The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

103X903520F0071220706

SGS Job Number: JD49400

Sampling Date: 08/02/22

Report to:

Tetra Tech
1560 Broadway Street Suite 1400
Denver, CO 80202
madison.ericson@tetratech.com; R8START.LabReports@tetratechinc.onmicrosoft.com

ATTN: Madison Ericson

Total number of pages in report: **1350**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Table of Contents

SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JD49400

R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Project No: 103X903520F0071220706

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD49400-1	08/02/22	15:50	ME	08/04/22	SO	Sludge	VDS-WS-01

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Tetra Tech	**Job No**	JD49400
Site:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT	**Report Date**	8/25/2022 5:12:41 PM

On 08/04/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD49400 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

GC Volatiles By Method SW846 8015D

Matrix: SO **Batch ID:** GLM4926

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD49719-1MS, JD49719-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8015D

Matrix: SO **Batch ID:** OP41170

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD49405-1MS, OP41170-MSMSD, JD49405-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for TPH-DRO (C10-C28) are outside control limits. Outside contorl limits biased low. BSD within acceptable criteria.
- RPD(s) for MSD for TPH-DRO (C10-C28) are outside control limits for sample OP41170-MSD. Analytical precision exceeds in-house control limits.
- JD49400-1 for 5a-Androstane: Outside control limits due to matrix interference.
- RPD of OP41170-BSD for TPH-DRO (C10-C28): Analytical precision exceeds in-house control limits.
- JD49400-1 for o-Terphenyl: Outside control limits due to matrix interference.
- JD49400-1 for 5a-Androstane: Outside control limits due to matrix interference.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO **Batch ID:** OP41180

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD49450-1MS, JD49450-1MSD, OP41180-MSMSD were used as the QC samples indicated.
- RPD(s) for MSD for Aroclor 1262 are outside control limits for sample OP41180-MSD. Outside contorl limits biased low. BSD within acceptable criteria.
- JD49400-1: Dilution required due to viscosity of the extract matrix.
- OP41180-MB1: Had TBA cleanup.

Metals Analysis By Method SW846 6020B

Matrix: SO	Batch ID: MP34484

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD49193-5MS, JD49193-5MSD, JD49193-5PS, JD49193-5SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Silver, Antimony, Vanadium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Chromium, Vanadium, Silver are outside control limits. pike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Aluminum, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Silver are outside control limits for sample MP34484-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Selenium, Sodium are outside control limits for sample MP34484-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP34484-SD1 for Silver, Beryllium, Vanadium: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7471B

Matrix: SO	Batch ID: MP34779

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD49740-1MS, JD49740-1MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO	Batch ID: GN32318

- Sample(s) JD49546-1DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9023

Matrix: SO	Batch ID: GP41687

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA47788-1MS, DA47788-1MSD were used as the QC samples for Total Organic Halides.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD49400
Account: Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Collected: 08/02/22

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD49400-1	**VDS-WS-01**					
TPH-GRO (C6-C10)		189	13	6.7	mg/kg	SW846 8015D
TPH-DRO (C10-C28)		9550	97	33	mg/kg	SW846 8015D
TPH-ORO (> C28-C40)		653	9.7	3.3	mg/kg	SW846 8015D
Aluminum		2660	26		mg/kg	SW846 6020B
Arsenic		8.0	0.26		mg/kg	SW846 6020B
Barium		26.4	0.53		mg/kg	SW846 6020B
Calcium		10300	530		mg/kg	SW846 6020B
Chromium		3.2	1.1		mg/kg	SW846 6020B
Cobalt		1.8	0.26		mg/kg	SW846 6020B
Copper		5.8	1.1		mg/kg	SW846 6020B
Iron		4150	26		mg/kg	SW846 6020B
Lead		3.6	0.26		mg/kg	SW846 6020B
Magnesium		3050	130		mg/kg	SW846 6020B
Manganese		74.7	2.1		mg/kg	SW846 6020B
Nickel		12.6	1.1		mg/kg	SW846 6020B
Potassium		328	130		mg/kg	SW846 6020B
Vanadium		26.1	1.1		mg/kg	SW846 6020B
Zinc		79.4	11		mg/kg	SW846 6020B

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	VDS-WS-01		
Lab Sample ID:	JD49400-1	**Date Sampled:**	08/02/22
Matrix:	SO - Sludge	**Date Received:**	08/04/22
Method:	SW846 8015D	**Percent Solids:**	93.5
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM118697.D	1	08/10/22 15:34	JN	n/a	n/a	GLM4926
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.4 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	189	13	6.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	90%		70-116%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	VDS-WS-01		
Lab Sample ID:	JD49400-1	**Date Sampled:**	08/02/22
Matrix:	SO - Sludge	**Date Received:**	08/04/22
Method:	SW846 8082A SW846 3546	**Percent Solids:**	93.5
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	RK14624.D	10	08/16/22 19:35	CL	08/10/22 16:00	OP41180	GRK359
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	350	160	ug/kg	
11104-28-2	Aroclor 1221	ND	350	220	ug/kg	
11141-16-5	Aroclor 1232	ND	350	220	ug/kg	
53469-21-9	Aroclor 1242	ND	350	140	ug/kg	
12672-29-6	Aroclor 1248	ND	350	310	ug/kg	
11097-69-1	Aroclor 1254	ND	350	190	ug/kg	
11096-82-5	Aroclor 1260	ND	350	150	ug/kg	
11100-14-4	Aroclor 1268	ND	350	150	ug/kg	
37324-23-5	Aroclor 1262	ND	350	230	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		10-163%
877-09-8	Tetrachloro-m-xylene	28%		10-163%
2051-24-3	Decachlorobiphenyl	74%		10-215%
2051-24-3	Decachlorobiphenyl	65%		10-215%

(a) Dilution required due to viscosity of the extract matrix.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	VDS-WS-01		
Lab Sample ID:	JD49400-1	**Date Sampled:**	08/02/22
Matrix:	SO - Sludge	**Date Received:**	08/04/22
Method:	SW846 8015D SW846 3546	**Percent Solids:**	93.5
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y109595.D	1	08/11/22 00:07	TL	08/09/22 16:48	OP41170	G2Y4272
Run #2	2Y109626.D	10	08/14/22 22:39	TL	08/09/22 16:48	OP41170	G2Y4273

	Initial Weight	Final Volume
Run #1	11.1 g	1.0 ml
Run #2	11.1 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	9550 [a]	97	33	mg/kg	
	TPH-ORO (> C28-C40)	653	9.7	3.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%	615% [b]	10-124%
438-22-2	5a-Androstane	425% [b]	131% [b]	15-129%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	VDS-WS-01		
Lab Sample ID:	JD49400-1	**Date Sampled:**	08/02/22
Matrix:	SO - Sludge	**Date Received:**	08/04/22
		Percent Solids:	93.5
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2660	26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Antimony	< 1.1	1.1	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Arsenic	8.0	0.26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Barium	26.4	0.53	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Beryllium	< 0.26	0.26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Cadmium	< 0.26	0.26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Calcium	10300	530	mg/kg	20	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Chromium	3.2	1.1	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Cobalt	1.8	0.26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Copper	5.8	1.1	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Iron	4150	26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Lead	3.6	0.26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Magnesium	3050	130	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Manganese	74.7	2.1	mg/kg	20	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Mercury	< 0.035	0.035	mg/kg	1	08/24/22	08/25/22	LM	SW846 7471B [4]	SW846 7471B [6]
Nickel	12.6	1.1	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Potassium	328	130	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Selenium	< 0.26	0.26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Silver	< 0.26	0.26	mg/kg	5	08/08/22	08/10/22	NV	SW846 6020B [2]	SW846 3050B [5]
Sodium	< 130	130	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Thallium	< 0.26	0.26	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Vanadium	26.1	1.1	mg/kg	5	08/08/22	08/09/22	NV	SW846 6020B [1]	SW846 3050B [5]
Zinc	79.4	11	mg/kg	10	08/08/22	08/11/22	NV	SW846 6020B [3]	SW846 3050B [5]

(1) Instrument QC Batch: MA52838
(2) Instrument QC Batch: MA52843
(3) Instrument QC Batch: MA52850
(4) Instrument QC Batch: MA52905
(5) Prep QC Batch: MP34484
(6) Prep QC Batch: MP34779

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	VDS-WS-01		
Lab Sample ID:	JD49400-1	**Date Sampled:**	08/02/22
Matrix:	SO - Sludge	**Date Received:**	08/04/22
		Percent Solids:	93.5
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.5		%	1	08/14/22 14:15	BG	SM2540 G 18TH ED MOD
Total Organic Halides	< 96	96	mg/kg	1	08/10/22 18:20	JOO	SW846 9023

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SL

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

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FED-EX Tracking #: 777545970489
Bottle Order Control #:
SGS Quote #:
SGS Job #: JD49400

Client / Reporting Information

Company Name: Tetra Tech
Street Address: 1560 Broadway, Suite 1400
City: Denver State: Colorado Zip: 80202
Project Contact: maura.mcaleese@tetratech.com E-mail:
Phone #: 303-312-8803
Sampler(s) Name(s): Madison Ericson (804) 357-6775 Phone #:

Project Information

Project Name: Valley Drive Abandoned Slurry
Street:
City: Kalispell State: MT
Project #: 103X903520F0071220706
Client Purchase Order #:
Project Manager: Madison Ericson

Billing Information (if different from Report to)

Company Name: Tetra Tech
Street Address: 1560 Broadway, Suite 1400
City: Denver State: CO Zip: 80202
Attention: Maura McAleese (maura.mcaleese@tetratech.com)

Requested Analysis

TPH- DRO, GRO, ORO (8015C)
TAL Metals incl. Mercury (6010/6020 & 7471B)
PCB (8082A)
Total Halides (9023)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Obtained (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	TPH- DRO, GRO, ORO (8015C)	TAL Metals incl. Mercury (6010/6020 & 7471B)	PCB (8082A)	Total Halides (9023)	LAB USE ONLY
1	VDS-WS-01		8/2/22	1550	M.E.	G	N	SL	4					4					X	X	X	X	D30

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

Initial Assessment N/A 12A
Label Verification

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [X] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [X] EDO Format: SCRIBE-START Region 8
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Please also send invoice and EDD to:
R8START LabReports@tetratechinc.onmicrosoft.com
madison.ericson@tetratech.com
PLEASE RETURN COOLER AS SOON AS IT IS EMPTY;
RETURN SHIPPING LABEL INCLUDED

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	8/3/22 1200	1 Fedex	2 Fedex	08/04/22	2 10:14
Relinquished by: 3	Date / Time:	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4 C.1
Relinquished by:	Date / Time:	Received By: 5	Custody Seal #	Intact	Time / ID / On Ice / Cooler Temp. °C

JD49400: Chain of Custody
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SL

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

FED-EX Tracking # 777545970489
Bottle Order Control #
SGS Quote #
SGS Job # JD49400

Client / Reporting Information

Company Name: Tetra Tech
Street Address: 1560 Broadway, Suite 1400
City: Denver State: Colorado Zip: 80202
Project Contact: maura.mcaleese@tetratech.com E-mail:
Phone #: 303-312-8803
Sampler(s) Name(s): Madison Ericson (804) 357-6775 Phone #:

Project Information

Project Name: Valley Drive Abandoned Slurry
Street:
City: Kalispell State: MT
Project #: 103X903520F0071220706
Client Purchase Order #:
Project Manager: Madison Ericson

Billing Information (if different from Report to)

Company Name: Tetra Tech
Street Address: 1560 Broadway, Suite 1400
City: Denver State: CO Zip: 80202
Attention: Maura McAleese (maura.mcaleese@tetratech.com)

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	TPH- DRO, GRO, ORO (8015C)	TAL Metals incl. Mercury (6010/6020 & 7471B)	PCB (8082A)	Total Halides (9023)	pH Check (Lab Use Only)	LAB USE ONLY
1	VDS-WS-01		8/2/22	1550	M.E.	G	N	SL	4					4				X	X	X	X		D30

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

Initial Assessment N/A 12A
Label Verification

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [X] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [X] EDD Format: SCRIBE-START Region 8
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Please also send invoice and EDD to:
RBSTART.LabReports@tetratechinc.onmicrosoft.com
madison.ericson@tetratech.com
PLEASE RETURN COOLER AS SOON AS IT IS EMPTY;
RETURN SHIPPING LABEL INCLUDED

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	8/3/22 1200	1 Fedex	2 FedEx	08/04/22	2 10:14
Relinquished by: 3	Date / Time:	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4 C.1
Relinquished by: 5	Date / Time:	Received By: 6	Custody Seal #	Intact	Therm ID / Cooler Temp. °C

5.1 5

SGS Sample Receipt Summary

Job Number: JD49400 **Client:** TETRA TECH **Project:** VALLEY DRIVE ABANDONED SLURRY

Date / Time Received: 8/4/2022 10:14:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD49400: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JD49400

R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Project No: 103X903520F0071220706

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD49400-1 VDS-WS-01	Collected: 02-AUG-22 15:50 By: ME		Received: 04-AUG-22 By: JR			
JD49400-1	SW846 6020B	09-AUG-22 13:38	NV	08-AUG-22	SF	ALMS,ASMS,BAMS,BEMS,CDMS, COMS,CRMS,CUMS,FEMS,KMS, MGMS,NAMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS
JD49400-1	SW846 6020B	09-AUG-22 14:35	NV	08-AUG-22	SF	CAMS,MNMS
JD49400-1	SW846 8015D	10-AUG-22 15:34	JN			V8015GRO
JD49400-1	SW846 9023	10-AUG-22 18:20	JOO	09-AUG-22	JOO	TOX
JD49400-1	SW846 6020B	10-AUG-22 20:11	NV	08-AUG-22	SF	AGMS
JD49400-1	SW846 8015D	11-AUG-22 00:07	TL	09-AUG-22	CB	BGC+ORO
JD49400-1	SW846 6020B	11-AUG-22 16:13	NV	08-AUG-22	SF	ZNMS
JD49400-1	SM2540 G 18TH ED MOD	14-AUG-22 14:15	BG			SOL104
JD49400-1	SW846 8015D	14-AUG-22 22:39	TL	09-AUG-22	CB	B8015DRO
JD49400-1	SW846 8082A	16-AUG-22 19:35	CL	10-AUG-22	ED	P8082PCB11
JD49400-1	SW846 7471B	25-AUG-22 13:30	LM	24-AUG-22	LM	HG

SGS Internal Chain of Custody

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Received: 08/04/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD49400-1.1	Rania Salters	Secured Storage	08/04/22 20:38	Return to Storage
JD49400-1.1	Secured Storage	Benjamin Gaines	08/07/22 11:14	Retrieve from Storage
JD49400-1.1	Benjamin Gaines	Secured Staging Area	08/07/22 11:14	Return to Storage
JD49400-1.1	Secured Staging Area	Sarah Fichot	08/08/22 07:46	Retrieve from Storage
JD49400-1.1	Sarah Fichot	Secured Storage	08/08/22 12:17	Return to Storage
JD49400-1.1	Christian King	Secured Staging Area	08/09/22 21:52	Return to Storage
stage				
JD49400-1.1	Secured Staging Area	Ellen Dondeo	08/10/22 07:05	Retrieve from Storage
JD49400-1.1	Ellen Dondeo	Secured Storage	08/11/22 06:09	Return to Storage
JD49400-1.1	Secured Storage	Dave Hunkele	08/23/22 06:54	Retrieve from Storage
JD49400-1.1	Dave Hunkele	Secured Staging Area	08/23/22 06:54	Return to Storage
JD49400-1.1	Secured Staging Area	Lauren Matthews	08/24/22 10:17	Retrieve from Storage
JD49400-1.1	Lauren Matthews	Secured Storage	08/24/22 18:09	Return to Storage
JD49400-1.1.1	Sarah Fichot	Metals Digestion	08/08/22 12:09	Digestate from JD49400-1.1
JD49400-1.1.1	Metals Digestion	Sarah Fichot	08/08/22 12:11	Digestate from JD49400-1.1
JD49400-1.1.1	Sarah Fichot	Metals Digestate Storage	08/08/22 12:11	Return to Storage
JD49400-1.1.2	Ellen Dondeo	Organics Prep	08/10/22 07:28	Extract from JD49400-1.1
JD49400-1.1.2	Organics Prep	Ellen Dondeo	08/11/22 16:07	Extract from JD49400-1.1
JD49400-1.1.2	Ellen Dondeo	Extract Storage	08/11/22 16:07	Return to Storage
JD49400-1.1.2	Extract Storage	Tilak Patel	08/11/22 20:52	Retrieve from Storage
JD49400-1.1.2	Tilak Patel	GCRK	08/11/22 20:52	Load on Instrument
JD49400-1.1.2	GCRK	Rebecca Krug	08/25/22 20:57	Unload from Instrument
JD49400-1.1.2	Rebecca Krug	Extract Freezer	08/25/22 20:58	Return to Storage
JD49400-1.2	Rania Salters	Secured Storage	08/04/22 20:38	Return to Storage
JD49400-1.3	Rania Salters	Secured Storage	08/04/22 20:38	Return to Storage
JD49400-1.3	Secured Storage	Dave Hunkele	08/09/22 09:15	Retrieve from Storage
JD49400-1.3	Dave Hunkele	Secured Staging Area	08/09/22 09:15	Return to Storage
JD49400-1.3	Secured Staging Area	Jared O. Onindo	08/09/22 09:25	Retrieve from Storage
JD49400-1.3	Jared O. Onindo	Secured Storage	08/09/22 18:35	Return to Storage
JD49400-1.3	Secured Storage	Jayna Patel	08/10/22 07:50	Retrieve from Storage
JD49400-1.3	Jayna Patel	Secured Storage	08/10/22 08:59	Return to Storage
JD49400-1.4	Rania Salters	Secured Storage	08/04/22 20:38	Return to Storage
JD49400-1.4	Secured Storage	Dave Hunkele	08/09/22 06:46	Retrieve from Storage
JD49400-1.4	Dave Hunkele	Secured Staging Area	08/09/22 06:47	Return to Storage
JD49400-1.4	Secured Staging Area	Ellen Dondeo	08/09/22 07:36	Retrieve from Storage
JD49400-1.4	Ellen Dondeo	Secured Storage	08/09/22 16:57	Return to Storage
JD49400-1.4.1	Ellen Dondeo	Organics Prep	08/09/22 08:39	Extract from JD49400-1.4
JD49400-1.4.1	Organics Prep	Claudia Baydar	08/10/22 13:54	Extract from JD49400-1.4

SGS Internal Chain of Custody

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Received: 08/04/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD49400-1.4.1	Claudia Baydar	Extract Storage	08/10/22 13:54	Return to Storage
JD49400-1.4.1	Extract Storage	Tilak Patel	08/10/22 18:18	Retrieve from Storage
JD49400-1.4.1	Tilak Patel	GC2Z	08/10/22 18:19	Load on Instrument
JD49400-1.5	Secured Storage	Mina Jony	08/10/22 12:59	Retrieve from Storage
JD49400-1.5	Mina Jony	GCLM	08/10/22 12:59	Load on Instrument

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLM4926-MB	LM118691.D	1	08/10/22	JN	n/a	n/a	GLM4926

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49400-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
98-08-8	aaa-Trifluorotoluene	91%	70-116%

Method Blank Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLM4926-MB2	LM118701.D	1	08/10/22	JN	n/a	n/a	GLM4926

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49719-1MS, JD49719-1MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
98-08-8	aaa-Trifluorotoluene	90%	70-116%

Blank Spike Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLM4926-BS	LM118692.D	1	08/10/22	JN	n/a	n/a	GLM4926

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49400-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	400	350	88	75-126

CAS No.	Surrogate Recoveries	BSP	Limits
98-08-8	aaa-Trifluorotoluene	103%	70-116%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD49719-1MS	LM118704.D	1	08/10/22	JN	n/a	n/a	GLM4926
JD49719-1MSD	LM118705.D	1	08/10/22	JN	n/a	n/a	GLM4926
JD49719-1	LM118695.D	1	08/10/22	JN	n/a	n/a	GLM4926

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49400-1

CAS No.	Compound	JD49719-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		884	915	103	884	903	102	1	68-128/11

CAS No.	Surrogate Recoveries	MS	MSD	JD49719-1	Limits
98-08-8	aaa-Trifluorotoluene	106%	106%	93%	70-116%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Method: SW846 8015D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD49400-1	LM118697.D	90
GLM4926-BS	LM118692.D	103
GLM4926-MB	LM118691.D	91
JD49719-1MS	LM118704.D	106
JD49719-1MSD	LM118705.D	106
GLM4926-MB2	LM118701.D	90

Surrogate Compounds	Recovery Limits
S1 = aaa-Trifluorotoluene	70-116%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GLM4925-CC4909	**Injection Date:**	08/09/22
Lab File ID:	LM118685.D	**Injection Time:**	21:20
Instrument ID:	GCLM	**Method:**	SW846 8015D

	S1 [a] **RT**
Check Std	10.76

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GLM4926-RT	LM118688.D	08/10/22	11:02	10.77

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GLM4926-CC4909	**Injection Date:**	08/10/22
Lab File ID:	LM118689.D	**Injection Time:**	11:27
Instrument ID:	GCLM	**Method:**	SW846 8015D

	S1 [a] **RT**
Check Std	10.76

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GLM4926-MB	LM118691.D	08/10/22	12:43	10.76
GLM4926-BS	LM118692.D	08/10/22	13:08	10.76
ZZZZZZ	LM118694.D	08/10/22	14:17	10.76
JD49719-1	LM118695.D	08/10/22	14:43	10.76
ZZZZZZ	LM118696.D	08/10/22	15:08	10.76
JD49400-1	LM118697.D	08/10/22	15:34	10.76

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GLM4926-CC4909	**Injection Date:**	08/10/22
Lab File ID:	LM118699.D	**Injection Time:**	16:25
Instrument ID:	GCLM	**Method:**	SW846 8015D

	S1 [a] **RT**
Check Std	10.76

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GLM4926-MB2	LM118701.D	08/10/22	17:29	10.76
ZZZZZZ	LM118702.D	08/10/22	17:55	10.76
ZZZZZZ	LM118703.D	08/10/22	18:21	10.76
JD49719-1MS	LM118704.D	08/10/22	18:46	10.76
JD49719-1MSD	LM118705.D	08/10/22	19:12	10.76

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JD49400 **Sample:** GLM4909-ICC4909
Account: TTCOD Tetra Tech **Lab FileID:** LM118164.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Response Factor Report GCLM

Method : C:\msdchem\1\METHODS\MLM4909.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO) .
Last Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration

Calibration Files
0.2 =LM118161.D 0.8 =LM118162.D 4 =LM118163.D 8 =LM118164.D
20 =LM118165.D 40 =LM118167.D 30 =LM118166.D

Compound	0.2	0.8	4	8	20	40	30	Avg	%RSD
1)H TPH-GRO (C6-C10)	1.333	1.127	1.074	1.057	1.048	0.836	1.000	1.068 E6	13.93
2)H TPH-GRO (C6-C12)	1.244	1.057	1.010	0.996	0.994	0.775	0.944	1.003 E6	13.90
3)S a,a,a-Trifluoroto	1.273	1.209	1.299	1.353	1.513	1.405	1.555	1.372 E6	9.25

(#) = Out of Range

MLM4909.M Sat Jul 16 10:53:21 2022

Initial Calibration Verification

Job Number: JD49400 **Sample:** GLM4909-ICV4909
Account: TTCOD Tetra Tech **Lab FileID:** LM118171.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\GLM4909\LM118171.D        Vial: 15
Acq On    : 16 Jul 2022   1:01 am                   Operator: johnn
Sample    : icv4909-8000                            Inst    : GCLM
Misc      : GC59883,GLM4909,5,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Method       : C:\MSDCHEM\1\METHODS\MLM4909.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO) .
Last Update  : Sat Jul 16 10:22:40 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 H	TPH-GRO (C6-C10)	1.068	0.885 E6	17.1	84	0.00	11.82
2 H	TPH-GRO (C6-C12)	1.003	0.841 E6	16.2	84	0.00	11.82
3 S	a,a,a-Trifluorotoluene	1.372	1.270 E6	7.4	94	0.00	10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LM118164.D MLM4909.M Sat Jul 16 12:21:09 2022

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GLM4925-CC4909
Account: TTCOD Tetra Tech **Lab FileID:** LM118685.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\GLM4925\LM118685.D        Vial: 24
Acq On    : 09 Aug 2022   9:20 pm                   Operator: johnn
Sample    : cc4909-4000                             Inst    : GCLM
Misc      : GC60041,GLM4925,5,,100,5,1              Multiplr: 1.00
IntFile   : AUTOINT1.E

Method       : C:\MSDCHEM\1\METHODS\MLM4909.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO) .
Last Update  : Sat Jul 16 10:22:40 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 H	TPH-GRO (C6-C10)	1.068	1.083 E6	-1.4	101	0.00	11.82
2 H	TPH-GRO (C6-C12)	1.003	1.023 E6	-2.0	101	0.00	11.82
3 S	a,a,a-Trifluorotoluene	1.372	1.377 E6	-0.4	106	0.00	10.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LM118163.D MLM4909.M Wed Aug 10 11:19:53 2022

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GLM4926-CC4909
Account: TTCOD Tetra Tech **Lab FileID:** LM118689.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\GLM4926\LM118689.D        Vial: 4
Acq On    : 10 Aug 2022  11:27 am                   Operator: johnn
Sample    : cc4909-8000                             Inst    : GCLM
Misc      : GC60041,GLM4926,5,,100,5,1              Multiplr: 1.00
IntFile   : AUTOINT1.E

Method       : C:\MSDCHEM\1\METHODS\MLM4909.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO) .
Last Update  : Sat Jul 16 10:22:40 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 H	TPH-GRO (C6-C10)	1.068	1.103 E6	-3.3	104	0.00	11.82
2 H	TPH-GRO (C6-C12)	1.003	1.033 E6	-3.0	104	0.00	11.82
3 S	a,a,a-Trifluorotoluene	1.372	1.453 E6	-5.9	107	0.00	10.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LM118164.D MLM4909.M Thu Aug 11 14:53:45 2022

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GLM4926-CC4909
Account: TTCOD Tetra Tech **Lab FileID:** LM118699.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\GLM4926\LM118699.D        Vial: 14
Acq On    : 10 Aug 2022   4:25 pm                   Operator: minaj
Sample    : cc4909-4000                             Inst    : GCLM
Misc      : GC60058,GLM4926,5,,100,5,1              Multiplr: 1.00
IntFile   : AUTOINT1.E

Method       : C:\MSDCHEM\1\METHODS\MLM4909.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO) .
Last Update  : Sat Jul 16 10:22:40 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 H	TPH-GRO (C6-C10)	1.068	1.058 E6	0.9	99	0.00	11.82
2 H	TPH-GRO (C6-C12)	1.003	0.988 E6	1.5	98	0.00	11.82
3 S	a,a,a-Trifluorotoluene	1.372	1.371 E6	0.1	106	0.00	10.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LM118163.D MLM4909.M Thu Aug 11 14:53:22 2022

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GLM4926-CC4909
Account: TTCOD Tetra Tech **Lab FileID:** LM118706.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\GLM4926\LM118706.D         Vial: 21
Acq On    : 10 Aug 2022   7:38 pm                    Operator: minaj
Sample    : cc4909-8000                              Inst    : GCLM
Misc      : GC60073,GLM4926,5,,100,5,1               Multiplr: 1.00
IntFile   : AUTOINT1.E

Method       : C:\MSDCHEM\1\METHODS\MLM4909.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO) .
Last Update  : Sat Jul 16 10:22:40 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 H	TPH-GRO (C6-C10)	1.068	1.082 E6	-1.3	102	0.00	11.82
2 H	TPH-GRO (C6-C12)	1.003	1.015 E6	-1.2	102	0.00	11.82
3 S	a,a,a-Trifluorotoluene	1.372	1.478 E6	-7.7	109	0.00	10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LM118164.D MLM4909.M Thu Aug 11 14:53:47 2022

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GLM4909 **Method:** SW846 8015D **Instrument ID:** GCLM

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLM4909-RT	LM118159.D	07/15/22 19:54	n/a	Retention Time Marker
GLM4909-IC4909	LM118161.D	07/15/22 20:45	n/a	Initial cal 200
GLM4909-IC4909	LM118162.D	07/15/22 21:10	n/a	Initial cal 800
GLM4909-IC4909	LM118163.D	07/15/22 21:36	n/a	Initial cal 4000
GLM4909-ICC4909	LM118164.D	07/15/22 22:02	n/a	Initial cal 8000
GLM4909-IC4909	LM118165.D	07/15/22 22:27	n/a	Initial cal 20000
GLM4909-IC4909	LM118166.D	07/15/22 22:53	n/a	Initial cal 30000
GLM4909-IC4909	LM118167.D	07/15/22 23:19	n/a	Initial cal 40000
GLM4909-ICV4909	LM118171.D	07/16/22 01:01	n/a	Initial cal verification 8000

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GLM4925 **Method:** SW846 8015D **Instrument ID:** GCLM

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLM4925-RT	LM118664.D	08/09/22 10:15	n/a	Retention Time Marker
GLM4925-CC4909	LM118665.D	08/09/22 10:41	n/a	Continuing cal 4000
GLM4925-MB	LM118667.D	08/09/22 11:42	n/a	Method Blank
GLM4925-BS	LM118668.D	08/09/22 12:08	n/a	Blank Spike
GLM4925-BSD	LM118669.D	08/09/22 14:29	n/a	Blank Spike Duplicate
ZZZZZZ	LM118671.D	08/09/22 15:23	n/a	(unrelated sample)
JD49321-3	LM118673.D	08/09/22 16:14	n/a	(used for QC only; not part of job JD49400)
JD49321-3DUP	LM118674.D	08/09/22 16:39	n/a	Duplicate
GLM4925-CC4909	LM118675.D	08/09/22 17:05	n/a	Continuing cal 8000
GLM4925-MB2	LM118677.D	08/09/22 17:56	n/a	Method Blank
JD49450-8	LM118678.D	08/09/22 18:21	n/a	(used for QC only; not part of job JD49400)
ZZZZZZ	LM118679.D	08/09/22 18:46	n/a	(unrelated sample)
ZZZZZZ	LM118680.D	08/09/22 19:12	n/a	(unrelated sample)
ZZZZZZ	LM118681.D	08/09/22 19:38	n/a	(unrelated sample)
JD49450-8MS	LM118682.D	08/09/22 20:03	n/a	Matrix Spike
ZZZZZZ	LM118683.D	08/09/22 20:29	n/a	(unrelated sample)
GLM4925-CC4909	LM118685.D	08/09/22 21:20	n/a	Continuing cal 4000

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GLM4926 **Method:** SW846 8015D **Instrument ID:** GCLM

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLM4926-RT	LM118688.D	08/10/22 11:02	n/a	Retention Time Marker
GLM4926-CC4909	LM118689.D	08/10/22 11:27	n/a	Continuing cal 8000
GLM4926-MB	LM118691.D	08/10/22 12:43	n/a	Method Blank
GLM4926-BS	LM118692.D	08/10/22 13:08	n/a	Blank Spike
ZZZZZZ	LM118694.D	08/10/22 14:17	n/a	(unrelated sample)
JD49719-1	LM118695.D	08/10/22 14:43	n/a	(used for QC only; not part of job JD49400)
ZZZZZZ	LM118696.D	08/10/22 15:08	n/a	(unrelated sample)
JD49400-1	LM118697.D	08/10/22 15:34	n/a	VDS-WS-01
GLM4926-CC4909	LM118699.D	08/10/22 16:25	n/a	Continuing cal 4000
GLM4926-MB2	LM118701.D	08/10/22 17:29	n/a	Method Blank
ZZZZZZ	LM118702.D	08/10/22 17:55	n/a	(unrelated sample)
ZZZZZZ	LM118703.D	08/10/22 18:21	n/a	(unrelated sample)
JD49719-1MS	LM118704.D	08/10/22 18:46	n/a	Matrix Spike
JD49719-1MSD	LM118705.D	08/10/22 19:12	n/a	Matrix Spike Duplicate
GLM4926-CC4909	LM118706.D	08/10/22 19:38	n/a	Continuing cal 8000

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118697.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:34 pm
Operator : minaj
Sample : jd49400-1
Misc : GC60058,GLM4926,8.43,,100,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 15:52:12 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.763	371961449	271.044 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery =	90.35%
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	3009616349	2818.768 ug/l
2) H TPH-GRO (C6-C12)	11.820	4483801012	4470.624 ug/l

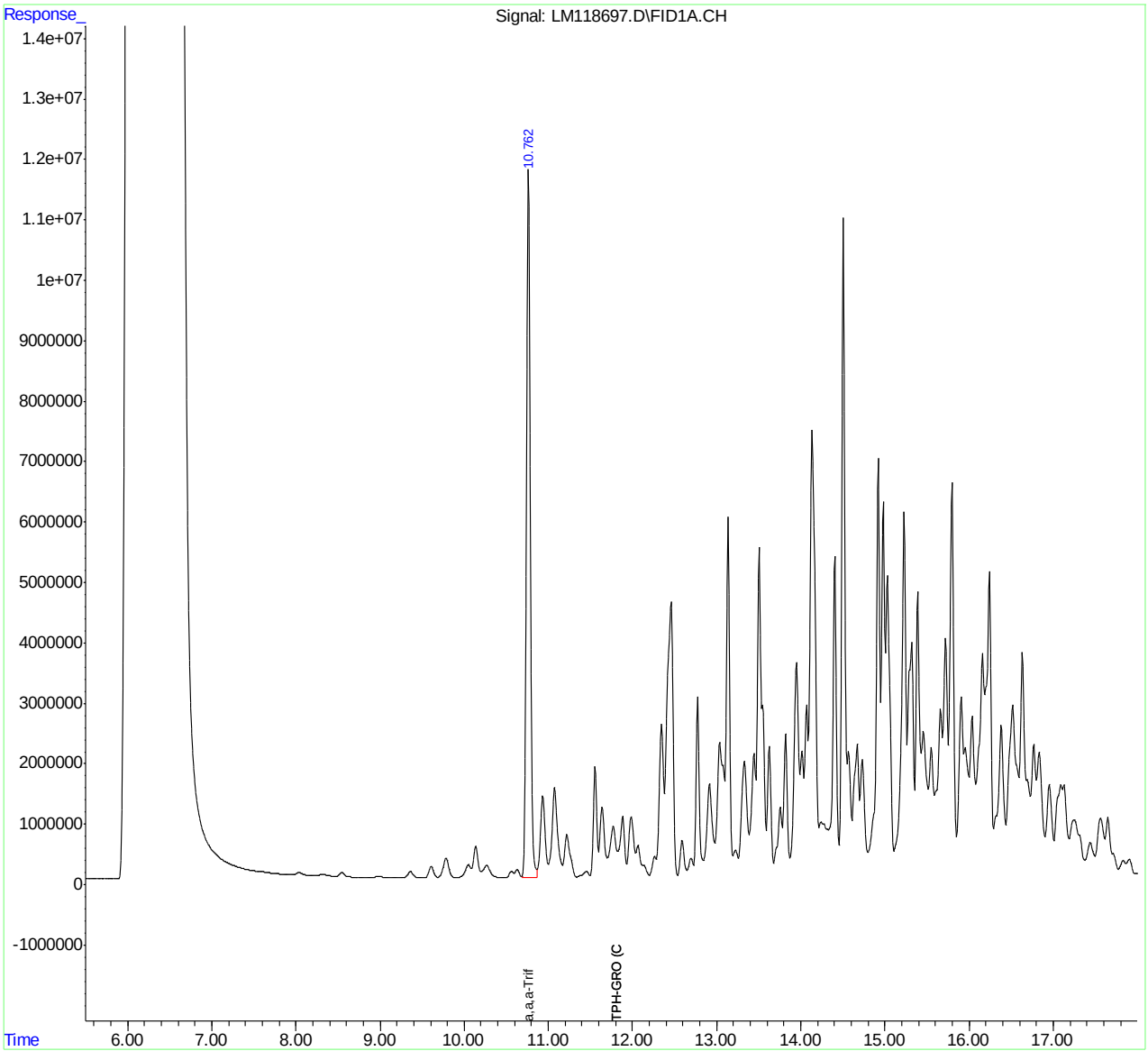
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

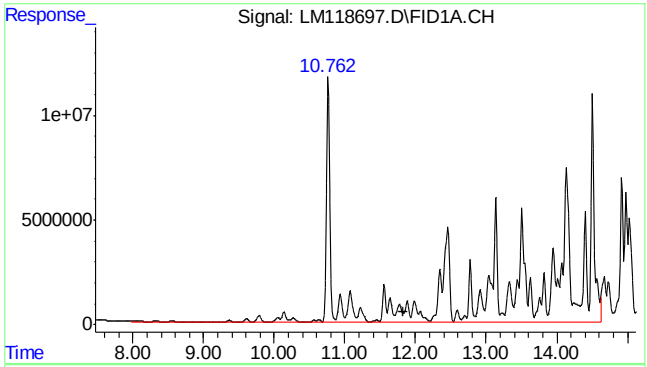
Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118697.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:34 pm
Operator : minaj
Sample : jd49400-1
Misc : GC60058,GLM4926,8.43,,100,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 15:52:12 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

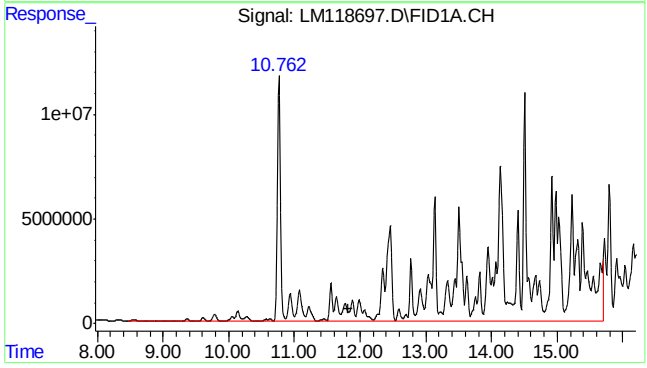


MLM4909.M Thu Aug 11 14:51:05 2022 Page: 2



#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 3009616349
Conc: 2818.77 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 4483801012
Conc: 4470.62 ug/l m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118691.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 12:43 pm
Operator : minaj
Sample : mb
Misc : GC60055,GLM4926,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 11 14:49:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.763	375278084	273.461 ug/l

Spiked Amount 300.000 Range 70 - 116 Recovery = 91.15%

Target Compounds

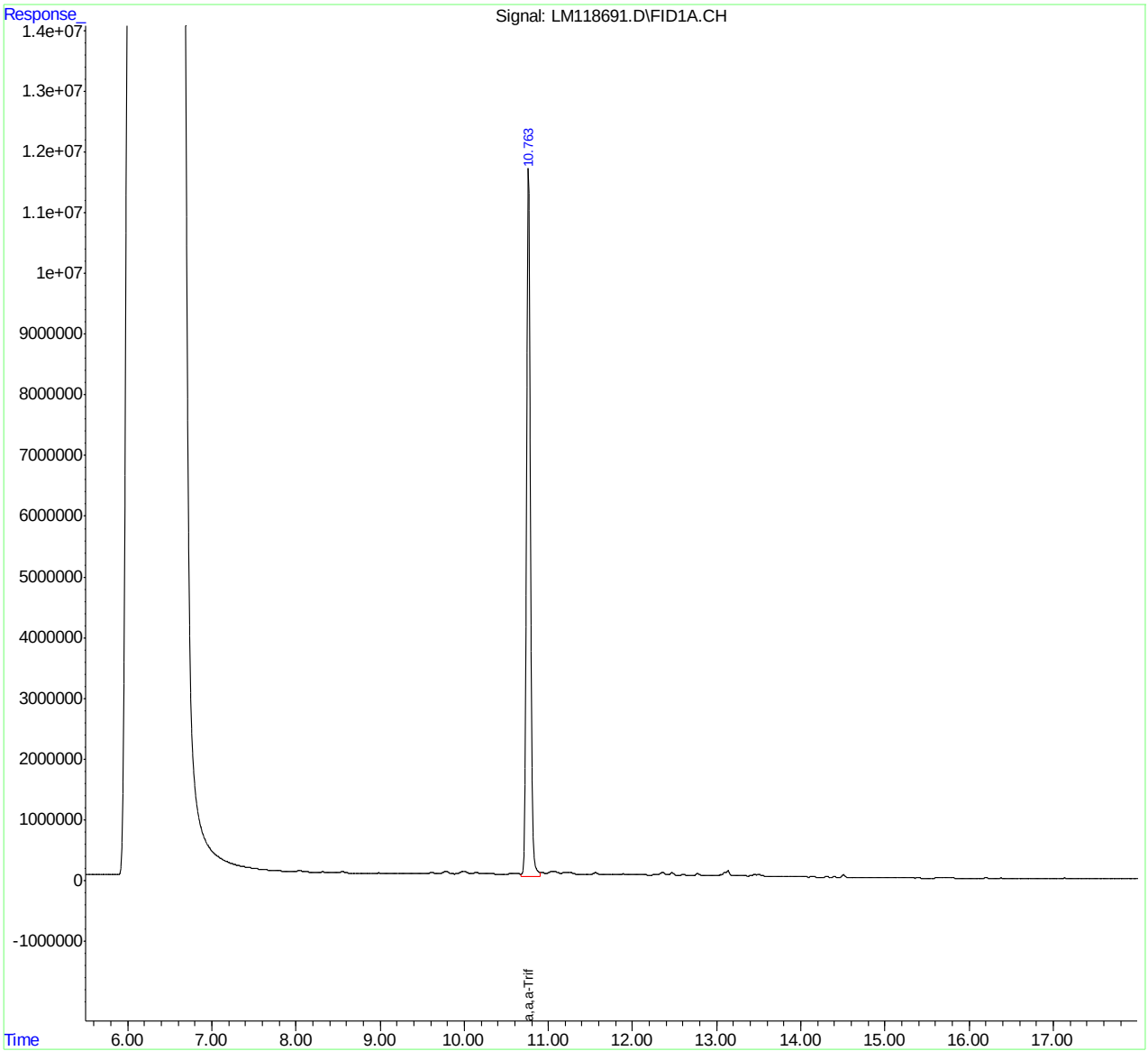
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118691.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 12:43 pm
Operator : minaj
Sample : mb
Misc : GC60055,GLM4926,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 11 14:49:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um



MLM4909.M Thu Aug 11 14:49:56 2022 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118701.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 5:29 pm
Operator : minaj
Sample : mb2
Misc : GC60073,GLM4926,5,,100,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 11 14:51:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.764	369773947	269.450 ug/l

Spiked Amount 300.000 Range 70 - 116 Recovery = 89.82%

Target Compounds

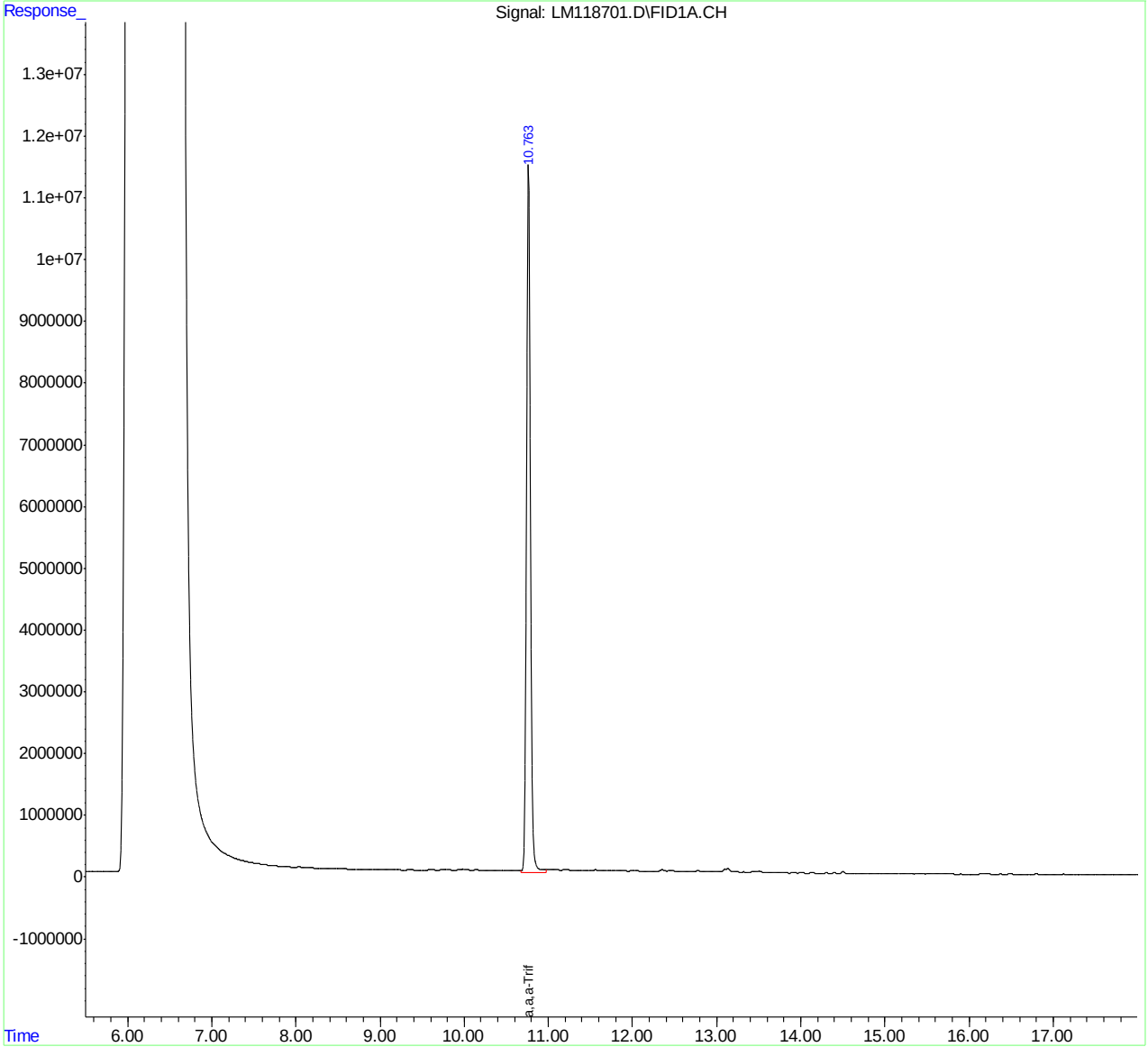
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118701.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 5:29 pm
Operator : minaj
Sample : mb2
Misc : GC60073,GLM4926,5,,100,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 11 14:51:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um



MLM4909.M Thu Aug 11 14:51:35 2022 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118692.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 1:08 pm
Operator : minaj
Sample : bs
Misc : GC60055,GLM4926,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 13:26:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.764	423329665	308.476 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 102.83%	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	7471605967	6997.811 ug/l
2) H TPH-GRO (C6-C12)	11.820	7164117797	7143.065 ug/l

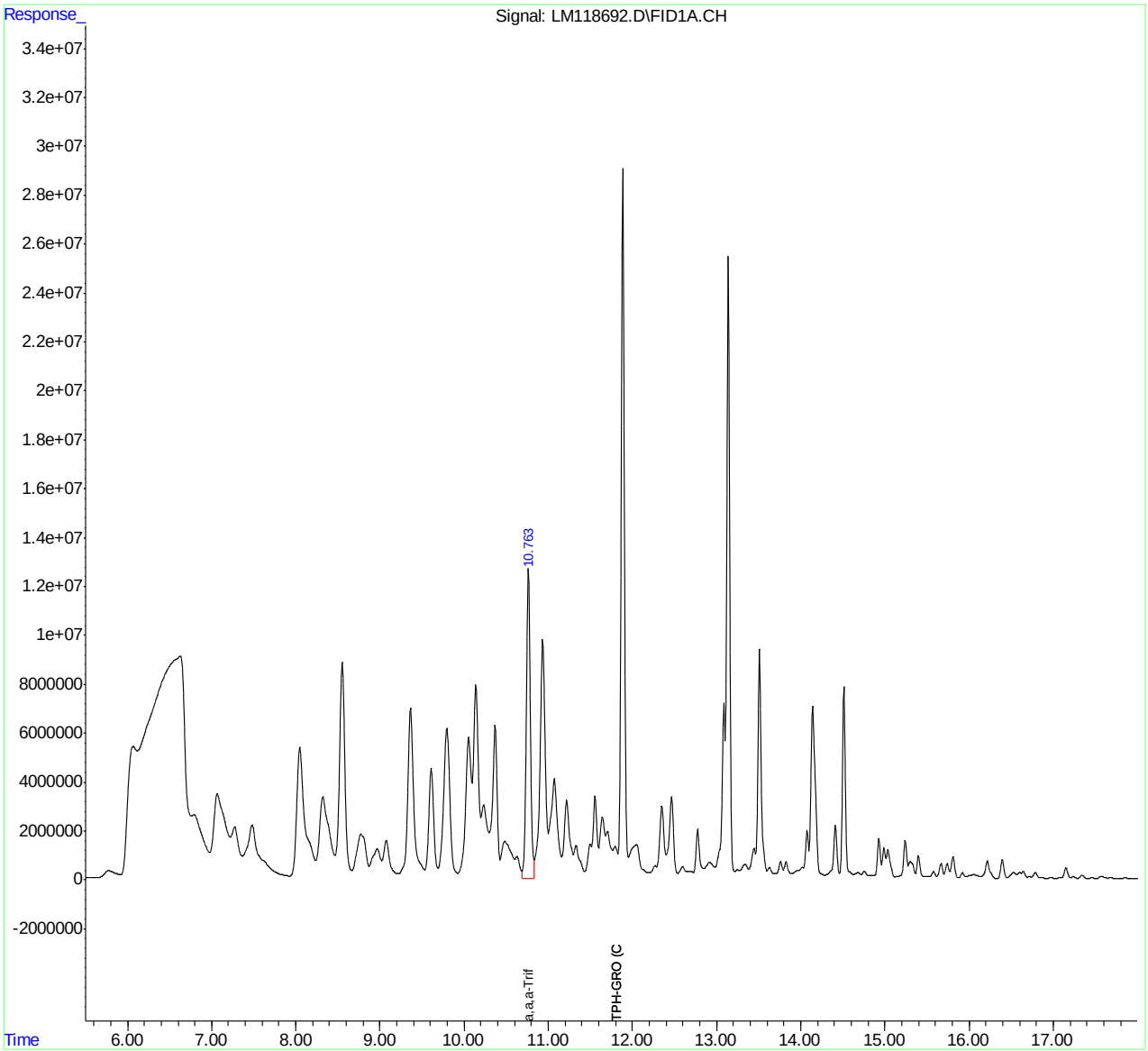
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118692.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 1:08 pm
Operator : minaj
Sample : bs
Misc : GC60055,GLM4926,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 13:26:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um



MLM4909.M Thu Aug 11 14:50:07 2022 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118704.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:46 pm
Operator : minaj
Sample : jd49719-1ms
Misc : GC60073,GLM4926,5.47,,100,10,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 19:04:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.763	434392601	316.537 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 105.51%	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	8844712227	8283.845 ug/l
2) H TPH-GRO (C6-C12)	11.820	8303994041	8279.591 ug/l

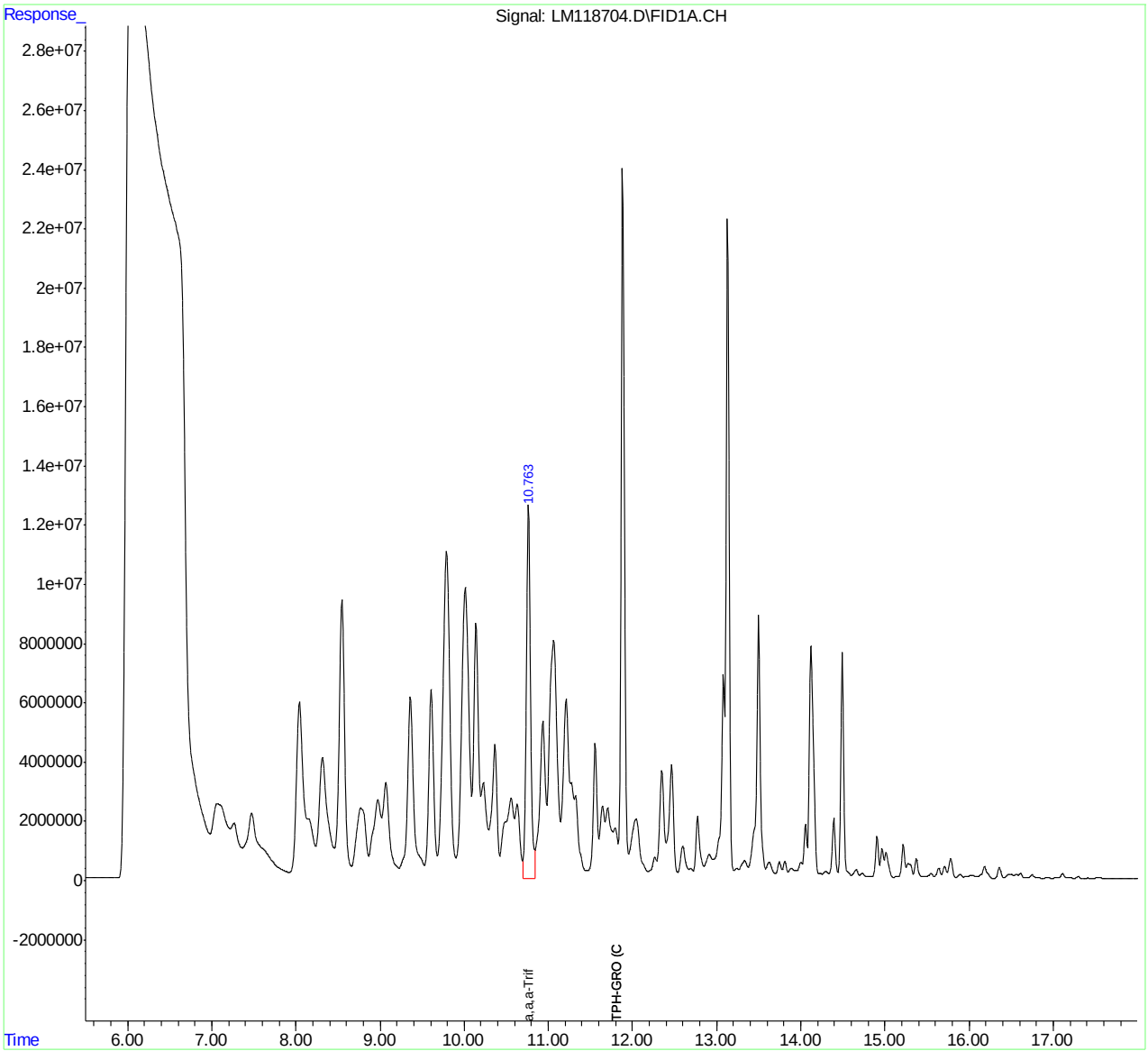
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

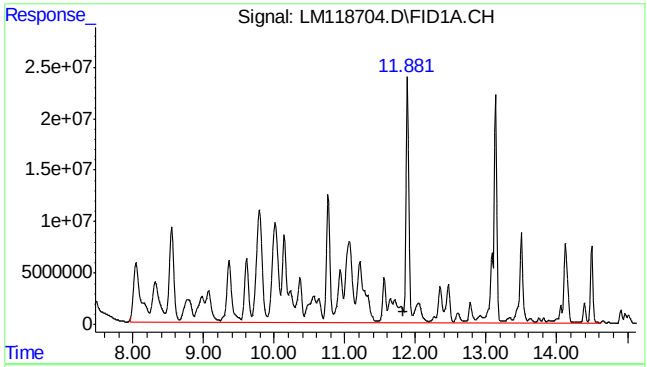
Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118704.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:46 pm
Operator : minaj
Sample : jd49719-1ms
Misc : GC60073,GLM4926,5.47,,100,10,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 19:04:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

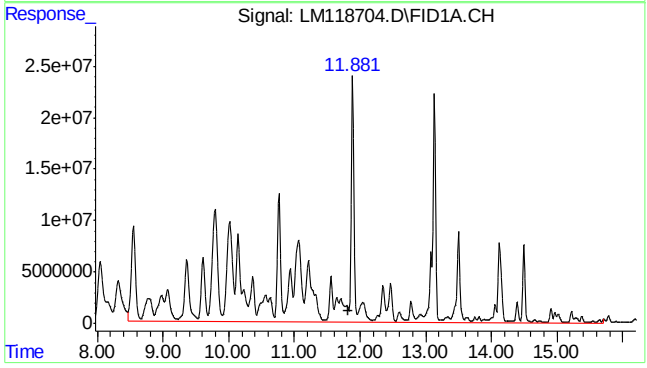


MLM4909.M Thu Aug 11 14:52:22 2022 Page: 2



#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 8844712227
Conc: 8283.84 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 8303994041
Conc: 8279.59 ug/l m

7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118705.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 7:12 pm
Operator : minaj
Sample : jd49719-1msd
Misc : GC60073,GLM4926,5.47,,100,10,1
ALS Vial : 20 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 19:30:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.763	435138535	317.081 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 105.69%	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	8721571399	8168.513 ug/l
2) H TPH-GRO (C6-C12)	11.820	8185373807	8161.319 ug/l

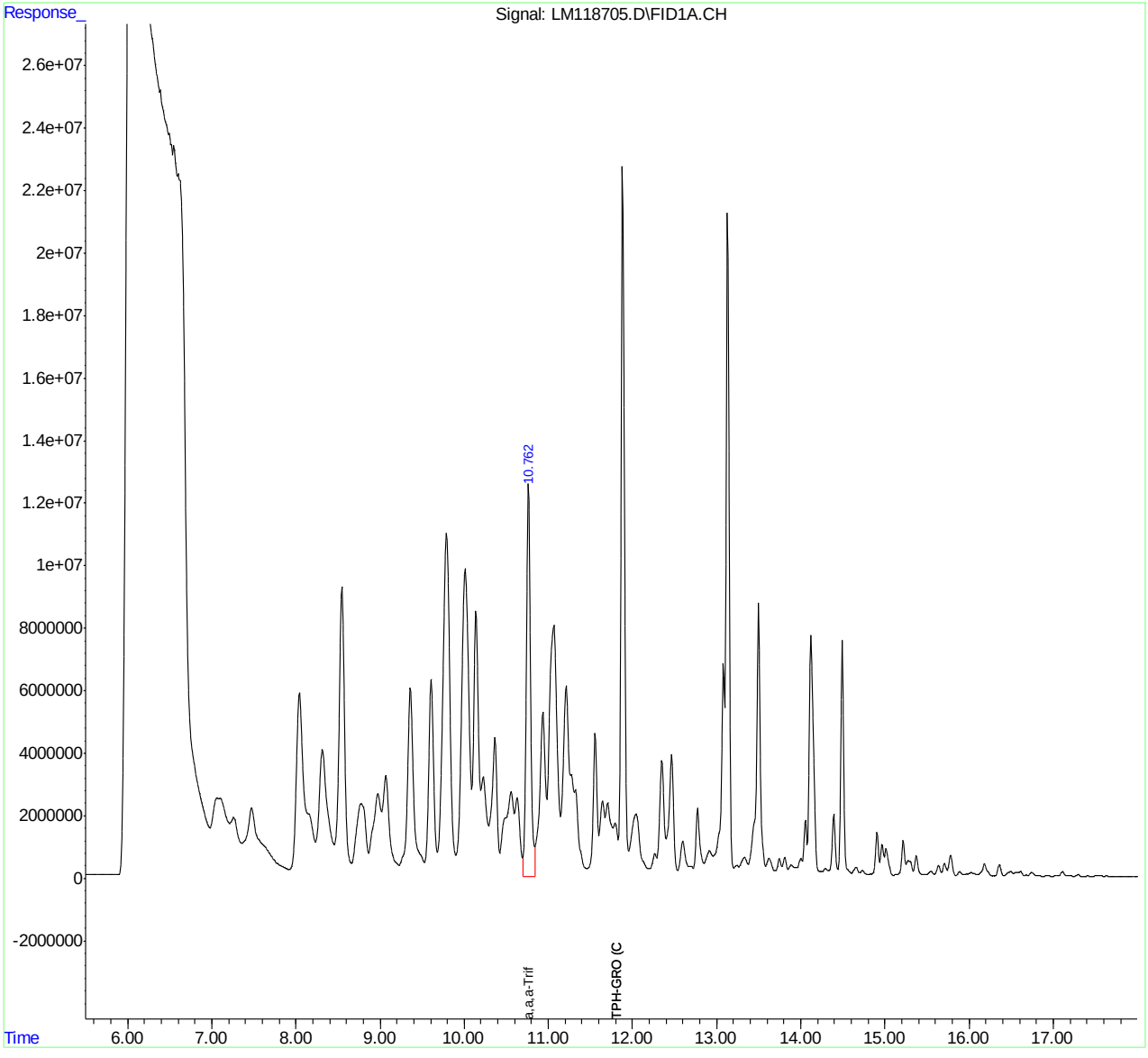
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

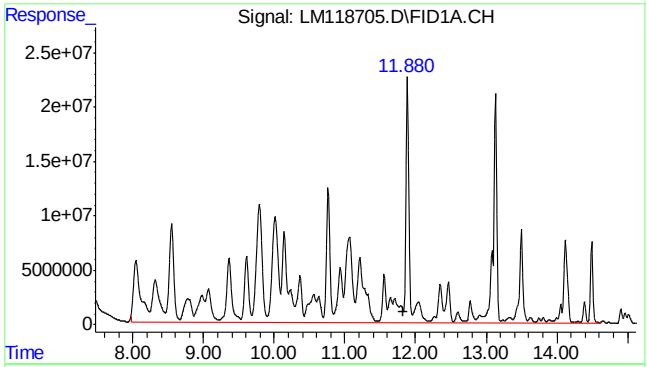
Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118705.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 7:12 pm
Operator : minaj
Sample : jd49719-1msd
Misc : GC60073,GLM4926,5.47,,100,10,1
ALS Vial : 20 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 19:30:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

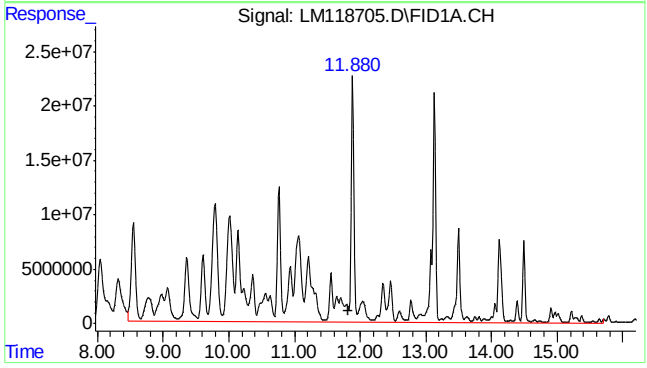


MLM4909.M Thu Aug 11 14:52:41 2022 Page: 2



#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 8721571399
Conc: 8168.51 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 8185373807
Conc: 8161.32 ug/l m

7.4.2

7

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118159.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 7:54 pm
Operator : johnn
Sample : rt
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 16 12:12:55 2022
Quant Method : C:\msdchem\1\METHODS\MLMGRORT.M
Quant Title : VPH
QLast Update : Mon Aug 30 13:12:28 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 mm df

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
5) S a,a,a-Trifluorotoluene	10.767	358366303	114.127 ppb
Spiked Amount 300.000		Recovery =	38.04%
Target Compounds			
1) 2-methylpentane	8.053f	29391661	134.492
2) 1,2,4-Trimethylbenzene	14.490f	116886329	133.372
3) t n-Hexane	8.556	26929418	86.611
4) t n-Dodecane	15.605	22765014	73.218

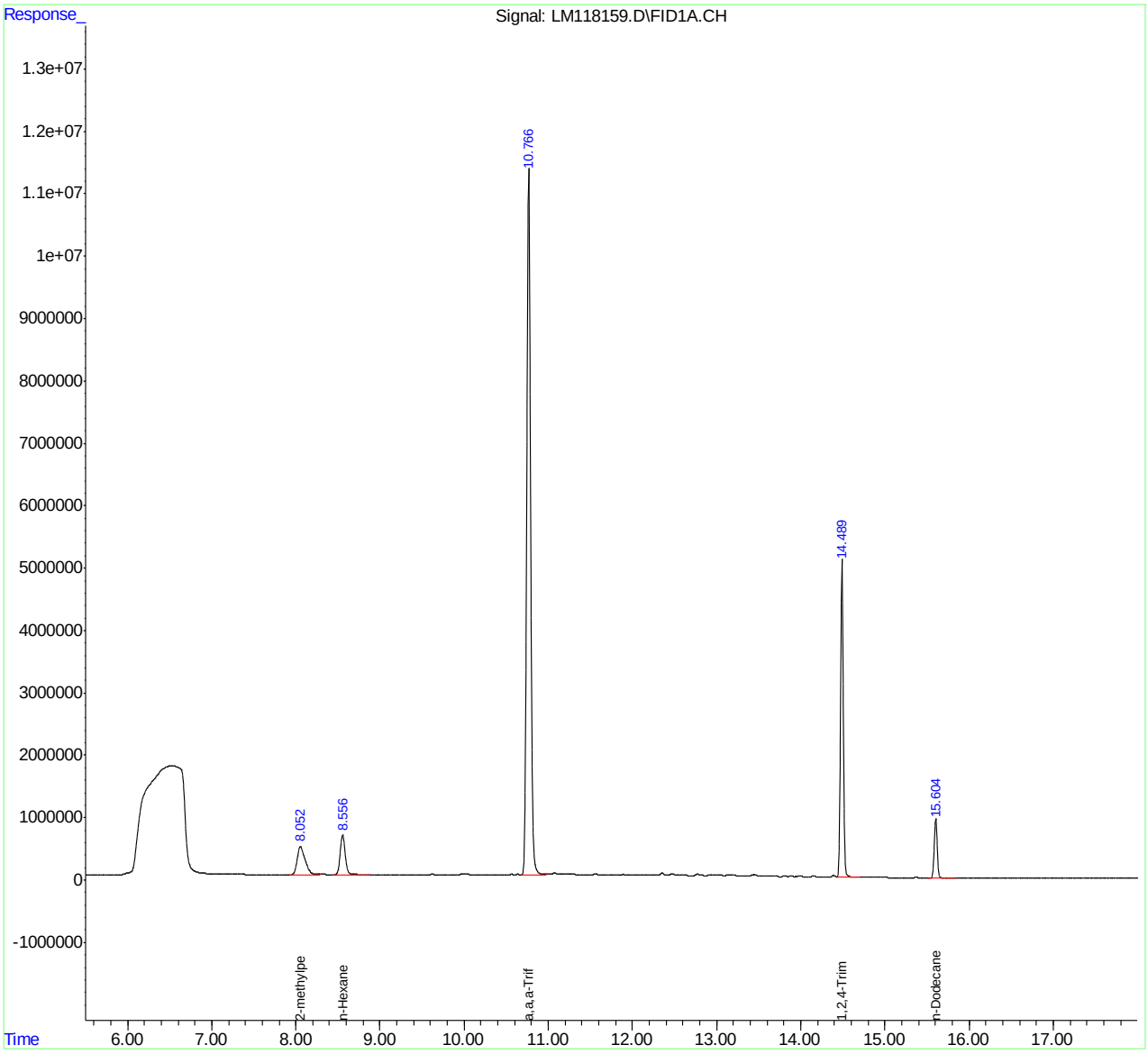
(f)=RT Delta > 1/2 Window (m)=manual int.

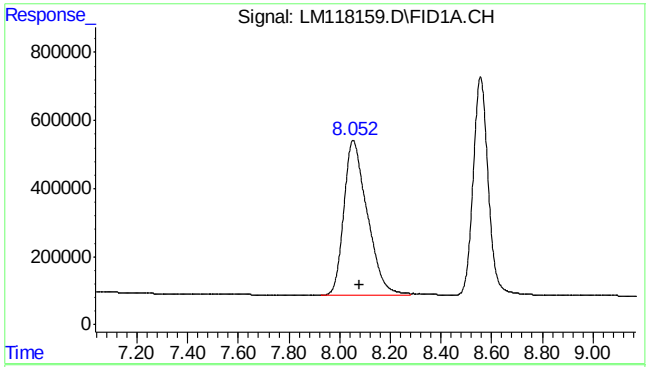
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118159.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 7:54 pm
Operator : johnn
Sample : rt
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 16 12:12:55 2022
Quant Method : C:\msdchem\1\METHODS\MLMGRORT.M
Quant Title : VPH
QLast Update : Mon Aug 30 13:12:28 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

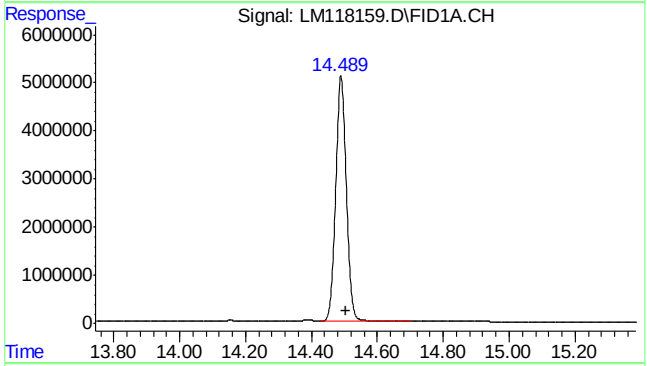
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 mm df





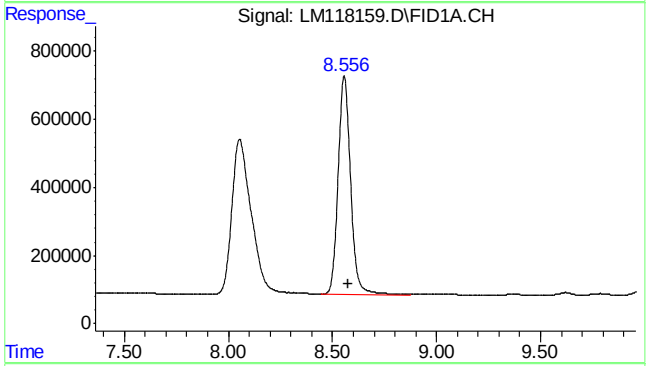
#1 2-methylpentane

R.T.: 8.053 min
Delta R.T.: -0.025 min
Response: 29391661
Conc: 134.49



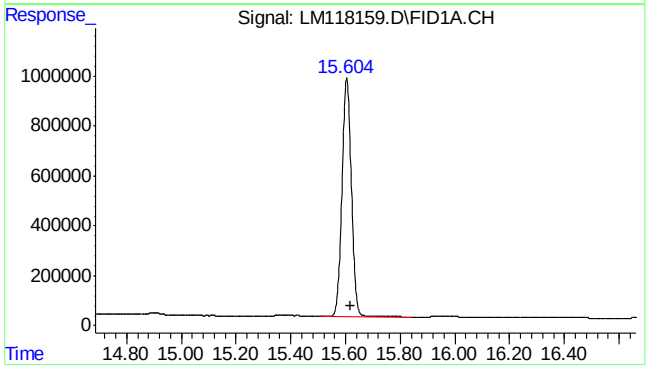
#2 1,2,4-Trimethylbenzene

R.T.: 14.490 min
Delta R.T.: -0.015 min
Response: 116886329
Conc: 133.37



#3 n-Hexane

R.T.: 8.556 min
Delta R.T.: -0.020 min
Response: 26929418
Conc: 86.61



#4 n-Dodecane

R.T.: 15.605 min
Delta R.T.: -0.013 min
Response: 22765014
Conc: 73.22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118688.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 11:02 am
Operator : johnn
Sample : rt
Misc : GC60041,GLM4926,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 10 11:48:41 2022
Quant Method : C:\msdchem\1\METHODS\MLMGRORT.M
Quant Title : VPH
QLast Update : Mon Aug 30 13:12:28 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 mm df

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
5) S a,a,a-Trifluorotoluene	10.766	372210477	118.536 ppb
Spiked Amount 300.000		Recovery =	39.51%
Target Compounds			
1) 2-methylpentane	8.048f	11782762	53.916
2) 1,2,4-Trimethylbenzene	14.508	93618458	106.822
3) t n-Hexane	8.554	8149551	26.211
4) t n-Dodecane	15.632	19464237	62.601

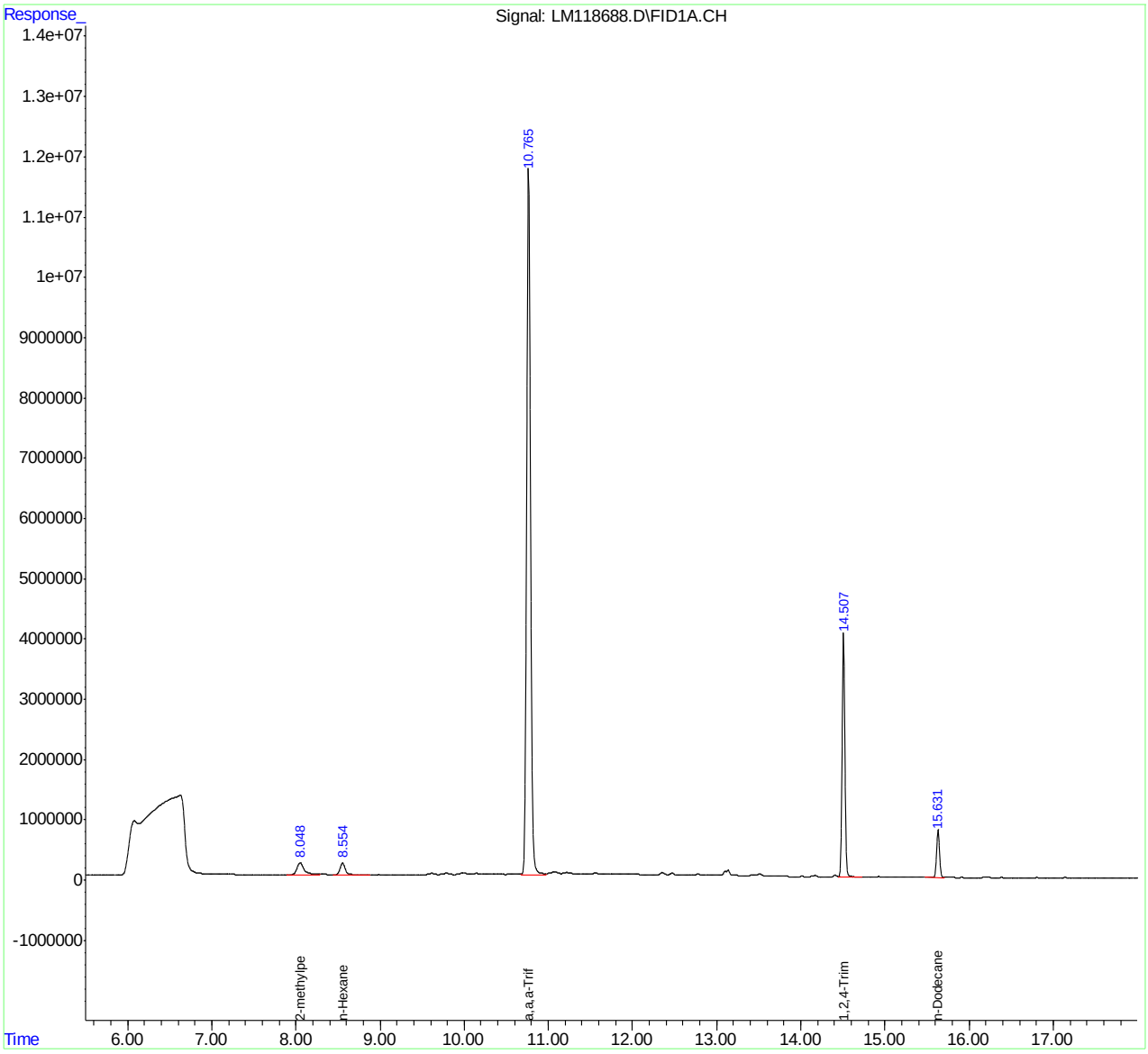
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118688.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 11:02 am
Operator : johnn
Sample : rt
Misc : GC60041,GLM4926,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 10 11:48:41 2022
Quant Method : C:\msdchem\1\METHODS\MLMGRORT.M
Quant Title : VPH
QLast Update : Mon Aug 30 13:12:28 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 mm df



MLMGRORT.M Thu Aug 11 14:49:02 2022 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118161.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 8:45 pm
Operator : johnn
Sample : ic4909-200
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:14:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.765	127251179	92.727 ug/l
Spiked Amount 300.000 Range 70 - 116 Recovery = 30.91%#			
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	266587203	249.682 ug/l
2) H TPH-GRO (C6-C12)	11.820	248807417	248.076 ug/l

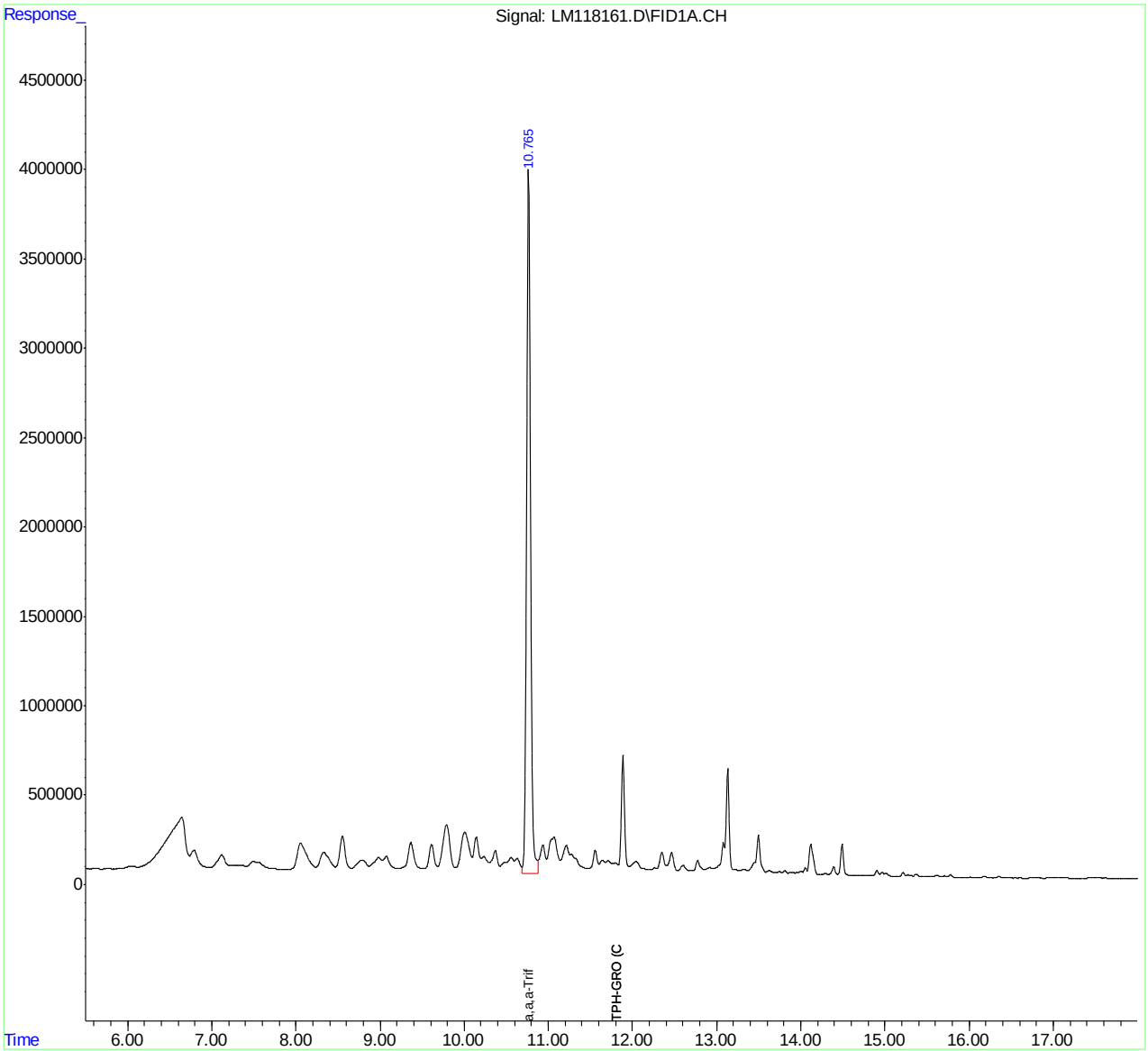
(f)=RT Delta > 1/2 Window (m)=manual int.

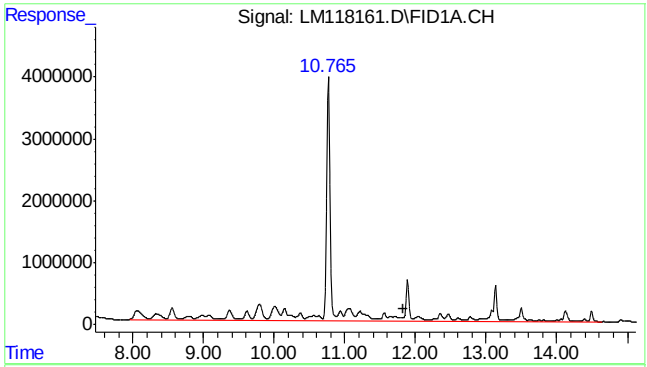
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118161.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 8:45 pm
Operator : johnn
Sample : ic4909-200
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:14:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

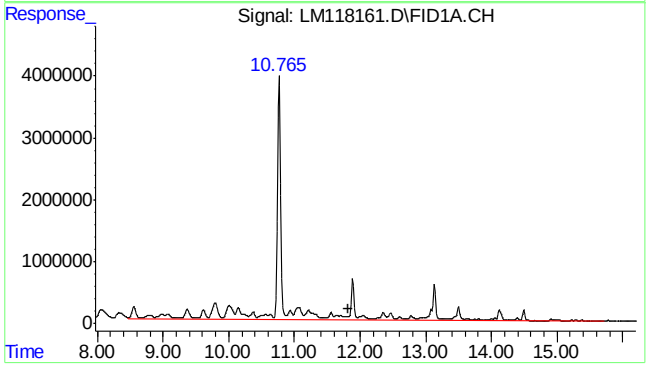
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um





#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 266587203
Conc: 249.68 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 248807417
Conc: 248.08 ug/l m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118162.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 9:10 pm
Operator : johnn
Sample : ic4909-800
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:14:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.765	241718676	176.138 ug/l
Spiked Amount 300.000 Range 70 - 116 Recovery = 58.71%#			
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	901537400	844.368 ug/l
2) H TPH-GRO (C6-C12)	11.820	845968903	843.483 ug/l

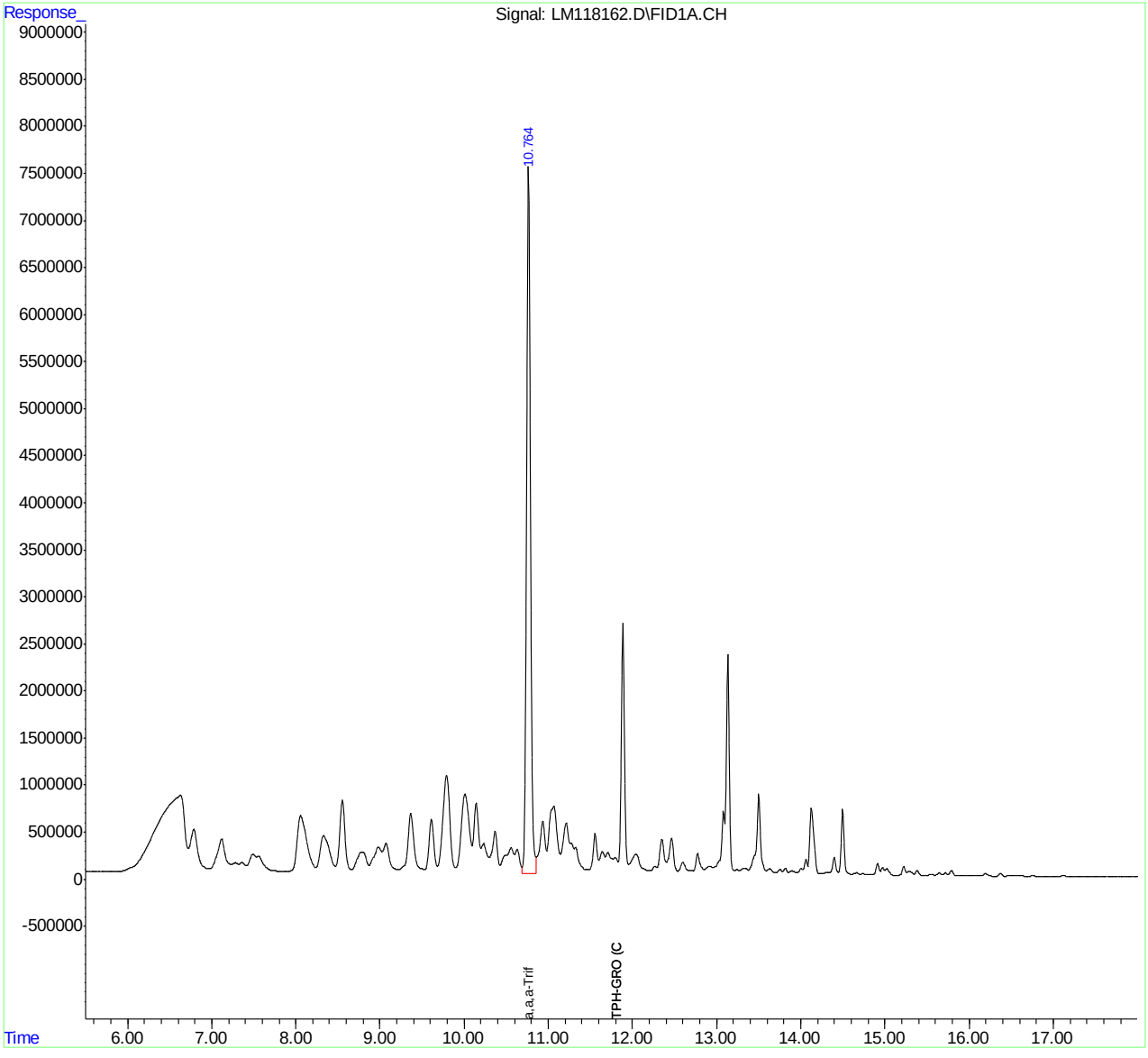
(f)=RT Delta > 1/2 Window (m)=manual int.

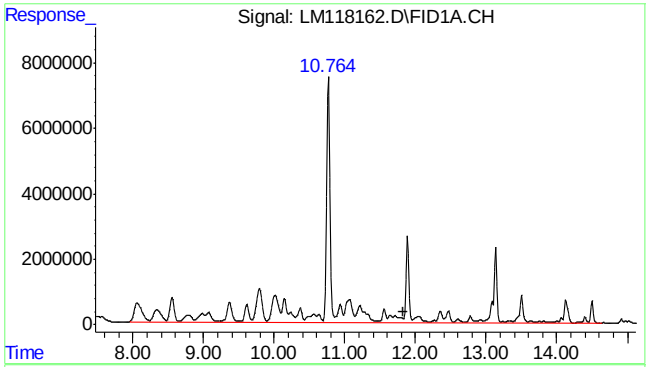
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118162.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 9:10 pm
Operator : johnn
Sample : ic4909-800
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:14:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

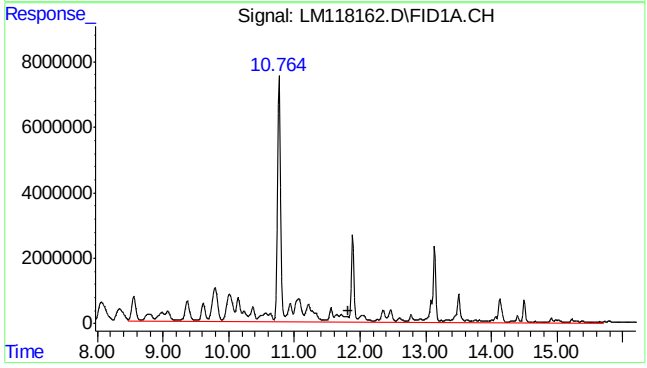
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um





#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 901537400
Conc: 844.37 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 845968903
Conc: 843.48 ug/l m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118163.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 9:36 pm
Operator : johnn
Sample : ic4909-4000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:14:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.765	389803501	284.045 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery =	94.68%
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	4294882705	4022.532 ug/l
2) H TPH-GRO (C6-C12)	11.820	4040871431	4028.997 ug/l

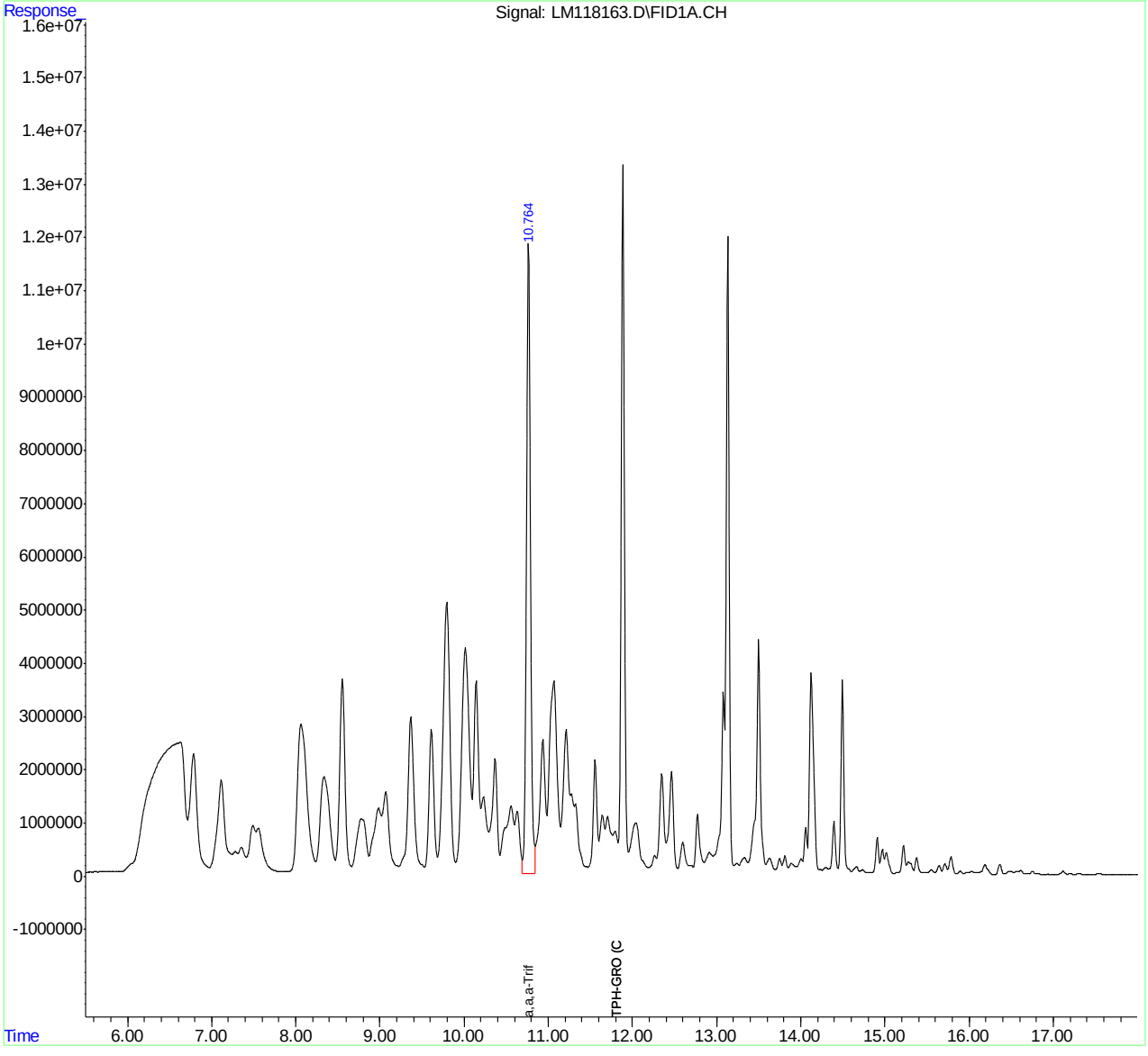
(f)=RT Delta > 1/2 Window (m)=manual int.

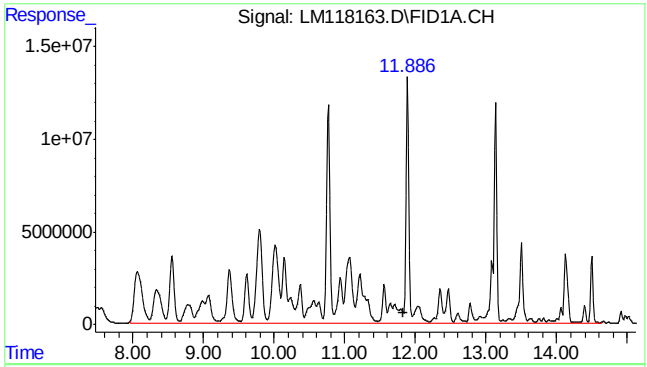
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118163.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 9:36 pm
Operator : johnn
Sample : ic4909-4000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:14:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

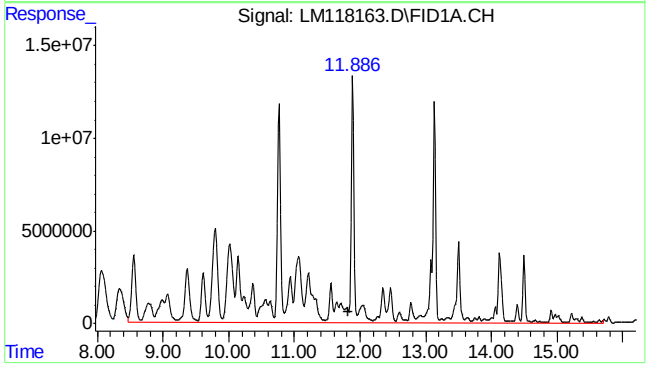
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um





#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 4294882705
Conc: 4022.53 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 4040871431
Conc: 4029.00 ug/l m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118164.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 10:02 pm
Operator : johnn
Sample : icc4909-8000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.766	405948282	295.810 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery =	98.60%
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	8453799433	7917.721 ug/l
2) H TPH-GRO (C6-C12)	11.820	7968078248	7944.662 ug/l

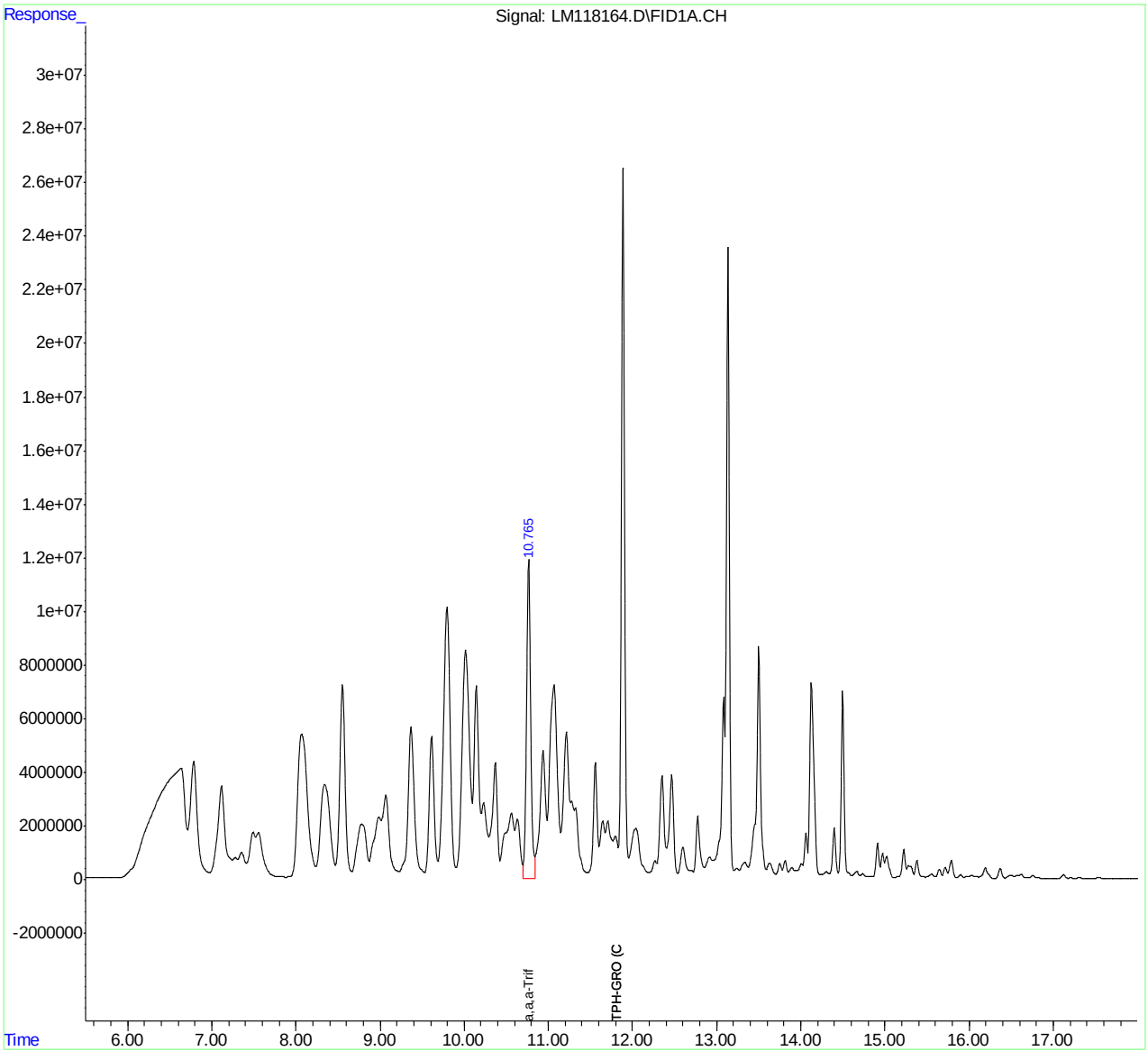
(f)=RT Delta > 1/2 Window (m)=manual int.

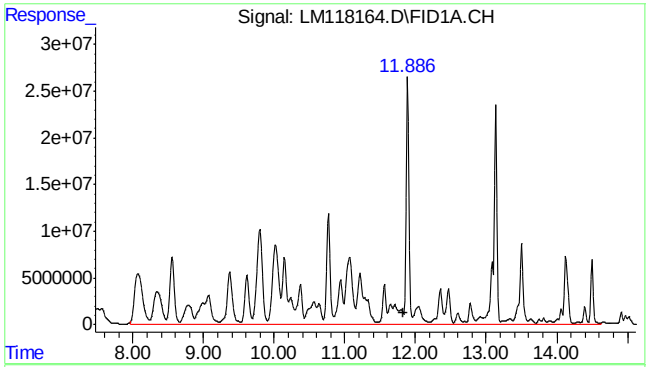
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118164.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 10:02 pm
Operator : johnn
Sample : icc4909-8000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

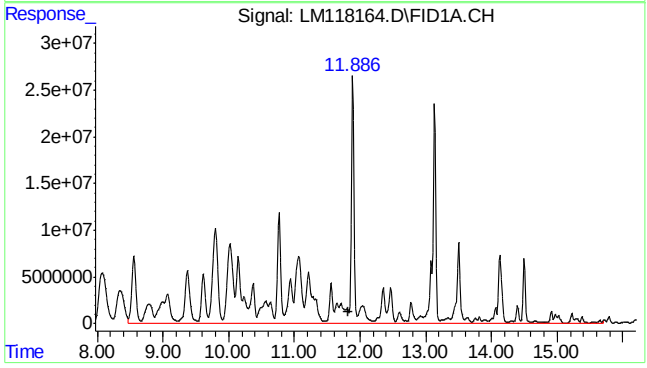
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um





#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 8453799433
Conc: 7917.72 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 7968078248
Conc: 7944.66 ug/l m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118165.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 10:27 pm
Operator : johnn
Sample : ic4909-20000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:23 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.763	605057577	440.899 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 146.97%#	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	20958278380	19629.256 ug/l
2) H TPH-GRO (C6-C12)	11.820	19883215939	19824.785 ug/l

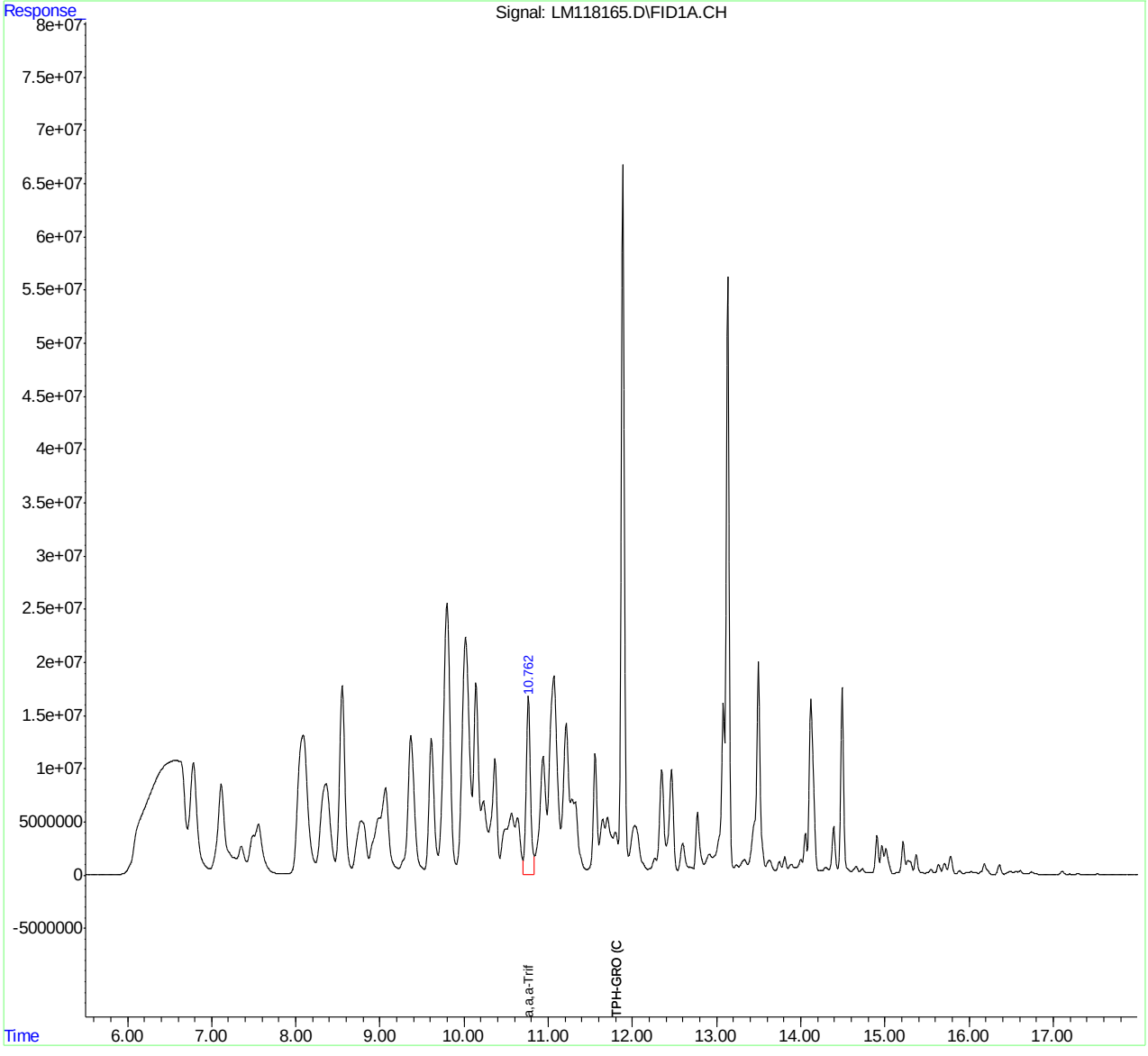
(f)=RT Delta > 1/2 Window (m)=manual int.

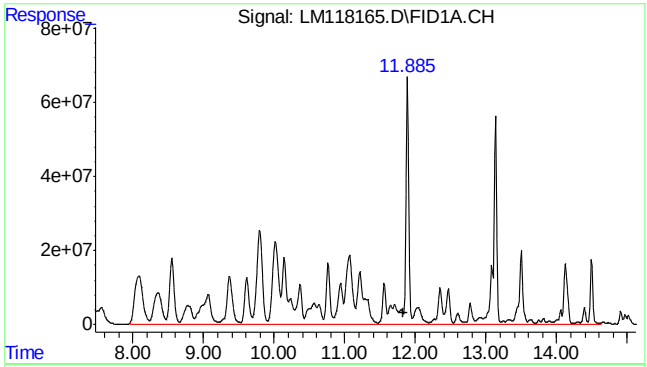
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118165.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 10:27 pm
Operator : johnn
Sample : ic4909-20000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:23 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

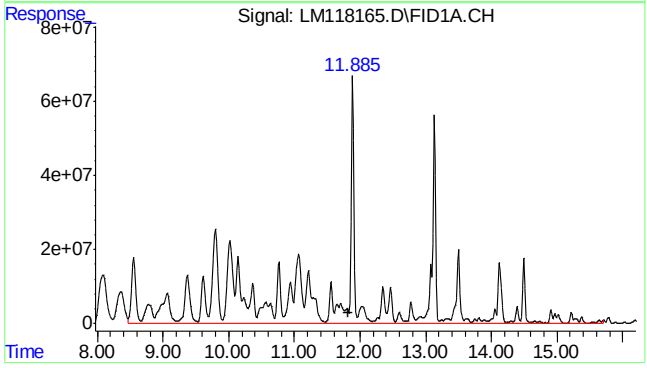
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um





#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 20958278380
Conc: 19629.26 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 19883215939
Conc: 19824.79 ug/l m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118166.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 10:53 pm
Operator : johnn
Sample : ic4909-30000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.763	777677908	566.685 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 188.89%#	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	29996090822	28093.956 ug/l
2) H TPH-GRO (C6-C12)	11.820	28305235118	28222.055 ug/l

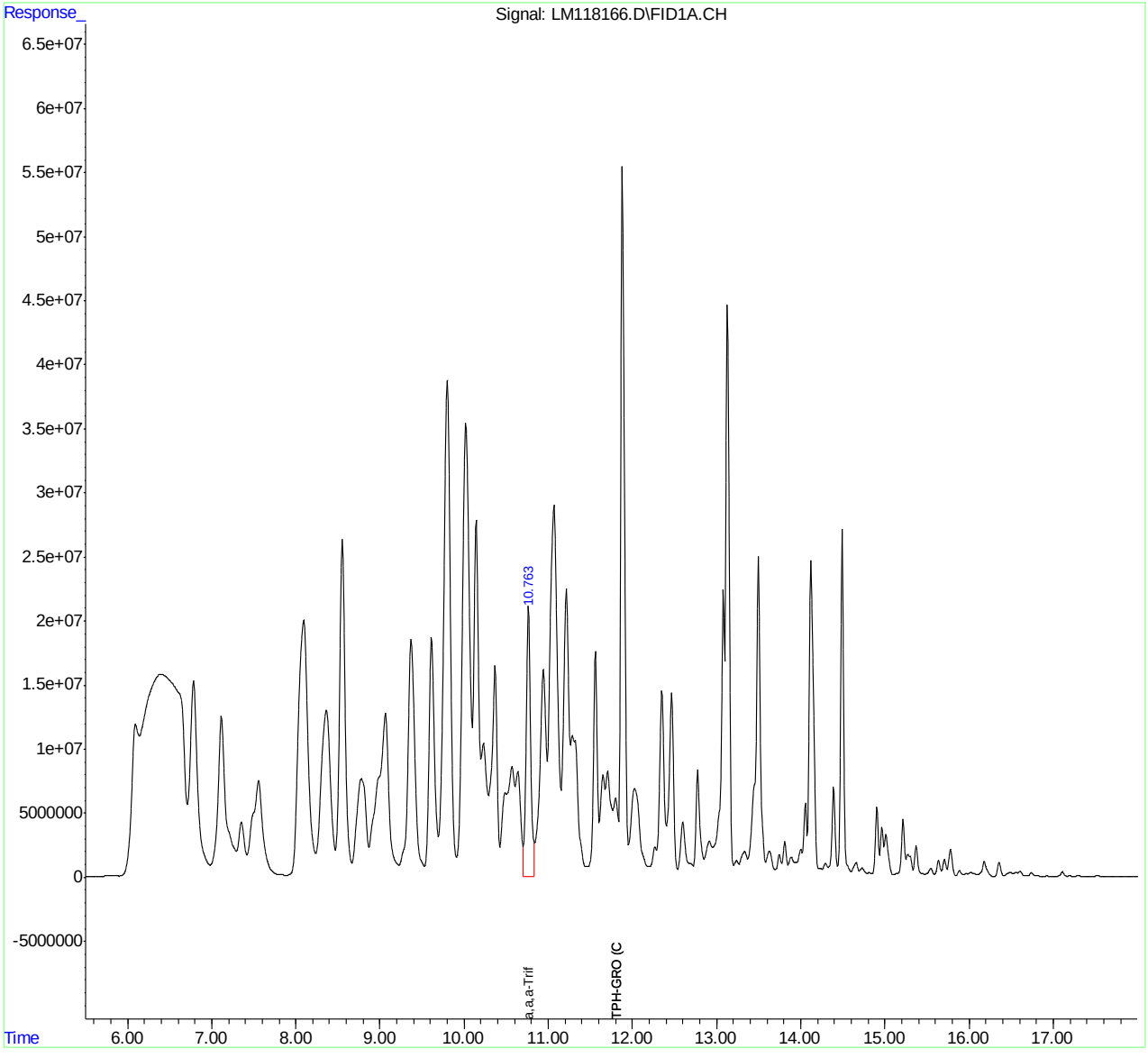
(f)=RT Delta > 1/2 Window (m)=manual int.

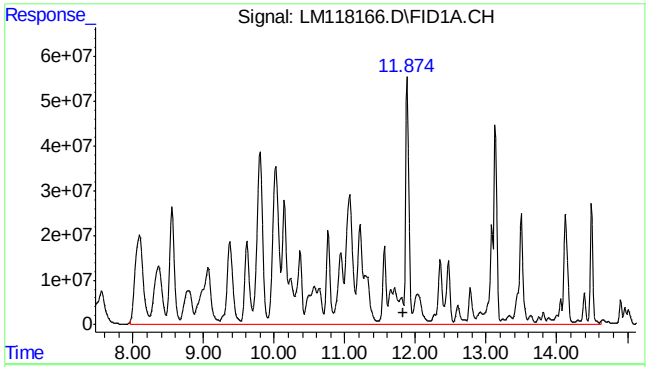
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118166.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 10:53 pm
Operator : johnn
Sample : ic4909-30000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

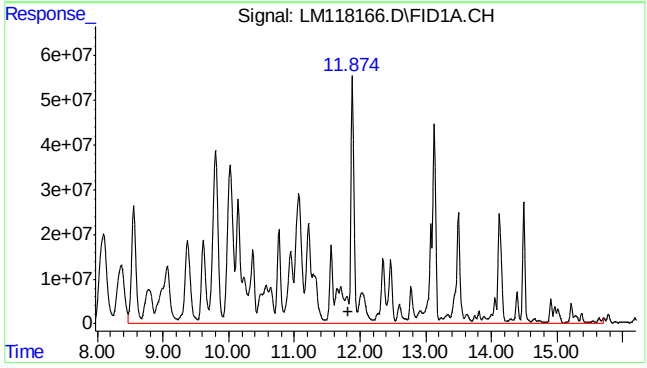
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um





#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 29996090822
Conc: 28093.96 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 28305235118
Conc: 28222.05 ug/l m

7.6.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118167.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 11:19 pm
Operator : johnn
Sample : ic4909-40000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.761	842811332	614.147 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 204.72%#	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	33434250852	31314.093 ug/l
2) H TPH-GRO (C6-C12)	11.820	31009481298	30918.354 ug/l

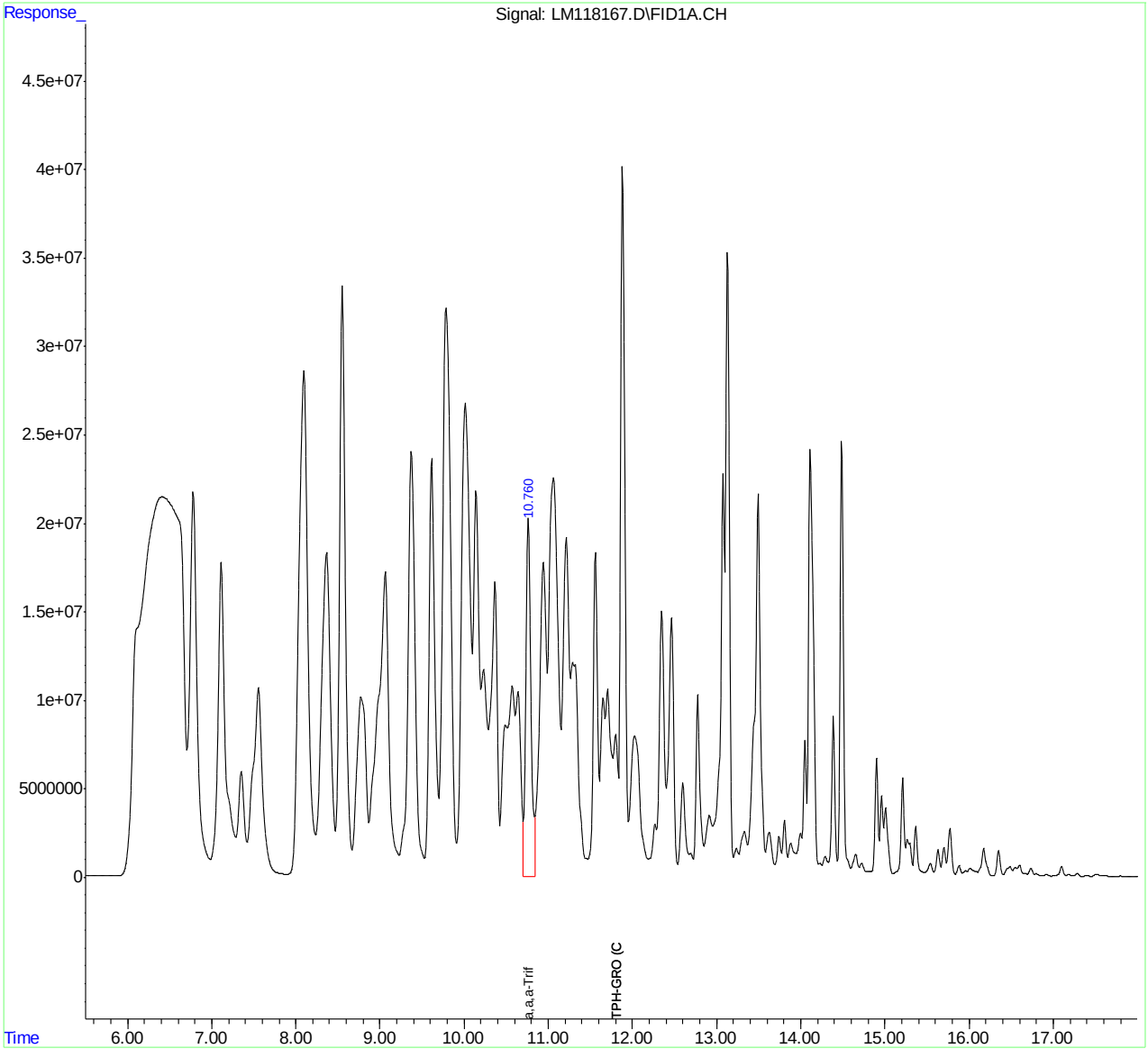
(f)=RT Delta > 1/2 Window (m)=manual int.

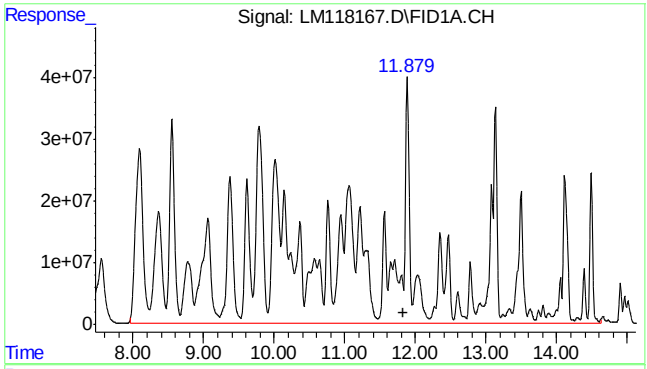
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118167.D
Signal(s) : FID1A.CH
Acq On : 15 Jul 2022 11:19 pm
Operator : johnn
Sample : ic4909-40000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 13:15:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

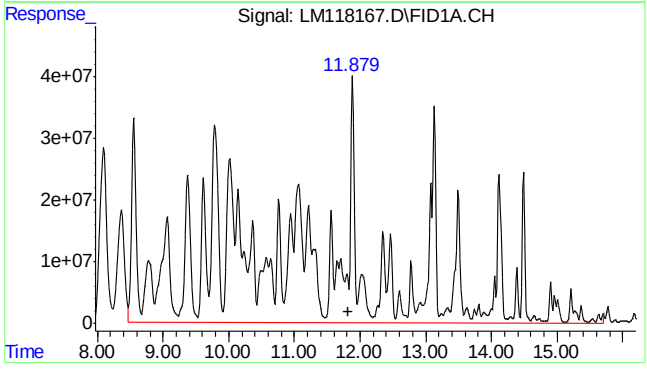
Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um





#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 33434250852
Conc: 31314.09 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 31009481298
Conc: 30918.35 ug/l m

7.6.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118171.D
Signal(s) : FID1A.CH
Acq On : 16 Jul 2022 1:01 am
Operator : johnn
Sample : icv4909-8000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 10:25:16 2022
Quant Method : C:\msdchem\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.766	381006448	277.635 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery =	92.55%
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	7077949689	6629.117 ug/l
2) H TPH-GRO (C6-C12)	11.820	6730207311	6710.429 ug/l

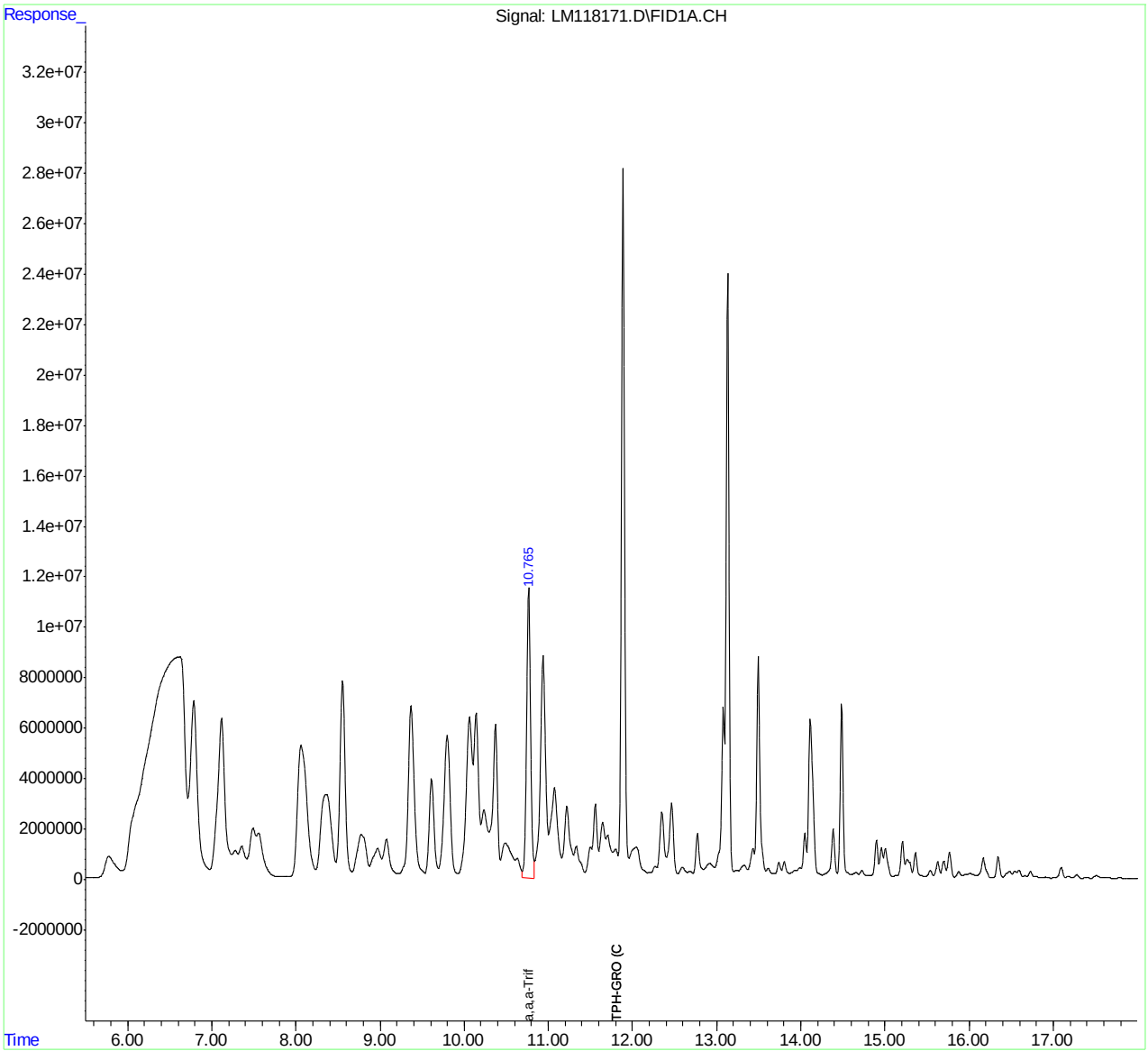
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

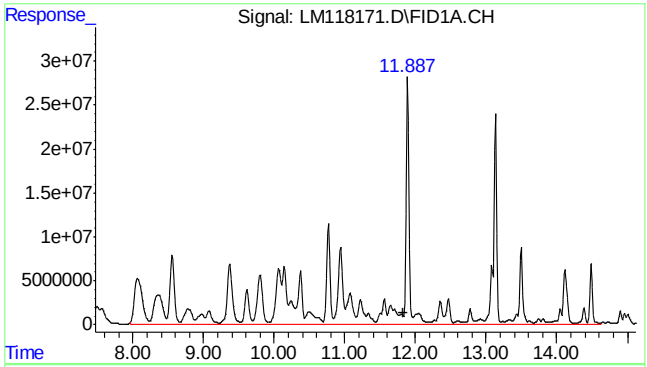
Data Path : C:\msdchem\1\DATA\GLM4909\
Data File : LM118171.D
Signal(s) : FID1A.CH
Acq On : 16 Jul 2022 1:01 am
Operator : johnn
Sample : icv4909-8000
Misc : GC59883,GLM4909,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 16 10:25:16 2022
Quant Method : C:\msdchem\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

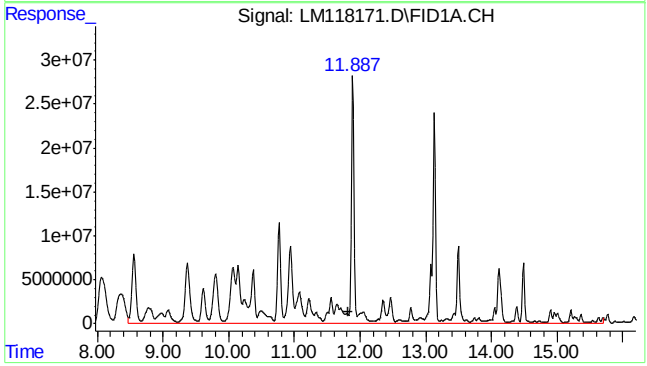


MLM4909.M Sat Jul 16 12:20:55 2022 Page: 2



#1 TPH-GRO (C6-C10)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 7077949689
Conc: 6629.12 ug/l m



#2 TPH-GRO (C6-C12)

R.T.: 11.820 min
Delta R.T.: 0.000 min
Response: 6730207311
Conc: 6710.43 ug/l m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4925\
Data File : LM118685.D
Signal(s) : FID1A.CH
Acq On : 09 Aug 2022 9:20 pm
Operator : johnn
Sample : cc4909-4000
Misc : GC60041,GLM4925,5,,100,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 09 21:38:40 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.764	413112754	301.031 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 100.34%	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	4333679881	4058.869 ug/l
2) H TPH-GRO (C6-C12)	11.820	4090939075	4078.917 ug/l

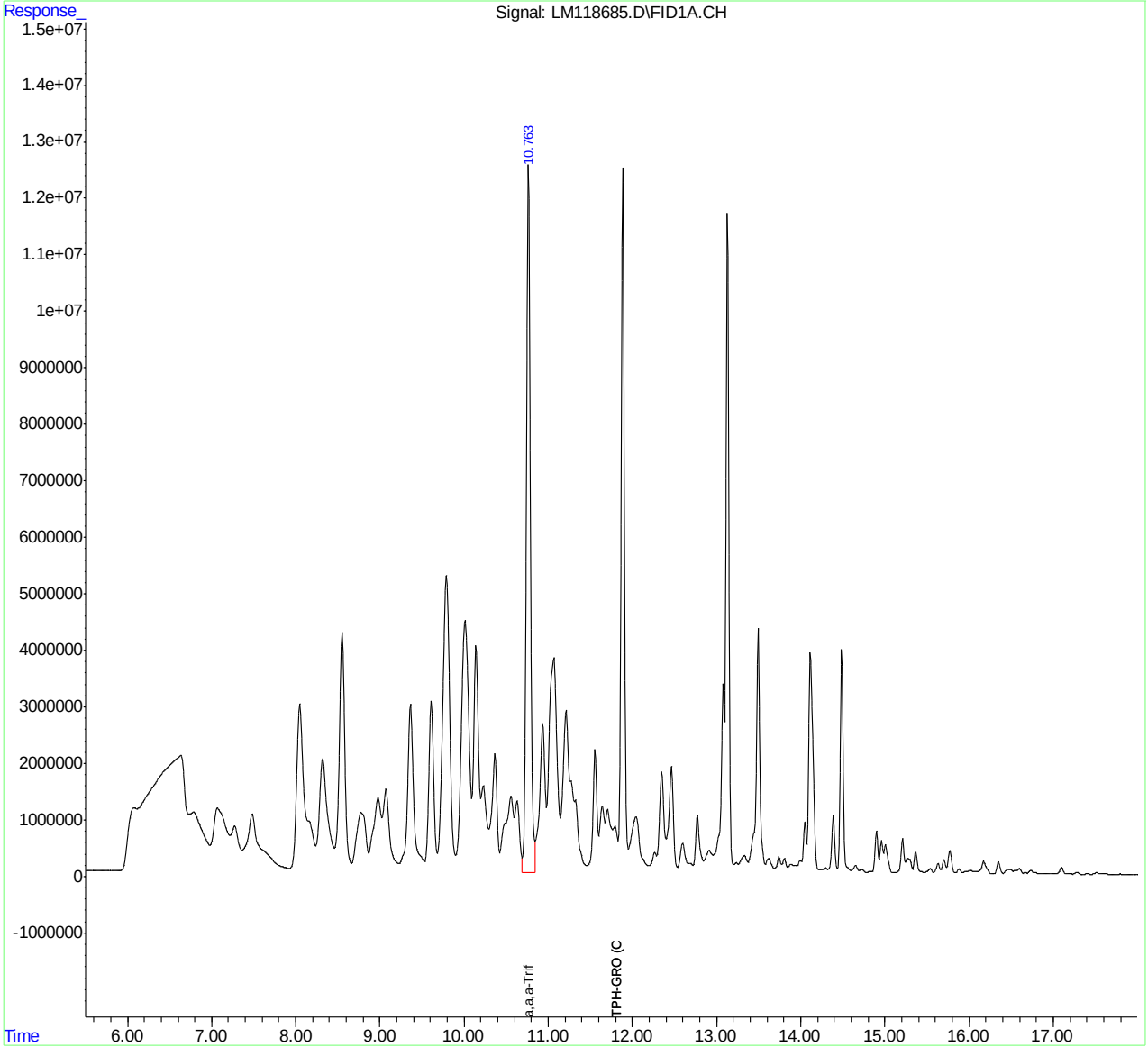
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4925\
Data File : LM118685.D
Signal(s) : FID1A.CH
Acq On : 09 Aug 2022 9:20 pm
Operator : johnn
Sample : cc4909-4000
Misc : GC60041,GLM4925,5,,100,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 09 21:38:40 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um



MLM4909.M Wed Aug 10 11:19:11 2022 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118689.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 11:27 am
Operator : johnn
Sample : cc4909-8000
Misc : GC60041,GLM4926,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 11:45:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.763	435817630	317.575 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 105.86%	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	8824887114	8265.277 ug/l
2) H TPH-GRO (C6-C12)	11.820	8262634417	8238.353 ug/l

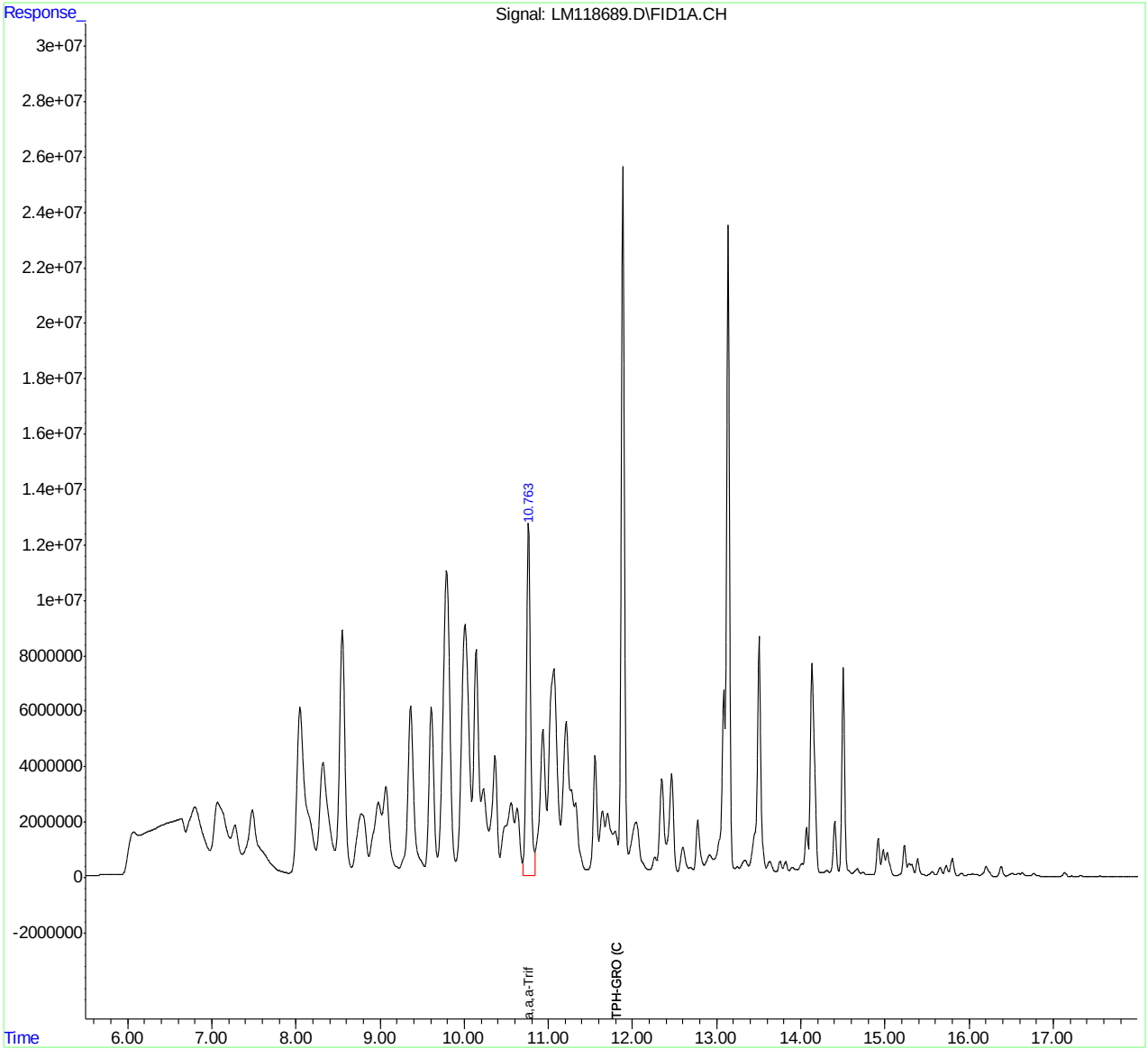
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118689.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 11:27 am
Operator : johnn
Sample : cc4909-8000
Misc : GC60041,GLM4926,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 11:45:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um



MLM4909.M Thu Aug 11 14:49:43 2022 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118699.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 4:25 pm
Operator : minaj
Sample : cc4909-4000
Misc : GC60058,GLM4926,5,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 16:43:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.764	411428595	299.803 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery =	99.93%
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	4230830499	3962.542 ug/l
2) H TPH-GRO (C6-C12)	11.820	3953657191	3942.039 ug/l

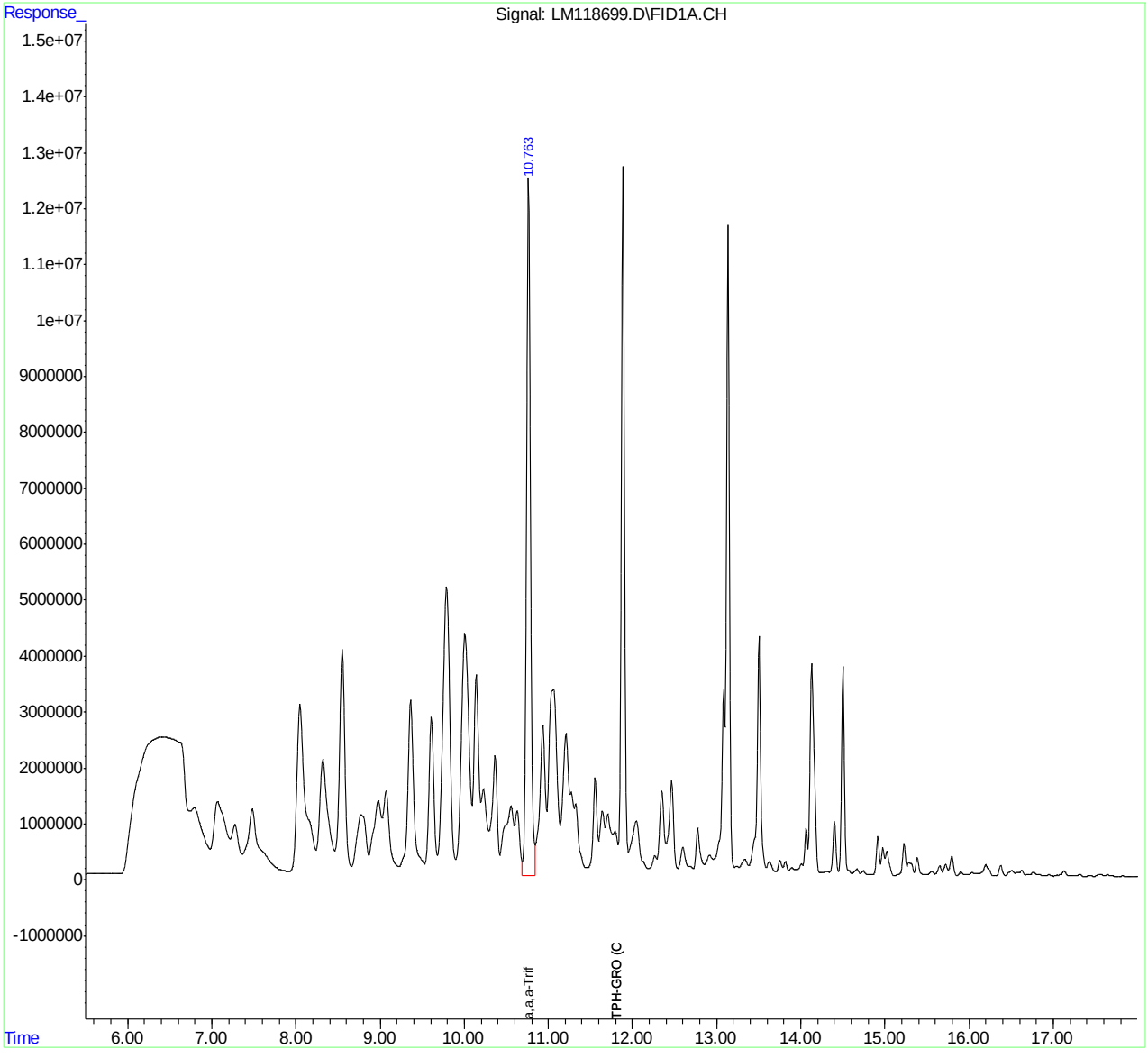
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118699.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 4:25 pm
Operator : minaj
Sample : cc4909-4000
Misc : GC60058,GLM4926,5,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 16:43:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118706.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 7:38 pm
Operator : minaj
Sample : cc4909-8000
Misc : GC60073,GLM4926,5,,100,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 19:56:23 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	10.766	443348549	323.063 ug/l
Spiked Amount 300.000	Range 70 - 116	Recovery = 107.69%	
Target Compounds			
1) H TPH-GRO (C6-C10)	11.820	8655955201	8107.057 ug/l
2) H TPH-GRO (C6-C12)	11.820	8121465961	8097.599 ug/l

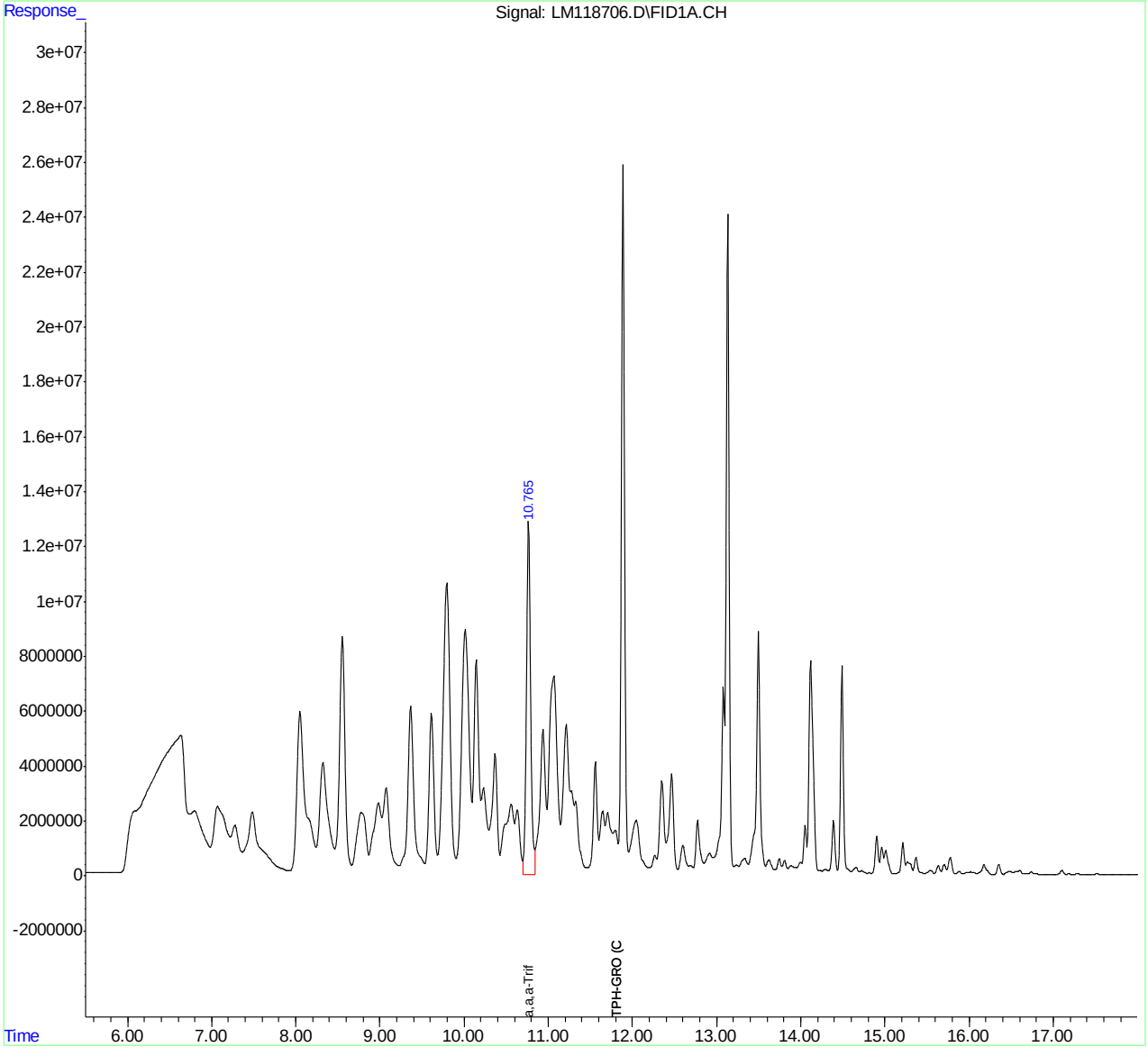
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GLM4926\
Data File : LM118706.D
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 7:38 pm
Operator : minaj
Sample : cc4909-8000
Misc : GC60073,GLM4926,5,,100,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Aug 10 19:56:23 2022
Quant Method : C:\MSDCHEM\1\METHODS\MLM4909.M
Quant Title : Method SW846 8015C (GRO) .
QLast Update : Sat Jul 16 10:22:40 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : N/A
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : RTX-502.2 105 m.X 0.53 mm ID 3.0 um



MLM4909.M Thu Aug 11 14:52:58 2022 Page: 2

GC Volatile Run Log

Standard / Reagents	Lot #					
Standard	GRO STD V022-2749-65	GRO STD(3) V022-2749-60	GRO MARKER V022-2749-49		Column	Rxi-624(60mx0.25mmx1.4um)
Standard Concentrations	10000ppm	5000ppm	250/500ppm		Method	
Expiration Date	8/15/22	8/8/22	12/20/2022		Init Calib Date	8/31/2021
Internal/Surrogate	V022-2749-66					
Internal/Surrogate Concentration	2000ppm				Analysis Date	7/15/2022
Expiration Date	8/15/22				Sequence loaded by	John Nieradka
					Data processed by	John Nieradka
					Batch ID	GLM4909
					Matrix	AQ
					Approved By:	MOHUI
pH paper Lot# (wide range):	223120	8/15/2023	Initial Calibration Method	GLM4839	Approved Date:	7/16/2022 4:18:02 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	urrogat	pH	ALS #	Status	Comments
LM	118159	RT		NA			5			1	OK	10uL GRO Marker, 7.5uL Surrogate/50mL
LM	118160	IB		NA			5			2		
LM	118161	IC4909-200		NA			5			3	OK	2uL GRO STD, 5uL Surrogate/100mL
LM	118162	IC4909-800		NA			5			4	OK	4uL GRO STD, 5uL Surrogate/50mL
LM	118163	IC4909-4000		NA			5			5	OK	20uL GRO STD, 7.5uL Surrogate/50mL
LM	118164	ICC4909-8000		NA			5			6	OK	40uL GRO STD, 7.5uL Surrogate/50mL
LM	118165	IC4909-20000		NA			5			7	OK	100uL GRO STD, 10uL Surrogate/50mL
LM	118166	IC4909-30000		NA			5			8	OK	150uL GRO STD, 12.5uL Surrogate/50mL
LM	118167	IC4909-40000		NA			5			9	OK	200uL GRO STD, 15uL Surrogate/50mL
LM	118168	IB		NA			5			10		

OR048-01
Rev Date: 12/18/2017

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Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	urrogat	pH	ALS #	Status	Comments
LM	118169	IB		NA			5			11		
LM	118170	IB		NA			5			12		
LM	118171	ICV4909-8000		NA			5			13	OK	80uL GRO STD(3), 7.5uL Surrogate/50mL

OR048-01
Rev Date: 12/18/2017

Page 2 of 2

GC Volatile Run Log

Standard / Reagents	Lot #					
Standard	GRO STD:V022-2749-72	GRO STD(3):V022-2749-67	GRO MARKER:V022-2749-49		Column	Rtx-502.2(105mx0.53mmx3um)
Standard Concentration					Method	V8015GRO
Expiration Date	9/1/2022	8/16/2022	12/20/2022		Init Calib Date	8/31/21
Internal Surrogate	V022-2749-74					
I/S Concentration	1500ppm				Analysis Date	8/9/2022
Expiration Date	9/3/2022				Sequence loaded by	John Nieradka
					Data processed by	Mina Jony
	20000PPM	5000PPM	250/500ppm		Batch ID	GLM4925
					Matrix	SO
					Approved By:	KANYAV
pH paper lot#: 207519					Approved Date:	8/16/2022 10:42:26 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
LM	118662	IB		NA						1		
LM	118663	IB		NA						2		
LM	118664	RT		NA						3	OK	10uL GRO Marker/50mL
LM	118665	CC4909-4000		NA						4	OK	20uL GRO STD/100mL
LM	118666	IB		NA						5		
LM	118667	MB		NA						6	OK	
LM	118668	BS		NA						7	OK	80uL GRO STD(3)/50mL
LM	118669	BSD		NA						8	OK	80uL GRO STD(3)/50mL
LM	118670	IB		NA						9		
LM	118671	JD49321-1	2	NA	GC60041	V8015GRO	18.54	10	100	10	OK	

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Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
LM	118672	JD49321-2	2	NA	GC60041	V8015GRO	23.24	10	100	11	OK	
LM	118673	JD49321-3	2	NA	GC60041	V8015GRO	19.41	10	100	12	OK	
LM	118674	JD49321-3DUP	2	NA	GC60041	V8015GRO	19.41	10	100	13	OK	
LM	118675	CC4909-8000		NA						14	OK	40uL GRO STD/100mL
LM	118676	IB		NA						15		
LM	118677	MB2		NA						16	ok	
LM	118678	JD49450-8	4	NA	GC60055	V8015GRO	4.59	15	100	17	RR	qc purposes only
LM	118679	JD49450-9	3	NA	GC60055	V8015GRO	4.78	15	100	18	OK	
LM	118680	JD49450-10	3	NA	GC60055	V8015GRO	4.55	15	100	19	OK	
LM	118681	JD49596-3	4	NA	GC60055	V8015GRO	5.15	5	100	20	ok	
LM	118682	JD49450-8MS	4	NA	GC60055	V8015GRO	4.59	15	100	21	OK	20uL GRO STD/50mL
LM	118683	JD49321-2	2	NA	GC60041	V8015GRO	23.24	10	100	22	OK	
LM	118684	IB		NA						23		
LM	118685	CC4909-4000		NA						24	OK	20uL GRO STD/100mL

GC Volatile Run Log

Standard / Reagents	Lot #					
Standard	GRO STD:V022-2749-72	GRO STD(3):V022-2749-67	GRO MARKER:V022-2749-49		Column	Rtx-502.2(105mx0.53mmx3um)
Standard Concentration					Method	V8015GRO
Expiration Date	9/1/2022	8/16/2022	12/20/2022		Init Calib Date	8/31/21
Internal Surrogate	V022-2749-74					
I/S Concentration	1500ppm				Analysis Date	8/10/2022
Expiration Date	9/3/2022				Sequence loaded by	Mina Jony
					Data processed by	Mina Jony
	20000PPM	5000PPM	250/500ppm		Batch ID	GLM4926
					Matrix	SO
					Approved By:	MOHUI
pH paper lot#: 207519					Approved Date:	8/11/2022 9:59:59 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
LM	118686	IB		NA						1		
LM	118687	IB		NA						2		
LM	118688	RT		NA						3	OK	10uL GRO Marker/50mL
LM	118689	CC4909-8000		NA						4	OK	40uL GRO STD/100mL
LM	118690	IB		NA						5		
LM	118691	MB		NA						6	OK	
LM	118692	BS		NA						7	OK	80uL GRO STD(3)/50mL
LM	118693	IB		NA						8		
LM	118694	JD49450-8	4	NA	GC60055	V8015GRO	4.59	15	100	9	OK	
LM	118695	JD49719-1	6	NA	GC60073	V8015GRO	5.47	10	100	10	OK	

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mmx3um)										9 PM													

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
LM	118696	JD49719-2	5	NA	GC60073	V8015GRO	5.12	10	100	11	OK	
LM	118697	JD49400-1	5	NA	GC60058	V8015GRO	8.43	10	100	12	OK	
LM	118698	IB		NA						13		
LM	118699	CC4909-4000		NA						14	OK	20uL GRO STD/100mL
LM	118700	IB		NA						15		
LM	118701	MB2		NA						16	OK	
LM	118702	JD49719-3	5	NA	GC60073	V8015GRO	5.56	10	100	17	OK	
LM	118703	JD49719-4	5	NA	GC60073	V8015GRO	4.15	10	100	18	OK	
LM	118704	JD49719-1MS	6	NA	GC60073	V8015GRO	5.47	10	100	19	OK	40uL GRO STD/100mL
LM	118705	JD49719-1MSD	6	NA	GC60073	V8015GRO	5.47	10	100	20	OK	40uL GRO STD/100mL
LM	118706	CC4909-8000		NA						21	OK	40uL GRO STD/100mL

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GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-MB1	RK14353.D	1	08/12/22	CL	08/10/22	OP41180	GRK355

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD49400-1

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	21	ug/kg	
11141-16-5	Aroclor 1232	ND	33	21	ug/kg	
53469-21-9	Aroclor 1242	ND	33	14	ug/kg	
12672-29-6	Aroclor 1248	ND	33	30	ug/kg	
11097-69-1	Aroclor 1254	ND	33	18	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	14	ug/kg	
37324-23-5	Aroclor 1262	ND	33	22	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	60%	10-163%
877-09-8	Tetrachloro-m-xylene	67%	10-163%
2051-24-3	Decachlorobiphenyl	58%	10-215%
2051-24-3	Decachlorobiphenyl	65%	10-215%

Method Blank Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-MB1 [a]	RK14686.D	1	08/17/22	CL	08/10/22	OP41180	GRK361

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD49400-1

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	21	ug/kg	
11141-16-5	Aroclor 1232	ND	33	21	ug/kg	
53469-21-9	Aroclor 1242	ND	33	14	ug/kg	
12672-29-6	Aroclor 1248	ND	33	30	ug/kg	
11097-69-1	Aroclor 1254	ND	33	18	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	14	ug/kg	
37324-23-5	Aroclor 1262	ND	33	22	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	54%	10-163%
877-09-8	Tetrachloro-m-xylene	54%	10-163%
2051-24-3	Decachlorobiphenyl	32%	10-215%
2051-24-3	Decachlorobiphenyl	41%	10-215%

(a) Had TBA cleanup.

Method Blank Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41170-MB1	2Y109590.D	1	08/10/22	TL	08/09/22	OP41170	G2Y4272

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49400-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	3.4	mg/kg	
	TPH-ORO (> C28-C40)	ND	10	3.4	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	31%	10-124%
438-22-2	5a-Androstane	38%	15-129%

Method Blank Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41170-MB1	2Z87591.D	1	08/10/22	TL	08/09/22	OP41170	G2Z3372

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49400-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	3.4	mg/kg	
	TPH-ORO (> C28-C40)	ND	10	3.4	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	35%	10-124%
438-22-2	5a-Androstane	40%	15-129%

Blank Spike Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-BS1	RK14354.D	1	08/12/22	CL	08/10/22	OP41180	GRK355

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD49400-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	120	90	53-157
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	133	115	86	53-159
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	80%	10-163%
877-09-8	Tetrachloro-m-xylene	89%	10-163%
2051-24-3	Decachlorobiphenyl	78%	10-215%
2051-24-3	Decachlorobiphenyl	85%	10-215%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41170-BS1	2Y109591.D	1	08/10/22	TL	08/09/22	OP41170	G2Y4272
OP41170-BSD	2Y109592.D	1	08/10/22	TL	08/09/22	OP41170	G2Y4272

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49400-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	100	27.2	27* [a]	45.1	45	50* [b]	45-90/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	24%	39%	10-124%
438-22-2	5a-Androstane	26%	42%	15-129%

(a) Outside contorl limits biased low. BSD within acceptable criteria.
(b) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-MS	RK14355.D	1	08/12/22	CL	08/10/22	OP41180	GRK355
OP41180-MSD	RK14356.D	1	08/12/22	CL	08/10/22	OP41180	GRK355
JD49450-1	RK14357.D	1	08/12/22	CL	08/10/22	OP41180	GRK355

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD49400-1

CAS No.	Compound	JD49450-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		139	147	106	137	119	87	21	10-243/69
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/11
12672-29-6	Aroclor 1248	54.0			180			151		18	50-150/19
11097-69-1	Aroclor 1254	ND			ND			ND		nc	50-150/67
11096-82-5	Aroclor 1260	ND		139	146	105	137	107	78	31	10-200/64
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	74.6			158			119		28* [a]	50-150/5

CAS No.	Surrogate Recoveries	MS	MSD	JD49450-1	Limits
877-09-8	Tetrachloro-m-xylene	56%	53%	85%	10-163%
877-09-8	Tetrachloro-m-xylene	49%	47%	76%	10-163%
2051-24-3	Decachlorobiphenyl	55%	46%	72%	10-215%
2051-24-3	Decachlorobiphenyl	150%	112%	197%	10-215%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41170-MS	2Z87593.D	1	08/10/22	TL	08/09/22	OP41170	G2Z3372
OP41170-MSD	2Z87594.D	1	08/10/22	TL	08/09/22	OP41170	G2Z3372
JD49405-1	2Z87592.D	1	08/10/22	TL	08/09/22	OP41170	G2Z3372

The QC reported here applies to the following samples: **Method:** SW846 8015D

JD49400-1

CAS No.	Compound	JD49405-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		97.5	36.2	37	121	73.7	61	68* [a]	10-158/63
	TPH-ORO (> C28-C40)	ND			ND			ND		nc	-/32

CAS No.	Surrogate Recoveries	MS	MSD	JD49405-1	Limits
84-15-1	o-Terphenyl	36%	55%	37%	10-124%
438-22-2	5a-Androstane	37%	56%	42%	15-129%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

GC Identification Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GRK355-CC339	**Injection Date:**	08/12/22
Lab File ID:	RK14351.D	**Injection Time:**	01:20
Instrument ID:	GCRK	**Method:**	SW846 8082A

Sample ID:	OP41180-BS1	**Injection Date:**	08/12/22
Lab File ID:	RK14354.D	**Injection Time:**	02:09
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			120		ug/kg	12.5
Aroclor 1016	2			136		ug/kg	
AR1016-B	1	3.76	3.76	122		ug/kg	
AR1016-B	2	4.85	4.85	137		ug/kg	
AR1016-C	1	4.33	4.33	117		ug/kg	
AR1016-C	2	5.49	5.49	135		ug/kg	
AR1016-D	1	4.51	4.51	120		ug/kg	
AR1016-D	2	5.68	5.68	137		ug/kg	
AR1016-E	1	5.04	5.04	119		ug/kg	
AR1016-E	2	6.35	6.35	136		ug/kg	
Aroclor 1260	1 [a]			115		ug/kg	18.2
Aroclor 1260	2			138		ug/kg	
AR1260-A	1	7.07	7.07	118		ug/kg	
AR1260-A	2	8.43	8.43	144		ug/kg	
AR1260-B	1	7.62	7.62	114		ug/kg	
AR1260-B	2	9.08	9.08	137		ug/kg	
AR1260-C	1	7.96	7.96	115		ug/kg	
AR1260-C	2	9.52	9.52	132		ug/kg	
AR1260-D	1	8.40	8.40	113		ug/kg	
AR1260-D	2	9.87	9.86	139		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GRK355-CC339	**Injection Date:**	08/12/22
Lab File ID:	RK14351.D	**Injection Time:**	01:20
Instrument ID:	GCRK	**Method:**	SW846 8082A

Sample ID:	OP41180-MS	**Injection Date:**	08/12/22
Lab File ID:	RK14355.D	**Injection Time:**	02:25
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			147		ug/kg	15.4
Aroclor 1016	2			126		ug/kg	
AR1016-B	1	3.76	3.76	131		ug/kg	
AR1016-B	2	4.85	4.85	134		ug/kg	
AR1016-D	1	4.50	4.51	181		ug/kg	
AR1016-D	2	5.68	5.68	82.5		ug/kg	
AR1016-E	1	5.03	5.04	129		ug/kg	
AR1016-E	2	6.34	6.35	160		ug/kg	
Aroclor 1248	1 [a]			180		ug/kg	1.1
Aroclor 1248	2			178		ug/kg	
AR1248-A	1	3.76	3.76 [b]	348		ug/kg	
AR1248-A	2	4.85	4.85 [b]	342		ug/kg	
AR1248-C	1	4.74	4.75 [b]	117		ug/kg	
AR1248-C	2	5.96	5.96 [b]	93.9		ug/kg	
AR1248-D	1	5.03	5.03 [b]	101		ug/kg	
AR1248-D	2	6.34	6.35 [b]	122		ug/kg	
AR1248-E	1	5.15	5.15 [b]	155		ug/kg	
AR1248-E	2	6.52	6.53 [b]	154		ug/kg	
Aroclor 1260	1 [a]			146		ug/kg	19.8
Aroclor 1260	2			178		ug/kg	
AR1260-B	1	7.62	7.62	137		ug/kg	
AR1260-B	2	9.09	9.08	204		ug/kg	
AR1260-C	1	7.96	7.96	124		ug/kg	
AR1260-C	2	9.52	9.52	173		ug/kg	
AR1260-D	1	8.40	8.40	176		ug/kg	
AR1260-D	2	9.86	9.86	157		ug/kg	
Aroclor 1262	1			109		ug/kg	36.7
Aroclor 1262	2 [a]			158		ug/kg	
AR1262-B	1	7.62	7.62 [c]	91.7		ug/kg	
AR1262-B	2	9.09	9.09 [c]	132		ug/kg	
AR1262-C	1	7.96	7.96 [c]	95.3		ug/kg	
AR1262-C	2	9.52	9.53 [c]	218		ug/kg	
AR1262-D	1	8.40	8.39 [c]	141		ug/kg	
AR1262-D	2	9.86	9.87 [c]	124		ug/kg	

(a) QC results reported from this column.
(b) StdRT taken from init cal: GRK339-IC339 RK13418.D 07/25/22 20:41
(c) StdRT taken from init cal: GRK339-IC339 RK13416.D 07/25/22 20:08

GC Identification Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GRK355-CC339	**Injection Date:**	08/12/22
Lab File ID:	RK14351.D	**Injection Time:**	01:20
Instrument ID:	GCRK	**Method:**	SW846 8082A

Sample ID:	OP41180-MSD	**Injection Date:**	08/12/22
Lab File ID:	RK14356.D	**Injection Time:**	02:42
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			119		ug/kg	19.2
Aroclor 1016	2			98.2		ug/kg	
AR1016-B	1	3.76	3.76	102		ug/kg	
AR1016-B	2	4.85	4.85	84.1		ug/kg	
AR1016-D	1	4.50	4.51	147		ug/kg	
AR1016-D	2	5.68	5.68	81.7		ug/kg	
AR1016-E	1	5.03	5.04	106		ug/kg	
AR1016-E	2	6.35	6.35	129		ug/kg	
Aroclor 1248	1 [a]			151		ug/kg	14.2
Aroclor 1248	2			131		ug/kg	
AR1248-A	1	3.76	3.76 [b]	272		ug/kg	
AR1248-A	2	4.85	4.85 [b]	214		ug/kg	
AR1248-C	1	4.74	4.75 [b]	121		ug/kg	
AR1248-C	2	5.96	5.96 [b]	102		ug/kg	
AR1248-D	1	5.03	5.03 [b]	83.6		ug/kg	
AR1248-D	2	6.35	6.35 [b]	98.3		ug/kg	
AR1248-E	1	5.15	5.15 [b]	125		ug/kg	
AR1248-E	2	6.52	6.53 [b]	109		ug/kg	
Aroclor 1260	1 [a]			107		ug/kg	47.1
Aroclor 1260	2			173		ug/kg	
AR1260-B	1	7.62	7.62	103		ug/kg	
AR1260-B	2	9.09	9.08	263		ug/kg	
AR1260-C	1	7.96	7.96	92.3		ug/kg	
AR1260-C	2	9.52	9.52	141		ug/kg	
AR1260-D	1	8.40	8.40	127		ug/kg	
AR1260-D	2	9.86	9.86	116		ug/kg	
Aroclor 1262	1			80.4		ug/kg	38.7
Aroclor 1262	2 [a]			119		ug/kg	
AR1262-B	1	7.62	7.62 [c]	68.7		ug/kg	
AR1262-B	2	9.09	9.09 [c]	171		ug/kg	
AR1262-C	1	7.96	7.96 [c]	70.8		ug/kg	
AR1262-C	2	9.52	9.53 [c]	96.2		ug/kg	
AR1262-D	1	8.40	8.39 [c]	102		ug/kg	
AR1262-D	2	9.86	9.87 [c]	91.3		ug/kg	

(a) QC results reported from this column.
(b) StdRT taken from init cal: GRK339-IC339 RK13418.D 07/25/22 20:41
(c) StdRT taken from init cal: GRK339-IC339 RK13416.D 07/25/22 20:08

Surrogate Recovery Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD49400-1	RK14624.D	103	28	74	65
OP41180-BS1	RK14354.D	80	89	78	85
OP41180-MB1	RK14353.D	60	67	58	65
OP41180-MB1	RK14686.D	54	54	32	41
OP41180-MS	RK14355.D	56	49	55	150
OP41180-MSD	RK14356.D	53	47	46	112

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-163%
S2 = Decachlorobiphenyl	10-215%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Method: SW846 8015D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
JD49400-1	2Y109595.D	87	425* [b]
JD49400-1	2Y109626.D	615* [b]	131* [b]
OP41170-BS1	2Y109591.D	24	26
OP41170-BSD	2Y109592.D	39	42
OP41170-MB1	2Y109590.D	31	38
OP41170-MB1	2Z87591.D	35	40
OP41170-MS	2Z87593.D	36	37
OP41170-MSD	2Z87594.D	55	56

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	10-124%
S2 = 5a-Androstane	15-129%

(a) Recovery from GC signal #1
(b) Outside control limits due to matrix interference.

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GRK355-CC339	**Injection Date:**	08/12/22
Lab File ID:	RK14351.D	**Injection Time:**	01:20
Instrument ID:	GCRK	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.94	3.62	10.34	12.09

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP41180-MB1	RK14353.D	08/12/22	01:52	2.94	3.62	10.34	12.08
OP41180-BS1	RK14354.D	08/12/22	02:09	2.94	3.62	10.34	12.09
OP41180-MS	RK14355.D	08/12/22	02:25	2.95	3.62	10.34	12.09
OP41180-MSD	RK14356.D	08/12/22	02:42	2.95	3.62	10.34	12.09
JD49450-1	RK14357.D	08/12/22	02:58	2.94	3.62	10.34	12.09
ZZZZZZ	RK14358.D	08/12/22	03:15	2.95	3.62	10.34	12.09
ZZZZZZ	RK14359.D	08/12/22	03:31	2.95	3.62	10.34	12.08
GRK355-ECC339	RK14362.D	08/12/22	04:21	2.95	3.62	10.34	12.08

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GRK359-CC339	**Injection Date:**	08/16/22
Lab File ID:	RK14621.D	**Injection Time:**	18:46
Instrument ID:	GCRK	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.95	3.62	10.35	12.08

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JD49698-1	RK14623.D	08/16/22	19:19	2.95	3.62	10.34	12.09
JD49400-1	RK14624.D	08/16/22	19:35	2.97	3.63	10.33	12.09
ZZZZZZ	RK14625.D	08/16/22	19:52	2.95	3.62	10.35	12.08

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	GRK361-CC339	**Injection Date:**	08/17/22
Lab File ID:	RK14679.D	**Injection Time:**	11:12
Instrument ID:	GCRK	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.93	3.61	10.35	12.08

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	RK14681.D	08/17/22	12:11	2.94	3.61	10.35	12.09
ZZZZZZ	RK14682.D	08/17/22	12:27	2.95	3.62	10.35	12.10
ZZZZZZ	RK14683.D	08/17/22	12:44	2.94	3.62	10.35	12.08
ZZZZZZ	RK14684.D	08/17/22	13:00	2.94	3.62	10.34	12.09
JD49740-1	RK14685.D	08/17/22	13:17	2.95	3.62	10.35	12.09
OP41180-MB1	RK14686.D	08/17/22	13:33	2.94	3.62	10.35	12.08

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	G2Y4272-CC4195	**Injection Date:**	08/10/22
Lab File ID:	2Y109587.D	**Injection Time:**	15:10
Instrument ID:	GC2Y	**Method:**	SW846 8015D

	S1 [a] RT	S2 [a] RT
Check Std	9.53	10.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT
G2Y4272-RT	2Y109588.D	08/10/22	16:04		
OP41170-MB1	2Y109590.D	08/10/22	18:16	9.54	10.24
OP41170-BS1	2Y109591.D	08/10/22	18:49	9.53	10.23
OP41170-BSD	2Y109592.D	08/10/22	19:23	9.53	10.23
ZZZZZZ	2Y109593.D	08/10/22	23:01	9.54	10.24
ZZZZZZ	2Y109594.D	08/10/22	23:34	9.53	10.23
JD49400-1	2Y109595.D	08/11/22	00:07	9.50	10.21
ZZZZZZ	2Y109596.D	08/11/22	00:41	9.53	10.23

Surrogate Compounds

S1 = o-Terphenyl
S2 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	G2Y4273-CC4195	**Injection Date:**	08/14/22
Lab File ID:	2Y109607.D	**Injection Time:**	11:33
Instrument ID:	GC2Y	**Method:**	SW846 8015D

	S1 [a] RT	S2 [a] RT
Check Std	9.53	10.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT
G2Y4273-RT	2Y109609.D	08/14/22	13:13		
OP41225-MB1	2Y109610.D	08/14/22	13:47	9.54	10.24
OP41225-BS1	2Y109611.D	08/14/22	14:20	9.54	10.24
OP41225-BSD	2Y109612.D	08/14/22	14:53	9.54	10.23
JD49622-1	2Y109613.D	08/14/22	15:26	9.53	10.23
OP41225-MS	2Y109614.D	08/14/22	16:00	9.54	10.24
OP41225-MSD	2Y109615.D	08/14/22	16:33	9.53	10.23
ZZZZZZ	2Y109616.D	08/14/22	17:06	9.53	10.23
ZZZZZZ	2Y109617.D	08/14/22	17:39	9.54	10.23

Surrogate Compounds

S1 = o-Terphenyl
S2 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	G2Y4273-CC4195	**Injection Date:**	08/14/22
Lab File ID:	2Y109618.D	**Injection Time:**	18:12
Instrument ID:	GC2Y	**Method:**	SW846 8015D

	S1 [a] RT	S2 [a] RT
Check Std	9.53	10.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT
ZZZZZZ	2Y109620.D	08/14/22	19:19	9.53	10.23
ZZZZZZ	2Y109621.D	08/14/22	19:52	9.53	10.23
ZZZZZZ	2Y109622.D	08/14/22	20:26	9.53	10.23
ZZZZZZ	2Y109623.D	08/14/22	20:59	9.53	10.23
ZZZZZZ	2Y109624.D	08/14/22	21:32	9.53	10.23
ZZZZZZ	2Y109625.D	08/14/22	22:05	9.53	10.23
JD49400-1	2Y109626.D	08/14/22	22:39	9.53	10.28

Surrogate Compounds

S1 = o-Terphenyl
S2 = 5a-Androstane

(a) Retention time from GC signal #1

8.7.6

8

GC Surrogate Retention Time Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	G2Z3372-CC3259	**Injection Date:**	08/10/22
Lab File ID:	2Z87587.D	**Injection Time:**	15:10
Instrument ID:	GC2Z	**Method:**	SW846 8015D

	S1 [a] RT	S2 [a] RT
Check Std	9.27	9.95

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT
G2Z3372-RT	2Z87589.D	08/10/22	16:38		
ZZZZZZ	2Z87590.D	08/10/22	18:16	9.27	9.96
OP41170-MB1	2Z87591.D	08/10/22	18:49	9.27	9.95
JD49405-1	2Z87592.D	08/10/22	19:23	9.27	9.95
OP41170-MS	2Z87593.D	08/10/22	23:01	9.27	9.95
OP41170-MSD	2Z87594.D	08/10/22	23:34	9.27	9.96
ZZZZZZ	2Z87595.D	08/11/22	00:07	9.27	9.95
ZZZZZZ	2Z87596.D	08/11/22	00:41	9.27	9.95

Surrogate Compounds

S1 = o-Terphenyl
S2 = 5a-Androstane

(a) Retention time from GC signal #1

8.7.7

8

Initial Calibration Summary

Job Number: JD49400 **Sample:** G2Y4195-ICC4195
Account: TTCOD Tetra Tech **Lab FileID:** 2Y107731.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Response Factor Report HP G1530A

Method : C:\msdchem\1\METHODS\DRO2Y4195.M (ChemStation Integrator)
Title :
Last Update : Wed Mar 16 17:09:54 2022
Response via : Initial Calibration

Calibration Files
250 =2y107729.D 500 =2y107730.D 1000=2y107731.D 2500=2y107732.D
5000=2y107733.D 100 =2y107728.D 10k =2y107734.D 50k =2y107735.D 25 =2y107726.D 50 =2y107727.D

Compound	250	500	1000	2500	5000	100	10k	50k	25	50	Avg	%RSD
1) TPH-DRO	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
2) TPH-DRO (C10	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
3) TPH (C12-C40	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
4) TPH-ORO (>C2	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
5) TPH-HRO (C18	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
6) TPH-DRO (C10	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
7) TPH-ORO (C20	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
8) TPH-DRO (C9-	6.122	6.449	6.232	6.262	6.285	6.032	6.034	5.927	6.746	6.085	6.217 E5	3.86
9) o-Terphenyl	1.093	1.127	1.077	1.070	1.087	1.088			1.130	1.114	1.098 E6	2.07
10) 5a-Androstan	7.358	7.500	7.413	7.458	7.614	7.354			7.745	7.499	7.492 E5	1.77
11) Tetracosane-											0.000	-1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

DRO2Y4195.M Wed Mar 16 17:11:56 2022

Initial Calibration Verification

Job Number: JD49400 **Sample:** G2Y4195-ICV4195
Account: TTCOD Tetra Tech **Lab FileID:** 2Y107736.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G2y4195\2y107736.D         Vial: 16
Acq On    : 15 Mar 2022  11:56 pm                    Operator: thomasl
Sample    : icv4195-1000                             Inst    : HP G1530A
Misc      : op38304,g2y4195,10.0,,,1,1               Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\msdchem\1\METHODS\DRO2Y4195.M (ChemStation Integrator)
Title        :
Last Update  : Wed Mar 16 17:09:54 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	621.732	538.170 E3	13.4	86	0.00	3.67-13.19
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH (C12-C40)		----------NA----------				
4	H	TPH-ORO (>C28-C40)		----------NA----------				
5	H	TPH-HRO (C18-C36)		----------NA----------				
6	H	TPH-DRO (C10-C20)		----------NA----------				
7	H	TPH-ORO (C20-C34)		----------NA----------				
8	H	TPH-DRO (C9-C16)		----------NA----------				
9	S	o-Terphenyl		----------NA----------				
10	S	5a-Androstane		----------NA----------				
11	S	Tetracosane-d50		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2y107731.D DRO2Y4195.M Wed Mar 16 17:11:47 2022

8.8.2

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** G2Y4272-CC4195
Account: TTCOD Tetra Tech **Lab FileID:** 2Y109587.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
                    Evaluate Continuing Calibration Report

 Data File : C:\msdchem\1\data\tr...nl\g2y4272\2y109587.d Vial: 3
 Acq On    : 10 Aug 2022   3:10 pm                    Operator: thomasl
 Sample    : cc4195-500                               Inst    : HP G1530A
 Misc      : op41139,g2y4272,10.0,,,1,1               Multiplr: 1.00
 IntFile   : autoint1.e

 Method       : C:\MSDCHEM\1\METHODS\dro2y4195.m (ChemStation Integrator)
 Title        :
 Last Update  : Thu Aug 11 03:39:31 2022
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 H   TPH-DRO                621.732 605.337 E3   2.6   94   0.00    3.67-13.19
 2 H   TPH-DRO (C10-C44)                ----------NA----------
 3 H   TPH (C12-C40)                    ----------NA----------
 4 H   TPH-ORO (>C28-C40)               ----------NA----------
 5 H   TPH-HRO (C18-C36)                ----------NA----------
 6 H   TPH-DRO (C10-C20)                ----------NA----------
 7 H   TPH-ORO (C20-C34)                ----------NA----------
 8 H   TPH-DRO (C9-C16)                 ----------NA----------
 9 S   o-Terphenyl              1.098   1.062 E6   3.3   94   0.00    9.50- 9.56
10 S   5a-Androstane          749.248 689.494 E3   8.0   92   0.00   10.20-10.26
11 S   Tetracosane-d50                 ----------NA----------
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2y107730.D dro2y4195.m       Thu Aug 11 03:41:50 2022
```

8.8.3

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** G2Y4272-CC4195
Account: TTCOD Tetra Tech **Lab FileID:** 2Y109598.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
                    Evaluate Continuing Calibration Report

 Data File : C:\msdchem\1\data\tr...nl\g2y4272\2y109598.d Vial: 4
 Acq On    : 11 Aug 2022   1:48 am                    Operator: thomasl
 Sample    : cc4195-1000                              Inst    : HP G1530A
 Misc      : op41170,g2y4272,10.0,,,1,1               Multiplr: 1.00
 IntFile   : autoint1.e

 Method       : C:\MSDCHEM\1\METHODS\dro2y4195.m (ChemStation Integrator)
 Title        :
 Last Update  : Thu Aug 11 03:39:31 2022
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 H   TPH-DRO                621.732 596.818 E3   4.0   96   0.00    3.67-13.19
 2 H   TPH-DRO (C10-C44)                 ----------NA----------
 3 H   TPH (C12-C40)                     ----------NA----------
 4 H   TPH-ORO (>C28-C40)                ----------NA----------
 5 H   TPH-HRO (C18-C36)                 ----------NA----------
 6 H   TPH-DRO (C10-C20)                 ----------NA----------
 7 H   TPH-ORO (C20-C34)                 ----------NA----------
 8 H   TPH-DRO (C9-C16)                  ----------NA----------
 9 S   o-Terphenyl              1.098   1.050 E6   4.4   97   0.00    9.50- 9.56
10 S   5a-Androstane          749.248 680.434 E3   9.2   92   0.00   10.20-10.27
11 S   Tetracosane-d50                  ----------NA----------
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2y107731.D dro2y4195.m       Thu Aug 11 04:38:13 2022
```

8.8.4

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** G2Y4273-CC4195
Account: TTCOD Tetra Tech **Lab FileID:** 2Y109607.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
                    Evaluate Continuing Calibration Report

 Data File : C:\msdchem\1\data\syrap\g2y4273\2y109607.d   Vial: 4
 Acq On    : 14 Aug 2022  11:33 am                    Operator: thomasl
 Sample    : cc4195-1000                              Inst    : HP G1530A
 Misc      : op41170,g2y4273,10.0,,,1,1               Multiplr: 1.00
 IntFile   : autoint1.e

 Method       : C:\MSDCHEM\1\METHODS\DRO2Y4195.M (ChemStation Integrator)
 Title        :
 Last Update  : Mon Aug 15 06:14:25 2022
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 H   TPH-DRO                621.732 575.180 E3   7.5   92   0.00    3.67-13.19
 2 H   TPH-DRO (C10-C44)                ----------NA----------
 3 H   TPH (C12-C40)                    ----------NA----------
 4 H   TPH-ORO (>C28-C40)               ----------NA----------
 5 H   TPH-HRO (C18-C36)                ----------NA----------
 6 H   TPH-DRO (C10-C20)                ----------NA----------
 7 H   TPH-ORO (C20-C34)                ----------NA----------
 8 H   TPH-DRO (C9-C16)                 ----------NA----------
 9 S   o-Terphenyl              1.098   1.009 E6   8.1   94   0.00    9.50- 9.56
10 S   5a-Androstane          749.248 665.334 E3  11.2   90   0.00   10.20-10.26
11 S   Tetracosane-d50                 ----------NA----------
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2y109463.d DRO2Y4195.M       Mon Aug 15 06:15:58 2022
```

Continuing Calibration Summary

Job Number: JD49400 **Sample:** G2Y4273-CC4195
Account: TTCOD Tetra Tech **Lab FileID:** 2Y109618.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\syrap\g2y4273\2y109618.d   Vial: 3
Acq On    : 14 Aug 2022   6:12 pm                    Operator: thomasl
Sample    : cc4195-500                               Inst    : HP G1530A
Misc      : op41225,g2y4273,10.0,,,1,1               Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\MSDCHEM\1\METHODS\dro2y4195.m (ChemStation Integrator)
Title        :
Last Update  : Mon Aug 15 06:14:25 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	621.732	582.148 E3	6.4	90	0.00	3.67-13.19
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH (C12-C40)		----------NA----------				
4	H	TPH-ORO (>C28-C40)		----------NA----------				
5	H	TPH-HRO (C18-C36)		----------NA----------				
6	H	TPH-DRO (C10-C20)		----------NA----------				
7	H	TPH-ORO (C20-C34)		----------NA----------				
8	H	TPH-DRO (C9-C16)		----------NA----------				
9	S	o-Terphenyl	1.098	1.016 E6	7.5	90	0.00	9.50- 9.56
10	S	5a-Androstane	749.248	668.892 E3	10.7	89	0.00	10.20-10.26
11	S	Tetracosane-d50		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2y109607.d dro2y4195.m Mon Aug 15 06:27:45 2022

8.8.6

Continuing Calibration Summary

Job Number: JD49400 **Sample:** G2Y4273-CC4195
Account: TTCOD Tetra Tech **Lab FileID:** 2Y109628.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
                    Evaluate Continuing Calibration Report

 Data File : C:\msdchem\1\data\syrap\g2y4273\2y109628.d   Vial: 4
 Acq On    : 14 Aug 2022  11:45 pm                    Operator: thomasl
 Sample    : cc4195-1000                              Inst    : HP G1530A
 Misc      : op41225,g2y4273,10.0,,,1,1               Multiplr: 1.00
 IntFile   : autoint1.e

 Method       : C:\MSDCHEM\1\METHODS\dro2y4195.m (ChemStation Integrator)
 Title        :
 Last Update  : Mon Aug 15 06:14:25 2022
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 H   TPH-DRO                621.732 574.520 E3   7.6   92   0.00    3.67-13.19
 2 H   TPH-DRO (C10-C44)                ----------NA----------
 3 H   TPH (C12-C40)                    ----------NA----------
 4 H   TPH-ORO (>C28-C40)               ----------NA----------
 5 H   TPH-HRO (C18-C36)                ----------NA----------
 6 H   TPH-DRO (C10-C20)                ----------NA----------
 7 H   TPH-ORO (C20-C34)                ----------NA----------
 8 H   TPH-DRO (C9-C16)                 ----------NA----------
 9 S   o-Terphenyl              1.098   1.001 E6   8.8   93   0.00    9.50- 9.56
10 S   5a-Androstane          749.248 656.056 E3  12.4   89   0.00   10.20-10.26
11 S   Tetracosane-d50                 ----------NA----------
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2y109463.d dro2y4195.m       Mon Aug 15 06:35:03 2022
```

8.8.7

8

Initial Calibration Summary

Job Number: JD49400 **Sample:** G2Z3259-ICC3259
Account: TTCOD Tetra Tech **Lab FileID:** 2Z84957.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Response Factor Report HP G1530A

Method : C:\msdchem\1\METHODS\DRO2Z3259.M (ChemStation Integrator)
Title :
Last Update : Wed Nov 24 12:20:05 2021
Response via : Initial Calibration

Calibration Files
250 =2z84955.D 500 =2z84956.D 1000=2z84957.D 2500=2z84959b.D
5000=2z84959.D 100 =2z84954.D 10k =2z84960.D 50k =2z84961.D 25 =2z84952.D 50 =2z84959a.D

Compound	250	500	1000	2500	5000	100	10k	50k	25	50	Avg	%RSD
1) TPH-DRO	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
2) TPH-DRO (C10	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
3) TPH (C12-C40	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
4) TPH-ORO (>C2	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
5) TPH-HRO (C18	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
6) TPH-DRO (C10	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
7) TPH-ORO (C20	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
8) TPH-DRO (C9-	1.520	1.482	1.451	1.430	1.425	1.617	1.389	1.395	2.188	1.713	1.561 E6	15.58
9) o-Terphenyl	2.594	2.575	2.536	2.526	2.499	2.603			2.620	2.562	2.565 E6	1.63
10) 5a-Androstan	1.861	1.859	1.846	1.823	1.848	1.880			1.833	1.834	1.848 E6	0.99
11) Tetracosane-											0.000	-1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

DRO2Z3259.M Wed Nov 24 12:24:41 2021

Initial Calibration Verification

Job Number: JD49400 **Sample:** G2Z3259-ICV3259
Account: TTCOD Tetra Tech **Lab FileID:** 2Z84962.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G2Z3259\2z84962.D          Vial: 66
Acq On    : 23 Nov 2021   7:35 pm                    Operator: thomasl
Sample    : icv3259-1000                             Inst    : HP G1530A
Misc      : op23322,g2z3259,10.0,,,1,1               Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\msdchem\1\METHODS\DRO2Z3259.M (ChemStation Integrator)
Title        :
Last Update  : Wed Nov 24 12:20:05 2021
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.561	1.321 E6	15.4	91	0.00	3.50-13.00
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH (C12-C40)		----------NA----------				
4	H	TPH-ORO (>C28-C40)		----------NA----------				
5	H	TPH-HRO (C18-C36)		----------NA----------				
6	H	TPH-DRO (C10-C20)		----------NA----------				
7	H	TPH-ORO (C20-C34)		----------NA----------				
8	H	TPH-DRO (C9-C16)		----------NA----------				
9	S	o-Terphenyl		----------NA----------				
10	S	5a-Androstane		----------NA----------				
11	S	Tetracosane-d50		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2z84957.D DRO2Z3259.M Wed Nov 24 12:24:32 2021

Continuing Calibration Summary

Job Number: JD49400 **Sample:** G2Z3372-CC3259
Account: TTCOD Tetra Tech **Lab FileID:** 2Z87587.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\syrap\g2z3372\2z87587.d    Vial: 4
Acq On    : 10 Aug 2022   3:10 pm                    Operator: thomasl
Sample    : cc3259-1000                              Inst    : HP G1530A
Misc      : op41078,g2z3372,10.0,,,1,1               Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\msdchem\1\METHODS\dro2z3259.m (ChemStation Integrator)
Title        :
Last Update  : Thu Aug 11 03:32:16 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.561	1.526 E6	2.2	105	0.00	3.50-13.00
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH (C12-C40)		----------NA----------				
4	H	TPH-ORO (>C28-C40)		----------NA----------				
5	H	TPH-HRO (C18-C36)		----------NA----------				
6	H	TPH-DRO (C10-C20)		----------NA----------				
7	H	TPH-ORO (C20-C34)		----------NA----------				
8	H	TPH-DRO (C9-C16)		----------NA----------				
9	S	o-Terphenyl	2.565	2.703 E6	-5.4	107	0.00	9.24- 9.30
10	S	5a-Androstane	1.848	1.876 E6	-1.5	102	0.00	9.92- 9.98
11	S	Tetracosane-d50		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2z85034.d dro2z3259.m Thu Aug 11 04:08:28 2022

8.8.10

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** G2Z3372-CC3259
Account: TTCOD Tetra Tech **Lab FileID:** 2Z87598.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\syrap\g2z3372\2z87598.d    Vial: 3
Acq On    : 11 Aug 2022   1:48 am                    Operator: thomasl
Sample    : cc3259-500                               Inst    : HP G1530A
Misc      : op41170,g2z3372,10.0,,,1,1               Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\msdchem\1\METHODS\dro2z3259.m (ChemStation Integrator)
Title        :
Last Update  : Thu Aug 11 03:32:16 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.561	1.550 E6	0.7	105	0.00	3.50-13.00
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH (C12-C40)		----------NA----------				
4	H	TPH-ORO (>C28-C40)		----------NA----------				
5	H	TPH-HRO (C18-C36)		----------NA----------				
6	H	TPH-DRO (C10-C20)		----------NA----------				
7	H	TPH-ORO (C20-C34)		----------NA----------				
8	H	TPH-DRO (C9-C16)		----------NA----------				
9	S	o-Terphenyl	2.565	2.832 E6	-10.4	110	0.00	9.23- 9.29
10	S	5a-Androstane	1.848	1.904 E6	-3.0	102	0.00	9.92- 9.98
11	S	Tetracosane-d50		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2z87587.d dro2z3259.m Thu Aug 11 04:05:40 2022

8.8.11

8

Initial Calibration Summary

Job Number: JD49400 **Sample:** GRK339-ICC339
Account: TTCOD Tetra Tech **Lab FileID:** RK13410.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Response Factor Report GCRK

Method : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title :
Last Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration

Calibration Files
50 =rk13407.d 250 =rk13408.d 500 =rk13409.d 1000=rk13410.d
2000=rk13411.d 3000=rk13412.d 5000=rk13413.d 10k =rk13414.d

Compound	50	250	500	1000	2000	3000	5000	10k	Avg	%RSD
1) Tetrachloro-		3.322	3.493	3.541	3.537	3.419	3.333		3.441 E7	2.85
2) AR1221-A				1.980					1.980 E5	0.00
3) AR1221-B				3.485					3.485 E5	0.00
4) AR1221-C				1.007					1.007 E6	0.00
5) AR1221-D				1.862					1.862 E5	0.00
6) AR1221-E				2.322					2.322 E5	0.00
7) AR1232-A				8.150					8.150 E5	0.00
8) AR1232-B				5.590					5.590 E5	0.00
9) AR1232-C				1.229					1.229 E6	0.00
10) AR1232-D				4.557					4.557 E5	0.00
11) AR1232-E				4.288					4.288 E5	0.00
12) AR1242-A				9.091					9.091 E5	0.00
13) AR1242-B				2.146					2.146 E6	0.00
14) AR1242-C				7.948					7.948 E5	0.00
15) AR1242-D				8.239					8.239 E5	0.00
16) AR1242-E				6.791					6.791 E5	0.00
17) AR1248-A				4.259					4.259 E5	0.00
18) AR1248-B				1.258					1.258 E6	0.00
19) AR1248-C				1.400					1.400 E6	0.00
20) AR1248-D				1.292					1.292 E6	0.00
21) AR1248-E				7.202					7.202 E5	0.00
22) AR1248-F				1.092					1.092 E6	0.00
23) AR1248-G				9.679					9.679 E5	0.00
24) AR1254-A				9.974					9.974 E5	0.00
25) AR1254-B				2.063					2.063 E6	0.00
26) AR1254-C				1.085					1.085 E6	0.00
27) AR1254-D				1.933					1.933 E6	0.00
28) AR1254-E				1.601					1.601 E6	0.00
29) AR1254-F				1.418					1.418 E6	0.00
30) AR1254-G				2.094					2.094 E6	0.00
31) AR1016-A	8.408	6.920	6.832	6.542	6.299	5.953	5.604	5.132	6.461 E5	15.40
32) AR1016-B	1.319	1.238	1.220	1.172	1.130	1.073	1.002	0.908	1.133 E6	11.85
33) AR1016-C	2.863	2.893	2.872	2.805	2.755	2.639	2.487	2.251	2.696 E6	8.40
34) AR1016-D	1.092	1.081	1.057	1.026	1.010	0.969	0.917	0.837	0.999 E6	8.76
35) AR1016-E	1.096	1.102	1.060	1.036	1.025	0.995	0.953	0.884	1.019 E6	7.22
36) AR1260-A	2.573	2.423	2.364	2.319	2.290	2.211	2.086	1.874	2.268 E6	9.44
37) AR1260-B	1.921	1.847	1.769	1.732	1.728	1.683	1.607	1.488	1.722 E6	7.84
38) AR1260-C	1.670	1.686	1.593	1.549	1.540	1.498	1.432	1.325	1.537 E6	7.80
39) AR1260-D	4.054	4.099	4.163	4.105	4.047	3.881	3.637	3.234	3.902 E6	8.16
40) AR1260-E	4.526	4.158	4.211	4.165	4.163	4.076	3.934	3.687	4.115 E6	5.83
41) AR1262-A				1.757					1.757 E6	0.00
42) AR1262-B				2.575					2.575 E6	0.00
43) AR1262-C				2.003					2.003 E6	0.00
44) AR1262-D				4.885					4.885 E6	0.00
45) AR1262-E				5.653					5.653 E6	0.00
46) AR1268-A				5.698					5.698 E6	0.00
47) AR1268-B				5.040					5.040 E6	0.00

Initial Calibration Summary

Job Number: JD49400 **Sample:** GRK339-ICC339
Account: TTCOD Tetra Tech **Lab FileID:** RK13410.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

48)	AR1268-C			4.427					4.427	E6	0.00
49)	AR1268-D			1.841					1.841	E6	0.00
50)	AR1268-E			1.243					1.243	E7	0.00
51)	Decachlorobi	3.793	3.624	3.478	3.397	3.432	3.347	3.211	3.009	3.411 E7	7.03

Signal #2

1)	Tetrachloro-		9.730	9.671	9.526	9.569	9.300	8.997		9.465 E7	2.89
2)	AR1221-A				4.101					4.101 E5	0.00
3)	AR1221-B				9.724					9.724 E5	0.00
4)	AR1221-C				2.166					2.166 E6	0.00
5)	AR1221-D				5.077					5.077 E5	0.00
6)	AR1221-E				6.918					6.918 E5	0.00
7)	AR1232-A				1.768					1.768 E6	0.00
8)	AR1232-B				1.568					1.568 E6	0.00
9)	AR1232-C				3.384					3.384 E6	0.00
10)	AR1232-D				1.300					1.300 E6	0.00
11)	AR1232-E				9.485					9.485 E5	0.00
12)	AR1242-A				2.529					2.529 E6	0.00
13)	AR1242-B				5.758					5.758 E6	0.00
14)	AR1242-C				2.188					2.188 E6	0.00
15)	AR1242-D				1.804					1.804 E6	0.00
16)	AR1242-E				2.264					2.264 E6	0.00
17)	AR1248-A				1.258					1.258 E6	0.00
18)	AR1248-B				3.657					3.657 E6	0.00
19)	AR1248-C				2.221					2.221 E6	0.00
20)	AR1248-D				2.902					2.902 E6	0.00
21)	AR1248-E				3.263					3.263 E6	0.00
22)	AR1248-F				3.979					3.979 E6	0.00
23)	AR1248-G				3.858					3.858 E6	0.00
24)	AR1254-A				3.443					3.443 E6	0.00
25)	AR1254-B				3.781					3.781 E6	0.00
26)	AR1254-C				3.117					3.117 E6	0.00
27)	AR1254-D				5.980					5.980 E6	0.00
28)	AR1254-E				4.408					4.408 E6	0.00
29)	AR1254-F				4.851					4.851 E6	0.00
30)	AR1254-G				4.650					4.650 E6	0.00
31)	AR1016-A	1.702	1.635	1.617	1.488	1.380	1.328	1.148	1.027	1.416 E6	17.04
32)	AR1016-B	4.019	3.764	3.640	3.373	3.137	2.938	2.494	2.281	3.206 E6	19.11
33)	AR1016-C	8.963	8.017	7.804	7.419	7.043	6.617	5.970	5.130	7.121 E6	17.03
34)	AR1016-D	3.271	3.200	2.970	2.815	2.677	2.523	2.299	2.007	2.720 E6	16.03
35)	AR1016-E	2.515	2.551	2.383	2.277	2.211	2.096	1.955	1.743	2.216 E6	12.53
36)	AR1260-A	5.334	5.006	5.062	4.871	4.775	4.555	4.274	3.777	4.707 E6	10.52
37)	AR1260-B	4.280	3.943	3.958	3.858	3.833	3.708	3.529	3.215	3.791 E6	8.37
38)	AR1260-C	4.662	4.541	4.239	4.130	4.117	4.004	3.815	3.480	4.124 E6	9.17
39)	AR1260-D	9.825	9.649	9.544	9.456	9.332	8.952	8.315	5.685	8.845 E6	15.40
40)	AR1260-E	9.726	9.263	9.361	9.265	9.274	8.989	8.769	8.266	9.114 E6	4.84
41)	AR1262-A				4.065					4.065 E6	0.00
42)	AR1262-B				5.843					5.843 E6	0.00
43)	AR1262-C				5.190					5.190 E6	0.00
44)	AR1262-D				1.119					1.119 E7	0.00
45)	AR1262-E				1.280					1.280 E7	0.00
46)	AR1268-A				1.260					1.260 E7	0.00
47)	AR1268-B				1.243					1.243 E7	0.00
48)	AR1268-C				1.035					1.035 E7	0.00
49)	AR1268-D				4.364					4.364 E6	0.00
50)	AR1268-E				2.984					2.984 E7	0.00
51)	Decachlorobi	9.882	7.794	7.920	7.750	7.638	7.382	7.362	6.970	7.837 E7	11.23

(#) = Out of Range ### Number of calibration levels exceeded format ###

Initial Calibration Summary

Job Number: JD49400 **Sample:** GRK339-ICC339
Account: TTCOD Tetra Tech **Lab FileID:** RK13410.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

RKPCB339.M Tue Jul 26 23:12:32 2022

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13419.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\rk339\rk13419.d\ECD1A.ch   Vial: 92
Signal #2 : C:\msdchem\1\DATA\rk339\rk13419.d\ECD2B.ch
Acq On    : 25 Jul 2022   8:57 pm                    Operator: chorngli
Sample    : icv339-1000                              Inst    : GCRK
Misc      : op40458,grk339,16.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title        :
Last Update  : Tue Jul 26 23:06:43 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	40.909 E6	-18.9	116	0.00	2.91- 2.97
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	646.129	670.922 E3	-3.8	103	0.00	3.31- 3.37
32	AR1016-B	1.133	1.236 E6	-9.1	106	0.00	3.73- 3.79
33	AR1016-C	2.696	2.979 E6	-10.5	106	0.00	4.30- 4.36
34	AR1016-D	0.999	1.096 E6	-9.7	107	0.00	4.47- 4.53
35	AR1016-E	1.019	1.091 E6	-7.1	105	0.00	5.00- 5.06
36	AR1260-A	2.268	2.640 E6	-16.4	114	0.00	7.04- 7.10
37	AR1260-B	1.722	1.614 E6	6.3	93	0.00	7.59- 7.65
38	AR1260-C	1.537	1.488 E6	3.2	96	0.00	7.93- 7.99
39	AR1260-D	3.902	3.905 E6	-0.1	95	0.00	8.36- 8.42
40	AR1260-E	4.115	3.784 E6	8.0	91	0.00	8.71- 8.87
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13419.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	34.113	36.214 E6	-6.2	107	0.00	10.31-10.37	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	112.458 E6	-18.8	118	0.00	3.58- 3.64	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	1.416	1.532 E6	-8.2	103	0.00	4.26- 4.32	
32		AR1016-B	3.206	3.569 E6	-11.3	106	0.00	4.82- 4.88	
33		AR1016-C	7.121	7.893 E6	-10.8	106	0.00	5.46- 5.52	
34		AR1016-D	2.720	2.991 E6	-10.0	106	0.00	5.65- 5.71	
35		AR1016-E	2.216	2.402 E6	-8.4	105	0.00	6.32- 6.38	
36		AR1260-A	4.707	5.530 E6	-17.5	114	0.00	8.41- 8.47	
37		AR1260-B	3.791	3.666 E6	3.3	95	0.00	9.06- 9.12	
38		AR1260-C	4.124	4.184 E6	-1.5	101	0.00	9.49- 9.55	
39		AR1260-D	8.845	9.328 E6	-5.5	99	0.00	9.84- 9.90	
40		AR1260-E	9.114	8.781 E6	3.7	95	0.00	10.38-10.44	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13419.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  86.042 E6  -9.8  111   0.00   12.06-12.12
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13410.d  RKPCB339.M       Tue Jul 26 23:10:29 2022
```

8.8.13

8

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13420.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\rk339\rk13420.d\ECD1A.ch   Vial: 93
Signal #2 : C:\msdchem\1\DATA\rk339\rk13420.d\ECD2B.ch
Acq On    : 25 Jul 2022   9:14 pm                    Operator: chorngli
Sample    : icv339-1000                              Inst    : GCRK
Misc      : op40458,grk339,16.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title        :
Last Update  : Tue Jul 26 23:06:43 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	41.587 E6	-20.9#	117	0.00	2.91- 2.97
2	AR1221-A	197.953	215.037 E3	-8.6	109	0.00	2.30- 2.50
3	AR1221-B	348.526	343.930 E3	1.3	99	0.00	3.02- 3.22
4	AR1221-C	1.007	0.983 E6	2.4	98	0.00	3.23- 3.43
5	AR1221-D	186.181	156.972 E3	15.7	84	0.00	3.66- 3.86
6	AR1221-E	232.168	200.313 E3	13.7	86	0.00	4.23- 4.43
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	997.399	1065.398 E3	-6.8	107	0.00	5.04- 6.04
25	AR1254-B	2.063	2.199 E6	-6.6	107	0.00	5.79- 5.99
26	AR1254-C	1.085	1.162 E6	-7.1	107	0.00	6.16- 6.36
27	AR1254-D	1.933	2.058 E6	-6.5	106	0.00	6.33- 6.53
28	AR1254-E	1.601	1.691 E6	-5.6	106	0.00	6.71- 6.91
29	AR1254-F	1.418	1.538 E6	-8.5	108	0.00	6.97- 7.17
30	AR1254-G	2.094	2.256 E6	-7.7	108	0.00	7.35- 7.55
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13420.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	34.113	35.123 E6	-3.0	103	0.00	10.31-10.37	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	110.828 E6	-17.1	116	0.00	3.58- 3.64	
2		AR1221-A	410.143	435.044 E3	-6.1	106	0.00	2.94- 3.14	
3		AR1221-B	972.351	955.304 E3	1.8	98	0.00	3.91- 4.11	
4		AR1221-C	2.166	2.140 E6	1.2	99	0.00	4.19- 4.39	
5		AR1221-D	507.719	446.531 E3	12.1	88	0.00	4.74- 4.94	
6		AR1221-E	691.829	593.099 E3	14.3	86	0.00	5.39- 5.59	
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A	3.443	3.709 E6	-7.7	108	0.00	6.45- 7.45	
25		AR1254-B	3.781	4.036 E6	-6.7	107	0.00	7.10- 7.30	
26		AR1254-C	3.117	3.336 E6	-7.0	107	0.00	7.61- 7.81	
27		AR1254-D	5.980	6.380 E6	-6.7	107	0.00	7.78- 7.98	
28		AR1254-E	4.408	4.655 E6	-5.6	106	0.00	8.09- 8.29	
29		AR1254-F	4.851	5.249 E6	-8.2	108	0.00	8.61- 8.81	
30		AR1254-G	4.650	5.020 E6	-8.0	108	0.00	8.87- 9.07	
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13420.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  81.916 E6  -4.5  106   0.00   12.06-12.12
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13410.d  RKPCB339.M       Tue Jul 26 23:10:31 2022
```

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13421.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\rk339\rk13421.d\ECD1A.ch   Vial: 94
Signal #2 : C:\msdchem\1\DATA\rk339\rk13421.d\ECD2B.ch
Acq On    : 25 Jul 2022   9:30 pm                    Operator: chorngli
Sample    : icv339-1000                              Inst    : GCRK
Misc      : op40458,grk339,16.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title        :
Last Update  : Tue Jul 26 23:06:43 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	37.020 E6	-7.6	105	0.00	2.91- 2.97
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A	814.982	802.341 E3	1.6	98	0.00	3.24- 3.44
8	AR1232-B	558.965	558.135 E3	0.1	100	0.00	3.66- 3.86
9	AR1232-C	1.229	1.240 E6	-0.9	101	0.00	4.23- 4.43
10	AR1232-D	455.745	464.964 E3	-2.0	102	0.00	4.41- 4.61
11	AR1232-E	428.822	434.593 E3	-1.3	101	0.00	4.93- 5.13
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A	1.757	1.740 E6	1.0	99	0.00	6.97- 7.17

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13421.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B	2.575	2.561 E6	0.5	99	0.00	7.52- 7.72
43		AR1262-C	2.003	1.991 E6	0.6	99	0.00	7.86- 8.06
44		AR1262-D	4.885	4.855 E6	0.6	99	0.00	8.29- 8.49
45		AR1262-E	5.653	5.577 E6	1.3	99	0.00	8.74- 8.94
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				
48		AR1268-C		----------NA----------				
49		AR1268-D		----------NA----------				
50		AR1268-E		----------NA----------				
51	S	Decachlorobiphenyl	34.113	33.412 E6	2.1	98	0.00	10.31-10.37

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	99.601 E6	-5.2	105	0.00	3.59- 3.65
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A	1.768	1.768 E6	0.0	100	0.00	4.19- 4.39
8		AR1232-B	1.568	1.660 E6	-5.9	106	0.00	4.75- 4.95
9		AR1232-C	3.384	3.462 E6	-2.3	102	0.00	5.39- 5.59
10		AR1232-D	1.300	1.346 E6	-3.5	104	0.00	5.58- 5.78
11		AR1232-E	948.499	967.755 E3	-2.0	102	0.00	6.25- 6.45
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A		----------NA----------				
32		AR1016-B		----------NA----------				
33		AR1016-C		----------NA----------				
34		AR1016-D		----------NA----------				
35		AR1016-E		----------NA----------				
36		AR1260-A		----------NA----------				
37		AR1260-B		----------NA----------				
38		AR1260-C		----------NA----------				
39		AR1260-D		----------NA----------				
40		AR1260-E		----------NA----------				
41		AR1262-A	4.065	4.035 E6	0.7	99	0.00	8.34- 8.54
42		AR1262-B	5.843	5.804 E6	0.7	99	0.00	8.99- 9.19
43		AR1262-C	5.190	5.172 E6	0.3	100	0.00	9.43- 9.63
44		AR1262-D	11.187	11.125 E6	0.6	99	0.00	9.77- 9.97
45		AR1262-E	12.802	12.493 E6	2.4	98	0.00	10.29-10.49
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13421.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  75.903 E6   3.2   98   0.00   12.06-12.12
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13410.d  RKPCB339.M       Tue Jul 26 23:10:33 2022
```

8.8.15

8

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13422.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\rk339\rk13422.d\ECD1A.ch   Vial: 95
Signal #2 : C:\msdchem\1\DATA\rk339\rk13422.d\ECD2B.ch
Acq On    : 25 Jul 2022   9:47 pm                    Operator: chorngli
Sample    : icv339-1000                              Inst    : GCRK
Misc      : op40458,grk339,16.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title        :
Last Update  : Tue Jul 26 23:06:43 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	38.257 E6	-11.2	108	0.00	2.91- 2.97
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A	909.117	1057.913 E3	-16.4	116	0.00	3.66- 3.86
13	AR1242-B	2.146	2.487 E6	-15.9	116	0.00	4.23- 4.43
14	AR1242-C	794.765	917.993 E3	-15.5	116	0.00	4.40- 4.60
15	AR1242-D	823.871	929.543 E3	-12.8	113	0.00	4.93- 5.13
16	AR1242-E	679.131	745.070 E3	-9.7	110	0.00	5.53- 5.73
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13422.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A	5.698	5.867 E6	-3.0	103	0.00	8.74- 8.94	
47		AR1268-B	5.040	5.193 E6	-3.0	103	0.00	8.80- 9.00	
48		AR1268-C	4.427	4.606 E6	-4.0	104	0.00	9.07- 9.27	
49		AR1268-D	1.841	1.907 E6	-3.6	104	0.00	9.56- 9.76	
50		AR1268-E	12.431	12.857 E6	-3.4	103	0.00	9.97-10.17	
51	S	Decachlorobiphenyl	34.113	96.267 E6	-182.2#	283#	0.00	10.31-10.37	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	104.574 E6	-10.5	110	0.00	3.59- 3.65	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A	2.529	2.917 E6	-15.3	115	0.00	4.75- 4.95	
13		AR1242-B	5.758	6.614 E6	-14.9	115	0.00	5.39- 5.59	
14		AR1242-C	2.188	2.520 E6	-15.2	115	0.00	5.58- 5.78	
15		AR1242-D	1.804	2.046 E6	-13.4	113	0.00	6.25- 6.45	
16		AR1242-E	2.264	2.489 E6	-9.9	110	0.00	6.85- 7.05	
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A	12.603	12.887 E6	-2.3	102	0.00	10.29-10.49	
47		AR1268-B	12.434	12.657 E6	-1.8	102	0.00	10.36-10.56	

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13422.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

48		AR1268-C	10.353	10.709 E6	-3.4	103	0.00	10.74-10.94
49		AR1268-D	4.364	4.368 E6	-0.1	100	0.00	11.13-11.33
50		AR1268-E	29.836	30.183 E6	-1.2	101	0.00	11.61-11.81
51	S	Decachlorobiphenyl	78.372	221.381 E6	-182.5#	286#	0.00	12.06-12.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rk13410.d RKPCB339.M Tue Jul 26 23:10:35 2022

8.8.16

8

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13423.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\rk339\rk13423.d\ECD1A.ch   Vial: 96
Signal #2 : C:\msdchem\1\DATA\rk339\rk13423.d\ECD2B.ch
Acq On    : 25 Jul 2022  10:03 pm                    Operator: chorngli
Sample    : icv339-1000                              Inst    : GCRK
Misc      : op40458,grk339,16.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title        :
Last Update  : Tue Jul 26 23:06:43 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	35.834 E6	-4.1	101	0.00	2.91- 2.97
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A	425.924	451.910 E3	-6.1	106	0.00	3.66- 3.86
18	AR1248-B	1.258	1.327 E6	-5.5	105	0.00	4.23- 4.43
19	AR1248-C	1.400	1.481 E6	-5.8	106	0.00	4.65- 4.85
20	AR1248-D	1.292	1.358 E6	-5.1	105	0.00	4.93- 5.13
21	AR1248-E	720.186	763.609 E3	-6.0	106	0.00	5.05- 5.25
22	AR1248-F	1.092	1.157 E6	-6.0	106	0.00	5.53- 5.73
23	AR1248-G	967.916	1000.494 E3	-3.4	103	0.00	5.40- 6.40
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13423.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	34.113	32.653 E6	4.3	96	0.00	10.31-10.37	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	101.676 E6	-7.4	107	0.00	3.59- 3.65	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A	1.258	1.327 E6	-5.5	105	0.00	4.75- 4.95	
18		AR1248-B	3.657	3.849 E6	-5.3	105	0.00	5.39- 5.59	
19		AR1248-C	2.221	2.344 E6	-5.5	106	0.00	5.86- 6.06	
20		AR1248-D	2.902	3.068 E6	-5.7	106	0.00	6.25- 6.45	
21		AR1248-E	3.263	3.429 E6	-5.1	105	0.00	6.43- 6.63	
22		AR1248-F	3.979	4.240 E6	-6.6	107	0.00	6.85- 7.05	
23		AR1248-G	3.858	4.134 E6	-7.2	107	0.00	6.78- 7.78	
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Initial Calibration Verification

Job Number: JD49400 **Sample:** GRK339-ICV339
Account: TTCOD Tetra Tech **Lab FileID:** RK13423.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48     AR1268-C                          ----------NA----------
49     AR1268-D                          ----------NA----------
50     AR1268-E                          ----------NA----------
51 S   Decachlorobiphenyl      78.372  77.201 E6   1.5  100   0.00   12.06-12.12
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13410.d  RKPCB339.M       Tue Jul 26 23:10:37 2022
```

8.8.17

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK355-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14351.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\sy...55\rk14351.d\ECD1A.ch Vial: 7
Signal #2 : C:\msdchem\1\data\syrap\rk355\rk14351.d\ECD2B.ch
Acq On    : 12 Aug 2022   1:20 am                    Operator: chorngli
Sample    : cc339-1000                               Inst    : GCRK
Misc      : op41128,grk355,250,,,2,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\rkpcb339.m (ChemStation Integrator)
Title        :
Last Update  : Fri Aug 12 01:41:30 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	36.069 E6	-4.8	102	0.00	2.91- 2.97
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	646.129	657.562 E3	-1.8	101	0.00	3.31- 3.37
32	AR1016-B	1.133	1.168 E6	-3.1	100	0.00	3.73- 3.79
33	AR1016-C	2.696	2.832 E6	-5.0	101	0.00	4.30- 4.36
34	AR1016-D	0.999	1.043 E6	-4.4	102	0.00	4.48- 4.54
35	AR1016-E	1.019	1.057 E6	-3.7	102	0.00	5.01- 5.07
36	AR1260-A	2.268	2.256 E6	0.5	97	0.00	7.04- 7.10
37	AR1260-B	1.722	1.683 E6	2.3	97	0.00	7.59- 7.65
38	AR1260-C	1.537	1.490 E6	3.1	96	0.00	7.93- 7.99
39	AR1260-D	3.902	3.902 E6	0.0	95	0.00	8.37- 8.43
40	AR1260-E	4.115	4.030 E6	2.1	97	0.00	8.71- 8.87
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK355-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14351.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	34.113	33.068 E6	3.1	97	0.00	10.31-10.37	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	94.654	105.335 E6	-11.3	111	0.00	3.59- 3.65	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	1.416	1.580 E6	-11.6	106	0.00	4.26- 4.32	
32		AR1016-B	3.206	3.642 E6	-13.6	108	0.00	4.82- 4.88	
33		AR1016-C	7.121	7.929 E6	-11.3	107	0.00	5.46- 5.52	
34		AR1016-D	2.720	3.071 E6	-12.9	109	0.00	5.65- 5.71	
35		AR1016-E	2.216	2.504 E6	-13.0	110	0.00	6.32- 6.38	
36		AR1260-A	4.707	5.403 E6	-14.8	111	0.00	8.40- 8.46	
37		AR1260-B	3.791	4.247 E6	-12.0	110	0.00	9.05- 9.11	
38		AR1260-C	4.124	4.529 E6	-9.8	110	0.00	9.49- 9.55	
39		AR1260-D	8.845	10.347 E6	-17.0	109	0.00	9.83- 9.89	
40		AR1260-E	9.114	10.248 E6	-12.4	111	0.00	10.38-10.44	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK355-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14351.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  84.544 E6  -7.9  109   0.00   12.06-12.12
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13410.d  rkpcb339.m       Fri Aug 12 07:24:44 2022
```

8.8.18

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK355-ECC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14362.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\sa...55\rk14362.d\ECD1A.ch Vial: 16
Signal #2 : C:\msdchem\1\data\sarah\grk355\rk14362.d\ECD2B.ch
Acq On    : 12 Aug 2022   4:21 am                    Operator: chorngli
Sample    : cc339-500                                Inst    : GCRK
Misc      : op41180,grk355,15.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\rkpcb339.m (ChemStation Integrator)
Title        :
Last Update  : Mon Aug 08 21:55:12 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	36.676 E6	-6.6	105	0.01	2.92- 2.98
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	646.129	706.377 E3	-9.3	103	0.00	3.31- 3.37
32	AR1016-B	1.133	1.236 E6	-9.1	101	0.00	3.73- 3.79
33	AR1016-C	2.696	2.901 E6	-7.6	101	0.00	4.31- 4.37
34	AR1016-D	0.999	1.119 E6	-12.0	106	0.00	4.48- 4.54
35	AR1016-E	1.019	1.077 E6	-5.7	102	0.00	5.01- 5.07
36	AR1260-A	2.268	2.117 E6	6.7	90	0.00	7.04- 7.10
37	AR1260-B	1.722	1.503 E6	12.7	85	0.00	7.59- 7.65
38	AR1260-C	1.537	1.301 E6	15.4	82	0.00	7.93- 7.99
39	AR1260-D	3.902	3.325 E6	14.8	80	0.00	8.37- 8.43
40	AR1260-E	4.115	3.299 E6	19.8	78	0.00	8.71- 8.87
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK355-ECC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14362.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	34.113	22.768 E6	33.3#	65	0.00	10.31-10.37	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	107.652 E6	-13.7	111	0.00	3.59- 3.65	
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1016-A	1.416	1.709 E6	-20.7#	106	0.00	4.26- 4.32	
32		AR1016-B	3.206	3.644 E6	-13.7	100	0.00	4.82- 4.88	
33		AR1016-C	7.121	8.119 E6	-14.0	104	0.00	5.46- 5.52	
34		AR1016-D	2.720	3.075 E6	-13.1	104	0.00	5.65- 5.71	
35		AR1016-E	2.216	2.418 E6	-9.1	101	0.00	6.32- 6.38	
36		AR1260-A	4.707	4.329 E6	8.0	86	0.00	8.40- 8.46	
37		AR1260-B	3.791	3.185 E6	16.0	80	0.00	9.05- 9.11	
38		AR1260-C	4.124	3.245 E6	21.3#	77	0.00	9.49- 9.55	
39		AR1260-D	8.845	7.361 E6	16.8	77	0.00	9.83- 9.89	
40		AR1260-E	9.114	6.866 E6	24.7#	73	0.00	10.38-10.44	
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					

8.8.19

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK355-ECC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14362.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  55.817 E6  28.8#  70   0.00   12.05-12.11
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13409.d  rkpcb339.m       Sat Aug 13 22:38:48 2022
```

8.8.19

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK359-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14621.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\ch...59\rk14621.d\ECD1A.ch Vial: 52
Signal #2 : C:\msdchem\1\data\chrisc2\grk359\rk14621.d\ECD2B.ch
Acq On    : 16 Aug 2022   6:46 pm                    Operator: chorngli
Sample    : cc339-1000                               Inst    : GCRK
Misc      : op41230,grk359,10.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title        :
Last Update  : Mon Aug 15 21:10:35 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	35.897 E6	-4.3	101	0.00	2.92- 2.98
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	646.129	655.792 E3	-1.5	100	0.00	3.31- 3.37
32	AR1016-B	1.133	1.182 E6	-4.3	101	0.00	3.73- 3.79
33	AR1016-C	2.696	2.670 E6	1.0	95	0.00	4.31- 4.37
34	AR1016-D	0.999	1.041 E6	-4.2	101	0.00	4.48- 4.54
35	AR1016-E	1.019	1.045 E6	-2.6	101	0.00	5.01- 5.07
36	AR1260-A	2.268	2.252 E6	0.7	97	0.00	7.05- 7.11
37	AR1260-B	1.722	1.723 E6	-0.1	99	0.00	7.59- 7.65
38	AR1260-C	1.537	1.469 E6	4.4	95	0.00	7.94- 8.00
39	AR1260-D	3.902	3.871 E6	0.8	94	0.00	8.37- 8.43
40	AR1260-E	4.115	4.046 E6	1.7	97	0.00	8.72- 8.88
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK359-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14621.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	34.113	32.718 E6	4.1	96	0.00	10.32-10.38	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	103.199 E6	-9.0	108	0.00	3.59- 3.65	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	1.416	1.564 E6	-10.5	105	0.00	4.26- 4.32	
32		AR1016-B	3.206	3.398 E6	-6.0	101	0.00	4.82- 4.88	
33		AR1016-C	7.121	7.948 E6	-11.6	107	0.00	5.46- 5.52	
34		AR1016-D	2.720	3.042 E6	-11.8	108	0.00	5.65- 5.71	
35		AR1016-E	2.216	2.481 E6	-12.0	109	0.00	6.31- 6.37	
36		AR1260-A	4.707	5.257 E6	-11.7	108	0.00	8.40- 8.46	
37		AR1260-B	3.791	4.119 E6	-8.7	107	0.00	9.05- 9.11	
38		AR1260-C	4.124	4.277 E6	-3.7	104	0.00	9.49- 9.55	
39		AR1260-D	8.845	9.727 E6	-10.0	103	0.00	9.83- 9.89	
40		AR1260-E	9.114	9.436 E6	-3.5	102	0.00	10.38-10.44	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK359-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14621.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  77.636 E6   0.9  100   0.00   12.05-12.11
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13410.d  RKPCB339.M       Wed Aug 17 01:05:46 2022
```

8.8.20

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK359-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14629.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\ch...59\rk14629.d\ECD1A.ch Vial: 57
Signal #2 : C:\msdchem\1\data\chrisc2\grk359\rk14629.d\ECD2B.ch
Acq On    : 16 Aug 2022   9:08 pm                    Operator: chorngli
Sample    : cc339-500                                Inst    : GCRK
Misc      : op41180,grk359,15.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\RKPCB339.M (ChemStation Integrator)
Title        :
Last Update  : Mon Aug 15 21:10:35 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	37.641 E6	-9.4	108	0.01	2.92- 2.98
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	646.129	718.501 E3	-11.2	105	0.00	3.31- 3.37
32	AR1016-B	1.133	1.271 E6	-12.2	104	0.00	3.74- 3.80
33	AR1016-C	2.696	2.821 E6	-4.6	98	0.00	4.31- 4.37
34	AR1016-D	0.999	1.120 E6	-12.1	106	0.00	4.48- 4.54
35	AR1016-E	1.019	1.119 E6	-9.8	106	0.00	5.01- 5.07
36	AR1260-A	2.268	2.347 E6	-3.5	99	0.00	7.05- 7.11
37	AR1260-B	1.722	1.779 E6	-3.3	101	0.00	7.59- 7.65
38	AR1260-C	1.537	1.508 E6	1.9	95	0.00	7.94- 8.00
39	AR1260-D	3.902	3.914 E6	-0.3	94	0.00	8.37- 8.43
40	AR1260-E	4.115	4.041 E6	1.8	96	0.00	8.72- 8.88
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK359-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14629.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	34.113	31.370 E6	8.0	90	0.00	10.32-10.38	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	94.654	109.649 E6	-15.8	113	0.00	3.59- 3.65	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	1.416	1.765 E6	-24.6#	109	0.00	4.26- 4.32	
32		AR1016-B	3.206	3.827 E6	-19.4	105	0.00	4.82- 4.88	
33		AR1016-C	7.121	8.778 E6	-23.3#	112	0.00	5.46- 5.52	
34		AR1016-D	2.720	3.361 E6	-23.6#	113	0.00	5.65- 5.71	
35		AR1016-E	2.216	2.662 E6	-20.1#	112	0.00	6.32- 6.38	
36		AR1260-A	4.707	5.394 E6	-14.6	107	0.00	8.40- 8.46	
37		AR1260-B	3.791	4.086 E6	-7.8	103	0.00	9.05- 9.11	
38		AR1260-C	4.124	4.134 E6	-0.2	98	0.00	9.49- 9.55	
39		AR1260-D	8.845	9.297 E6	-5.1	97	0.00	9.83- 9.89	
40		AR1260-E	9.114	8.867 E6	2.7	95	0.00	10.38-10.44	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK359-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14629.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  71.869 E6   8.3   91   0.00   12.05-12.11
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range               SPCC's out = 0  CCC's out = 0
    rk13425.d  RKPCB339.M       Wed Aug 17 01:07:26 2022
```

8.8.21

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK361-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14679.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\rk361\rk14679.d\ECD1A.ch   Vial: 89
Signal #2 : C:\msdchem\1\data\rk361\rk14679.d\ECD2B.ch
Acq On    : 17 Aug 2022  11:12 am                    Operator: chorngli
Sample    : cc339-500                                Inst    : GCRK
Misc      : op41257,grk360,15.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\methods\rkpcb339.m (ChemStation Integrator)
Title        :
Last Update  : Tue Jul 26 23:06:43 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	32.213 E6	6.4	92	0.00	2.90- 2.96
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	646.129	619.229 E3	4.2	91	0.00	3.30- 3.36
32	AR1016-B	1.133	1.111 E6	1.9	91	0.00	3.73- 3.79
33	AR1016-C	2.696	2.645 E6	1.9	92	0.00	4.30- 4.36
34	AR1016-D	0.999	0.957 E6	4.2	91	0.00	4.47- 4.53
35	AR1016-E	1.019	0.953 E6	6.5	90	0.00	5.00- 5.06
36	AR1260-A	2.268	2.075 E6	8.5	88	0.00	7.04- 7.10
37	AR1260-B	1.722	1.577 E6	8.4	89	0.00	7.59- 7.65
38	AR1260-C	1.537	1.358 E6	11.6	85	0.00	7.93- 7.99
39	AR1260-D	3.902	4.058 E6	-4.0	97	0.00	8.37- 8.43
40	AR1260-E	4.115	3.827 E6	7.0	91	0.01	8.72- 8.88
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK361-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14679.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	34.113	30.730 E6	9.9	88	0.01	10.32-10.38	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	90.037 E6	4.9	93	0.00	3.58- 3.64	
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1016-A	1.416	1.466 E6	-3.5	91	0.00	4.25- 4.31	
32		AR1016-B	3.206	3.277 E6	-2.2	90	0.00	4.82- 4.88	
33		AR1016-C	7.121	7.388 E6	-3.7	95	0.00	5.46- 5.52	
34		AR1016-D	2.720	2.793 E6	-2.7	94	0.00	5.65- 5.71	
35		AR1016-E	2.216	2.220 E6	-0.2	93	0.00	6.31- 6.37	
36		AR1260-A	4.707	5.026 E6	-6.8	99	0.00	8.40- 8.46	
37		AR1260-B	3.791	3.888 E6	-2.6	98	0.00	9.05- 9.11	
38		AR1260-C	4.124	4.054 E6	1.7	96	0.00	9.49- 9.55	
39		AR1260-D	8.845	9.369 E6	-5.9	98	0.00	9.83- 9.89	
40		AR1260-E	9.114	9.320 E6	-2.3	100	0.00	10.38-10.44	
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK361-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14679.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  80.479 E6  -2.7  102   0.00   12.05-12.11
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13409.d  rkpcb339.m       Wed Aug 17 16:09:17 2022
```

8.8.22

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK361-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14690.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\rk361\rk14690.d\ECD1A.ch   Vial: 96
Signal #2 : C:\msdchem\1\data\rk361\rk14690.d\ECD2B.ch
Acq On    : 17 Aug 2022   2:49 pm                    Operator: chorngli
Sample    : cc339-1000                               Inst    : GCRK
Misc      : op41180,grk360,15.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\methods\rkpcb339.m (ChemStation Integrator)
Title        :
Last Update  : Tue Jul 26 23:06:43 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	34.410	35.986 E6	-4.6	102	0.00	2.91- 2.97
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	646.129	657.767 E3	-1.8	101	0.00	3.31- 3.37
32	AR1016-B	1.133	1.172 E6	-3.4	100	0.00	3.73- 3.79
33	AR1016-C	2.696	2.859 E6	-6.0	102	0.00	4.30- 4.36
34	AR1016-D	0.999	1.044 E6	-4.5	102	0.00	4.48- 4.54
35	AR1016-E	1.019	1.056 E6	-3.6	102	0.00	5.01- 5.07
36	AR1260-A	2.268	2.269 E6	-0.0	98	0.00	7.04- 7.10
37	AR1260-B	1.722	1.729 E6	-0.4	100	0.00	7.59- 7.65
38	AR1260-C	1.537	1.473 E6	4.2	95	0.00	7.93- 7.99
39	AR1260-D	3.902	3.846 E6	1.4	94	0.00	8.37- 8.43
40	AR1260-E	4.115	4.057 E6	1.4	97	0.01	8.72- 8.88
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK361-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14690.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	34.113	30.908 E6	9.4	91	0.01	10.32-10.38	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	94.654	101.726 E6	-7.5	107	0.00	3.59- 3.65	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	1.416	1.563 E6	-10.4	105	0.00	4.25- 4.31	
32		AR1016-B	3.206	3.434 E6	-7.1	102	0.00	4.82- 4.88	
33		AR1016-C	7.121	8.063 E6	-13.2	109	0.00	5.46- 5.52	
34		AR1016-D	2.720	3.055 E6	-12.3	109	0.00	5.65- 5.71	
35		AR1016-E	2.216	2.451 E6	-10.6	108	0.00	6.31- 6.37	
36		AR1260-A	4.707	5.179 E6	-10.0	106	0.00	8.40- 8.46	
37		AR1260-B	3.791	4.014 E6	-5.9	104	0.00	9.05- 9.11	
38		AR1260-C	4.124	4.110 E6	0.3	100	0.00	9.49- 9.55	
39		AR1260-D	8.845	9.054 E6	-2.4	96	0.00	9.83- 9.89	
40		AR1260-E	9.114	8.708 E6	4.5	94	0.00	10.38-10.44	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

8.8.23

8

Continuing Calibration Summary

Job Number: JD49400 **Sample:** GRK361-CC339
Account: TTCOD Tetra Tech **Lab FileID:** RK14690.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      78.372  70.210 E6  10.4   91   0.00   12.05-12.11
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    rk13410.d  rkpcb339.m       Wed Aug 17 16:24:28 2022
```

8.8.23

8

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G2Y4195 **Method:** SW846 8015D **Instrument ID:** GC2Y

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2Y4195-RT	2Y107725.D	03/15/22 16:53	n/a	Retention Time Marker
G2Y4195-IC4195	2Y107726.D	03/15/22 17:27	n/a	Initial cal 25
G2Y4195-IC4195	2Y107727.D	03/15/22 18:01	n/a	Initial cal 50
G2Y4195-IC4195	2Y107728.D	03/15/22 18:35	n/a	Initial cal 100
G2Y4195-IC4195	2Y107729.D	03/15/22 19:08	n/a	Initial cal 250
G2Y4195-IC4195	2Y107730.D	03/15/22 19:42	n/a	Initial cal 500
G2Y4195-ICC4195	2Y107731.D	03/15/22 20:16	n/a	Initial cal 1000
G2Y4195-IC4195	2Y107732.D	03/15/22 20:50	n/a	Initial cal 2500
G2Y4195-IC4195	2Y107733.D	03/15/22 22:15	n/a	Initial cal 5000
G2Y4195-IC4195	2Y107734.D	03/15/22 22:48	n/a	Initial cal 10000
G2Y4195-IC4195	2Y107735.D	03/15/22 23:22	n/a	Initial cal 50000
G2Y4195-ICV4195	2Y107736.D	03/15/22 23:56	n/a	Initial cal verification 1000

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G2Y4272 **Method:** SW846 8015D **Instrument ID:** GC2Y

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2Y4272-CC4195	2Y109587.D	08/10/22 15:10	n/a	Continuing cal 500
G2Y4272-RT	2Y109588.D	08/10/22 16:04	n/a	Retention Time Marker
OP41170-MB1	2Y109590.D	08/10/22 18:16	OP41170	Method Blank
OP41170-BS1	2Y109591.D	08/10/22 18:49	OP41170	Blank Spike
OP41170-BSD	2Y109592.D	08/10/22 19:23	OP41170	Blank Spike Duplicate
ZZZZZZ	2Y109593.D	08/10/22 23:01	OP41170	(unrelated sample)
ZZZZZZ	2Y109594.D	08/10/22 23:34	OP41170	(unrelated sample)
JD49400-1	2Y109595.D	08/11/22 00:07	OP41170	VDS-WS-01
ZZZZZZ	2Y109596.D	08/11/22 00:41	OP41170	(unrelated sample)
G2Y4272-CC4195	2Y109598.D	08/11/22 01:48	n/a	Continuing cal 1000
ZZZZZZ	2Y109600.D	08/11/22 02:55	OP41170	(unrelated sample)
ZZZZZZ	2Y109601.D	08/11/22 03:28	OP41170	(unrelated sample)
ZZZZZZ	2Y109602.D	08/11/22 04:02	OP41170	(unrelated sample)
G2Y4272-CC4195	2Y109605.D	08/11/22 05:42	n/a	Continuing cal 500

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G2Y4273 **Method:** SW846 8015D **Instrument ID:** GC2Y

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2Y4273-CC4195	2Y109607.D	08/14/22 11:33	n/a	Continuing cal 1000
G2Y4273-RT	2Y109609.D	08/14/22 13:13	n/a	Retention Time Marker
OP41225-MB1	2Y109610.D	08/14/22 13:47	OP41225	Method Blank
OP41225-BS1	2Y109611.D	08/14/22 14:20	OP41225	Blank Spike
OP41225-BSD	2Y109612.D	08/14/22 14:53	OP41225	Blank Spike Duplicate
JD49622-1	2Y109613.D	08/14/22 15:26	OP41225	(used for QC only; not part of job JD49400)
OP41225-MS	2Y109614.D	08/14/22 16:00	OP41225	Matrix Spike
OP41225-MSD	2Y109615.D	08/14/22 16:33	OP41225	Matrix Spike Duplicate
ZZZZZZ	2Y109616.D	08/14/22 17:06	OP41225	(unrelated sample)
ZZZZZZ	2Y109617.D	08/14/22 17:39	OP41225	(unrelated sample)
G2Y4273-CC4195	2Y109618.D	08/14/22 18:12	n/a	Continuing cal 500
ZZZZZZ	2Y109620.D	08/14/22 19:19	OP41225	(unrelated sample)
ZZZZZZ	2Y109621.D	08/14/22 19:52	OP41225	(unrelated sample)
ZZZZZZ	2Y109622.D	08/14/22 20:26	OP41225	(unrelated sample)
ZZZZZZ	2Y109623.D	08/14/22 20:59	OP41225	(unrelated sample)
ZZZZZZ	2Y109624.D	08/14/22 21:32	OP41225	(unrelated sample)
ZZZZZZ	2Y109625.D	08/14/22 22:05	OP41225	(unrelated sample)
JD49400-1	2Y109626.D	08/14/22 22:39	OP41170	VDS-WS-01
G2Y4273-CC4195	2Y109628.D	08/14/22 23:45	n/a	Continuing cal 1000

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G2Z3259 **Method:** SW846 8015D **Instrument ID:** GC2Z

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2Z3259-RT	2Z84951.D	11/23/21 11:51	n/a	Retention Time Marker
G2Z3259-IC3259	2Z84952.D	11/23/21 12:50	n/a	Initial cal 25
G2Z3259-IC3259	2Z84954.D	11/23/21 13:56	n/a	Initial cal 100
G2Z3259-IC3259	2Z84955.D	11/23/21 14:30	n/a	Initial cal 250
G2Z3259-IC3259	2Z84956.D	11/23/21 15:03	n/a	Initial cal 500
G2Z3259-ICC3259	2Z84957.D	11/23/21 15:37	n/a	Initial cal 1000
G2Z3259-IC3259	2Z84959.D	11/23/21 16:44	n/a	Initial cal 5000
G2Z3259-IC3259	2Z84959A.D	11/23/21 17:21	n/a	Initial cal 50
G2Z3259-IC3259	2Z84959B.D	11/23/21 17:55	n/a	Initial cal 2500
G2Z3259-IC3259	2Z84960.D	11/23/21 18:28	n/a	Initial cal 10000
G2Z3259-IC3259	2Z84961.D	11/23/21 19:02	n/a	Initial cal 50000
G2Z3259-ICV3259	2Z84962.D	11/23/21 19:35	n/a	Initial cal verification 1000

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G2Z3372 **Method:** SW846 8015D **Instrument ID:** GC2Z

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2Z3372-CC3259	2Z87587.D	08/10/22 15:10	n/a	Continuing cal 1000
G2Z3372-RT	2Z87589.D	08/10/22 16:38	n/a	Retention Time Marker
ZZZZZZ	2Z87590.D	08/10/22 18:16	OP41078	(unrelated sample)
OP41170-MB1	2Z87591.D	08/10/22 18:49	OP41170	Method Blank
JD49405-1	2Z87592.D	08/10/22 19:23	OP41170	(used for QC only; not part of job JD49400)
OP41170-MS	2Z87593.D	08/10/22 23:01	OP41170	Matrix Spike
OP41170-MSD	2Z87594.D	08/10/22 23:34	OP41170	Matrix Spike Duplicate
ZZZZZZ	2Z87595.D	08/11/22 00:07	OP41170	(unrelated sample)
ZZZZZZ	2Z87596.D	08/11/22 00:41	OP41170	(unrelated sample)
G2Z3372-CC3259	2Z87598.D	08/11/22 01:48	n/a	Continuing cal 500
ZZZZZZ	2Z87600.D	08/11/22 02:55	OP41170	(unrelated sample)
ZZZZZZ	2Z87601.D	08/11/22 03:28	OP41170	(unrelated sample)
ZZZZZZ	2Z87602.D	08/11/22 04:02	OP41170	(unrelated sample)
ZZZZZZ	2Z87603.D	08/11/22 04:35	OP41170	(unrelated sample)
G2Z3372-CC3259	2Z87605.D	08/11/22 05:42	n/a	Continuing cal 1000

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GRK339 **Method:** SW846 8082A **Instrument ID:** GCRK

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRK339-IC339	RK13407.D	07/25/22 17:39	n/a	Initial cal 50
GRK339-IC339	RK13408.D	07/25/22 17:56	n/a	Initial cal 250
GRK339-IC339	RK13409.D	07/25/22 18:12	n/a	Initial cal 500
GRK339-ICC339	RK13410.D	07/25/22 18:29	n/a	Initial cal 1000
GRK339-IC339	RK13411.D	07/25/22 18:45	n/a	Initial cal 2000
GRK339-IC339	RK13412.D	07/25/22 19:02	n/a	Initial cal 3000
GRK339-IC339	RK13413.D	07/25/22 19:18	n/a	Initial cal 5000
GRK339-IC339	RK13414.D	07/25/22 19:35	n/a	Initial cal 10000
GRK339-IC339	RK13415.D	07/25/22 19:51	n/a	Initial cal 1000
GRK339-IC339	RK13416.D	07/25/22 20:08	n/a	Initial cal 1000
GRK339-IC339	RK13417.D	07/25/22 20:24	n/a	Initial cal 1000
GRK339-IC339	RK13418.D	07/25/22 20:41	n/a	Initial cal 1000
GRK339-ICV339	RK13419.D	07/25/22 20:57	n/a	Initial cal verification 1000
GRK339-ICV339	RK13420.D	07/25/22 21:14	n/a	Initial cal verification 1000
GRK339-ICV339	RK13421.D	07/25/22 21:30	n/a	Initial cal verification 1000
GRK339-ICV339	RK13422.D	07/25/22 21:47	n/a	Initial cal verification 1000
GRK339-ICV339	RK13423.D	07/25/22 22:03	n/a	Initial cal verification 1000

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GRK355 **Method:** SW846 8082A **Instrument ID:** GCRK

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ZZZZZZ	RK14313.D	08/11/22 10:08	OP41015	(unrelated sample)
ZZZZZZ	RK14314.D	08/11/22 10:24	OP41015	(unrelated sample)
GRK355-ECC339	RK14320.D	08/11/22 12:49	n/a	Ending cal 500
GRK355-CC339	RK14320A.D	08/11/22 14:59	n/a	Continuing cal 500
ZZZZZZ	RK14322.D	08/11/22 15:43	OP40825	(unrelated sample)
ZZZZZZ	RK14323.D	08/11/22 15:59	OP40825	(unrelated sample)
ZZZZZZ	RK14324.D	08/11/22 16:16	OP40825	(unrelated sample)
ZZZZZZ	RK14325.D	08/11/22 16:32	OP40825	(unrelated sample)
JD48366-76	RK14326.D	08/11/22 16:49	OP40825	(used for QC only; not part of job JD49400)
ZZZZZZ	RK14327.D	08/11/22 17:05	OP40825	(unrelated sample)
ZZZZZZ	RK14328.D	08/11/22 17:22	OP40825	(unrelated sample)
GRK355-CC339	RK14331.D	08/11/22 18:31	n/a	Continuing cal 1000
ZZZZZZ	RK14333.D	08/11/22 19:04	OP40825	(unrelated sample)
ZZZZZZ	RK14334.D	08/11/22 19:21	OP40825	(unrelated sample)
ZZZZZZ	RK14335.D	08/11/22 19:37	OP40825	(unrelated sample)
ZZZZZZ	RK14336.D	08/11/22 19:54	OP41128	(unrelated sample)
OP41128-MB1	RK14337.D	08/11/22 20:10	OP41128	Method Blank
OP41128-BS1	RK14338.D	08/11/22 20:48	OP41128	Blank Spike
GRK355-CC339	RK14341.D	08/11/22 21:58	n/a	Continuing cal 500
GRK355-CC339	RK14351.D	08/12/22 01:20	n/a	Continuing cal 1000
OP41180-MB1	RK14353.D	08/12/22 01:52	OP41180	Method Blank
OP41180-BS1	RK14354.D	08/12/22 02:09	OP41180	Blank Spike
OP41180-MS	RK14355.D	08/12/22 02:25	OP41180	Matrix Spike
OP41180-MSD	RK14356.D	08/12/22 02:42	OP41180	Matrix Spike Duplicate
JD49450-1	RK14357.D	08/12/22 02:58	OP41180	(used for QC only; not part of job JD49400)
ZZZZZZ	RK14358.D	08/12/22 03:15	OP41180	(unrelated sample)
ZZZZZZ	RK14359.D	08/12/22 03:31	OP41180	(unrelated sample)
GRK355-ECC339	RK14362.D	08/12/22 04:21	n/a	Ending cal 500
GRK355-CC339	RK14384.D	08/12/22 11:53	n/a	Continuing cal 500
OP41210-MB1	RK14387.D	08/12/22 12:42	OP41210	Method Blank
OP41210-BS1	RK14388.D	08/12/22 12:58	OP41210	Blank Spike
OP41210-BSD	RK14389.D	08/12/22 13:15	OP41210	Blank Spike Duplicate
ZZZZZZ	RK14390.D	08/12/22 13:31	OP41210	(unrelated sample)
OP41200-MB1	RK14392.D	08/12/22 14:04	OP41200	Method Blank
GRK355-CC339	RK14395.D	08/12/22 15:04	n/a	Continuing cal 1000
OP41200-BS1	RK14397.D	08/12/22 15:37	OP41200	Blank Spike
OP41200-BSD	RK14398.D	08/12/22 15:53	OP41200	Blank Spike Duplicate
ZZZZZZ	RK14399.D	08/12/22 16:10	OP41200	(unrelated sample)
ZZZZZZ	RK14400.D	08/12/22 16:40	OP41200	(unrelated sample)
ZZZZZZ	RK14401.D	08/12/22 16:56	OP41200	(unrelated sample)
GRK355-CC339	RK14404.D	08/12/22 17:56	n/a	Continuing cal 500

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GRK359 **Method:** SW846 8082A **Instrument ID:** GCRK

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRK359-CC339	RK14522.D	08/15/22 12:54	n/a	Continuing cal 500
OP41247-MB1	RK14524.D	08/15/22 14:02	OP41247	Method Blank
OP41247A-MB1	RK14524.D	08/15/22 14:02	OP41247A	Method Blank
OP41247-BS1	RK14525.D	08/15/22 14:19	OP41247	Blank Spike
OP41247A-BS1	RK14525.D	08/15/22 14:19	OP41247A	Blank Spike
OP41247-BSD	RK14526.D	08/15/22 14:35	OP41247	Blank Spike Duplicate
OP41247A-BSD	RK14526.D	08/15/22 14:35	OP41247A	Blank Spike Duplicate
ZZZZZZ	RK14527.D	08/15/22 14:52	OP41247A	(unrelated sample)
ZZZZZZ	RK14528.D	08/15/22 15:08	OP41247A	(unrelated sample)
ZZZZZZ	RK14529.D	08/15/22 15:24	OP41247	(unrelated sample)
ZZZZZZ	RK14530.D	08/15/22 15:41	OP41247	(unrelated sample)
GRK359-CC339	RK14533.D	08/15/22 17:18	n/a	Continuing cal 1000
ZZZZZZ	RK14535.D	08/15/22 18:25	OP41247	(unrelated sample)
OP41245-MB1	RK14536.D	08/15/22 18:42	OP41245	Method Blank
OP41245-BS1	RK14537.D	08/15/22 18:58	OP41245	Blank Spike
OP41245-BSD	RK14538.D	08/15/22 19:15	OP41245	Blank Spike Duplicate
ZZZZZZ	RK14539.D	08/15/22 19:31	OP41245	(unrelated sample)
ZZZZZZ	RK14540.D	08/15/22 19:48	OP41245	(unrelated sample)
ZZZZZZ	RK14541.D	08/15/22 20:04	OP41245	(unrelated sample)
GRK359-CC339	RK14544.D	08/15/22 20:53	n/a	Continuing cal 500
ZZZZZZ	RK14546.D	08/15/22 21:26	OP41245	(unrelated sample)
ZZZZZZ	RK14547.D	08/15/22 21:43	OP41245	(unrelated sample)
ZZZZZZ	RK14548.D	08/15/22 21:59	OP41245	(unrelated sample)
ZZZZZZ	RK14550.D	08/15/22 22:32	OP41245	(unrelated sample)
OP41264-MB1	RK14552.D	08/15/22 23:05	OP41264	Method Blank
GRK359-CC339	RK14555.D	08/15/22 23:55	n/a	Continuing cal 1000
OP41264-BS1	RK14557.D	08/16/22 00:28	OP41264	Blank Spike
JD49731-1	RK14560.D	08/16/22 01:17	OP41264	(used for QC only; not part of job JD49400)
ZZZZZZ	RK14562.D	08/16/22 01:50	OP41264	(unrelated sample)
ZZZZZZ	RK14563.D	08/16/22 02:06	OP41264	(unrelated sample)
GRK359-CC339	RK14566.D	08/16/22 02:56	n/a	Continuing cal 500
ZZZZZZ	RK14568.D	08/16/22 03:29	OP41264	(unrelated sample)
ZZZZZZ	RK14569.D	08/16/22 03:45	OP41264	(unrelated sample)
ZZZZZZ	RK14570.D	08/16/22 04:02	OP41264	(unrelated sample)
ZZZZZZ	RK14571.D	08/16/22 04:18	OP41264	(unrelated sample)
ZZZZZZ	RK14572.D	08/16/22 04:34	OP41264	(unrelated sample)
ZZZZZZ	RK14573.D	08/16/22 04:51	OP41264	(unrelated sample)
ZZZZZZ	RK14574.D	08/16/22 05:07	OP41264	(unrelated sample)
GRK359-ECC339	RK14577.D	08/16/22 05:57	n/a	Ending cal 1000
GRK359-CC339	RK14599.D	08/16/22 12:24	n/a	Continuing cal 1000
OP41230-MB1	RK14601.D	08/16/22 12:57	OP41230	Method Blank
OP41230-BS1	RK14602.D	08/16/22 13:13	OP41230	Blank Spike
OP41230-MS	RK14603.D	08/16/22 13:29	OP41230	Matrix Spike
OP41230-MSD	RK14604.D	08/16/22 13:46	OP41230	Matrix Spike Duplicate
GRK359-CC339	RK14610.D	08/16/22 15:35	n/a	Continuing cal 500
ZZZZZZ	RK14612.D	08/16/22 16:08	OP41230	(unrelated sample)

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GRK359 **Method:** SW846 8082A **Instrument ID:** GCRK

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ZZZZZZ	RK14613.D	08/16/22 16:24	OP41230	(unrelated sample)
ZZZZZZ	RK14614.D	08/16/22 16:40	OP41230	(unrelated sample)
ZZZZZZ	RK14615.D	08/16/22 16:57	OP41230	(unrelated sample)
ZZZZZZ	RK14616.D	08/16/22 17:13	OP41230	(unrelated sample)
ZZZZZZ	RK14617.D	08/16/22 17:30	OP41230	(unrelated sample)
ZZZZZZ	RK14618.D	08/16/22 17:46	OP41230	(unrelated sample)
GRK359-CC339	RK14621.D	08/16/22 18:46	n/a	Continuing cal 1000
JD49698-1	RK14623.D	08/16/22 19:19	OP41230	(used for QC only; not part of job JD49400)
JD49400-1	RK14624.D	08/16/22 19:35	OP41180	VDS-WS-01
ZZZZZZ	RK14625.D	08/16/22 19:52	OP41180	(unrelated sample)
GRK359-CC339	RK14629.D	08/16/22 21:08	n/a	Continuing cal 500

Run Sequence Report

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: GRK361 **Method:** SW846 8082A **Instrument ID:** GCRK

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRK361-CC339	RK14679.D	08/17/22 11:12	n/a	Continuing cal 500
ZZZZZZ	RK14681.D	08/17/22 12:11	OP41163	(unrelated sample)
ZZZZZZ	RK14682.D	08/17/22 12:27	OP41257	(unrelated sample)
ZZZZZZ	RK14683.D	08/17/22 12:44	OP41257	(unrelated sample)
ZZZZZZ	RK14684.D	08/17/22 13:00	OP41257	(unrelated sample)
JD49740-1	RK14685.D	08/17/22 13:17	OP41257	(used for QC only; not part of job JD49400)
OP41180-MB1	RK14686.D	08/17/22 13:33	OP41180	Method Blank
GRK361-CC339	RK14690.D	08/17/22 14:49	n/a	Continuing cal 1000
ZZZZZZ	RK14692.D	08/17/22 15:21	OP41180	(unrelated sample)
ZZZZZZ	RK14693.D	08/17/22 15:37	OP41180	(unrelated sample)
ZZZZZZ	RK14694.D	08/17/22 15:54	OP41267	(unrelated sample)
ZZZZZZ	RK14695.D	08/17/22 16:10	OP41267	(unrelated sample)
ZZZZZZ	RK14696.D	08/17/22 16:26	OP41267	(unrelated sample)
OP41267-MB1	RK14697.D	08/17/22 16:43	OP41267	Method Blank
OP41267-BS1	RK14698.D	08/17/22 16:59	OP41267	Blank Spike
GRK361-CC339	RK14701.D	08/17/22 17:58	n/a	Continuing cal 500
ZZZZZZ	RK14703.D	08/17/22 18:30	OP41210	(unrelated sample)
ZZZZZZ	RK14704.D	08/17/22 18:47	OP41210	(unrelated sample)
OP41231-BS1	RK14705.D	08/17/22 19:03	OP41231	Blank Spike
OP41231-BSD	RK14706.D	08/17/22 19:19	OP41231	Blank Spike Duplicate
OP41231-MB1	RK14707.D	08/17/22 19:36	OP41231	Method Blank
ZZZZZZ	RK14708.D	08/17/22 19:52	OP41231	(unrelated sample)
ZZZZZZ	RK14709.D	08/17/22 20:08	OP41231	(unrelated sample)
GRK361-CC339	RK14712.D	08/17/22 21:07	n/a	Continuing cal 1000
ZZZZZZ	RK14715.D	08/17/22 22:05	OP41264	(unrelated sample)
ZZZZZZ	RK14716.D	08/17/22 22:21	OP41264	(unrelated sample)
ZZZZZZ	RK14717.D	08/17/22 22:37	OP41264	(unrelated sample)
OP41264-MS	RK14718.D	08/17/22 22:53	OP41264	Matrix Spike
OP41264-MSD	RK14719.D	08/17/22 23:10	OP41264	Matrix Spike Duplicate
OP41264-MB1	RK14720.D	08/17/22 23:26	OP41264	Method Blank
OP41264-BS1	RK14721.D	08/17/22 23:42	OP41264	Blank Spike
GRK361-CC339	RK14723.D	08/18/22 00:25	n/a	Continuing cal 500

GC/LC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
08/17/22 09:04

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14624.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 16 Aug 2022   7:35 pm
Operator  : chorngli
Sample    : jd49400-1
Misc      : op41180,grk359,15.3,,,10,10
ALS Vial  : 54   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 00:55:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

      Compound         RT#1      RT#2    Resp#1   Resp#2     ppb      ppb
  ---------------------------------------------------------------------------

  System Monitoring Compounds
 1) S   Tetrachlo...    2.973f    3.633f  141.7E6  105.4E6    4.118m    1.114 #
  Spiked Amount   40.000                  Recovery     =   10.30%     2.79%
51) S   Decachlor...   10.328f   12.092   100.6E6  202.5E6    2.948m    2.584m
  Spiked Amount   40.000                  Recovery     =    7.37%     6.46%

  Target Compounds
  ---------------------------------------------------------------------------

  (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%  (m)=manual int.
```

9.1.1

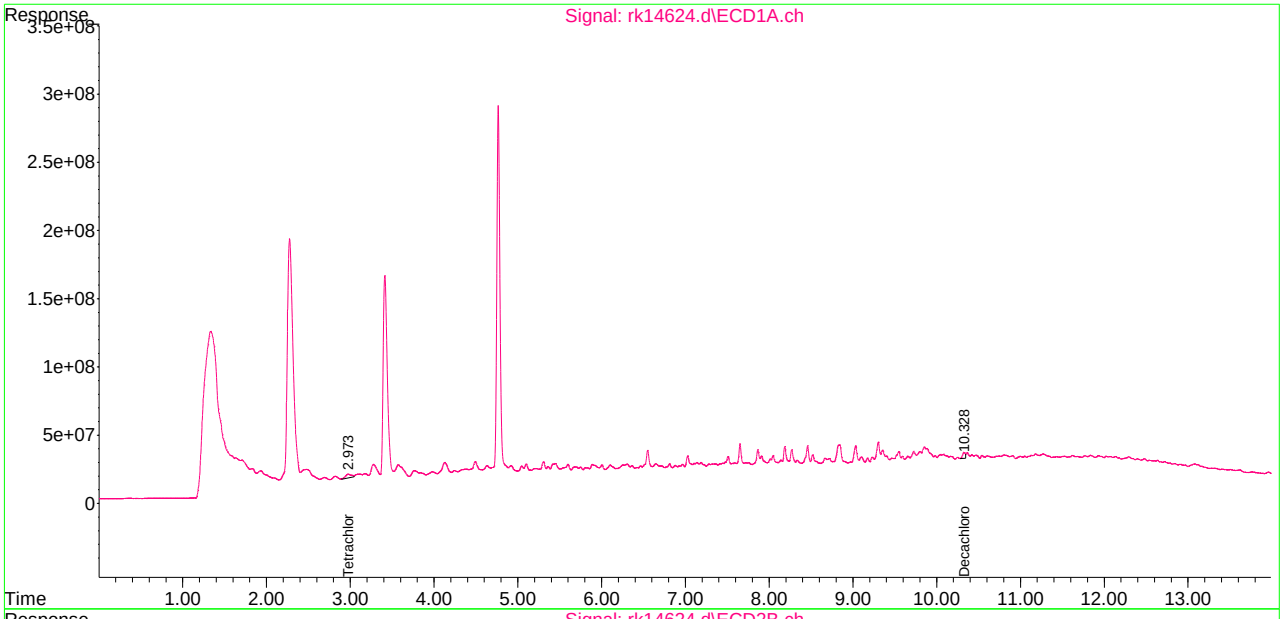
9

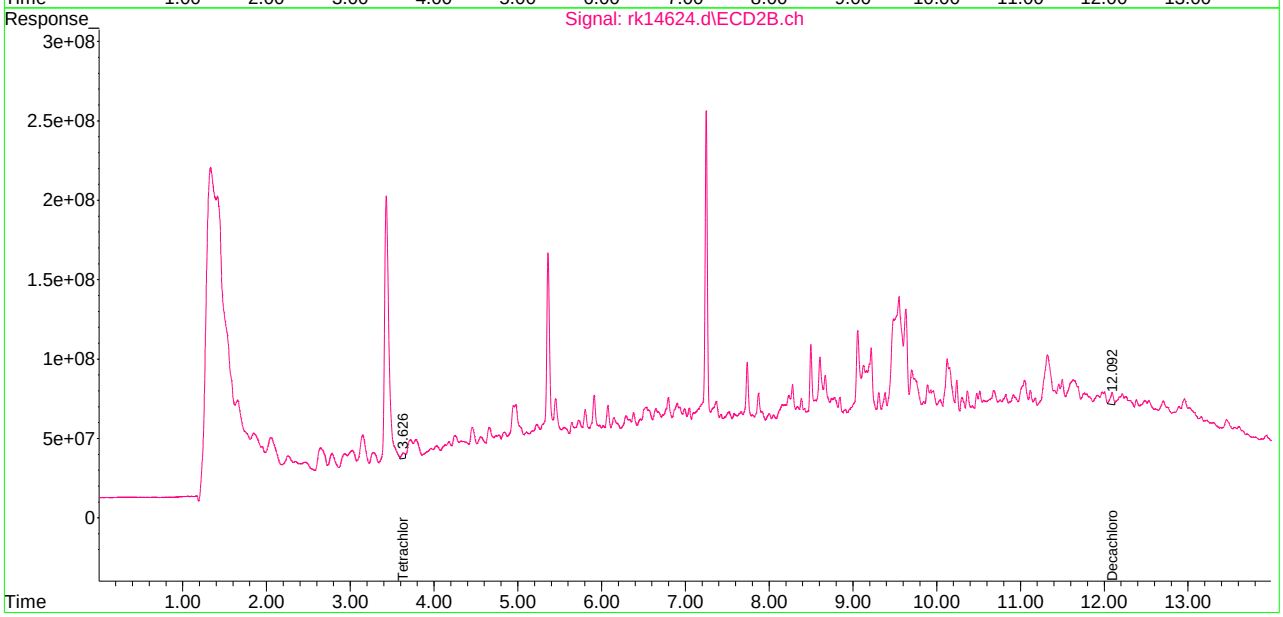
Quantitation Report (QT Reviewed)

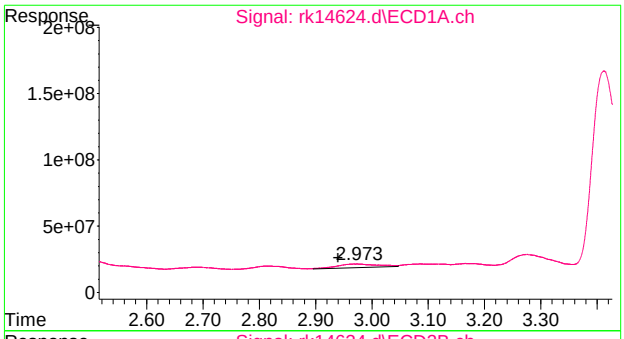
Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14624.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 7:35 pm
Operator : chorngli
Sample : jd49400-1
Misc : op41180,grk359,15.3,,,10,10
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 00:55:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

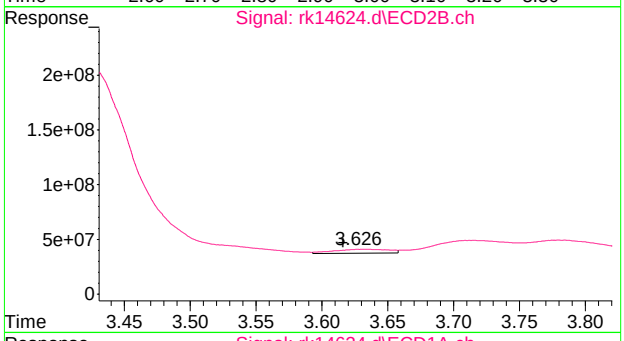






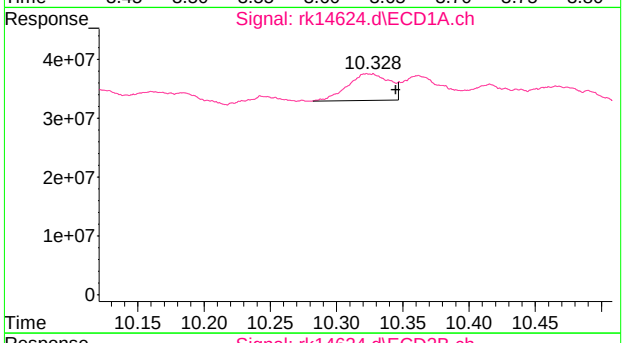
#1 Tetrachloro-m-xylene

R.T.: 2.973 min
Delta R.T.: 0.033 min
Response: 141709284
Conc: 4.12 ppb m



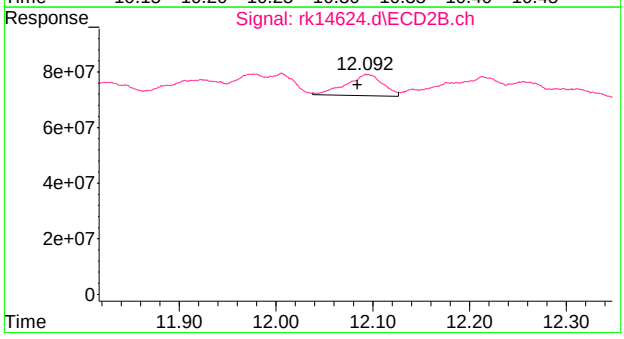
#1 Tetrachloro-m-xylene

R.T.: 3.633 min
Delta R.T.: 0.017 min
Response: 105446296
Conc: 1.11 ppb



#51 Decachlorobiphenyl

R.T.: 10.328 min
Delta R.T.: -0.017 min
Response: 100557038
Conc: 2.95 ppb m



#51 Decachlorobiphenyl

R.T.: 12.092 min
Delta R.T.: 0.008 min
Response: 202544647
Conc: 2.58 ppb m

Manual Integration Approval Summary

Sample Number:	JD49400-1	**Method:**	SW846 8082A
Lab FileID:	RK14624.D	**Analyst approved:**	08/17/22 02:43 Christopher Changho
Injection Time:	08/16/22 19:35	**Supervisor approved:**	08/17/22 09:04 Gwendolyn Burns

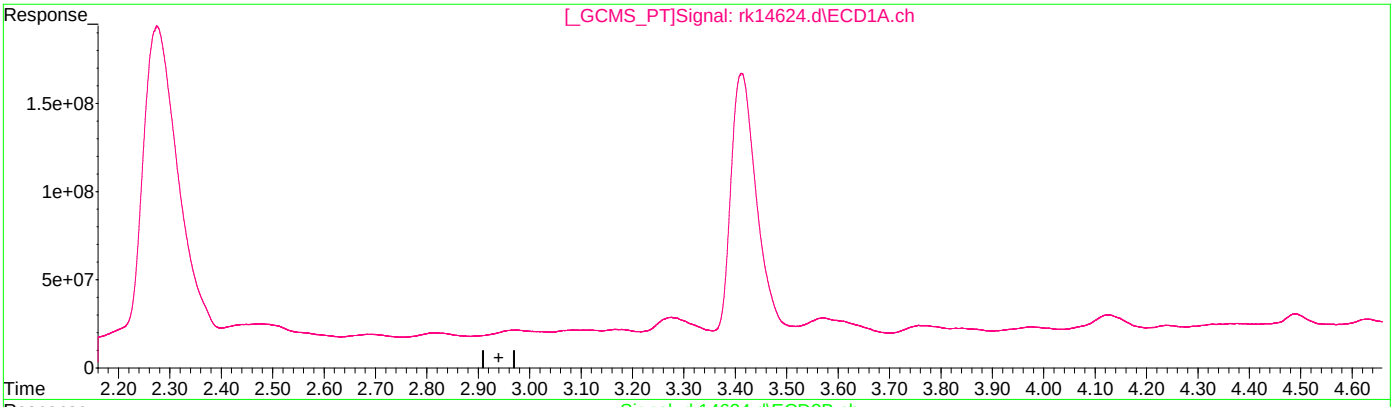
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.97	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.33	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	12.09	Poorly defined baseline

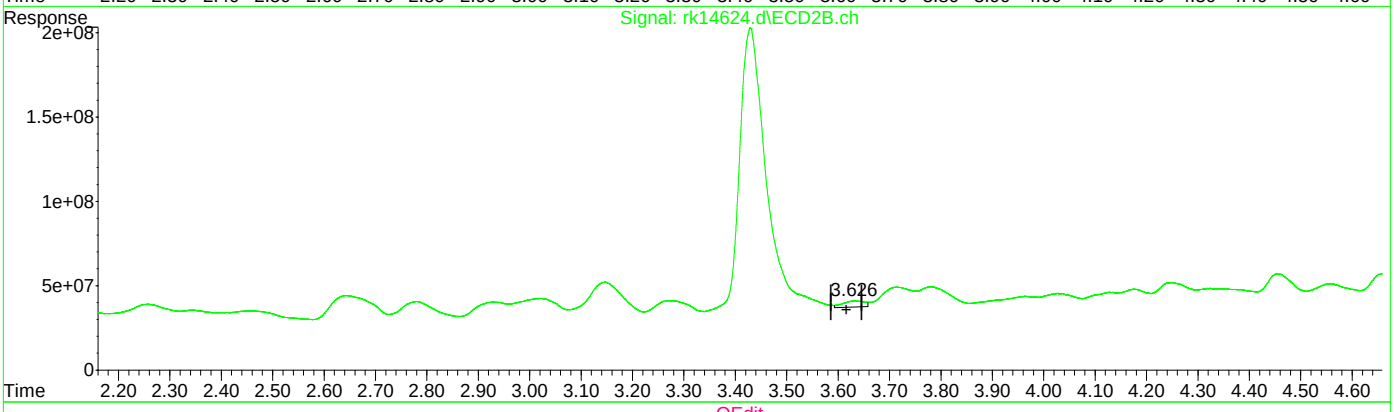
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14624.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 7:35 pm
Operator : chorngli
Sample : jd49400-1
Misc : op41180,grk359,15.3,,,10,10
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:20:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(1) Tetrachloro-m-xylene (S)

0.000min 0.000 ppb

response 0

(1) Tetrachloro-m-xylene #2 (S)

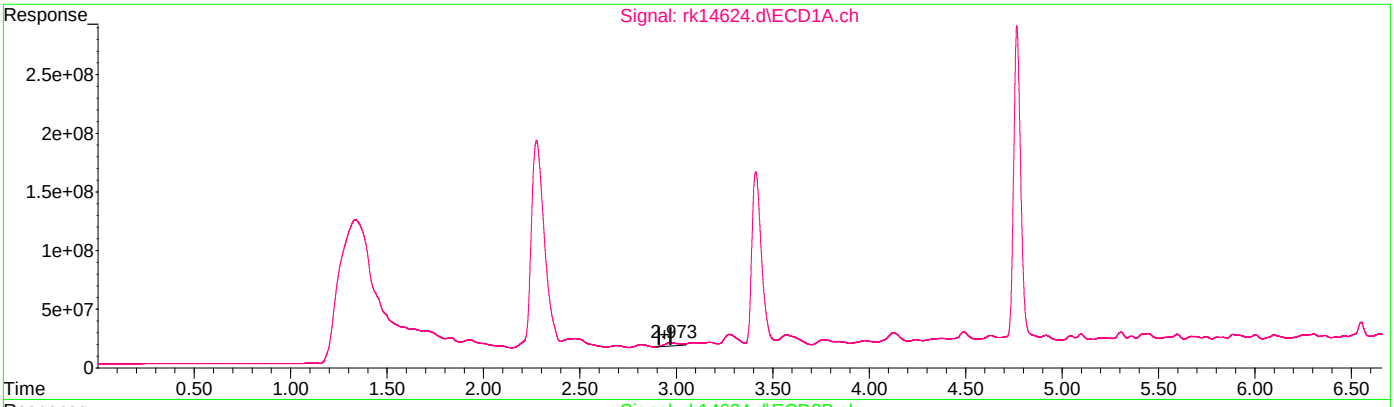
3.633min 1.114 ppb

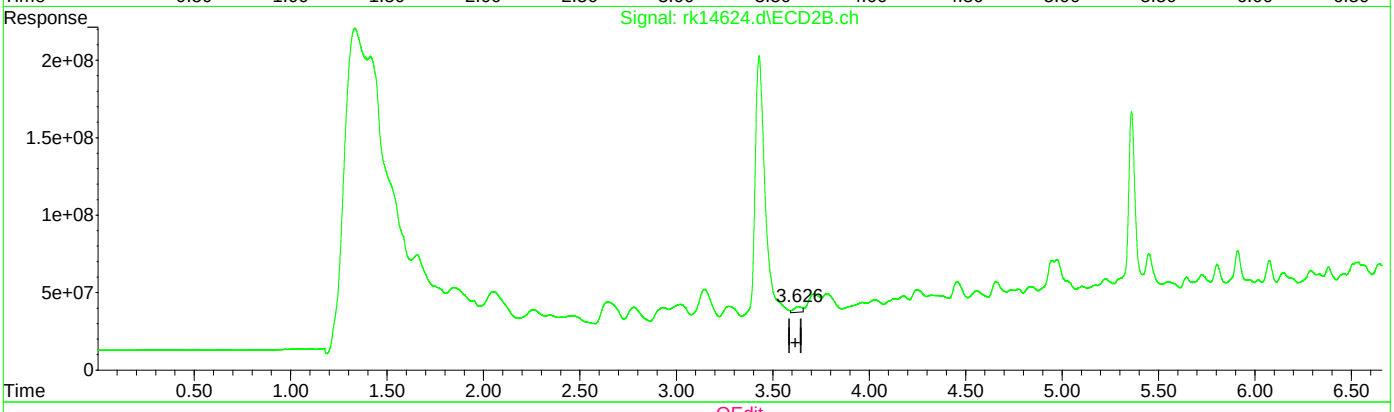
response 105446296

(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 00:54:12 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14624.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 16 Aug 2022   7:35 pm
Operator  : chorngli
Sample    : jd49400-1
Misc      : op41180,grk359,15.3,,,10,10
ALS Vial  : 54   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:20:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(1) Tetrachloro-m-xylene (S)

2.973min 4.118 ppb m

response 141709284

(1) Tetrachloro-m-xylene #2 (S)

3.633min 1.114 ppb

response 105446296

(+) = Expected Retention Time

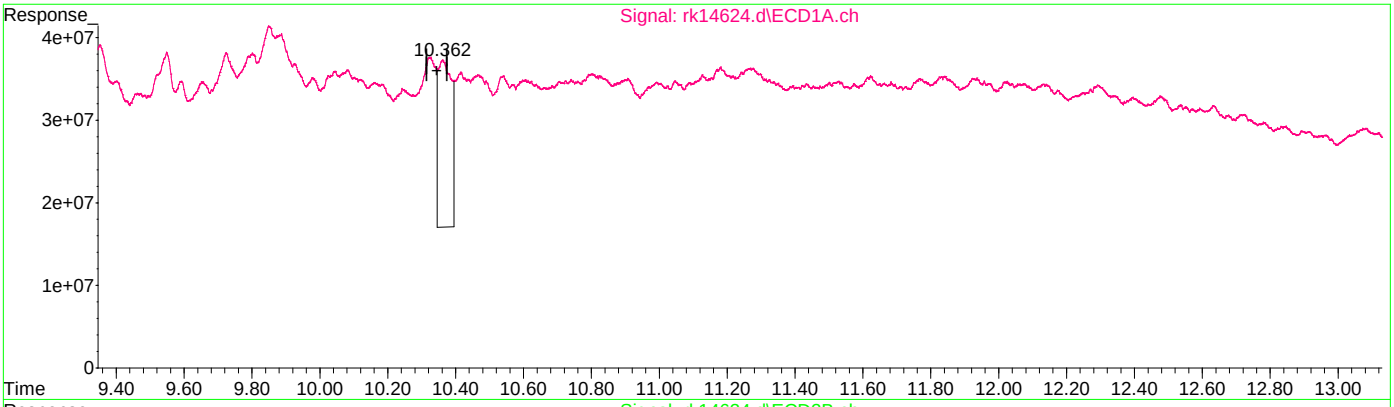
RKPCB339.M Wed Aug 17 00:54:20 2022

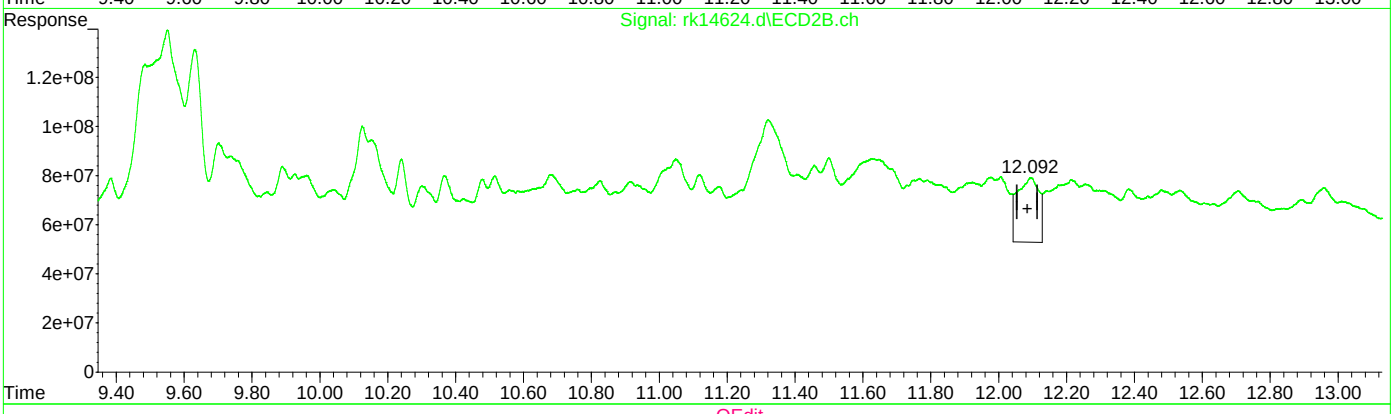
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14624.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 7:35 pm
Operator : chorngli
Sample : jd49400-1
Misc : op41180,grk359,15.3,,,10,10
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:20:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)

10.362min 16.597 ppb

response 566186591

(51) Decachlorobiphenyl #2 (S)

12.094min 14.887 ppb

response 1166759322

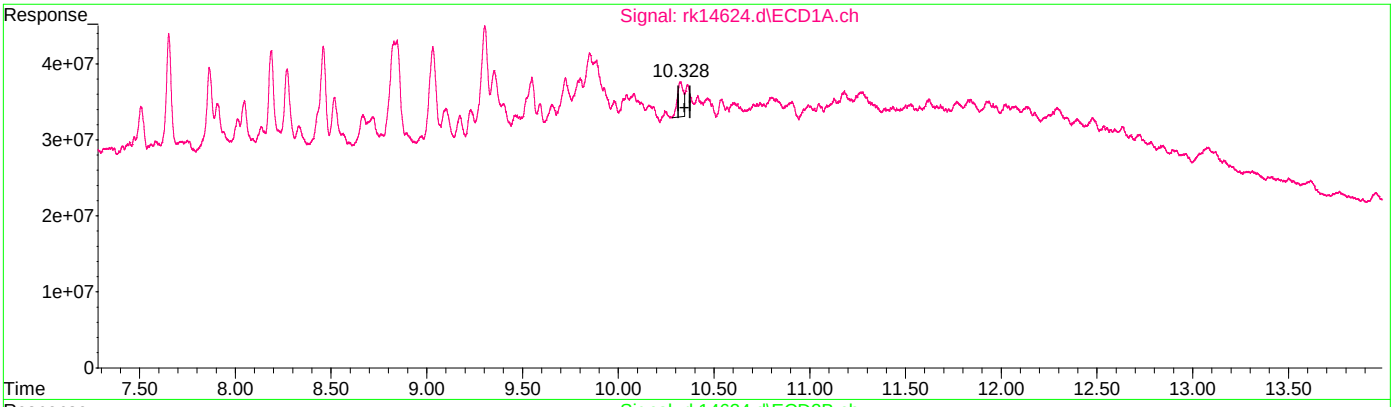
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 00:54:23 2022

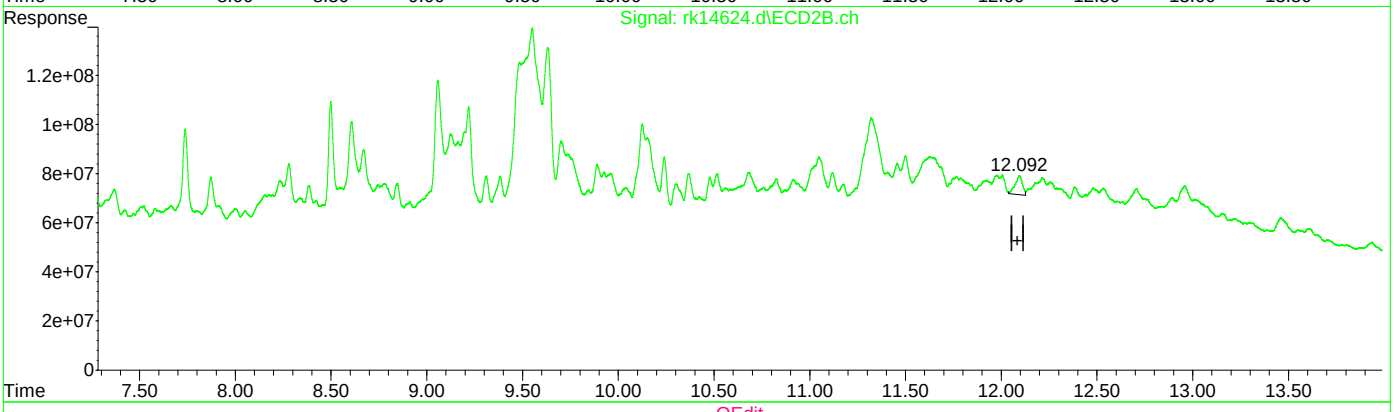
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14624.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 7:35 pm
Operator : chorngli
Sample : jd49400-1
Misc : op41180,grk359,15.3,,,10,10
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:20:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)

10.328min 2.948 ppb m

response 100557038

(51) Decachlorobiphenyl #2 (S)

12.092min 2.584 ppb m

response 202544647

(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 00:54:32 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/15/22 16:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109595.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 12:07 am
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4272,11.05,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:58:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.495f	47929266	43.643	PPM	m
Spiked Amount 50.000		Recovery = 87.29%			
10) S 5a-Androstane	10.208f	159301837	212.616	PPM	m
Spiked Amount 50.000		Recovery = 425.23%			
Target Compounds					
1) H TPH-DRO	8.430	52161955398	83897.831	PPM	
2) H TPH-DRO (C10-C44)	13.340	56716973863	91224.170	PPM	
4) H TPH-ORO (>C28-C40)	15.830	4192093790	6742.607	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

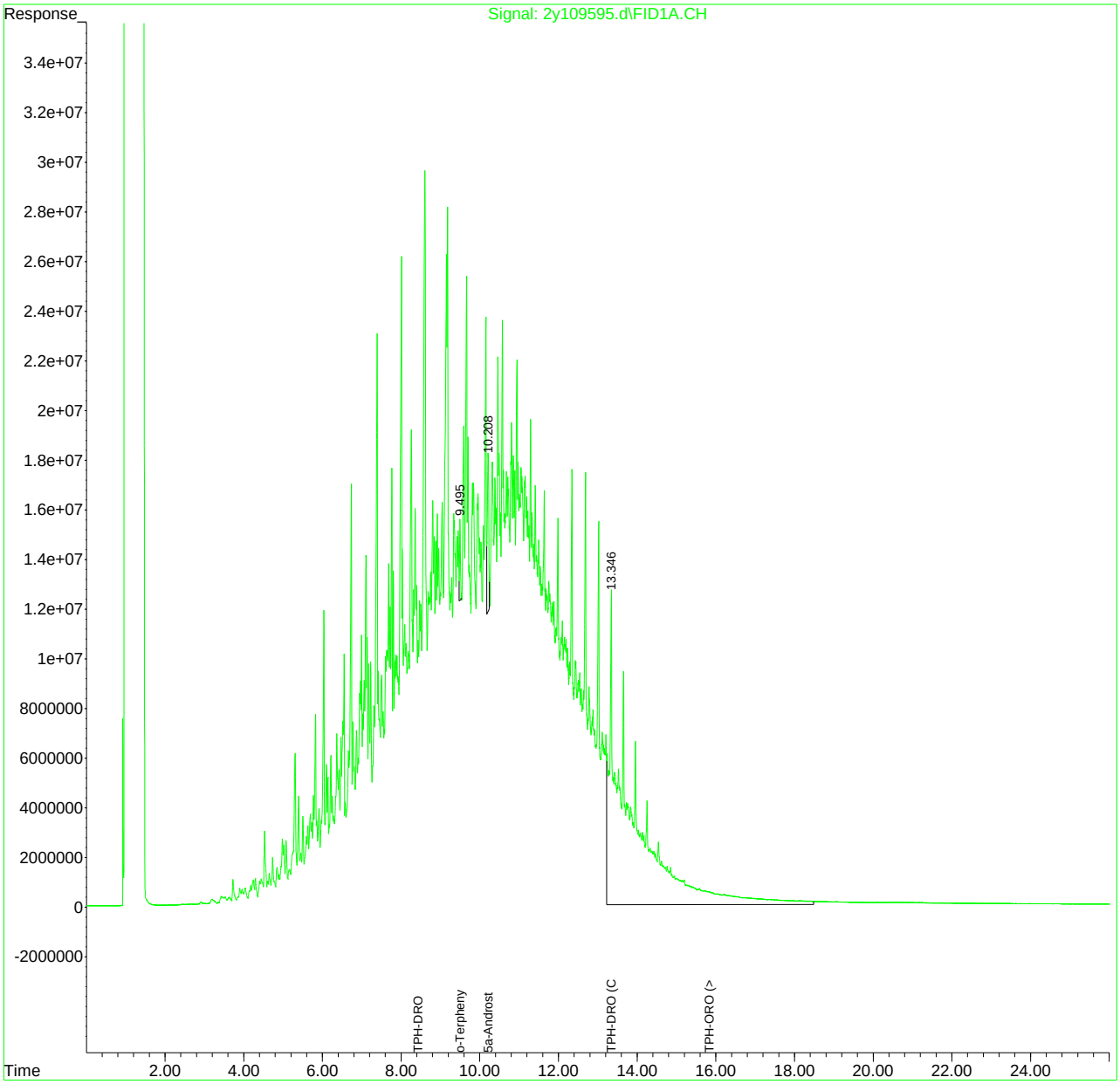
9.1.2
9

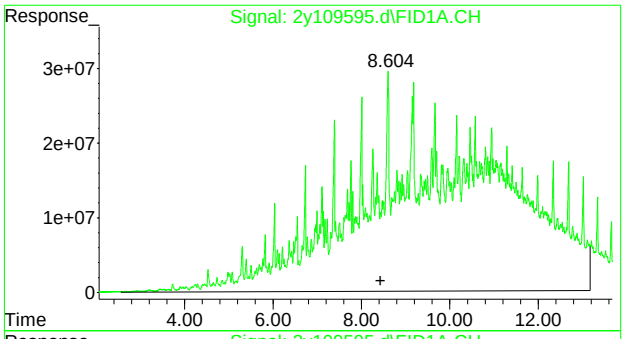
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109595.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 12:07 am
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4272,11.05,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:58:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

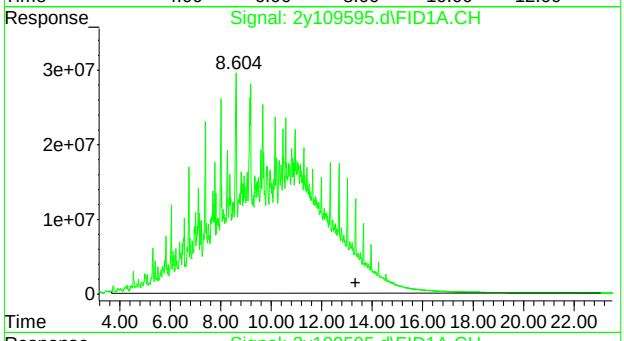
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





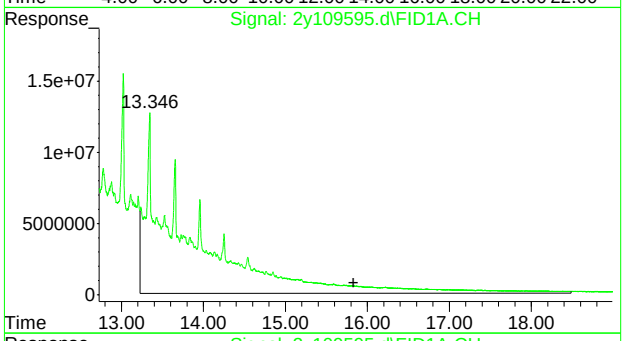
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 52161955398
Conc: 83897.83 PPM



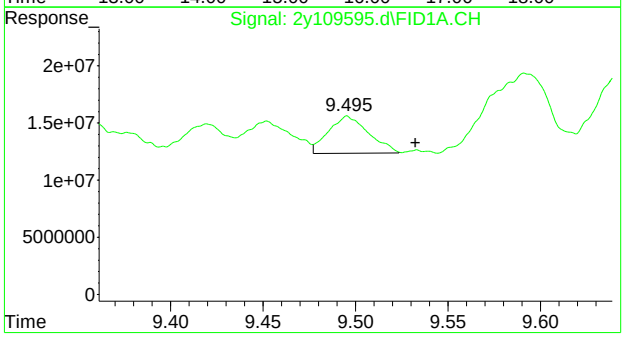
#2 TPH-DRO (C10-C44)

R.T.: 13.340 min
Delta R.T.: 0.000 min
Response: 56716973863
Conc: 91224.17 PPM



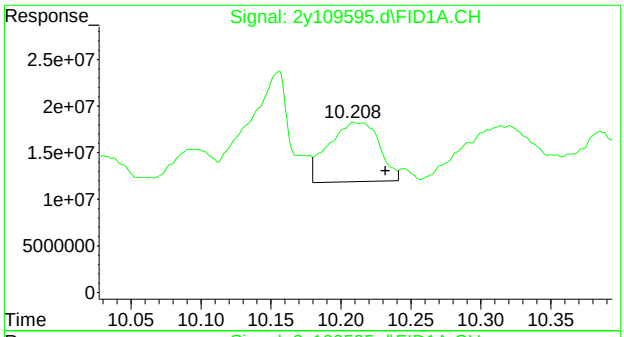
#4 TPH-ORO (>C28-C40)

R.T.: 15.830 min
Delta R.T.: 0.000 min
Response: 4192093790
Conc: 6742.61 PPM



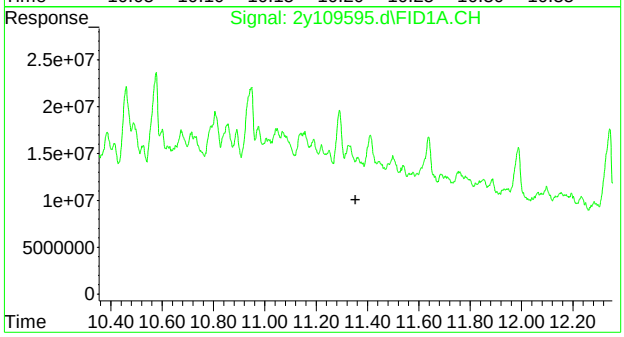
#9 o-Terphenyl

R.T.: 9.495 min
Delta R.T.: -0.037 min
Response: 47929266
Conc: 43.64 PPM m



#10 5a-Androstane

R.T.: 10.208 min
Delta R.T.: -0.023 min
Response: 159301837
Conc: 212.62 PPM m



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.1.2

9

Manual Integration Approval Summary

Sample Number:	JD49400-1	**Method:**	SW846 8015D
Lab FileID:	2Y109595.D	**Analyst approved:**	08/15/22 16:28 Gwendolyn Burns
Injection Time:	08/11/22 00:07	**Supervisor approved:**	08/15/22 16:28 Gwendolyn Burns

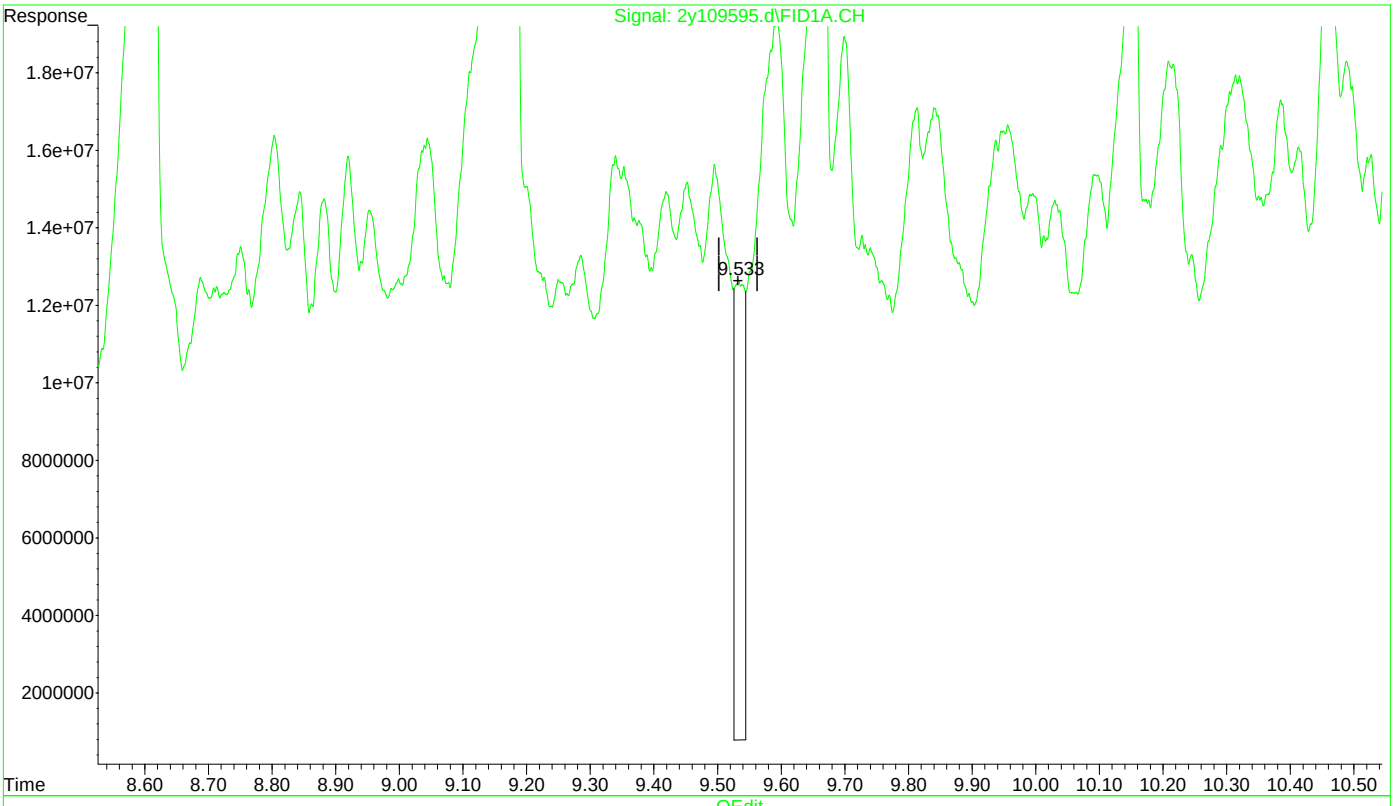
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.50	Poorly defined baseline
5a-Androstane	438-22-2	1	10.21	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109595.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 12:07 am
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4272,11.05,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:51:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.533min 119.085 PPM

response 130782060

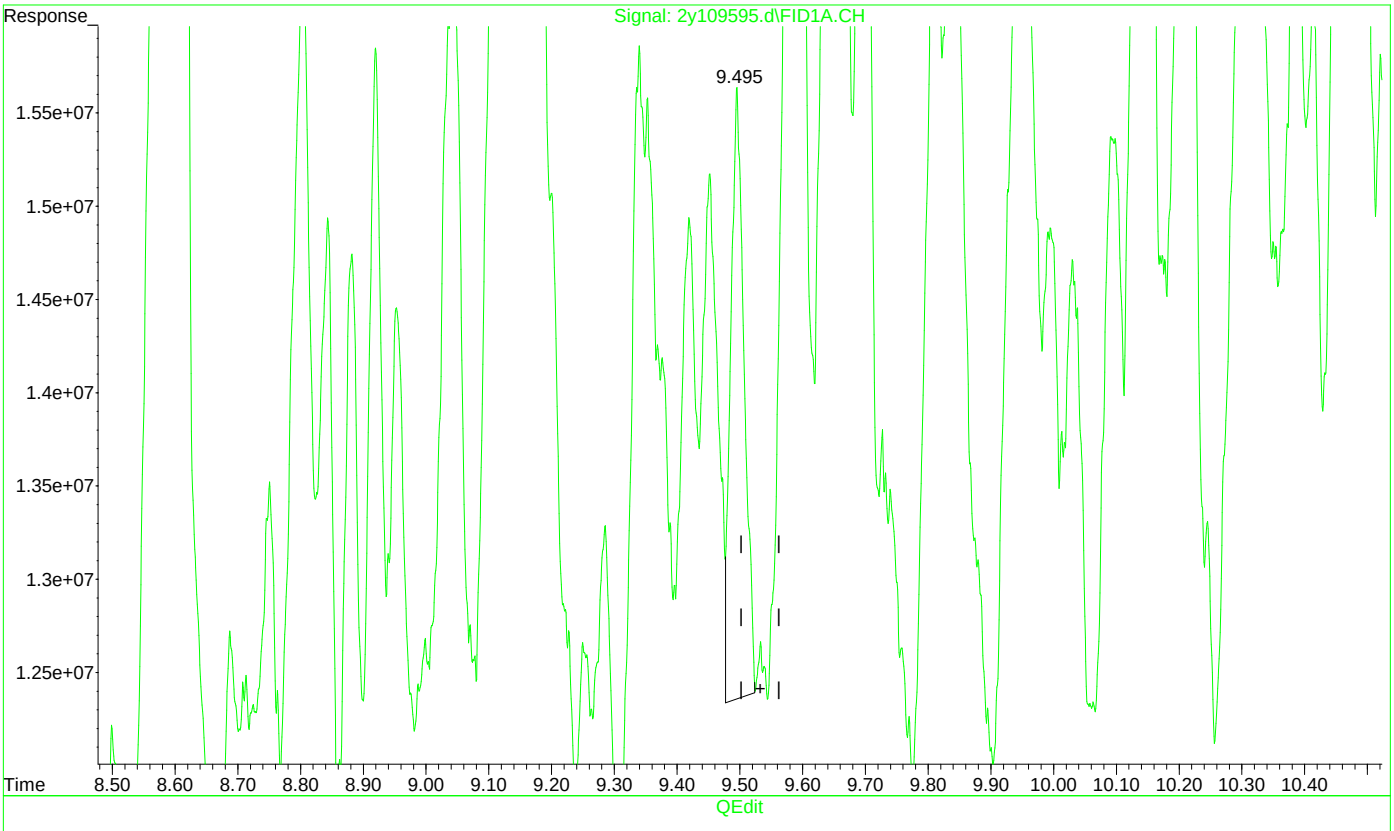
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:55:59 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109595.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 12:07 am
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4272,11.05,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:51:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.495min 43.643 PPM m

response 47929266

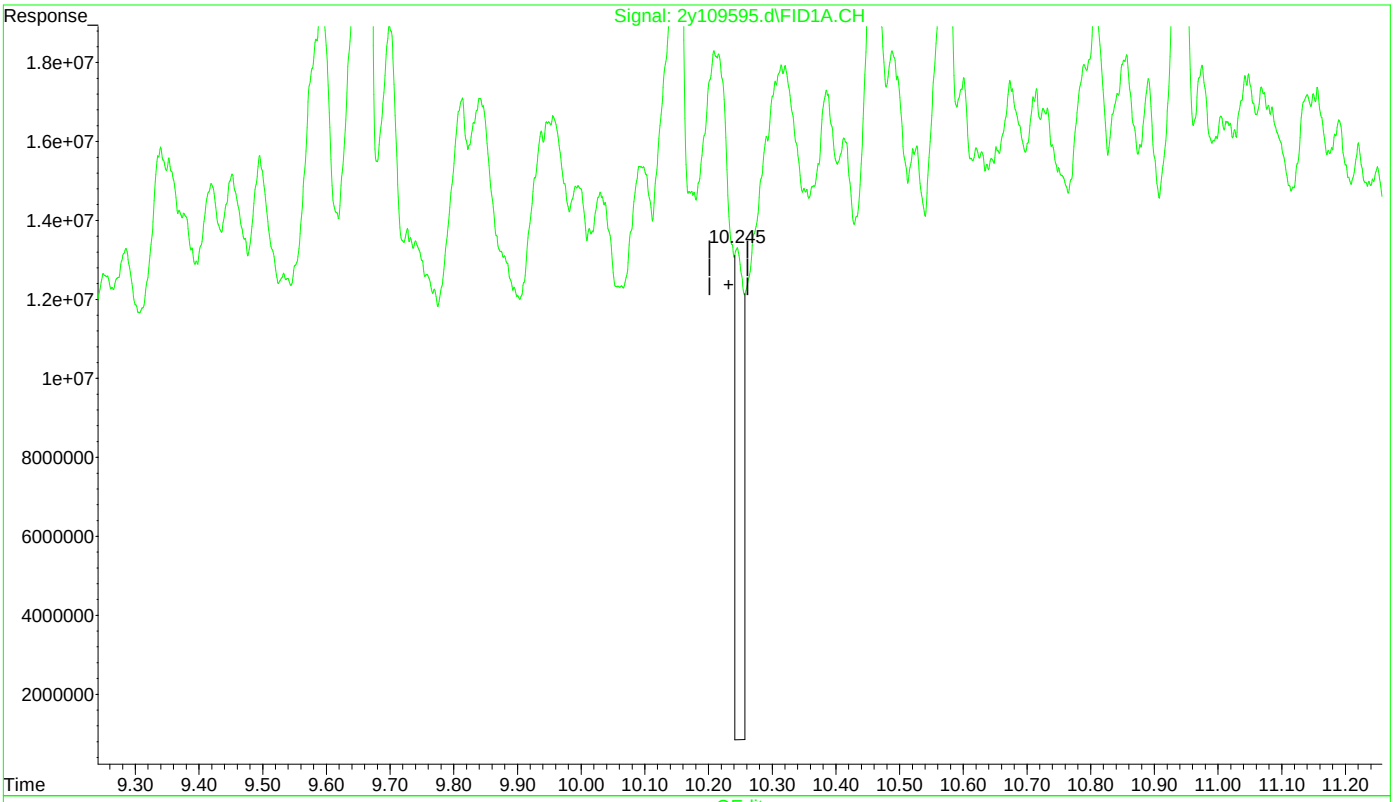
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:57:39 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109595.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 12:07 am
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4272,11.05,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:51:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.245min 156.045 PPM

response 116916551

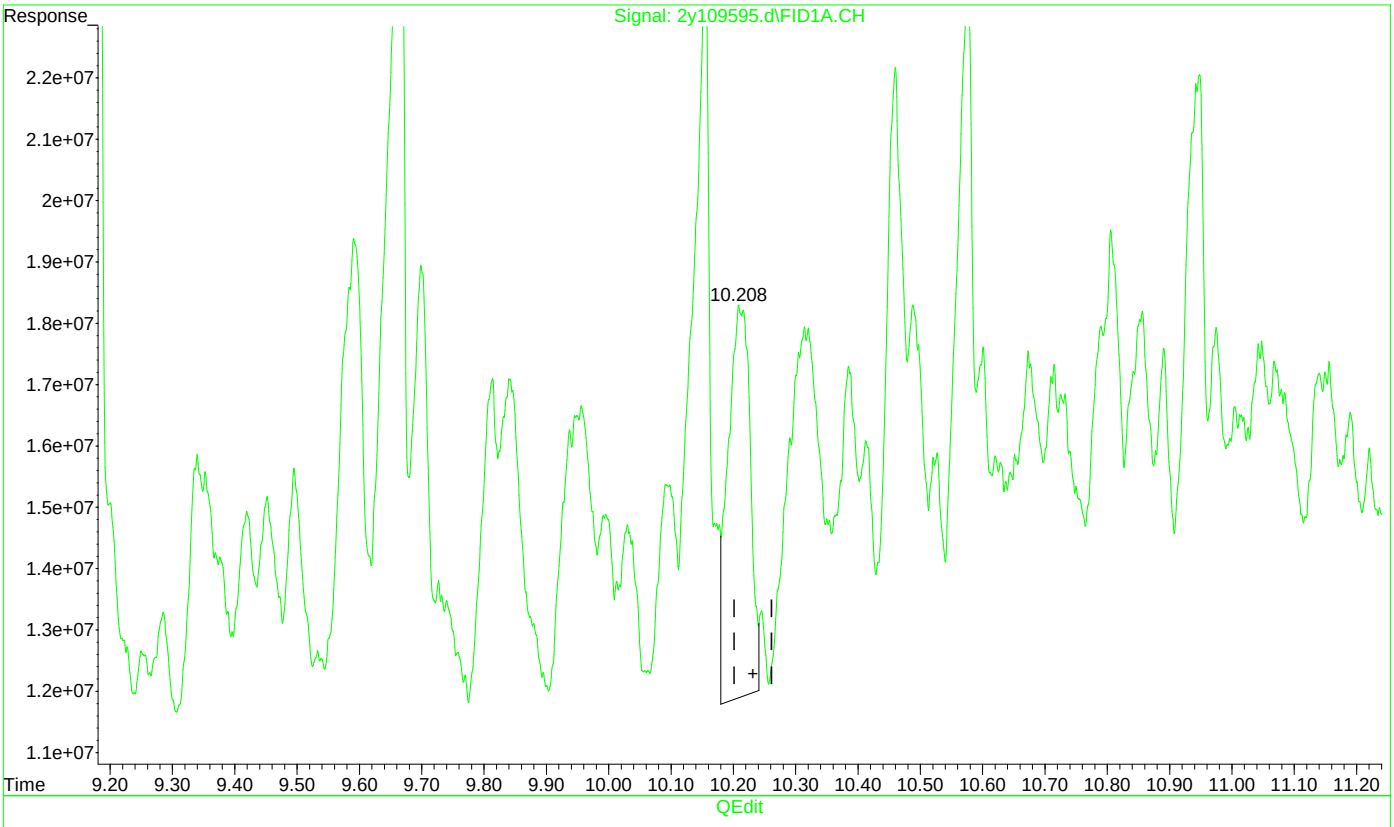
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:57:44 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109595.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 12:07 am
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4272,11.05,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:51:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.208min 212.616 PPM m

response 159301837

(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:58:35 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 08/15/22 16:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109626.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 10:39 pm
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4273,11.05,,,1,10
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:34:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.530	33759153	30.740	PPM	m
Spiked Amount 50.000		Recovery = 61.48%			
10) S 5a-Androstane	10.276f	4894028	6.532	PPM	m
Spiked Amount 50.000		Recovery = 13.06%			
Target Compounds					
1) H TPH-DRO	8.430	6135989784	9869.190	PPM	
2) H TPH-DRO (C10-C44)	13.340	7272228381	11696.728	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

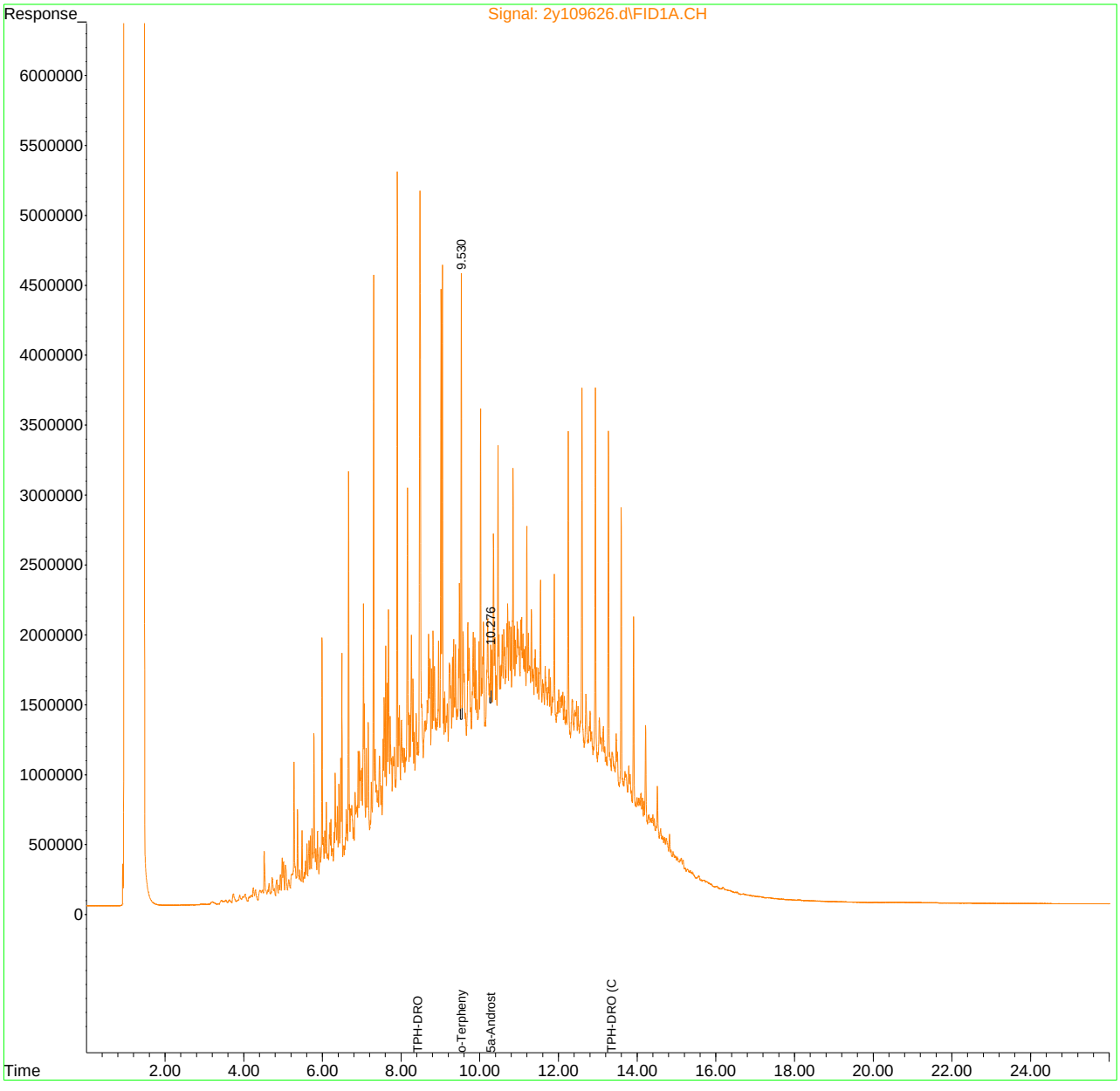
9.1.3
9

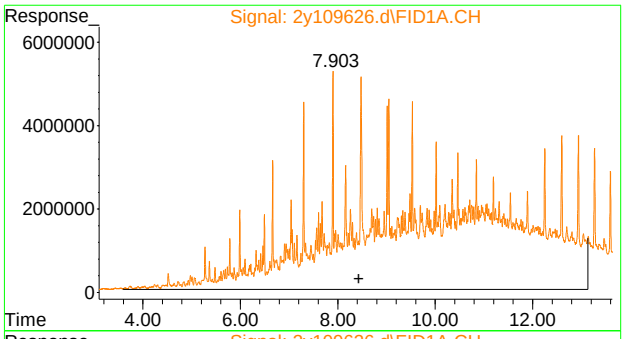
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109626.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 10:39 pm
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4273,11.05,,,1,10
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:34:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

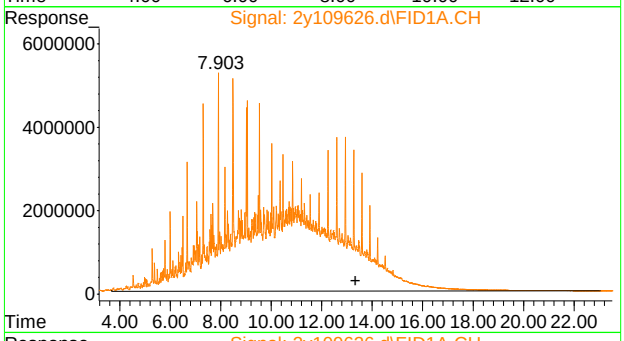
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





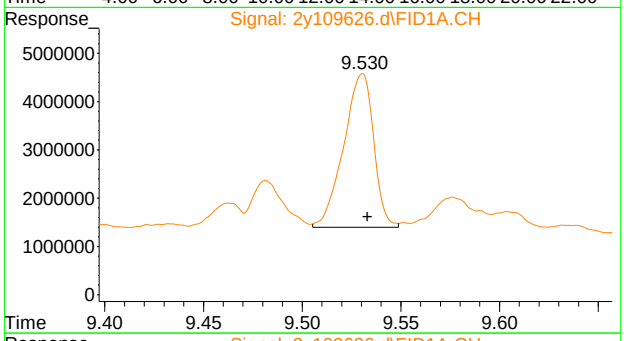
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 6135989784
Conc: 9869.19 PPM



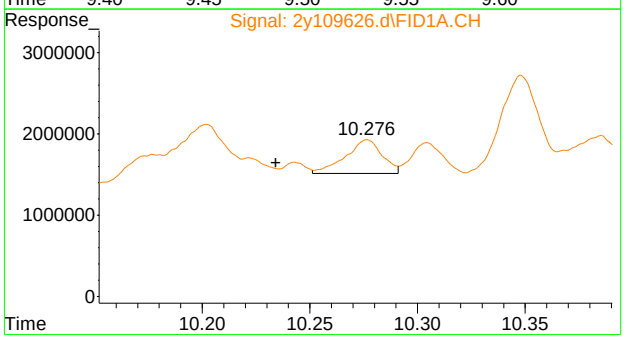
#2 TPH-DRO (C10-C44)

R.T.: 13.340 min
Delta R.T.: 0.000 min
Response: 7272228381
Conc: 11696.73 PPM



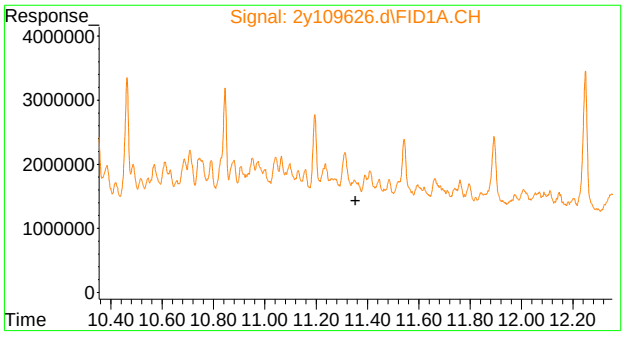
#9 o-Terphenyl

R.T.: 9.530 min
Delta R.T.: -0.003 min
Response: 33759153
Conc: 30.74 PPM m



#10 5a-Androstane

R.T.: 10.276 min
Delta R.T.: 0.042 min
Response: 4894028
Conc: 6.53 PPM m



#11 Tetracosane-d50

R.T.:	0.000 min
Exp R.T. :	11.353 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number:	JD49400-1	**Method:**	SW846 8015D
Lab FileID:	2Y109626.D	**Analyst approved:**	08/15/22 16:28 Gwendolyn Burns
Injection Time:	08/14/22 22:39	**Supervisor approved:**	08/15/22 16:28 Gwendolyn Burns

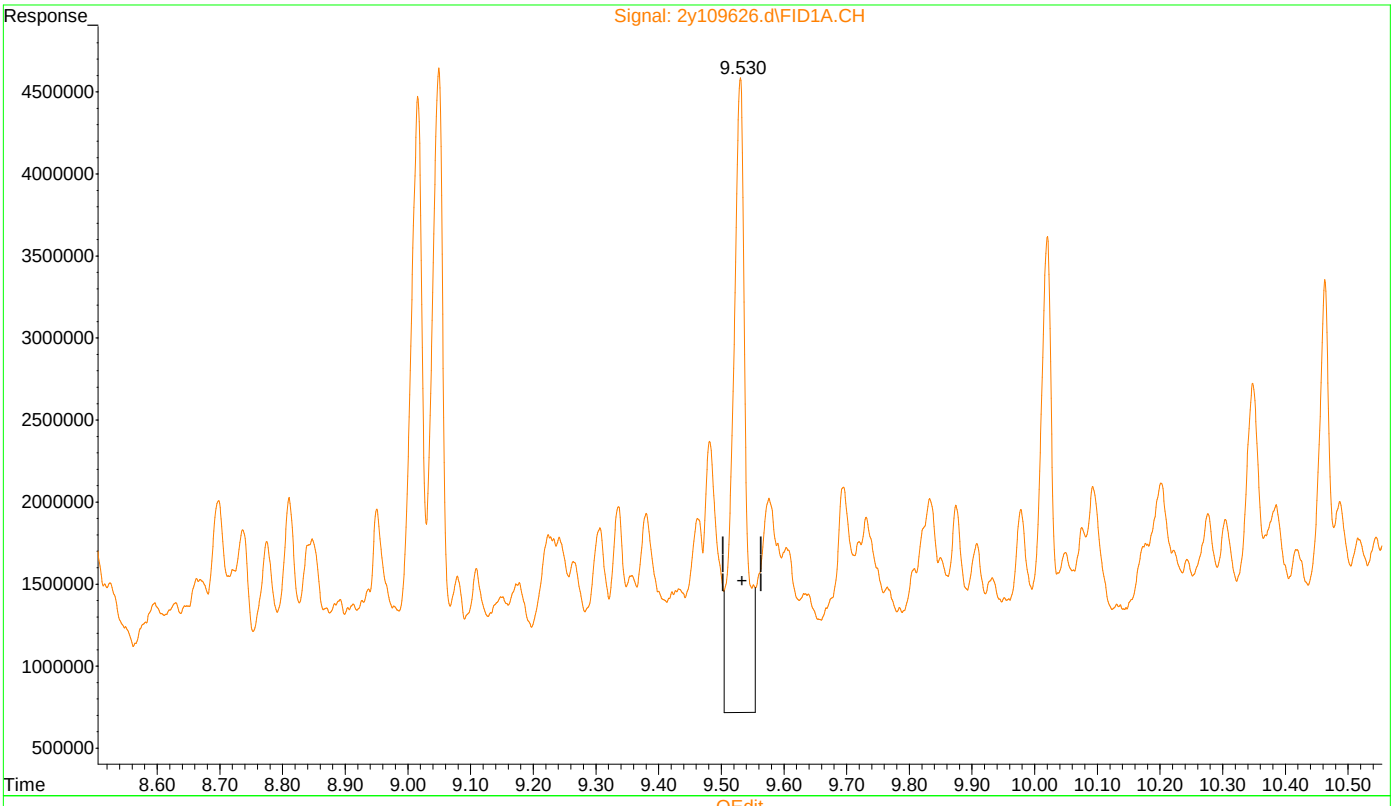
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline
5a-Androstane	438-22-2	1	10.28	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109626.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 10:39 pm
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4273,11.05,,,1,10
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:18:08 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.530min 49.382 PPM

response 54232707

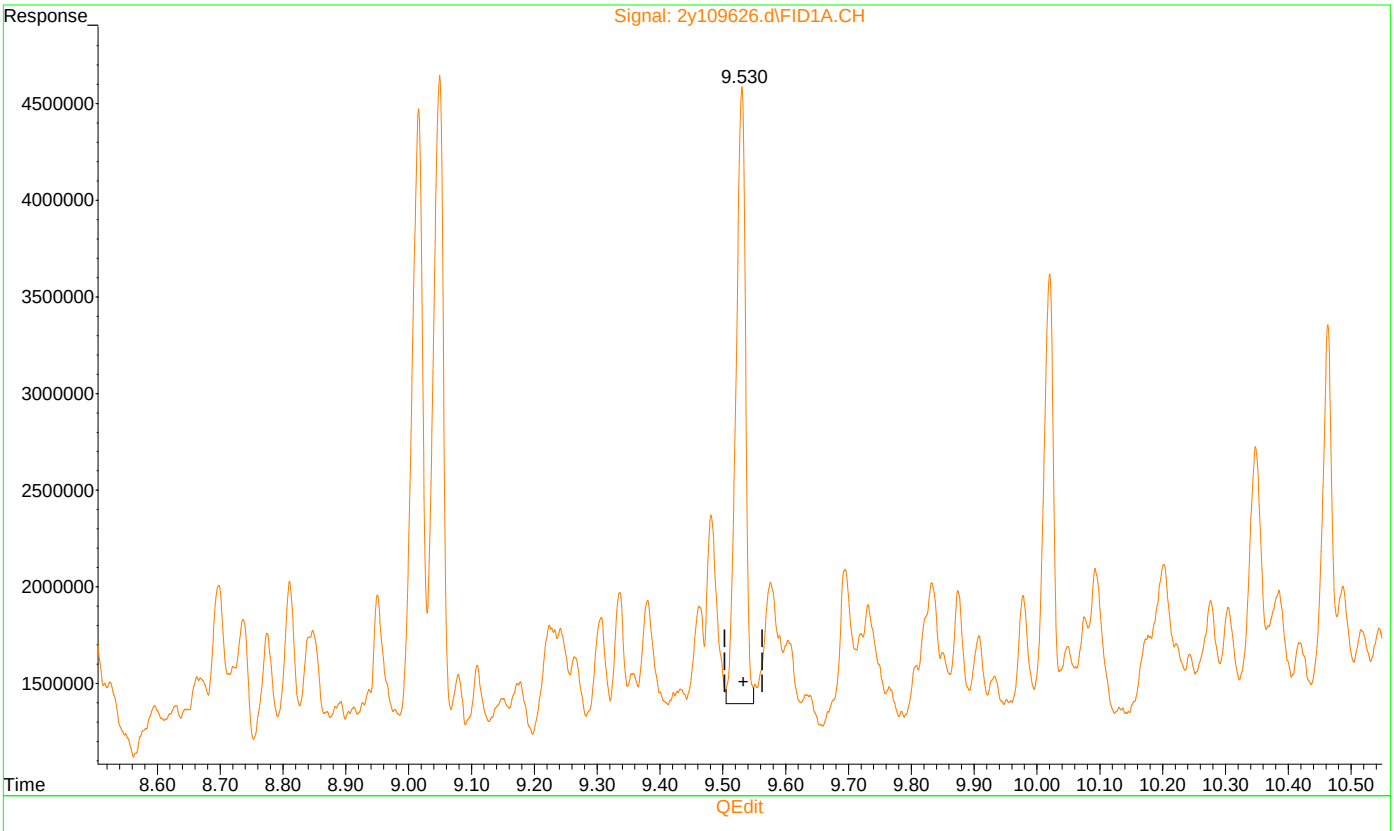
(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:30:20 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109626.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 10:39 pm
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4273,11.05,,,1,10
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:18:08 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.530min 30.740 PPM m

response 33759153

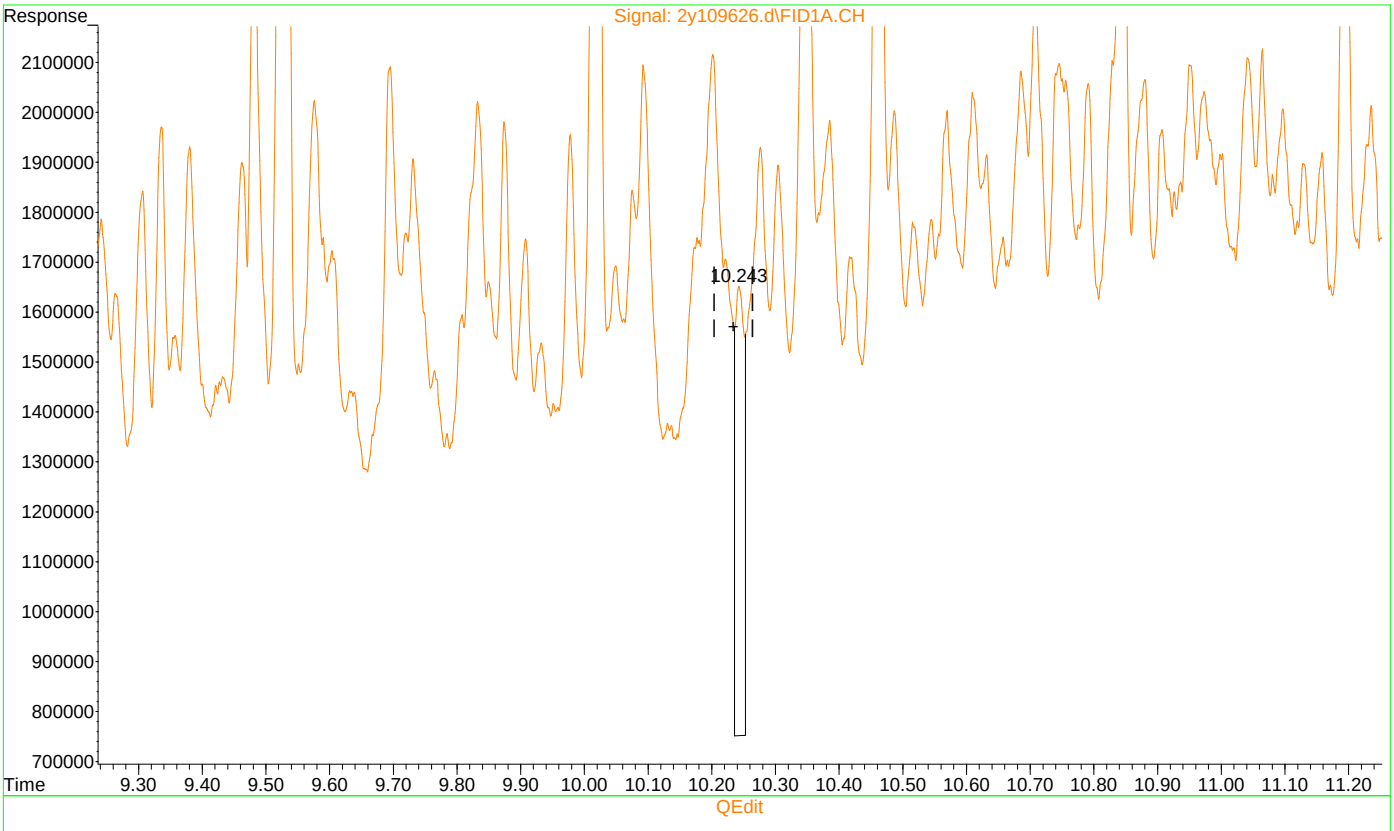
(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:30:55 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109626.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 10:39 pm
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4273,11.05,,,1,10
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:18:08 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.243min 11.749 PPM

response 8802726

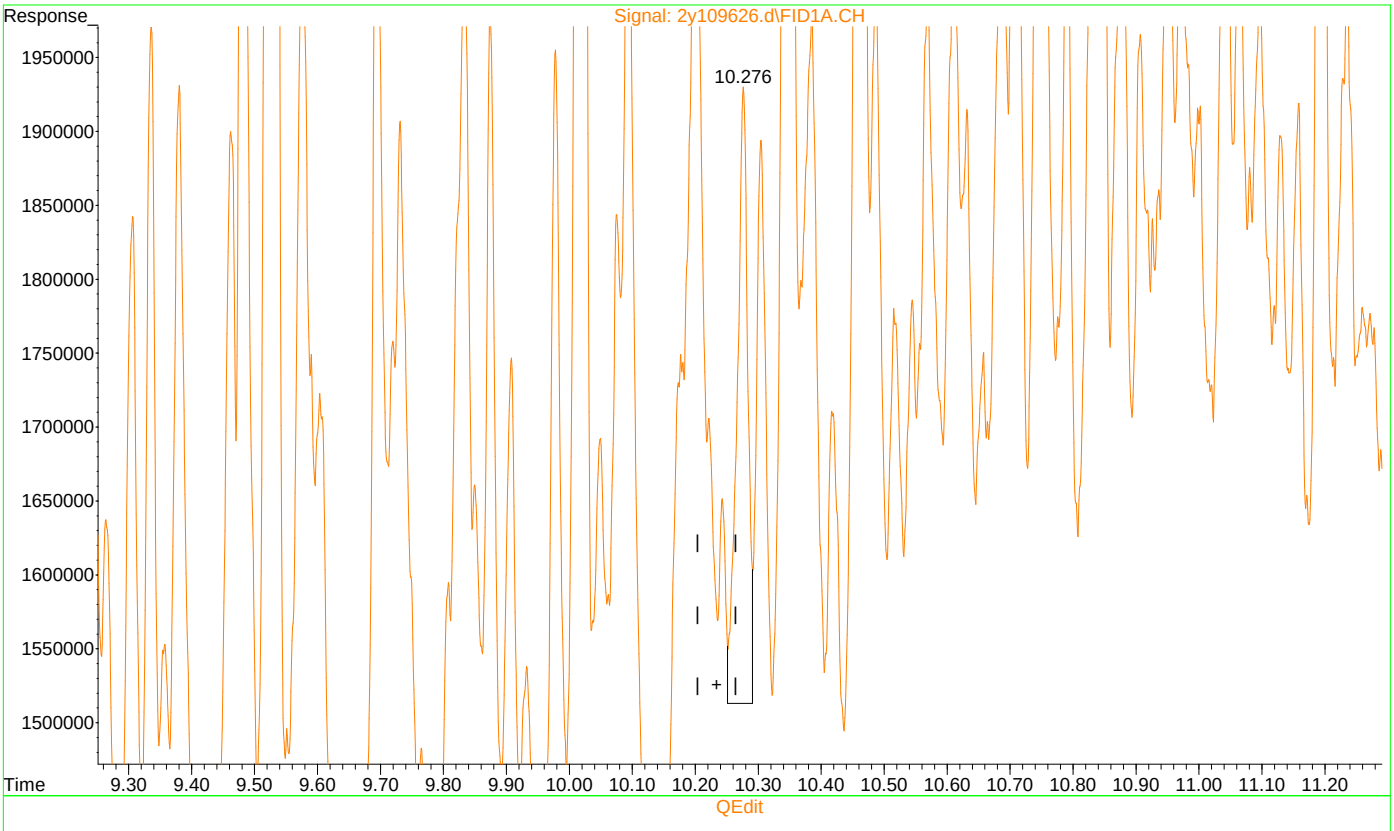
(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:30:58 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109626.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 10:39 pm
Operator : thomasl
Sample : jd49400-1
Misc : op41170,g2y4273,11.05,,,1,10
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:18:08 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.276min 6.532 PPM m

response 4894028

(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:33:35 2022

Quantitation Report (QT Reviewed)

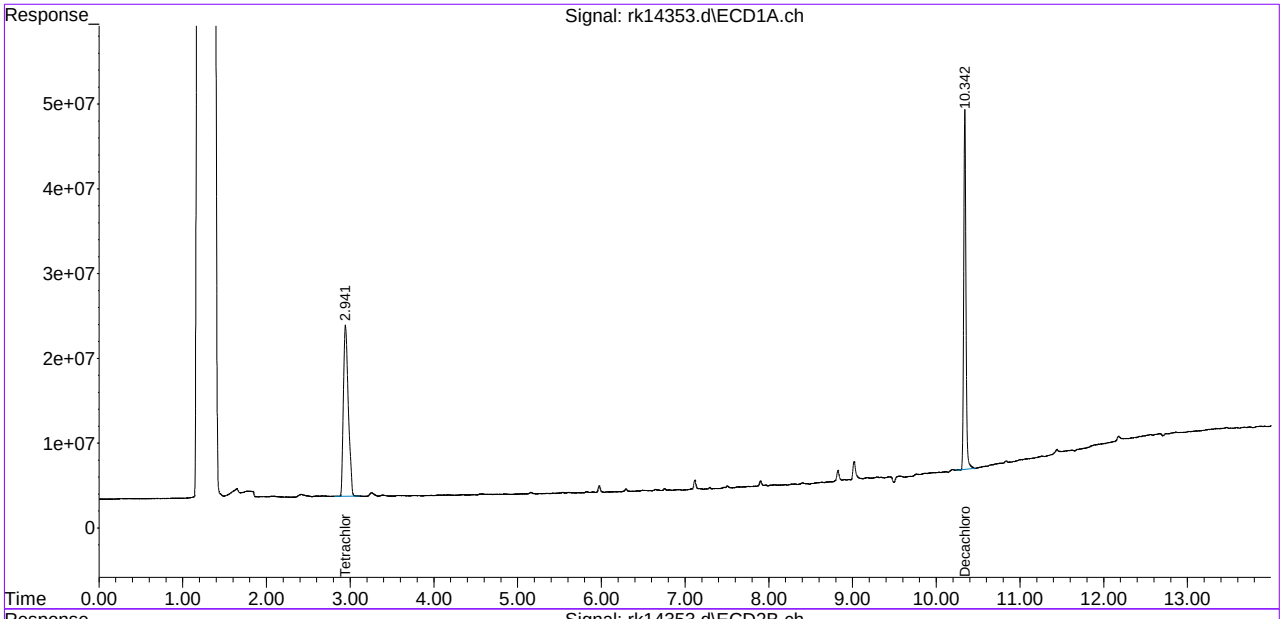
```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14353.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   1:52 am
Operator  : chorngli
Sample    : op41180-mb1
Misc      : op41180,grk355,15.0,,,10,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:00:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

      Compound         RT#1      RT#2    Resp#1   Resp#2     ppb      ppb
  ---------------------------------------------------------------------------

  System Monitoring Compounds
 1) S   Tetrachlo...    2.943     3.619   826.0E6 2522.2E6   24.004    26.647
  Spiked Amount   40.000                  Recovery     =   60.01%    66.62%
51) S   Decachlor...   10.342    12.085   789.6E6 2022.3E6   23.146    25.803
  Spiked Amount   40.000                  Recovery     =   57.87%    64.51%

  Target Compounds
  ---------------------------------------------------------------------------

  (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%  (m)=manual int.
```

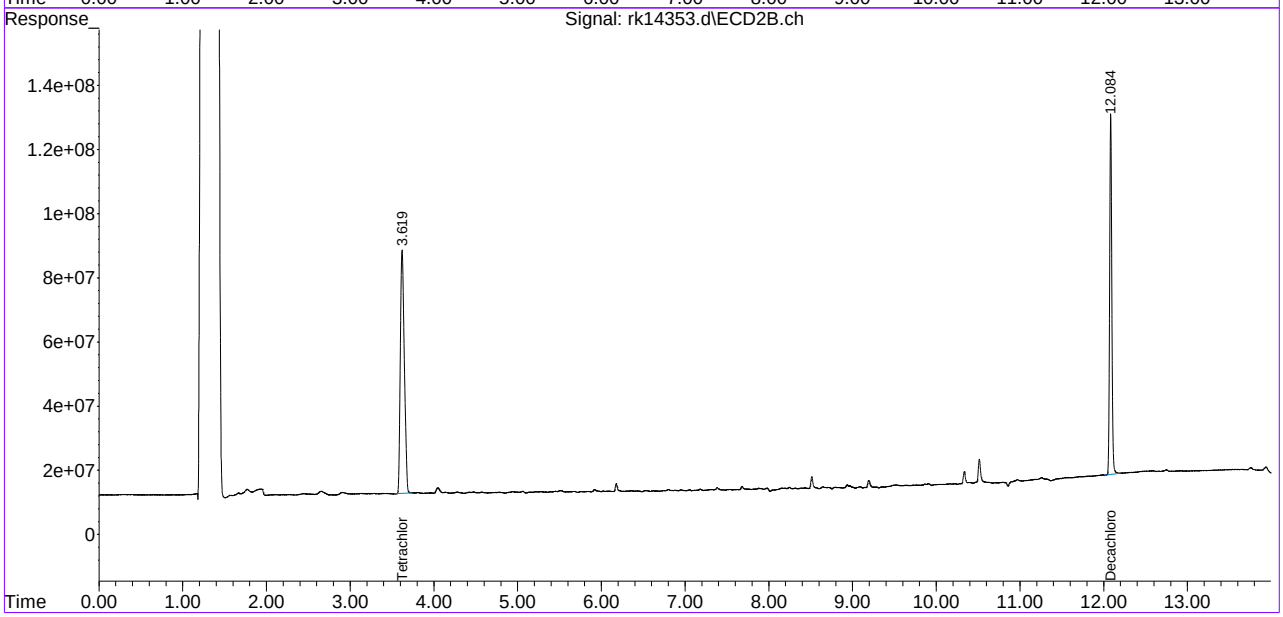
Quantitation Report (QT Reviewed)

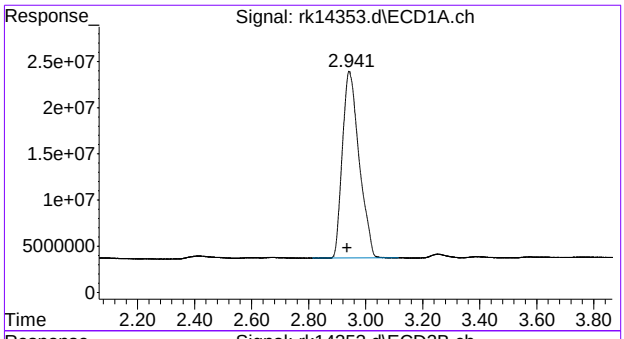
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14353.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 1:52 am
Operator : chorngli
Sample : op41180-mb1
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:00:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

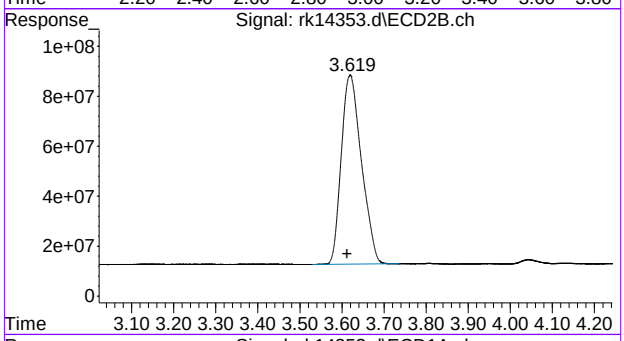






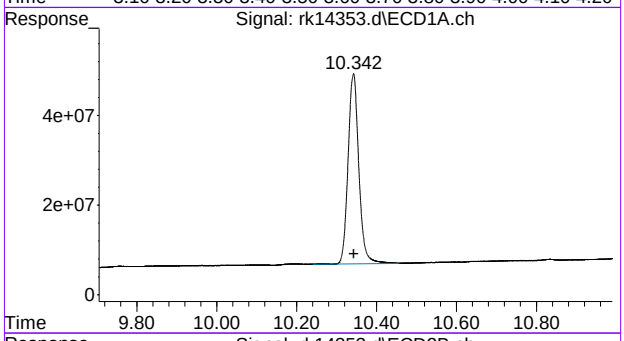
#1 Tetrachloro-m-xylene

R.T.: 2.943 min
Delta R.T.: 0.008 min
Response: 825962694
Conc: 24.00 ppb



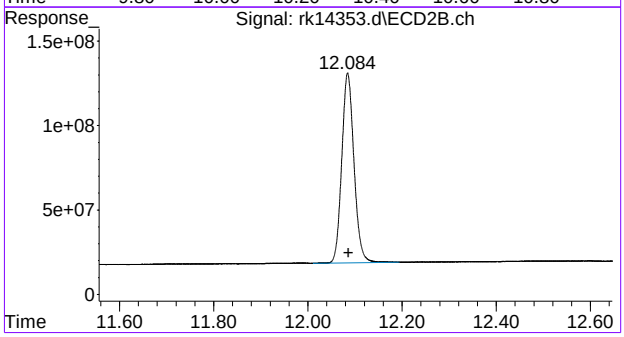
#1 Tetrachloro-m-xylene

R.T.: 3.619 min
Delta R.T.: 0.007 min
Response: 2522236946
Conc: 26.65 ppb



#51 Decachlorobiphenyl

R.T.: 10.342 min
Delta R.T.: 0.000 min
Response: 789580352
Conc: 23.15 ppb



#51 Decachlorobiphenyl

R.T.: 12.085 min
Delta R.T.: -0.002 min
Response: 2022251890
Conc: 25.80 ppb

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/18/22 15:41

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\sarah\rk361\
Data File : rk14686.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 17 Aug 2022   1:33 pm
Operator  : chorngli
Sample    : op41180-mb1
Misc      : op41180,grk360,15.0,,,10,1
ALS Vial  : 94   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 23:20:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

      Compound         RT#1      RT#2    Resp#1   Resp#2     ppb      ppb
  ---------------------------------------------------------------------------

  System Monitoring Compounds
 1) S   Tetrachlo...    2.943     3.617   748.8E6 2057.5E6   21.763    21.737
  Spiked Amount   40.000                  Recovery     =   54.41%    54.34%
51) S   Decachlor...   10.349    12.082   442.0E6 1270.7E6   12.957m   16.214m#
  Spiked Amount   40.000                  Recovery     =   32.39%    40.53%

  Target Compounds
  ---------------------------------------------------------------------------

  (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%  (m)=manual int.
```

9.2.2

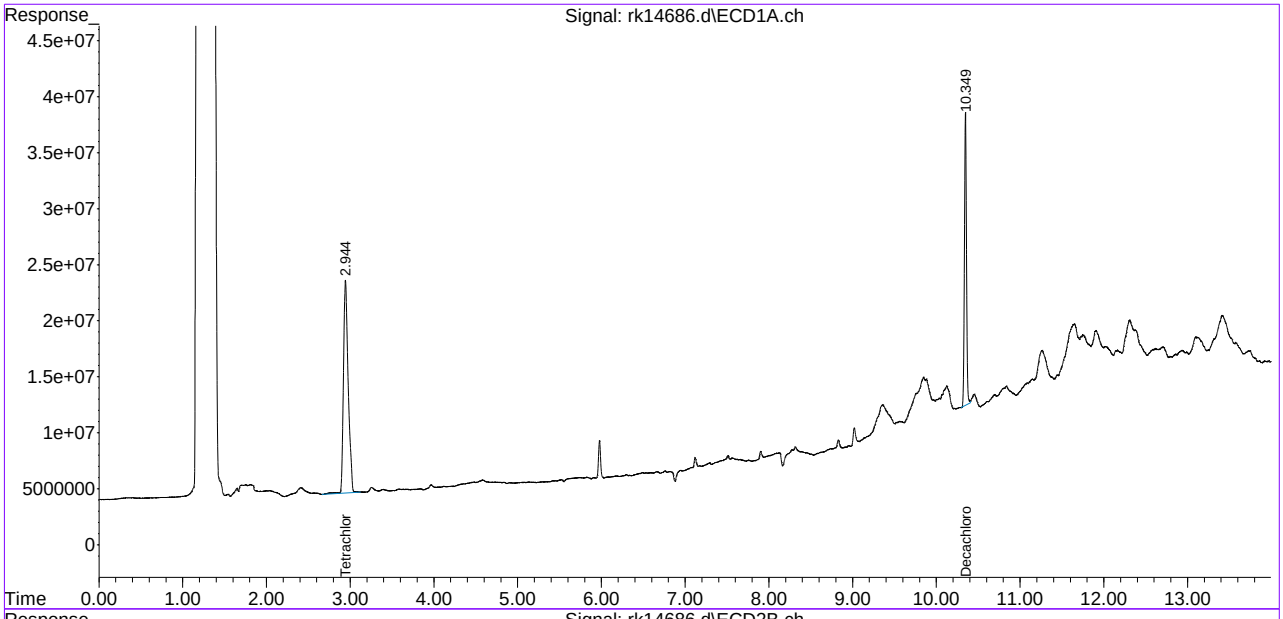
9

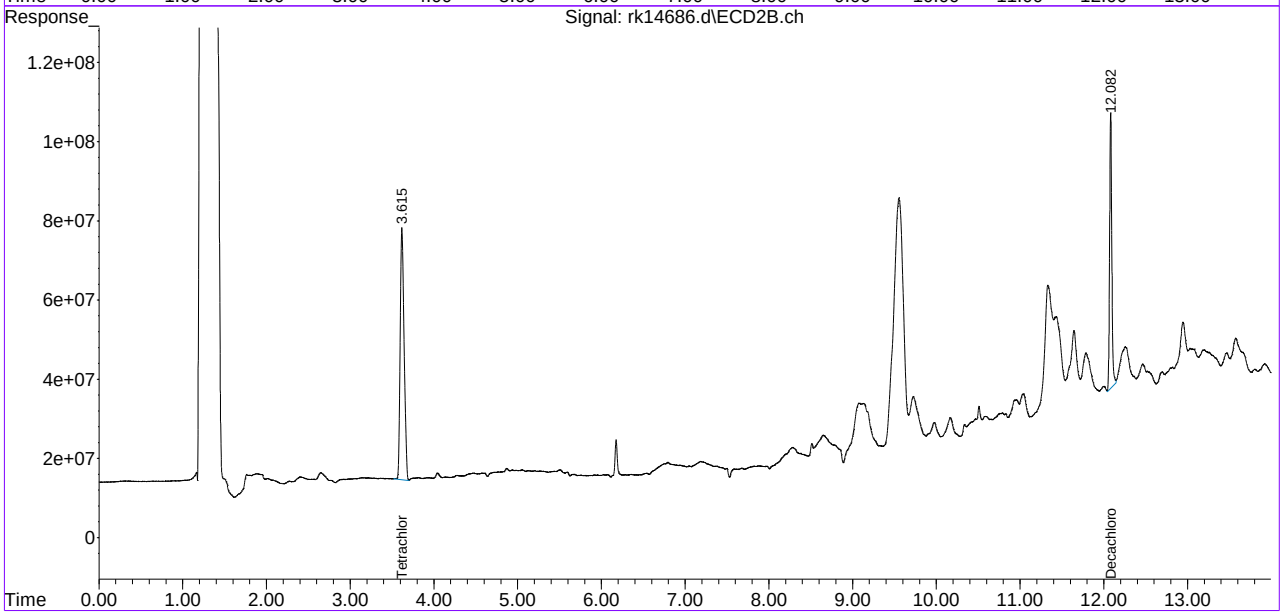
Quantitation Report (QT Reviewed)

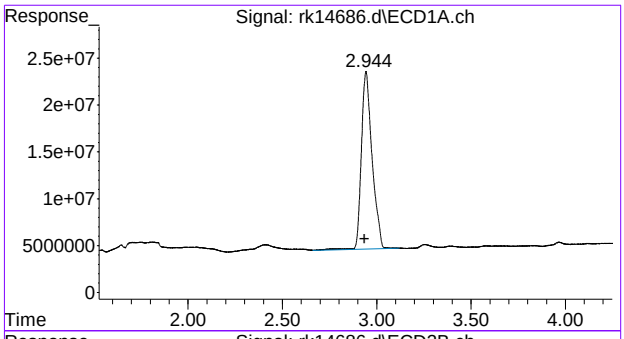
Data Path : C:\msdchem\1\data\sarah\rk361\
Data File : rk14686.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 1:33 pm
Operator : chorngli
Sample : op41180-mb1
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 23:20:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

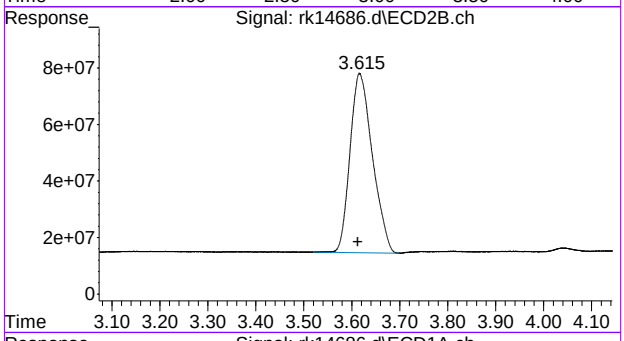






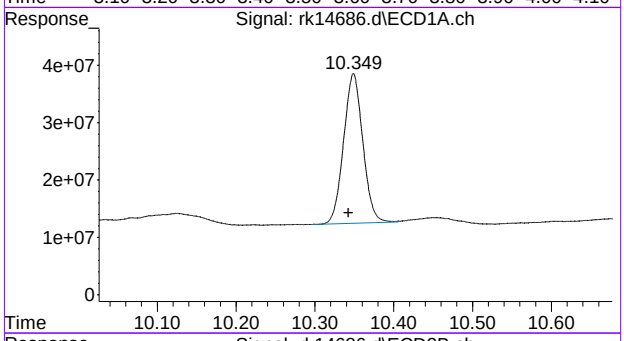
#1 Tetrachloro-m-xylene

R.T.: 2.943 min
Delta R.T.: 0.008 min
Response: 748839404
Conc: 21.76 ppb



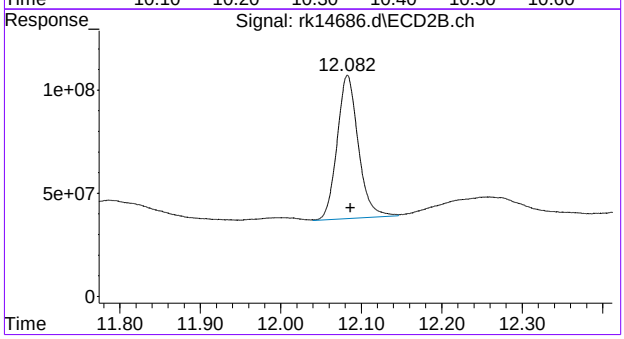
#1 Tetrachloro-m-xylene

R.T.: 3.617 min
Delta R.T.: 0.004 min
Response: 2057475302
Conc: 21.74 ppb



#51 Decachlorobiphenyl

R.T.: 10.349 min
Delta R.T.: 0.006 min
Response: 442019692
Conc: 12.96 ppb m



#51 Decachlorobiphenyl

R.T.: 12.082 min
Delta R.T.: -0.004 min
Response: 1270697649
Conc: 16.21 ppb m

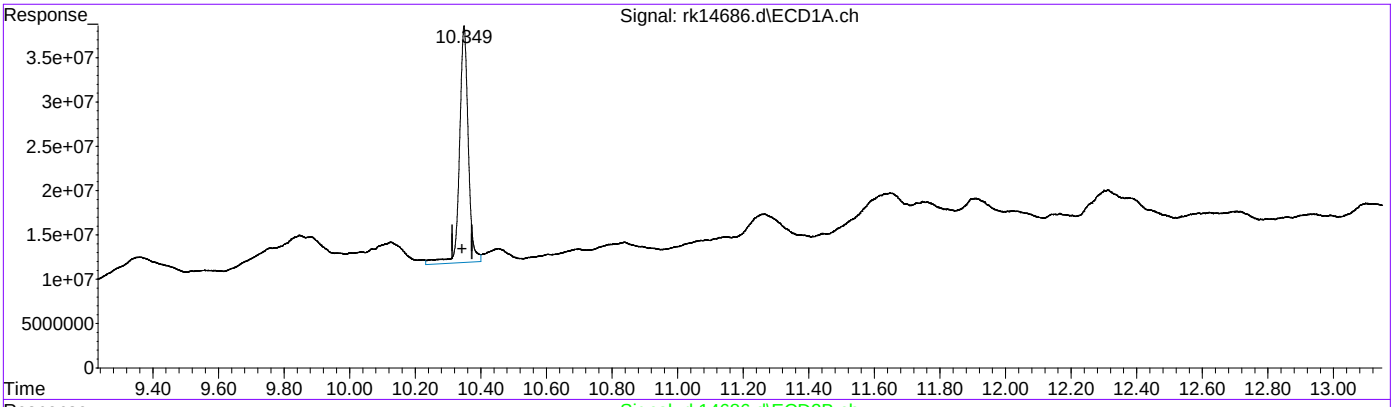
Manual Integration Approval Summary

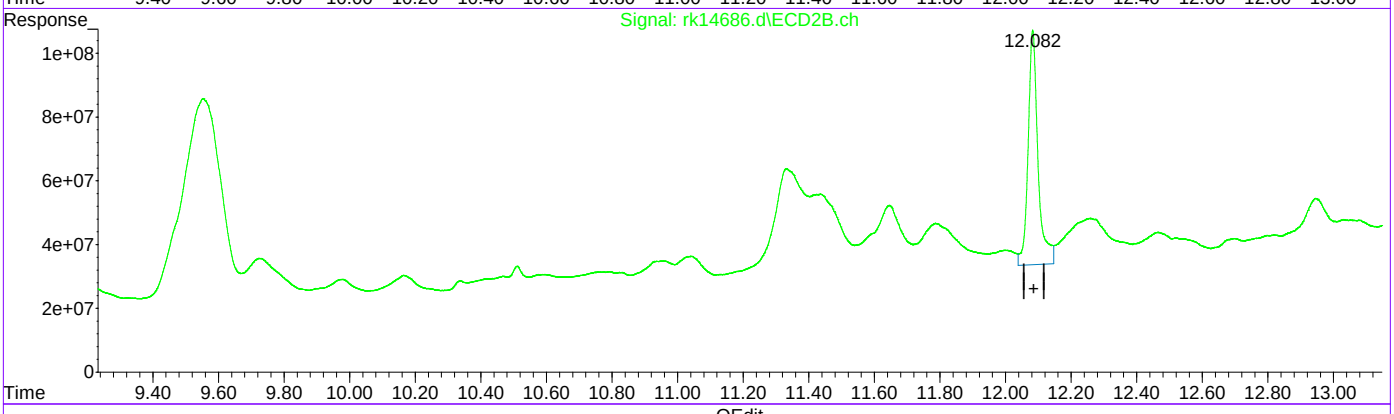
Sample Number:	OP41180-MB1	**Method:**	SW846 8082A
Lab FileID:	RK14686.D	**Analyst approved:**	08/18/22 15:36 Gwendolyn Burns
Injection Time:	08/17/22 13:33	**Supervisor approved:**	08/18/22 15:41 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	1	10.35	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	12.08	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\rk361\
Data File : rk14686.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 17 Aug 2022   1:33 pm
Operator  : chorngli
Sample    : op41180-mb1
Misc      : op41180,grk360,15.0,,,10,1
ALS Vial  : 94   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 23:05:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(51) Decachlorobiphenyl (S)

10.349min 14.521 ppb

response 495360894

(51) Decachlorobiphenyl #2 (S)

12.083min 19.716 ppb

response 1545199430

(+) = Expected Retention Time

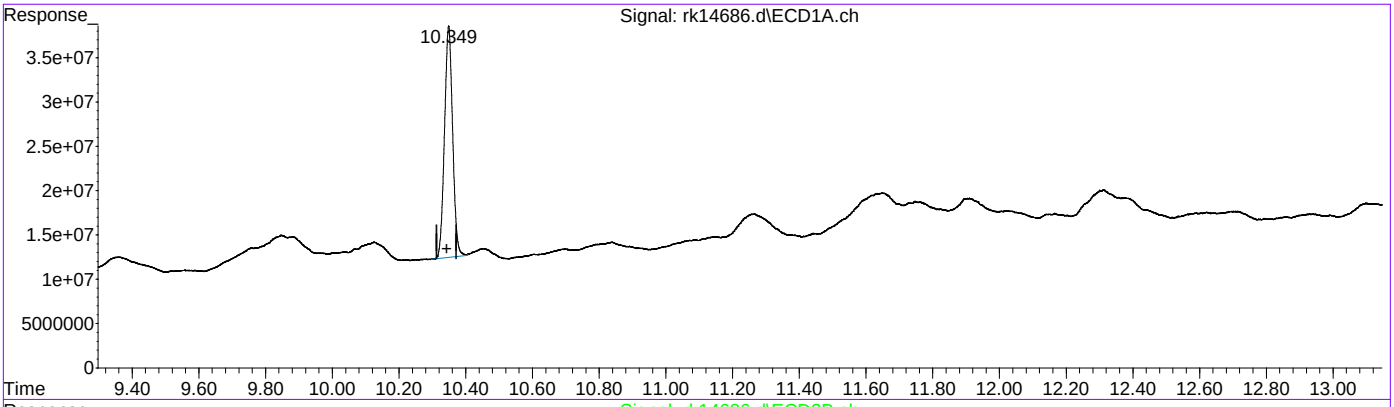
RKPCB339.M Wed Aug 17 23:20:10 2022

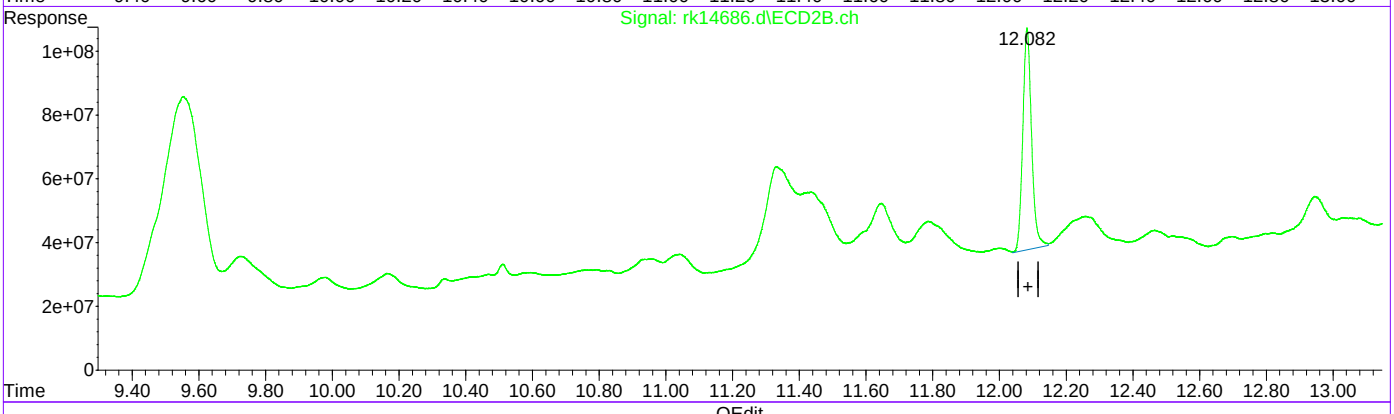
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\sarah\rk361\
Data File : rk14686.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 1:33 pm
Operator : chorngli
Sample : op41180-mb1
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 23:05:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)

10.349min 12.957 ppb m

response 442019692

(51) Decachlorobiphenyl #2 (S)

12.082min 16.214 ppb m

response 1270697649

(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 23:20:21 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 17:13

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109590.d
Signal(s) : FID1A.CH
Acq On    : 10 Aug 2022   6:16 pm
Operator  : thomasl
Sample    : op41170-mb1
Misc      : op41170,g2y4272,10.0,,,1,1
ALS Vial  : 22   Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title  :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  : 1UL
Signal Phase : RTX-1
Signal Info  : 30mX0.25mmX0.25um
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.540	17212317	15.673	PPM	m
Spiked Amount 50.000		Recovery = 31.35%			
10) S 5a-Androstane	10.238	14082203	18.795	PPM	m
Spiked Amount 50.000		Recovery = 37.59%			
Target Compounds					

(f)=RT Delta > 1/2 Window (m)=manual int.

9.2.3

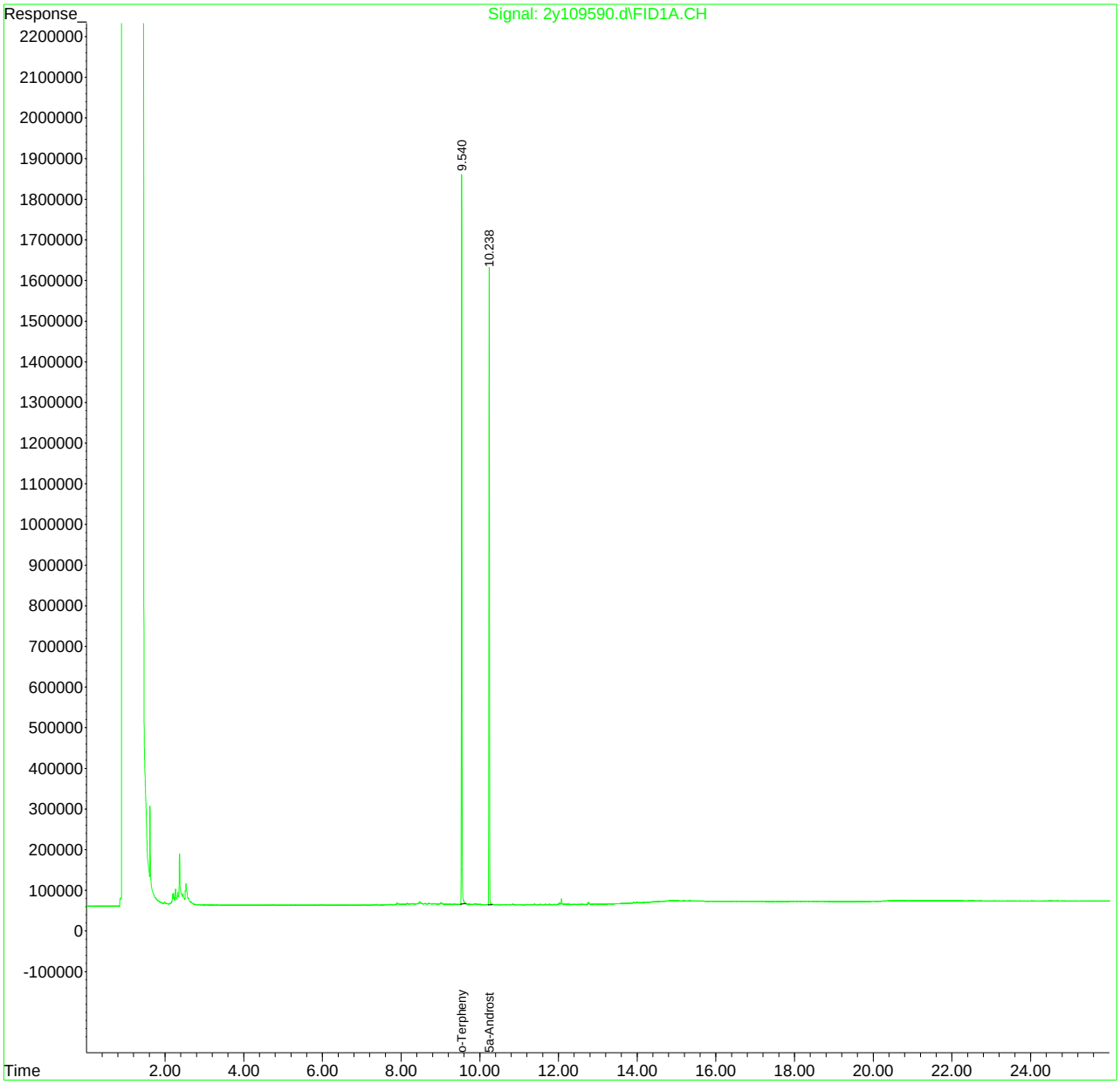
9

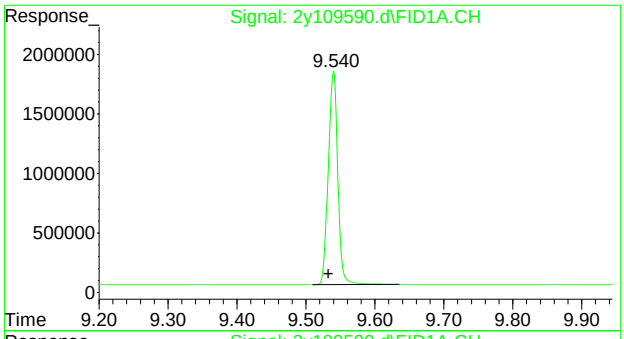
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109590.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:16 pm
Operator : thomasl
Sample : op41170-mb1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

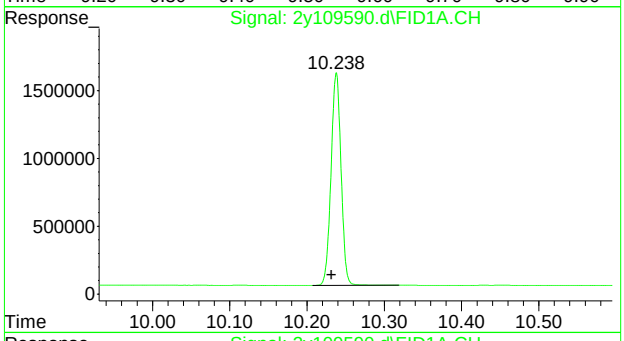
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





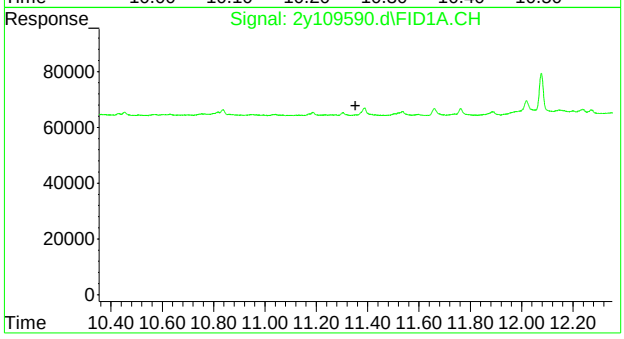
#9 o-Terphenyl

R.T.: 9.540 min
Delta R.T.: 0.007 min
Response: 17212317
Conc: 15.67 PPM m



#10 5a-Androstane

R.T.: 10.238 min
Delta R.T.: 0.006 min
Response: 14082203
Conc: 18.80 PPM m



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.2.3

9

Manual Integration Approval Summary

Sample Number:	OP41170-MB1	**Method:**	SW846 8015D
Lab FileID:	2Y109590.D	**Analyst approved:**	08/11/22 04:29 MaryAnne Loyola
Injection Time:	08/10/22 18:16	**Supervisor approved:**	08/11/22 17:13 Jason Savoie

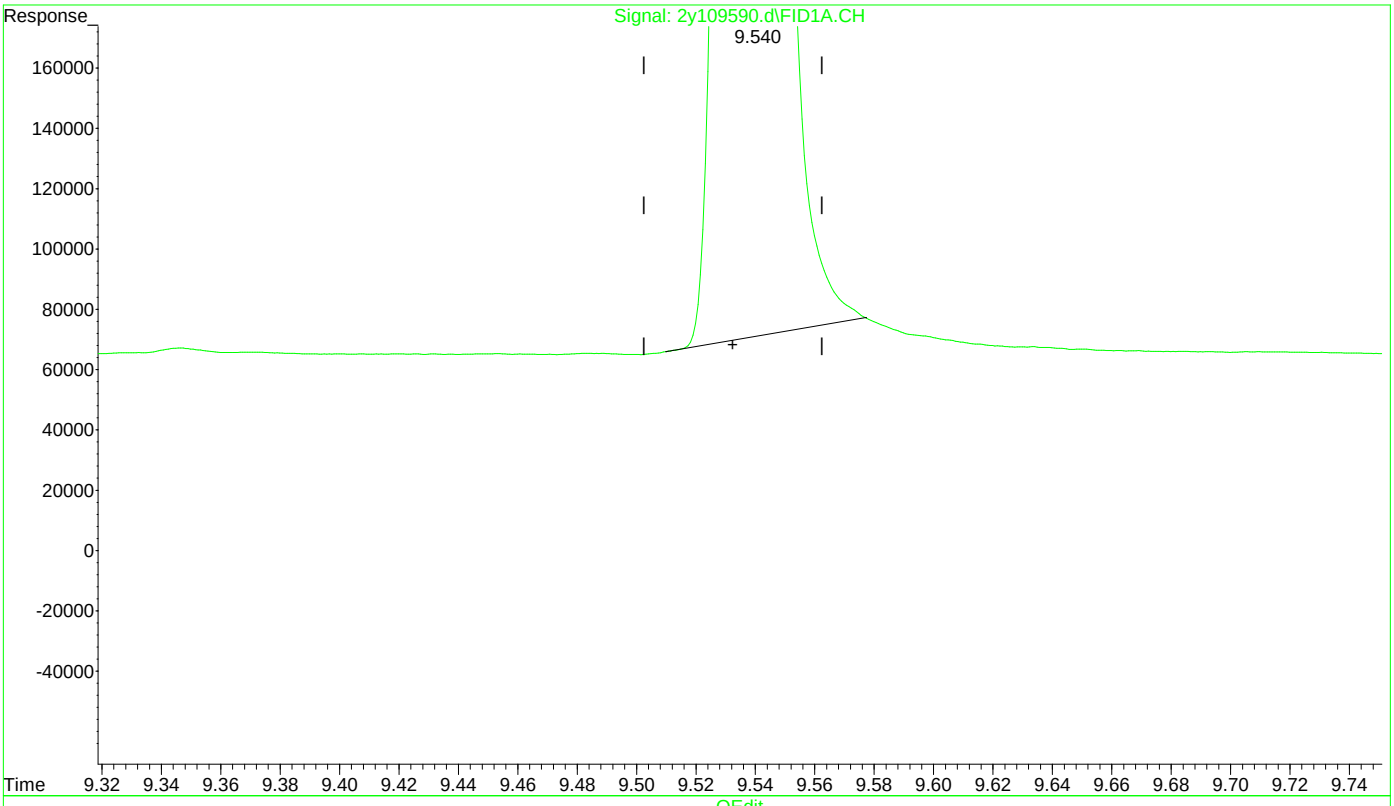
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.54	Poorly defined baseline
5a-Androstane	438-22-2	1	10.24	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109590.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:16 pm
Operator : thomasl
Sample : op41170-mb1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:48:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.540min 15.369 PPM

response 16878539

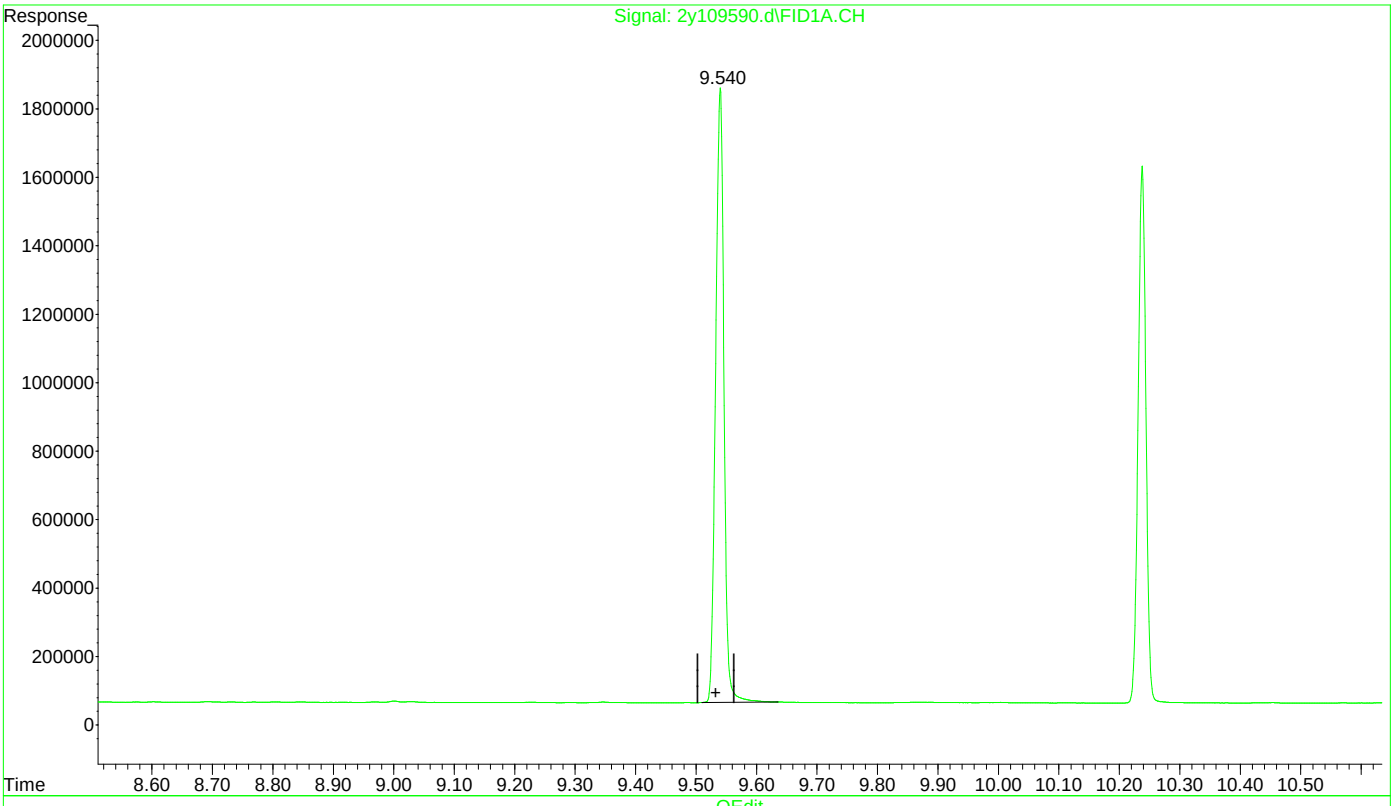
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:49:14 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109590.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:16 pm
Operator : thomasl
Sample : op41170-mb1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:48:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.540min 15.673 PPM m

response 17212317

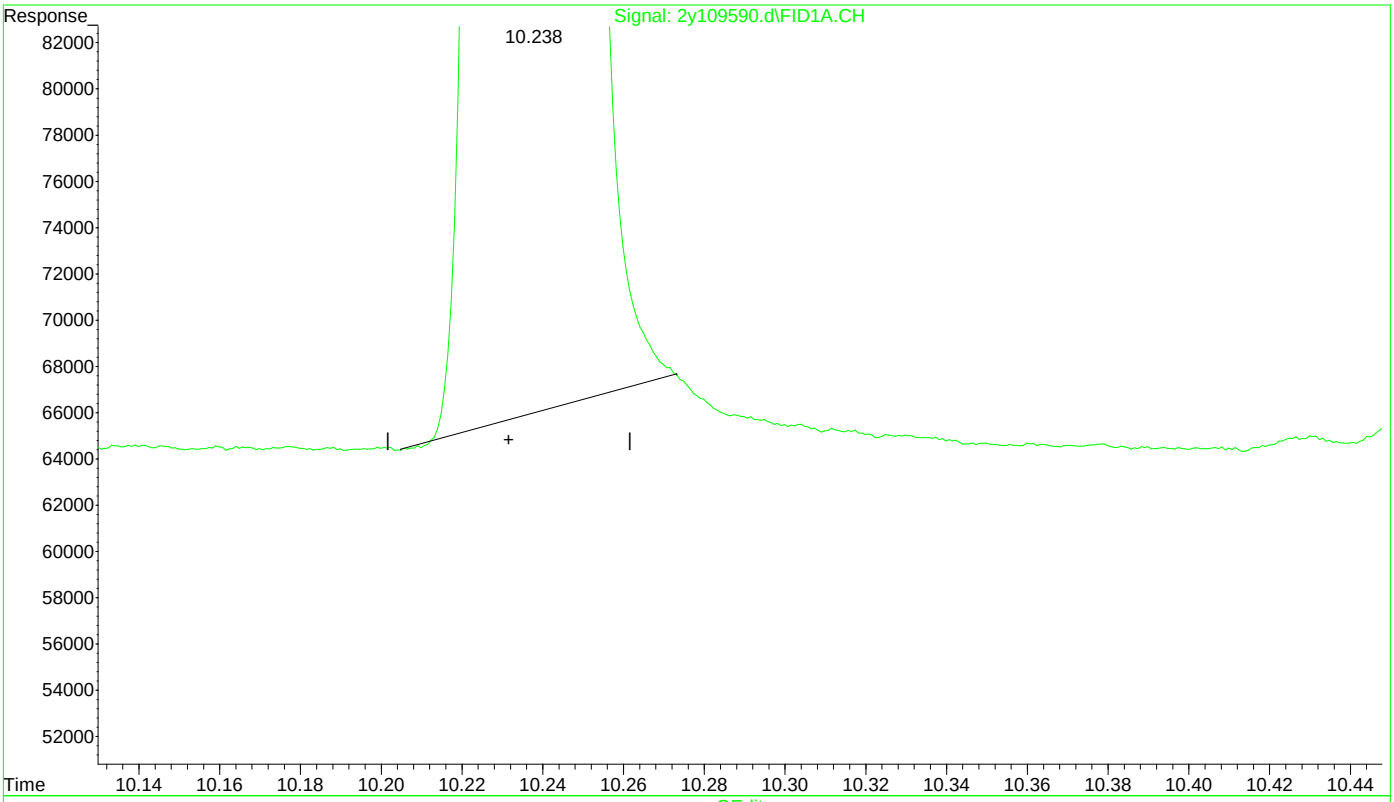
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:49:21 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109590.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:16 pm
Operator : thomasl
Sample : op41170-mb1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:48:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.238min 18.676 PPM

response 13992994

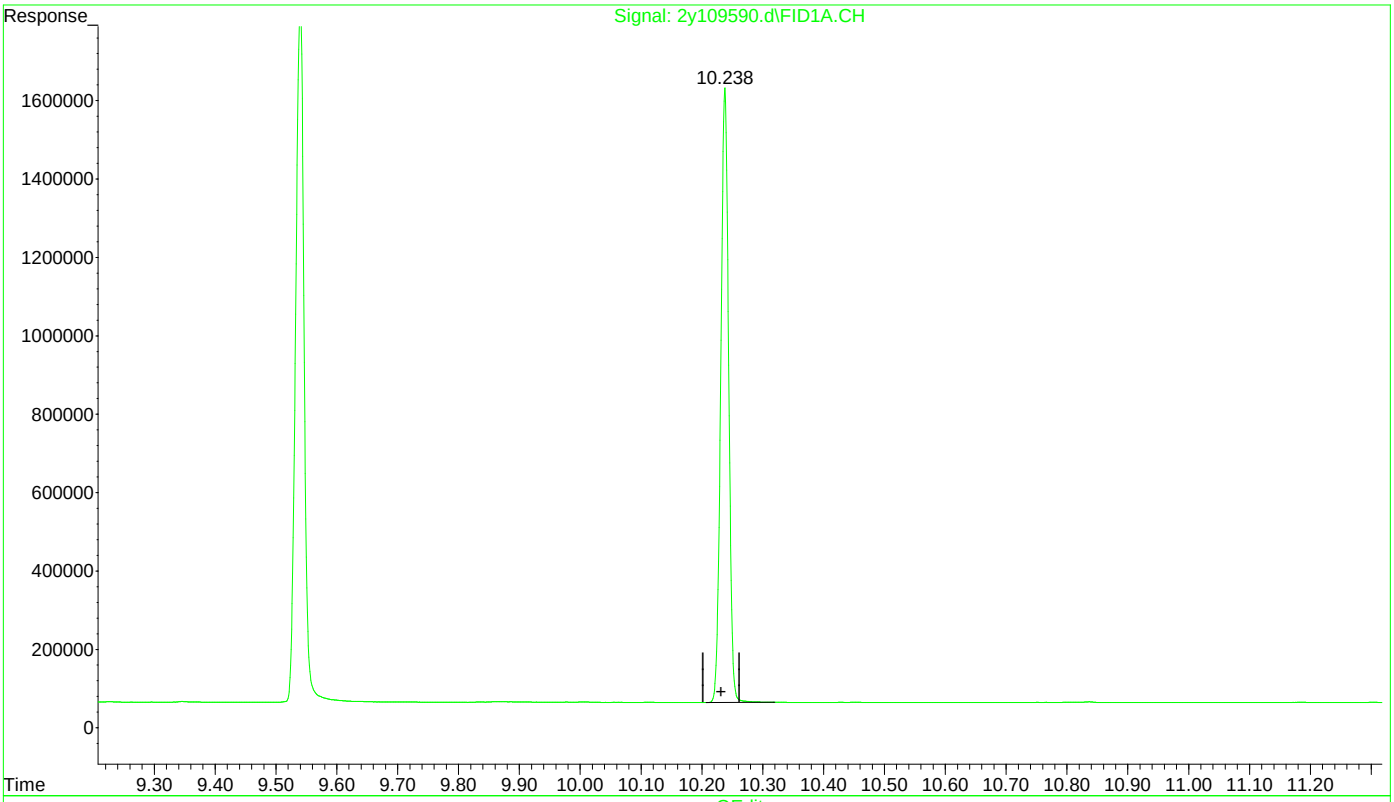
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109590.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:16 pm
Operator : thomasl
Sample : op41170-mb1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:48:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.238min 18.795 PPM m

response 14082203

(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:49:34 2022

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87591.d
Signal(s) : FID2B.CH
Acq On    : 10 Aug 2022   6:49 pm
Operator  : thomasl
Sample    : op41170-mb1
Misc      : op41170,g2z3372,10.0,,,1,1
ALS Vial  : 22   Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:00:33 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title  :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  : 1UL
Signal Phase : RTX-1
Signal Info  : 30mX0.25mmX0.25um

        Compound                      R.T.       Response    Conc Units
 ---------------------------------------------------------------------------

 System Monitoring Compounds
 9) S   o-Terphenyl                 9.266       45212582   17.630 PPM
Spiked Amount     50.000                      Recovery   =   35.26%
10) S   5a-Androstane               9.953       37053617   20.049 PPM
Spiked Amount     50.000                      Recovery   =   40.10%

 Target Compounds
 ---------------------------------------------------------------------------

(f)=RT Delta > 1/2 Window                                (m)=manual int.
```

9.2.4

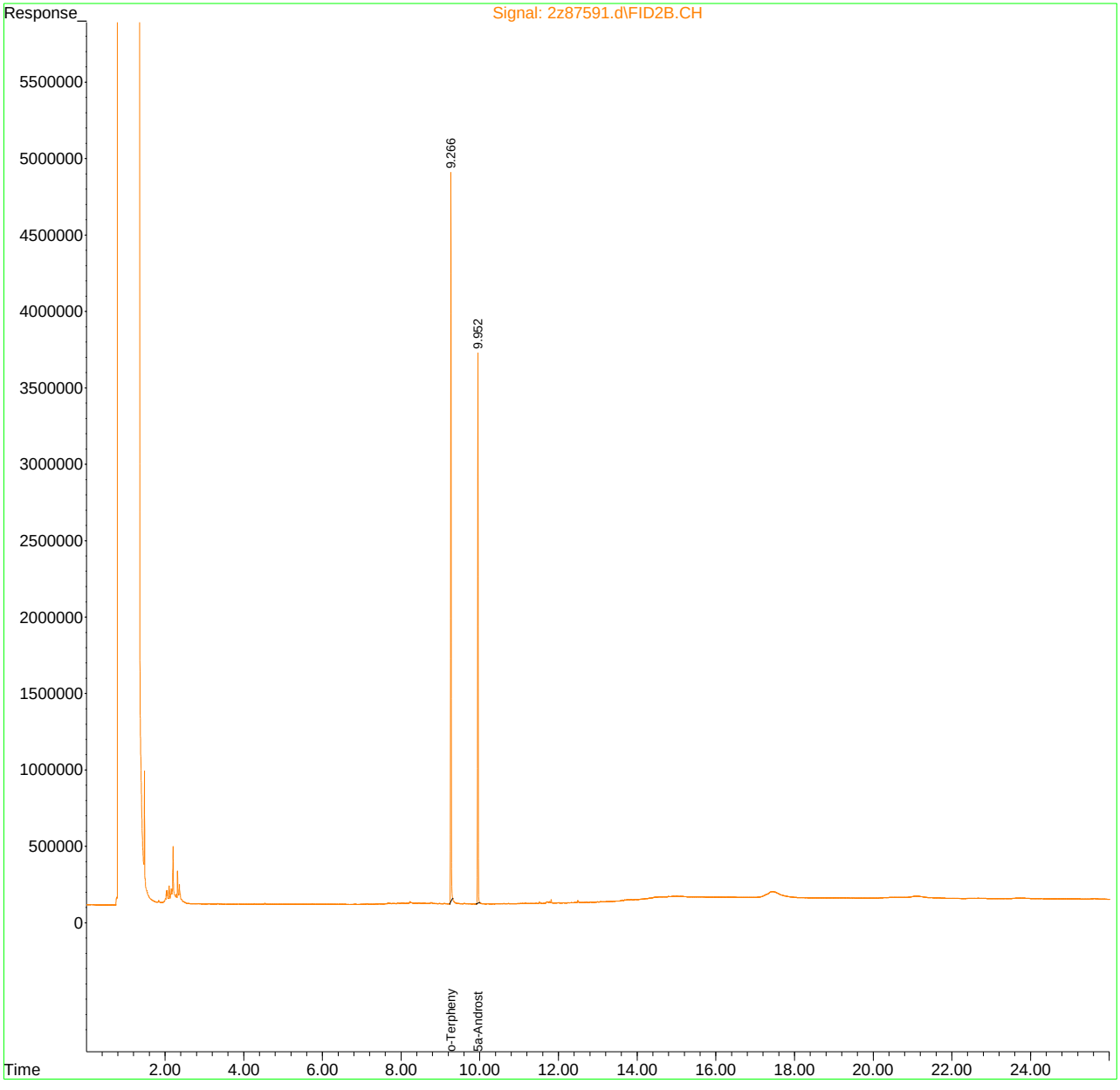
9

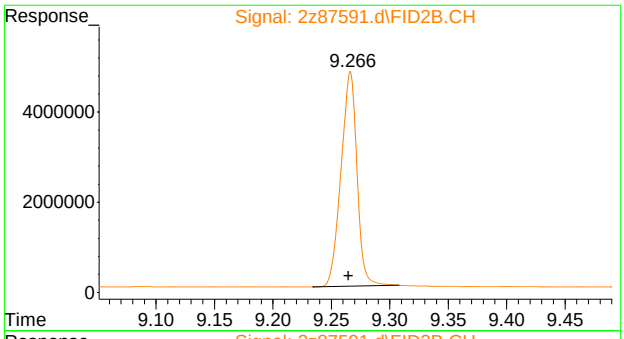
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87591.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 6:49 pm
Operator : thomasl
Sample : op41170-mb1
Misc : op41170,g2z3372,10.0,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:00:33 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

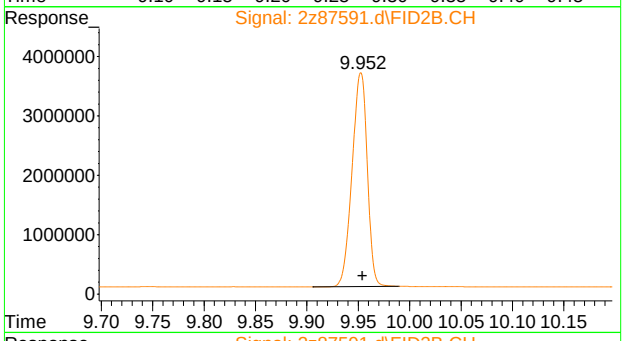
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





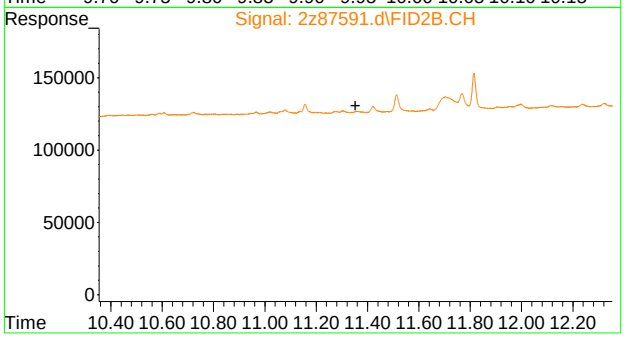
#9 o-Terphenyl

R.T.: 9.266 min
Delta R.T.: 0.002 min
Response: 45212582
Conc: 17.63 PPM



#10 5a-Androstane

R.T.: 9.953 min
Delta R.T.: -0.001 min
Response: 37053617
Conc: 20.05 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.2.4

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14354.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:09 am
Operator : chorngli
Sample : op41180-bs1
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:00:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	2.943	3.619	1107.0E6	3355.6E6	32.172	35.451
Spiked Amount 40.000			Recovery	=	80.43%	88.63%
51) S Decachlor...	10.343	12.086	1068.2E6	2669.5E6	31.312	34.062
Spiked Amount 40.000			Recovery	=	78.28%	85.15%
Target Compounds						
32) AR1016-B	3.760	4.850	207.4E6	657.8E6	183.110	205.198
33) AR1016-C	4.335	5.489	474.1E6	1441.0E6	175.882	202.370
34) AR1016-D	4.507	5.681	179.0E6	558.7E6	179.291	205.378
35) AR1016-E	5.036	6.346	182.5E6	450.5E6	179.075	203.274
36) AR1260-A	7.071	8.434	402.7E6	1019.5E6	177.589	216.612
37) AR1260-B	7.619	9.085	293.5E6	780.2E6	170.436	205.834
38) AR1260-C	7.960	9.520	264.5E6	818.8E6	172.104	198.570
39) AR1260-D	8.397	9.865	659.3E6	1842.1E6	168.941	208.269

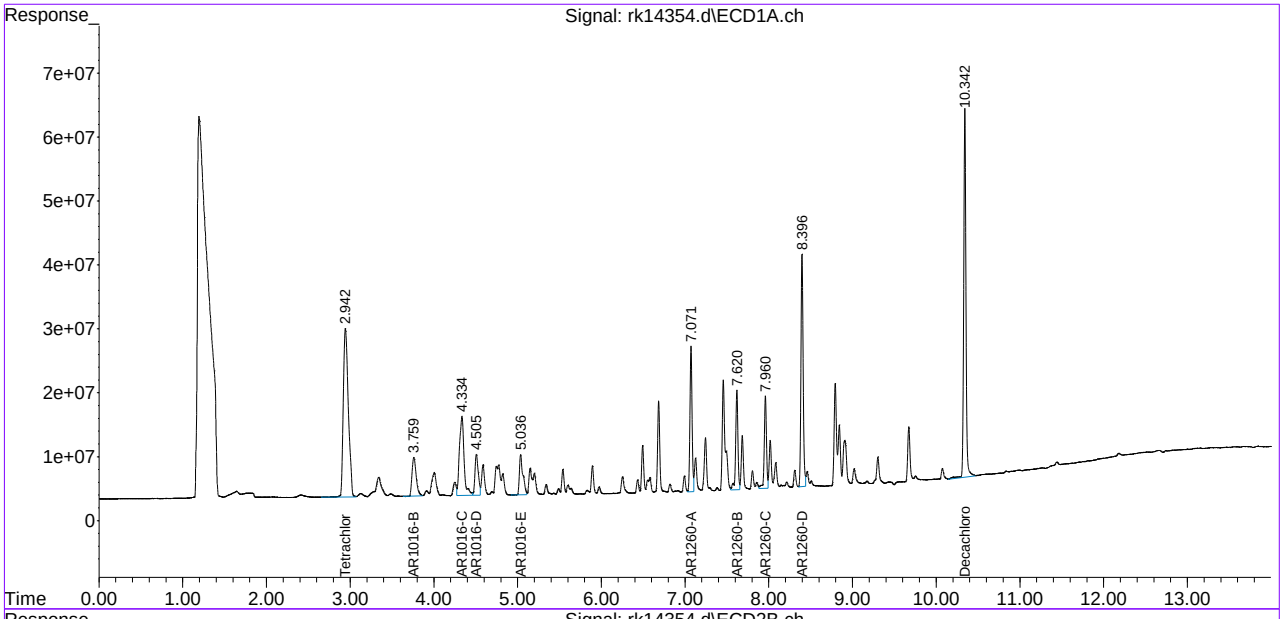
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

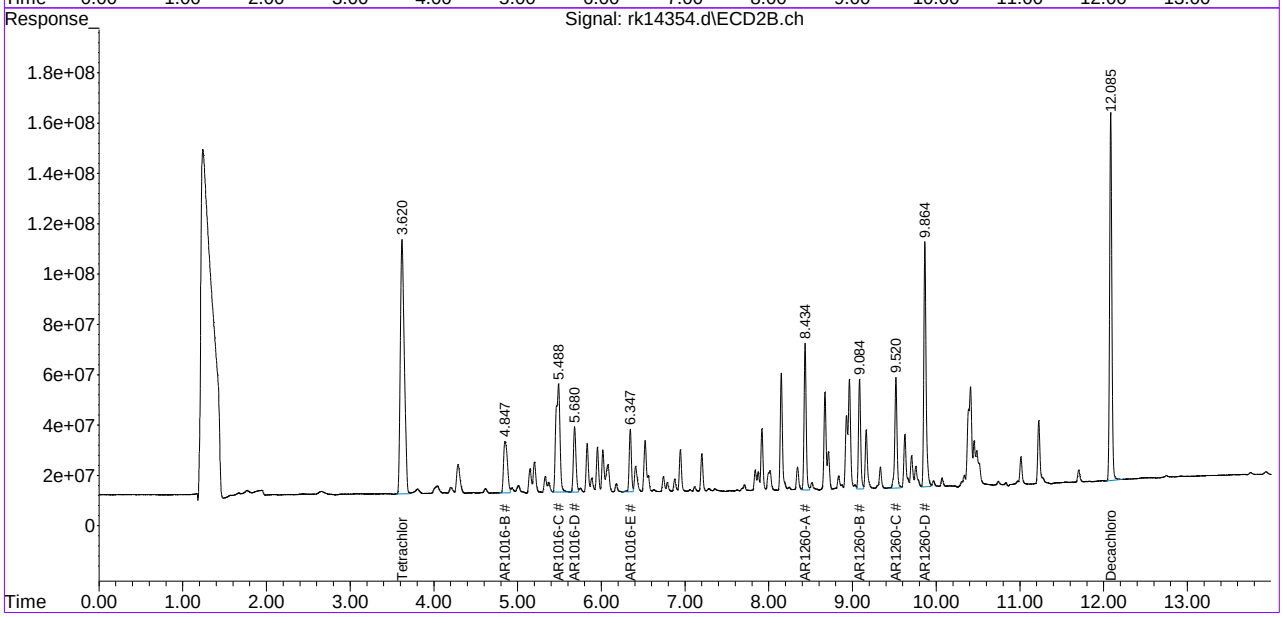
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14354.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:09 am
Operator : chorngli
Sample : op41180-bs1
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:00:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 17:13

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109591.d
Signal(s) : FID1A.CH
Acq On    : 10 Aug 2022   6:49 pm
Operator  : thomasl
Sample    : op41170-bs1
Misc      : op41170,g2y4272,10.0,,,1,1
ALS Vial  : 23   Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:50:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title  :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  : 1UL
Signal Phase : RTX-1
Signal Info  : 30mX0.25mmX0.25um
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.533	13179797	12.001	PPM	m
Spiked Amount 50.000		Recovery =	24.00%		
10) S 5a-Androstane	10.232	9636882	12.862	PPM	
Spiked Amount 50.000		Recovery =	25.72%		
Target Compounds					
1) H TPH-DRO	8.430	169292335	272.292	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.3.2

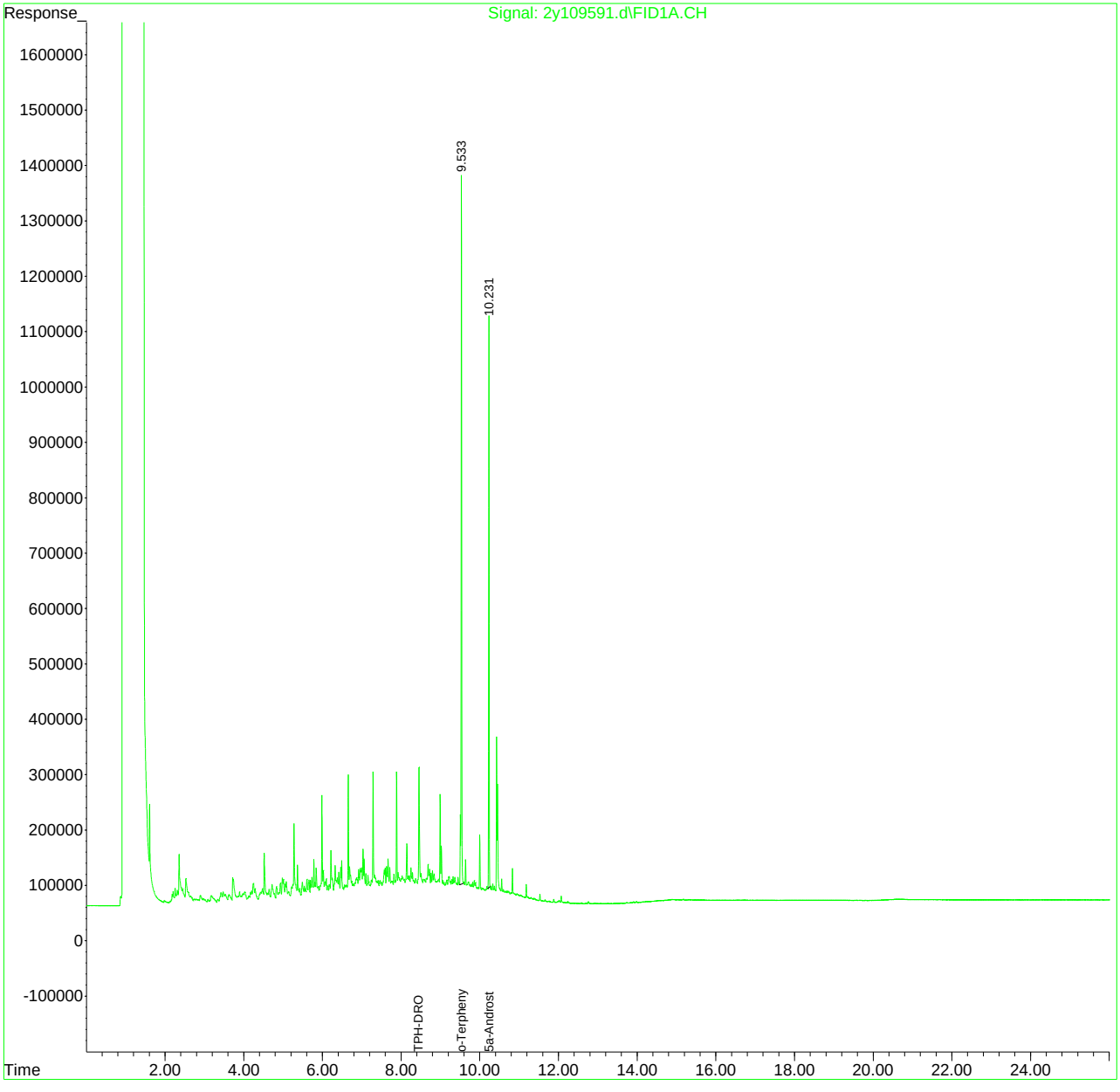
9

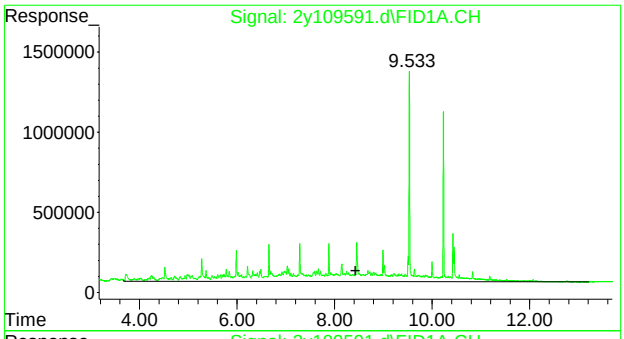
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109591.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:49 pm
Operator : thomasl
Sample : op41170-bs1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:50:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

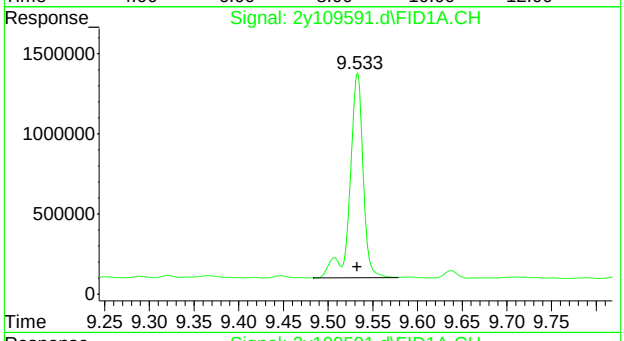
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





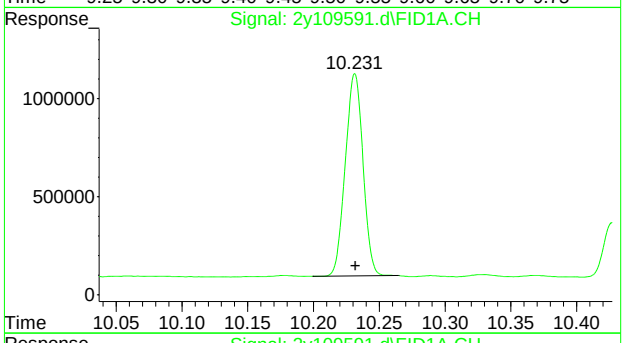
#1 TPH-DRO

```
      R.T.:    8.430 min
Delta R.T.:    0.000 min
  Response: 169292335
      Conc: 272.29 PPM
```



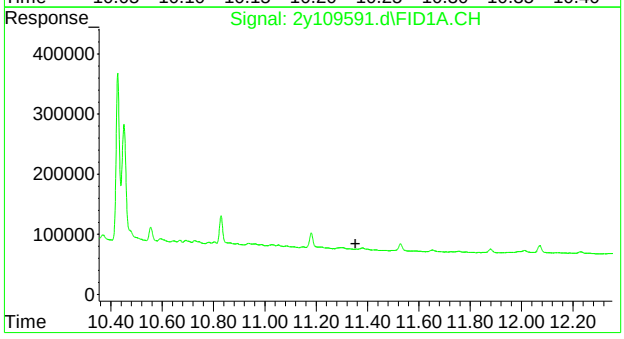
#9 o-Terphenyl

```
      R.T.:    9.533 min
Delta R.T.:    0.000 min
  Response:  13179797
      Conc:  12.00 PPM m
```



#10 5a-Androstane

```
      R.T.:   10.232 min
Delta R.T.:    0.000 min
  Response:   9636882
      Conc:  12.86 PPM
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:    N.D.
```

9.3.2

9

Manual Integration Approval Summary

Sample Number:	OP41170-BS1	**Method:**	SW846 8015D
Lab FileID:	2Y109591.D	**Analyst approved:**	08/11/22 04:29 MaryAnne Loyola
Injection Time:	08/10/22 18:49	**Supervisor approved:**	08/11/22 17:13 Jason Savoie

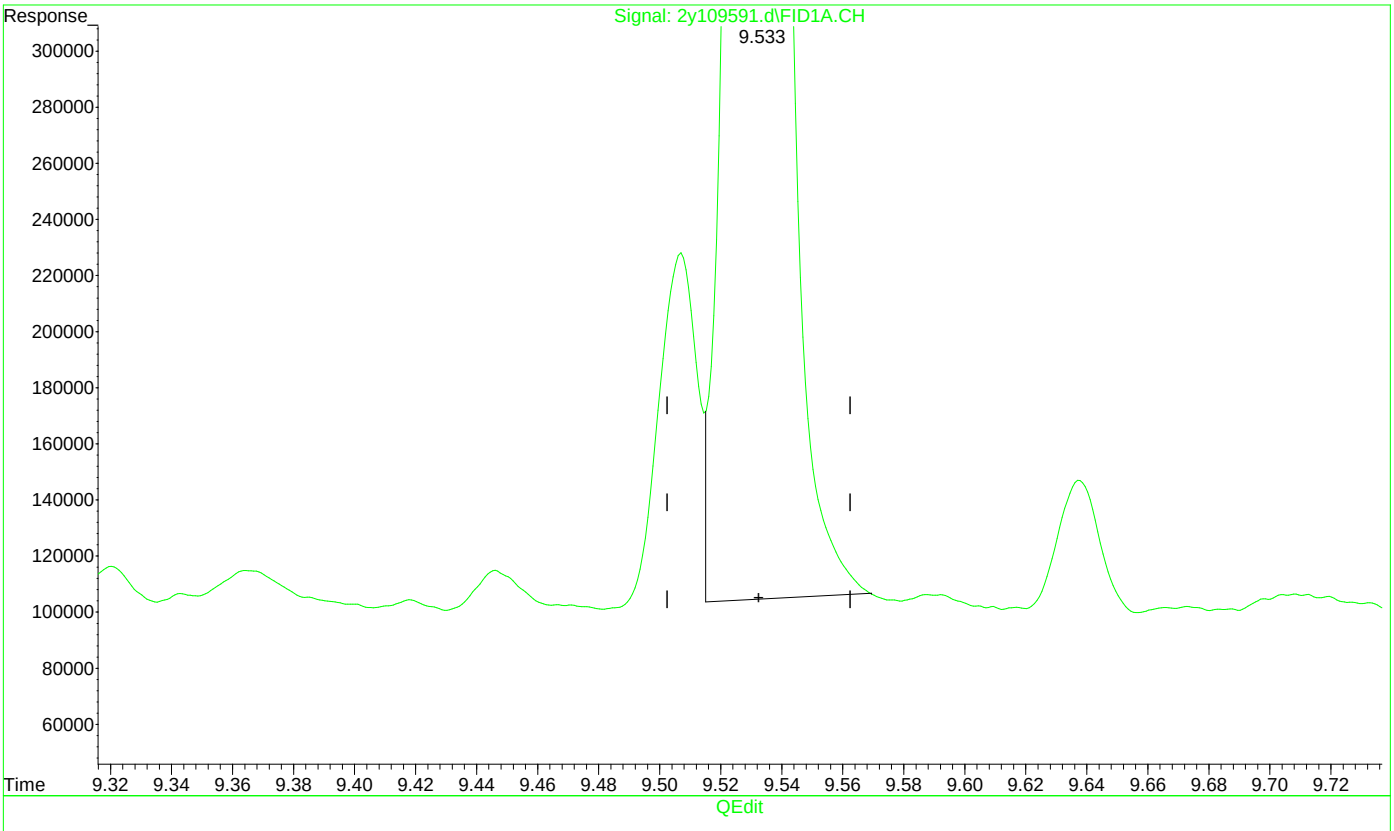
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109591.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:49 pm
Operator : thomasl
Sample : op41170-bs1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:49:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.533min 10.918 PPM

response 11990374

(+) = Expected Retention Time

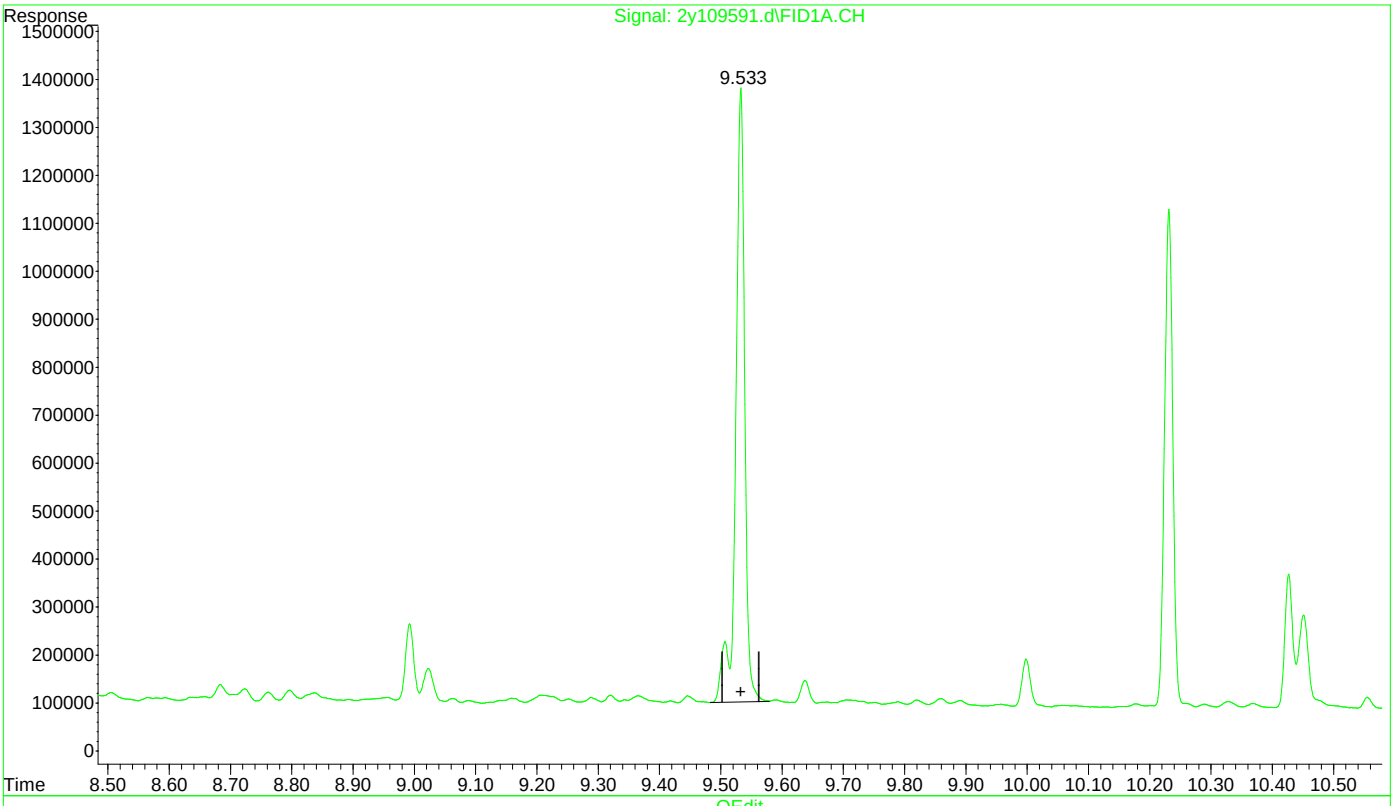
dro2y4195.m Thu Aug 11 03:50:16 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109591.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 6:49 pm
Operator : thomasl
Sample : op41170-bs1
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:49:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.533min 12.001 PPM m

response 13179797

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 17:13

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109592.d
Signal(s) : FID1A.CH
Acq On    : 10 Aug 2022   7:23 pm
Operator  : thomasl
Sample    : op41170-bsd
Misc      : op41170,g2y4272,10.0,,,1,1
ALS Vial  : 24   Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:51:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title  :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  : 1UL
Signal Phase : RTX-1
Signal Info  : 30mX0.25mmX0.25um
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.534	21674918	19.736	PPM	m
Spiked Amount 50.000		Recovery =	39.47%		
10) S 5a-Androstane	10.233	15898759	21.220	PPM	
Spiked Amount 50.000		Recovery =	42.44%		
Target Compounds					
1) H TPH-DRO	8.430	280547954	451.236	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.3.3

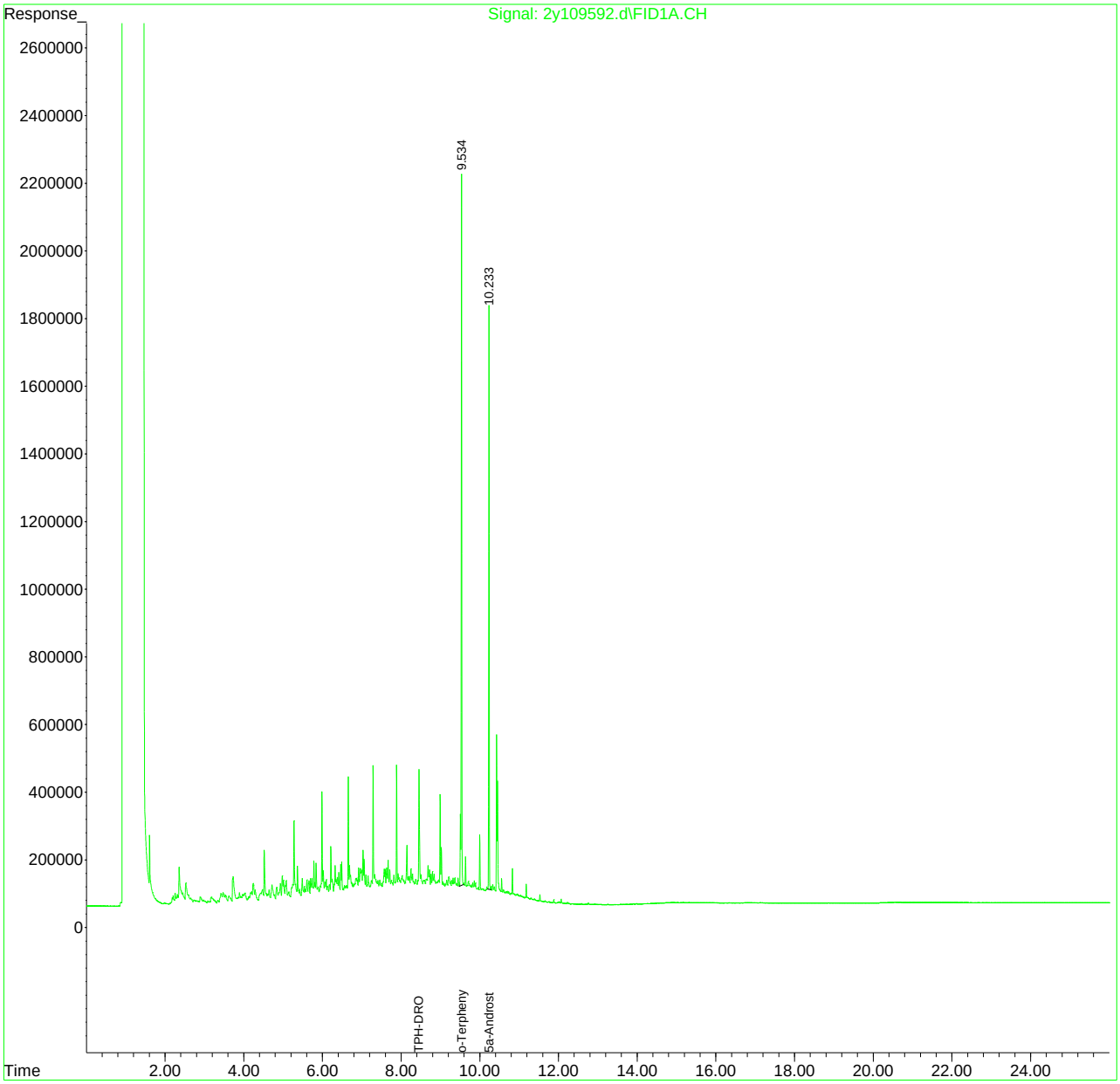
9

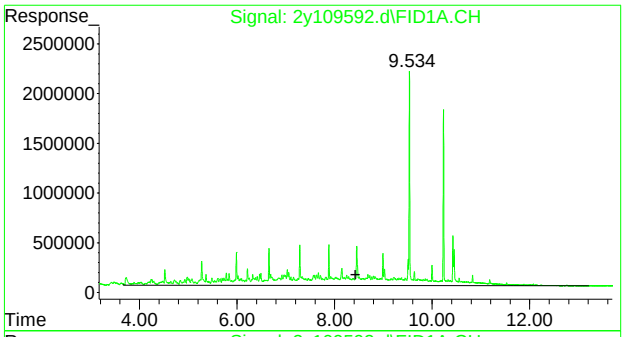
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109592.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 7:23 pm
Operator : thomasl
Sample : op41170-bsd
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:51:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

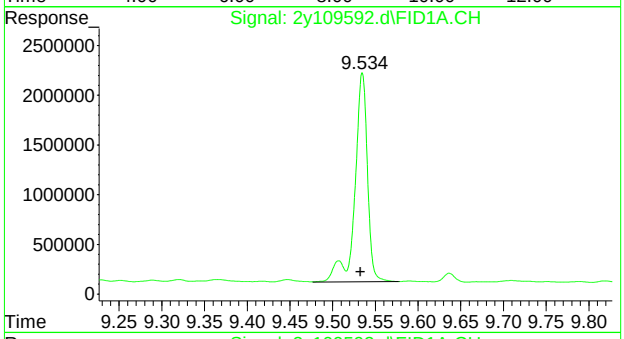
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





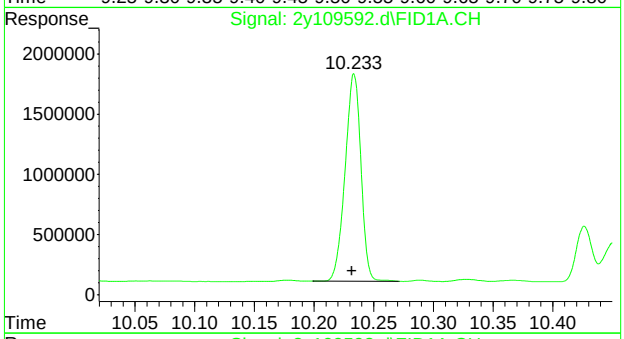
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 280547954
Conc: 451.24 PPM



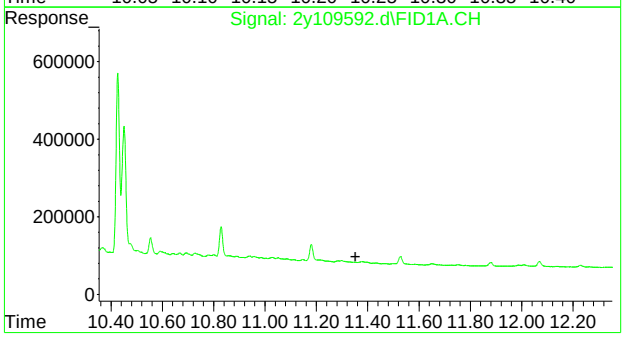
#9 o-Terphenyl

R.T.: 9.534 min
Delta R.T.: 0.002 min
Response: 21674918
Conc: 19.74 PPM m



#10 5a-Androstane

R.T.: 10.233 min
Delta R.T.: 0.002 min
Response: 15898759
Conc: 21.22 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Manual Integration Approval Summary

Sample Number:	OP41170-BSD	**Method:**	SW846 8015D
Lab FileID:	2Y109592.D	**Analyst approved:**	08/11/22 04:29 MaryAnne Loyola
Injection Time:	08/10/22 19:23	**Supervisor approved:**	08/11/22 17:13 Jason Savoie

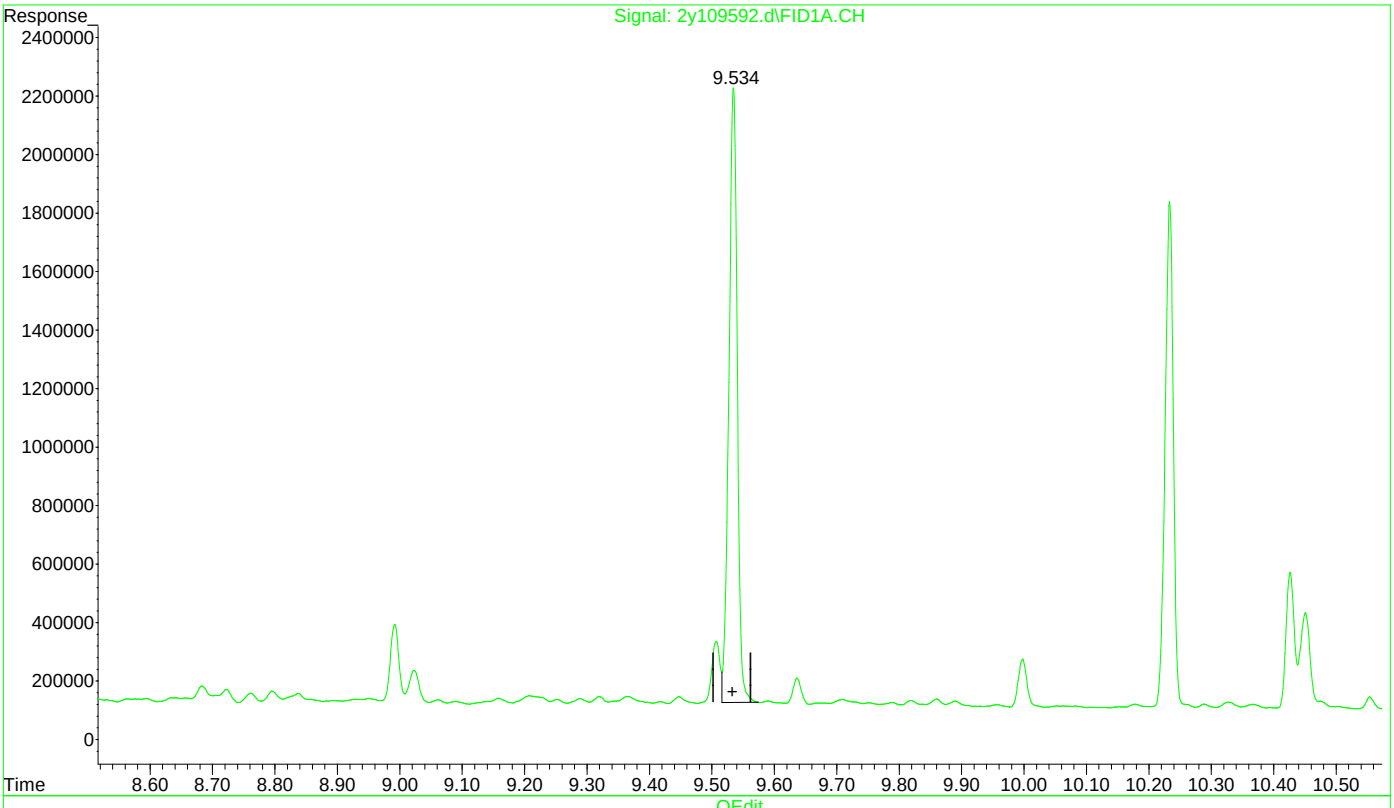
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109592.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 7:23 pm
Operator : thomasl
Sample : op41170-bsd
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:50:40 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.535min 17.875 PPM

response 19631045

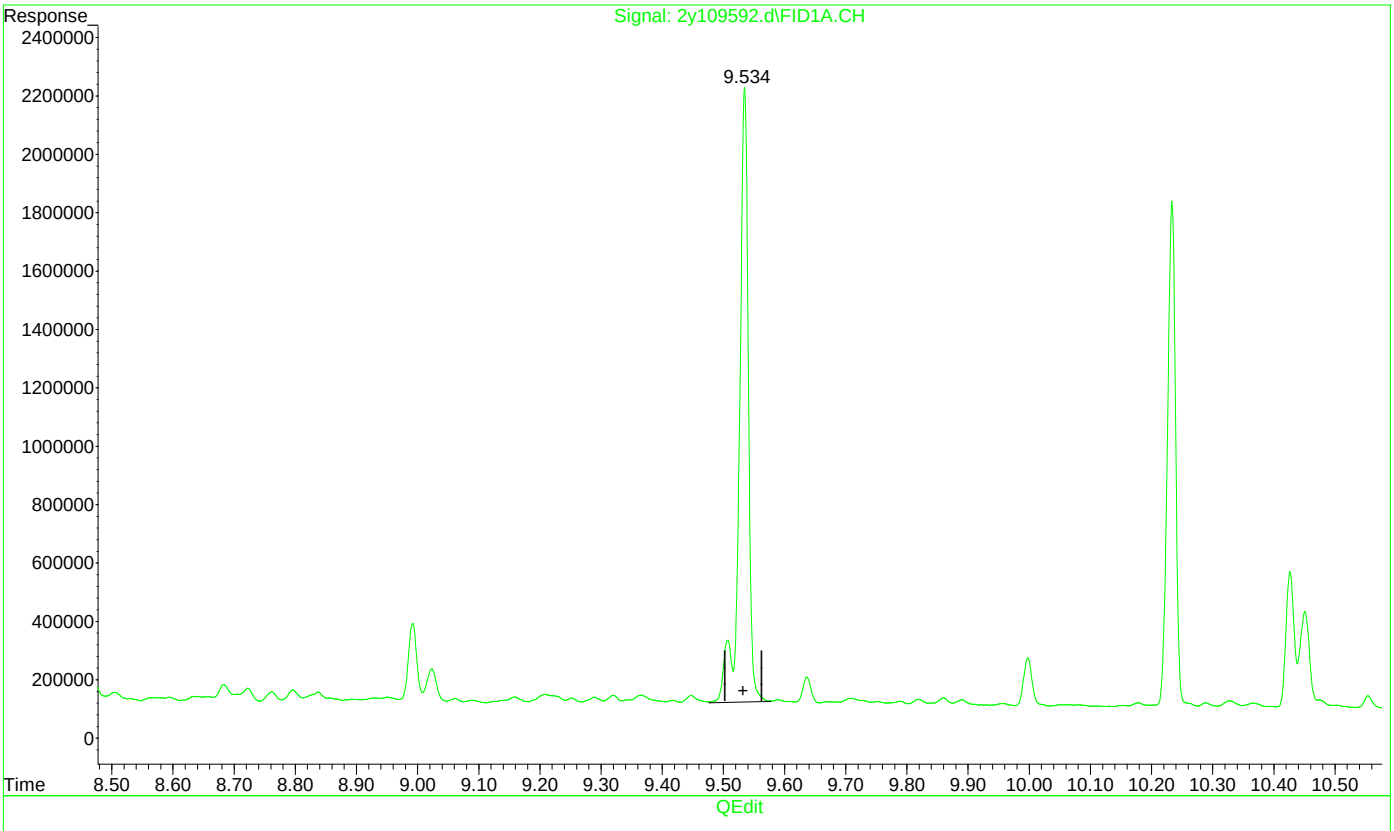
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109592.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 7:23 pm
Operator : thomasl
Sample : op41170-bsd
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:50:40 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.534min 19.736 PPM m

response 21674918

(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:51:10 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
08/14/22 14:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:25 am
Operator : chorngli
Sample : op41180-ms
Misc : op41180,grk355,16.1,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 14 14:10:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.947	3.619	765.2E6	1871.3E6	22.238	19.770m
Spiked Amount	40.000			Recovery	=	55.59%	49.42%
51) S	Decachlor...	10.339	12.090	746.3E6	4698.0E6	21.878m	59.946m#
Spiked Amount	40.000			Recovery	=	54.70%	149.87%
	Target Compounds						
17)	AR1248-A	3.765	4.849	212.9E6	618.9E6	499.762	491.813
19)	AR1248-C	4.744	5.956	235.5E6	299.5E6	168.186	134.818
20)	AR1248-D	5.034	6.343	188.3E6	509.7E6	145.749	175.631
21)	AR1248-E	5.152	6.524	160.0E6	720.8E6	222.109	220.902
32)	AR1016-B	3.765	4.849	212.9E6	618.9E6	187.955	193.062
34)	AR1016-D	4.502	5.681	259.4E6	322.1E6	259.728	118.412 #
35)	AR1016-E	5.034	6.343	188.3E6	509.7E6	184.840	229.976
37)	AR1260-B	7.618	9.085	339.2E6	1109.8E6	196.980	292.780 #
38)	AR1260-C	7.960	9.517	274.0E6	1021.9E6	178.322	247.811m#
39)	AR1260-D	8.397	9.865	987.9E6	1991.8E6	253.152	225.200
42)	AR1262-B	7.618	9.085	339.2E6	1109.8E6	131.715	189.928 #
43)	AR1262-C	7.960	9.518	274.0E6	1622.6E6	136.846	312.638 #
44)	AR1262-D	8.397	9.865	987.9E6	1991.8E6	202.237	178.048

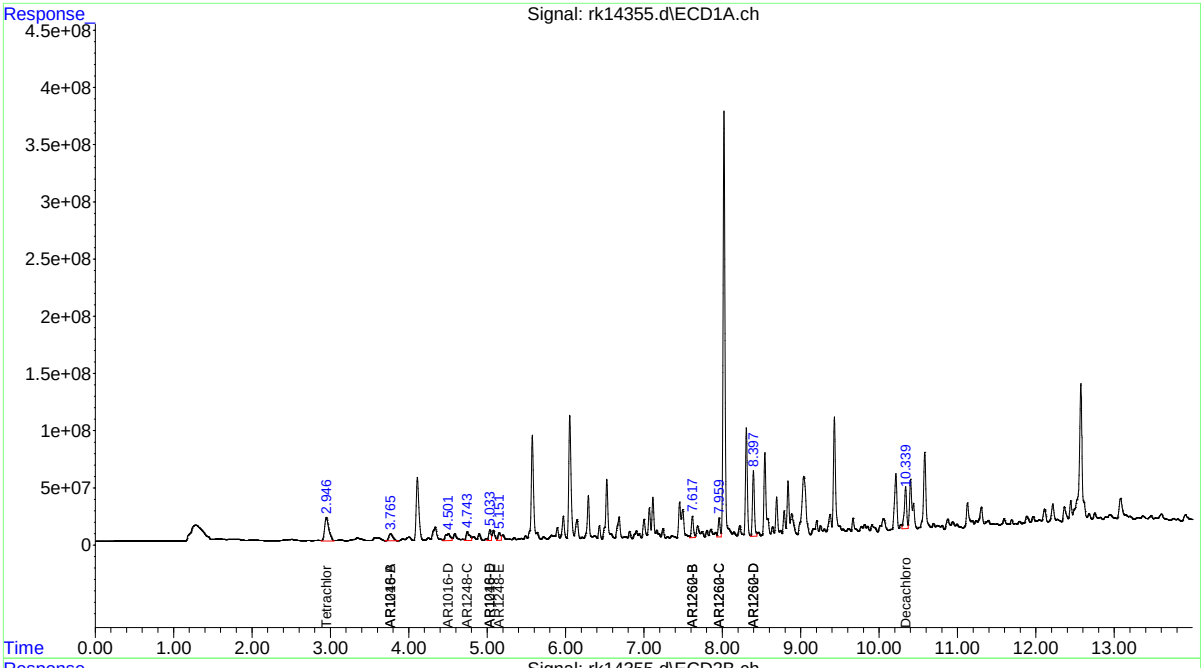
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

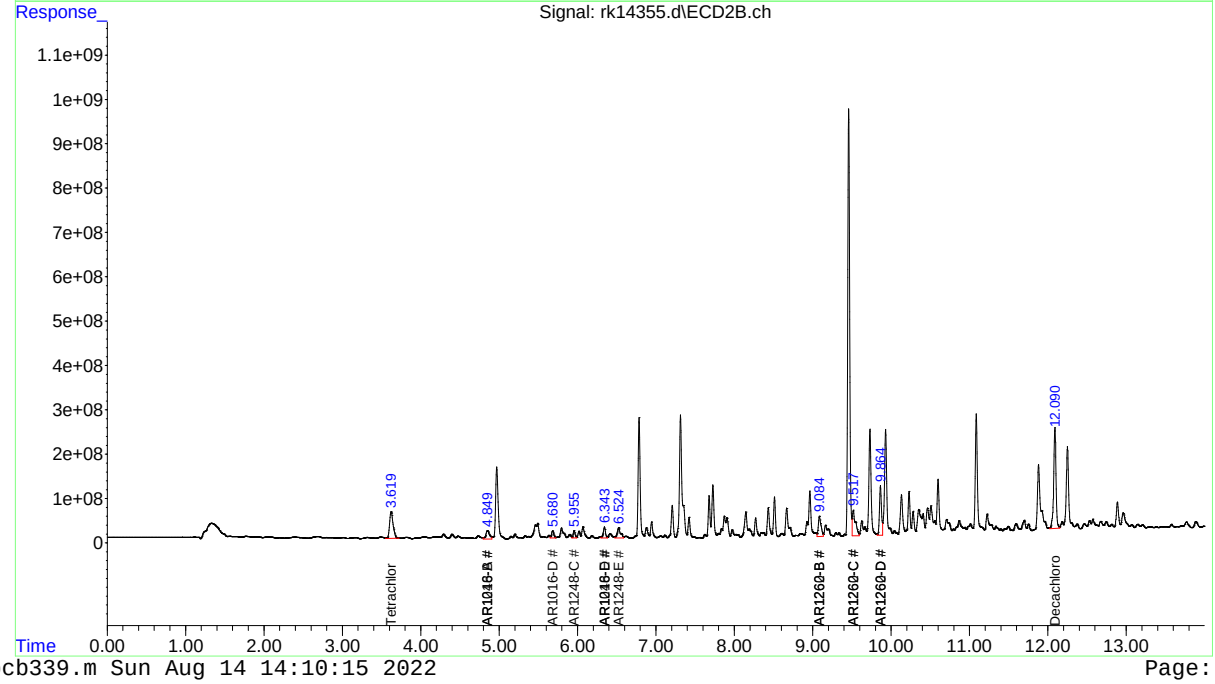
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:25 am
Operator : chorngli
Sample : op41180-ms
Misc : op41180,grk355,16.1,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 14 14:10:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





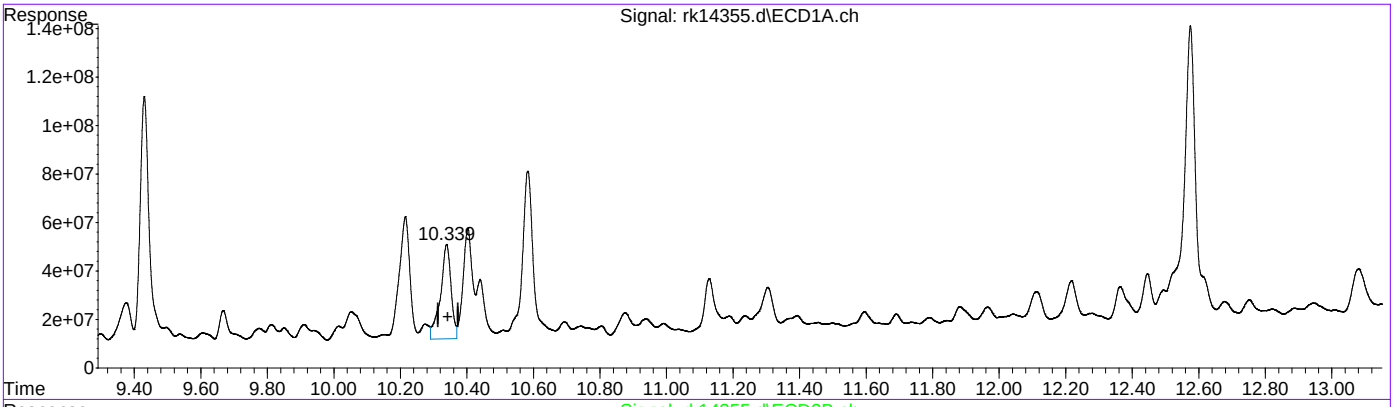
Manual Integration Approval Summary

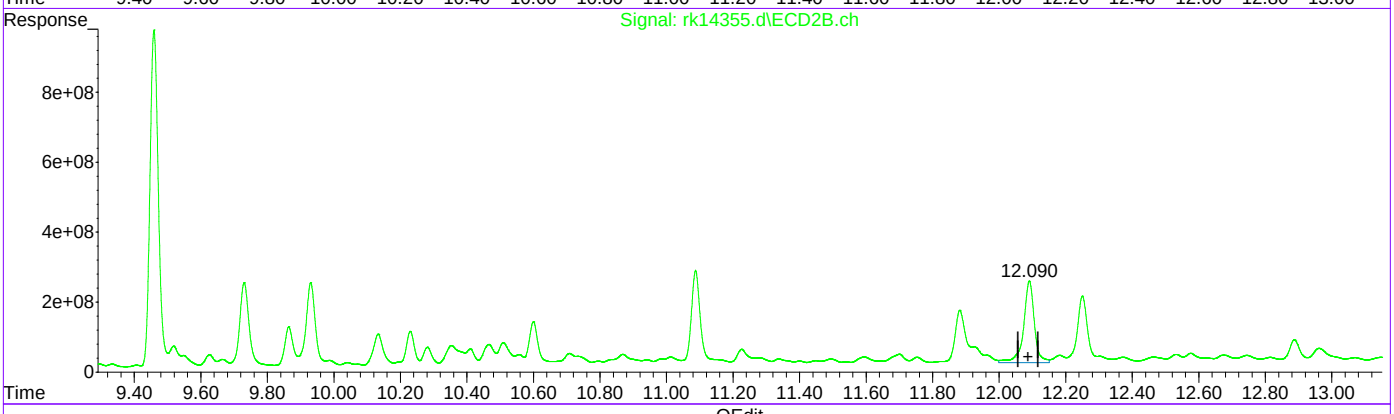
Sample Number:	OP41180-MS	**Method:**	SW846 8082A
Lab FileID:	RK14355.D	**Analyst approved:**	08/14/22 14:20 Gwendolyn Burns
Injection Time:	08/12/22 02:25	**Supervisor approved:**	08/14/22 14:21 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	3.62	Poorly defined baseline
AR1260-C		2	9.52	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.34	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	12.09	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:25 am
Operator  : chorngli
Sample    : op41180-ms
Misc      : op41180,grk355,16.1,,,10,1
ALS Vial  : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:42:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(51) Decachlorobiphenyl (S)

10.339min 25.270 ppb

response 862033187

(51) Decachlorobiphenyl #2 (S)

12.091min 67.146 ppb

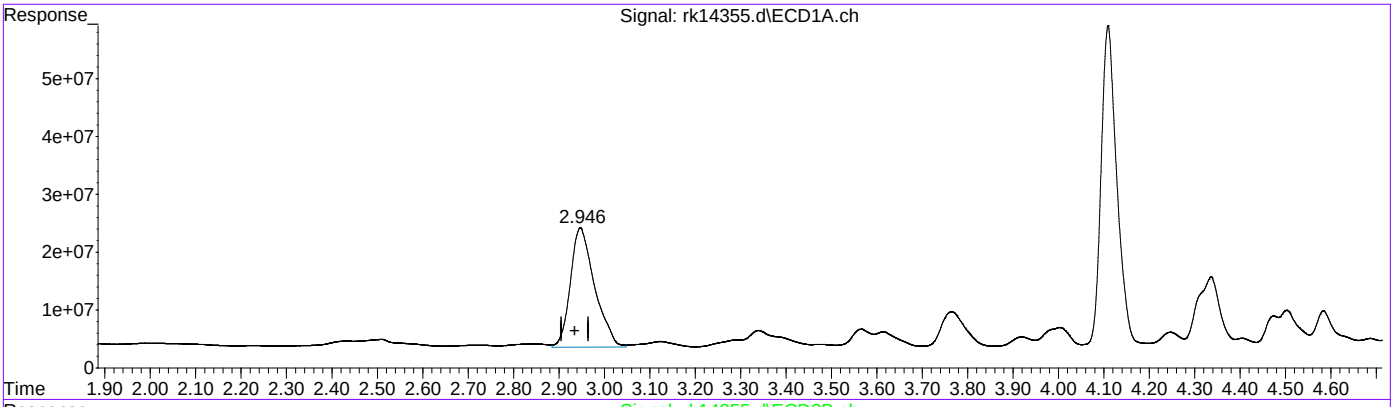
response 5262365562

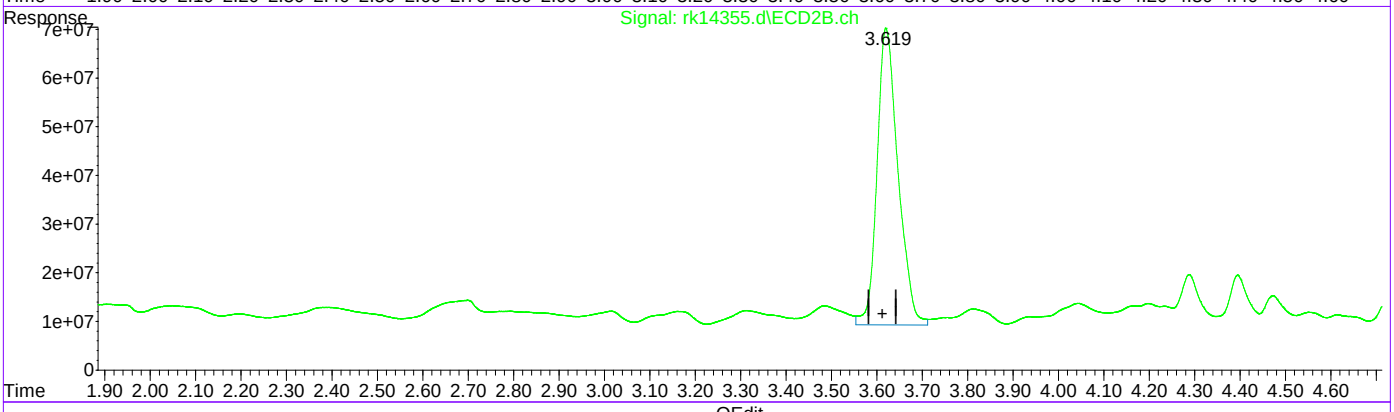
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:02:07 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:25 am
Operator  : chorngli
Sample    : op41180-ms
Misc      : op41180,grk355,16.1,,,10,1
ALS Vial  : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:02:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(1) Tetrachloro-m-xylene (S)

2.947min 22.238 ppb

response 765207175

(1) Tetrachloro-m-xylene #2 (S)

3.620min 20.691 ppb

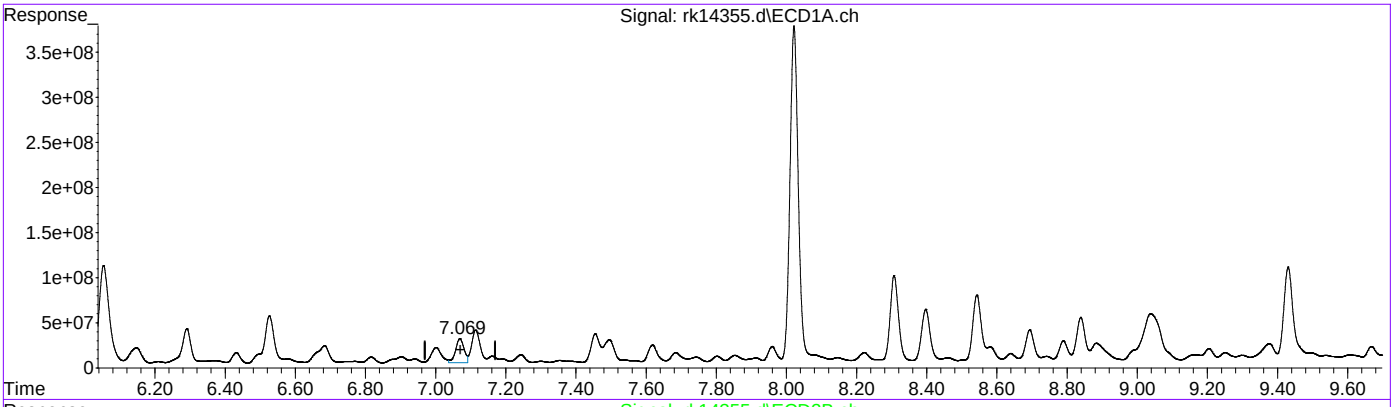
response 1958470180

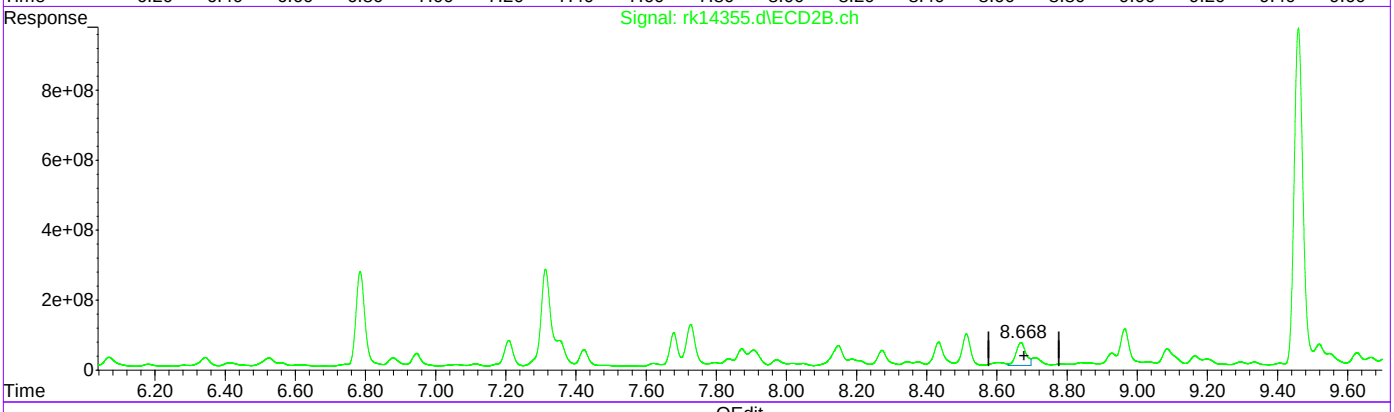
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:07:19 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:25 am
Operator  : chorngli
Sample    : op41180-ms
Misc      : op41180,grk355,16.1,,,10,1
ALS Vial  : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:02:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(29) AR1254-F

7.070min 316.495 PPB

response 448800706

(29) AR1254-F #2

8.668min 265.377 PPB

response 1287441353

(+) = Expected Retention Time

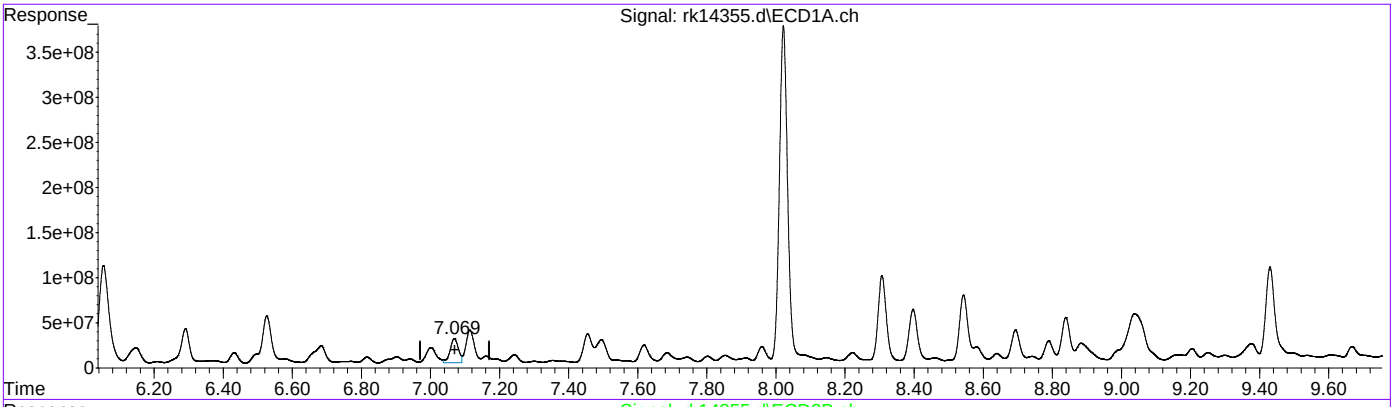
rkpcb339.m Sat Aug 13 23:08:10 2022

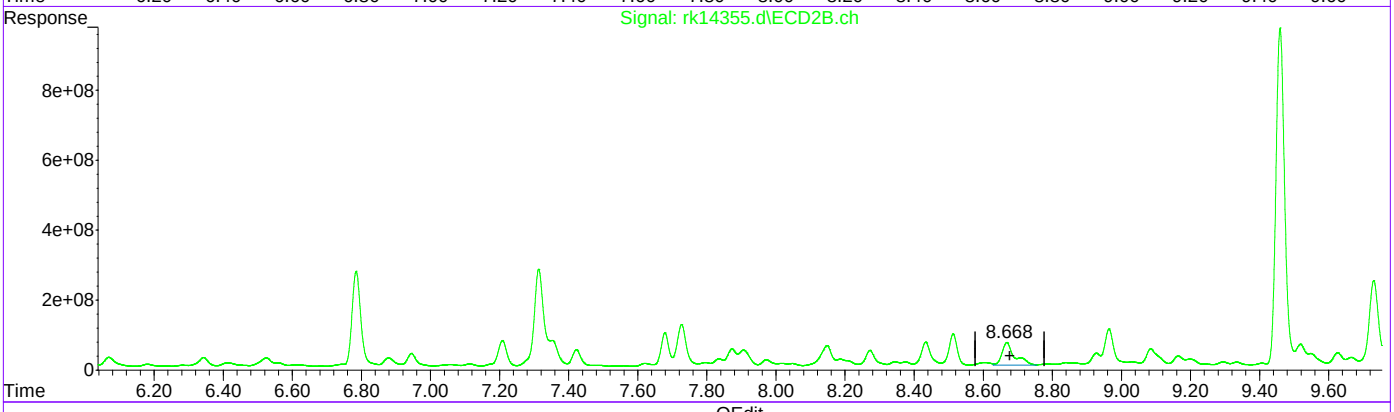
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:25 am
Operator : chorngli
Sample : op41180-ms
Misc : op41180,grk355,16.1,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:02:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(29) AR1254-F

7.070min 316.495 PPB

response 448800706

(29) AR1254-F #2

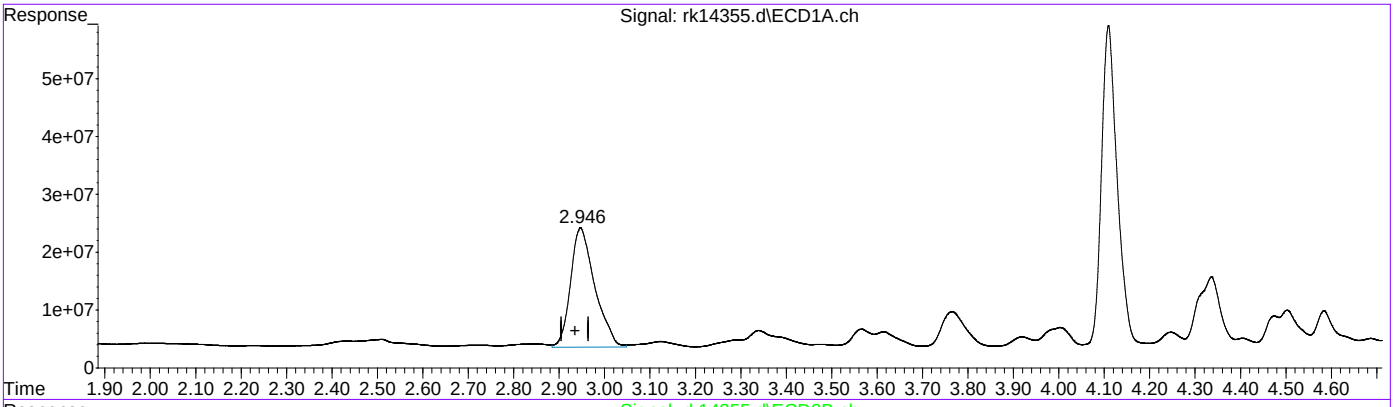
8.668min 340.632 PPB m

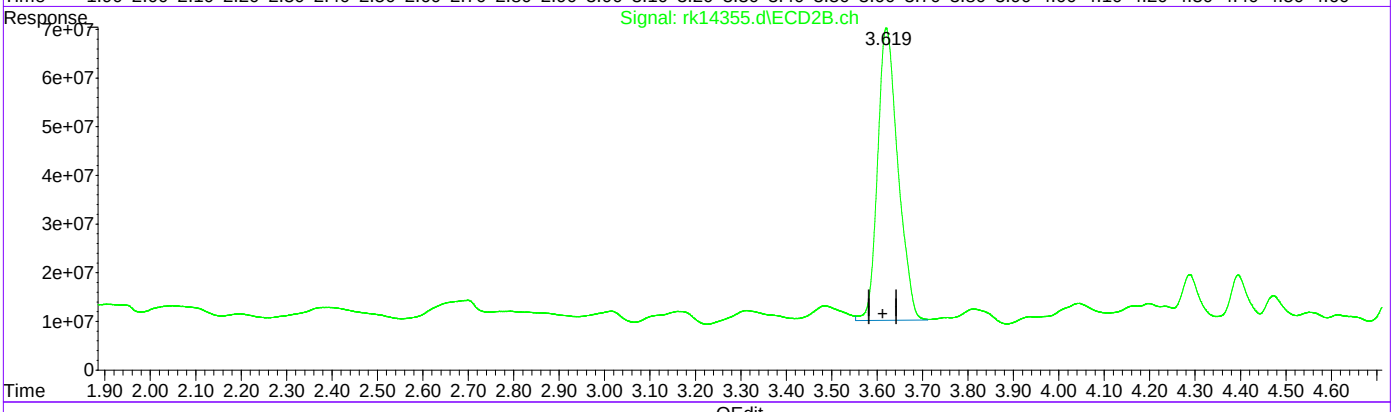
response 1652527430

(+) = Expected Retention Time
rkpcb339.m Sat Aug 13 23:08:19 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:25 am
Operator  : chorngli
Sample    : op41180-ms
Misc      : op41180,grk355,16.1,,,10,1
ALS Vial  : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:11:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(1) Tetrachloro-m-xylene (S)

2.947min 22.238 ppb

response 765207175

(1) Tetrachloro-m-xylene #2 (S)

3.619min 19.770 ppb m

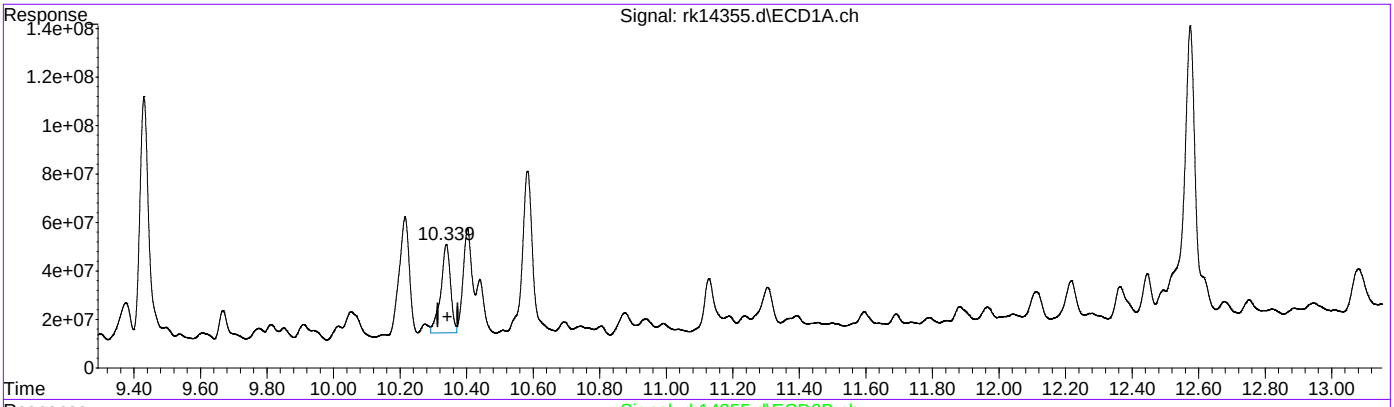
response 1871326285

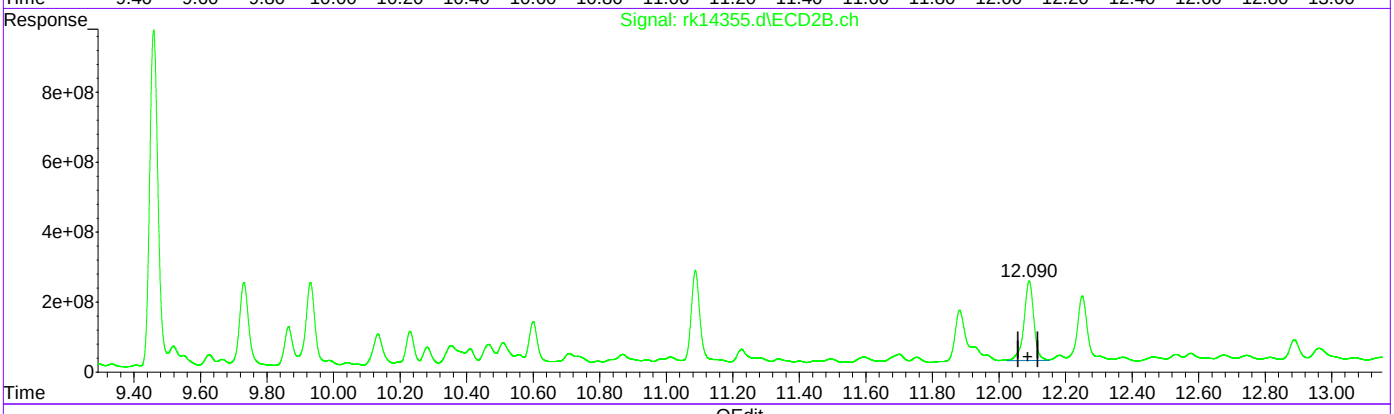
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:11:45 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:25 am
Operator  : chorngli
Sample    : op41180-ms
Misc      : op41180,grk355,16.1,,,10,1
ALS Vial  : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:11:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(51) Decachlorobiphenyl (S)

10.339min 21.878 ppb m

response 746349282

(51) Decachlorobiphenyl #2 (S)

12.090min 59.946 ppb m

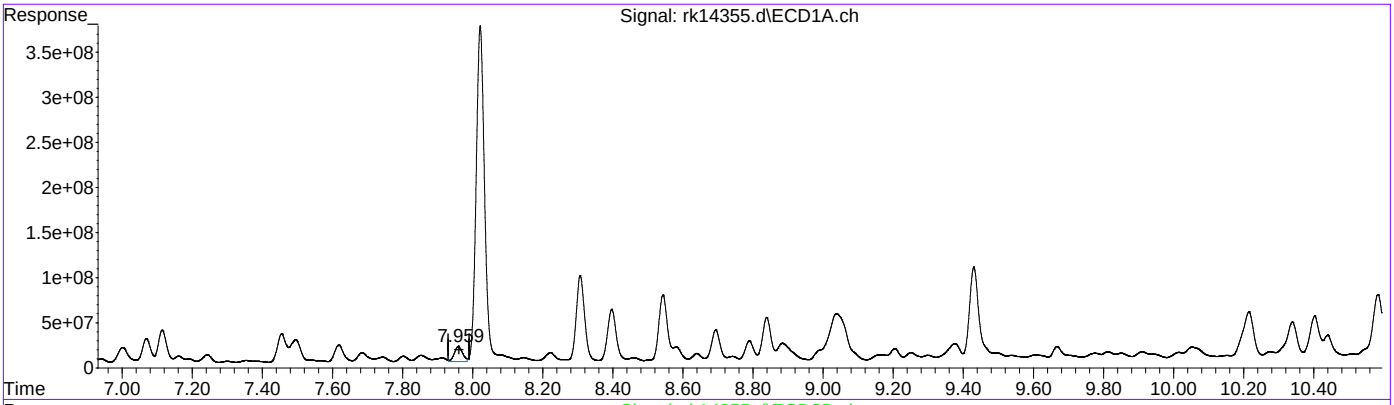
response 4698049492

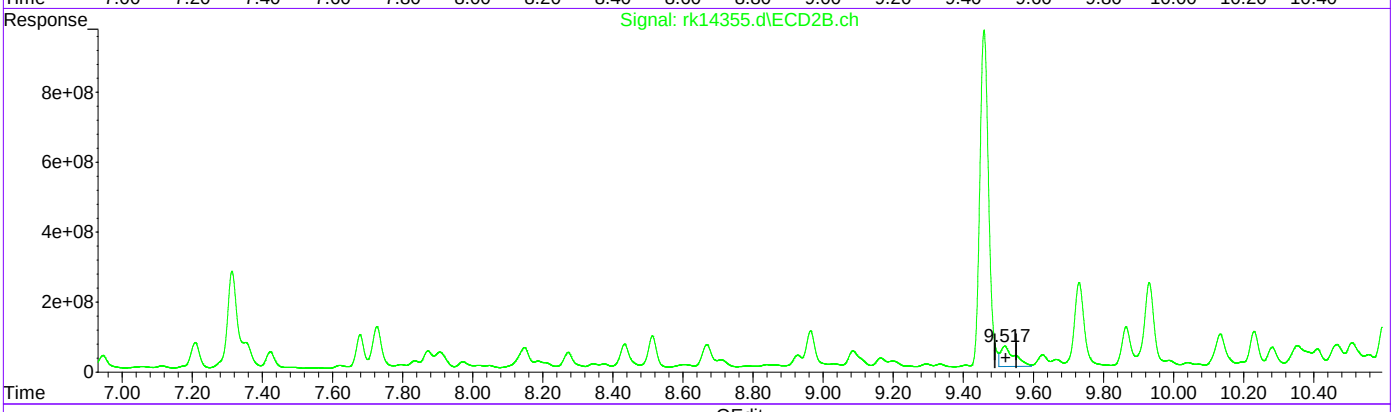
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:12:01 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:25 am
Operator  : chorngli
Sample    : op41180-ms
Misc      : op41180,grk355,16.1,,,10,1
ALS Vial  : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:11:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(38) AR1260-C

7.960min 178.322 PPB

response 274045318

(38) AR1260-C #2

9.518min 393.491 PPB

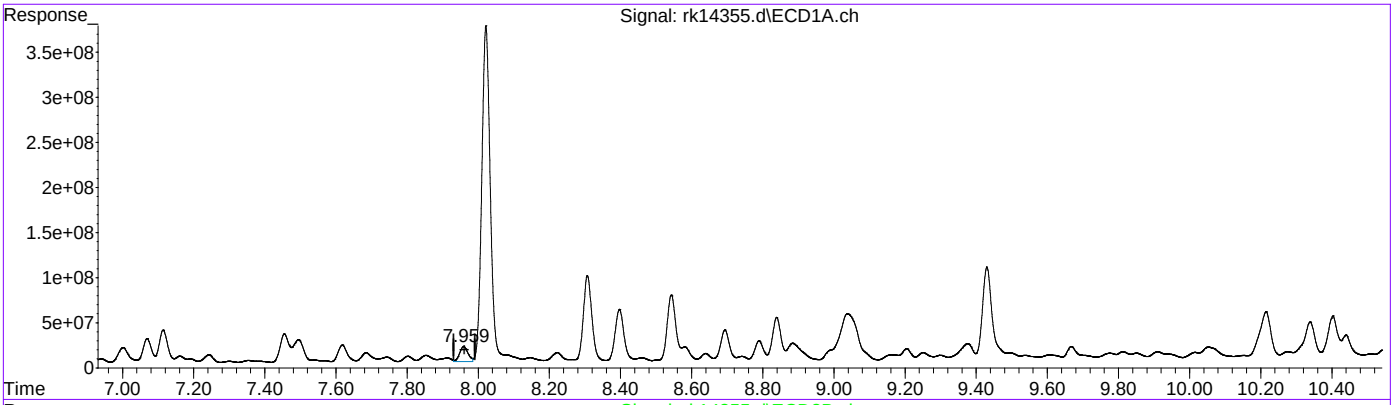
response 1622573176

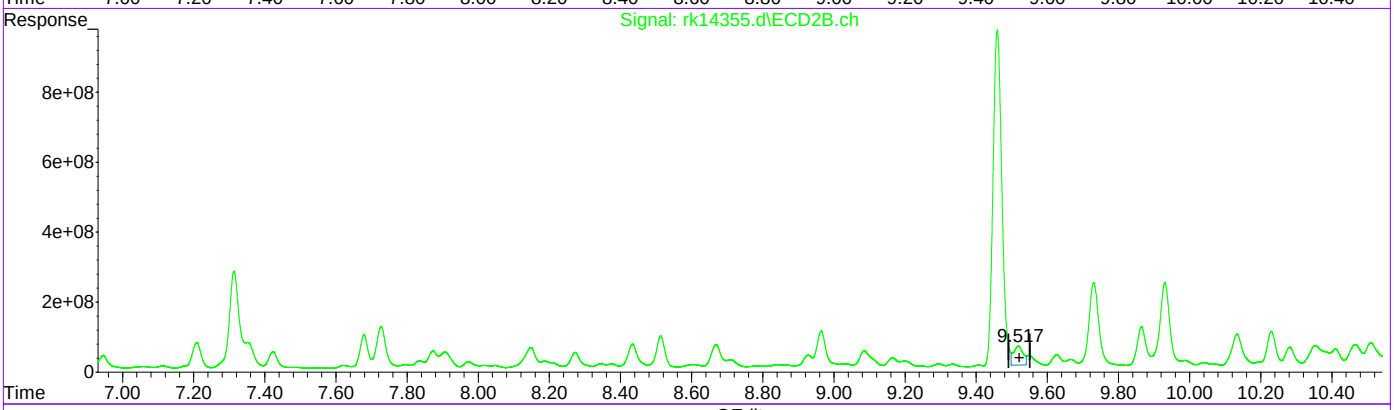
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:12:54 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14355.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:25 am
Operator  : chorngli
Sample    : op41180-ms
Misc      : op41180,grk355,16.1,,,10,1
ALS Vial  : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 23:11:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(38) AR1260-C

7.960min 178.322 PPB

response 274045318

(38) AR1260-C #2

9.517min 247.811 PPB m

response 1021856498

(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:13:09 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
08/14/22 14:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:42 am
Operator : chorngli
Sample : op41180-msd
Misc : op41180,grk355,16.4,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 14 14:10:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.948	3.621	728.3E6	1767.9E6	21.167	18.677
Spiked Amount	40.000			Recovery	=	52.92%	46.69%
51) S	Decachlor...	10.340	12.090	626.2E6	3525.1E6	18.355m	44.979m#
Spiked Amount	40.000			Recovery	=	45.89%	112.45%
	Target Compounds						
17)	AR1248-A	3.763	4.850	169.6E6	394.6E6	398.158	313.566
19)	AR1248-C	4.745	5.955	248.7E6	330.1E6	177.645	148.614
20)	AR1248-D	5.035	6.345	158.0E6	417.5E6	122.313	143.853
21)	AR1248-E	5.153	6.524	132.1E6	518.4E6	183.389	158.854
32)	AR1016-B	3.763	4.850	169.6E6	394.6E6	149.743	123.091
34)	AR1016-D	4.504	5.681	215.1E6	325.2E6	215.358	119.557 #
35)	AR1016-E	5.035	6.345	158.0E6	417.5E6	155.118	188.366
37)	AR1260-B	7.618	9.086	258.9E6	1460.2E6	150.341	385.224 #
38)	AR1260-C	7.960	9.523	207.5E6	852.0E6	135.009	206.629m#
39)	AR1260-D	8.398	9.865	727.3E6	1494.9E6	186.383	169.011
42)	AR1262-B	7.618	9.086	258.9E6	1460.2E6	100.529	249.897 #
43)	AR1262-C	7.960	9.523	207.5E6	730.2E6	103.607	140.701m#
44)	AR1262-D	8.398	9.865	727.3E6	1494.9E6	148.897	133.624

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

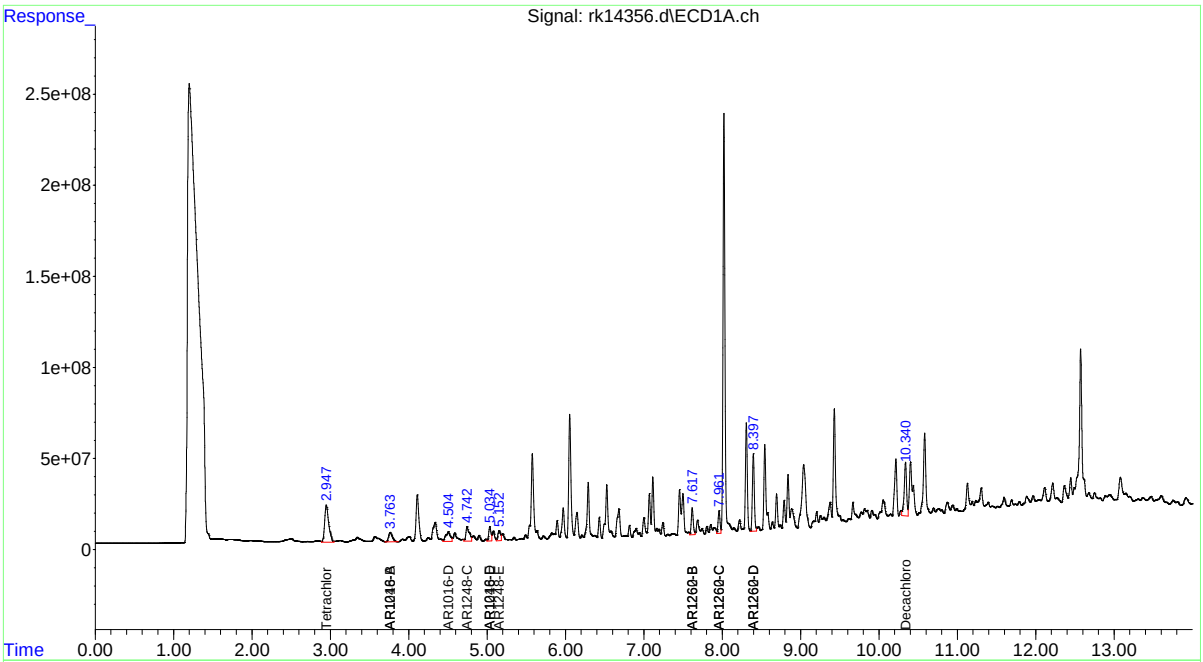
9.4.2
9

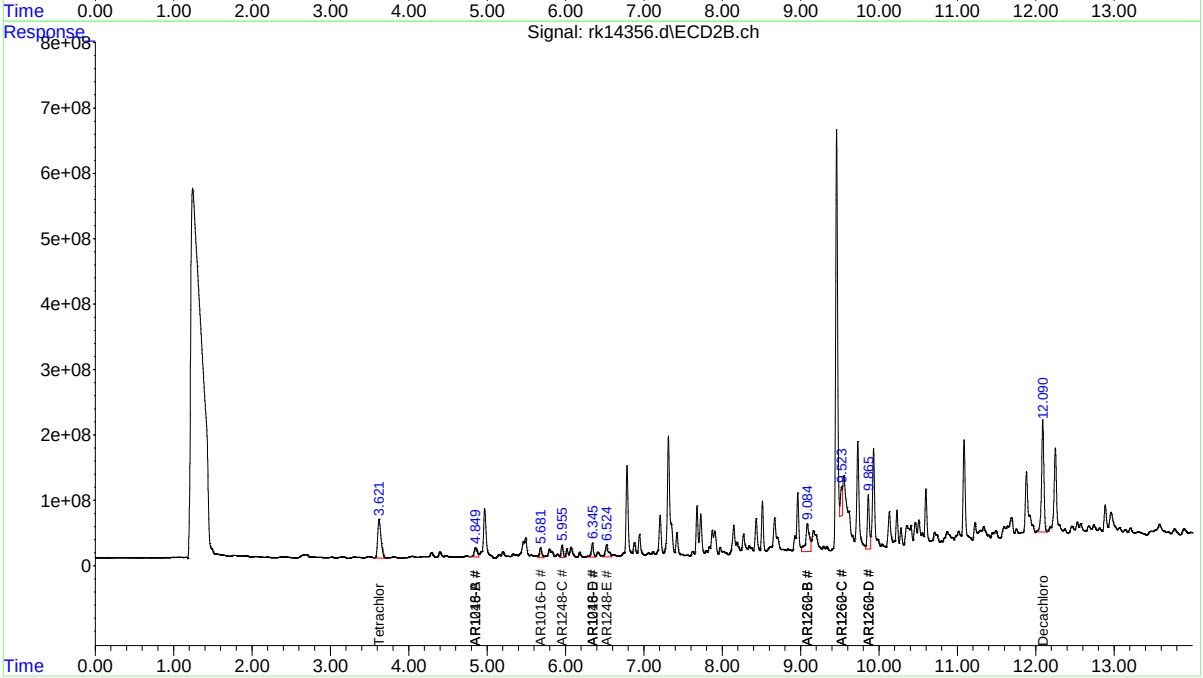
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:42 am
Operator : chorngli
Sample : op41180-msd
Misc : op41180,grk355,16.4,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 14 14:10:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





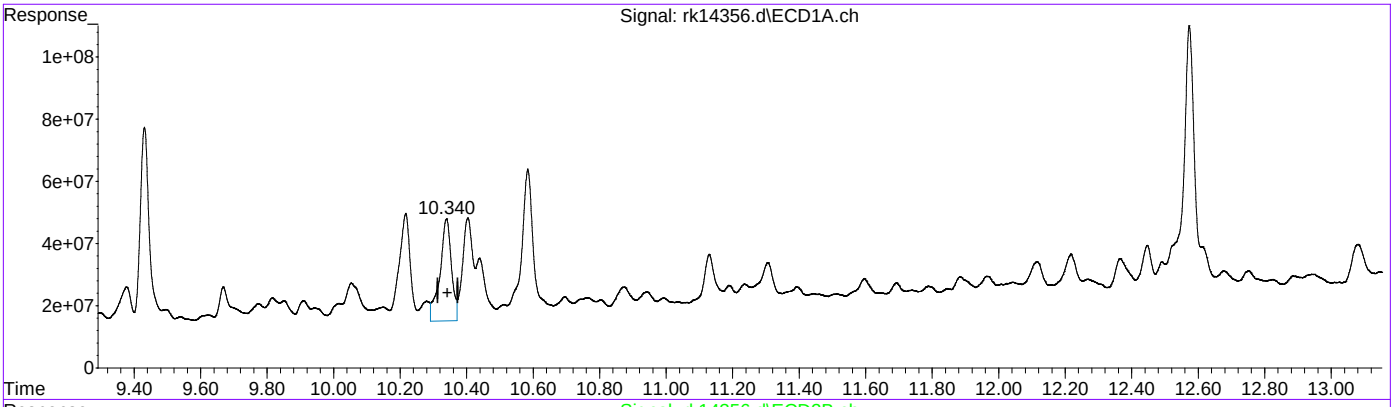
Manual Integration Approval Summary

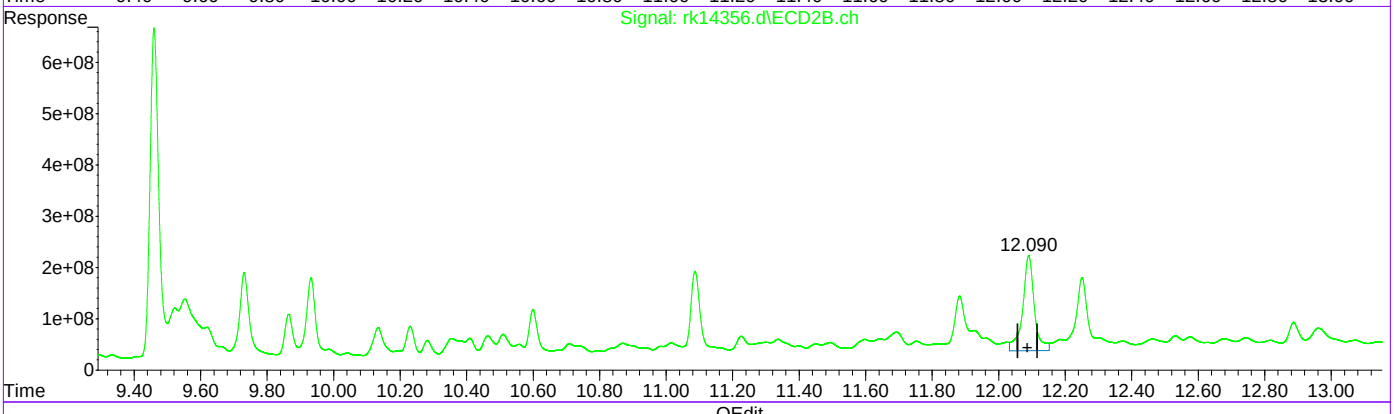
Sample Number:	OP41180-MSD	**Method:**	SW846 8082A
Lab FileID:	RK14356.D	**Analyst approved:**	08/14/22 14:20 Gwendolyn Burns
Injection Time:	08/12/22 02:42	**Supervisor approved:**	08/14/22 14:21 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-C		2	9.52	Poorly defined baseline
AR1262-C		2	9.52	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.34	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	12.09	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:42 am
Operator  : chorngli
Sample    : op41180-msd
Misc      : op41180,grk355,16.4,,,10,1
ALS Vial  : 12   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:43:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(51) Decachlorobiphenyl (S)

10.340min 23.230 ppb

response 792453481

(51) Decachlorobiphenyl #2 (S)

12.090min 57.642 ppb

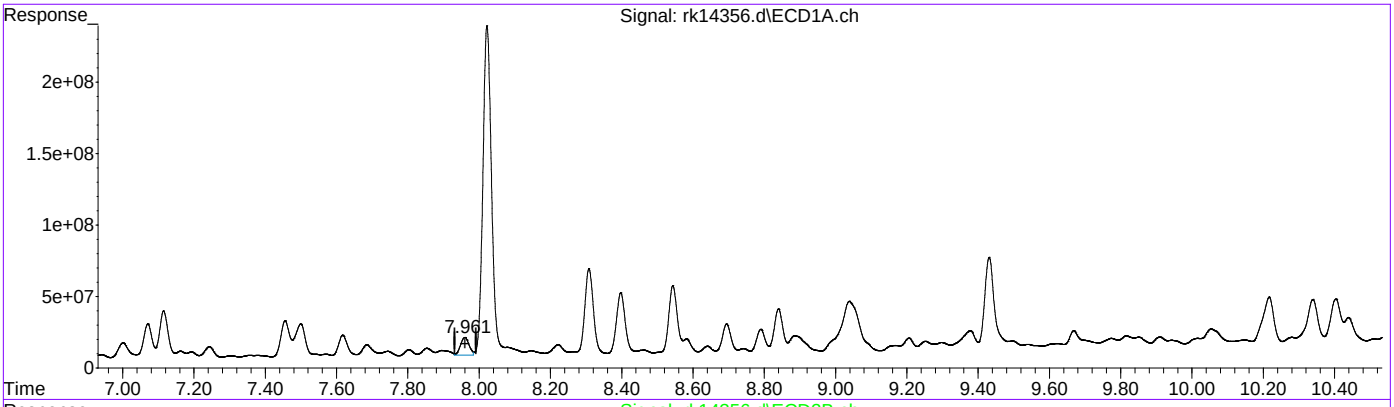
response 4517471813

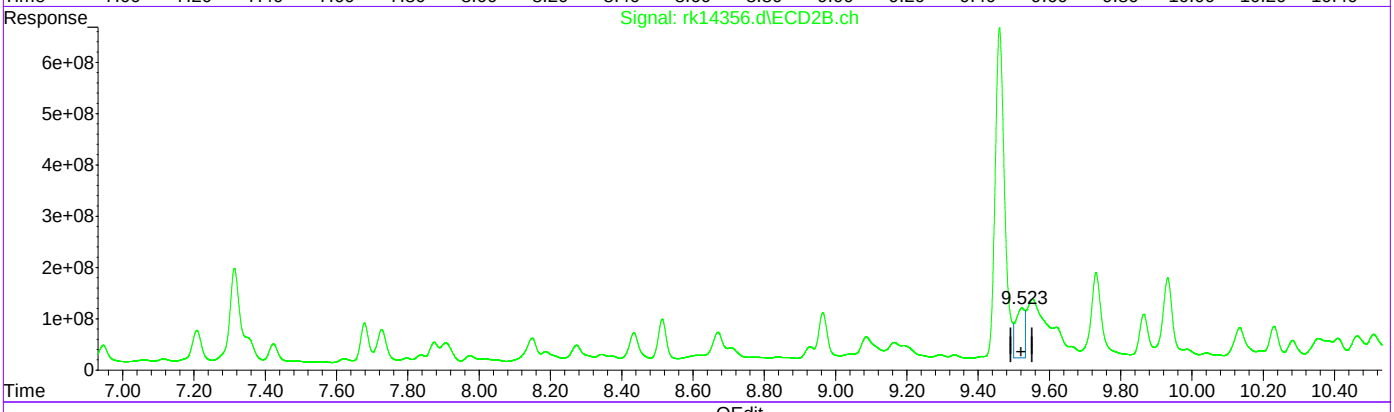
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:09:13 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:42 am
Operator  : chorngli
Sample    : op41180-msd
Misc      : op41180,grk355,16.4,,,10,1
ALS Vial  : 12   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:43:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(38) AR1260-C

7.960min 135.009 PPB

response 207482416

(38) AR1260-C #2

9.523min 408.517 PPB

response 1684533597

(+) = Expected Retention Time

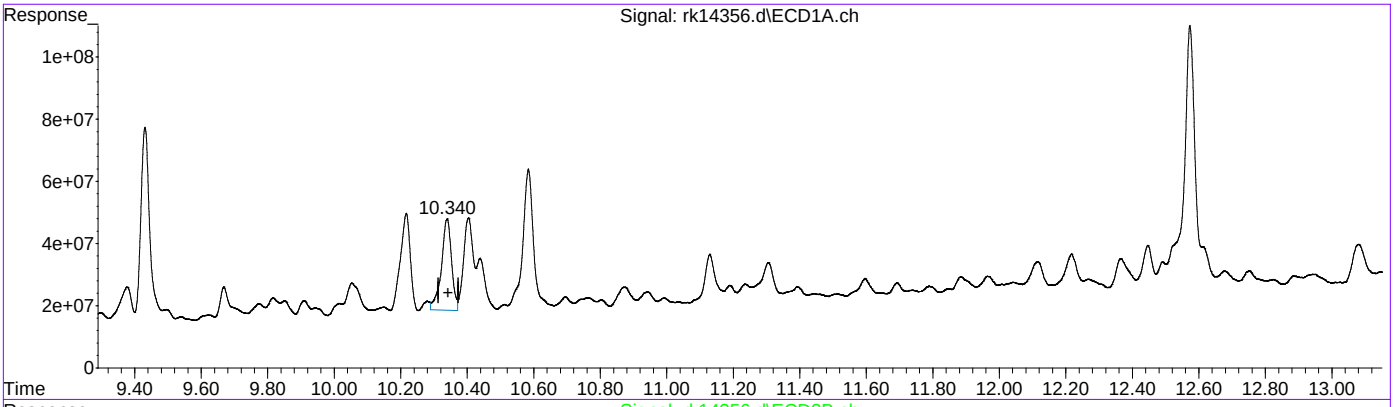
rkpcb339.m Sat Aug 13 23:10:10 2022

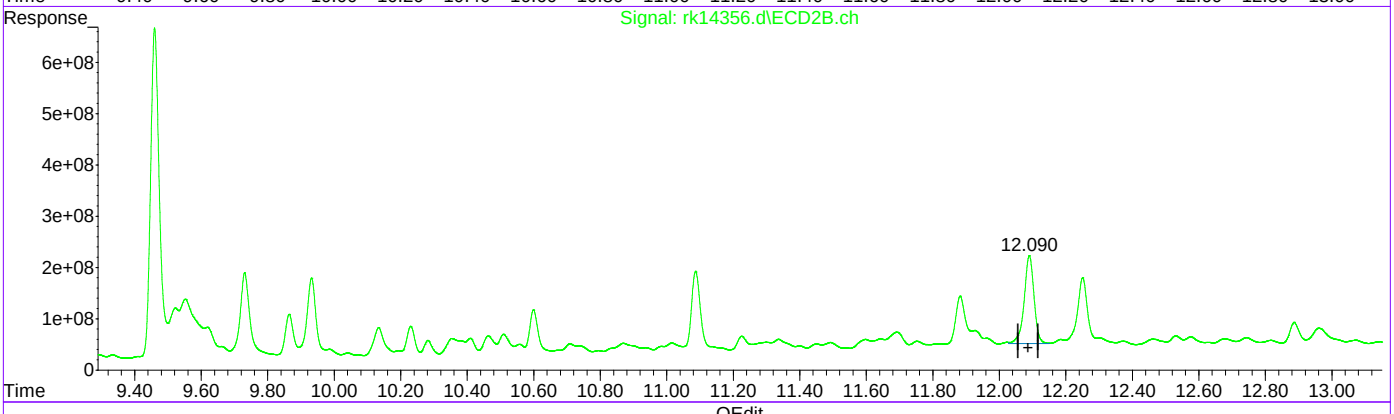
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 2:42 am
Operator : chorngli
Sample : op41180-msd
Misc : op41180,grk355,16.4,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:43:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)

10.340min 18.355 ppb m

response 626161605

(51) Decachlorobiphenyl #2 (S)

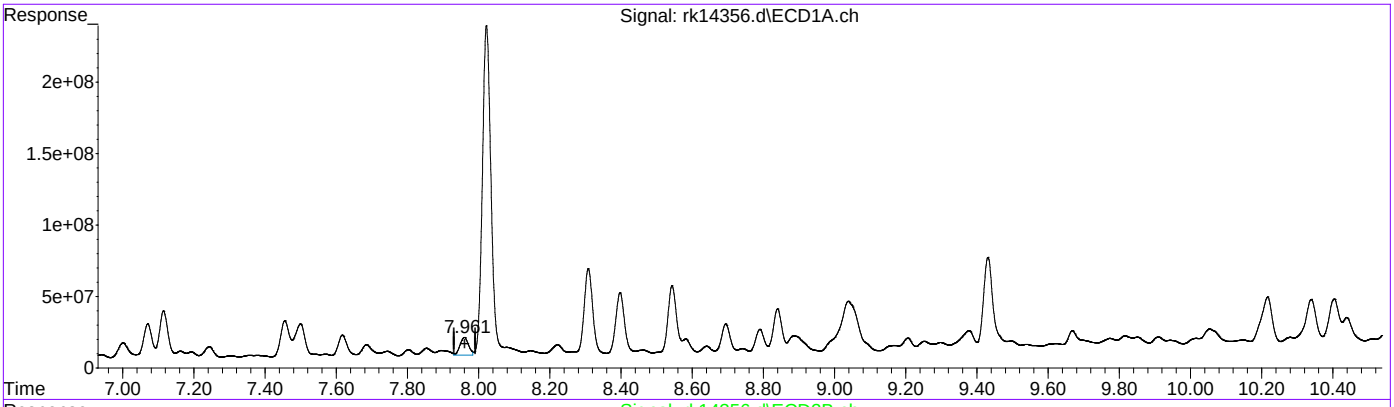
12.090min 44.979 ppb m

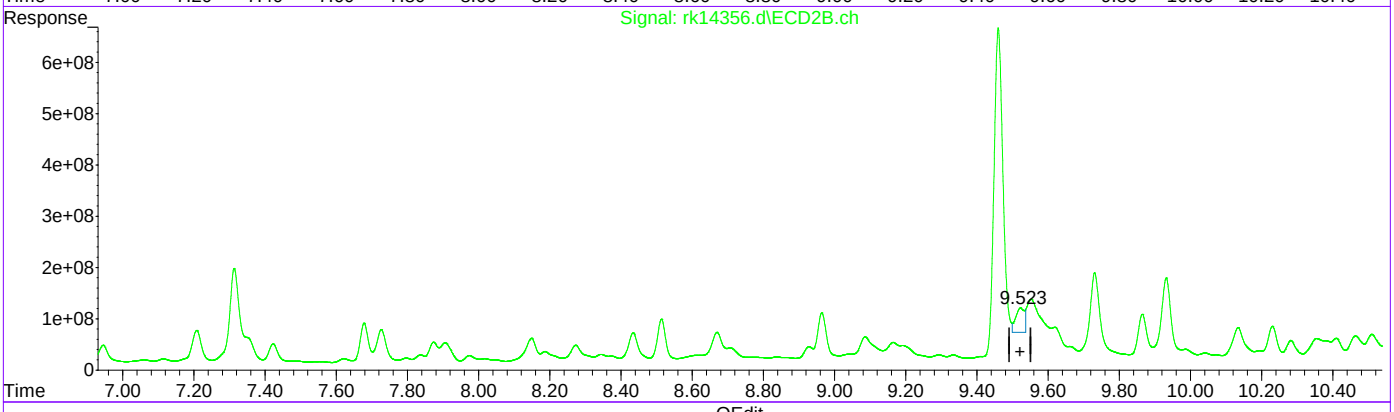
response 3525054521

(+) = Expected Retention Time
rkpcb339.m Sat Aug 13 23:14:06 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:42 am
Operator  : chorngli
Sample    : op41180-msd
Misc      : op41180,grk355,16.4,,,10,1
ALS Vial  : 12   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:43:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(38) AR1260-C

7.960min 135.009 PPB

response 207482416

(38) AR1260-C #2

9.523min 206.629 PPB m

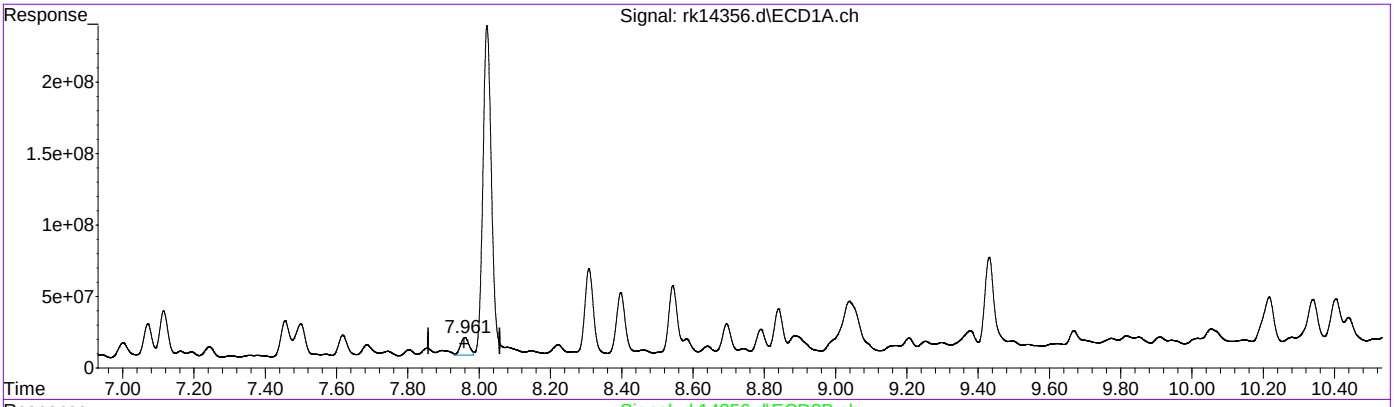
response 852041585

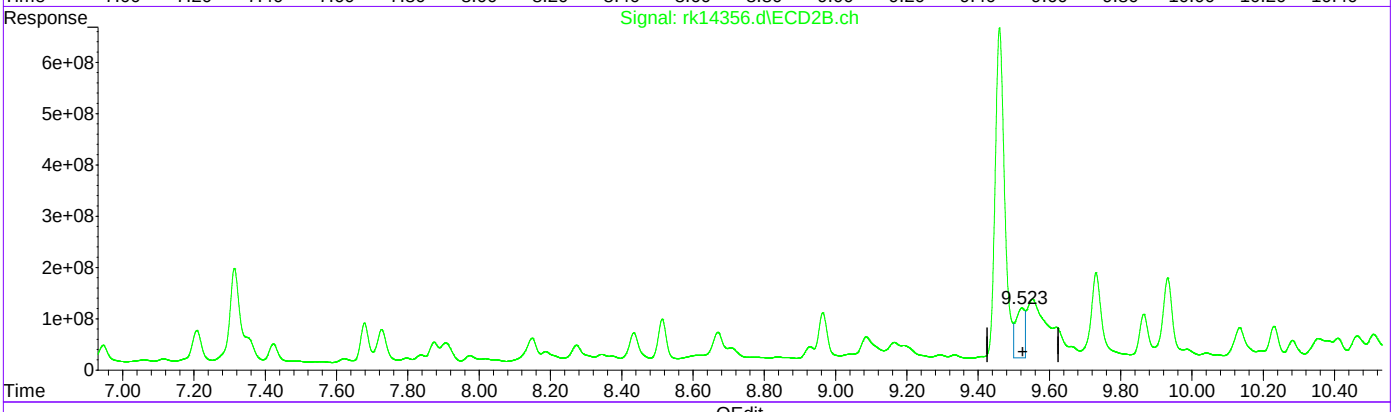
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:14:39 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:42 am
Operator  : chorngli
Sample    : op41180-msd
Misc      : op41180,grk355,16.4,,,10,1
ALS Vial  : 12   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:43:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(43) AR1262-C

7.960min 103.607 PPB

response 207482416

(43) AR1262-C #2

9.523min 324.576 PPB

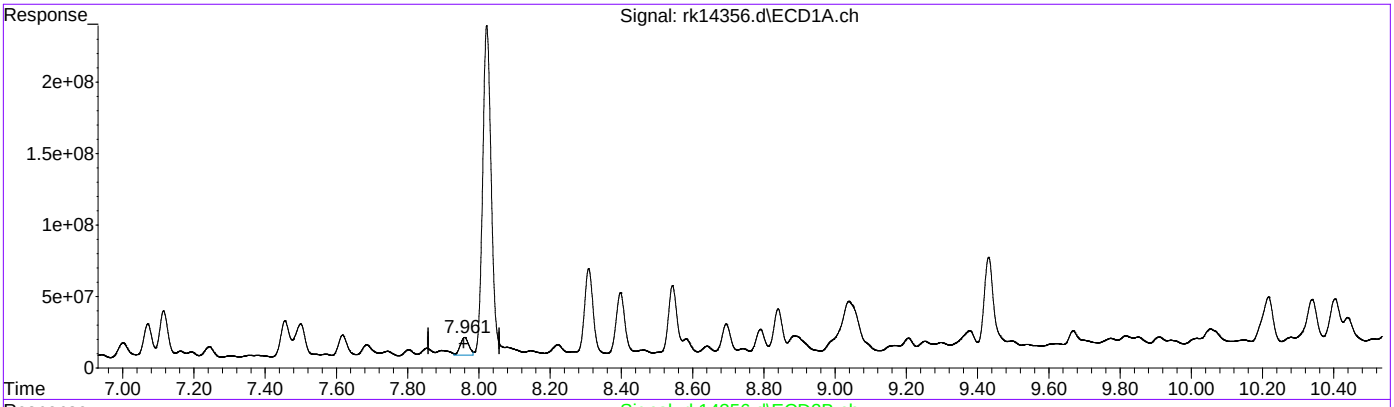
response 1684533597

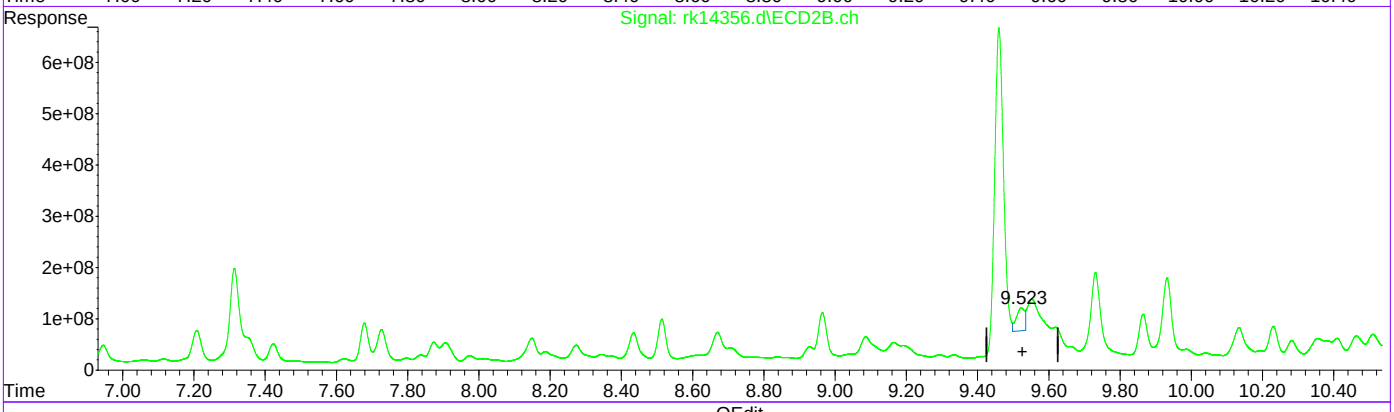
(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:14:49 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14356.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   2:42 am
Operator  : chorngli
Sample    : op41180-msd
Misc      : op41180,grk355,16.4,,,10,1
ALS Vial  : 12   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:43:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(43) AR1262-C

7.960min 103.607 PPB

response 207482416

(43) AR1262-C #2

9.523min 140.701 PPB m

response 730233281

(+) = Expected Retention Time

rkpcb339.m Sat Aug 13 23:14:57 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87593.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 11:01 pm
Operator : thomasl
Sample : op41170-ms
Misc : op41170,g2z3372,12.8,,,1,1
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:01:43 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.267	46109468	17.979 PPM
Spiked Amount 50.000		Recovery =	35.96%
10) S 5a-Androstane	9.954	34192385	18.501 PPM
Spiked Amount 50.000		Recovery =	37.00%
Target Compounds			
1) H TPH-DRO	8.250	579724804	371.419 PPM
2) H TPH-DRO (C10-C44)	12.870	694916328	445.220 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.4.3

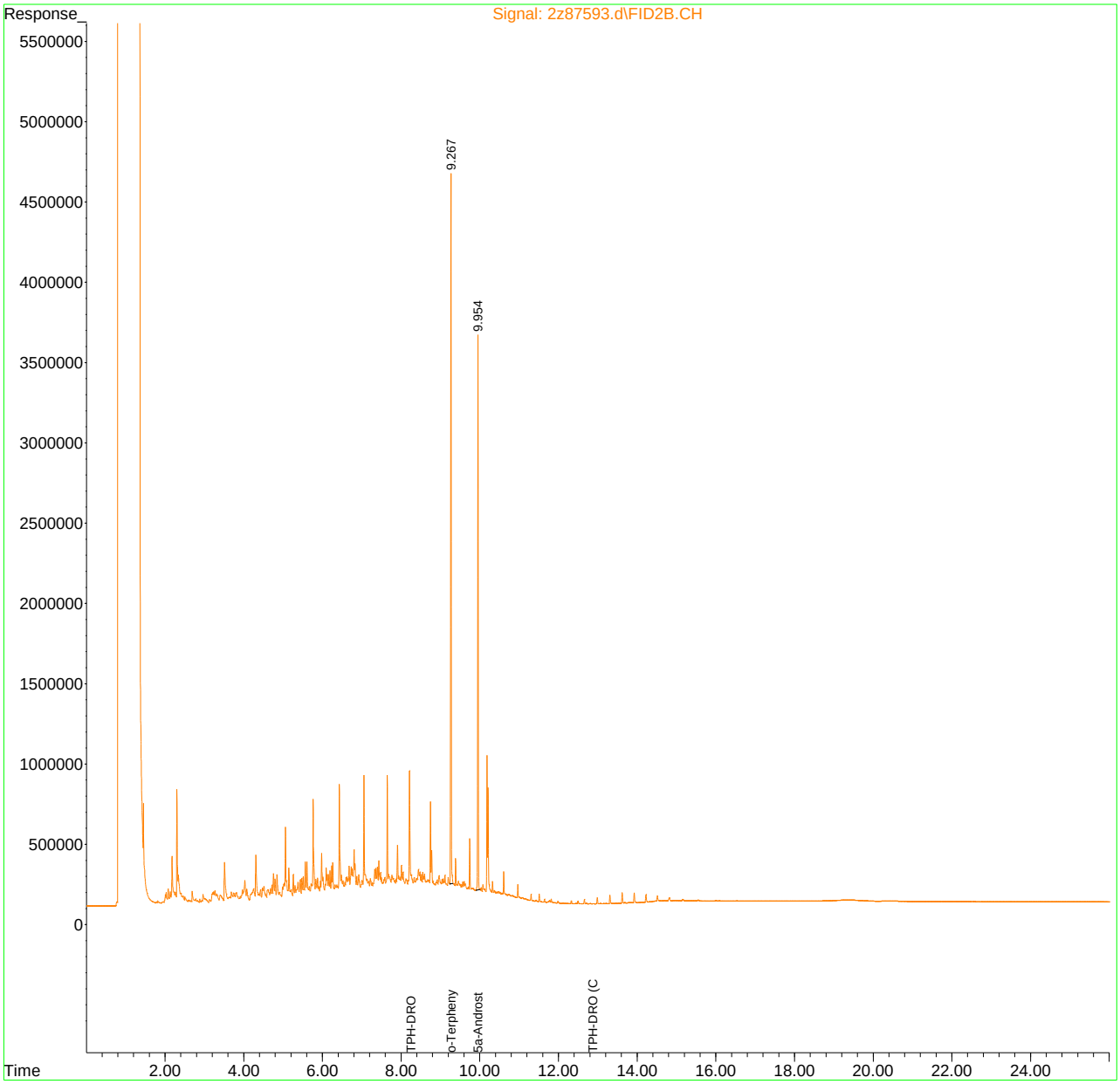
9

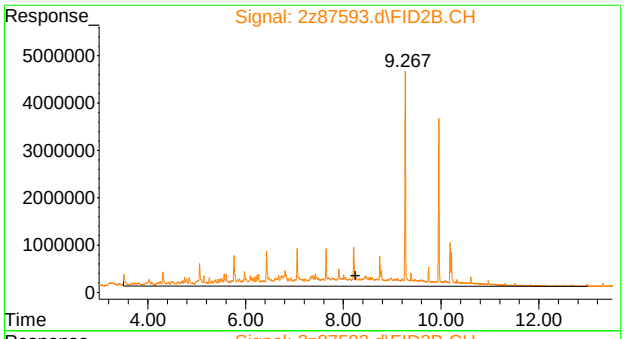
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87593.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 11:01 pm
Operator : thomasl
Sample : op41170-ms
Misc : op41170,g2z3372,12.8,,,1,1
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:01:43 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

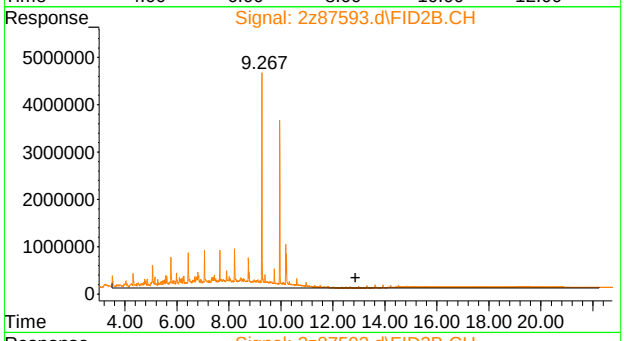
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





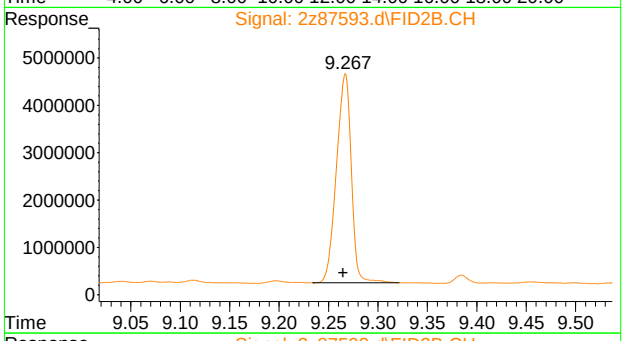
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 579724804
Conc: 371.42 PPM



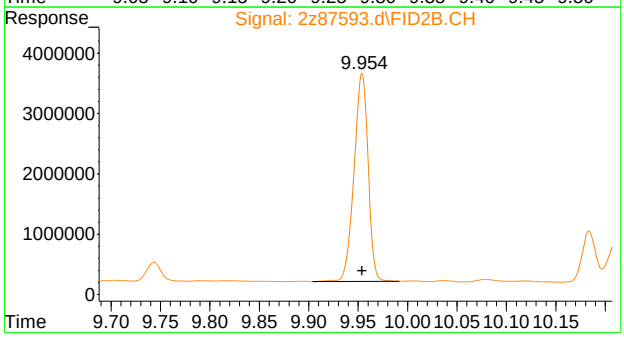
#2 TPH-DRO (C10-C44)

R.T.: 12.870 min
Delta R.T.: 0.000 min
Response: 694916328
Conc: 445.22 PPM



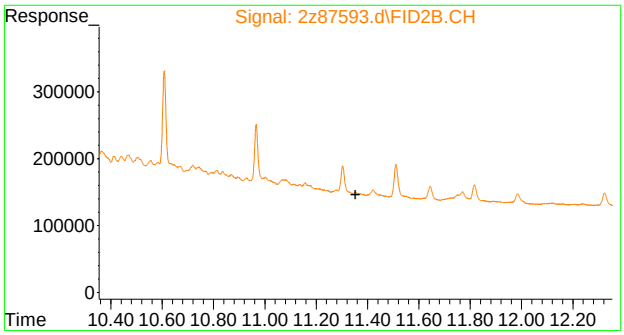
#9 o-Terphenyl

R.T.: 9.267 min
Delta R.T.: 0.002 min
Response: 46109468
Conc: 17.98 PPM



#10 5a-Androstane

R.T.: 9.954 min
Delta R.T.: 0.000 min
Response: 34192385
Conc: 18.50 PPM



#11 Tetracosane-d50

R.T.:	0.000 min
Exp R.T. :	11.353 min
Response:	0
Conc:	N.D.

Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 17:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87594.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 11:34 pm
Operator : thomasl
Sample : op41170-msd
Misc : op41170,g2z3372,10.3,,,1,1
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:02:21 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.269	70792895	27.604 PPM m
Spiked Amount 50.000		Recovery =	55.21%
10) S 5a-Androstane	9.955	51865225	28.063 PPM
Spiked Amount 50.000		Recovery =	56.13%
Target Compounds			
1) H TPH-DRO	8.250	949425652	608.280 PPM
2) H TPH-DRO (C10-C44)	12.870	978258706	626.753 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

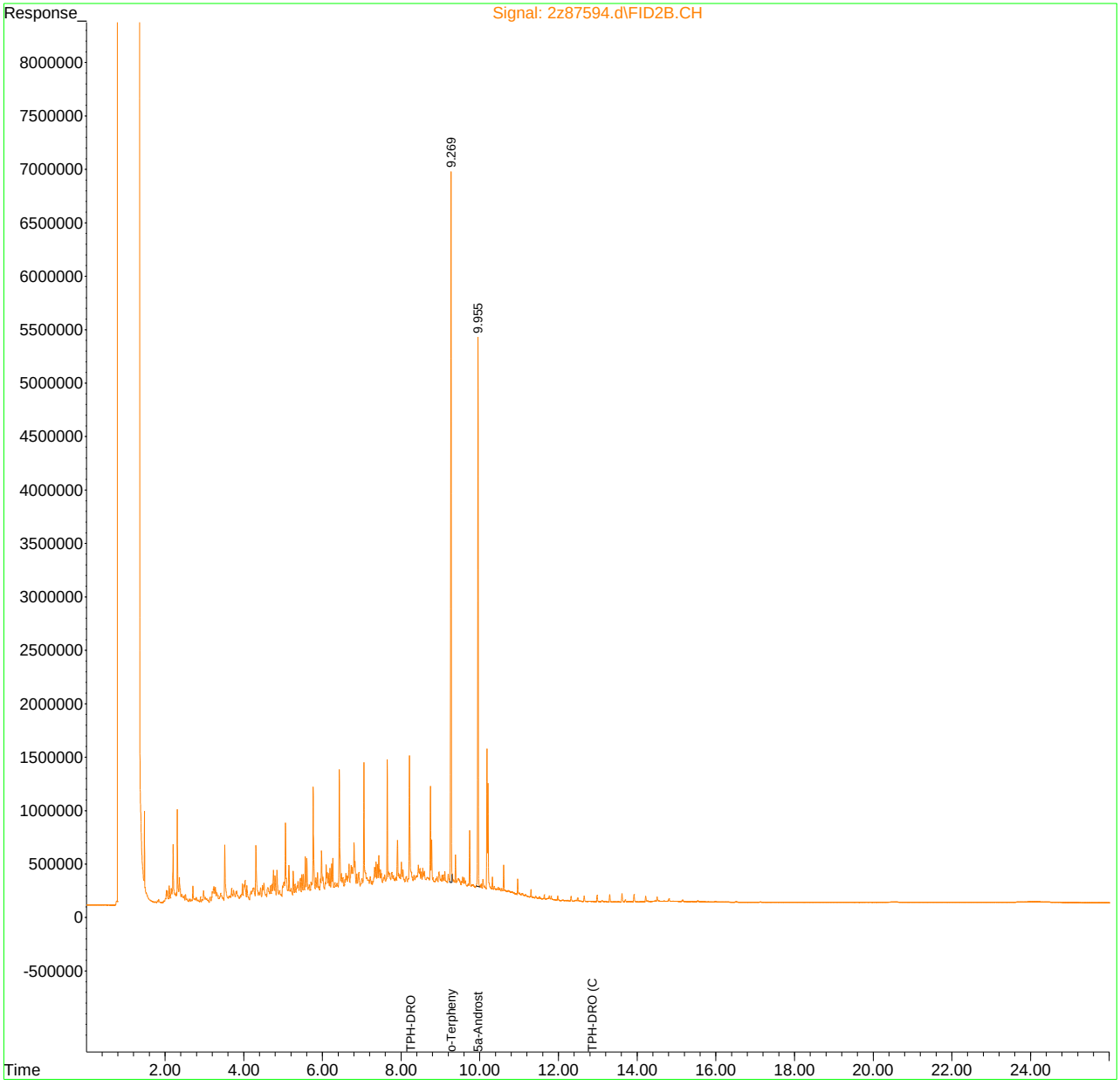
9.4.4
9

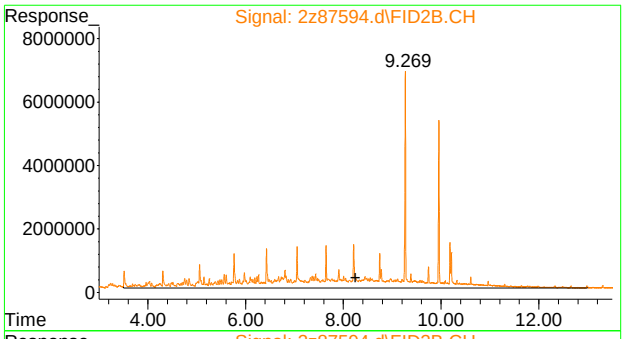
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87594.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 11:34 pm
Operator : thomasl
Sample : op41170-msd
Misc : op41170,g2z3372,10.3,,,1,1
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:02:21 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

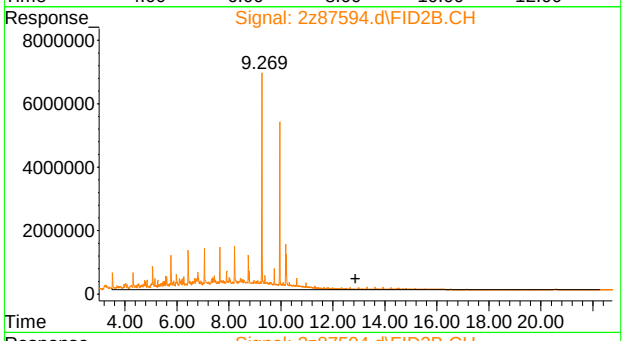
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





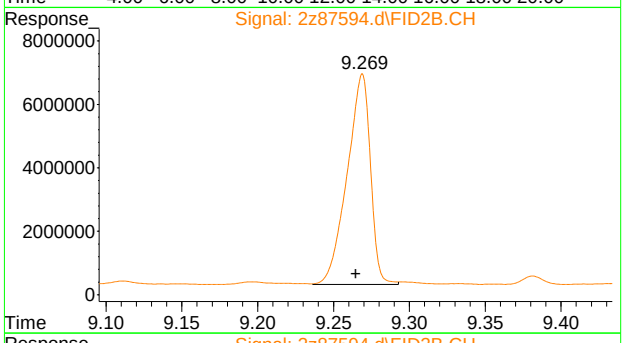
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 949425652
Conc: 608.28 PPM



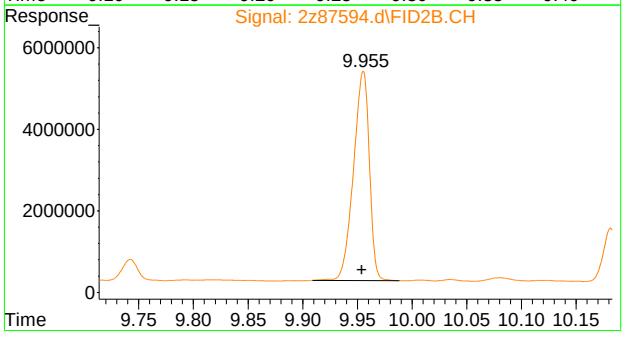
#2 TPH-DRO (C10-C44)

R.T.: 12.870 min
Delta R.T.: 0.000 min
Response: 978258706
Conc: 626.75 PPM



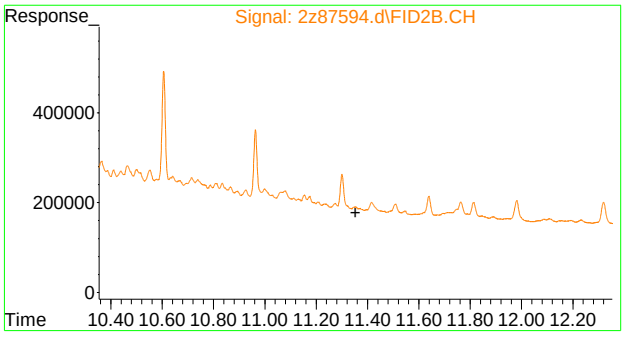
#9 o-Terphenyl

R.T.: 9.269 min
Delta R.T.: 0.004 min
Response: 70792895
Conc: 27.60 PPM m



#10 5a-Androstane

R.T.: 9.955 min
Delta R.T.: 0.001 min
Response: 51865225
Conc: 28.06 PPM



#11 Tetracosane-d50

R.T.:	0.000 min
Exp R.T. :	11.353 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number:	OP41170-MSD	**Method:**	SW846 8015D
Lab FileID:	2Z87594.D	**Analyst approved:**	08/11/22 16:44 Jason Savoie
Injection Time:	08/10/22 23:34	**Supervisor approved:**	08/11/22 17:29 Jason Savoie

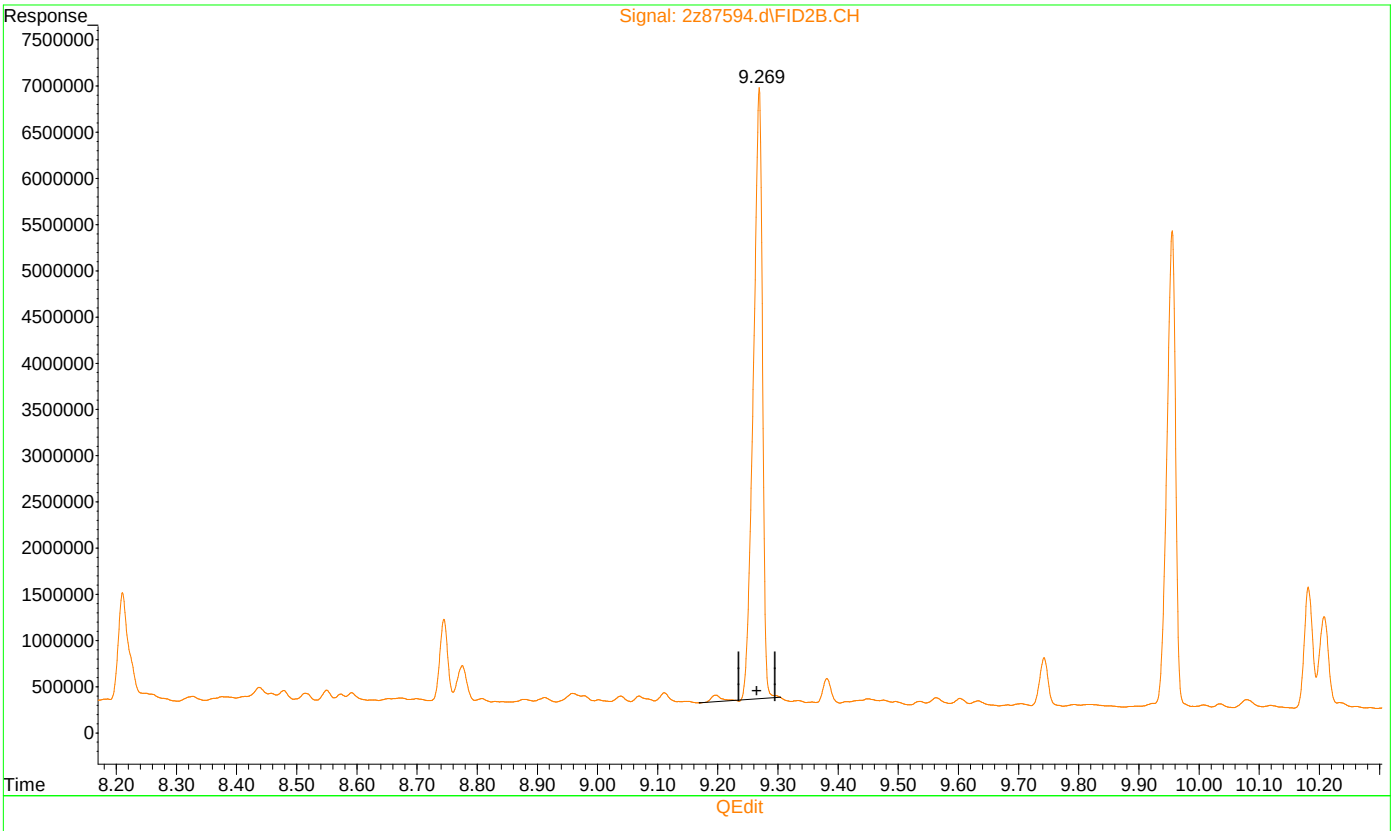
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87594.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 11:34 pm
Operator : thomasl
Sample : op41170-msd
Misc : op41170,g2z3372,10.3,,,1,1
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:34:20 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.269min 27.412 PPM

response 70301598

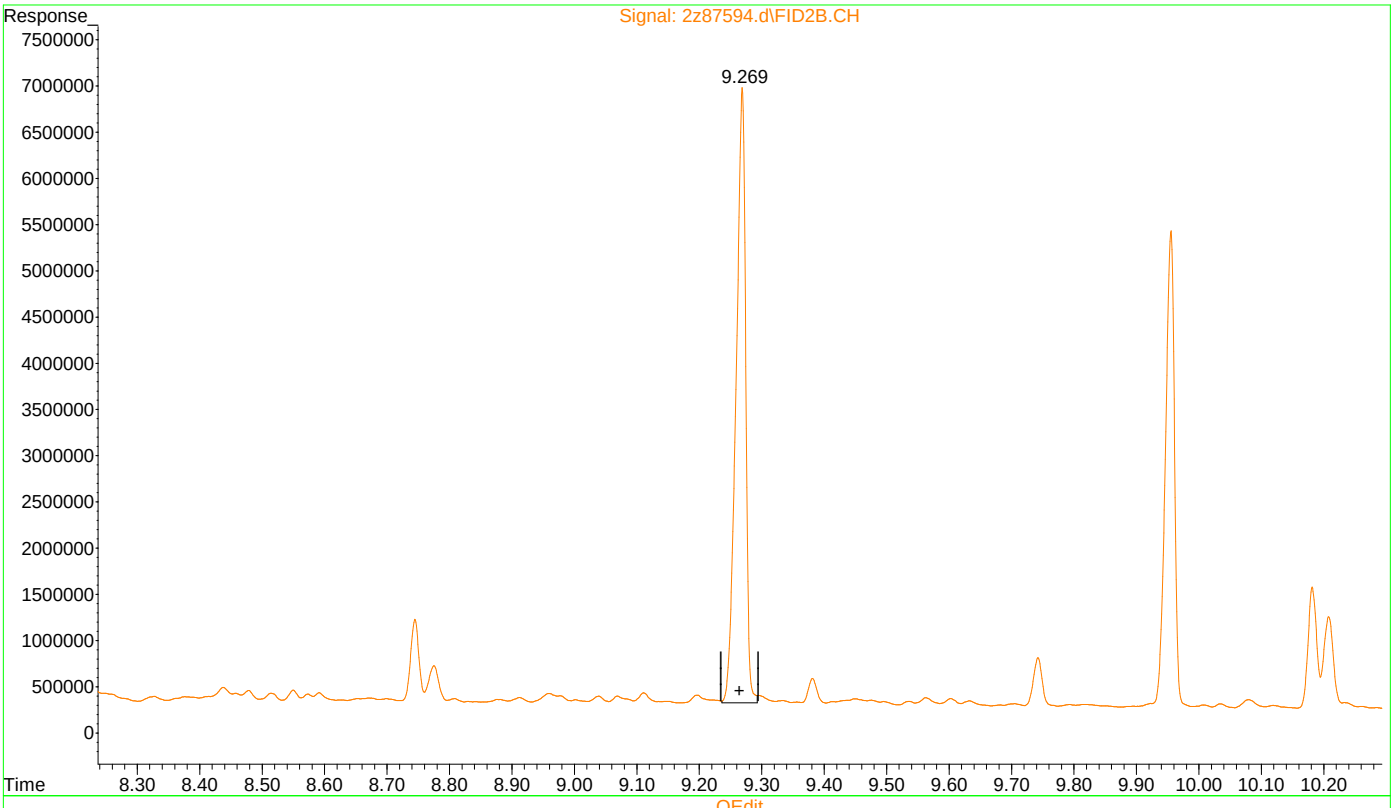
(+) = Expected Retention Time
dro2z3259.m Thu Aug 11 04:02:12 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87594.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 11:34 pm
Operator : thomasl
Sample : op41170-msd
Misc : op41170,g2z3372,10.3,,,1,1
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:34:20 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.269min 27.604 PPM m

response 70792895

(+) = Expected Retention Time
dro2z3259.m Thu Aug 11 04:02:25 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107725.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 4:53 pm
Operator : thomasl
Sample : rt
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 16 10:52:39 2022
Quant Method : C:\msdchem\1\METHODS\RTWINDOW, 2Y.M
Quant Title :
QLast Update : Wed Mar 16 10:52:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	C9	2.188	61144852	259.668	ppm
2) T	C10	3.796	138441155	249.921	ppm
3) T	C12	5.365	150327147	249.663	ppm
4) T	C14	6.751	151345540	250.192	ppm
5) T	C16	7.987	155851921	250.226	ppm
6) T	C18	9.097	156874487	250.064	ppm
7) T	C20	10.105	159369791	250.072	ppm
8) T	C22	10.918	161746467	250.233	ppm
9) T	C24	11.624	164195308	250.580	ppm
10) T	C26	12.332	166927180	250.466	ppm
11) T	C28	13.024	167972063	246.448	ppm
12) T	C30	13.685	169628671	241.602	ppm
13) T	C32	14.313	170276572	252.490	ppm
14) T	C34	14.947	173291536	253.884	ppm
15) T	C36	15.740	173589094	249.971	ppm
16) T	C38	16.800	164654621	247.824	ppm
17) T	C40	18.252	145413000	248.167	ppm
18) T	C44	22.571	32137783	250.250	ppm

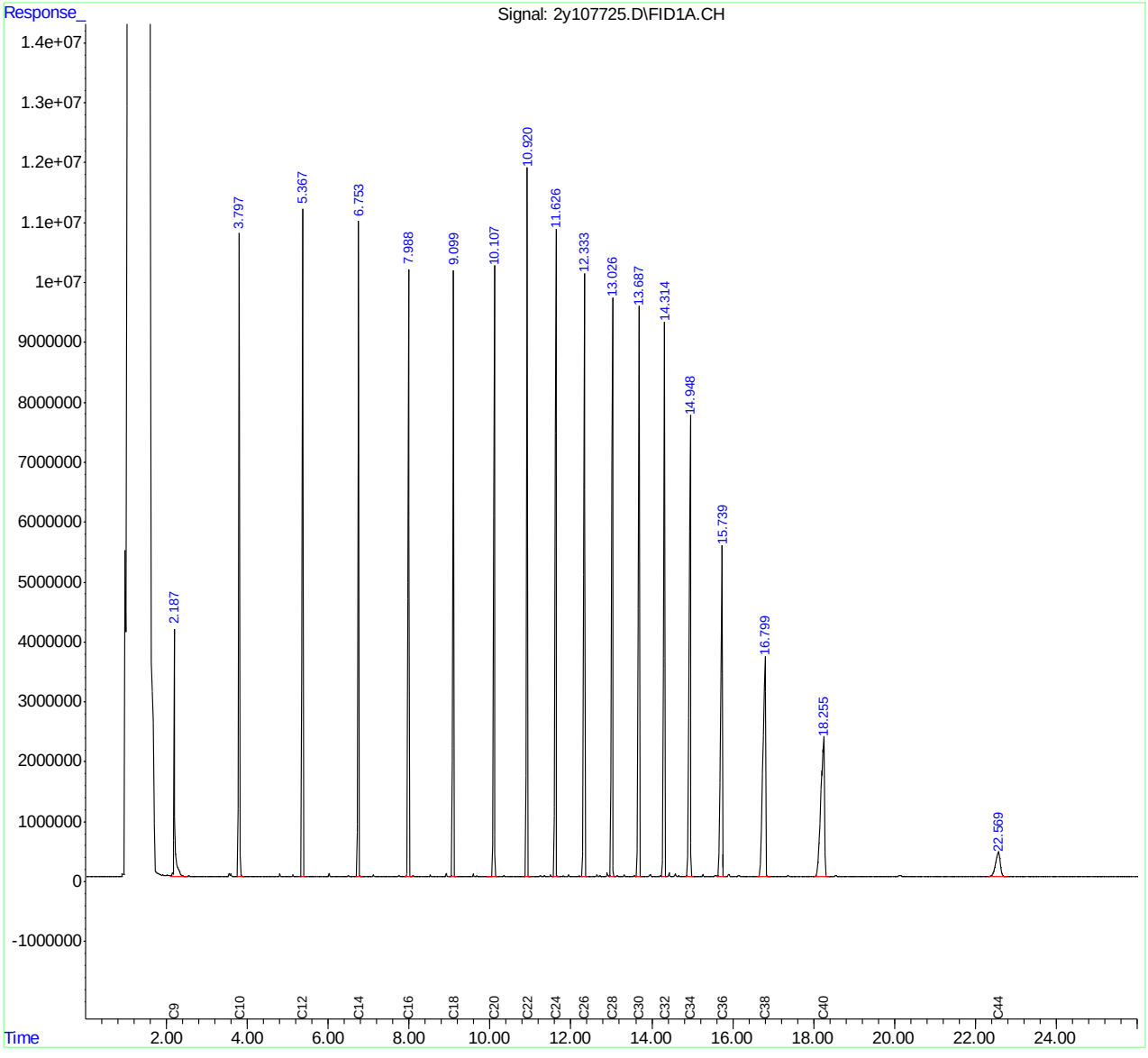
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107725.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 4:53 pm
Operator : thomasl
Sample : rt
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 16 10:52:39 2022
Quant Method : C:\msdchem\1\METHODS\RTWINDOW, 2Y.M
Quant Title :
QLast Update : Wed Mar 16 10:52:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109588.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 4:04 pm
Operator : thomasl
Sample : rt
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 11 03:33:46 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2y.m
Quant Title :
QLast Update : Thu Aug 11 03:33:30 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units
Target Compounds					
2) T	C10	3.736	133284526	69.898	ppm
3) T	C12	5.300	135591301	69.704	ppm
4) T	C14	6.685	138918737	68.779	ppm
5) T	C16	7.918	140226680	65.179	ppm
6) T	C18	9.027	143367860	64.010	ppm
7) T	C20	10.035	146837642	62.853	ppm
8) T	C22	10.860	147143827	61.438	ppm
9) T	C24	11.561	147822741	62.551	ppm
10) T	C26	12.267	147166928	62.227	ppm
11) T	C28	12.955	141417059	58.761	ppm
12) T	C30	13.615	130513141	53.563	ppm
13) T	C32	14.241	109538539	46.507	ppm
14) T	C34	14.852	81108551	34.381	ppm
15) T	C36	15.600	57277110	25.939	ppm
16) T	C38	16.593	38037694	18.890	ppm
17) T	C40	17.955	24895670	13.701	ppm
18) T	C44	22.191	11811983	86.777	ppm

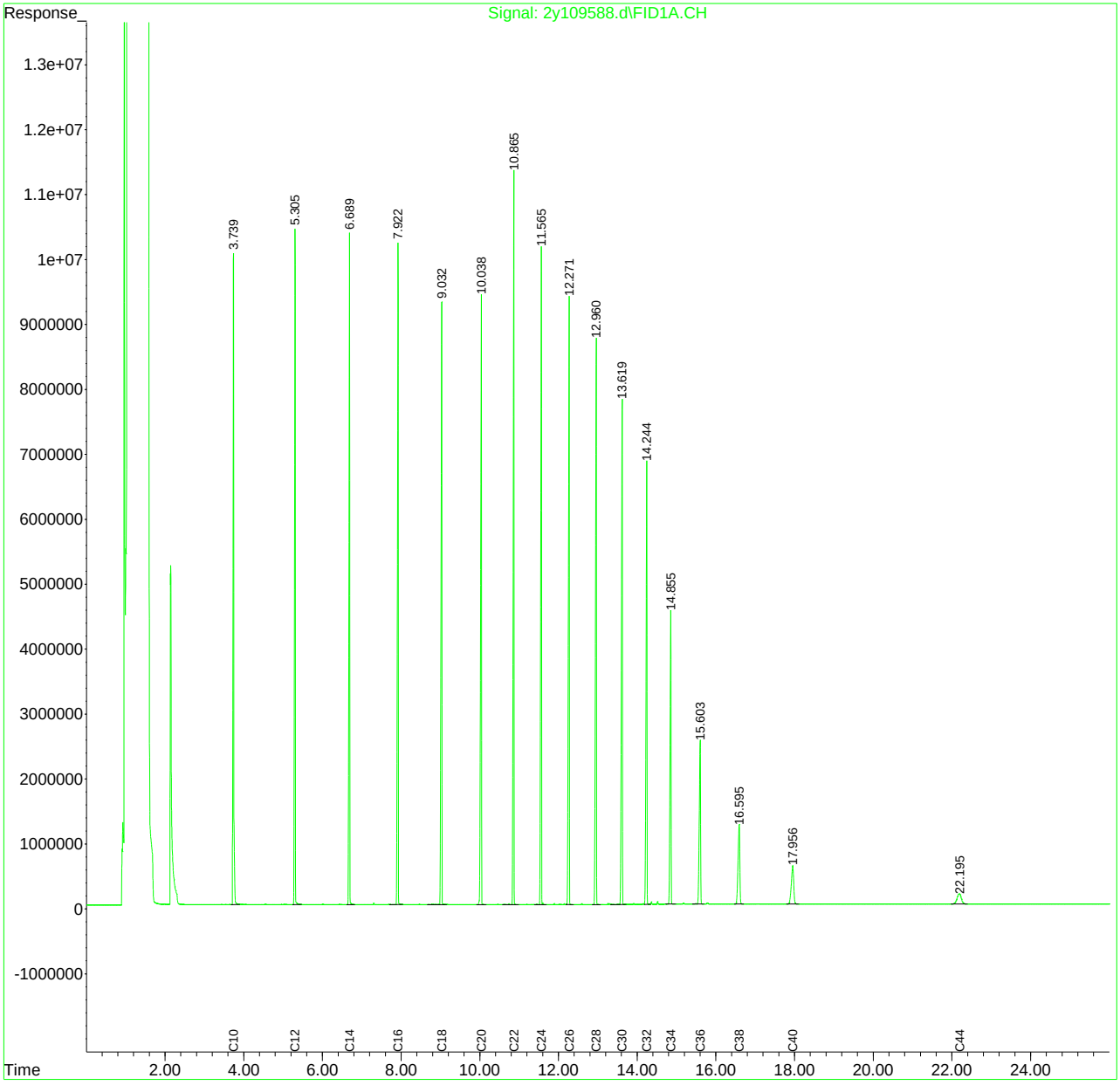
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109588.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 4:04 pm
Operator : thomasl
Sample : rt
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 11 03:33:46 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2y.m
Quant Title :
QLast Update : Thu Aug 11 03:33:30 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109609.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 1:13 pm
Operator : thomasl
Sample : rt
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 15 06:10:07 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2y.m
Quant Title :
QLast Update : Mon Aug 15 06:09:37 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	C9	2.139	128180896	76.509	ppm	
2) T	C10	3.730	136871433	71.779	ppm	
3) T	C12	5.293	139163370	71.540	ppm	
4) T	C14	6.675	142309459	70.458	ppm	
5) T	C16	7.907	143807237	66.843	ppm	
6) T	C18	9.017	146704762	65.500	ppm	
7) T	C20	10.025	150299434	64.334	ppm	
8) T	C22	10.852	150146112	62.691	ppm	
9) T	C24	11.554	149953699	63.453	ppm	
10) T	C26	12.258	147717304	62.460	ppm	
11) T	C28	12.946	138846648	57.693	ppm	
12) T	C30	13.606	124891350	51.256	ppm	
13) T	C32	14.230	103242799	43.834	ppm	
14) T	C34	14.841	76714176	32.518	ppm	
15) T	C36	15.587	54701334	24.773	ppm	
16) T	C38	16.575	36777133	18.264	ppm	
17) T	C40	17.929	23852025	13.127	ppm	
18) T	C44	22.168	10842077	79.651	ppm	m

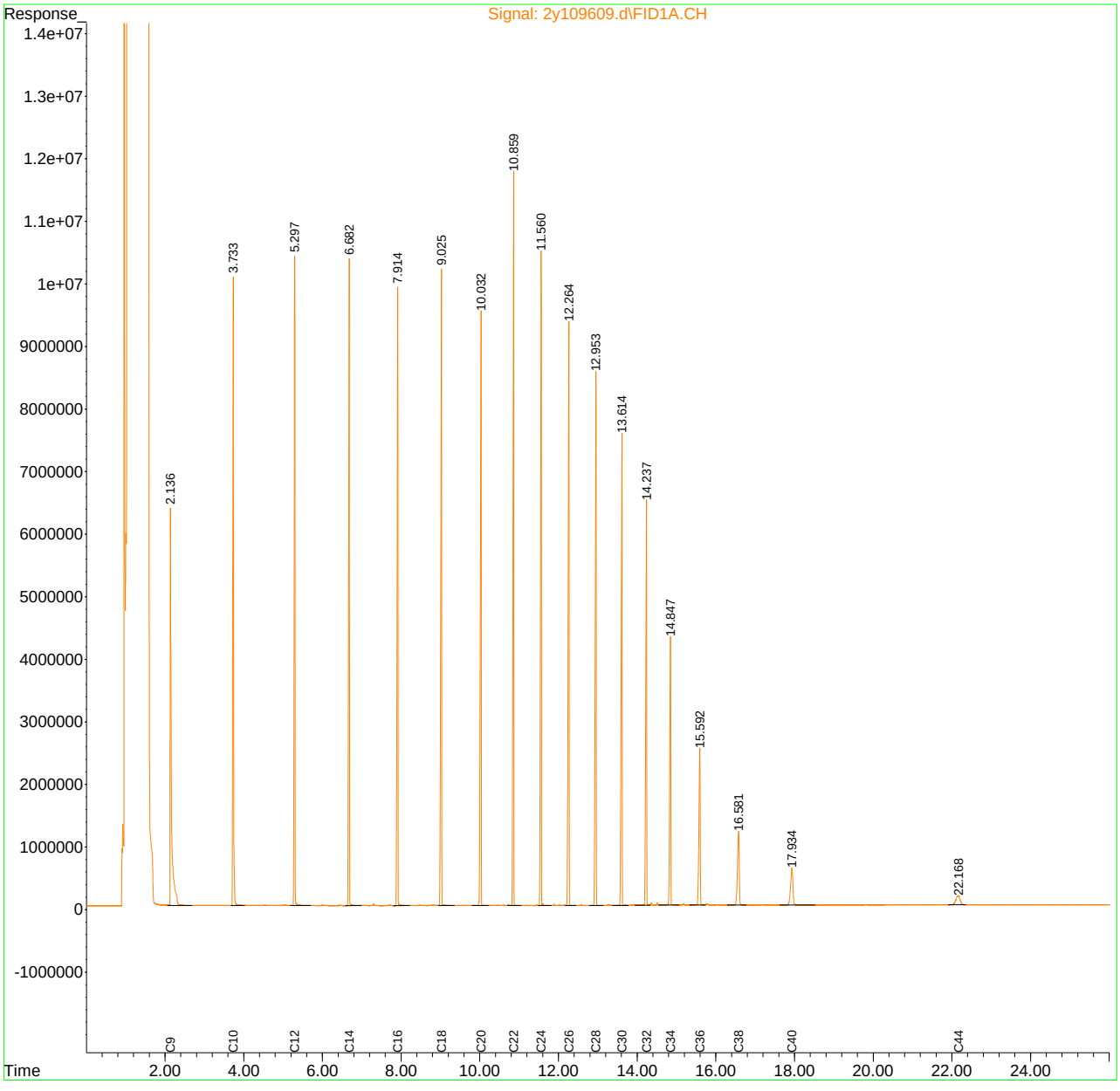
(f)=RT Delta > 1/2 Window (m)=manual int.

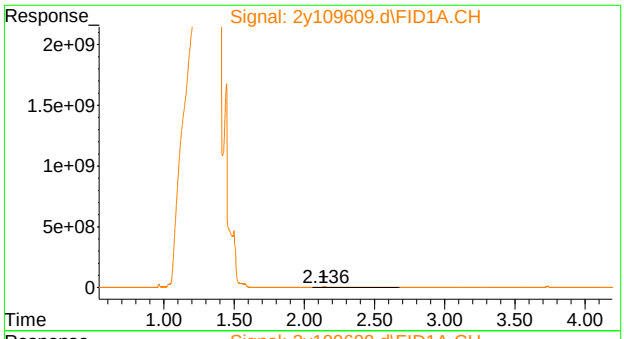
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109609.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 1:13 pm
Operator : thomasl
Sample : rt
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 15 06:10:07 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2y.m
Quant Title :
QLast Update : Mon Aug 15 06:09:37 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

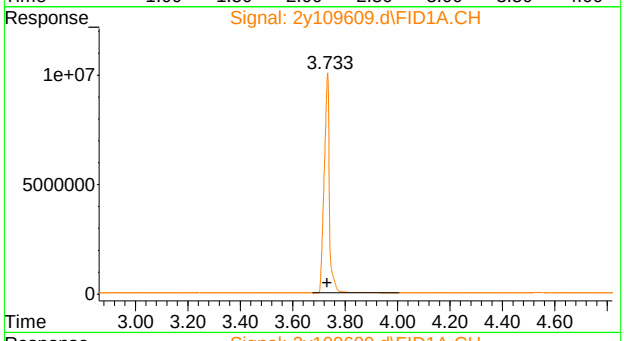
Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um





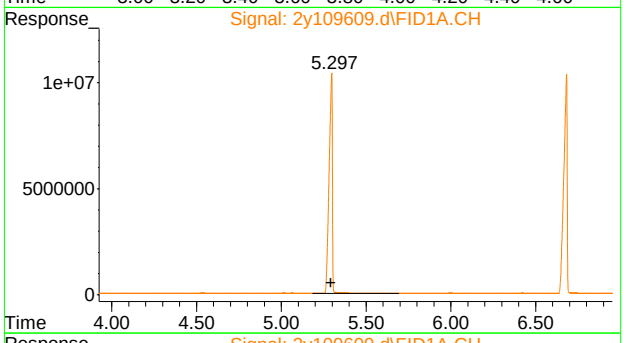
#1 C9

R.T.: 2.139 min
Delta R.T.: 0.000 min
Response: 128180896
Conc: 76.51 ppm



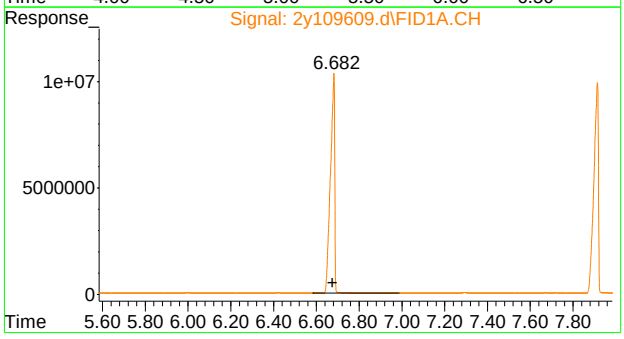
#2 C10

R.T.: 3.730 min
Delta R.T.: 0.000 min
Response: 136871433
Conc: 71.78 ppm



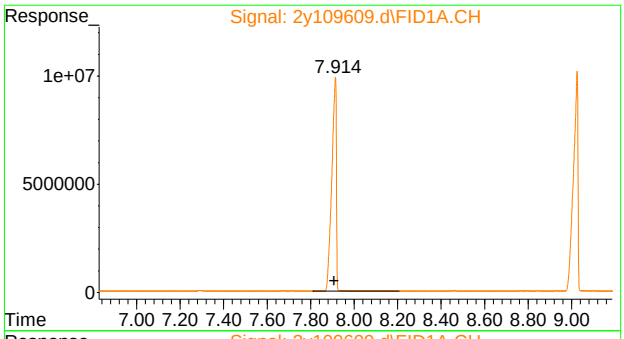
#3 C12

R.T.: 5.293 min
Delta R.T.: 0.000 min
Response: 139163370
Conc: 71.54 ppm



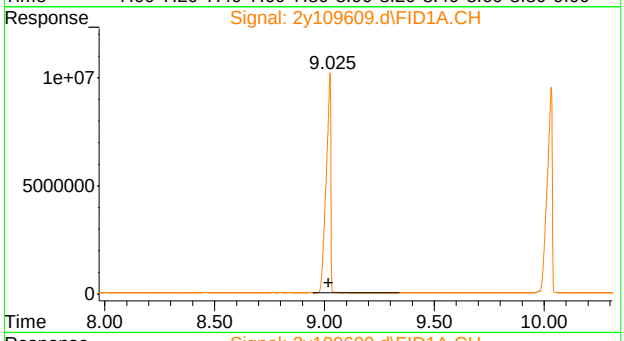
#4 C14

R.T.: 6.675 min
Delta R.T.: 0.000 min
Response: 142309459
Conc: 70.46 ppm



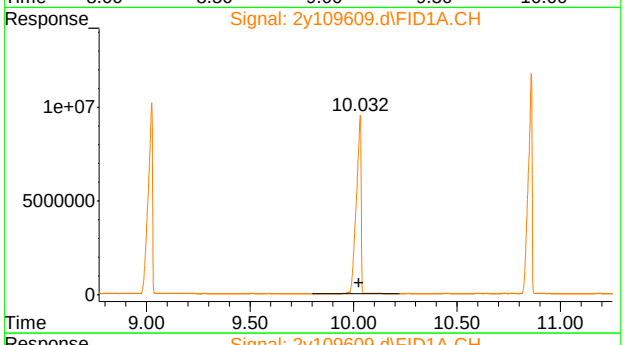
#5 C16

R.T.: 7.907 min
Delta R.T.: 0.000 min
Response: 143807237
Conc: 66.84 ppm



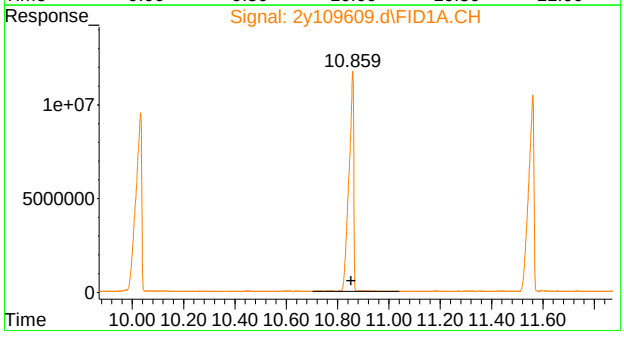
#6 C18

R.T.: 9.017 min
Delta R.T.: 0.000 min
Response: 146704762
Conc: 65.50 ppm



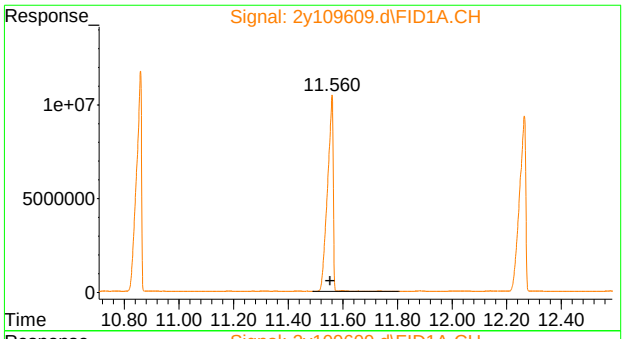
#7 C20

R.T.: 10.025 min
Delta R.T.: 0.000 min
Response: 150299434
Conc: 64.33 ppm



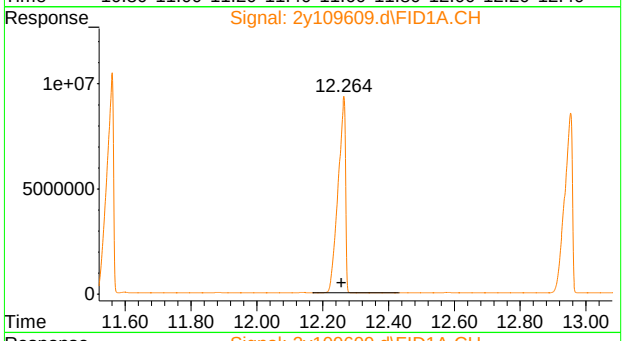
#8 C22

R.T.: 10.852 min
Delta R.T.: 0.000 min
Response: 150146112
Conc: 62.69 ppm



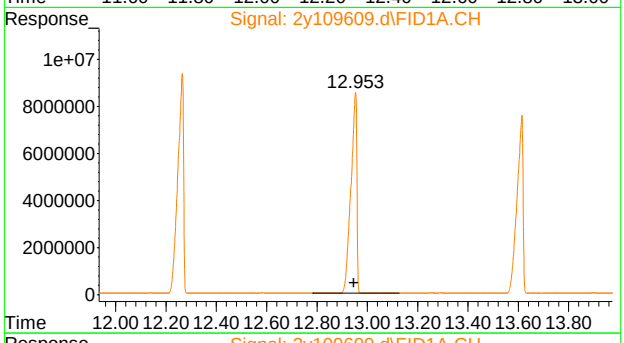
#9 C24

R.T.: 11.554 min
Delta R.T.: 0.000 min
Response: 149953699
Conc: 63.45 ppm



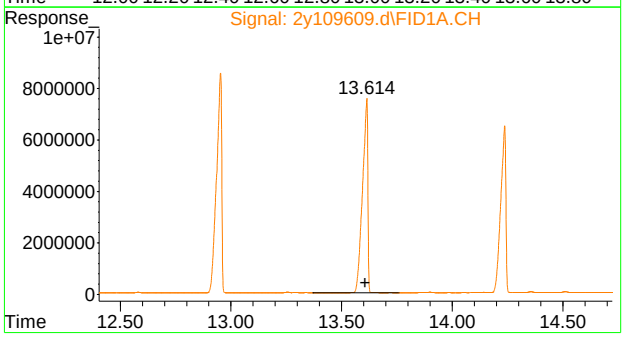
#10 C26

R.T.: 12.258 min
Delta R.T.: 0.000 min
Response: 147717304
Conc: 62.46 ppm



#11 C28

R.T.: 12.946 min
Delta R.T.: 0.000 min
Response: 138846648
Conc: 57.69 ppm

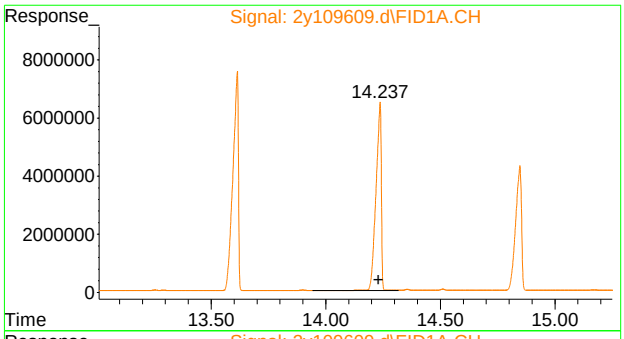


#12 C30

R.T.: 13.606 min
Delta R.T.: 0.000 min
Response: 124891350
Conc: 51.26 ppm

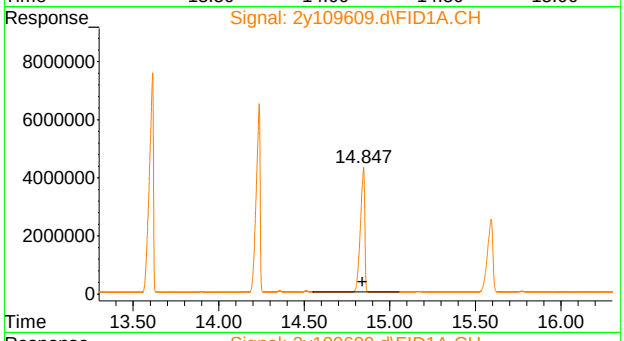
9.5.3

9



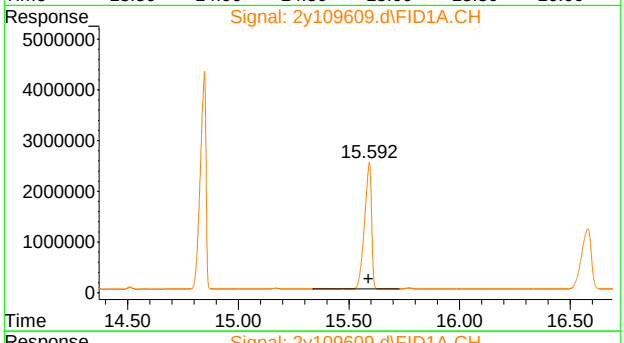
#13 C32

R.T.: 14.230 min
Delta R.T.: 0.000 min
Response: 103242799
Conc: 43.83 ppm



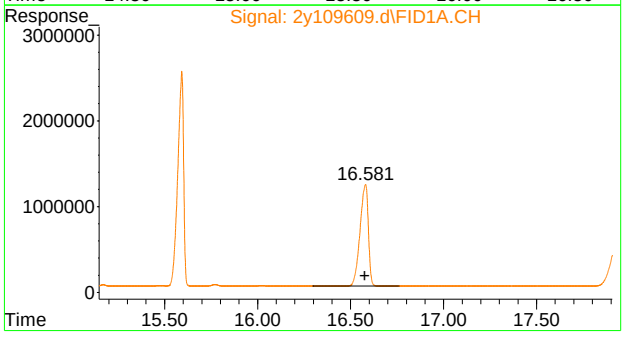
#14 C34

R.T.: 14.841 min
Delta R.T.: 0.000 min
Response: 76714176
Conc: 32.52 ppm



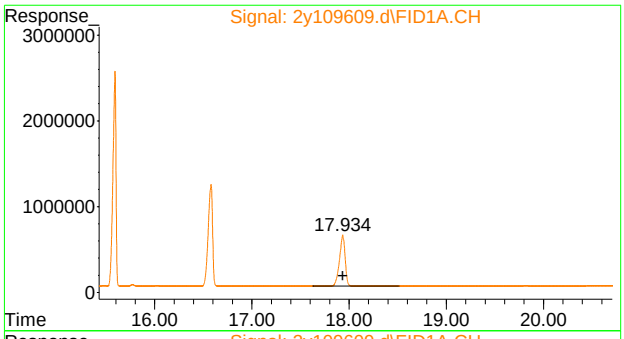
#15 C36

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 54701334
Conc: 24.77 ppm



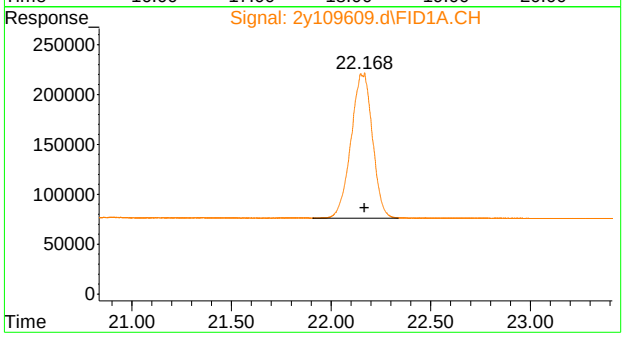
#16 C38

R.T.: 16.575 min
Delta R.T.: 0.000 min
Response: 36777133
Conc: 18.26 ppm



#17 C40

R.T.: 17.929 min
Delta R.T.: -0.005 min
Response: 23852025
Conc: 13.13 ppm



#18 C44

R.T.: 22.168 min
Delta R.T.: 0.000 min
Response: 10842077
Conc: 79.65 ppm m

9.5.3

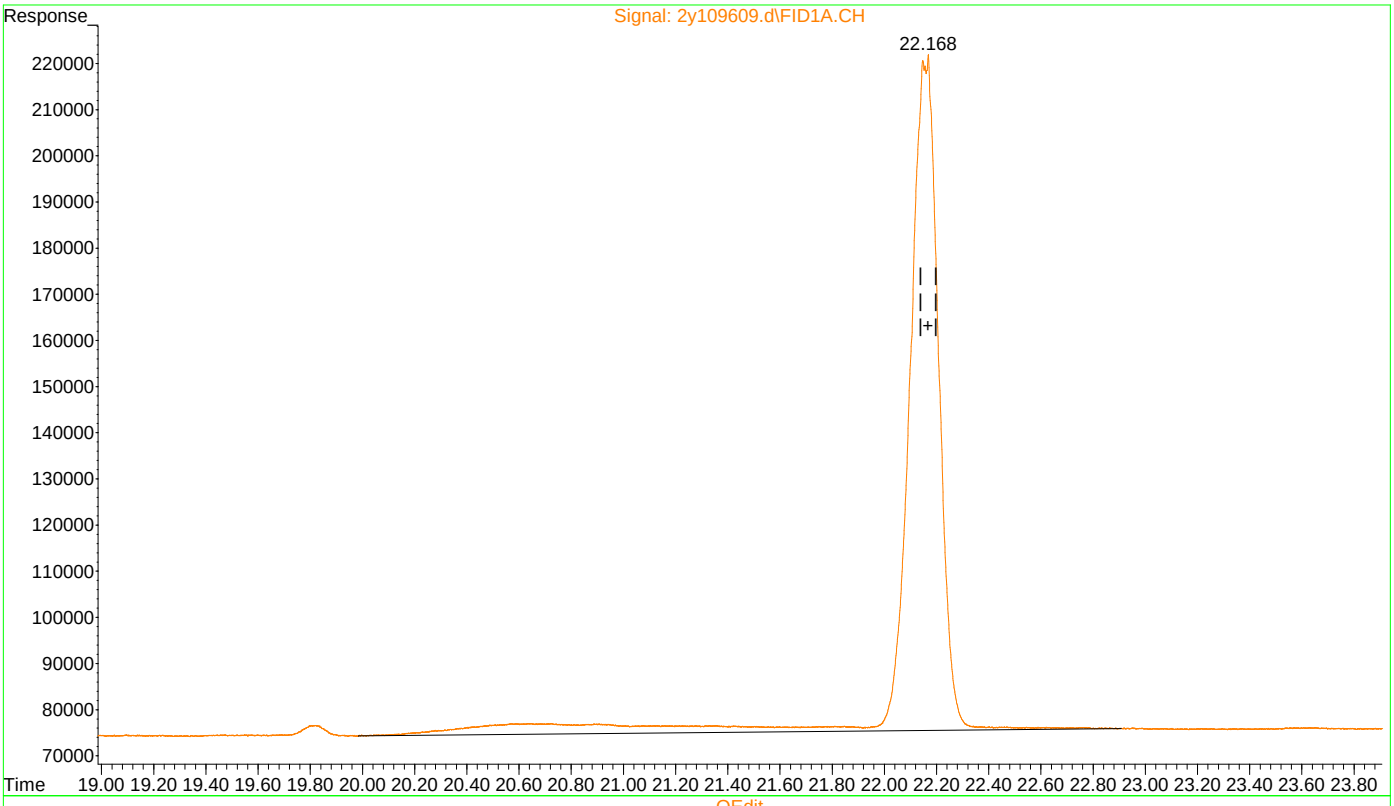
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109609.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 1:13 pm
Operator : thomasl
Sample : rt
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 15 06:09:45 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2y.m
Quant Title :
QLast Update : Mon Aug 15 06:09:37 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um



(18) C44 (T)

22.155min 92.690 ppm

response 12616966

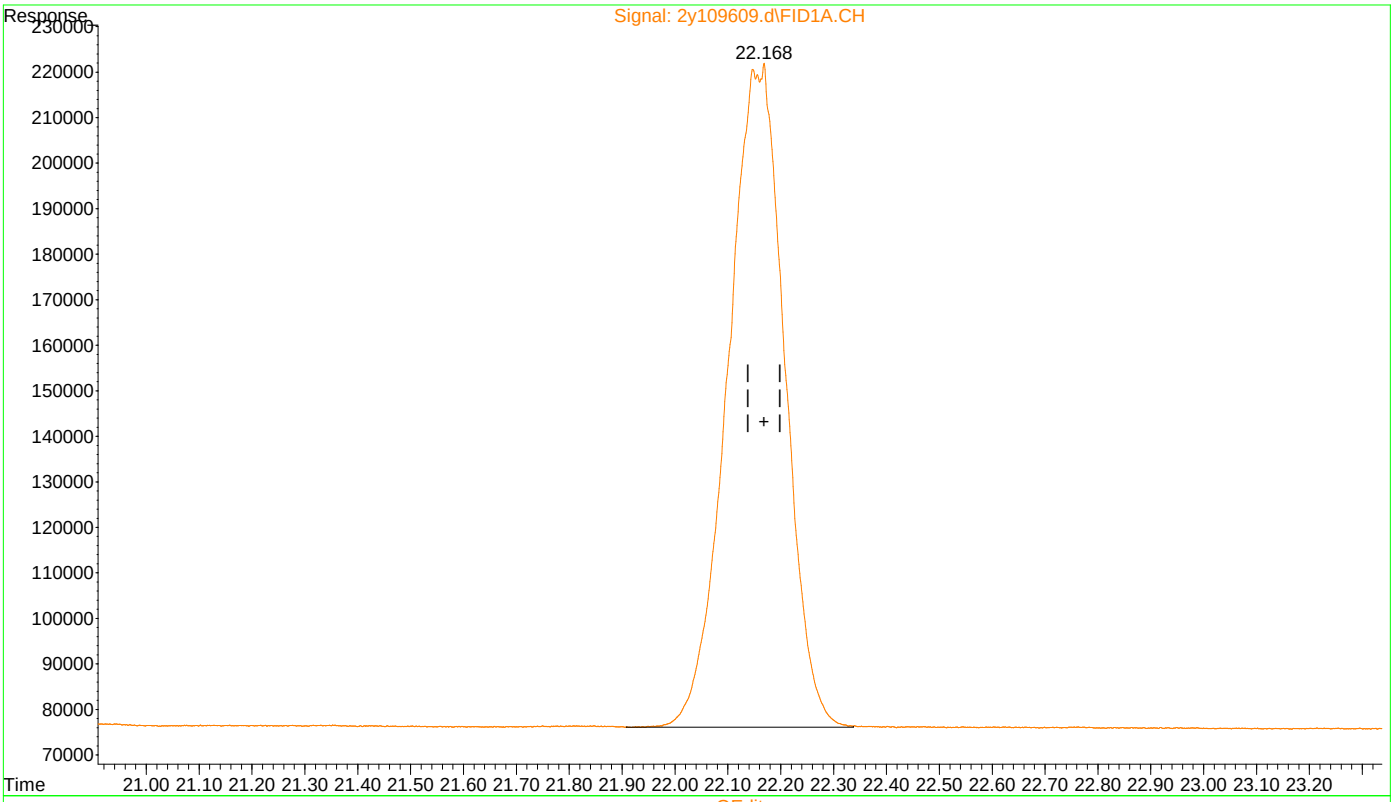
(+) = Expected Retention Time
rtwindow, 2y.m Mon Aug 15 06:10:04 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109609.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 1:13 pm
Operator : thomasl
Sample : rt
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 15 06:09:45 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2y.m
Quant Title :
QLast Update : Mon Aug 15 06:09:37 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um



(18) C44 (T)

22.168min 79.651 ppm m

response 10842077

(+) = Expected Retention Time
rtwindow, 2y.m Mon Aug 15 06:10:11 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87589.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 4:38 pm
Operator : thomasl
Sample : rt
Misc : op41078,g2z3372,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 11 03:30:24 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2z.m
Quant Title :
QLast Update : Thu Aug 11 03:30:12 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	C9	1.971	314999443	696.398 PPM
2) T	C10	3.533	340324856	197.157 PPM
3) T	C12	5.082	346246323	195.354 ppm
4) T	C14	6.455	353537232	198.625 ppm
5) T	C16	7.675	356674907	193.672 PPM
6) T	C18	8.775	361313432	192.968 PPM
7) T	C20	9.775	369538585	196.477 PPM
8) T	C22	10.635	363247168	190.503 PPM
9) T	C24	11.329	360133189	189.847 PPM
10) T	C26	12.015	358836978	187.648 PPM
11) T	C28	12.688	344485947	178.132 PPM
12) T	C30	13.336	318529908	163.070 PPM
13) T	C32	13.953	266596477	138.302 PPM
14) T	C34	14.534	194050809	101.449 PPM
15) T	C36	15.174	131192856	75.852 PPM
16) T	C38	16.009	81847011	56.362 PPM
17) T	C40	17.147	50112294	41.473 PPM
18) T	C44	20.854	21649924	55.149 PPM

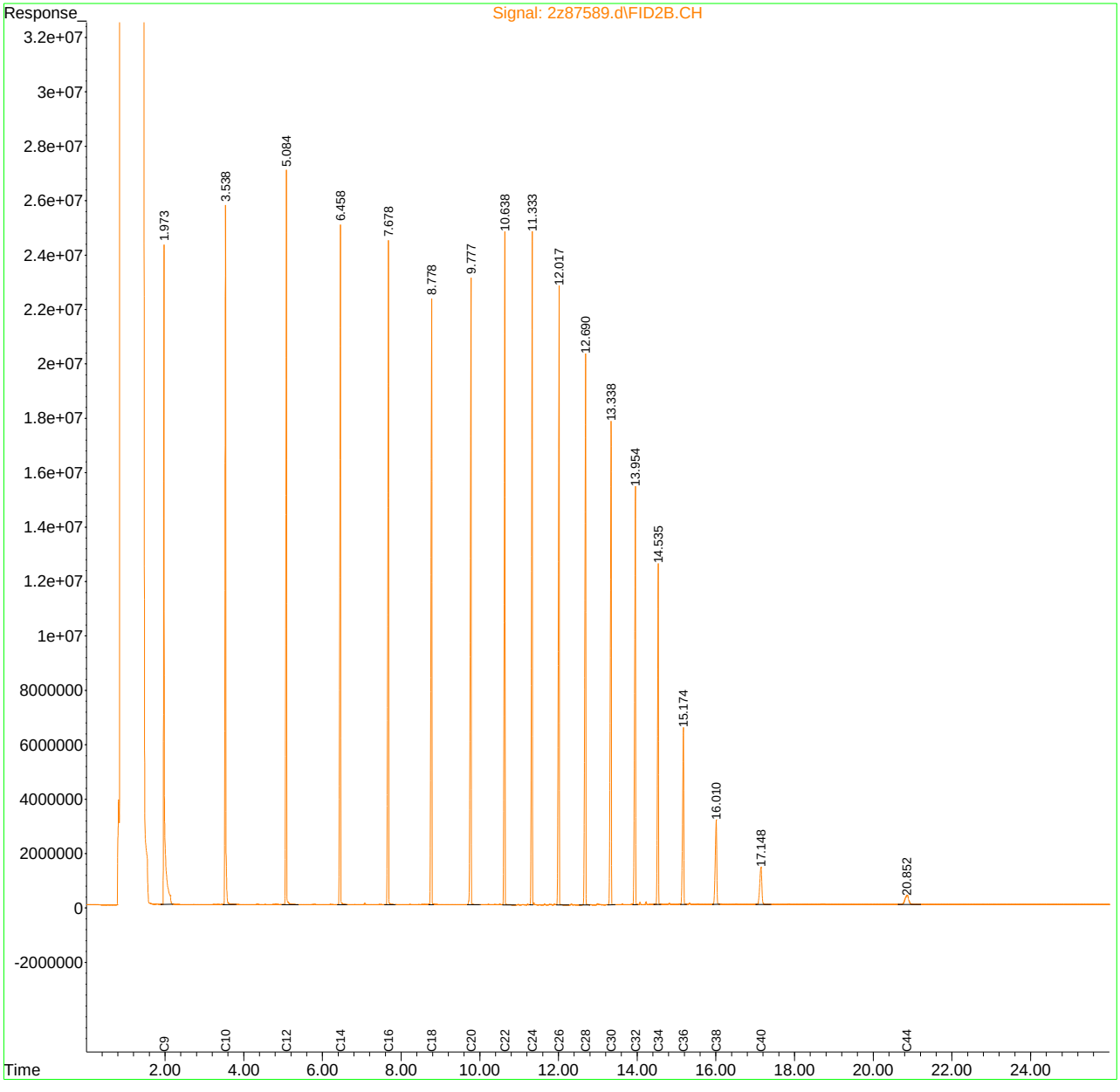
(f)=RT Delta > 1/2 Window (m)=manual int.

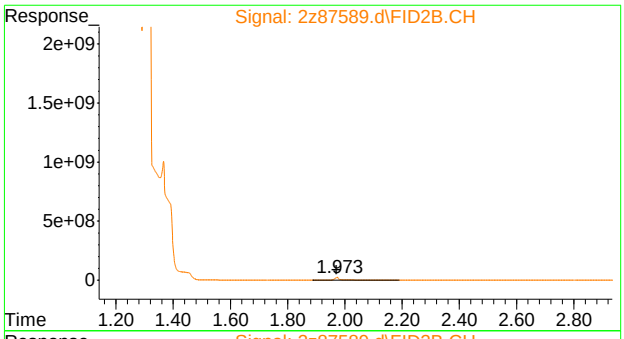
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87589.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 4:38 pm
Operator : thomasl
Sample : rt
Misc : op41078,g2z3372,10.0,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Aug 11 03:30:24 2022
Quant Method : C:\msdchem\1\methods\rtwindow, 2z.m
Quant Title :
QLast Update : Thu Aug 11 03:30:12 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

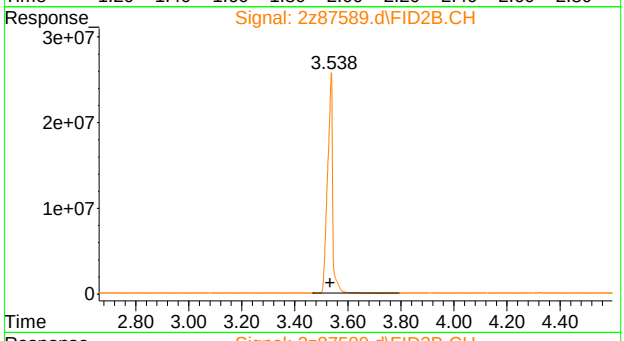
Volume Inj. : 1UL
Signal Phase : Rxi-5ms
Signal Info : 30mX0.25mmX0.25um





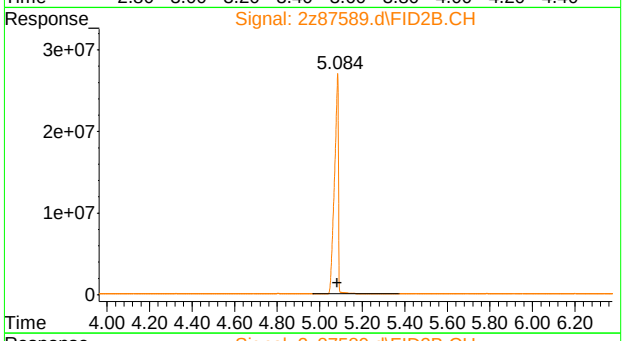
#1 C9

R.T.: 1.971 min
Delta R.T.: 0.000 min
Response: 314999443
Conc: 696.40 PPM



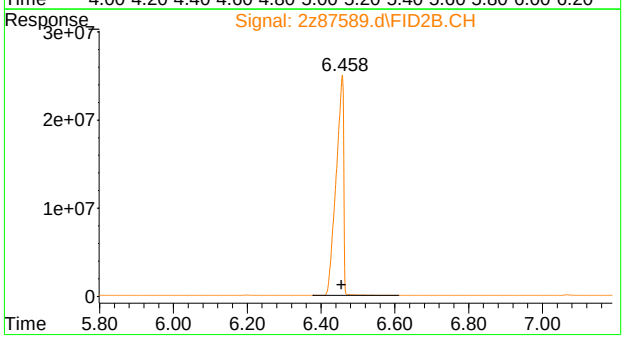
#2 C10

R.T.: 3.533 min
Delta R.T.: 0.000 min
Response: 340324856
Conc: 197.16 PPM



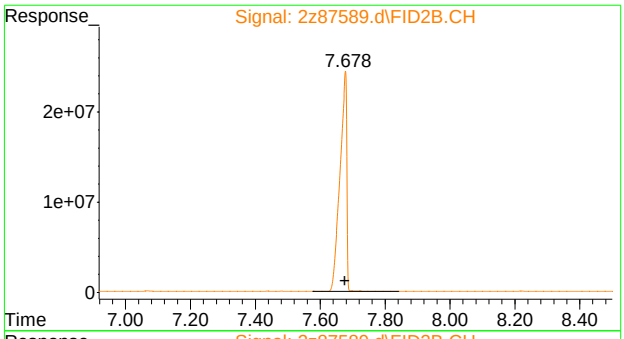
#3 C12

R.T.: 5.082 min
Delta R.T.: 0.000 min
Response: 346246323
Conc: 195.35 ppm



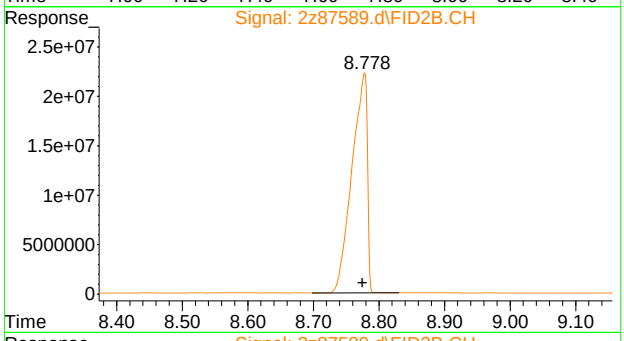
#4 C14

R.T.: 6.455 min
Delta R.T.: 0.000 min
Response: 353537232
Conc: 198.63 ppm



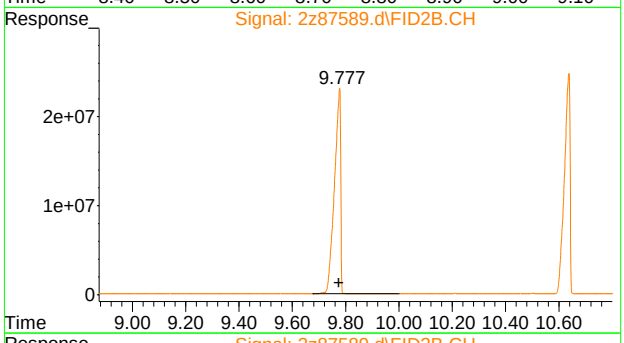
#5 C16

R.T.: 7.675 min
Delta R.T.: 0.000 min
Response: 356674907
Conc: 193.67 PPM



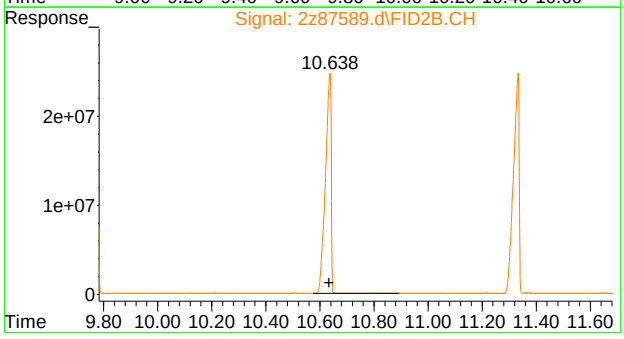
#6 C18

R.T.: 8.775 min
Delta R.T.: 0.000 min
Response: 361313432
Conc: 192.97 PPM



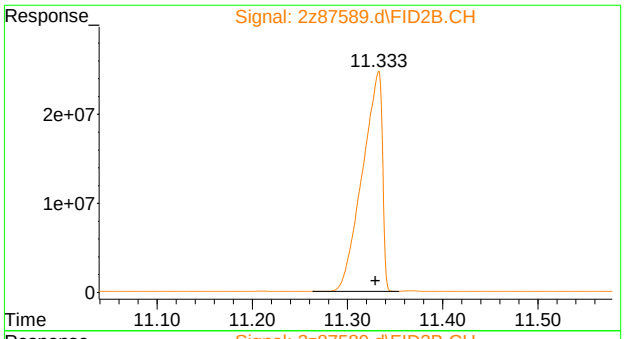
#7 C20

R.T.: 9.775 min
Delta R.T.: 0.000 min
Response: 369538585
Conc: 196.48 PPM



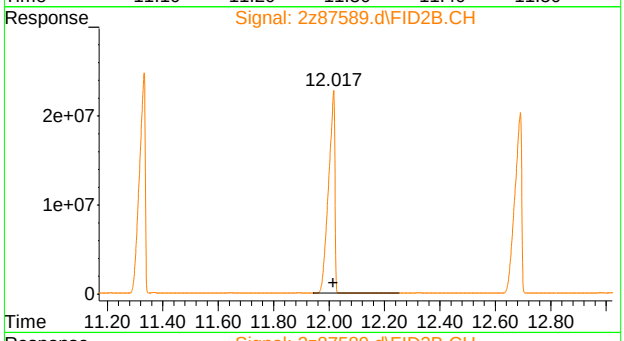
#8 C22

R.T.: 10.635 min
Delta R.T.: 0.000 min
Response: 363247168
Conc: 190.50 PPM



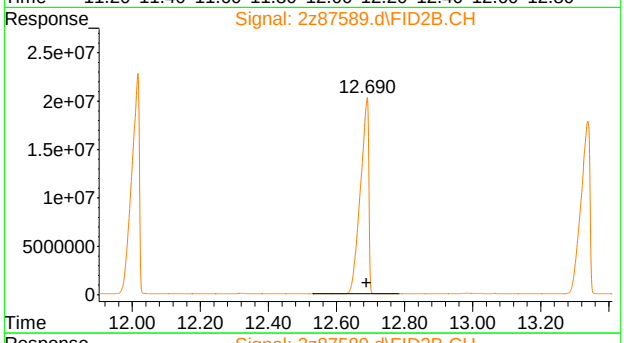
#9 C24

R.T.: 11.329 min
Delta R.T.: 0.000 min
Response: 360133189
Conc: 189.85 PPM



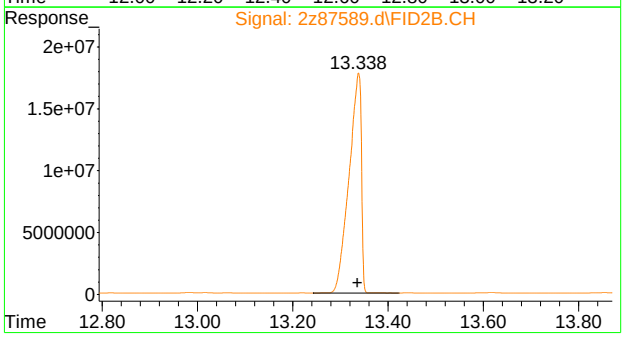
#10 C26

R.T.: 12.015 min
Delta R.T.: 0.000 min
Response: 358836978
Conc: 187.65 PPM



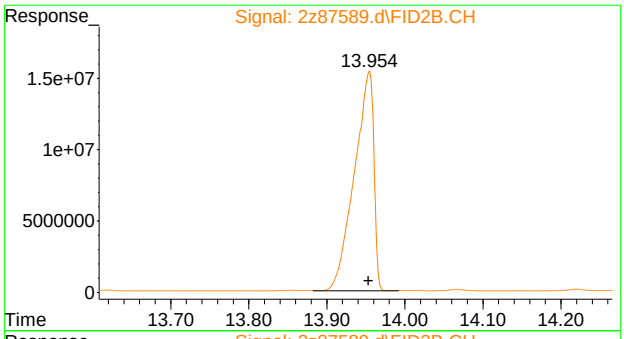
#11 C28

R.T.: 12.688 min
Delta R.T.: 0.000 min
Response: 344485947
Conc: 178.13 PPM



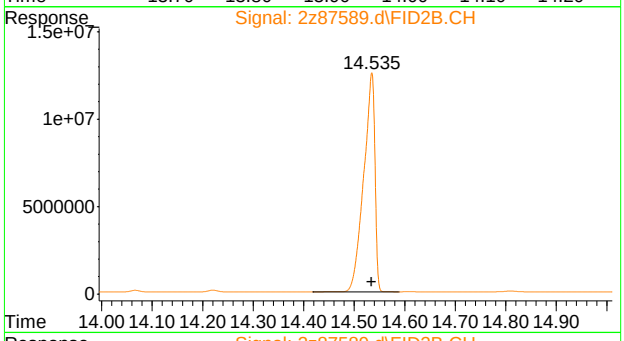
#12 C30

R.T.: 13.336 min
Delta R.T.: 0.000 min
Response: 318529908
Conc: 163.07 PPM



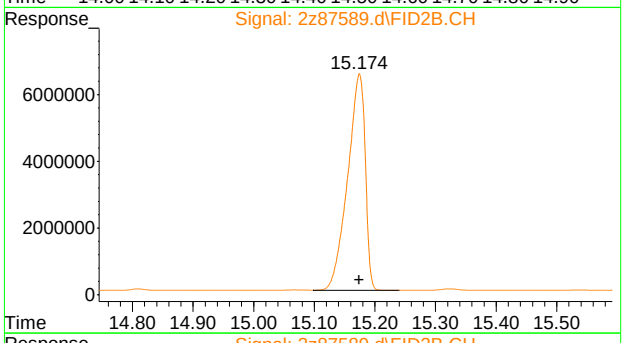
#13 C32

R.T.: 13.953 min
Delta R.T.: 0.000 min
Response: 266596477
Conc: 138.30 PPM



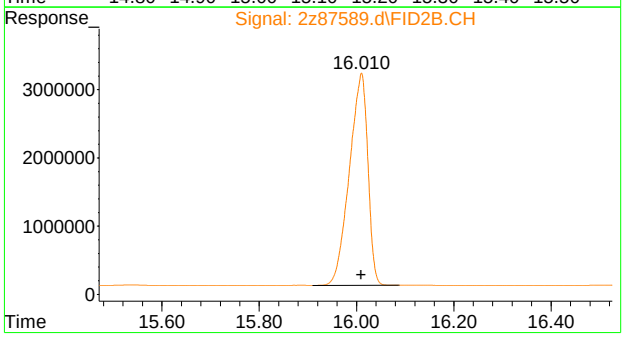
#14 C34

R.T.: 14.534 min
Delta R.T.: 0.000 min
Response: 194050809
Conc: 101.45 PPM



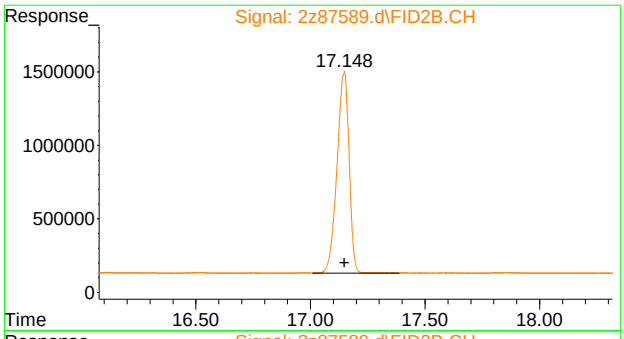
#15 C36

R.T.: 15.174 min
Delta R.T.: 0.000 min
Response: 131192856
Conc: 75.85 PPM



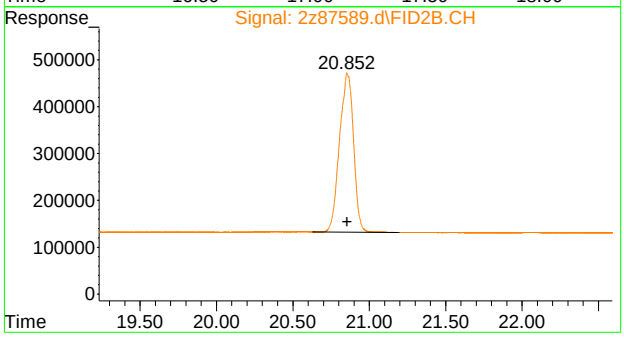
#16 C38

R.T.: 16.009 min
Delta R.T.: 0.000 min
Response: 81847011
Conc: 56.36 PPM



#17 C40

R.T.: 17.147 min
Delta R.T.: 0.000 min
Response: 50112294
Conc: 41.47 PPM



#18 C44

R.T.: 20.854 min
Delta R.T.: 0.000 min
Response: 21649924
Conc: 55.15 PPM

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
03/17/22 10:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107726.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 5:27 pm
Operator : thomasl
Sample : ic4195-25
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:40:58 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.595	564977	0.642	PPM	m
Spiked Amount 50.000		Recovery =	1.28%		
10) S 5a-Androstane	10.291	387237	0.481	PPM	
Spiked Amount 50.000		Recovery =	0.96%		
Target Compounds					
1) H TPH-DRO	8.430	16863760	26.277	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

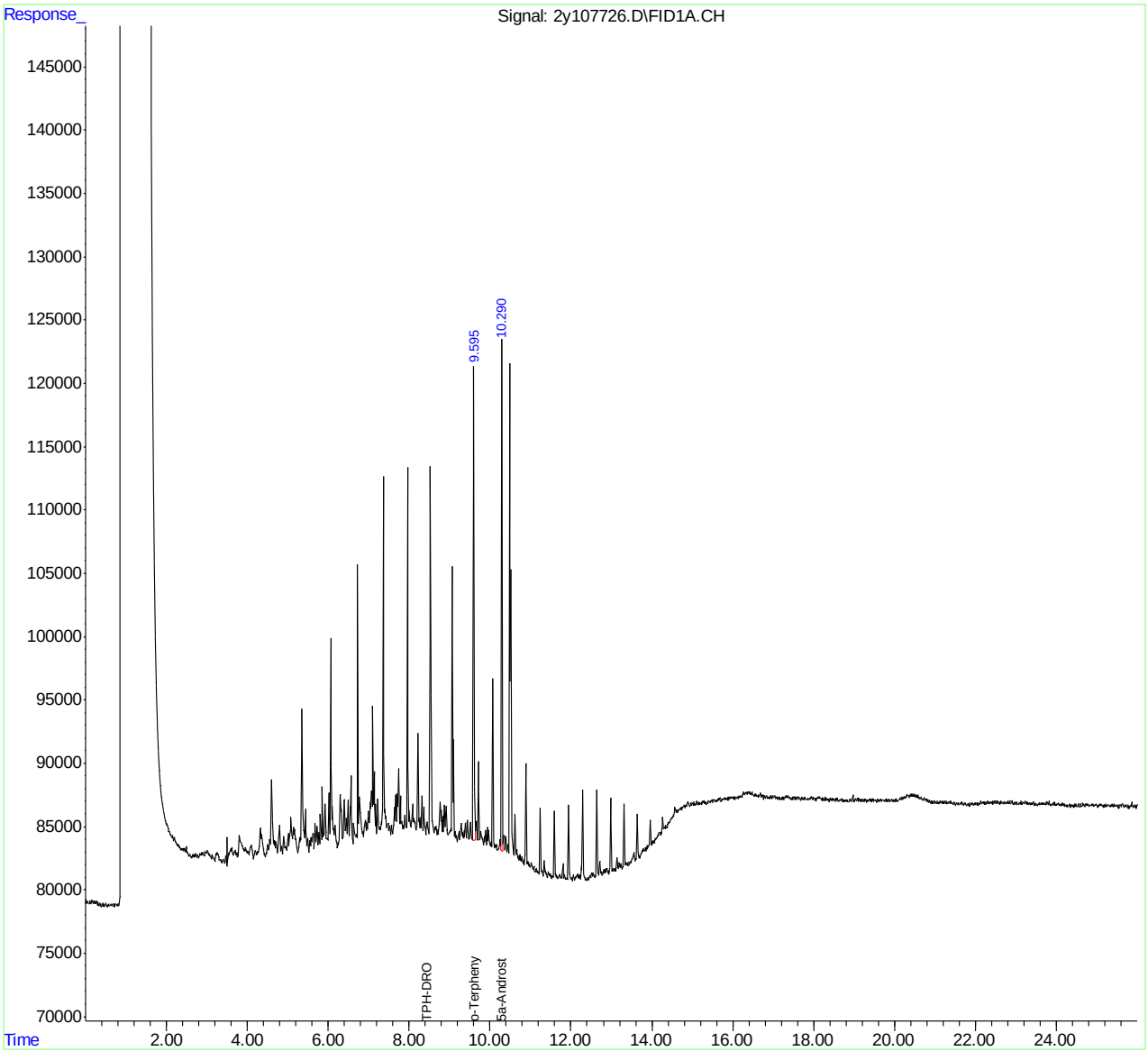
9.6.1
9

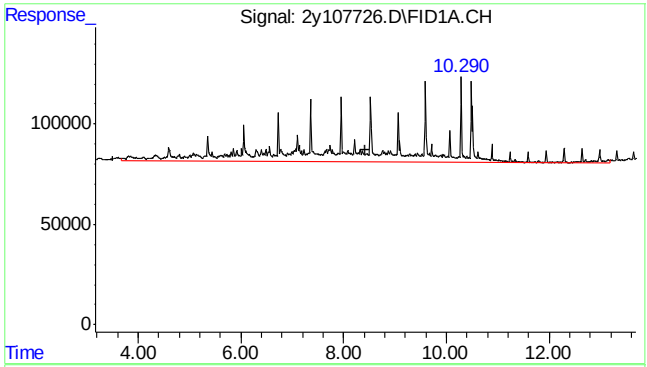
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107726.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 5:27 pm
Operator : thomasl
Sample : ic4195-25
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:40:58 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

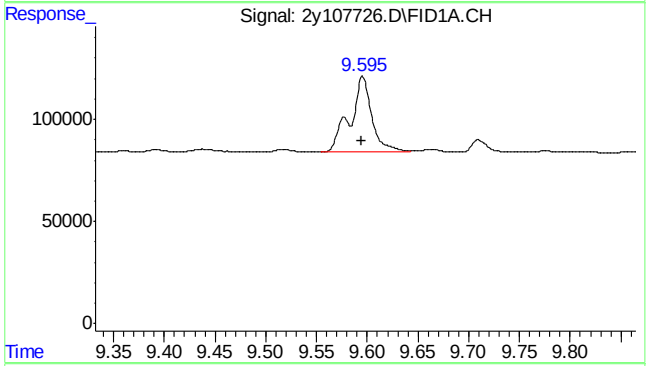
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





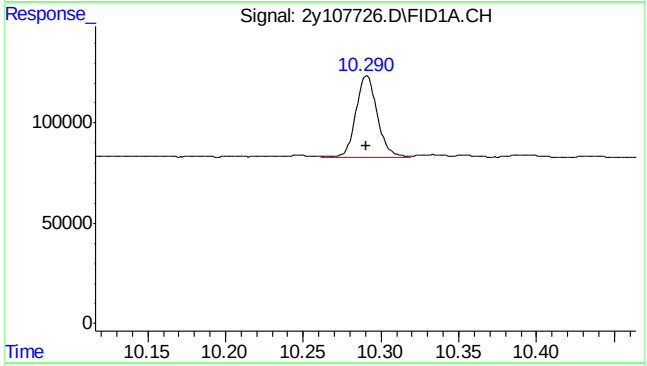
#1 TPH-DRO

```
      R.T.:    8.430 min
Delta R.T.:    0.000 min
  Response:  16863760
      Conc:  26.28 PPM m
```



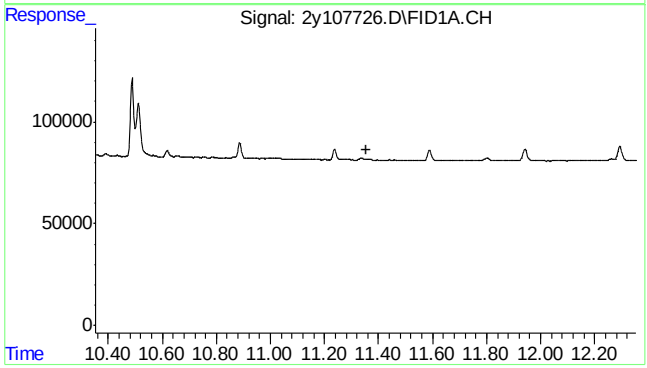
#9 o-Terphenyl

```
      R.T.:    9.595 min
Delta R.T.:    0.000 min
  Response:    564977
      Conc:   0.64 PPM m
```



#10 5a-Androstane

```
      R.T.:   10.291 min
Delta R.T.:    0.000 min
  Response:    387237
      Conc:   0.48 PPM
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:   N.D.
```

Manual Integration Approval Summary

Sample Number:	G2Y4195-IC4195	**Method:**	SW846 8015D
Lab FileID:	2Y107726.D	**Analyst approved:**	03/16/22 17:15 Thomas Lally
Injection Time:	03/15/22 17:27	**Supervisor approved:**	03/17/22 10:02 Gwendolyn Burns

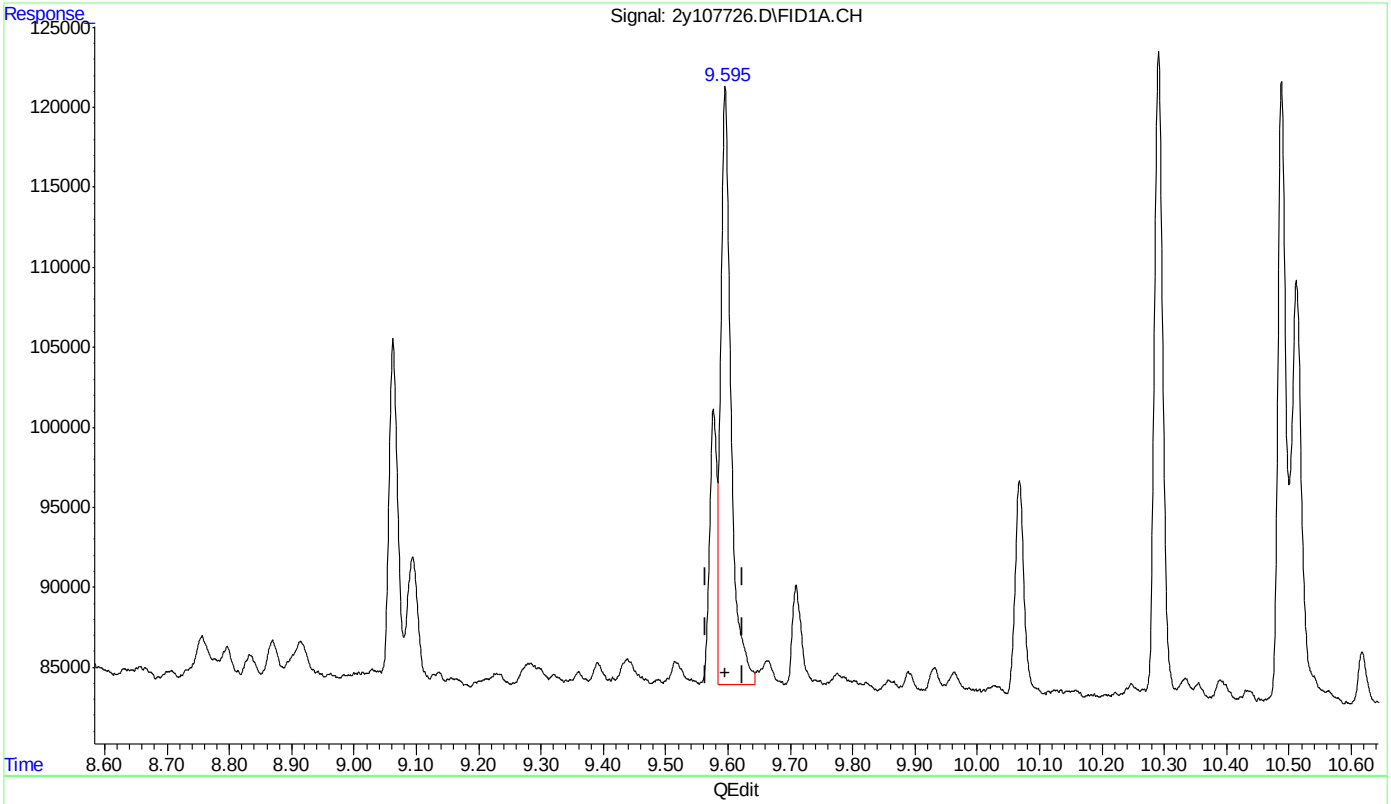
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.59	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107726.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 5:27 pm
Operator : thomasl
Sample : ic4195-25
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:06:16 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.596min 0.486PPM

response 428004

(+) = Expected Retention Time

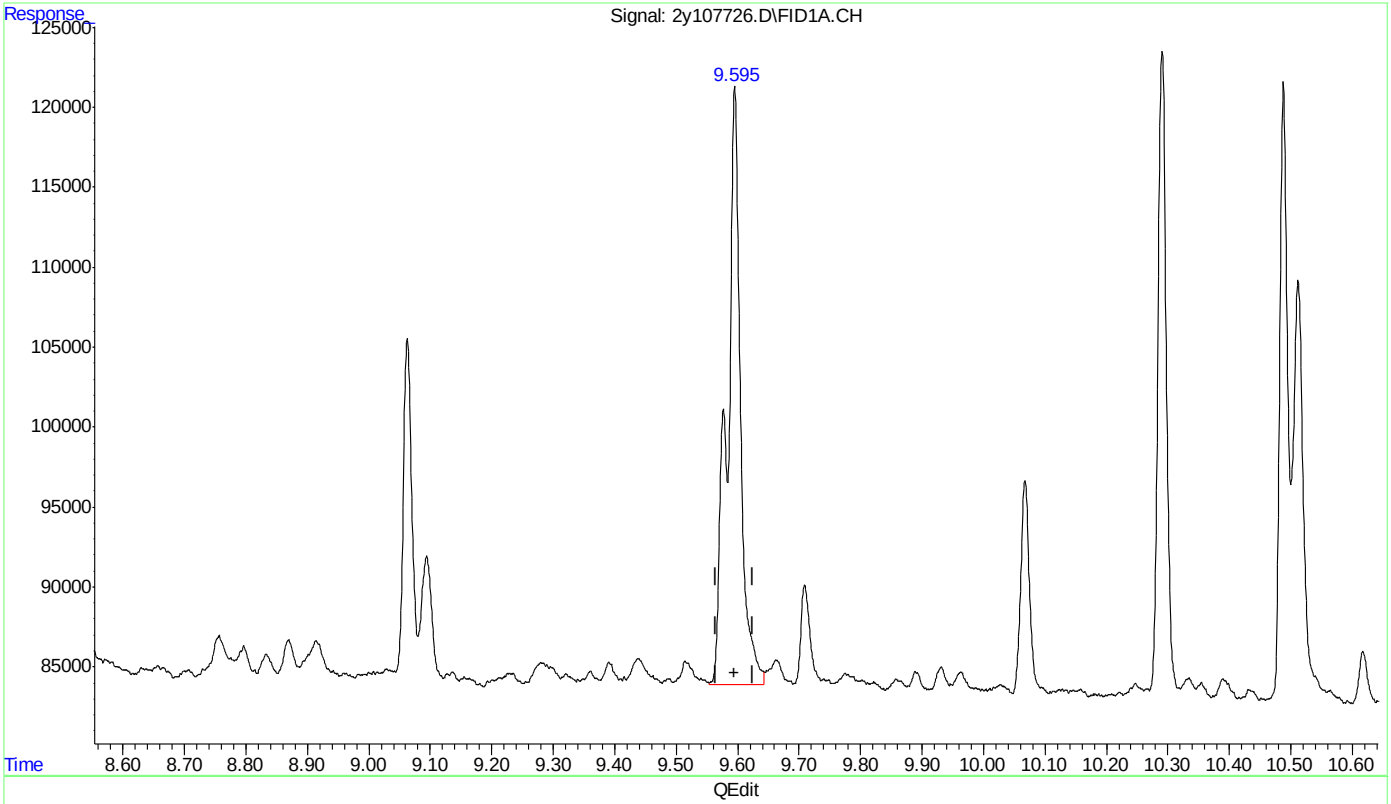
DRO2Y4195.M Wed Mar 16 12:40:50 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107726.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 5:27 pm
Operator : thomasl
Sample : ic4195-25
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:06:16 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.595min 0.642PPM m

response 564977

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 03/17/22 10:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107727.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:01 pm
Operator : thomasl
Sample : ic4195-50
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:41:20 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.593	1113925	1.266	PPM	m
Spiked Amount 50.000		Recovery =	2.53%		
10) S 5a-Androstane	10.289	749882	0.931	PPM	m
Spiked Amount 50.000		Recovery =	1.86%		
Target Compounds					
1) H TPH-DRO	8.430	30423347	47.405	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.2

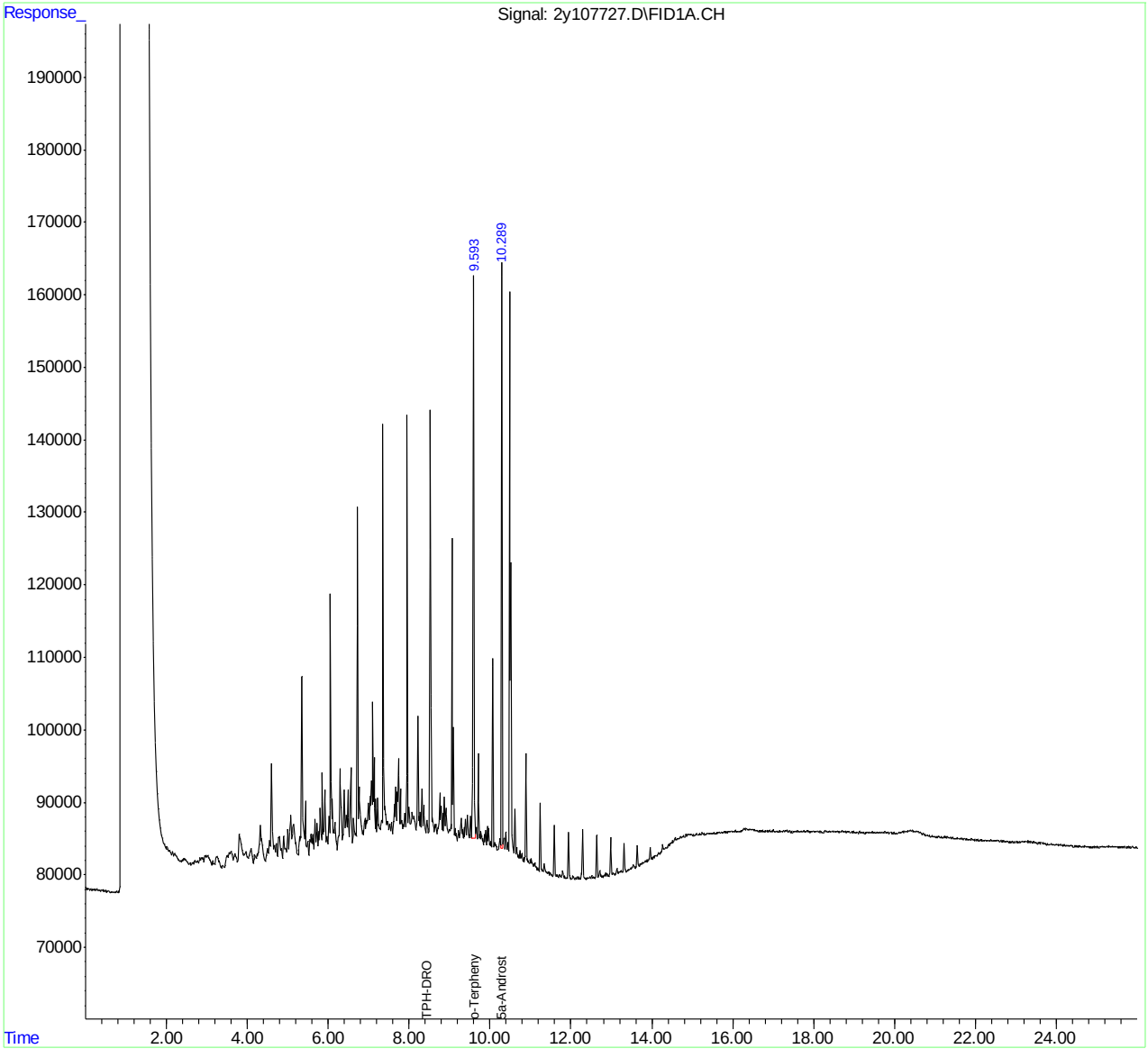
9

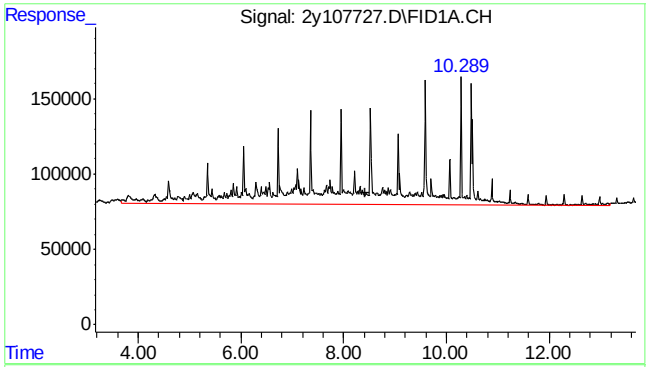
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107727.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:01 pm
Operator : thomasl
Sample : ic4195-50
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:41:20 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

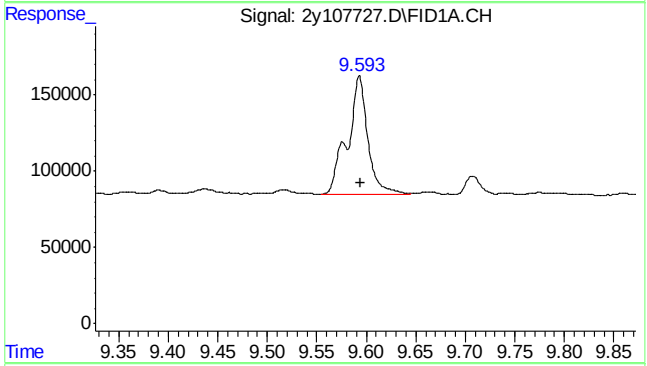
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





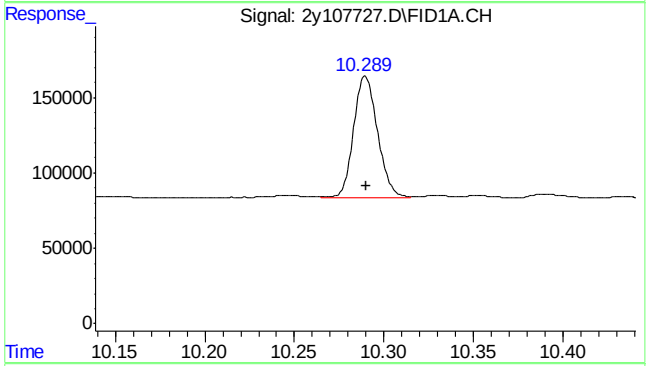
#1 TPH-DRO

```
      R.T.:    8.430 min
Delta R.T.:    0.000 min
  Response:  30423347
      Conc:  47.41 PPM m
```



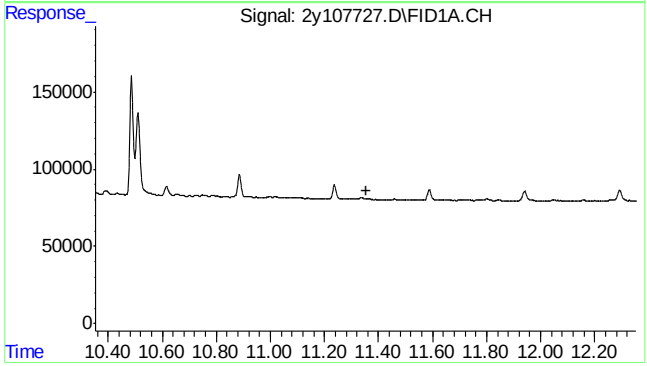
#9 o-Terphenyl

```
      R.T.:    9.593 min
Delta R.T.:   -0.002 min
  Response:   1113925
      Conc:   1.27 PPM m
```



#10 5a-Androstane

```
      R.T.:   10.289 min
Delta R.T.:   -0.001 min
  Response:    749882
      Conc:   0.93 PPM m
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:   N.D.
```

9.6.2

9

Manual Integration Approval Summary

Sample Number:	G2Y4195-IC4195	**Method:**	SW846 8015D
Lab FileID:	2Y107727.D	**Analyst approved:**	03/16/22 17:15 Thomas Lally
Injection Time:	03/15/22 18:01	**Supervisor approved:**	03/17/22 10:02 Gwendolyn Burns

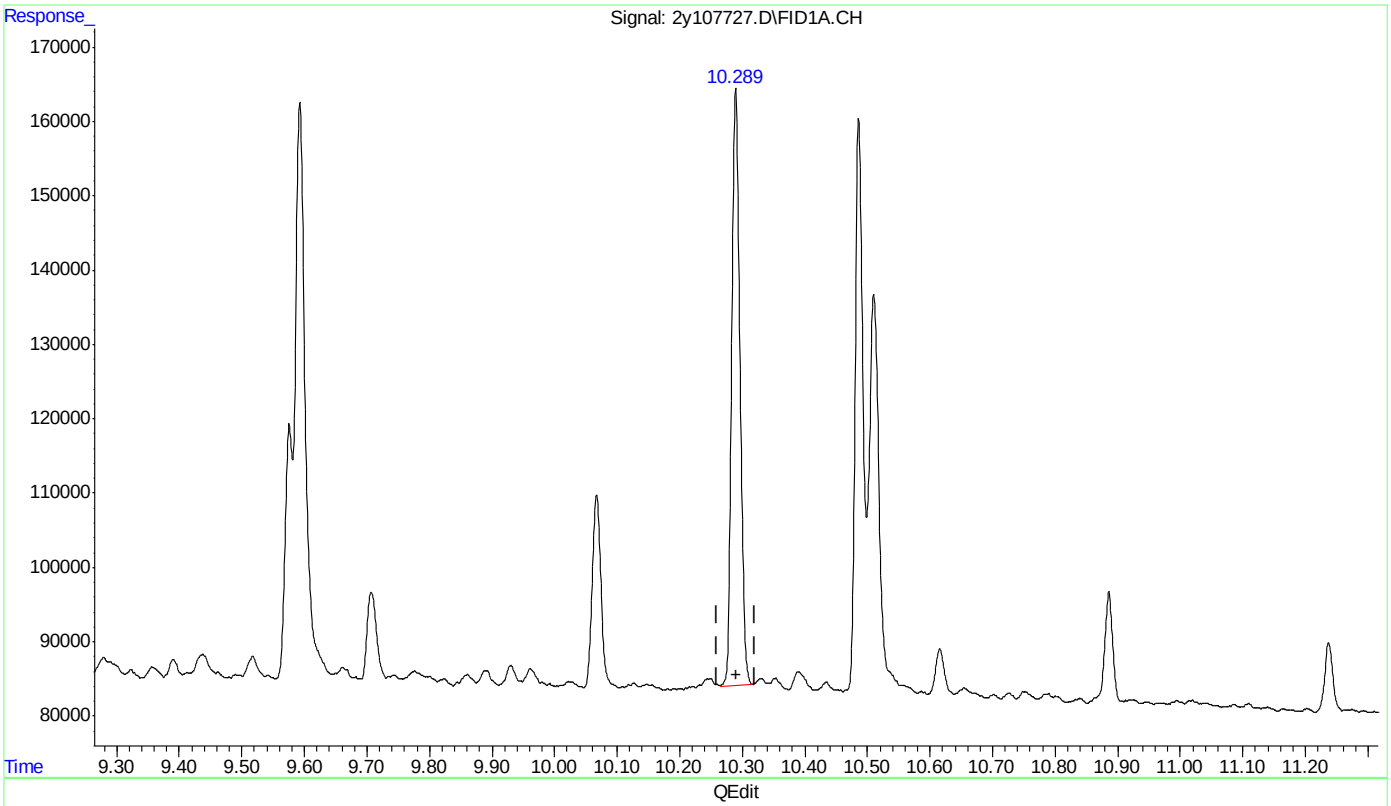
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.59	Poor instrument integration
5a-Androstane	438-22-2	1	10.29	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107727.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:01 pm
Operator : thomasl
Sample : ic4195-50
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:07:22 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.290min 0.914PPM

response 735792

(+) = Expected Retention Time

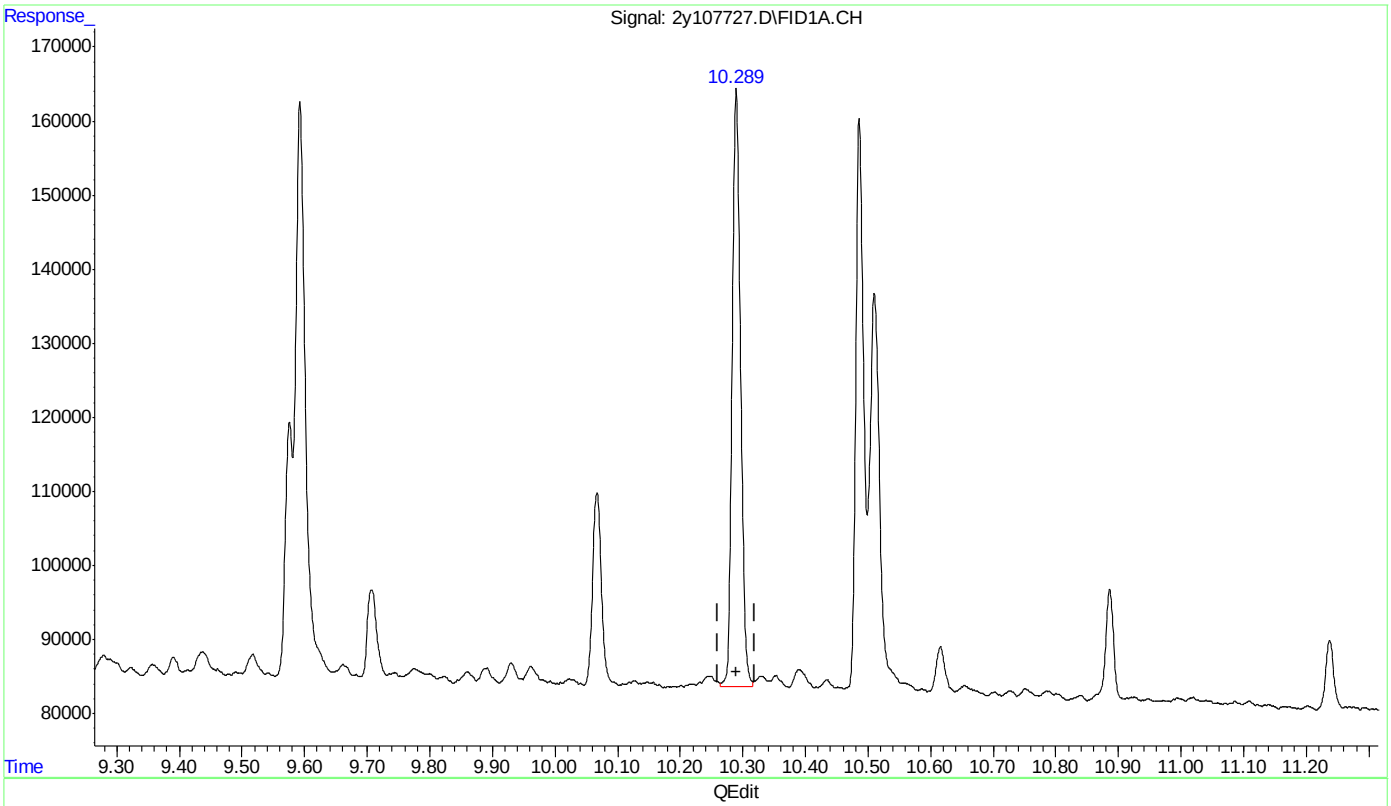
DRO2Y4195.M Wed Mar 16 11:07:33 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107727.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:01 pm
Operator : thomasl
Sample : ic4195-50
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:07:22 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.289min 0.931PPM m

response 749882

(+) = Expected Retention Time

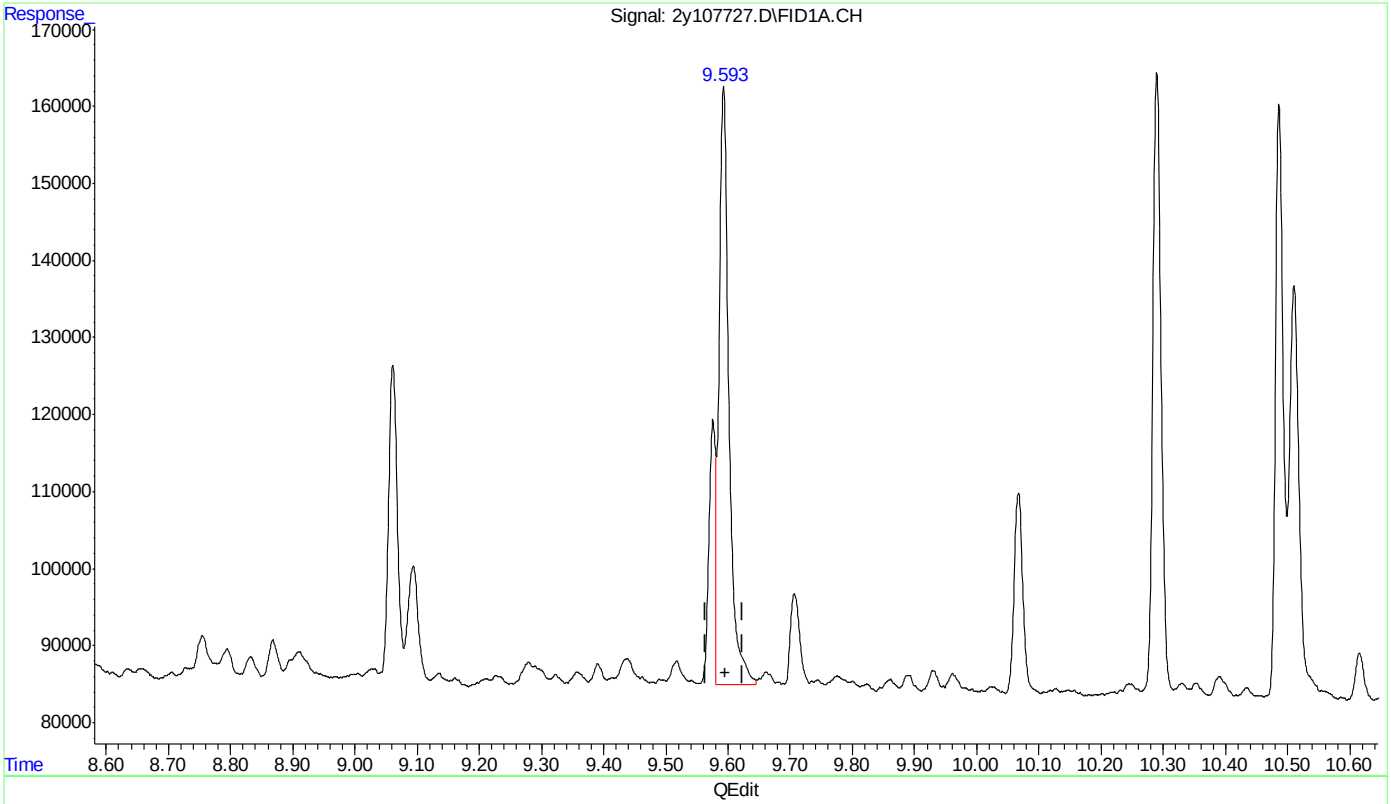
DRO2Y4195.M Wed Mar 16 11:07:44 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107727.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:01 pm
Operator : thomasl
Sample : ic4195-50
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:07:40 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.593min 0.985PPM

response 866752

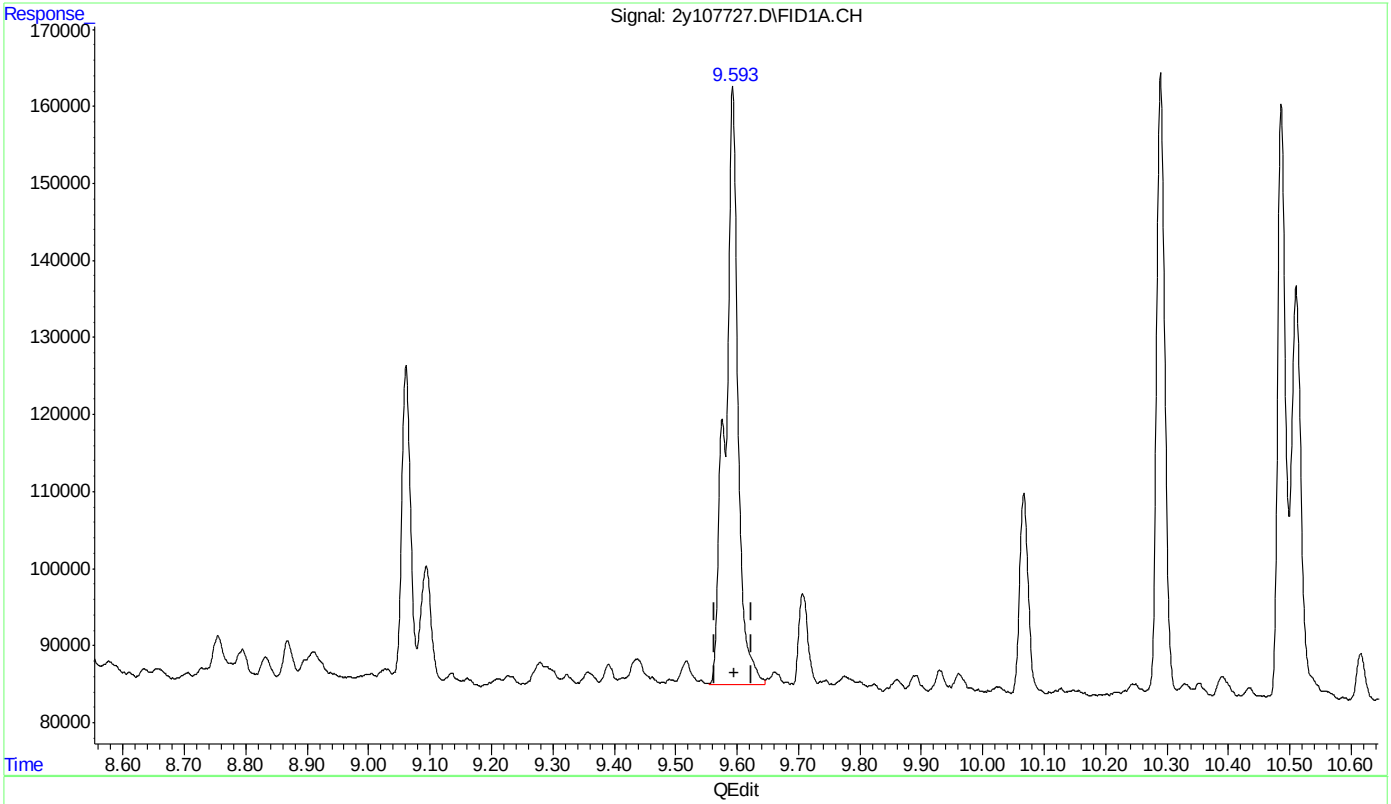
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107727.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:01 pm
Operator : thomasl
Sample : ic4195-50
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:07:40 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.593min 1.266PPM m

response 1113925

(+) = Expected Retention Time

DRO2Y4195.M Wed Mar 16 12:41:23 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 03/17/22 10:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107728.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:35 pm
Operator : thomasl
Sample : ic4195-100
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:41:43 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.591	2176137	2.473	PPM	m
Spiked Amount 50.000		Recovery =	4.95%		
10) S 5a-Androstane	10.289	1470868	1.827	PPM	
Spiked Amount 50.000		Recovery =	3.65%		
Target Compounds					
1) H TPH-DRO	8.430	60322267	93.994	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.3

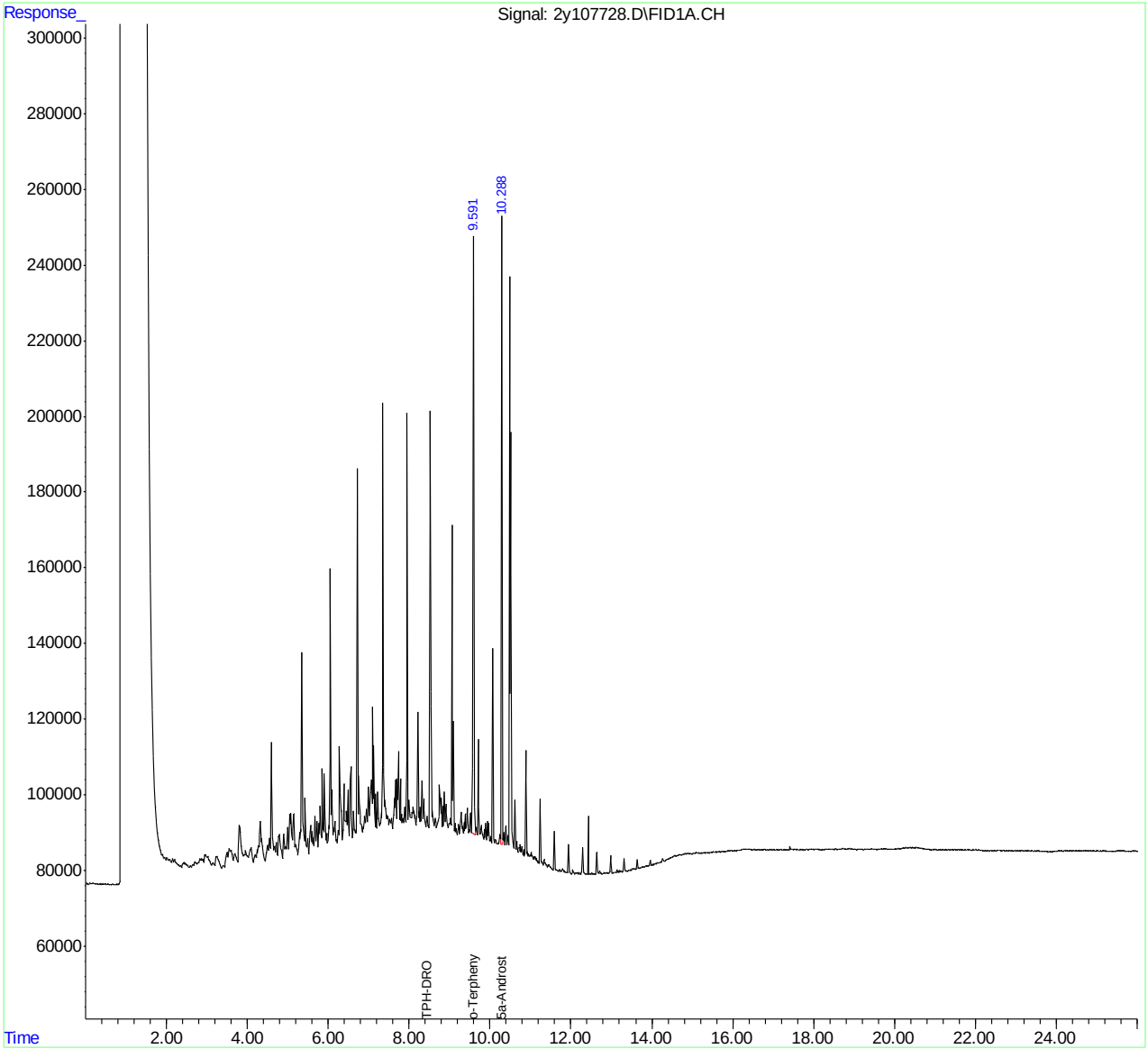
6

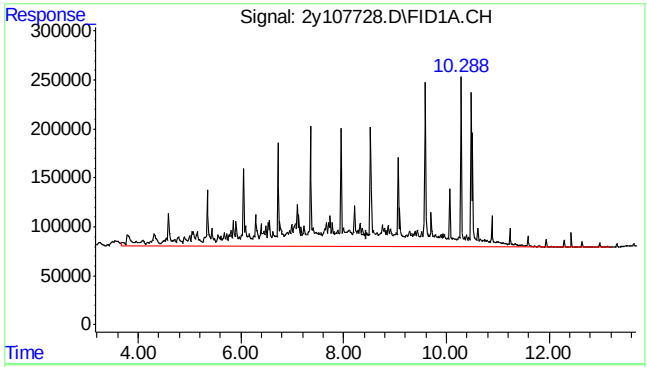
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107728.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:35 pm
Operator : thomasl
Sample : ic4195-100
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:41:43 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

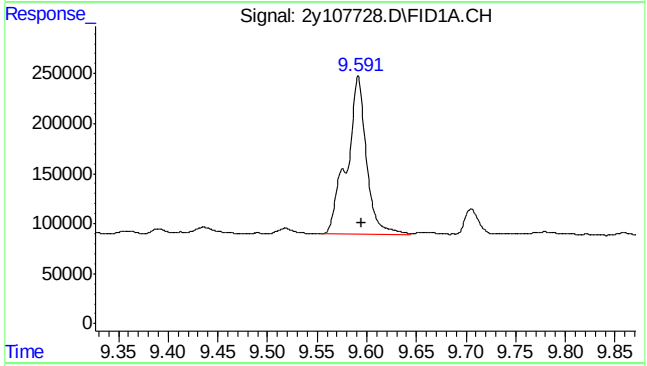
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





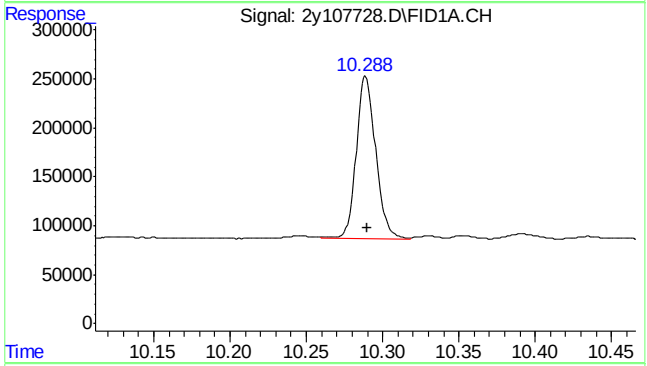
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 60322267
Conc: 93.99 PPM m



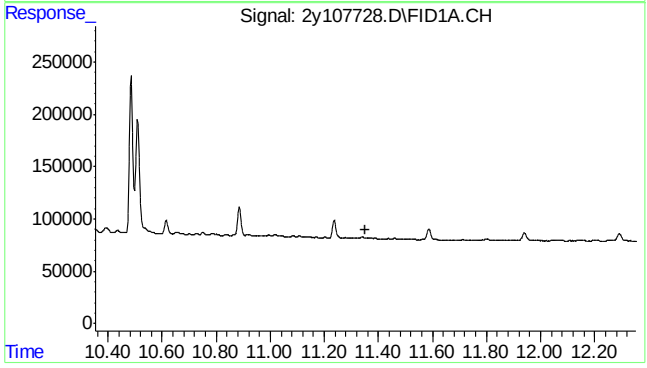
#9 o-Terphenyl

R.T.: 9.591 min
Delta R.T.: -0.004 min
Response: 2176137
Conc: 2.47 PPM m



#10 5a-Androstane

R.T.: 10.289 min
Delta R.T.: -0.002 min
Response: 1470868
Conc: 1.83 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Manual Integration Approval Summary

Sample Number:	G2Y4195-IC4195	**Method:**	SW846 8015D
Lab FileID:	2Y107728.D	**Analyst approved:**	03/16/22 17:15 Thomas Lally
Injection Time:	03/15/22 18:35	**Supervisor approved:**	03/17/22 10:02 Gwendolyn Burns

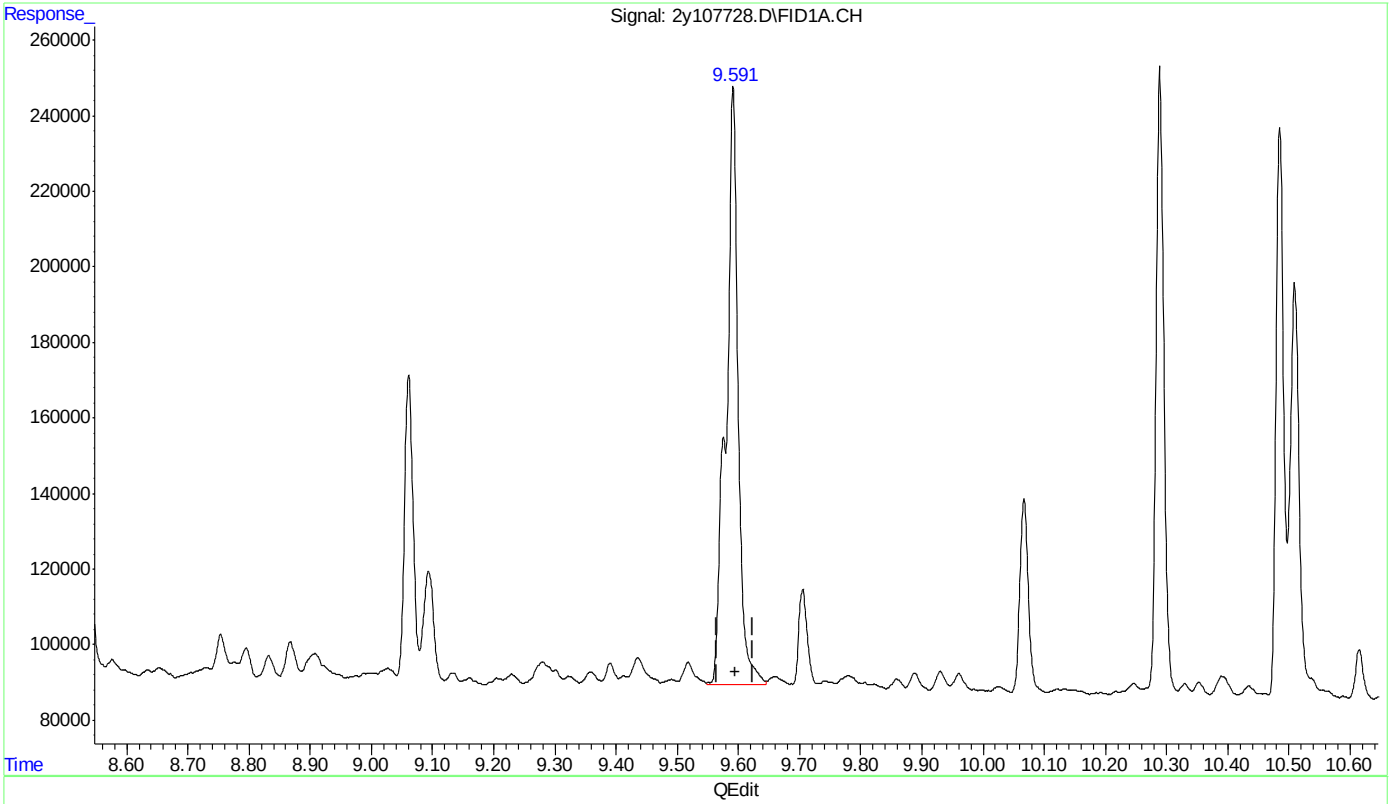
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.59	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107728.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:35 pm
Operator : thomasl
Sample : ic4195-100
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:08:20 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.591min 2.481PPM

response 2183224

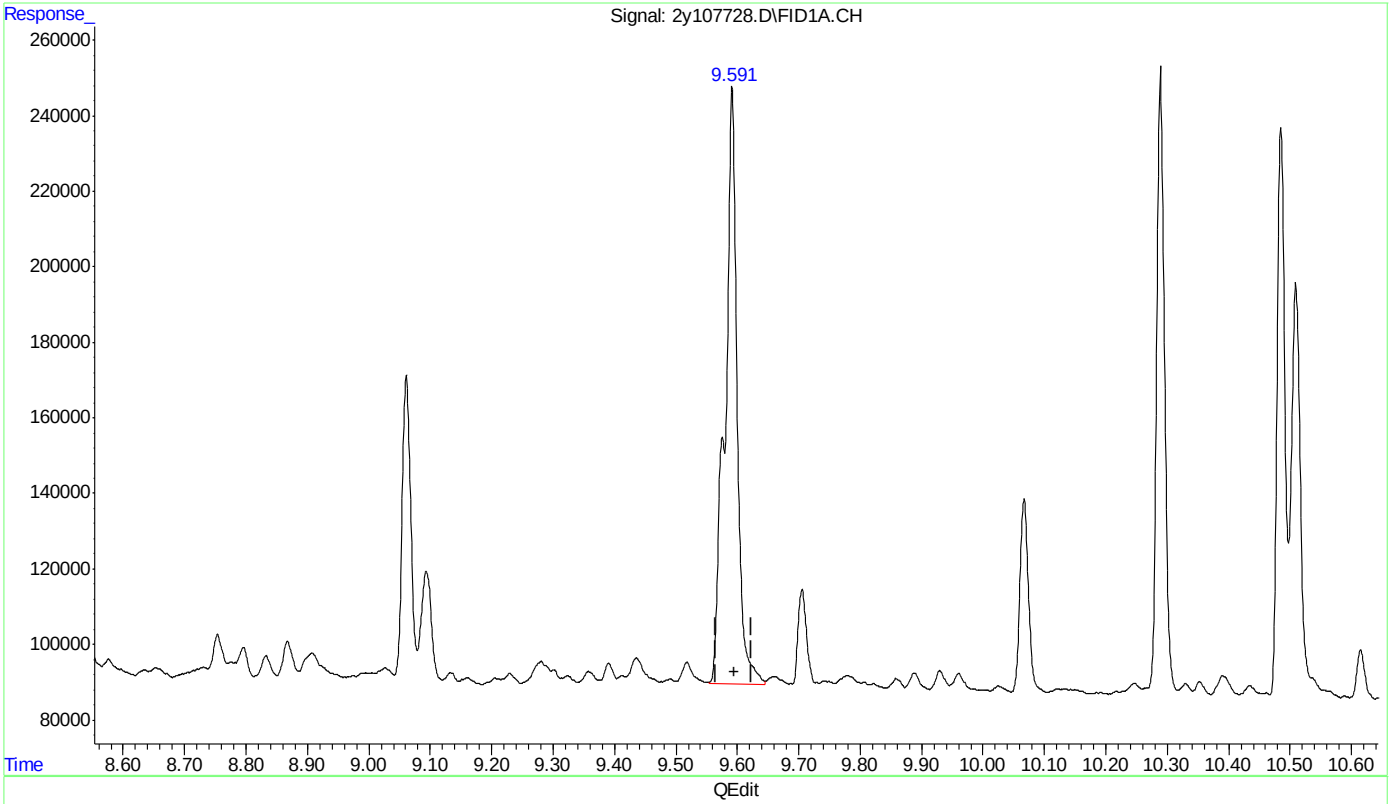
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107728.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 6:35 pm
Operator : thomasl
Sample : ic4195-100
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:08:36 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.591min 2.473PPM m

response 2176137

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107729.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 7:08 pm
Operator : thomasl
Sample : ic4195-250
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:10:00 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.589	5466254	6.212 PPM
Spiked Amount 50.000		Recovery =	12.42%
10) S 5a-Androstane	10.288	3678806	4.569 PPM
Spiked Amount 50.000		Recovery =	9.14%
Target Compounds			
1) H TPH-DRO	8.430	153040796	238.467 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.4

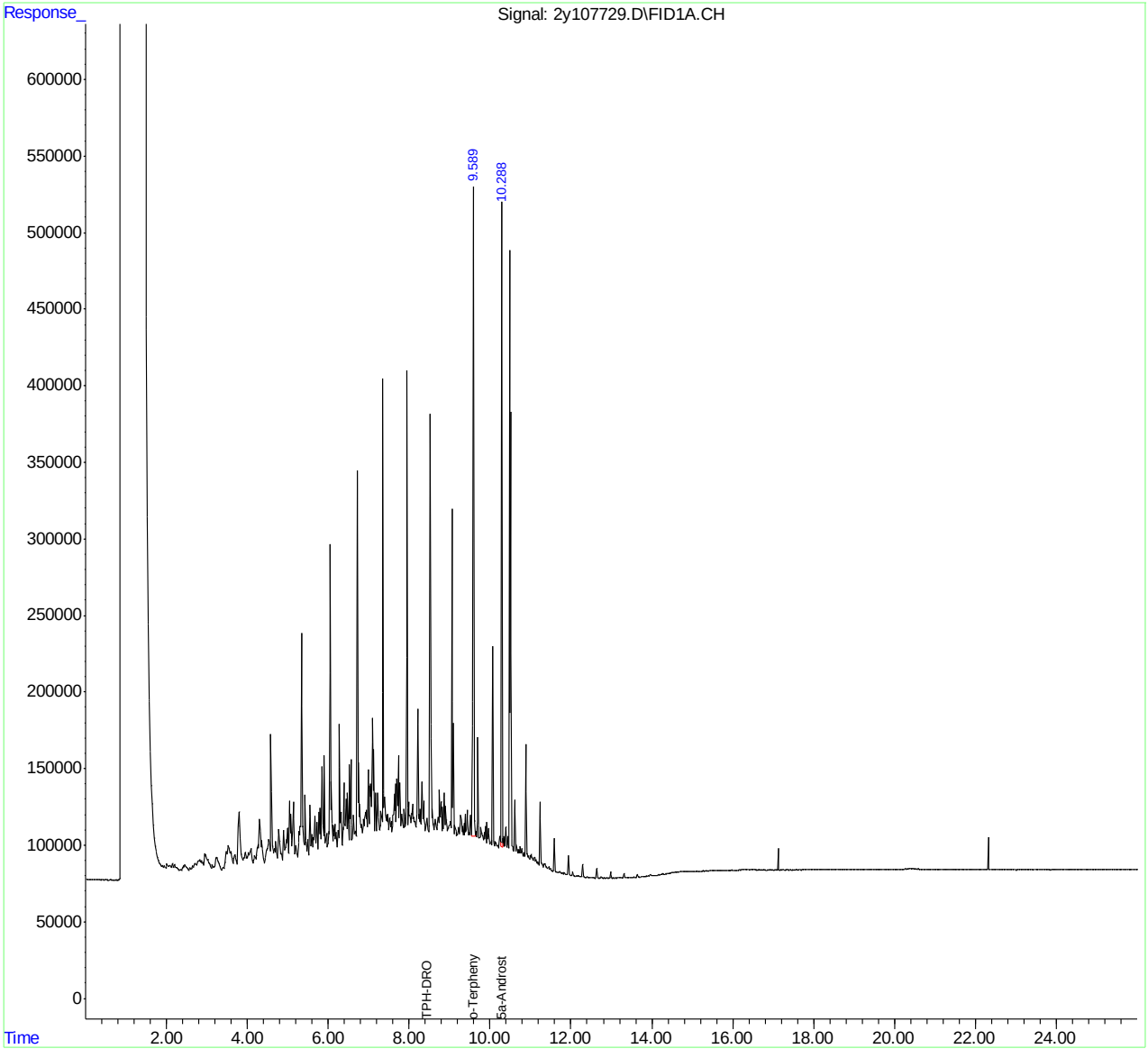
9

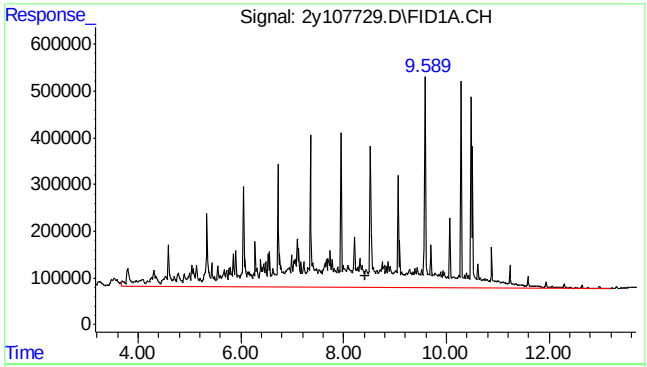
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107729.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 7:08 pm
Operator : thomasl
Sample : ic4195-250
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:10:00 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

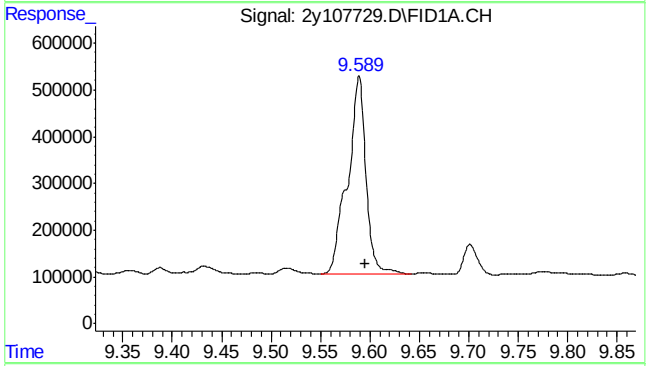
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





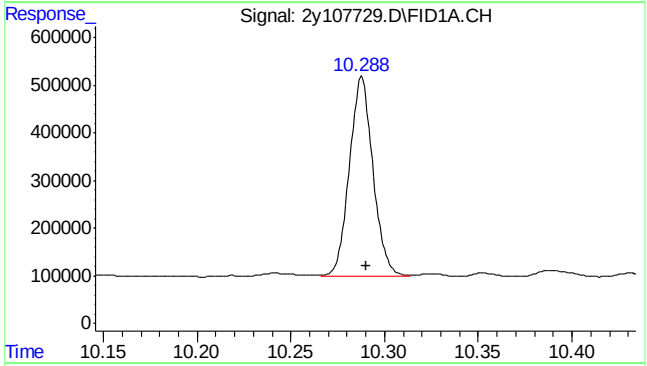
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 153040796
Conc: 238.47 PPM m



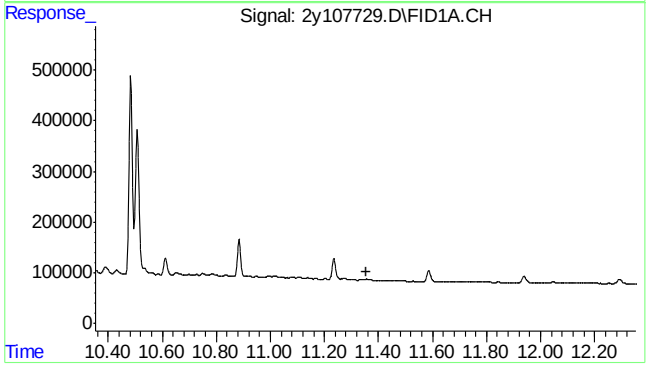
#9 o-Terphenyl

R.T.: 9.589 min
Delta R.T.: -0.006 min
Response: 5466254
Conc: 6.21 PPM



#10 5a-Androstane

R.T.: 10.288 min
Delta R.T.: -0.002 min
Response: 3678806
Conc: 4.57 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107730.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 7:42 pm
Operator : thomasl
Sample : ic4195-500
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:11:04 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.590	11269870	12.808 PPM
Spiked Amount 50.000		Recovery =	25.62%
10) S 5a-Androstane	10.289	7500020	9.315 PPM
Spiked Amount 50.000		Recovery =	18.63%
Target Compounds			
1) H TPH-DRO	8.430	322461407	502.457 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.5

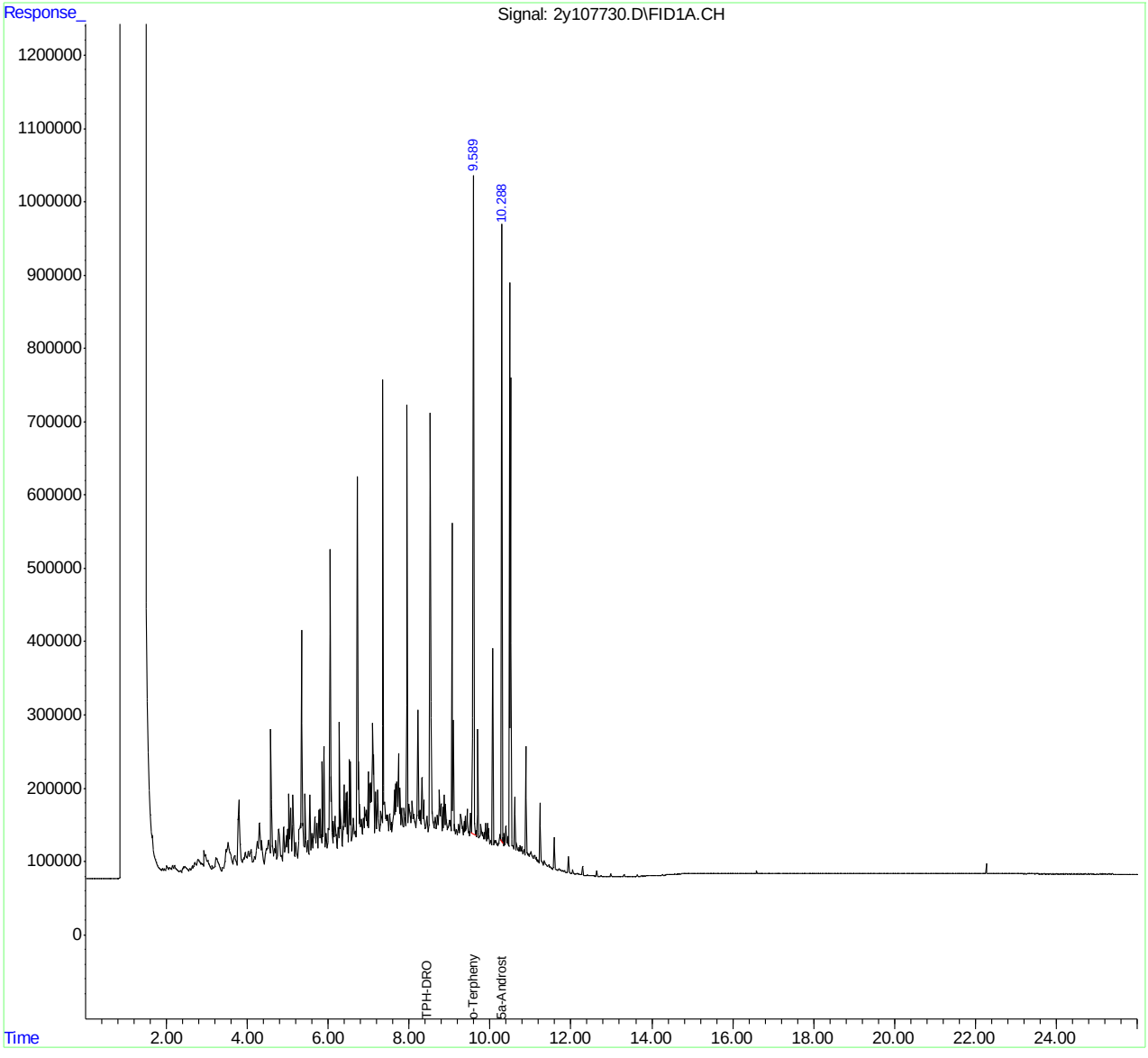
9

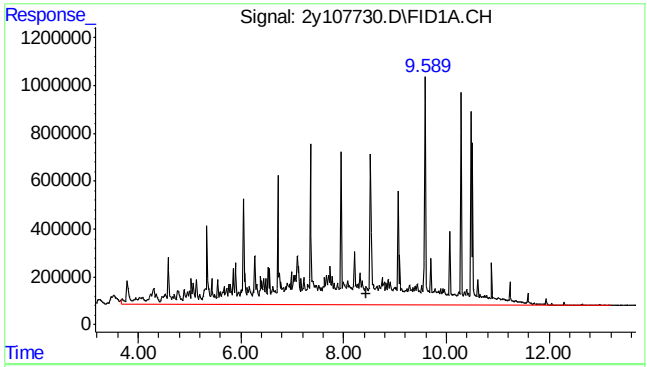
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107730.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 7:42 pm
Operator : thomasl
Sample : ic4195-500
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:11:04 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

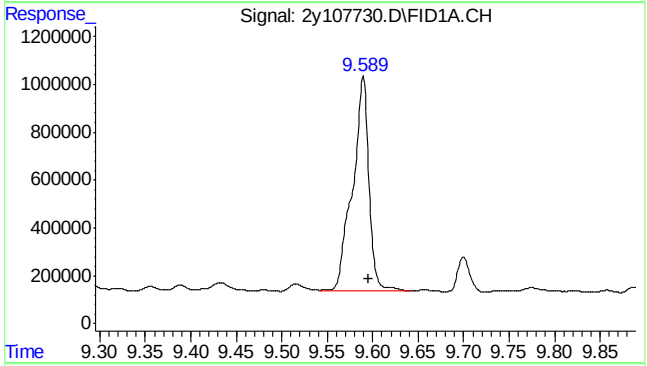
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





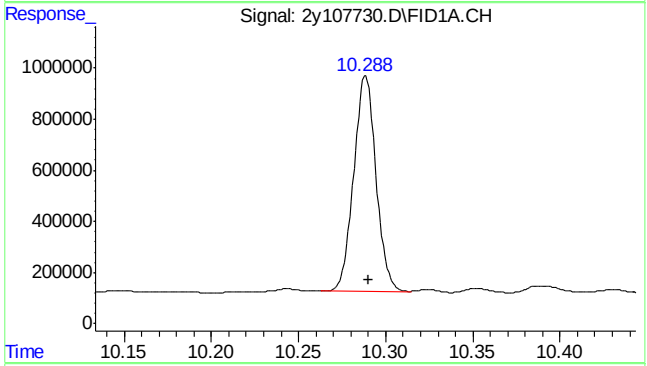
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 322461407
Conc: 502.46 PPM m



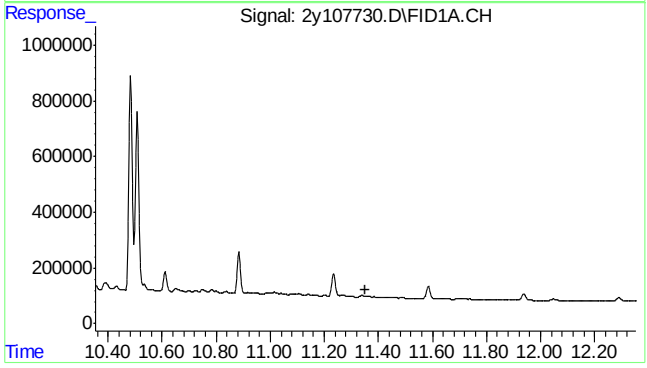
#9 o-Terphenyl

R.T.: 9.590 min
Delta R.T.: -0.005 min
Response: 11269870
Conc: 12.81 PPM



#10 5a-Androstane

R.T.: 10.289 min
Delta R.T.: -0.002 min
Response: 7500020
Conc: 9.32 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107731.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 8:16 pm
Operator : thomasl
Sample : icc4195-1000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:11:27 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.591	21545080	24.485 PPM
Spiked Amount 50.000		Recovery =	48.97%
10) S 5a-Androstane	10.291	14825150	18.413 PPM
Spiked Amount 50.000		Recovery =	36.83%
Target Compounds			
1) H TPH-DRO	8.430	623241122	971.130 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

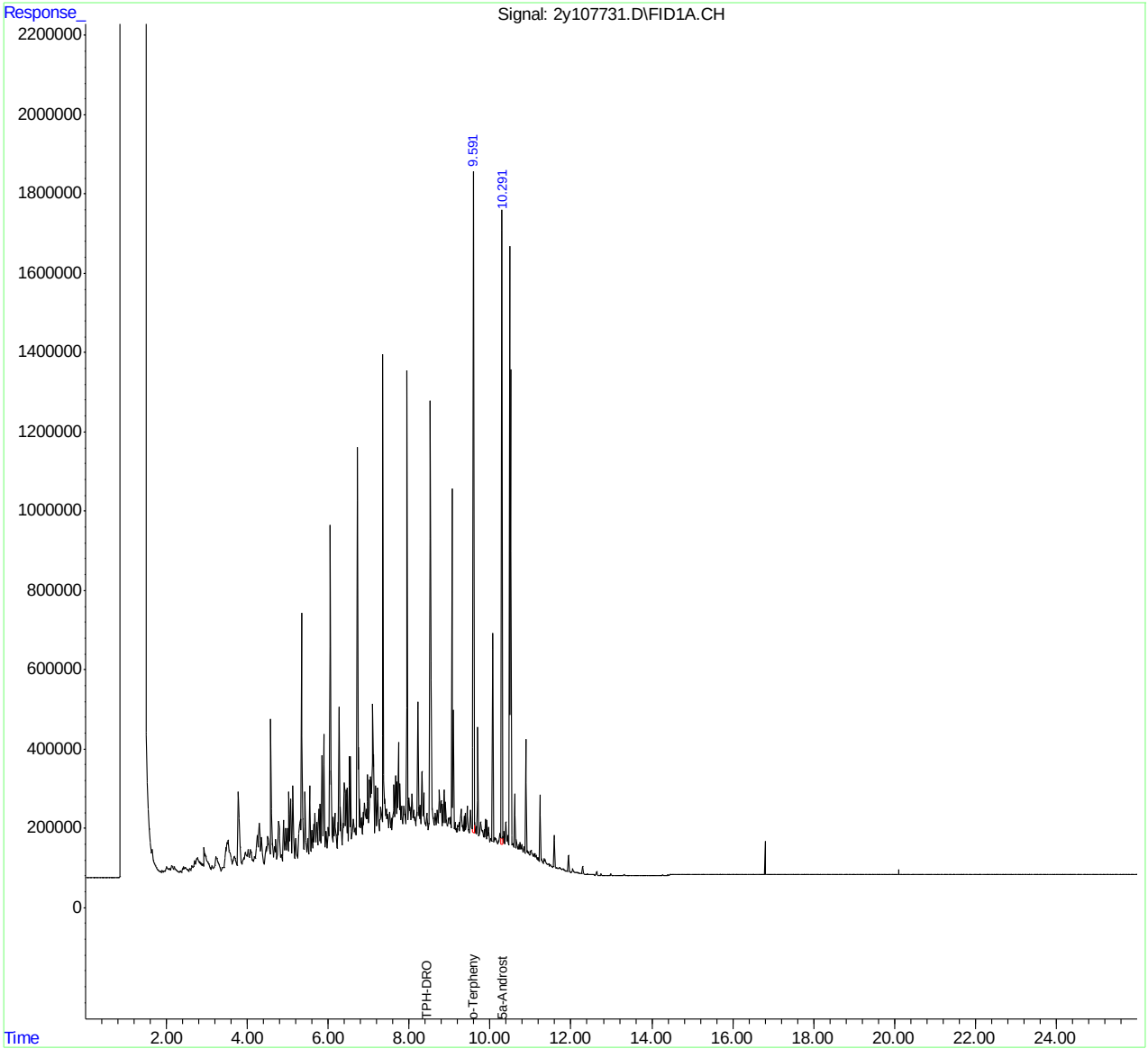
9.6.6

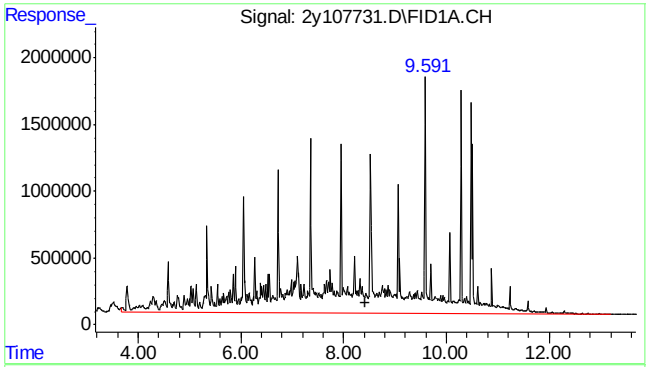
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107731.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 8:16 pm
Operator : thomasl
Sample : icc4195-1000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:11:27 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

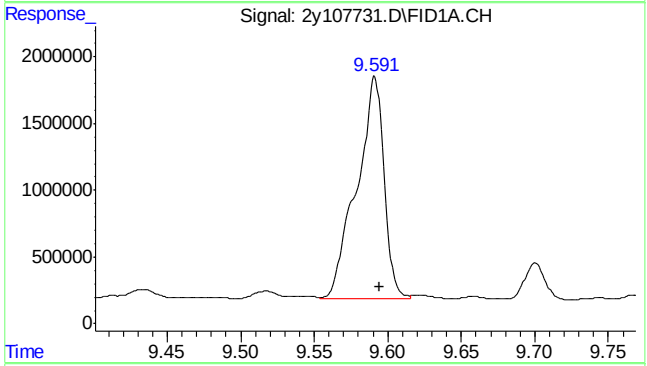
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





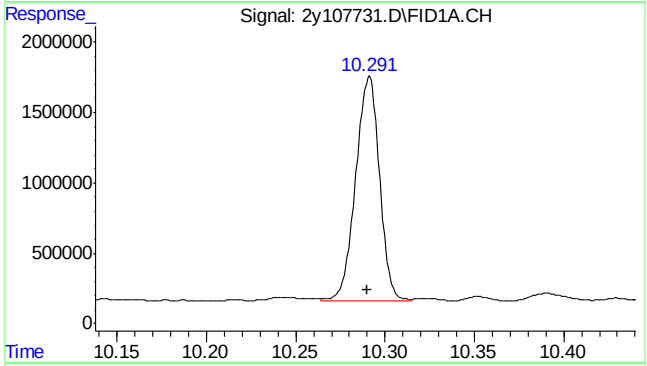
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 623241122
Conc: 971.13 PPM m



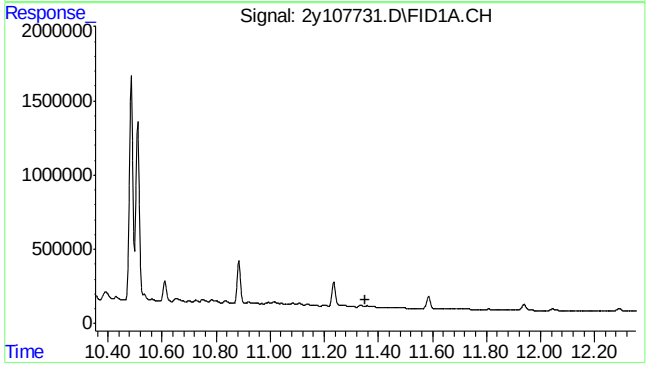
#9 o-Terphenyl

R.T.: 9.591 min
Delta R.T.: -0.004 min
Response: 21545080
Conc: 24.49 PPM



#10 5a-Androstane

R.T.: 10.291 min
Delta R.T.: 0.000 min
Response: 14825150
Conc: 18.41 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107732.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 8:50 pm
Operator : thomasl
Sample : ic4195-2500
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:12:24 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.601	53476813	60.774 PPM
Spiked Amount 50.000		Recovery =	121.55%
10) S 5a-Androstane	10.301	37289179	46.314 PPM
Spiked Amount 50.000		Recovery =	92.63%
Target Compounds			
1) H TPH-DRO	8.430	1565401787	2439.198 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.7

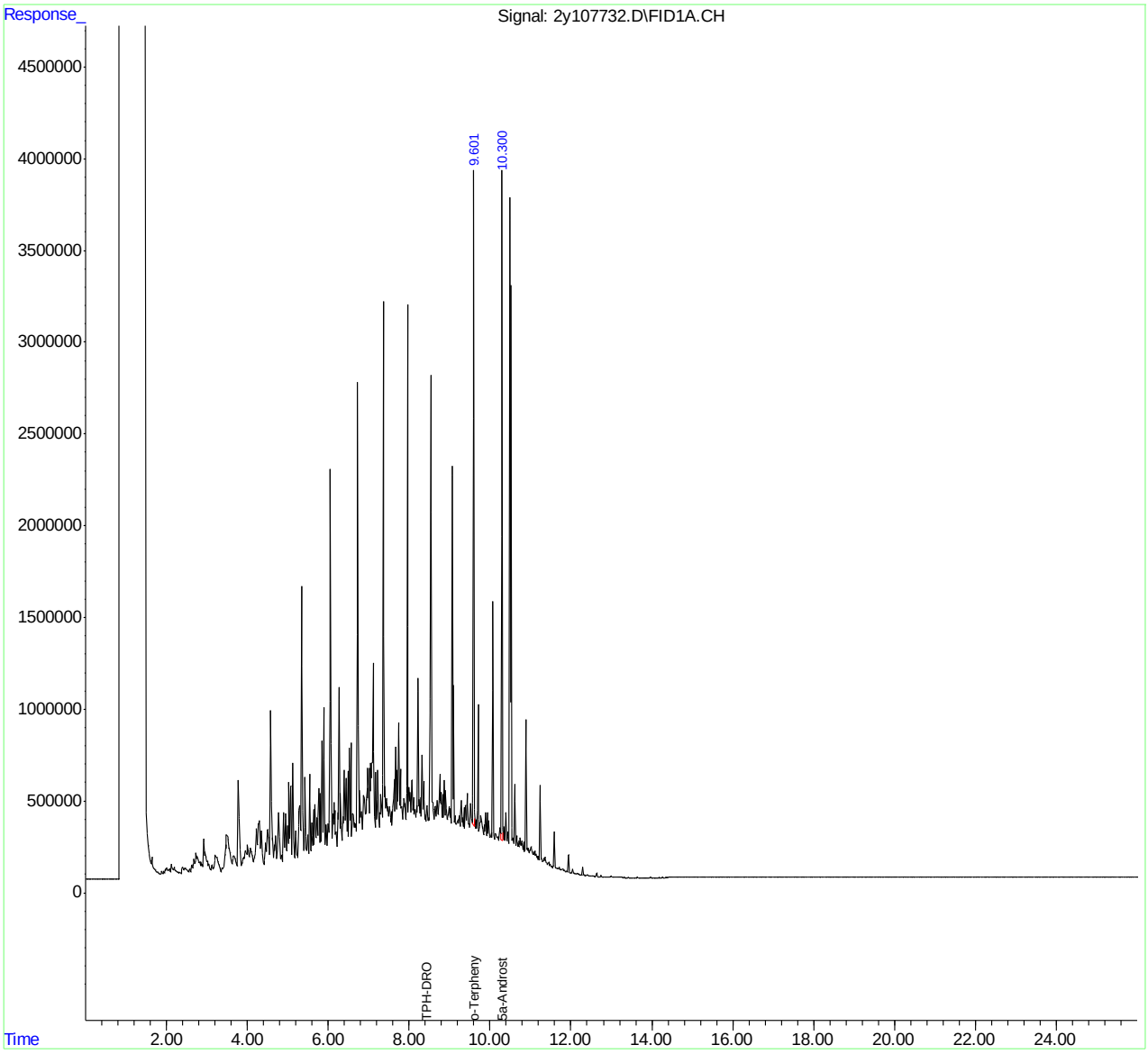
9

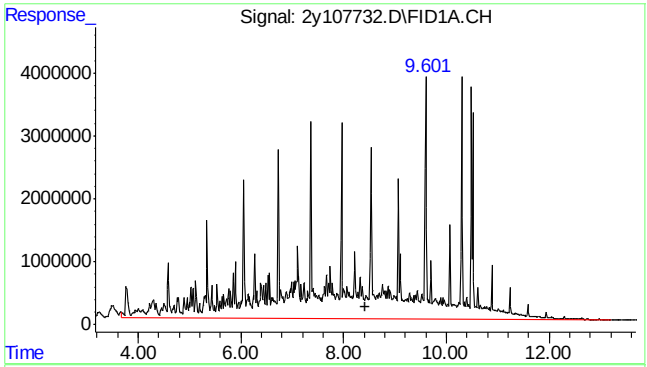
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107732.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 8:50 pm
Operator : thomasl
Sample : ic4195-2500
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:12:24 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:00:51 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

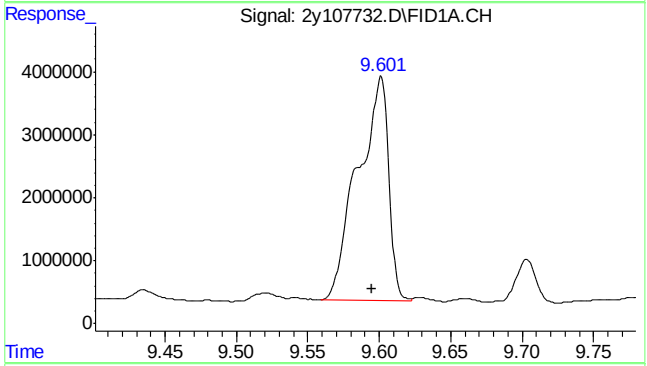
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





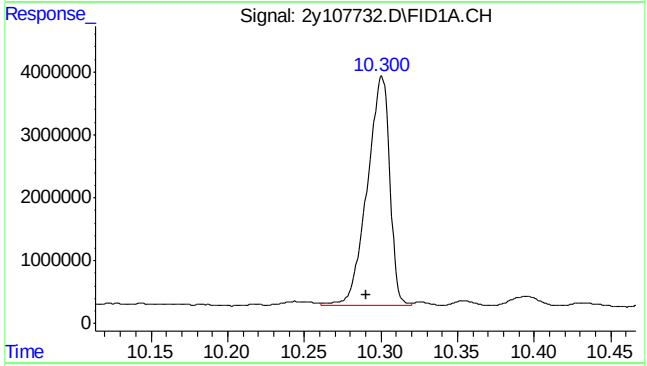
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 1565401787
Conc: 2439.20 PPM m



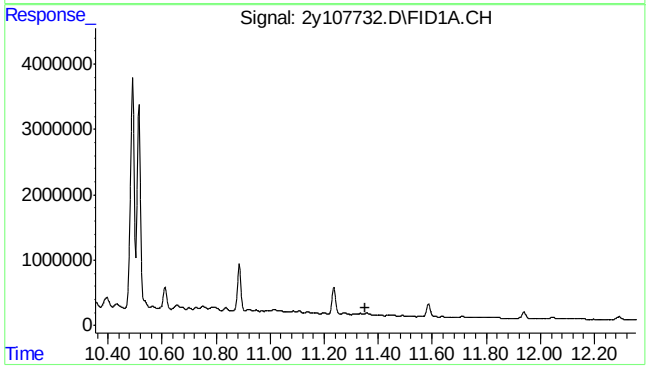
#9 o-Terphenyl

R.T.: 9.601 min
Delta R.T.: 0.006 min
Response: 53476813
Conc: 60.77 PPM



#10 5a-Androstane

R.T.: 10.301 min
Delta R.T.: 0.010 min
Response: 37289179
Conc: 46.31 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 03/17/22 10:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107733.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 10:15 pm
Operator : thomasl
Sample : ic4195-5000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:42:29 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.620	108678537	123.508	PPM	m
Spiked Amount 50.000		Recovery = 247.02%			
10) S 5a-Androstane	10.319	76139133	94.566	PPM	
Spiked Amount 50.000		Recovery = 189.13%			
Target Compounds					
1) H TPH-DRO	8.430	3142512865	4896.641	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.8

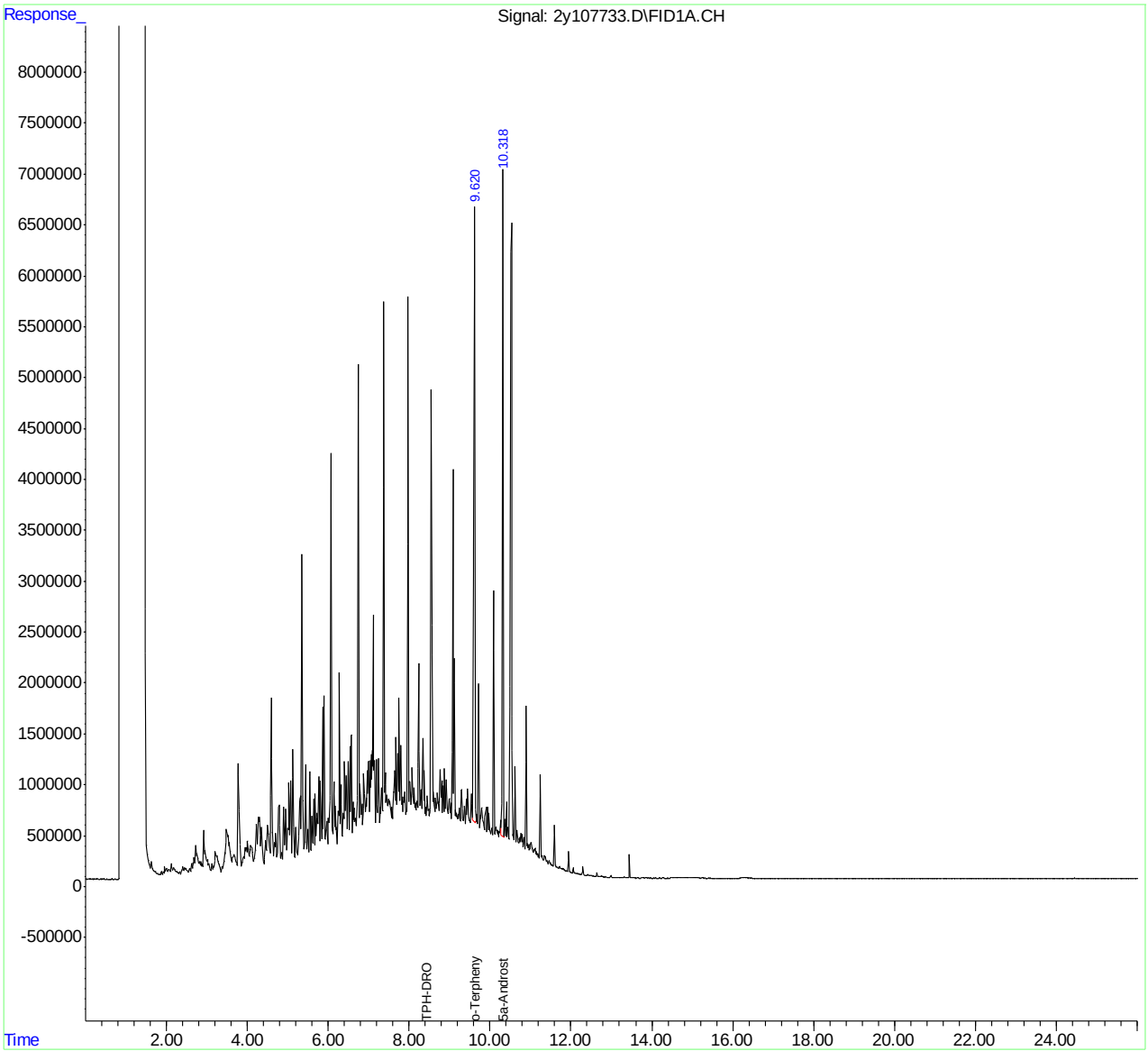
9

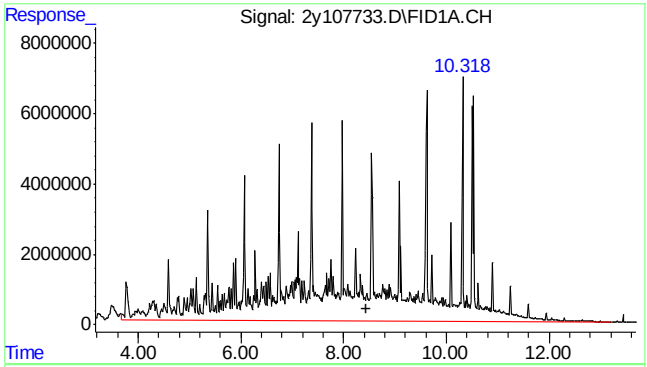
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107733.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 10:15 pm
Operator : thomasl
Sample : ic4195-5000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 12:42:29 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

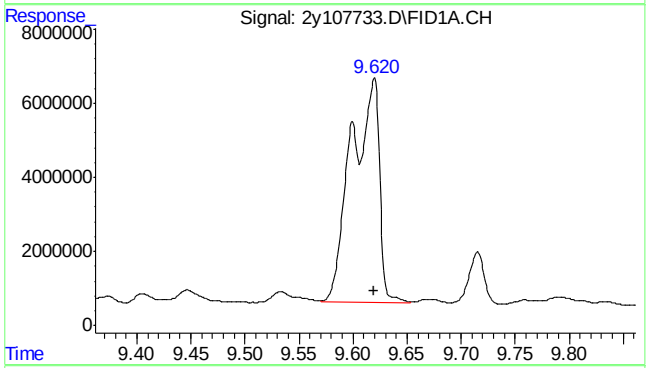
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





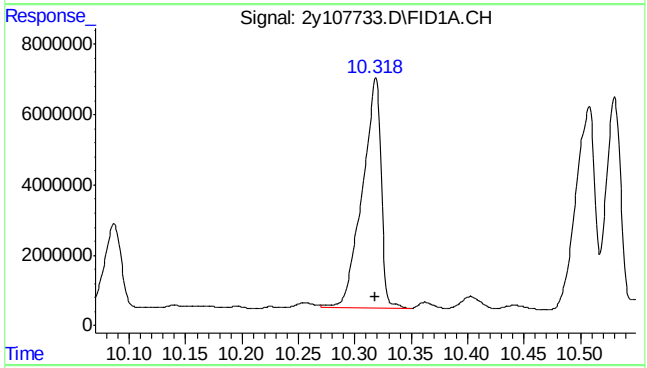
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 3142512865
Conc: 4896.64 PPM m



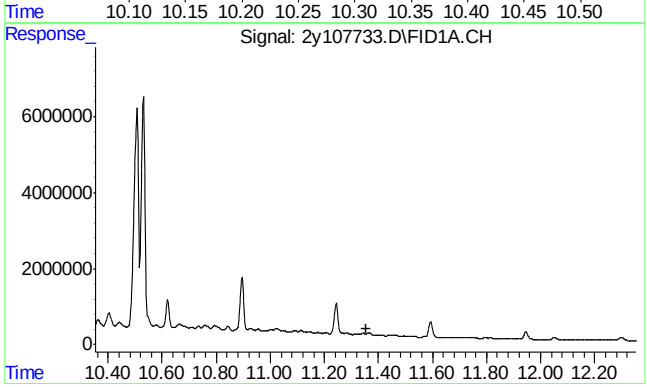
#9 o-Terphenyl

R.T.: 9.620 min
Delta R.T.: 0.000 min
Response: 108678537
Conc: 123.51 PPM m



#10 5a-Androstane

R.T.: 10.319 min
Delta R.T.: 0.000 min
Response: 76139133
Conc: 94.57 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Manual Integration Approval Summary

Sample Number:	G2Y4195-IC4195	**Method:**	SW846 8015D
Lab FileID:	2Y107733.D	**Analyst approved:**	03/16/22 17:15 Thomas Lally
Injection Time:	03/15/22 22:15	**Supervisor approved:**	03/17/22 10:02 Gwendolyn Burns

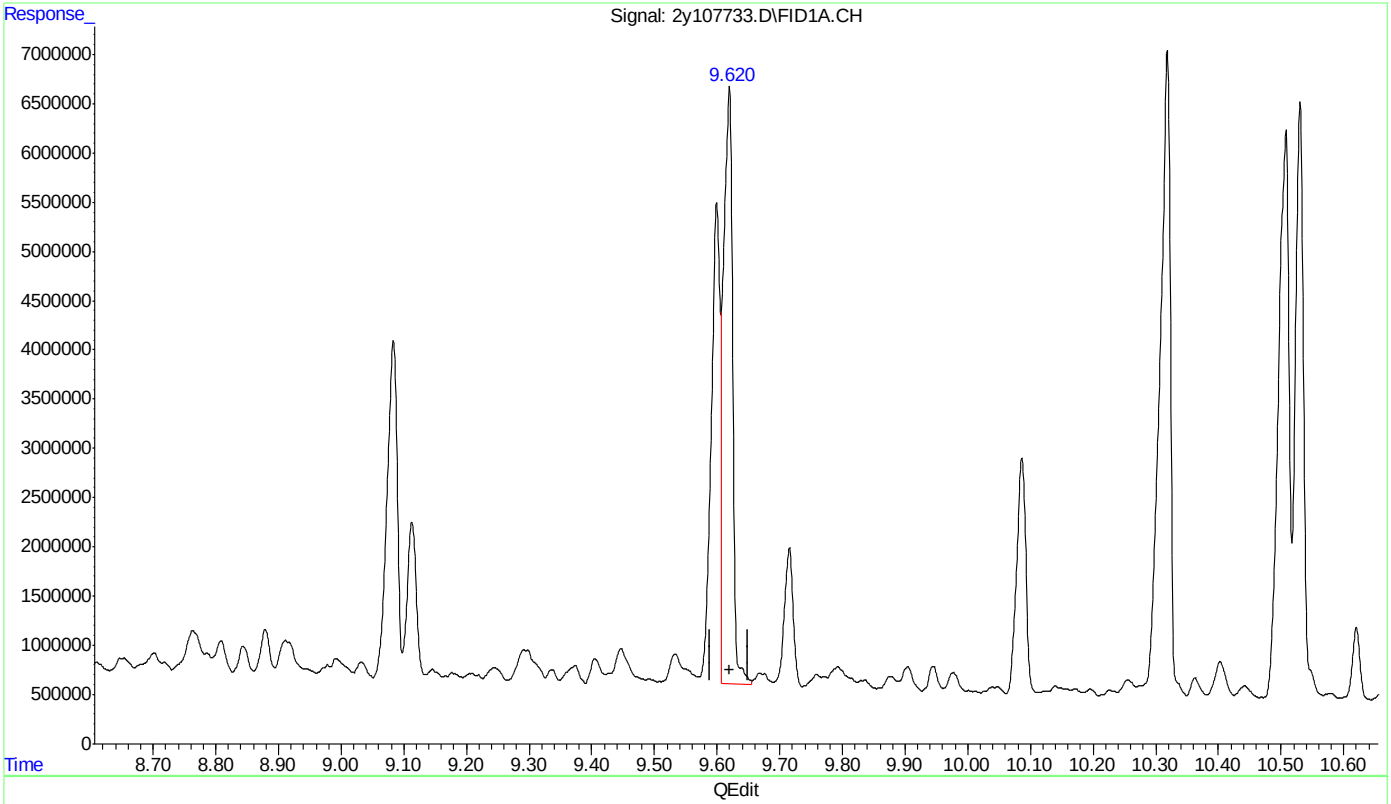
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.62	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107733.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 10:15 pm
Operator : thomasl
Sample : ic4195-5000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:13:46 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.620min 71.517PPM

response 62929729

(+) = Expected Retention Time

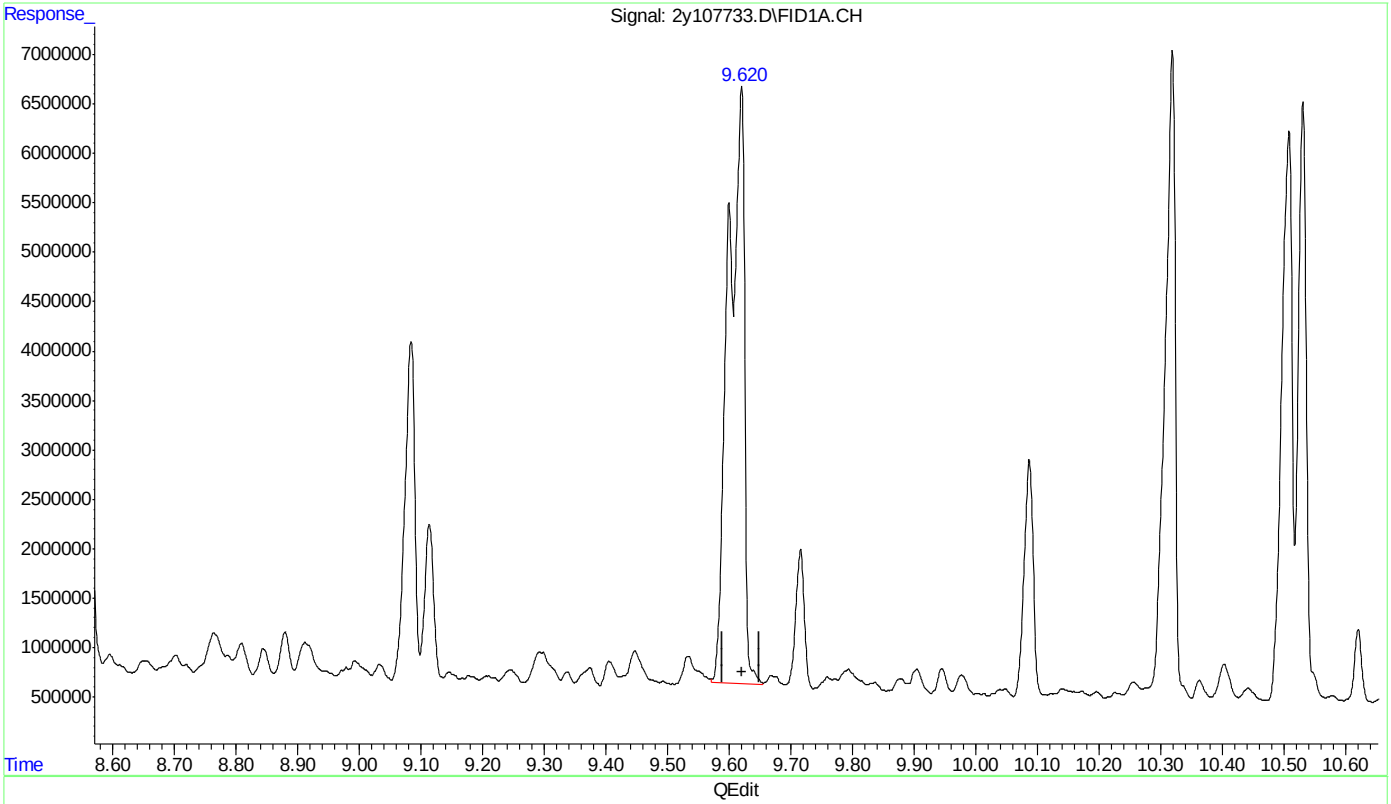
DRO2Y4195.M Wed Mar 16 12:42:25 2022 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107733.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 10:15 pm
Operator : thomasl
Sample : ic4195-5000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:13:46 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.620min 123.508PPM m

response 108678537

(+) = Expected Retention Time

DRO2Y4195.M Wed Mar 16 12:42:33 2022 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107734.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 10:48 pm
Operator : thomasl
Sample : ic4195-10000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:14:08 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
1) H TPH-DRO	8.430	6033561002	9401.451	PPM

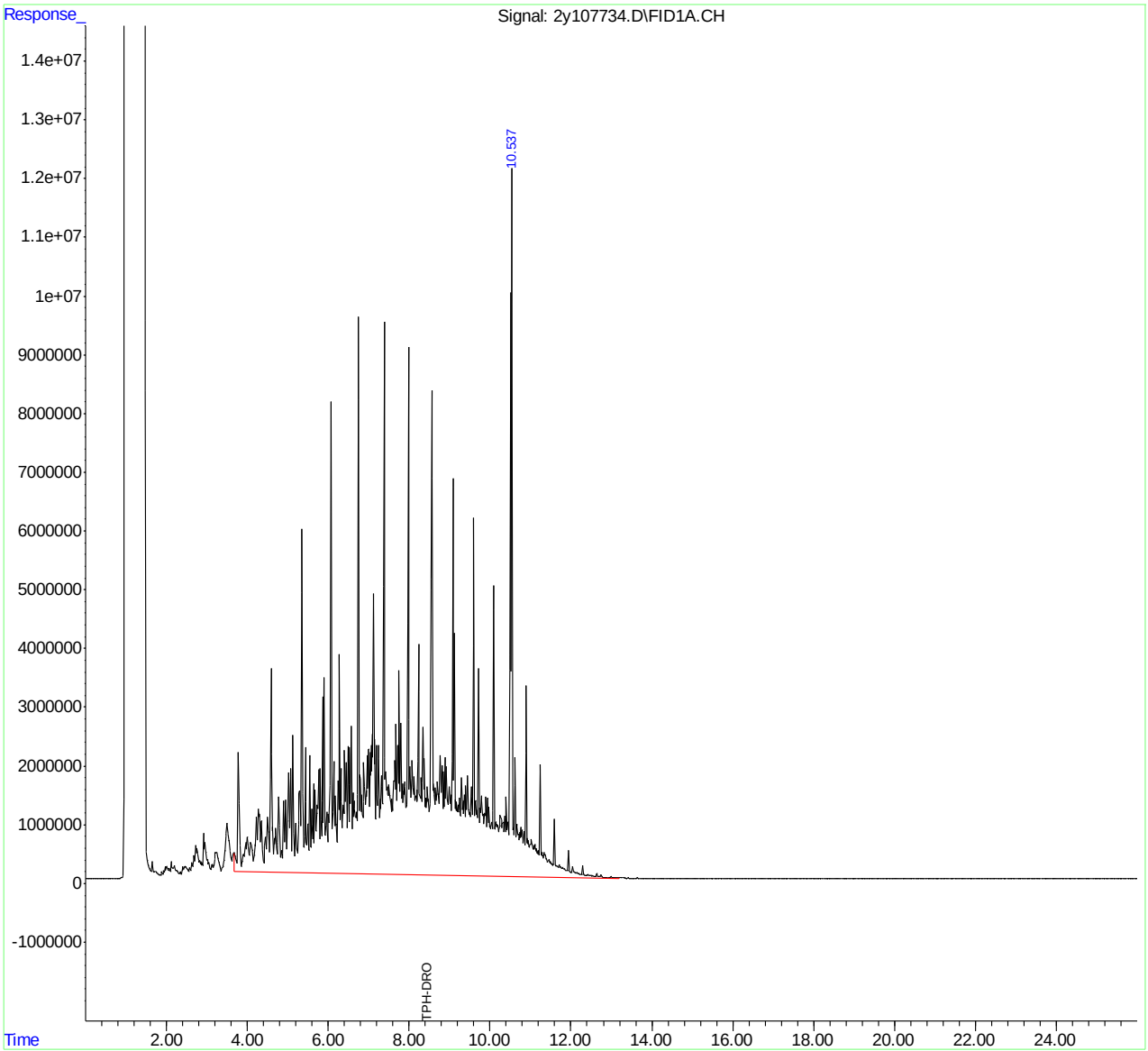
(f)=RT Delta > 1/2 Window (m)=manual int.

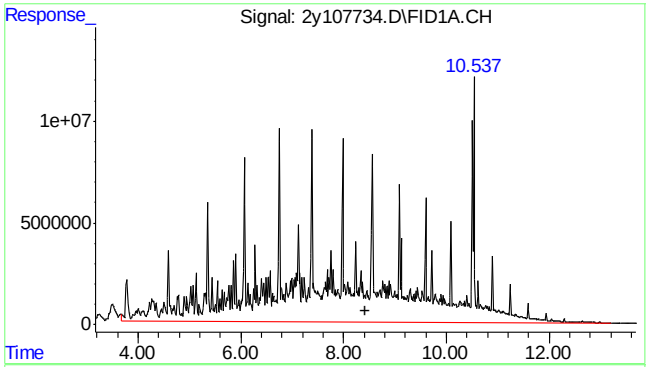
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107734.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 10:48 pm
Operator : thomasl
Sample : ic4195-10000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:14:08 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

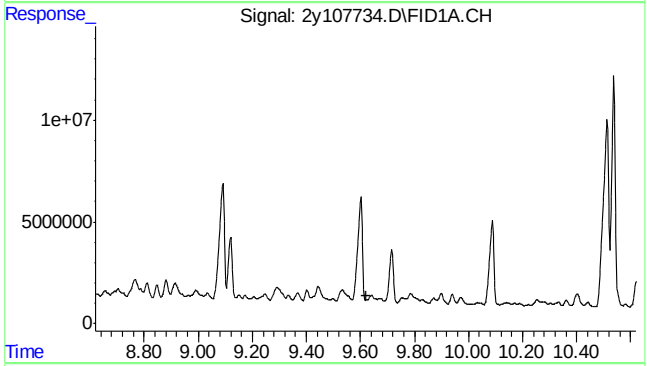
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





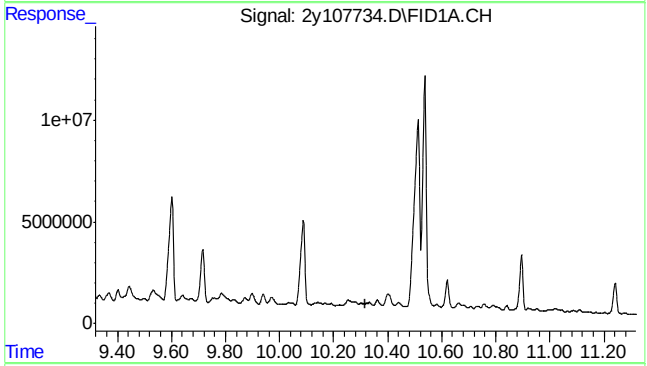
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 6033561002
Conc: 9401.45 PPM m



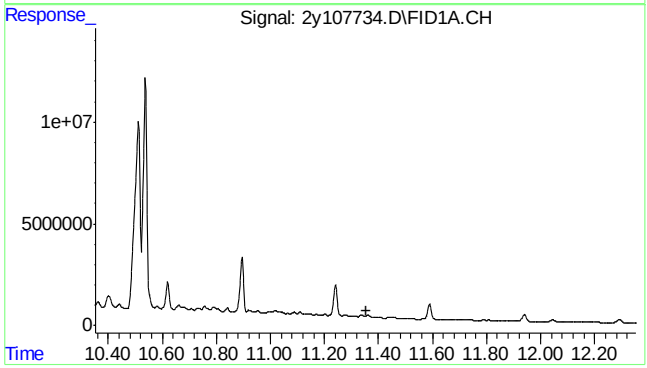
#9 o-Terphenyl

R.T.: 0.000 min
Exp R.T. : 9.620 min
Response: 0
Conc: N.D.



#10 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 10.319 min
Response: 0
Conc: N.D.



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107735.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 11:22 pm
Operator : thomasl
Sample : ic4195-50000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:14:25 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
1) H TPH-DRO	8.430	29636610472	46179.551	PPM

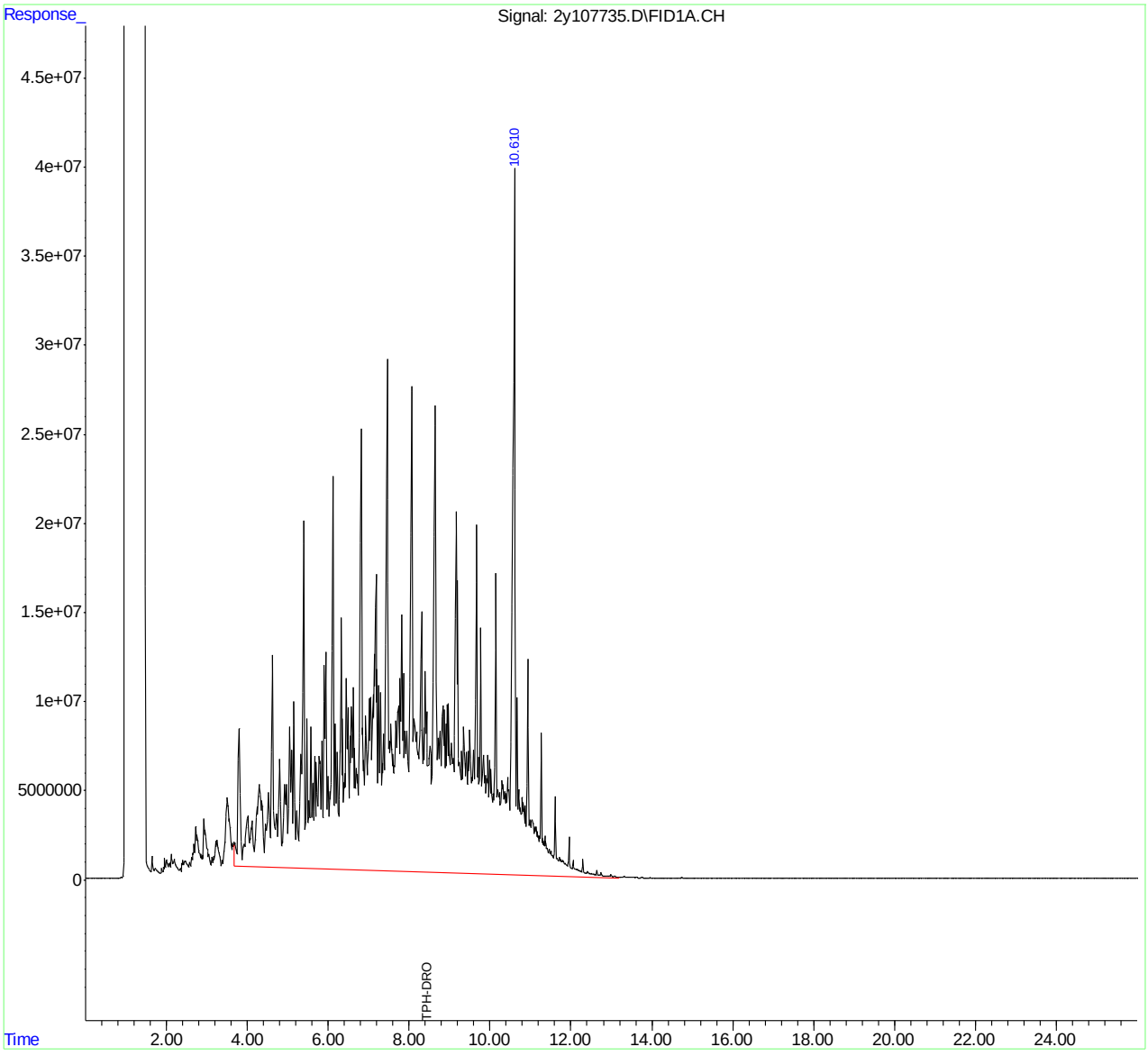
(f)=RT Delta > 1/2 Window (m)=manual int.

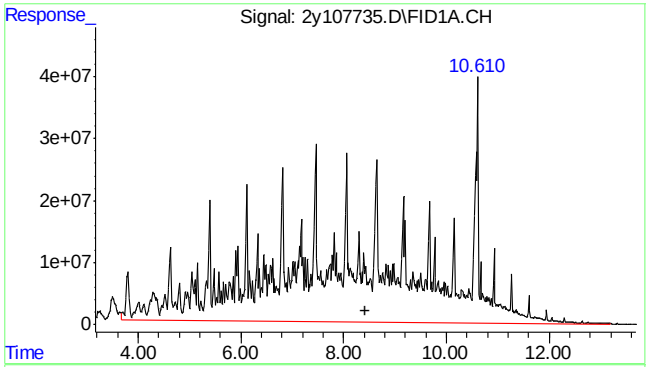
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107735.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 11:22 pm
Operator : thomasl
Sample : ic4195-50000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 11:14:25 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 11:13:38 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

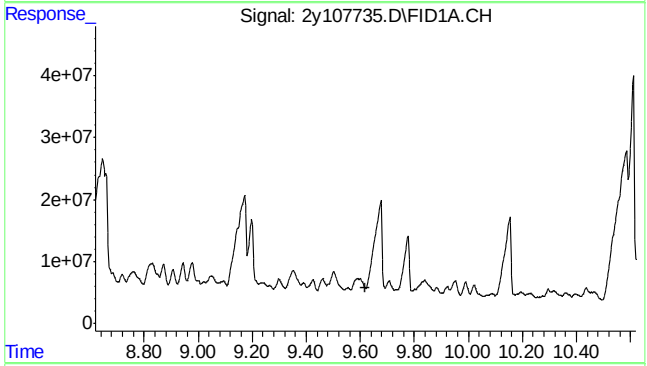
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





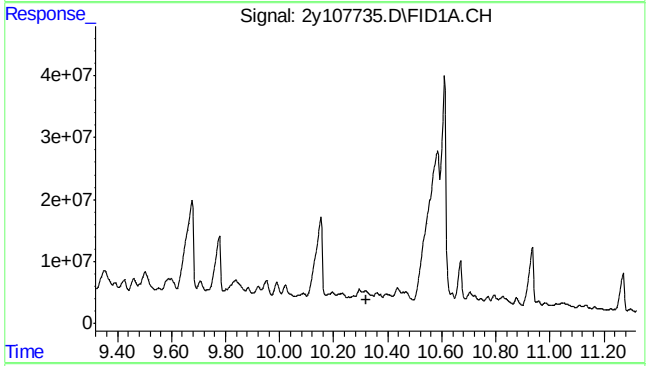
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 29636610472
Conc: 46179.55 PPM m



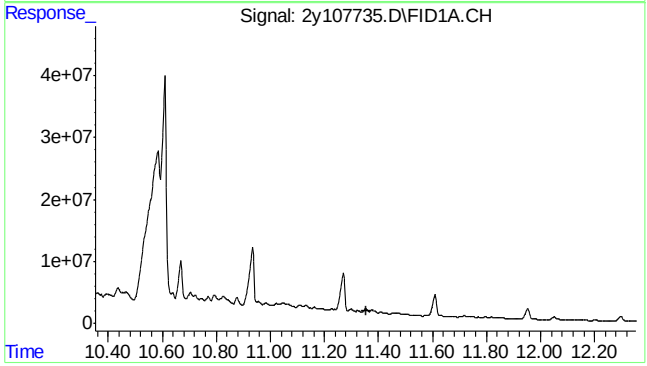
#9 o-Terphenyl

R.T.: 0.000 min
Exp R.T. : 9.620 min
Response: 0
Conc: N.D.



#10 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 10.319 min
Response: 0
Conc: N.D.



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.10

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107736.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 11:56 pm
Operator : thomasl
Sample : icv4195-1000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 17:10:16 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 17:09:54 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
1) H TPH-DRO	8.430	538169856	865.598 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.11

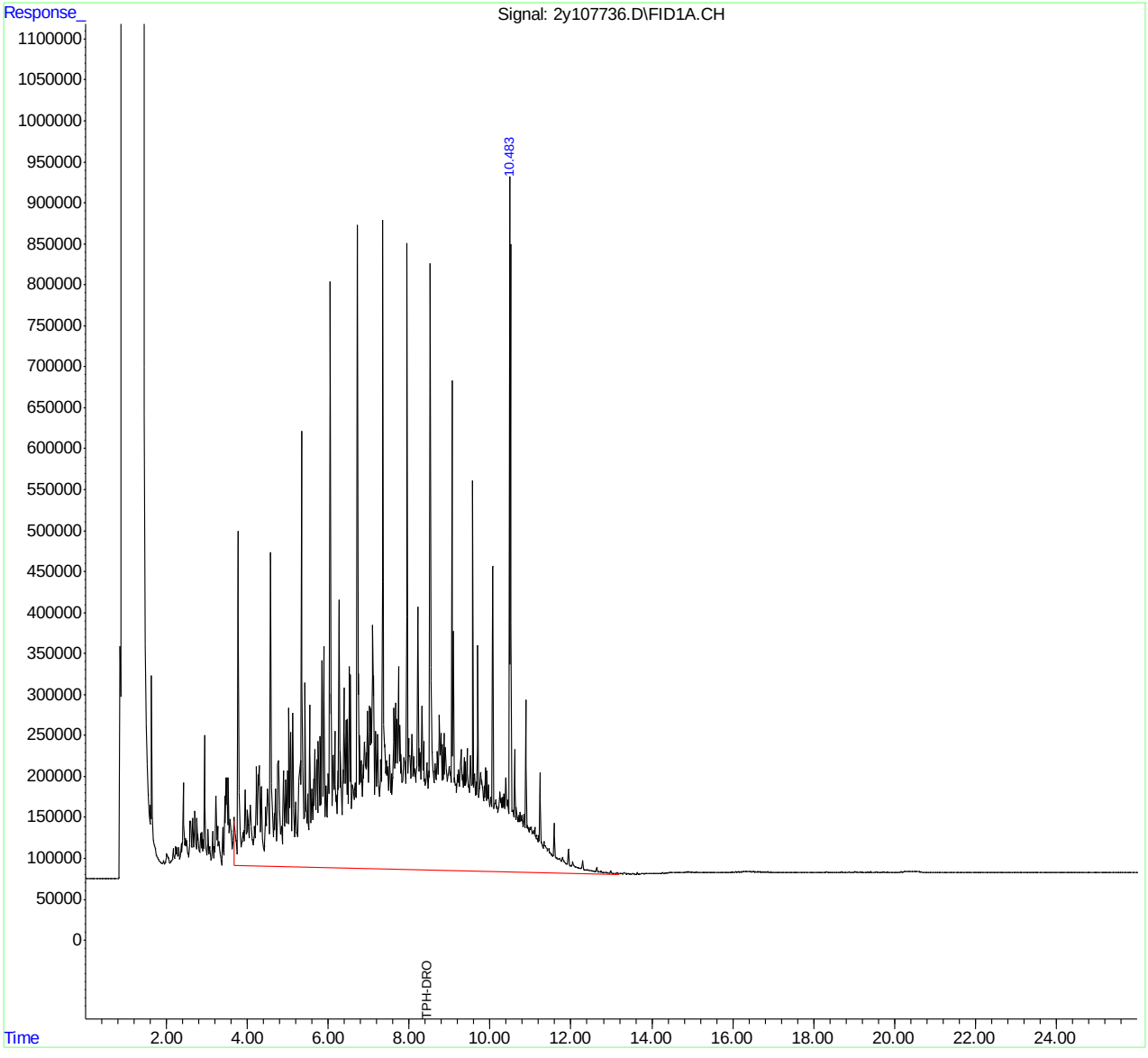
9

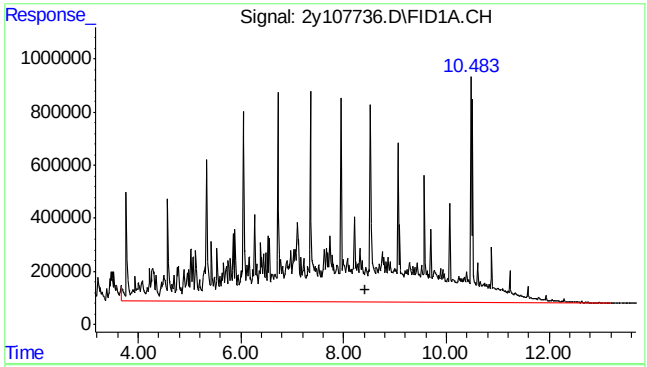
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2y4195\
Data File : 2y107736.D
Signal(s) : FID1A.CH
Acq On : 15 Mar 2022 11:56 pm
Operator : thomasl
Sample : icv4195-1000
Misc : op38304,g2y4195,10.0,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 16 17:10:16 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Wed Mar 16 17:09:54 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

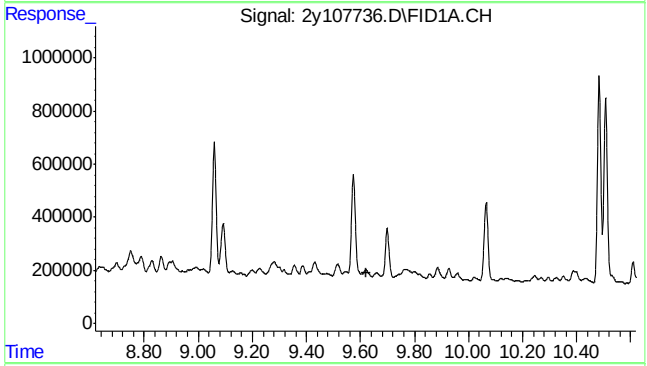
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





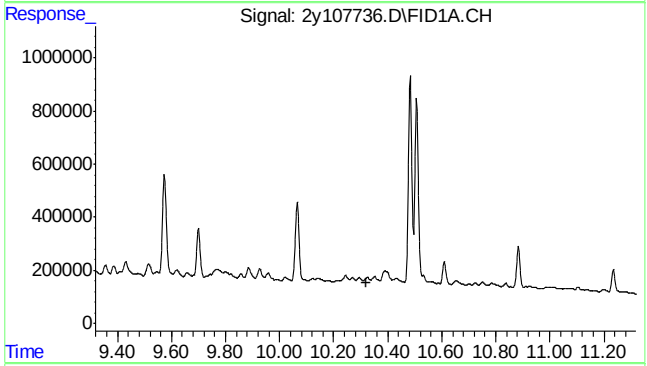
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 538169856
Conc: 865.60 PPM m



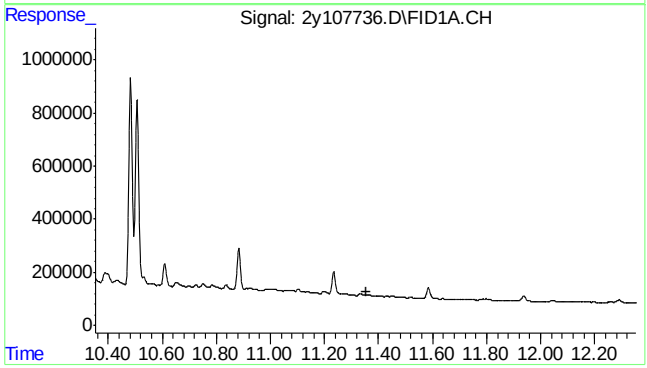
#9 o-Terphenyl

R.T.: 0.000 min
Exp R.T. : 9.620 min
Response: 0
Conc: N.D.



#10 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 10.319 min
Response: 0
Conc: N.D.



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 17:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109587.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:41:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.532	10617061	9.668	PPM	m
Spiked Amount 50.000		Recovery =	19.34%		
10) S 5a-Androstane	10.231	6894944	9.202	PPM	m
Spiked Amount 50.000		Recovery =	18.40%		
Target Compounds					
1) H TPH-DRO	8.430	302668615	486.815	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

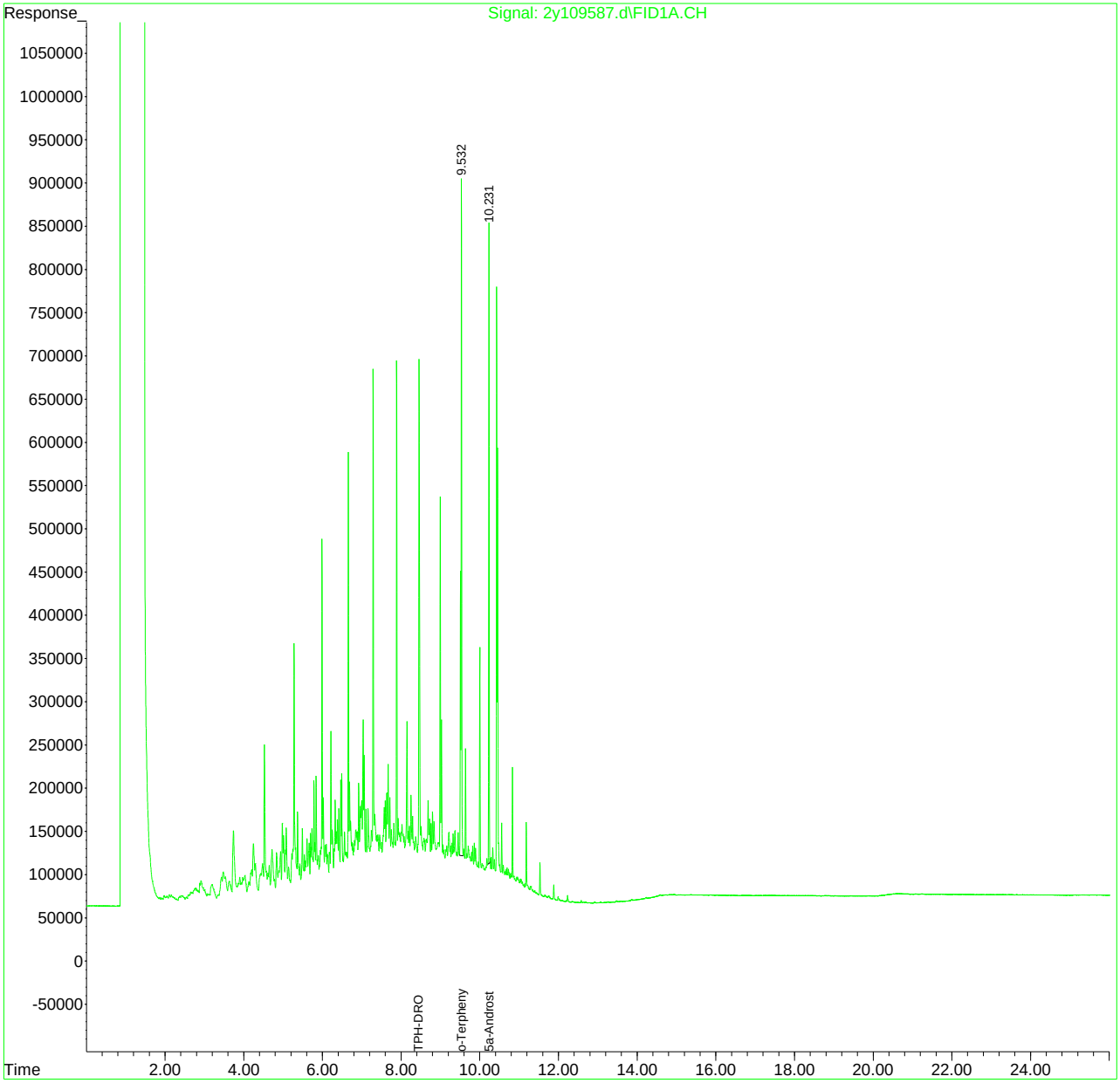
9.6.12
9

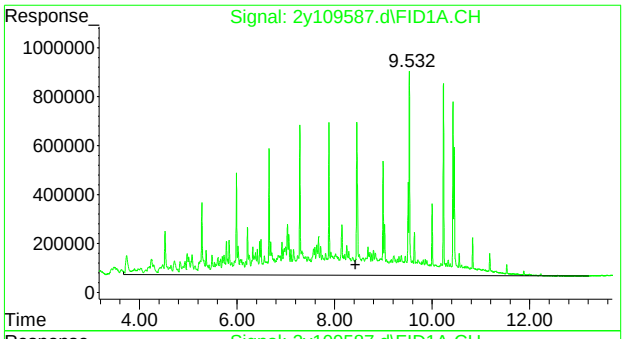
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109587.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:41:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

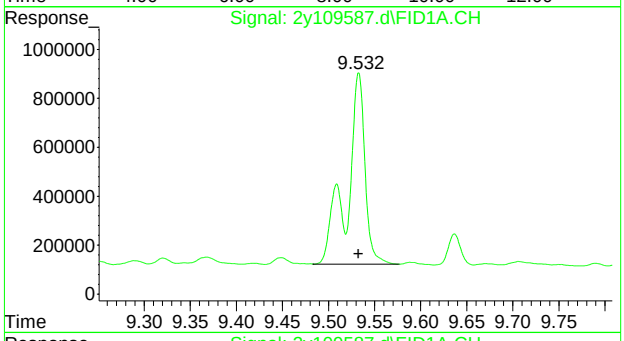
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





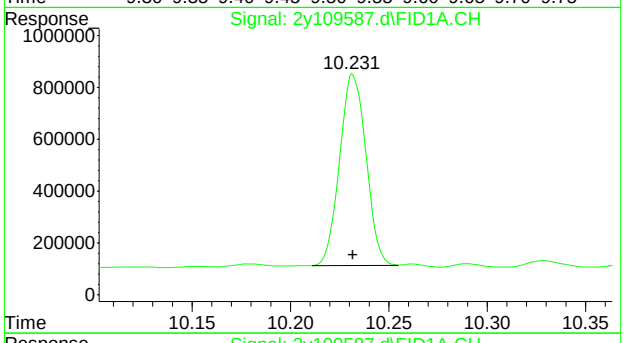
#1 TPH-DRO

```
      R.T.:    8.430 min
Delta R.T.:    0.000 min
  Response: 302668615
      Conc: 486.82 PPM
```



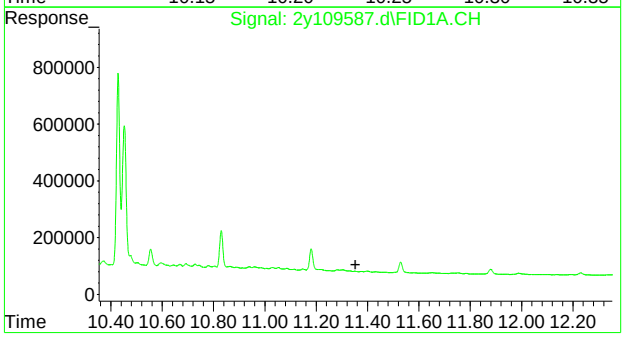
#9 o-Terphenyl

```
      R.T.:    9.532 min
Delta R.T.:    0.000 min
  Response:  10617061
      Conc:   9.67 PPM m
```



#10 5a-Androstane

```
      R.T.:   10.231 min
Delta R.T.:    0.000 min
  Response:   6894944
      Conc:   9.20 PPM m
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:   N.D.
```

Manual Integration Approval Summary

Sample Number:	G2Y4272-CC4195	**Method:**	SW846 8015D
Lab FileID:	2Y109587.D	**Analyst approved:**	08/11/22 04:29 MaryAnne Loyola
Injection Time:	08/10/22 15:10	**Supervisor approved:**	08/11/22 17:13 Jason Savoie

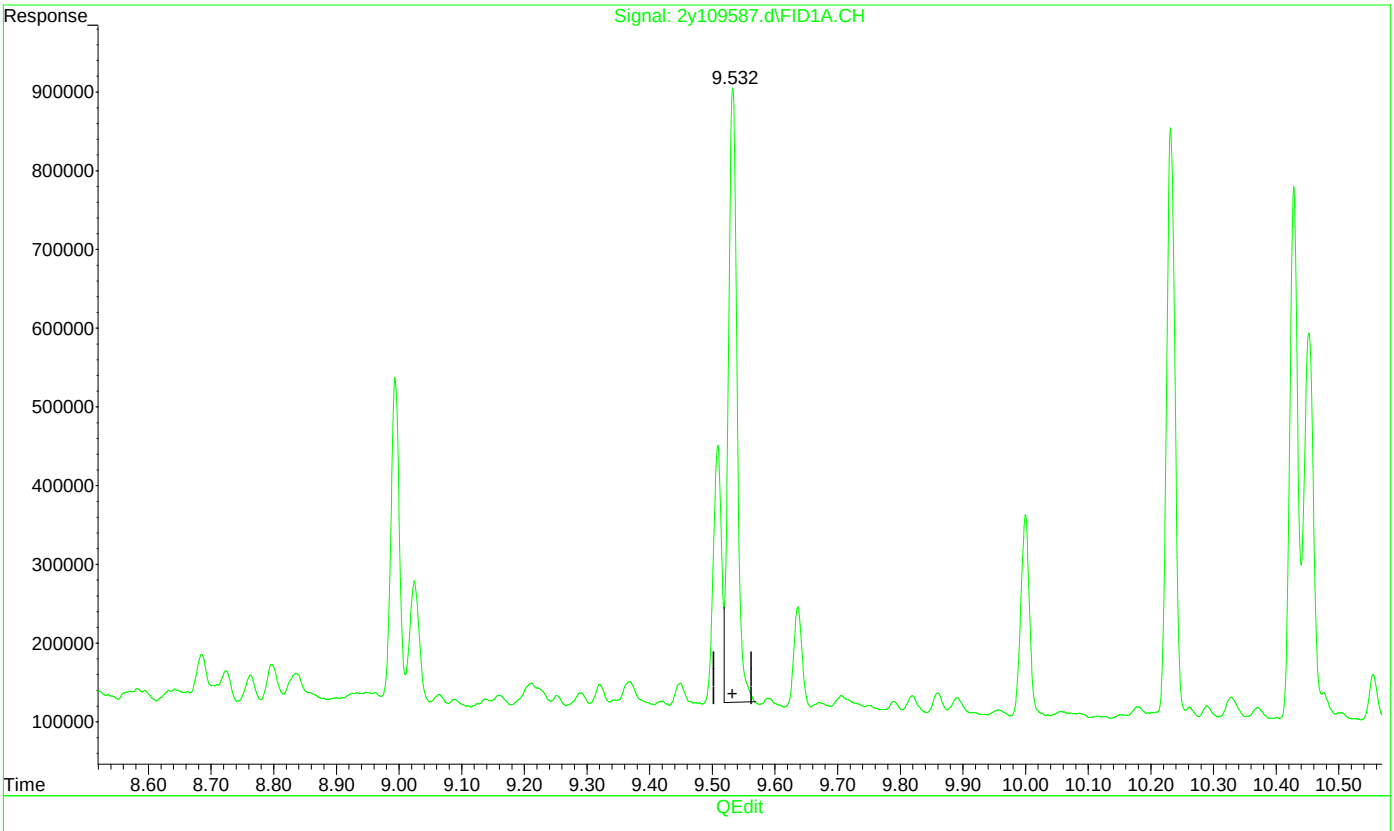
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline
5a-Androstane	438-22-2	1	10.23	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109587.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:40:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.533min 6.850 PPM

response 7523168

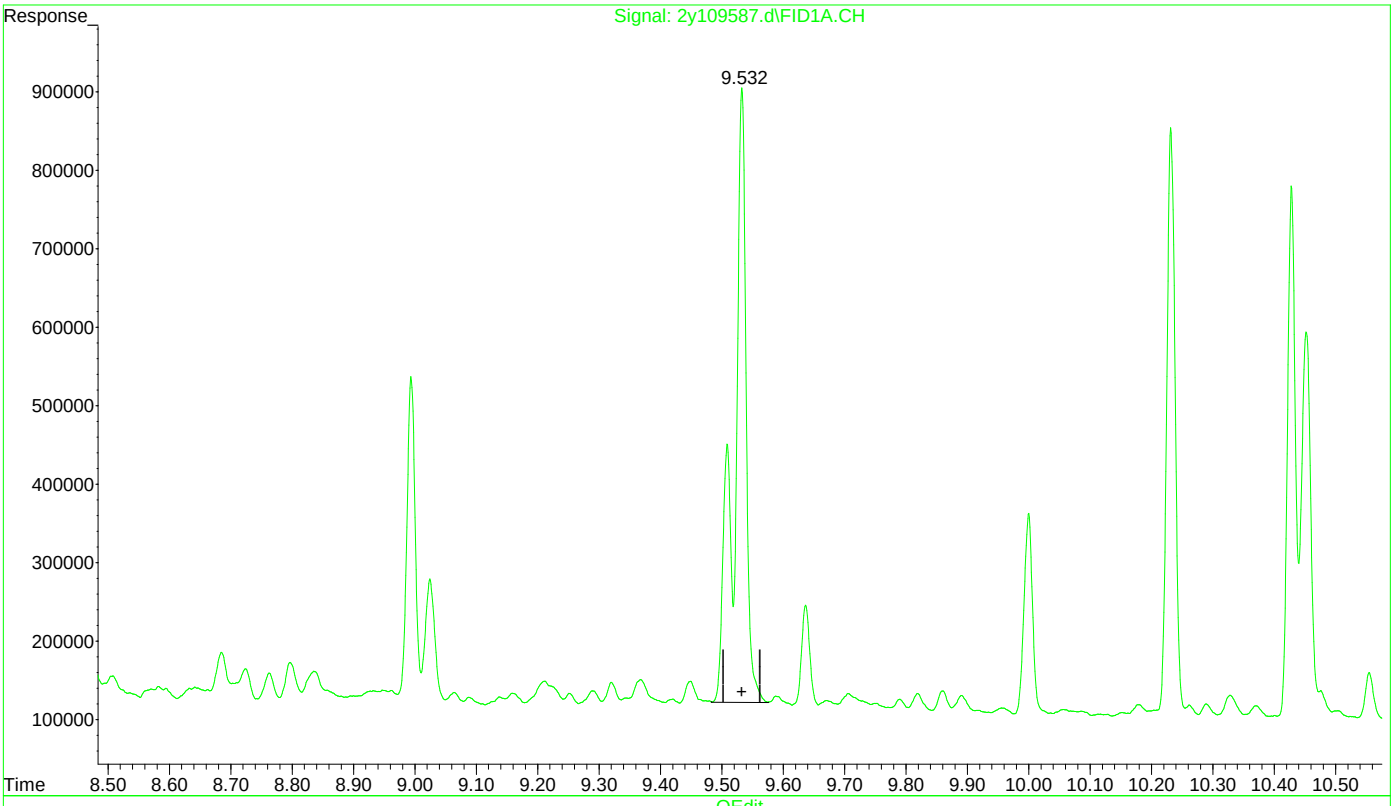
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:40:45 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109587.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:40:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.532min 9.668 PPM m

response 10617061

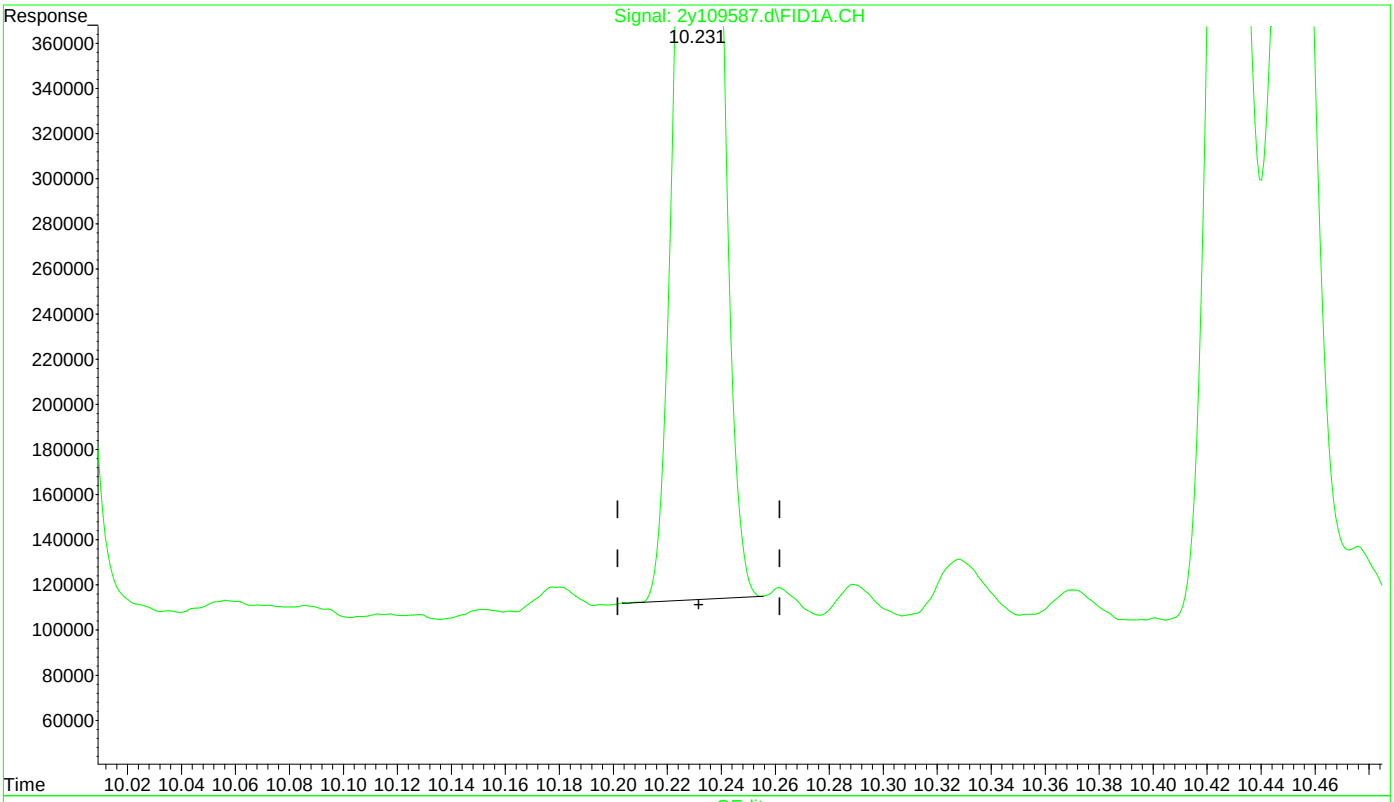
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:40:57 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109587.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:40:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.232min 9.173 PPM

response 6873019

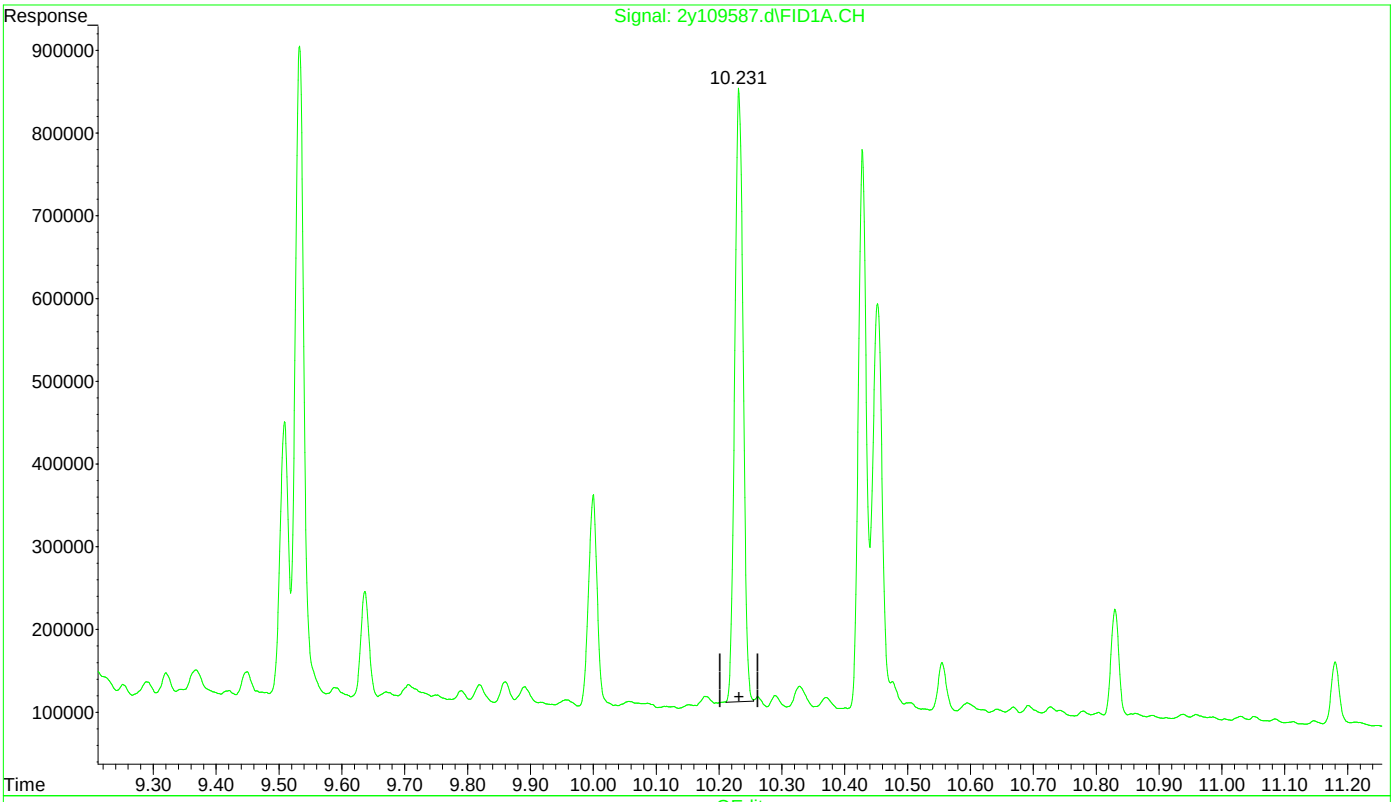
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109587.d
Signal(s) : FID1A.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41139,g2y4272,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:40:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



QEdit

(10) 5a-Androstane (S)

10.231min 9.202 PPM m

response 6894944

(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:41:11 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 17:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109598.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:42:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.535	20999705	19.122	PPM	m
Spiked Amount 50.000		Recovery =	38.24%		
10) S 5a-Androstane	10.235	13608682	18.163	PPM	m
Spiked Amount 50.000		Recovery =	36.33%		
Target Compounds					
1) H TPH-DRO	8.430	596818169	959.929	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.13

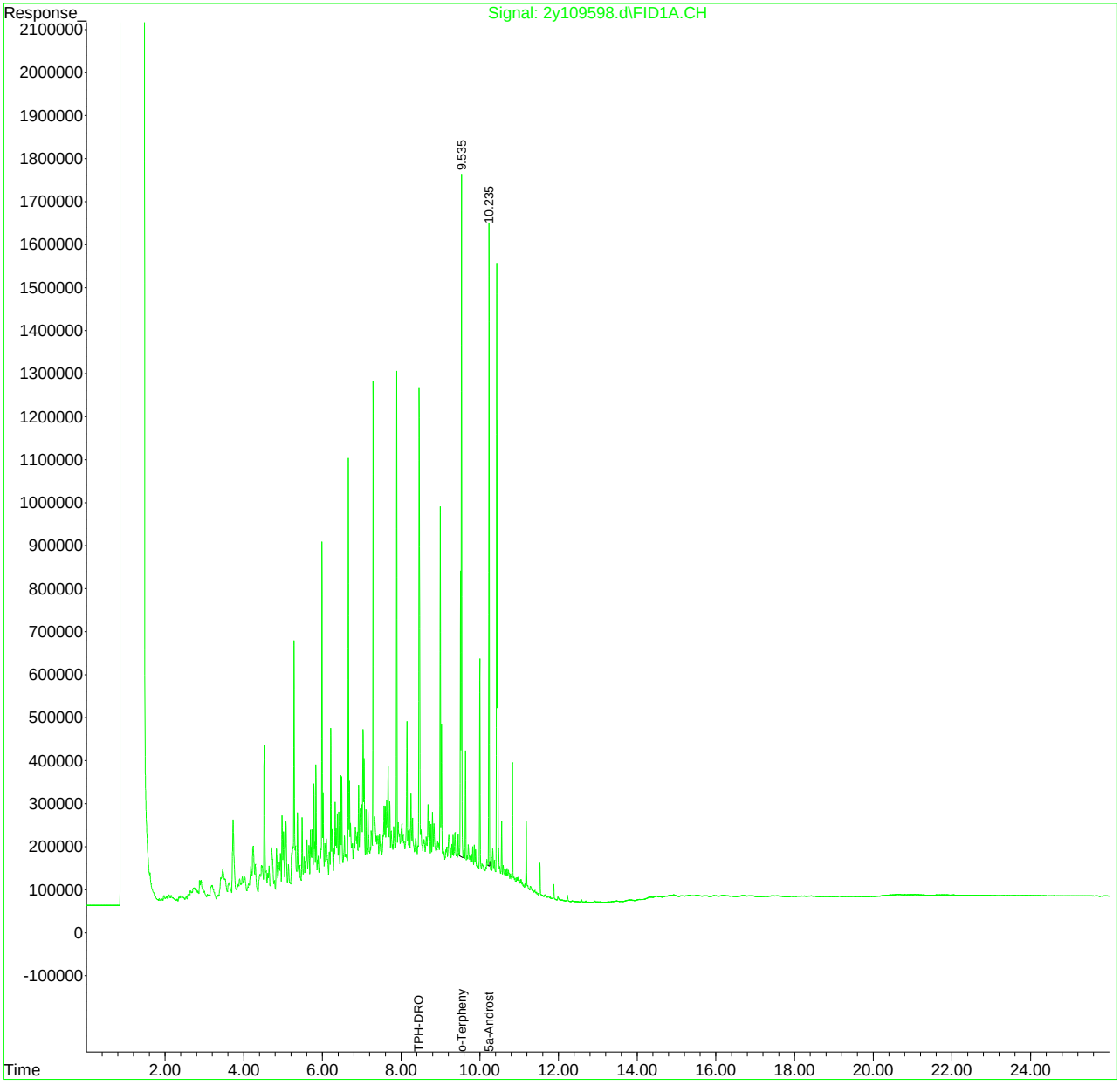
9

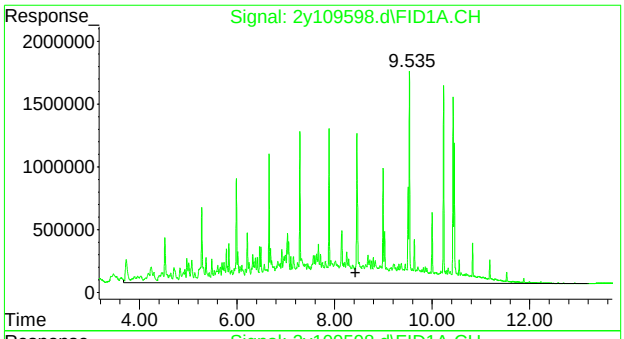
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109598.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:42:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

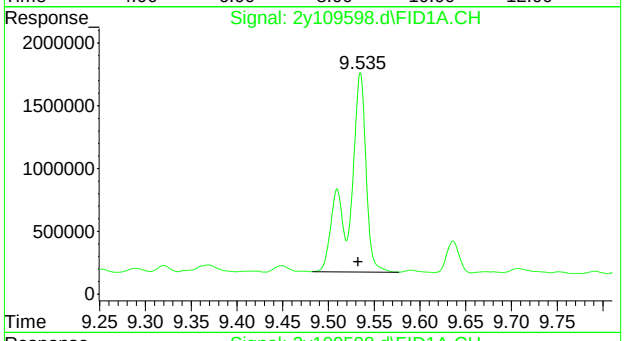
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





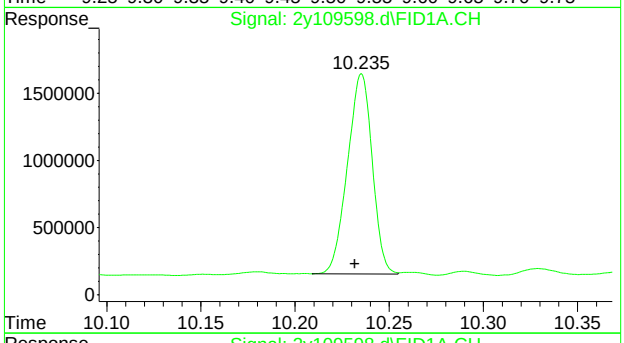
#1 TPH-DRO

```
      R.T.:    8.430 min
Delta R.T.:    0.000 min
  Response: 596818169
      Conc: 959.93 PPM
```



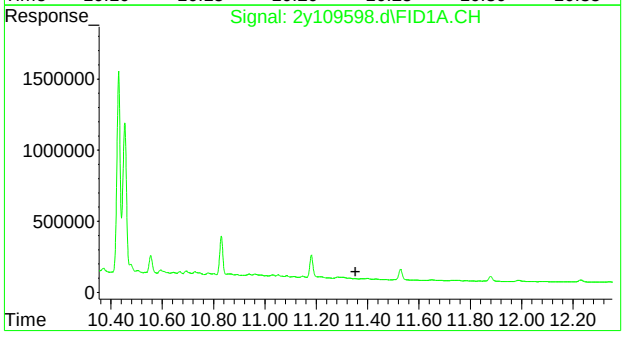
#9 o-Terphenyl

```
      R.T.:    9.535 min
Delta R.T.:    0.002 min
  Response:  20999705
      Conc:  19.12 PPM m
```



#10 5a-Androstane

```
      R.T:   10.235 min
Delta R.T.:    0.003 min
  Response:  13608682
      Conc:  18.16 PPM m
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:    N.D.
```

9.6.13

9

Manual Integration Approval Summary

Sample Number:	G2Y4272-CC4195	**Method:**	SW846 8015D
Lab FileID:	2Y109598.D	**Analyst approved:**	08/11/22 04:29 MaryAnne Loyola
Injection Time:	08/11/22 01:48	**Supervisor approved:**	08/11/22 17:13 Jason Savoie

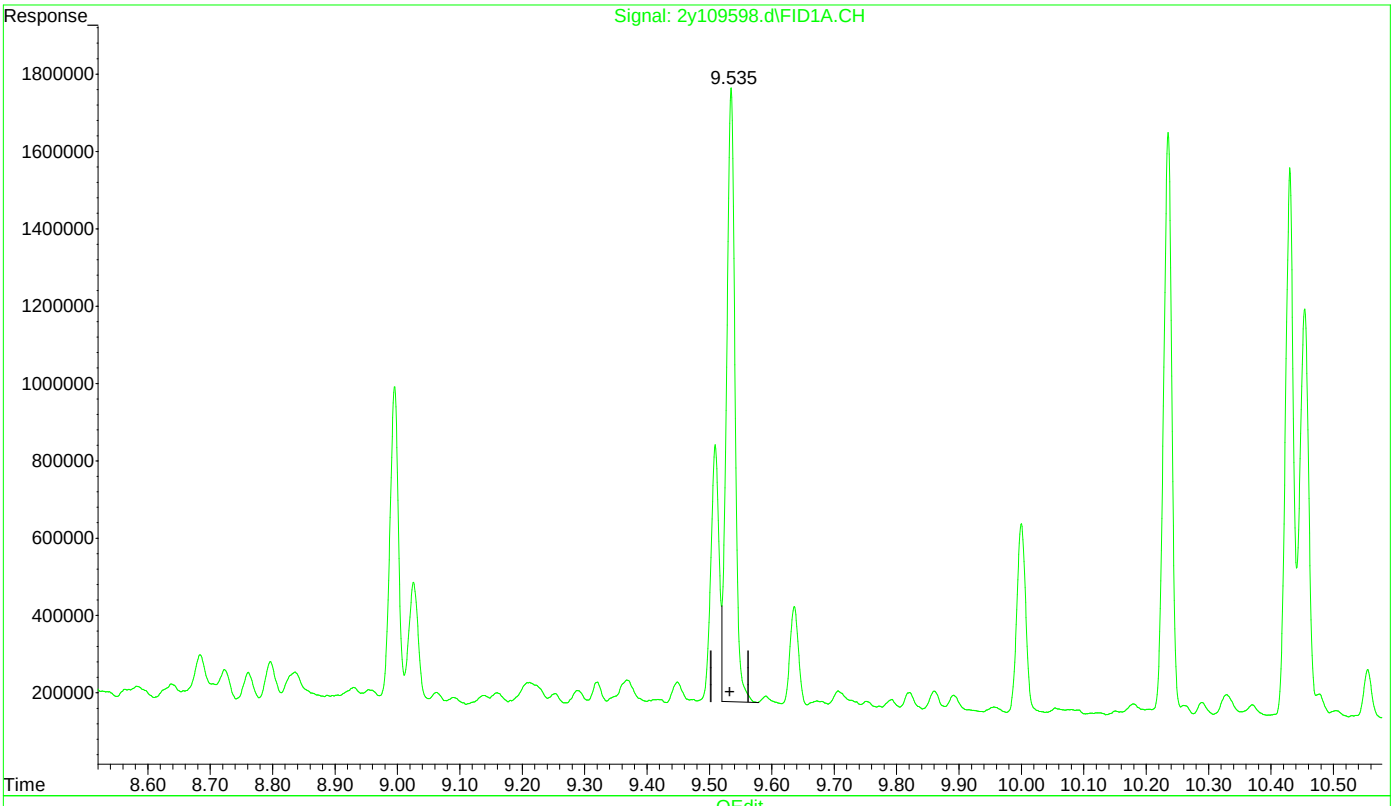
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline
5a-Androstane	438-22-2	1	10.23	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109598.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:42:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.535min 13.632 PPM

response 14971302

(+) = Expected Retention Time

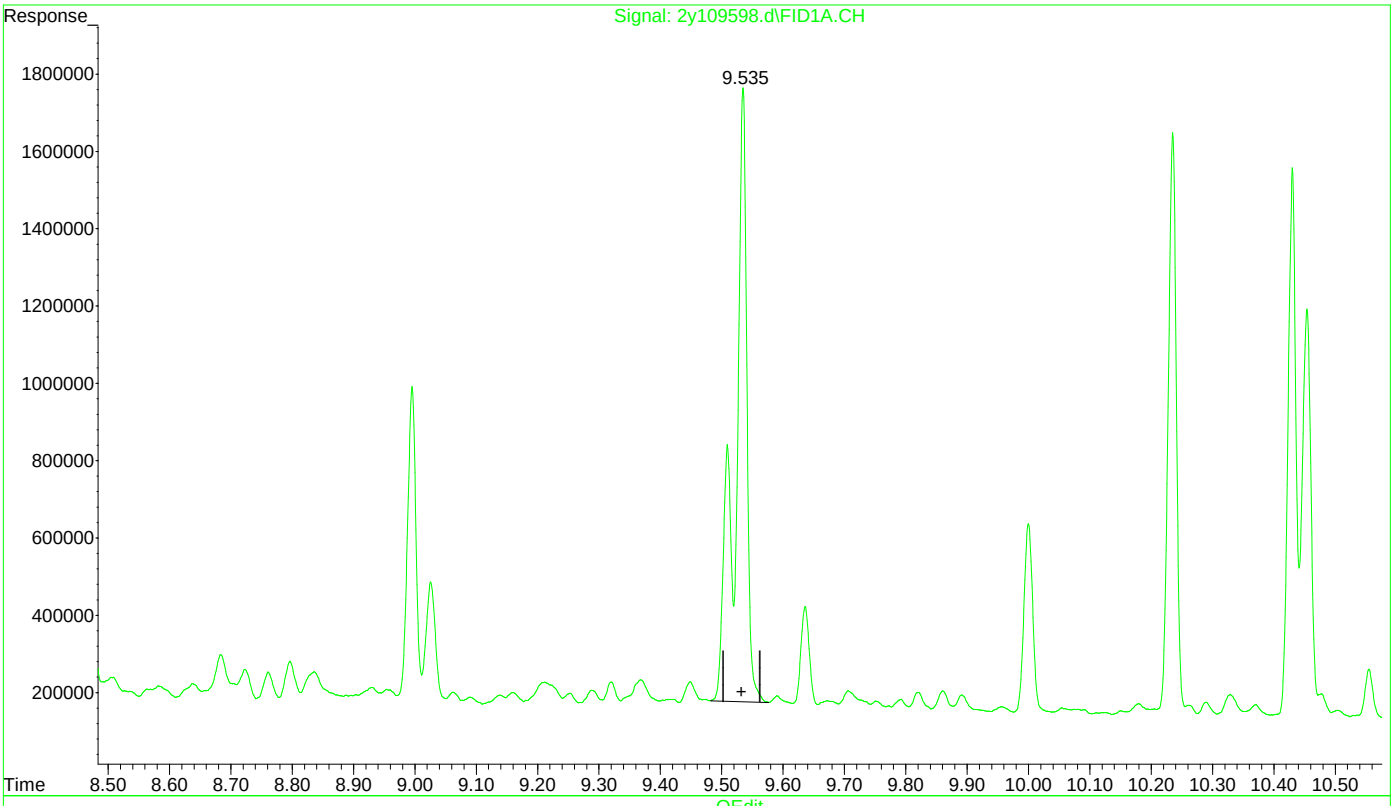
dro2y4195.m Thu Aug 11 03:42:39 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109598.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:42:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.535min 19.122 PPM m

response 20999705

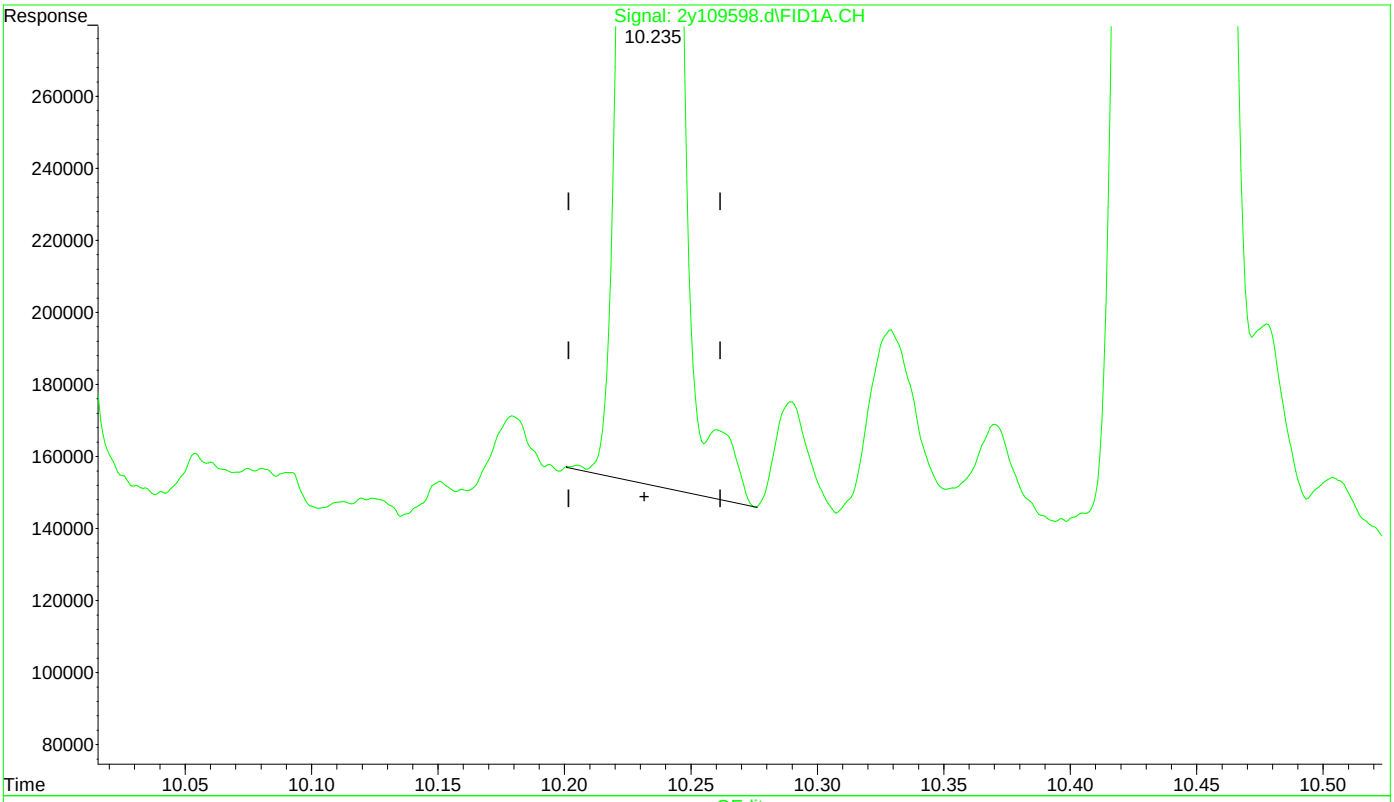
(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:42:48 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109598.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:42:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.235min 18.505 PPM

response 13865020

(+) = Expected Retention Time

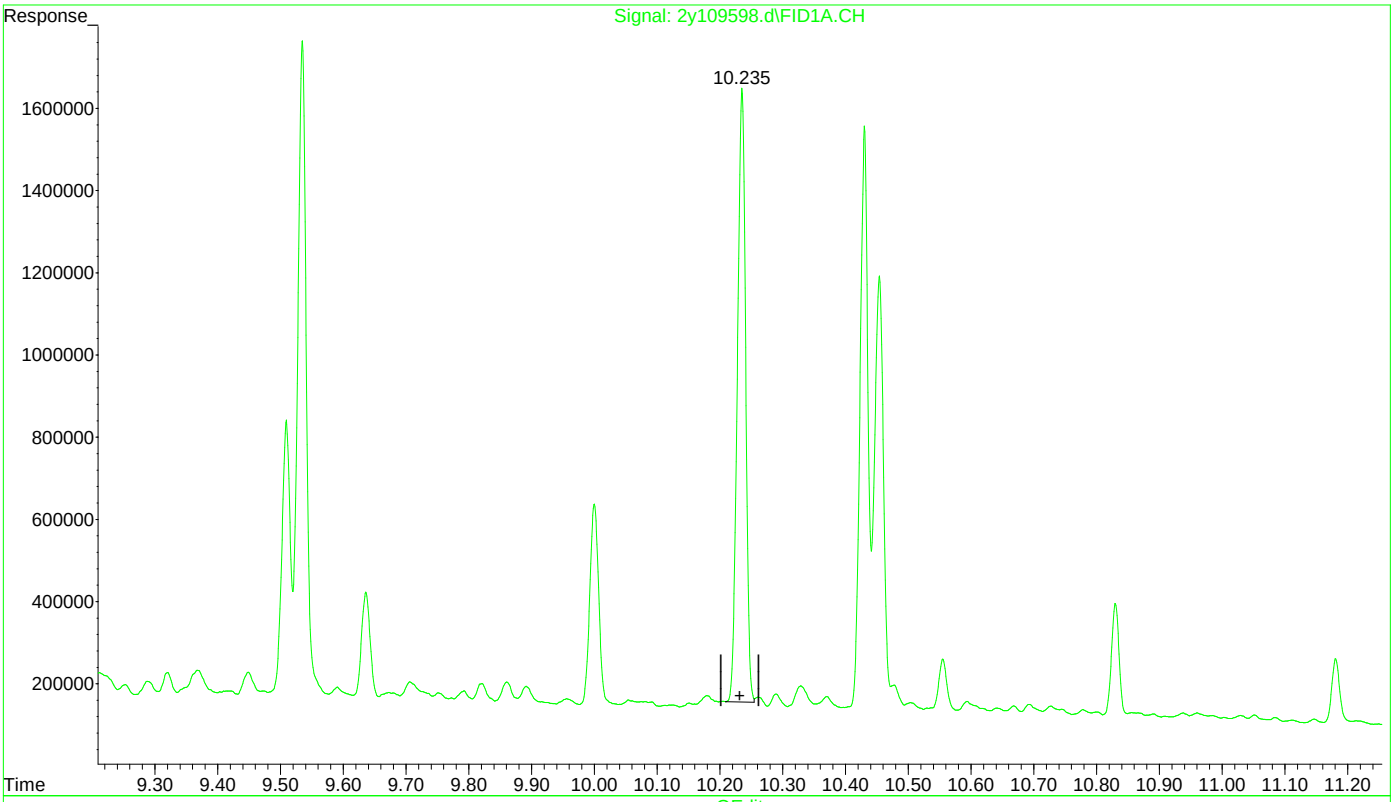
dro2y4195.m Thu Aug 11 03:42:53 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\maryannl\g2y4272\
Data File : 2y109598.d
Signal(s) : FID1A.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4272,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:42:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Thu Aug 11 03:39:31 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



QEdit

(10) 5a-Androstane (S)

10.235min 18.163 PPM m

response 13608682

(+) = Expected Retention Time
dro2y4195.m Thu Aug 11 03:43:02 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/15/22 16:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109607.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:33 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:15:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.533	20174815	18.370	PPM	m
Spiked Amount 50.000		Recovery = 36.74%			
10) S 5a-Androstane	10.234	13306671	17.760	PPM	m
Spiked Amount 50.000		Recovery = 35.52%			
Target Compounds					
1) H TPH-DRO	8.430	575180034	925.126	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.14

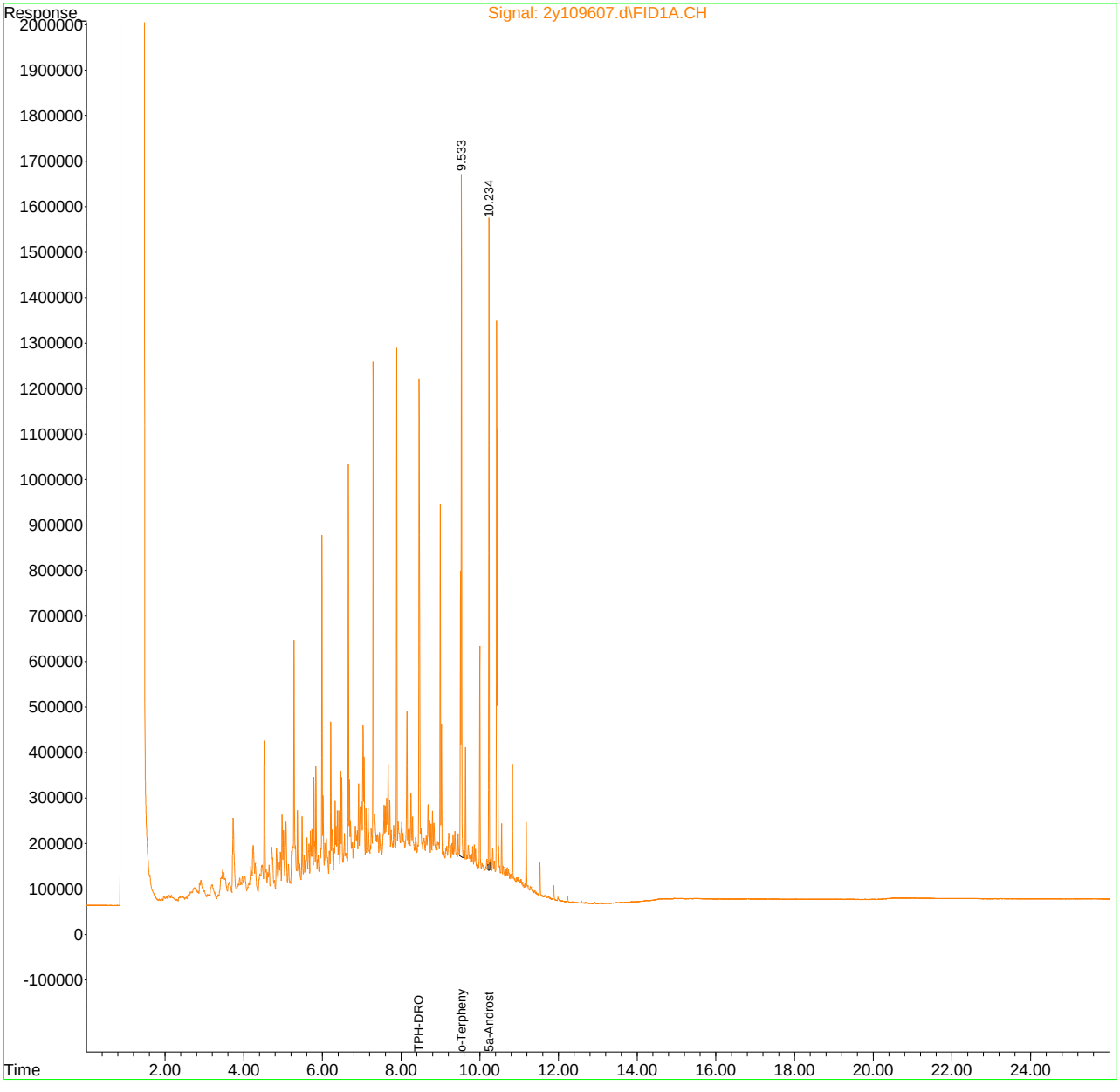
9

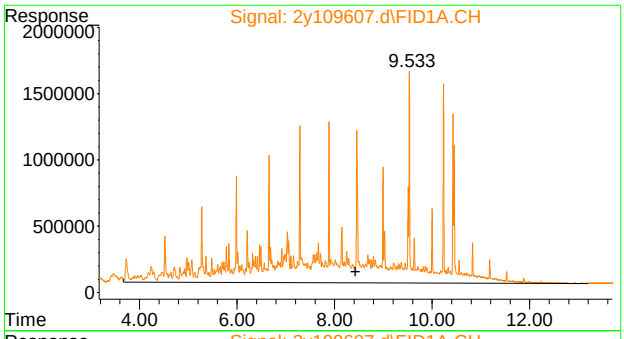
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109607.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:33 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:15:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

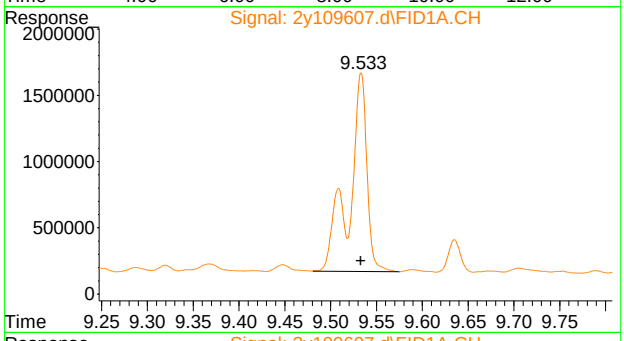
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





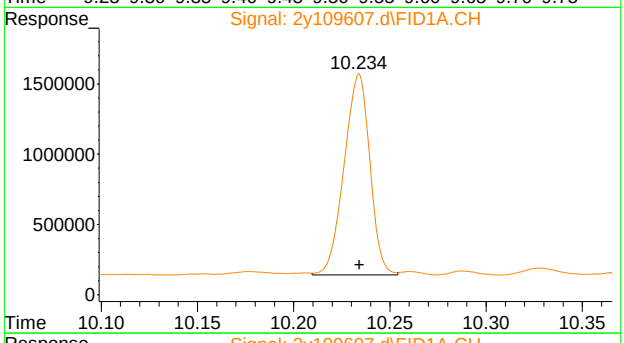
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 575180034
Conc: 925.13 PPM



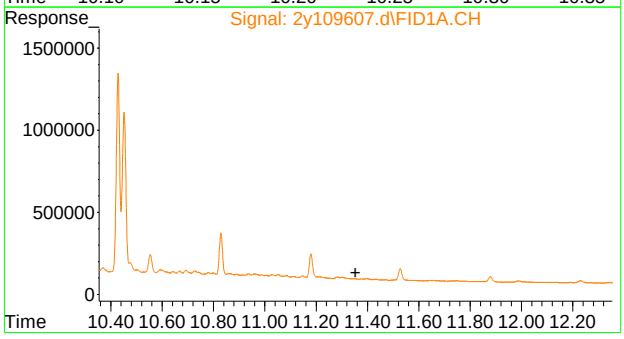
#9 o-Terphenyl

R.T.: 9.533 min
Delta R.T.: 0.000 min
Response: 20174815
Conc: 18.37 PPM m



#10 5a-Androstane

R.T.: 10.234 min
Delta R.T.: 0.000 min
Response: 13306671
Conc: 17.76 PPM m



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.14

9

Manual Integration Approval Summary

Sample Number:	G2Y4273-CC4195	**Method:**	SW846 8015D
Lab FileID:	2Y109607.D	**Analyst approved:**	08/15/22 06:37 Syra Marie Pacheco
Injection Time:	08/14/22 11:33	**Supervisor approved:**	08/15/22 16:27 Gwendolyn Burns

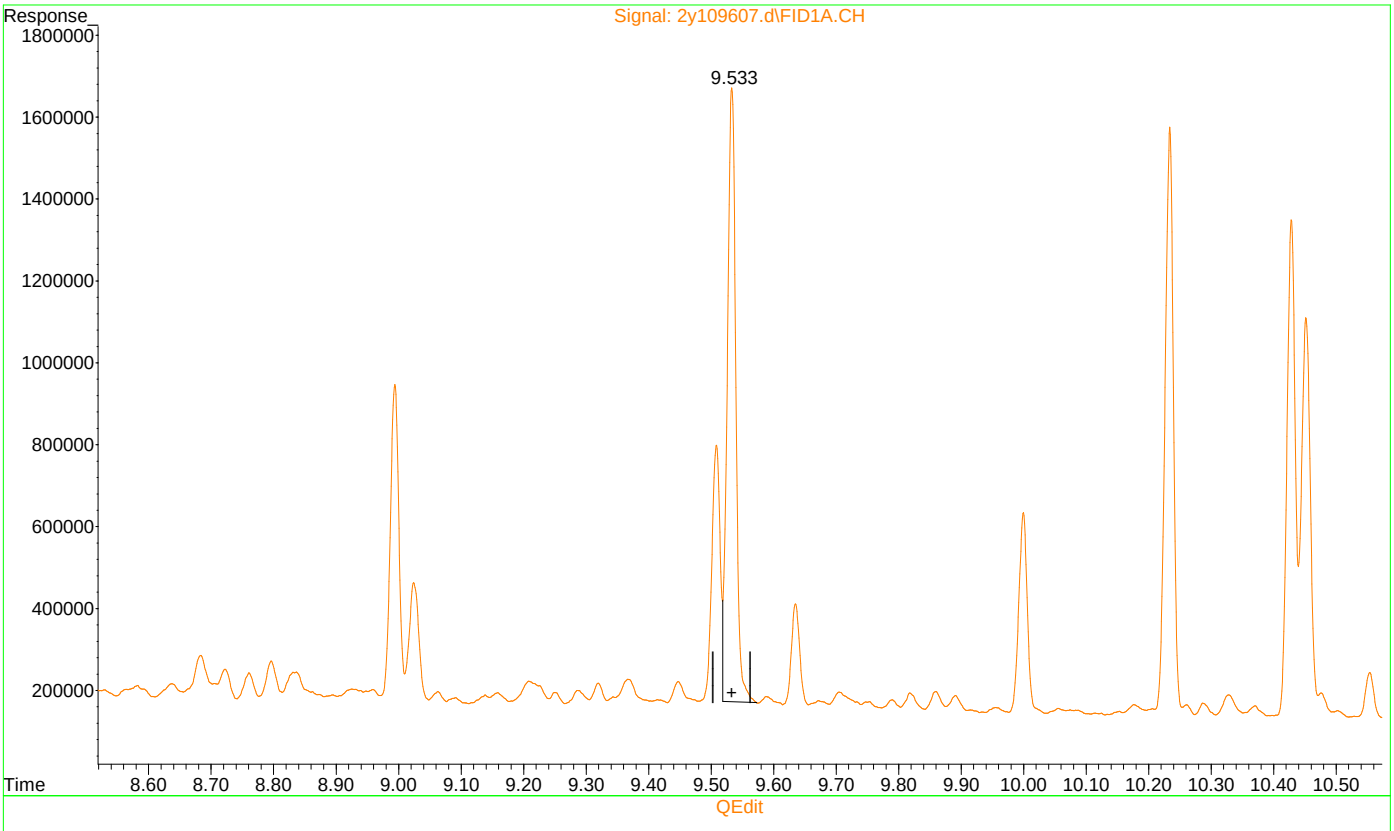
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline
5a-Androstane	438-22-2	1	10.23	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109607.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:33 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:14:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.533min 13.061 PPM

response 14343813

(+) = Expected Retention Time

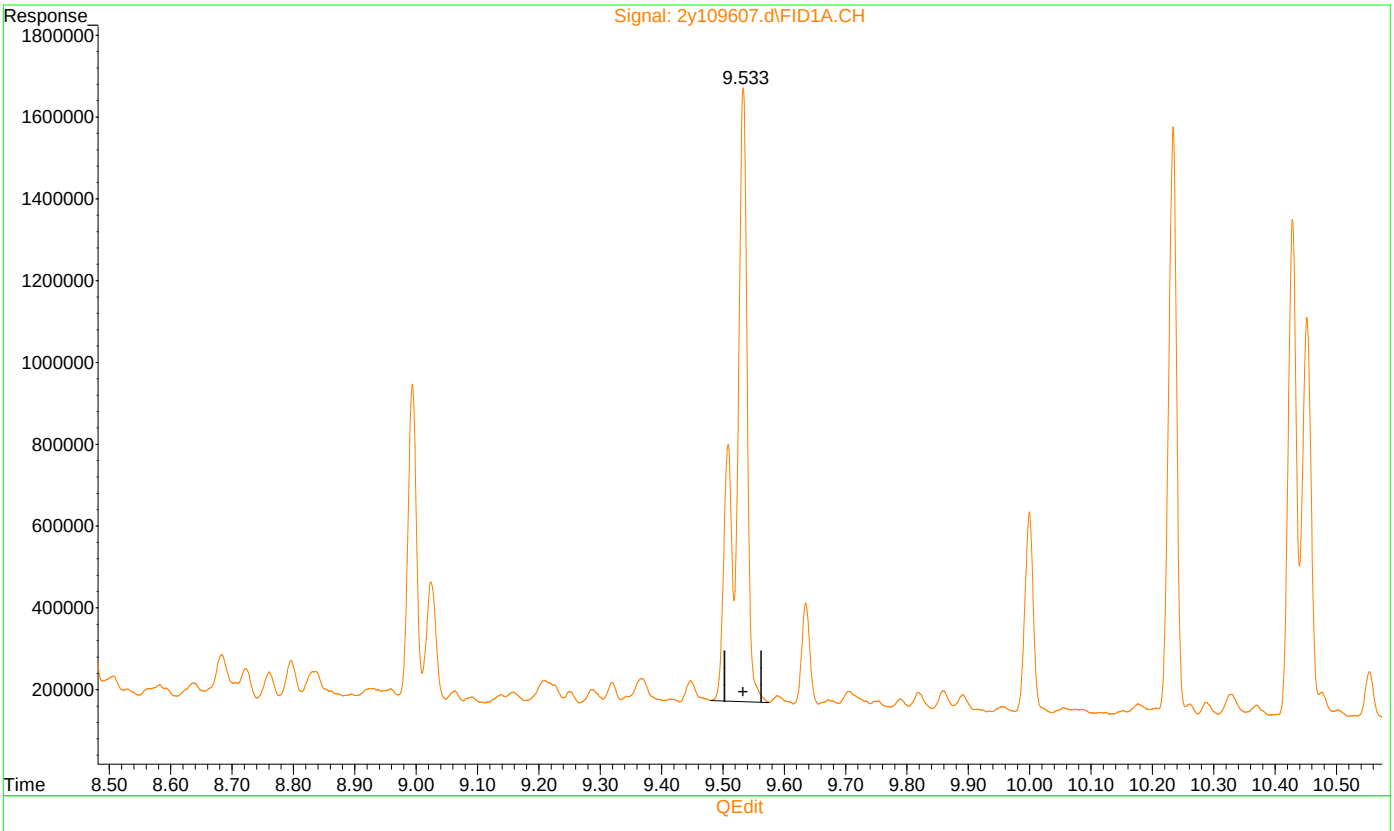
DRO2Y4195.M Mon Aug 15 06:15:16 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109607.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:33 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:14:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.533min 18.370 PPM m

response 20174815

(+) = Expected Retention Time

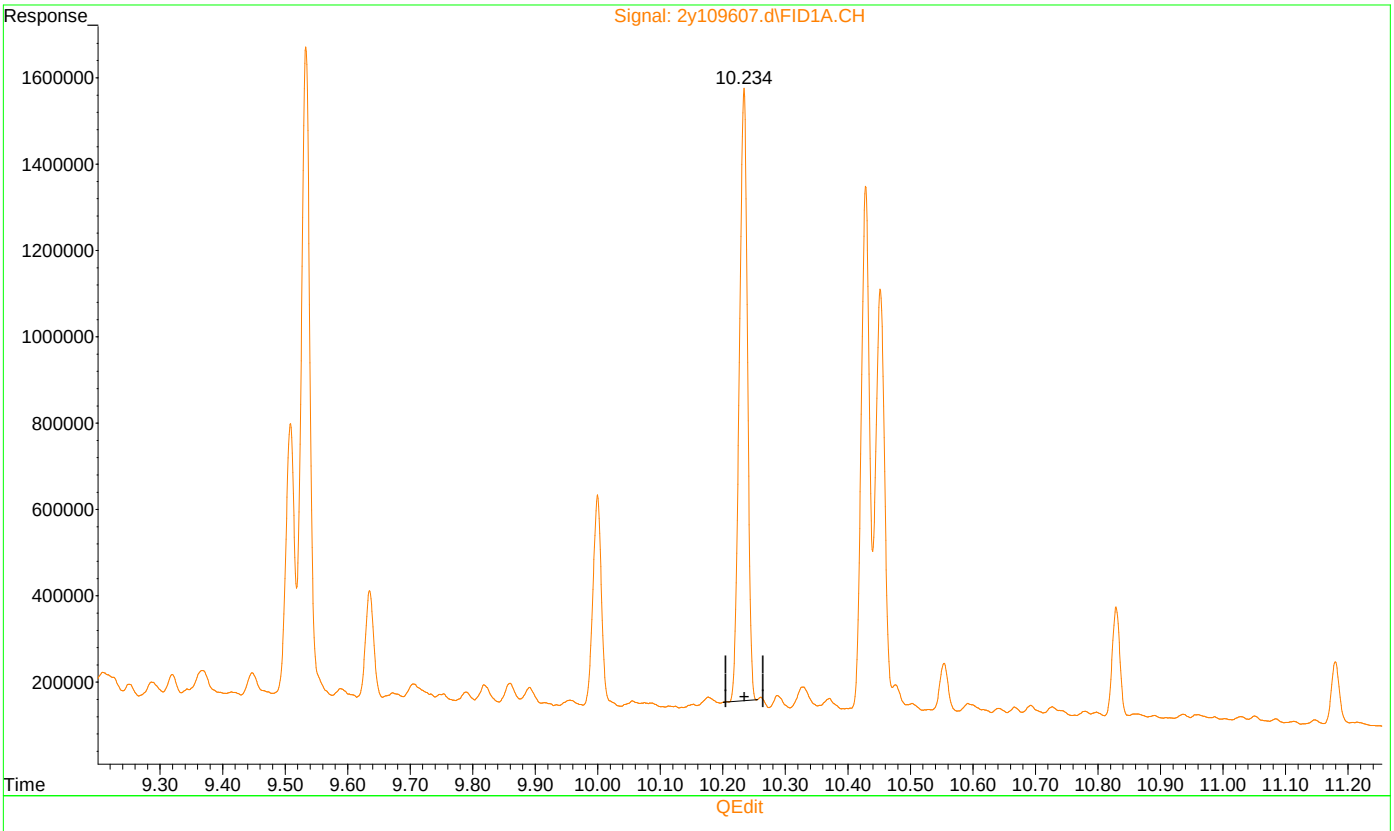
DRO2Y4195.M Mon Aug 15 06:15:24 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109607.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:33 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:14:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.234min 17.201 PPM

response 12887797

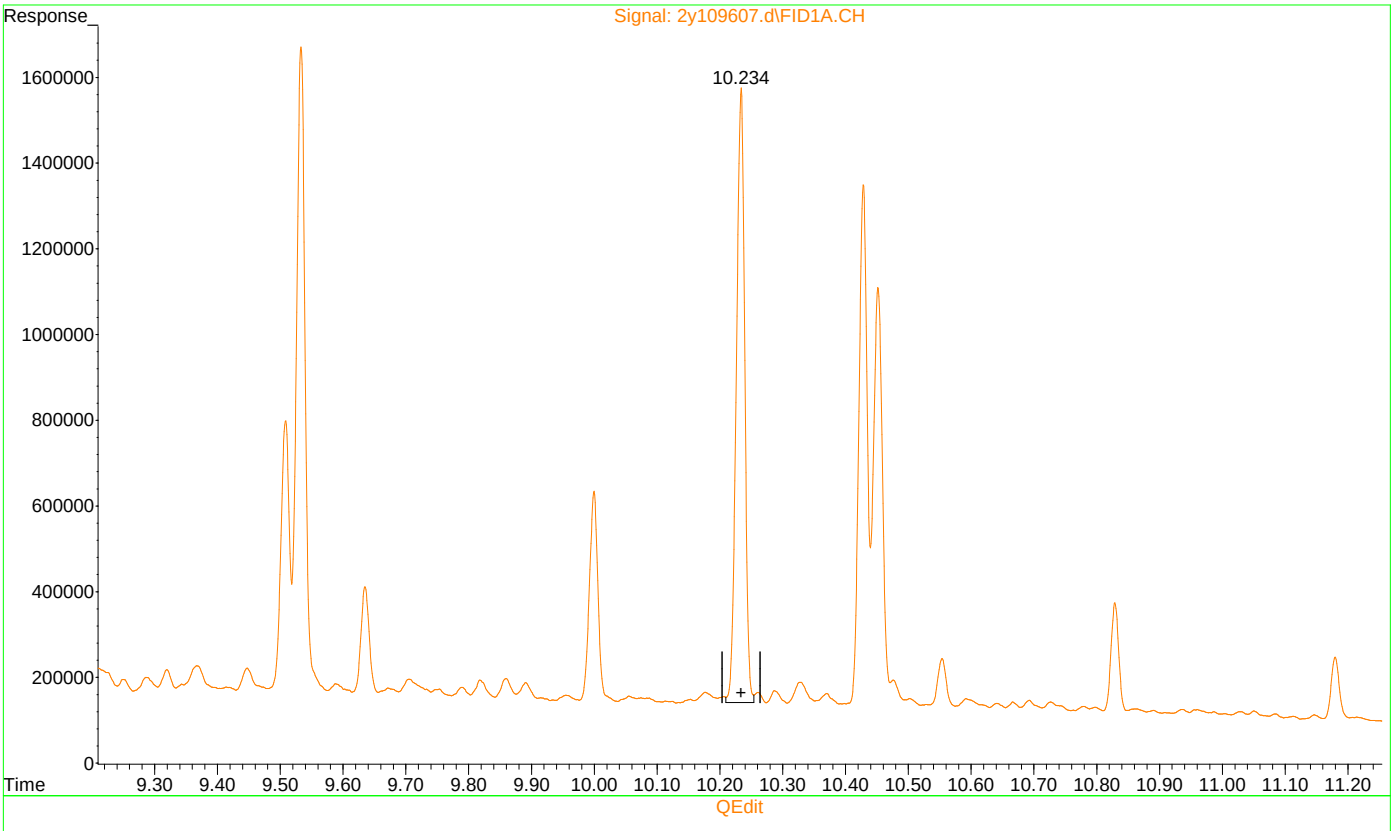
(+) = Expected Retention Time
DRO2Y4195.M Mon Aug 15 06:15:26 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109607.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:33 am
Operator : thomasl
Sample : cc4195-1000
Misc : op41170,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:14:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y4195.M
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.234min 17.760 PPM m

response 13306671

(+) = Expected Retention Time

DRO2Y4195.M Mon Aug 15 06:15:40 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/15/22 16:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109618.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 6:12 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:27:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.529	10163285	9.254	PPM	m
Spiked Amount 50.000		Recovery =	18.51%		
10) S 5a-Androstane	10.228	6688916	8.928	PPM	m
Spiked Amount 50.000		Recovery =	17.86%		
Target Compounds					
1) H TPH-DRO	8.430	291074191	468.167	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.15

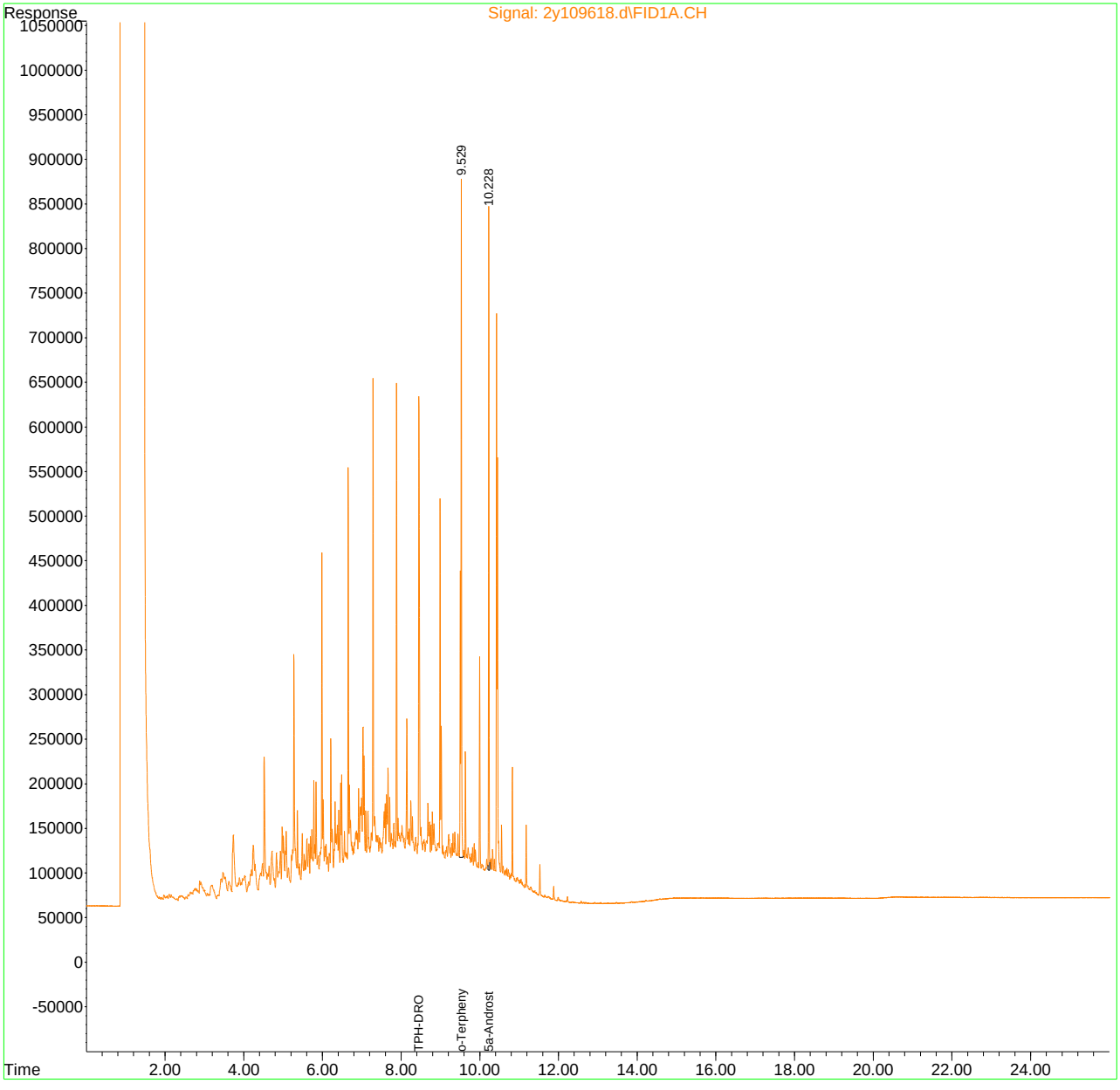
9

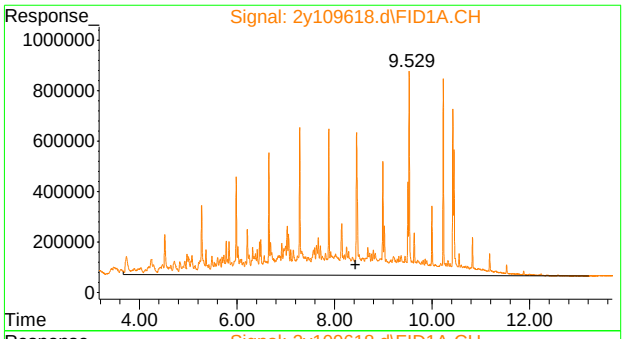
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109618.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 6:12 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:27:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

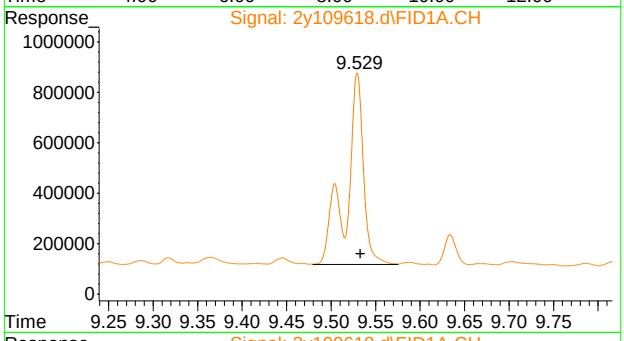
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





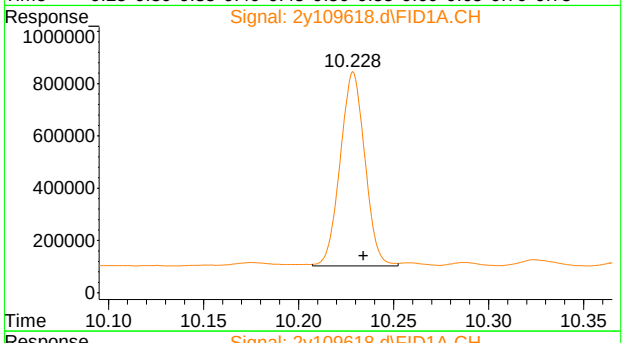
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 291074191
Conc: 468.17 PPM



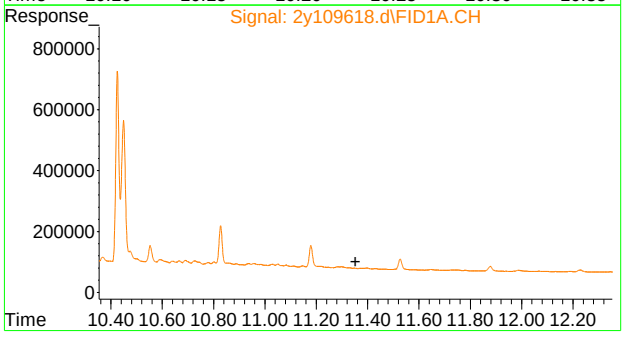
#9 o-Terphenyl

R.T.: 9.529 min
Delta R.T.: -0.004 min
Response: 10163285
Conc: 9.25 PPM m



#10 5a-Androstane

R.T.: 10.228 min
Delta R.T.: -0.006 min
Response: 6688916
Conc: 8.93 PPM m



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.15

9

Manual Integration Approval Summary

Sample Number:	G2Y4273-CC4195	**Method:**	SW846 8015D
Lab FileID:	2Y109618.D	**Analyst approved:**	08/15/22 06:37 Syra Marie Pacheco
Injection Time:	08/14/22 18:12	**Supervisor approved:**	08/15/22 16:27 Gwendolyn Burns

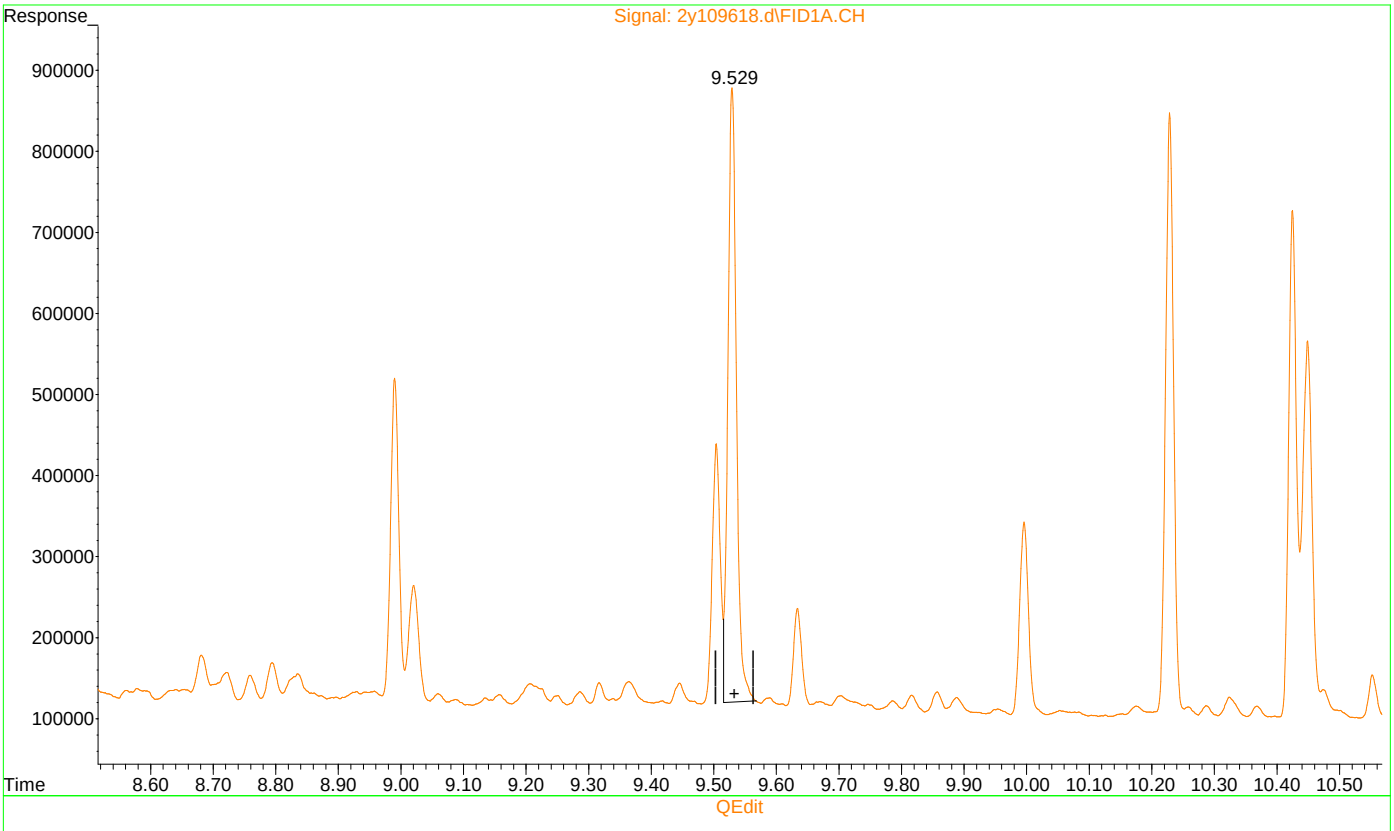
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline
5a-Androstane	438-22-2	1	10.23	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109618.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 6:12 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:17:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.529min 6.537 PPM

response 7179164

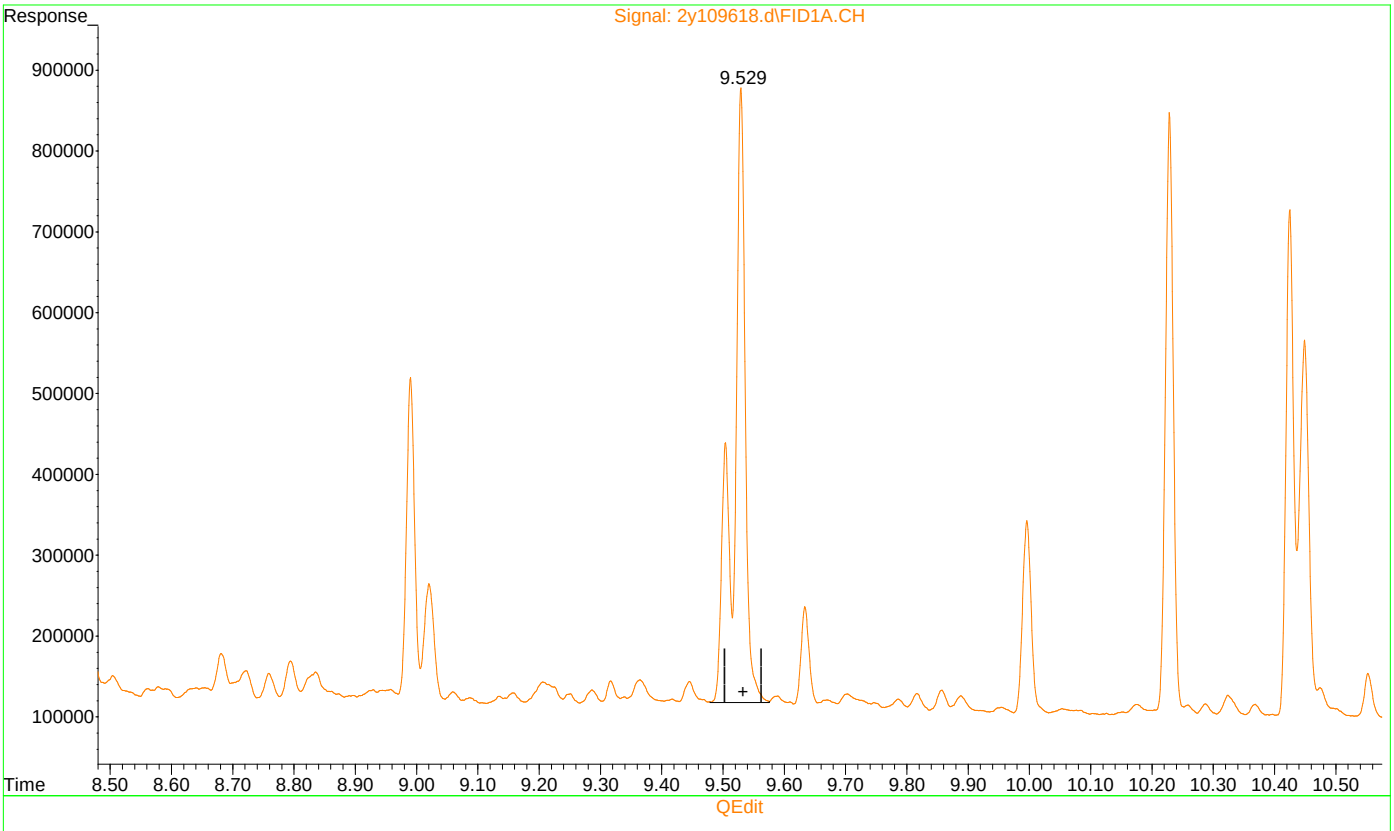
(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:26:45 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109618.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 6:12 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:17:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.529min 9.254 PPM m

response 10163285

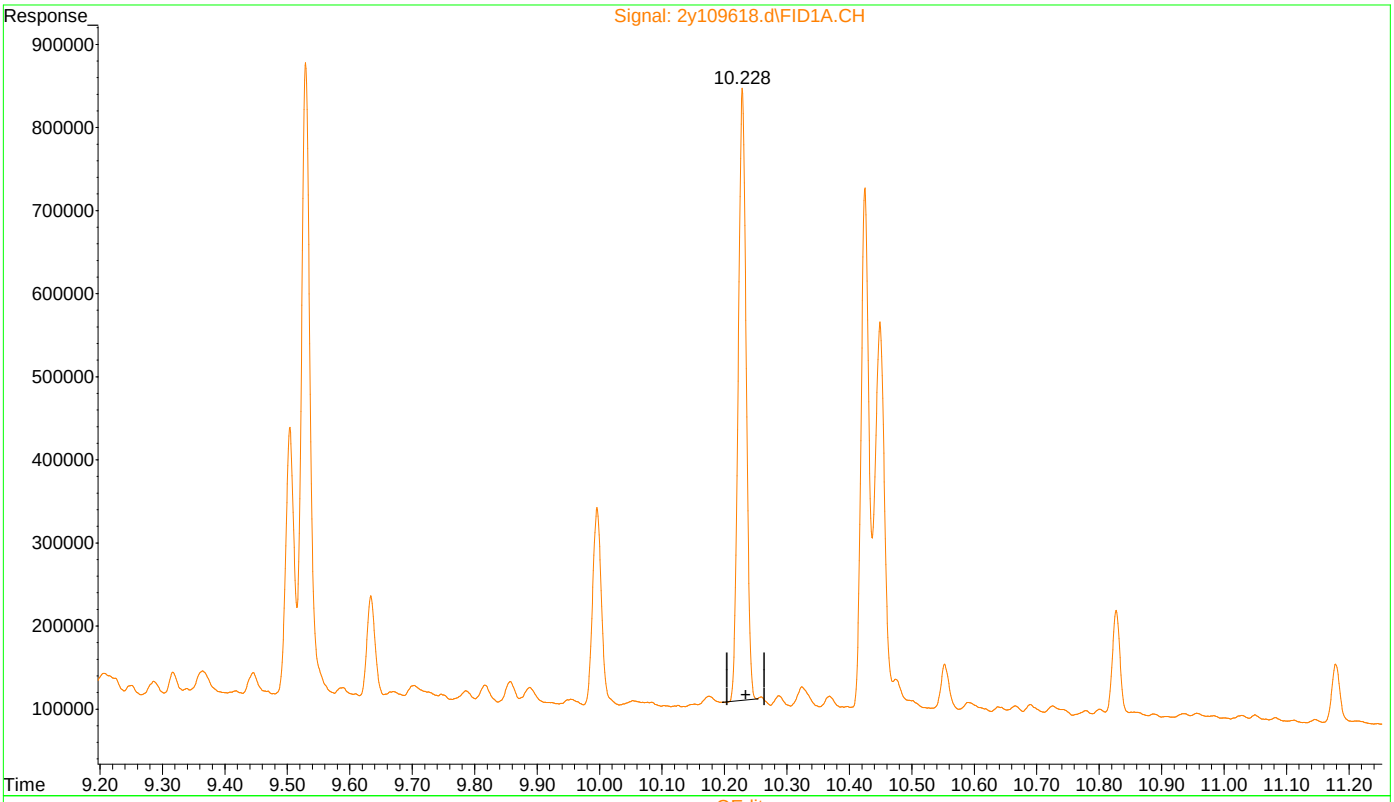
(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:26:56 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109618.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 6:12 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:17:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.229min 8.659 PPM

response 6488052

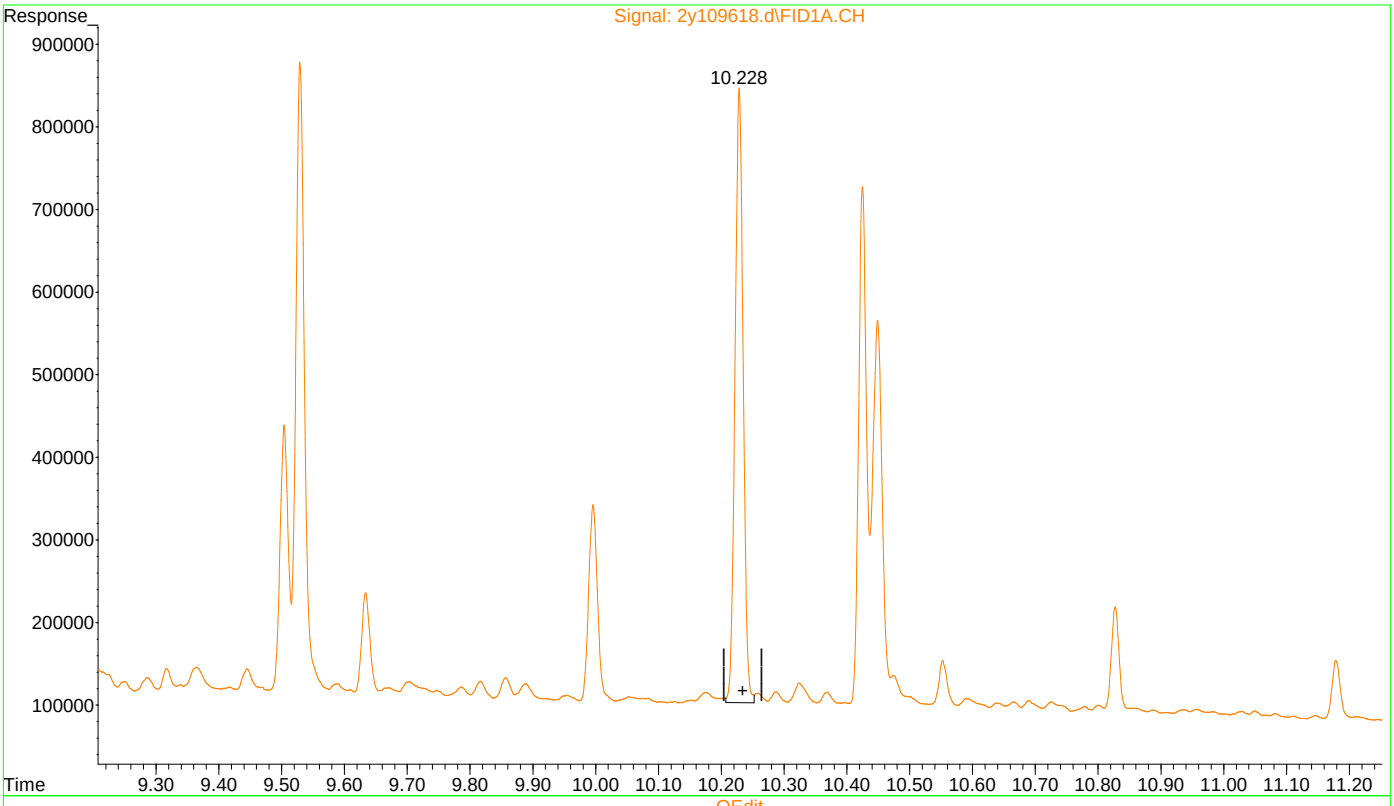
(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:26:58 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109618.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 6:12 pm
Operator : thomasl
Sample : cc4195-500
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:17:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(10) 5a-Androstane (S)

10.228min 8.928 PPM m

response 6688916

(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:27:14 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/15/22 16:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109628.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:45 pm
Operator : thomasl
Sample : cc4195-1000
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:34:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.532	20025068	18.234	PPM	m
Spiked Amount 50.000		Recovery =	36.47%		
10) S 5a-Androstane	10.231	13121125	17.512	PPM	
Spiked Amount 50.000		Recovery =	35.02%		
Target Compounds					
1) H TPH-DRO	8.430	574520148	924.064	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.16

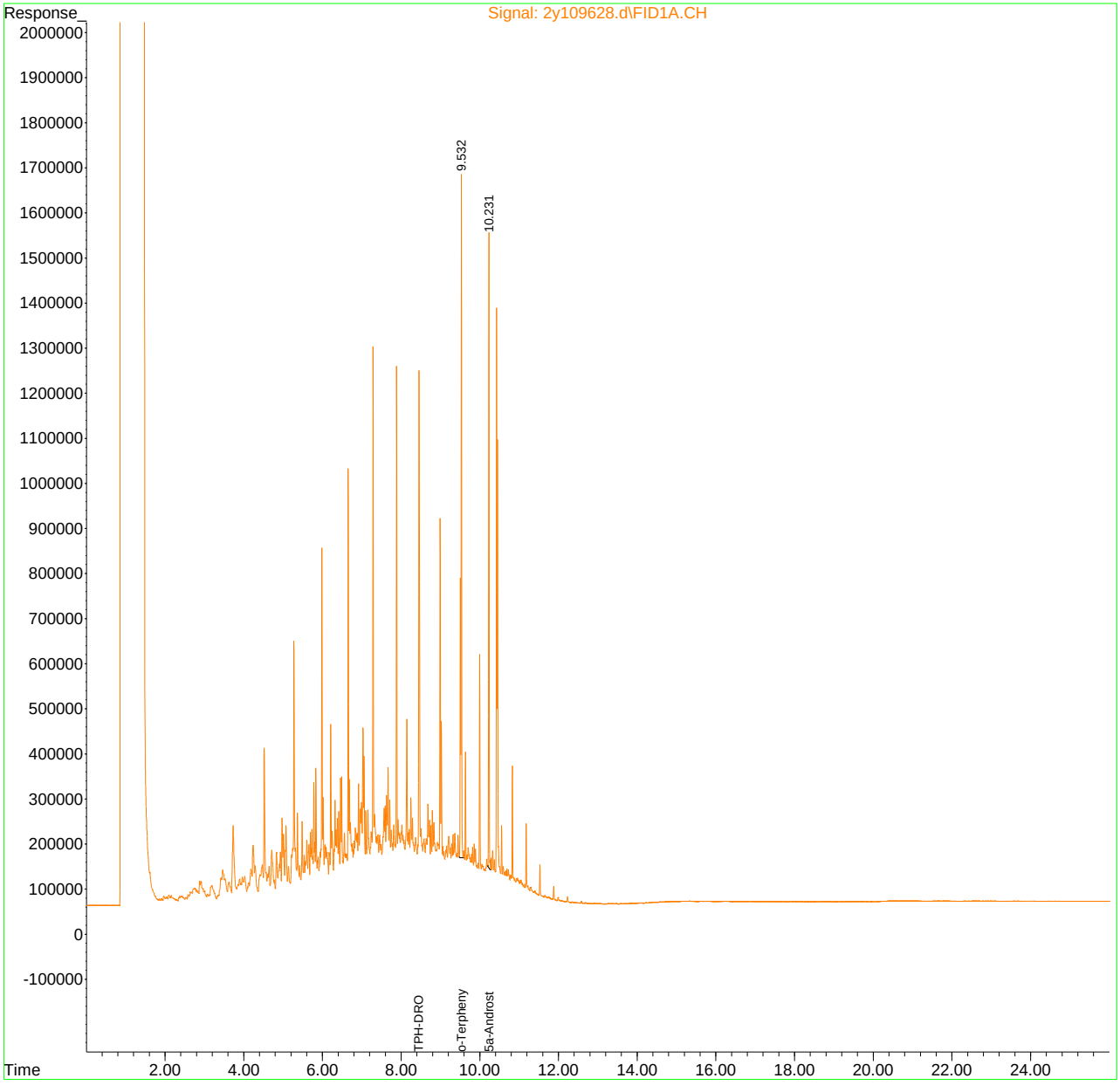
9

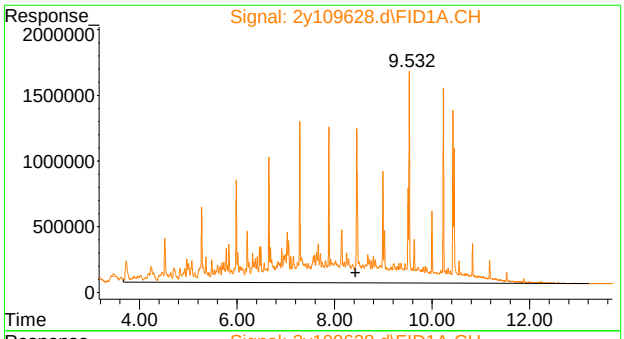
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109628.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:45 pm
Operator : thomasl
Sample : cc4195-1000
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:34:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

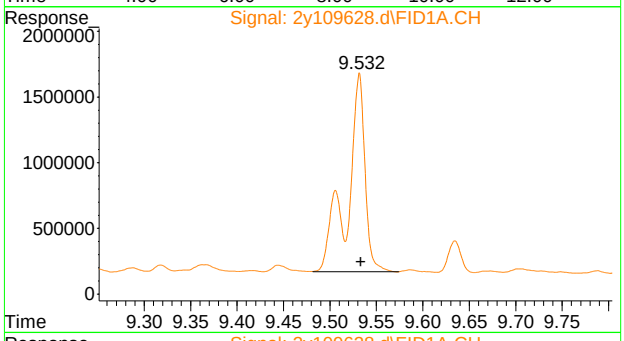
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





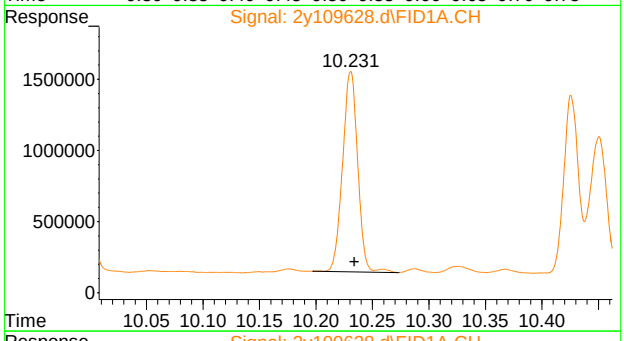
#1 TPH-DRO

R.T.: 8.430 min
Delta R.T.: 0.000 min
Response: 574520148
Conc: 924.06 PPM



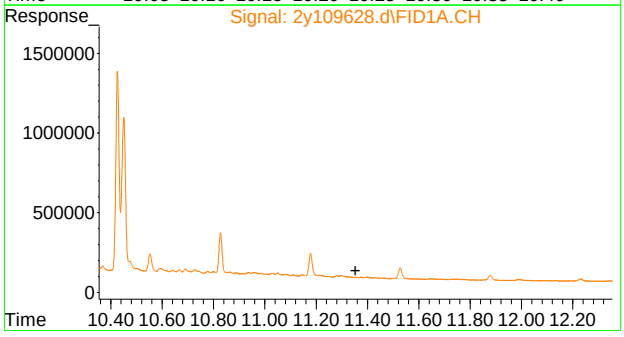
#9 o-Terphenyl

R.T.: 9.532 min
Delta R.T.: -0.001 min
Response: 20025068
Conc: 18.23 PPM m



#10 5a-Androstane

R.T.: 10.231 min
Delta R.T.: -0.003 min
Response: 13121125
Conc: 17.51 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Manual Integration Approval Summary

Sample Number:	G2Y4273-CC4195	**Method:**	SW846 8015D
Lab FileID:	2Y109628.D	**Analyst approved:**	08/15/22 06:37 Syra Marie Pacheco
Injection Time:	08/14/22 23:45	**Supervisor approved:**	08/15/22 16:28 Gwendolyn Burns

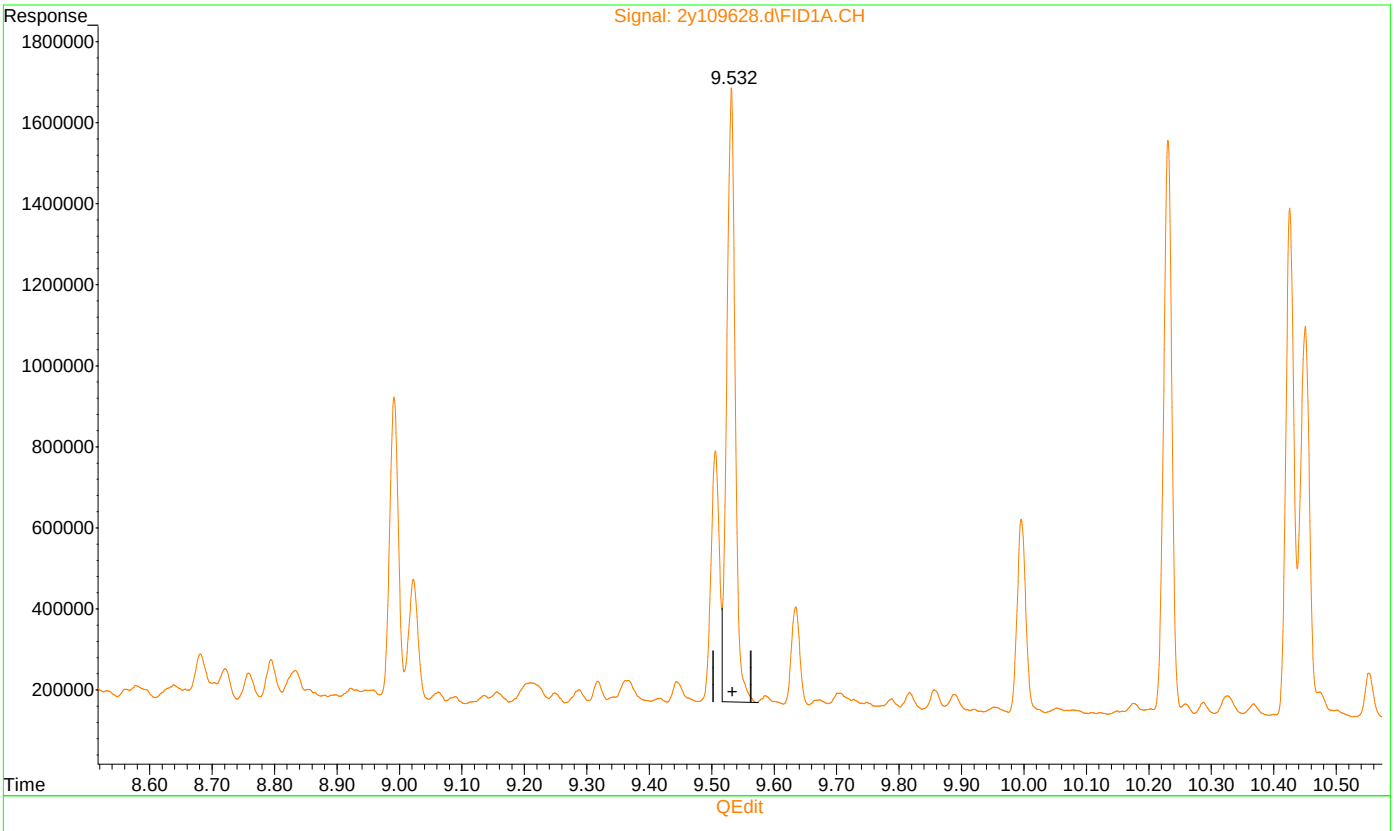
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.53	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109628.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:45 pm
Operator : thomasl
Sample : cc4195-1000
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:18:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.532min 12.986 PPM

response 14261331

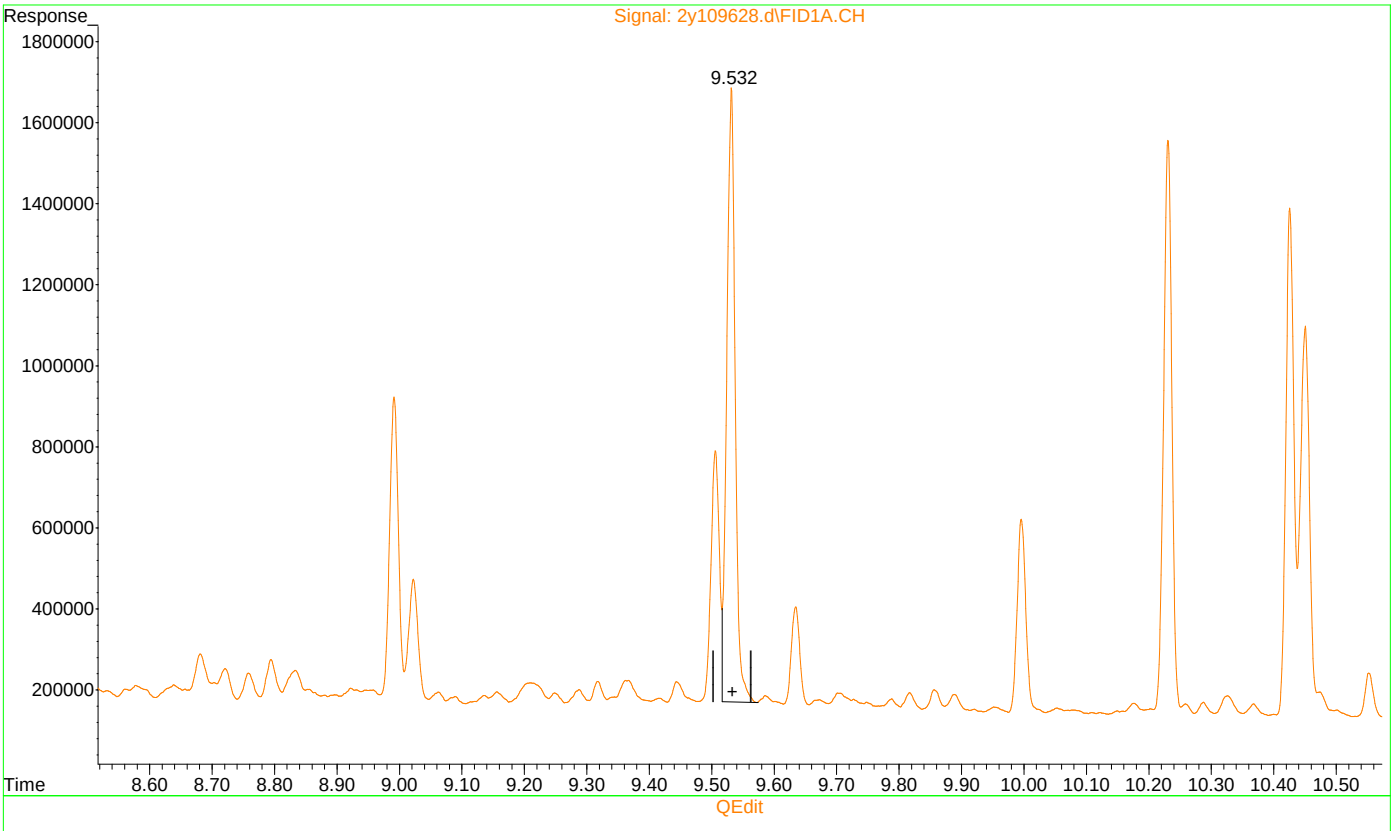
(+) = Expected Retention Time
dro2y4195.m Mon Aug 15 06:34:36 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109628.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:45 pm
Operator : thomasl
Sample : cc4195-1000
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:18:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.532min 12.986 PPM

response 14261331

(+) = Expected Retention Time

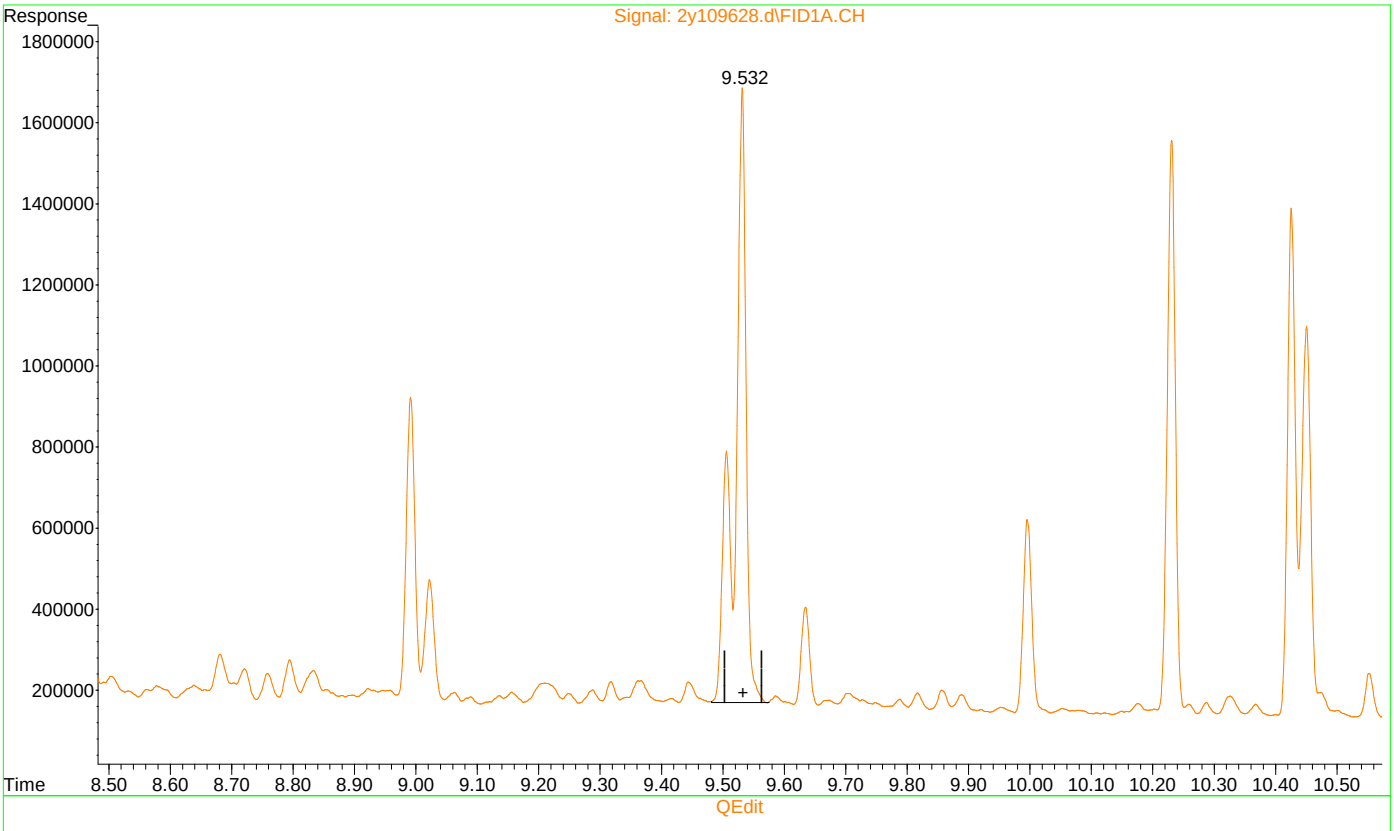
dro2y4195.m Mon Aug 15 06:34:38 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2y4273\
Data File : 2y109628.d
Signal(s) : FID1A.CH
Acq On : 14 Aug 2022 11:45 pm
Operator : thomasl
Sample : cc4195-1000
Misc : op41225,g2y4273,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 15 06:18:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\dro2y4195.m
Quant Title :
QLast Update : Mon Aug 15 06:14:25 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.532min 18.234 PPM m

response 20025068

(+) = Expected Retention Time

dro2y4195.m Mon Aug 15 06:34:45 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84952.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 12:50 pm
Operator : thomasl
Sample : ic3259-25
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 12:00:22 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.439	1310187	0.572 PPM
Spiked Amount 50.000		Recovery =	1.14%
10) S 5a-Androstane	10.132	916421	0.428 PPM
Spiked Amount 50.000		Recovery =	0.86%
Target Compounds			
1) H TPH-DRO	8.250	54695572	31.164 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.17

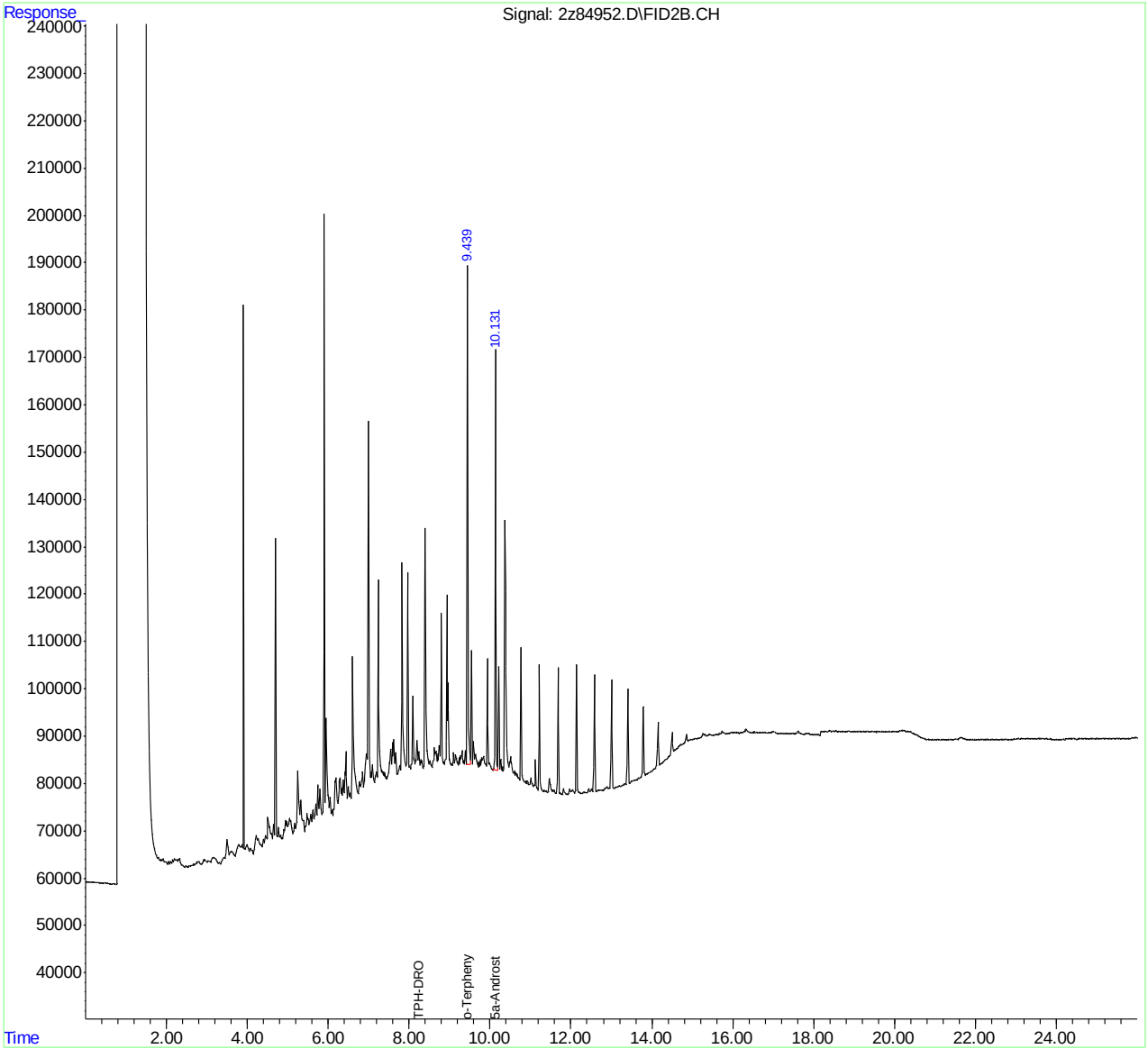
9

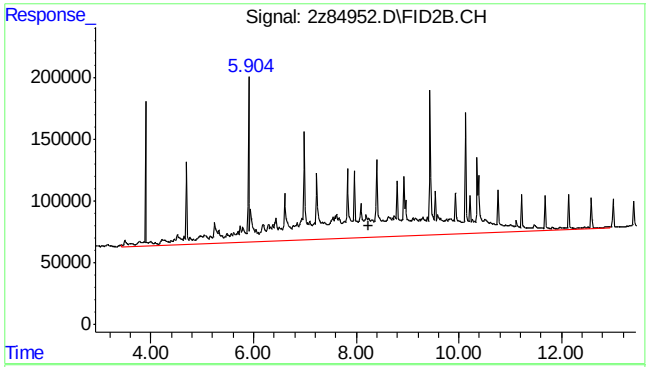
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84952.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 12:50 pm
Operator : thomasl
Sample : ic3259-25
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 12:00:22 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

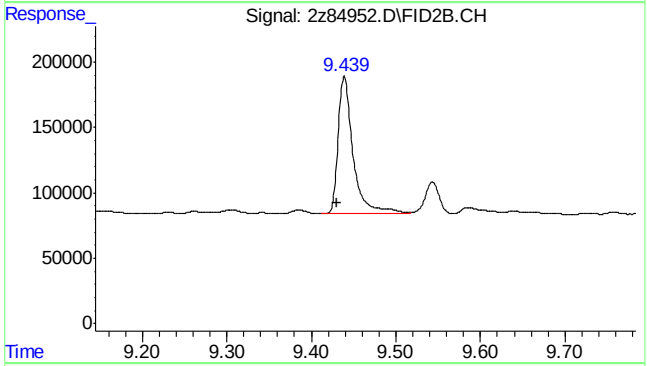
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





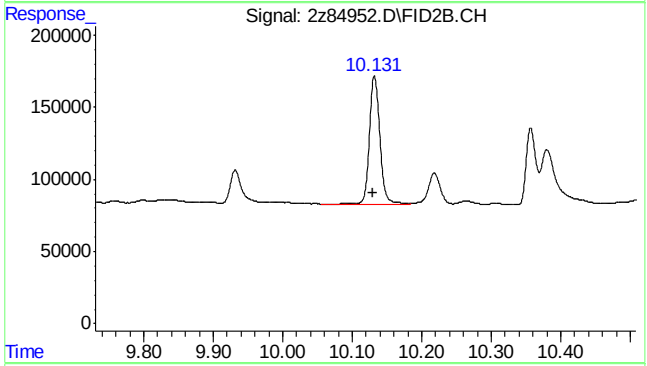
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 54695572
Conc: 31.16 PPM m



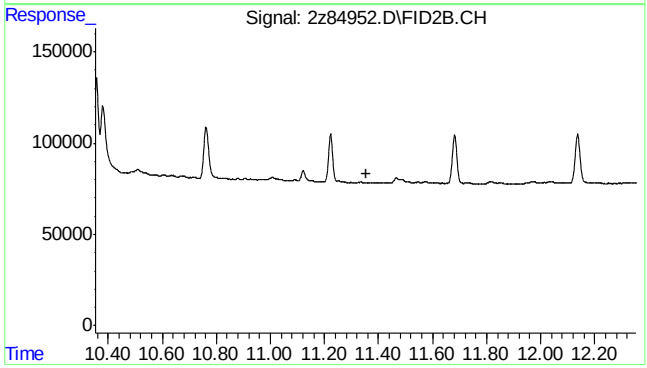
#9 o-Terphenyl

R.T.: 9.439 min
Delta R.T.: 0.008 min
Response: 1310187
Conc: 0.57 PPM



#10 5a-Androstane

R.T.: 10.132 min
Delta R.T.: 0.003 min
Response: 916421
Conc: 0.43 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.17

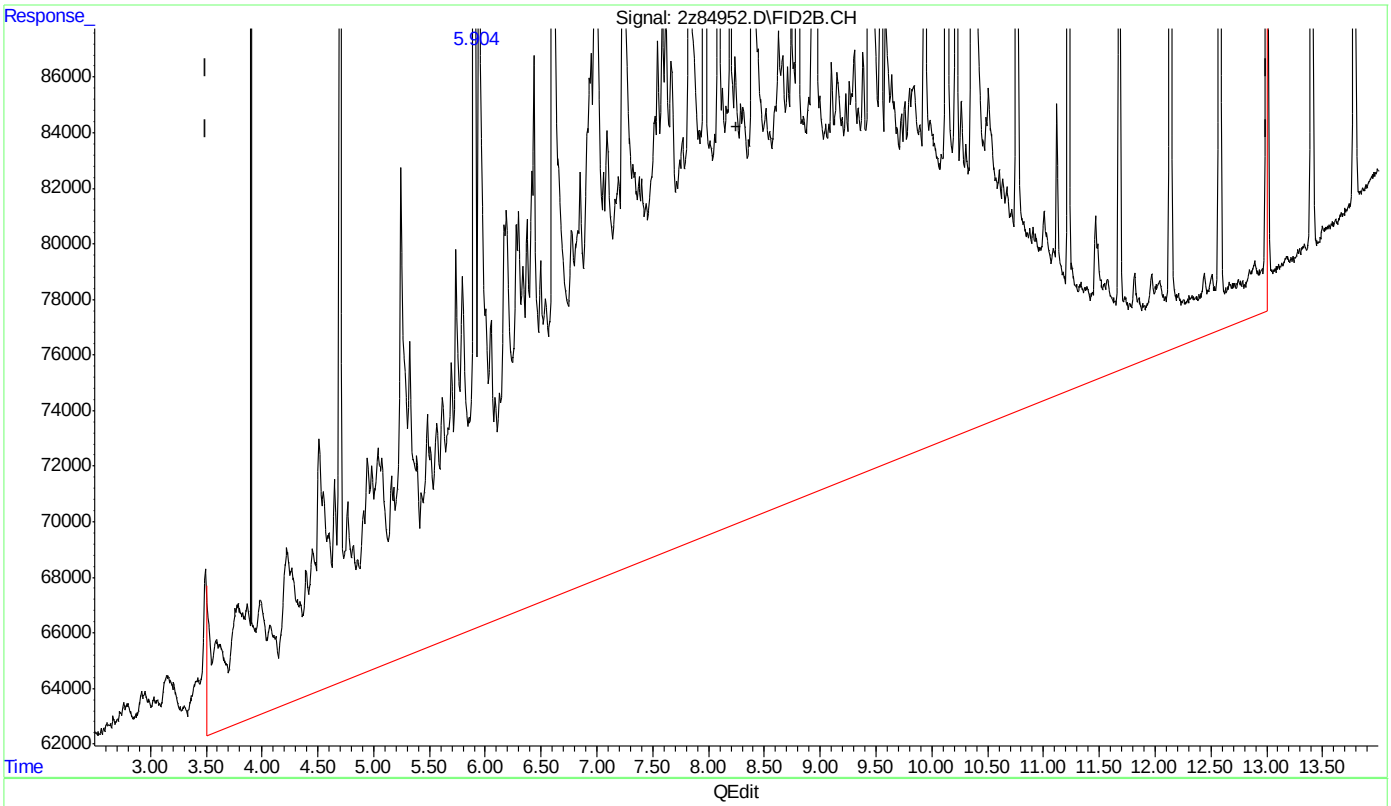
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84952.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 12:50 pm
Operator : thomasl
Sample : ic3259-25
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:41:49 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(1) TPH-DRO (H)

8.250min 33.978PPM m

response 59633049

(+) = Expected Retention Time

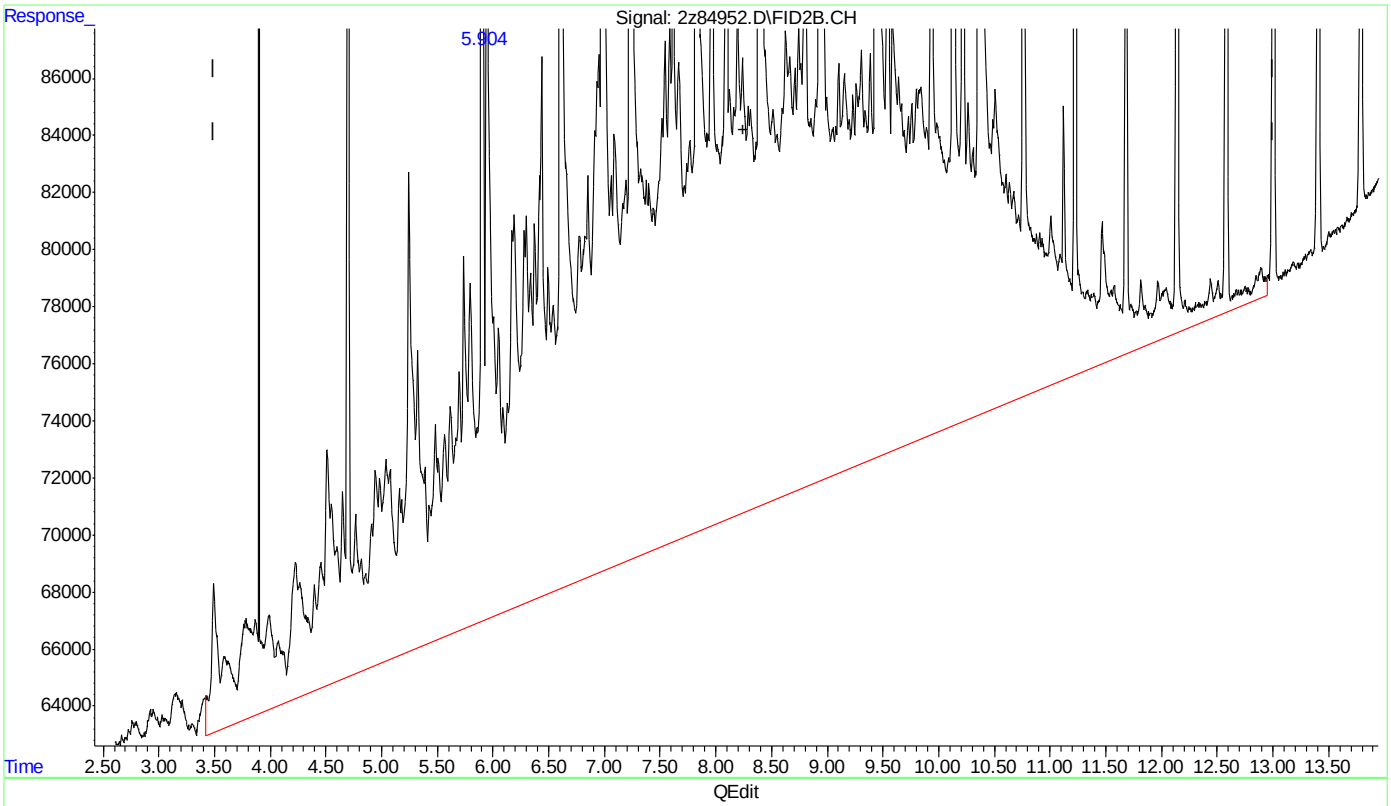
DRO2Z3259.M Wed Nov 24 11:58:20 2021

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84952.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 12:50 pm
Operator : thomasl
Sample : ic3259-25
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 12:00:22 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(1) TPH-DRO (H)

8.250min 31.164PPM m

response 54695572

(+) = Expected Retention Time

DRO2Z3259.M Wed Nov 24 12:00:59 2021

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84954.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 1:56 pm
Operator : thomasl
Sample : ic3259-100
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 58 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:47:51 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.432	5206200	2.272 PPM
Spiked Amount 50.000		Recovery =	4.54%
10) S 5a-Androstane	10.128	3759848	1.757 PPM
Spiked Amount 50.000		Recovery =	3.51%
Target Compounds			
1) H TPH-DRO	8.250	161673991	92.118 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.18

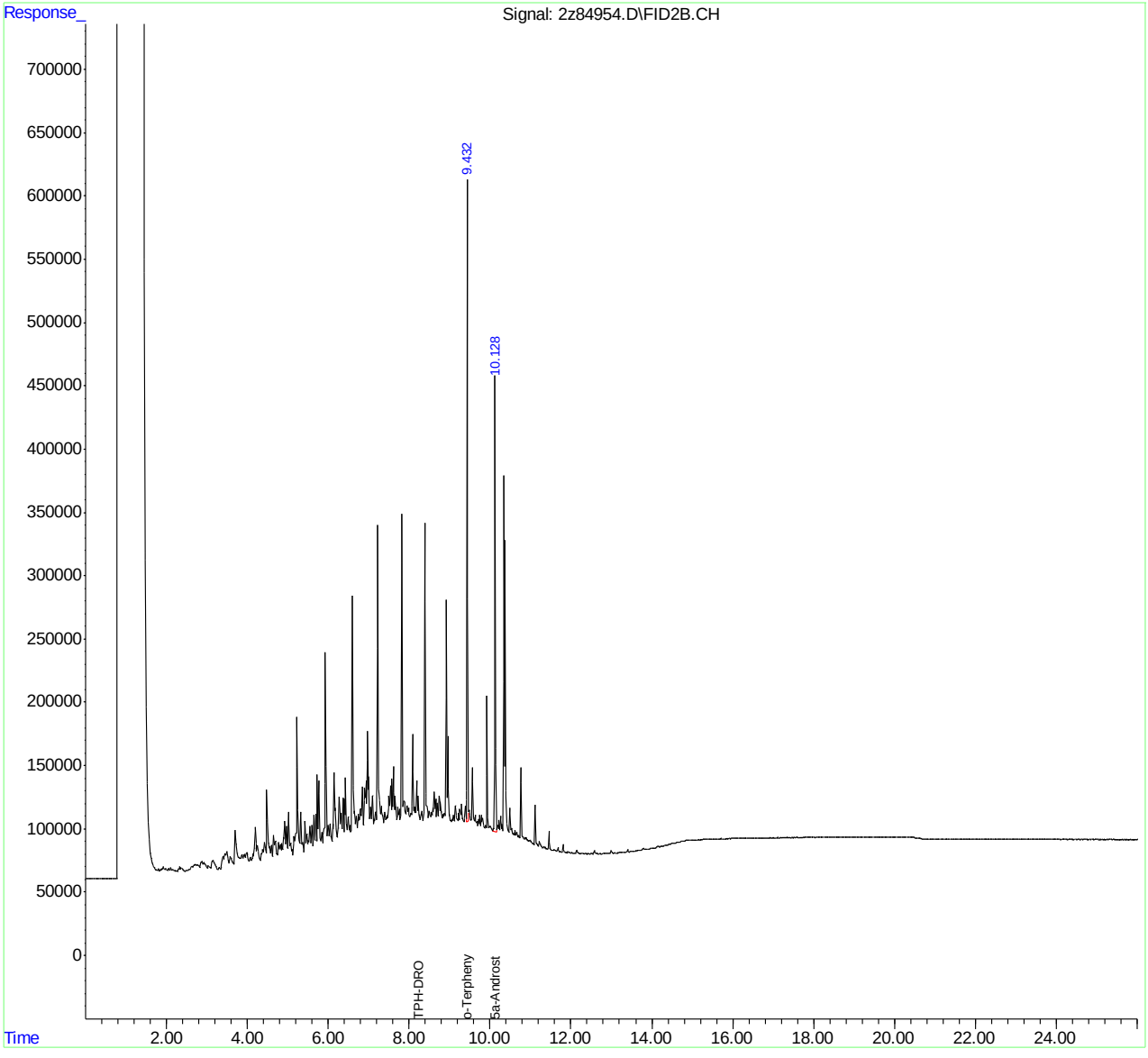
9

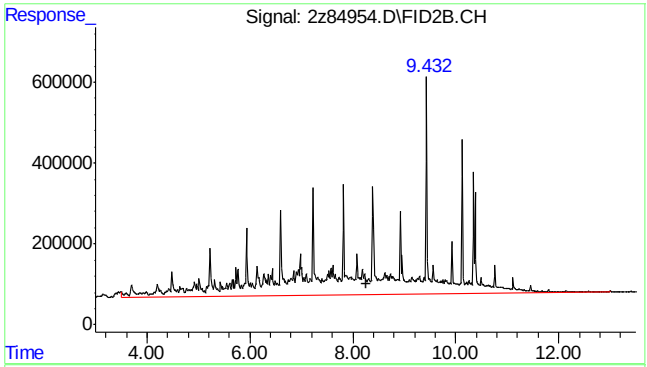
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84954.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 1:56 pm
Operator : thomasl
Sample : ic3259-100
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 58 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:47:51 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

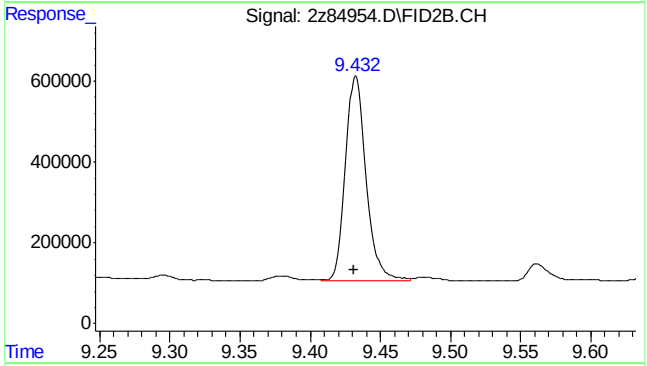
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





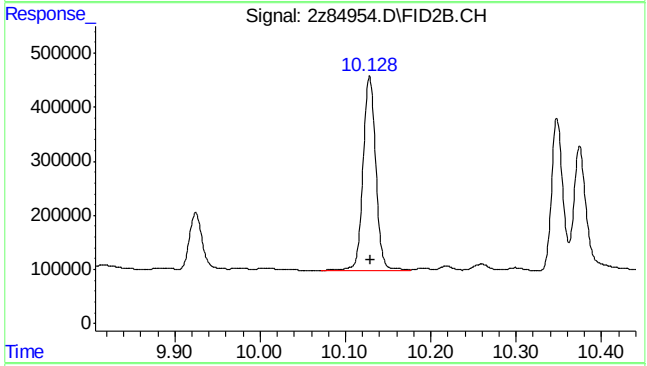
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 161673991
Conc: 92.12 PPM m



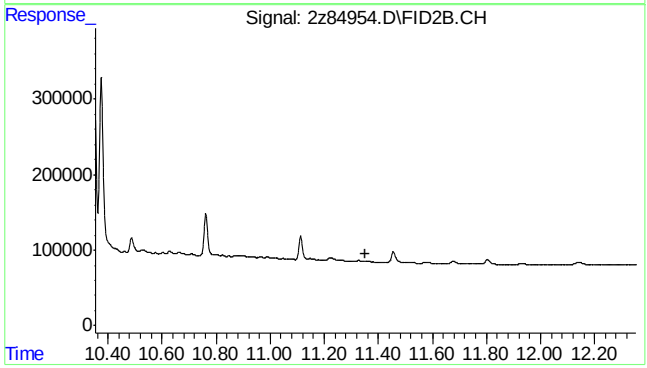
#9 o-Terphenyl

R.T.: 9.432 min
Delta R.T.: 0.002 min
Response: 5206200
Conc: 2.27 PPM



#10 5a-Androstane

R.T.: 10.128 min
Delta R.T.: 0.000 min
Response: 3759848
Conc: 1.76 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84955.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 2:30 pm
Operator : thomasl
Sample : ic3259-250
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 59 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:49:26 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.430	12971377	5.660 PPM
Spiked Amount 50.000		Recovery =	11.32%
10) S 5a-Androstane	10.129	9305785	4.348 PPM
Spiked Amount 50.000		Recovery =	8.70%
Target Compounds			
1) H TPH-DRO	8.250	379909214	216.464 PPM

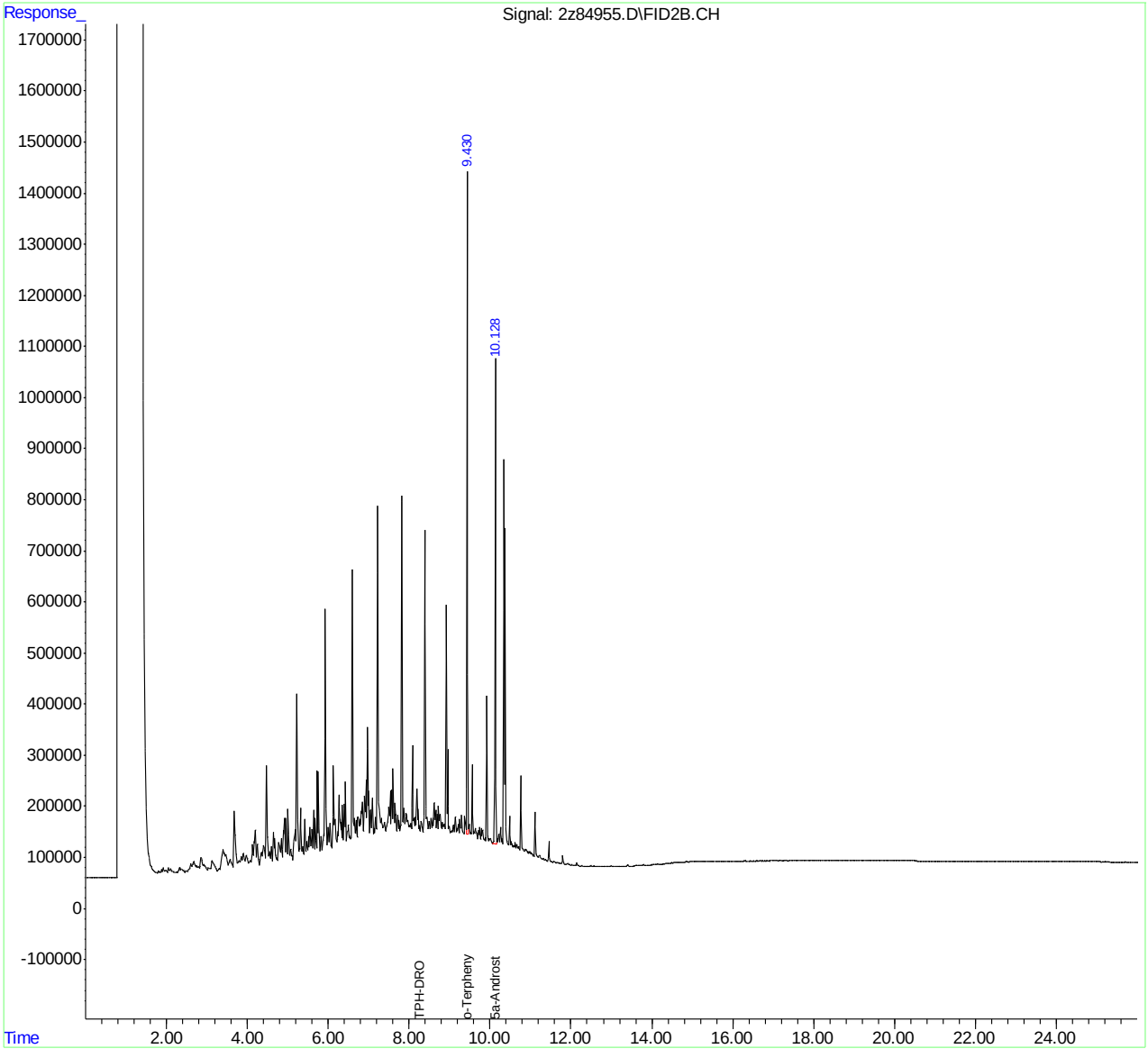
(f)=RT Delta > 1/2 Window (m)=manual int.

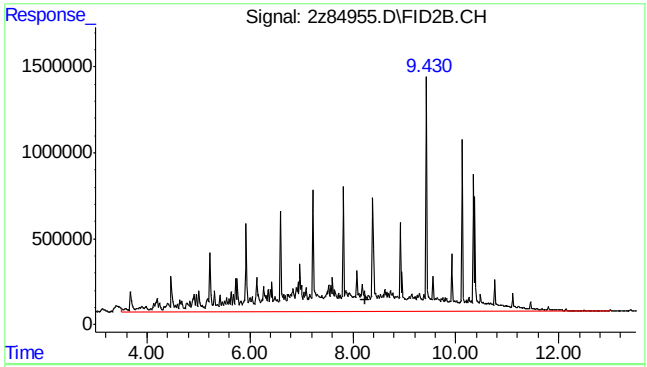
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84955.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 2:30 pm
Operator : thomasl
Sample : ic3259-250
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 59 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:49:26 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

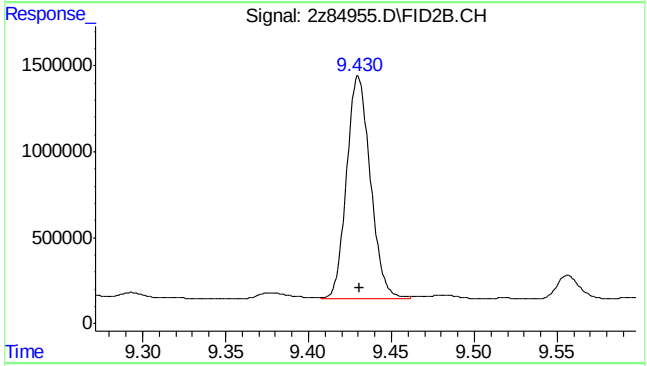
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





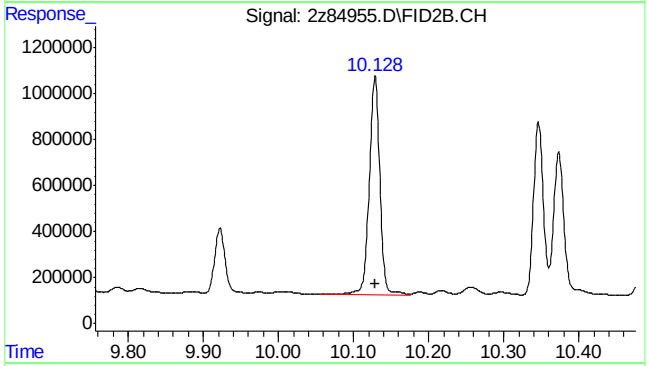
#1 TPH-DRO

```
      R.T.:    8.250 min
Delta R.T.:    0.000 min
  Response: 379909214
      Conc: 216.46 PPM m
```



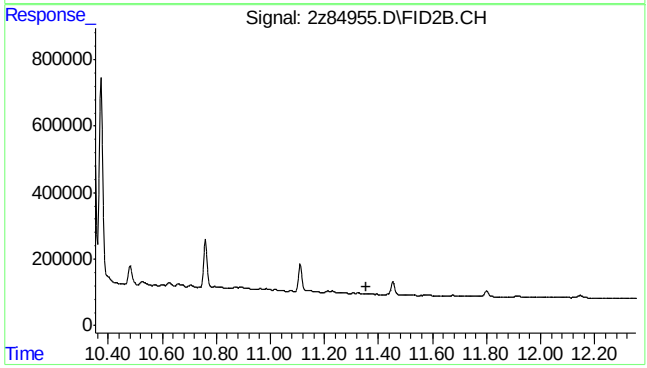
#9 o-Terphenyl

```
      R.T.:    9.430 min
Delta R.T.:    0.000 min
  Response:  12971377
      Conc:   5.66 PPM
```



#10 5a-Androstane

```
      R.T.:   10.129 min
Delta R.T.:    0.000 min
  Response:   9305785
      Conc:   4.35 PPM
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:   N.D.
```

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2z84956.d
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 3:03 pm
Operator : thomasl
Sample : ic3259-500
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 60 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:50:21 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.431	25754196	11.238 PPM
Spiked Amount 50.000		Recovery =	22.48%
10) S 5a-Androstane	10.129	18590947	8.686 PPM
Spiked Amount 50.000		Recovery =	17.37%
Target Compounds			
1) H TPH-DRO	8.250	740858422	422.125 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.20

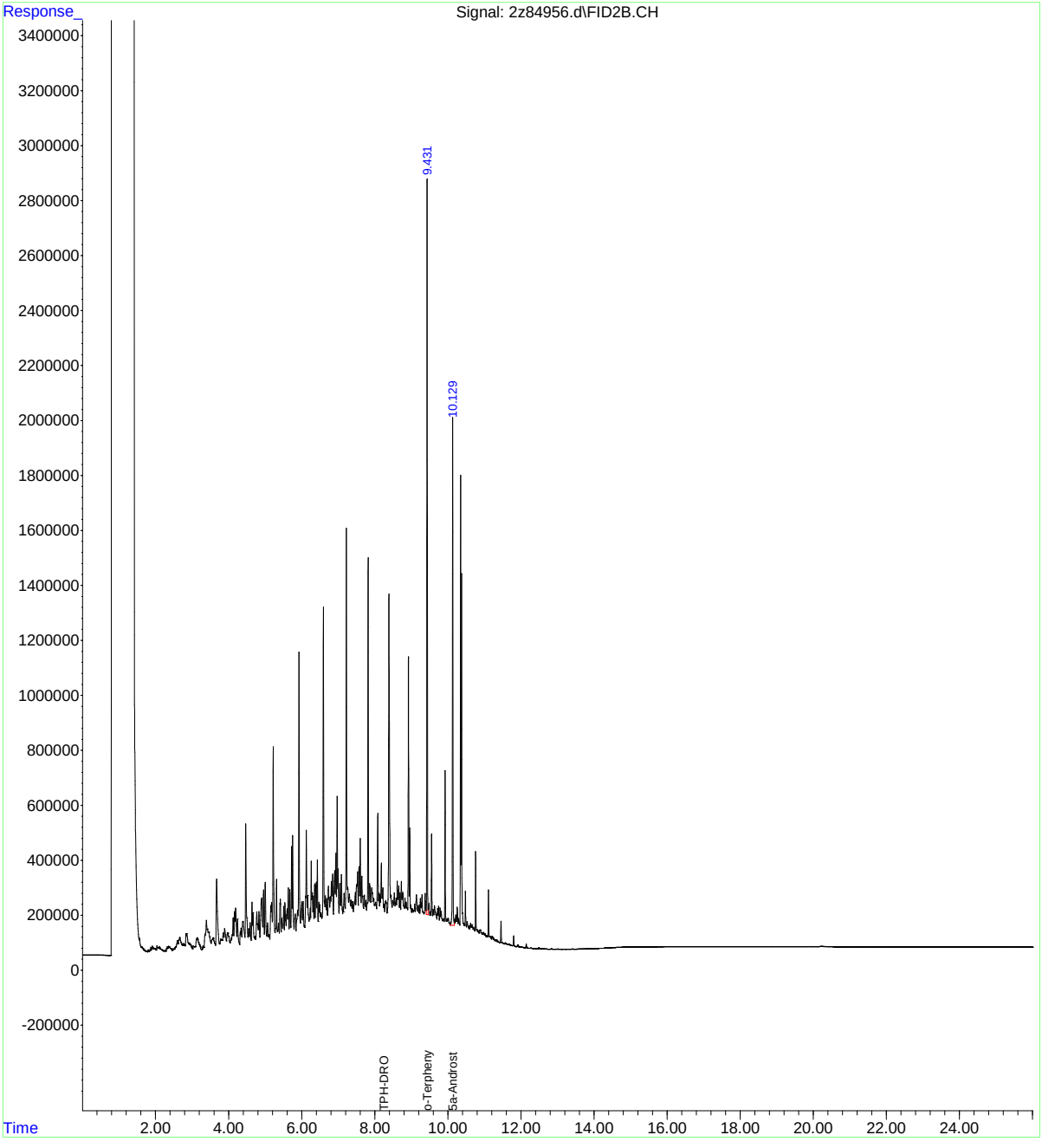
9

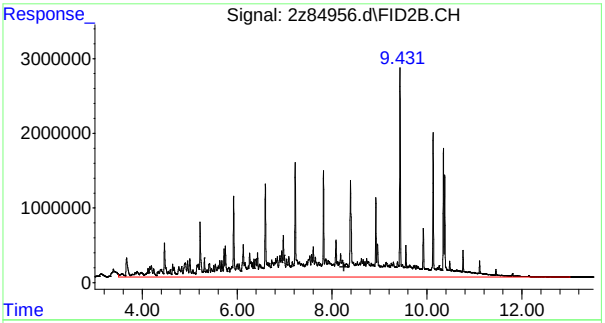
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2z84956.d
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 3:03 pm
Operator : thomasl
Sample : ic3259-500
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 60 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:50:21 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

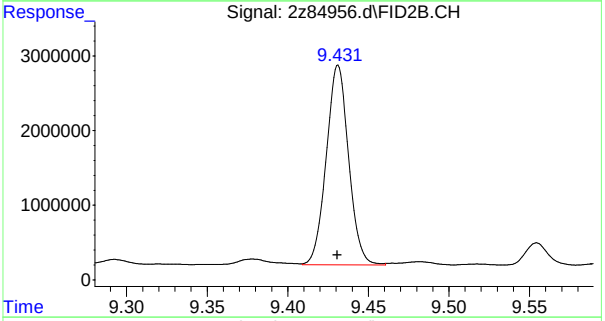
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





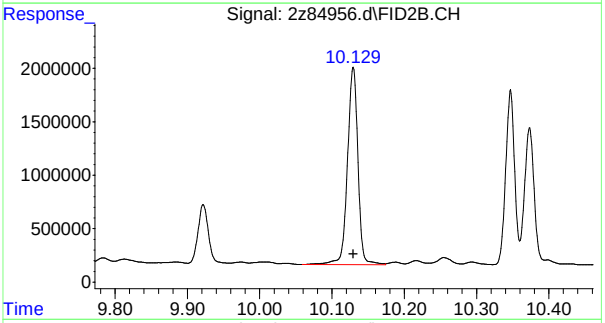
#1 TPH-DRO

```
      R.T.:    8.250 min
Delta R.T.:    0.000 min
  Response: 740858422
      Conc: 422.13 PPM
```



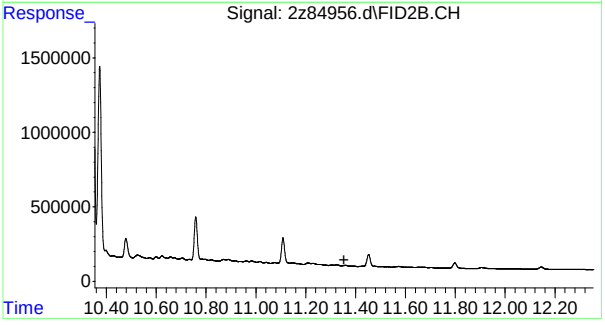
#9 o-Terphenyl

```
      R.T.:    9.431 min
Delta R.T.:    0.000 min
  Response:  25754196
      Conc:  11.24 PPM
```



#10 5a-Androstane

```
      R.T.:   10.129 min
Delta R.T.:    0.000 min
  Response:  18590947
      Conc:   8.69 PPM
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:   N.D.
```

9.6.20

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84957.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 3:37 pm
Operator : thomasl
Sample : icc3259-1000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:51:01 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.434	50726037	22.135 PPM
Spiked Amount 50.000		Recovery =	44.27%
10) S 5a-Androstane	10.132	36926158	17.253 PPM
Spiked Amount 50.000		Recovery =	34.51%
Target Compounds			
1) H TPH-DRO	8.250	1451048847	826.777 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.21

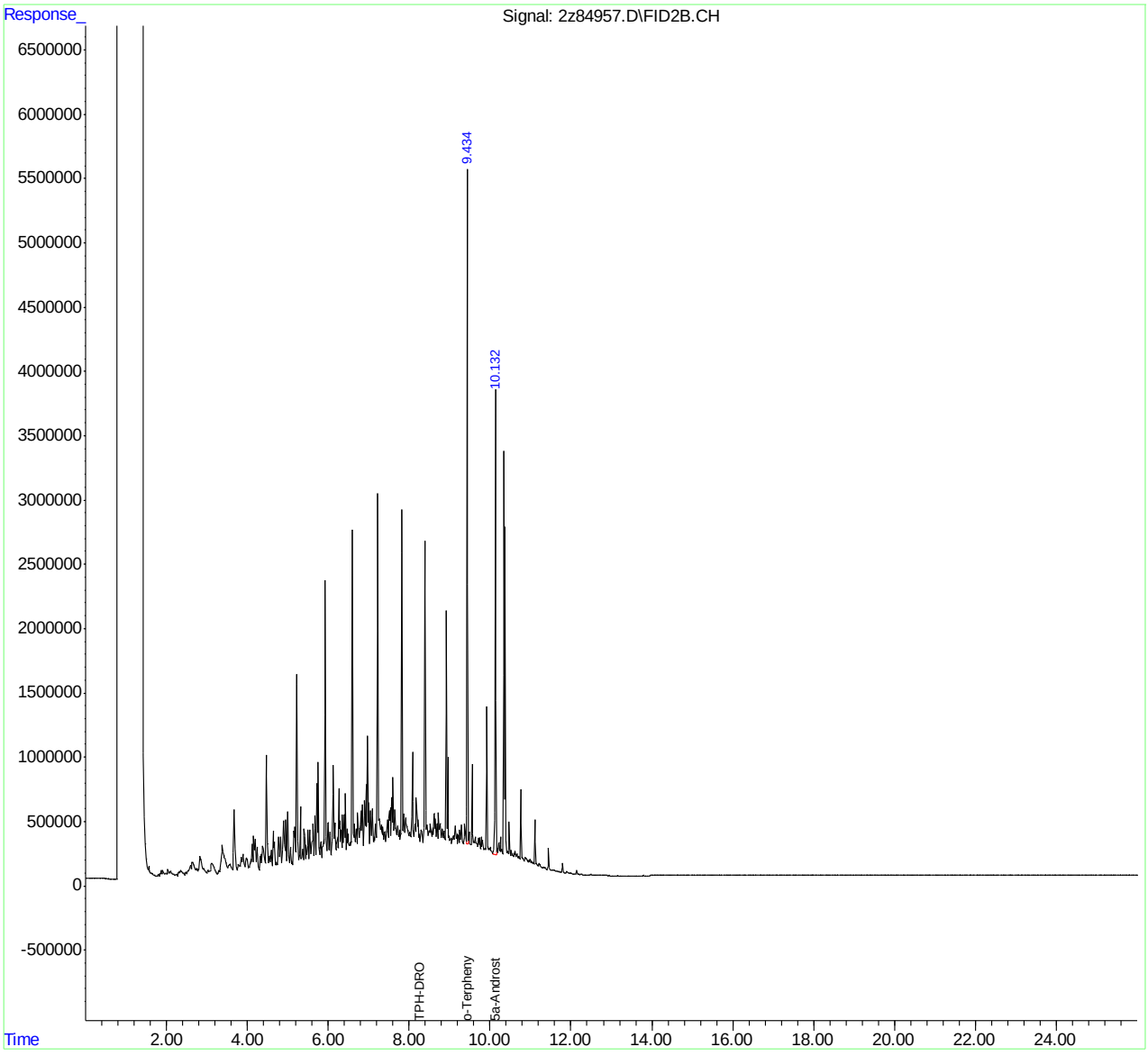
9

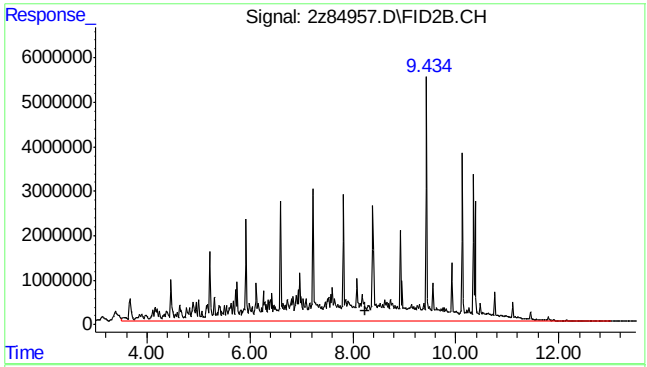
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84957.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 3:37 pm
Operator : thomasl
Sample : icc3259-1000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:51:01 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

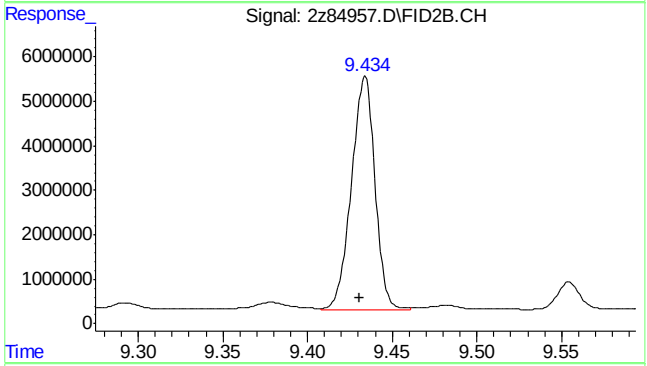
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





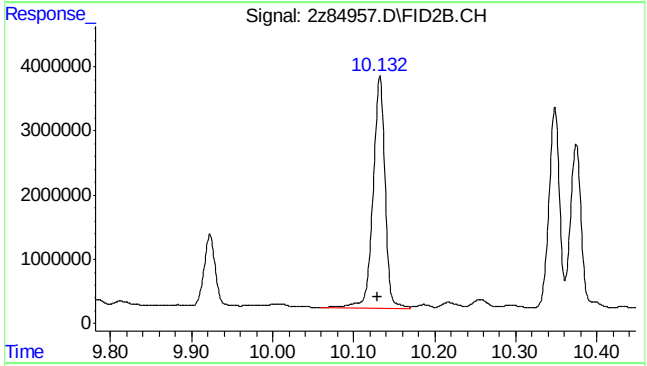
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 1451048847
Conc: 826.78 PPM m



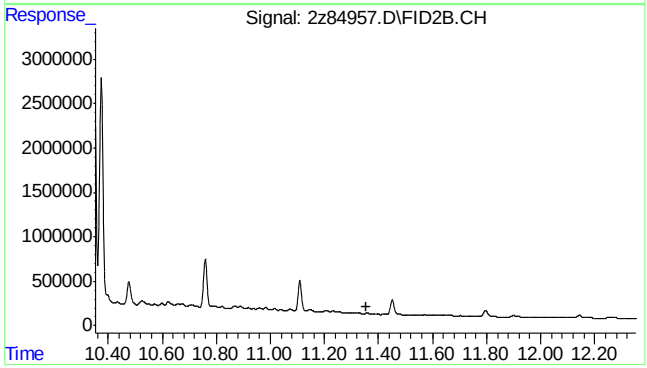
#9 o-Terphenyl

R.T.: 9.434 min
Delta R.T.: 0.003 min
Response: 50726037
Conc: 22.14 PPM



#10 5a-Androstane

R.T.: 10.132 min
Delta R.T.: 0.003 min
Response: 36926158
Conc: 17.25 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84959.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 4:44 pm
Operator : thomasl
Sample : ic3259-5000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:53:00 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.453f	249934472	109.064 PPM
Spiked Amount 50.000		Recovery	= 218.13%
10) S 5a-Androstane	10.156f	184836225	86.360 PPM
Spiked Amount 50.000		Recovery	= 172.72%
Target Compounds			
1) H TPH-DRO	8.250	7122640928	4058.329 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.22

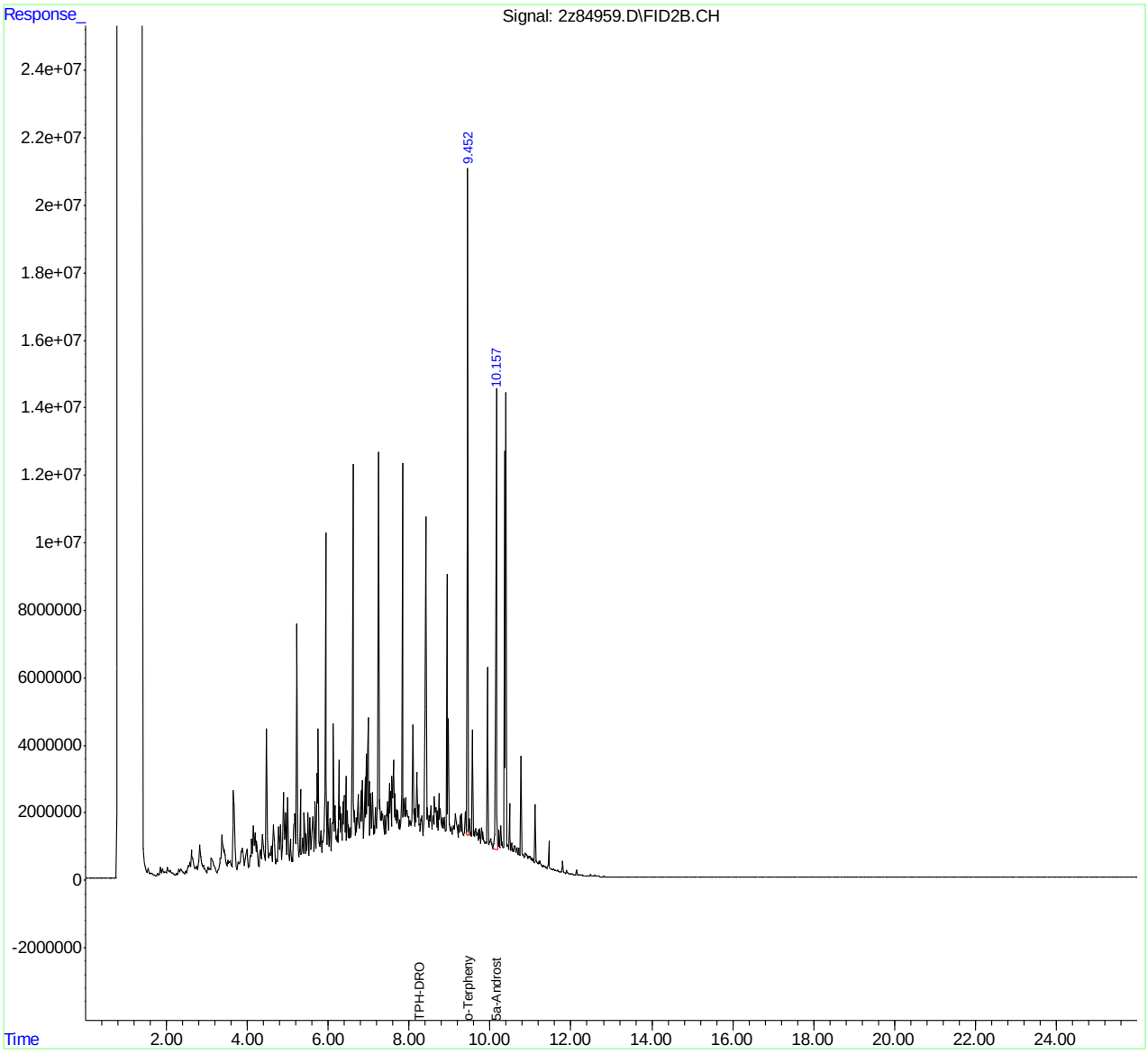
9

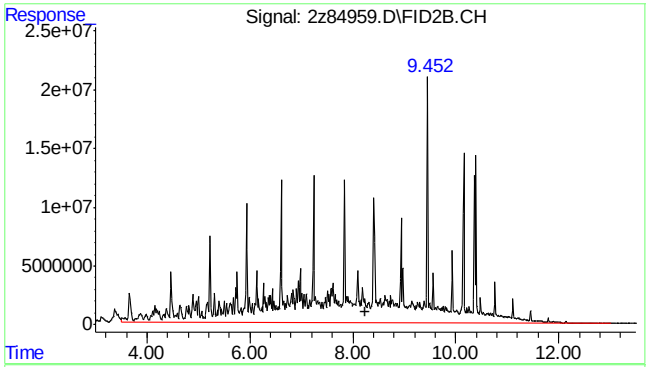
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84959.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 4:44 pm
Operator : thomasl
Sample : ic3259-5000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:53:00 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

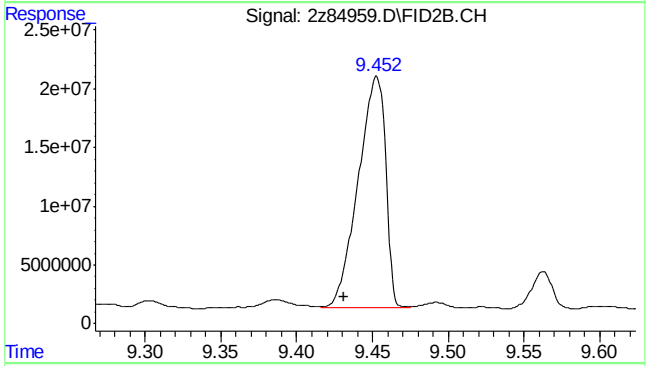
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





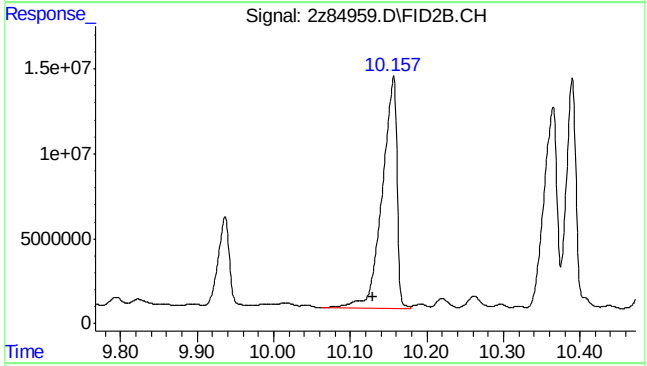
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 7122640928
Conc: 4058.33 PPM m



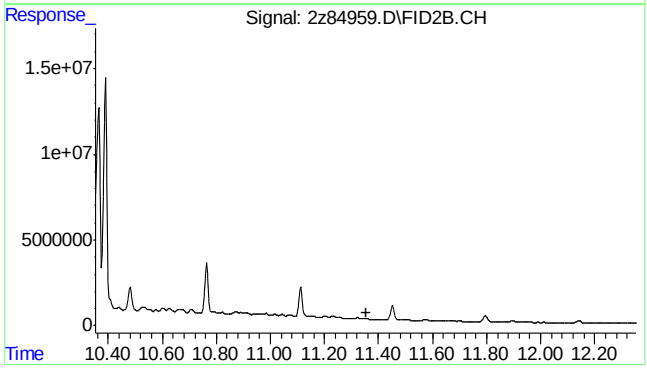
#9 o-Terphenyl

R.T.: 9.453 min
Delta R.T.: 0.022 min
Response: 249934472
Conc: 109.06 PPM



#10 5a-Androstane

R.T.: 10.156 min
Delta R.T.: 0.027 min
Response: 184836225
Conc: 86.36 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84959a.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 5:21 pm
Operator : thomasl
Sample : ic3259-50
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:47:16 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.434	2562382	1.118 PPM
Spiked Amount 50.000		Recovery =	2.24%
10) S 5a-Androstane	10.129	1834332	0.857 PPM
Spiked Amount 50.000		Recovery =	1.71%
Target Compounds			
1) H TPH-DRO	8.250	85666557	48.811 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.23

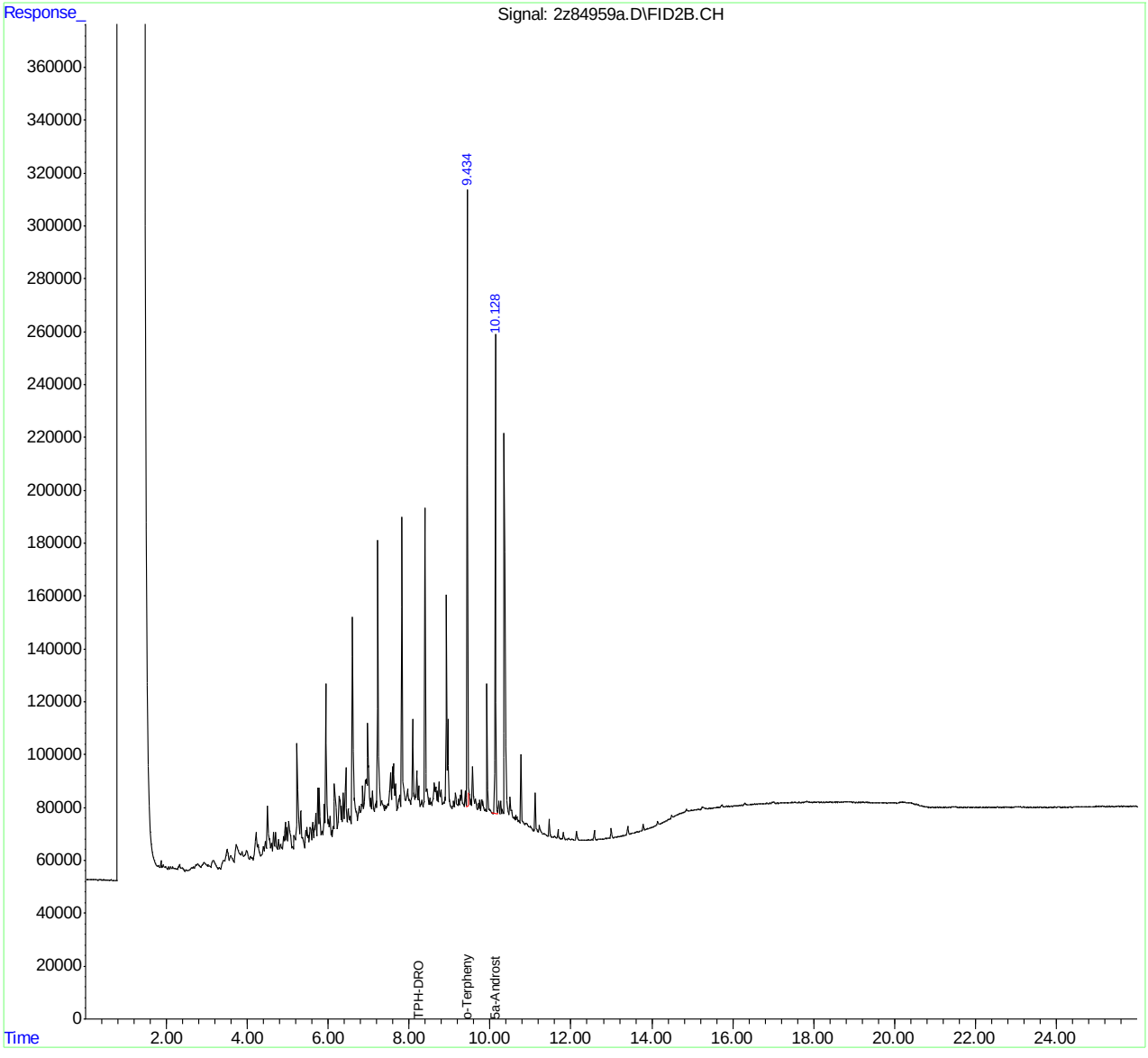
9

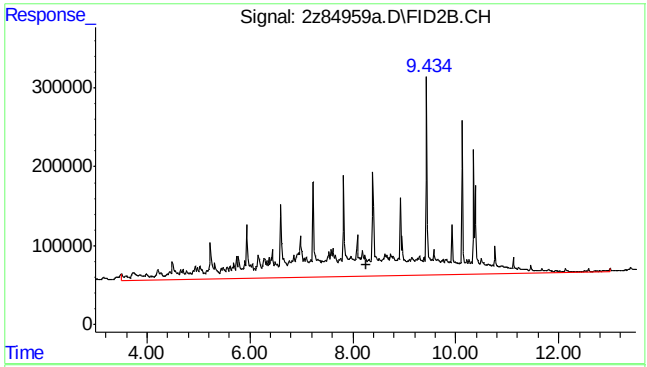
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84959a.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 5:21 pm
Operator : thomasl
Sample : ic3259-50
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:47:16 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

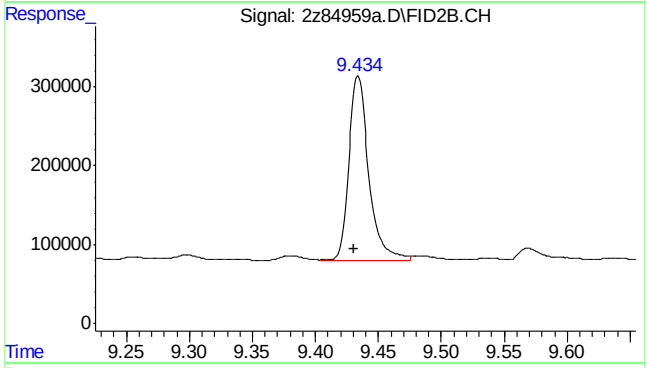
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





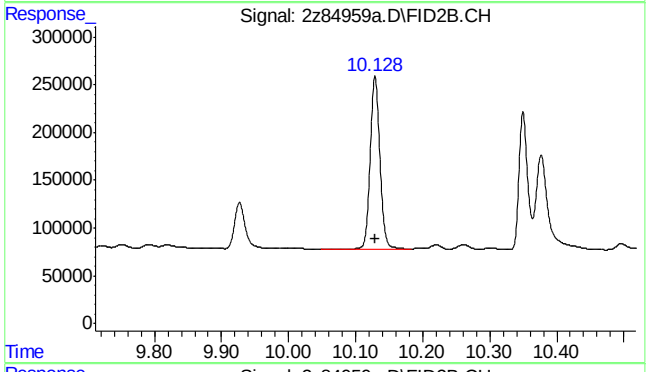
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 85666557
Conc: 48.81 PPM m



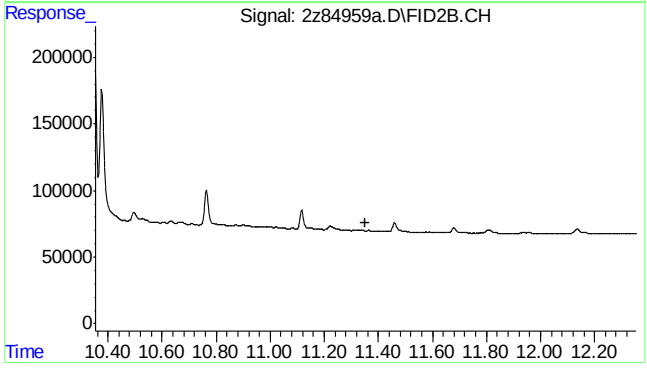
#9 o-Terphenyl

R.T.: 9.434 min
Delta R.T.: 0.003 min
Response: 2562382
Conc: 1.12 PPM



#10 5a-Androstane

R.T.: 10.129 min
Delta R.T.: 0.000 min
Response: 1834332
Conc: 0.86 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.23

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84959b.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 5:55 pm
Operator : thomasl
Sample : ic3259-2500
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:52:05 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.443	126275314	55.103 PPM
Spiked Amount 50.000		Recovery =	110.21%
10) S 5a-Androstane	10.144	91161965	42.593 PPM
Spiked Amount 50.000		Recovery =	85.19%
Target Compounds			
1) H TPH-DRO	8.250	3574287028	2036.553 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.24

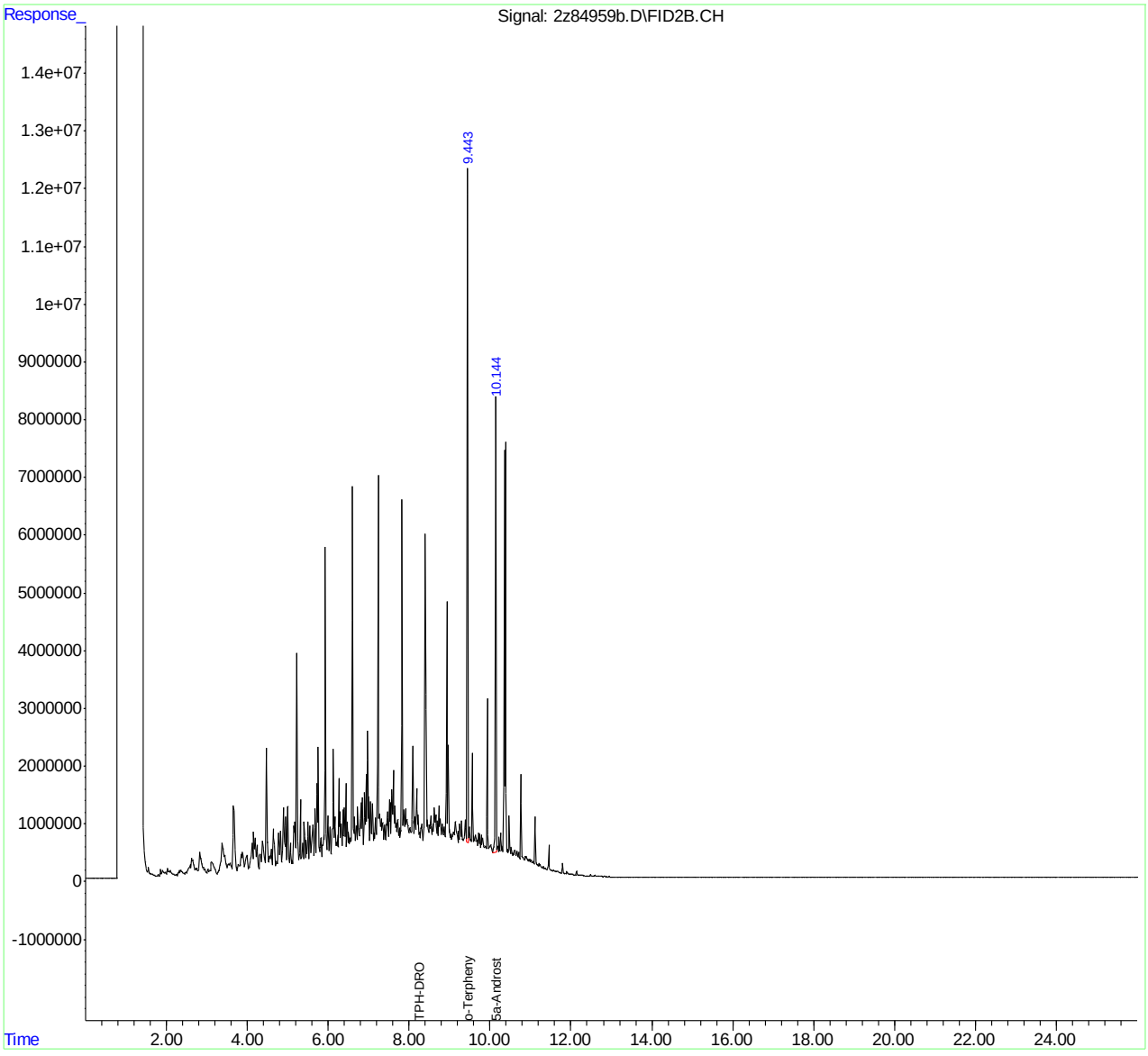
9

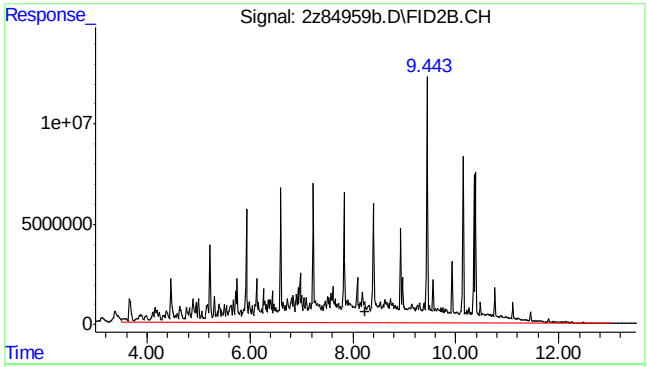
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84959b.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 5:55 pm
Operator : thomasl
Sample : ic3259-2500
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:52:05 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

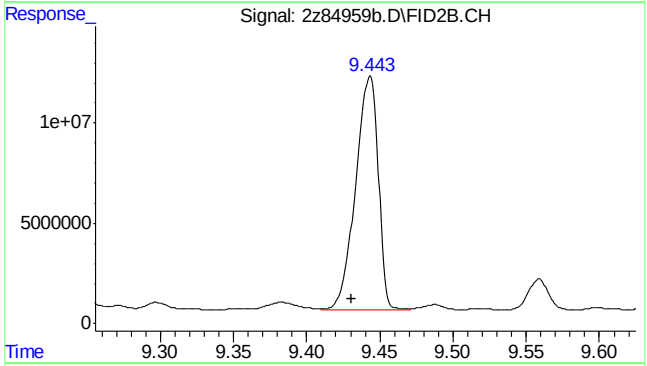
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





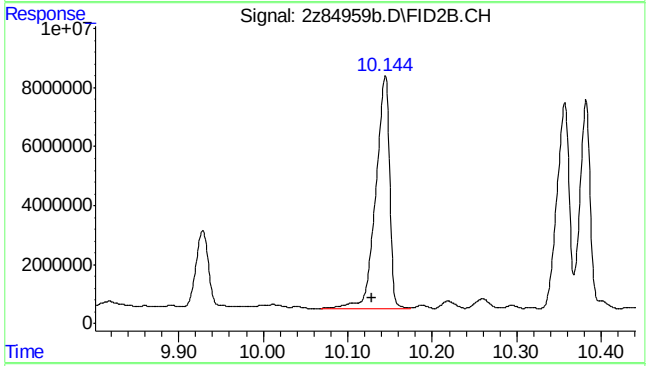
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 3574287028
Conc: 2036.55 PPM m



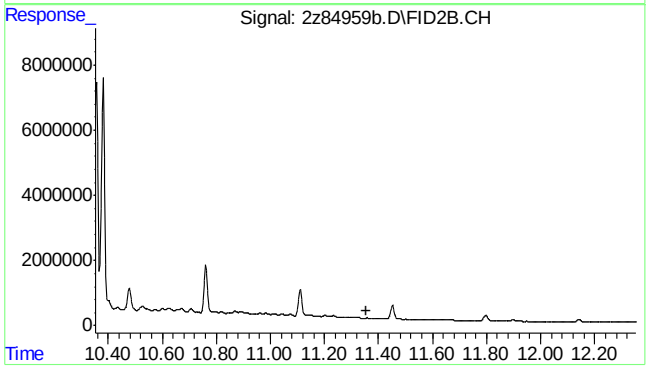
#9 o-Terphenyl

R.T.: 9.443 min
Delta R.T.: 0.012 min
Response: 126275314
Conc: 55.10 PPM



#10 5a-Androstane

R.T.: 10.144 min
Delta R.T.: 0.015 min
Response: 91161965
Conc: 42.59 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.24

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84960.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 6:28 pm
Operator : thomasl
Sample : ic3259-10000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:53:28 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
1) H TPH-DRO	8.250	13891687930	7915.188	PPM

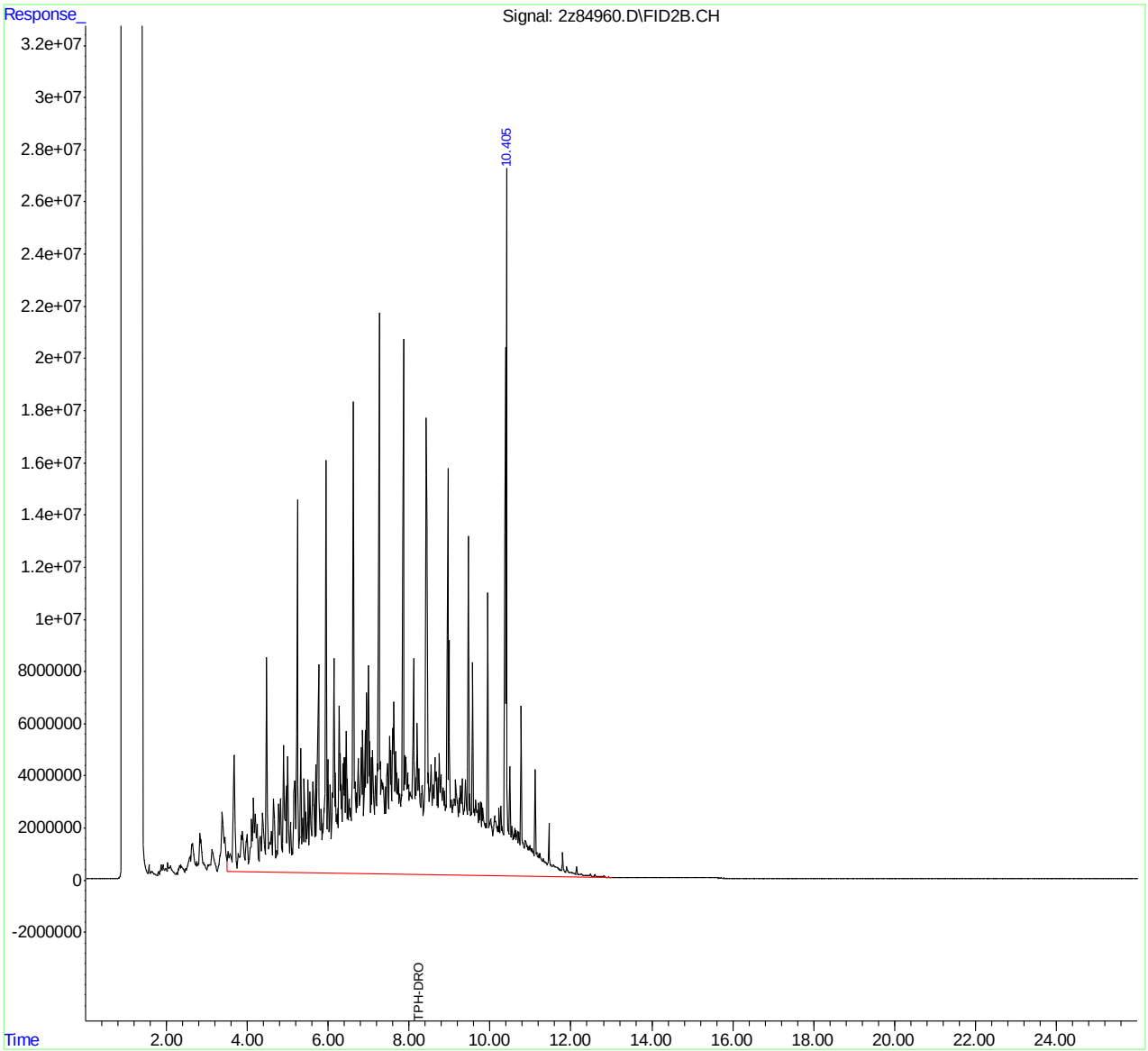
(f)=RT Delta > 1/2 Window (m)=manual int.

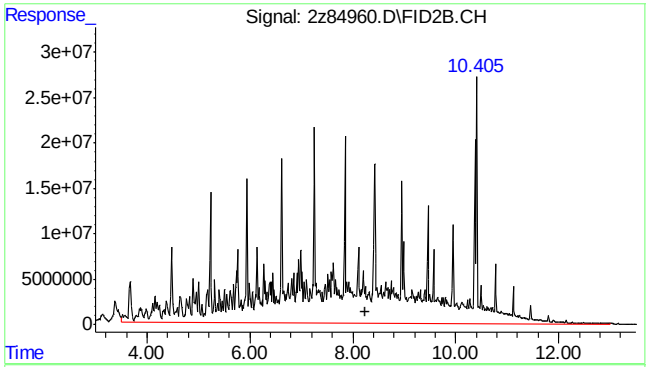
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84960.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 6:28 pm
Operator : thomasl
Sample : ic3259-10000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:53:28 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

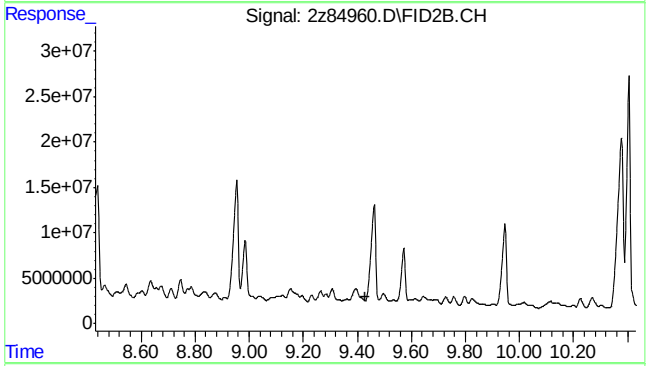
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





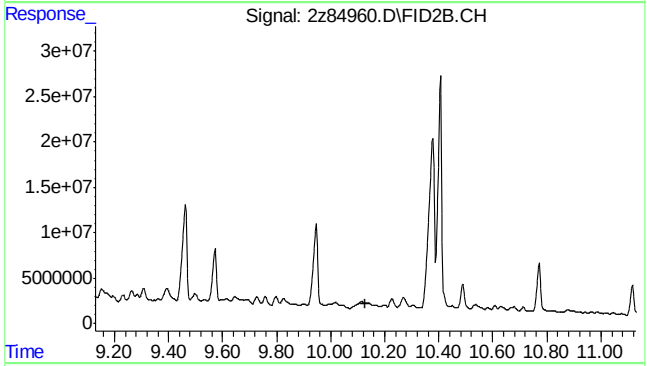
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 13891687930
Conc: 7915.19 PPM m



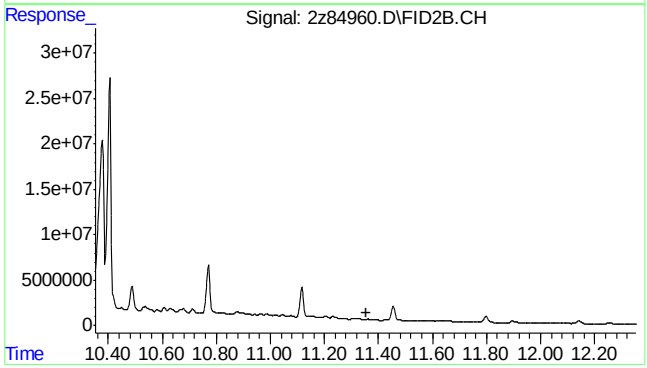
#9 o-Terphenyl

R.T.: 0.000 min
Exp R.T. : 9.431 min
Response: 0
Conc: N.D.



#10 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 10.129 min
Response: 0
Conc: N.D.



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.25

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84961.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 7:02 pm
Operator : thomasl
Sample : ic3259-50000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:53:45 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
1) H TPH-DRO	8.250	69732785710	39732.259 PPM

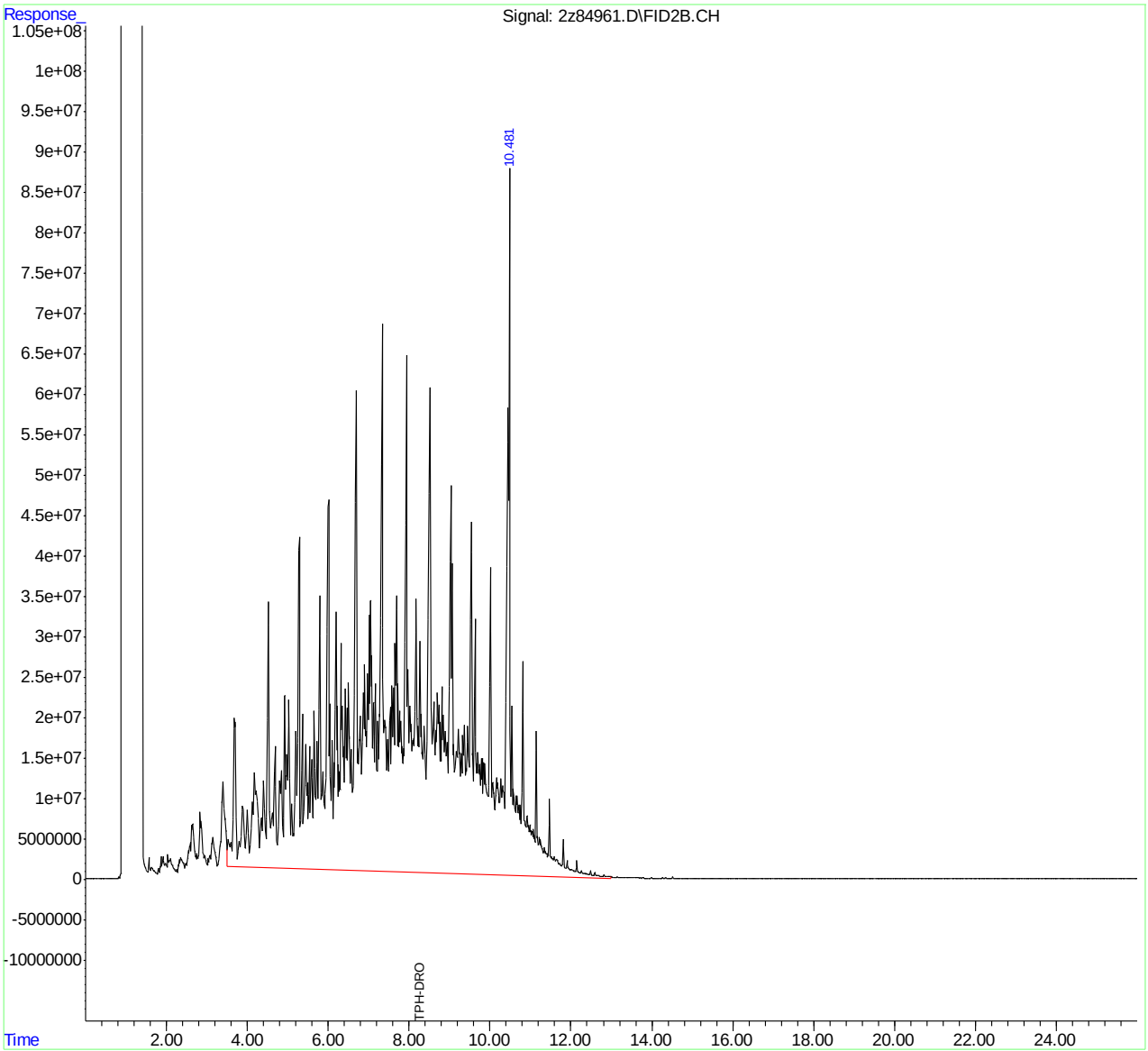
(f)=RT Delta > 1/2 Window (m)=manual int.

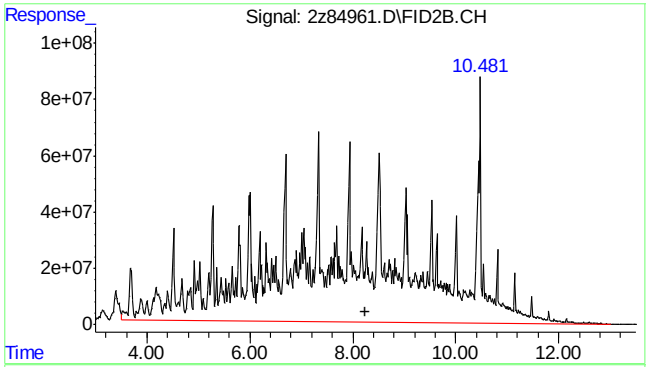
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G2Z3259\
Data File : 2z84961.D
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 7:02 pm
Operator : thomasl
Sample : ic3259-50000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 11:53:45 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 11:41:00 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

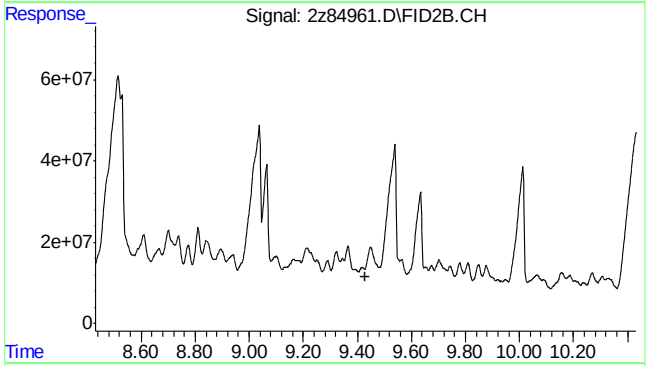
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





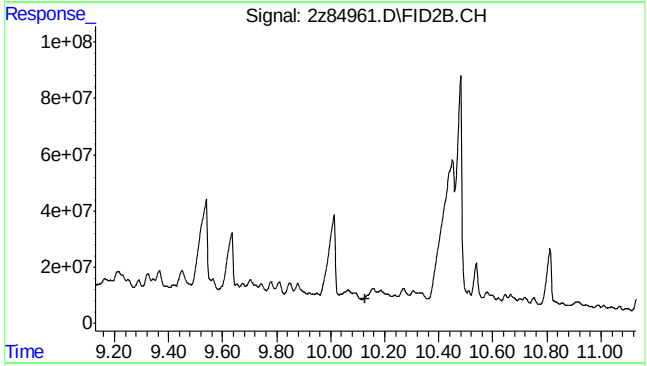
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 69732785710
Conc: 39732.26 PPM m



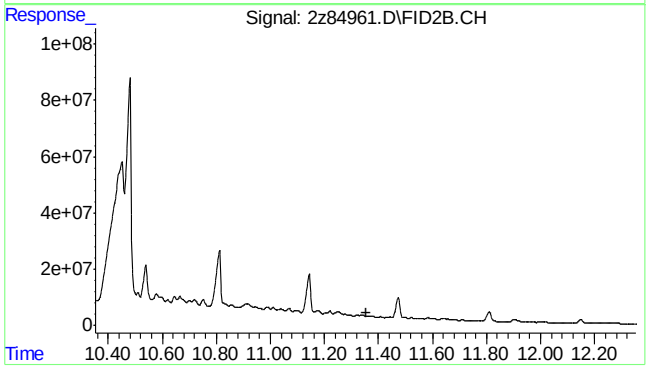
#9 o-Terphenyl

R.T.: 0.000 min
Exp R.T. : 9.431 min
Response: 0
Conc: N.D.



#10 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 10.129 min
Response: 0
Conc: N.D.



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2z84962.d
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 7:35 pm
Operator : thomasl
Sample : icv3259-1000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 12:21:36 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 12:20:05 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
1) H TPH-DRO	8.250	1321116831	846.416 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.27

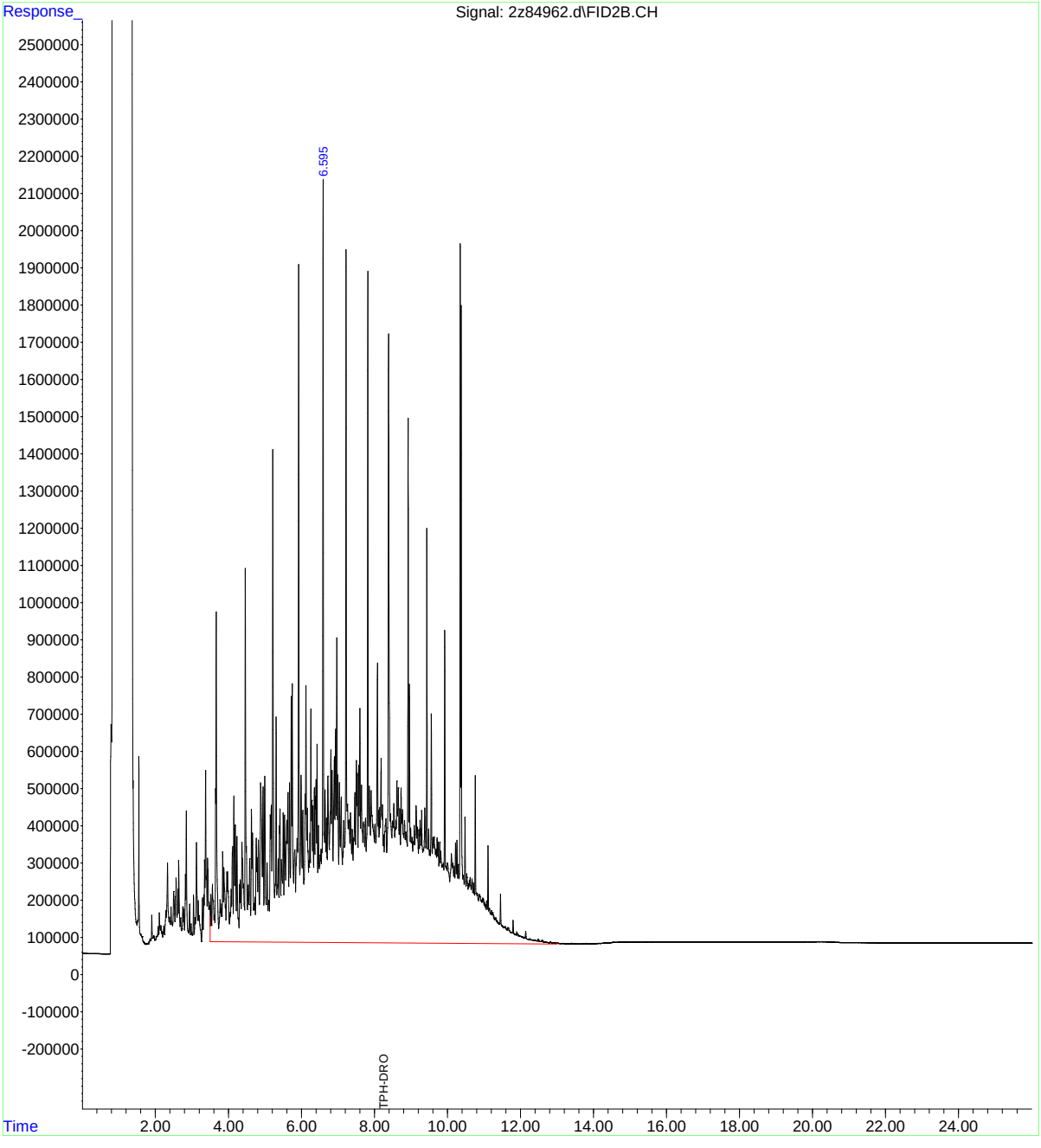
9

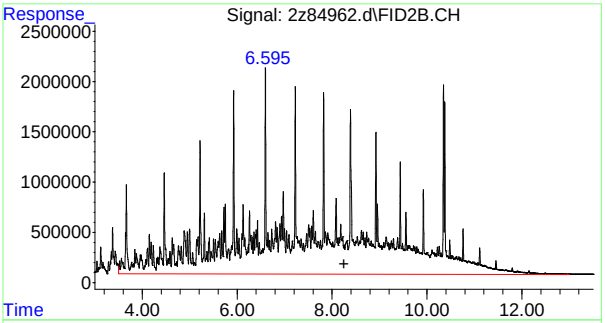
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2z84962.d
Signal(s) : FID2B.CH
Acq On : 23 Nov 2021 7:35 pm
Operator : thomasl
Sample : icv3259-1000
Misc : op23322,g2z3259,10.0,,,1,1
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 24 12:21:36 2021
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Wed Nov 24 12:20:05 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

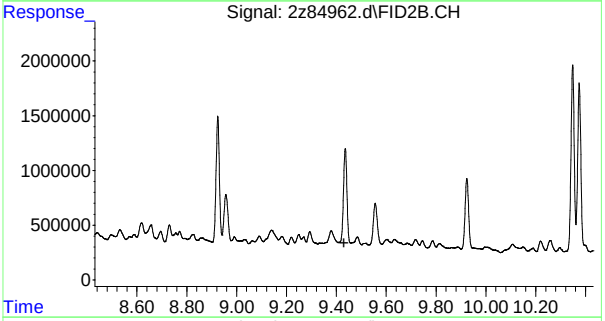
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





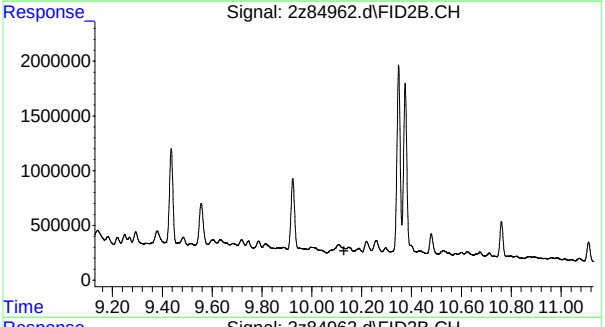
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 1321116831
Conc: 846.42 PPM



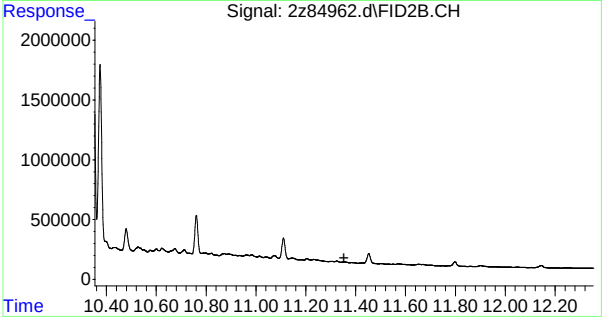
#9 o-Terphenyl

R.T.: 0.000 min
Exp R.T. : 9.431 min
Response: 0
Conc: N.D.



#10 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 10.129 min
Response: 0
Conc: N.D.



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 16:48

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87587.d
Signal(s) : FID2B.CH
Acq On    : 10 Aug 2022   3:10 pm
Operator  : thomasl
Sample    : cc3259-1000
Misc      : op41078,g2z3372,10.0,,,1,1
ALS Vial  : 4   Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:32:59 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title  :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  : 1UL
Signal Phase : RTX-1
Signal Info  : 30mX0.25mmX0.25um
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	9.265	54062541	21.080 PPM m
Spiked Amount 50.000		Recovery =	42.16%
10) S 5a-Androstane	9.954	37526735	20.305 PPM
Spiked Amount 50.000		Recovery =	40.61%
Target Compounds			
1) H TPH-DRO	8.250	1525651160	977.457 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.28

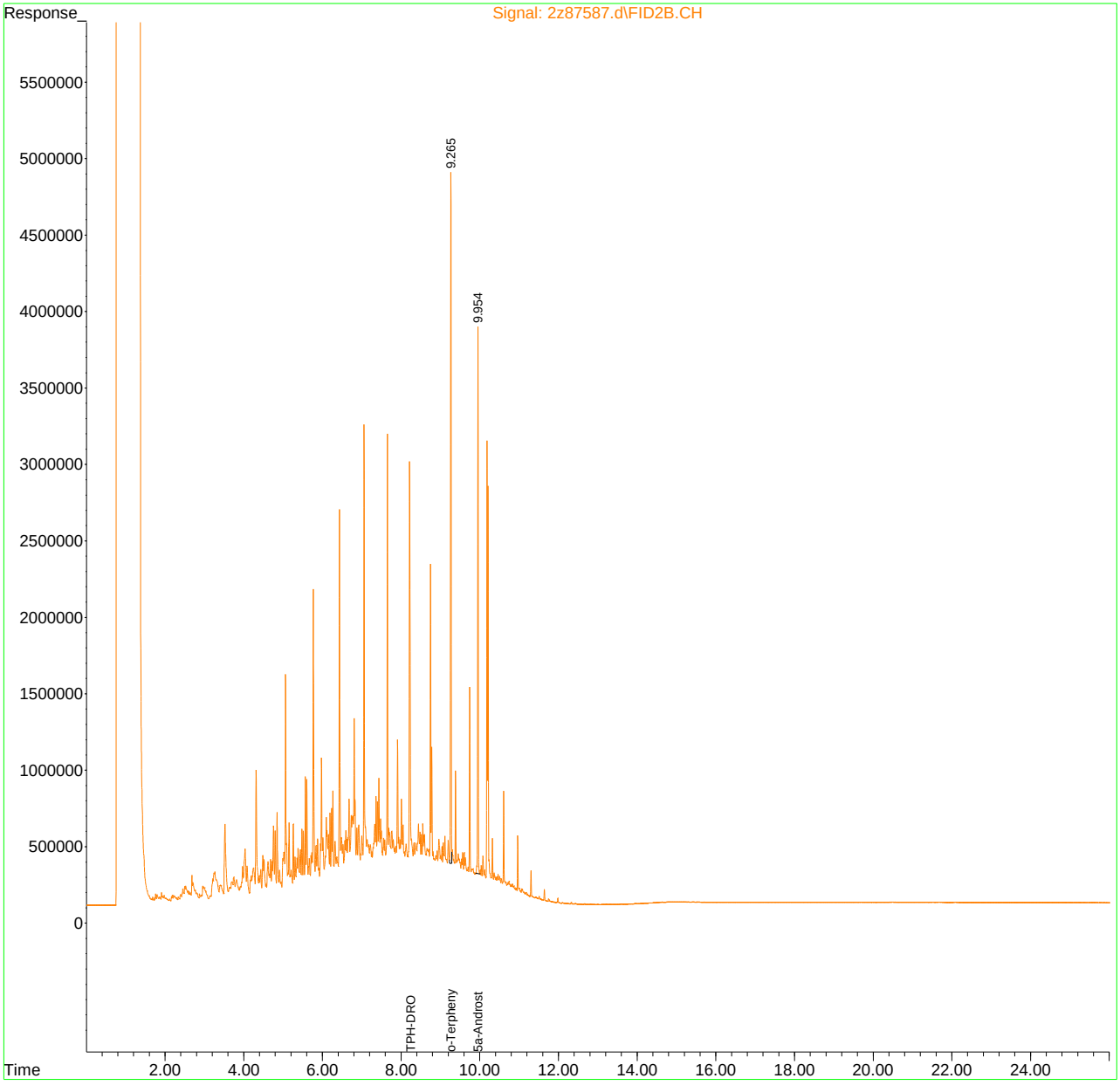
9

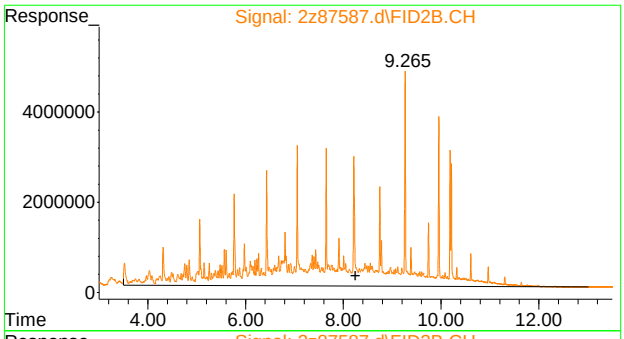
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87587.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc3259-1000
Misc : op41078,g2z3372,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:32:59 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

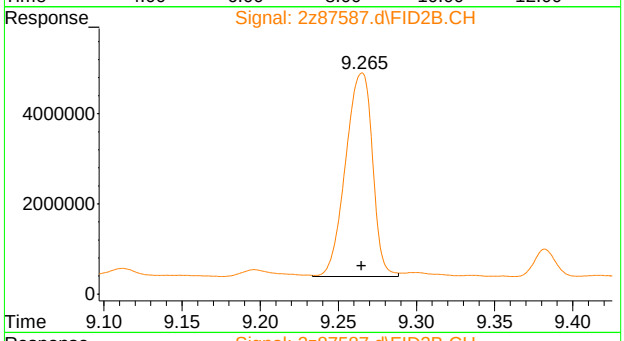
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





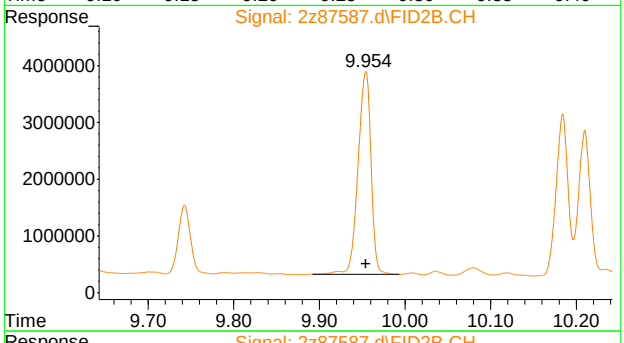
#1 TPH-DRO

R.T.: 8.250 min
Delta R.T.: 0.000 min
Response: 1525651160
Conc: 977.46 PPM



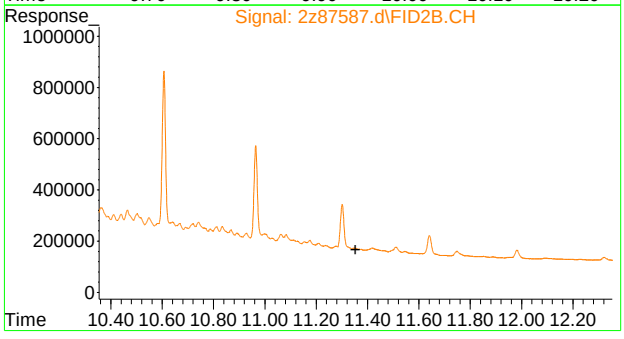
#9 o-Terphenyl

R.T.: 9.265 min
Delta R.T.: 0.000 min
Response: 54062541
Conc: 21.08 PPM m



#10 5a-Androstane

R.T.: 9.954 min
Delta R.T.: 0.000 min
Response: 37526735
Conc: 20.30 PPM



#11 Tetracosane-d50

R.T.: 0.000 min
Exp R.T. : 11.353 min
Response: 0
Conc: N.D.

9.6.28

9

Manual Integration Approval Summary

Sample Number:	G2Z3372-CC3259	**Method:**	SW846 8015D
Lab FileID:	2Z87587.D	**Analyst approved:**	08/11/22 16:44 Jason Savoie
Injection Time:	08/10/22 15:10	**Supervisor approved:**	08/11/22 16:48 Jason Savoie

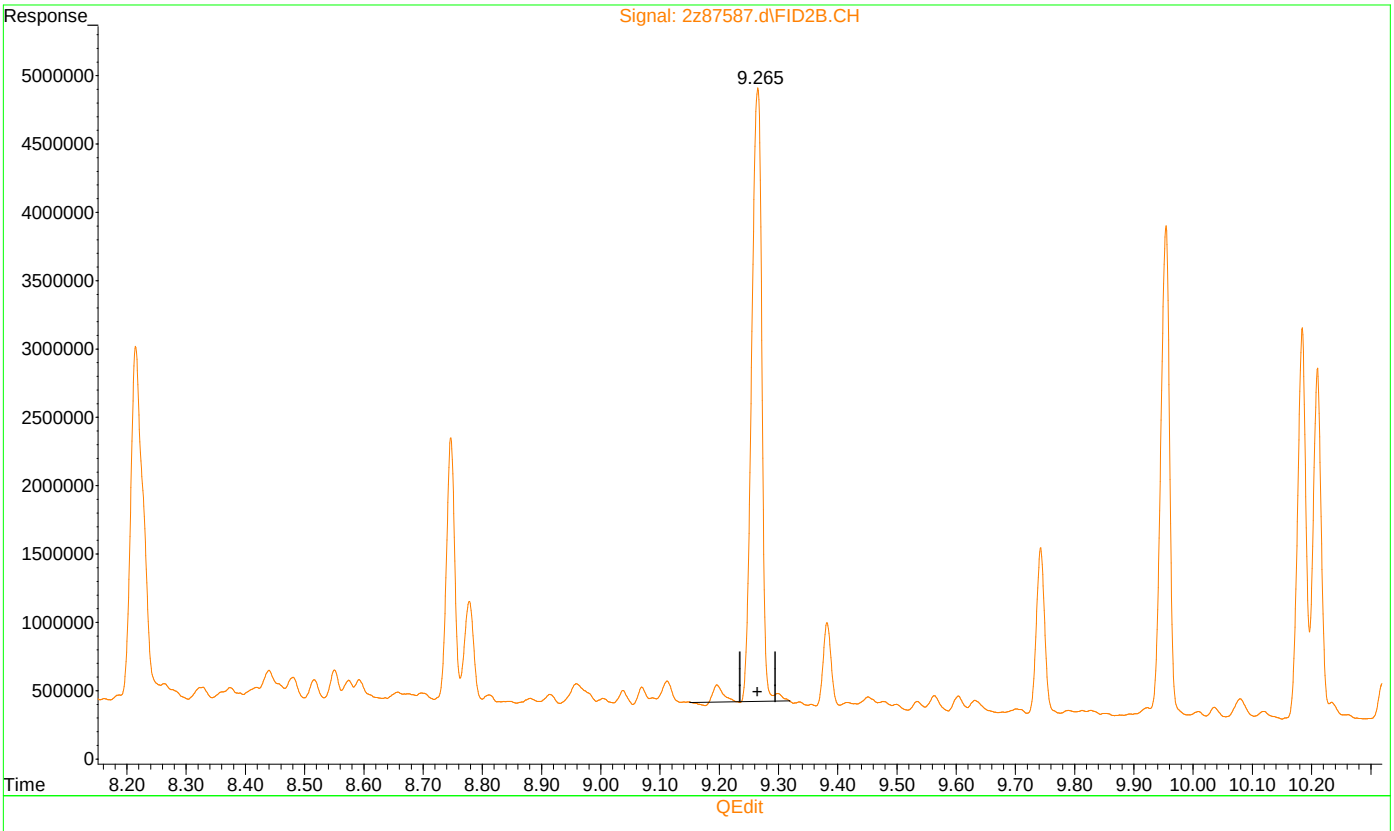
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87587.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc3259-1000
Misc : op41078,g2z3372,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:32:26 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.265min 21.451 PPM

response 55012440

(+) = Expected Retention Time

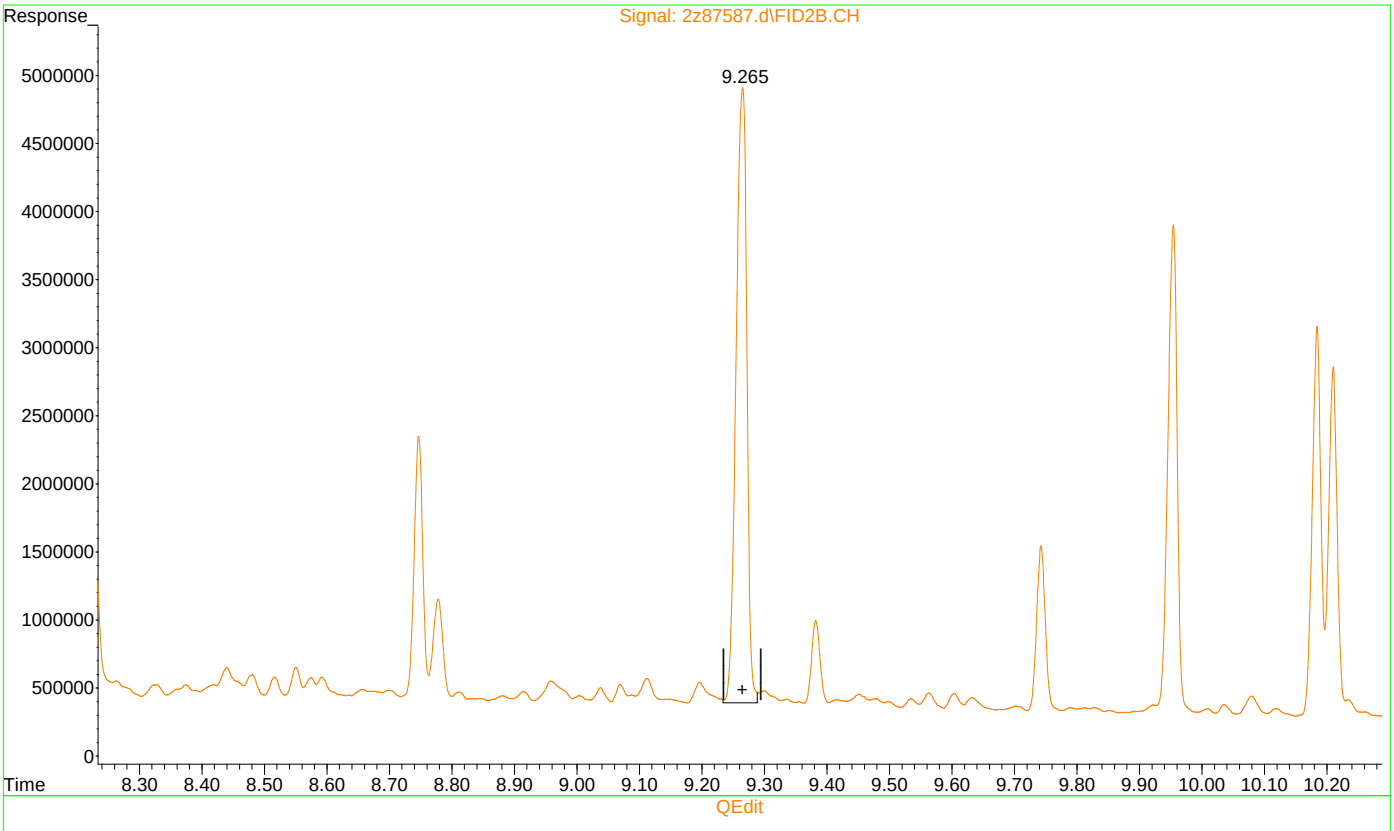
DRO2Z3259.M Thu Aug 11 03:32:45 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87587.d
Signal(s) : FID2B.CH
Acq On : 10 Aug 2022 3:10 pm
Operator : thomasl
Sample : cc3259-1000
Misc : op41078,g2z3372,10.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:32:26 2022
Quant Method : C:\msdchem\1\METHODS\DRO2Z3259.M
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.265min 21.080 PPM m

response 54062541

(+) = Expected Retention Time
DRO2Z3259.M Thu Aug 11 03:33:04 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Jason Savoie
08/11/22 16:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87598.d
Signal(s) : FID2B.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc3259-500
Misc : op41170,g2z3372,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:05:18 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	9.262	28324964	11.045	PPM	m
Spiked Amount 50.000		Recovery =	22.09%		
10) S 5a-Androstane	9.952	19044924	10.305	PPM	
Spiked Amount 50.000		Recovery =	20.61%		
Target Compounds					
1) H TPH-DRO	8.250	775213668	496.666	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.29

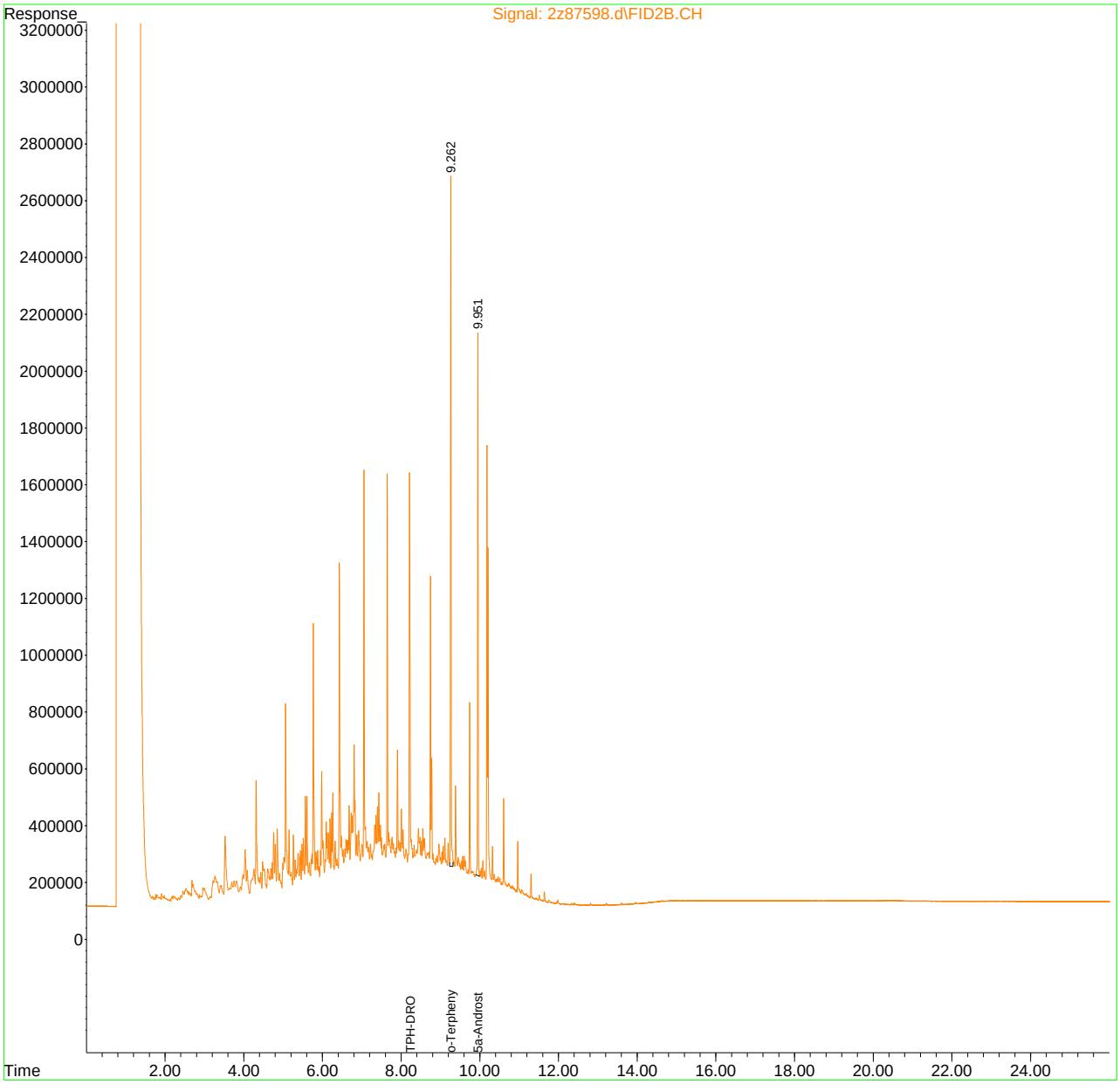
9

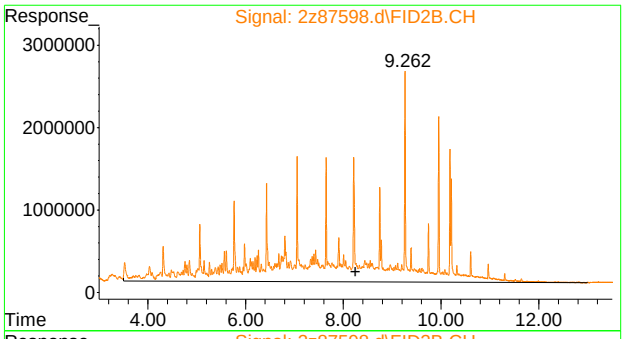
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87598.d
Signal(s) : FID2B.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc3259-500
Misc : op41170,g2z3372,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 04:05:18 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

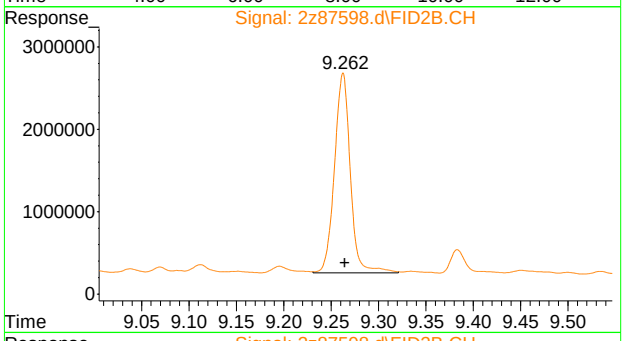
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





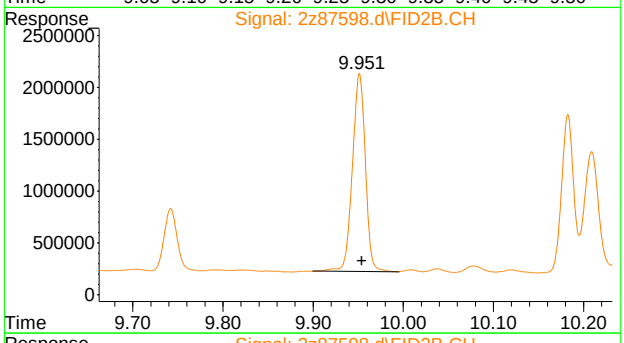
#1 TPH-DRO

```
      R.T.:    8.250 min
Delta R.T.:    0.000 min
  Response: 775213668
      Conc: 496.67 PPM
```



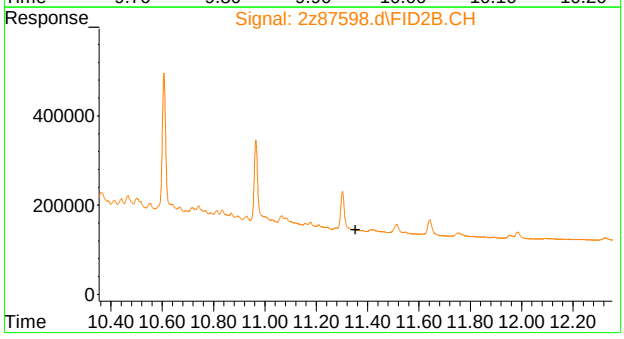
#9 o-Terphenyl

```
      R.T.:    9.262 min
Delta R.T.:   -0.002 min
  Response:  28324964
      Conc:  11.04 PPM m
```



#10 5a-Androstane

```
      R.T.:    9.952 min
Delta R.T.:   -0.002 min
  Response:  19044924
      Conc:  10.30 PPM
```



#11 Tetracosane-d50

```
      R.T.:    0.000 min
Exp R.T.  :   11.353 min
  Response:         0
      Conc:    N.D.
```

9.6.29

9

Manual Integration Approval Summary

Sample Number:	G2Z3372-CC3259	**Method:**	SW846 8015D
Lab FileID:	2Z87598.D	**Analyst approved:**	08/11/22 16:44 Jason Savoie
Injection Time:	08/11/22 01:48	**Supervisor approved:**	08/11/22 16:48 Jason Savoie

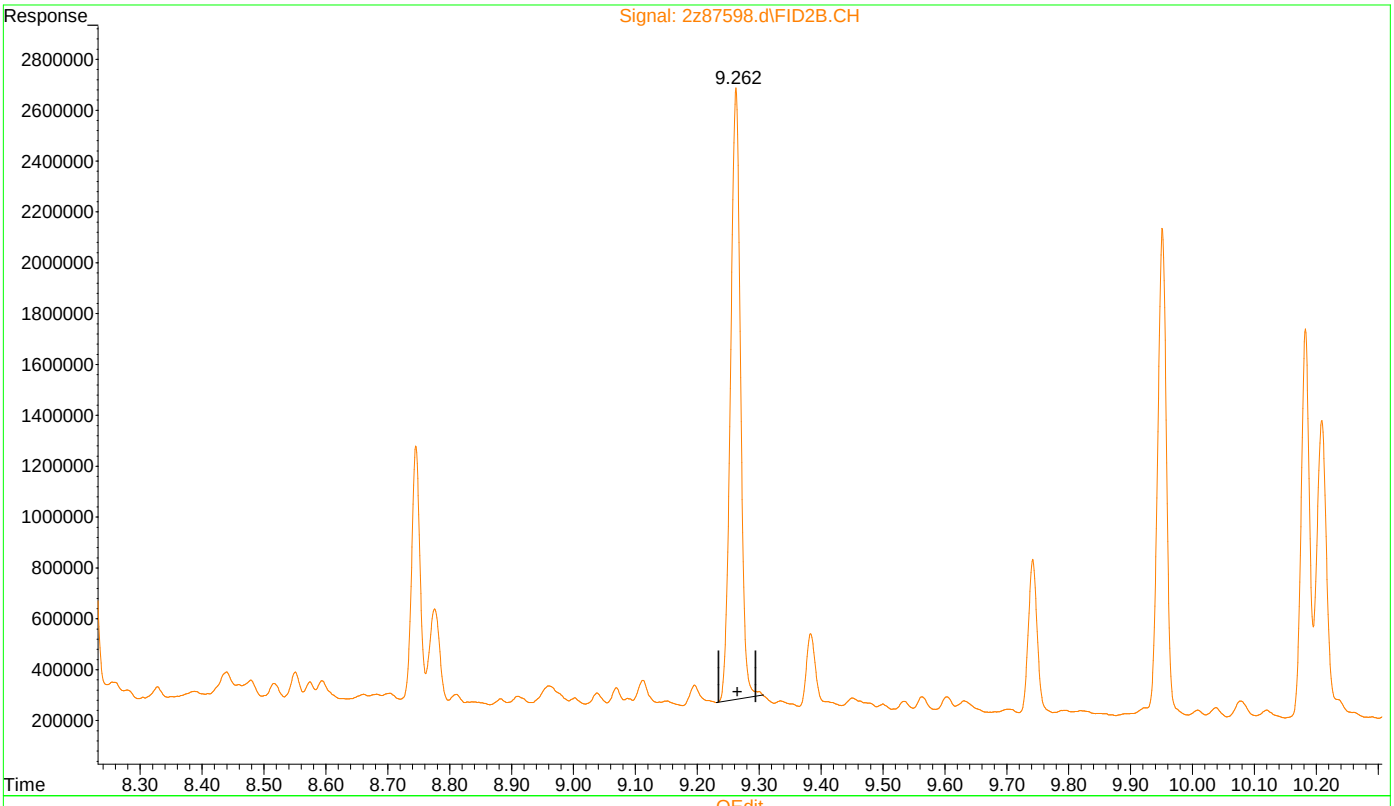
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	9.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87598.d
Signal(s) : FID2B.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc3259-500
Misc : op41170,g2z3372,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:34:49 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.263min 10.435 PPM

response 26762253

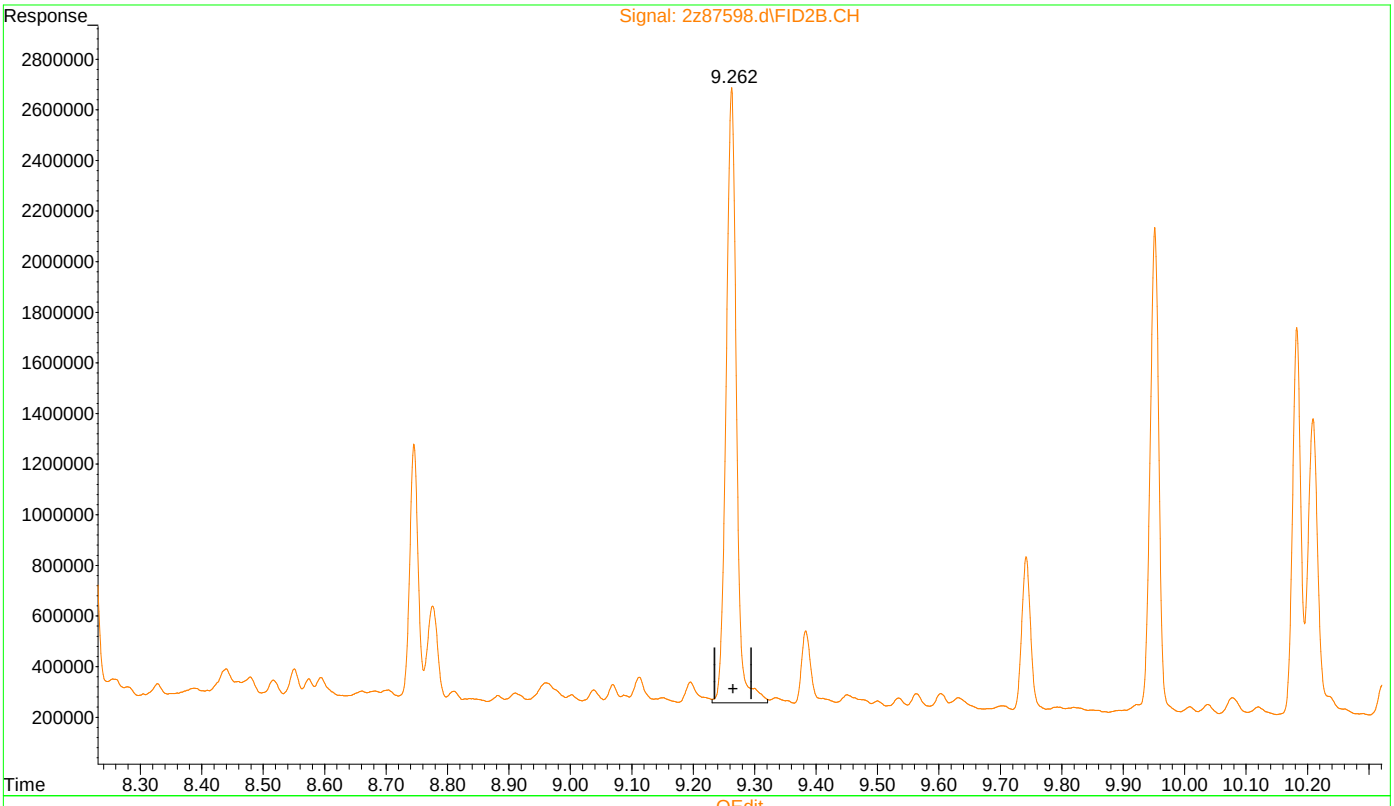
(+) = Expected Retention Time
dro2z3259.m Thu Aug 11 04:05:08 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\g2z3372\
Data File : 2z87598.d
Signal(s) : FID2B.CH
Acq On : 11 Aug 2022 1:48 am
Operator : thomasl
Sample : cc3259-500
Misc : op41170,g2z3372,10.0,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 11 03:34:49 2022
Quant Method : C:\msdchem\1\METHODS\dro2z3259.m
Quant Title :
QLast Update : Thu Aug 11 03:32:16 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



(9) o-Terphenyl (S)

9.262min 11.045 PPM m

response 28324964

(+) = Expected Retention Time
dro2z3259.m Thu Aug 11 04:05:21 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:54:00 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.936	3.613	66335857	193.0E6	2.096	2.648 #
Spiked Amount	40.000			Recovery	=	5.24%	6.62%
51) S	Decachlor...	10.339	12.093	75861722	197.6E6	2.495	3.970 #
Spiked Amount	40.000			Recovery	=	6.24%	9.93%
	Target Compounds						
31)	AR1016-A	3.333	4.284	42038906	85124534	79.207m	75.975
32)	AR1016-B	3.758	4.850	65945414	201.0E6	71.650	81.996m
33)	AR1016-C	4.332	5.491	143.2E6	448.2E6	68.395	82.233m
34)	AR1016-D	4.506	5.682	54591531	163.6E6	65.022	81.256
35)	AR1016-E	5.035	6.349	54805067	125.7E6	64.756	79.494
36)	AR1260-A	7.070	8.438	128.7E6	266.7E6	49.606	86.401 #
37)	AR1260-B	7.618	9.090	96068296	214.0E6	50.806	90.593 #
38)	AR1260-C	7.959	9.525	83514219	233.1E6	51.911	91.864m#
39)	AR1260-D	8.394	9.869	202.7E6	491.2E6	49.311	87.748m#
40)	AR1260-E	8.789	10.416	226.3E6	486.3E6	55.231m	87.060m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.30

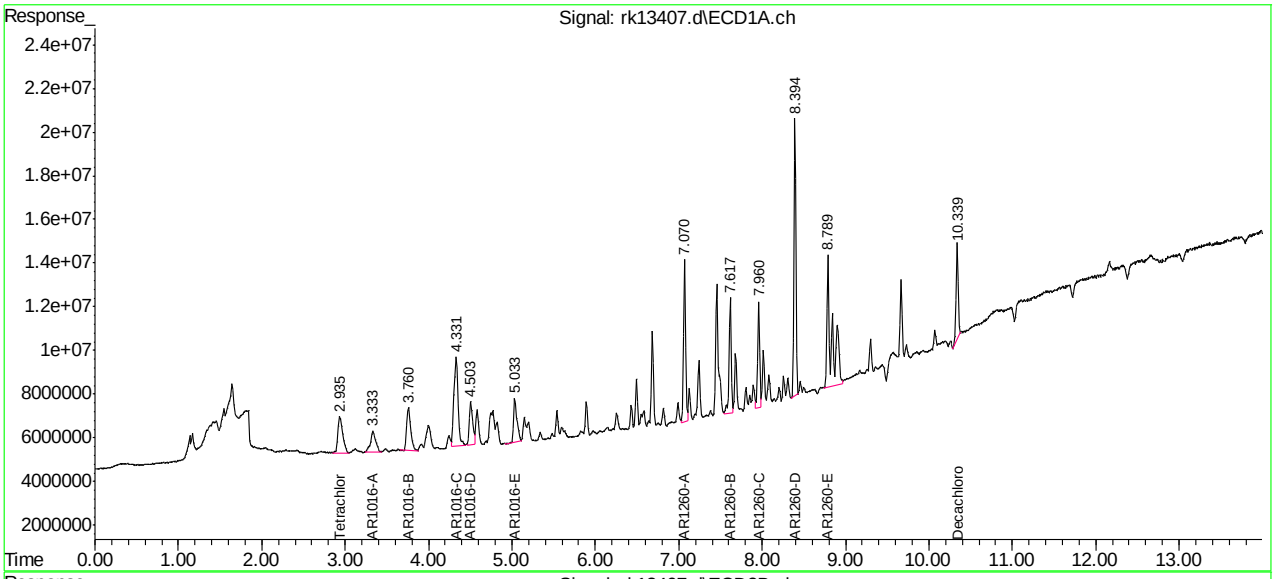
9

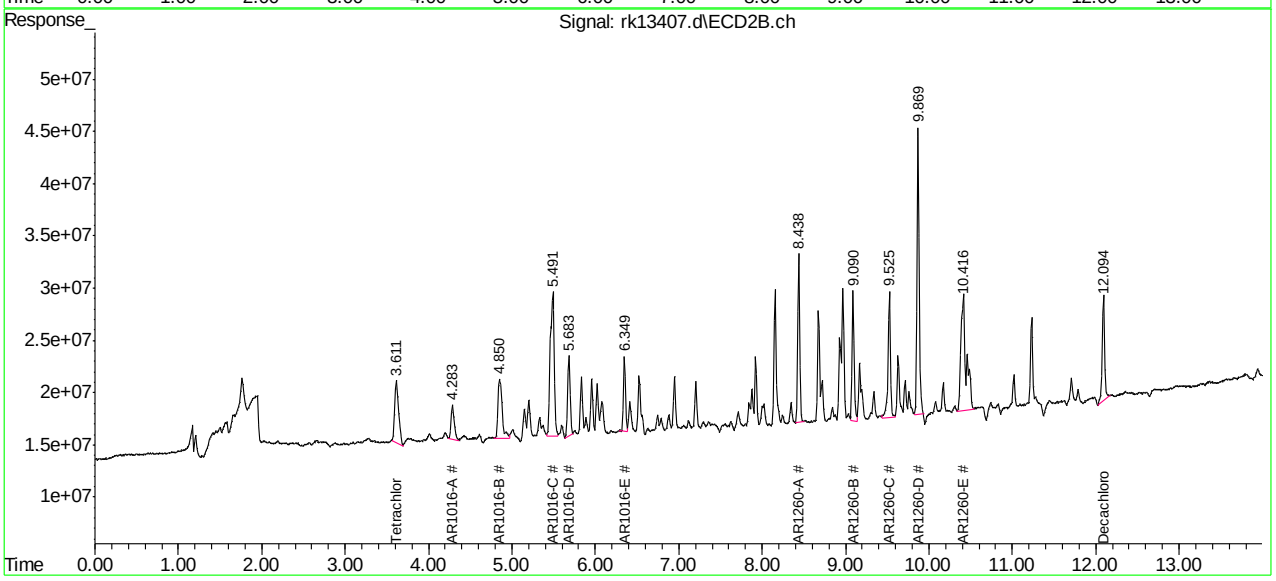
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:54:00 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13407.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 17:39	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

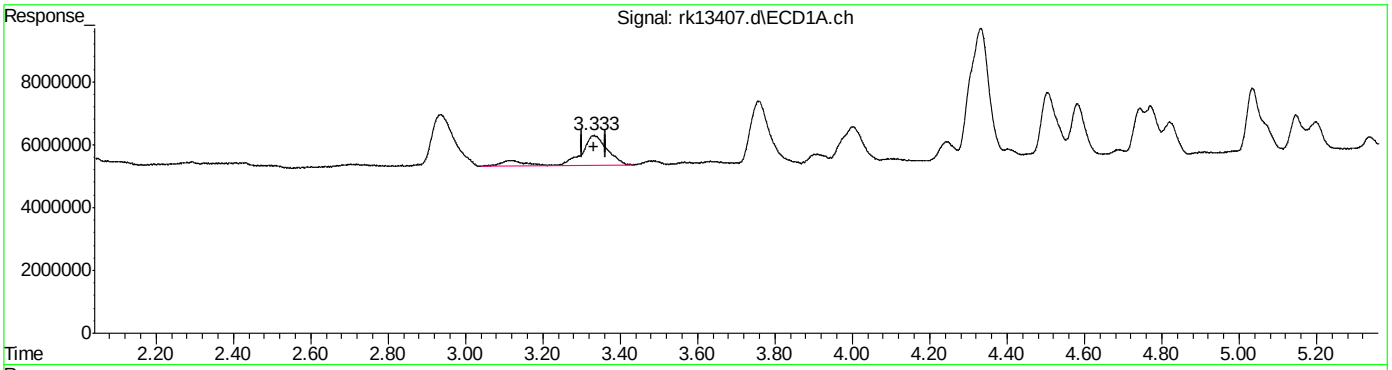
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-A		1	3.33	Poorly defined baseline
AR1016-B		2	4.85	Split peak
AR1016-C		2	5.49	Split peak
AR1260-E		1	8.79	Split peak
AR1260-C		2	9.52	Poorly defined baseline
AR1260-D		2	9.87	Poorly defined baseline
AR1260-E		2	10.42	Split peak

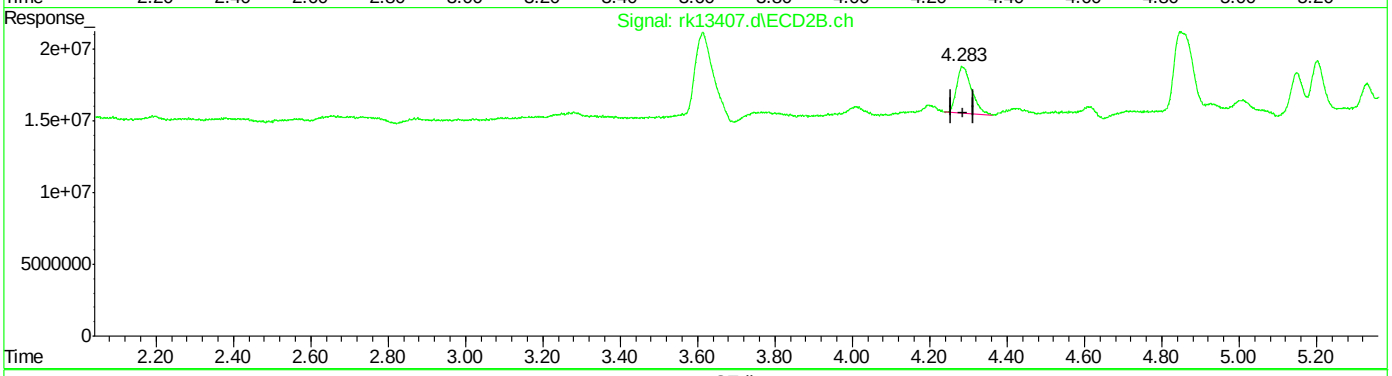
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(31) AR1016-A
3.333min 94.422 PPB
response 50114371

(31) AR1016-A #2
4.284min 75.975 PPB
response 85124534

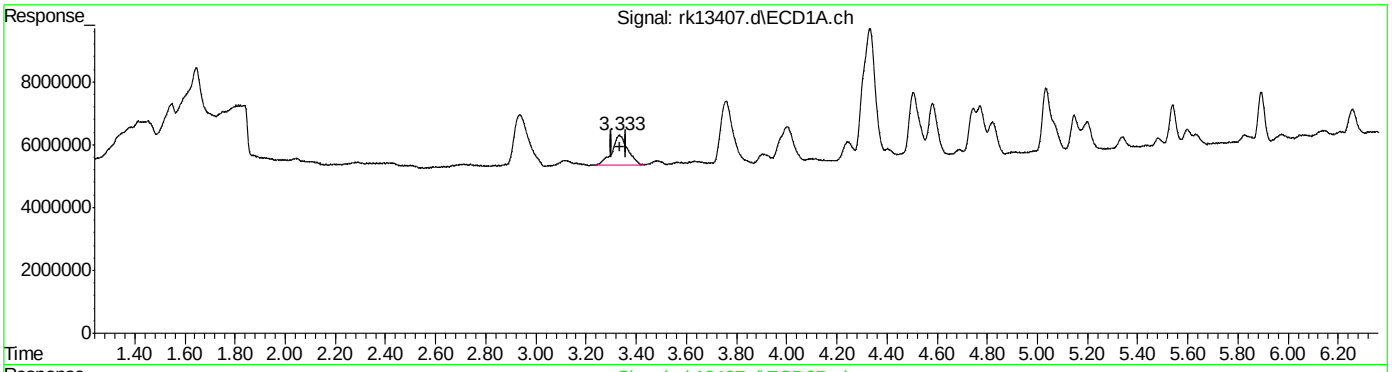
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:52:53 2022

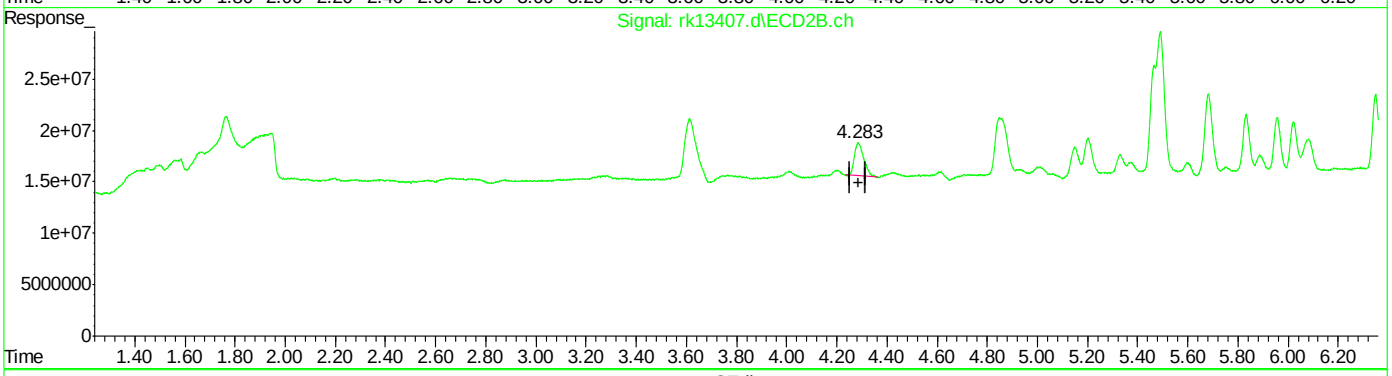
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(31) AR1016-A
3.333min 79.207 PPB m
response 42038906

(31) AR1016-A #2
4.284min 75.975 PPB
response 85124534

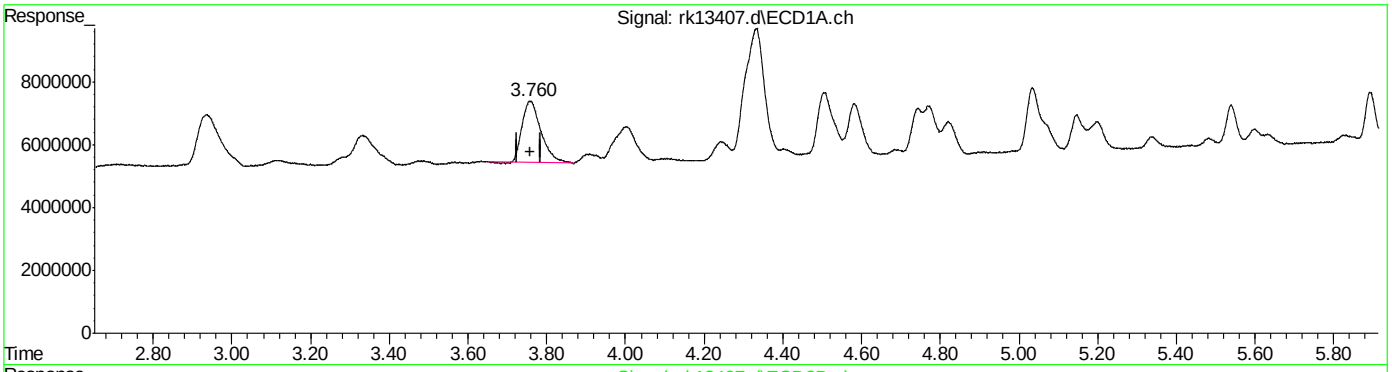
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:52:58 2022

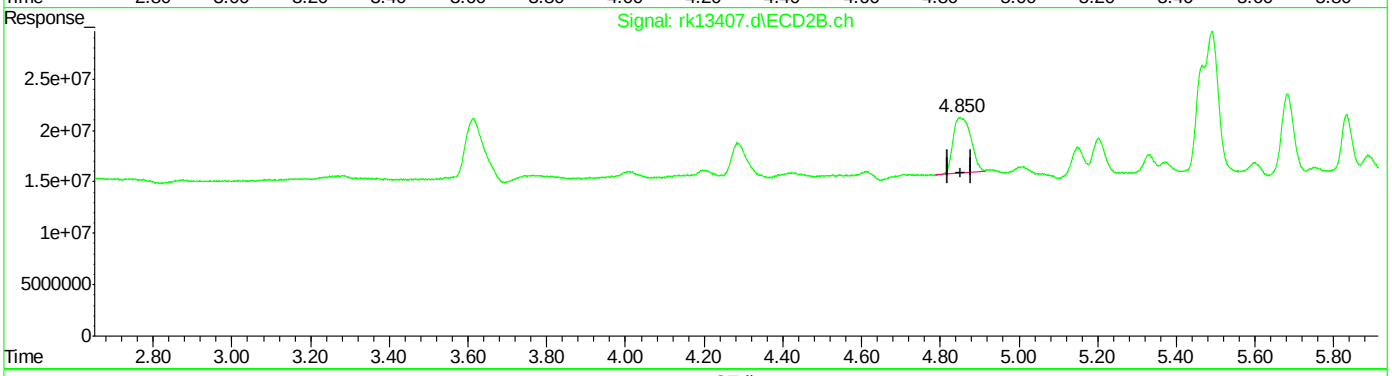
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.758min 71.650 PPB
response 65945414

(32) AR1016-B #2
4.851min 68.486 PPB
response 167855298

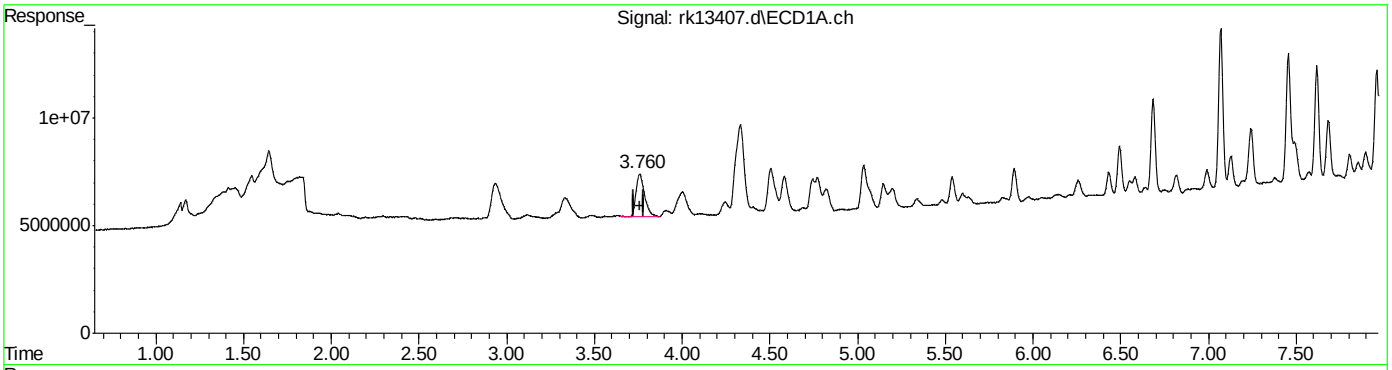
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:01 2022

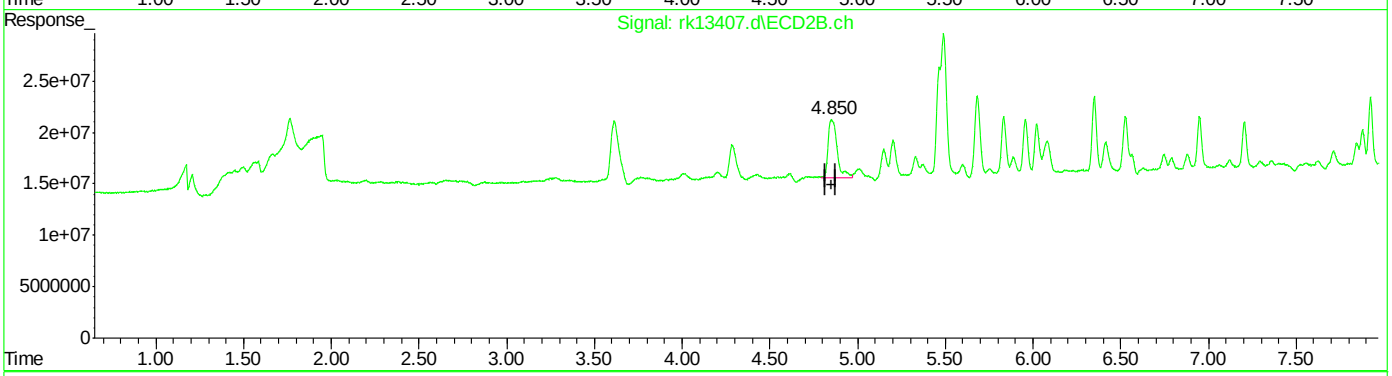
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.758min 71.650 PPB
response 65945414

(32) AR1016-B #2
4.850min 81.996 PPB m
response 200967413

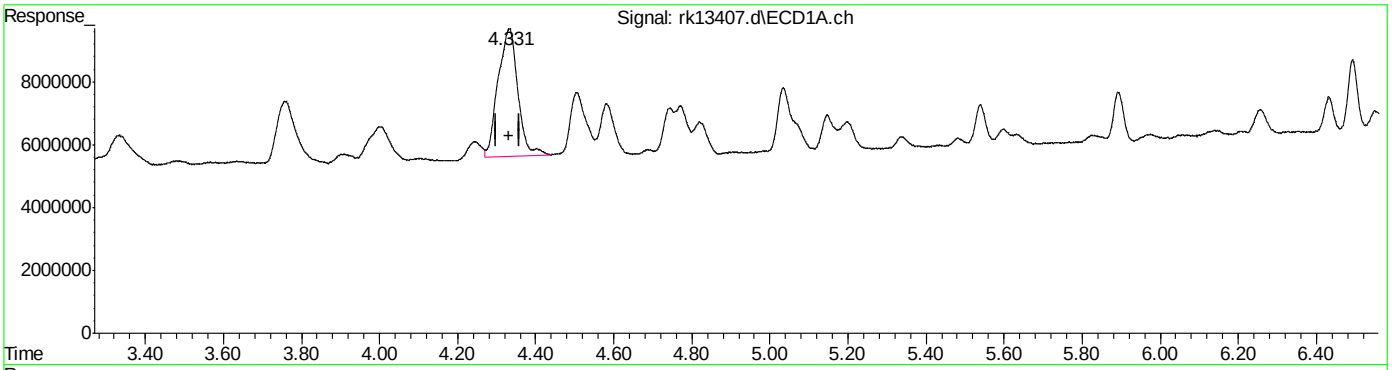
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:12 2022

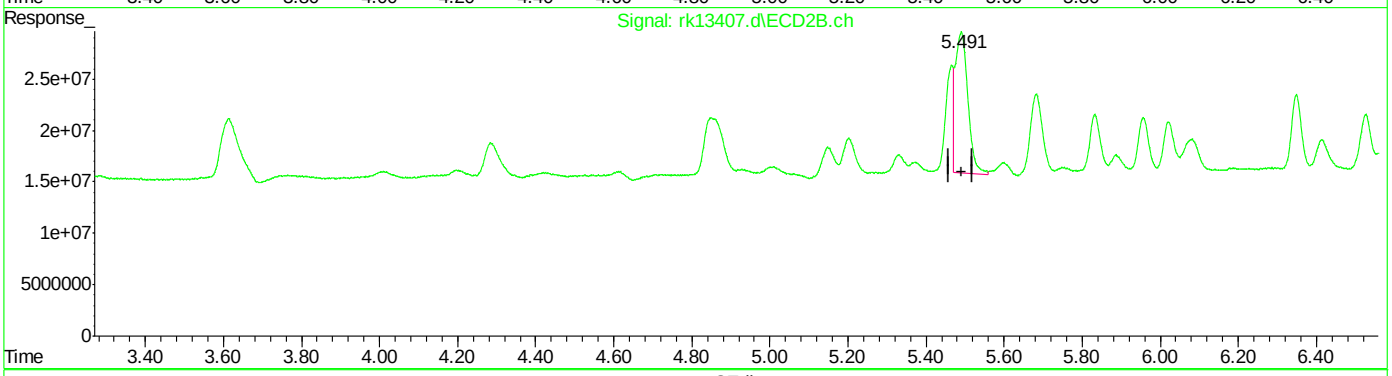
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C
4.332min 68.395 PPB
response 143170644

(33) AR1016-C #2
5.491min 56.298 PPB
response 306820670

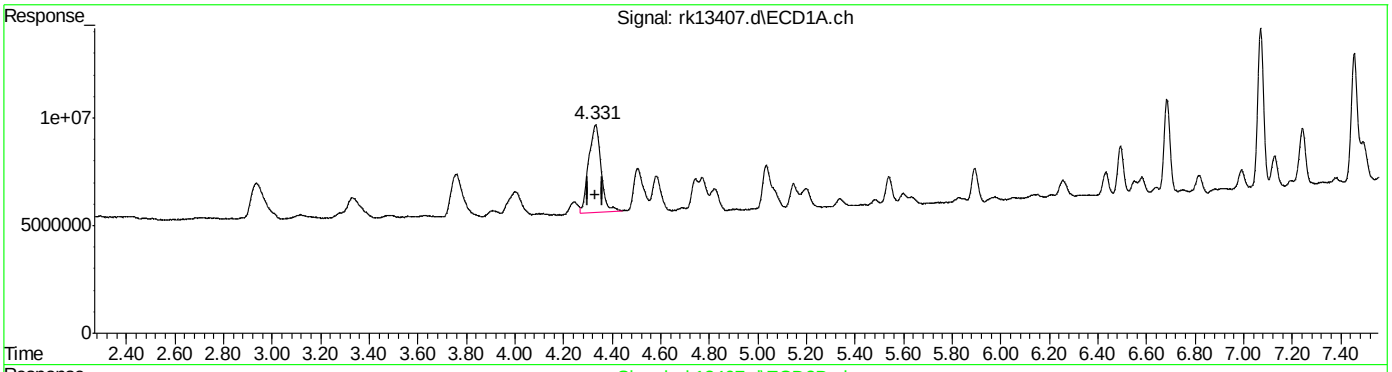
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:15 2022

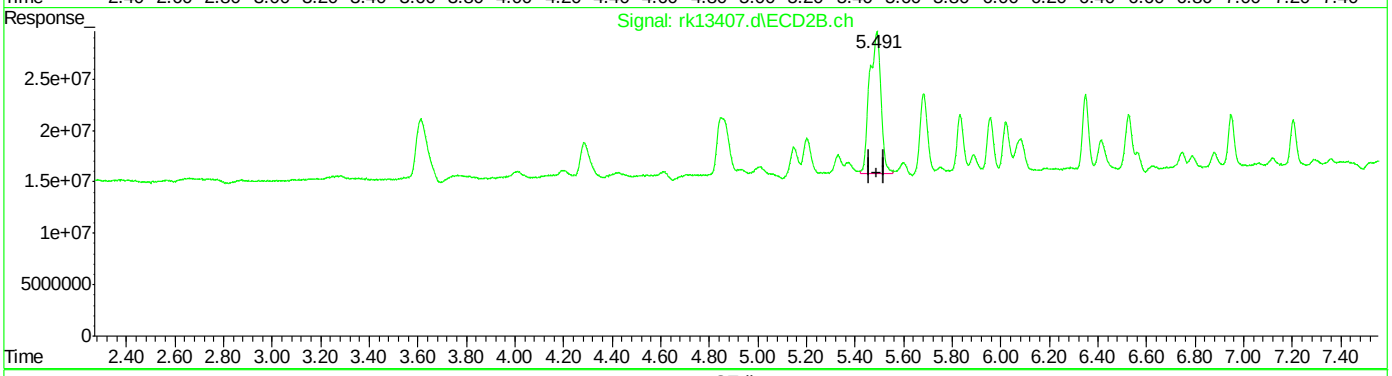
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C
4.332min 68.395 PPB
response 143170644

(33) AR1016-C #2
5.491min 82.233 PPB m
response 448165650

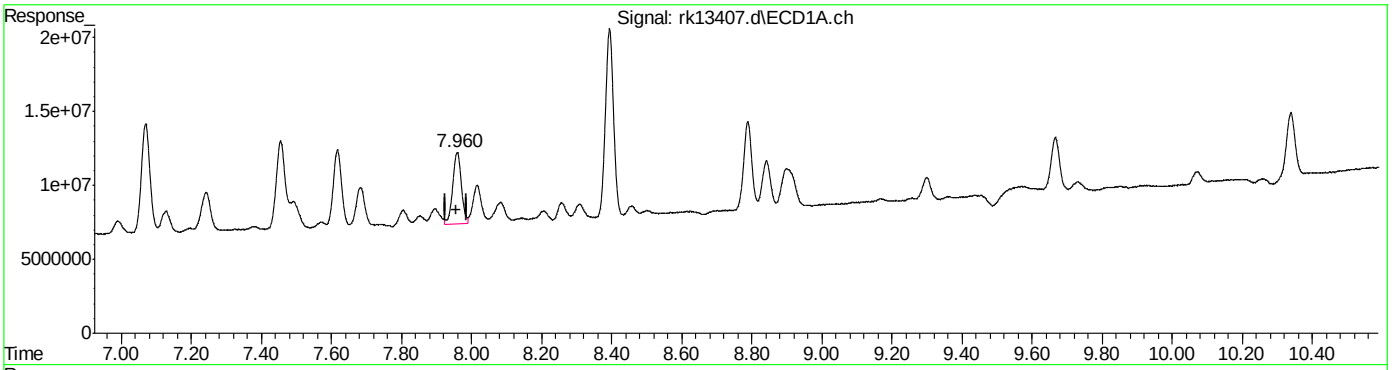
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:21 2022

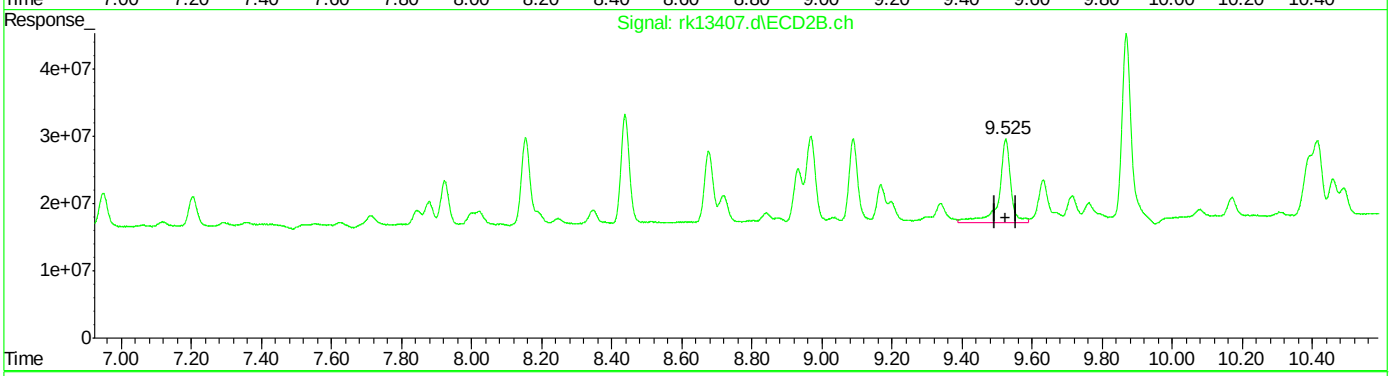
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(38) AR1260-C
7.959min 51.911 PPB
response 83514219

(38) AR1260-C #2
9.526min 116.562 PPB
response 295779423

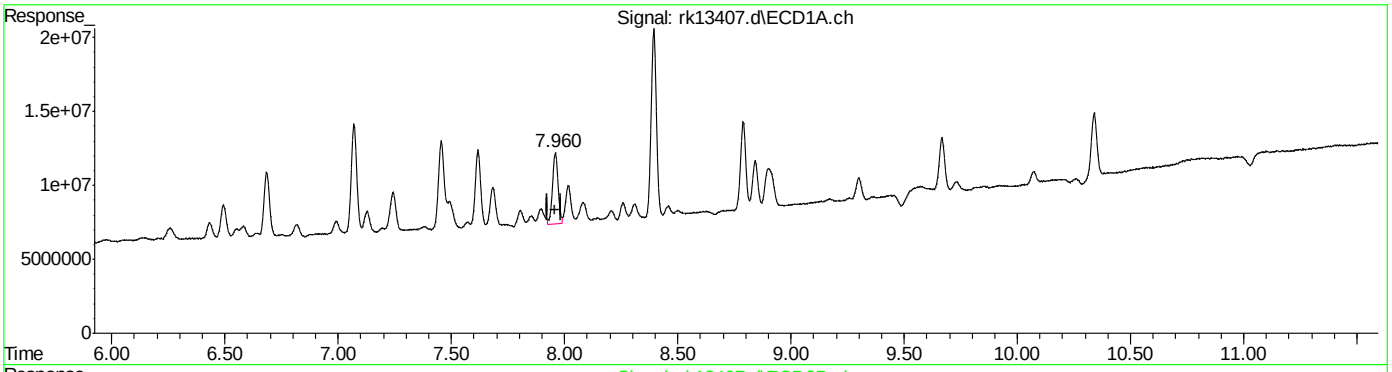
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:28 2022

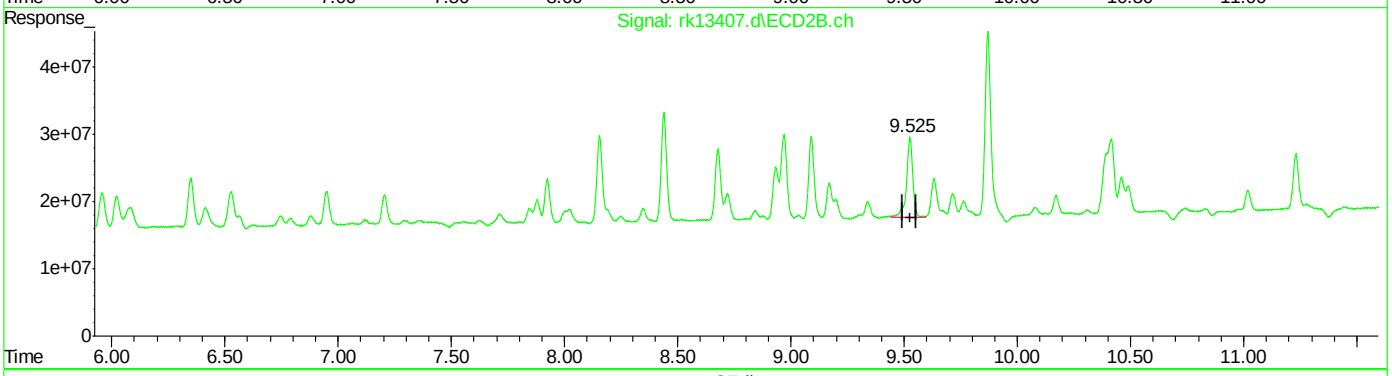
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(38) AR1260-C
7.959min 51.911 PPB
response 83514219

(38) AR1260-C #2
9.525min 91.864 PPB m
response 233107945

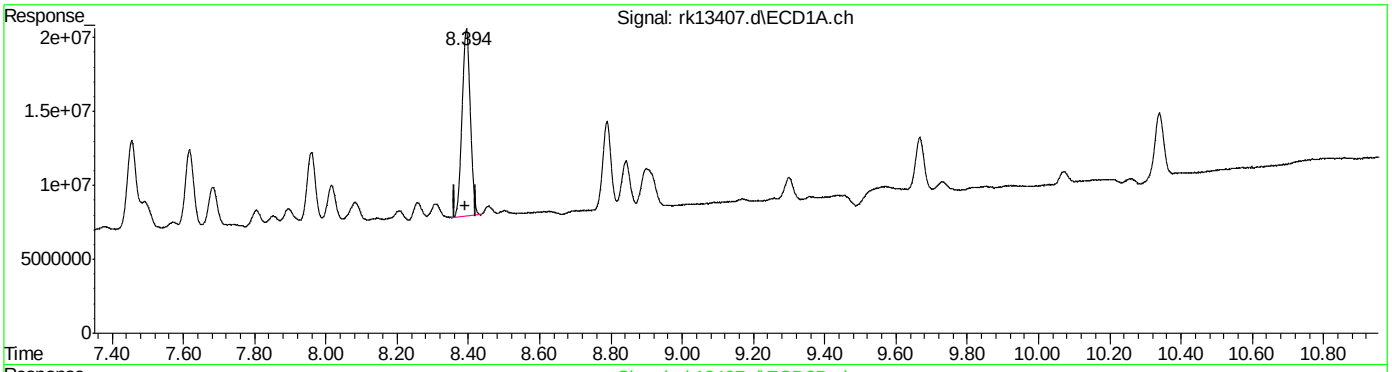
(+) = Expected Retention Time

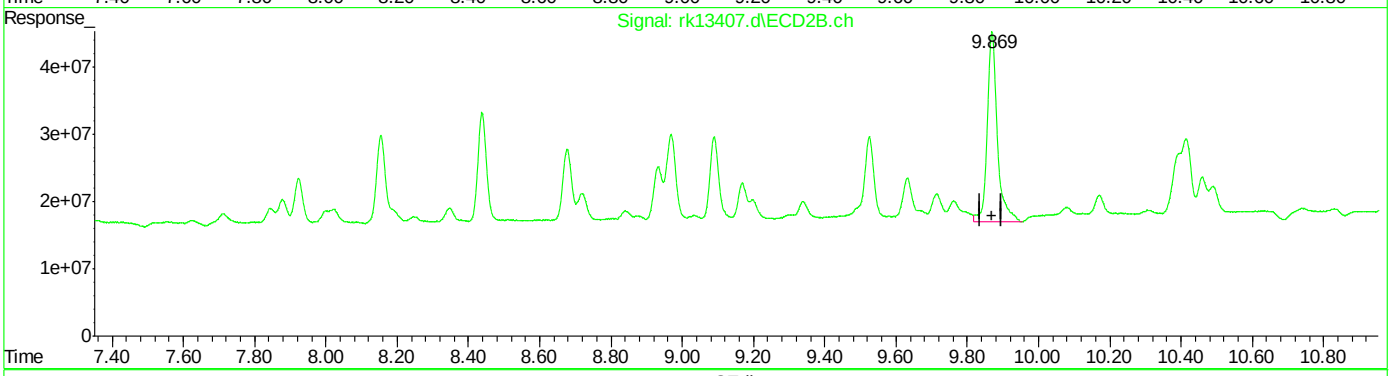
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(39) AR1260-D
8.394min 49.311 PPB
response 202705586

(39) AR1260-D #2
9.870min 99.569 PPB
response 557406227

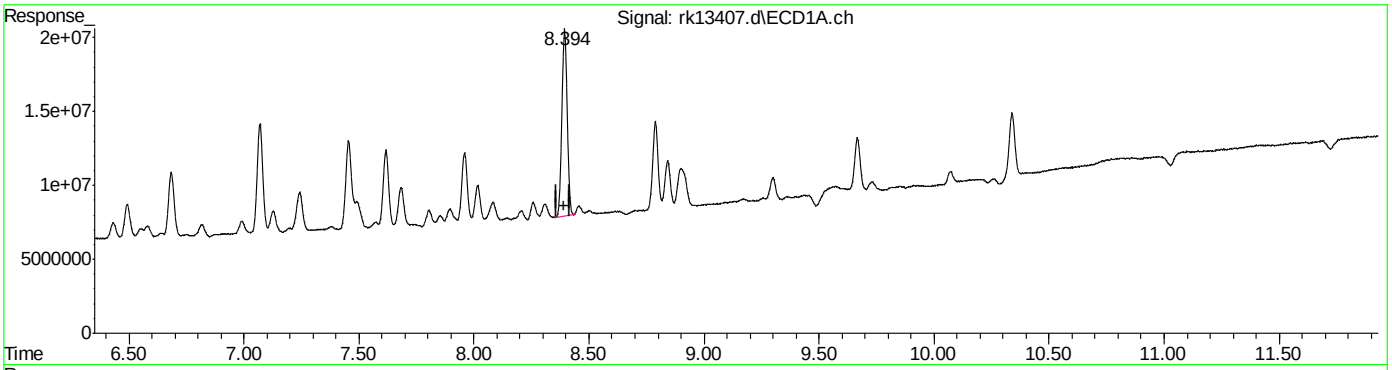
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:39 2022

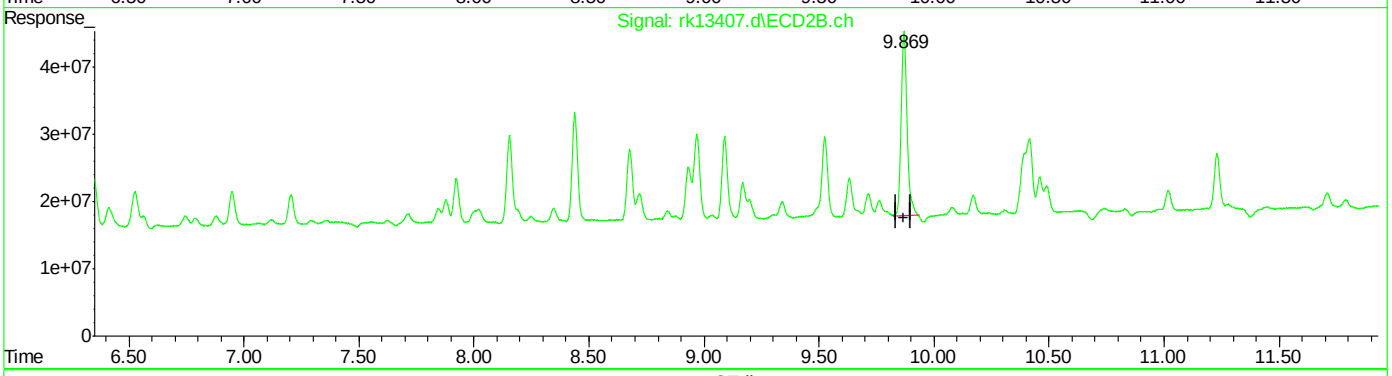
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(39) AR1260-D
8.394min 49.311 PPB
response 202705586

(39) AR1260-D #2
9.869min 87.748 PPB m
response 491227017

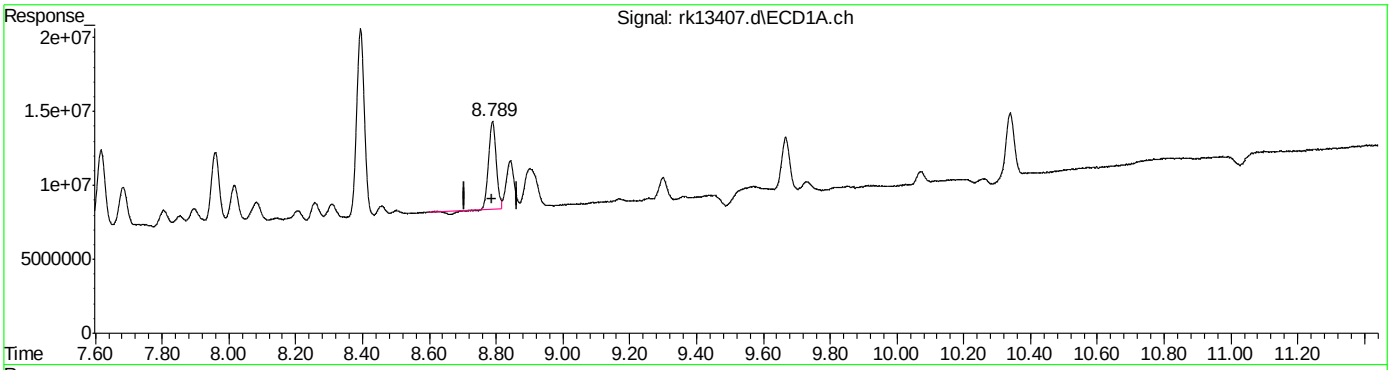
(+) = Expected Retention Time

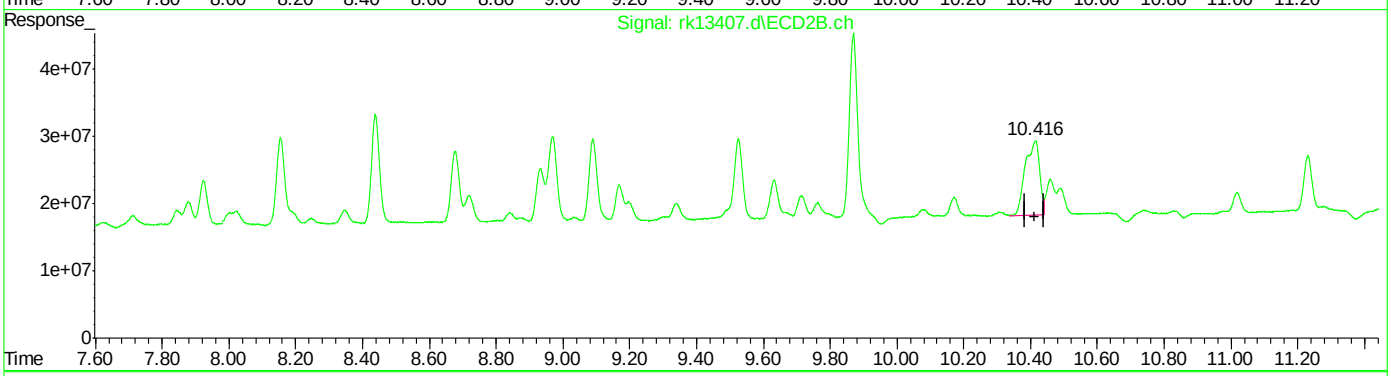
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.789min 21.657 PPB
response 88733797

(40) AR1260-E #2
10.415min 59.360 PPB
response 331582491

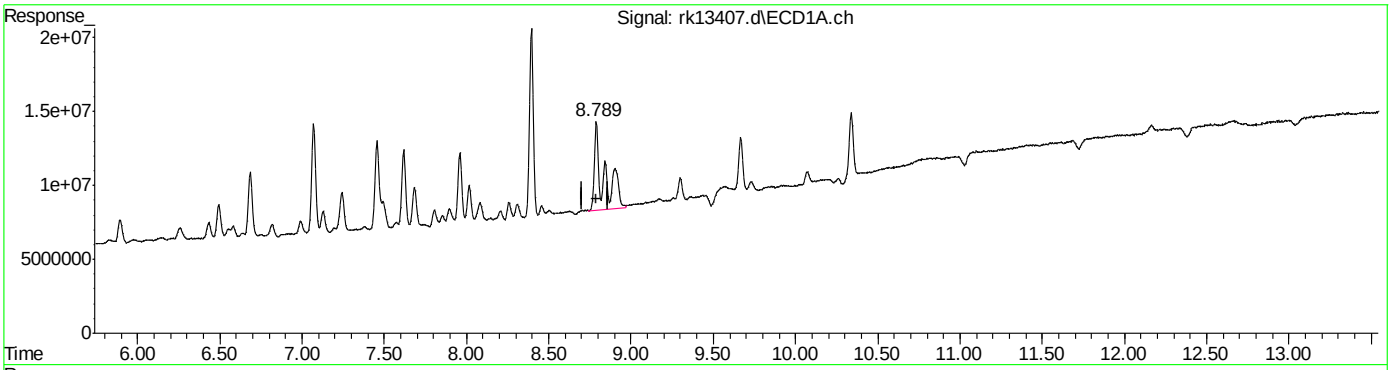
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:46 2022

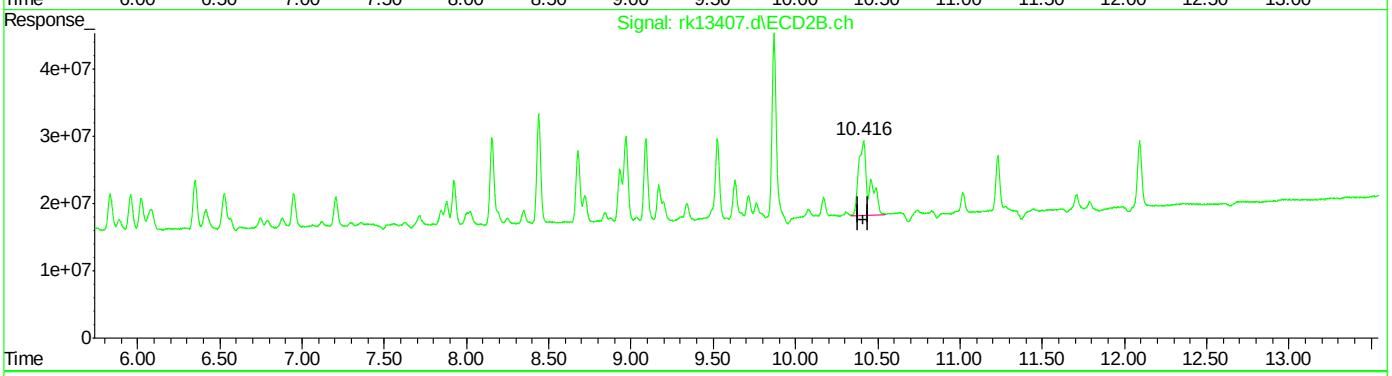
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13407.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:39 pm
Operator : chorngli
Sample : ic339-50
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:42 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.789min 55.231 PPB m
response 226298816

(40) AR1260-E #2
10.416min 87.060 PPB m
response 486313899

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:53:54 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:56 pm
Operator : chorngli
Sample : ic339-250
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1) S	Tetrachlo...	2.936	3.614	332.2E6	973.0E6	10.500	13.349	#
Spiked Amount	40.000			Recovery	=	26.25%	33.37%	
51) S	Decachlor...	10.338	12.092	362.4E6	779.4E6	11.916	15.657	#
Spiked Amount	40.000			Recovery	=	29.79%	39.14%	
	Target Compounds							
31)	AR1016-A	3.334	4.286	173.0E6	408.6E6	325.940	364.706	
32)	AR1016-B	3.757	4.849	309.4E6	941.1E6	336.149	383.965m	
33)	AR1016-C	4.332	5.489	723.3E6	2004.3E6	345.534	367.768m	
34)	AR1016-D	4.504	5.682	270.4E6	799.9E6	322.012	397.416	
35)	AR1016-E	5.034	6.349	275.4E6	637.8E6	325.453	403.243	
36)	AR1260-A	7.069	8.438	605.7E6	1251.4E6	233.557	405.431	#
37)	AR1260-B	7.617	9.089	461.8E6	985.7E6	244.220	417.243	#
38)	AR1260-C	7.958	9.525	421.5E6	1135.3E6	261.992	447.400	#
39)	AR1260-D	8.393	9.869	1024.6E6	2412.3E6	249.257	430.917	#
40)	AR1260-E	8.787	10.415	1039.6E6	2315.7E6	253.722m	414.559m	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.31

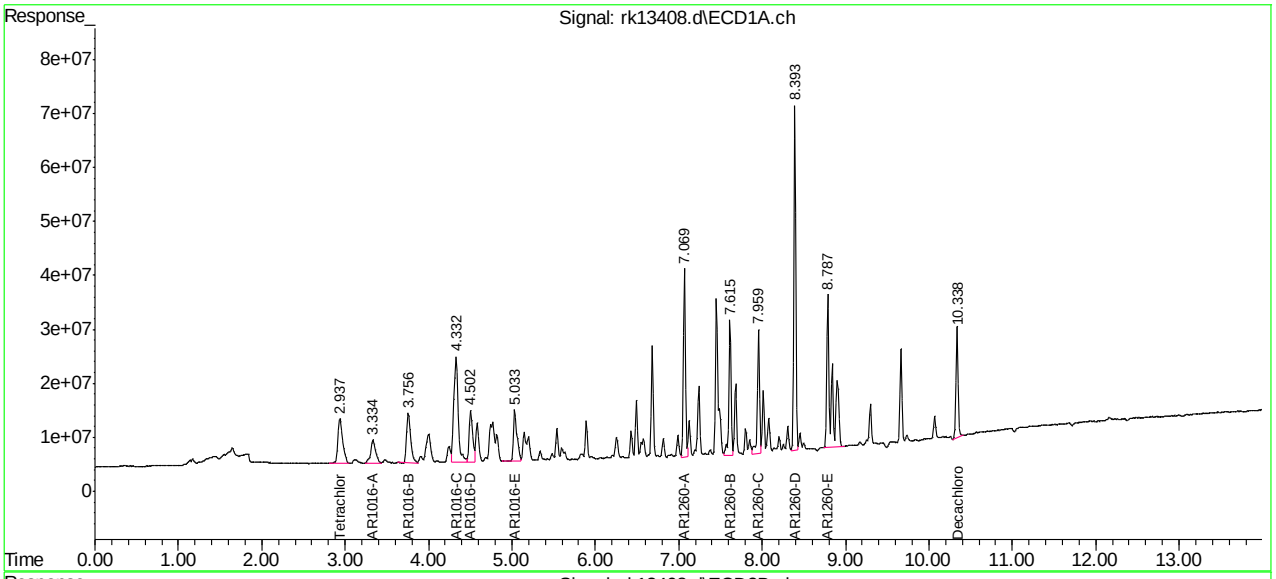
9

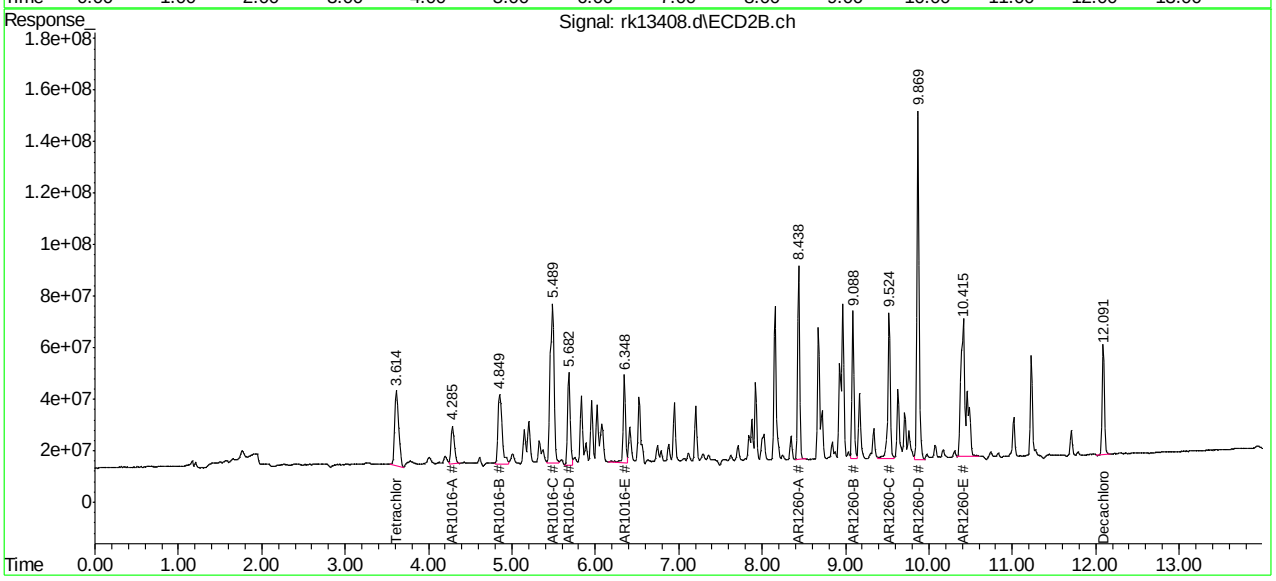
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:56 pm
Operator : chorngli
Sample : ic339-250
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:52:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13408.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 17:56	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

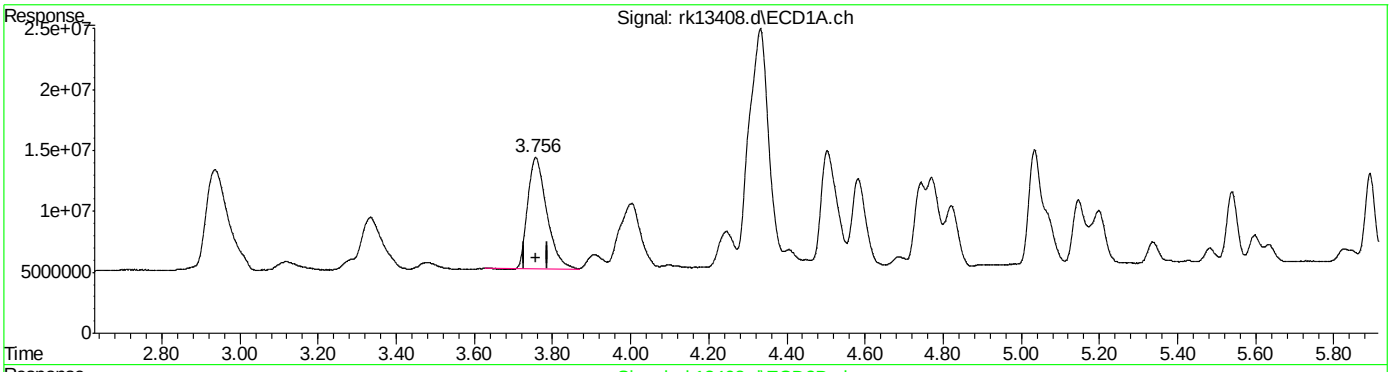
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-B		2	4.85	Split peak
AR1016-C		2	5.49	Split peak
AR1260-E		1	8.79	Split peak
AR1260-E		2	10.41	Split peak

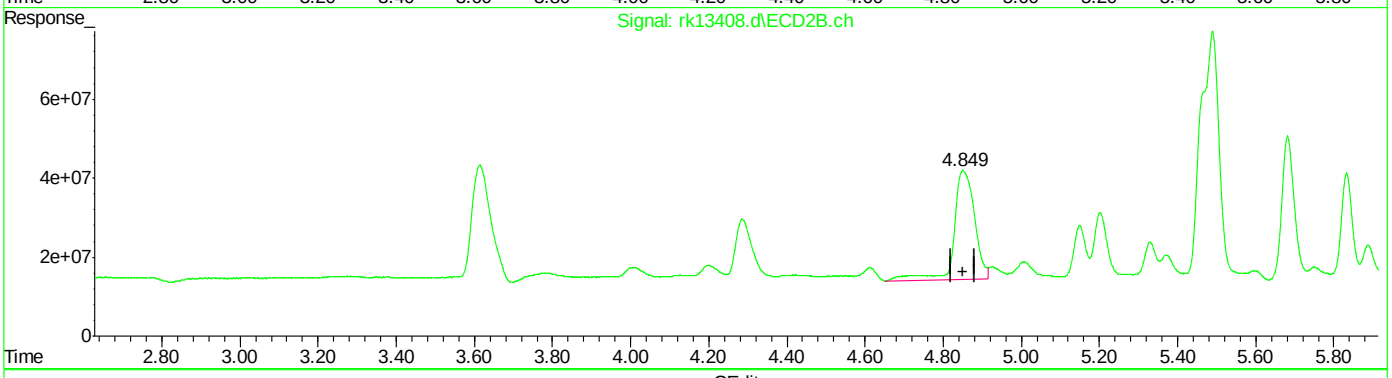
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:56 pm
Operator : chorngli
Sample : ic339-250
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:51:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.757min 336.149 PPB
response 309385437

(32) AR1016-B #2
4.851min 412.420 PPB
response 1010822008

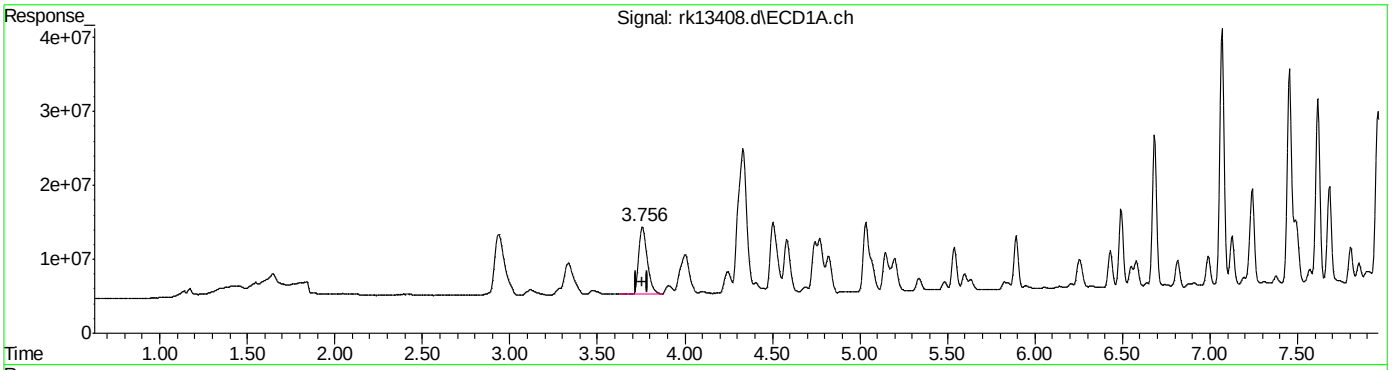
(+) = Expected Retention Time

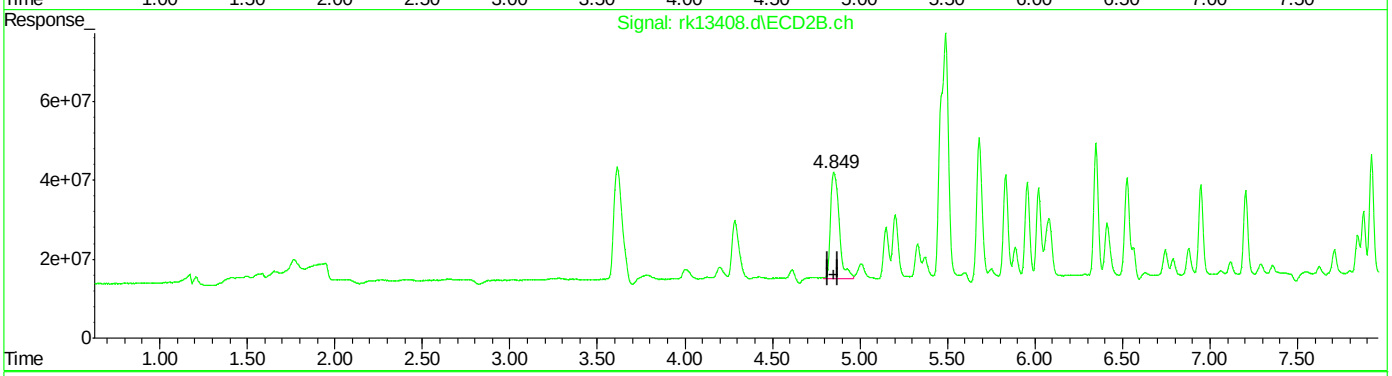
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:56 pm
Operator : chorngli
Sample : ic339-250
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:51:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

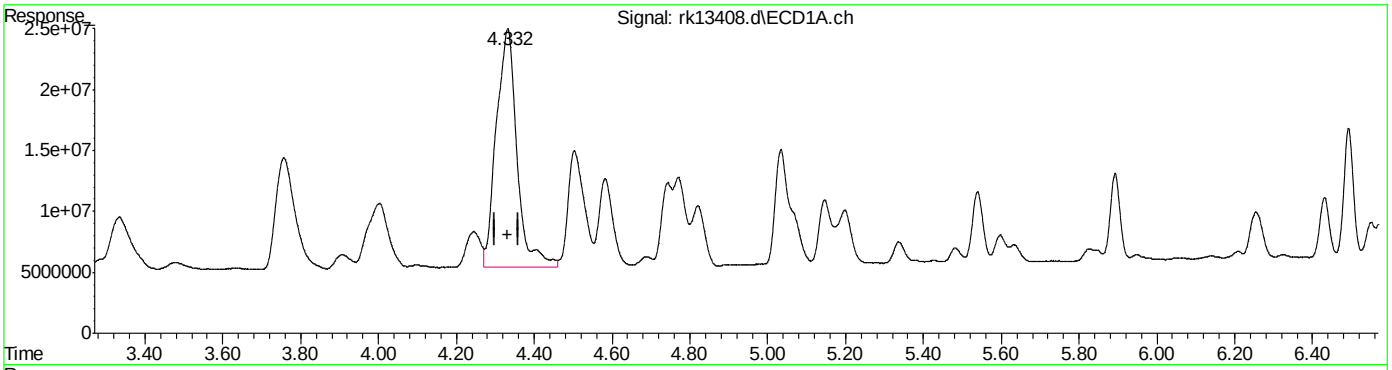
(32) AR1016-B
3.757min 336.149 PPB
response 309385437

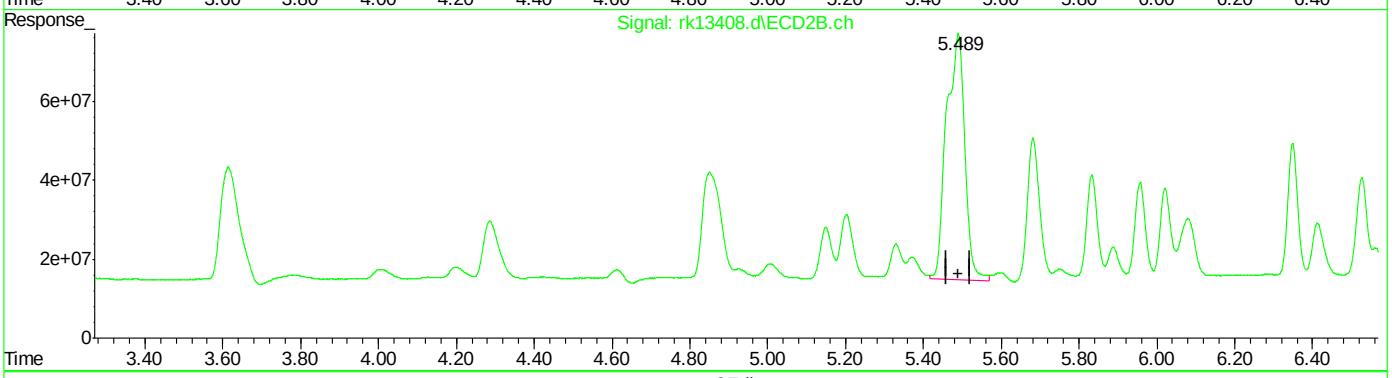
(32) AR1016-B #2
4.849min 383.965 PPB m
response 941078419

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:51:38 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 25 Jul 2022   5:56 pm
Operator  : chorngli
Sample    : ic339-250
Misc      : op40458,grk339,16.4,,,10,1
ALS Vial  : 81   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:51:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(33) AR1016-C
4.332min 345.534 PPB
response 723303649

(33) AR1016-C #2
5.490min 375.090 PPB
response 2044224981

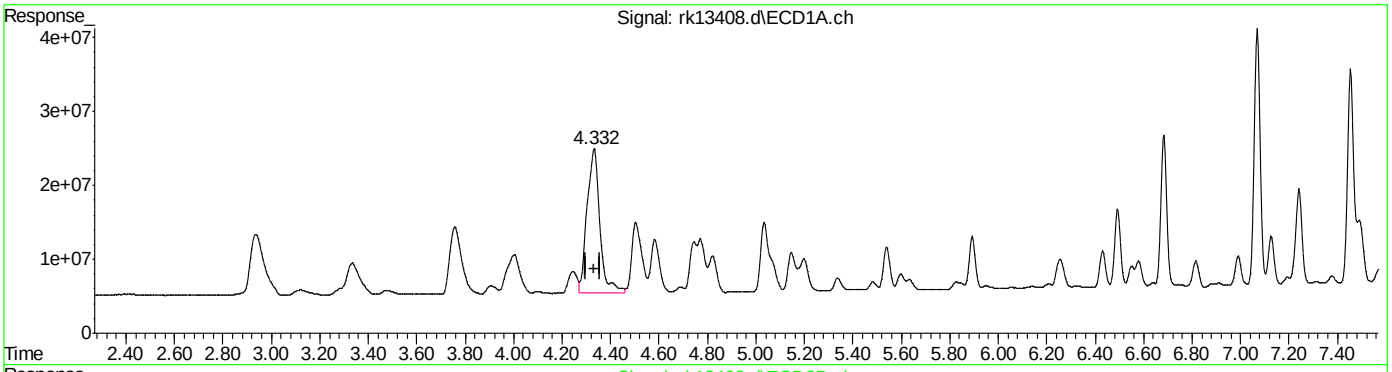
(+) = Expected Retention Time

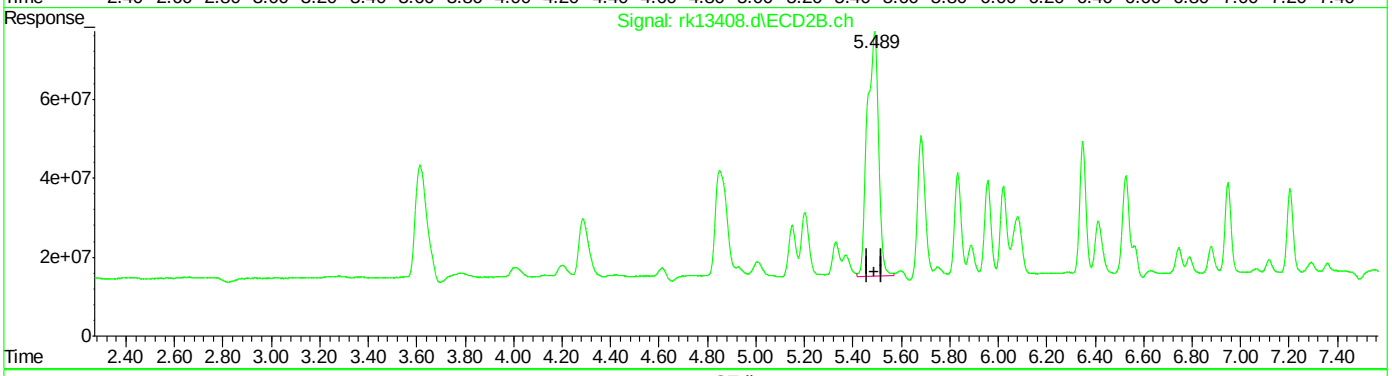
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:56 pm
Operator : chorngli
Sample : ic339-250
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:51:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C
4.332min 345.534 PPB
response 723303649

(33) AR1016-C #2
5.489min 367.768 PPB m
response 2004319568

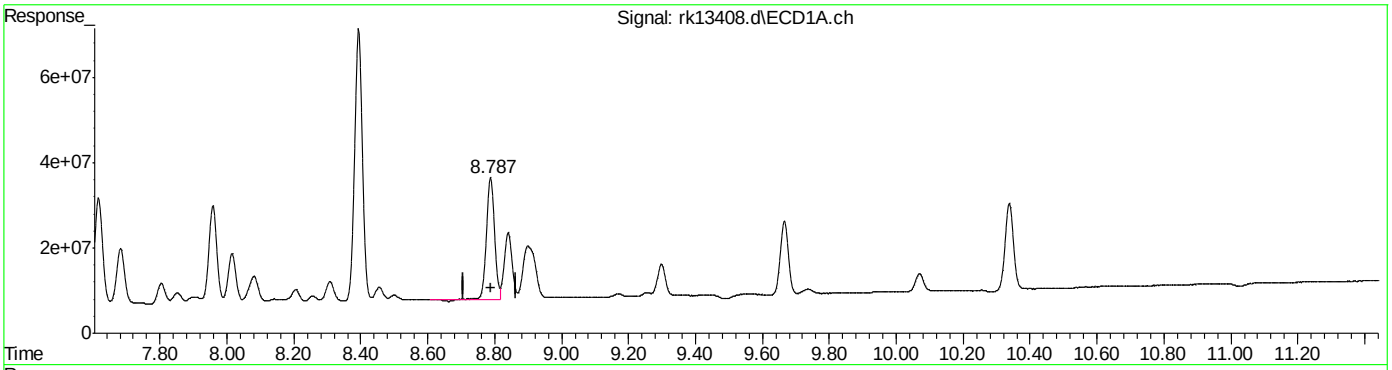
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:51:47 2022

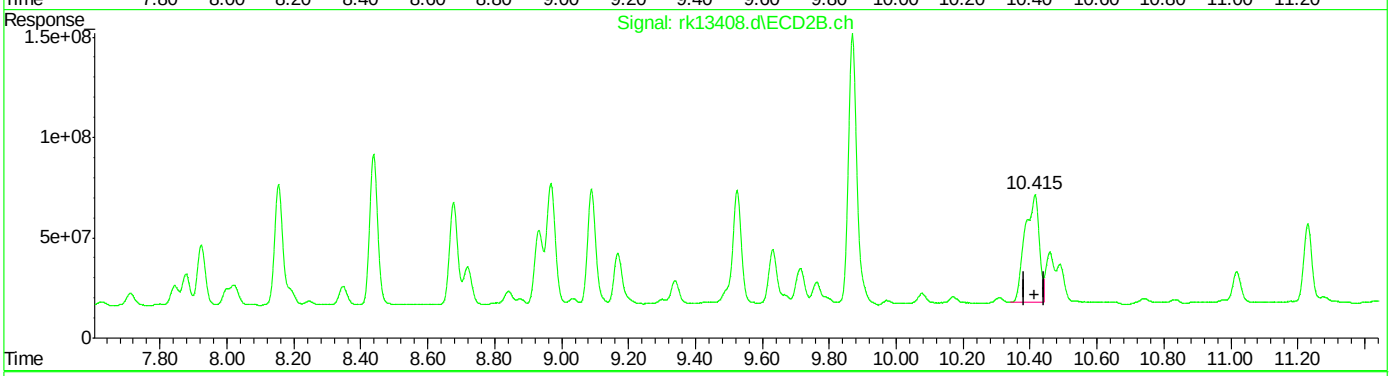
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:56 pm
Operator : chorngli
Sample : ic339-250
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:51:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.788min 115.866 PPB
response 474737943

(40) AR1260-E #2
10.415min 282.361 PPB
response 1577255496

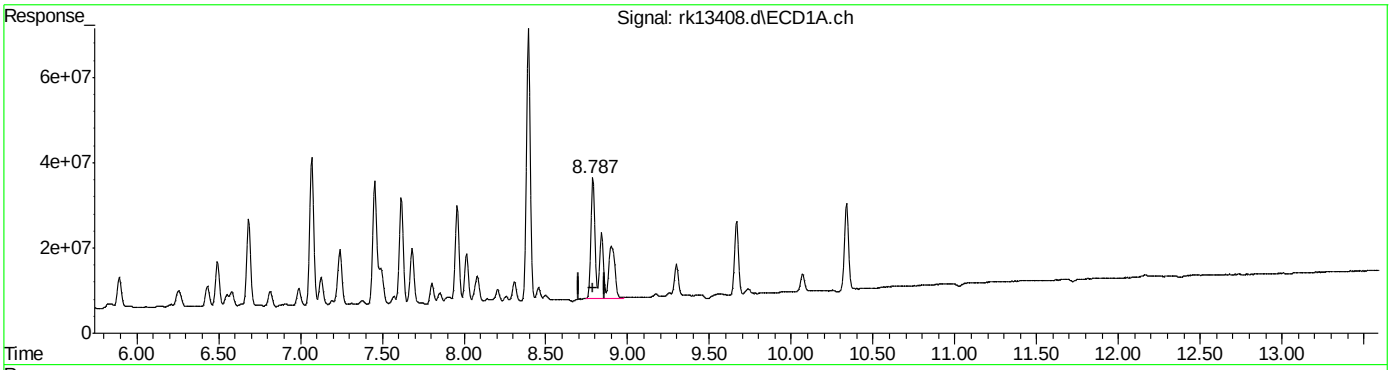
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:51:58 2022

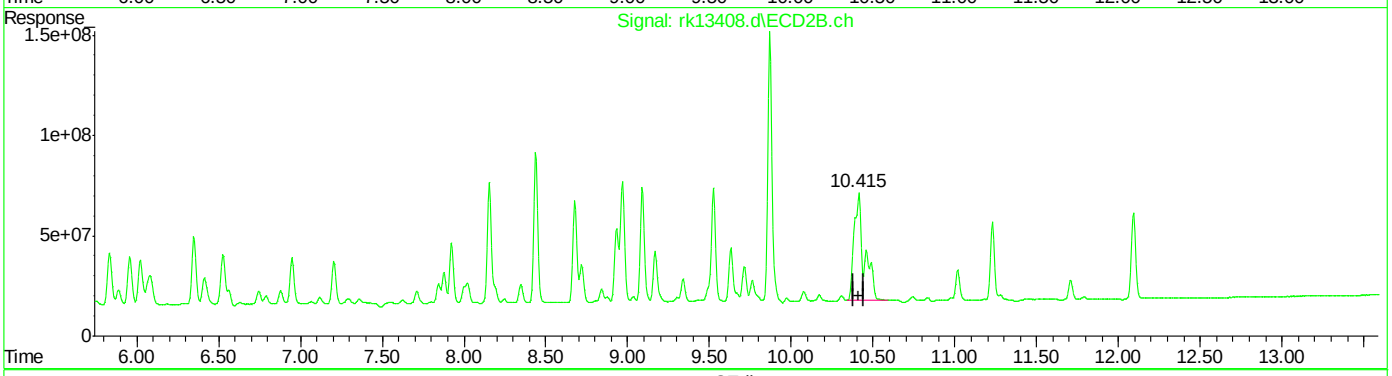
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13408.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 5:56 pm
Operator : chorngli
Sample : ic339-250
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:51:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 253.722 PPB m
response 1039571453

(40) AR1260-E #2
10.415min 414.559 PPB m
response 2315702667

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:52:07 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:50:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1) S	Tetrachlo...	2.937	3.613	698.7E6	1934.1E6	22.081	26.535	
Spiked Amount	40.000			Recovery	=	55.20%	66.34%	
51) S	Decachlor...	10.336	12.092	695.7E6	1584.0E6	22.876m	31.821	#
Spiked Amount	40.000			Recovery	=	57.19%	79.55%	
	Target Compounds							
31)	AR1016-A	3.333	4.286	341.6E6	808.7E6	643.605	721.788	
32)	AR1016-B	3.757	4.847	609.8E6	1820.0E6	662.544	742.553m	
33)	AR1016-C	4.331	5.491	1435.9E6	3901.9E6	685.964	715.943	
34)	AR1016-D	4.504	5.681	528.4E6	1484.9E6	629.378	737.706	
35)	AR1016-E	5.034	6.349	529.9E6	1191.3E6	626.157	753.188	
36)	AR1260-A	7.069	8.439	1181.8E6	2530.8E6	455.675	819.942	#
37)	AR1260-B	7.616	9.090	884.5E6	1979.2E6	467.766	837.777	#
38)	AR1260-C	7.958	9.526	796.5E6	2119.3E6	495.110	835.172	#
39)	AR1260-D	8.393	9.870	2081.6E6	4771.9E6	506.378	852.407	#
40)	AR1260-E	8.787	10.414	2105.3E6	4680.7E6	513.833m	837.945m	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

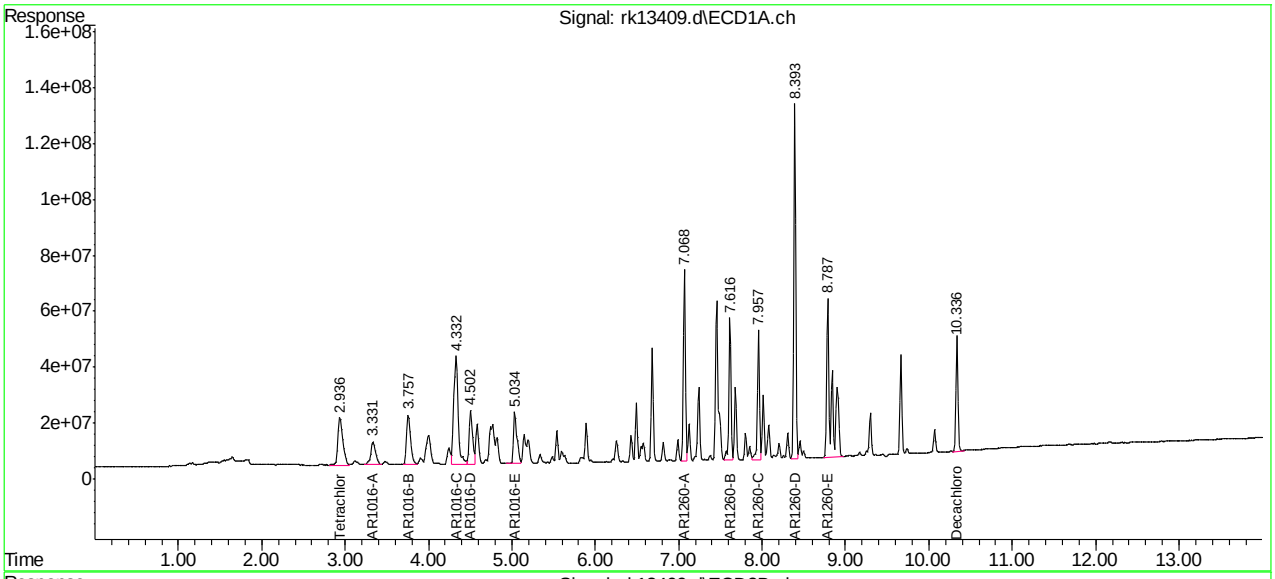
9.6.32
9

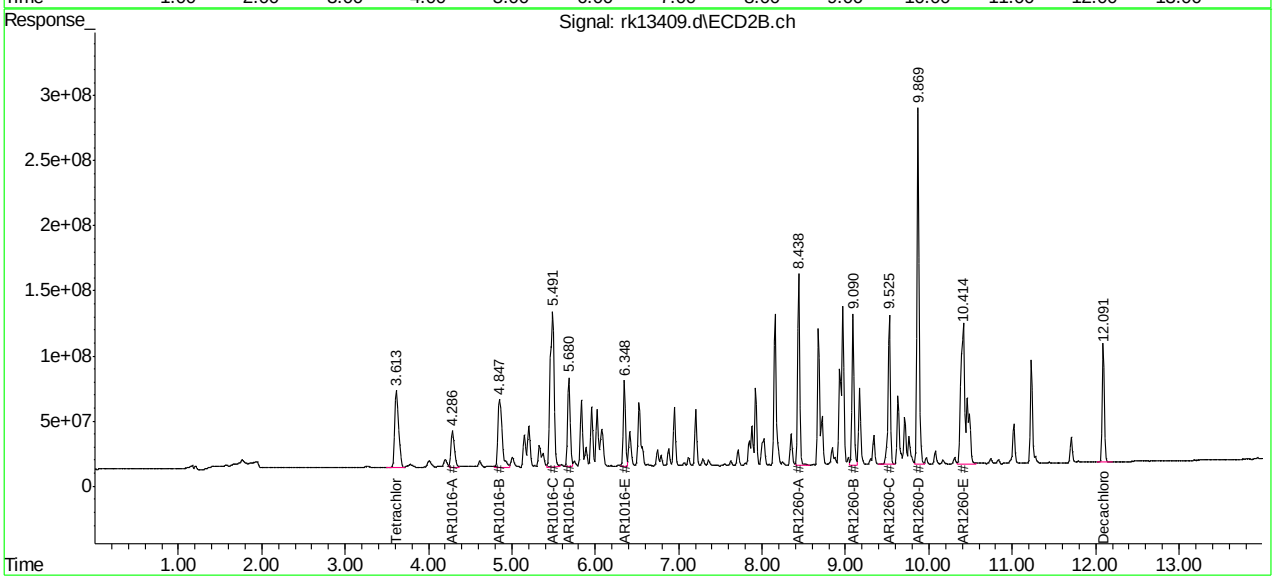
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:50:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13409.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 18:12	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

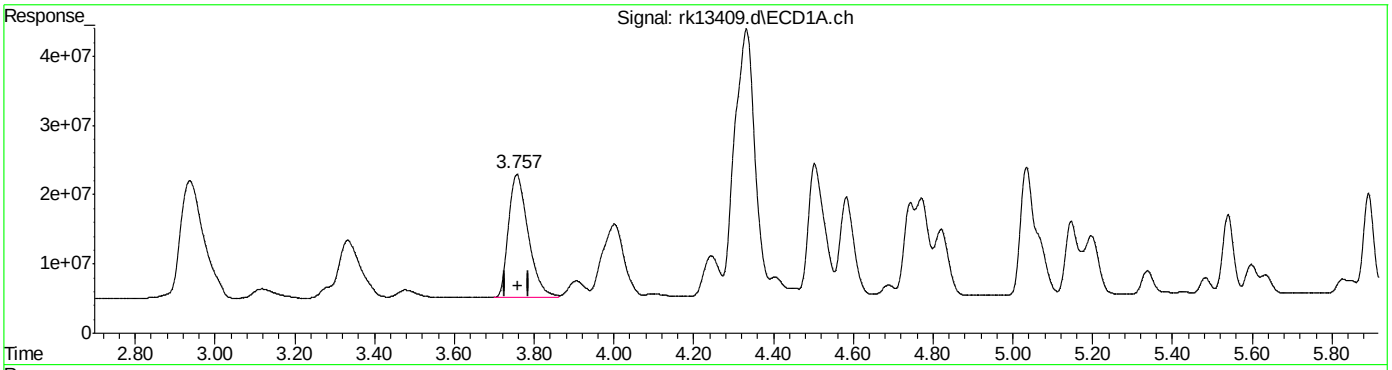
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-B		2	4.85	Split peak
AR1260-E		1	8.79	Split peak
Decachlorobiphenyl	2051-24-3	1	10.34	Poorly defined baseline
AR1260-E		2	10.41	Split peak

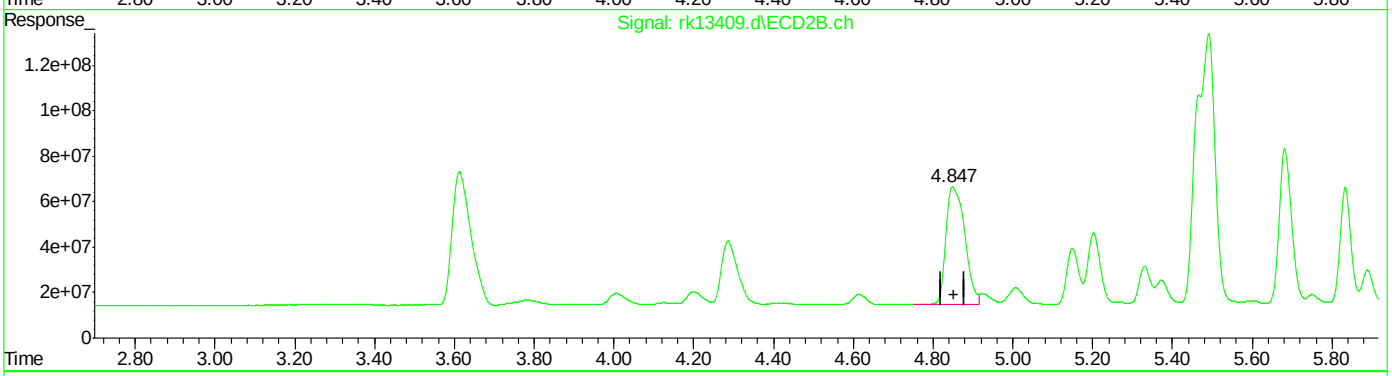
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.757min 662.544 PPB
response 609793850

(32) AR1016-B #2
4.849min 702.626 PPB
response 1722101106

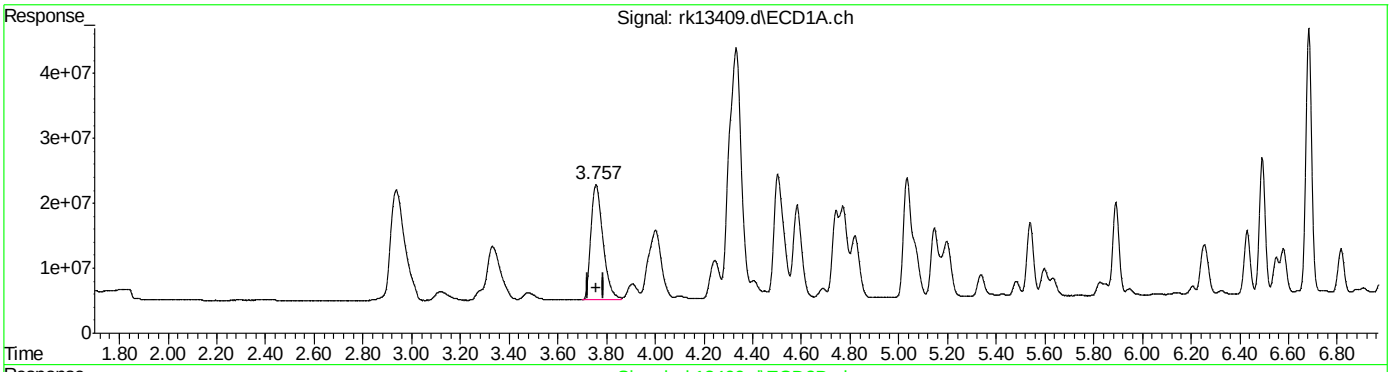
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:49:45 2022

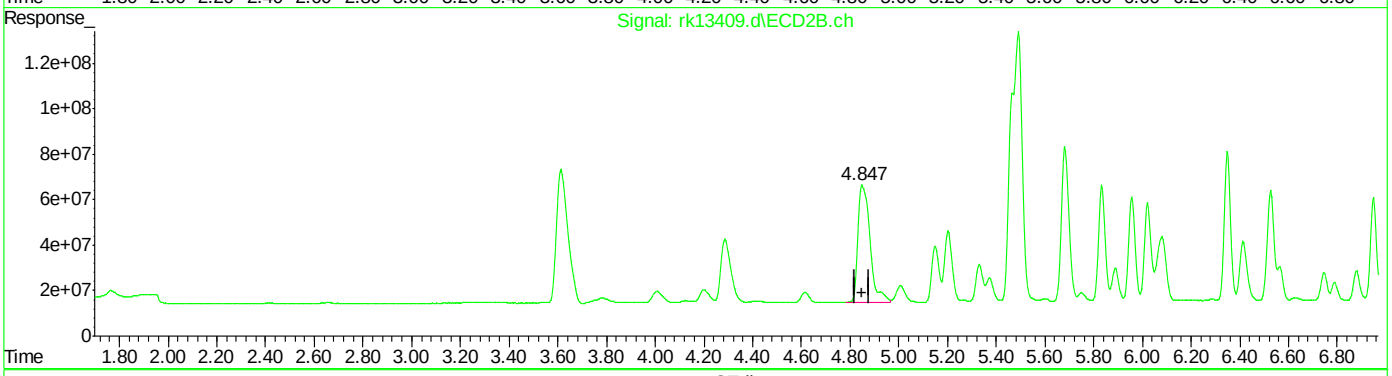
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.757min 662.544 PPB
response 609793850

(32) AR1016-B #2
4.847min 742.553 PPB m
response 1819961239

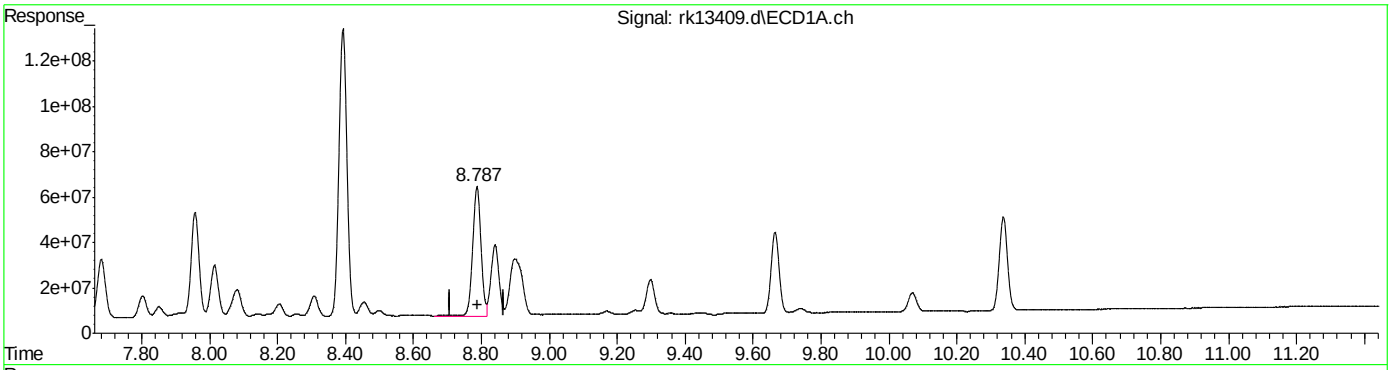
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:49:52 2022

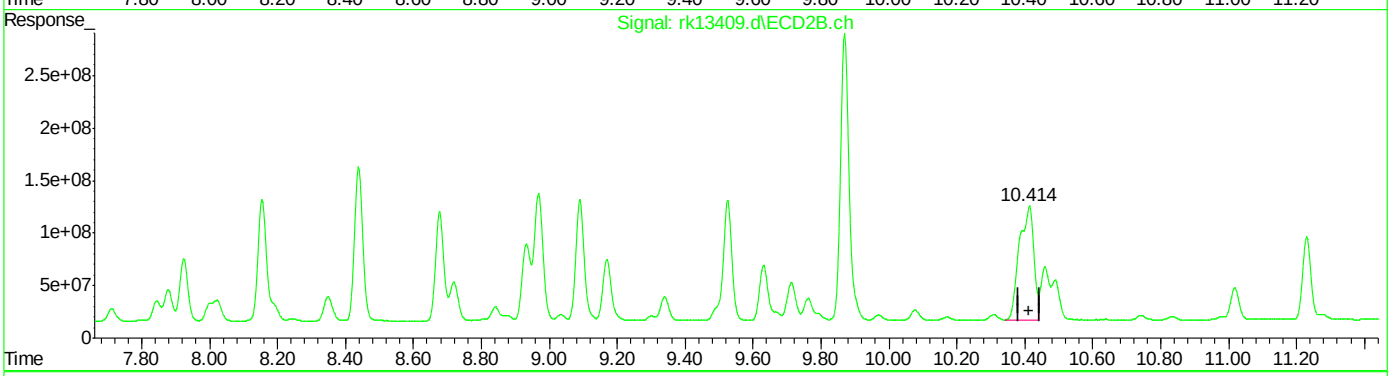
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 238.672 PPB
response 977908958

(40) AR1260-E #2
10.414min 574.009 PPB
response 3206385186

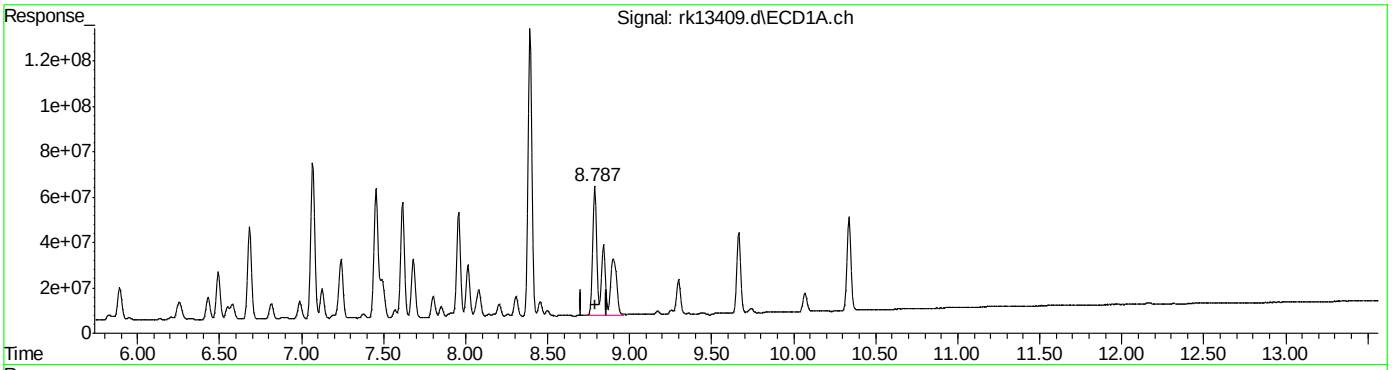
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:49:59 2022

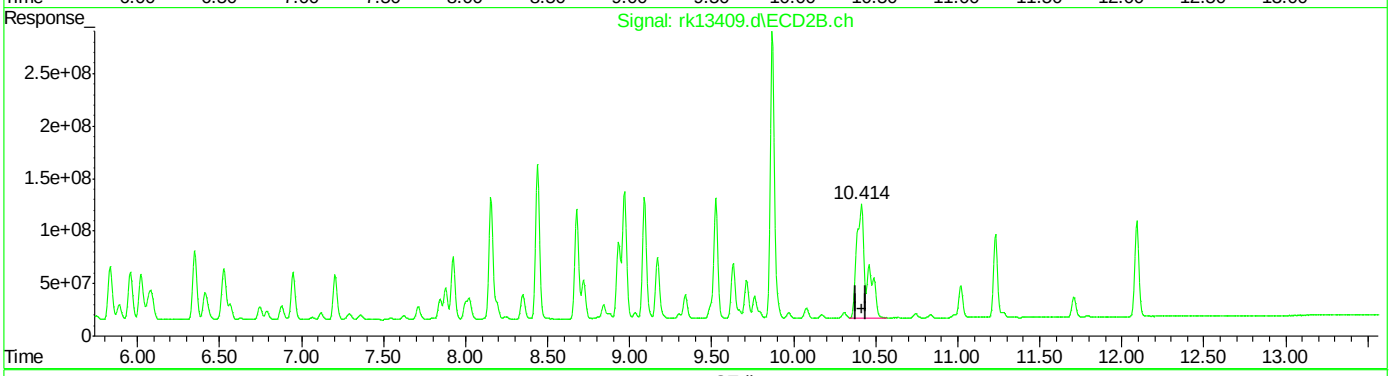
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 513.833 PPB m
response 2105324251

(40) AR1260-E #2
10.414min 837.945 PPB m
response 4680715587

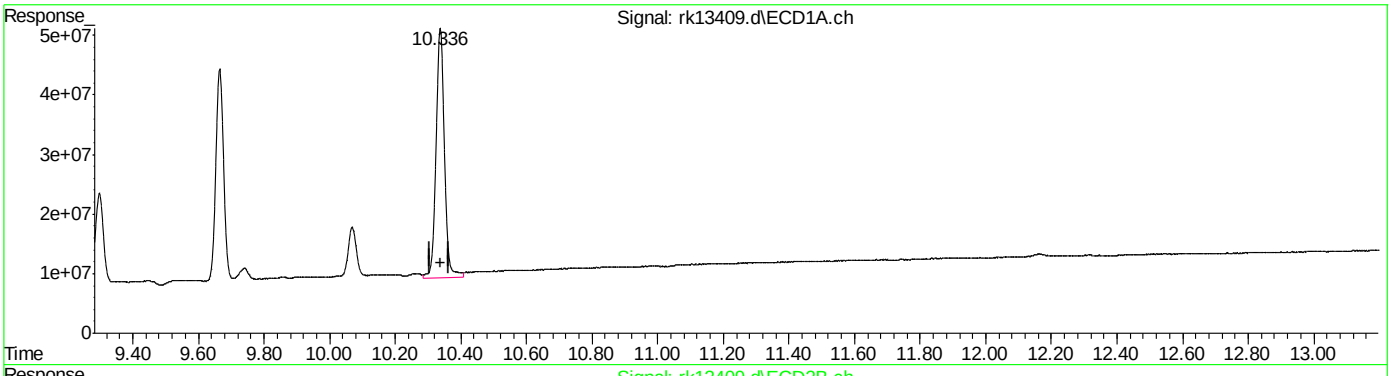
(+) = Expected Retention Time

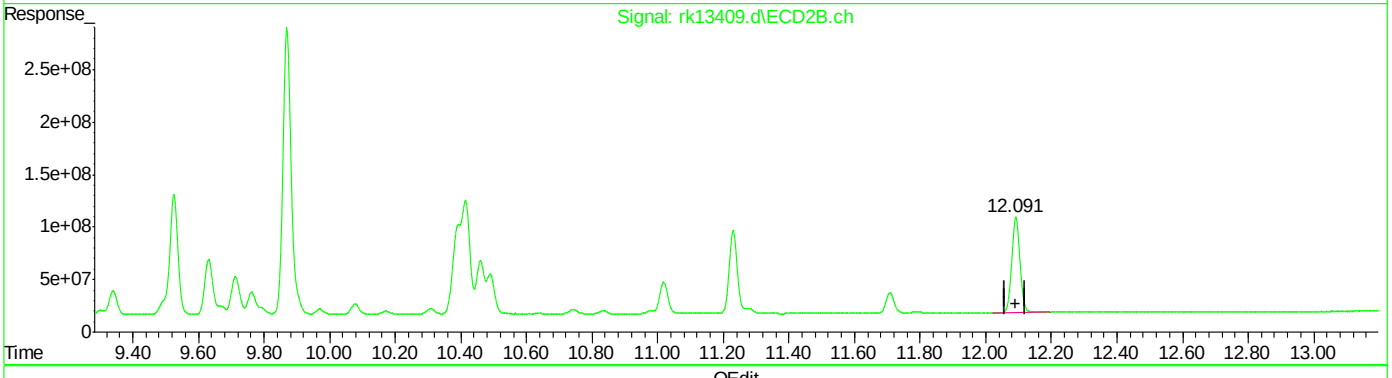
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)
10.337min 24.367 ppb
response 741029155

(51) Decachlorobiphenyl #2 (S)
12.092min 31.821 ppb
response 1584045805

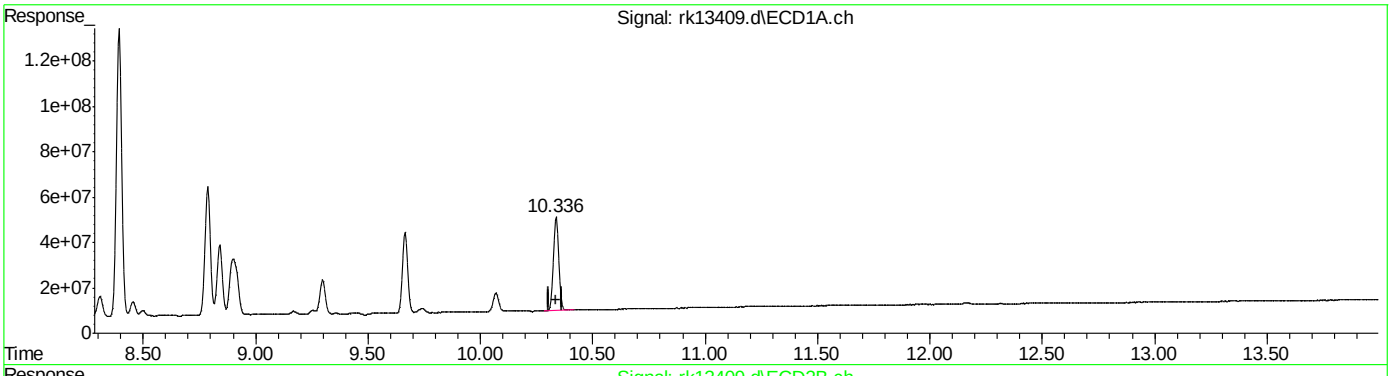
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:50:15 2022

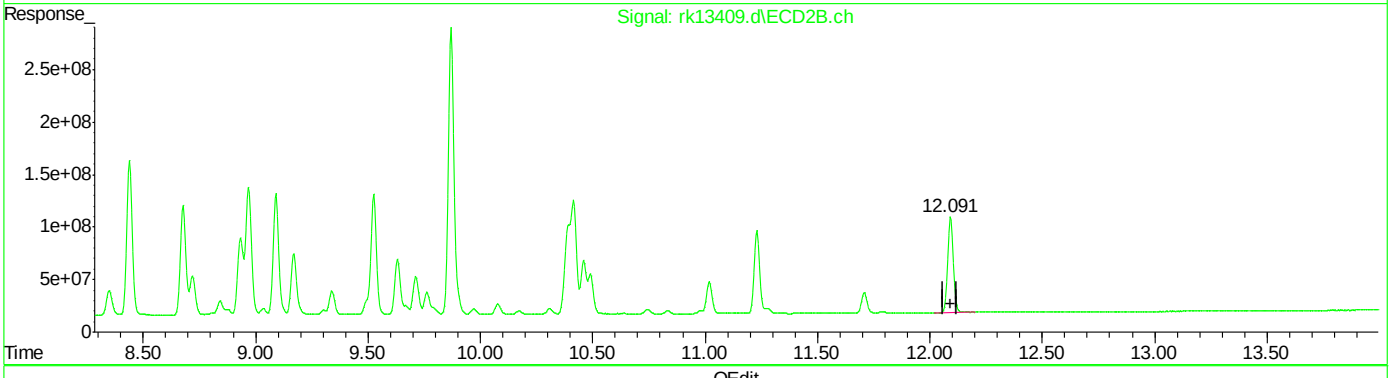
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13409.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:12 pm
Operator : chorngli
Sample : ic339-500
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)
10.336min 22.876 ppb m
response 695683720

(51) Decachlorobiphenyl #2 (S)
12.092min 31.821 ppb
response 1584045805

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:50:20 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:17 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1) S	Tetrachlo...	2.937	3.614	1416.4E6	3810.6E6	44.764	52.280	
	Spiked Amount 40.000			Recovery	=	111.91%	130.70%	
51) S	Decachlor...	10.336	12.092	1358.8E6	3100.0E6	44.683m	62.274	#
	Spiked Amount 40.000			Recovery	=	111.71%	155.69%	
	Target Compounds							
31)	AR1016-A	3.334	4.286	654.2E6	1487.6E6	1232.587	1327.730	
32)	AR1016-B	3.757	4.850	1171.9E6	3372.9E6	1273.319	1376.146m	
33)	AR1016-C	4.331	5.490	2804.9E6	7418.8E6	1339.940	1361.249	
34)	AR1016-D	4.504	5.682	1025.8E6	2814.7E6	1221.842	1398.342	
35)	AR1016-E	5.034	6.349	1035.6E6	2277.1E6	1223.652	1439.665	
36)	AR1260-A	7.068	8.438	2319.5E6	4871.4E6	894.366	1578.287	#
37)	AR1260-B	7.615	9.089	1732.4E6	3858.0E6	916.206	1633.047	#
38)	AR1260-C	7.957	9.526	1549.4E6	4130.3E6	963.059	1627.700	#
39)	AR1260-D	8.393	9.869	4105.1E6	9456.4E6	998.627	1689.191	#
40)	AR1260-E	8.787	10.413	4164.9E6	9265.1E6	1016.498m	1658.642m	#

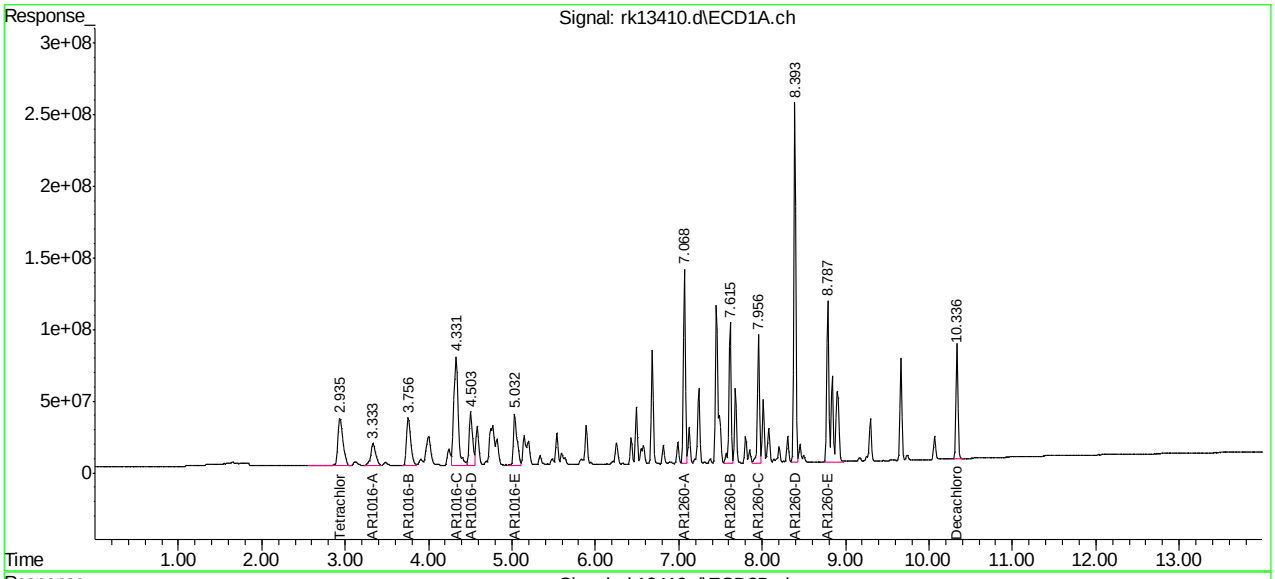
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

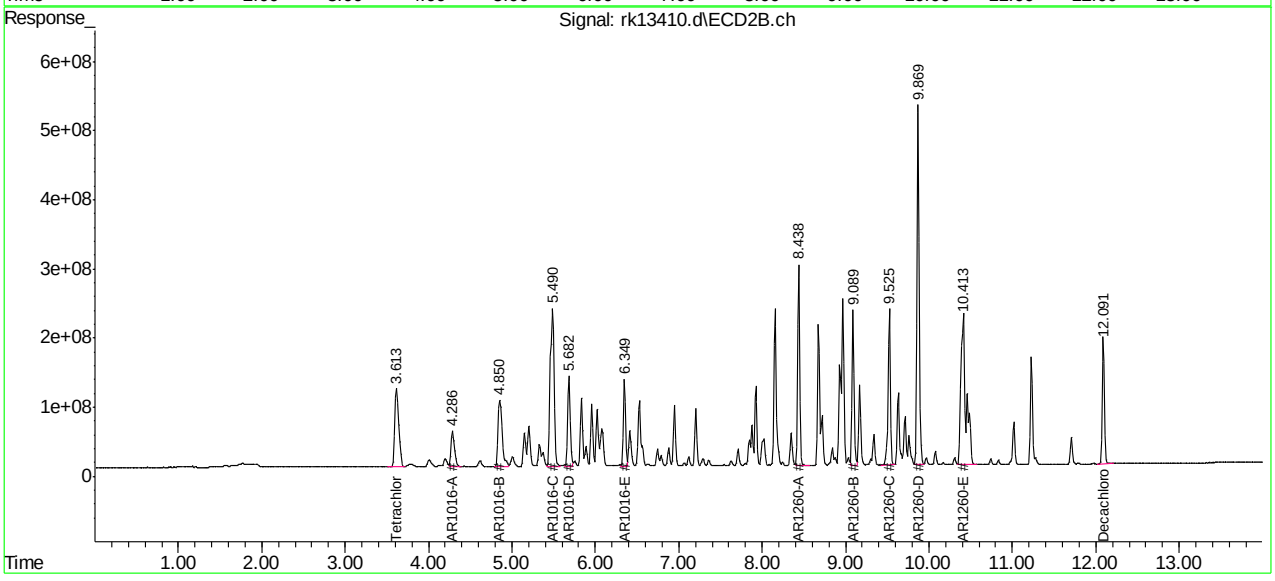
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:49:17 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-ICC339	**Method:**	SW846 8082A
Lab FileID:	RK13410.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 18:29	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

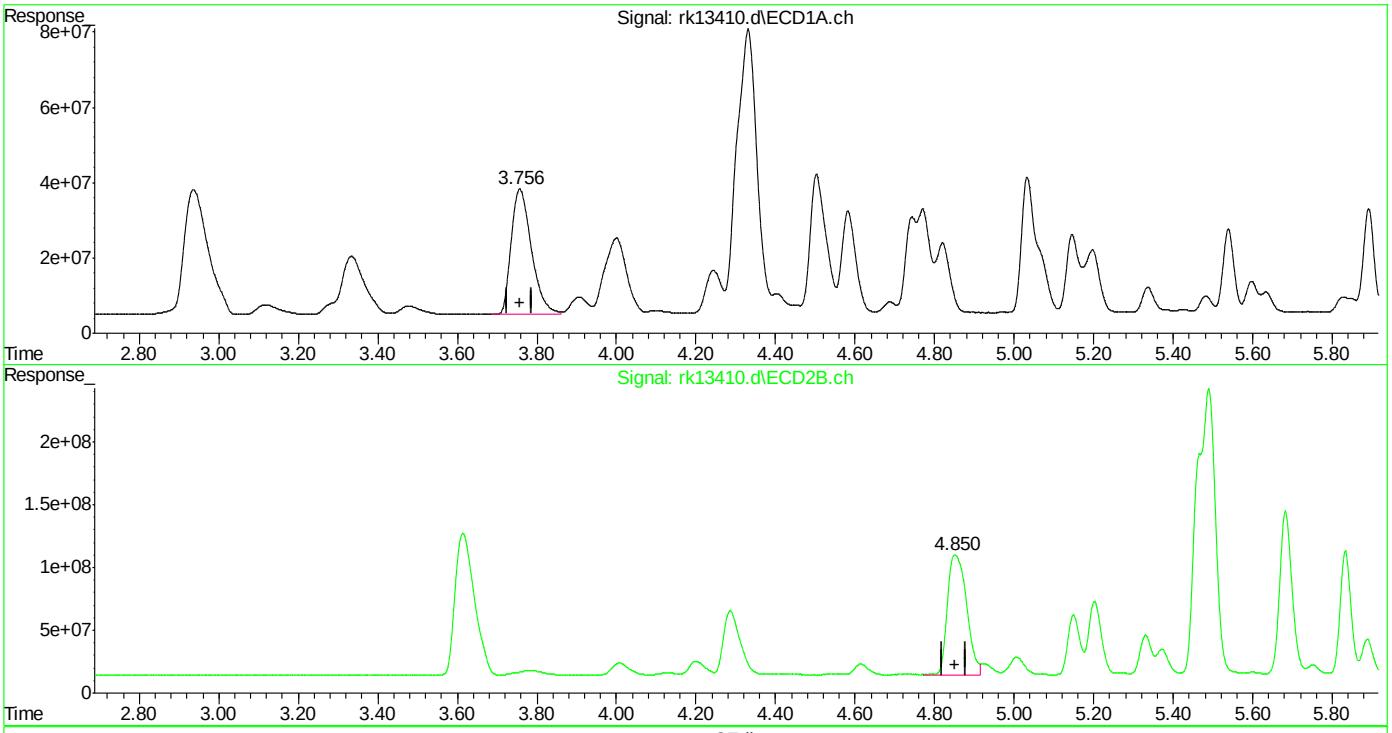
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-B		2	4.85	Split peak
AR1260-E		1	8.79	Split peak
Decachlorobiphenyl	2051-24-3	1	10.34	Poorly defined baseline
AR1260-E		2	10.41	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



QEdit

(32) AR1016-B
3.757min 1273.319 PPB
response 1171941192

(32) AR1016-B #2
4.851min 1306.607 PPB
response 3202429794

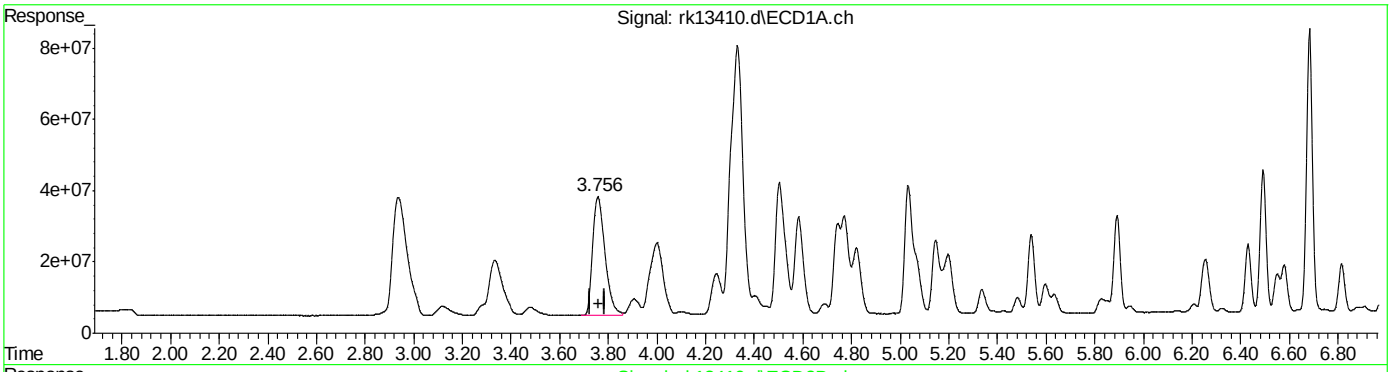
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:48:41 2022

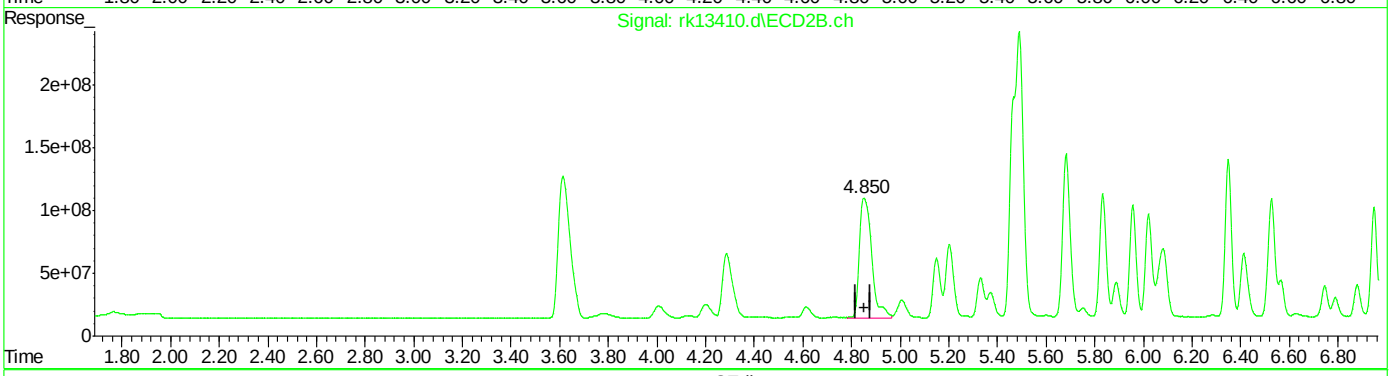
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.757min 1273.319 PPB
response 1171941192

(32) AR1016-B #2
4.850min 1376.146 PPB m
response 3372866084

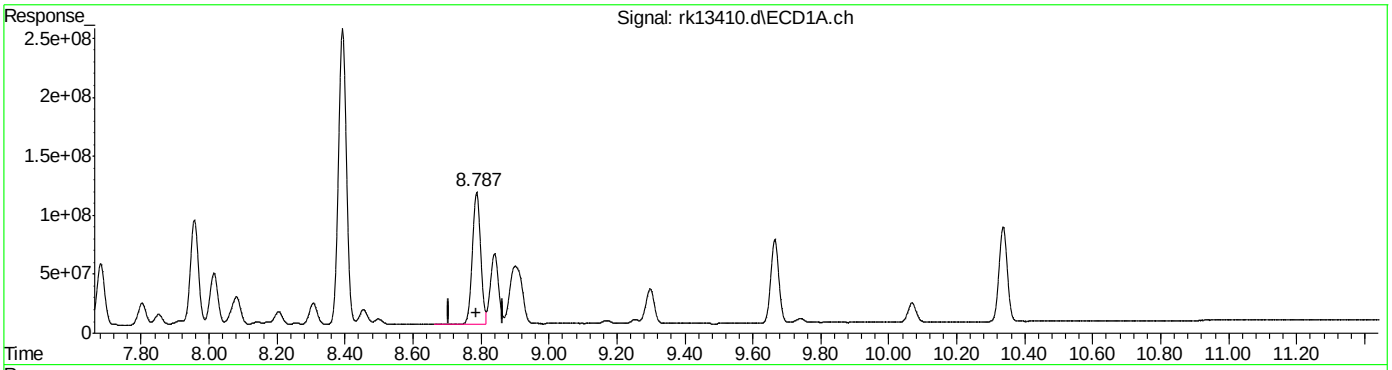
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:48:47 2022

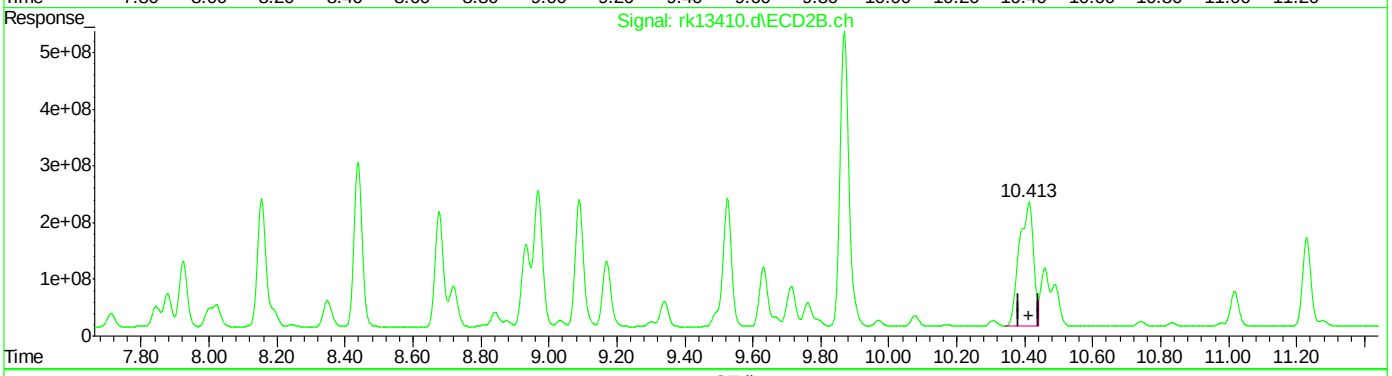
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 468.048 PPB
response 1917727661

(40) AR1260-E #2
10.413min 1139.404 PPB
response 6364651728

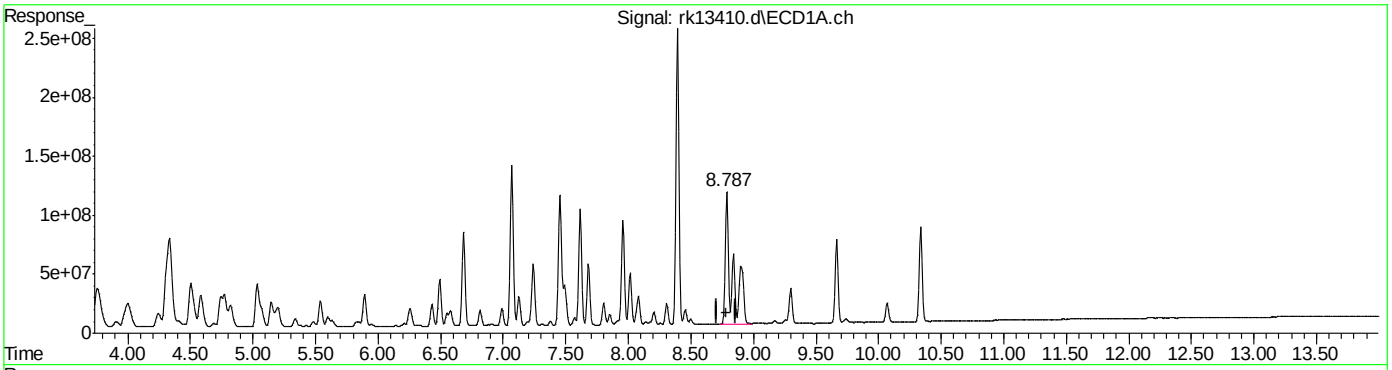
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:48:56 2022

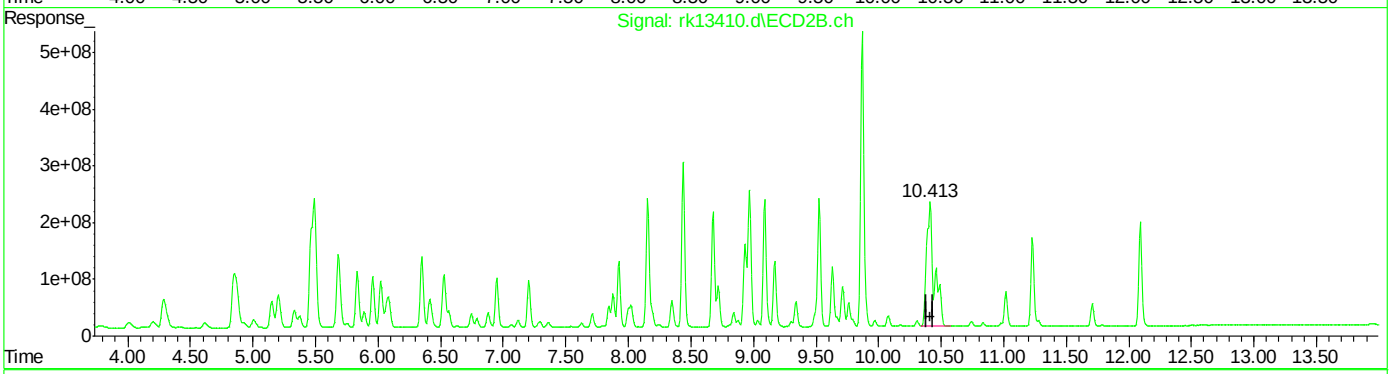
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 1016.498 PPB m
response 4164886998

(40) AR1260-E #2
10.413min 1658.642 PPB m
response 9265089539

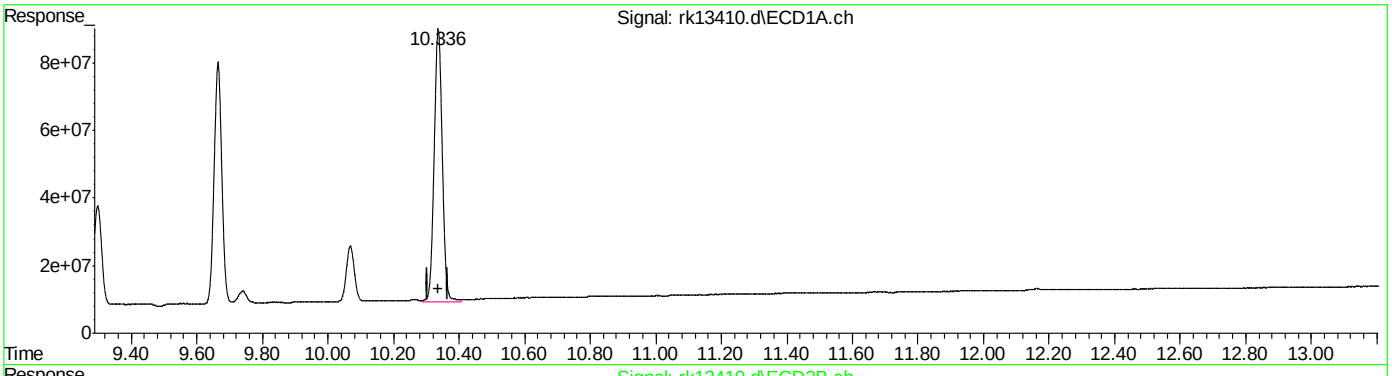
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:49:08 2022

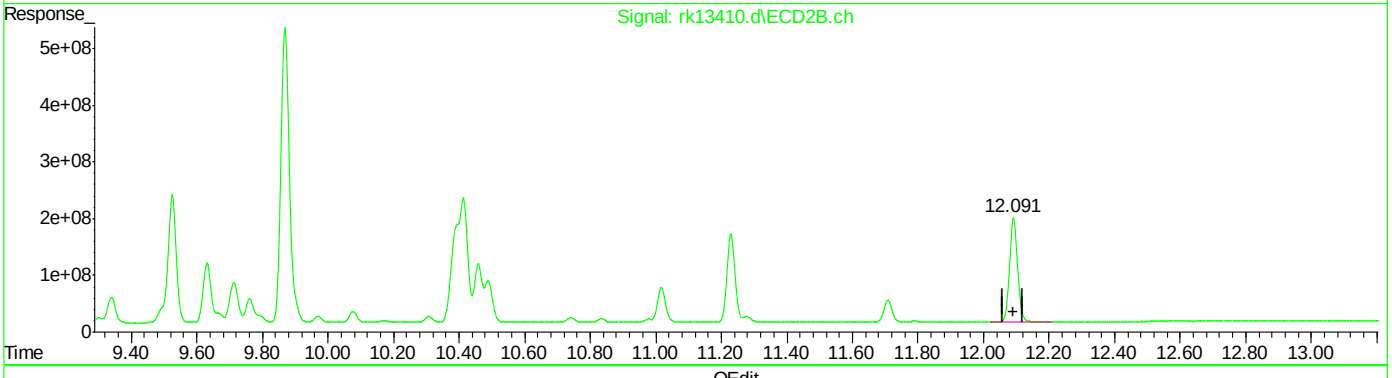
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)
10.337min 45.941 ppb
response 1397077228

(51) Decachlorobiphenyl #2 (S)
12.092min 62.274 ppb
response 3100043038

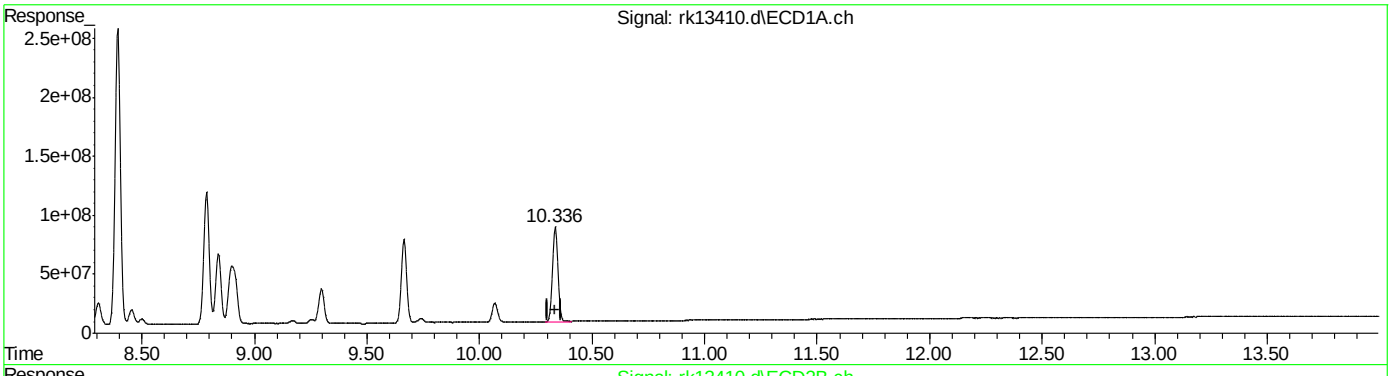
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:49:15 2022

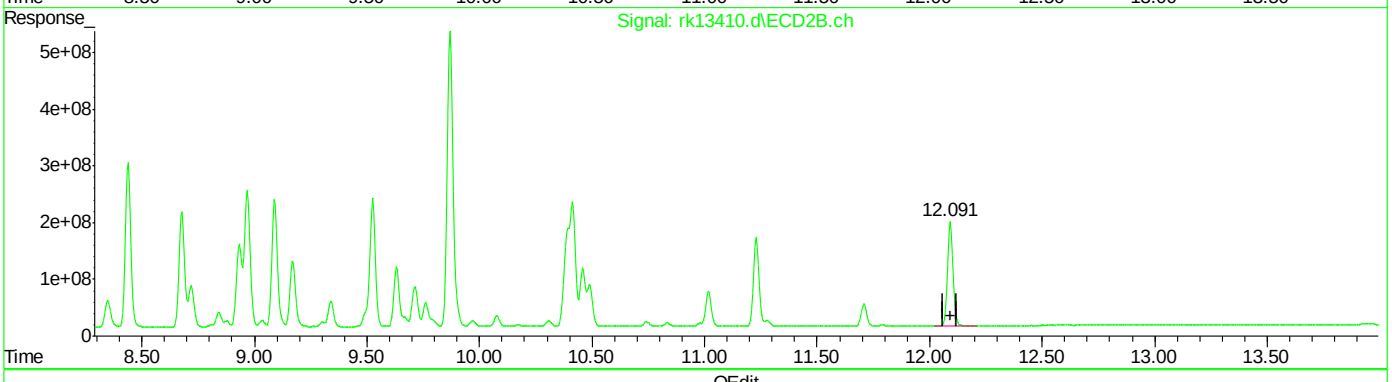
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13410.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:29 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)
10.336min 44.683 ppb m
response 1358835564

(51) Decachlorobiphenyl #2 (S)
12.092min 62.274 ppb
response 3100043038

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	2.938	3.614	2829.7E6	7655.4E6	89.430	105.030	
	Spiked Amount 40.000			Recovery	=	223.58%	262.57%	
51)	S Decachlor...	10.338	12.092	2745.5E6	6110.1E6	90.282	122.742	#
	Spiked Amount 40.000			Recovery	=	225.71%	306.86%	
	Target Compounds							
31)	AR1016-A	3.334	4.287	1259.8E6	2760.2E6	2373.651	2463.515	
32)	AR1016-B	3.757	4.850	2259.5E6	6274.0E6	2454.938	2559.838m	
33)	AR1016-C	4.331	5.490	5510.4E6	14087.0E6	2632.405	2584.787m	
34)	AR1016-D	4.503	5.683	2019.5E6	5353.8E6	2405.349	2659.784	
35)	AR1016-E	5.034	6.349	2050.9E6	4422.9E6	2423.303	2796.328	
36)	AR1260-A	7.068	8.439	4580.7E6	9549.9E6	1766.296	3094.045	#
37)	AR1260-B	7.616	9.089	3455.4E6	7666.2E6	1827.436	3245.012	#
38)	AR1260-C	7.957	9.525	3080.8E6	8234.9E6	1914.991	3245.253	#
39)	AR1260-D	8.394	9.870	8093.5E6	18663.7E6	1968.858	3333.898	#
40)	AR1260-E	8.786	10.415	8326.6E6	18547.8E6	2032.222m	3320.436m	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.34

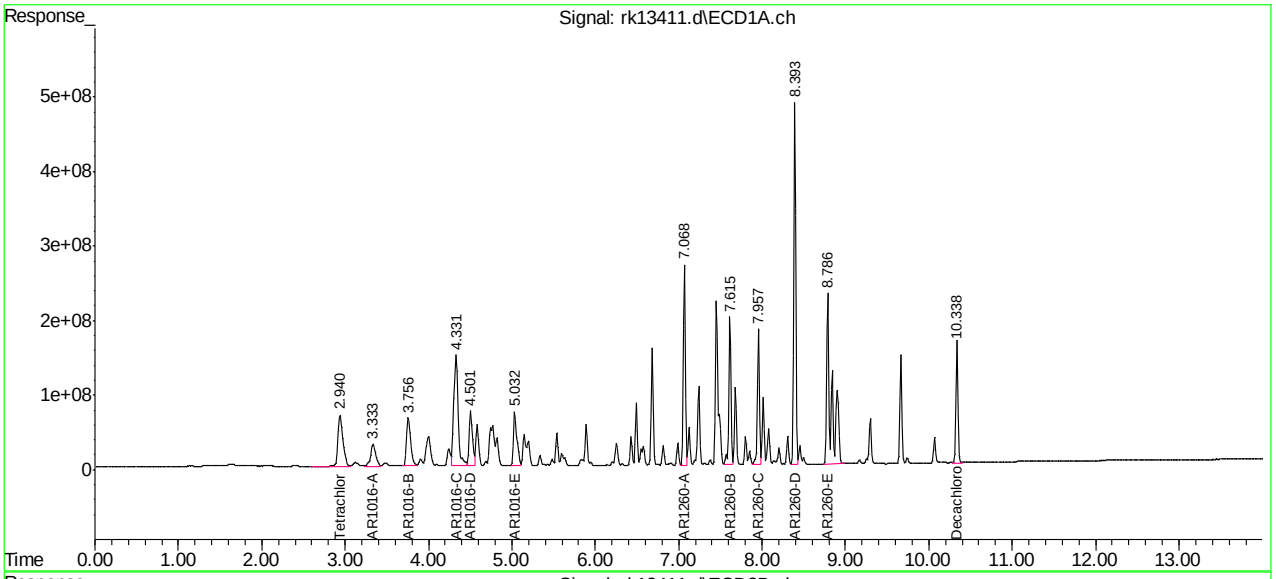
9

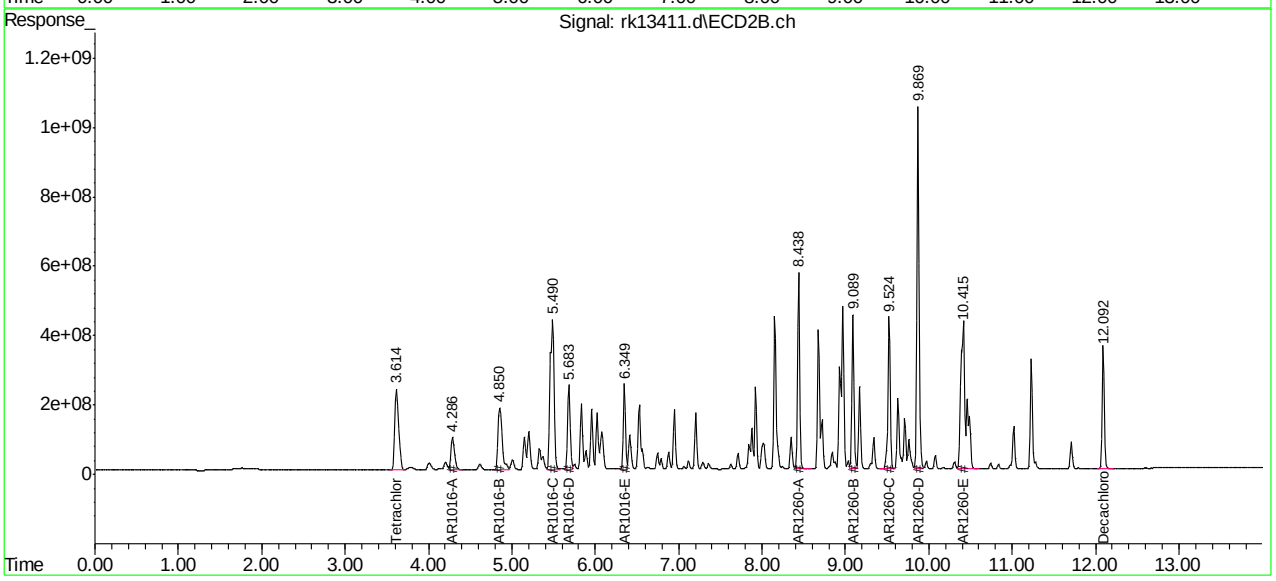
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:48:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13411.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 18:45	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

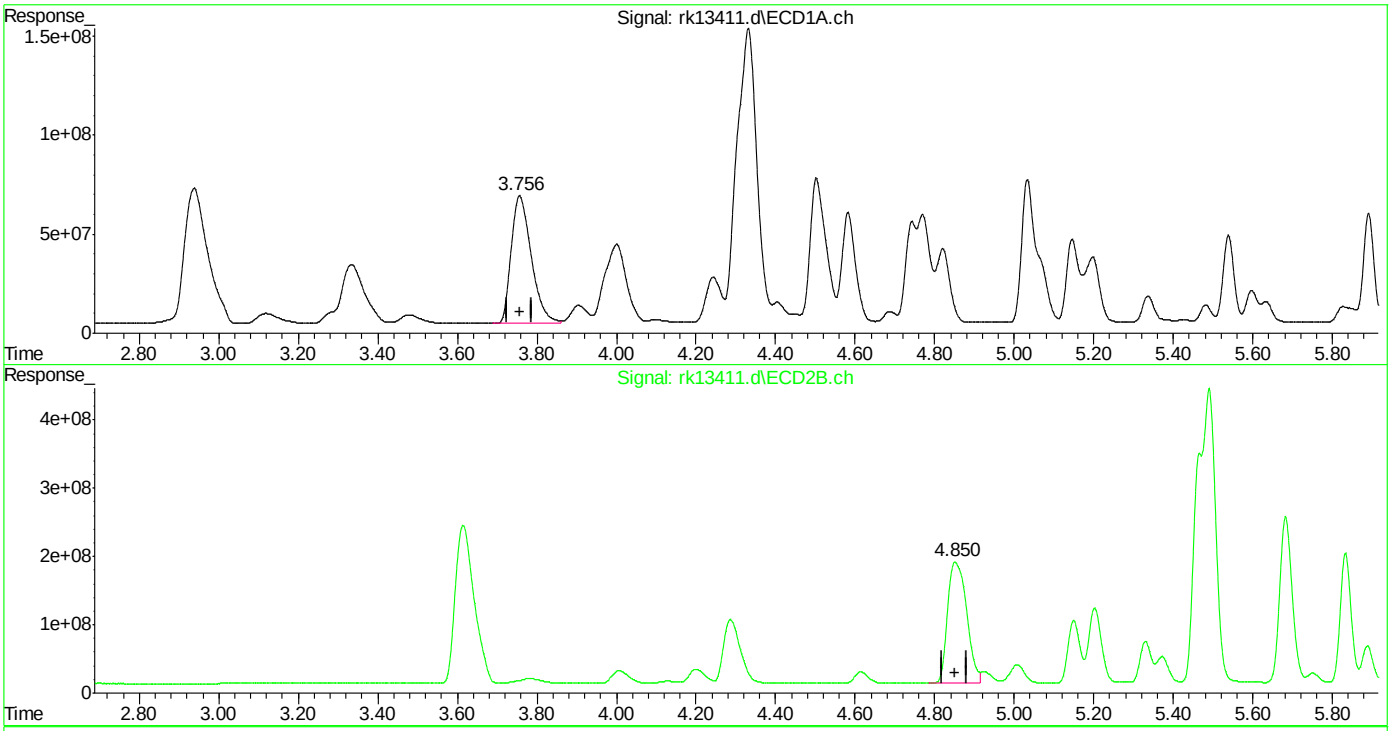
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-B		2	4.85	Split peak
AR1016-C		2	5.49	Split peak
AR1260-E		1	8.79	Split peak
AR1260-E		2	10.42	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



QEdit

(32) AR1016-B
3.757min 2454.938 PPB
response 2259483397

(32) AR1016-B #2
4.851min 2426.552 PPB
response 5947361778

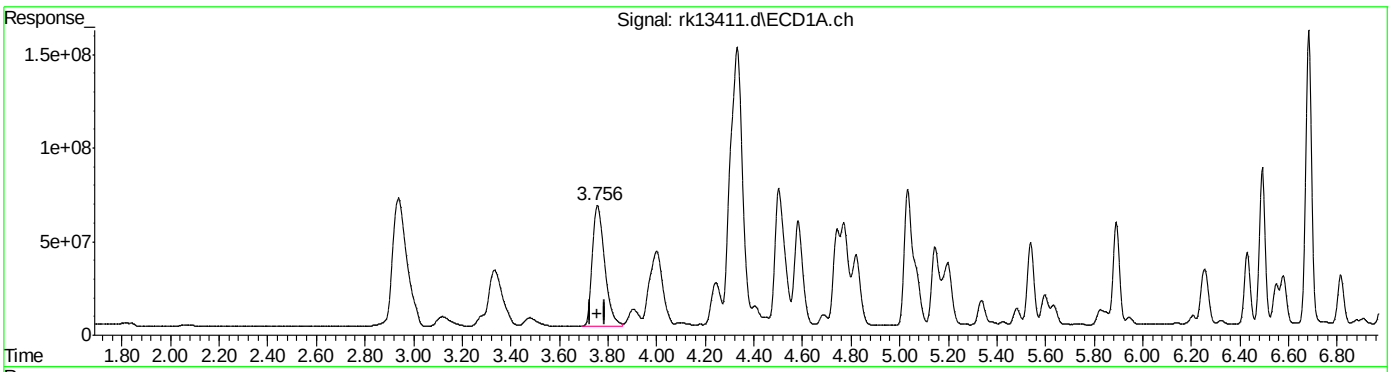
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:47:13 2022

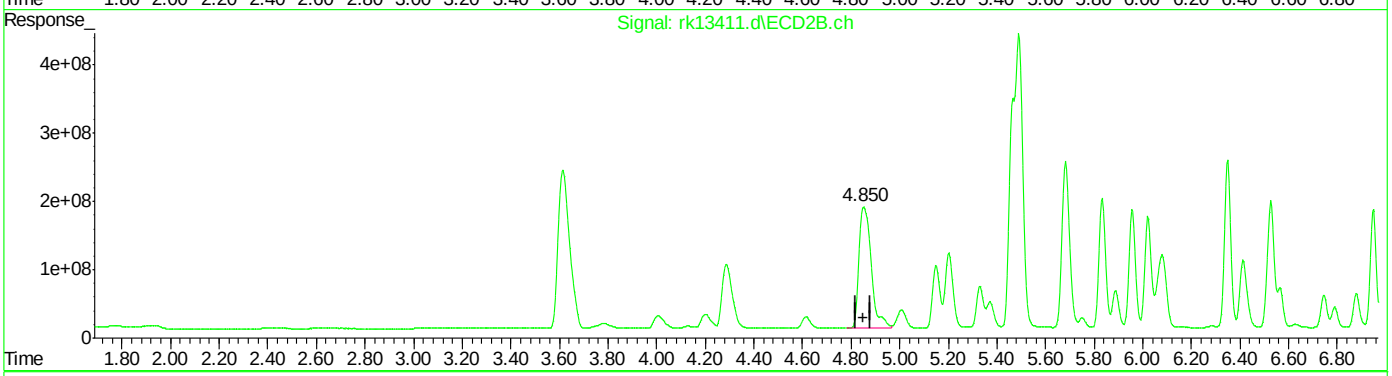
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.757min 2454.938 PPB
response 2259483397

(32) AR1016-B #2
4.850min 2559.838 PPB m
response 6274038426

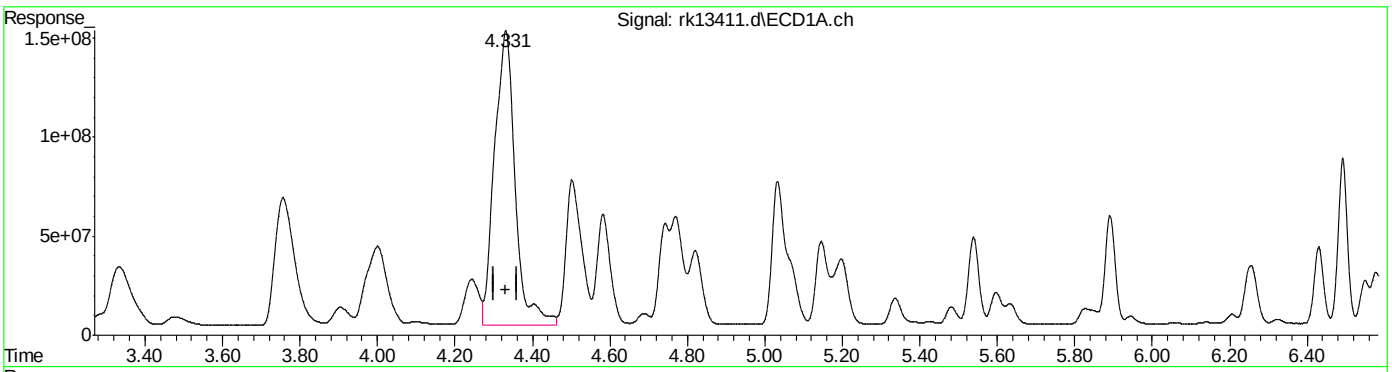
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:47:21 2022

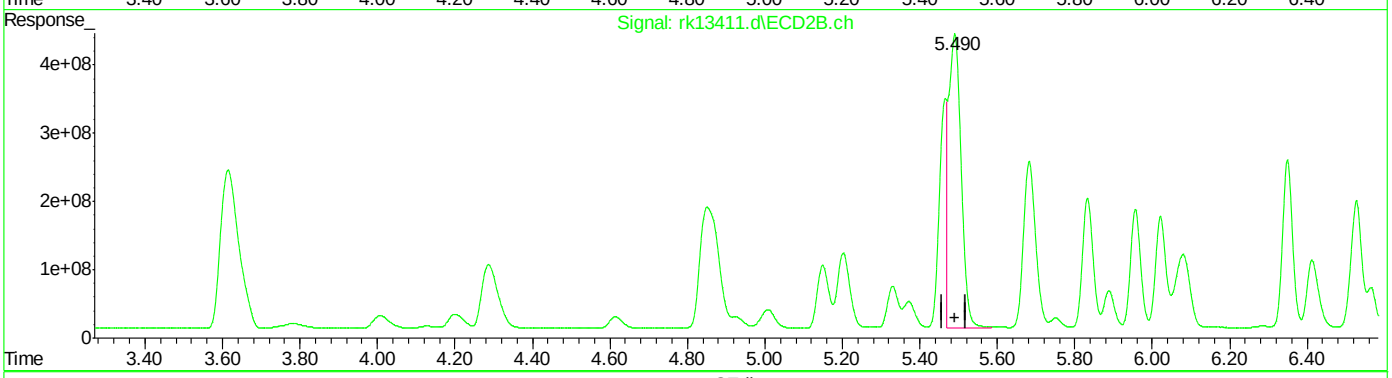
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C
4.331min 2632.405 PPB
response 5510388095

(33) AR1016-C #2
5.490min 1775.174 PPB
response 9674626900

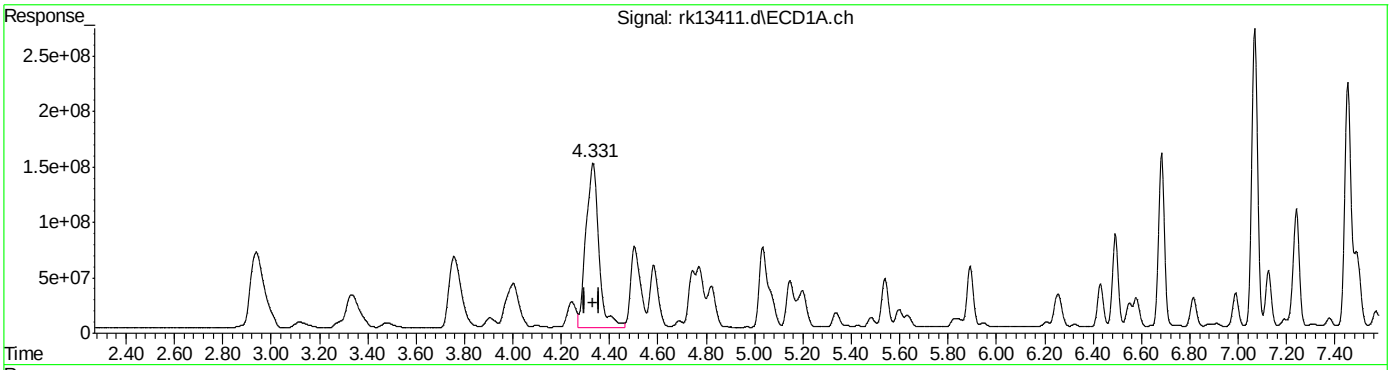
(+) = Expected Retention Time

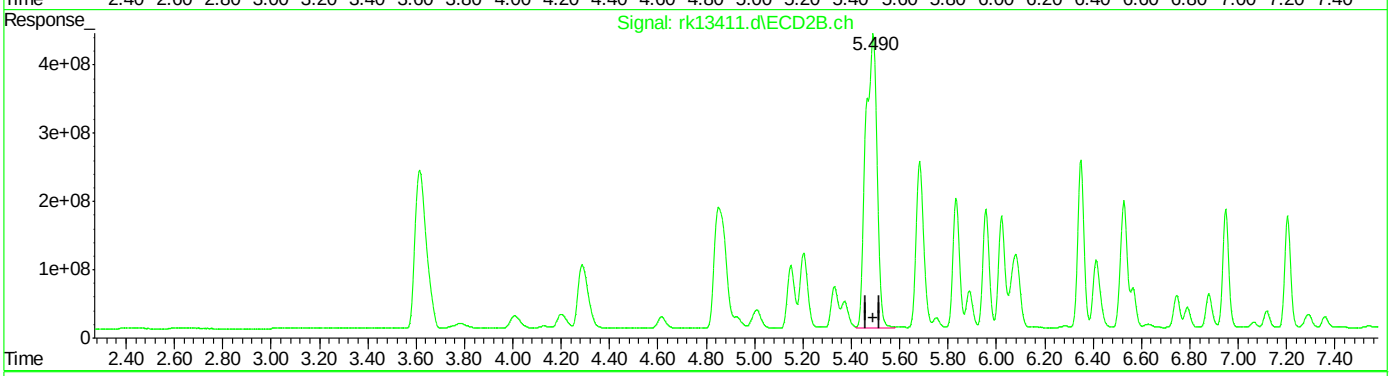
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C
4.331min 2632.405 PPB
response 5510388095

(33) AR1016-C #2
5.490min 2584.787 PPB m
response 14086987355

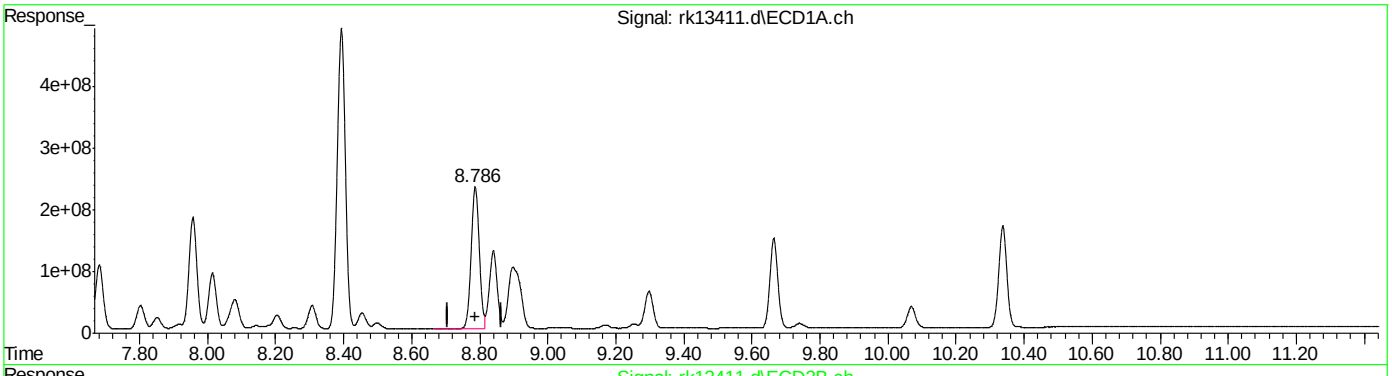
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:47:35 2022

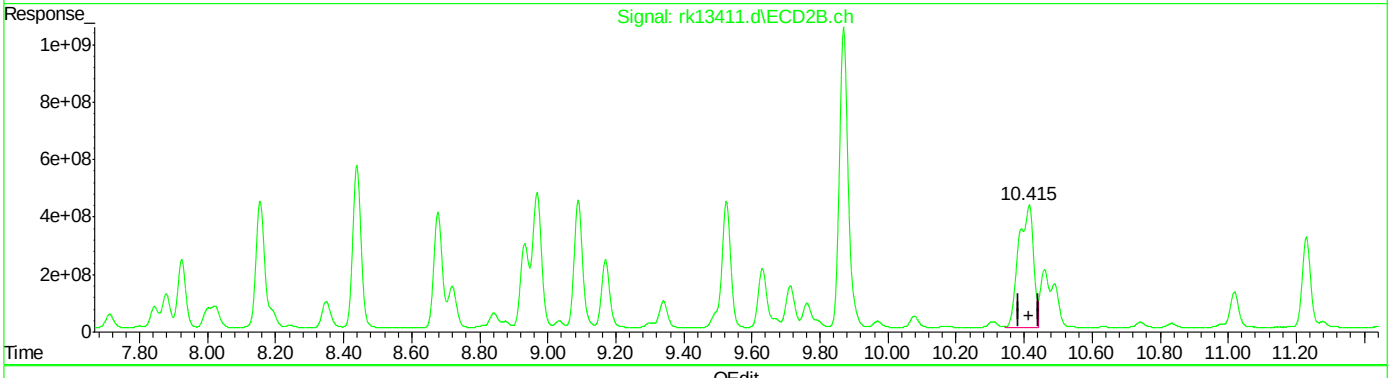
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 935.302 PPB
response 3832205016

(40) AR1260-E #2
10.415min 2284.320 PPB
response 12760090007

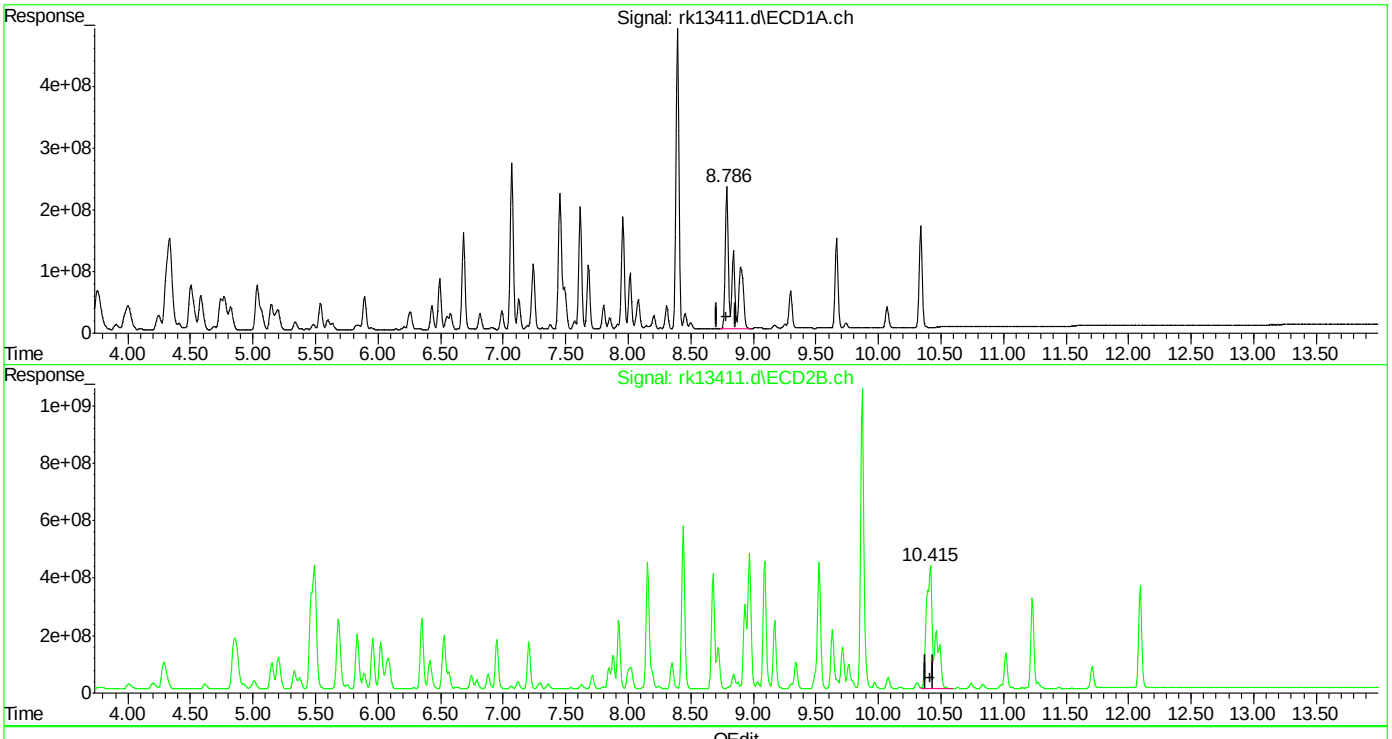
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:47:45 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13411.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 6:45 pm
Operator : chorngli
Sample : icc339-2000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



(40) AR1260-E
8.786min 2032.222 PPB m
response 8326601513

(40) AR1260-E #2
10.415min 3320.436 PPB m
response 18547783269

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:47:57 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13412.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:02 pm
Operator : chorngli
Sample : icc339-3000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:44:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.939	3.614	4102.6E6	11160.1E6	129.657	153.114
Spiked Amount	40.000			Recovery	=	324.14%	382.79%
51) S	Decachlor...	10.337	12.092	4015.9E6	8858.4E6	132.056	177.950 #
Spiked Amount	40.000			Recovery	=	330.14%	444.87%
	Target Compounds						
31)	AR1016-A	3.334	4.286	1786.0E6	3983.4E6	3365.136	3555.198
32)	AR1016-B	3.758	4.851	3218.5E6	8815.0E6	3496.925	3596.582
33)	AR1016-C	4.331	5.491	7916.9E6	19851.1E6	3782.059	3642.431
34)	AR1016-D	4.504	5.682	2908.4E6	7567.7E6	3464.050	3759.637
35)	AR1016-E	5.034	6.349	2985.6E6	6286.8E6	3527.725	3974.808
36)	AR1260-A	7.068	8.439	6633.8E6	13665.2E6	2557.930	4427.354 #
37)	AR1260-B	7.616	9.090	5048.2E6	11123.1E6	2669.797	4708.291 #
38)	AR1260-C	7.958	9.525	4493.8E6	12010.9E6	2793.246	4733.285 #
39)	AR1260-D	8.393	9.869	11642.6E6	26854.8E6	2832.230	4797.078 #
40)	AR1260-E	8.787	10.414	12228.8E6	26968.3E6	2984.599m	4827.881m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.35

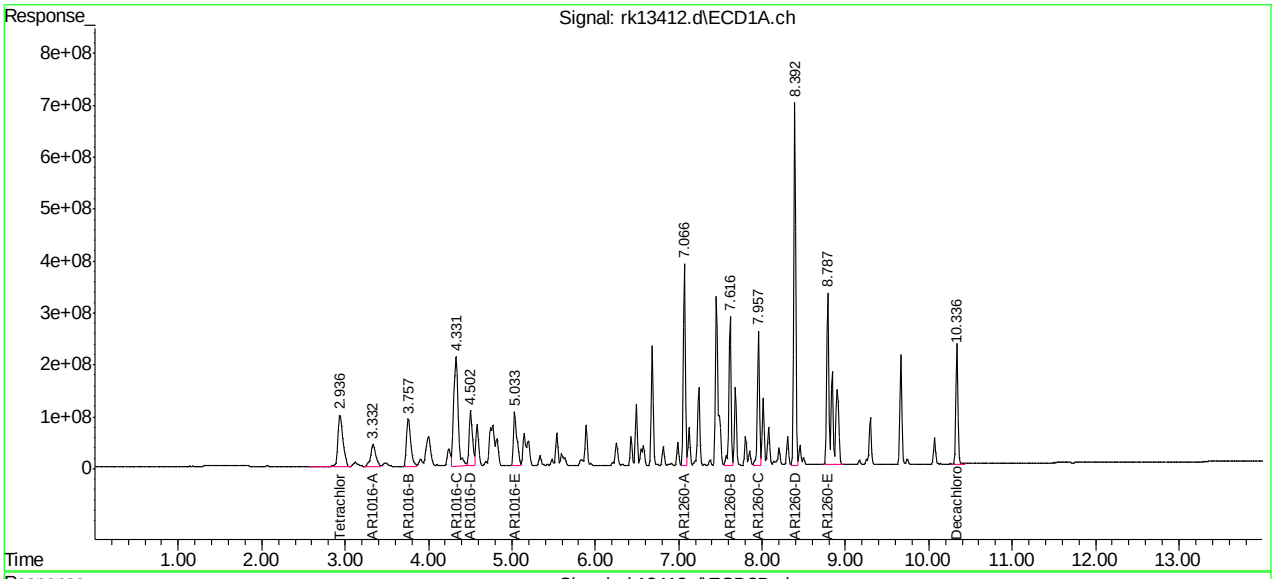
9

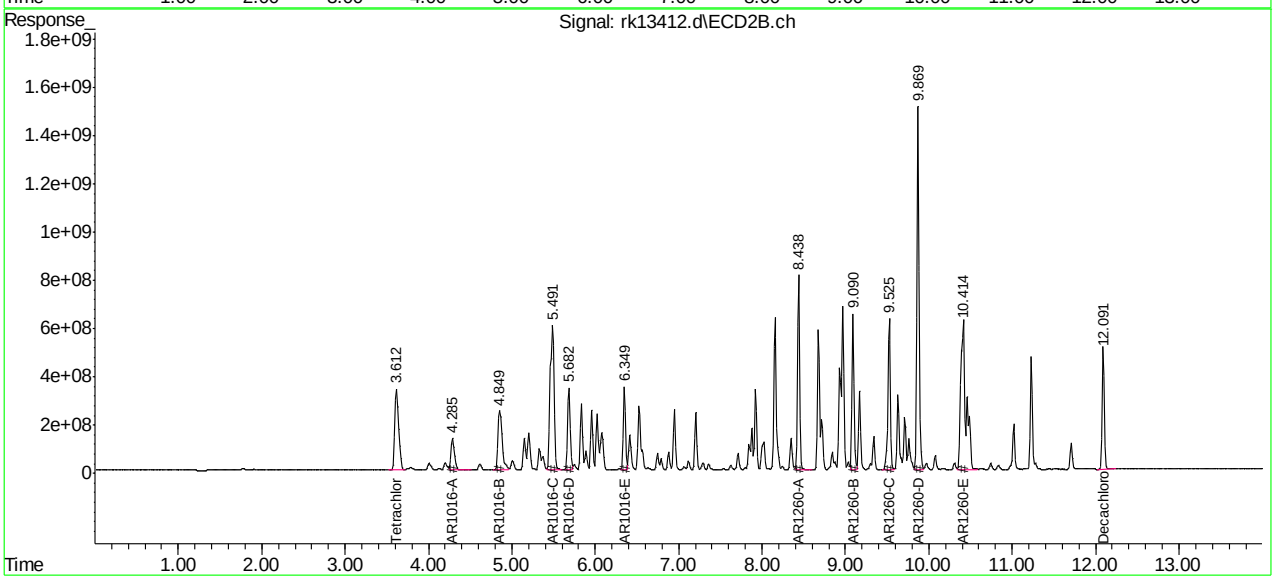
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13412.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:02 pm
Operator : chorngli
Sample : icc339-3000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:44:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13412.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 19:02	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

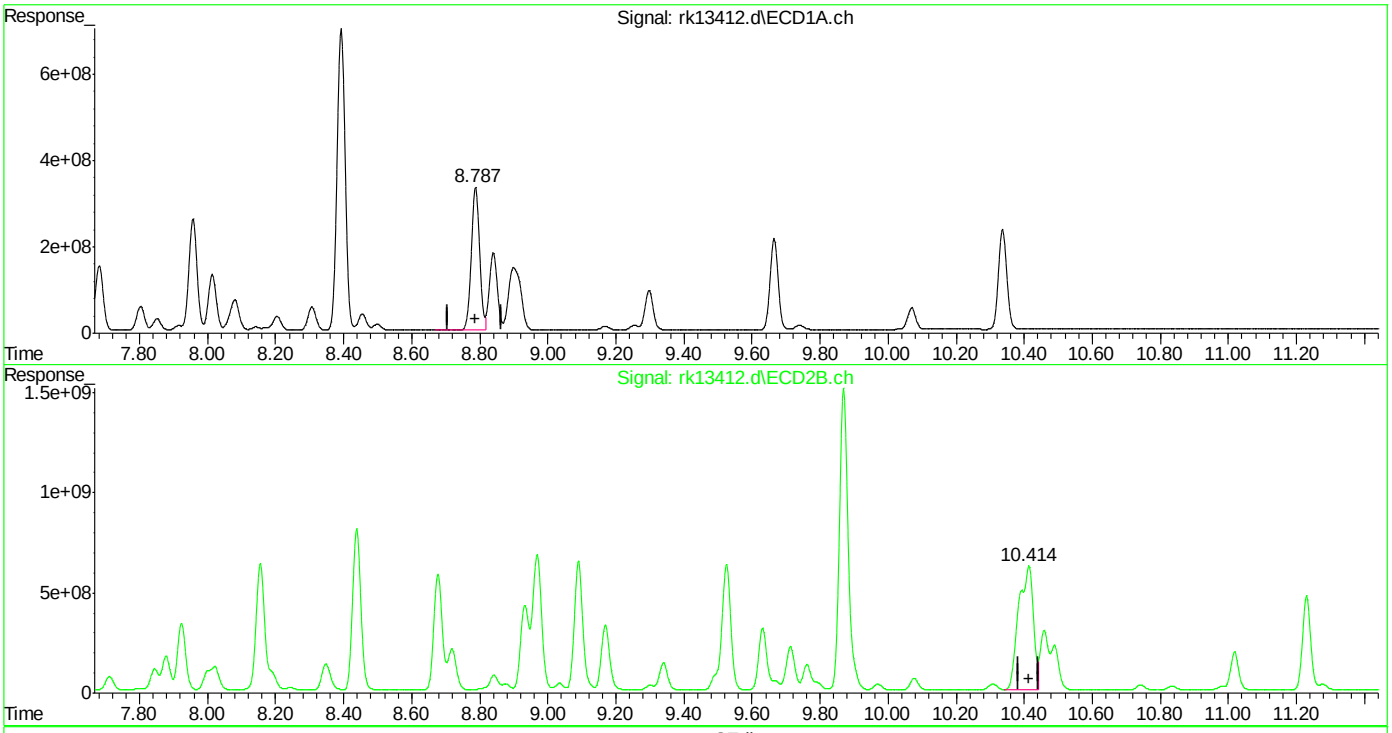
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	8.79	Split peak
AR1260-E		2	10.41	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13412.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:02 pm
Operator : chorngli
Sample : icc339-3000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:44:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



(40) AR1260-E
8.788min 1367.781 PPB
response 5604197239

(40) AR1260-E #2
10.414min 3310.948 PPB
response 18494782461

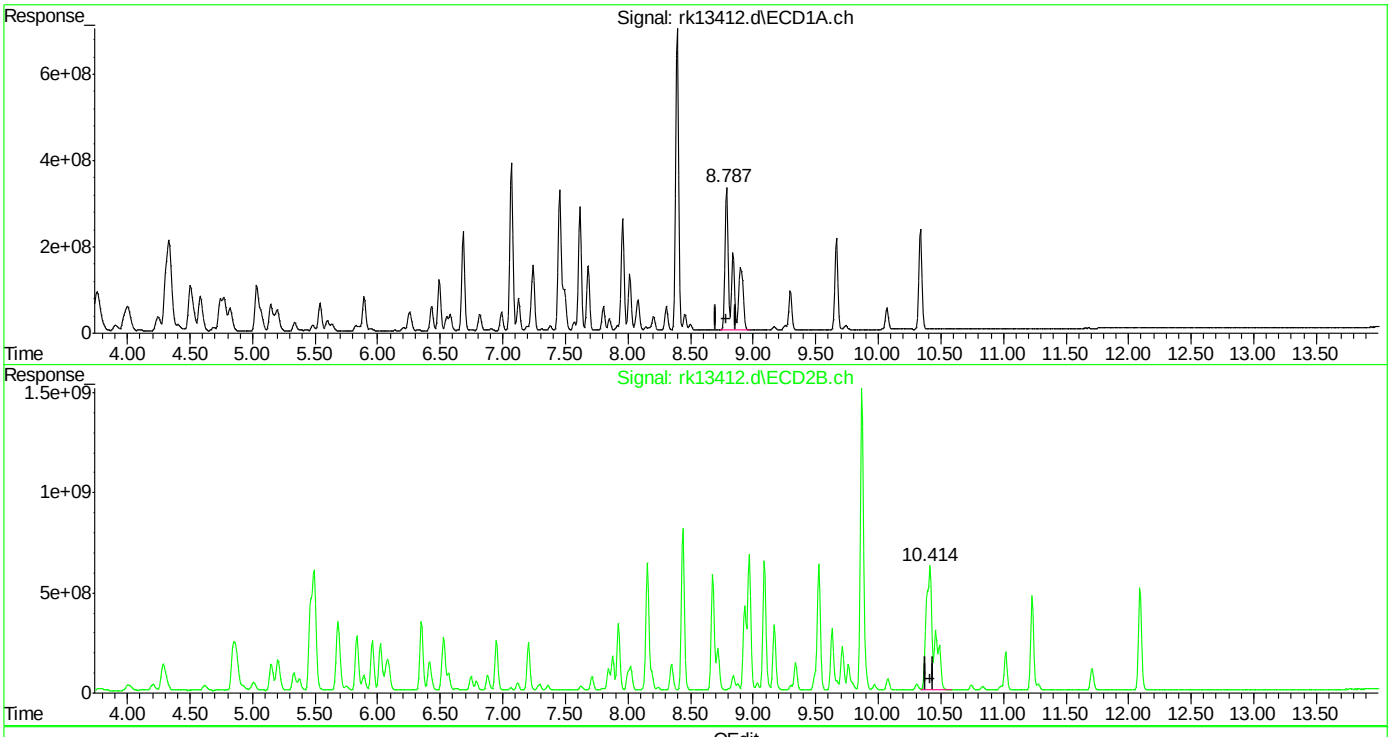
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:44:33 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13412.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:02 pm
Operator : chorngli
Sample : icc339-3000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:44:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



(40) AR1260-E
8.787min 2984.599 PPB m
response 12228766512

(40) AR1260-E #2
10.414min 4827.881 PPB m
response 26968291787

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:44:48 2022

RK13413.D

Manual Integrations APPROVED (compounds with "m" flag)

Gwendolyn Burns 07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13413.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:18 pm
Operator : chorngli
Sample : icc339-5000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:45:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	2.940	3.616	6666.1E6	17993.0E6	210.675	246.859	
	Spiked Amount 40.000			Recovery	=	526.69%	617.15%	
51)	S Decachlor...	10.337	12.092	6421.1E6	14723.4E6	211.149	295.766	#
	Spiked Amount 40.000			Recovery	=	527.87%	739.42%	
	Target Compounds							
31)	AR1016-A	3.335	4.287	2802.0E6	5741.2E6	5279.385	5124.081	
32)	AR1016-B	3.758	4.851	5009.5E6	12470.8E6	5442.843	5088.159	
33)	AR1016-C	4.332	5.491	12433.9E6	29851.4E6	5939.879	5477.363	
34)	AR1016-D	4.504	5.683	4584.6E6	11493.2E6	5460.491	5709.853	
35)	AR1016-E	5.034	6.349	4764.2E6	9773.7E6	5629.209	6179.367	
36)	AR1260-A	7.069	8.439	10428.2E6	21371.3E6	4021.030	6924.049	#
37)	AR1260-B	7.616	9.090	8036.0E6	17645.6E6	4249.910	7469.219	#
38)	AR1260-C	7.958	9.526	7161.7E6	19074.2E6	4451.560	7516.837	#
39)	AR1260-D	8.393	9.870	18184.0E6	41575.1E6	4423.508	7426.564	#
40)	AR1260-E	8.787	10.415	19671.7E6	43844.9E6	4801.157m	7849.138m	#

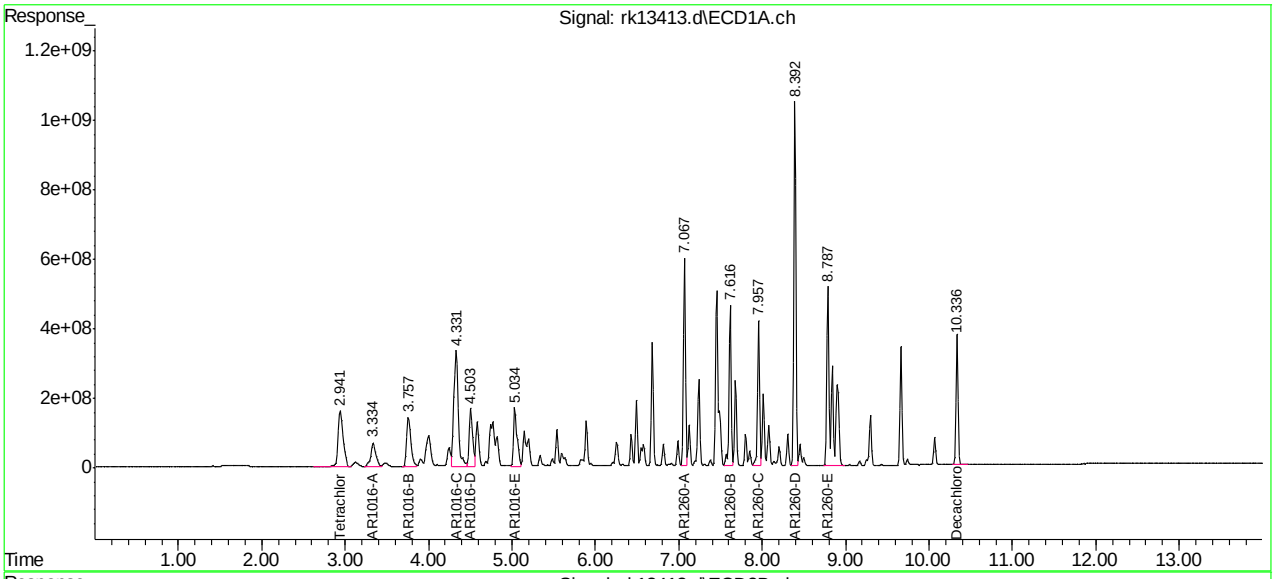
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

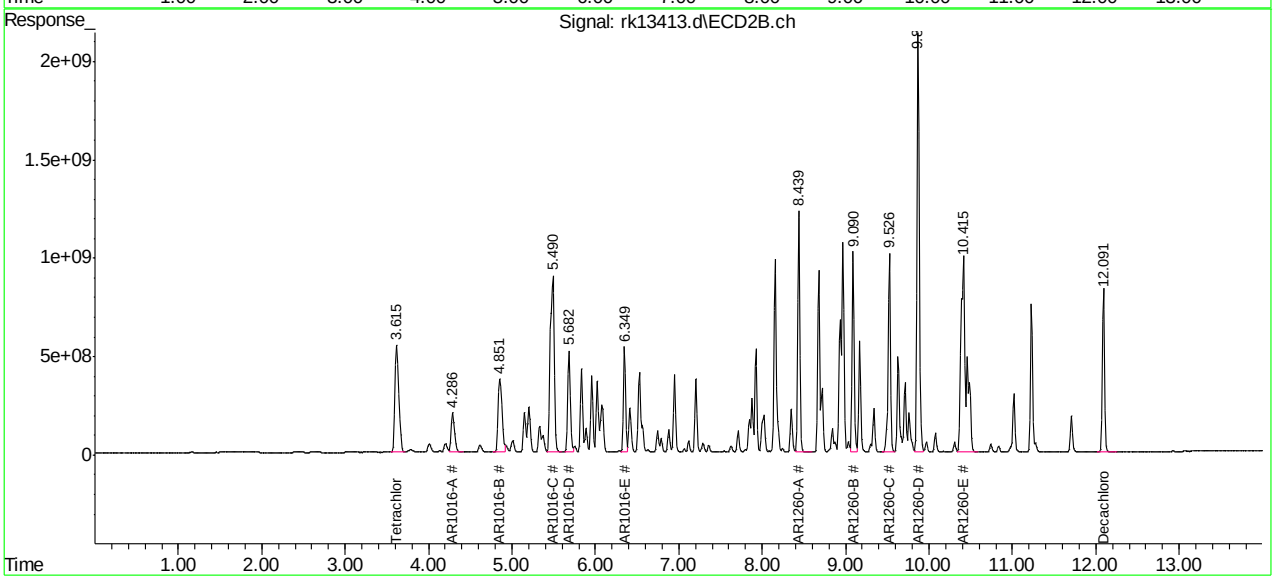
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13413.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:18 pm
Operator : chorngli
Sample : icc339-5000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:45:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13413.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 19:18	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

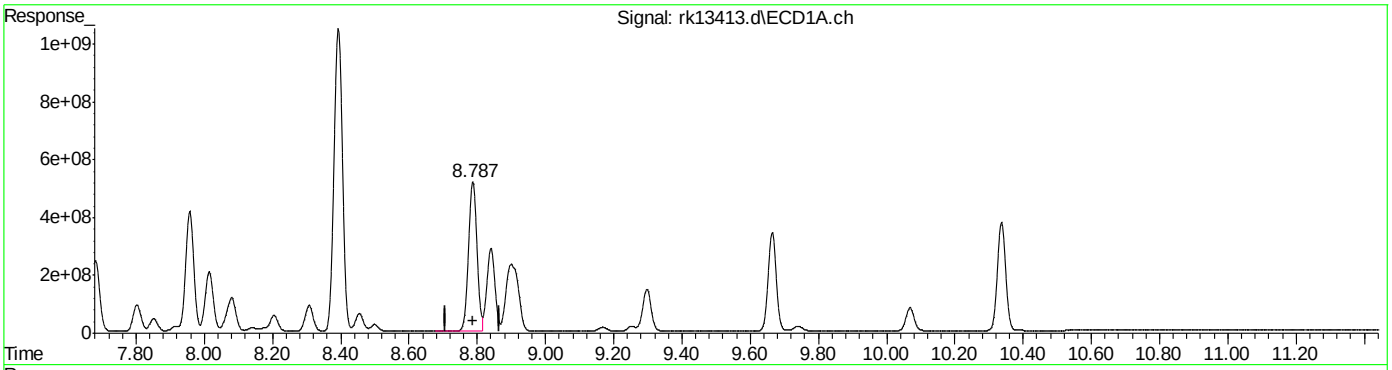
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	8.79	Split peak
AR1260-E		2	10.42	Split peak

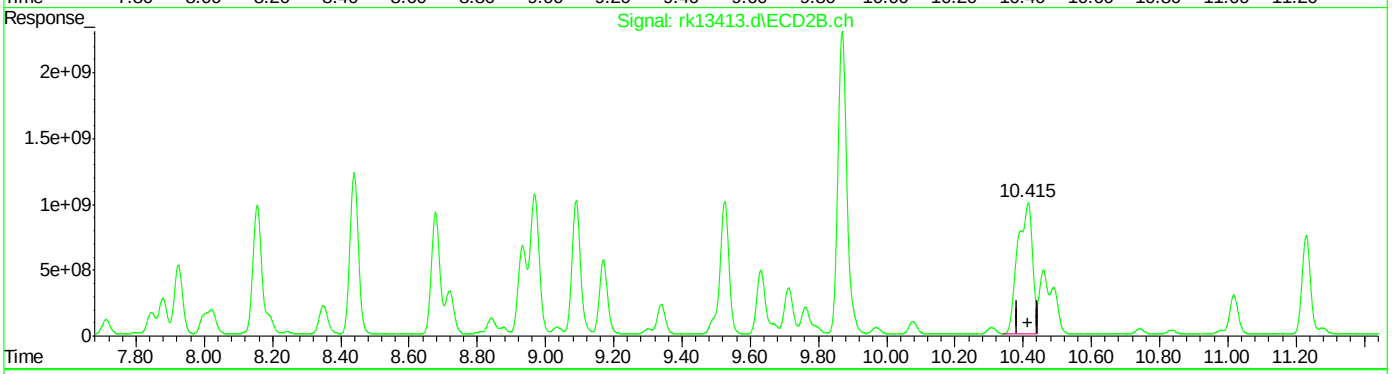
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13413.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:18 pm
Operator : chorngli
Sample : icc339-5000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:45:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 2181.389 PPB
response 8937785375

(40) AR1260-E #2
10.415min 5367.972 PPB
response 29985211268

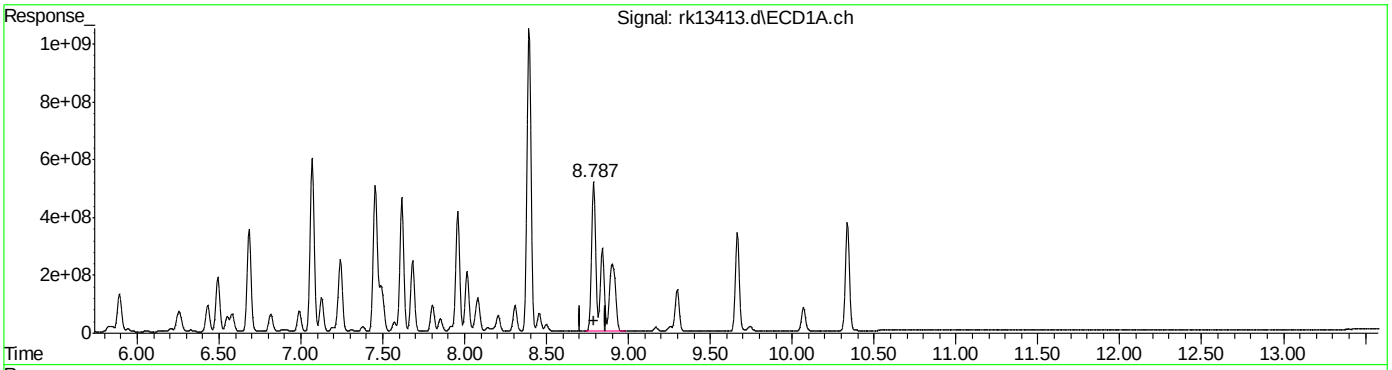
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:45:28 2022

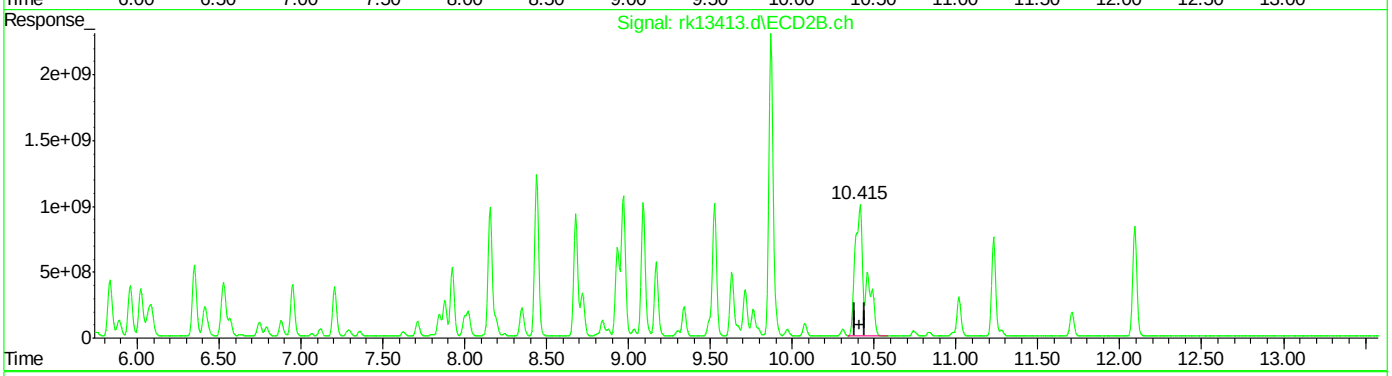
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13413.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:18 pm
Operator : chorngli
Sample : icc339-5000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:45:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 4801.157 PPB m
response 19671732322

(40) AR1260-E #2
10.415min 7849.138 PPB m
response 43844876704

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13414.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:35 pm
Operator : chorngli
Sample : icc339-10000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1) S	Tetrachlo...	2.940	3.615	12525.5E6	33903.8E6	395.855	465.150	
Spiked Amount	40.000			Recovery	=	989.64%	1162.88%	
51) S	Decachlor...	10.338	12.092	12037.1E6	27880.8E6	395.821	560.076	#
Spiked Amount	40.000			Recovery	=	989.55%	1400.19%	
	Target Compounds							
31)	AR1016-A	3.335	4.287	5132.4E6	10270.9E6	9670.004	9166.926	
32)	AR1016-B	3.758	4.851	9076.1E6	22810.6E6	9861.198	9306.838	
33)	AR1016-C	4.332	5.491	22505.6E6	51303.2E6	10751.293	9413.494	
34)	AR1016-D	4.504	5.682	8366.9E6	20074.9E6	9965.420	9973.275	
35)	AR1016-E	5.034	6.350	8842.8E6	17427.1E6	10448.434	11018.200	
36)	AR1260-A	7.069	8.439	18742.4E6	37766.9E6	7226.908	12235.991	#
37)	AR1260-B	7.616	9.090	14875.9E6	32146.0E6	7867.218	13607.095	#
38)	AR1260-C	7.958	9.526	13250.6E6	34801.6E6	8236.292	13714.766	#
39)	AR1260-D	8.393	9.876	32338.8E6	56852.7E6	7866.868	10155.588	#
40)	AR1260-E	8.788	10.415	36865.9E6	82659.0E6	8997.620m	14797.664m	#

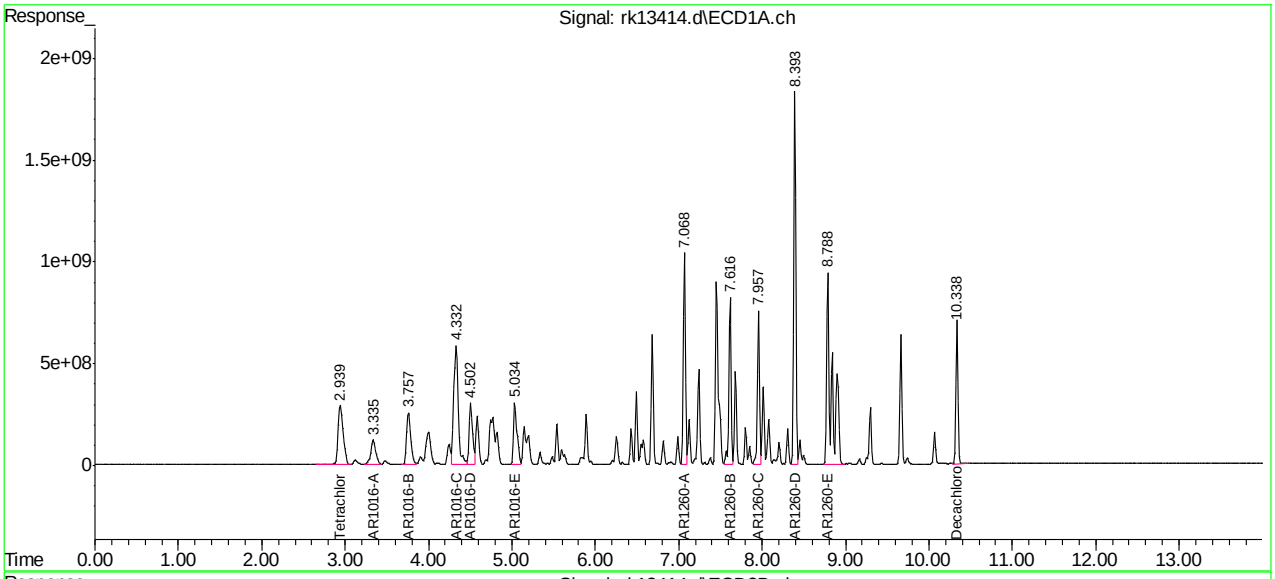
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

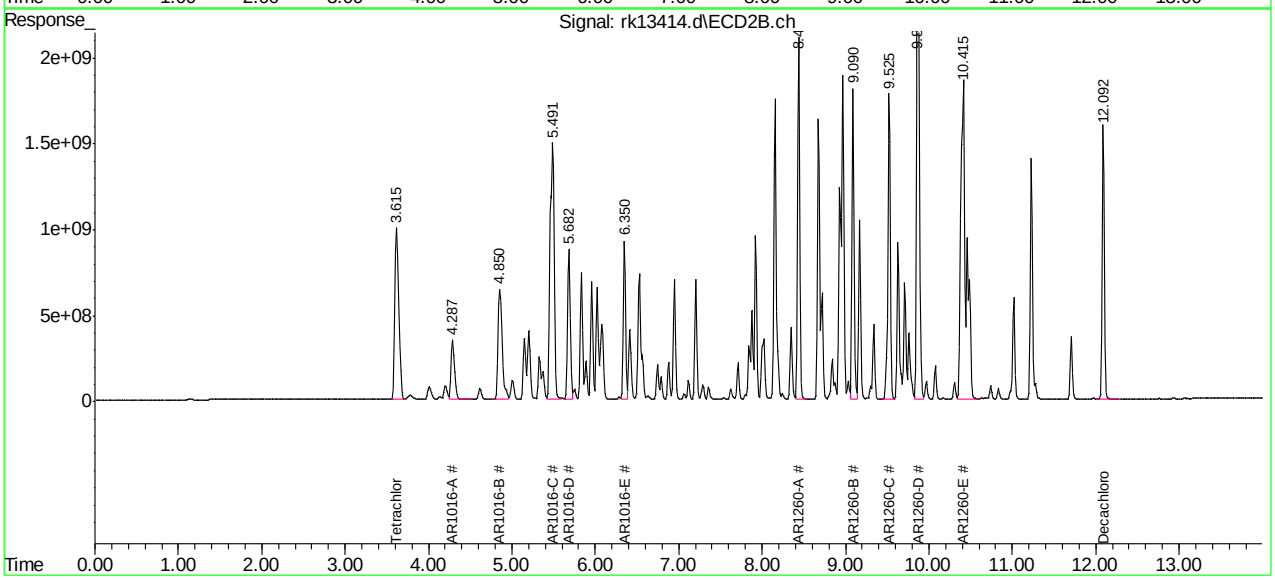
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13414.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:35 pm
Operator : chorngli
Sample : icc339-10000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:46:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13414.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 19:35	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

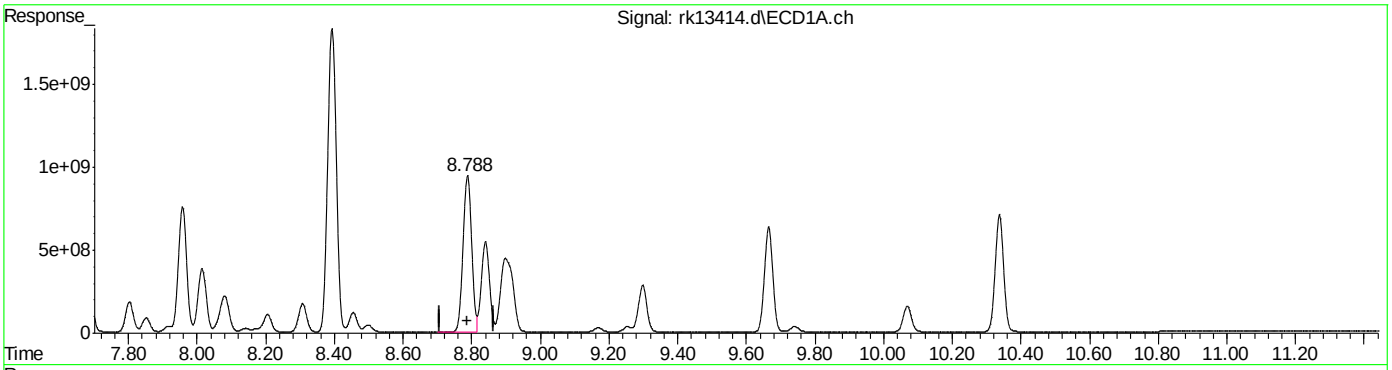
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	8.79	Split peak
AR1260-E		2	10.42	Split peak

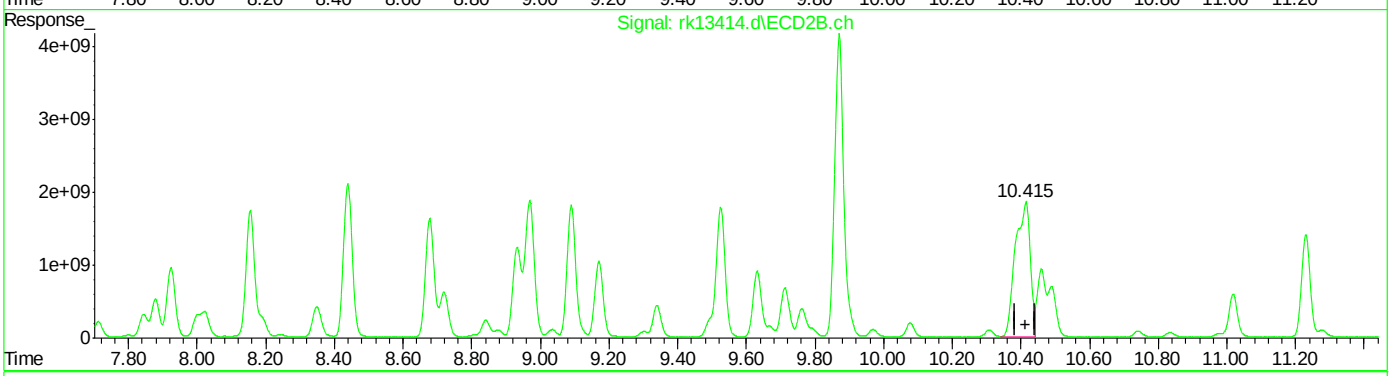
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13414.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:35 pm
Operator : chorngli
Sample : icc339-10000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:45:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.788min 4033.719 PPB
response 16527317248

(40) AR1260-E #2
10.415min 10006.521 PPB
response 55895903755

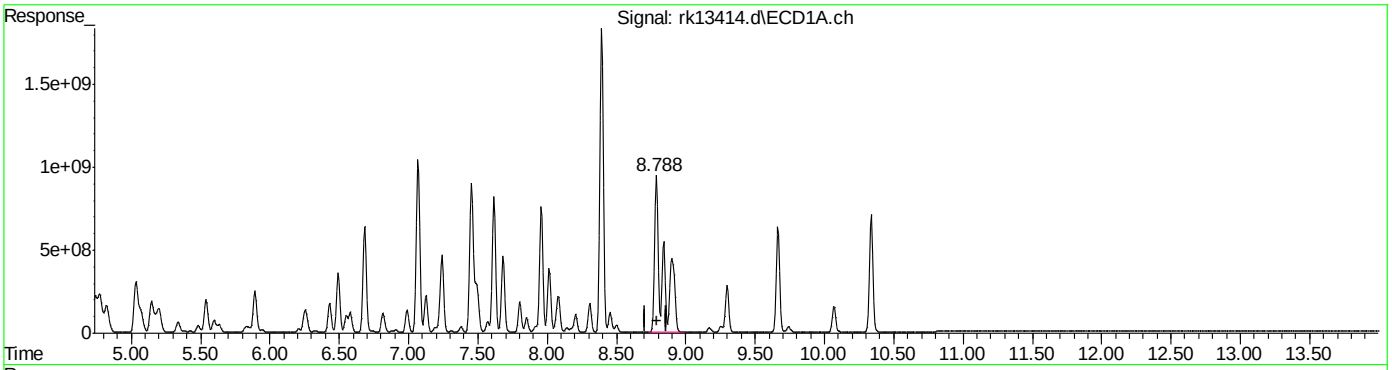
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:46:13 2022

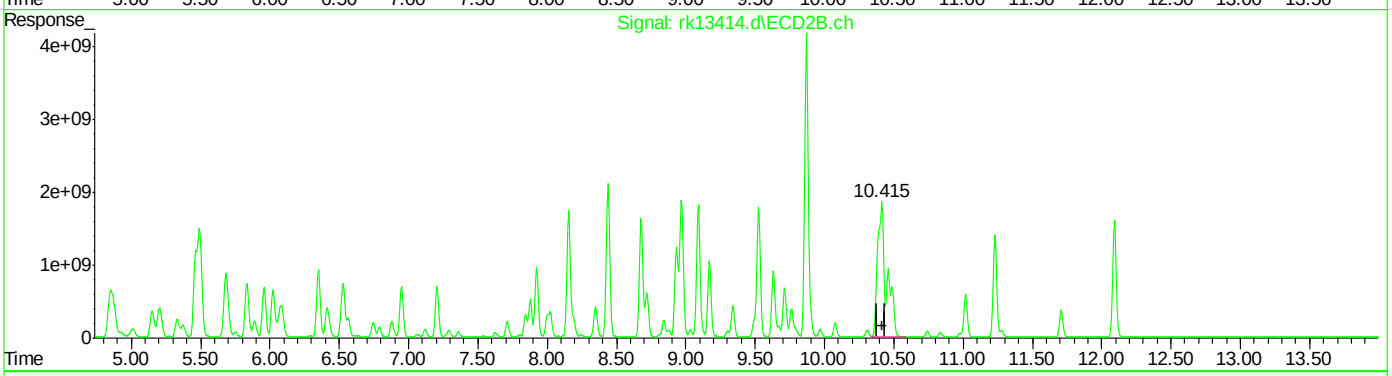
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13414.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:35 pm
Operator : chorngli
Sample : icc339-10000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:45:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:44:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.788min 8997.620 PPB m
response 36865861613

(40) AR1260-E #2
10.415min 14797.664 PPB m
response 82658976822

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:46:28 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13415.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:51 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:06:23 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:55:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1) S	Tetrachlo...	2.940	3.617	1354.8E6	3562.4E6	42.818	48.875	
Spiked Amount	40.000			Recovery	=	107.04%	122.19%	
51) S	Decachlor...	10.337	12.092	1254.7E6	2959.3E6	41.259	59.447	#
Spiked Amount	40.000			Recovery	=	103.15%	148.62%	
	Target Compounds							
2)	AR1221-A	2.401	3.038	198.0E6	410.1E6	969.472	954.791	
3)	AR1221-B	3.121	4.007	348.5E6	972.4E6	1135.282	1204.537	
4)	AR1221-C	3.335	4.288	1006.8E6	2166.1E6	1176.820	1185.236	
5)	AR1221-D	3.758	4.845	186.2E6	507.7E6	1287.642m	1186.401m	
6)	AR1221-E	4.332	5.491	232.2E6	691.8E6	1257.592	1264.269	
24)	AR1254-A	5.539	6.949	997.4E6	3442.5E6	1109.509	1391.465	#
25)	AR1254-B	5.892	7.205	2063.3E6	3781.2E6	1061.751	1404.319	#
26)	AR1254-C	6.265	7.712	1085.1E6	3117.4E6	1071.062	1474.525	#
27)	AR1254-D	6.431	7.879	1933.1E6	5980.4E6	1056.695	1460.113	#
28)	AR1254-E	6.814	8.191	1601.0E6	4407.9E6	896.693	1495.876	#
29)	AR1254-F	7.069	8.706	1418.0E6	4851.4E6	908.976	1552.721m	#
30)	AR1254-G	7.455	8.969	2094.0E6	4650.1E6	947.300	1566.945	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.38

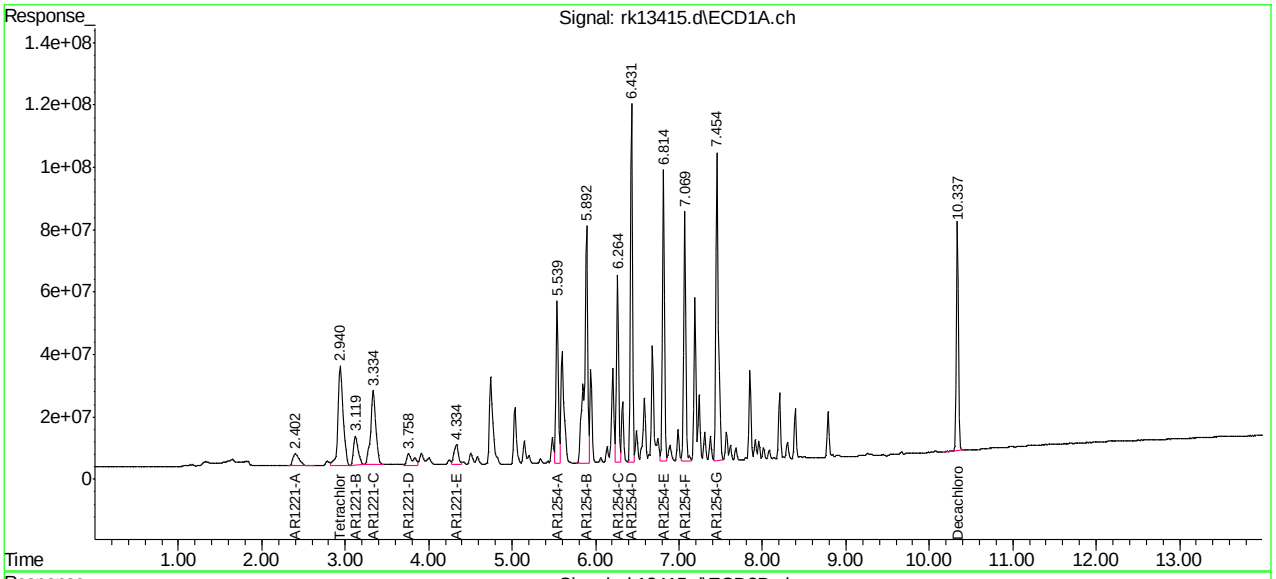
9

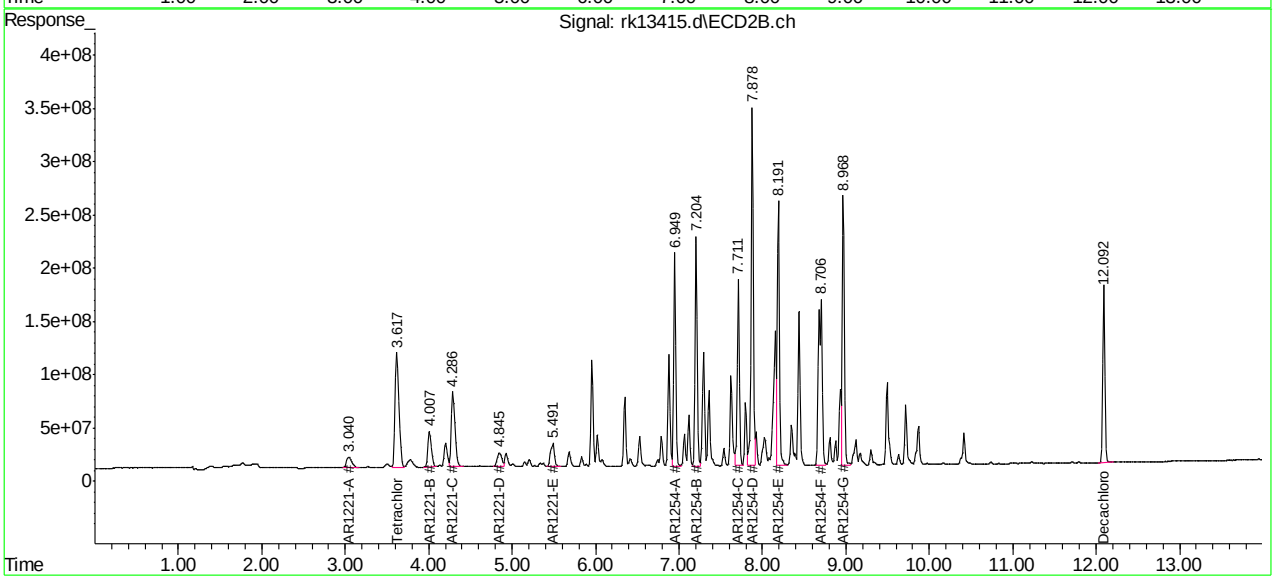
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13415.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:51 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:06:23 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:55:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





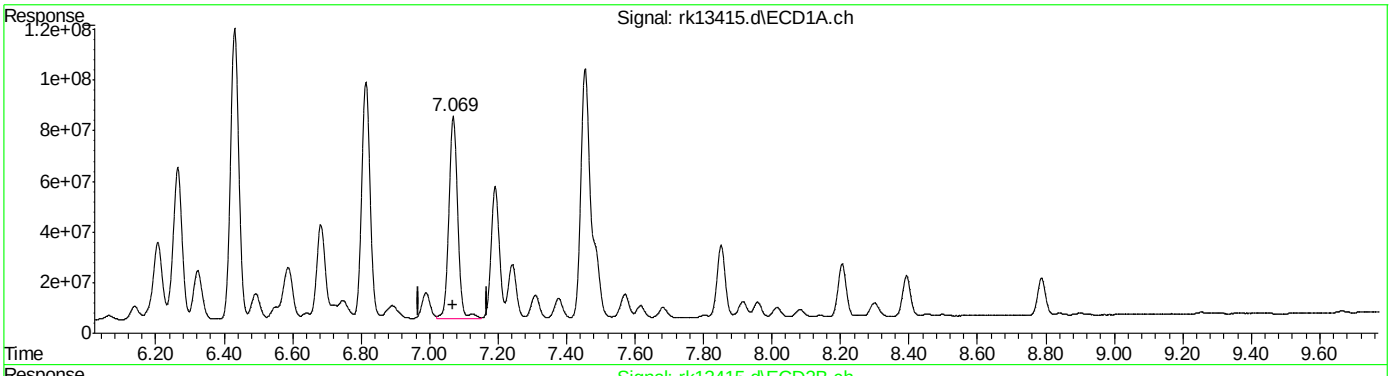
Manual Integration Approval Summary

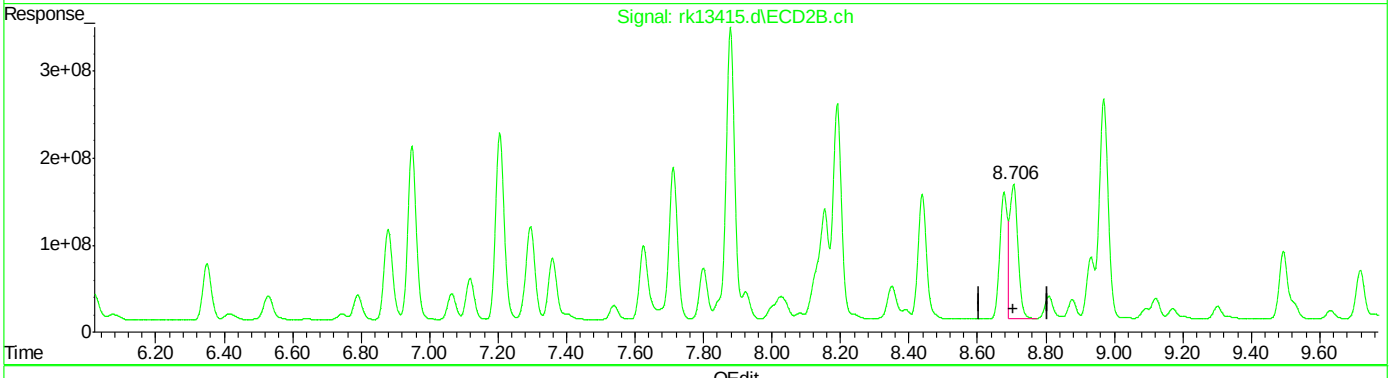
Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13415.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 19:51	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1221-D		1	3.76	Split peak
AR1221-D		2	4.85	Poorly defined baseline
AR1254-F		2	8.71	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13415.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 25 Jul 2022   7:51 pm
Operator  : chorngli
Sample    : ic339-1000
Misc      : op40458,grk339,16.4,,,10,1
ALS Vial  : 88   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:55:39 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Tue Jul 26 22:55:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(29) AR1254-F
7.069min 908.976 PPB
response 1418032040

(29) AR1254-F #2
8.706min 838.208 PPB
response 2618917545

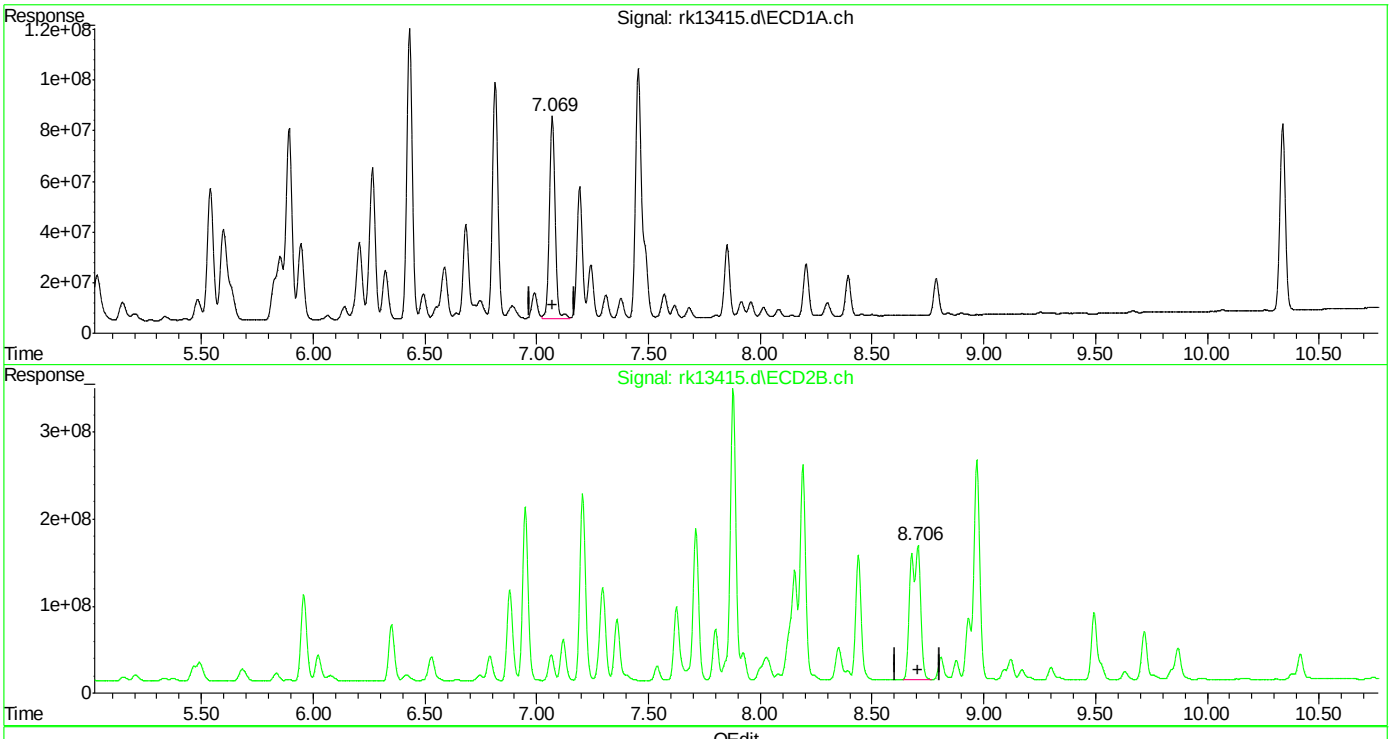
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13415.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:51 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:55:39 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:55:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



(29) AR1254-F
7.069min 908.976 PPB
response 1418032040

(29) AR1254-F #2
8.706min 1552.721 PPB m
response 4851360073

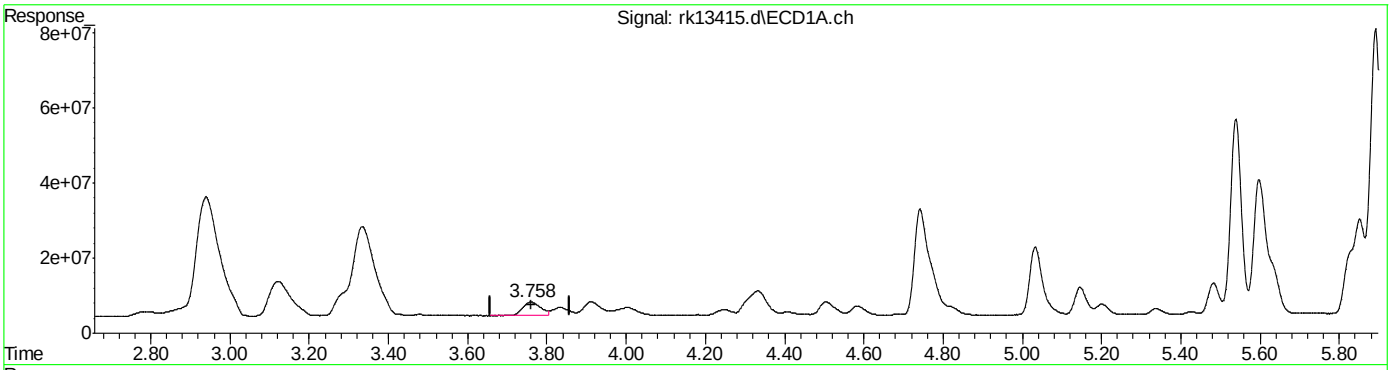
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:56:13 2022

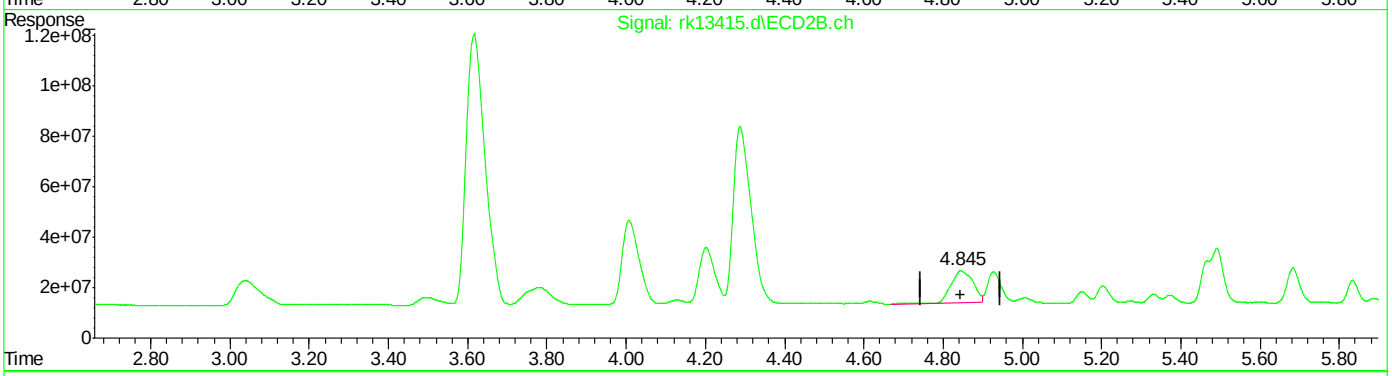
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13415.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:51 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:56:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:55:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(5) AR1221-D
3.760min 795.850 PPB
response 115072250

(5) AR1221-D #2
4.845min 1099.859 PPB
response 470684128

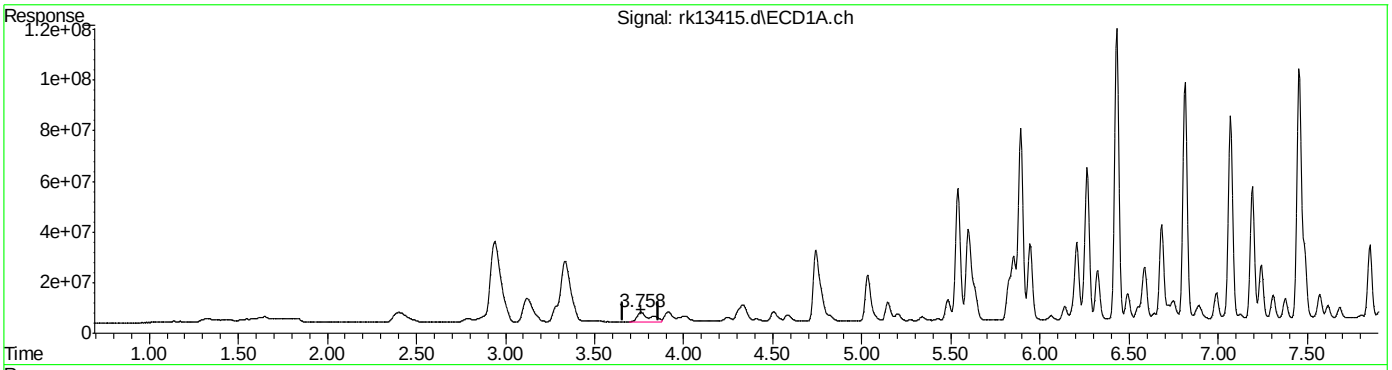
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:06:03 2022

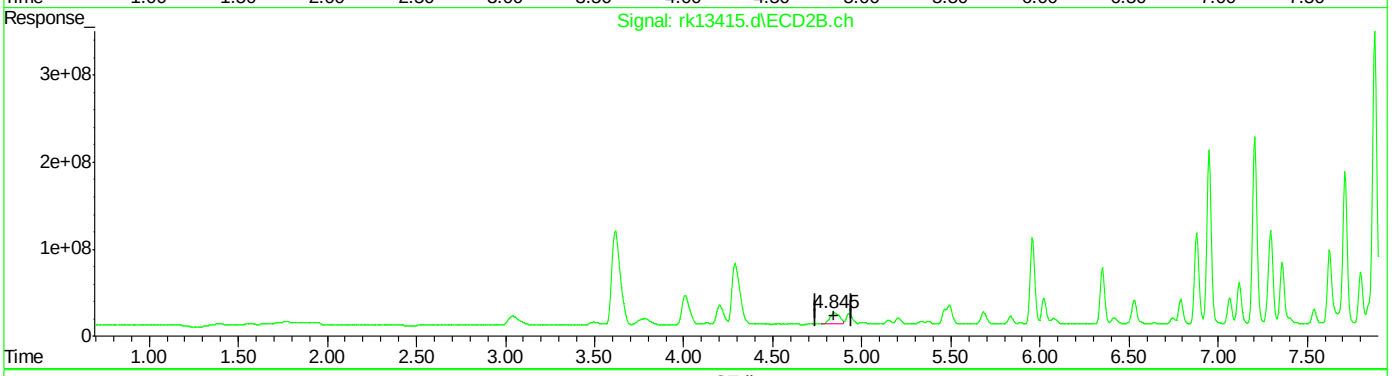
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13415.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 7:51 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:56:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:55:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(5) AR1221-D
3.758min 1287.642 PPB m
response 186180559

(5) AR1221-D #2
4.845min 1186.401 PPB m
response 507719425

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:06:26 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13416.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:08 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:57:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:57:13 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	2.938	3.616	1395.3E6	3727.2E6	44.096	51.137	
	Spiked Amount 40.000			Recovery	=	110.24%	127.84%	
51)	S Decachlor...	10.338	12.092	1332.1E6	3158.9E6	43.805	63.457	#
	Spiked Amount 40.000			Recovery	=	109.51%	158.64%	
	Target Compounds							
7)	AR1232-A	3.334	4.288	815.0E6	1767.6E6	1164.147	1216.372	
8)	AR1232-B	3.758	4.850	559.0E6	1568.2E6	1223.338	1225.996	
9)	AR1232-C	4.332	5.490	1228.5E6	3383.5E6	1279.336	1294.488	
10)	AR1232-D	4.504	5.683	455.7E6	1300.3E6	1201.523	1327.856	
11)	AR1232-E	5.034	6.349	428.8E6	948.5E6	1171.120	1389.259	
41)	AR1262-A	7.068	8.439	1756.6E6	4064.9E6	838.006	1533.053	#
42)	AR1262-B	7.616	9.090	2575.1E6	5843.2E6	845.985	1583.880	#
43)	AR1262-C	7.957	9.525	2002.6E6	5189.9E6	893.994	1613.825	#
44)	AR1262-D	8.393	9.870	4884.9E6	11187.0E6	912.900	1612.030	#
45)	AR1262-E	8.840	10.392	5652.6E6	12801.8E6	974.378m	1656.486m	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.39

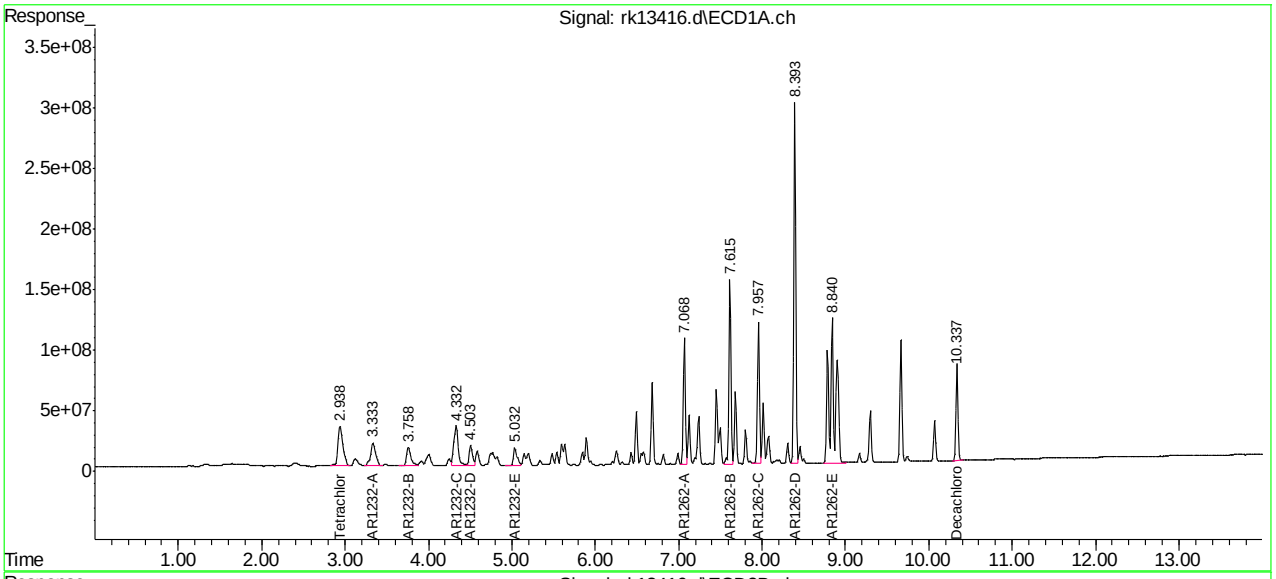
9

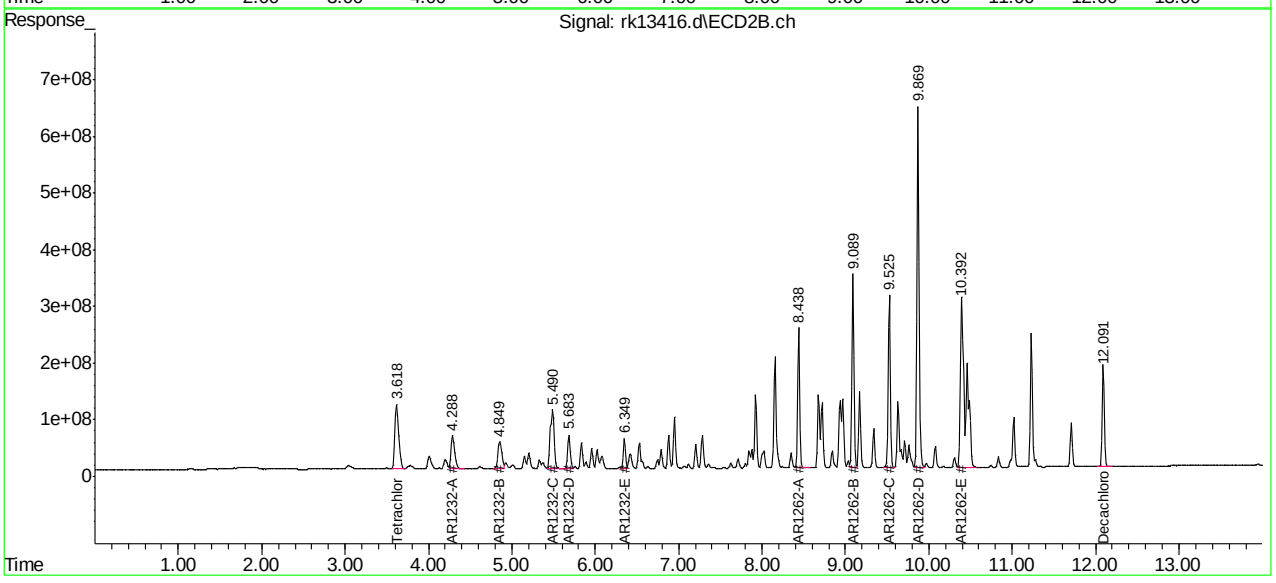
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13416.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:08 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:57:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:57:13 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13416.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 20:08	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

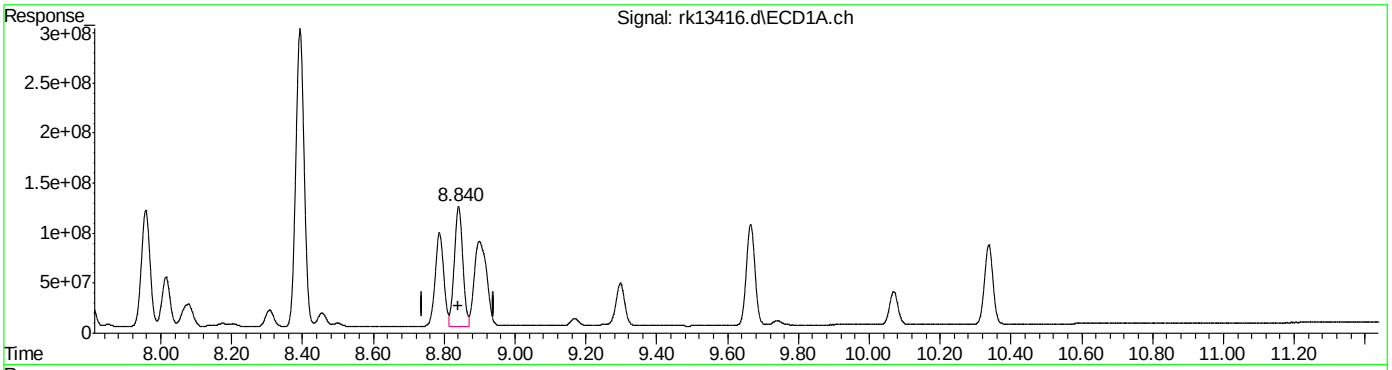
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1262-E		1	8.84	Split peak
AR1262-E		2	10.39	Split peak

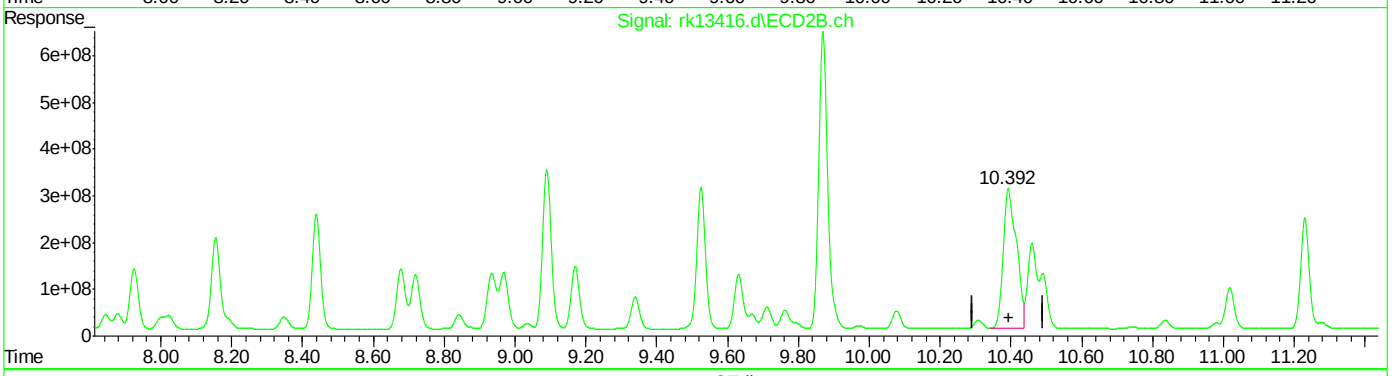
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13416.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:08 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:57:13 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(45) AR1262-E
8.841min 344.517 PPB
response 1998625696

(45) AR1262-E #2
10.393min 1005.506 PPB
response 7770851933

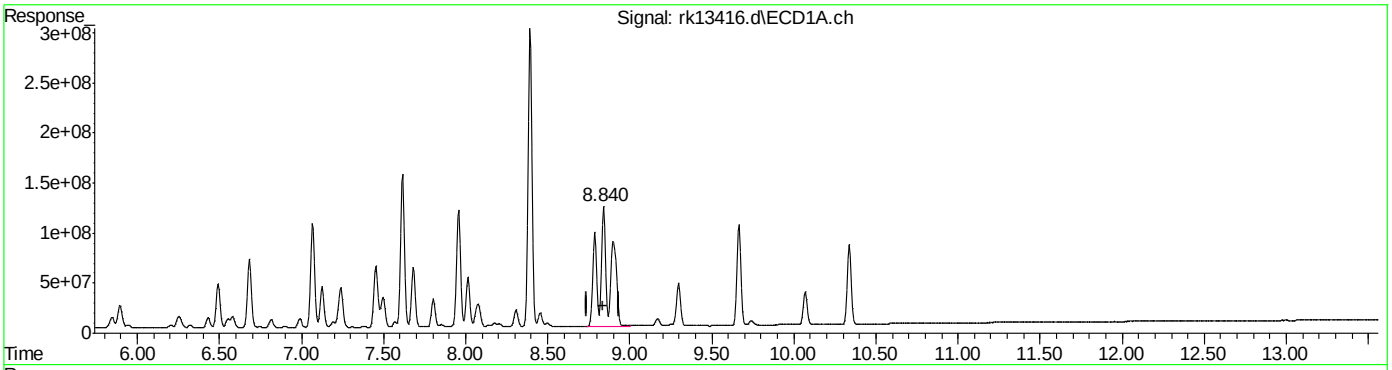
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:57:39 2022

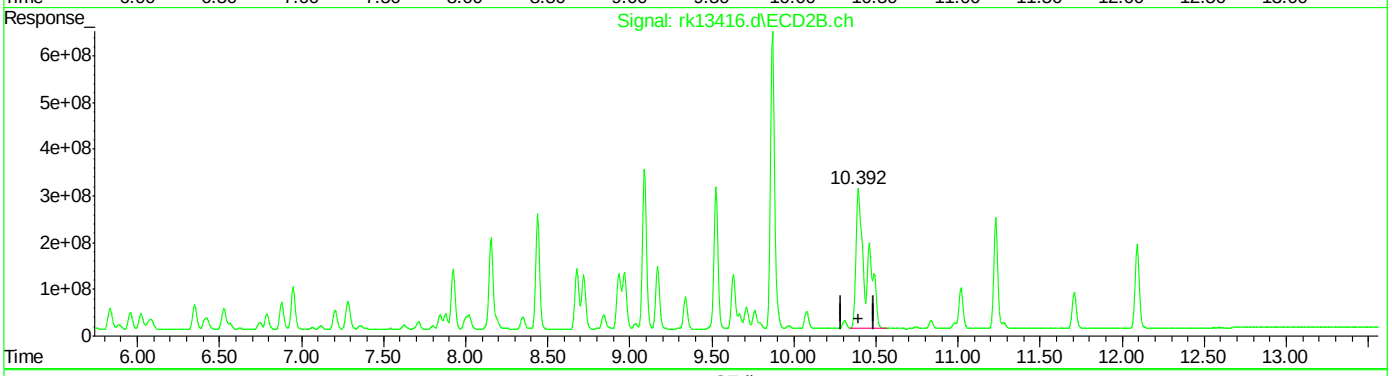
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13416.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:08 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:57:13 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(45) AR1262-E
8.840min 974.378 PPB m
response 5652606812

(45) AR1262-E #2
10.392min 1656.486 PPB m
response 12801823065

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13417.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:24 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:58:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:58:37 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	2.939	3.615	1343.0E6	3660.8E6	42.443	50.225	
	Spiked Amount 40.000			Recovery	=	106.11%	125.56%	
51)	S Decachlor...	10.337	12.091	3713.4E6	8830.8E6	122.110	177.394	#
	Spiked Amount 40.000			Recovery	=	305.28%	443.49%	
	Target Compounds							
12)	AR1242-A	3.758	4.851	909.1E6	2529.3E6	1240.395	1235.912	
13)	AR1242-B	4.332	5.491	2145.5E6	5757.8E6	1314.888	1282.322	
14)	AR1242-C	4.505	5.683	794.8E6	2187.6E6	1228.777	1301.494	
15)	AR1242-D	5.034	6.350	823.9E6	1804.0E6	1200.792	1373.181	
16)	AR1242-E	5.634	6.950	679.1E6	2263.8E6	1117.940	1402.469	#
46)	AR1268-A	8.841	10.392	5697.9E6	12603.4E6	953.215	1583.741	#
47)	AR1268-B	8.895	10.459	5039.9E6	12434.1E6	991.133	1600.108	#
48)	AR1268-C	9.168	10.835	4427.1E6	10353.0E6	984.707	1559.268	#
49)	AR1268-D	9.665	11.230	1841.4E6	4363.7E6	1011.798	1587.122	#
50)	AR1268-E	10.070	11.708	12430.7E6	29835.8E6	1002.504	1513.892	#

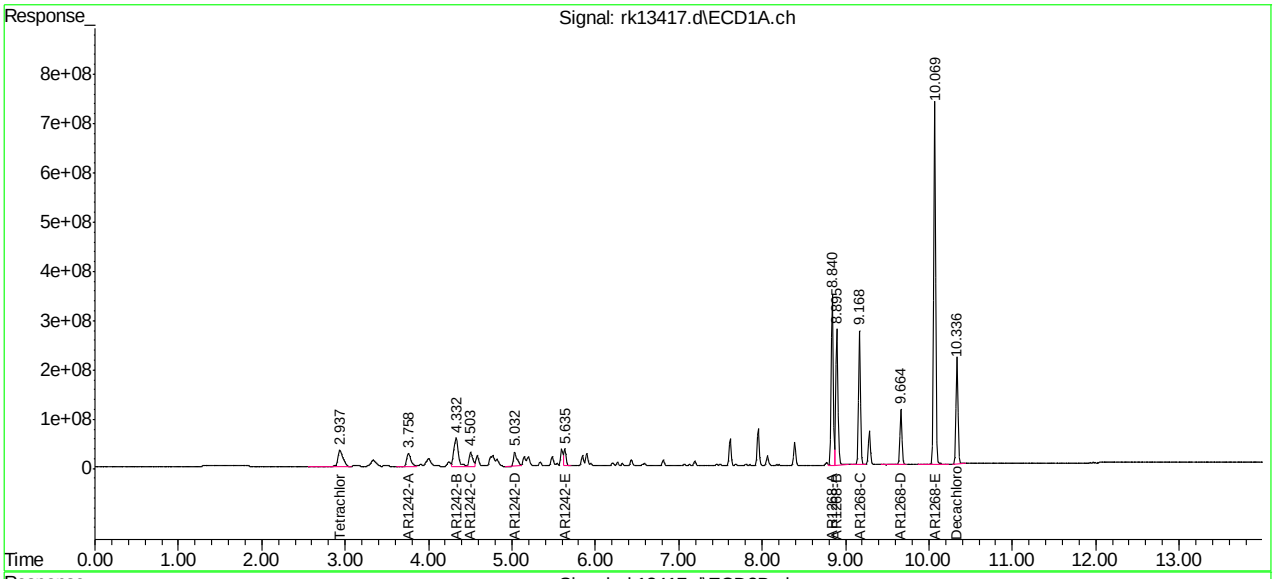
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

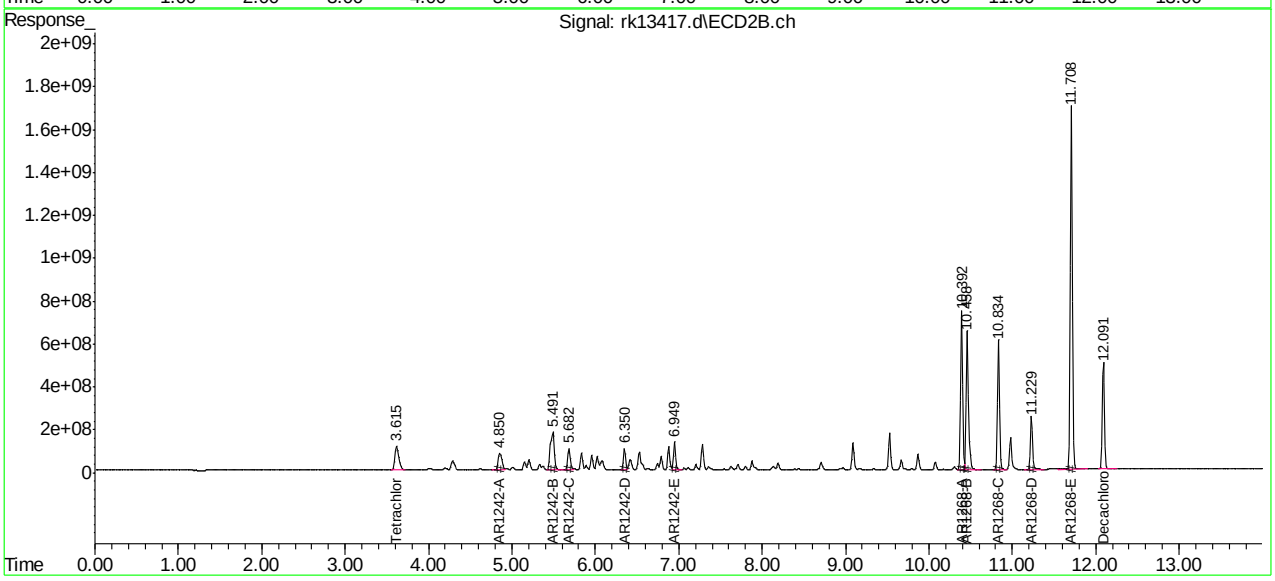
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13417.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:24 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:58:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:58:37 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13418.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:41 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:00:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:59:41 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	2.939	3.616	1286.6E6	3587.2E6	40.663	49.215	
	Spiked Amount 40.000			Recovery	=	101.66%	123.04%	
51)	S Decachlor...	10.337	12.092	1270.6E6	3050.1E6	41.783m	61.272	#
	Spiked Amount 40.000			Recovery	=	104.46%	153.18%	
	Target Compounds							
17)	AR1248-A	3.756	4.850	425.9E6	1258.5E6	1209.649	1277.677	
18)	AR1248-B	4.329	5.489	1257.7E6	3657.1E6	1220.632	1332.989m	
19)	AR1248-C	4.746	5.957	1400.2E6	2221.2E6	1211.449	1380.533	
20)	AR1248-D	5.034	6.350	1292.2E6	2902.0E6	1177.272	1396.149	
21)	AR1248-E	5.147	6.528	720.2E6	3263.1E6	1185.401	1650.277	#
22)	AR1248-F	5.634	6.950	1092.5E6	3979.2E6	1089.651	1427.050	#
23)	AR1248-G	5.896	7.284	967.9E6	3858.0E6	1127.609	1458.944	#

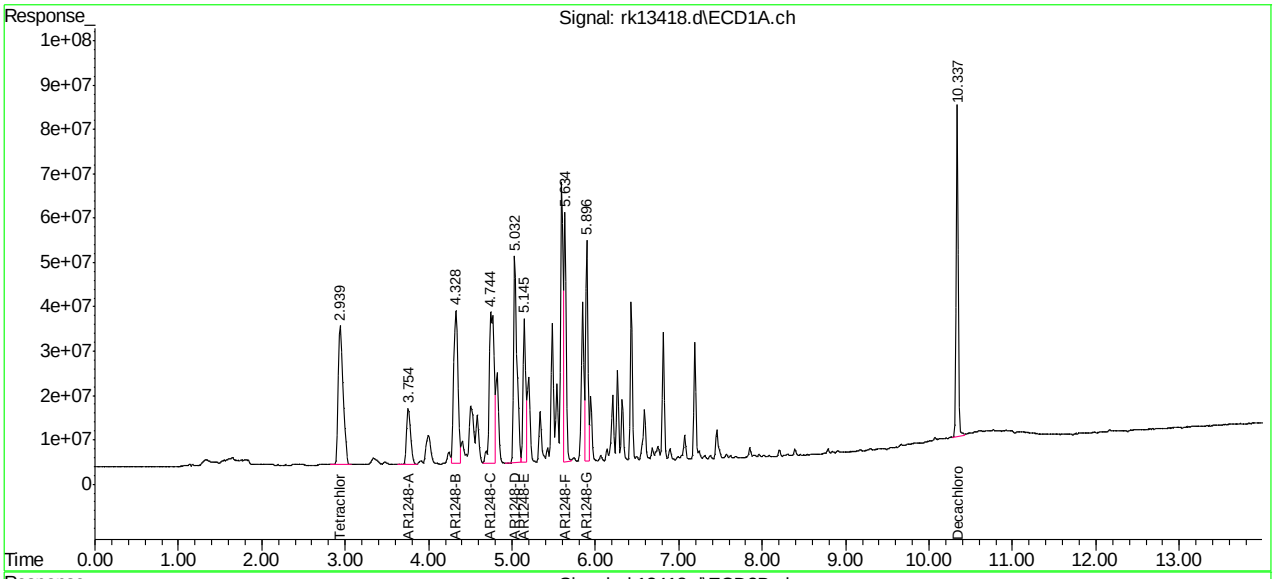
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

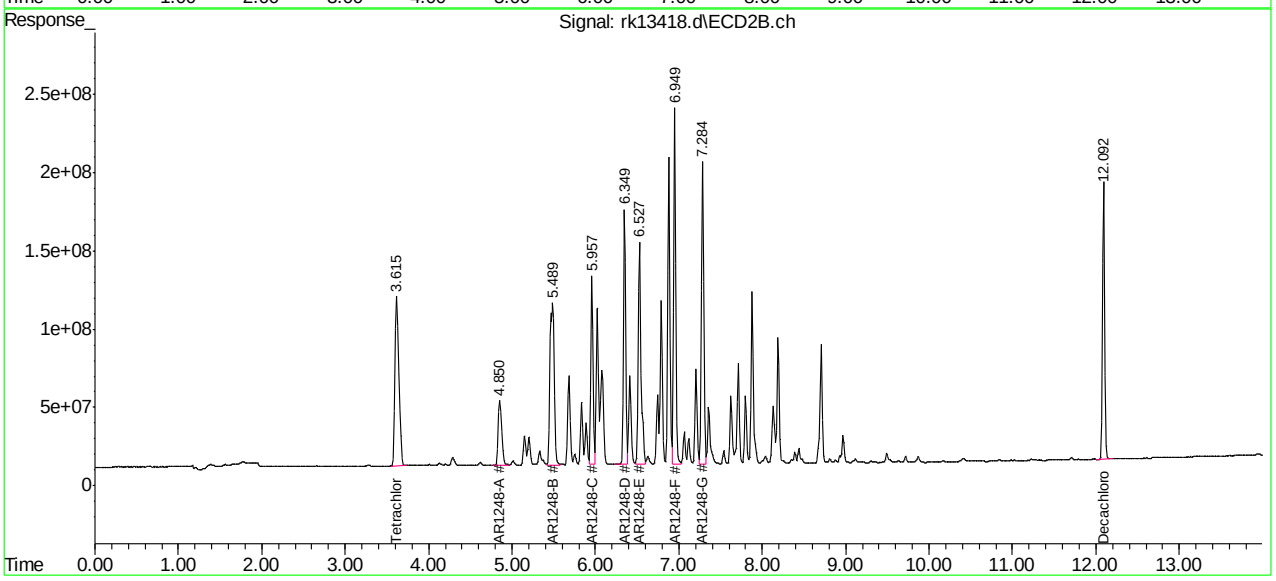
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13418.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:41 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:00:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:59:41 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-IC339	**Method:**	SW846 8082A
Lab FileID:	RK13418.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 20:41	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

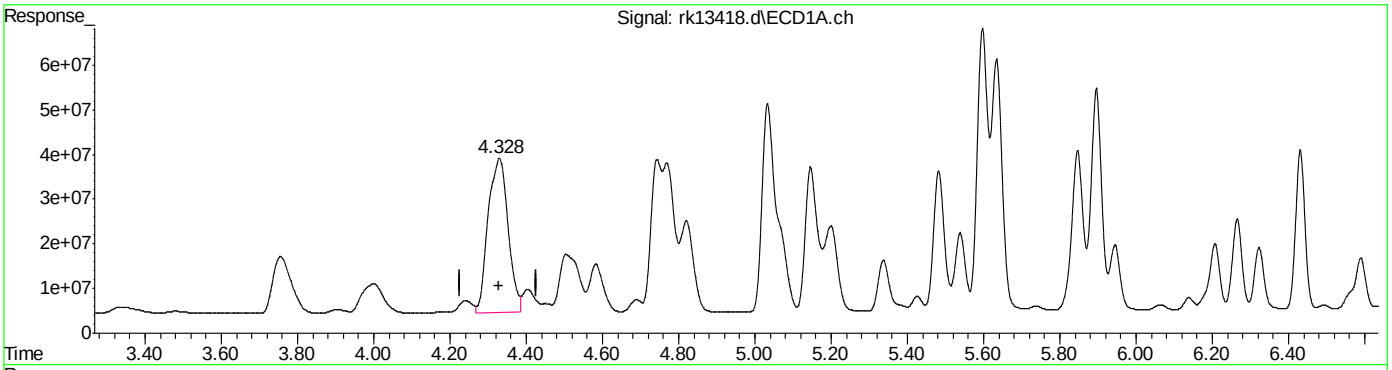
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1248-B		2	5.49	Split peak
Decachlorobiphenyl	2051-24-3	1	10.34	Poorly defined baseline

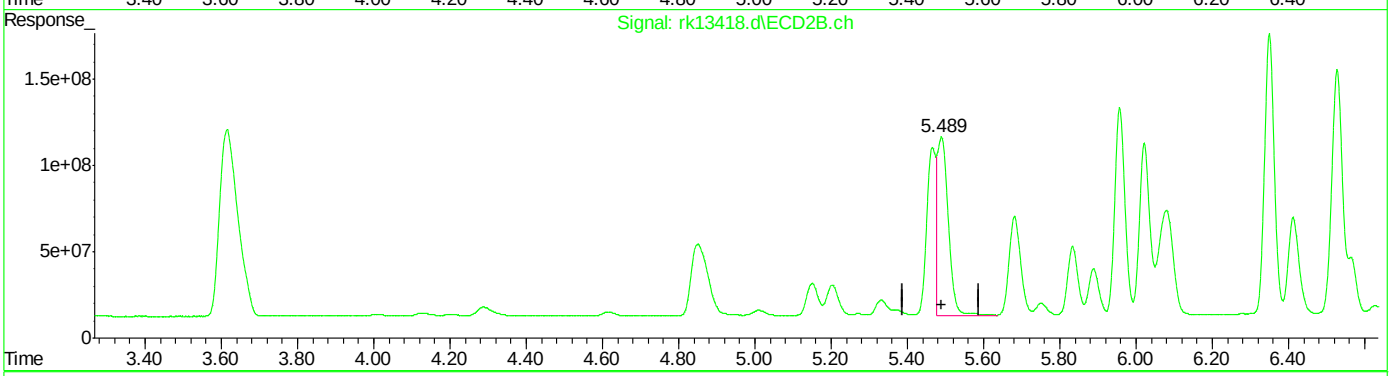
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13418.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:41 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:59:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:59:41 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(18) AR1248-B
4.329min 1220.632 PPB
response 1257675891

(18) AR1248-B #2
5.490min 782.856 PPB
response 2147767775

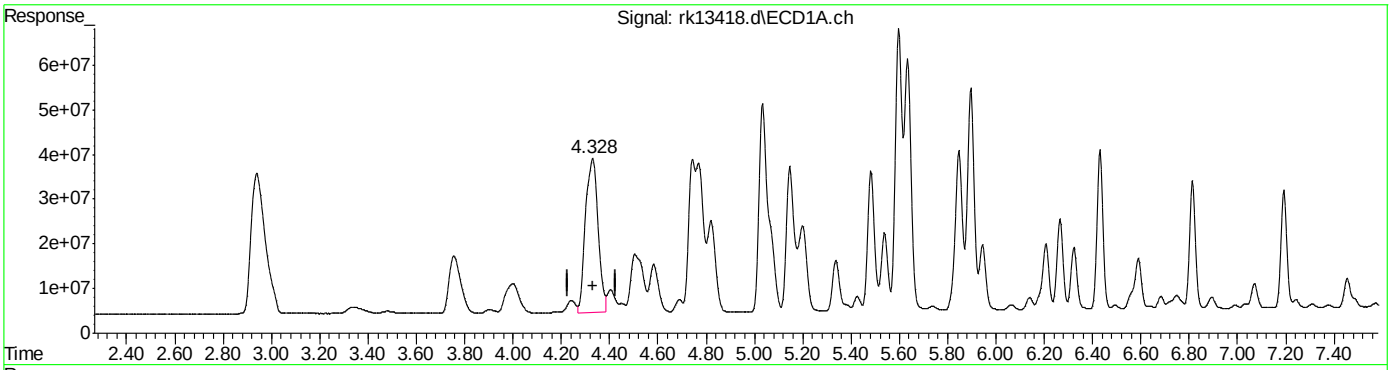
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 22:59:56 2022

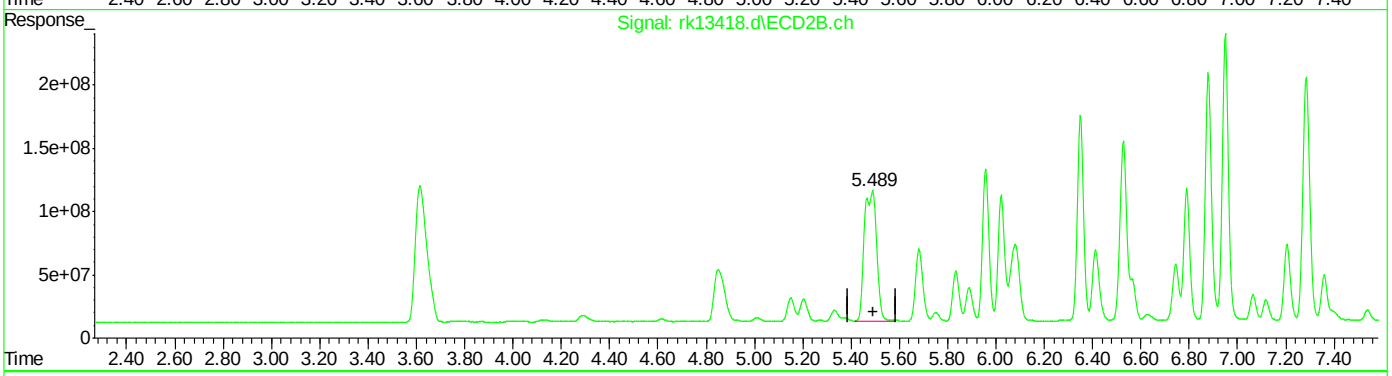
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13418.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:41 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:59:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:59:41 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(18) AR1248-B
4.329min 1220.632 PPB
response 1257675891

(18) AR1248-B #2
5.489min 1332.989 PPB m
response 3657059712

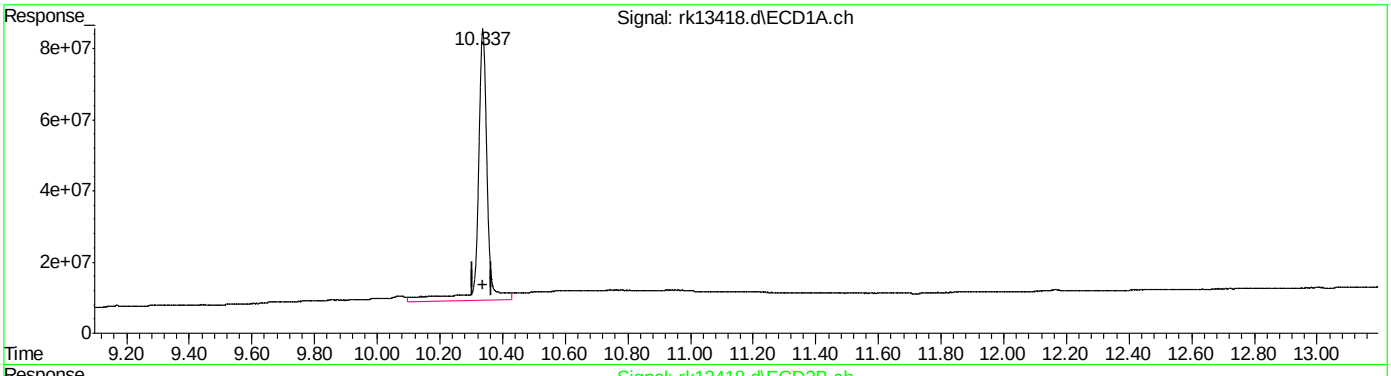
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:00:03 2022

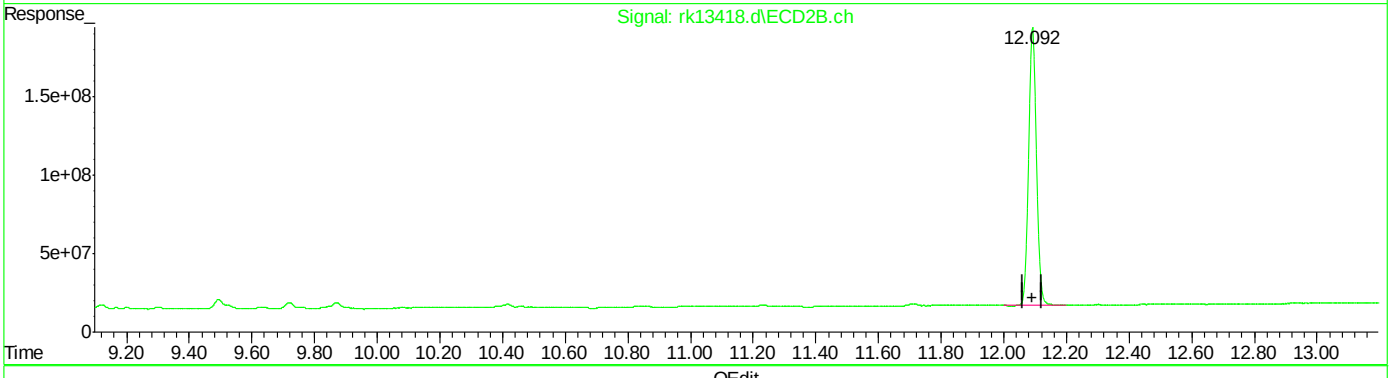
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13418.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:41 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:59:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:59:41 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)
10.337min 49.944 ppb
response 1518837721

(51) Decachlorobiphenyl #2 (S)
12.092min 61.272 ppb
response 3050141662

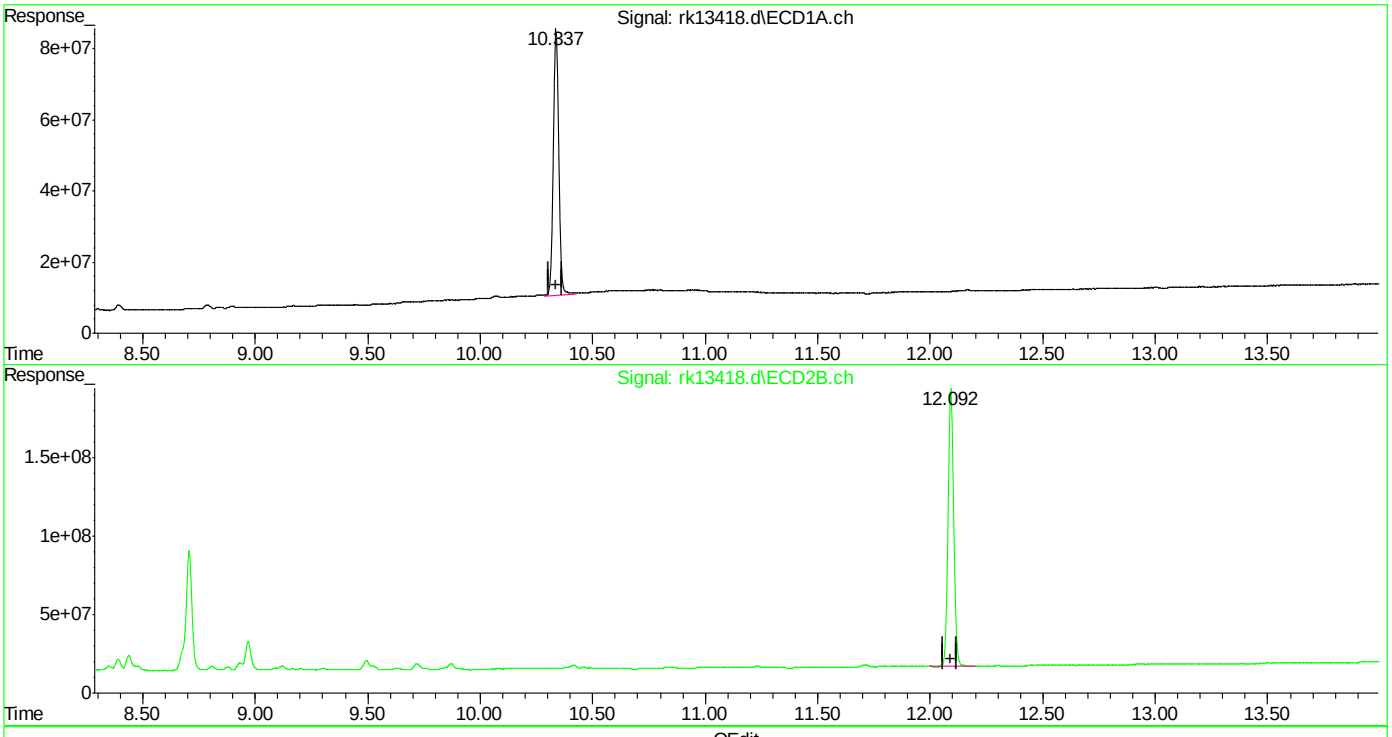
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:00:17 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13418.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:41 pm
Operator : chorngli
Sample : ic339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 22:59:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 22:59:41 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



QEdit

(51) Decachlorobiphenyl (S)
10.337min 41.783 ppb m
response 1270633731

(51) Decachlorobiphenyl #2 (S)
12.092min 61.272 ppb
response 3050141662

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:00:21 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13419.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:57 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:05:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:01:54 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.939	3.615	1636.3E6	4498.3E6	47.555	47.524
	Spiked Amount 40.000			Recovery	=	118.89%	118.81%
51) S	Decachlor...	10.337	12.092	1448.5E6	3441.7E6	42.463	43.915
	Spiked Amount 40.000			Recovery	=	106.16%	109.79%
	Target Compounds						
31)	AR1016-A	3.335	4.287	670.9E6	1532.1E6	1038.372	1082.234
32)	AR1016-B	3.758	4.852	1236.5E6	3569.1E6	1091.798	1113.286m
33)	AR1016-C	4.332	5.491	2979.4E6	7892.7E6	1105.284	1108.447
34)	AR1016-D	4.504	5.683	1096.2E6	2991.3E6	1097.747	1099.704
35)	AR1016-E	5.034	6.349	1091.4E6	2402.3E6	1071.172	1083.946
36)	AR1260-A	7.069	8.438	2640.0E6	5530.4E6	1164.254	1175.017
37)	AR1260-B	7.616	9.090	1613.6E6	3665.9E6	937.135	967.121
38)	AR1260-C	7.958	9.525	1487.9E6	4184.1E6	968.195	1014.685
39)	AR1260-D	8.393	9.869	3905.4E6	9327.8E6	1000.769	1054.621
40)	AR1260-E	8.787	10.414	3783.7E6	8781.3E6	919.475m	963.468m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

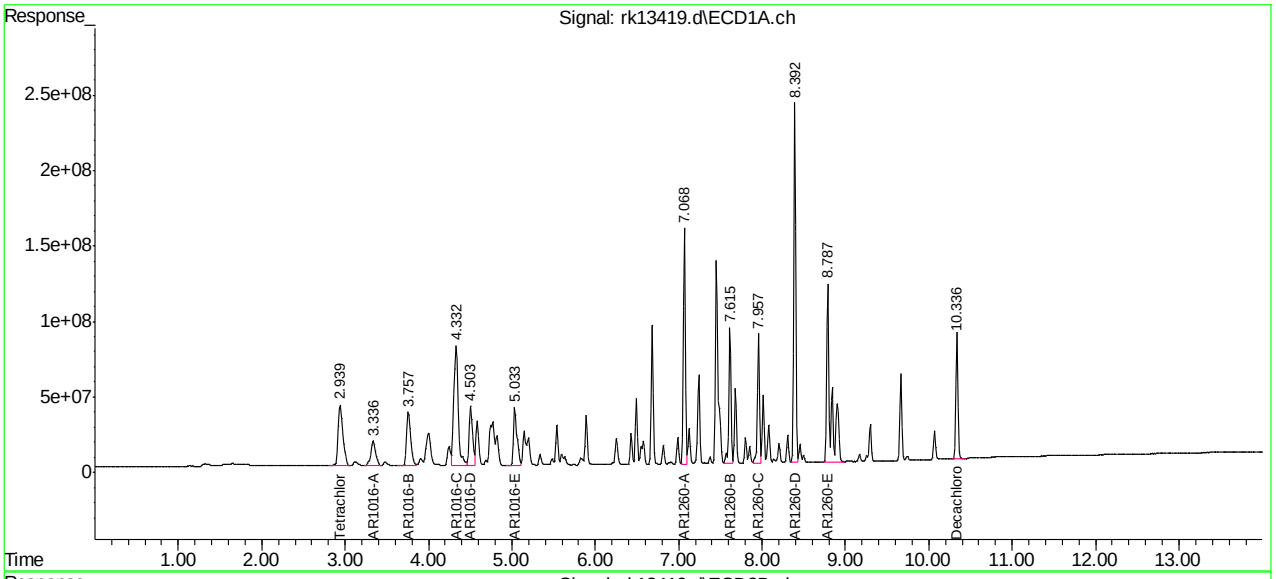
9.6.42
9

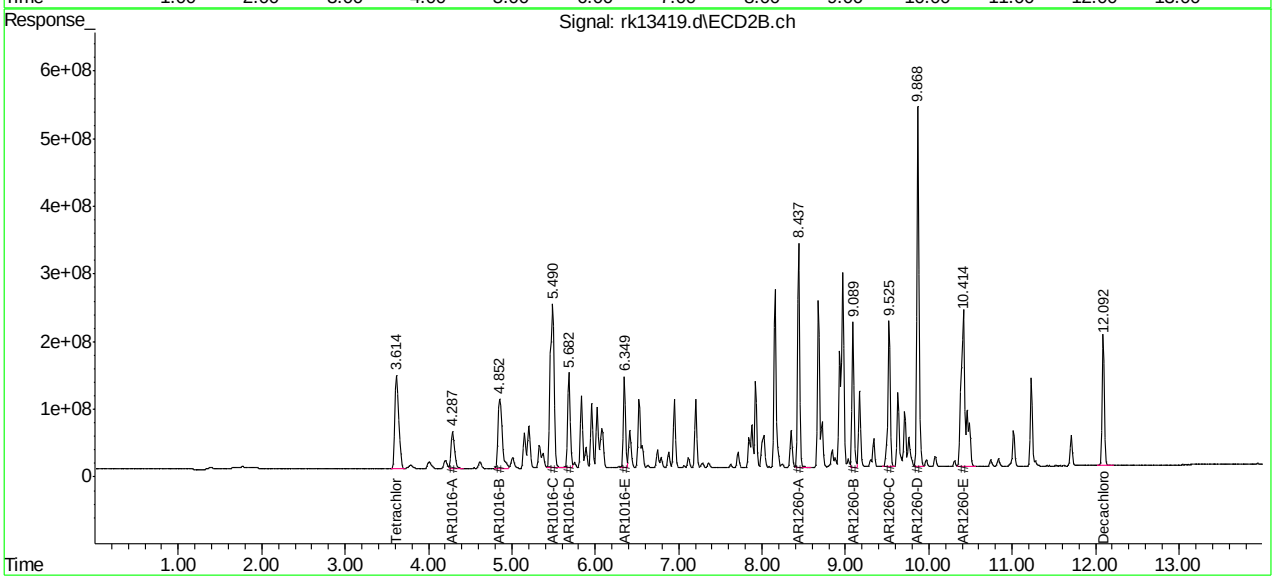
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13419.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:57 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:05:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:01:54 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





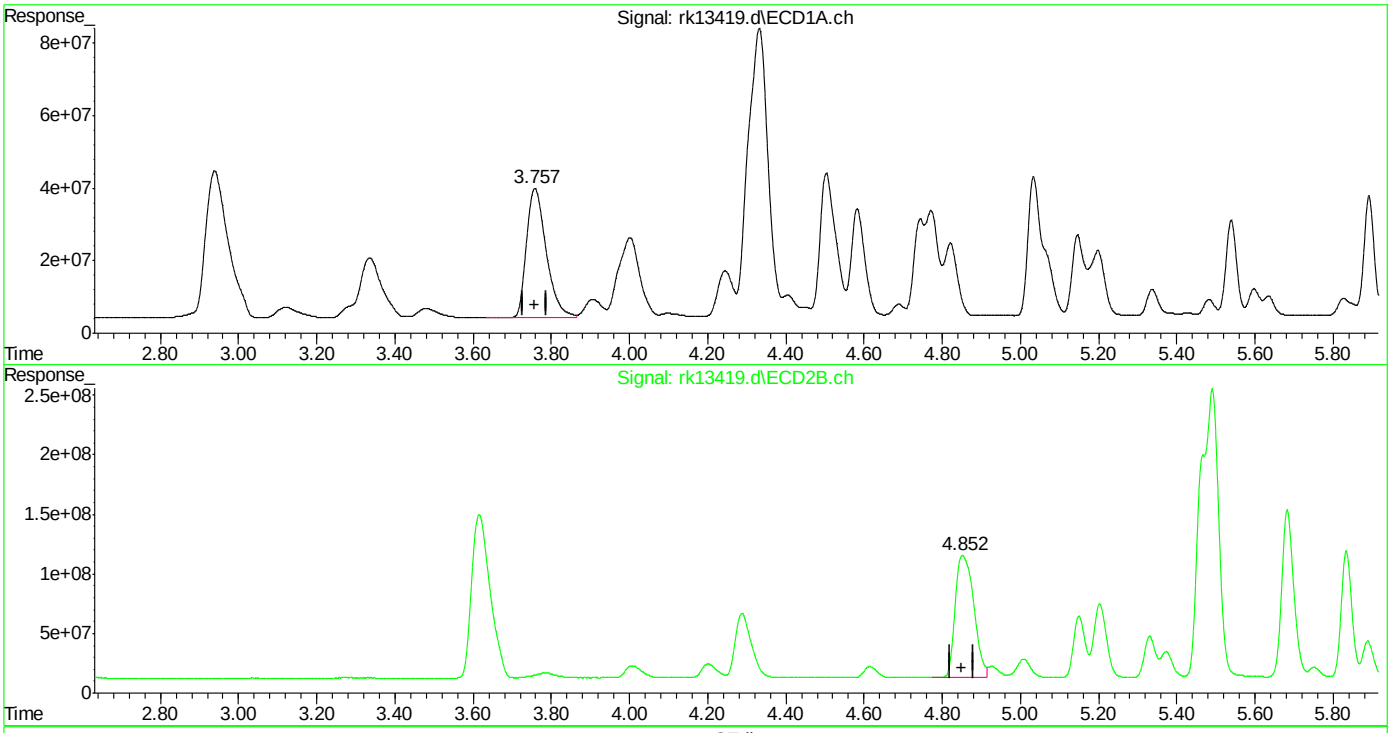
Manual Integration Approval Summary

Sample Number:	GRK339-ICV339	**Method:**	SW846 8082A
Lab FileID:	RK13419.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 20:57	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-B		2	4.85	Split peak
AR1260-E		1	8.79	Split peak
AR1260-E		2	10.41	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13419.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 25 Jul 2022   8:57 pm
Operator  : chorngli
Sample    : icv339-1000
Misc      : op40458,grk339,16.4,,,10,1
ALS Vial  : 92   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:02:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Tue Jul 26 23:01:54 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```



QEdit

(32) AR1016-B

3.758min 1091.798 PPB

response 1236470561

(32) AR1016-B #2

4.851min 1057.033 PPB

response 3388720867

(+) = Expected Retention Time

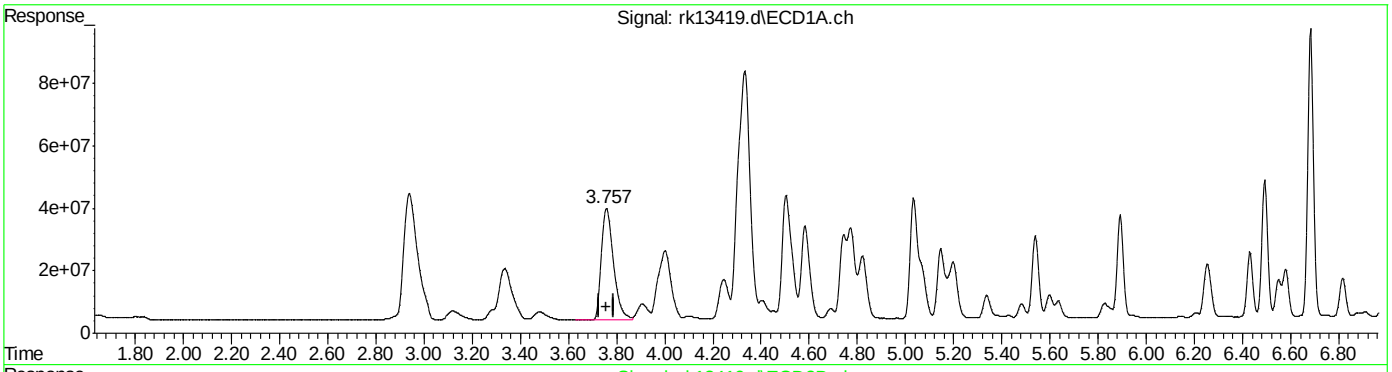
RKPCB339.M Tue Jul 26 23:04:38 2022

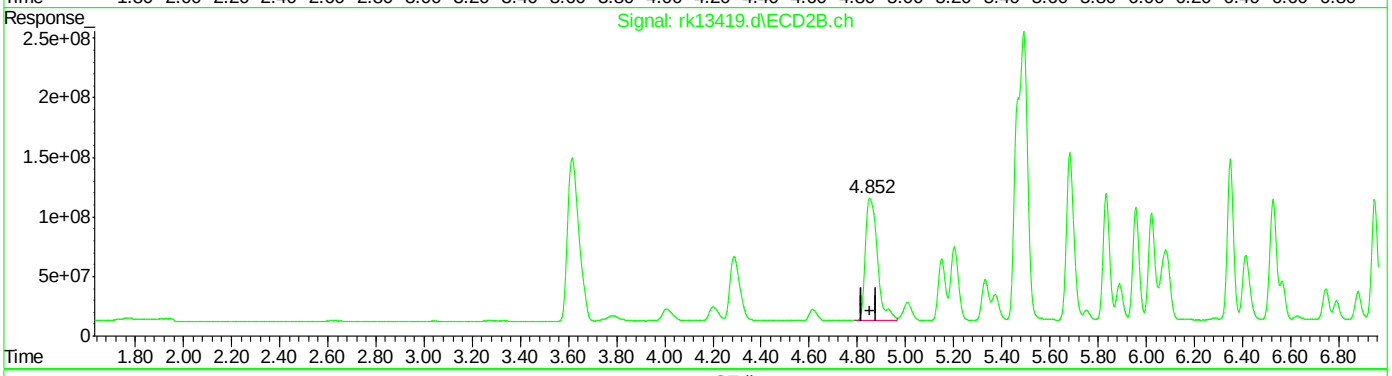
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13419.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:57 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:02:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:01:54 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B
3.758min 1091.798 PPB
response 1236470561

(32) AR1016-B #2
4.852min 1113.286 PPB m
response 3569061314

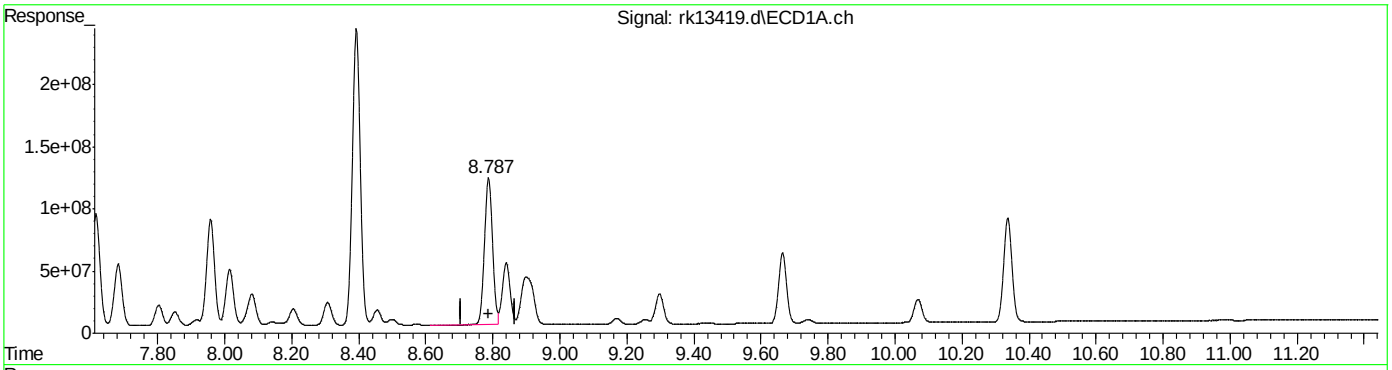
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:04:45 2022

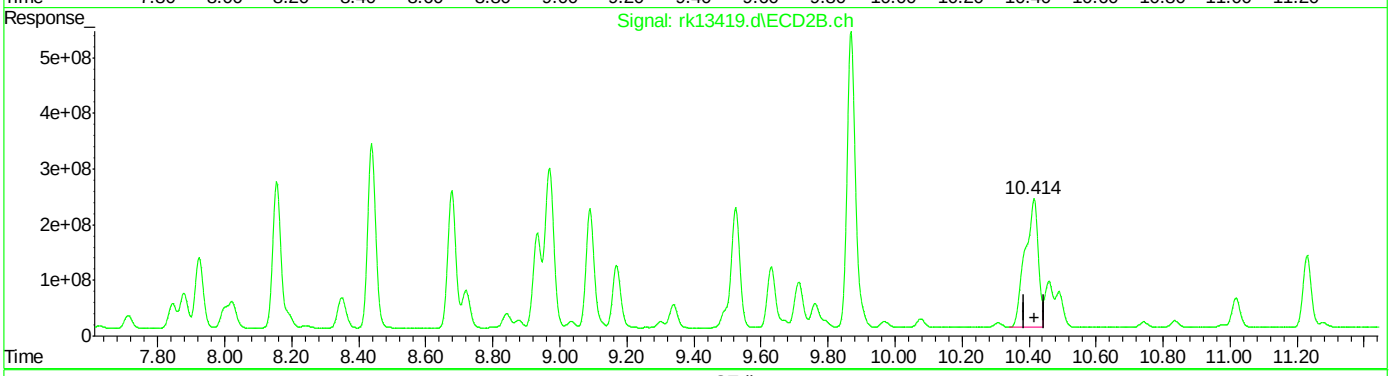
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13419.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:57 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:02:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:01:54 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 479.790 PPB
response 1974354231

(40) AR1260-E #2
10.415min 699.959 PPB
response 6379584669

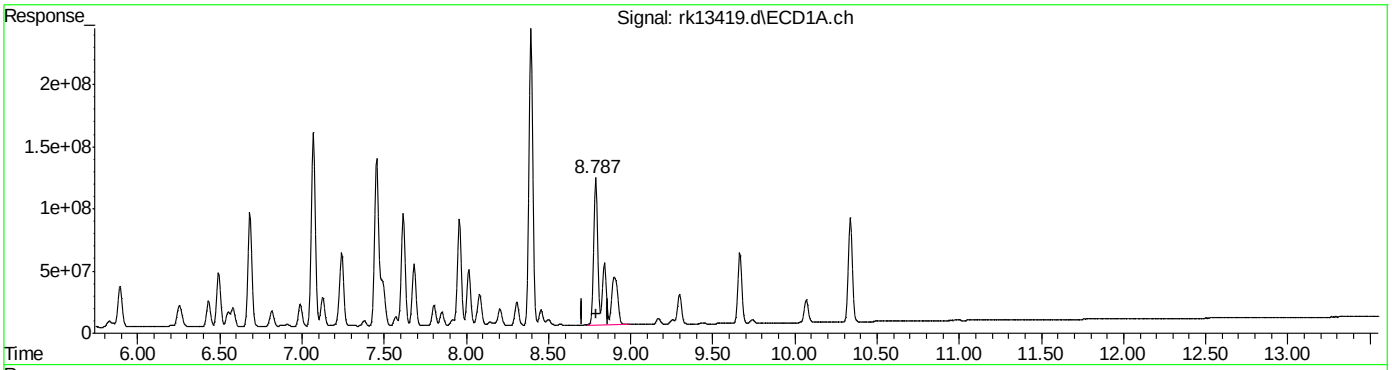
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:04:58 2022

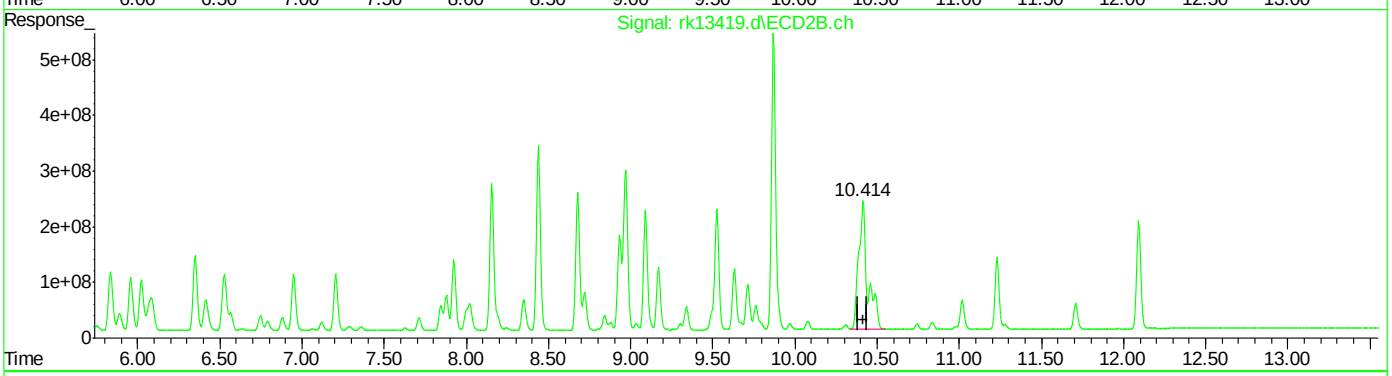
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13419.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 8:57 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:02:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:01:54 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E
8.787min 919.475 PPB m
response 3783672907

(40) AR1260-E #2
10.414min 963.468 PPB m
response 8781266593

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:05:06 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13420.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:14 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:07:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.939	3.615	1663.5E6	4433.1E6	48.344	46.835
	Spiked Amount 40.000			Recovery	=	120.86%	117.09%
51) S	Decachlor...	10.338	12.092	1404.9E6	3276.6E6	41.184	41.809
	Spiked Amount 40.000			Recovery	=	102.96%	104.52%
	Target Compounds						
2)	AR1221-A	2.398	3.038	215.0E6	435.0E6	1086.302	1060.713
3)	AR1221-B	3.119	4.007	343.9E6	955.3E6	986.814	982.468
4)	AR1221-C	3.333	4.287	983.4E6	2140.1E6	976.811	988.008
5)	AR1221-D	3.757	4.840	157.0E6	446.5E6	843.116m	879.484m
6)	AR1221-E	4.331	5.490	200.3E6	593.1E6	862.792	857.291
24)	AR1254-A	5.539	6.948	1065.4E6	3708.6E6	1068.176	1077.302
25)	AR1254-B	5.891	7.204	2198.6E6	4035.9E6	1065.563	1067.376
26)	AR1254-C	6.264	7.712	1161.9E6	3336.0E6	1070.750	1070.119
27)	AR1254-D	6.431	7.878	2057.7E6	6379.5E6	1064.445	1066.735
28)	AR1254-E	6.814	8.190	1691.0E6	4654.8E6	1056.190	1056.014
29)	AR1254-F	7.069	8.705	1538.0E6	5249.1E6	1084.614	1081.994m
30)	AR1254-G	7.455	8.969	2256.1E6	5020.5E6	1077.384	1079.653

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

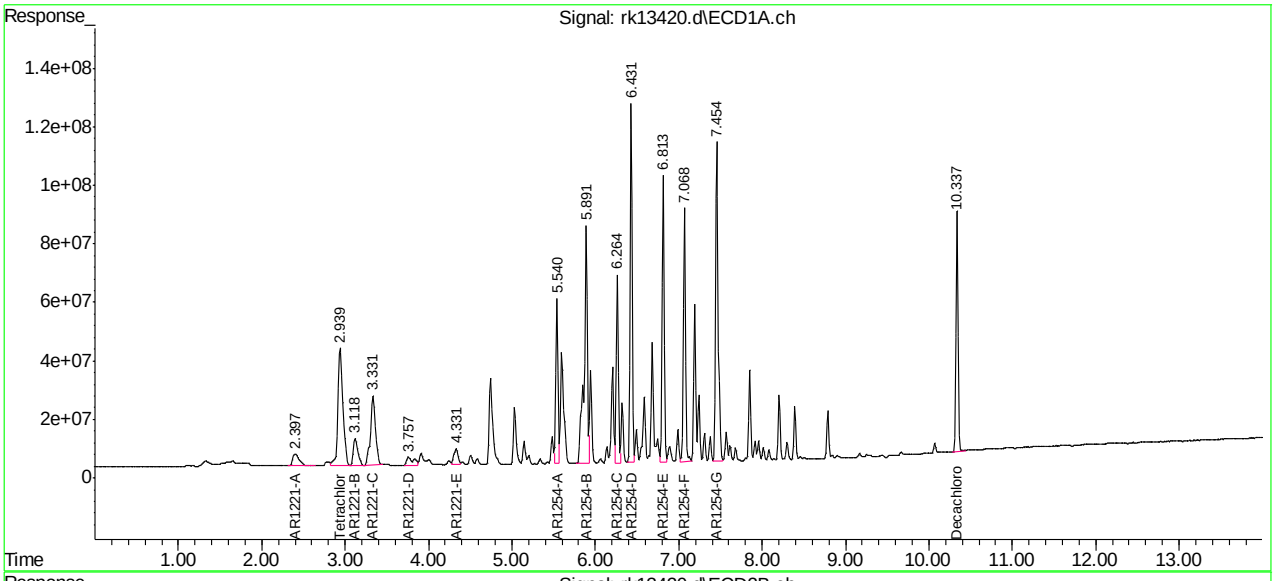
9.6.43
9

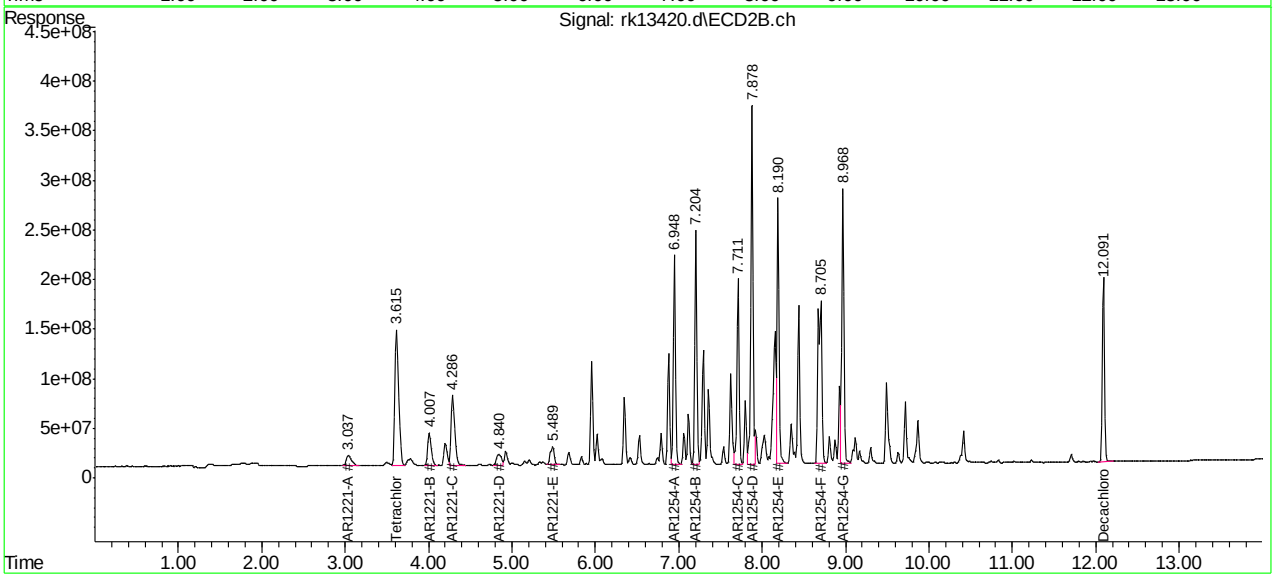
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13420.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:14 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:07:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-ICV339	**Method:**	SW846 8082A
Lab FileID:	RK13420.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 21:14	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

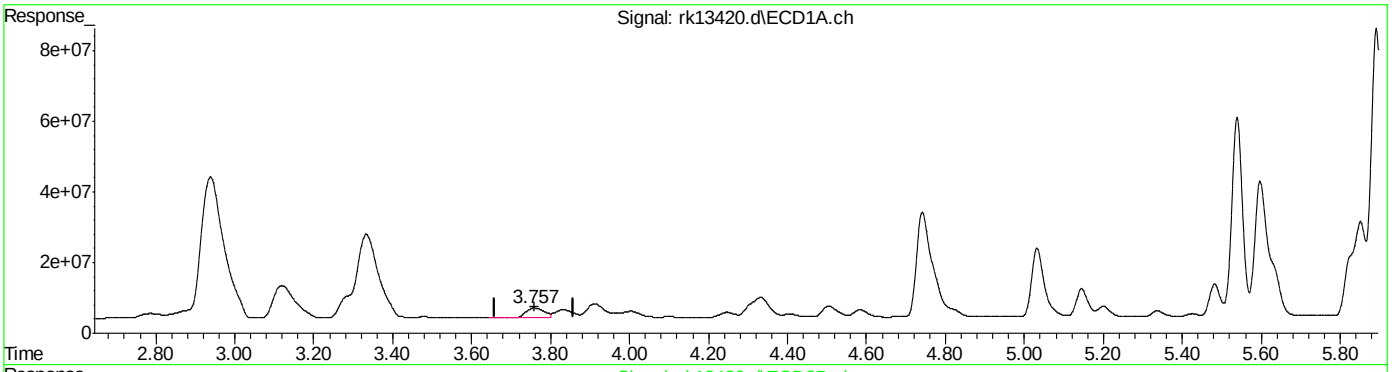
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1221-D		1	3.76	Split peak
AR1221-D		2	4.84	Poorly defined baseline
AR1254-F		2	8.71	Split peak

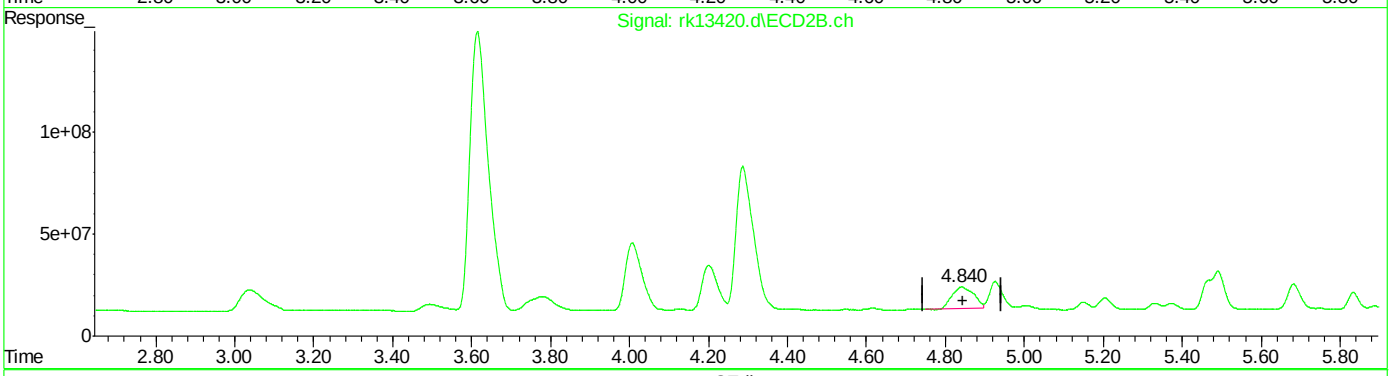
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13420.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:14 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:05:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:01:54 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

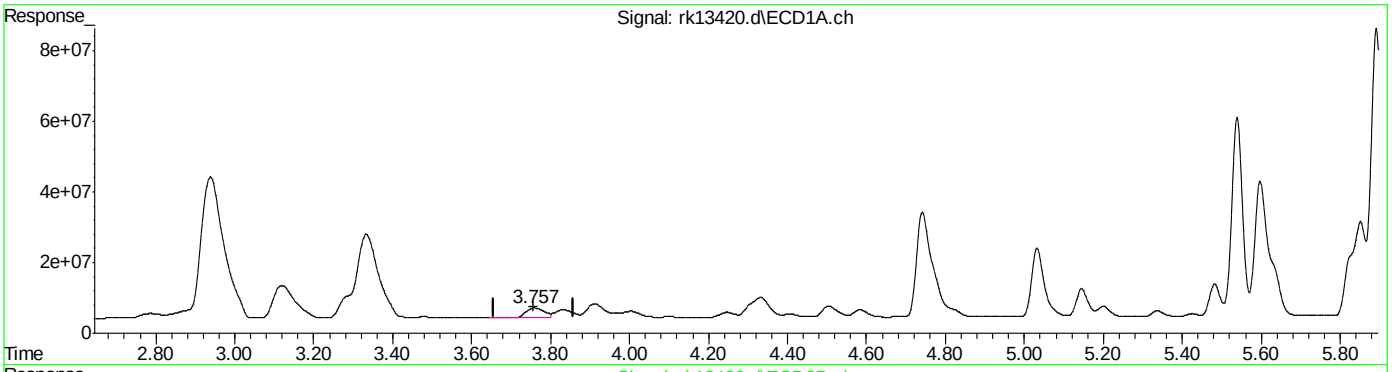
(5) AR1221-D
3.759min 760.636 PPB
response 87528039

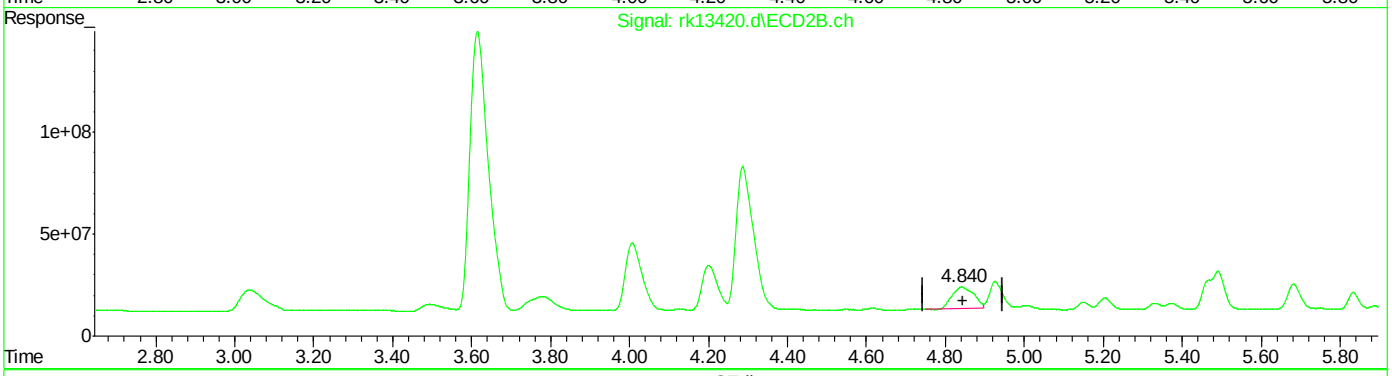
(5) AR1221-D #2
4.841min 867.683 PPB
response 408404592

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:05:35 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13420.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 25 Jul 2022   9:14 pm
Operator  : chorngli
Sample    : icv339-1000
Misc      : op40458,grk339,16.4,,,10,1
ALS Vial  : 93   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:06:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(5) AR1221-D
3.759min 470.124 PPB
response 87528039

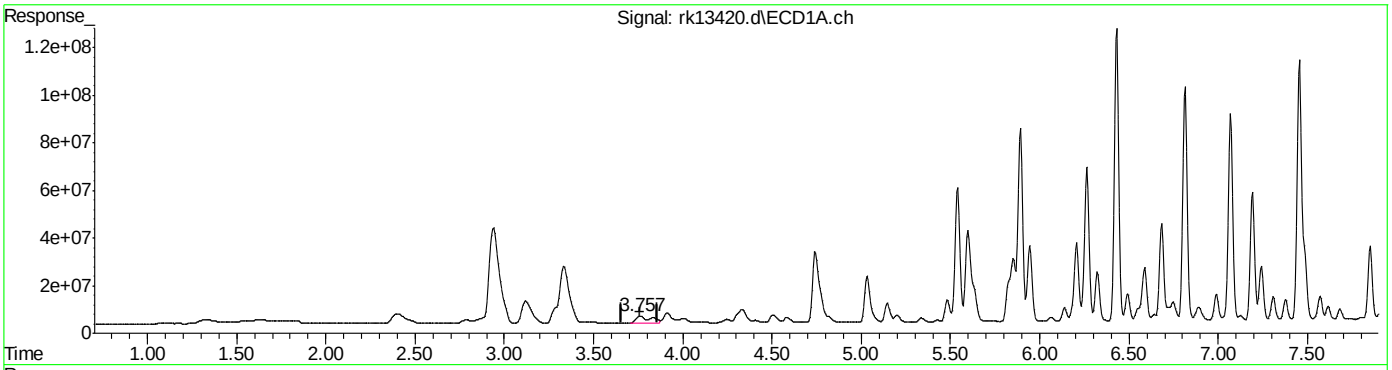
(5) AR1221-D #2
4.841min 804.390 PPB
response 408404592

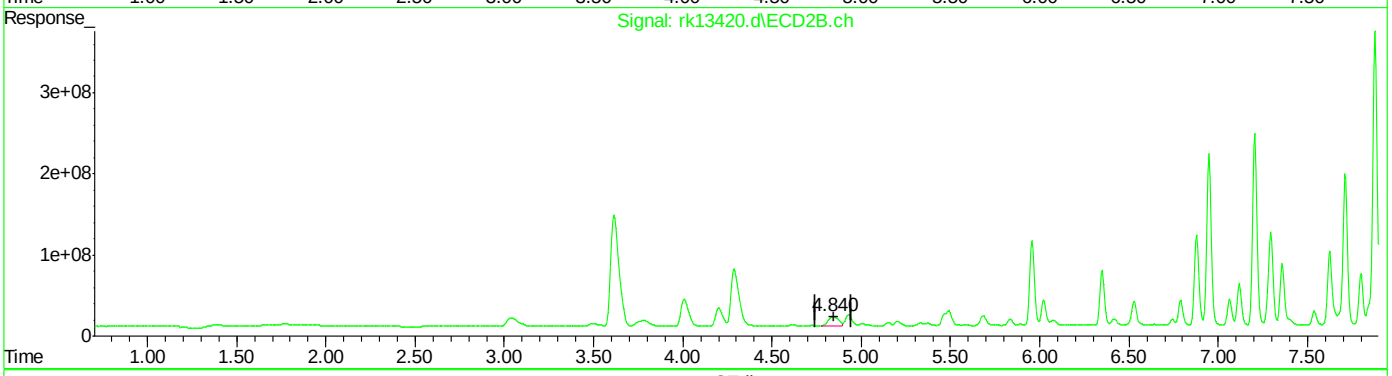
(+) = Expected Retention Time

RKPCB339.M Tue Jul 26 23:07:04 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13420.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 25 Jul 2022   9:14 pm
Operator  : chorngli
Sample    : icv339-1000
Misc      : op40458,grk339,16.4,,,10,1
ALS Vial  : 93   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:06:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(5) AR1221-D

3.757min 843.116 PPB m

response 156971753

(5) AR1221-D #2

4.840min 879.484 PPB m

response 446531231

(+) = Expected Retention Time

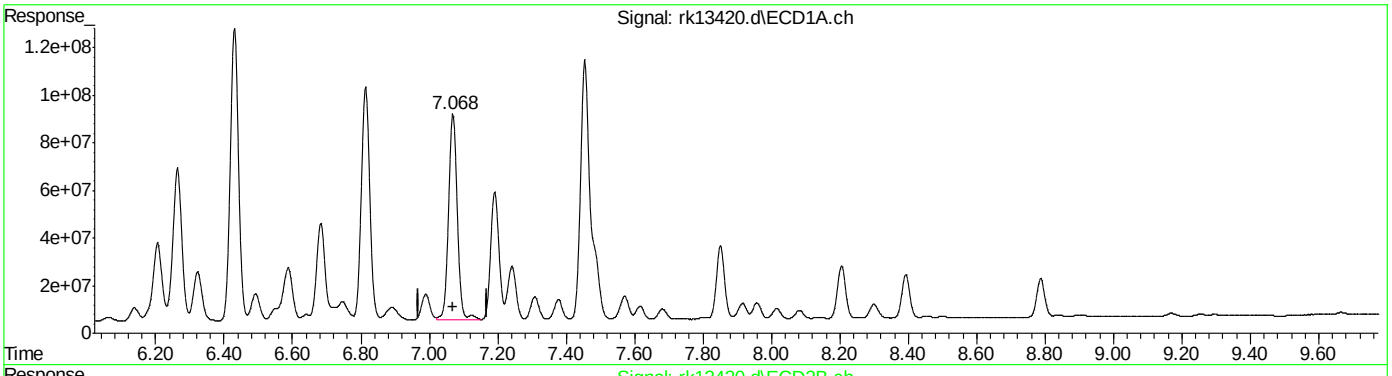
RKPCB339.M Tue Jul 26 23:07:14 2022

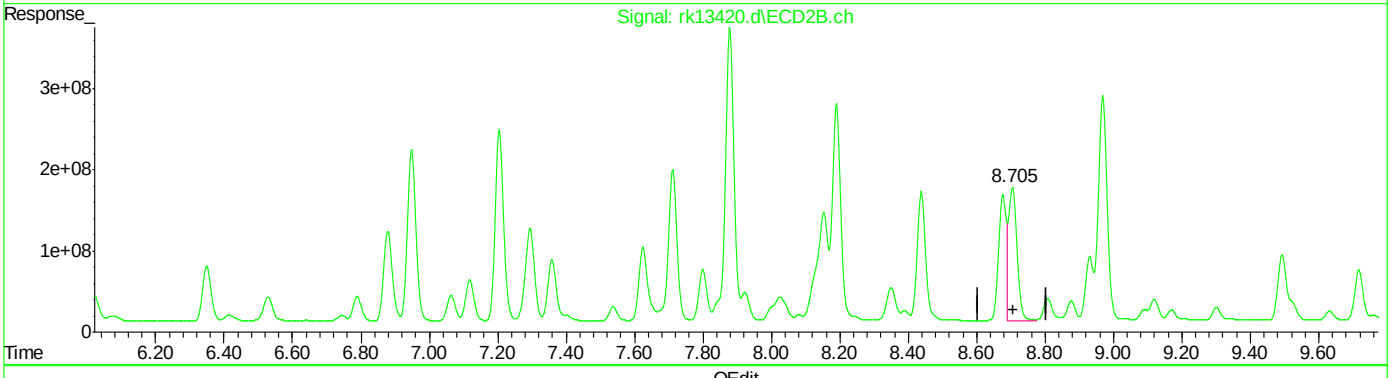
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13420.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:14 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:06:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(29) AR1254-F
7.069min 1084.614 PPB
response 1538017031

(29) AR1254-F #2
8.705min 581.984 PPB
response 2823415542

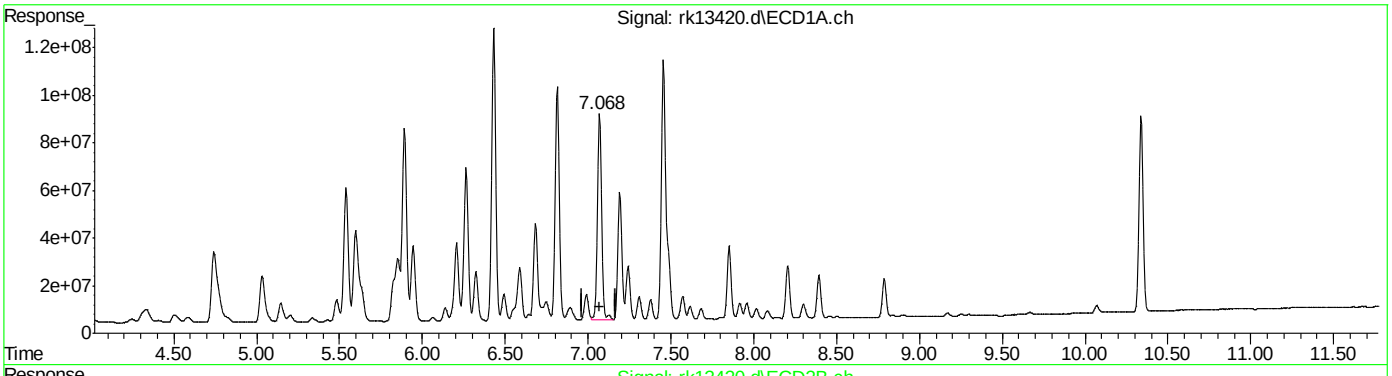
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:07:30 2022

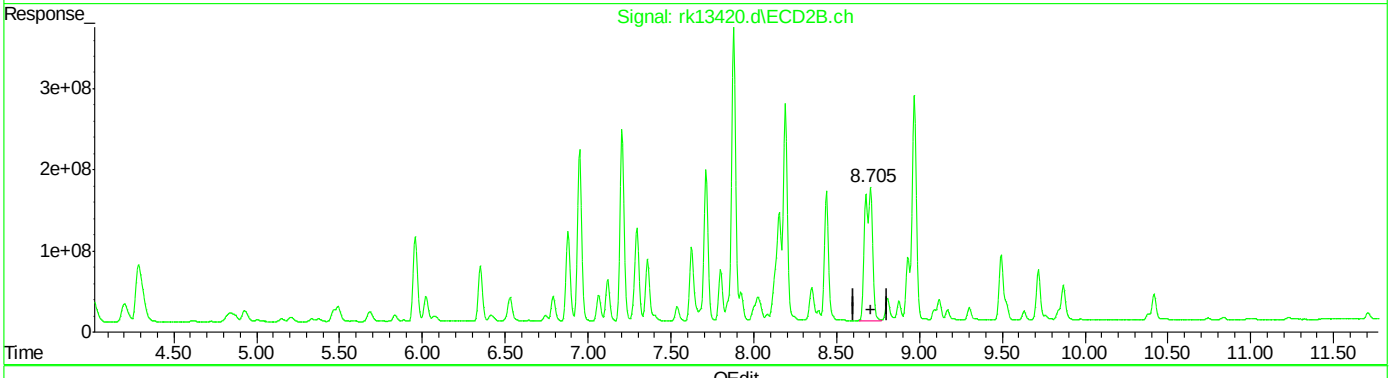
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13420.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:14 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:06:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(29) AR1254-F
7.069min 1084.614 PPB
response 1538017031

(29) AR1254-F #2
8.705min 1081.994 PPB m
response 5249143121

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:07:42 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13421.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:30 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:08:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.939	3.616	1480.8E6	3984.0E6	43.034	42.091
	Spiked Amount 40.000			Recovery	=	107.58%	105.23%
51) S	Decachlor...	10.338	12.092	1336.5E6	3036.1E6	39.178	38.740
	Spiked Amount 40.000			Recovery	=	97.94%	96.85%
	Target Compounds						
7)	AR1232-A	3.335	4.288	802.3E6	1768.1E6	984.490	1000.277
8)	AR1232-B	3.759	4.851	558.1E6	1660.2E6	998.515	1058.675
9)	AR1232-C	4.332	5.491	1239.6E6	3461.7E6	1009.064	1023.113
10)	AR1232-D	4.505	5.683	465.0E6	1346.2E6	1020.229	1035.307
11)	AR1232-E	5.035	6.350	434.6E6	967.8E6	1013.456	1020.302
41)	AR1262-A	7.068	8.439	1739.5E6	4035.2E6	990.266	992.697
42)	AR1262-B	7.617	9.091	2560.8E6	5804.2E6	994.445	993.327
43)	AR1262-C	7.957	9.526	1991.2E6	5171.8E6	994.324	996.502
44)	AR1262-D	8.393	9.870	4854.7E6	11125.3E6	993.813	994.485
45)	AR1262-E	8.840	10.391	5577.4E6	12492.9E6	986.698m	975.866m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

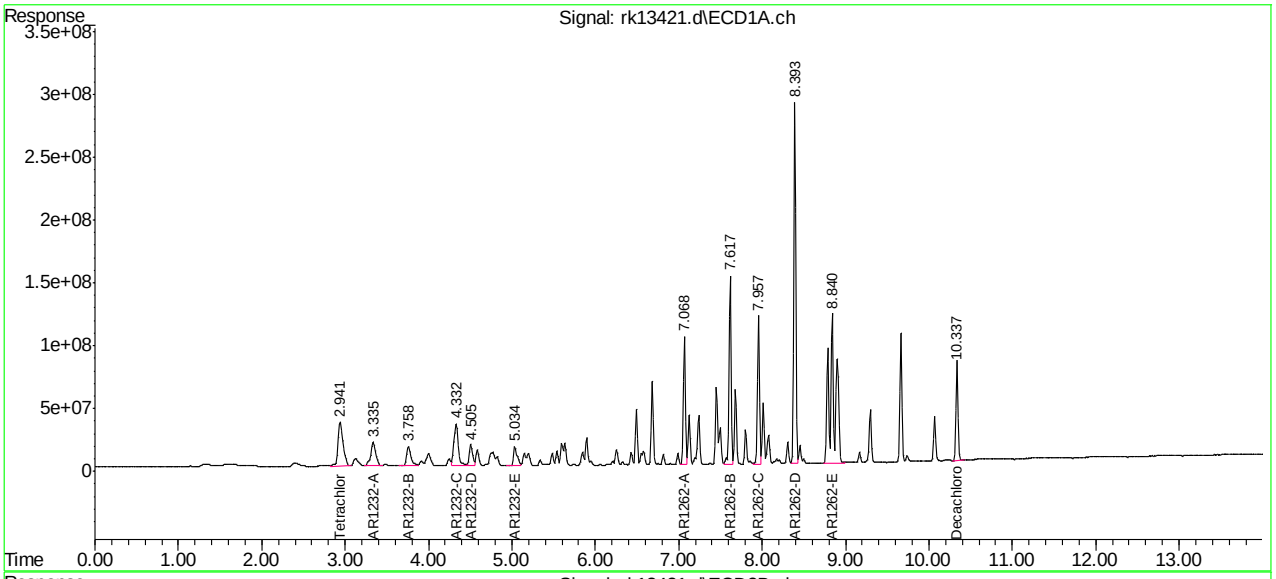
9.6.44
9

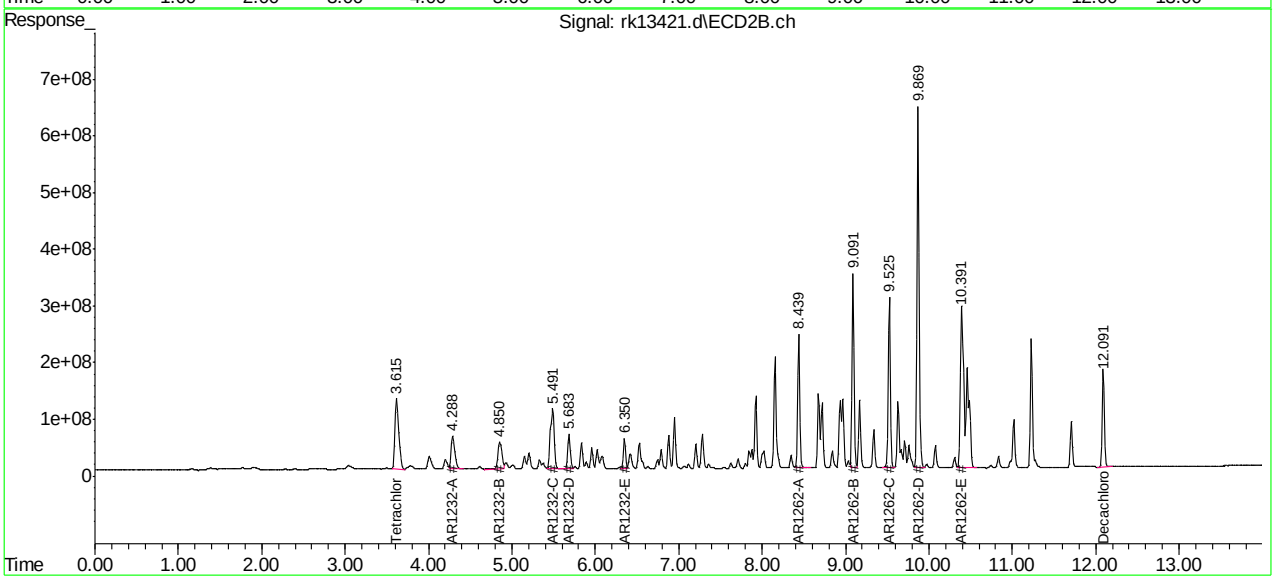
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13421.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:30 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:08:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-ICV339	**Method:**	SW846 8082A
Lab FileID:	RK13421.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 21:30	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

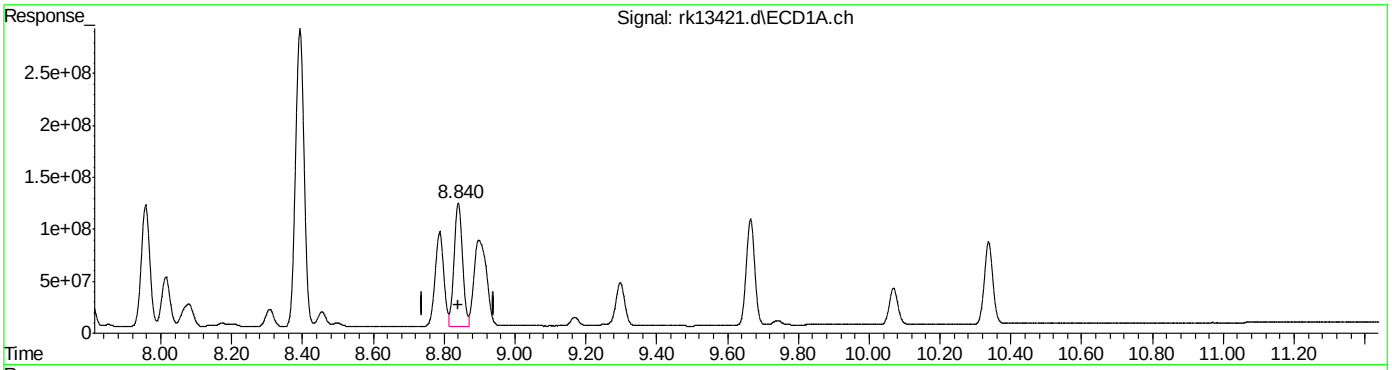
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1262-E		1	8.84	Split peak
AR1262-E		2	10.39	Split peak

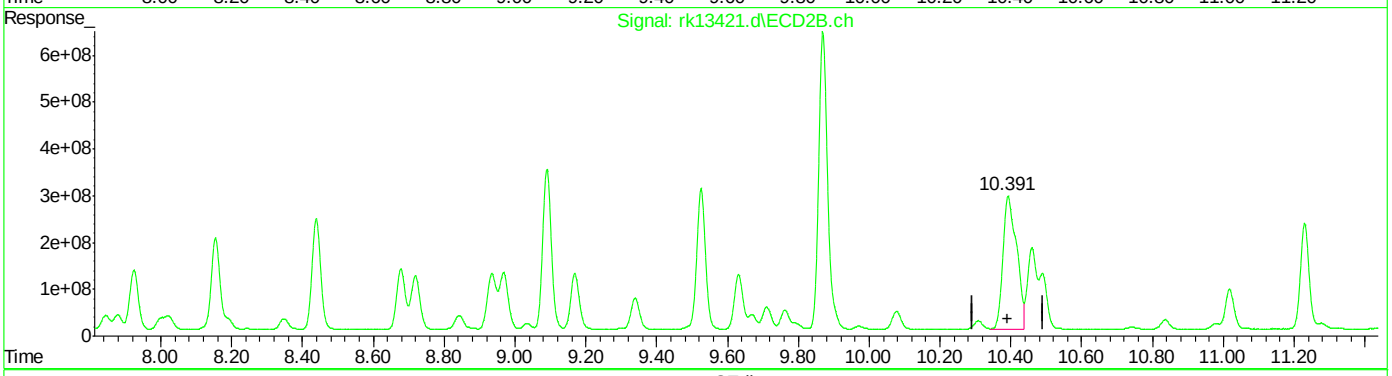
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13421.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:30 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:08:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(45) AR1262-E
8.840min 350.025 PPB
response 1978551718

(45) AR1262-E #2
10.393min 592.568 PPB
response 7585954551

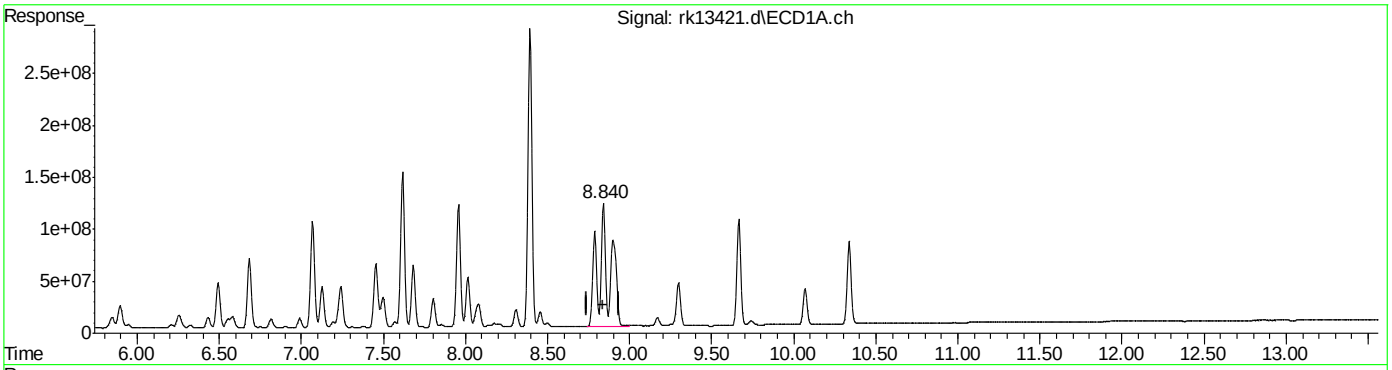
(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:08:25 2022

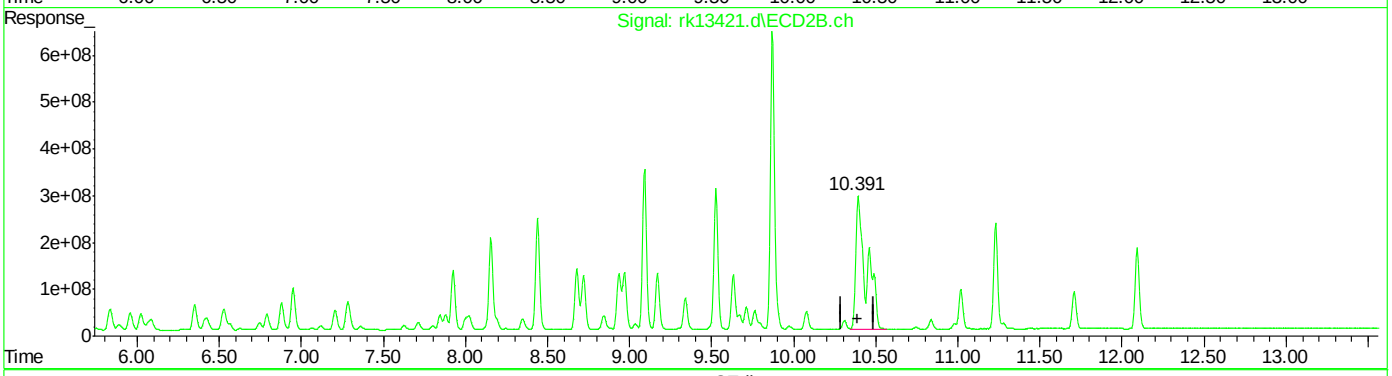
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13421.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:30 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:08:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(45) AR1262-E
8.840min 986.698 PPB m
response 5577416247

(45) AR1262-E #2
10.391min 975.866 PPB m
response 12492866837

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:08:35 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13422.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:47 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 95 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:09:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.939	3.616	1530.3E6	4182.9E6	44.473	44.192
Spiked Amount	40.000			Recovery	=	111.18%	110.48%
51) S	Decachlor...	10.337	12.091	3850.7E6	8855.3E6	112.879	112.990
Spiked Amount	40.000			Recovery	=	282.20%	282.47%
	Target Compounds						
12)	AR1242-A	3.758	4.849	1057.9E6	2917.3E6	1163.670	1153.398
13)	AR1242-B	4.332	5.491	2486.9E6	6613.8E6	1159.116	1148.683
14)	AR1242-C	4.505	5.683	918.0E6	2520.3E6	1155.049	1152.069
15)	AR1242-D	5.034	6.349	929.5E6	2045.5E6	1128.262	1133.864
16)	AR1242-E	5.634	6.950	745.1E6	2489.3E6	1097.093	1099.603
46)	AR1268-A	8.840	10.392	5867.3E6	12887.1E6	1029.733	1022.512
47)	AR1268-B	8.895	10.460	5192.8E6	12657.0E6	1030.326	1017.932
48)	AR1268-C	9.168	10.835	4606.0E6	10709.3E6	1040.401	1034.409
49)	AR1268-D	9.665	11.229	1907.3E6	4367.5E6	1035.784	1000.881
50)	AR1268-E	10.069	11.709	12857.0E6	30182.9E6	1034.293	1011.633

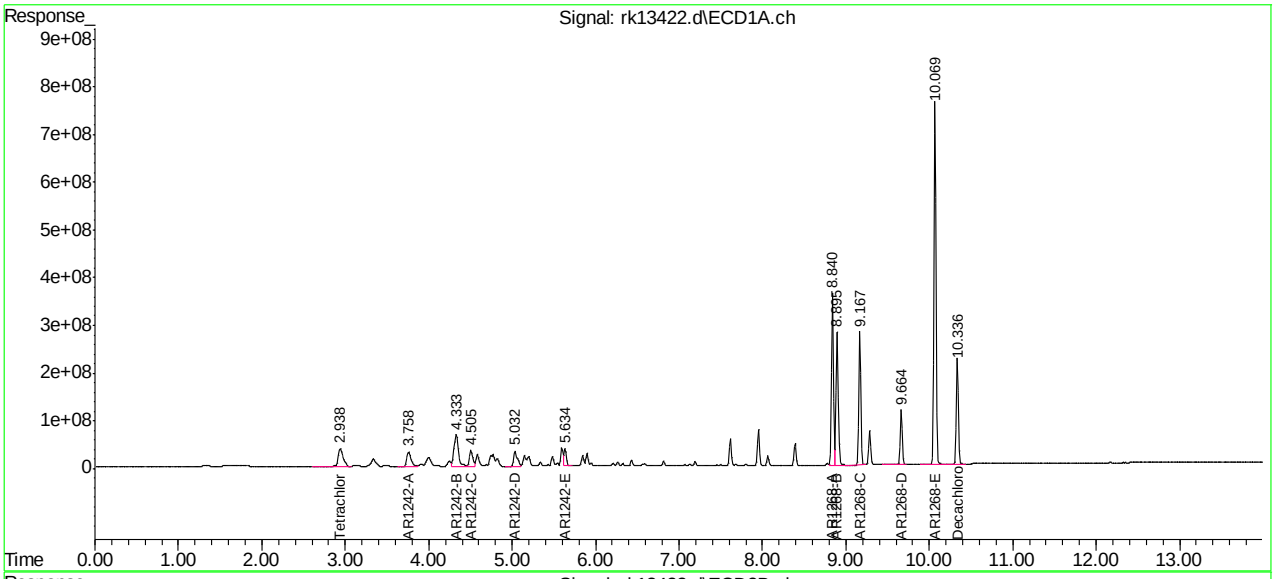
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

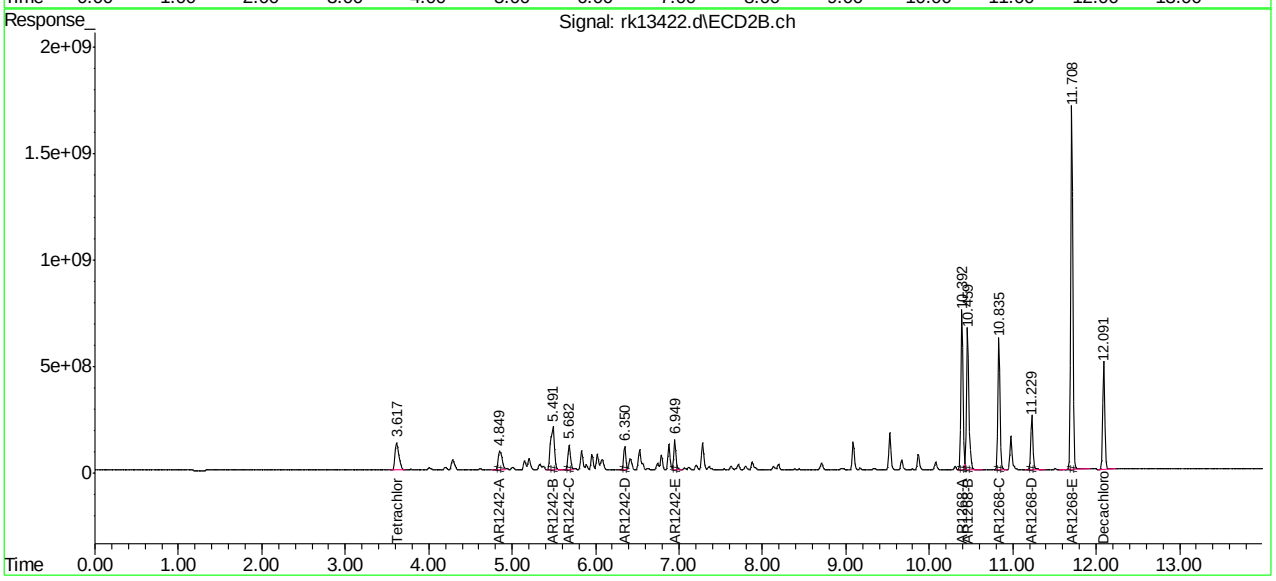
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13422.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 9:47 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 95 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:09:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/27/22 18:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13423.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 10:03 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:10:00 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.939	3.615	1433.4E6	4067.0E6	41.656	42.967
	Spiked Amount 40.000			Recovery	=	104.14%	107.42%
51) S	Decachlor...	10.337	12.091	1306.1E6	3088.1E6	38.288	39.403
	Spiked Amount 40.000			Recovery	=	95.72%	98.51%
	Target Compounds						
17)	AR1248-A	3.756	4.851	451.9E6	1326.8E6	1061.010	1054.331
18)	AR1248-B	4.329	5.488	1326.8E6	3849.2E6	1054.924	1052.528m
19)	AR1248-C	4.745	5.957	1480.6E6	2343.7E6	1057.437	1055.148
20)	AR1248-D	5.034	6.350	1358.0E6	3068.0E6	1050.977	1057.193
21)	AR1248-E	5.147	6.528	763.6E6	3428.6E6	1060.294	1050.727
22)	AR1248-F	5.634	6.950	1157.5E6	4239.9E6	1059.509	1065.522
23)	AR1248-G	5.897	7.284	1000.5E6	4134.3E6	1033.659	1071.617

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

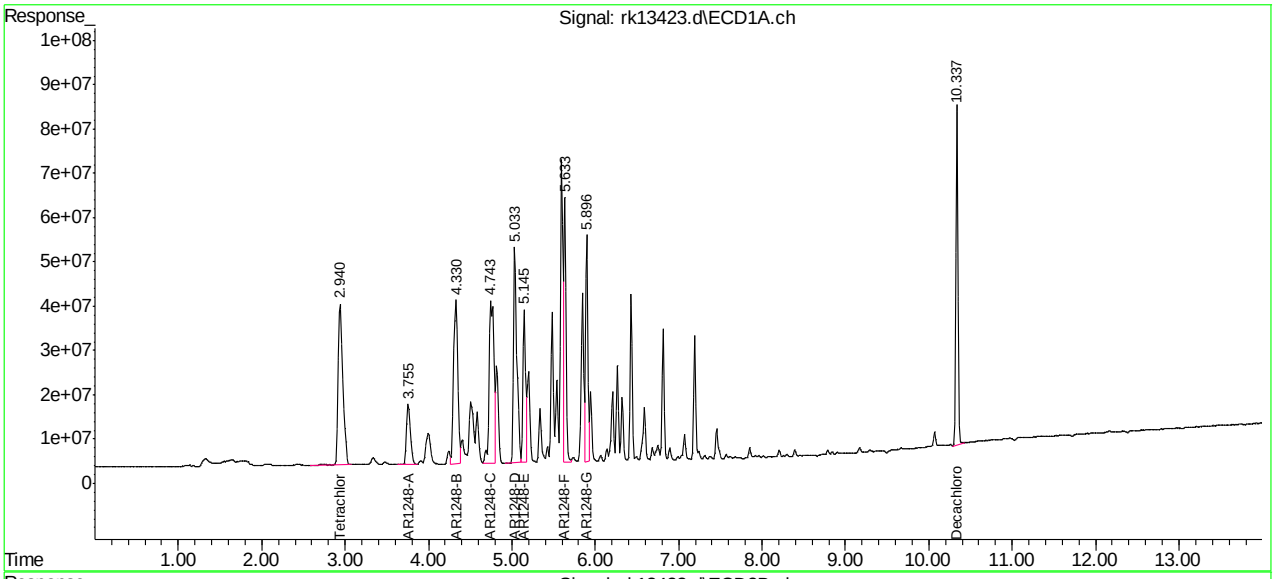
9.6.46
9

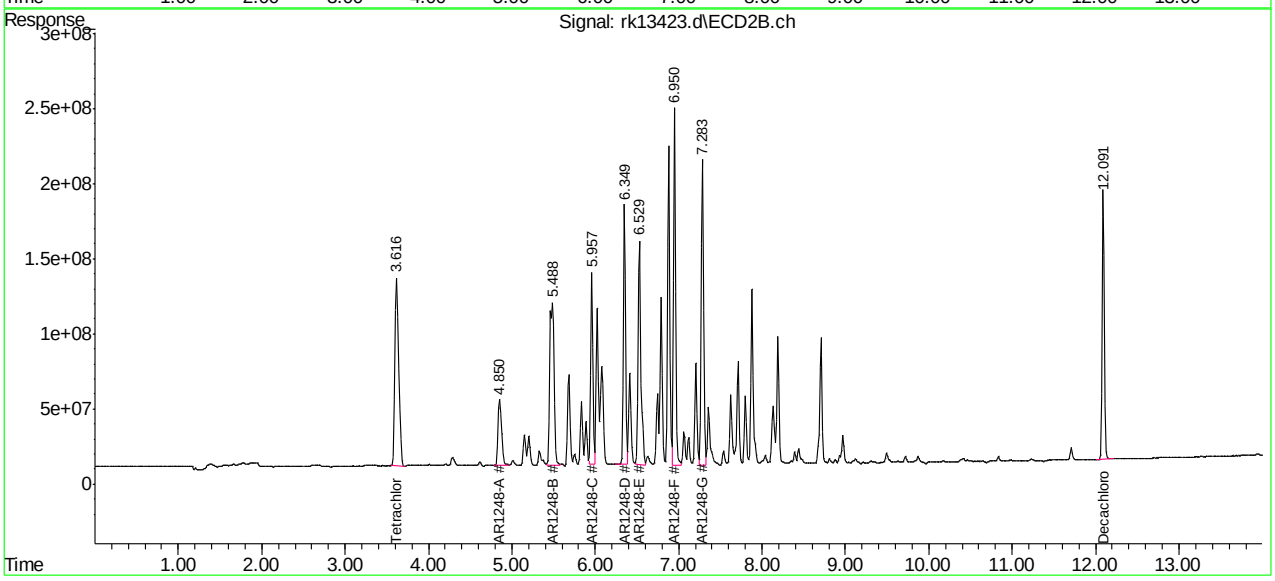
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13423.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 10:03 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:10:00 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK339-ICV339	**Method:**	SW846 8082A
Lab FileID:	RK13423.D	**Analyst approved:**	07/26/22 23:13 Rebecca Krug
Injection Time:	07/25/22 22:03	**Supervisor approved:**	07/27/22 18:24 Gwendolyn Burns

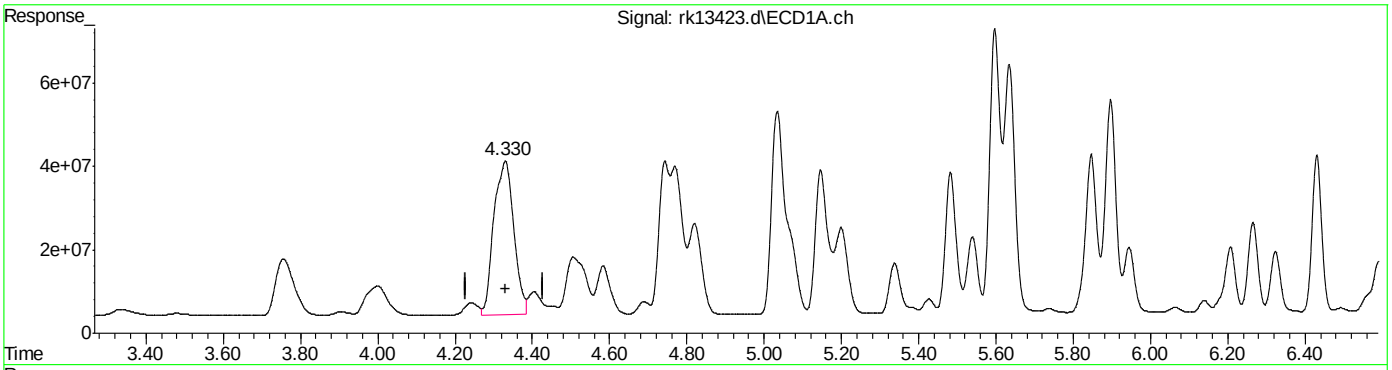
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1248-B		2	5.49	Split peak

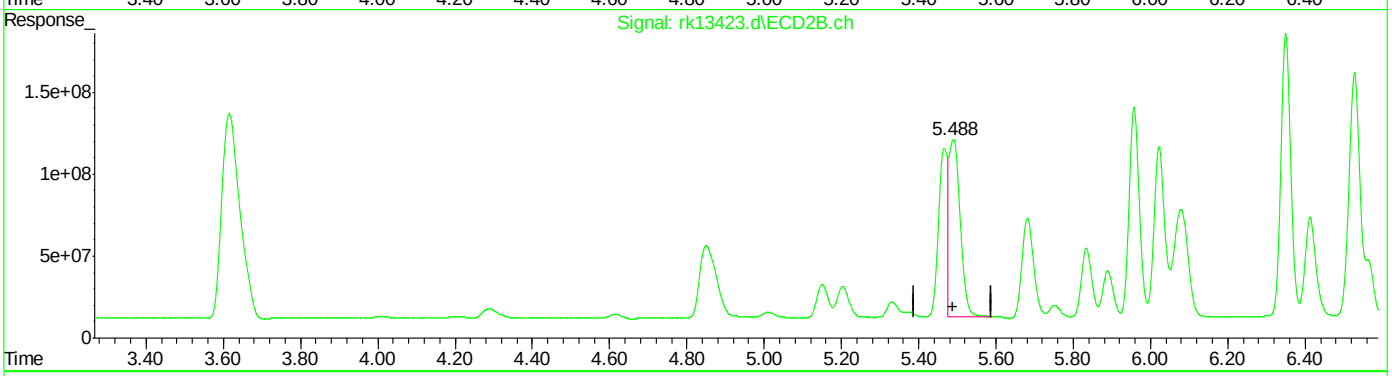
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13423.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 10:03 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:09:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(18) AR1248-B
4.329min 1054.924 PPB
response 1326752362

(18) AR1248-B #2
5.490min 599.057 PPB
response 2190786052

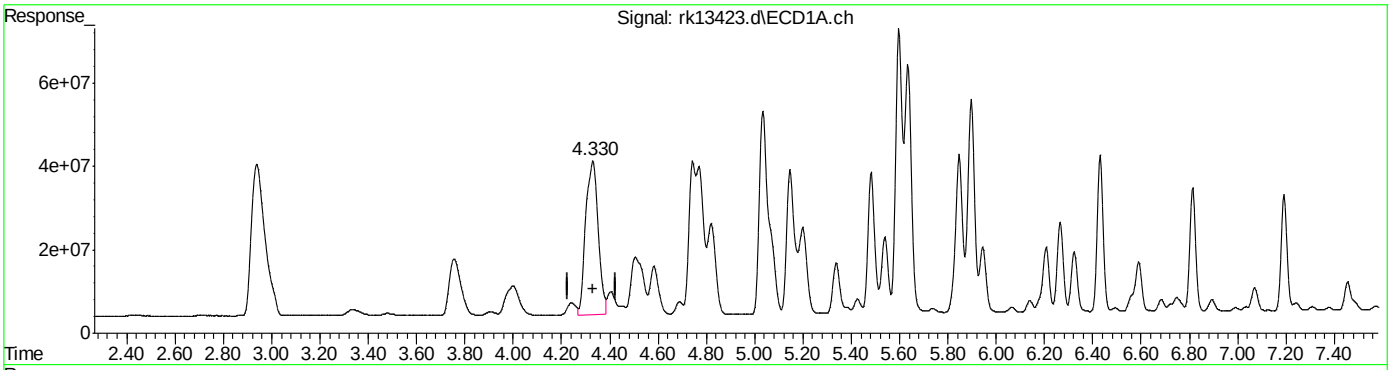
(+) = Expected Retention Time

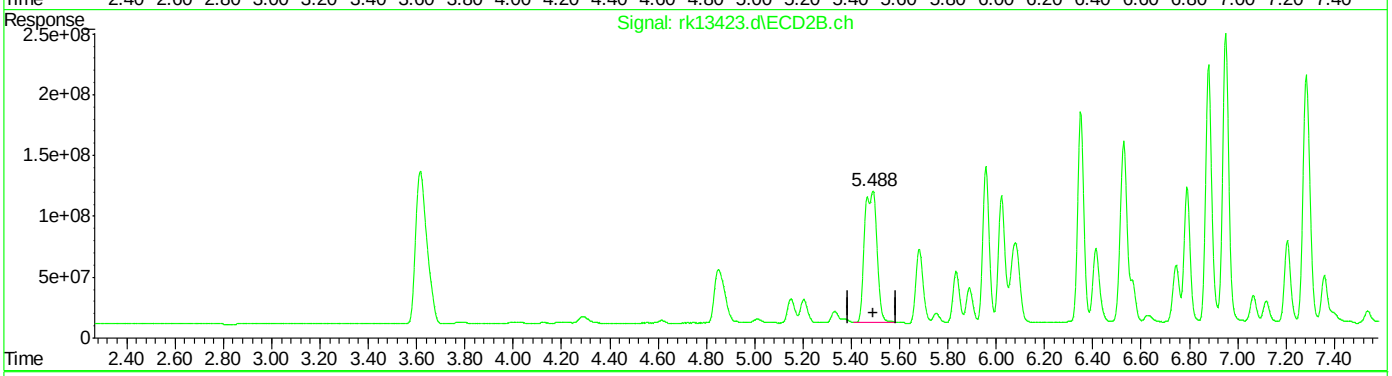
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\rk339\
Data File : rk13423.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jul 2022 10:03 pm
Operator : chorngli
Sample : icv339-1000
Misc : op40458,grk339,16.4,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 26 23:09:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(18) AR1248-B
4.329min 1054.924 PPB
response 1326752362

(18) AR1248-B #2
5.488min 1052.528 PPB m
response 3849156678

(+) = Expected Retention Time
RKPCB339.M Tue Jul 26 23:09:46 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/13/22 09:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 1:20 am
Operator : chorngli
Sample : cc339-1000
Misc : op41128,grk355,250,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:24:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.942	3.619	1442.8E6	4213.4E6	41.929m	44.514
Spiked Amount	40.000			Recovery	=	104.82%	111.29%
51) S	Decachlor...	10.341	12.085	1322.7E6	3381.8E6	38.775	43.150
Spiked Amount	40.000			Recovery	=	96.94%	107.87%
	Target Compounds						
31)	AR1016-A	3.338	4.288	657.6E6	1580.2E6	1017.696	1116.248
32)	AR1016-B	3.760	4.847	1168.1E6	3641.8E6	1031.395	1135.990m
33)	AR1016-C	4.335	5.489	2831.6E6	7929.4E6	1050.442	1113.601m
34)	AR1016-D	4.506	5.681	1042.8E6	3070.8E6	1044.235	1128.936
35)	AR1016-E	5.036	6.346	1056.9E6	2504.4E6	1037.307	1130.032
36)	AR1260-A	7.071	8.434	2256.4E6	5402.6E6	995.068	1147.861
37)	AR1260-B	7.618	9.084	1683.5E6	4247.1E6	977.677	1120.456
38)	AR1260-C	7.959	9.519	1490.3E6	4529.1E6	969.714	1098.363
39)	AR1260-D	8.397	9.865	3902.0E6	10347.2E6	999.902	1169.868
40)	AR1260-E	8.792	10.410	4030.0E6	10248.5E6	979.341m	1124.450m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.47

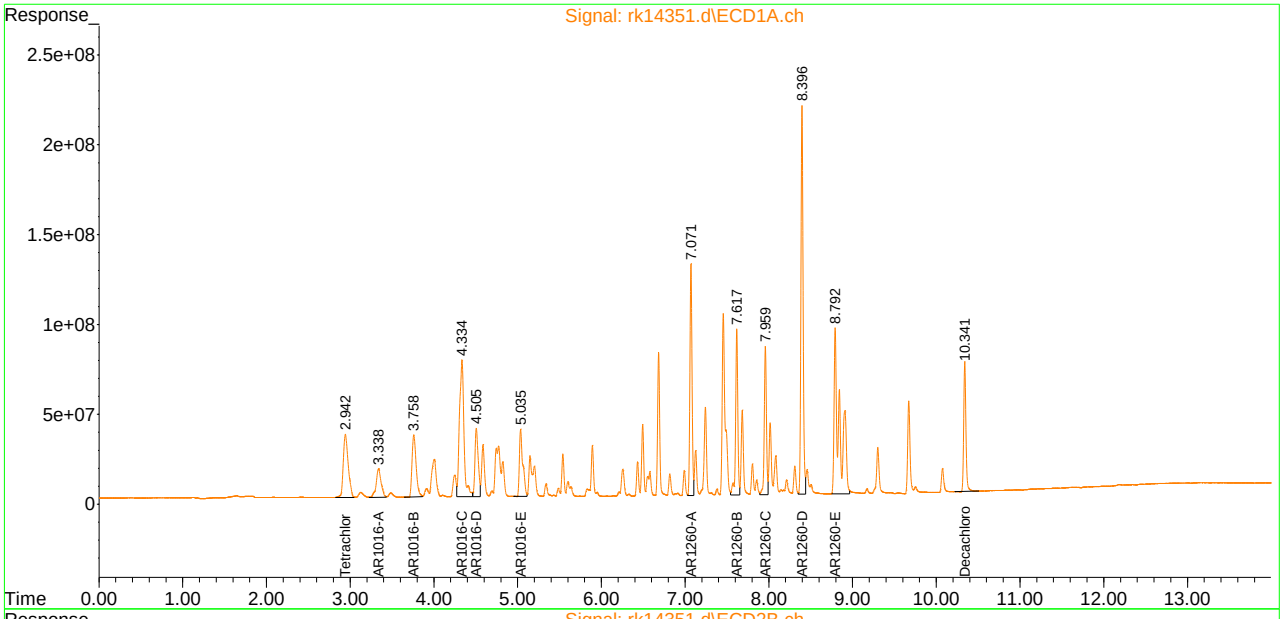
9

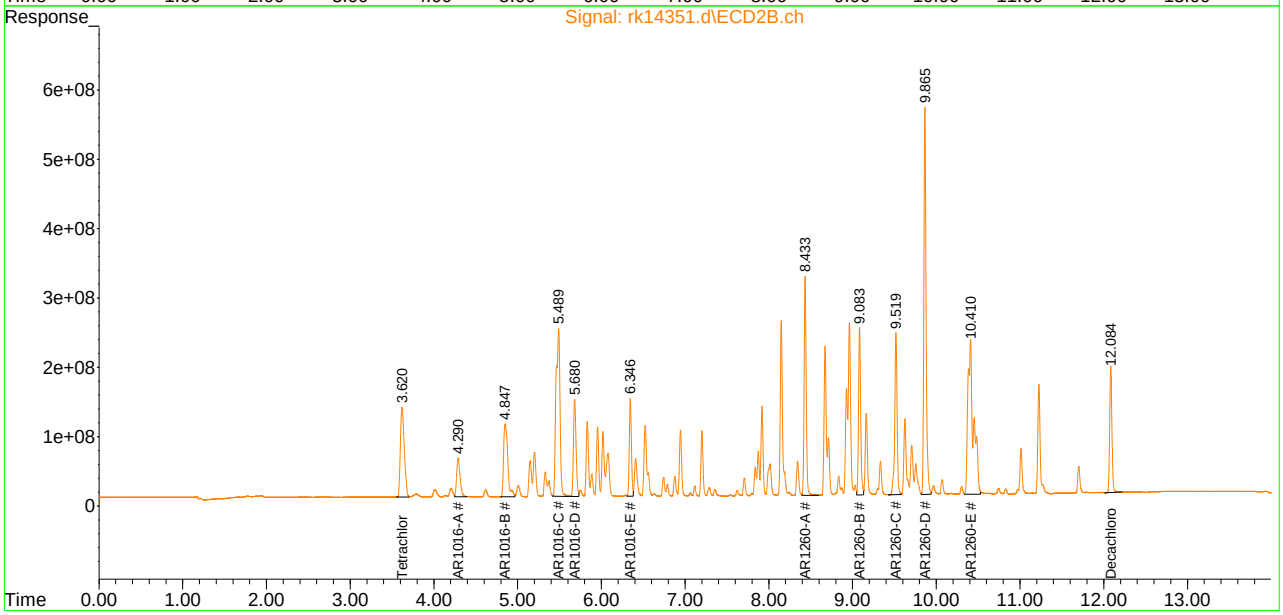
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 1:20 am
Operator : chorngli
Sample : cc339-1000
Misc : op41128,grk355,250,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:24:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





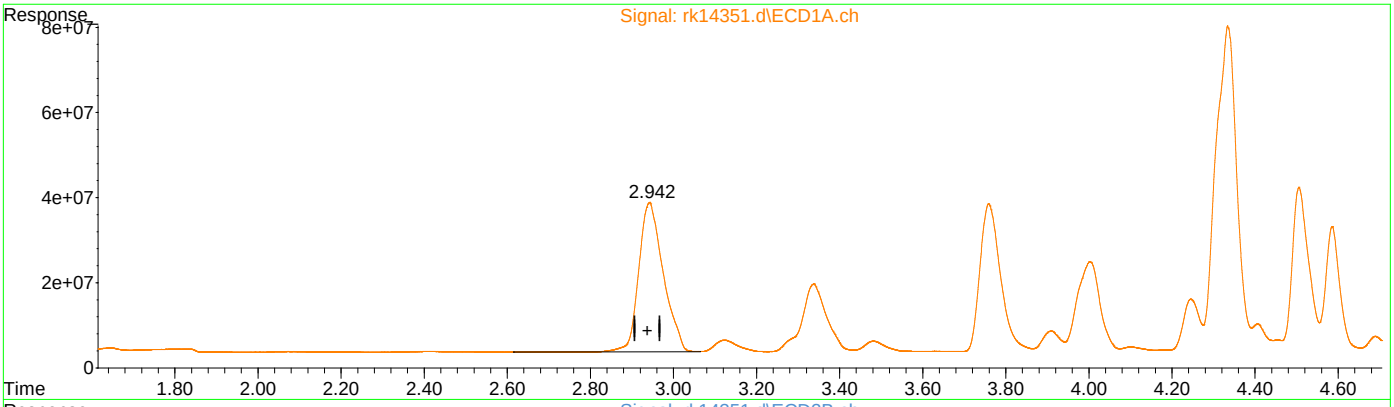
Manual Integration Approval Summary

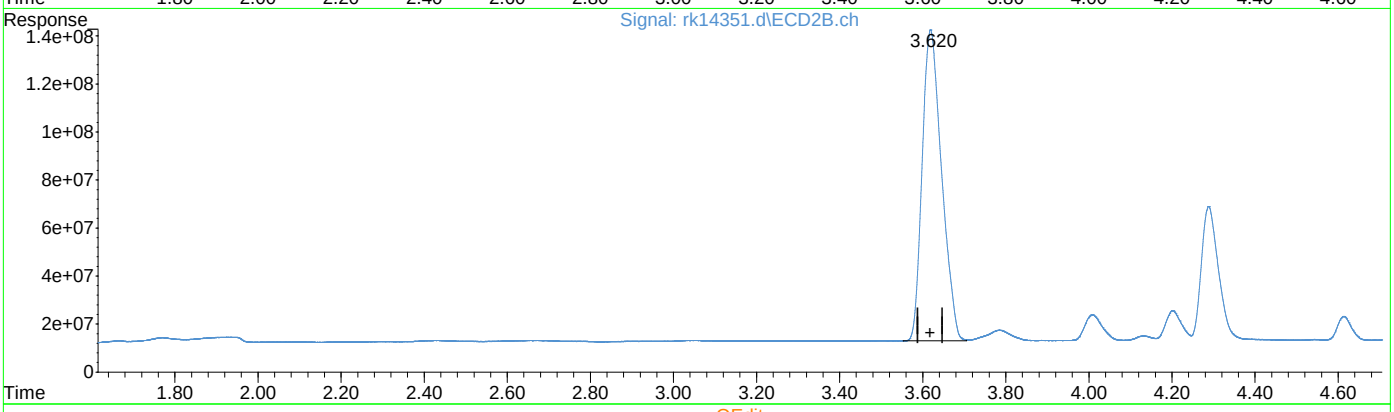
Sample Number:	GRK355-CC339	**Method:**	SW846 8082A
Lab FileID:	RK14351.D	**Analyst approved:**	08/13/22 07:04 Gwendolyn Burns
Injection Time:	08/12/22 01:20	**Supervisor approved:**	08/13/22 09:34 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.94	Poorly defined baseline
AR1016-B		2	4.85	Poorly defined baseline
AR1016-C		2	5.49	Poorly defined baseline
AR1260-E		1	8.79	Poorly defined baseline
AR1260-E		2	10.41	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   1:20 am
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41128,grk355,250,,,2,1
ALS Vial  : 7   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(1) Tetrachloro-m-xylene (S)

2.942min 41.903 ppb

response 1441866086

(1) Tetrachloro-m-xylene #2 (S)

3.619min 44.514 ppb

response 4213414809

(+) = Expected Retention Time

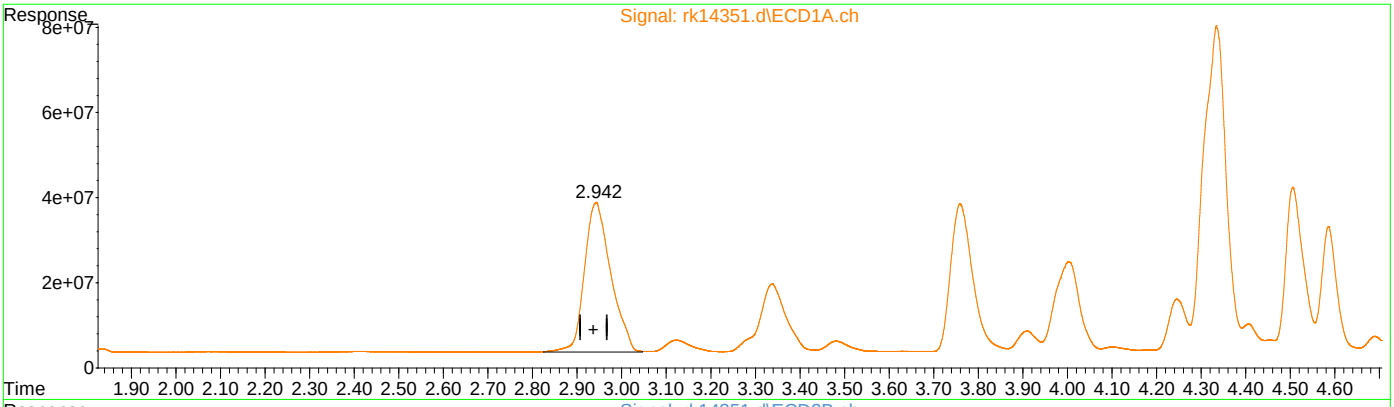
rkpcb339.m Fri Aug 12 07:22:54 2022

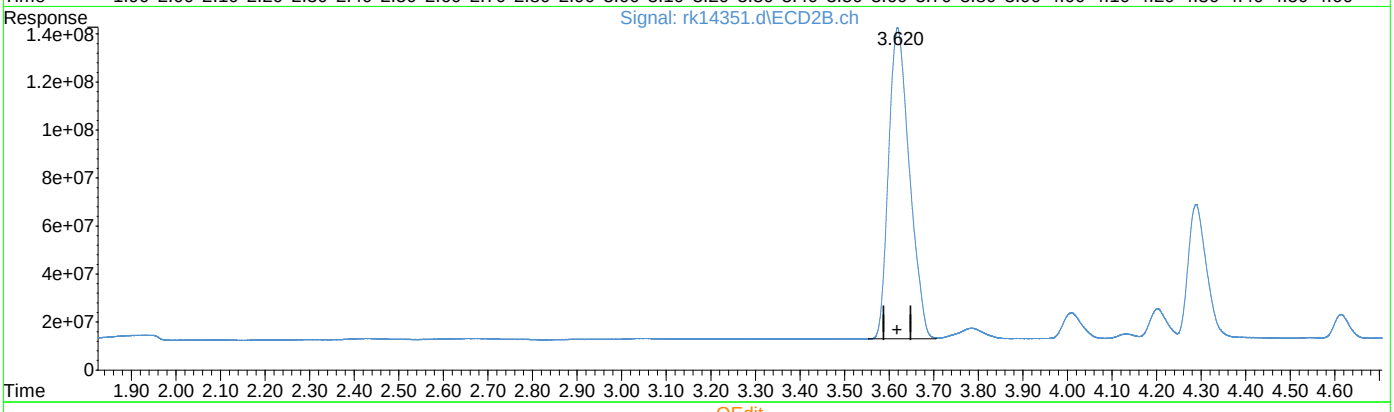
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 1:20 am
Operator : chorngli
Sample : cc339-1000
Misc : op41128,grk355,250,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(1) Tetrachloro-m-xylene (S)

2.942min 41.929 ppb m

response 1442750432

(1) Tetrachloro-m-xylene #2 (S)

3.619min 44.514 ppb

response 4213414809

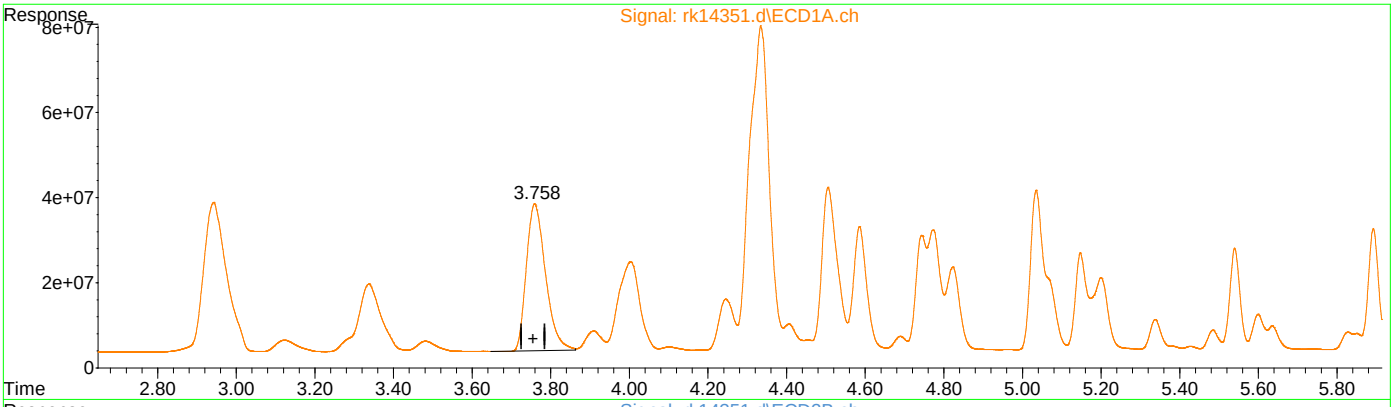
(+) = Expected Retention Time
rkpcb339.m Fri Aug 12 07:23:03 2022

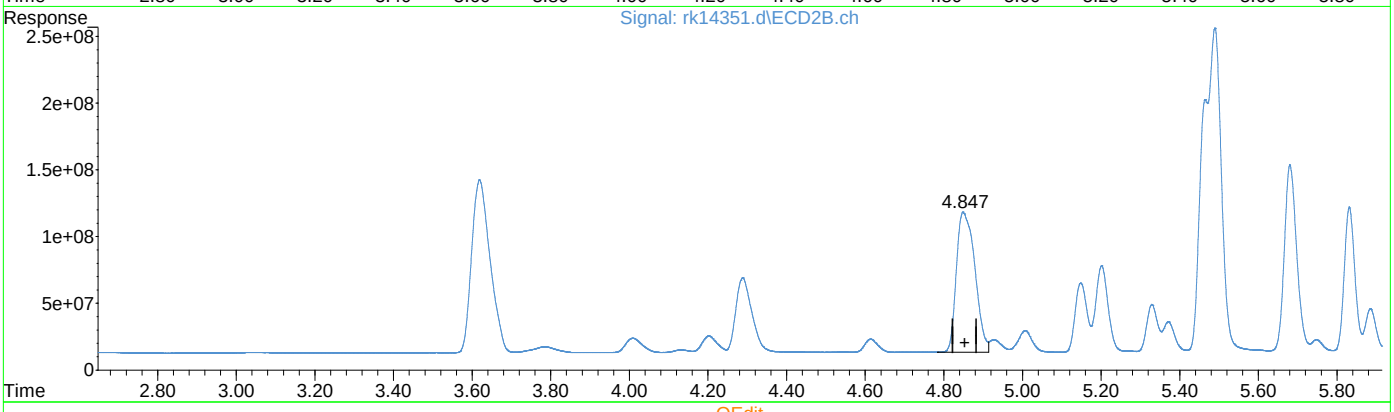
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 1:20 am
Operator : chorngli
Sample : cc339-1000
Misc : op41128,grk355,250,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(32) AR1016-B

3.760min 1031.395 PPB

response 1168062794

(32) AR1016-B #2

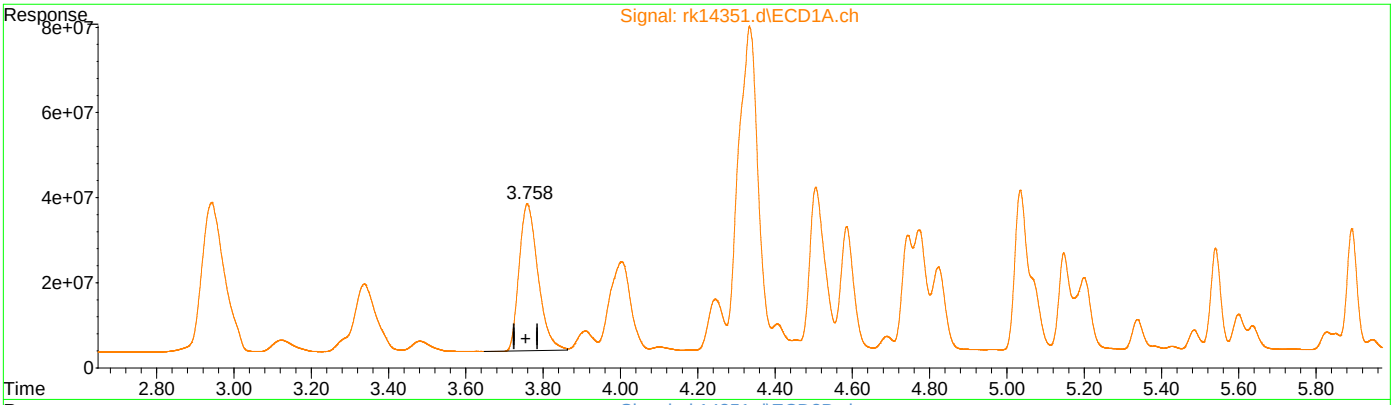
4.849min 1072.290 PPB

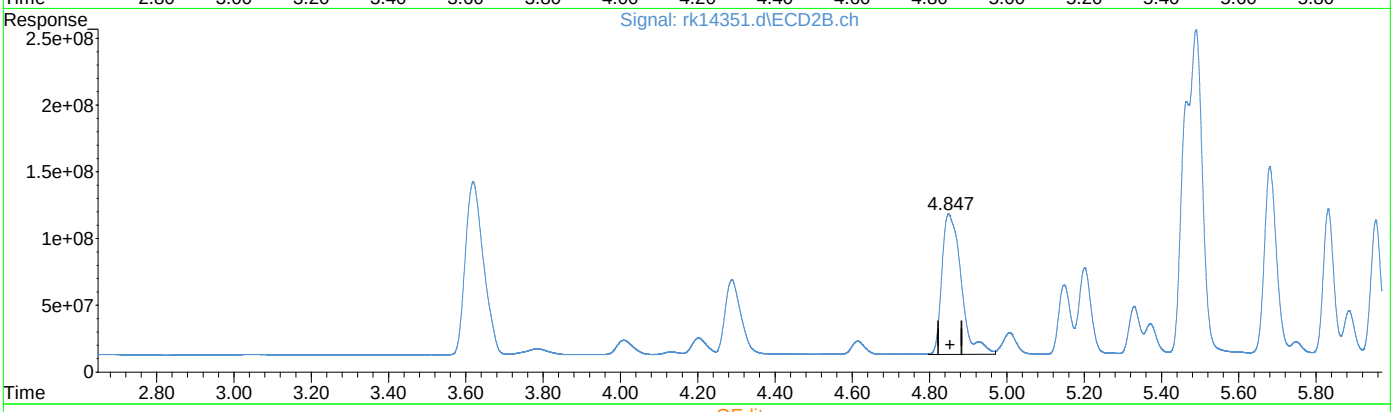
response 3437634861

(+) = Expected Retention Time
rkpcb339.m Fri Aug 12 07:23:28 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   1:20 am
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41128,grk355,250,,,2,1
ALS Vial  : 7   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(32) AR1016-B

3.760min 1031.395 PPB

response 1168062794

(32) AR1016-B #2

4.847min 1135.990 PPB m

response 3641849398

(+) = Expected Retention Time

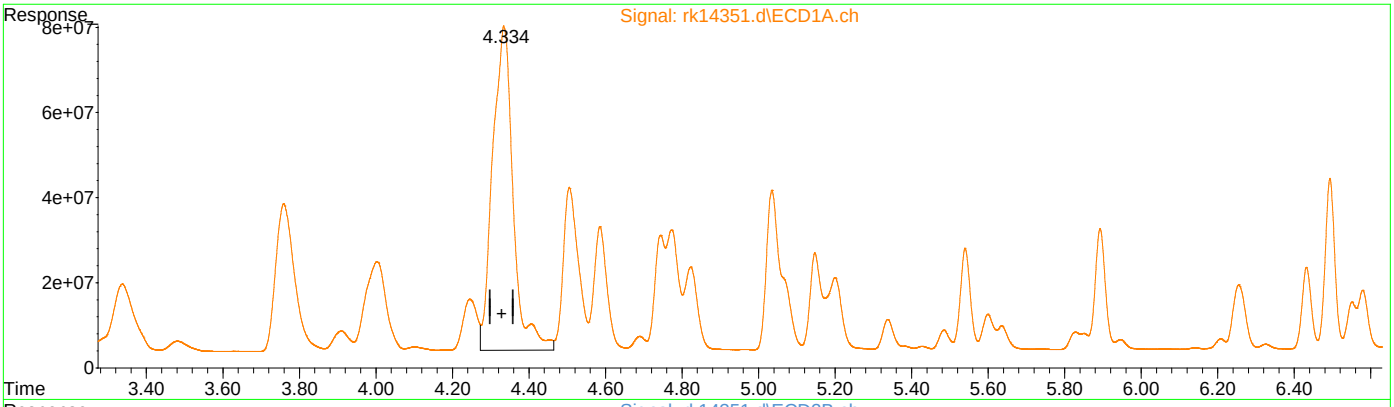
rkpcb339.m Fri Aug 12 07:23:37 2022

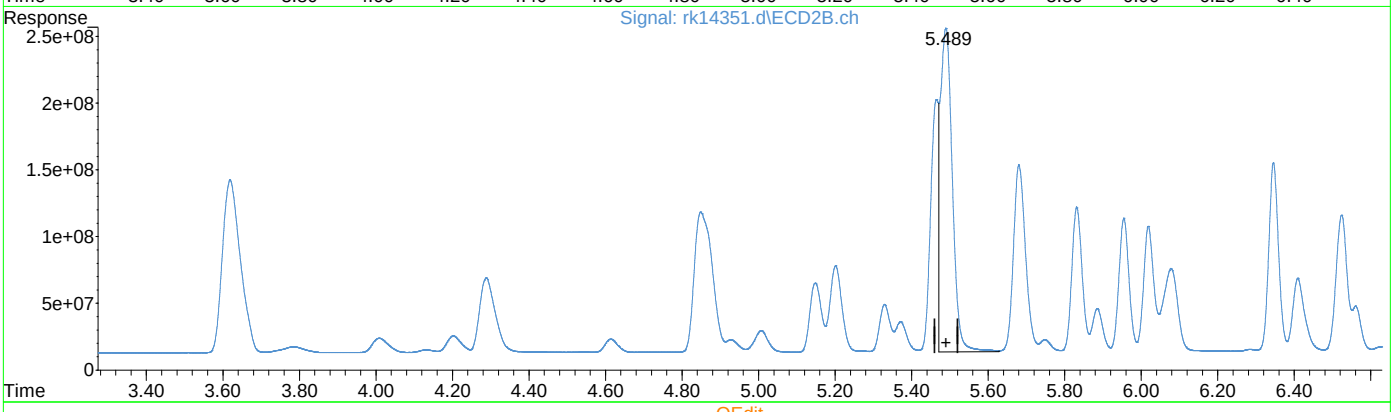
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 1:20 am
Operator : chorngli
Sample : cc339-1000
Misc : op41128,grk355,250,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C

4.335min 1050.442 PPB

response 2831579229

(33) AR1016-C #2

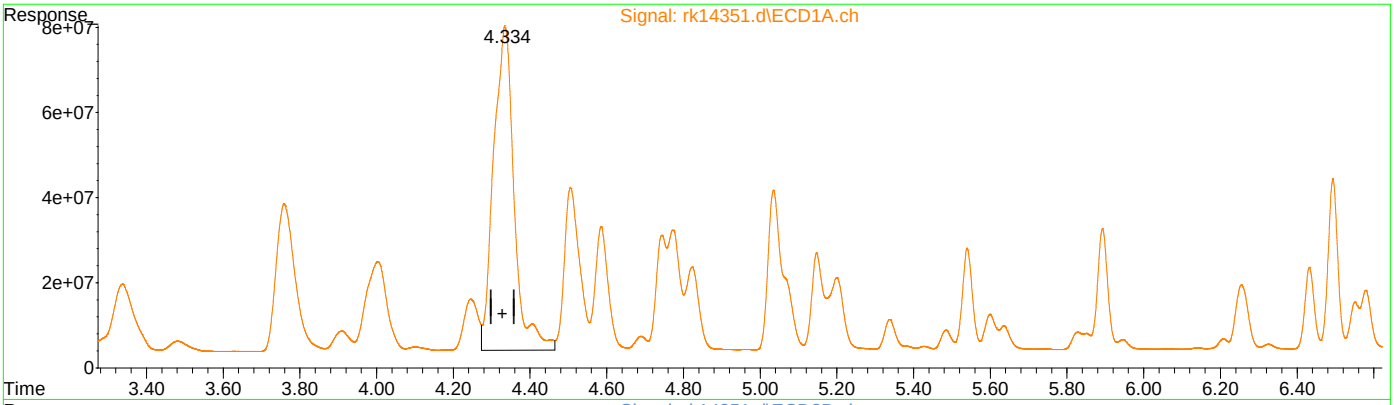
5.490min 752.426 PPB

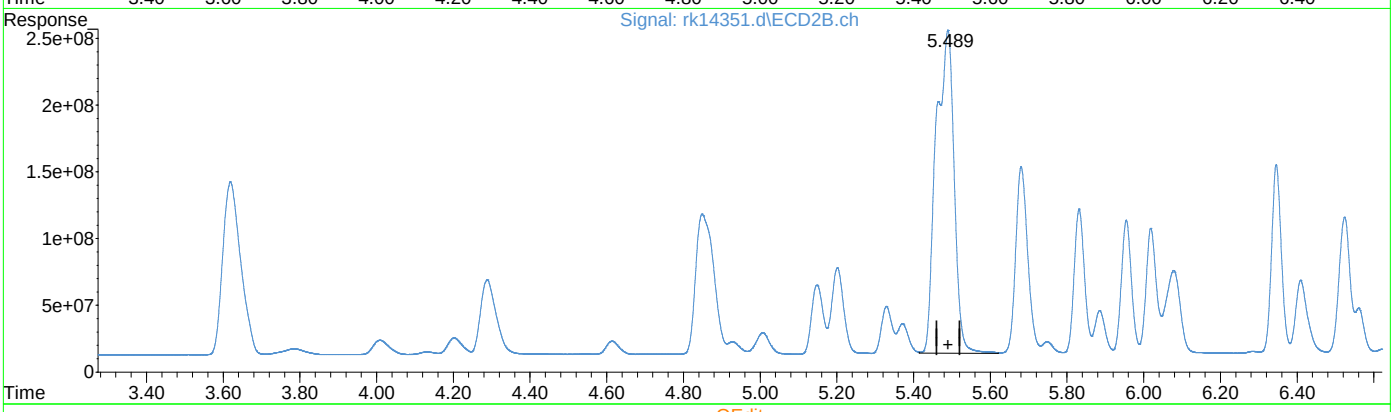
response 5357666674

(+) = Expected Retention Time
rkpcb339.m Fri Aug 12 07:23:41 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   1:20 am
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41128,grk355,250,,,2,1
ALS Vial  : 7   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(33) AR1016-C

4.335min 1050.442 PPB

response 2831579229

(33) AR1016-C #2

5.489min 1113.601 PPB m

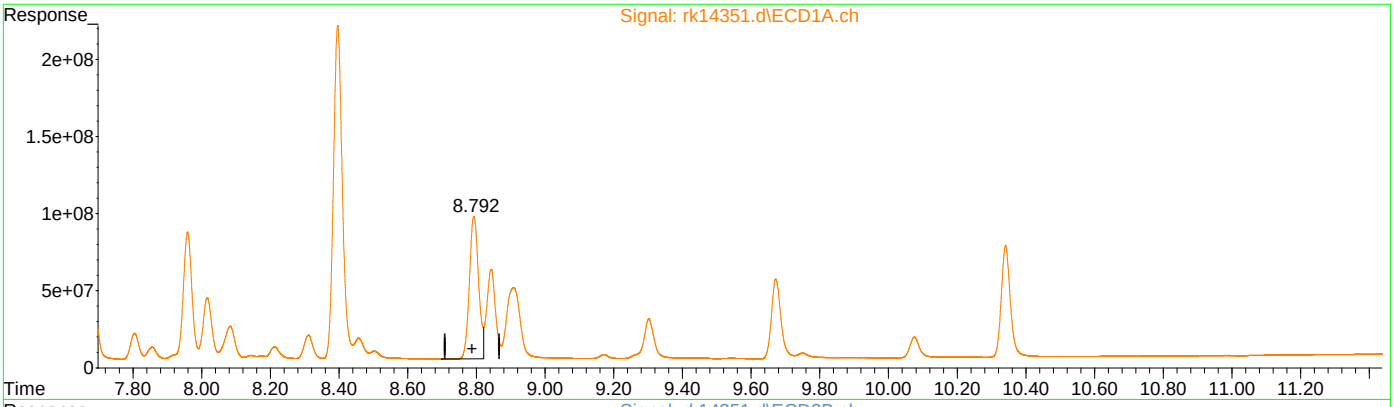
response 7929422916

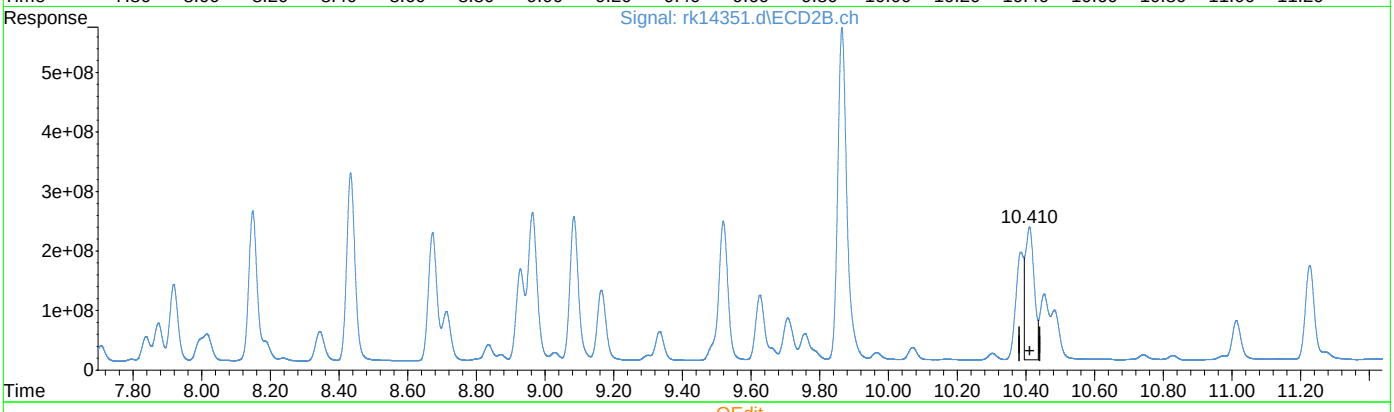
(+) = Expected Retention Time

rkpcb339.m Fri Aug 12 07:23:48 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   1:20 am
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41128,grk355,250,,,2,1
ALS Vial  : 7   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(40) AR1260-E

8.793min 418.868 PPB

response 1723657739

(40) AR1260-E #2

10.411min 439.096 PPB

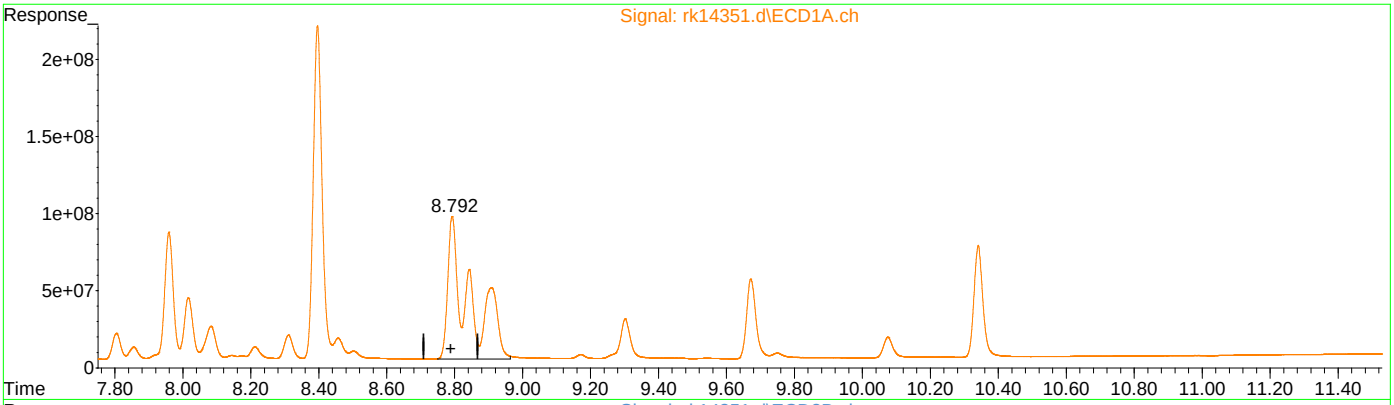
response 4002021667

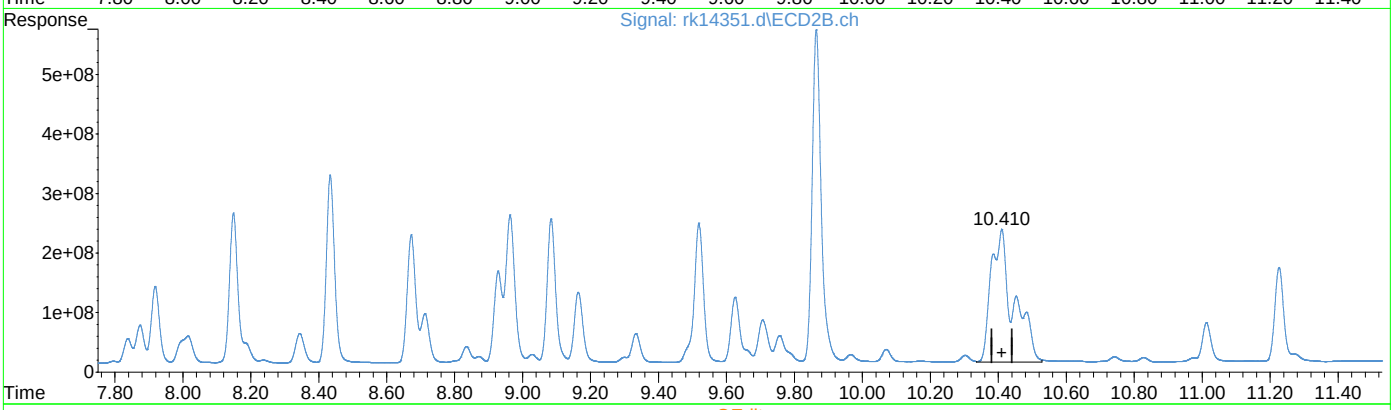
(+) = Expected Retention Time

rkpcb339.m Fri Aug 12 07:24:01 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\syrap\rk355\
Data File : rk14351.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   1:20 am
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41128,grk355,250,,,2,1
ALS Vial  : 7   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 12 07:22:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\rkpcb339.m
Quant Title  :
QLast Update : Fri Aug 12 01:41:30 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(40) AR1260-E

8.792min 979.341 PPB m

response 4030021690

(40) AR1260-E #2

10.410min 1124.450 PPB m

response 10248486421

(+) = Expected Retention Time

rkpcb339.m Fri Aug 12 07:24:12 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/14/22 14:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 4:21 am
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:29:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:44 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.946	3.622	733.5E6	2153.0E6	21.317	22.746
Spiked Amount	40.000			Recovery	=	53.29%	56.87%
51) S	Decachlor...	10.341	12.084	455.4E6	1116.3E6	13.348	14.244m
Spiked Amount	40.000			Recovery	=	33.37%	35.61%
	Target Compounds						
31)	AR1016-A	3.340	4.290	353.2E6	854.7E6	546.623	603.755
32)	AR1016-B	3.762	4.851	618.1E6	1822.2E6	545.810	568.399
33)	AR1016-C	4.337	5.491	1450.5E6	4059.7E6	538.115	570.144m
34)	AR1016-D	4.508	5.681	559.4E6	1537.7E6	560.143	565.294
35)	AR1016-E	5.037	6.347	538.4E6	1208.9E6	528.439	545.467
36)	AR1260-A	7.071	8.434	1058.5E6	2164.7E6	466.822	459.925
37)	AR1260-B	7.619	9.085	751.4E6	1592.3E6	436.380	420.068
38)	AR1260-C	7.961	9.519	650.4E6	1622.3E6	423.236	393.434
39)	AR1260-D	8.397	9.865	1662.6E6	3680.3E6	426.037	416.103
40)	AR1260-E	8.792	10.411	1649.6E6	3432.8E6	400.873m	376.638m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.48

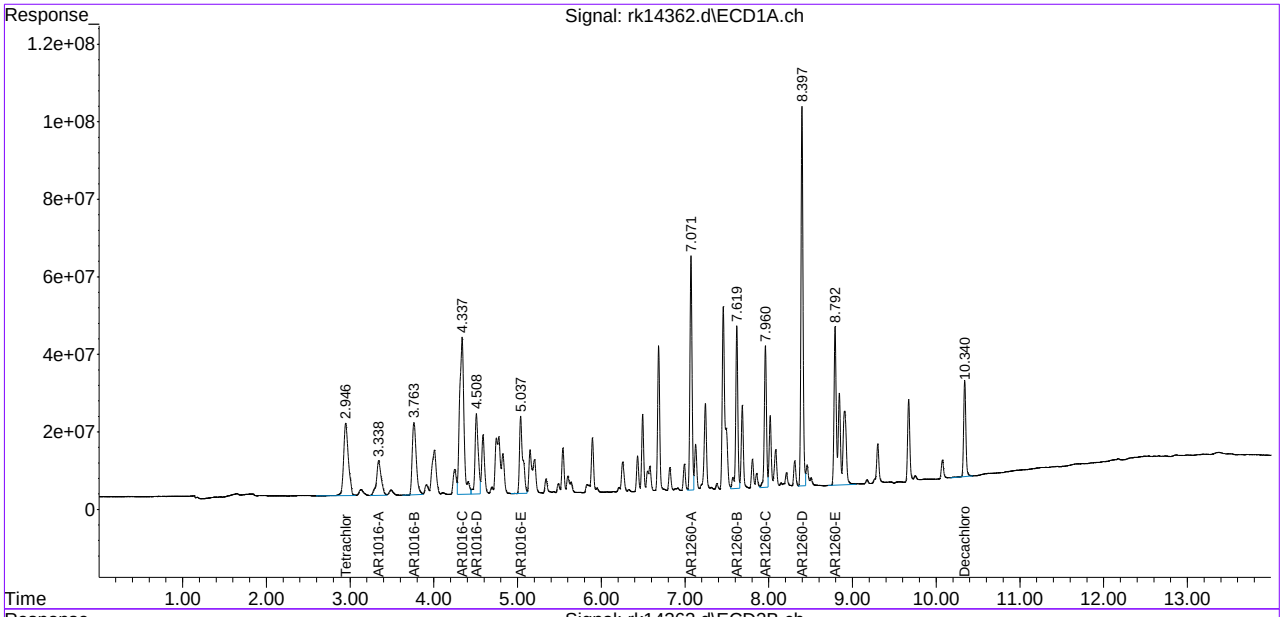
9

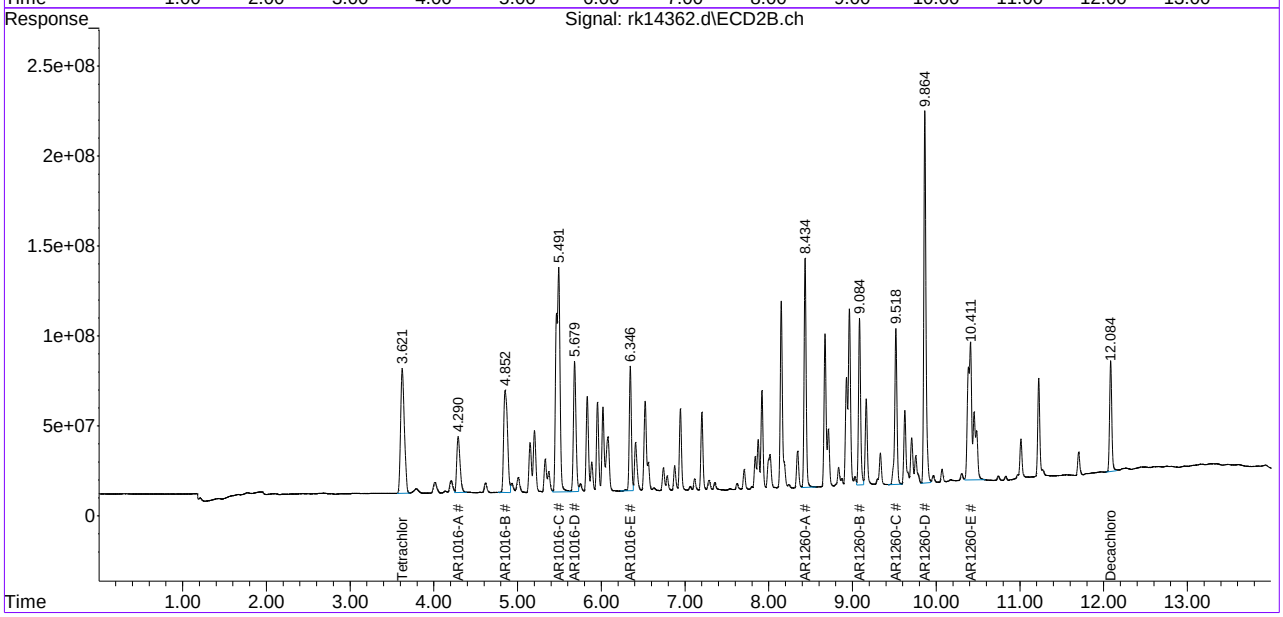
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 4:21 am
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:29:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Tue Jul 26 23:06:44 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





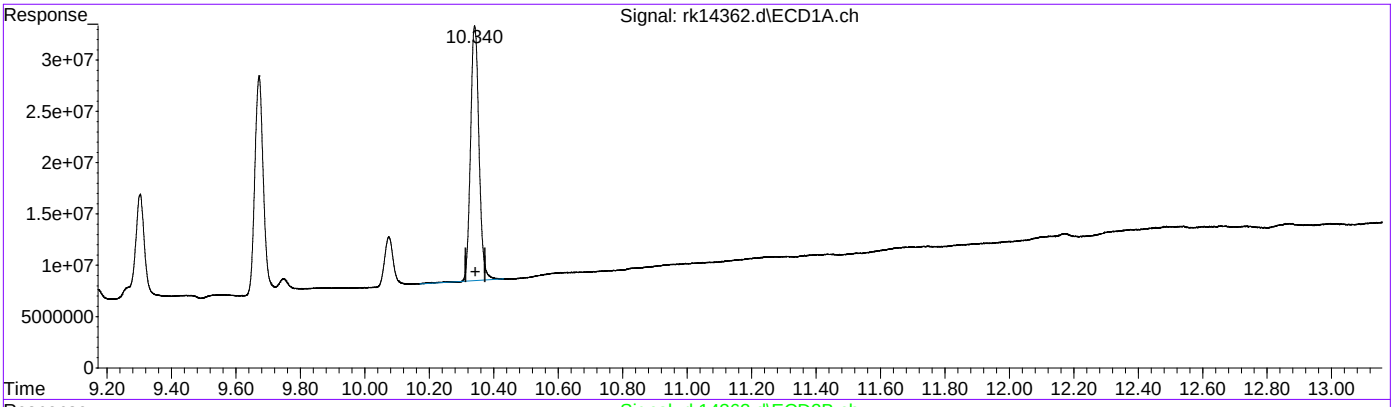
Manual Integration Approval Summary

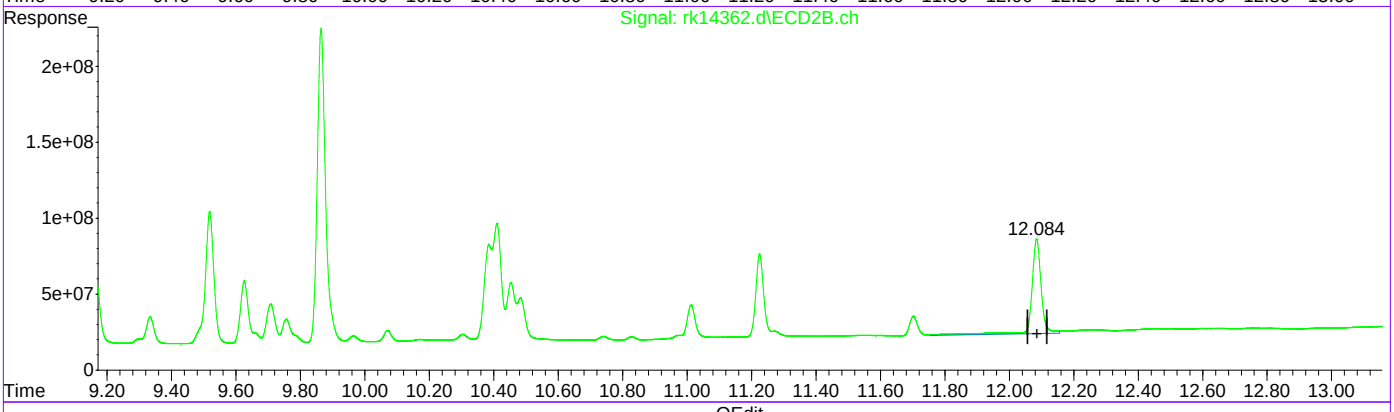
Sample Number:	GRK355-ECC339	**Method:**	SW846 8082A
Lab FileID:	RK14362.D	**Analyst approved:**	08/14/22 14:12 Gwendolyn Burns
Injection Time:	08/12/22 04:21	**Supervisor approved:**	08/14/22 14:13 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-C		2	5.49	Poorly defined baseline
AR1260-E		1	8.79	Poorly defined baseline
AR1260-E		2	10.41	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	12.08	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   4:21 am
Operator  : chorngli
Sample    : cc339-500
Misc      : op41180,grk355,15.0,,,10,1
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:28:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(51) Decachlorobiphenyl (S)

10.341min 13.348 ppb

response 455353748

(51) Decachlorobiphenyl #2 (S)

12.085min 16.256 ppb

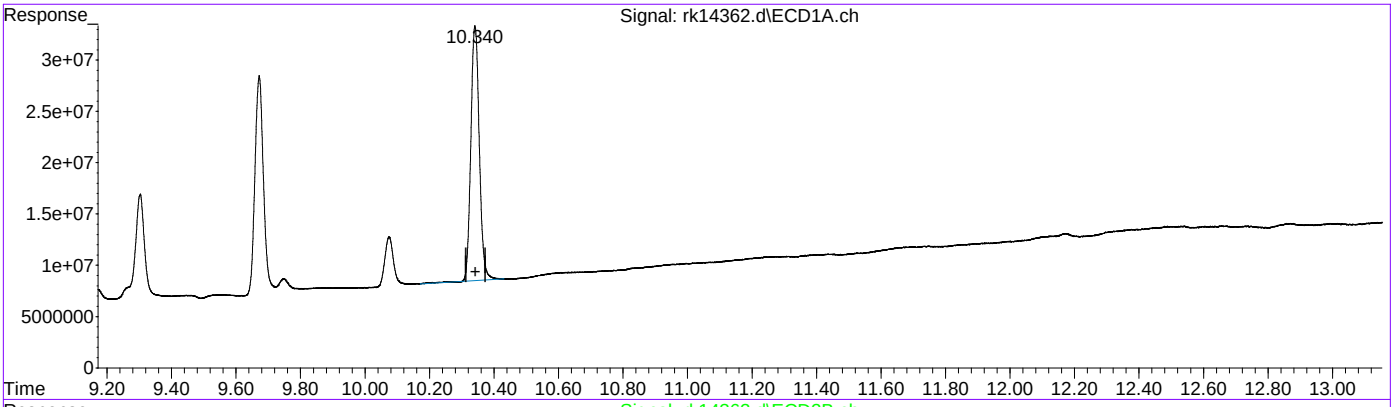
response 1274001740

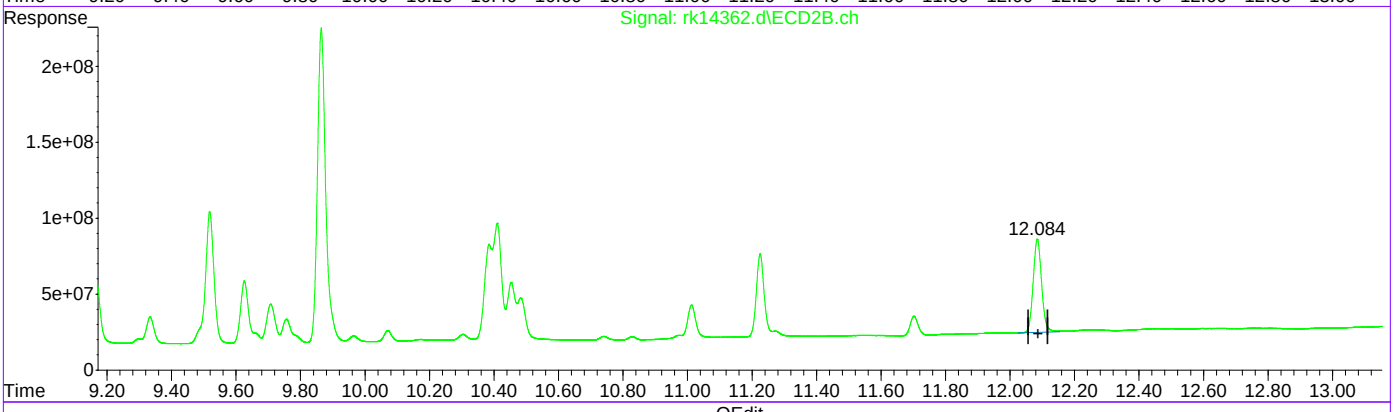
(+) = Expected Retention Time

RKPCB339.M Sat Aug 13 22:28:49 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   4:21 am
Operator  : chorngli
Sample    : cc339-500
Misc      : op41180,grk355,15.0,,,10,1
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:28:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(51) Decachlorobiphenyl (S)

10.341min 13.348 ppb

response 455353748

(51) Decachlorobiphenyl #2 (S)

12.084min 14.244 ppb m

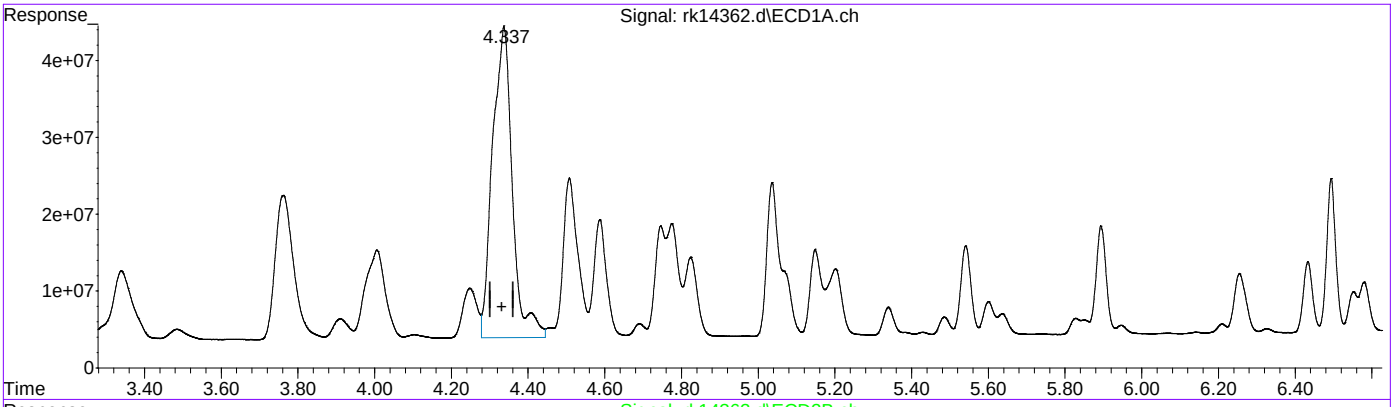
response 1116343189

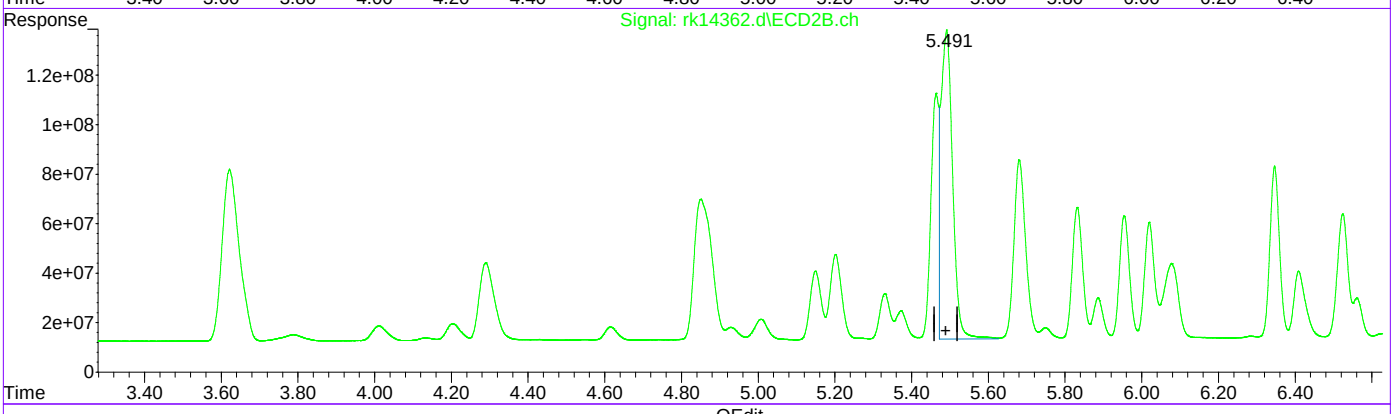
(+) = Expected Retention Time

RKPCB339.M Sat Aug 13 22:28:56 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Aug 2022   4:21 am
Operator  : chorngli
Sample    : cc339-500
Misc      : op41180,grk355,15.0,,,10,1
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:28:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(33) AR1016-C

4.337min 538.115 PPB

response 1450547854

(33) AR1016-C #2

5.491min 372.908 PPB

response 2655299489

(+) = Expected Retention Time

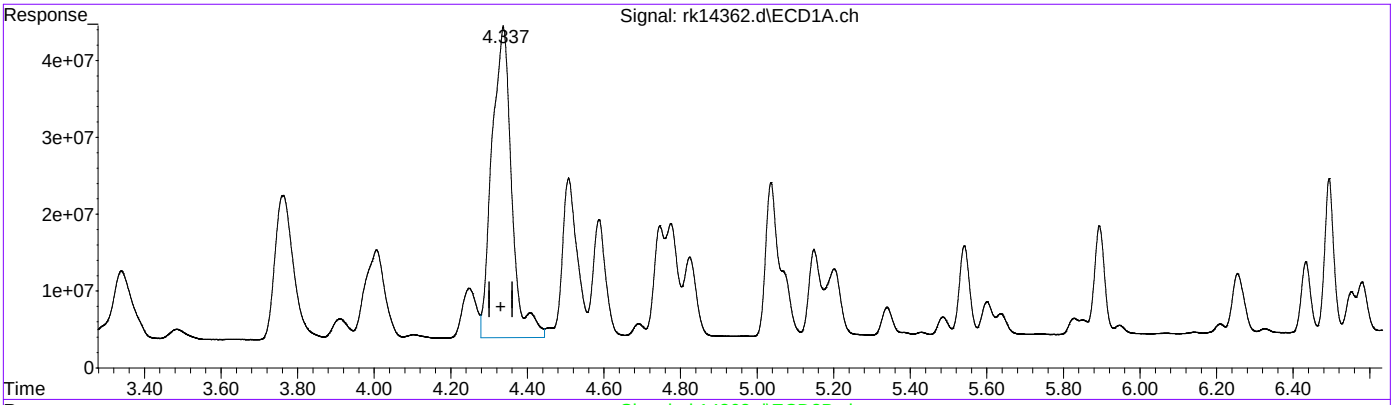
RKPCB339.M Sat Aug 13 22:29:03 2022

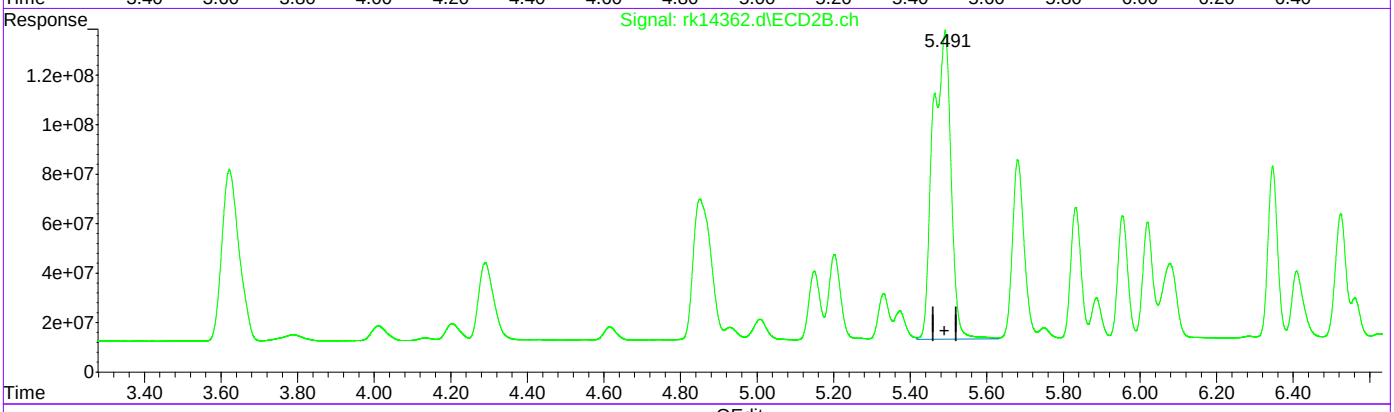
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 4:21 am
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:28:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C

4.337min 538.115 PPB

response 1450547854

(33) AR1016-C #2

5.491min 570.144 PPB m

response 4059725909

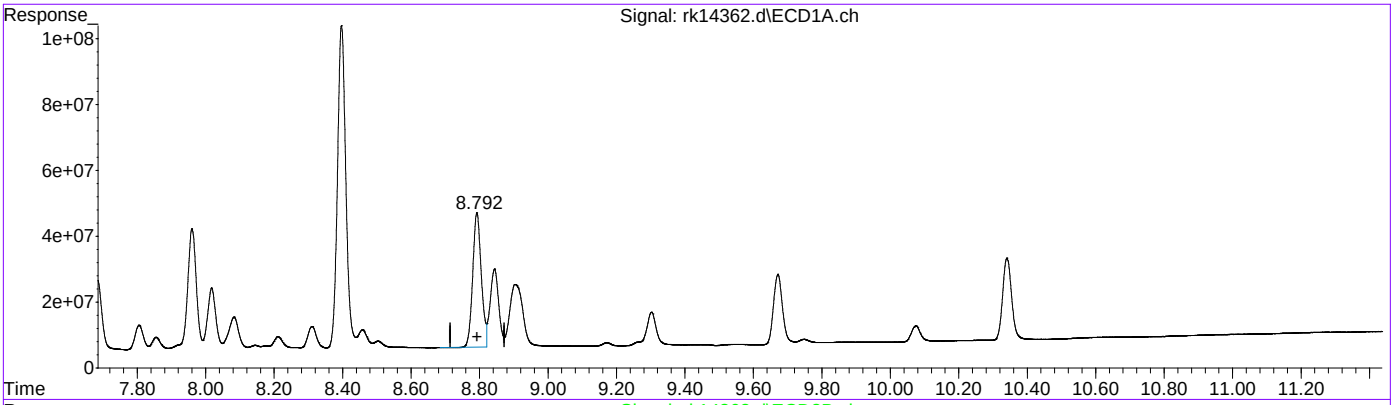
(+) = Expected Retention Time
RKPCB339.M Sat Aug 13 22:29:10 2022

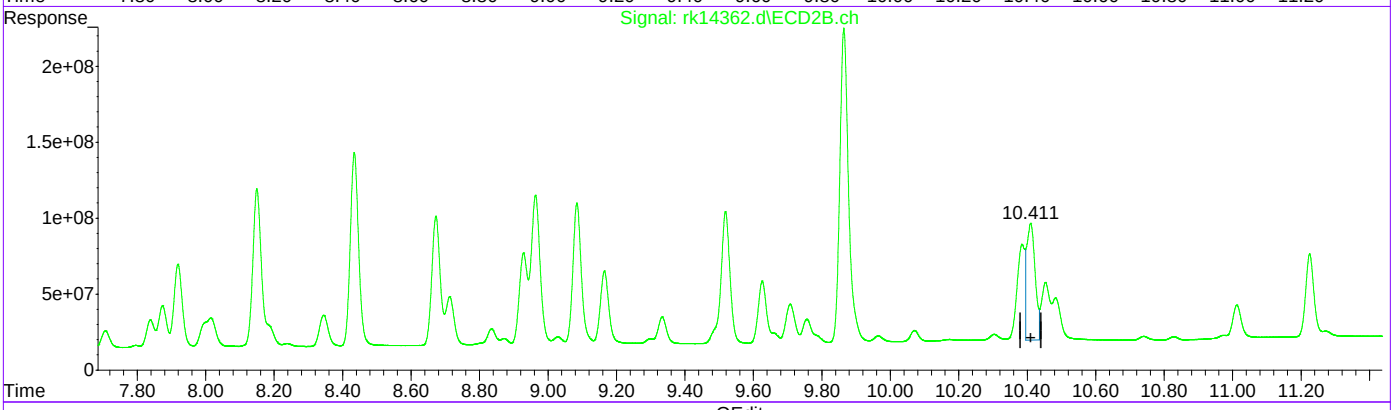
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 4:21 am
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:28:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E

8.793min 173.183 PPB

response 712653668

(40) AR1260-E #2

10.410min 144.771 PPB

response 1319476302

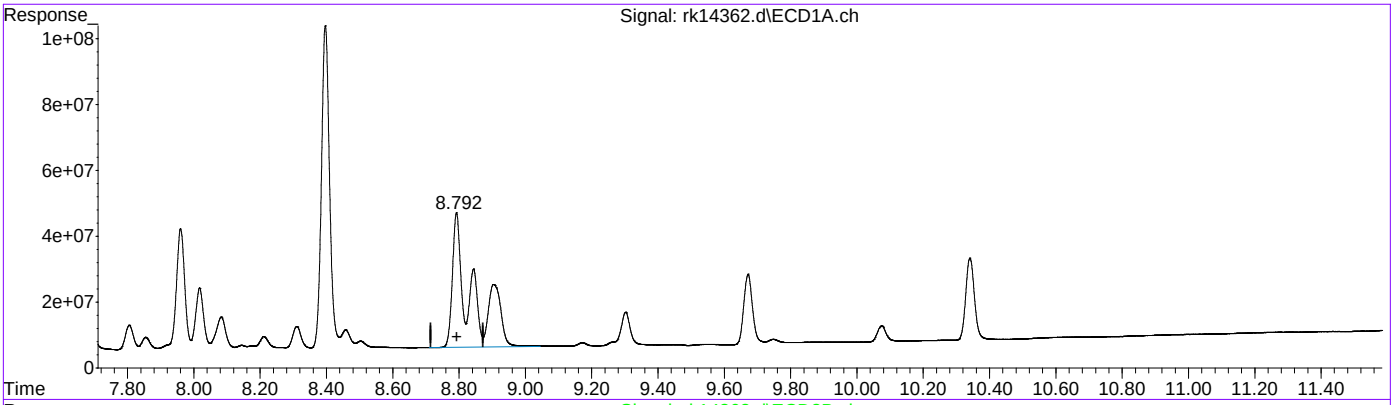
(+) = Expected Retention Time
RKPCB339.M Sat Aug 13 22:29:18 2022

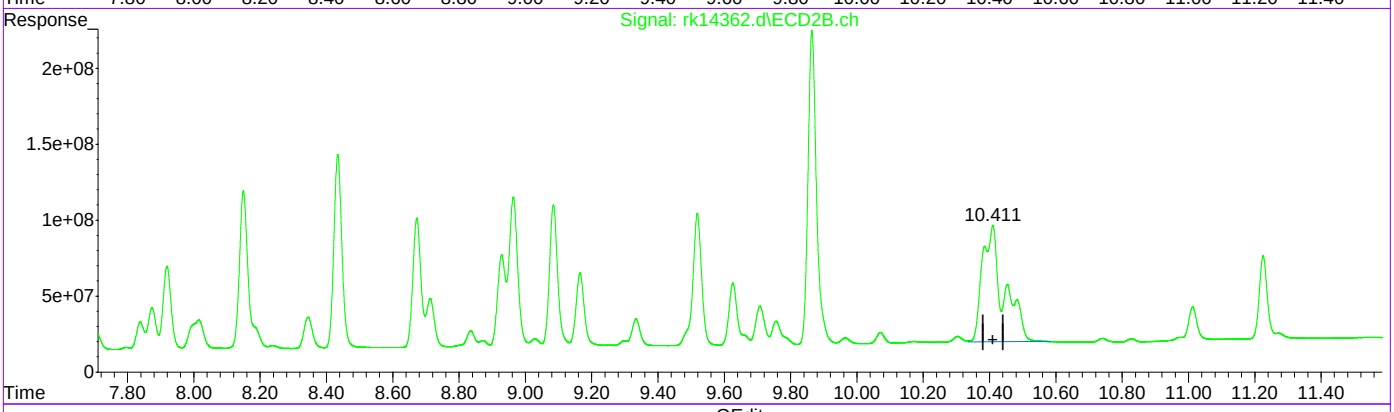
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\sarah\grk355\
Data File : rk14362.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Aug 2022 4:21 am
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk355,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 13 22:28:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 08 21:55:12 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E

8.792min 400.873 PPB m

response 1649607875

(40) AR1260-E #2

10.411min 376.638 PPB m

response 3432766277

(+) = Expected Retention Time
RKPCB339.M Sat Aug 13 22:29:39 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/17/22 09:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 6:46 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41230,grk359,10.0,,,10,1
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 00:53:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.948	3.620	1435.9E6	4128.0E6	41.729	43.611
Spiked Amount	40.000			Recovery	=	104.32%	109.03%
51) S	Decachlor...	10.348	12.083	1308.7E6	3105.4E6	38.364	39.624
Spiked Amount	40.000			Recovery	=	95.91%	99.06%
	Target Compounds						
31)	AR1016-A	3.342	4.288	655.8E6	1563.8E6	1014.955	1104.639
32)	AR1016-B	3.764	4.850	1182.1E6	3397.9E6	1043.807	1059.901
33)	AR1016-C	4.339	5.489	2669.7E6	7948.0E6	990.379m	1116.209
34)	AR1016-D	4.512	5.680	1040.9E6	3041.7E6	1042.405	1118.212
35)	AR1016-E	5.041	6.344	1044.9E6	2480.8E6	1025.546	1119.354
36)	AR1260-A	7.077	8.433	2252.4E6	5257.4E6	993.324	1117.023
37)	AR1260-B	7.624	9.083	1723.0E6	4119.2E6	1000.636	1086.704
38)	AR1260-C	7.967	9.518	1468.6E6	4277.0E6	955.607	1037.213
39)	AR1260-D	8.404	9.863	3871.1E6	9726.7E6	991.964m	1099.715
40)	AR1260-E	8.802	10.410	4046.5E6	9436.0E6	983.344m	1035.310m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.49

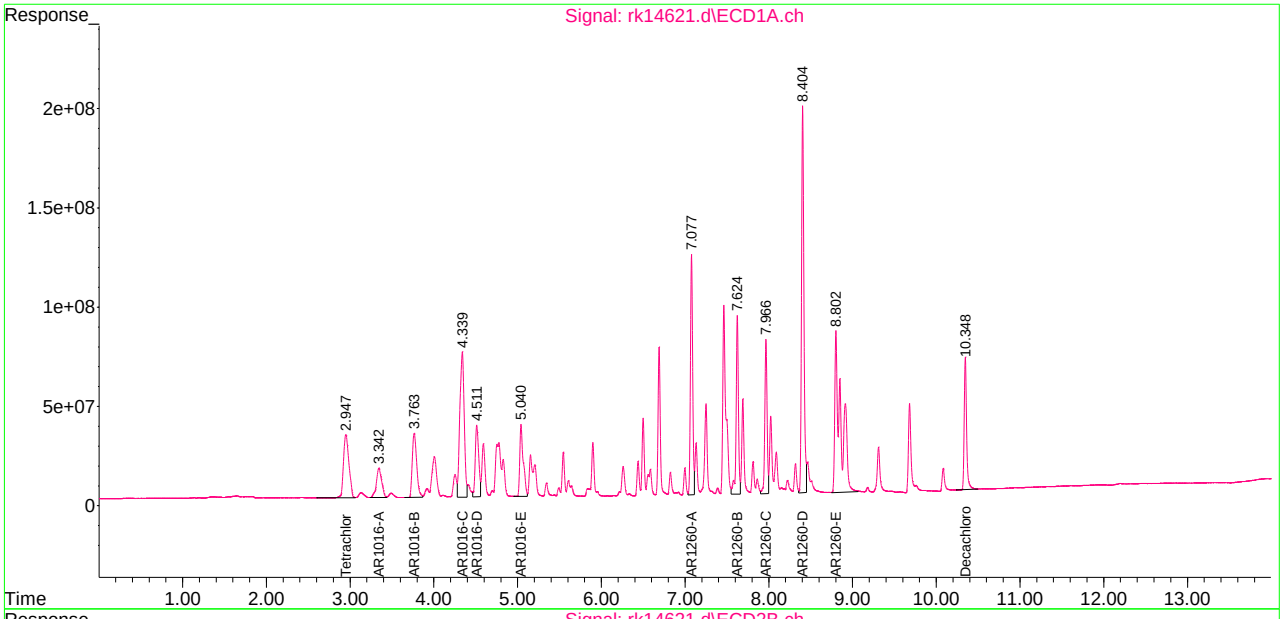
9

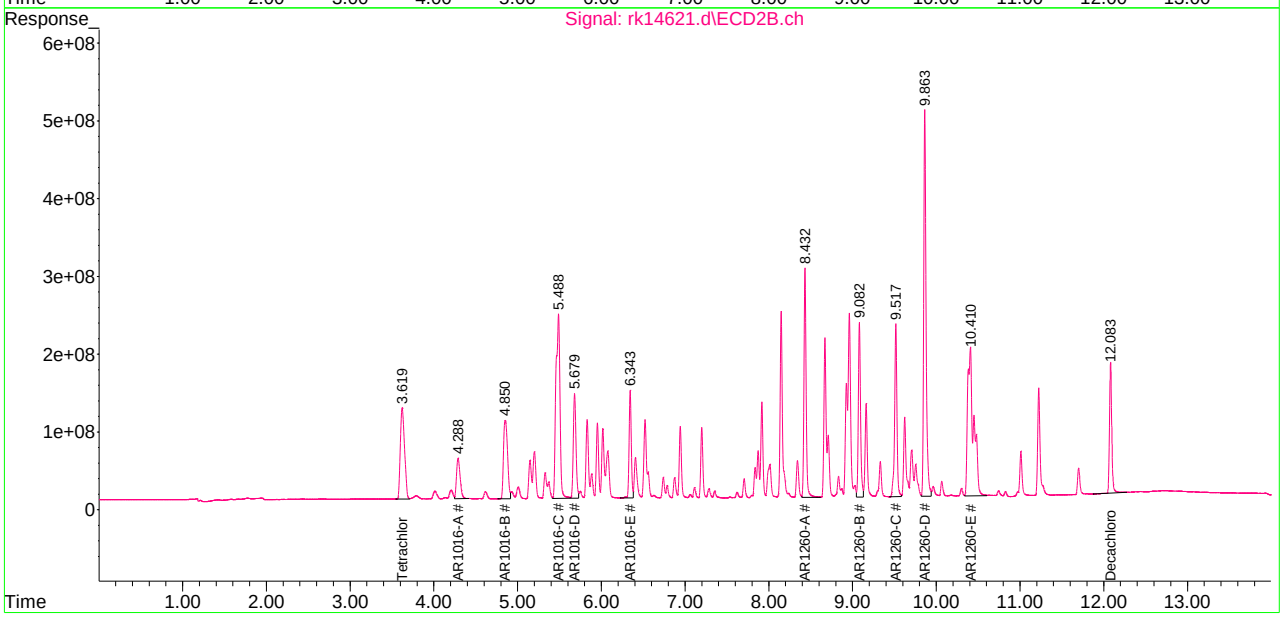
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 6:46 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41230,grk359,10.0,,,10,1
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 00:53:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





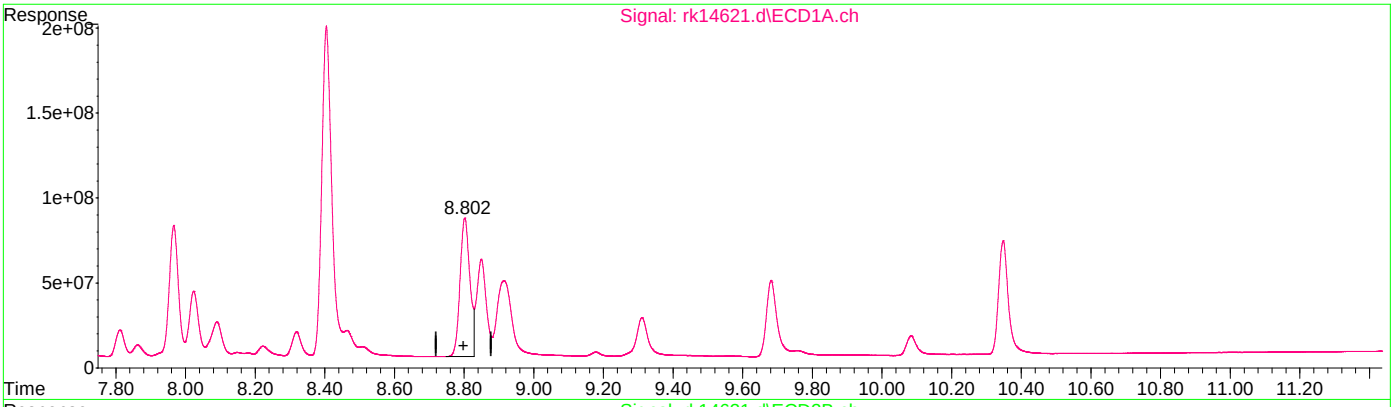
Manual Integration Approval Summary

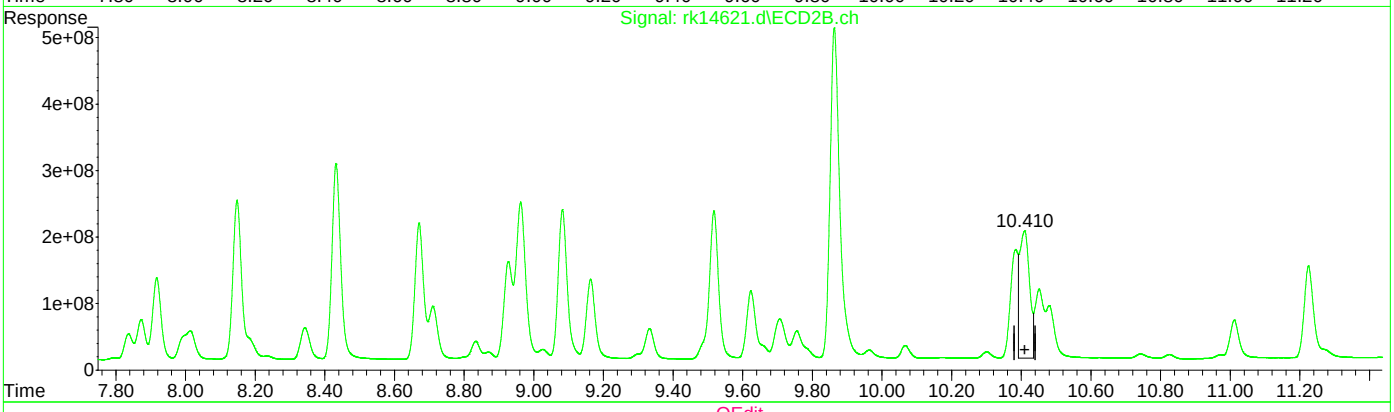
Sample Number:	GRK359-CC339	**Method:**	SW846 8082A
Lab FileID:	RK14621.D	**Analyst approved:**	08/17/22 02:43 Christopher Changho
Injection Time:	08/16/22 18:46	**Supervisor approved:**	08/17/22 09:04 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-C		1	4.34	Poorly defined baseline
AR1260-D		1	8.40	Poorly defined baseline
AR1260-E		1	8.80	Poorly defined baseline
AR1260-E		2	10.41	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 16 Aug 2022   6:46 pm
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41230,grk359,10.0,,,10,1
ALS Vial  : 52   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:19:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(40) AR1260-E

8.802min 390.270 PPB

response 1605975092

(40) AR1260-E #2

10.409min 416.750 PPB

response 3798351218

(+) = Expected Retention Time

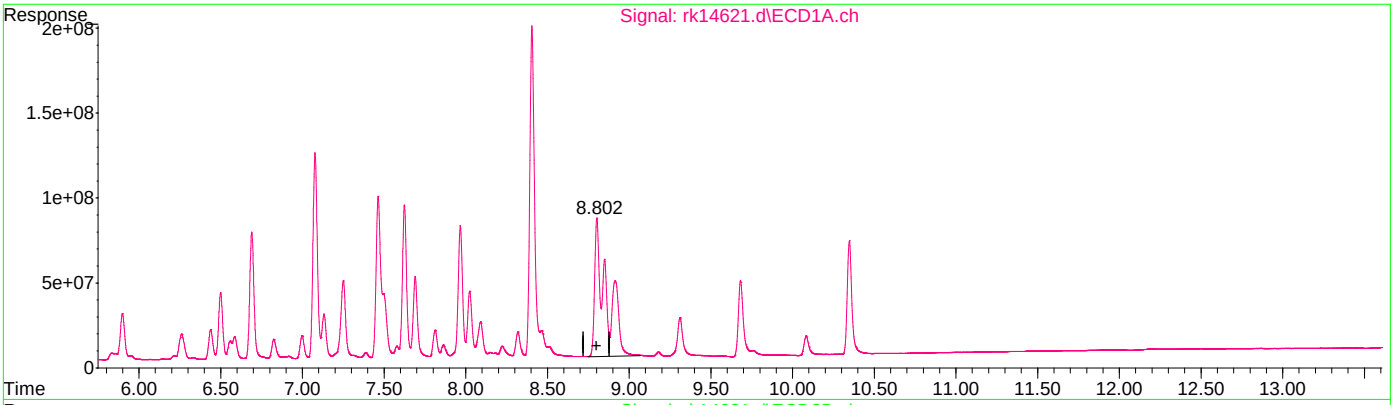
RKPCB339.M Wed Aug 17 00:52:34 2022

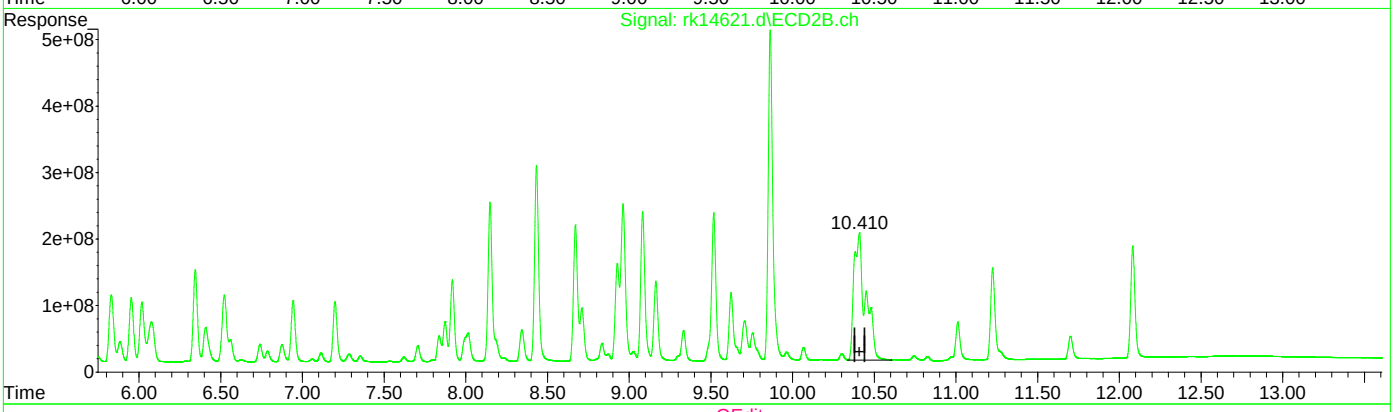
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 6:46 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41230,grk359,10.0,,,10,1
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:19:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E

8.802min 983.344 PPB m

response 4046495736

(40) AR1260-E #2

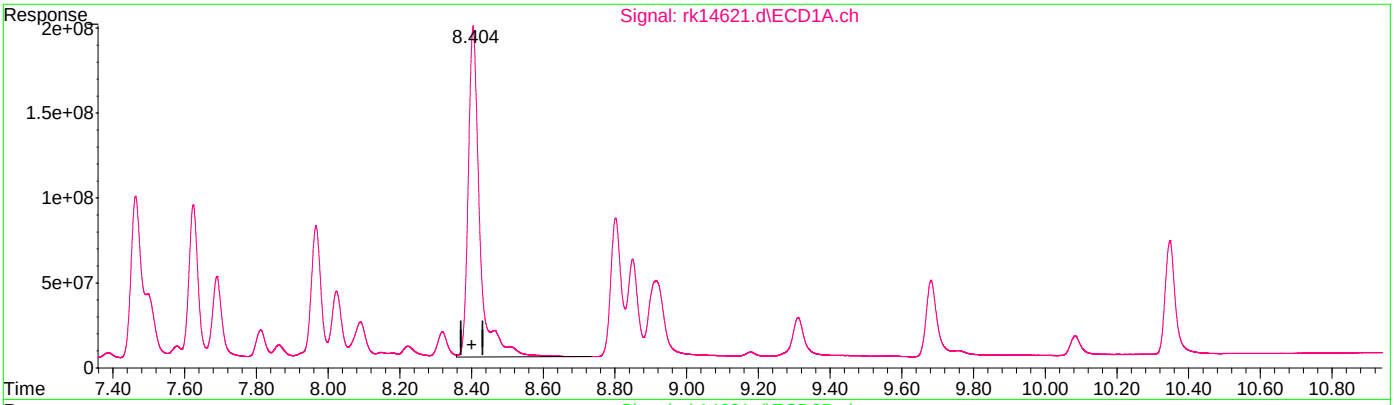
10.410min 1035.310 PPB m

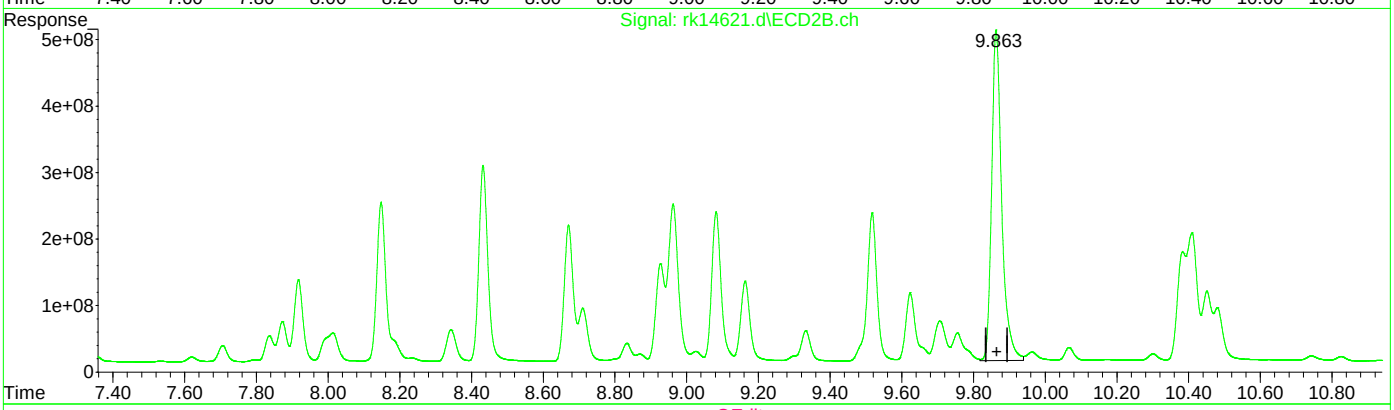
response 9436048952

(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 00:52:44 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 16 Aug 2022   6:46 pm
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41230,grk359,10.0,,,10,1
ALS Vial  : 52   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:19:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title  :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(39) AR1260-D

8.405min 1119.365 PPB

response 4368223326

(39) AR1260-D #2

9.863min 1099.715 PPB

response 9726689627

(+) = Expected Retention Time

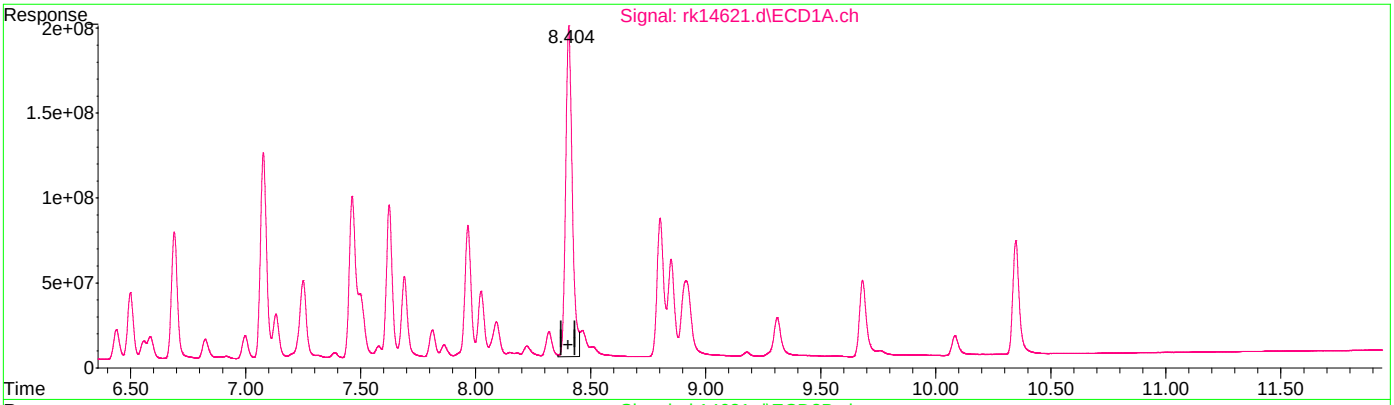
RKPCB339.M Wed Aug 17 00:52:46 2022

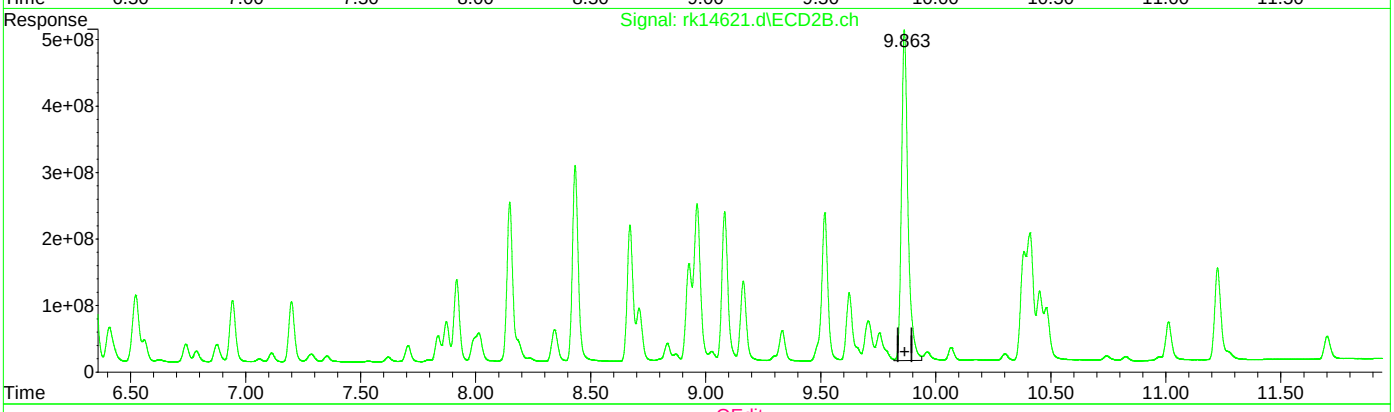
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 6:46 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41230,grk359,10.0,,,10,1
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:19:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(39) AR1260-D

8.404min 991.964 PPB m

response 3871052659

(39) AR1260-D #2

9.863min 1099.715 PPB

response 9726689627

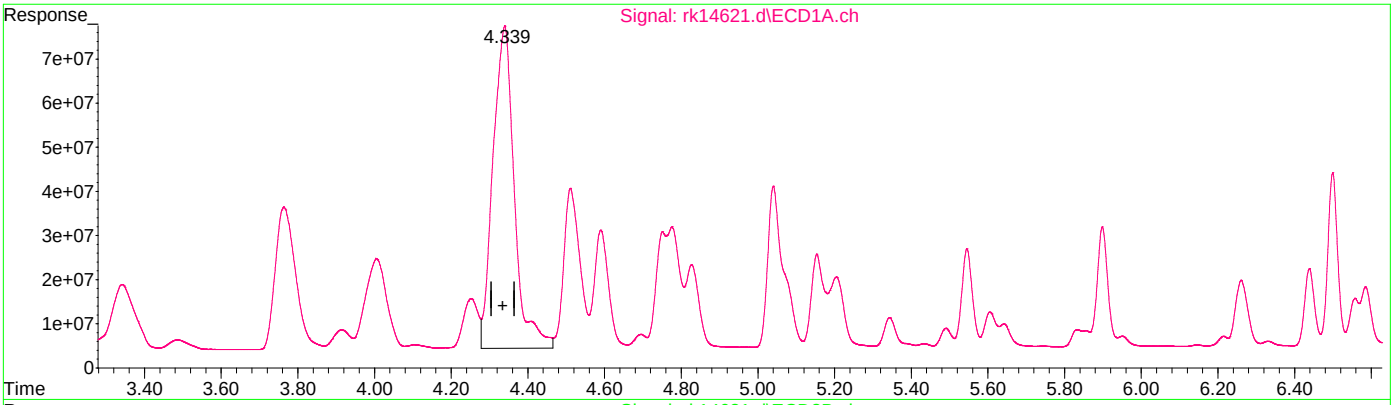
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 00:52:54 2022

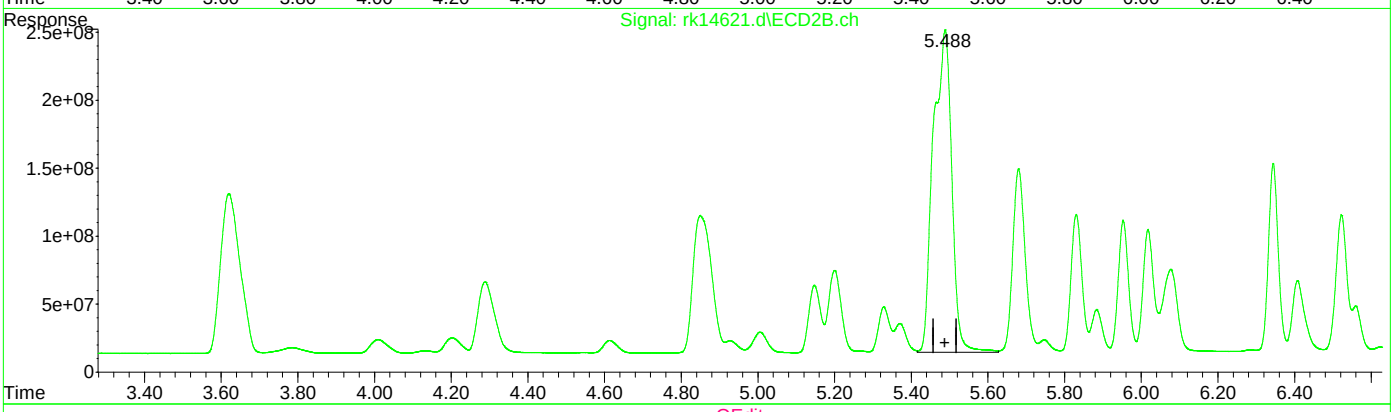
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 6:46 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41230,grk359,10.0,,,10,1
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:19:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C

4.339min 1047.385 PPB

response 2823340766

(33) AR1016-C #2

5.489min 1116.209 PPB

response 7947994852

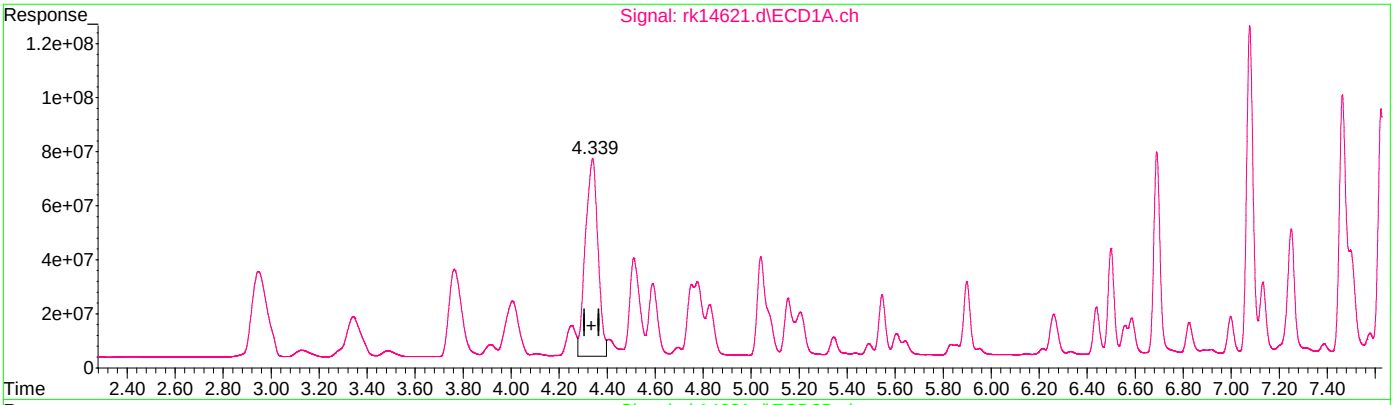
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 00:53:03 2022

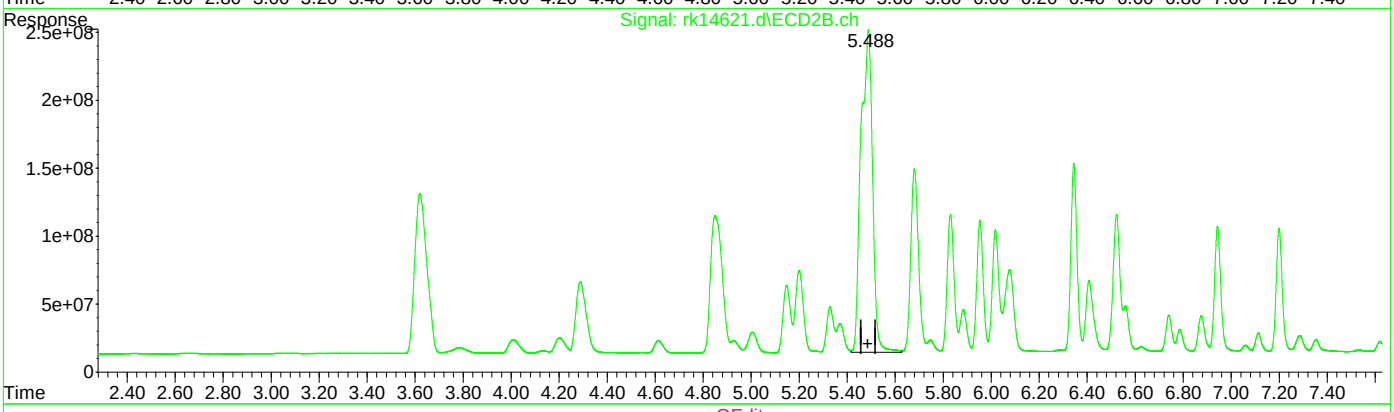
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 6:46 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41230,grk359,10.0,,,10,1
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 16 21:19:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C

4.339min 990.379 PPB m

response 2669672950

(33) AR1016-C #2

5.489min 1116.209 PPB

response 7947994852

(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 00:53:09 2022

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
08/17/22 09:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:03:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.951	3.622	752.8E6	2193.0E6	21.878	23.168
Spiked Amount	40.000			Recovery	=	54.70%	57.92%
51) S	Decachlor...	10.348	12.082	627.4E6	1437.4E6	18.392	18.341
Spiked Amount	40.000			Recovery	=	45.98%	45.85%
	Target Compounds						
31)	AR1016-A	3.345	4.290	359.3E6	882.3E6	556.004	623.244
32)	AR1016-B	3.767	4.852	635.7E6	1913.3E6	561.359	596.821
33)	AR1016-C	4.340	5.490	1410.3E6	4388.8E6	523.182m	616.363
34)	AR1016-D	4.513	5.681	560.1E6	1680.5E6	560.880	617.813
35)	AR1016-E	5.041	6.345	559.6E6	1331.0E6	549.270	600.574
36)	AR1260-A	7.077	8.433	1173.6E6	2697.2E6	517.551	573.063
37)	AR1260-B	7.624	9.082	889.6E6	2042.9E6	516.638	538.962
38)	AR1260-C	7.966	9.517	754.2E6	2067.1E6	490.769	501.301
39)	AR1260-D	8.405	9.863	1957.1E6	4648.4E6	501.522m	525.551
40)	AR1260-E	8.801	10.408	2020.5E6	4433.4E6	491.008m	486.423m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.50

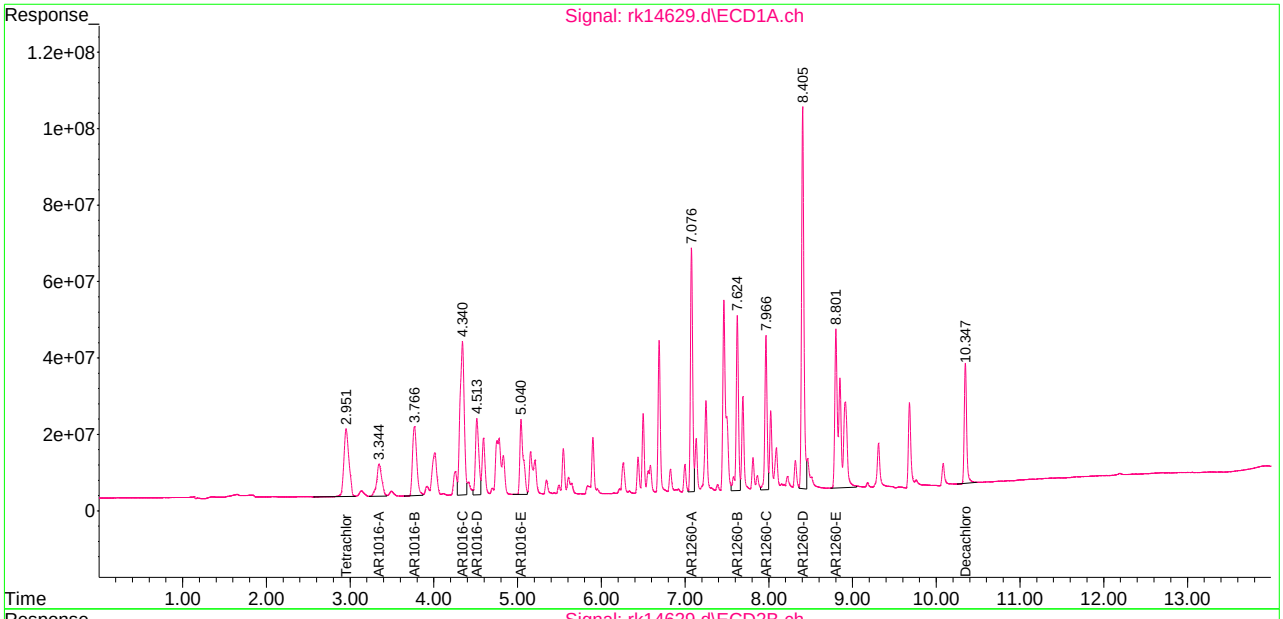
9

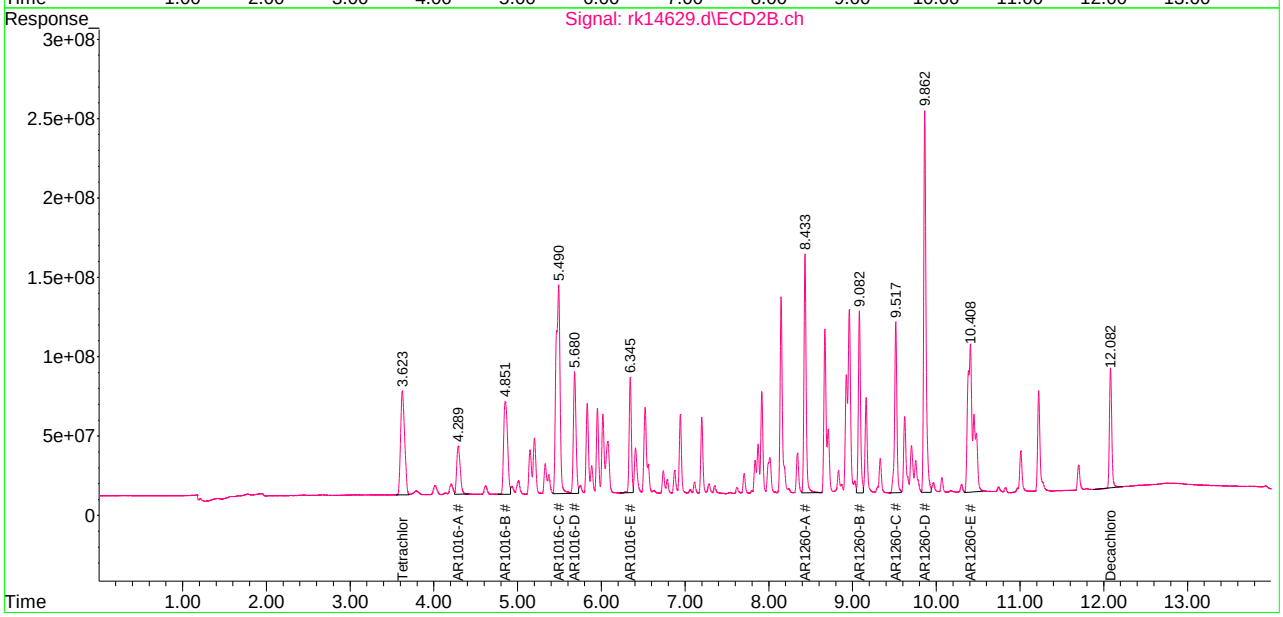
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:03:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK359-CC339	**Method:**	SW846 8082A
Lab FileID:	RK14629.D	**Analyst approved:**	08/17/22 02:43 Christopher Changho
Injection Time:	08/16/22 21:08	**Supervisor approved:**	08/17/22 09:04 Gwendolyn Burns

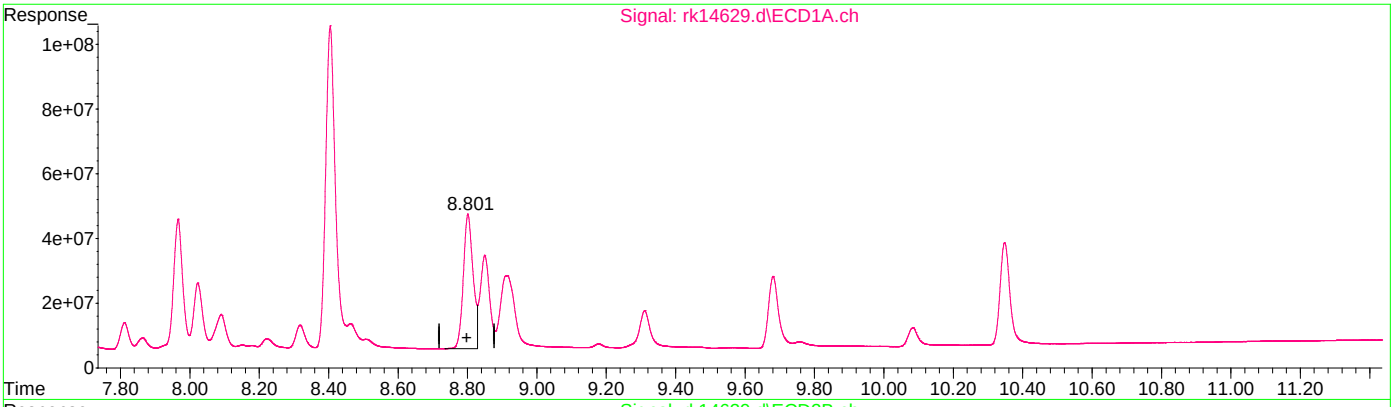
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-C		1	4.34	Poorly defined baseline
AR1260-D		1	8.40	Poorly defined baseline
AR1260-E		1	8.80	Poorly defined baseline
AR1260-E		2	10.41	Poorly defined baseline

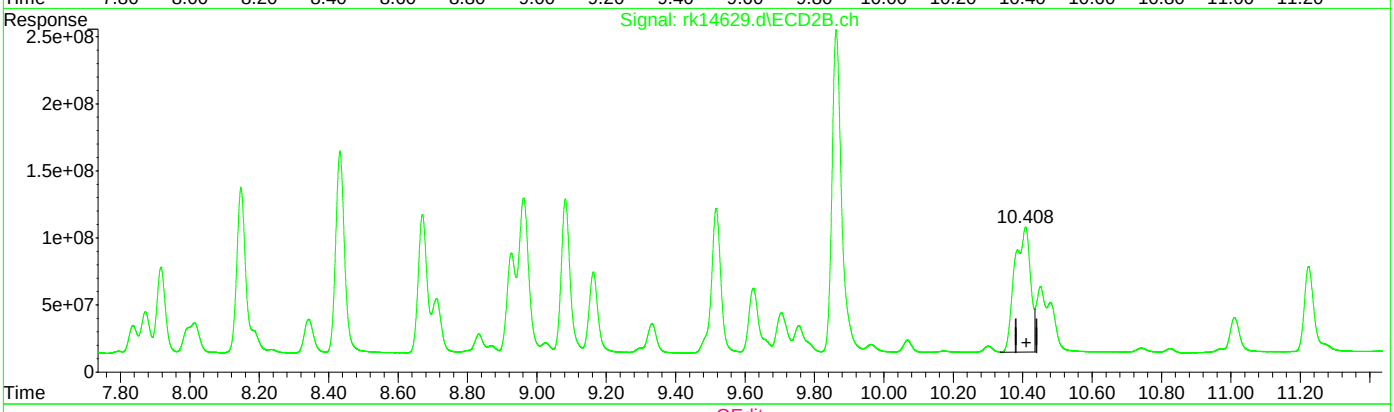
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:00:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E

8.802min 195.980 PPB

response 806464778

(40) AR1260-E #2

10.408min 320.938 PPB

response 2925101110

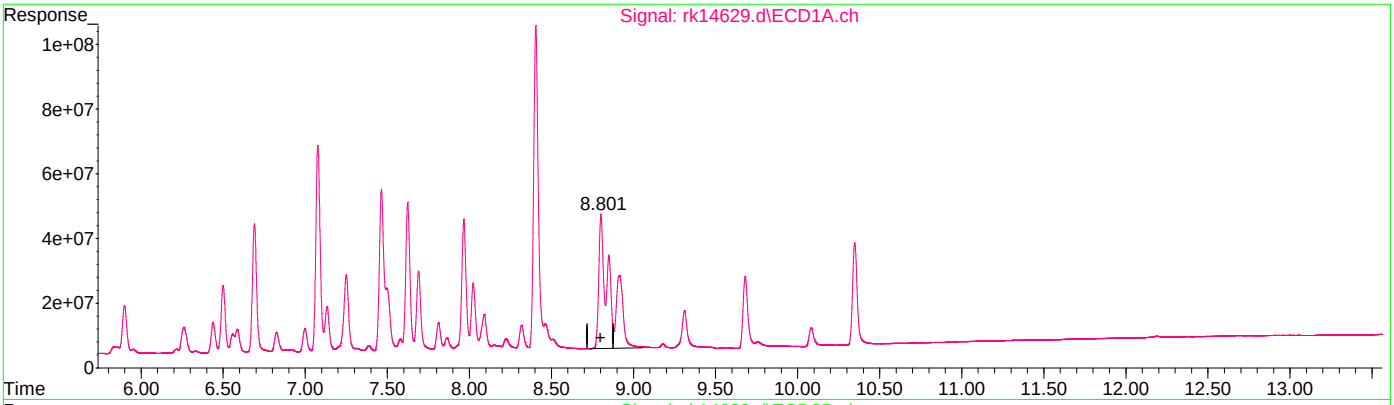
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 01:02:08 2022

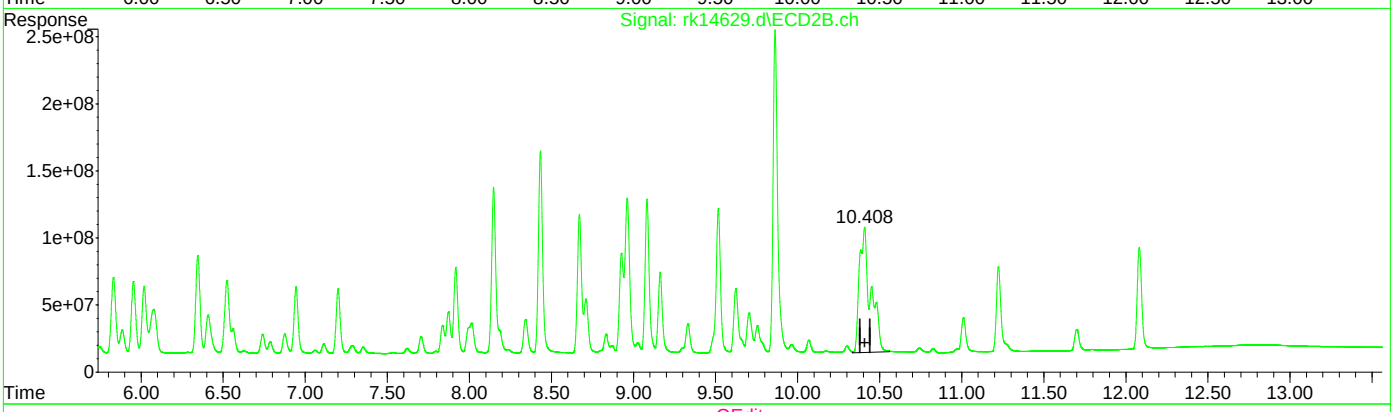
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:00:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E

8.801min 491.008 PPB m

response 2020516775

(40) AR1260-E #2

10.408min 486.423 PPB m

response 4433366332

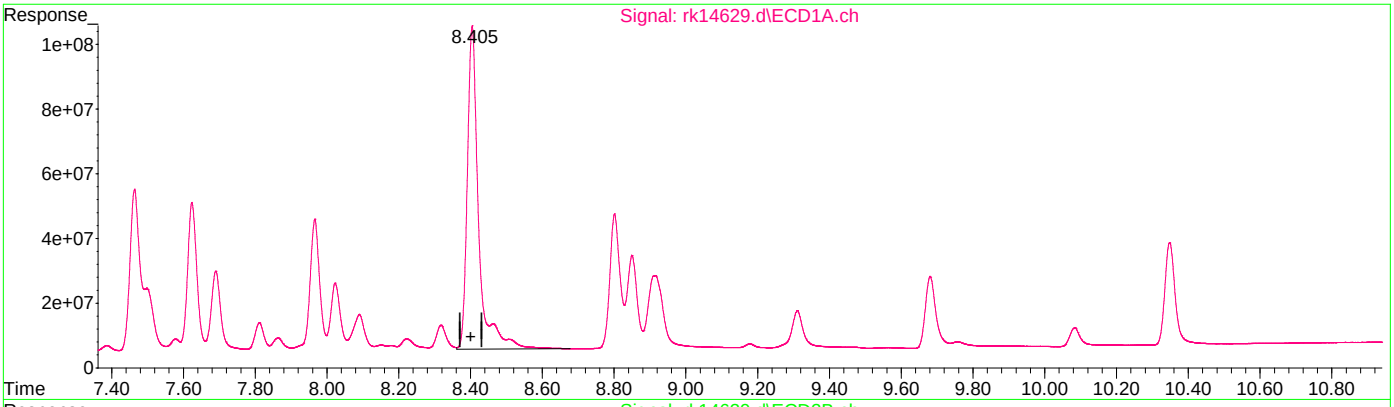
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 01:02:24 2022

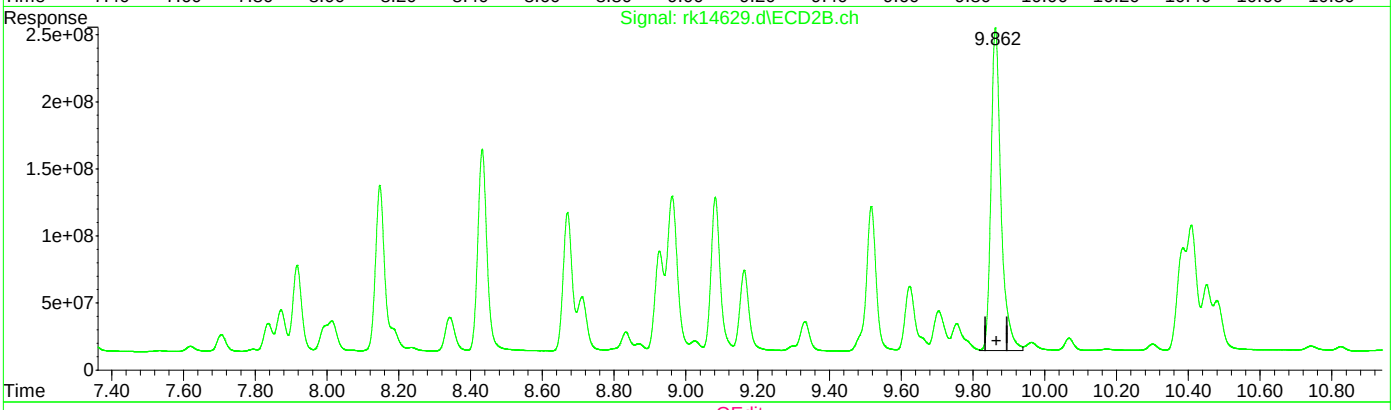
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:00:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(39) AR1260-D

8.405min 562.465 PPB

response 2194970523

(39) AR1260-D #2

9.863min 525.551 PPB

response 4648360357

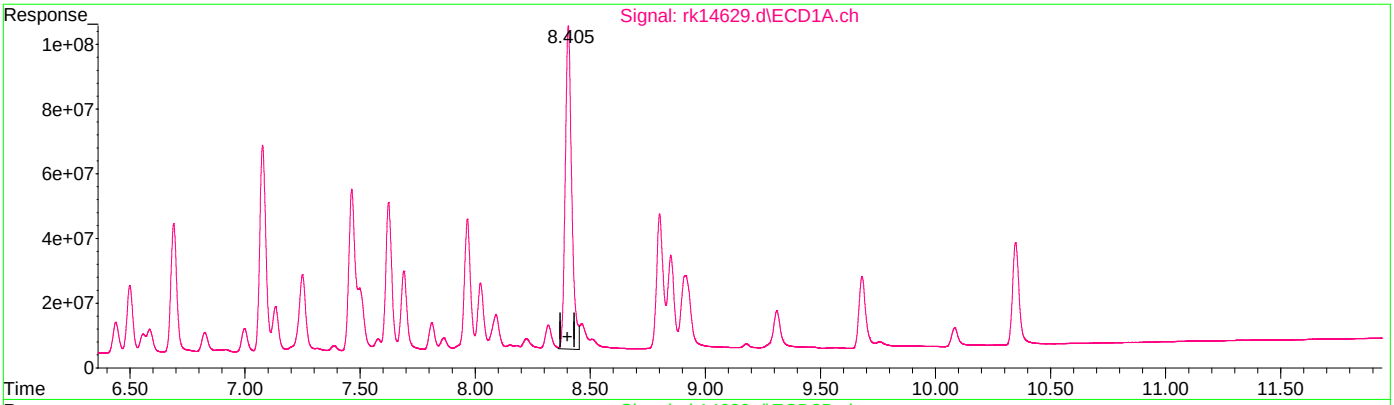
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 01:02:30 2022

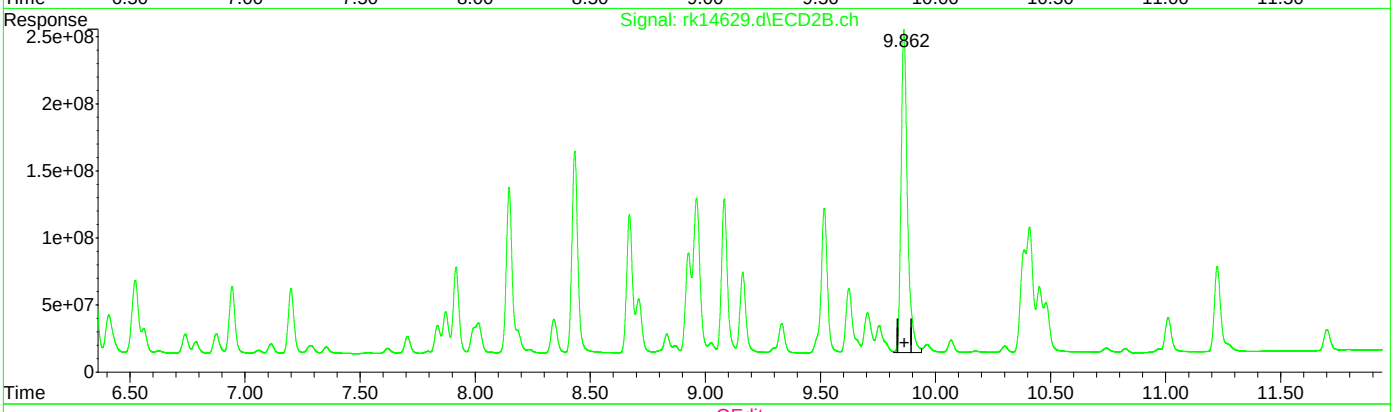
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:00:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(39) AR1260-D

8.405min 501.522 PPB m

response 1957145935

(39) AR1260-D #2

9.863min 525.551 PPB

response 4648360357

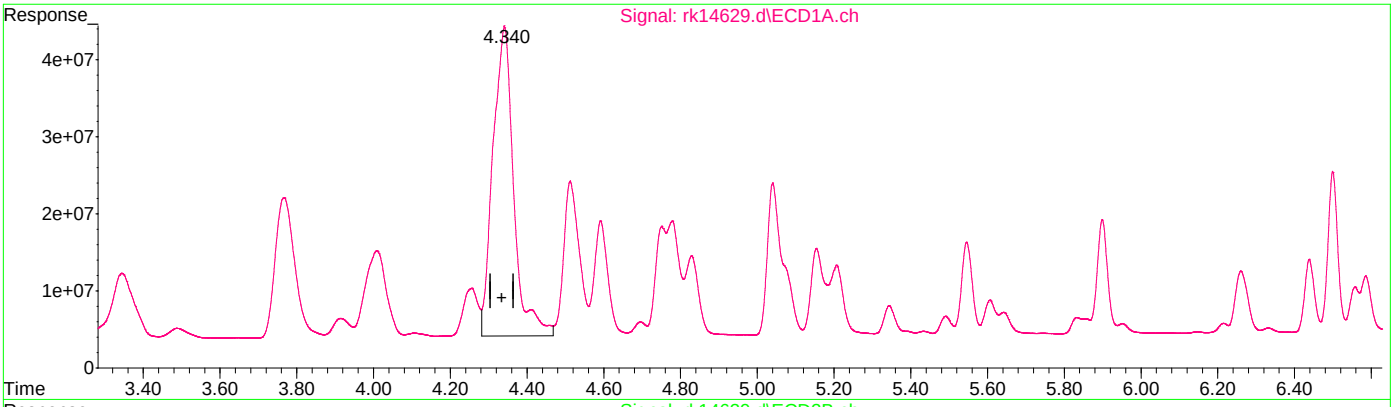
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 01:02:35 2022

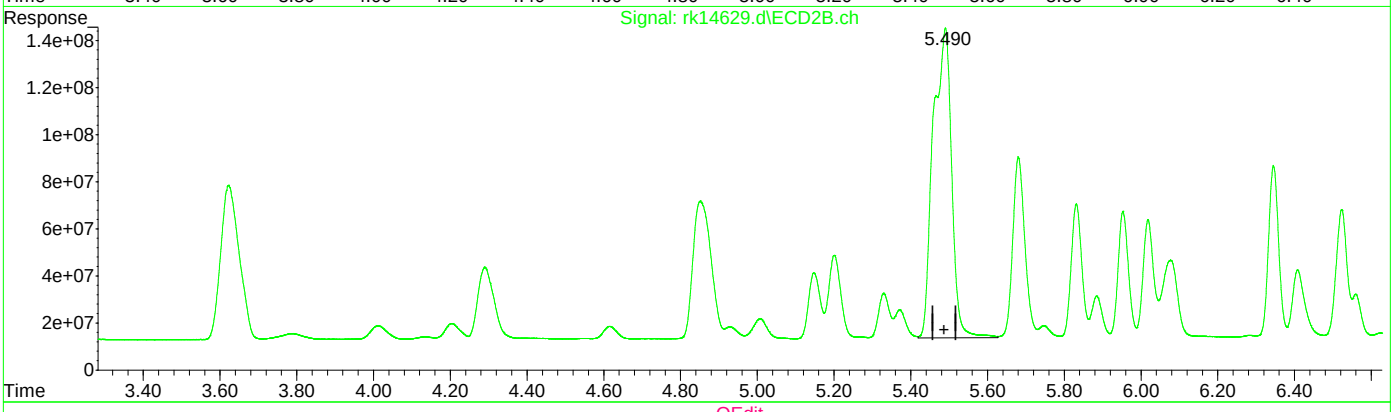
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:00:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C

4.341min 559.233 PPB

response 1507473334

(33) AR1016-C #2

5.490min 616.363 PPB

response 4388829659

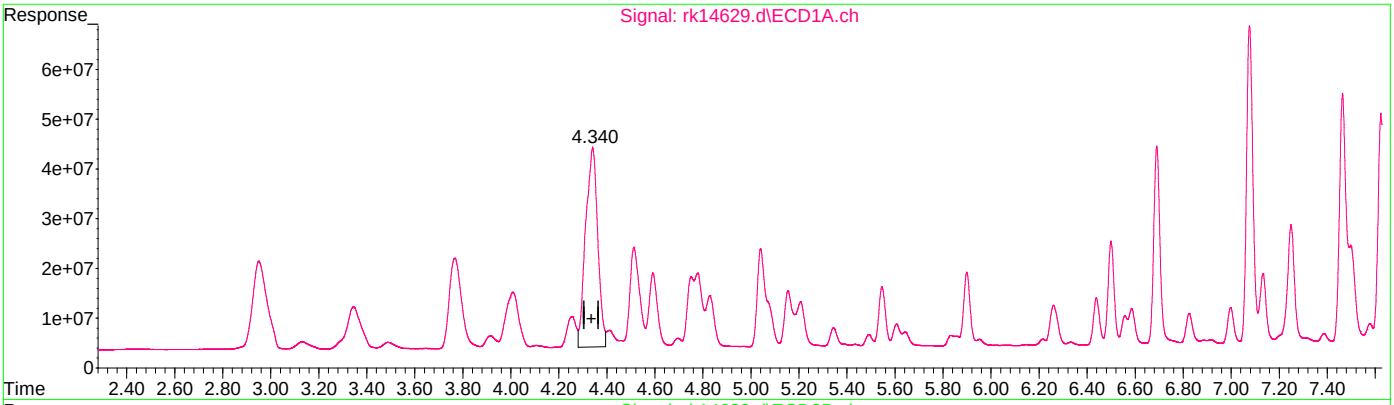
(+) = Expected Retention Time
RKPCB339.M Wed Aug 17 01:02:53 2022

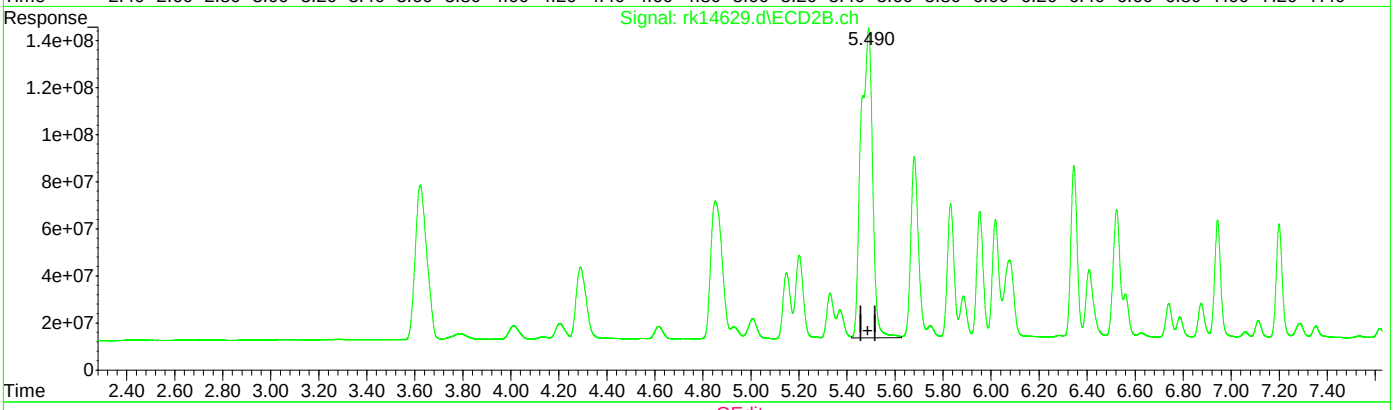
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\chrisc2\grk359\
Data File : rk14629.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Aug 2022 9:08 pm
Operator : chorngli
Sample : cc339-500
Misc : op41180,grk359,15.0,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 01:00:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\RKPCB339.M
Quant Title :
QLast Update : Mon Aug 15 21:10:35 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(33) AR1016-C

4.340min 523.182 PPB m

response 1410292725

(33) AR1016-C #2

5.490min 616.363 PPB

response 4388829659

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
08/18/22 15:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14679.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 11:12 am
Operator : chorngli
Sample : cc339-500
Misc : op41257,grk361,15.0,,,10,1
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:08:30 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.934	3.612	644.3E6	1800.7E6	18.723m	19.024
	Spiked Amount 40.000			Recovery	=	46.81%	47.56%
51) S	Decachlor...	10.347	12.082	614.6E6	1609.6E6	18.017	20.538
	Spiked Amount 40.000			Recovery	=	45.04%	51.34%
	Target Compounds						
31)	AR1016-A	3.332	4.282	309.6E6	733.1E6	479.184	517.841
32)	AR1016-B	3.756	4.846	555.5E6	1638.6E6	490.477	511.127
33)	AR1016-C	4.331	5.486	1322.3E6	3693.9E6	490.555	518.764
34)	AR1016-D	4.505	5.678	478.4E6	1396.7E6	479.084	513.483
35)	AR1016-E	5.035	6.343	476.4E6	1110.2E6	467.543	500.930
36)	AR1260-A	7.074	8.432	1037.3E6	2513.2E6	457.451	533.961
37)	AR1260-B	7.621	9.082	788.7E6	1944.0E6	458.052	512.849
38)	AR1260-C	7.963	9.517	678.9E6	2026.9E6	441.790	491.532
39)	AR1260-D	8.402	9.863	2028.8E6	4684.7E6	519.892	529.663
40)	AR1260-E	8.799	10.409	1913.6E6	4660.2E6	465.030m	511.311m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.51

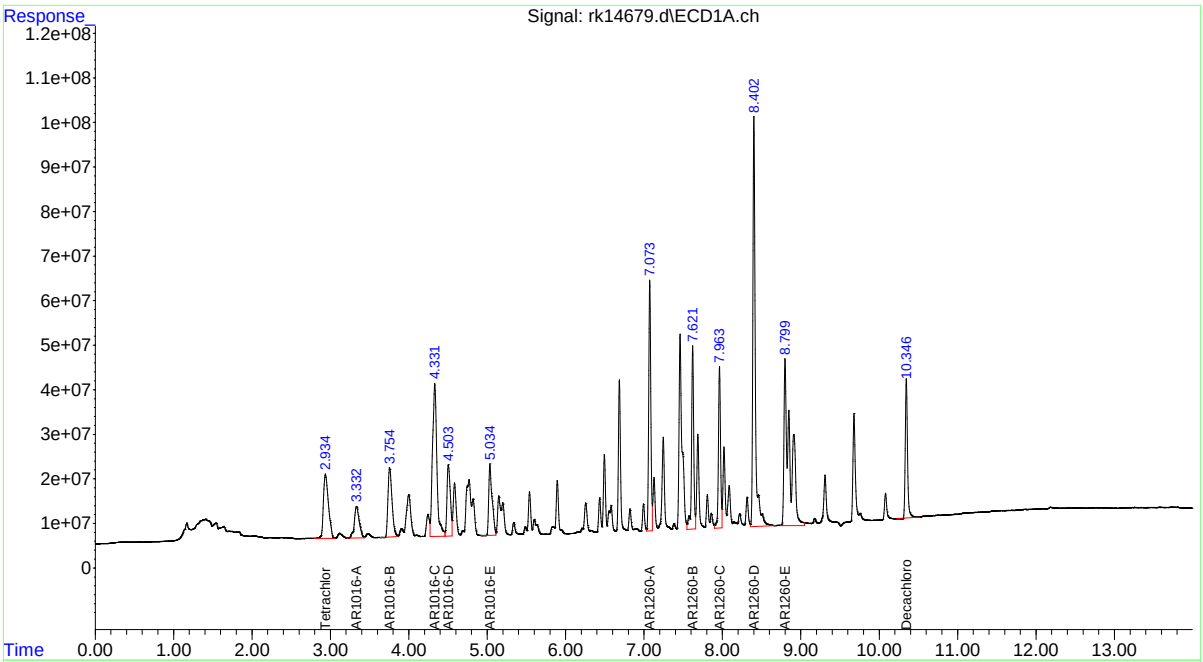
9

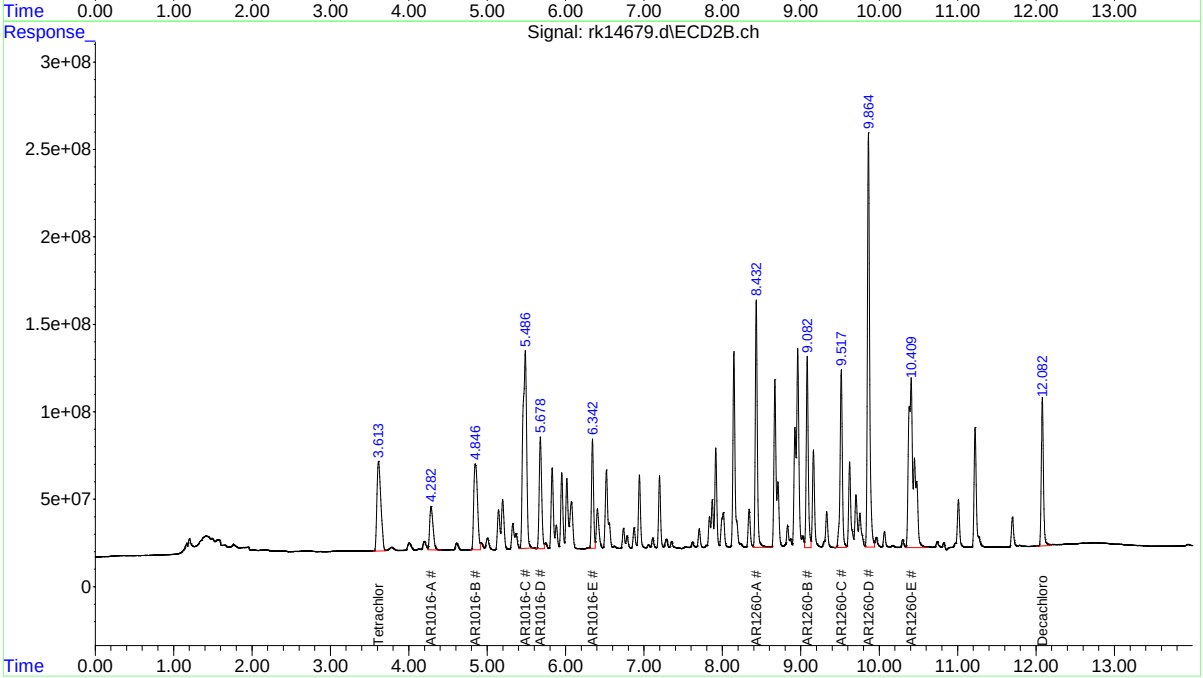
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14679.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 11:12 am
Operator : chorngli
Sample : cc339-500
Misc : op41257,grk361,15.0,,,10,1
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:08:30 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





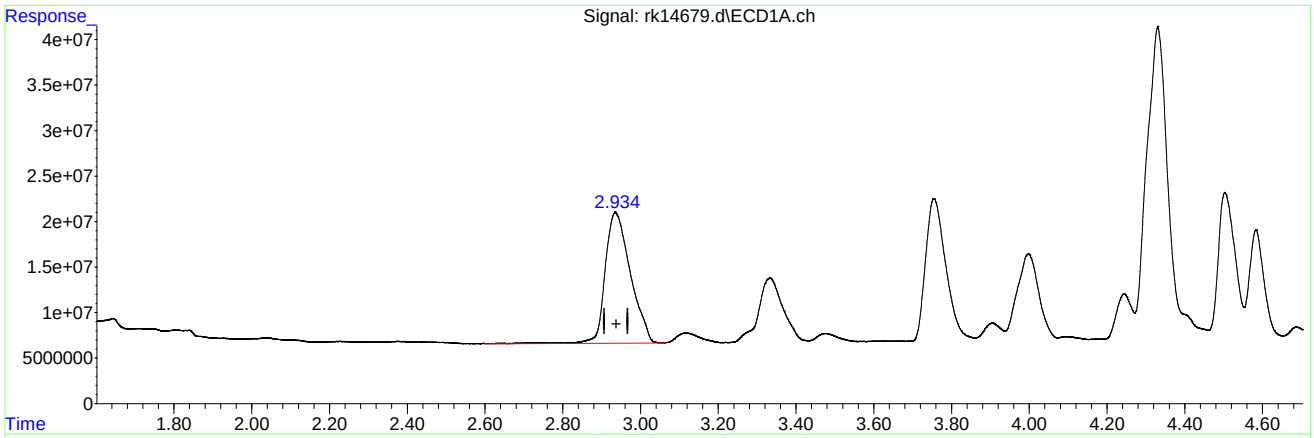
Manual Integration Approval Summary

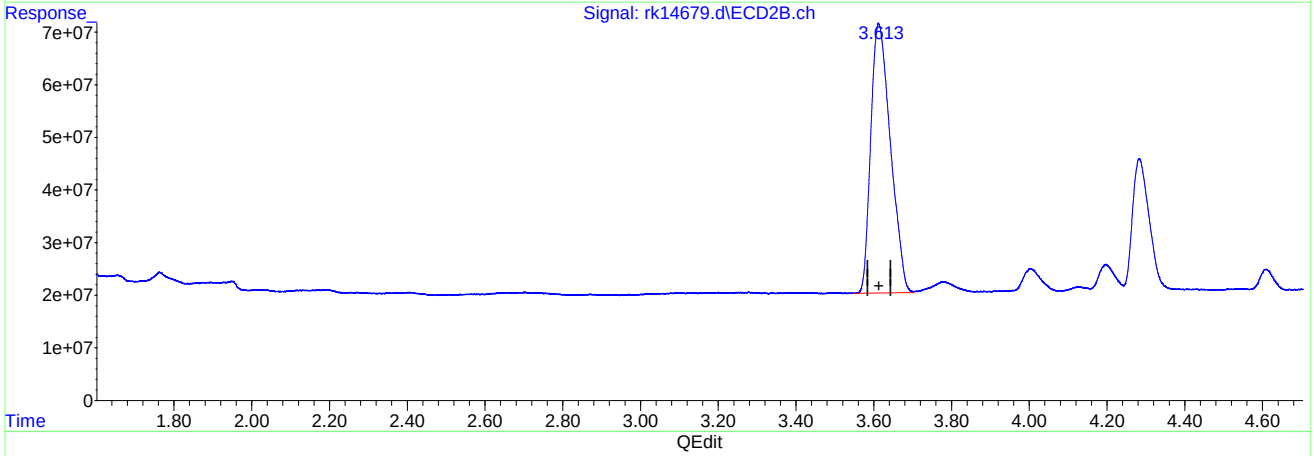
Sample Number:	GRK361-CC339	**Method:**	SW846 8082A
Lab FileID:	RK14679.D	**Analyst approved:**	08/18/22 15:36 Gwendolyn Burns
Injection Time:	08/17/22 11:12	**Supervisor approved:**	08/18/22 15:41 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.93	Poorly defined baseline
AR1260-E		1	8.80	Poorly defined baseline
AR1260-E		2	10.41	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\rk361\
Data File : rk14679.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 17 Aug 2022  11:12 am
Operator  : chorngli
Sample    : cc339-500
Misc      : op41257,grk361,15.0,,,10,1
ALS Vial  : 89   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:05:21 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title  :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(1) Tetrachloro-m-xylene (S)

2.936min 18.737 ppb

response 644731274

(1) Tetrachloro-m-xylene #2 (S)

3.612min 19.024 ppb

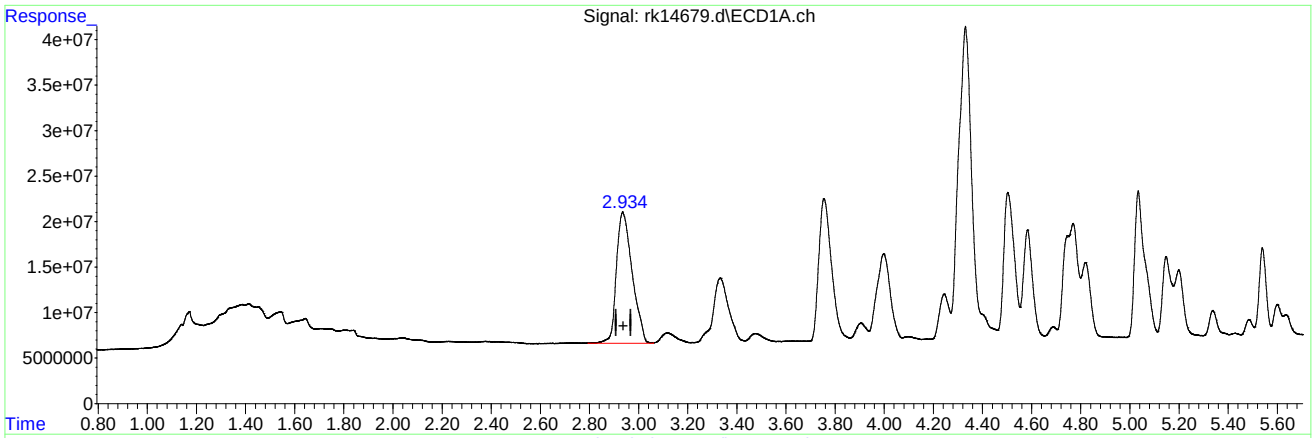
response 1800748629

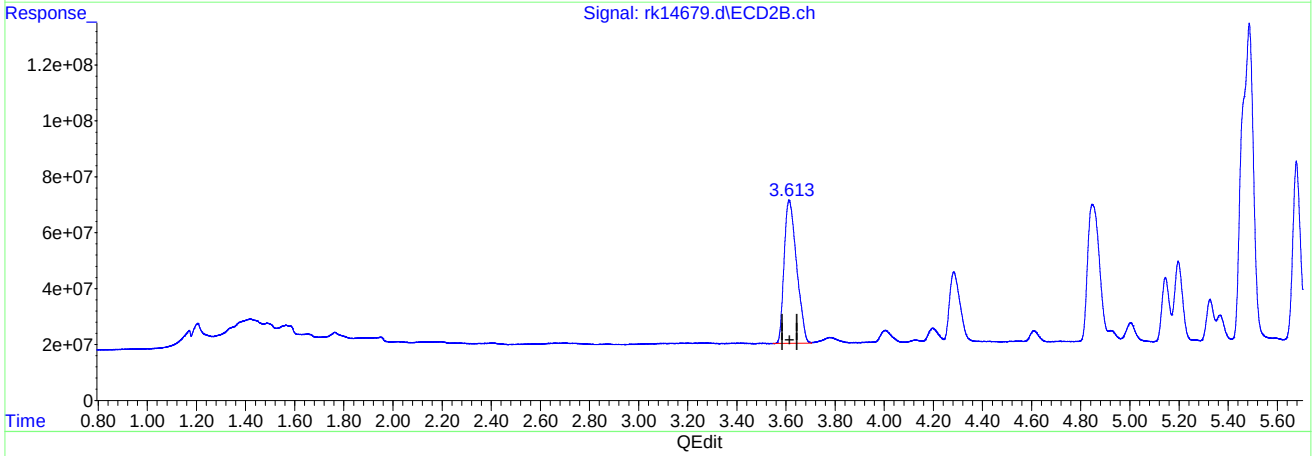
(+) = Expected Retention Time

rkpcb339.m Wed Aug 17 16:05:44 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\rk361\
Data File : rk14679.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 17 Aug 2022  11:12 am
Operator  : chorngli
Sample    : cc339-500
Misc      : op41257,grk361,15.0,,,10,1
ALS Vial  : 89   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:05:21 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title  :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(1) Tetrachloro-m-xylene (S)

2.934min 18.723 ppb m

response 644251637

(1) Tetrachloro-m-xylene #2 (S)

3.612min 19.024 ppb

response 1800748629

(+) = Expected Retention Time

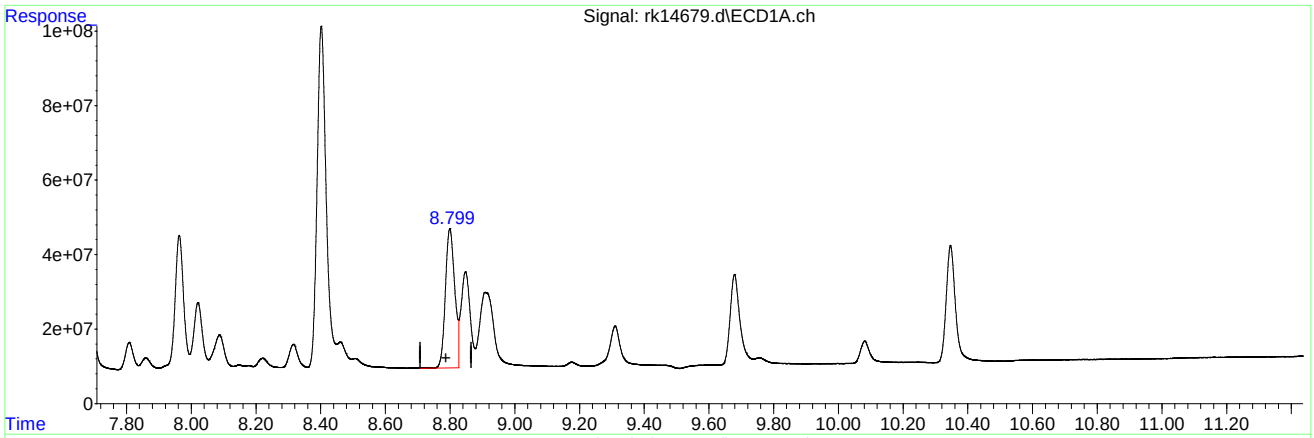
rkpcb339.m Wed Aug 17 16:05:49 2022

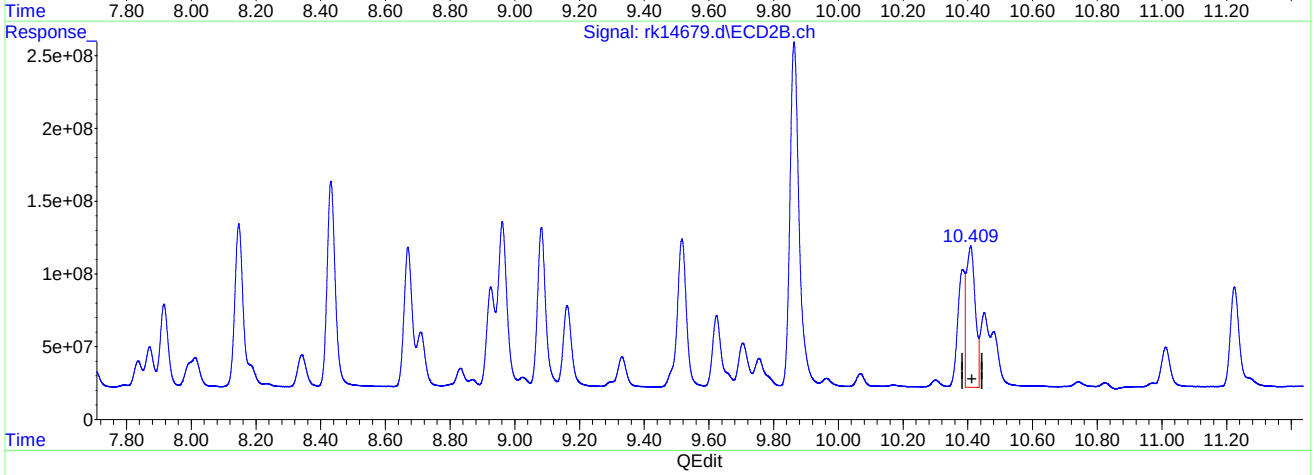
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14679.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 11:12 am
Operator : chorngli
Sample : cc339-500
Misc : op41257,grk361,15.0,,,10,1
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:05:21 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E

8.800min 182.863 PPB

response 752486881

(40) AR1260-E #2

10.409min 203.178 PPB

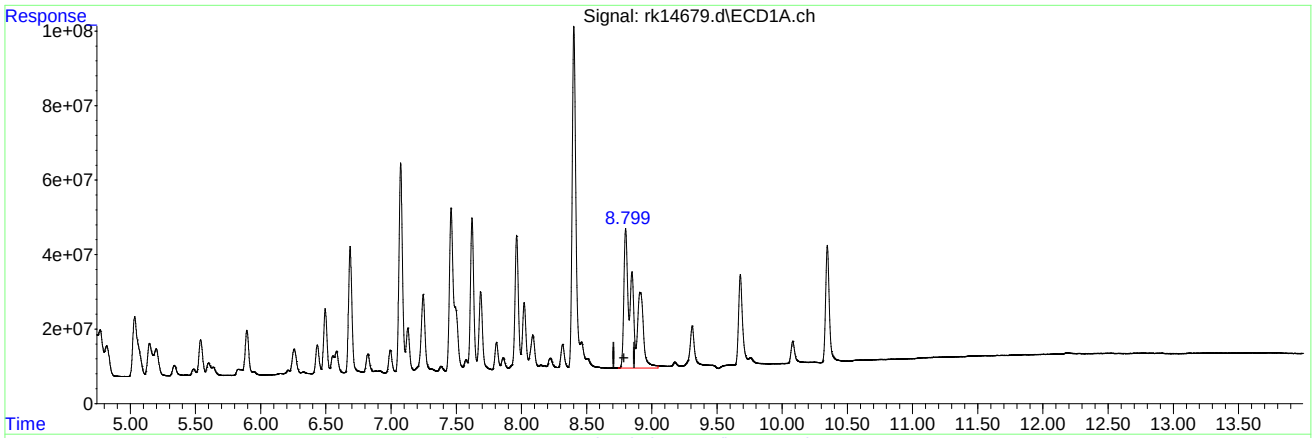
response 1851809987

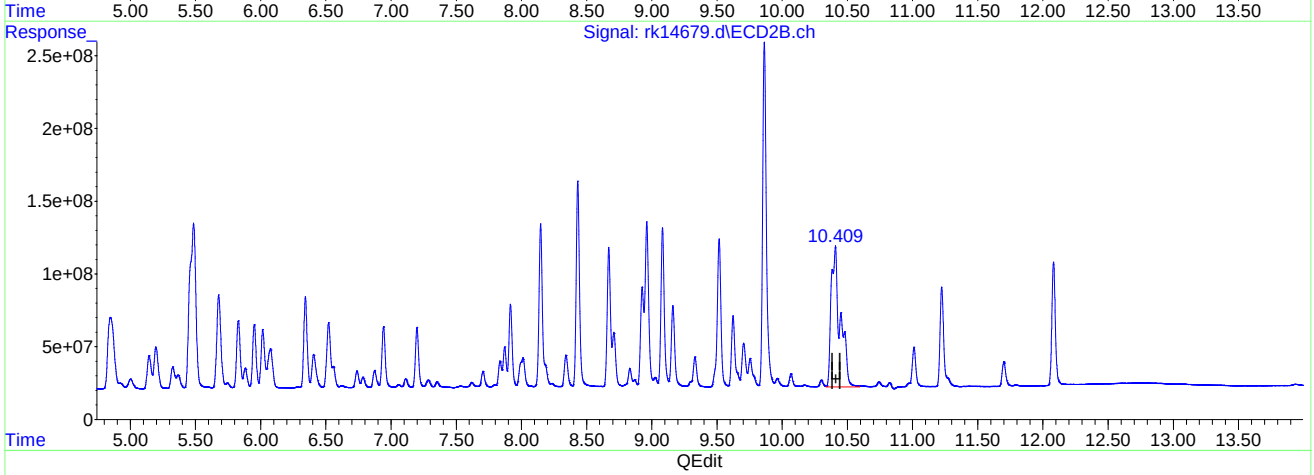
(+) = Expected Retention Time

rkpcb339.m Wed Aug 17 16:07:31 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\rk361\
Data File : rk14679.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 17 Aug 2022  11:12 am
Operator  : chorngli
Sample    : cc339-500
Misc      : op41257,grk361,15.0,,,10,1
ALS Vial  : 89   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:05:21 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title  :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(40) AR1260-E

8.799min 465.030 PPB m

response 1913615782

(40) AR1260-E #2

10.409min 511.311 PPB m

response 4660201969

(+) = Expected Retention Time

rkpcb339.m Wed Aug 17 16:08:34 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
08/18/22 15:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 2:49 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:24:07 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	2.941	3.617	1439.4E6	4069.0E6	41.833	42.988
	Spiked Amount 40.000			Recovery	=	104.58%	107.47%
51) S	Decachlor...	10.347	12.082	1236.3E6	2808.4E6	36.242	35.834m
	Spiked Amount 40.000			Recovery	=	90.60%	89.59%
	Target Compounds						
31)	AR1016-A	3.336	4.285	657.8E6	1563.3E6	1018.012	1104.269
32)	AR1016-B	3.759	4.848	1172.2E6	3433.6E6	1035.066	1071.042
33)	AR1016-C	4.334	5.487	2859.3E6	8063.1E6	1060.743	1132.370
34)	AR1016-D	4.506	5.678	1044.2E6	3054.8E6	1045.618	1123.049
35)	AR1016-E	5.036	6.343	1056.3E6	2451.4E6	1036.673	1106.109
36)	AR1260-A	7.074	8.432	2268.8E6	5178.7E6	1000.574	1100.290
37)	AR1260-B	7.622	9.082	1729.2E6	4014.2E6	1004.242	1059.013
38)	AR1260-C	7.964	9.516	1473.4E6	4110.2E6	958.732	996.757
39)	AR1260-D	8.402	9.864	3845.9E6	9054.1E6	985.529m	1023.669
40)	AR1260-E	8.798	10.408	4057.4E6	8708.0E6	985.990m	955.434m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.6.52

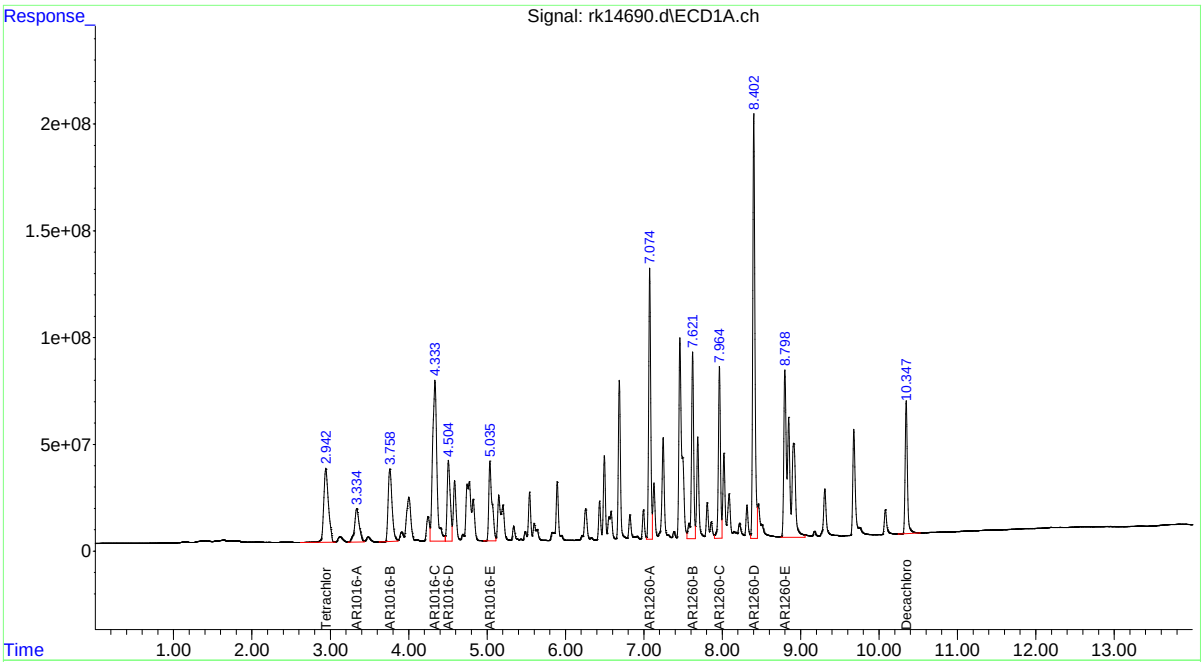
9

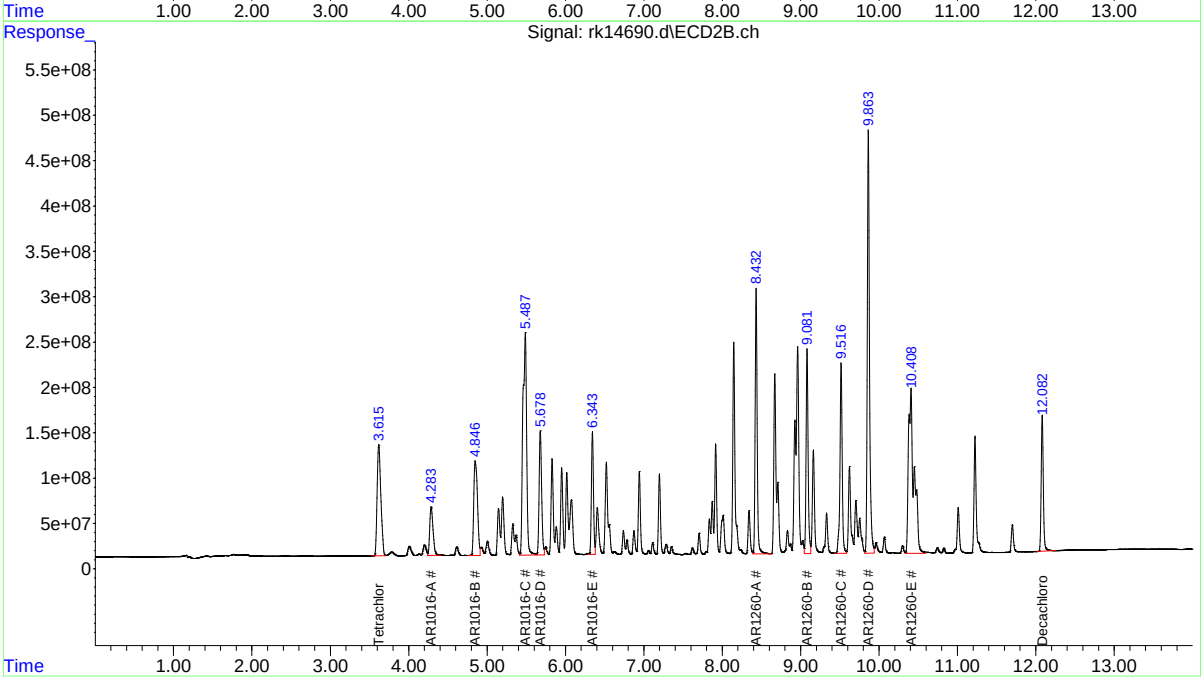
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 2:49 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:24:07 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integration Approval Summary

Sample Number:	GRK361-CC339	**Method:**	SW846 8082A
Lab FileID:	RK14690.D	**Analyst approved:**	08/18/22 15:36 Gwendolyn Burns
Injection Time:	08/17/22 14:49	**Supervisor approved:**	08/18/22 15:41 Gwendolyn Burns

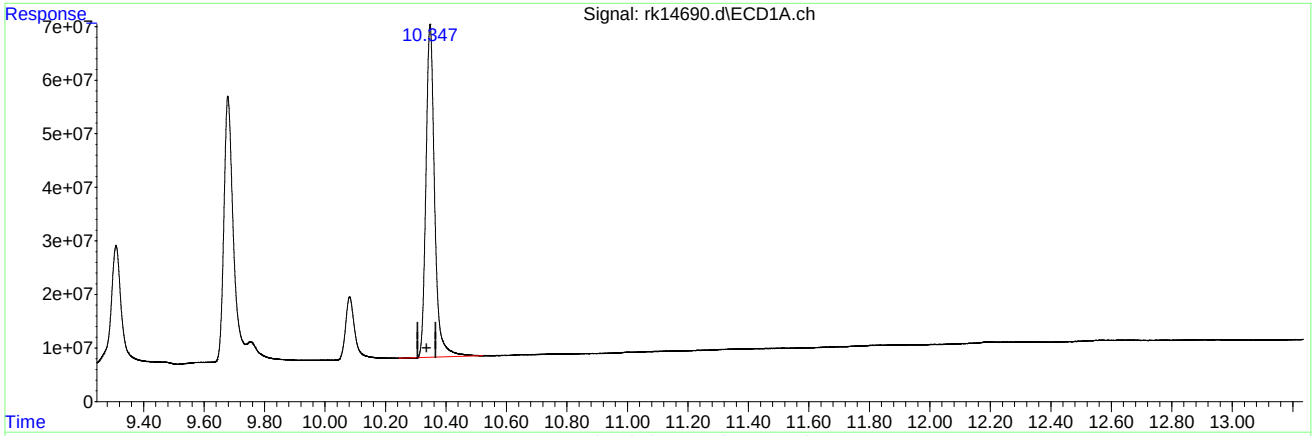
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-D		1	8.40	Poorly defined baseline
AR1260-E		1	8.80	Poorly defined baseline
AR1260-E		2	10.41	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	12.08	Poorly defined baseline

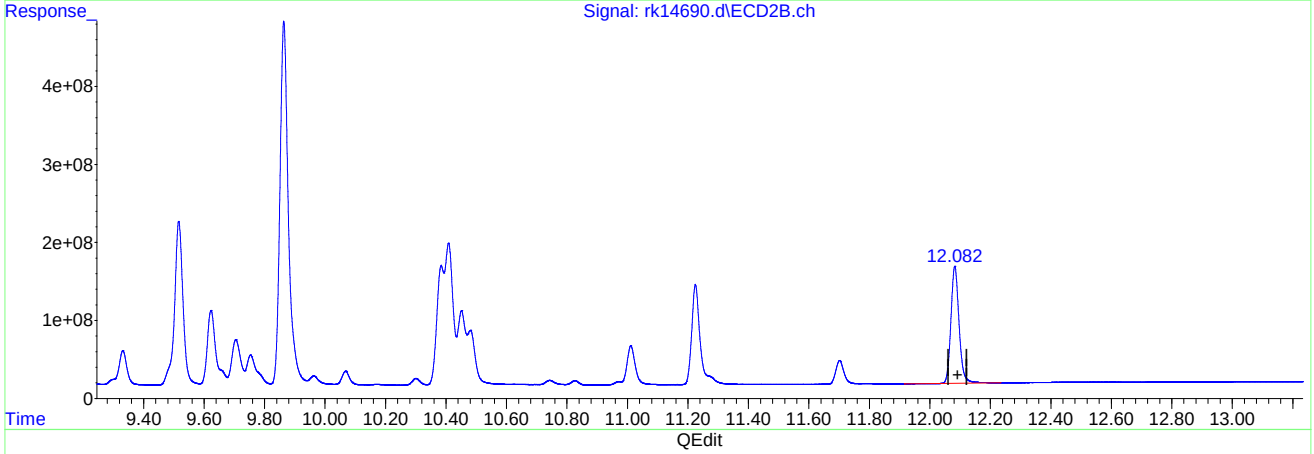
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 2:49 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:23:03 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(51) Decachlorobiphenyl (S)

10.347min 36.242 ppb

response 1236324748

(51) Decachlorobiphenyl #2 (S)

12.083min 35.507 ppb

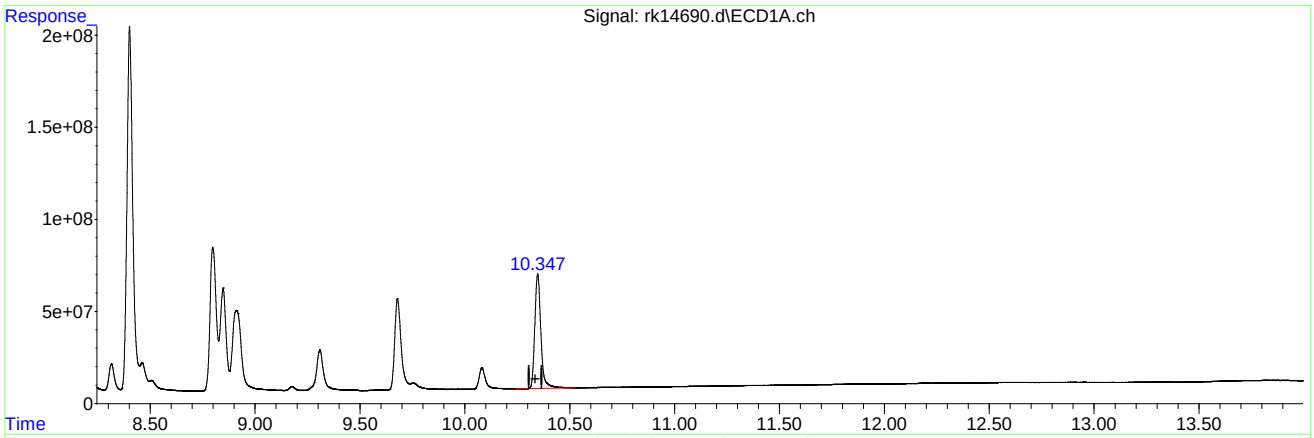
response 2782717073

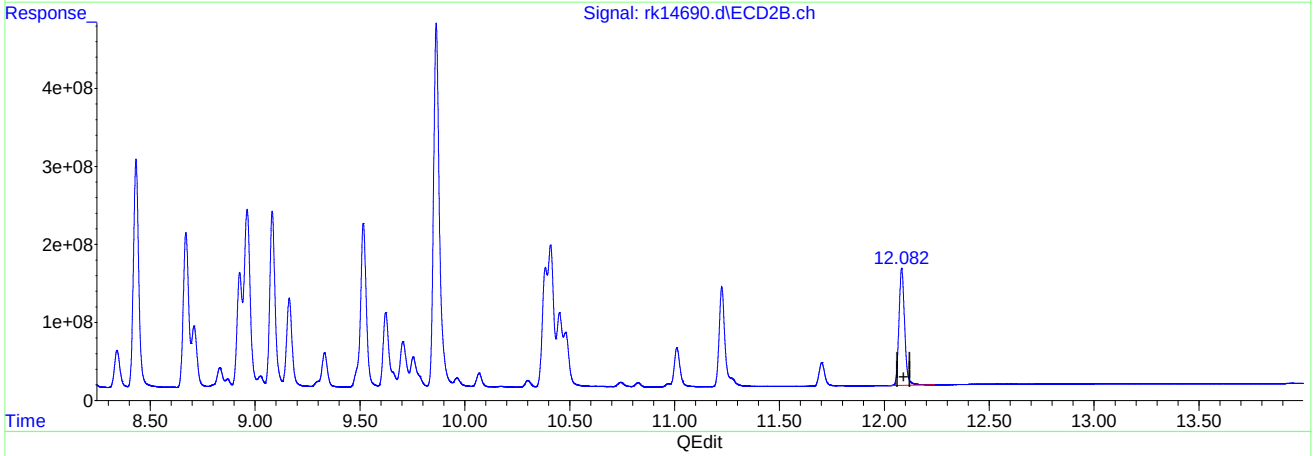
(+) = Expected Retention Time

rkpcb339.m Wed Aug 17 16:23:30 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 17 Aug 2022   2:49 pm
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41180,grk360,15.0,,,10,1
ALS Vial  : 96   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:23:03 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title  :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(51) Decachlorobiphenyl (S)

10.347min 36.242 ppb

response 1236324748

(51) Decachlorobiphenyl #2 (S)

12.082min 35.834 ppb m

response 2808400260

(+) = Expected Retention Time

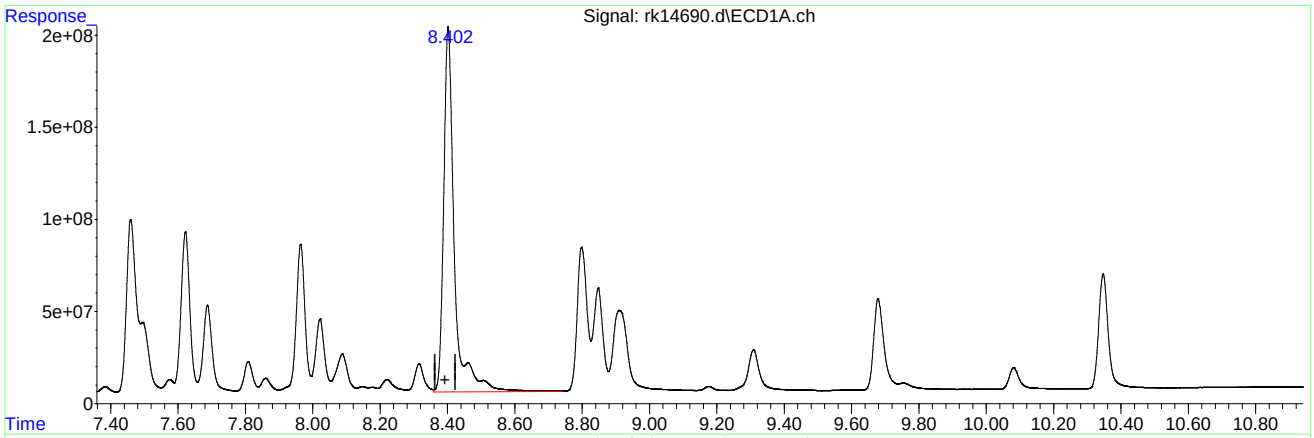
rkpcb339.m Wed Aug 17 16:23:37 2022

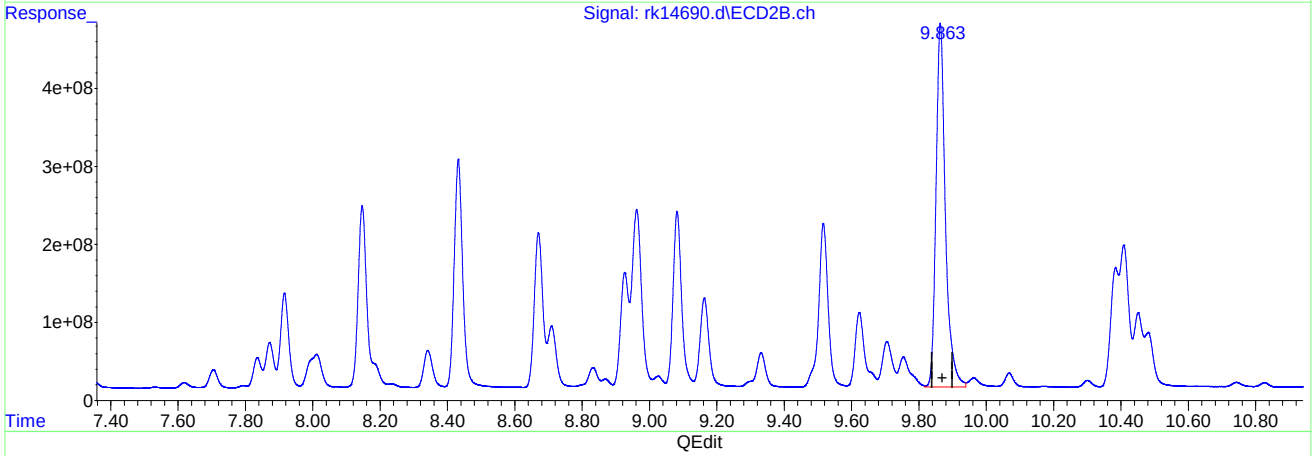
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 2:49 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:23:03 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(39) AR1260-D

8.402min 1120.609 PPB

response 4373077558

(39) AR1260-D #2

9.864min 1023.669 PPB

response 9054076630

(+) = Expected Retention Time

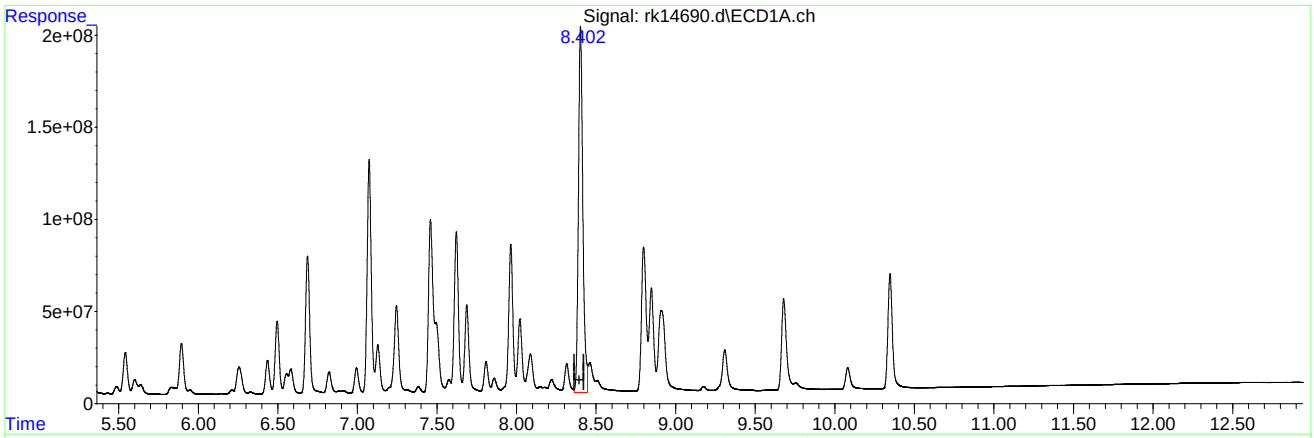
rkpcb339.m Wed Aug 17 16:23:46 2022

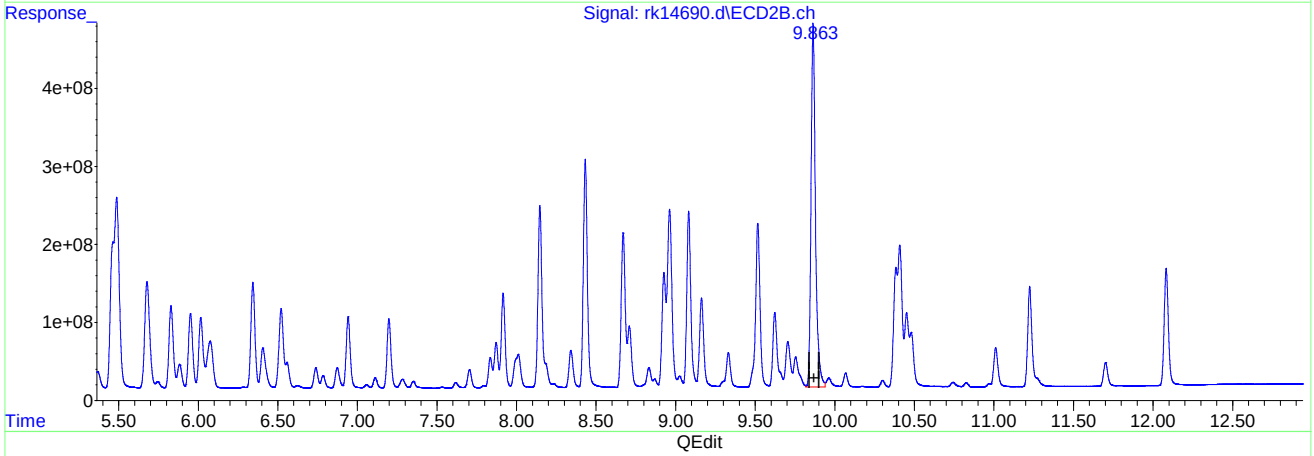
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 2:49 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:23:03 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(39) AR1260-D

8.402min 985.529 PPB m

response 3845942435

(39) AR1260-D #2

9.864min 1023.669 PPB

response 9054076630

(+) = Expected Retention Time

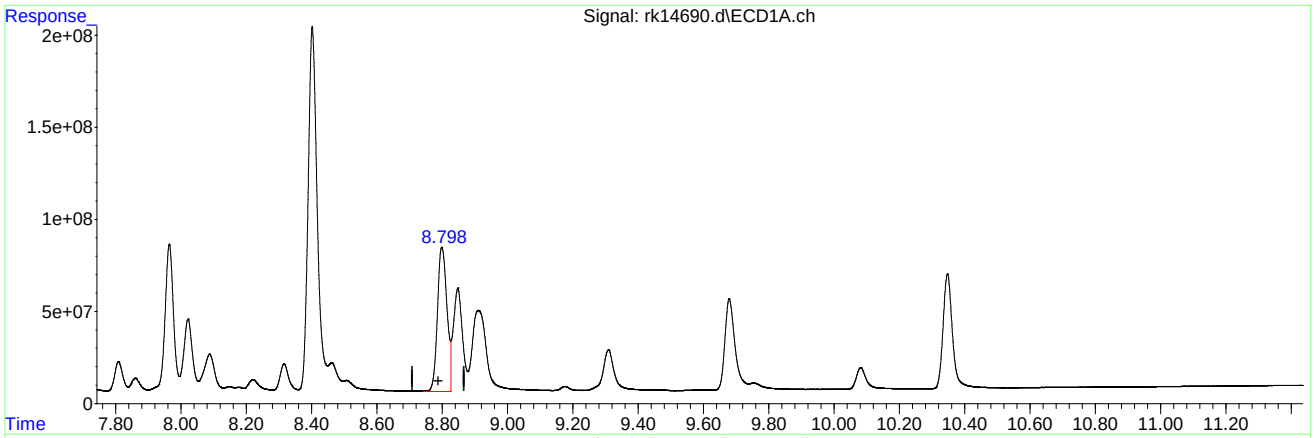
rkpcb339.m Wed Aug 17 16:23:55 2022

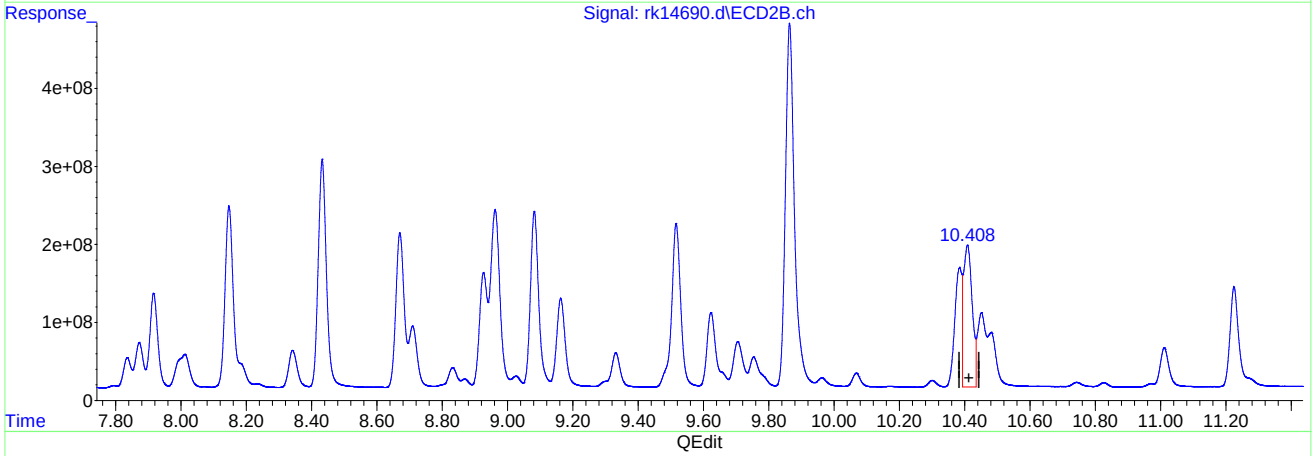
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Aug 2022 2:49 pm
Operator : chorngli
Sample : cc339-1000
Misc : op41180,grk360,15.0,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:23:03 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





QEdit

(40) AR1260-E

8.799min 388.168 PPB

response 1597323359

(40) AR1260-E #2

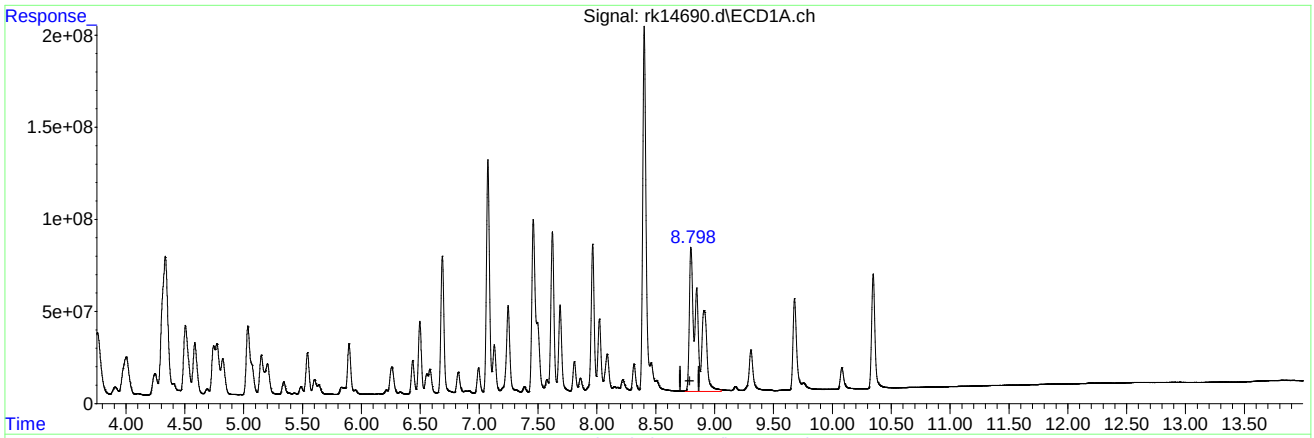
10.409min 372.865 PPB

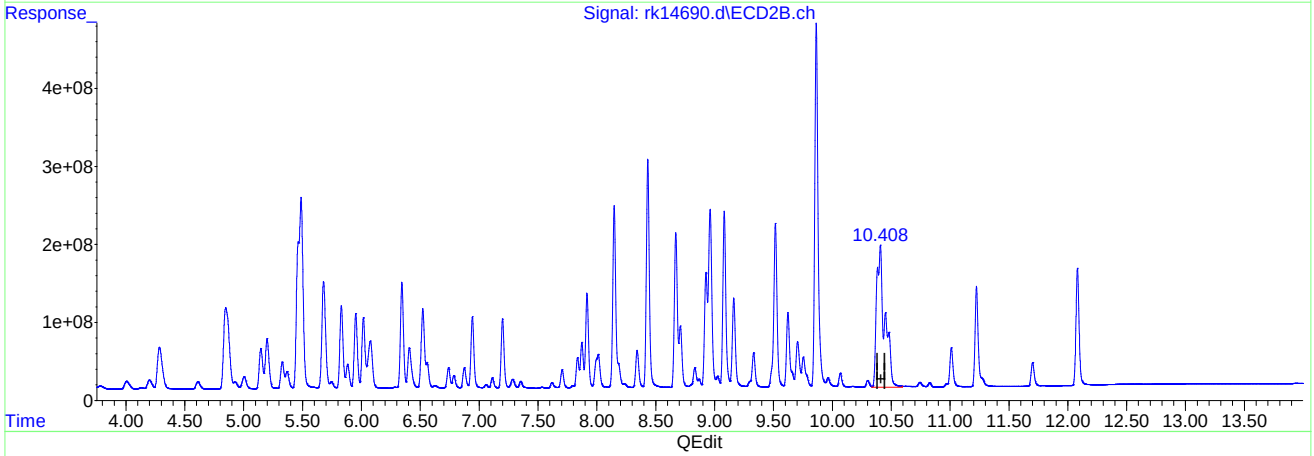
response 3398379828

(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\rk361\
Data File : rk14690.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 17 Aug 2022   2:49 pm
Operator  : chorngli
Sample    : cc339-1000
Misc      : op41180,grk360,15.0,,,10,1
ALS Vial  : 96   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 17 16:23:03 2022
Quant Method : C:\msdchem\1\methods\rkpcb339.m
Quant Title  :
QLast Update : Tue Jul 26 23:06:43 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul
Signal #1 Phase : ZBCLP-1           Signal #2 Phase: ZBCLP-2
Signal #1 Info  : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)
```





QEdit

(40) AR1260-E

8.798min 985.990 PPB m

response 4057382533

(40) AR1260-E #2

10.408min 955.434 PPB m

response 8708043411

(+) = Expected Retention Time

rkpcb339.m Wed Aug 17 16:24:10 2022

JUJ

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G2Y4195

Date: 3/15/22

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Standard Data

	Lot #	Description	Conc.
SV	21-2835-117A	DRO Std	25 ppm
	-117B		50
	-117C		100
	-117D		250
	-117E		500
	-117F		1000
	-117G		2500

Standard Data

	Lot #	Description	Conc.
SV	21-2835-117H	DRO Std	5000 ppm
	-118A		10000
	-118B		50000
OP	21-2630-134	DRO 2nd Source	1000
SV	21-2783-131	IB	50
	-132	RT Window	250
	215924	dcm (Fisher)	—

Columns: Rxi 5silms

Method DRO

Initial Cal. Method DRO2Y4195

Injection Volume: 1.0uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 3/24/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	2y107724	IB				1				OK	
	725	RT				2				OK	
	726	IC4195-25				6				OK	
	727	-50				7				OK	
	728	-100				8				OK	
	729	-250				9				OK	
	730	-500				10				OK	
	731	ICC4195-1000				11				OK	
	732	IC4195-2500				12				OK	
	733	-5000				13				OK	
	734	-10000				14				OK	
	735	-50000				15				OK	
	736	ICV4195-1000				16				OK	

TL 3/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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SGS

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G2Y4272

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Date: 8/10/22

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 22-2928-15A	DRO Std	500 ppm
·15B	↓	1000 ppm
·11	RT Window	250 ppm
·12	IB	50 ppm
222605	dcm (Fisher)	—

Columns: Rxi5Silms

Method DRO

Initial Cal. Method DRO2y4195

Injection Volume: 1.0uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 8/22/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	2y109587	CL 4195-500				3			/	ok	
	586	RT				2			/	ok	
	589	IB				1			/	ok	
	590	DP41 70-MB1	41170	DRO		22			/	ok	
	591	-BS1				23			/	ok	
	592	- BS D				24			/	ok	
	593	JD49478-1				25			/	ok	
	594	-2				26			/	ok	
	595	JD49400-1				27			/	ok	RR 1:10
	596	JD49450-3				28			/	ok	
	597	Dcm				99				ok	
	598	cc4195-1000				4			/	ok	
	~~599~~ 600	IB				1			/	ok	
	2y109~~587~~	JD49450-4	41170			29			/	ok	
	601	JD49450-5				30			/	ok	
	602	-6				31			/	ok	
	603/604	Dcm				99				ok	
	605	CC4195-500				3			/	ok	
	606	IB				1			/	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09

Rev. Date: 5/25/17

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G2Y 4273

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Date: 8/14/22

Columns: Rxi5Silms

Method DRO

Initial Cal. Method DRO2Y4195

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 22-2428/5A	DRO Std	500 ppm
-5B	↓	1000 ppm
-11	RT Window	250 ppm
-12	IB	50 ppm
222606	dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 8/22/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	2Y109 607	CC4195-1000				4			/	OK	
	608	IB				1			/	OK	
	609	RT				2			/	OK	
	610	OP41225-MB1	41225	DRO	S	6			/	OK	
	611	-BS1				7			/	OK	
	612	-BSD				8			/	OK	
	613	JD49622-1				9			/	OK	
	614	OP41225-MS				10			/	OK	
	615	-MSD				11			/	OK	
	616	JD49622-2				12			/	OK	
	617	-3				13			/	OK	
	618	CC4195-500				3			/	OK	
	619	IB				1			/	OK	
	620	JD49733-1	41225	DRO	S	14			/	OK	
	621	-2				15			/	OK	
	622	-3				16			/	OK	
	623	-4				17			/	OK	
	624	-5				18			/	OK	
	625	-6				19			/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Batch ID: G2Y4273

Date: 8/14/22

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Columns: Rxi5Silms

Method DRO

Initial Cal. Method DRO2Y4195

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV22-2428-15A	DRO Std	500 ppm
-13	↓	1000 ppm
-11	RT Window	250 ppm
-12	IB	50 ppm
222606	dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YL

Date: 8/22/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	2y109626	JD49400-1	41170	DRO	S	20	10		/	OK	
	627	dcm				99				OK	
	628	CC4195-1000				4			/	OK	
	629	IB				1			/	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

TL 8/22

Form: OR010-09
Rev. Date: 5/25/17

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G2z3259

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Date: 11/23/21

Columns: Rxi5silms

Method: TL 11/23 ~~ERH~~ DRO

Initial Cal. Method: DRO 2z3259

Injection Volume: 1.0µL

Date Archived:

Standard Data

Lot #	Description	Conc.
21-2835-53A	DRO Std	25 ppm
-53B		50 ppm
-53C		100 ppm
-53D		250 ppm
-53E		500 ppm
-53F		1000 ppm
-53G		2500 ppm

Standard Data

Lot #	Description	Conc.
21-2835-53H	DRO Std	5000ppm
-54A		10000 ppm
-54B		50000 ppm
21-2636-134	DRO Spike	1000 ppm
21-2783-131	IB	50 ppm
-132	RT Window	250 ppm
210265	dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 12/15/21

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	2z84950	IB				51				ok	
	951	RT				2				ok	
	952	IC3259-25				56				ok	
	953	-50				57				Not using	Bad injection
	954	-100				58				ok	
	955	-250				59				ok	
	956	-500				60				ok	
	957	ICC3259-1000				61				ok	
	958	IC3259-2500				62				Not using	Bad injection
	959	-5000				63				ok	
	960	-10000				64				ok	
	961	-50000				65				ok	
	962	ICV3259-1000				66				ok	
	959A	IC3259-50				57				ok	Run before 2z84960
	959B	-2500				62				ok	

TL 11/24

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed; dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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SGS

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G2z3372

Print Analyst Name: Thomas Lally

Date: 8/10/22

Analyst Signature: TL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 22-292815A	DRO Std	500 ppm
·15	↓	1000 ppm
·11	RT Window	250 ppm
·12	IB	50 ppm
222605	dcm (Fisher)	—

Columns: Rxi5silms

Method DRO

Initial Cal. Method DRO2z3254

Injection Volume: 1.0uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YL

Date: 8/22/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	2z87587	CC 3259-1000				4			/	OK	
	588	IB	1-8/10			51			/	OK	
	589	RT IB				2			/	OK	
	590	JD49146-1	41078	DRO		73	5x		/	OK	
	591	OP41170-MB1	41170			22			/	OK	
	592	JD49405-1				74			/	OK	
	593	OP41170-MS				75			/	OK	
	594	-MSD				76			/	OK	
	595	JD49405-2				77			/	OK	
	596	-3				78			/	OK	
	597	Dcm				100				OK	
	598	cc3259-500				3			/	OK	
	599	IB				51			/	OK	
	2z87600	JD49450-7	41170			79 ~~52~~	T.P 8/10		/	OK	
	601	-8				80 ~~53~~			/	OK	
	602	-9				81			/	OK	
	603	-10				82			/	OK	
	604	Dcm				100				OK	
	605	cc 3259-1000				4			/	OK	
	606	IB				51			/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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SGS

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK339

Print Analyst Name: Charlie Lee

Analyst Signature: CL

Date: 7/25/2022

Columns: ZBCLP1/ZBCLP2

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.
SV 21-2835-138	Ar1016/1260	20 PPM
.140A	Ar1221/1254	1000 PPB
.140B	Ar1232/1262	
.140C	Ar1242/1268	
.140D	Ar1248	
SV 22-2928-10	IB	20 PPB

Standard Data

Lot #	Description	Conc.
SV 21-2835-141A	Ar1016/1260 2nd	1000 PPB
.141B	Ar1221/1254 2nd	
.141C	Ar1232/1262 2nd	
.141D	Ar1242/1268 2nd	
.141E	Ar1248 2nd	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 07/29/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK13406	IB				2				ok	
	407	IC339-50	Ar1016/1260	1st Source		80	400x ~~400x~~			ok	
	408	-250				81	80x ~~80x~~			ok	
	409	-500				82	40x ~~40x~~			ok	
	410	ICC339 1000				83	20x ~~20x~~	ok 07/29/22		ok	
	411	~~ICC339~~ -2000				84	10x ~~1x~~			ok	
	412	RK 07/29/22 -3000				85	150uL ~~1x~~ 1mL			ok	
	413	-5,000				86	4x ~~2x~~			ok	
	414	-10,000				87	2x			ok	
	415	IC339-1000	Ar1221/1254			88				ok.	
	416	IC339-1000	Ar1232/1262			89				ok	
	417	IC339-1000	Ar1242/1268			90				ok	
	418	IC339-1000	Ar1248			91				ok	
	419	ICV339-1000	Ar1016/1260	2nd Source		92				ok	
	420	ICV339-1000	Ar1221/1254			93				ok	
	421	ICV339-1000	Ar1232/1262			94				ok	
	422	ICV339-1000	Ar1242/1268			95				ok	
	423	ICV339-1000	Ar1248			96				ok	
	424	Test Mix				97				ok	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

SGS

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK355

Print Analyst Name: Charlie Lee

Analyst Signature: CL

Date: 8/11/22

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
CV 22-2928-138	Ar1016/1260	500 PPB
-138	↓	1000
-10	IB	20 ↓
MK080469	Hexane (Sigma) —	

Columns: ZBCLP1/ZBCLP2

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JL Date: 8/16/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14311 CL 8/11/22	jd49487·32	41164	8082	S	126				Not using	RR ; ECC ↓
	312	·33				127				↓	↓
	313	jd49050·9	41015	8082	S	128			/	OK	
	314	·10				129			/	OK	
	315	jd48982·1				130				RR	ECC ↓
	316	·2				131				↓	↓
	317	op41015·MS				132					
	318	·MSD				133					
	319	Hexane				1				OK	
	320	ECC339-500				134			↓	126: OK	1260, DCB ↓ both, Reinstalled, baked.
	320A	CC339·500				134			/	OK	
	321	iB				2			/	OK	
	322	jd48366·65	40825	8082	S	135	5		/	OK	
	323	·67				136	5		/	OK	
	324	·69				137	5		/	OK	
	325	·75				138	5		/	OK	
	326	·76				139	2		/	OK	
	327	·77				140	5X		/	OK	
	328	·78				141	5X		/	OK	
	329 330	hexane				1				OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09

Rev. Date: 5/25/17

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK355

Print Analyst Name: Charlie Lee

Analyst Signature: CL

Date: 8/11/22

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See P. 197	

Columns: ZBCLP1/ZBCLP2

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 8/16/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14331	CC339·1000				142			/	OK	
	332	rB				2			/	OK	
	333	jd48336.80	40825	8082	S	143	5		/	OK	
	334	·82				144	5		/	OK	
	335	·84				145	5		/	OK	
	336	jd49317-1	41128	RVE 8082	W	146			/	OK	Had TBA
	337	op41128-MB1				147			/	OK	↓
	338	·BS1				148			/	OK	↓
	339 340	hexane				1				OK	
	341	CC339·500				149			/	OK	
	342	1B				2			/	OK	
	343	jd49487-16	41163	8082	S	150			/	OK	Not Needed
	344	·17				3			/	OK	↓
	345	·18				4			/	OK	↓
	346	·19				5			/	OK	↓
	347	·20				6			/	OK	↓
	349 348 CL 349→350a	hexane ·15				8 1			/	OK OK	↓
	8/11/22 351	CC339·1000				7			/	OK	
	352	1B				2			/	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09

Rev. Date: 5/25/17

JUD

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK355

Print Analyst Name: TILAK PATEL

Date: 8/11/22

Analyst Signature: TP

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SW22.2029.13A	Arlo16/1260	500 ppb
.13B	↓	1000 ↓
.10	IB	20
MKCQ0969	Hexane (Sigma)	–

Columns: ZBCLPI / ZBCLPII

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JZ Date: 8/16/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14353	OP41180-MB1	41180	8082	S	9			/	OK	
	354	-BS1				10			/	OK	
	355	-MS				11			/	OK	
	356	-MSD				12			/	OK	
	357	JD49450-1				13			/	OK	
	358	-2				14			/	OK	
	359	JD49214-1				15			/	OK	RR5x
	360/361	Hex				1				OK	
	362	CC339-500				16			/	OK	DCB, Both
	363	IB				2			/	OK	
	364	JD49214-2	41180	8082	S	17				RR	BCC ↓
	365	-3				18				↓	↓
	366	-4				19					
	367	-5				20					
	368	-6				21					
	369	-7				22					
	370	JD49400-1				23					
	371/372	Hex				1				OK	
	373	CC339-1000				24			↓	NG	DCB, 1260 ↓ Both

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR01609

Rev. Date: 5/23/14

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK355

Print Analyst Name: TILAK PATEL

Analyst Signature: TP

Date: 8/11/22

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p. 1	

Columns: ZBCLPI / ZBCLPD

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JL Date: 8/16/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14374	JB				25	T.P 8/11			RR	BCC ↓
	375	JD49428-1	41180	8082	S	25				↓	↓
	376	-2				26					
	377	-3				27					
	378	-4				28					
	379	JD49580-1				29					
	380	-2				30					
	381	-3				31				Not Run	Sequence stopped
	382/383	Hex				1				OK	Re-installed / Baked out
	384	CC339-500				32			/	OK	
	385	JB				2			/	OK	
	386	JD49580-4	41180	8082	S	33			/	OK	
	387	OP41210-MB1	41210	8082	W	34			/	OK	
	388	-BS1				35			/	OK	
	389	-BSD				36			/	OK	
	390	JD49579-1				37			/	OK	
	391	JD49391-2				38			/	OK	
	392	OP41200-MB1	41200	8082	W	39			/	OK	
	393/394	Hex				1				OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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SGS

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK335

Print Analyst Name: TILAK PATEL

Analyst Signature: ~~ZBCLPI/ZBCLPII~~ T.P

Date: 8/11/22

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p.1	

Columns: T.P 8/11 ~~8082~~ ZBCLPI/ZBCLPII

Method R8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 ul

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 8/16/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14395	CC339-1000				40			/	OK	
	396	IB				2			/	OK	
	397	OP41200-BS1	41200	8082	W	41			/	OK	
	398	-BSD				42			/	OK	
	399	J049606-1				43			/	OK	
	RK14400	JD49602-1				44			/	OK	
	401	J049616-1				45			/	OK	
	402/403	Hex				1				OK	
	404	CC339-500				46			/	OK	
	405	IB				2			/	OK	
										CL	8/12/22

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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JUJ

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK359

Print Analyst Name: Charlie Lee

Date: 8/15/22

Analyst Signature: CL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SO 22.2922.134 24A	A1016/1260	500 PPb
.24B	↓	1000 PPb
.10	IB	20 PPb
223504	hexane (fisher)	–

Columns: ZBCLP1/ZBCLP2

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: CL Date: 8/17/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14522	CC339-500				129			/	ok	
	523	IB				2				ok	
	524	OP41247-MB1	41247	8082 608	W	129			/	ok	also OP41247A
	525	-BS1				130			/	ok	
	526	-BSD				131			/	ok	↓
	527	jd 49603-1	41247A	608	W	132			/	ok	
	528	620-2	1	1		133			/	ok	
	529	da 47757-1	41247	8082	W	134			/	ok	
	530	-2				135			/	ok	
	531 532	hexane				1				ok	
	533	CC339-1000				136				ok	
	534	IB				2				ok	
	535	JD49649-1	41247	8082 608	W	137			/	ok	
	536	OP41245-MB1	41245	8082 608 LL	W	138			/	ok	
	537	-BS1		↓		139			/	ok	
	538	-BSD				140			/	ok	
	539	LA81785-1				141			/	ok	
	540	JD49389-1				142			/	ok	
	541	-2				143				RR	w/1248 ical

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09

Rev. Date: 5/25/17

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9.7.8

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JUJ

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK359

Print Analyst Name: TILAK PATEL

Analyst Signature: T. P

Date: 8/15/22

Columns: ZBCLPI / ZBCLPII

Method 8082

Initial Cal. Method RKPCB-339

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p. 19	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: CZ Date: 8/17/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14542	Hex				1				ok	
	543	Hex				1				ok	
	544	CC 339.500				144				ok	
	545	IB				2				ok	
	546	JD 49389-3	41245	8082 608 LL		145			/	ok	
	547	-4				146				RR	w/ 1248 ical
	548	JD49788-1				147			/	ok	
	549	-2				148				XH	XH
	550	-3				149			/	ok	
	551	-4				150				XH	X
	552	OP41264-MB1	41264	8082 Soxhlet	S	3 ~~151~~	T.P 8/15		/	ok	
	553/554	Hex				1				ok	
	555	CC.339-1000				4 ~~152~~	T.P 8/15			ok	
	556	IB				2				ok	
	557	OP41264-BS1	41264	8082 Soxhlet	S	5			/	ok	
	558	-MS				6				RR	need TRA
	559	-MSD				7				RR	
	560	JD49731-1				8			/	ok	
	561	-2				9				RR	need TBΔ

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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JG3

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK359

Print Analyst Name: TILAK PATEL

Date: 8/15/22

Analyst Signature: T. P

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p. 19	

Columns: ZBCLPI/ZBCLPII

Method 8082

Initial Cal. Method RKPCB.339

Injection Volume: 1.0 uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 08/23/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14562	J049731-3	41264	8082 Soxhlet	S	10			/	ok	
	563	-4		↓		11			/	on	5X
	564/565	Hex				1				ok	
	566	CC.339-500				12				ok	
	567	IB				2				ok	
	568	JD49731-8	41264	8082 Soxhlet	S	13			/	on	5X
	569	-9		↓		14			/	on	10X
	570	-12				15			/	ok	
	571	-13				16			/	ok	
	572	-17				17			/	on	need 5X
	573	-18				18			/	ok	
	574	-22		↓		19			/	ok	
	575/576	Hex				1				ok	
	577	CC339 1000				20				ok	
	578	IB				2				ok	
	579	JD49731-23	41264	8082 Soxhlet	S	21				RR	need TBA
	580	-5		↓		22				↓	XH
	581	-6				23					
	582	-7		↓		24				↓	↓

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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SGS

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK 359

Print Analyst Name: TILAK PATEL

Date: 8/15/22

Analyst Signature: T. P

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See P. 69	

Columns: ZB CLPI / ZB CLPII

Method 8082

Initial Cal. Method RKPCB-339

Injection Volume: 1.0 uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 08/23/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14583	JD49731-10	41264	8082 Soxhlet	S	25				XH	
	584	-11		↓		26				↓	
	585	-14		↓		27				↓	
	586/587	Hex				1				OK	
	588	CC339-500				28			↓	NG	1260↓ DCB↓ Beta
	589	IB				2				OK	
	590	JD49731-15	41264	8082 Soxhlet	S	29				RR	
	591	-16		↓		30				Not Run	Sequence Cut due to BCC↓
	592	OP41231-MB1	41231	8082 Sox WIPE	S	31				↓	↓
	593	-BS1		↓		32				↓	↓
	594	-BSD		↓		33				↓	↓
	595	JD49698-5		↓		34				↓	↓
	596	JD49731-27		↓		35				↓	↓
	597/598	Hex				1				OK	
	599	CC339-1000				36			/	OK	
	RK14600	IB				2				OK	
	601	OP41230-MB1	41230	8082 Sox	S	37			/	OK	
	602	-BS1				38			/	OK	
	603	-MS				39			/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G RK 359

Print Analyst Name: TILAK PATEL

Date: 8/15/22

Analyst Signature: T. P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p. 19	

Columns: ZBCLPI / ZBCLPII

Method 8082

Initial Cal. Method RKPCB-339

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 08/23/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14604	OP41230-MS	41230	8082 SOX	S	40			/	ok	
	605	JD4698-2				41				need TBA	need TBA
	606	-7				42					
	607	-8				43					
	608/609	Hex				1				ok	
	610	CC339-500				44			/	ok	
	611	IB				2			/	ok	
	612	JD49698-9	41230	8082 SOX	S	45			/	ok	
	613	-12				46			/	ok	
	614	-13				47			/	ok	
	615	-19				48			/	ok	
	616	-20				49			/	ok	
	617	-21				50			/	ok	
	618	-22				51			/	ok	
	619/620	Hex				1				ok	
	621	CC339-1000				52			/	ok	
	622	IB				2			/	ok	
	623	JD49698-1	41230	8082 SOX	S	53				need TBA	need TBA
	624	JD49400-1	41180	8082		54	10x		/	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-09

Rev. Date: 5/25/17

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK 359

Print Analyst Name: TILAK PATEL

Date: 8/15/22

Analyst Signature: T.P

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p. 19	

Columns: ZBCLPI/ZBCLPII

Method 8082

Initial Cal. Method RKPCB-339

Injection Volume: 1.0 uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 08/23/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14625	JD49214-2	41180	8082		55	5x		✓	ok	
	626	-1				56	5x			not used	
	627/628	Hex				1				ok	
	629	CC339-500				57			✓	ok	
	630	IB				2			✓	ok	
											CL 8/17/22

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09

Rev. Date: 5/25/17

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SGS

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK361

Print Analyst Name: Charlie Lee

Date: 8/17/22

Analyst Signature: CL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 22-2928-24A	AR1016/1260	500 PPB
.24B	↓	1000
.10	IB	20 ↓
223504	Hexane (Fisher)	—

Columns: ZBCLP1/ZBCLP2

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: CL 8/17

Date: 08/23/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14679	cc339.500				89 ~~88~~			✓	ok	
	680	IB				2				ok	
	681	jd49487.10	41163	8082	S	95	5		✓	ok	
	682	jd49736.13	41257	8082	S	90			✓	ok	
	683	.14				91			✓	ok	
	684	.15				92			✓	ok	
	685	jd49740.1				93			✓	ok	
	686	op41180.MB1	41180	8082	S	94			✓	ok	Had TBA
	687	.BS1				95				ok	↓
	688 689	hexane				1				ok	
	690	cc339.1000				96				ok	
	691	IB				2				ok	
	692	jd49580.3	41180	8082	S	97			✓	ok	Had TBA
	693	.4				101 ~~9~~			✓	ok	
	694	jd49832.2	41267	wipe 8082	S	102			✓	ok	
	695	.3				103			✓	ok	
	696	.4				104			✓	ok	
	697	op41267.MB1				105			✓	ok	
	698	.BS1				106			✓	ok	↓

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK361

Print Analyst Name: Charlie Lee

Date: 8/17/22

Analyst Signature: CL

Columns: ZBCLP1/ZBCLP2

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 µL

Date Archived:

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	See P. 37	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 08/23/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	RK14 699 700	hexane				1				ok	
	701	CC339.500				107				ok	
	702	iB				2				ok	
	703	DA47758-1	41210	8082	W	108				RR	Need TBA
	704	·2				109			/	ok	
	705	31 CL 8/17 OP41270-BS1	41231	Sox Wipe 8082	S	110			/	ok	
	706	OP41231·BSD				111			/	ok	
	707	·MB1				112			/	ok	
	708	jd49698·5				113			/	ok	
	709	jd49731·27				114			/	ok	
	710 711	hexane				1				ok	
	712	CC339.1000				115				ok	
	713	iB				2				ok	
	Not using	DA47758·1	41210	8082	W					Not Run	
	↓	·2								↓	
		OP41231·BS1	41231	8082	S						
		·BSD									
		·MB1									
		jd49698·5									

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GRK361

Print Analyst Name: Charlie Lee

Date: 8/17/22

Analyst Signature: CL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p. 37	

Columns: ZBCLP1/ZBCLP2

Method 8082

Initial Cal. Method RKPCB339

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 08/23/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	Not Using	jd49731.27	41231							Not Run	
		hexane									
		CC339.1000									
		IB									
	RK14714	jd49731.15	41264	Soxhlet 8082	S	116				Not Needed	Not in LIMS
	715	.16				117			✓	ok	
	716	.2				118			✓	ok	Had TBA
	717	.23				119			✓	ok	
	718	op41264.MS				120			✓	ok	
	719	.MSD				121			✓	ok	
	720	.MB1				122			✓	ok	
	721	.BS1				123			✓	ok	
	722	hexane				1				ok	
	723	CC339.500				124				ok	
	724	IB				2				ok	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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LOGBOOK ID:

SOLID/LIQUID EXTRACTION

Date Started: 08/09/22 Time Started: 16:48
Date Finished: 8/10/22 Time Finished: 12:50

Sonication
SW3550C / CLP / other_____

Microwave
SW3546 / other ✓

Pressurized Fluid (ASE)
SW3545A / CLP / other_____

Soxhlet
SW3540C / other_____

Waste Dilution
SW3580A_____

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

HT: 8/16
Due: 8/10

	Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol (mL)	Comments
	MB1	DRO			sand	10.0			12		clear	1.0	
	BS1				sand	10.0					clear	1.0	
	JD49405-1 MS		1		mud	12.8		✓			clear	1.0	
	MSD		1		mud	10.3		✓			clear	1.0	
	BS	D			sand	10.0					clear	1.0	
	MS												
	MSD												
1	JD49405-1	DRO	1		mud	10.1		✓	12		clear	1.0	
2	-2		1		sand	11.4		✓			clear	1.0	
3	-3		1		sand	11.1		✓			brown	1.0	•
4	JD49450-3		1		rock	10.9		✓			brown	1.0	•
5	-4		1		soil	10.8		✓			brown	1.0	•
6	-5		1		soil	10.1		✓			brown	1.0	•
7	-6		1		soil	10.8		✓			brown	1.0	•
8	-7		1		rock	10.8		✓			brown	1.0	•
9	-8		1		rock	10.4		✓			brown	1.0	
10	-9		1		soil/rock	10.1		✓			brown	1.0	•
11	-10		1		soil	12.9		✓			brown	1.0	•
12	JD49478-1		1		sand	10.0		✓			yellow	1.0	
13	-2		2		sand	10.9		✓			brown	1.0	•
14	JD49400-1		4		tar	11.05		✓			brown	~~1.0~~ 10	•X
15													
16													
17													
18													
19													
20													

COMMENTS: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:

• per matrix X- final volume not 10, per matrix, didn't go down

BATCH # GC OP41170 RACK# R-57

Weighed by: TL
Extracted by: OA, ED
Concentrated by: JH
Final Vol. Top-up:
Vialed by: EB

Supervisor Review: TG 8/10/22

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	1	65	-	-	OK
Buchi Chiller	B-1	16.1	-	-	OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)	2	35.1	+1	36.1	OK
Balance	B70	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
DRO	212742-31	50	1.0

WITNESS SIGN: SA SPIKE SIGN: ED

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
DRO	212742-54	1,000	1.0

WITNESS SIGN: SA SPIKE SIGN: ED

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/	2226016	Fisher	30.0
ACETONE	220513	Fisher	
METH CHLOR	2226016	Fisher	VAR
HEXANE			

REAGENT	LOT #	BAKE BATCH #	BRAND
HYDROMATRIX	1098004	8-3-22	Agilent
SODIUM SULFATE	214445	8-8-22	Fisher
FILTER PAPER	174855833		Fisher

MATRIX	LOT #	BAKE BATCH #	BRAND
SAND	26A210911605A	7-15-22	Fisher
vials	220162000		Agilent

SGS
Form: OP002-13
Rev. Date: 8/2/17

LOGBOOK ID:

Pest / PCB Extraction Log - Soils

Date Started: 8/10/22 Time Started: 16:00
Date Finished: 8/11/22 Time Finished: 15:50

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 ✓ Sonication SW3550C ____
Waste Dilution SW3580A ____ Soxhlet SW3540 ____

BATCH #	GC OP41180	RACK#	PCB 12
Weighed by:	BA		
Extracted by:	ARC; BA		
Concentrated by:	YA; RM		
Final Vol. Top-up:			
Vialed by:	JH; EO; CB		
Supervisor Review:	TG 8/11/22		

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc	Amt. Spiked

WITNESS SIGN ____ SPIKE SIGN ____
Manager/Supervisor/Team Lead Approval ____

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol (mL)	Extract Cleanup H2SO4	Florisil	Cu	KMnO4	GPC	Comment
MB1	PCB		Sand	15.0			20		Clear	10	✓		✓			
BS1			Sand	15.0					Clear	10	✓		✓			
JD49450-1 MS		1	Soil	16.1		✓			Brown	10	✓		✓			
MSD		1	Soil	16.4		✓			Brown	10	✓		✓			
BSD			Sand	15.0					Clear	10	✓		✓			
MS																
MSD																
1 JD49450-1	PCB	1	Soil	15.3		✓	20		Brown	10	✓		✓			
2 -2		1	Soil	15.4		✓			Brown	10	✓		✓			
3 JD49214-1		1	Sand	15.6		✓			L yellow	10	✓		✓			
4 -2		1	Sand	16.7		✓			yellow	10	✓		✓			
5 -3		1	Sand	15.2		✓			L yellow	10	✓		✓			
6 -4		1	Sand	16.1		✓			Clear	10	✓		✓			
7 -5		1	Sand	16.3		✓			L yellow	10	✓		✓			
8 -6		1	Sand	15.1		✓			Clear	10	✓		✓			
9 -7		1	Sand	15.6		✓			L yellow	10	✓		✓			
10 JD49400-1		1	Mud	15.3		✓			Brown	10	✓		✓			•
11 JD49428-1		3	Rocks	15.1		✓			yellow	10	✓		✓			x
12 -2		3	Rocks	16.0		✓			yellow	10	✓		✓			x
13 -3		3	Rocks	15.2		✓			yellow	10	✓		✓			x
14 -4		3	Rocks	15.3		✓			yellow	10	✓		✓			x
15 JD49580-1		2	Rocks	15.3		✓			yellow	10	✓		✓			x
16 -2		2	Rocks	16.8		✓			L yellow	10	✓		✓			x
17 -3		1	Soil	15.4		✓			yellow	10	✓		✓			
18 -4		1	Rocks	15.6		✓			L yellow	10	✓		✓			x
19																
20																

Comments: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:
• Strong smell
x - water in sample

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Due: 8/11

SGS
Form. OP018A-10
Rev Date 1/31/22

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Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	1; 2	65	-	-	OK
Buchi Chiller	B1; B2	11.0; 11.0	-	-	OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)					
Balance	B70	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	212742-85	400	1.0
PPCB LL			

WITNESS SIGN JH SPIKE SIGN EO

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	2+		
PEST LL			
PCB	212742-86	2mm	1.0
PCB LL			

WITNESS SIGN JH SPIKE SIGN EO

SOLVENT	LOT #	BRAND	AMT (mL)
2:1 HEXANE/ ACETONE	223504 / 217738	Fisher / Fisher	30.0
1:1 METH CHLOR/ ACETONE			
HEXANE	223504	Fisher	Van

REAGENT	LOT #	BAKE BATCH #	BRAND
HYDROMATRIX	198004	8-2-22	Agilent
SODIUM SULFATE	214945	8-10-22	Fisher
FILTER PAPER	17485833		Fisher
FLORISIL			
1:1 SULFURIC ACID	210E65	-	Ricca
COPPER	226130-89		Resrocp
PERMANG(KMnO4)			
HYDROXYLAMINE			

MATRIX	LOT #	BAKE BATCH #	BRAND
SAND	2GA210916OSA	3-18-22	Fisher
VIALS	22016200		Agilent

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:19	MA52838-STD1	1		STDA
10:23	MA52838-STD2	1		STDA
10:27	MA52838-STD3	1		STDA
10:31	MA52838-STD4	1		STDB
10:34	MA52838-STD5	1		STDC
10:37	MA52838-STD6	1		STDD
10:41	MA52838-STD7	1		STDE
10:44	MA52838-STD8	1		STDF
10:48	MA52838-STD9	1		STDG
10:51	MA52838-STD10	1		STDH
10:55	MA52838-STD11	1		STDI
10:58	MA52838-STD12	1		STDJ
11:02	MA52838-STD13	1		STDA
11:05	ZZZZZZ	1		
11:09	MA52838-ICVA1	1		
11:12	MA52838-ICV1	1		
11:15	MA52838-ICB1	1		
11:19	MA52838-CCVA1	1		
11:22	MA52838-CCB1	1		
11:25	ZZZZZZ	1		
11:29	MA52838-CRI1	1		
11:32	MA52838-ICSA1	1		
11:35	MA52838-ICSAB1	1		
11:39	ZZZZZZ	1		
11:42	MA52838-CRI2	1		
11:45	MA52838-CCVA2	1		
11:49	MA52838-CCB2	1		
11:52	ZZZZZZ	1		
11:55	MP34481-MB1	2		
11:59	MP34481-B1	2		
12:02	MP34481-S1	2		
12:05	MP34481-S2	2		
12:09	JD49362-3F	2		(sample used for QC only; not part of login JD49400)

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:12	MP34481-SD1	2		
12:16	ZZZZZZ	5		
12:20	ZZZZZZ	5		
12:24	MA52838-CCVA3	1		
12:27	MA52838-CCB3	1		
12:30	ZZZZZZ	5		
12:34	ZZZZZZ	2		
12:37	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:44	MP34484-MB1	5		Batch to reanalyze for Zn, CRI out
12:48	MP34484-B1	5		Ag low recovery, rerun or redigest the batch for Ag
12:51	ZZZZZZ	10		
12:55	MA52838-CCVA4	1		
12:58	MA52838-CCB4	1		
13:01	MP34484-S1	5		%sol multiple high elements
13:04	MP34484-S2	5		%sol multiple high elements
13:08	JD49193-5	5		(sample used for QC only; not part of login JD49400)
13:11	ZZZZZZ	5		
13:15	ZZZZZZ	1		
13:18	ZZZZZZ	1		
13:21	MP34484-SD1	25		%sol multiple high elements
13:25	MP34484-PS1	5		
13:28	ZZZZZZ	1		
13:32	MA52838-CCVA5	1		
13:35	MA52838-CCB5	1		
13:38	JD49400-1	5		Ca,Mg,Zn high. rerun for Ag
13:42	ZZZZZZ	5		
13:45	ZZZZZZ	5		
13:48	ZZZZZZ	5		
13:52	ZZZZZZ	5		
13:55	ZZZZZZ	5		
13:58	ZZZZZZ	5		
14:02	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:05	ZZZZZZ	25		
14:08	MA52838-CCVA6	1		
14:12	MA52838-CCB6	1		
14:15	ZZZZZZ	5		
14:18	ZZZZZZ	5		
14:22	ZZZZZZ	5		
14:25	ZZZZZZ	5		
14:28	MA52838-CCVA7	1		
14:32	MA52838-CCB7	1		
14:35	JD49400-1	20		
---------->	Last reportable sample/prep for job JD49400			
14:38	ZZZZZZ	10		
14:42	ZZZZZZ	10		
14:45	ZZZZZZ	10		
14:49	ZZZZZZ	20		
14:52	ZZZZZZ	20		
14:55	ZZZZZZ	20		
14:59	ZZZZZZ	25		
15:02	MA52838-CCVA8	1		
15:06	MA52838-CCB8	1		
---------->	Last reportable CCB for job JD49400			
15:09	ZZZZZZ	5		
15:12	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:19	ZZZZZZ	1		
15:22	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Na	Tl	V	
11:05	ZZZZZZ	1																					
11:09	MA52838-ICVA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:12	MA52838-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:15	MA52838-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:19	MA52838-CCVA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:22	MA52838-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:25	ZZZZZZ	1																					
11:29	MA52838-CRI1	1																					
11:32	MA52838-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:35	MA52838-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:39	ZZZZZZ	1																					
11:42	MA52838-CRI2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:45	MA52838-CCVA2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:49	MA52838-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:52	ZZZZZZ	1																					
11:55	MP34481-MB1	2															X						
11:59	MP34481-B1	2															X						
12:02	MP34481-S1	2															X						
12:05	MP34481-S2	2															X						
12:09	JD49362-3F	2																					(a)
12:12	MP34481-SD1	2															X						
12:16	ZZZZZZ	5																					
12:20	ZZZZZZ	5																					
12:24	MA52838-CCVA3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:27	MA52838-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:30	ZZZZZZ	5																					
12:34	ZZZZZZ	2																					
12:37	ZZZZZZ	1																					
12:40	ZZZZZZ	1																					
12:44	MP34484-MB1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:48	MP34484-B1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:51	ZZZZZZ	10																					
12:55	MA52838-CCVA4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Na	Tl	V	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Na	Tl	V	
12:58	MA52838-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:01	MP34484-S1	5		X	X		X	X		X	X				X		X	X	X	X	X	X	
13:04	MP34484-S2	5		X	X		X	X		X	X				X		X	X	X	X	X	X	
13:08	JD49193-5	5																					(a)
13:11	ZZZZZZ	5																					
13:15	ZZZZZZ	1																					
13:18	ZZZZZZ	1																					
13:21	MP34484-SD1	25		X	X		X	X	X	X	X	X			X		X	X	X	X	X	X	
13:25	MP34484-PS1	5		X																		X	
13:28	ZZZZZZ	1																					
13:32	MA52838-CCVA5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:35	MA52838-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:38	JD49400-1	5	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	
13:42	ZZZZZZ	5																					
13:45	ZZZZZZ	5																					
13:48	ZZZZZZ	5																					
13:52	ZZZZZZ	5																					
13:55	ZZZZZZ	5																					
13:58	ZZZZZZ	5																					
14:02	ZZZZZZ	5																					
14:05	ZZZZZZ	25																					
14:08	MA52838-CCVA6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:12	MA52838-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:15	ZZZZZZ	5																					
14:18	ZZZZZZ	5																					
14:22	ZZZZZZ	5																					
14:25	ZZZZZZ	5																					
14:28	MA52838-CCVA7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:32	MA52838-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:35	JD49400-1	20							X							X							
14:38	ZZZZZZ	10																					
14:42	ZZZZZZ	10																					
14:45	ZZZZZZ	10																					
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Na	Tl	V	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Na	Tl	V
14:49	ZZZZZZ	20																				
14:52	ZZZZZZ	20																				
14:55	ZZZZZZ	20																				
14:59	ZZZZZZ	25																				
15:02	MA52838-CCVA8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:06	MA52838-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:09	ZZZZZZ	5																				
15:12	ZZZZZZ	1																				
15:15	ZZZZZZ	1																				
15:19	ZZZZZZ	1																				
15:22	ZZZZZZ	1																				

(a) Sample used for QC only; not part of login JD49400.

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
10:19	MA52838-STD1	100	100	100	100	100	100	100	100
10:23	MA52838-STD2	100	100	100	100	100	100	100	100
10:27	MA52838-STD3	100	100	100	100	100	100	100	100
10:31	MA52838-STD4	95.544	96.179	96.351	96.694	97.283	97.663	99.837	96.967
10:34	MA52838-STD5	90.253	90.242	92.31	93.105	90.82	95.065	95.81	91.441
10:37	MA52838-STD6	93.43	94.203	93.393	93.559	95.371	95.025	96.237	95.601
10:41	MA52838-STD7	92.761	94.558	93.996	93.75	95.909	96.151	96.664	95.797
10:44	MA52838-STD8	90.244	90.002	92.572	92.925	92.218	94.082	94.419	92.315
10:48	MA52838-STD9	89.007	89.244	92.006	93.159	92.011	94.631	96.518	92.106
10:51	MA52838-STD10	92.176	93.025	93.689	93.994	94.087	95.793	96.109	94.985
10:55	MA52838-STD11	92.409	93.869	96.236	96.662	93.167	96.991	98.89	93.395
10:58	MA52838-STD12	92.584	95.658	97.84	97.698	94.926	97.509	98.117	94.646
11:02	MA52838-STD13	100	100	100	100	100	100	100	100
11:05	ZZZZZZ	95.359	95.323	98.344	97.278	94.845	98.122	99.387	94.706
11:09	MA52838-ICVA1	94.682	97.905	102.984	101.976	95.812	100.633	101.295	96.31
11:12	MA52838-ICV1	94.772	93.277	98.155	97.188	94.383	97.763	99.473	94.977
11:15	MA52838-ICB1	93.533	93.209	94.773	95.506	93.524	94.269	96.653	93.006
11:19	MA52838-CCVA1	97.46	101.18	100.91	101.266	98.695	97.999	98.553	98.861
11:22	MA52838-CCB1	95.264	95.144	98.251	98.104	95.703	97.504	99.943	95.967
11:25	ZZZZZZ	94.652	94.575	98.718	99.901	94.711	99.08	101.232	94.979
11:29	MA52838-CRI1	No results reported for the elements associated with this internal standard.							
11:32	MA52838-ICSA1	90.344	102.439	99.23	101.678	90.241	88.635	91.796	88.31
11:35	MA52838-ICSAB1	85.498	90.662	93.144	95.861	88.385	88.528	92.041	86.337
11:39	ZZZZZZ	84.885	89.02	90.292	92.797	89.376	91.212	94.597	90.207
11:42	MA52838-CRI2	85.831	89.587	90.892	93.708	90.54	92.082	96.566	90.959
11:45	MA52838-CCVA2	88.124	93.935	95.48	97.083	93.447	94.889	98.62	93.955
11:49	MA52838-CCB2	89.49	91.852	95.472	97.219	93.717	95.944	99.75	94.125
11:52	ZZZZZZ	93.18	95.965	97.221	98.342	96.998	97.197	101.365	97.713
11:55	MP34481-MB1	96.726	96.269	100.47	100.383	100.094	102.652	104.268	100.231
11:59	MP34481-B1	85.455	96.865	95.647	99.433	88.615	92.639	97.595	88.829
12:02	MP34481-S1	85.064	89.099	90.101	93.298	92.427	92.66	97.742	93.008
12:05	MP34481-S2	84.163	88.371	89.222	95.408	92	92.731	98.508	92.412
12:09	JD49362-3F	89.705	91.807	91.811	95.935	94.762	94.788	99.96	95.642

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
12:12	MP34481-SD1	87.862	89.38	91.564	96.839	91.474	94.873	100.052	91.801
12:16	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:20	ZZZZZZ	96.886	105.712	104.324	105.169	98.509	98.816	100.271	98.416
12:24	MA52838-CCVA3	96.432	97.942	102.782	104.133	99.028	102.379	105.006	99.514
12:27	MA52838-CCB3	96.835	96.979	97.876	97.021	98.472	97.145	100.145	98.651
12:30	ZZZZZZ	96.161	97.894	105.695	107.005	97.341	104.147	107.529	97.418
12:34	ZZZZZZ	88.132	95.168	94.326	99.57	90.787	92.85	99.854	90.521
12:37	ZZZZZZ	109.504	101.801	103.664	104.819	109.62	106.056	108.605	109.764
12:40	ZZZZZZ	107.695	106.04	106.926	106.946	106.749	107.234	108.282	106.839
12:44	MP34484-MB1	107.262	107.082	107.139	106.194	107.514	106.162	108.408	107.656
12:48	MP34484-B1	102.557	104.281	107.971	108.503	102.859	106.583	108.104	103
12:51	ZZZZZZ	102.968	104.202	109.627	109.257	103.93	105.619	106.679	103.794
12:55	MA52838-CCVA4	96.134	102.421	107.289	108.841	99.028	103.952	106.763	99.359
12:58	MA52838-CCB4	99.453	99.094	102.935	102.483	99.818	102.284	103.776	99.765
13:01	MP34484-S1	101.932	107.219	106.437	97.681	102.279	102.464	95.226	101.704
13:04	MP34484-S2	100.975	106.247	109.346	106.119	102.61	107.667	104.166	102.761
13:08	JD49193-5	102.27	107.403	110.556	106.415	104.538	108.119	104.609	104.181
13:11	ZZZZZZ	94.669	97.461	94.512	64.067 !	94.846	93.305	63.433 !	94.054
13:15	ZZZZZZ	40.991 !	56.672 !	51.123 !	99.407	40.466 !	46.325 !	91.752	39.831 !
13:18	ZZZZZZ	65.772 !	57.687 !	82.54	84.004	63.772 !	84.37	87.31	63.981 !
13:21	MP34484-SD1	108.28	103.379	109.352	105.749	109.85	110.729	108.484	110.169
13:25	MP34484-PS1	97.957	107.775	106.24	105.402	100.136	103.114	104.782	99.858
13:28	ZZZZZZ	96.736	98.839	101.518	100.815	98.123	101.79	102.245	98.633
13:32	MA52838-CCVA5	95.452	99.231	102.756	101.657	96.99	100.804	102.601	98.061
13:35	MA52838-CCB5	96.2	96.844	100.047	100.066	97.677	99.872	102.054	97.966
13:38	JD49400-1	94.923	97.325	98.847	95.842	94.725	98.211	96.311	94.789
13:42	ZZZZZZ	96.972	100.391	99.071	95.046	98.2	97.688	94.301	97.831
13:45	ZZZZZZ	77.543	82.307	105.319	84.498	80.096	104.14	84.194	79.966
13:48	ZZZZZZ	100.928	105.495	104.174	98.713	103.009	102.549	97.987	102.506
13:52	ZZZZZZ	101.921	107.799	105.312	102.824	105.352	104.76	101.686	104.832
13:55	ZZZZZZ	98.22	102.597	107.736	104.285	100.068	105.898	102.7	99.771
13:58	ZZZZZZ	91.481	93.565	81.307	100.223	90.975	80.879	100.183	90.111
14:02	ZZZZZZ	74.037	73.181	100.903	98.506	70.837	98.947	97.603	70.475

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
14:05	ZZZZZZ	107.584	103.606	111.924	107.083	109.481	113.274	110.429	109.001
14:08	MA52838-CCVA6	98.075	104.879	110.061	108.772	100.943	108.525	109.384	101.24
14:12	MA52838-CCB6	104.934	104.904	111.759	110.312	105.63	109.786	111.825	105.171
14:15	ZZZZZZ	109.125	123.234	120.195	117.994	109.969	108.843	109.398	109.452
14:18	ZZZZZZ	100.722	105.418	108.608	111.146	101.277	104.325	108.744	100.547
14:22	ZZZZZZ	102.682	109.113	113.168	109.576	103.771	108.15	107.135	103.19
14:25	ZZZZZZ	102.331	109.639	113.601	109.413	104.115	109.167	106.466	103.259
14:28	MA52838-CCVA7	100.391	103.309	108.814	107.155	102.493	107.171	107.553	102.509
14:32	MA52838-CCB7	100.673	101.544	108.299	107.208	102.333	106.731	108.654	102.67
14:35	JD49400-1	112.672	107.067	112.046	109.544	112.259	114.541	113.884	112.517
14:38	ZZZZZZ	109.065	113.962	115.889	109.042	109.56	112.8	109.006	109.227
14:42	ZZZZZZ	111.023	111.321	110.604	107.245	108.789	108.87	108.335	109.263
14:45	ZZZZZZ	111.786	113.28	114.368	102.854	110.625	112.34	104.454	110.807
14:49	ZZZZZZ	112.605	111.036	115.446	105.614	112.018	115.416	109.155	112.002
14:52	ZZZZZZ	110.972	110.624	112.419	105.677	109.863	111.501	106.66	109.746
14:55	ZZZZZZ	111.767	111.144	111.369	108.255	110.026	110.489	109.635	109.629
14:59	ZZZZZZ	112.589	110.947	113.592	108.03	110.737	113.969	111.027	111.038
15:02	MA52838-CCVA8	98.434	106.803	109.17	105.805	99.038	106.475	105.945	99.324
15:06	MA52838-CCB8	102.141	103.126	106.463	106.399	101.529	106.227	106.704	102.222
15:09	ZZZZZZ	104.603	105.718	110.168	106.708	103.105	108.301	107.791	103.87
15:12	ZZZZZZ	103.335	104.669	106.355	104.234	102.375	105.369	104.743	103.481
15:15	ZZZZZZ	100.053	99.765	103.658	102.312	99.367	102.487	103.559	99.695
15:19	ZZZZZZ	101.167	101.569	104.731	103.179	99.492	104.133	104.586	99.308
15:22	ZZZZZZ	101.086	101.28	104.633	103.348	99.225	103.503	103.957	98.467

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#1	Lithium	70-130 %	70-130 %
Istd#2	Scandium (45-1)	70-130 %	70-130 %
Istd#3	Scandium (45-2)	70-130 %	70-130 %
Istd#4	Scandium (45-3)	70-130 %	70-130 %
Istd#5	Germanium (72-1)	70-130 %	70-130 %
Istd#6	Germanium (72-2)	70-130 %	70-130 %
Istd#7	Germanium (72-3)	70-130 %	70-130 %
Istd#8	Germanium (74-1)	70-130 %	70-130 %

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
10:19	MA52838-STD1	100	100	100	100	100	100	100	100
10:23	MA52838-STD2	100	100	100	100	100	100	100	100
10:27	MA52838-STD3	100	100	100	100	100	100	100	100
10:31	MA52838-STD4	98.362	99.752	95.704	97.797	100.725	96.264	99.071	96.422
10:34	MA52838-STD5	95.471	97.078	90.207	94.586	95.756	90.71	94.855	90.608
10:37	MA52838-STD6	95.558	96.236	94.22	95.132	96.596	94.769	96.177	94.4
10:41	MA52838-STD7	95.779	97.237	93.918	95.905	95.984	94.985	96.198	94.809
10:44	MA52838-STD8	93.686	96.535	90.375	92.034	94.73	91.359	94.421	91.163
10:48	MA52838-STD9	94.469	96.361	90.379	92.923	95.515	91.982	95.283	91.904
10:51	MA52838-STD10	96.336	96.913	93.021	94.46	95.757	94.451	97.168	95.836
10:55	MA52838-STD11	96.684	97.625	91.178	93.433	95.37	92.297	96.228	94.338
10:58	MA52838-STD12	97.362	98.607	91.316	93.071	94.856	91.785	95.366	94.654
11:02	MA52838-STD13	100	100	100	100	100	100	100	100
11:05	ZZZZZZ	98.43	98.77	95.184	98.011	99.231	95.49	98.133	96.286
11:09	MA52838-ICVA1	101.279	101.356	92.22	96.682	96.372	93.695	99.318	97.042
11:12	MA52838-ICV1	99.375	100.027	92.861	96.783	99.288	94.746	98.209	95.55
11:15	MA52838-ICB1	94.838	96.127	92.771	93.297	96.539	93.781	94.417	94.119
11:19	MA52838-CCVA1	98.616	99.127	95.901	92.993	93.918	96.787	96.781	99.289
11:22	MA52838-CCB1	98.536	99.773	95.261	97.519	99.545	95.528	98.754	96.593
11:25	ZZZZZZ	99.465	100.73	95.168	99.144	100.878	96.078	99.946	97.028
11:29	MA52838-CRI1	No results reported for the elements associated with this internal standard.							
11:32	MA52838-ICSA1	89.65	89.996	83.815	83.28	78.495	84.574	82.547	94.766
11:35	MA52838-ICSAB1	88.922	90.872	81.59	82.614	79.689	83.466	82.169	93.956
11:39	ZZZZZZ	91.759	94.966	90.516	93.729	96.142	92.021	93.292	94.388
11:42	MA52838-CRI2	93.811	96.757	92.218	94.537	97.42	93.264	94.961	95.376
11:45	MA52838-CCVA2	96.268	98.368	91.84	92.988	96.515	93.127	95.985	97.715
11:49	MA52838-CCB2	97.587	99.256	93.737	97.263	100.86	95.677	98.016	96.443
11:52	ZZZZZZ	99.098	100.8	97.774	98.53	101.71	99.17	99.612	100.357
11:55	MP34481-MB1	103.541	103.156	100.35	103.513	104.847	101.223	102.836	101.926
11:59	MP34481-B1	94.607	96.474	88.966	92.878	96.722	89.886	94.533	92.293
12:02	MP34481-S1	93.237	97.797	87.764	89.569	91.822	91.493	91.066	94.536
12:05	MP34481-S2	93.378	99.062	87.49	88.697	93.055	90.592	90.984	95.108
12:09	JD49362-3F	95.445	99.058	91.446	92.326	96.802	94.248	94.461	97.9

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
12:12	MP34481-SD1	94.719	99.65	89.026	92.804	96.347	91.58	94.574	95.096
12:16	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:20	ZZZZZZ	99.26	98.941	94.875	93.728	94.437	97.473	97.647	104.776
12:24	MA52838-CCVA3	103.695	104.485	95.688	98.84	100.892	97.806	102.479	101.619
12:27	MA52838-CCB3	98.632	99.948	98.518	99.191	100.083	99.26	98.792	100.461
12:30	ZZZZZZ	105.763	107.589	94.765	100.498	102.633	97.558	103.812	100.698
12:34	ZZZZZZ	94.097	99.393	86.658	90.19	92.545	90.026	92.318	93.889
12:37	ZZZZZZ	106.348	108.424	108	106.23	108.357	108.802	105.053	110.129
12:40	ZZZZZZ	108.052	108.518	105.096	105.473	106.95	105.775	106.561	105.625
12:44	MP34484-MB1	107.15	107.677	106.098	105.567	107.064	106.092	104.577	107.346
12:48	MP34484-B1	106.772	107.802	100.479	103.029	103.699	100.835	105.453	102.051
12:51	ZZZZZZ	105.89	105.404	99.742	100.475	100.699	101.544	103.262	104.963
12:55	MA52838-CCVA4	104.691	106.196	95.531	99.2	101.878	95.627	102.543	98.58
12:58	MA52838-CCB4	103.186	103.741	98.859	102.555	102.501	99.917	102.557	99.552
13:01	MP34484-S1	102.618	93.849	97.958	96.061	88.288	98.816	99.019	101.234
13:04	MP34484-S2	107.572	103.614	98.207	99.83	98.102	97.971	103.898	100.77
13:08	JD49193-5	106.9	103.77	99.879	100.565	98.478	100.284	103.955	101.855
13:11	ZZZZZZ	92.878	63.008 !	90.737	87.272	55.901 !	90.395	89.551	92.56
13:15	ZZZZZZ	44.971 !	87.255	37.154 !	37.119 !	72.692	37.572 !	40.029 !	40.567 !
13:18	ZZZZZZ	85.031	86.681	62.572 !	83.359	79.419	63.182 !	84.163	65.195 !
13:21	MP34484-SD1	110.99	107.393	106.287	105.961	105.285	106.342	108.509	107.782
13:25	MP34484-PS1	104.096	102.887	95.242	96.954	98.452	96.441	100.283	98.664
13:28	ZZZZZZ	102.276	102.015	96.549	99.442	100.94	96.902	100.381	96.977
13:32	MA52838-CCVA5	102.019	101.658	94.42	96.906	96.319	94.682	99.374	96.384
13:35	MA52838-CCB5	101.619	100.771	96.205	98.607	99.708	96.25	99.235	95.733
13:38	JD49400-1	97.957	96.397	92.56	96.031	95.114	94.145	96.93	95.896
13:42	ZZZZZZ	96.723	91.784	93.658	89.957	81.588	94.87	93.208	96.777
13:45	ZZZZZZ	103.537	83.849	76.672	98.023	73.501	76.319	100.101	78.187
13:48	ZZZZZZ	102.044	97.278	97.368	95.363	91.214	97.731	98.581	99.238
13:52	ZZZZZZ	103.942	99.822	99.609	97.27	95.713	100.481	100.396	103.093
13:55	ZZZZZZ	104.424	101.531	96.037	97.935	96.068	95.909	101.303	99.159
13:58	ZZZZZZ	80.211	99.364	87.283	75.812	94.361	87.897	77.422	89.741
14:02	ZZZZZZ	98.894	96.122	68.753 !	94.065	92.235	68.981 !	96.496	71.139

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
14:05	ZZZZZZ	114.541	109.552	105.479	108.5	107.21	105.741	111.407	106.052
14:08	MA52838-CCVA6	108.681	108.891	95.588	102.122	103.783	96.257	105.832	97.054
14:12	MA52838-CCB6	111.675	111.16	103.132	108.782	108.85	101.652	109.121	101.618
14:15	ZZZZZZ	109.183	107.299	104.374	101.545	102.393	104.185	104.359	106.567
14:18	ZZZZZZ	104.638	108.044	96.878	99.763	102.38	96.722	100.509	98.365
14:22	ZZZZZZ	108.624	105.485	99.22	102.287	100.493	98.255	104.871	100.475
14:25	ZZZZZZ	108.393	104.728	98.391	103	100.732	98.709	104.19	100.836
14:28	MA52838-CCVA7	108.347	107.211	97.847	101.877	102.596	97.132	104.512	98.48
14:32	MA52838-CCB7	108.466	107.713	100.163	105.709	106.983	99.401	105.728	98.657
14:35	JD49400-1	115.608	112.909	109.223	111.033	111.217	109.81	111.48	109.214
14:38	ZZZZZZ	113.998	107.64	105.152	106.596	103.48	104.324	109.573	104.8
14:42	ZZZZZZ	111.029	107.623	104.593	103.29	102.685	104.084	106.201	104.577
14:45	ZZZZZZ	113.319	102.664	106.06	106.685	99.705	105.641	109.989	106.414
14:49	ZZZZZZ	116.463	107.229	108.108	109.504	104.295	107.594	112.026	108.023
14:52	ZZZZZZ	112.385	106.242	106.249	106.032	103.976	104.984	108.225	105.486
14:55	ZZZZZZ	112.405	108.555	106.022	105.997	103.961	105.718	108.385	105.513
14:59	ZZZZZZ	114.688	110.122	106.735	107.833	106.681	106.804	110.884	107.118
15:02	MA52838-CCVA8	108.056	105.998	95.212	100.748	100.153	94.746	104.322	95.445
15:06	MA52838-CCB8	108.049	107.187	100.722	104.878	105.539	100.633	105.575	99.589
15:09	ZZZZZZ	108.938	106.73	100.757	105.223	104.016	101.103	107.103	101.305
15:12	ZZZZZZ	105.772	104.925	99.357	99.906	100.941	100.17	103.236	101.158
15:15	ZZZZZZ	103.995	103.601	98.577	102.297	103.324	98.175	101.979	98.667
15:19	ZZZZZZ	105.419	103.822	99.104	103.947	104.291	98.182	102.595	98.394
15:22	ZZZZZZ	104.538	103.878	98.343	103.727	105.492	98.042	102.962	98.72

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#9	Germanium (74-2)	70-130 %	70-130 %
Istd#10	Germanium (74-3)	70-130 %	70-130 %
Istd#11	Rhodium (103-1)	70-130 %	70-130 %
Istd#12	Rhodium (103-2)	70-130 %	70-130 %
Istd#13	Rhodium (103-3)	70-130 %	70-130 %
Istd#14	Indium (115-1)	70-130 %	70-130 %
Istd#15	Indium (115-2)	70-130 %	70-130 %
Istd#16	Terbium (159-1)	70-130 %	70-130 %

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
10:19	MA52838-STD1	100	100	100	100	100	100
10:23	MA52838-STD2	100	100	100	100	100	100
10:27	MA52838-STD3	100	100	100	100	100	100
10:31	MA52838-STD4	99.333	100.751	97.125	98.728	97.585	98.752
10:34	MA52838-STD5	95.762	96.276	91.259	95.221	91.594	95.791
10:37	MA52838-STD6	95.64	96.067	95.045	94.969	95.359	96.616
10:41	MA52838-STD7	96.181	96.154	95.075	96.207	95.429	97.252
10:44	MA52838-STD8	93.975	95.181	92.484	93.662	92.931	94.409
10:48	MA52838-STD9	96.176	97.345	92.83	95.505	93.608	96.203
10:51	MA52838-STD10	97.558	96.211	95.499	97.603	95.922	97.304
10:55	MA52838-STD11	97.542	98.378	94.704	97.75	93.606	96.079
10:58	MA52838-STD12	97.427	98.649	95.052	96.941	92.849	93.898
11:02	MA52838-STD13	100	100	100	100	100	100
11:05	ZZZZZZ	99.369	98.58	95.745	99.213	96.831	99.686
11:09	MA52838-ICVA1	97.935	99.421	96.57	100.446	95.208	99.141
11:12	MA52838-ICV1	97.852	98.438	94.691	99.381	95.636	99.187
11:15	MA52838-ICB1	94.334	95.494	94.546	96.362	94.389	96.771
11:19	MA52838-CCVA1	97.099	97.223	98.597	98.347	98.545	96.826
11:22	MA52838-CCB1	97.874	98.845	96.502	99.247	96.524	100.159
11:25	ZZZZZZ	99.687	99.951	96.578	101.44	97.337	102.427
11:29	MA52838-CRI1	No results reported for the elements associated with this internal standard.					
11:32	MA52838-ICSA1	94.42	93.721	95.269	95.993	87.845	87.527
11:35	MA52838-ICSAB1	94.1	95.119	94.48	95.608	87.11	87.053
11:39	ZZZZZZ	96.119	97.667	94.431	96.394	94.465	97.801
11:42	MA52838-CRI2	97.64	98.431	95.326	98.583	96.983	99.02
11:45	MA52838-CCVA2	97.605	99.253	97.57	98.648	96.869	97.999
11:49	MA52838-CCB2	99.295	100.408	96.881	100.593	97.118	100.722
11:52	ZZZZZZ	101.031	102.129	100.316	101.68	101.045	102.789
11:55	MP34481-MB1	103.831	104.303	101.667	105.951	104.609	107.704
11:59	MP34481-B1	97.194	99.53	92.549	97.768	94.19	98.227
12:02	MP34481-S1	95.126	97.139	94.873	96.986	94.092	95.639
12:05	MP34481-S2	94.497	97.235	95.297	95.565	93.636	94.683
12:09	JD49362-3F	96.58	98.422	97.278	98.348	98.257	99.481

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
12:12	MP34481-SD1	96.781	100.552	95.46	97.809	95.286	99.33
12:16	ZZZZZZ	No results reported for the elements associated with this internal standard.					
12:20	ZZZZZZ	101.336	100.595	104.697	104.138	99.757	99.001
12:24	MA52838-CCVA3	102.569	102.735	101.42	104.709	99.154	103.287
12:27	MA52838-CCB3	100.211	100.181	100.852	100.934	100.654	101.235
12:30	ZZZZZZ	104.962	104.732	101.422	106.537	99.46	104.18
12:34	ZZZZZZ	95.574	98.449	93.622	97.183	91.018	93.675
12:37	ZZZZZZ	105.445	104.698	109.402	106.903	107.949	105.789
12:40	ZZZZZZ	106.066	104.881	105.712	106.612	105.369	106.2
12:44	MP34484-MB1	105.352	104.152	106.773	107.511	107.425	107.25
12:48	MP34484-B1	104.604	104.341	101.765	106.372	100.726	104.146
12:51	ZZZZZZ	104.708	103.617	104.381	105.071	102.105	103.617
12:55	MA52838-CCVA4	101.233	102.411	97.727	102.793	95.697	100.039
12:58	MA52838-CCB4	102.146	102.486	99.172	103.767	98.338	103.639
13:01	MP34484-S1	98.753	91.275	101.626	100.068	97.981	97.458
13:04	MP34484-S2	101.467	99.202	100.59	102.776	98.041	100.277
13:08	JD49193-5	102.243	98.38	101.057	103.992	100.207	101.071
13:11	ZZZZZZ	89.328	61.388 !	92.459	90.648	91.017	88.444
13:15	ZZZZZZ	41.279 !	82.711	40.115 !	41.812 !	39.918 !	40.727 !
13:18	ZZZZZZ	83.913	84.923	64.677 !	84.905	63.87 !	83.857
13:21	MP34484-SD1	106.037	103.629	107.62	107.238	105.696	107.362
13:25	MP34484-PS1	98.829	98.486	97.727	100.375	96.666	98.074
13:28	ZZZZZZ	98.712	98.054	96.11	99.354	94.974	98.755
13:32	MA52838-CCVA5	98.973	97.976	95.699	100.485	93.841	97.753
13:35	MA52838-CCB5	97.483	96.594	95.552	99.782	94.486	98.531
13:38	JD49400-1	98.087	97.169	95.683	99.416	95.396	99.914
13:42	ZZZZZZ	92.41	88.979	97.141	94.334	94.034	91.947
13:45	ZZZZZZ	98.936	79.524	76.945	100.199	75.693	98.049
13:48	ZZZZZZ	96.529	93.021	98.354	98.615	97.613	96.725
13:52	ZZZZZZ	99.257	96.881	101.872	100.801	99.782	99.57
13:55	ZZZZZZ	100.507	97.654	98.012	102.122	96.501	99.157
13:58	ZZZZZZ	78.491	94.953	89.804	79.896	87.786	78.425
14:02	ZZZZZZ	96.501	94.967	71.131	97.479	71.097	96.063

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
Analyst: NV Run ID: MA52838
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Na,Tl,V

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
14:05	ZZZZZZ	108.603	105.78	105.985	110.809	105.081	110.431
14:08	MA52838-CCVA6	103.293	102.77	96.662	105.391	95.49	101.601
14:12	MA52838-CCB6	105.442	105.407	101.218	106.266	99.318	104.395
14:15	ZZZZZZ	102.342	101.937	105.662	103.406	102.66	100.769
14:18	ZZZZZZ	99.461	102.184	98.229	100.693	95.768	98.532
14:22	ZZZZZZ	102.883	99.469	100.196	103.906	97.015	101.216
14:25	ZZZZZZ	103.056	99.874	99.669	103.929	96.348	100.526
14:28	MA52838-CCVA7	101.991	101.59	98.17	104.251	95.492	100.319
14:32	MA52838-CCB7	103.641	102.777	98.254	104.272	97.12	102.429
14:35	JD49400-1	109.47	107.915	108.455	110.899	108.123	111.583
14:38	ZZZZZZ	106.932	103.022	105.111	108.674	102.875	106.752
14:42	ZZZZZZ	103.836	100.961	104.281	105.583	103.795	103.548
14:45	ZZZZZZ	106.999	97.775	106.073	107.575	104.932	106.779
14:49	ZZZZZZ	108.799	103.03	107.441	109.898	106.703	109.54
14:52	ZZZZZZ	105.284	101.302	105.372	107.358	104.165	105.921
14:55	ZZZZZZ	105.217	103.493	105.46	106.914	104.495	106.072
14:59	ZZZZZZ	107.777	104.164	106.431	110.384	105.511	108.312
15:02	MA52838-CCVA8	101.728	100.541	95.387	102.666	94.497	100.707
15:06	MA52838-CCB8	102.976	102.159	98.979	104.821	97.996	102.42
15:09	ZZZZZZ	105.38	102.545	100.496	107.647	100.064	104.362
15:12	ZZZZZZ	101.979	100.971	100.458	103.777	99.046	101.126
15:15	ZZZZZZ	101.391	101.552	98.521	101.611	97.362	101.39
15:19	ZZZZZZ	102.585	101.589	98.093	102.943	97.393	102.994
15:22	ZZZZZZ	102.276	101.632	98.435	104.05	96.63	102.939

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#17	Terbium (159-2)	70-130 %	70-130 %
Istd#18	Terbium (159-3)	70-130 %	70-130 %
Istd#19	Holmium (165-1)	70-130 %	70-130 %
Istd#20	Holmium (165-2)	70-130 %	70-130 %
Istd#21	Bismuth (209-1)	70-130 %	70-130 %
Istd#22	Bismuth (209-2)	70-130 %	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: result < RL Run ID: MA52838 Units: ug/l

Time: / Sample ID:			11:15 ICB1		11:22 CCB1		11:49 CCB2		12:27 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.42	-2.48	<25	-1.32	<25	-1.38	<25	-1.05	<25
Antimony	2.0	.085	0.00814	<2.0	0.208	<2.0	0.169	<2.0	0.228	<2.0
Arsenic	0.50	.025	-0.00750	<0.50	0.0477	<0.50	0.0562	<0.50	0.0492	<0.50
Barium	1.0	.009	0.00555	<1.0	0.0946	<1.0	0.0690	<1.0	0.0976	<1.0
Beryllium	0.50	.005	-0.00185	<0.50	0.0977	<0.50	0.0686	<0.50	0.100	<0.50
Boron	25	.85								
Cadmium	0.50	.01	0.00532	<0.50	-0.00543	<0.50	-0.00313	<0.50	0.00794	<0.50
Calcium	250	3.6	-12.6	<250	-2.93	<250	-6.72	<250	-2.27	<250
Chromium	1.0	.018	0.00969	<1.0	0.0114	<1.0	0.0102	<1.0	0.00971	<1.0
Cobalt	0.50	.003	0.000378	<0.50	0.00160	<0.50	-0.00244	<0.50	-0.000247	<0.50
Copper	2.0	.024	-0.0986	<2.0	-0.0779	<2.0	-0.0988	<2.0	-0.0606	<2.0
Iron	25	.24	-6.48	<25	1.08	<25	2.12	<25	6.59	<25
Lead	0.50	.008	-0.00532	<0.50	0.0986	<0.50	0.0661	<0.50	0.105	<0.50
Magnesium	250	.19	0.262	<250	0.151	<250	0.746	<250	0.270	<250
Manganese	1.0	.012	-0.0240	<1.0	-0.0280	<1.0	-0.0173	<1.0	-0.00968	<1.0
Molybdenum	1.0	.017								
Nickel	1.0	.017	-0.0355	<1.0	-0.0310	<1.0	-0.00241	<1.0	-0.133	<1.0
Potassium	250	.78	1.92	<250	1.97	<250	-0.418	<250	1.82	<250
Selenium	0.50	.044	0.0242	<0.50	0.281	<0.50	0.184	<0.50	0.201	<0.50
Silver	0.50	.004	anr							
Sodium	250	1.5	-0.455	<250	-0.458	<250	2.08	<250	0.131	<250
Strontium	5.0	.014								
Thallium	0.50	.002	0.00668	<0.50	0.216	<0.50	0.173	<0.50	0.213	<0.50
Tin	5.0	.041								
Titanium	1.0	.11								
Vanadium	1.0	.013	-0.0116	<1.0	-0.00885	<1.0	-0.00966	<1.0	-0.0000652	<1.0
Zinc	5.0	.078	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: result < RL Run ID: MA52838 Units: ug/l

Time:			12:58		13:35		14:12		14:32	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.42	-0.727	<25	-1.28	<25	-0.968	<25	0.208	<25
Antimony	2.0	.085	0.329	<2.0	0.245	<2.0	0.243	<2.0	0.285	<2.0
Arsenic	0.50	.025	0.0555	<0.50	0.0603	<0.50	0.0542	<0.50	0.0620	<0.50
Barium	1.0	.009	0.187	<1.0	0.135	<1.0	0.140	<1.0	0.129	<1.0
Beryllium	0.50	.005	0.214	<0.50	0.136	<0.50	0.149	<0.50	0.156	<0.50
Boron	25	.85								
Cadmium	0.50	.01	0.00721	<0.50	0.00457	<0.50	0.00417	<0.50	0.00981	<0.50
Calcium	250	3.6	7.34	<250	0.800	<250	3.77	<250	5.19	<250
Chromium	1.0	.018	0.00420	<1.0	0.0128	<1.0	0.0126	<1.0	0.00599	<1.0
Cobalt	0.50	.003	0.000473	<0.50	0.000674	<0.50	-0.000899	<0.50	-0.000575	<0.50
Copper	2.0	.024	-0.0587	<2.0	-0.0831	<2.0	-0.0597	<2.0	-0.0703	<2.0
Iron	25	.24	4.53	<25	3.22	<25	5.83	<25	6.77	<25
Lead	0.50	.008	0.196	<0.50	0.155	<0.50	0.176	<0.50	0.170	<0.50
Magnesium	250	.19	0.133	<250	0.153	<250	0.00700	<250	0.582	<250
Manganese	1.0	.012	-0.0177	<1.0	-0.0178	<1.0	-0.0123	<1.0	0.0260	<1.0
Molybdenum	1.0	.017								
Nickel	1.0	.017	-0.110	<1.0	-0.127	<1.0	-0.163	<1.0	-0.172	<1.0
Potassium	250	.78	1.78	<250	0.871	<250	0.0973	<250	2.27	<250
Selenium	0.50	.044	0.257	<0.50	0.207	<0.50	0.203	<0.50	0.254	<0.50
Silver	0.50	.004	anr							
Sodium	250	1.5	-0.110	<250	0.180	<250	-0.312	<250	0.638	<250
Strontium	5.0	.014								
Thallium	0.50	.002	0.326	<0.50	0.250	<0.50	0.245	<0.50	0.262	<0.50
Tin	5.0	.041								
Titanium	1.0	.11								
Vanadium	1.0	.013	-0.00818	<1.0	-0.000408	<1.0	-0.00185	<1.0	-0.00898	<1.0
Zinc	5.0	.078	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: result < RL Run ID: MA52838 Units: ug/l

Time:			15:06	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	25	.42	2.37	<25
Antimony	2.0	.085	0.278	<2.0
Arsenic	0.50	.025	0.0683	<0.50
Barium	1.0	.009	0.207	<1.0
Beryllium	0.50	.005	0.173	<0.50
Boron	25	.85		
Cadmium	0.50	.01	0.0212	<0.50
Calcium	250	3.6	21.3	<250
Chromium	1.0	.018	0.0199	<1.0
Cobalt	0.50	.003	0.0160	<0.50
Copper	2.0	.024	-0.0652	<2.0
Iron	25	.24	10.1	<25
Lead	0.50	.008	0.204	<0.50
Magnesium	250	.19	4.31	<250
Manganese	1.0	.012	0.221	<1.0
Molybdenum	1.0	.017		
Nickel	1.0	.017	-0.147	<1.0
Potassium	250	.78	4.90	<250
Selenium	0.50	.044	0.252	<0.50
Silver	0.50	.004	anr	
Sodium	250	1.5	5.30	<250
Strontium	5.0	.014		
Thallium	0.50	.002	0.267	<0.50
Tin	5.0	.041		
Titanium	1.0	.11		
Vanadium	1.0	.013	0.00766	<1.0
Zinc	5.0	.078	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52838 Units: ug/l

Time:		11:09			11:12			11:19	
Sample ID:	ICVA	ICVA1		ICV	ICV1		CCVA	CCVA1	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	5500	5280	96.0	60	58.8	98.0	5000	5160	103.2
Antimony	60	61.9	103.2				50	53.7	107.4
Arsenic	60	59.0	98.3				50	50.9	101.8
Barium	60	58.8	98.0				50	50.3	100.6
Beryllium	60	59.8	99.7				50	51.6	103.2
Boron									
Cadmium	60	58.5	97.5				50	51.0	102.0
Calcium	5500	5180	94.2				5000	5110	102.2
Chromium	60	58.1	96.8				50	50.3	100.6
Cobalt	60	57.4	95.7				50	50.4	100.8
Copper	60	56.9	94.8				50	49.7	99.4
Iron	5500	5140	93.5				5000	5170	103.4
Lead	60	59.4	99.0				50	50.5	101.0
Magnesium	5500	5410	98.4				5000	5190	103.8
Manganese	60	58.5	97.5				50	50.6	101.2
Molybdenum									
Nickel	60	57.3	95.5				50	50.2	100.4
Potassium	5500	5100	92.7				5000	5130	102.6
Selenium	260	248	95.4				200	205	102.5
Silver	anr								
Sodium	5500	5230	95.1				5000	5220	104.4
Strontium									
Thallium	60	62.8	104.7				50	50.2	100.4
Tin									
Titanium									
Vanadium	60	57.6	96.0				50	50.4	100.8
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52838 Units: ug/l

Time:		11:45			12:24			12:55	
Sample ID:	CCVA	CCVA2		CCVA	CCVA3		CCVA	CCVA4	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	5000	5100	102.0	5000	5170	103.4	5000	5090	101.8
Antimony	50	53.1	106.2	50	53.4	106.8	50	53.0	106.0
Arsenic	50	51.6	103.2	50	51.5	103.0	50	50.8	101.6
Barium	50	49.3	98.6	50	50.3	100.6	50	49.5	99.0
Beryllium	50	51.3	102.6	50	50.5	101.0	50	49.9	99.8
Boron									
Cadmium	50	50.5	101.0	50	50.3	100.6	50	50.6	101.2
Calcium	5000	5180	103.6	5000	5420	108.4	5000	5160	103.2
Chromium	50	50.8	101.6	50	51.3	102.6	50	50.2	100.4
Cobalt	50	50.7	101.4	50	50.7	101.4	50	49.9	99.8
Copper	50	50.2	100.4	50	50.2	100.4	50	49.1	98.2
Iron	5000	5230	104.6	5000	5260	105.2	5000	5150	103.0
Lead	50	50.5	101.0	50	51.9	103.8	50	50.8	101.6
Magnesium	5000	5170	103.4	5000	5220	104.4	5000	5140	102.8
Manganese	50	50.2	100.4	50	51.1	102.2	50	49.8	99.6
Molybdenum									
Nickel	50	49.8	99.6	50	50.5	101.0	50	49.8	99.6
Potassium	5000	5050	101.0	5000	5140	102.8	5000	5080	101.6
Selenium	200	201	100.5	200	203	101.5	200	205	102.5
Silver	anr								
Sodium	5000	5190	103.8	5000	5250	105.0	5000	5150	103.0
Strontium									
Thallium	50	50.8	101.6	50	51.8	103.6	50	50.6	101.2
Tin									
Titanium									
Vanadium	50	51.1	102.2	50	51.5	103.0	50	50.6	101.2
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52838 Units: ug/l

Time:		13:32			14:08			14:28	
Sample ID:	CCVA	CCVA5		CCVA	CCVA6		CCVA	CCVA7	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	5000	5060	101.2	5000	5120	102.4	5000	5170	103.4
Antimony	50	53.7	107.4	50	54.2	108.4	50	53.1	106.2
Arsenic	50	51.0	102.0	50	51.3	102.6	50	51.5	103.0
Barium	50	50.3	100.6	50	51.9	103.8	50	51.0	102.0
Beryllium	50	50.0	100.0	50	52.2	104.4	50	50.2	100.4
Boron									
Cadmium	50	49.8	99.6	50	49.6	99.2	50	50.7	101.4
Calcium	5000	5110	102.2	5000	5160	103.2	5000	5230	104.6
Chromium	50	50.0	100.0	50	50.6	101.2	50	51.4	102.8
Cobalt	50	50.1	100.2	50	50.3	100.6	50	50.8	101.6
Copper	50	49.5	99.0	50	49.5	99.0	50	50.4	100.8
Iron	5000	5170	103.4	5000	5190	103.8	5000	5230	104.6
Lead	50	50.7	101.4	50	52.0	104.0	50	51.1	102.2
Magnesium	5000	5160	103.2	5000	5130	102.6	5000	5220	104.4
Manganese	50	50.4	100.8	50	50.5	101.0	50	51.1	102.2
Molybdenum									
Nickel	50	50.1	100.2	50	50.1	100.2	50	50.5	101.0
Potassium	5000	5100	102.0	5000	5140	102.8	5000	5200	104.0
Selenium	200	202	101.0	200	201	100.5	200	204	102.0
Silver	anr								
Sodium	5000	5150	103.0	5000	5130	102.6	5000	5200	104.0
Strontium									
Thallium	50	51.0	102.0	50	52.0	104.0	50	51.2	102.4
Tin									
Titanium									
Vanadium	50	50.9	101.8	50	51.2	102.4	50	52.0	104.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52838 Units: ug/l

Time:		15:02	
Sample ID:	CCVA	CCVA8	
Metal	True	Results	% Rec
Aluminum	5000	5190	103.8
Antimony	50	53.0	106.0
Arsenic	50	51.3	102.6
Barium	50	51.2	102.4
Beryllium	50	51.0	102.0
Boron			
Cadmium	50	50.4	100.8
Calcium	5000	4920	98.4
Chromium	50	51.2	102.4
Cobalt	50	50.5	101.0
Copper	50	50.0	100.0
Iron	5000	5240	104.8
Lead	50	50.8	101.6
Magnesium	5000	5190	103.8
Manganese	50	51.1	102.2
Molybdenum			
Nickel	50	50.4	100.8
Potassium	5000	5220	104.4
Selenium	200	203	101.5
Silver	anr		
Sodium	5000	5260	105.2
Strontium			
Thallium	50	51.2	102.4
Tin			
Titanium			
Vanadium	50	51.4	102.8
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: 80 to 120 % Recovery Run ID: MA52838 Units: ug/l

Time:			11:42	
Sample ID:	CRI	CRIA	CRI2	
Metal	True	True	Results	% Rec
Aluminum	25	25	26.6	106.4
Antimony	2.0	0.25	1.95	97.5
Arsenic	0.50	0.50	0.485	97.0
Barium	1.0	0.50	0.976	97.6
Beryllium	0.50	0.25	0.490	98.0
Boron	25	2.5		
Cadmium	0.50	0.25	0.440	88.0
Calcium	250	125	237	94.8
Chromium	1.0	2.0	1.06	106.0
Cobalt	0.50	0.25	0.480	96.0
Copper	2.0	2.0	1.98	99.0
Iron	25	25	26.6	106.4
Lead	0.50	0.25	0.490	98.0
Magnesium	250	125	239	95.6
Manganese	1.0	0.25	1.01	101.0
Molybdenum	1.0	0.50		
Nickel	1.0	2.0	1.03	103.0
Potassium	250	125	247	98.8
Selenium	0.50	0.50	0.448	89.6
Silver	0.50	1.0	anr	
Sodium	250	125	247	98.8
Strontium	5.0	0.50		
Thallium	0.50	0.25	0.486	97.2
Tin	5.0	0.50		
Titanium	1.0	0.50		
Vanadium	1.0	2.0	1.05	105.0
Zinc	5.0	2.0	anr	

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA080922M2.CSV Date Analyzed: 08/09/22 Methods: SW846 6020B
QC Limits: 80 to 120 % Recovery Run ID: MA52838 Units: ug/l

Time:			11:32		11:35	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	100000	100000	90000	90.0	93700	93.7
Antimony			0.122		0.0925	
Arsenic		20	0.0637		19.1	95.5
Barium			0.569		0.640	
Beryllium			0.00705		-0.00189	
Boron		50	2.62		54.6	109.2
Cadmium		20	-0.291		20.3	101.5
Calcium	100000	100000	83100	83.1	92300	92.3
Chromium		20	0.444		22.0	110.0
Cobalt		20	0.0549		19.3	96.5
Copper		20	-0.0285		18.1	90.5
Iron	100000	100000	86100	86.1	90100	90.1
Lead			0.169		0.206	
Magnesium	100000	100000	84300	84.3	88000	88.0
Manganese		20	0.464		20.1	100.5
Molybdenum	2000	2000	2050HH	102.5	2110HH	105.5
Nickel		20	0.901		19.4	97.0
Potassium	100000	100000	88400	88.4	92100	92.1
Selenium		20	0.117		21.4	107.0
Silver		20	0.0431		19.8	99.0
Sodium	100000	100000	86800	86.8	90700	90.7
Strontium	2000	2000	2030HH	101.5	2100HH	105.0
Thallium			0.0114		0.00603	
Tin	2000	2000	2050HH	102.5	2030HH	101.5
Titanium	2000	2000	1780HH	89.0	1860HH	93.0
Vanadium		20	0.0174		20.3	101.5
Zinc		20	0.951		22.0	110.0

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:54	MA52843-STD1	1		STDA
11:57	MA52843-STD2	1		STDA
12:00	MA52843-STD3	1		STDA
12:04	MA52843-STD4	1		STDB
12:08	MA52843-STD5	1		STDC
12:11	MA52843-STD6	1		STDD
12:15	MA52843-STD7	1		STDE
12:18	MA52843-STD8	1		STDF
12:22	MA52843-STD9	1		STDG
12:25	MA52843-STD10	1		STDH
12:29	MA52843-STD11	1		STDI
12:33	MA52843-STD12	1		STDJ
12:44	MA52843-STD13	1		STDA
12:47	MA52843-STD14	1		STDA
12:50	MA52843-ICVA1	1		
12:54	MA52843-ICV1	1		
13:11	MA52843-ICB1	1		
13:15	MA52843-CCVA1	1		
13:18	MA52843-CCB1	1		
13:22	ZZZZZZ	1		
13:25	MA52843-CRI1	1		
13:28	MA52843-ICSA1	1		
13:32	MA52843-ICSAB1	1		
13:38	ZZZZZZ	1		
13:44	MP34484-MB1	5		
13:48	ZZZZZZ	1		
13:51	ZZZZZZ	5		
13:54	MA52843-CCVA2	1		
13:58	MA52843-CCB2	1		
14:04	MP34484-B1	5		
14:07	MP34519-MB1	5		
14:11	MP34519-B1	5		
14:14	MP34519-S1	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:19	MP34519-S2	5		
14:22	JD49472-3	5		(sample used for QC only; not part of login JD49400)
14:25	MP34519-SD1	25		
14:29	MP34519-PS1	5		
14:32	ZZZZZZ	5		
14:35	MA52843-CCVA3	1		
14:39	MA52843-CCB3	1		
14:42	ZZZZZZ	5		
14:45	ZZZZZZ	5		
14:49	ZZZZZZ	5		
14:52	ZZZZZZ	5		
14:56	ZZZZZZ	5		
14:59	ZZZZZZ	5		
15:02	ZZZZZZ	5		
15:06	ZZZZZZ	5		
15:09	ZZZZZZ	5		
15:13	MA52843-CCVA4	1		
15:16	MA52843-CCB4	1		
15:19	ZZZZZZ	5		
15:23	ZZZZZZ	5		
15:26	ZZZZZZ	5		
15:30	ZZZZZZ	5		
15:33	ZZZZZZ	5		
15:37	ZZZZZZ	5		
15:40	ZZZZZZ	25		
15:44	ZZZZZZ	20		
15:47	MA52843-CCVA5	1		
15:51	MA52843-CCB5	1		
15:54	ZZZZZZ	10		
15:58	ZZZZZZ	10		
16:02	MA52843-CCVA6	1		
16:06	MA52843-CCB6	1		
16:09	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:00	ZZZZZZ	100		
17:04	ZZZZZZ	20		
17:20	ZZZZZZ	20		
17:39	ZZZZZZ	100		
17:42	MP34519-S1	50		
17:47	MP34519-S2	50		
17:52	JD49472-3	50		(sample used for QC only; not part of login JD49400)
18:04	MP34519-SD1	250		
18:08	MA52843-CCVA7	1		
18:11	MA52843-CCB7	1		
18:14	ZZZZZZ	20		
18:18	ZZZZZZ	10		
18:21	ZZZZZZ	50		
18:25	ZZZZZZ	10		
18:29	ZZZZZZ	100		
18:33	ZZZZZZ	10		
18:37	ZZZZZZ	20		
18:40	ZZZZZZ	10		
18:44	MA52843-CCVA8	1		
18:48	MA52843-CCB8	1		
18:51	ZZZZZZ	200		
18:55	ZZZZZZ	10		
18:59	ZZZZZZ	50		
19:02	ZZZZZZ	10		
19:06	ZZZZZZ	50		
19:10	ZZZZZZ	10		
19:13	ZZZZZZ	200		
19:17	ZZZZZZ	10		
19:20	MA52843-CCVA9	1		
19:24	MA52843-CCB9	1		
19:28	ZZZZZZ	50		
19:31	ZZZZZZ	10		
19:35	ZZZZZZ	50		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:39	ZZZZZZ	25		
19:42	ZZZZZZ	100		
19:46	MA52843-CCVA10	1		
19:49	MA52843-CCB10	1		
19:53	MP34484-S1	5		
19:57	MP34484-S2	5		
20:00	JD49193-5	5		(sample used for QC only; not part of login JD49400)
20:04	MP34484-SD1	25		
20:08	MP34484-PS1	5		
20:11	JD49400-1	5		Zn high
20:15	ZZZZZZ	10		
20:19	MA52843-CCVA11	1		
20:22	MA52843-CCB11	1		
20:26	ZZZZZZ	5		
20:29	ZZZZZZ	5		
20:33	ZZZZZZ	5		
20:36	ZZZZZZ	5		
20:40	MP34484-S1	50		
20:43	MP34484-S2	50		
20:46	JD49193-5	50		(sample used for QC only; not part of login JD49400)
20:50	MP34484-SD1	250		
---------->	Last reportable sample/prep for job JD49400			
20:53	ZZZZZZ	10		
20:57	MA52843-CCVA12	1		
21:00	MA52843-CCB12	1		
---------->	Last reportable CCB for job JD49400			
21:03	MP34509-MB1	1		
21:07	MP34509-B1	1		
21:10	MP34509-S1	1		high elements
21:14	MP34509-S2	1		high elements
21:17	JD49494-1	1		(sample used for QC only; not part of login JD49400)
21:20	ZZZZZZ	1		
21:23	ZZZZZZ	1		
21:27	ZZZZZZ	1		
21:30	MA52843-CCVA13	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:34	MA52843-CCB13	1		
21:37	ZZZZZZ	1		
21:40	ZZZZZZ	1		
21:44	ZZZZZZ	1		
21:47	ZZZZZZ	1		
21:50	ZZZZZZ	1		
21:53	ZZZZZZ	1		
21:57	ZZZZZZ	1		
22:00	MP34509-B1	1		
22:03	ZZZZZZ	1		
22:07	MA52843-CCVA14	1		
22:10	MA52843-CCB14	1		
22:14	ZZZZZZ	1		
22:17	ZZZZZZ	1		
22:21	ZZZZZZ	10		
22:24	MP34508-MB1	2		
22:28	ZZZZZZ	2		
22:32	MP34508-B1	2		
22:35	MP34508-S1	2		Na high
22:39	MP34508-S2	2		Na high
22:43	MA52843-CCVA15	1		
22:46	MA52843-CCB15	1		
22:50	JD49555-1	2		(sample used for QC only; not part of login JD49400)
22:54	MP34508-SD1	10		Na high
22:57	ZZZZZZ	2		
23:01	ZZZZZZ	2		
23:05	ZZZZZZ	2		
23:08	ZZZZZZ	2		
23:12	ZZZZZZ	2		
23:16	ZZZZZZ	2		
23:19	ZZZZZZ	2		
23:23	MA52843-CCVA16	1		
23:26	MA52843-CCB16	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:30	ZZZZZZ	2		
23:33	ZZZZZZ	2		
23:37	ZZZZZZ	2		
23:41	ZZZZZZ	2		
23:44	ZZZZZZ	2		
23:48	ZZZZZZ	2		
23:51	ZZZZZZ	2		
23:54	ZZZZZZ	2		
23:58	ZZZZZZ	1		
00:02	ZZZZZZ	1		
00:16	MA52843-CCVA17	1		
00:20	MA52843-CCB17	1		
00:23	ZZZZZZ	10		
00:27	ZZZZZZ	10		
00:30	ZZZZZZ	20		
00:34	ZZZZZZ	10		
00:37	ZZZZZZ	20		
00:41	MA52843-CCVA18	1		
00:44	MA52843-CCB18	1		
00:48	ZZZZZZ	10		
00:51	ZZZZZZ	10		
00:55	ZZZZZZ	50		
00:58	ZZZZZZ	50		
01:02	ZZZZZZ	20		
01:05	ZZZZZZ	50		
01:09	MA52843-CCVA19	1		
01:12	MA52843-CCB19	1		
01:16	MP34510-MB1	1		
01:19	MP34510-B1	1		
01:22	MP34510-S1	1		MN high
01:26	MP34510-S2	1		MN high
01:29	JD49497-1	1		(sample used for QC only; not part of login JD49400)
01:33	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:37	ZZZZZZ	1		
01:40	ZZZZZZ	1		
01:44	ZZZZZZ	1		
01:47	MA52843-CCVA20	1		
01:51	MA52843-CCB20	1		
01:54	ZZZZZZ	1		
01:58	ZZZZZZ	1		
02:02	ZZZZZZ	1		
02:05	ZZZZZZ	1		
02:09	ZZZZZZ	1		
02:12	MA52843-CCVA21	1		
02:16	MA52843-CCB21	1		
02:20	MP34511-MB1	1		
02:24	MP34511-B1	1		
02:27	MP34511-S1	1		
02:31	MP34511-S2	1		
02:34	JD49502-2	1		(sample used for QC only; not part of login JD49400)
02:37	ZZZZZZ	1		
02:40	ZZZZZZ	1		
02:44	ZZZZZZ	1		
02:47	MA52843-CCVA22	1		
02:50	MA52843-CCB22	1		
02:54	ZZZZZZ	1		
02:57	ZZZZZZ	1		
03:00	ZZZZZZ	1		
03:04	MP34511-S1	2		
03:07	MP34511-S2	2		
03:10	MA52843-CCVA23	1		
03:14	MA52843-CCB23	1		
03:17	ZZZZZZ	5		
03:21	ZZZZZZ	5		
03:24	JD49497-1	5		(sample used for QC only; not part of login JD49400)
03:29	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:32	ZZZZZZ	10		
03:36	ZZZZZZ	5		
03:40	MA52843-CCVA24	1		
03:43	MA52843-CCB24	1		
03:47	MP34528-MB1	1		
03:50	MP34528-B1	1		
03:54	MP34528-S1	1		
03:58	MP34528-S2	1		Mn high
04:01	JD49644-1	1		(sample used for QC only; not part of login JD49400)
04:05	ZZZZZZ	1		
04:08	ZZZZZZ	1		
04:12	ZZZZZZ	1		
04:15	MA52843-CCVA25	1		
04:19	MA52843-CCB25	1		
04:23	ZZZZZZ	1		
04:26	ZZZZZZ	1		
04:29	ZZZZZZ	1		
04:33	ZZZZZZ	1		
04:36	ZZZZZZ	1		
04:40	MA52843-CCVA26	1		
04:43	MA52843-CCB26	1		
04:46	ZZZZZZ	1		
04:50	ZZZZZZ	1		
04:53	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	
12:50	MA52843-ICVA1	1	X	X	X	X	X	X	X	X	X	
12:54	MA52843-ICV1	1	X	X	X	X	X	X	X	X	X	
13:11	MA52843-ICB1	1	X	X	X	X	X	X	X	X	X	
13:15	MA52843-CCVA1	1	X	X	X	X	X	X	X	X	X	
13:18	MA52843-CCB1	1	X	X	X	X	X	X	X	X	X	
13:22	ZZZZZZ	1										
13:25	MA52843-CRI1	1	X	X	X	X	X	X	X	X	X	
13:28	MA52843-ICSA1	1	X	X	X	X	X	X	X	X	X	
13:32	MA52843-ICSAB1	1	X	X	X	X	X	X	X	X	X	
13:38	ZZZZZZ	1										
13:44	MP34484-MB1	5								X	X	
13:48	ZZZZZZ	1										
13:51	ZZZZZZ	5										
13:54	MA52843-CCVA2	1	X	X	X	X	X	X	X	X	X	
13:58	MA52843-CCB2	1	X	X	X	X	X	X	X	X	X	
14:04	MP34484-B1	5								X	X	
14:07	MP34519-MB1	5		X		X		X	X	X	X	
14:11	MP34519-B1	5		X		X		X	X	X	X	
14:14	MP34519-S1	5				X				X		
14:19	MP34519-S2	5				X				X		
14:22	JD49472-3	5								X		(a)
14:25	MP34519-SD1	25				X				X		
14:29	MP34519-PS1	5										
14:32	ZZZZZZ	5										
14:35	MA52843-CCVA3	1	X	X	X	X	X	X	X	X	X	
14:39	MA52843-CCB3	1	X	X	X	X	X	X	X	X	X	
14:42	ZZZZZZ	5										
14:45	ZZZZZZ	5										
14:49	ZZZZZZ	5										
14:52	ZZZZZZ	5										
14:56	ZZZZZZ	5										
14:59	ZZZZZZ	5										
15:02	ZZZZZZ	5										
		Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	
15:06	ZZZZZZ	5										
15:09	ZZZZZZ	5										
15:13	MA52843-CCVA4	1	X	X	X	X	X	X	X	X	X	
15:16	MA52843-CCB4	1	X	X	X	X	X	X	X	X	X	
15:19	ZZZZZZ	5										
15:23	ZZZZZZ	5										
15:26	ZZZZZZ	5										
15:30	ZZZZZZ	5										
15:33	ZZZZZZ	5										
15:37	ZZZZZZ	5										
15:40	ZZZZZZ	25										
15:44	ZZZZZZ	20										
15:47	MA52843-CCVA5	1										
15:51	MA52843-CCB5	1										
15:54	ZZZZZZ	10										
15:58	ZZZZZZ	10										
16:02	MA52843-CCVA6	1	X	X	X	X	X	X	X	X	X	
16:06	MA52843-CCB6	1	X	X	X	X	X	X	X	X	X	
16:09	ZZZZZZ	5										
17:00	ZZZZZZ	100										
17:04	ZZZZZZ	20										
17:20	ZZZZZZ	20										
17:39	ZZZZZZ	100										
17:42	MP34519-S1	50		X				X	X		X	
17:47	MP34519-S2	50		X				X	X		X	
17:52	JD49472-3	50		X				X				(a)
18:04	MP34519-SD1	250		X				X	X		X	
18:08	MA52843-CCVA7	1	X	X	X	X	X	X	X	X	X	
18:11	MA52843-CCB7	1	X	X	X	X	X	X	X	X	X	
18:14	ZZZZZZ	20										
18:18	ZZZZZZ	10										
18:21	ZZZZZZ	50										
18:25	ZZZZZZ	10										
		Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	
18:29	ZZZZZZ	100										
18:33	ZZZZZZ	10										
18:37	ZZZZZZ	20										
18:40	ZZZZZZ	10										
18:44	MA52843-CCVA8	1	X	X	X	X	X	X	X	X	X	
18:48	MA52843-CCB8	1	X	X	X	X	X	X	X	X	X	
18:51	ZZZZZZ	200										
18:55	ZZZZZZ	10										
18:59	ZZZZZZ	50										
19:02	ZZZZZZ	10										
19:06	ZZZZZZ	50										
19:10	ZZZZZZ	10										
19:13	ZZZZZZ	200										
19:17	ZZZZZZ	10										
19:20	MA52843-CCVA9	1	X	X	X	X	X	X	X	X	X	
19:24	MA52843-CCB9	1	X	X	X	X	X	X	X	X	X	
19:28	ZZZZZZ	50										
19:31	ZZZZZZ	10										
19:35	ZZZZZZ	50										
19:39	ZZZZZZ	25										
19:42	ZZZZZZ	100										
19:46	MA52843-CCVA10	1	X	X	X	X	X	X	X	X	X	
19:49	MA52843-CCB10	1	X	X	X	X	X	X	X	X	X	
19:53	MP34484-S1	5								X		
19:57	MP34484-S2	5								X		
20:00	JD49193-5	5										(a)
20:04	MP34484-SD1	25								X		
20:08	MP34484-PS1	5								X		
20:11	JD49400-1	5								X		
20:15	ZZZZZZ	10										
20:19	MA52843-CCVA11	1	X	X	X	X	X	X	X	X	X	
20:22	MA52843-CCB11	1	X	X	X	X	X	X	X	X	X	
20:26	ZZZZZZ	5										
		Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	
20:29	ZZZZZZ	5										
20:33	ZZZZZZ	5										
20:36	ZZZZZZ	5										
20:40	MP34484-S1	50	X	X	X	X	X	X	X		X	
20:43	MP34484-S2	50	X	X	X	X	X	X	X		X	
20:46	JD49193-5	50						X				(a)
20:50	MP34484-SD1	250	X	X			X	X	X		X	
20:53	ZZZZZZ	10										
20:57	MA52843-CCVA12	1	X	X	X	X	X	X	X	X	X	
21:00	MA52843-CCB12	1	X	X	X	X	X	X	X	X	X	
21:03	MP34509-MB1	1	X	X	X	X	X	X	X	X	X	
21:07	MP34509-B1	1										
21:10	MP34509-S1	1	X	X		X	X	X	X	X		
21:14	MP34509-S2	1	X	X		X	X	X	X	X		
21:17	JD49494-1	1					X					(a)
21:20	ZZZZZZ	1										
21:23	ZZZZZZ	1										
21:27	ZZZZZZ	1										
21:30	MA52843-CCVA13	1	X	X	X	X	X	X	X	X	X	
21:34	MA52843-CCB13	1	X	X	X	X	X	X	X	X	X	
21:37	ZZZZZZ	1										
21:40	ZZZZZZ	1										
21:44	ZZZZZZ	1										
21:47	ZZZZZZ	1										
21:50	ZZZZZZ	1										
21:53	ZZZZZZ	1										
21:57	ZZZZZZ	1										
22:00	MP34509-B1	1	X	X	X	X	X	X	X	X	X	
22:03	ZZZZZZ	1										
22:07	MA52843-CCVA14	1	X	X	X	X	X	X	X	X	X	
22:10	MA52843-CCB14	1	X	X	X	X	X	X	X	X	X	
22:14	ZZZZZZ	1										
22:17	ZZZZZZ	1										
		Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	
22:21	ZZZZZZ	10										
22:24	MP34508-MB1	2	X		X		X		X			
22:28	ZZZZZZ	2										
22:32	MP34508-B1	2	X		X		X		X			
22:35	MP34508-S1	2	X		X		X		X			
22:39	MP34508-S2	2	X		X		X		X			
22:43	MA52843-CCVA15	1	X	X	X	X	X	X	X	X	X	
22:46	MA52843-CCB15	1	X	X	X	X	X	X	X	X	X	
22:50	JD49555-1	2	X				X		X			(a)
22:54	MP34508-SD1	10	X		X		X		X			
22:57	ZZZZZZ	2										
23:01	ZZZZZZ	2										
23:05	ZZZZZZ	2										
23:08	ZZZZZZ	2										
23:12	ZZZZZZ	2										
23:16	ZZZZZZ	2										
23:19	ZZZZZZ	2										
23:23	MA52843-CCVA16	1	X	X	X	X	X	X	X	X	X	
23:26	MA52843-CCB16	1	X	X	X	X	X	X	X	X	X	
23:30	ZZZZZZ	2										
23:33	ZZZZZZ	2										
23:37	ZZZZZZ	2										
23:41	ZZZZZZ	2										
23:44	ZZZZZZ	2										
23:48	ZZZZZZ	2										
23:51	ZZZZZZ	2										
23:54	ZZZZZZ	2										
23:58	ZZZZZZ	1										
00:02	ZZZZZZ	1										
00:16	MA52843-CCVA17	1	X	X	X	X	X	X	X	X	X	
00:20	MA52843-CCB17	1	X	X	X	X	X	X	X	X	X	
00:23	ZZZZZZ	10										
00:27	ZZZZZZ	10										
		Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	
00:30	ZZZZZZ	20										
00:34	ZZZZZZ	10										
00:37	ZZZZZZ	20										
00:41	MA52843-CCVA18	1	X	X	X	X	X	X	X	X	X	
00:44	MA52843-CCB18	1	X	X	X	X	X	X	X	X	X	
00:48	ZZZZZZ	10										
00:51	ZZZZZZ	10										
00:55	ZZZZZZ	50										
00:58	ZZZZZZ	50										
01:02	ZZZZZZ	20										
01:05	ZZZZZZ	50										
01:09	MA52843-CCVA19	1	X	X	X	X	X	X	X	X	X	
01:12	MA52843-CCB19	1	X	X	X	X	X	X	X	X	X	
01:16	MP34510-MB1	1	X				X		X			
01:19	MP34510-B1	1	X				X		X			
01:22	MP34510-S1	1	X				X					
01:26	MP34510-S2	1	X				X					
01:29	JD49497-1	1	X				X					(a)
01:33	ZZZZZZ	1										
01:37	ZZZZZZ	1										
01:40	ZZZZZZ	1										
01:44	ZZZZZZ	1										
01:47	MA52843-CCVA20	1	X	X	X	X	X	X	X	X	X	
01:51	MA52843-CCB20	1	X	X	X	X	X	X	X	X	X	
01:54	ZZZZZZ	1										
01:58	ZZZZZZ	1										
02:02	ZZZZZZ	1										
02:05	ZZZZZZ	1										
02:09	ZZZZZZ	1										
02:12	MA52843-CCVA21	1	X	X	X	X	X	X	X	X	X	
02:16	MA52843-CCB21	1	X	X	X	X	X	X	X	X	X	
02:20	MP34511-MB1	1	X				X		X			
02:24	MP34511-B1	1	X				X		X			
		Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	
02:27	MP34511-S1	1	X				X					
02:31	MP34511-S2	1	X				X					
02:34	JD49502-2	1	X				X		X			(a)
02:37	ZZZZZZ	1										
02:40	ZZZZZZ	1										
02:44	ZZZZZZ	1										
02:47	MA52843-CCVA22	1	X	X	X	X	X	X	X	X	X	
02:50	MA52843-CCB22	1	X	X	X	X	X	X	X	X	X	
02:54	ZZZZZZ	1										
02:57	ZZZZZZ	1										
03:00	ZZZZZZ	1										
03:04	MP34511-S1	2							X			
03:07	MP34511-S2	2							X			
03:10	MA52843-CCVA23	1	X	X	X	X	X	X	X	X	X	
03:14	MA52843-CCB23	1	X	X	X	X	X	X	X	X	X	
03:17	ZZZZZZ	5										
03:21	ZZZZZZ	5										
03:24	JD49497-1	5							X			(a)
03:29	ZZZZZZ	5										
03:32	ZZZZZZ	10										
03:36	ZZZZZZ	5										
03:40	MA52843-CCVA24	1	X	X	X	X	X	X	X	X	X	
03:43	MA52843-CCB24	1	X	X	X	X	X	X	X	X	X	
03:47	MP34528-MB1	1	X			X	X		X			
03:50	MP34528-B1	1	X			X	X		X			
03:54	MP34528-S1	1	X			X	X		X			
03:58	MP34528-S2	1	X			X	X					
04:01	JD49644-1	1					X					(a)
04:05	ZZZZZZ	1										
04:08	ZZZZZZ	1										
04:12	ZZZZZZ	1										
04:15	MA52843-CCVA25	1	X	X	X	X	X	X	X	X	X	
04:19	MA52843-CCB25	1	X	X	X	X	X	X	X	X	X	
		Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Element: Dilution	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn
04:23	ZZZZZZ	1									
04:26	ZZZZZZ	1									
04:29	ZZZZZZ	1									
04:33	ZZZZZZ	1									
04:36	ZZZZZZ	1									
04:40	MA52843-CCVA26	1	X	X	X	X	X	X	X	X	X
04:43	MA52843-CCB26	1	X	X	X	X	X	X	X	X	X
04:46	ZZZZZZ	1									
04:50	ZZZZZZ	1									
04:53	ZZZZZZ	1									

(a) Sample used for QC only; not part of login JD49400.

Element:	Al	Ba	Ca	Cu	Fe	Pb	Mn	Ag	Zn

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
11:54	MA52843-STD1	100	100	100	100	100	100	100	100
11:57	MA52843-STD2	100	100	100	100	100	100	100	100
12:00	MA52843-STD3	100	100	100	100	100	100	100	100
12:04	MA52843-STD4	100.579	99.859	98.953	98.797	101.109	98.805	99.081	99.724
12:08	MA52843-STD5	100.1	100.286	101.623	103.004	100.844	99.722	100.146	99.179
12:11	MA52843-STD6	100.321	100.322	102.61	102.758	102.801	100.977	101.409	101.692
12:15	MA52843-STD7	99.532	99.06	102.711	103.567	101.286	101.448	103.26	100.972
12:18	MA52843-STD8	100.65	98.253	102.135	103.531	101.624	102.272	101.338	102.008
12:22	MA52843-STD9	98.385	98.432	102.382	103.994	100.519	101.65	102.987	100.318
12:25	MA52843-STD10	100.146	99.936	103.126	105.041	102.392	103.342	104.666	103.069
12:29	MA52843-STD11	98.811	102.467	105.332	107.824	103.634	101.435	103.232	101.295
12:33	MA52843-STD12	97.326	101.424	106.367	107.236	101.492	102.207	102.238	99.688
12:44	MA52843-STD13	100	100	100	100	100	100	100	100
12:47	MA52843-STD14	100	100	100	100	100	100	100	100
12:50	MA52843-ICVA1	100.217	102.431	101.142	101.427	101.252	101.058	99.161	102.142
12:54	MA52843-ICV1	100.284	100.233	96.782	98.307	101.774	99.412	100.115	101.754
13:11	MA52843-ICB1	99.783	96.774	96.382	96.251	97.234	97.98	96.616	97.089
13:15	MA52843-CCVA1	98.86	101.855	105.514	105.202	98.423	100.779	96.823	98.33
13:18	MA52843-CCB1	98.959	98.419	98.879	99.304	98.825	100.515	97.252	99.625
13:22	ZZZZZZ	98.036	99.01	98.482	98.43	99.467	98.982	98.684	100.055
13:25	MA52843-CRI1	99.382	99.211	97.995	97.504	100.558	100.222	99.265	100.919
13:28	MA52843-ICSA1	89.557	98.665	98.497	102.871	94.699	87.908	87.422	89.055
13:32	MA52843-ICSAB1	84.344	89.852	88.323	90.302	91.377	84.716	85.742	86.788
13:38	ZZZZZZ	89.502	89.611	87.816	90.987	90.066	89.472	91.275	91.024
13:44	MP34484-MB1	93.046	92.708	87.777	90.437	92.614	92.37	92.177	94.169
13:48	ZZZZZZ	93.09	88.249	86.404	83.453	95.099	95.833	94.796	94.875
13:51	ZZZZZZ	87.33	101.111	99.679	106.639	90.541	91.997	93.966	89.463
13:54	MA52843-CCVA2	92.277	94.246	95.311	97.791	94.487	95.491	96.767	95.216
13:58	MA52843-CCB2	92.671	92.249	89.873	91.65	94.594	91.905	93.15	95.084
14:04	MP34484-B1	92.324	92.978	91.179	92.276	94.09	93.149	93.302	94.731
14:07	MP34519-MB1	91.945	91.847	86.967	89.338	93.314	90.096	91.252	93.506
14:11	MP34519-B1	92.061	91.062	88.479	91.363	93.598	91.438	92.136	93.689
14:14	MP34519-S1	94.944	104.873	104.633	107.548	99.342	101.385	101.664	97.868

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
14:19	MP34519-S2	96.739	108.435	106.467	107.046	103.665	102.889	100.468	100.999
14:22	JD49472-3	96.338	106.457	104.245	105.345	103.181	102.377	102.178	101.385
14:25	MP34519-SD1	100.324	102.432	100.676	101.297	104.823	105.009	102.51	104.224
14:29	MP34519-PS1	98.684	107.306	104.454	104.853	104.914	102.435	99.788	102.33
14:32	ZZZZZZ	98.582	97.57	96.099	95.255	101.359	101.411	99.252	102.107
14:35	MA52843-CCVA3	96.11	100.847	97.618	99.556	100.33	99.955	99.34	102.278
14:39	MA52843-CCB3	98.387	100.198	96.911	98.386	101.271	99.739	98.975	101.85
14:42	ZZZZZZ	95.397	107.816	104.08	106.307	101.681	100.423	99.925	99.589
14:45	ZZZZZZ	99.054	110.148	107.385	107.313	105.338	105.031	102.469	103.676
14:49	ZZZZZZ	96.514	106.676	102.748	104.29	104.27	103.627	102.106	102.484
14:52	ZZZZZZ	97.216	106.085	101.602	102.521	103.95	101.711	100.302	101.536
14:56	ZZZZZZ	96.179	104.855	101.437	101.81	102.896	101.622	100.354	100.821
14:59	ZZZZZZ	96.245	104.275	100.461	101.717	102.084	101.58	99.287	100.527
15:02	ZZZZZZ	94.07	102.474	101.595	103.933	100.579	101.474	100.416	98.124
15:06	ZZZZZZ	89.697	99.44	96.667	100.92	96.905	95.261	98.373	92.934
15:09	ZZZZZZ	83.199	92.261	90.123	96.571	89.562	88.75	93.83	85.797
15:13	MA52843-CCVA4	81.593	83.077	81.706	85.896	85.018	84.575	87.11	86.287
15:16	MA52843-CCB4	85.741	84.446	81.774	84.394	86.977	85.119	87.507	88.237
15:19	ZZZZZZ	87.765	99.078	95.96	100.668	92.71	91.697	94.66	90.218
15:23	ZZZZZZ	No results reported for the elements associated with this internal standard.							
15:26	ZZZZZZ	No results reported for the elements associated with this internal standard.							
15:30	ZZZZZZ	92.251	101.295	99.026	100.043	98.711	96.61	96.804	96.131
15:33	ZZZZZZ	91.807	101.847	99.435	101.036	99.548	99.289	96.235	96.908
15:37	ZZZZZZ	92.421	102.499	98.261	101.247	100.147	99.28	98.38	97.391
15:40	ZZZZZZ	96.586	99.622	96.66	96.732	100.246	101.24	99.242	100.239
15:44	ZZZZZZ	95.275	99.517	98.906	98.271	100.308	101.7	99.793	99.577
15:47	MA52843-CCVA5	No results reported for the elements associated with this internal standard.							
15:51	MA52843-CCB5	No results reported for the elements associated with this internal standard.							
15:54	ZZZZZZ	98.063	104.701	100.404	100.537	100.092	100.129	98.624	99.958
15:58	ZZZZZZ	96.645	101.388	97.89	96.199	100.349	100.17	97.109	99.415
16:02	MA52843-CCVA6	93.686	96.369	94.938	96.301	96.367	96.271	95.593	97.359
16:06	MA52843-CCB6	96.978	96.638	94.053	94.673	97.695	97.124	96.593	98.049
16:09	ZZZZZZ	94.916	109.215	102.824	103.141	102.108	99.153	95.481	98.744

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
17:00	ZZZZZZ	92.432	83.284	87.058	83.931	89.299	91.602	88.255	88.843
17:04	ZZZZZZ	94.71	94.161	94.947	92.027	92.074	97.847	92.252	92.584
17:20	ZZZZZZ	96.072	94.54	95.572	92.438	91.636	94.676	91.348	91.576
17:39	ZZZZZZ	97.564	86.403	91.774	86.592	91.643	96.05	90.815	92.565
17:42	MP34519-S1	97.546	94.701	96.36	91.921	93.656	97.061	92.001	94.405
17:47	MP34519-S2	98.191	95.388	96.139	91.216	94.846	97.004	91.213	94.613
17:52	JD49472-3	97.316	94.486	95.617	90.818	93.902	96.278	91.194	93.925
18:04	MP34519-SD1	97.387	87.301	92.369	87.535	91.716	94.929	90.143	92.779
18:08	MA52843-CCVA7	93.599	93.641	95.516	93.083	89.983	92.635	89.363	90.728
18:11	MA52843-CCB7	94.881	91.562	90.948	89.776	90.671	93.414	90.968	91.759
18:14	ZZZZZZ	94.924	95.877	96.812	94.175	93.682	96.092	91.985	93.339
18:18	ZZZZZZ	96.017	99.937	97.709	95.806	95.219	95.663	91.961	93.851
18:21	ZZZZZZ	95.949	91.884	91.046	87.897	93.544	94.114	90.385	93.186
18:25	ZZZZZZ	94.579	94.829	94.262	92.788	92.908	92.851	89.089	90.905
18:29	ZZZZZZ	94.887	89.574	88.186	84.311	91.746	92.394	88.315	92.388
18:33	ZZZZZZ	92.786	94.348	93.629	92.425	90.604	91.798	89.615	90.029
18:37	ZZZZZZ	93.543	92.707	90.381	87.9	91.569	92.503	89.185	91.717
18:40	ZZZZZZ	91.543	95.219	94.589	93.755	91.753	93.045	89.798	90.211
18:44	MA52843-CCVA8	91.235	90.862	91.217	92.354	89.378	91.362	89.88	90.583
18:48	MA52843-CCB8	92.772	90.952	90.613	89.724	91.439	92.289	90.077	91.971
18:51	ZZZZZZ	97.184	91.275	91.095	87.05	95.701	96.645	92.5	95.862
18:55	ZZZZZZ	94.649	100.456	99.428	98.192	95.322	95.998	90.296	94.117
18:59	ZZZZZZ	95.388	93.077	90.945	86.947	93.891	95.587	90.566	94.502
19:02	ZZZZZZ	91.794	97.186	95.8	95.165	92.33	93.986	90.656	91.114
19:06	ZZZZZZ	93.342	91.819	90.782	87.164	92.724	93.49	88.78	92.93
19:10	ZZZZZZ	91.565	97.008	96.707	97.769	93.527	94.019	90.661	90.228
19:13	ZZZZZZ	87.829	83.862	80.096	76.957	86.518	85.801	81.395	86.723
19:17	ZZZZZZ	83.484	88.356	86.817	90.598	83.996	84.165	84.623	82.994
19:20	MA52843-CCVA9	79.864	78.638	77.616	80.185	79.084	78.455	79.722	79.856
19:24	MA52843-CCB9	82.013	78.62	76.892	77.607	79.423	80.223	80.083	80.295
19:28	ZZZZZZ	86.521	83.385	83.043	81.679	82.77	84.575	82.646	83.575
19:31	ZZZZZZ	84.592	89.706	89.914	93.313	84.716	87.525	86.85	83.076
19:35	ZZZZZZ	85.545	83.294	81.41	79.198	84.38	84.392	81.434	84.761

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
19:39	ZZZZZZ	81.716	81.094	80.169	78.829	80.678	81.225	80.859	80.746
19:42	ZZZZZZ	81.715	77.248	75.69	74.16	80.365	80.144	78.47	80.575
19:46	MA52843-CCVA10	78.183	78.202	79.115	82.023	77.594	78.324	78.651	77.883
19:49	MA52843-CCB10	82.154	77.666	76.921	77.397	79.146	78.937	79.528	79.993
19:53	MP34484-S1	80.749	86.156	87.399	88.052	80.835	84.677	82.149	79.828
19:57	MP34484-S2	82.721	88.413	88.239	87.353	84.386	86.738	85.061	83.19
20:00	JD49193-5	86.904	90.69	89.037	89.208	86.923	88.432	87.033	85.429
20:04	MP34484-SD1	89.758	86.332	86.337	83.787	87.399	90.371	86.345	87.473
20:08	MP34484-PS1	87.306	91.414	90.212	90.899	87.54	89.482	86.859	86.286
20:11	JD49400-1	87.245	85.111	82.281	81.327	85.274	84.439	83.016	85.731
20:15	ZZZZZZ	0.512 !	0.477 !	0.295 !	0.247 !	0.557 !	0.321 !	0.252 !	0.297 !
20:19	MA52843-CCVA11	87.447	86.737	86.707	84.844	86.17	89.437	86.471	87.094
20:22	MA52843-CCB11	88.346	87.127	85.323	85.353	86.609	87.587	86.775	87.252
20:26	ZZZZZZ	90.984	107.328	103.93	102.488	91.69	90.041	86.896	89.372
20:29	ZZZZZZ	88.297	94.328	93.781	92.935	89.667	91.247	87.082	88.19
20:33	ZZZZZZ	89.623	96.417	95.233	94.53	91.133	91.148	88.606	89.41
20:36	ZZZZZZ	89.859	97.764	97.185	95.956	92.394	92.914	89.775	90.083
20:40	MP34484-S1	91.824	89.498	89.393	86.481	91.691	93.209	89.013	91.892
20:43	MP34484-S2	92.096	90.688	89.874	86.625	91.884	94.178	89.085	92.089
20:46	JD49193-5	92.657	91.124	90.539	88.529	91.93	93.784	89.95	92.743
20:50	MP34484-SD1	92.809	89.088	89.1	84.775	92.031	94.229	88.982	93.559
20:53	ZZZZZZ	0.616 !	0.865 !	0.477 !	0.395 !	0.544 !	0.274 !	0.316 !	0.281 !
20:57	MA52843-CCVA12	88.995	89.527	88.32	87.136	88.599	90.112	87.308	89.446
21:00	MA52843-CCB12	90.6	89.162	88.891	87.513	89.179	91.11	87.661	89.613
21:03	MP34509-MB1	91.234	89.479	88.302	87.801	90.091	92.107	89.333	90.199
21:07	MP34509-B1	No results reported for the elements associated with this internal standard.							
21:10	MP34509-S1	83.184	84.889	82.395	82.836	83.677	83.116	80.913	84.812
21:14	MP34509-S2	78.875	82.079	81.959	82.566	81.455	83.04	81.723	82.881
21:17	JD49494-1	81.893	83.377	82.612	81.284	84.181	84.601	83.71	84.416
21:20	ZZZZZZ	80.105	86.613	86.978	90.026	82.916	84.369	83.588	81.988
21:23	ZZZZZZ	No results reported for the elements associated with this internal standard.							
21:27	ZZZZZZ	89.404	86.347	85.144	86.038	86.754	87.033	86.143	87.331
21:30	MA52843-CCVA13	88.357	89.947	87.503	87.986	88.391	87.316	86.582	89.347

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
21:34	MA52843-CCB13	86.144	83.678	83.505	84.664	85.036	85.367	85.291	85.912
21:37	ZZZZZZ	90.999	79.611	80.599	76.089	89.118	90.797	87.469	90.148
21:40	ZZZZZZ	83.966	90.597	90.815	95.088	84.197	85.998	84.943	85.37
21:44	ZZZZZZ	86.837	89.031	85.608	85.242	87.821	86.366	85.216	87.487
21:47	ZZZZZZ	83.044	86.064	82.09	83.058	84.786	86.058	84.091	85.423
21:50	ZZZZZZ	86.145	88.265	85.384	87.782	87.225	88.878	87.983	87.551
21:53	ZZZZZZ	85.375	87.467	83.259	83.543	86.186	86.102	85.582	86.958
21:57	ZZZZZZ	84.933	88.522	85.131	86.544	85.729	84.787	85.249	86.504
22:00	MP34509-B1	86.424	88.223	89.621	90.938	88.7	89.257	88.631	89.499
22:03	ZZZZZZ	0.72 !	0.871 !	0.567 !	0.39 !	0.638 !	0.35 !	0.341 !	0.3 !
22:07	MA52843-CCVA14	87.242	89.541	87.942	91.9	88.251	87.663	87.299	89.162
22:10	MA52843-CCB14	85.765	85.049	83.7	84.906	86.196	85.359	85.826	86.376
22:14	ZZZZZZ	0.665 !	0.785 !	0.484 !	0.351 !	0.592 !	0.299 !	0.219 !	0.306 !
22:17	ZZZZZZ	90.816	76.907	79.692	76.356	90.012	90.567	89.227	90.379
22:21	ZZZZZZ	93.509	85.968	87.161	87.352	91.085	91.525	89.124	91.757
22:24	MP34508-MB1	86.356	85.884	86.173	91.767	85.693	85.038	85.921	85.852
22:28	ZZZZZZ	84.301	85.217	80.508	85.976	85.384	81.934	83.302	85.432
22:32	MP34508-B1	86.216	86.118	81.574	86.424	86.511	82.81	85.061	87.378
22:35	MP34508-S1	81.57	82.954	76.792	80.831	84.496	79.949	82.744	84.792
22:39	MP34508-S2	79.734	81.23	75.762	79.878	82.74	78.688	81.399	83.335
22:43	MA52843-CCVA15	85.792	85.355	83.019	84.285	87.048	87.351	87.141	87.333
22:46	MA52843-CCB15	85.127	84.407	84.237	86.324	86.06	86.141	85.984	86.724
22:50	JD49555-1	83.212	83.811	76.647	78.566	85.856	78.492	80.076	86.048
22:54	MP34508-SD1	85.873	81.981	77.971	78.684	86.419	84.92	85.21	86.733
22:57	ZZZZZZ	78.025	81.411	78.143	81.938	81.064	80.056	81.62	81.692
23:01	ZZZZZZ	82.588	83.715	76.216	80.256	85.666	79.75	83.204	85.382
23:05	ZZZZZZ	80.783	81.687	74.519	79.432	84.315	77.581	81.046	83.221
23:08	ZZZZZZ	78.308	79.947	73.351	78.014	82.828	77.434	79.68	82.125
23:12	ZZZZZZ	76.805	79.727	73.574	78.177	82.318	77.027	80.978	81.408
23:16	ZZZZZZ	77.362	80.521	74.595	80.385	83.019	77.965	80.858	81.107
23:19	ZZZZZZ	80.159	82.217	75.934	80.441	84.716	78.251	81.937	82.695
23:23	MA52843-CCVA16	84.154	85.95	82.546	84.388	87.374	85.48	86.024	87.613
23:26	MA52843-CCB16	85.427	83.943	83.428	85.567	85.907	84.259	86.363	86.478

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
23:30	ZZZZZZ	81.006	83.627	75.82	80.287	84.512	77.932	80.203	84.568
23:33	ZZZZZZ	77.045	78.412	73.642	78.477	80.367	76.587	79.256	78.937
23:37	ZZZZZZ	81.219	82.723	76.09	81.174	85.276	79.462	82.719	83.979
23:41	ZZZZZZ	83.23	81.698	74.279	79.417	85.924	76.83	80.973	83.249
23:44	ZZZZZZ	79.56	81.27	75.346	80.819	83.902	78.026	81.541	82.647
23:48	ZZZZZZ	78.377	82.05	75.233	81.571	83.639	77.597	81.308	82.199
23:51	ZZZZZZ	81.246	83.99	77.648	83.353	87.434	80.999	84.389	85.892
23:54	ZZZZZZ	81.515	84.345	78.793	83.839	86.711	80.492	83.544	84.694
23:58	ZZZZZZ	0.65 !	0.878 !	0.595 !	0.479 !	1.316 !	0.29 !	0.234 !	0.418 !
00:02	ZZZZZZ	0.627 !	0.331 !	0.249 !	0.263 !	1.211 !	0.252 !	0.273 !	0.341 !
00:16	MA52843-CCVA17	89.907	93.458	97.67	106.793	88.983	88.479	90.019	89.756
00:20	MA52843-CCB17	90.988	89.613	88.129	89.725	89.438	87.883	88.685	90.221
00:23	ZZZZZZ	90.418	88.736	84.41	84.331	90.912	87.652	87.813	91.177
00:27	ZZZZZZ	89.342	85.804	83.076	83.405	88.75	86.941	86.542	89.057
00:30	ZZZZZZ	0.558 !	1.015 !	0.643 !	0.431 !	0.83 !	0.247 !	0.28 !	0.296 !
00:34	ZZZZZZ	88.498	83.884	80.902	82.192	87.095	85.728	86.805	87.561
00:37	ZZZZZZ	89.336	82.634	82.29	83.237	88.074	87.333	88.406	89.425
00:41	MA52843-CCVA18	86.585	89.098	91.927	97.556	87.128	87.605	87.13	88.256
00:44	MA52843-CCB18	88.444	88.454	85.642	88.301	89.09	86.583	86.989	89.769
00:48	ZZZZZZ	90.854	87.32	84.042	83.991	90.809	89.351	88.803	91.211
00:51	ZZZZZZ	89.068	86.475	83.602	84.035	88.216	86.841	87.208	88.479
00:55	ZZZZZZ	90.676	80.9	82.136	82.64	90.13	88.792	89.268	90.079
00:58	ZZZZZZ	91.187	82.266	82.992	82.963	89.888	88.434	88.073	90.464
01:02	ZZZZZZ	88.192	83.392	82.429	83.065	87.539	86.167	86.847	88.197
01:05	ZZZZZZ	89.408	79.801	81.548	82.465	88.304	86.983	88.094	89.224
01:09	MA52843-CCVA19	84.999	89.059	92.555	98.451	86.142	86.554	87.108	86.814
01:12	MA52843-CCB19	87.58	87.712	86.15	89.86	87.479	85.816	86.319	88.037
01:16	MP34510-MB1	89.126	88.118	83.79	86.878	88.777	87.234	87.996	89.475
01:19	MP34510-B1	83.826	85.543	80.557	84.487	85.9	80.676	81.05	87.761
01:22	MP34510-S1	75.144	78.068	74.84	78.886	79.091	76.417	78.414	80.199
01:26	MP34510-S2	74.941	77.343	73.919	78.836	78.614	75.164	77.563	79.541
01:29	JD49497-1	76.25	77.55	73.159	76.113	79.121	76.519	78.409	80.13
01:33	ZZZZZZ	75.43	77.011	72.977	76.082	79.15	76.7	78.617	79.404

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
01:37	ZZZZZZ	77.176	76.959	72.524	74.953	79.875	75.472	78.147	80.187
01:40	ZZZZZZ	76.312	76.24	71.15	76.514	79.014	75.855	78.491	79.258
01:44	ZZZZZZ	77.655	78.126	73.252	77.461	80.795	76.844	79.154	81.264
01:47	MA52843-CCVA20	76.589	79.409	78.08	82.963	79.048	75.153	78.138	80.4
01:51	MA52843-CCB20	76.9	76.234	72.261	76.894	78.352	75.575	76.858	78.989
01:54	ZZZZZZ	75.863	81.491	76.028	83.815	80.534	74.645	76.599	77.778
01:58	ZZZZZZ	72.746	74.26	70.236	74.633	74.421	73.536	75.387	76.399
02:02	ZZZZZZ	75.034	76.682	72.33	75.46	77.982	76.747	79.333	79.005
02:05	ZZZZZZ	74.723	78.672	72.227	77.308	77.757	73.619	76.902	77.858
02:09	ZZZZZZ	77.716	79.74	74.723	79.211	80.541	77.733	79.768	82.096
02:12	MA52843-CCVA21	79.37	80.955	76.328	80.468	81.512	76.665	78.952	82.568
02:16	MA52843-CCB21	76.95	77.645	72.927	77.16	79.221	76.61	78.523	80.017
02:20	MP34511-MB1	80.316	77.187	72.457	75.242	80.491	77.961	80.403	81.539
02:24	MP34511-B1	79.596	81.149	77.614	83.006	82.203	78.886	79.594	83.602
02:27	MP34511-S1	74.492	76.725	73.947	79.028	78.057	75.72	78.633	78.838
02:31	MP34511-S2	74.163	76.284	72.59	76.305	78.107	75.359	76.869	79.57
02:34	JD49502-2	73.601	75.125	70.823	74.677	77.605	75.168	77.646	78.418
02:37	ZZZZZZ	72.127	73.927	70.457	74.02	75.616	75.22	77.532	76.932
02:40	ZZZZZZ	75.154	77.772	73.367	76.921	79.511	77.104	78.754	80.482
02:44	ZZZZZZ	75.566	77.006	72.302	76.839	78.51	74.434	77.486	79.057
02:47	MA52843-CCVA22	74.709	78.566	75.893	81.752	77.817	73.801	76.681	77.952
02:50	MA52843-CCB22	74.898	74.262	70.16	76.365	75.88	73.502	76.746	77.057
02:54	ZZZZZZ	74.412	75.566	71.572	75.623	76.856	75.509	77.661	78.422
02:57	ZZZZZZ	75.663	76.366	71.958	75.001	77.565	74.247	76.751	78.292
03:00	ZZZZZZ	71.796	75.786	69.223	74.392	74.568	71.403	73.395	75.644
03:04	MP34511-S1	75.224	75.288	72.411	76.438	79.018	75.083	76.345	79.417
03:07	MP34511-S2	74.317	74.894	71.448	75.688	78.461	74.831	77.136	79.316
03:10	MA52843-CCVA23	72.161	75.814	73.827	79.665	76.774	73.939	75.926	77.462
03:14	MA52843-CCB23	72.618	73.895	69.669	75.112	75.536	72.869	75.689	76.572
03:17	ZZZZZZ	0.5 !	0.742 !	0.463 !	0.438 !	0.521 !	0.247 !	0.199 !	0.233 !
03:21	ZZZZZZ	0.485 !	0.298 !	0.228 !	0.188 !	0.577 !	0.203 !	0.191 !	0.237 !
03:24	JD49497-1	79.681	73.057	69.043	70.788	79.263	76.223	76.55	80.267
03:29	ZZZZZZ	78.422	73.724	70.752	72.073	78.88	75.852	76.82	79.77

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
03:32	ZZZZZZ	78.426	79.163	78.695	82.176	79.382	76.84	78.151	79.353
03:36	ZZZZZZ	76.573	75.077	71.422	74.347	78.373	75.46	76.269	78.39
03:40	MA52843-CCVA24	74.398	76.307	74.184	80.64	76.746	74.324	75.698	77.212
03:43	MA52843-CCB24	74	74.533	70.581	74.041	76.289	73.041	74.872	76.573
03:47	MP34528-MB1	74.212	73.711	68.363	72.894	75.48	73.449	75.47	75.744
03:50	MP34528-B1	75.501	77.301	73.741	77.687	78.13	75.316	77.26	79.489
03:54	MP34528-S1	71.597	75.402	70.544	75.534	75.981	72.136	74.903	77.434
03:58	MP34528-S2	71.303	74.842	70.385	75.531	75.575	73.418	74.942	76.577
04:01	JD49644-1	73.265	75.323	70.026	73.315	77.06	73.789	75.945	77.738
04:05	ZZZZZZ	69.851	74.778	68.489	72.037	73.233	70.23	72.552	73.52
04:08	ZZZZZZ	69.114	74.28	67.35	70.326	73.107	69.802	71.43	73.376
04:12	ZZZZZZ	69.184	73.954	67.462	71.435	72.255	69.675	72.001	72.66
04:15	MA52843-CCVA25	73.089	77.619	72.726	79.372	77.976	73.012	76.685	78.129
04:19	MA52843-CCB25	75.973	75.248	70.743	76.019	77.785	75.017	77.067	78.18
04:23	ZZZZZZ	69.487	74.87	66.291	70.899	73.231	69.709	71.621	73.664
04:26	ZZZZZZ	69.901	74.084	67.727	72.653	73.087	69.746	72.953	73.601
04:29	ZZZZZZ	72.606	77.492	69.291	73.482	77.762	72.039	74.858	77.415
04:33	ZZZZZZ	75.433	78.131	70.609	75.415	79.243	75.159	76.513	79.666
04:36	ZZZZZZ	75.227	78.606	72.388	77.909	80.704	75.813	76.565	80.782
04:40	MA52843-CCVA26	77.719	81.884	77.81	85.835	81.497	76.076	78.417	82.784
04:43	MA52843-CCB26	78.21	78.569	73.922	80.315	80.625	77.367	79.517	82.109
04:46	ZZZZZZ	80.205	81.048	75.458	78.937	82.954	77.892	79.908	83.741
04:50	ZZZZZZ	82.039	82.46	76.651	81.581	83.818	79.481	83.258	84.286
04:53	ZZZZZZ	82.38	82.283	76.939	81.046	85.164	79.048	81.381	85.142

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#1	Lithium	60-125 %	60-125 %
Istd#2	Scandium (45-1)	60-125 %	60-125 %
Istd#3	Scandium (45-2)	60-125 %	60-125 %
Istd#4	Scandium (45-3)	60-125 %	60-125 %
Istd#5	Germanium (72-1)	60-125 %	60-125 %
Istd#6	Germanium (72-2)	60-125 %	60-125 %
Istd#7	Germanium (72-3)	60-125 %	60-125 %
Istd#8	Germanium (74-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
11:54	MA52843-STD1	100	100	100	100	100	100	100	100
11:57	MA52843-STD2	100	100	100	100	100	100	100	100
12:00	MA52843-STD3	100	100	100	100	100	100	100	100
12:04	MA52843-STD4	99.083	99.406	98.95	98.009	99.095	98.974	98.994	100.045
12:08	MA52843-STD5	101.071	101.466	98.428	99.643	100.393	98.39	100.843	99.501
12:11	MA52843-STD6	101.589	102.474	98.183	99.264	100.812	98.992	101.103	99.509
12:15	MA52843-STD7	101.946	102.995	97.097	99.685	102.267	96.981	101.838	98.72
12:18	MA52843-STD8	102.511	103.255	96.865	97.609	101.373	95.352	101.331	98.802
12:22	MA52843-STD9	103.308	103.001	95.074	99.352	102.052	96.625	102.992	98.323
12:25	MA52843-STD10	105.215	104.186	96.72	99.321	102.549	98.359	103.403	99.379
12:29	MA52843-STD11	102.356	103.496	96.104	96.876	99.876	96.529	100.912	99.689
12:33	MA52843-STD12	101.934	102.68	92.898	96.826	97.558	95.271	99.234	98.88
12:44	MA52843-STD13	100	100	100	100	100	100	100	100
12:47	MA52843-STD14	100	100	100	100	100	100	100	100
12:50	MA52843-ICVA1	100.17	99.546	95.312	94.492	97.035	97.321	99.283	99.852
12:54	MA52843-ICV1	99.563	99.258	99.075	98.614	100.167	100.223	100.548	99.502
13:11	MA52843-ICB1	97.88	95.977	97.423	99.778	96.862	99.233	98.883	99.06
13:15	MA52843-CCVA1	99.971	98.033	94.634	95.96	96.612	95.656	98.554	98.103
13:18	MA52843-CCB1	98.389	97.9	96.704	98.048	98.957	97.995	100.267	98.106
13:22	ZZZZZZ	98.831	98.484	97.908	98.134	99.238	97.989	99.694	97.824
13:25	MA52843-CRI1	99.767	99.037	98.401	98.747	99.7	98.486	100.43	98.757
13:28	MA52843-ICSA1	85.338	85.492	81.749	79.265	79.967	78.796	74.492	93.417
13:32	MA52843-ICSAB1	83.797	83.793	79.614	77.508	79.175	76.477	72.867	90.645
13:38	ZZZZZZ	89.013	90.084	90.219	91.173	91.881	92.181	91.004	92.952
13:44	MP34484-MB1	91.771	92.633	92.451	92.534	93.501	93.67	92.473	94.853
13:48	ZZZZZZ	95.495	94.717	94.114	95.031	95.788	95.46	96.04	95.416
13:51	ZZZZZZ	90.142	91.81	85.562	85.796	89.691	88.718	88.752	94.594
13:54	MA52843-CCVA2	95.703	95.827	89.929	91.805	94.668	91.591	94.132	93.824
13:58	MA52843-CCB2	91.633	92.719	91.867	92.886	94.391	93.452	93.695	95.02
14:04	MP34484-B1	93.22	93.977	91.604	91.253	93.23	92.958	93.281	95.281
14:07	MP34519-MB1	89.591	91.991	91.677	90.966	92.966	92.522	90.793	94.813
14:11	MP34519-B1	90.965	93.396	89.759	90.126	92.85	91.805	91.715	94.117
14:14	MP34519-S1	99.072	98.449	92.373	92.544	96.043	93.049	96.767	97.65

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
14:19	MP34519-S2	99.48	98.505	94.828	93.133	96.393	95.053	96.752	98.495
14:22	JD49472-3	100.75	99.925	95.42	95.575	97.876	96.635	97.832	98.858
14:25	MP34519-SD1	103.801	101.117	99.907	99.779	101.307	99.861	103.627	100.755
14:29	MP34519-PS1	100.246	98.713	95.33	95.054	96.67	95.738	97.939	98.991
14:32	ZZZZZZ	100.931	99.563	97.459	99.441	100.442	98.045	101.475	98.83
14:35	MA52843-CCVA3	99.831	98.796	94.854	94.482	96.783	96.342	97.681	98.432
14:39	MA52843-CCB3	100.186	99.125	97.884	98.431	100.26	99.039	100.775	98.449
14:42	ZZZZZZ	97.735	97.902	93.778	94.021	96.384	94.968	96.154	99.516
14:45	ZZZZZZ	102.747	100.602	97.275	97.172	97.579	98.74	100.142	100.724
14:49	ZZZZZZ	99.75	99.135	96.482	95.595	97.44	97.551	98.282	98.567
14:52	ZZZZZZ	98.752	98.13	96.463	95.668	97.584	96.622	98.45	98.309
14:56	ZZZZZZ	98.662	98.409	94.979	96.243	96.138	96.024	96.683	97.716
14:59	ZZZZZZ	98.488	97.292	94.635	93.569	96.197	95.004	96.915	98.213
15:02	ZZZZZZ	97.862	98.406	93.04	93.974	96.45	94.053	96.348	96.409
15:06	ZZZZZZ	92.319	93.355	87.873	88.635	92.933	90.17	91.243	94.055
15:09	ZZZZZZ	85.655	90.641	83.605	84.075	90.614	85.681	86.261	90.664
15:13	MA52843-CCVA4	84.7	87.678	82.316	82.093	87.786	84.587	85.154	89.537
15:16	MA52843-CCB4	85.764	87.453	86.486	86.859	90.323	89.638	87.902	91.832
15:19	ZZZZZZ	89.188	92.244	86.963	88.562	91.935	88.96	89.255	93.02
15:23	ZZZZZZ	No results reported for the elements associated with this internal standard.							
15:26	ZZZZZZ	No results reported for the elements associated with this internal standard.							
15:30	ZZZZZZ	93.869	94.921	91.275	90.242	93.245	91.937	92.834	97.498
15:33	ZZZZZZ	95.668	94.89	90.579	91.494	93.591	91.765	93.948	97.083
15:37	ZZZZZZ	96.026	96.513	92.535	92.039	94.712	94.373	95.113	97.477
15:40	ZZZZZZ	101.021	97.989	96.678	96.638	98.727	96.805	99.794	97.995
15:44	ZZZZZZ	101.505	99.811	96.2	96.945	99.238	96.195	100.397	97.378
15:47	MA52843-CCVA5	No results reported for the elements associated with this internal standard.							
15:51	MA52843-CCB5	No results reported for the elements associated with this internal standard.							
15:54	ZZZZZZ	99.133	96.297	96.958	96.439	96.663	97.436	97.753	99.403
15:58	ZZZZZZ	97.54	96.488	95.575	96.427	95.302	96.078	97.413	97.068
16:02	MA52843-CCVA6	96.947	95.346	91.331	92.178	93.768	92.777	94.773	96.234
16:06	MA52843-CCB6	95.83	96.093	95.349	97.052	97.494	96.555	96.911	96.738
16:09	ZZZZZZ	95.34	93.433	93.084	91.031	92.527	94.809	93.785	98.398

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
17:00	ZZZZZZ	91.163	88.726	90.619	92.514	87.553	93.308	91.424	93.77
17:04	ZZZZZZ	96.678	92.781	92.788	95.058	92.402	93.282	96.139	95.436
17:20	ZZZZZZ	94.263	91.059	92.171	93.62	90.633	92.98	94.343	94.424
17:39	ZZZZZZ	94.607	90.819	92.961	94.677	89.839	94.13	95.415	93.805
17:42	MP34519-S1	97.387	91.498	92.786	95.556	91.393	92.692	96.754	93.597
17:47	MP34519-S2	97.064	91.206	92.188	94.658	91.032	93.139	96.408	93.968
17:52	JD49472-3	95.591	91.118	92.285	93.791	91.773	92.655	96.271	92.946
18:04	MP34519-SD1	94.812	90.775	92.901	93.39	89.917	92.594	94.611	92.629
18:08	MA52843-CCVA7	92.614	90.606	86.873	89.233	88.912	87.771	92.236	89.415
18:11	MA52843-CCB7	92.886	90.199	90.198	93.606	91.773	90.319	94.343	91.1
18:14	ZZZZZZ	94.737	91.511	89.983	91.345	91.054	90.414	94.543	93.364
18:18	ZZZZZZ	93.046	89.442	88.988	88.962	89.269	90.917	93.696	91.223
18:21	ZZZZZZ	94.281	90.061	90.241	90.847	90.519	91.127	94.398	91.409
18:25	ZZZZZZ	91.627	88.508	87.539	88.591	87.992	89.112	90.912	89.167
18:29	ZZZZZZ	92.755	89.029	89.689	91.577	89.507	89.468	92.884	90.457
18:33	ZZZZZZ	90.03	87.797	86.099	87.166	87.779	87.787	89.904	88.203
18:37	ZZZZZZ	91.644	88.858	88.758	89.348	88.672	89.786	92.248	89.449
18:40	ZZZZZZ	91.037	87.565	86.656	86.926	88.057	87.201	90.652	88.839
18:44	MA52843-CCVA8	91.224	90.147	84.939	86.874	88.886	85.707	90.405	88.275
18:48	MA52843-CCB8	92.403	90.542	89.887	92.368	91.946	89.364	93.433	89.433
18:51	ZZZZZZ	96.668	92.51	92.85	94.825	92.12	92.981	96.072	93.094
18:55	ZZZZZZ	94.33	89.849	90.054	90.104	89.443	91.5	92.832	91.703
18:59	ZZZZZZ	94.089	90.392	92.254	91.957	90.454	91.563	94.568	91.192
19:02	ZZZZZZ	91.411	89.009	88.161	87.727	89.058	88.504	90.937	89.393
19:06	ZZZZZZ	93.88	89.757	90.562	90.915	89.874	89.81	93.205	89.828
19:10	ZZZZZZ	91.364	89.323	86.28	87.949	88.649	86.908	90.61	88.238
19:13	ZZZZZZ	84.72	81.622	84.64	85.037	83.09	85.478	86.198	87.189
19:17	ZZZZZZ	82.712	84.383	80.241	80.993	83.893	82.129	82.966	85.436
19:20	MA52843-CCVA9	78.336	80.503	77.008	77.912	80.159	79.103	79.304	82.841
19:24	MA52843-CCB9	79.751	80.154	79.564	80.986	82.265	81.149	82.507	84.056
19:28	ZZZZZZ	83.905	81.93	83.13	84.334	83.65	83.71	85.313	87.34
19:31	ZZZZZZ	85.917	84.78	81.199	83.266	84.616	83.488	85.048	85.465
19:35	ZZZZZZ	84.498	81.79	82.889	83.536	83.059	83.927	85.035	86.037

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
19:39	ZZZZZZ	81.167	80.667	80.013	80.839	81.851	81.533	82.221	83.85
19:42	ZZZZZZ	79.974	78.071	79.842	79.982	80.182	80.604	81.455	84.383
19:46	MA52843-CCVA10	77.962	79.269	75.378	76.935	79.173	78.213	79.472	81.774
19:49	MA52843-CCB10	78.794	79.46	79.484	79.902	81.79	81.326	81.294	83.939
19:53	MP34484-S1	81.553	80.73	77.44	79.178	80.402	80.835	82.651	85.166
19:57	MP34484-S2	84.938	82.773	80.415	80.651	82.051	82.514	84.834	87.089
20:00	JD49193-5	85.934	85.038	82.803	83.748	84.237	84.174	86.936	89.301
20:04	MP34484-SD1	88.966	85.169	85.797	86.713	87.045	86.857	90.182	89.128
20:08	MP34484-PS1	86.943	85.526	81.243	82.486	84.088	84.273	86.479	87.334
20:11	JD49400-1	83.644	82.978	82.997	81.533	83.391	85.894	86.202	89.466
20:15	ZZZZZZ	0.234 !	0.248 !	0.014 !	0.014 !	0.014 !	0.051 !	0.051 !	0.014 !
20:19	MA52843-CCVA11	88.109	86.666	83.481	85.155	85.323	85.348	88.337	88.947
20:22	MA52843-CCB11	86.898	86.999	85.811	87.946	88.04	86.957	88.988	88.233
20:26	ZZZZZZ	88.22	85.415	85.806	84.036	84.01	86.967	87.737	90.317
20:29	ZZZZZZ	89.223	87.293	84.47	84.938	86.27	85.174	88.626	88.569
20:33	ZZZZZZ	89.776	87.935	85.966	86.312	86.445	86.638	89.403	89.511
20:36	ZZZZZZ	91.314	88.415	86.087	86.378	87.246	87.172	90.578	90.247
20:40	MP34484-S1	92.408	89.256	88.274	89.335	88.754	88.743	93.209	88.555
20:43	MP34484-S2	93.619	89.443	88.096	90.23	89.593	88.5	94.032	89.599
20:46	JD49193-5	94.162	89.389	89.238	90.014	90.21	89.452	94.126	90.883
20:50	MP34484-SD1	94.847	89.724	90.387	92.467	90.094	91.034	93.91	90.151
20:53	ZZZZZZ	0.244 !	0.247 !	0.023 !	0.017 !	0.016 !	0.055 !	0.046 !	0.031 !
20:57	MA52843-CCVA12	90.588	87.636	85.415	86.579	86.288	86.824	88.922	89.125
21:00	MA52843-CCB12	90.551	88.111	88.221	90.094	89.914	88.855	91.937	89.094
21:03	MP34509-MB1	91.764	88.649	89.19	91.47	89.863	89.349	92.227	89.545
21:07	MP34509-B1	No results reported for the elements associated with this internal standard.							
21:10	MP34509-S1	83.805	82.024	78.077	77.696	78.389	82.092	82.64	85.601
21:14	MP34509-S2	83.088	82.988	76.156	76.467	79.24	79.884	82.729	84.603
21:17	JD49494-1	85.087	84.217	78.102	79.843	80.658	83.179	85.151	86.423
21:20	ZZZZZZ	82.838	84.172	76.59	78.428	80.468	80.31	82.7	84.41
21:23	ZZZZZZ	No results reported for the elements associated with this internal standard.							
21:27	ZZZZZZ	87.137	85.331	87.71	88.897	87.675	88.198	88.305	89.373
21:30	MA52843-CCVA13	87.85	86.756	85.396	84.186	85.938	86.666	87.827	89.253

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
21:34	MA52843-CCB13	85.842	84.746	84.621	87.029	87.28	86.793	87.679	86.683
21:37	ZZZZZZ	90.49	88.445	88.099	90.034	88.711	90.41	92.097	90.164
21:40	ZZZZZZ	86.13	86.206	80.167	80.414	82.029	82.603	85.046	86.993
21:44	ZZZZZZ	87.273	85.586	82.622	82.93	82.919	87.356	86.927	88.798
21:47	ZZZZZZ	86.115	85.401	80.271	81.66	82.412	84.554	85.243	86.268
21:50	ZZZZZZ	87.95	88.092	79.887	80.839	82.651	85.89	87.053	88.596
21:53	ZZZZZZ	85.228	85.067	79.849	80.22	81.687	84.714	84.931	88.653
21:57	ZZZZZZ	85.245	84.535	80.127	80.652	81.409	83.883	84.373	88.178
22:00	MP34509-B1	88.189	88.554	85.163	85.847	88.489	86.382	89.004	89.434
22:03	ZZZZZZ	0.265 !	0.268 !	0.017 !	0.019 !	0.013 !	0.043 !	0.048 !	0.023 !
22:07	MA52843-CCVA14	86.898	87.829	85.709	85.603	86.441	86.774	86.64	90.052
22:10	MA52843-CCB14	85.97	85.249	85.379	86.609	87.927	86.863	87.071	88.236
22:14	ZZZZZZ	0.253 !	0.225 !	0.02 !	0.012 !	0.017 !	0.04 !	0.042 !	0.022 !
22:17	ZZZZZZ	90.99	89.091	89.685	92.211	90.981	92.081	91.69	92.141
22:21	ZZZZZZ	91.088	89.656	89.504	89.645	89.352	91.576	91.725	92.442
22:24	MP34508-MB1	85.187	86.396	85.631	87.684	88.137	86.886	87.025	89.501
22:28	ZZZZZZ	81.818	84.521	83.817	83.74	84.815	85.403	81.471	89.1
22:32	MP34508-B1	83.252	85.668	84.19	82.705	85.71	86.109	83.335	90.228
22:35	MP34508-S1	79.346	82.046	78.437	75.198	79.129	82.36	78.524	87.804
22:39	MP34508-S2	79.447	81.354	77.527	75.875	78.449	81.109	78.708	86.694
22:43	MA52843-CCVA15	86.713	86.841	82.946	84.614	86.613	84.962	86.625	88.877
22:46	MA52843-CCB15	85.602	86.577	85.549	87.652	88.295	86.93	87.831	88.229
22:50	JD49555-1	78.54	79.1	80.891	76.178	77.181	84.382	78.004	88.286
22:54	MP34508-SD1	85.017	86.017	84.774	84.49	86.33	88.647	85.923	90.4
22:57	ZZZZZZ	78.807	81.652	75.599	75.243	77.782	80.946	77.461	85.312
23:01	ZZZZZZ	79.415	82.737	80.249	76.92	79.732	83.703	78.313	88.11
23:05	ZZZZZZ	77.709	81.007	78.657	77.023	78.595	83.012	77.116	87.177
23:08	ZZZZZZ	77.676	81.012	76.437	73.555	76.318	80.927	75.942	85.826
23:12	ZZZZZZ	77.21	79.474	74.169	73.228	75.5	79.067	74.704	85.175
23:16	ZZZZZZ	77.867	81.849	74.132	73.442	75.92	78.215	75.094	84.673
23:19	ZZZZZZ	79.45	82.345	77.716	75.88	79.018	82.378	77.432	86.297
23:23	MA52843-CCVA16	85.495	87.635	83.796	83.997	86.793	85.717	85.351	89.935
23:26	MA52843-CCB16	83.929	85.649	85.041	86.89	88.206	86.556	86.389	88.178

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
23:30	ZZZZZZ	77.942	80.453	78.513	75.834	77.659	82.591	76.807	86.921
23:33	ZZZZZZ	76.612	79.54	74.064	73.651	76.704	78.806	74.705	83.758
23:37	ZZZZZZ	78.971	82.446	79.683	77.78	80.558	83.832	78.738	87.992
23:41	ZZZZZZ	76.575	81.081	79.141	75.555	78.095	84.237	75.646	88.792
23:44	ZZZZZZ	77.729	82.102	77.46	75.829	78.712	82.315	77.009	87.448
23:48	ZZZZZZ	78.095	82.12	75.464	72.954	76.473	80.225	75.204	86.292
23:51	ZZZZZZ	81.245	84.119	80.632	79.055	81.194	84.631	79.311	88.94
23:54	ZZZZZZ	80.709	84.478	77.392	76.33	79.328	82.215	77.912	88.539
23:58	ZZZZZZ	0.21 !	0.283 !	0.015 !	0.01 !	0.01 !	0.045 !	0.038 !	0.011 !
00:02	ZZZZZZ	0.238 !	0.224 !	0.007 !	0.006 !	0.008 !	0.03 !	0.028 !	0.003 !
00:16	MA52843-CCVA17	88.557	90.444	88.404	87.925	89.219	90.635	87.781	94.662
00:20	MA52843-CCB17	87.754	88.642	90.408	90.159	90.616	91.937	89.135	94.129
00:23	ZZZZZZ	87.741	87.979	89.154	87.925	88.343	91.877	88.328	94.225
00:27	ZZZZZZ	87.222	87.225	87.032	87.267	87.414	90.197	87.793	92.141
00:30	ZZZZZZ	0.23 !	0.218 !	0.015 !	0.015 !	0.015 !	0.04 !	0.034 !	0.027 !
00:34	ZZZZZZ	86.222	86.327	86.63	85.899	86.303	90.295	85.993	91.711
00:37	ZZZZZZ	87.374	87.531	87.603	87.409	87.802	90.763	88.443	92.621
00:41	MA52843-CCVA18	86.869	88.292	84.952	84.68	87.163	86.531	86.612	90.814
00:44	MA52843-CCB18	86.383	86.695	88.422	88.003	89.168	90.712	87.809	90.651
00:48	ZZZZZZ	88.744	89.318	88.583	88.444	88.745	91.28	89.521	93.56
00:51	ZZZZZZ	86.367	87.639	87.045	87.263	88.25	89.881	87.647	92.039
00:55	ZZZZZZ	89.563	89.511	89.908	89.073	89.587	93.281	89.846	93.303
00:58	ZZZZZZ	88.058	87.591	89.519	87.542	88.362	92.243	89.218	93.13
01:02	ZZZZZZ	86.188	86.418	87.069	86.71	86.37	88.968	86.879	91.212
01:05	ZZZZZZ	86.756	87.128	88.194	88.197	88.074	90.491	88.596	92.329
01:09	MA52843-CCVA19	86.148	87.741	83.783	84.423	87.125	85.958	86.162	89.919
01:12	MA52843-CCB19	85.509	87.936	87.76	87.485	89.671	89.304	87.069	91.36
01:16	MP34510-MB1	86.473	86.383	88.352	87.815	88.972	90.201	87.94	91.949
01:19	MP34510-B1	81.544	82.024	85.158	81.434	84.769	87.11	83.322	90.719
01:22	MP34510-S1	76.806	78.304	75.51	73.903	78.095	80.871	78.084	85.084
01:26	MP34510-S2	76.009	79.045	75.201	74.026	77.714	80.114	77.907	85.92
01:29	JD49497-1	77.2	77.969	77.728	75.952	78.822	82.027	79.606	86.871
01:33	ZZZZZZ	76.747	78.389	77.221	75.804	78.815	82.268	79.038	86.676

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
01:37	ZZZZZZ	75.824	77.905	78.051	76.237	78.021	83.114	78.541	87.578
01:40	ZZZZZZ	74.951	78.601	77.576	74.536	78.625	81.722	77.655	87.176
01:44	ZZZZZZ	76.299	79.277	79.081	77.277	78.905	84.223	79.717	88.365
01:47	MA52843-CCVA20	76.206	78.245	78.155	76.815	79.601	81.445	78.26	87.339
01:51	MA52843-CCB20	75.157	77.446	79.532	79.363	81.292	82.386	79.101	86.524
01:54	ZZZZZZ	73.317	75.118	76.008	73.957	76.473	81.086	75.796	86.953
01:58	ZZZZZZ	72.608	76.575	74.268	73.274	76.783	79.469	76.013	85.042
02:02	ZZZZZZ	75.808	80.302	76.927	76.392	79.464	82.314	79.341	86.719
02:05	ZZZZZZ	74.371	77.461	75.265	73.92	76.679	80.44	76.166	86.48
02:09	ZZZZZZ	78.025	79.858	79.332	77.561	79.734	84.484	80.736	89.918
02:12	MA52843-CCVA21	77.353	79.823	80.111	76.527	81.052	83.251	78.834	88.695
02:16	MA52843-CCB21	76.216	79.486	81.474	79.961	82.27	84.022	79.87	87.284
02:20	MP34511-MB1	77.924	79.94	83.591	82.185	82.766	85.316	81.239	88.888
02:24	MP34511-B1	78.572	80.745	81.671	79.532	82.161	84.727	80.941	88.888
02:27	MP34511-S1	75.527	79.128	75.228	74.103	78.187	80.148	77.668	85.424
02:31	MP34511-S2	75.034	77.136	75.331	72.922	76.533	79.57	77.143	86.053
02:34	JD49502-2	74.718	77.877	76.075	75.347	78.391	80.739	78.65	86.024
02:37	ZZZZZZ	75.117	77.986	72.911	74.035	76.016	77.619	76.225	84.039
02:40	ZZZZZZ	76.968	79.346	77.177	76.542	78.89	82.253	79.767	87.625
02:44	ZZZZZZ	74.751	77.856	76.727	74.344	77.218	81.657	77.097	86.443
02:47	MA52843-CCVA22	73.184	77.235	75.937	75.379	78.749	80.081	76.221	85.736
02:50	MA52843-CCB22	72.874	76.648	77.892	76.792	80.171	81.659	77.15	85.867
02:54	ZZZZZZ	74.805	78.282	75.371	74.622	78.096	80.383	77.79	86.785
02:57	ZZZZZZ	75.044	76.551	75.635	74.086	76.307	81.65	77.274	86.284
03:00	ZZZZZZ	70.441	74.201	71.781	69.378	72.78	77.84	73.621	84.063
03:04	MP34511-S1	74.635	77.254	76.242	74.333	78.26	82.169	78.522	86.674
03:07	MP34511-S2	74.943	76.607	77.094	75.645	77.948	81.123	77.541	87.475
03:10	MA52843-CCVA23	73.603	76.328	75.29	73.814	78.115	79.114	76.147	85.216
03:14	MA52843-CCB23	72.632	76.515	77.629	76.405	79.757	80.714	77.2	84.935
03:17	ZZZZZZ	0.214 !	0.171 !	0.017 !	0.014 !	0.014 !	0.029 !	0.026 !	0.022 !
03:21	ZZZZZZ	0.222 !	0.212 !	0.016 !	0.016 !	0.019 !	0.032 !	0.029 !	0.015 !
03:24	JD49497-1	75.899	76.993	81.268	78.836	78.216	85.959	78.938	88.573
03:29	ZZZZZZ	76.466	76.292	80.45	78.215	78.759	84.305	79.305	88.244

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
03:32	ZZZZZZ	77.595	78.147	80.493	78.737	79.926	83.926	80.737	89.108
03:36	ZZZZZZ	75.206	77.183	79.729	76.94	78.294	82.673	78.991	87.239
03:40	MA52843-CCVA24	73.862	76.208	76.71	74.648	78.243	80.255	76.074	86.792
03:43	MA52843-CCB24	73.118	75.28	78.608	77.539	78.982	81.167	76.946	85.547
03:47	MP34528-MB1	73.606	75.41	77.586	78.098	79.623	80.489	76.784	85.04
03:50	MP34528-B1	74.629	77.074	78.78	76.408	79.224	81.068	78.191	87.156
03:54	MP34528-S1	73.243	75.811	72.646	70.181	74.77	77.81	74.145	85.231
03:58	MP34528-S2	73.599	76.044	71.82	70.931	75.036	76.469	75.026	84.521
04:01	JD49644-1	74.066	76.21	75.11	73.44	75.934	79.909	76.866	86.36
04:05	ZZZZZZ	70.621	72.162	69.924	68.759	70.595	76.463	72.899	84.196
04:08	ZZZZZZ	69.73	72.392	70.683	68.192	69.811	77.294	71.823	84.656
04:12	ZZZZZZ	70.054	72.106	69.403	68.497	70.288	76.174	72.678	84.282
04:15	MA52843-CCVA25	73.276	76.137	77.1	75.019	78.332	80.577	76.835	86.928
04:19	MA52843-CCB25	73.892	76.464	79.736	79.659	81.12	83.316	78.618	88.383
04:23	ZZZZZZ	69.115	71.767	70.128	68.997	69.991	77	72.38	85.265
04:26	ZZZZZZ	70.282	73.058	69.406	68.591	70.996	76.327	72.877	84.685
04:29	ZZZZZZ	71.813	74.303	74.265	72.335	73.813	81.171	75.17	87.568
04:33	ZZZZZZ	73.846	76.882	77.09	75.29	76.866	82.772	76.916	89.452
04:36	ZZZZZZ	75.427	77.148	77.362	74.754	76.729	83.511	78.072	90.078
04:40	MA52843-CCVA26	77.238	79.497	80.364	78.463	81.229	84.648	80.088	90.917
04:43	MA52843-CCB26	76.969	80.585	83.227	81.792	84.259	86.478	81.442	90.739
04:46	ZZZZZZ	78.721	80.864	84.878	83.564	85.108	88.699	82.968	92.466
04:50	ZZZZZZ	80.087	81.989	86.995	85.143	86.08	88.826	83.598	93.504
04:53	ZZZZZZ	79.421	81.658	87.992	84.883	85.346	90.146	83.601	94.178

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#9	Germanium (74-2)	60-125 %	60-125 %
Istd#10	Germanium (74-3)	60-125 %	60-125 %
Istd#11	Rhodium (103-1)	60-125 %	60-125 %
Istd#12	Rhodium (103-2)	60-125 %	60-125 %
Istd#13	Rhodium (103-3)	60-125 %	60-125 %
Istd#14	Indium (115-1)	60-125 %	60-125 %
Istd#15	Indium (115-2)	60-125 %	60-125 %
Istd#16	Terbium (159-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
11:54	MA52843-STD1	100	100	100	100	100	100
11:57	MA52843-STD2	100	100	100	100	100	100
12:00	MA52843-STD3	100	100	100	100	100	100
12:04	MA52843-STD4	99.226	99.34	99.916	98.229	100.056	98.135
12:08	MA52843-STD5	99.573	100.342	99.109	99.542	100.258	100.595
12:11	MA52843-STD6	99.755	98.822	99.321	99.505	100.151	99.522
12:15	MA52843-STD7	99.096	100.503	99.138	99.714	99.954	101.552
12:18	MA52843-STD8	98.829	98.997	98.349	98.071	99.33	100.378
12:22	MA52843-STD9	101.009	100.908	98.243	99.853	99.879	100.775
12:25	MA52843-STD10	101.201	101.295	99.443	100.83	99.781	101.663
12:29	MA52843-STD11	100.202	100.098	99.502	100.468	98.219	98.401
12:33	MA52843-STD12	99.333	99.742	97.734	99.877	94.802	95.66
12:44	MA52843-STD13	100	100	100	100	100	100
12:47	MA52843-STD14	100	100	100	100	100	100
12:50	MA52843-ICVA1	99.052	98.072	100.652	98.901	97.797	97.783
12:54	MA52843-ICV1	99.815	99.788	100.344	98.817	99.488	99.987
13:11	MA52843-ICB1	100.726	99.449	99.907	100.85	98.126	101.555
13:15	MA52843-CCVA1	99.505	99.093	98.023	98.651	95.894	97.664
13:18	MA52843-CCB1	100.229	99.204	98.148	99.698	97.208	99.268
13:22	ZZZZZZ	98.62	98.873	98.858	99.359	97.97	99.269
13:25	MA52843-CRI1	99.676	100.04	100.386	100.182	98.422	100.445
13:28	MA52843-ICSA1	91.409	89.788	94.483	91.43	85.064	82.329
13:32	MA52843-ICSAB1	89.7	89.347	91.91	90.366	82.236	81.572
13:38	ZZZZZZ	93.531	94.527	93.273	93.65	92.86	94.48
13:44	MP34484-MB1	95.416	95.501	95.336	95.368	96.58	98.134
13:48	ZZZZZZ	97.235	97.952	96.624	96.635	95.557	96.458
13:51	ZZZZZZ	94.921	97.672	96.129	94.813	90.689	91.25
13:54	MA52843-CCVA2	95.603	96.401	95.883	96.107	93.04	94.506
13:58	MA52843-CCB2	94.9	95.773	95.074	95.785	94.922	96.566
14:04	MP34484-B1	94.485	95.603	97.421	95.099	94.333	94.629
14:07	MP34519-MB1	93.388	95.114	95.661	93.872	95.609	96.492
14:11	MP34519-B1	94.44	94.914	95.565	94.461	93.171	95.174
14:14	MP34519-S1	98.953	98.675	99.557	98.671	93.866	95.591

INTERNAL STANDARD SUMMARY

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Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
14:19	MP34519-S2	99.462	99.225	100.02	99.202	94.907	95.294
14:22	JD49472-3	99.327	99.078	99.136	99.019	95.99	96.343
14:25	MP34519-SD1	101.083	101.352	100.669	101.5	98.938	102.103
14:29	MP34519-PS1	98.994	99.661	99.745	97.878	95.104	94.449
14:32	ZZZZZZ	99.491	98.848	98.852	99.801	97.689	100.253
14:35	MA52843-CCVA3	98.744	98.208	99.354	97.882	95.885	96.702
14:39	MA52843-CCB3	99.424	99.362	99.004	99.423	96.399	99.82
14:42	ZZZZZZ	98.833	99.367	101.074	99.665	96.43	96.616
14:45	ZZZZZZ	99.945	98.956	101.142	99.415	96.841	96.798
14:49	ZZZZZZ	98.208	98.981	99.091	98.137	95.823	96.851
14:52	ZZZZZZ	99.054	99.215	99.486	98.43	97	97.901
14:56	ZZZZZZ	97.771	98.156	98.034	98.363	94.834	95.738
14:59	ZZZZZZ	98.076	97.246	98.491	98.029	95.123	96.069
15:02	ZZZZZZ	97.378	97.811	97.161	96.847	94.478	95.786
15:06	ZZZZZZ	94.172	96.666	94.633	93.342	91.482	92.082
15:09	ZZZZZZ	90.325	93.919	91.671	90.232	89.559	90.323
15:13	MA52843-CCVA4	89.973	92.716	90.989	89.055	88.232	89.599
15:16	MA52843-CCB4	90.754	93.081	91.92	91.297	91.794	92.653
15:19	ZZZZZZ	93.709	95.365	93.866	93.729	92.371	93.007
15:23	ZZZZZZ	No results reported for the elements associated with this internal standard.					
15:26	ZZZZZZ	No results reported for the elements associated with this internal standard.					
15:30	ZZZZZZ	96.203	97.061	98.498	96.486	93.83	93.009
15:33	ZZZZZZ	95.982	97.166	97.276	96.614	92.774	93.288
15:37	ZZZZZZ	97.765	98.07	98.578	97.542	93.724	94.803
15:40	ZZZZZZ	99.169	99.498	99.504	99.299	98.627	99.568
15:44	ZZZZZZ	99.715	99.463	99.43	99.351	97.963	99.744
15:47	MA52843-CCVA5	No results reported for the elements associated with this internal standard.					
15:51	MA52843-CCB5	No results reported for the elements associated with this internal standard.					
15:54	ZZZZZZ	99.374	98.291	100.144	99.442	98.293	98.921
15:58	ZZZZZZ	99.392	96.145	98.001	98.31	97.483	100.126
16:02	MA52843-CCVA6	96.767	96.39	96.493	97.424	92.135	94.417
16:06	MA52843-CCB6	98.052	97.536	96.601	97.157	94.605	97.509
16:09	ZZZZZZ	96.481	95.867	98.8	96.986	94.359	95.054

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
17:00	ZZZZZZ	97.634	94.592	94.749	97.521	94.803	98.449
17:04	ZZZZZZ	98.802	96.674	96.643	100.33	95.55	99.305
17:20	ZZZZZZ	97.798	94.796	95.479	96.908	94.073	97.263
17:39	ZZZZZZ	98.974	94.772	94.2	97.237	94.079	98.92
17:42	MP34519-S1	97.968	94.216	94.553	97.761	92.96	97.792
17:47	MP34519-S2	96.717	94.511	94.713	96.829	93.254	96.536
17:52	JD49472-3	97.19	94.013	94.175	96.647	92.711	96.831
18:04	MP34519-SD1	96.24	94.383	94.504	96.224	91.793	95.979
18:08	MA52843-CCVA7	94.658	92.368	91.07	93.867	86.158	91.348
18:11	MA52843-CCB7	94.443	94.17	91.356	93.292	88.39	92.891
18:14	ZZZZZZ	94.85	93.307	94.157	95.288	91.796	94.408
18:18	ZZZZZZ	92.797	92.252	92.638	93.15	89.843	92.691
18:21	ZZZZZZ	93.894	92.249	91.642	94.077	90.805	95.121
18:25	ZZZZZZ	90.822	90.482	91.136	90.869	88.147	90.372
18:29	ZZZZZZ	92.888	90.873	90.839	92.33	89.359	93.198
18:33	ZZZZZZ	89.955	90.824	89.897	90.798	86.97	90.625
18:37	ZZZZZZ	92.325	91.284	90.386	92.551	89.204	93.151
18:40	ZZZZZZ	92.217	90.589	89.821	91.715	87.319	89.811
18:44	MA52843-CCVA8	91.554	92.337	88.704	91.872	85.946	89.396
18:48	MA52843-CCB8	92.359	92.818	90.614	92.787	87.718	92.234
18:51	ZZZZZZ	96.103	94.22	94.055	95.45	92.407	95.561
18:55	ZZZZZZ	93.481	91.608	92.695	92.306	89.907	91.96
18:59	ZZZZZZ	93.329	92.128	93.245	93.989	90.988	93.409
19:02	ZZZZZZ	91.852	92.265	89.31	91.84	86.667	91.133
19:06	ZZZZZZ	93.025	91.326	90.528	93.667	89.936	93.58
19:10	ZZZZZZ	91.732	91.252	88.649	91.675	86.733	90.139
19:13	ZZZZZZ	88.064	87.338	87.013	88.628	87.482	89.893
19:17	ZZZZZZ	85.902	87.997	85.932	86.483	84.489	87.239
19:20	MA52843-CCVA9	84.139	86.534	84.102	83.582	81.982	83.455
19:24	MA52843-CCB9	85.542	87.466	85.368	85.489	83.764	86.849
19:28	ZZZZZZ	88.736	89.256	87.409	89.188	88.47	90.93
19:31	ZZZZZZ	88.1	89.032	86.59	88.663	85.399	88.238
19:35	ZZZZZZ	87.741	87.434	86.69	88.247	87.314	89.675

INTERNAL STANDARD SUMMARY

Login Number: JD49400
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Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
19:39	ZZZZZZ	85.95	87.753	84.825	86.062	85.135	88.459
19:42	ZZZZZZ	84.483	85.854	85.479	85.525	85.521	88.803
19:46	MA52843-CCVA10	83.487	86.266	83.02	83.608	81.272	84.18
19:49	MA52843-CCB10	84.927	86.94	85.107	85.568	84.439	86.024
19:53	MP34484-S1	87.121	89.833	86.169	87.757	84.757	86.345
19:57	MP34484-S2	88.712	89.405	88.559	88.736	86.179	88.122
20:00	JD49193-5	89.982	90.974	89.131	90.353	86.639	88.835
20:04	MP34484-SD1	90.967	91.312	90.395	91.532	89.932	92.445
20:08	MP34484-PS1	90.042	91.364	89.032	90.87	86.881	87.696
20:11	JD49400-1	88.852	89.408	90.392	89.465	89.245	89.622
20:15	ZZZZZZ	0.017 !	0.014 !	0.016 !	0.014 !	0.104 !	0.095 !
20:19	MA52843-CCVA11	90.854	91.159	89.979	91.435	86.659	89.687
20:22	MA52843-CCB11	90.39	92.323	88.637	91.368	86.968	90.715
20:26	ZZZZZZ	89.686	89.221	91.453	90.562	87.267	88.275
20:29	ZZZZZZ	90.323	90.803	89.545	91.274	86.313	88.703
20:33	ZZZZZZ	91.304	90.682	90.588	91.8	86.35	88.645
20:36	ZZZZZZ	90.914	91.045	90.968	91.501	86.561	88.8
20:40	MP34484-S1	92.008	91.299	89.7	92.251	89.314	93.684
20:43	MP34484-S2	93.158	91.975	90.872	93.437	89.454	93.075
20:46	JD49193-5	93.581	92.427	91.083	93.444	91.004	95.211
20:50	MP34484-SD1	93.426	93.126	91.307	93.967	90.317	93.929
20:53	ZZZZZZ	0.028 !	0.022 !	0.031 !	0.026 !	0.179 !	0.143 !
20:57	MA52843-CCVA12	91.112	90.574	89.578	92.005	86.55	89.5
21:00	MA52843-CCB12	92.184	92.4	89.941	92.771	87.668	92.069
21:03	MP34509-MB1	92.815	92.458	90.255	92.601	89.052	93.887
21:07	MP34509-B1	No results reported for the elements associated with this internal standard.					
21:10	MP34509-S1	87.546	87.201	87.423	87.236	82.412	85.141
21:14	MP34509-S2	86.7	88.012	85.509	86.91	81.294	83.515
21:17	JD49494-1	87.936	87.992	87.711	88.361	82.882	86.192
21:20	ZZZZZZ	87.358	89.437	86.463	88.047	80.392	84.736
21:23	ZZZZZZ	No results reported for the elements associated with this internal standard.					
21:27	ZZZZZZ	91.649	92.253	89.442	91.844	88.846	93.062
21:30	MA52843-CCVA13	90.472	90.666	90.07	90.764	87.814	89.92

INTERNAL STANDARD SUMMARY

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File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
21:34	MA52843-CCB13	89.976	91.562	88.094	90.187	86.146	91.091
21:37	ZZZZZZ	93.048	92.822	90.816	92.95	89.863	93.981
21:40	ZZZZZZ	89.626	91.564	87.674	89.821	82.592	86.581
21:44	ZZZZZZ	90.599	90.555	89.851	90.855	87.046	89.589
21:47	ZZZZZZ	89.569	90.31	88.225	90.435	84.93	88.925
21:50	ZZZZZZ	90.683	91.594	90.257	91.427	84.345	86.569
21:53	ZZZZZZ	89.101	90.688	89.192	89.751	85.062	87.085
21:57	ZZZZZZ	89.017	90.756	88.883	89.984	84.443	86.678
22:00	MP34509-B1	91.609	92.033	90.353	91.081	88.688	90.557
22:03	ZZZZZZ	0.025 !	0.018 !	0.02 !	0.024 !	0.132 !	0.128 !
22:07	MA52843-CCVA14	90.92	92.302	91.242	91.468	87.99	90.535
22:10	MA52843-CCB14	90.538	91.618	89.417	90.503	88.076	91.916
22:14	ZZZZZZ	0.02 !	0.02 !	0.022 !	0.017 !	0.227 !	0.177 !
22:17	ZZZZZZ	93.42	94.926	92.826	93.919	92.31	94.194
22:21	ZZZZZZ	93.746	94.362	93.598	93.105	93.679	95.108
22:24	MP34508-MB1	90.902	92.073	89.5	90.991	89.976	92.859
22:28	ZZZZZZ	87.643	90.921	89.101	87.852	90.293	89.744
22:32	MP34508-B1	89.013	90.96	91.335	89.282	88.009	87.836
22:35	MP34508-S1	84.31	87.861	88.694	85.181	83.835	82.246
22:39	MP34508-S2	84.321	87.794	87.611	84.688	82.903	83.596
22:43	MA52843-CCVA15	90.535	91.641	89.624	90.837	87.472	89.492
22:46	MA52843-CCB15	90.323	92.38	88.995	90.573	87.531	91.837
22:50	JD49555-1	84.391	86.073	90.532	84.017	87.279	83.514
22:54	MP34508-SD1	89.927	92.367	90.936	90.507	91.642	91.961
22:57	ZZZZZZ	83.608	87.425	86.845	84.922	81.861	81.888
23:01	ZZZZZZ	85.594	88.724	88.895	84.878	86.486	84.232
23:05	ZZZZZZ	84.242	88.532	88.69	85.028	84.923	84.363
23:08	ZZZZZZ	83.719	86.81	87.656	83.908	83.112	81.734
23:12	ZZZZZZ	83.322	87.369	86.639	84.35	80.024	79.899
23:16	ZZZZZZ	83.633	87.791	85.83	83.717	80.334	79.506
23:19	ZZZZZZ	84.523	88.956	87.642	84.439	83.868	82.272
23:23	MA52843-CCVA16	89.901	92.634	90.98	89.586	88.719	89.396
23:26	MA52843-CCB16	90.425	91.893	89.707	90.226	88.085	91.616

INTERNAL STANDARD SUMMARY

Login Number: JD49400
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Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
23:30	ZZZZZZ	84.031	87.257	88.039	84.233	84.605	83.292
23:33	ZZZZZZ	83.139	87.244	85.269	83.99	80.47	80.647
23:37	ZZZZZZ	85.466	90.51	89.565	86.452	86.306	85.938
23:41	ZZZZZZ	83.988	88.388	89.808	85.068	86.422	83.855
23:44	ZZZZZZ	84.725	89.473	89.201	85.788	84.367	82.087
23:48	ZZZZZZ	84.105	88.097	87.429	85.562	81.159	80.671
23:51	ZZZZZZ	87.13	90.749	90.961	87.736	87.064	85.069
23:54	ZZZZZZ	85.605	90.27	90.11	87.984	82.577	81.838
23:58	ZZZZZZ	0.008 !	0.006 !	0.014 !	0.007 !	0.038 !	0.029 !
00:02	ZZZZZZ	0.003 !	0.004 !	0.005 !	0.003 !	0.022 !	0.021 !
00:16	MA52843-CCVA17	94.235	96.842	95.476	95.483	92.534	94.323
00:20	MA52843-CCB17	93.94	94.789	95.31	93.556	93.393	94.401
00:23	ZZZZZZ	92.239	94.526	94.762	92.491	94.51	95.537
00:27	ZZZZZZ	91.559	92.386	93.783	91.529	93.751	94.163
00:30	ZZZZZZ	0.022 !	0.017 !	0.029 !	0.022 !	0.076 !	0.066 !
00:34	ZZZZZZ	90.496	92.472	93.08	90.683	92.905	92.282
00:37	ZZZZZZ	92.525	93.305	93.494	92.262	94.42	94.761
00:41	MA52843-CCVA18	90.04	93.124	91.841	91.154	90.497	90.398
00:44	MA52843-CCB18	90.992	92.603	92.842	91.171	92.153	92.753
00:48	ZZZZZZ	93.413	94.309	94.12	92.731	94.547	95.794
00:51	ZZZZZZ	92.237	93.733	92.961	92.425	93.176	94.69
00:55	ZZZZZZ	93.537	95.504	93.923	93.635	96.255	96.716
00:58	ZZZZZZ	92.315	94.775	94.068	93.233	95.231	94.983
01:02	ZZZZZZ	90.66	91.834	92.383	91.212	92.362	93.967
01:05	ZZZZZZ	92.299	93.202	93.352	92.674	93.753	95.385
01:09	MA52843-CCVA19	90.577	93.062	90.392	91.673	88.703	90.439
01:12	MA52843-CCB19	90.534	94.458	91.717	91.397	91.536	91.411
01:16	MP34510-MB1	92.111	94.693	92.869	92.911	92.279	94.886
01:19	MP34510-B1	88.365	90.086	92.204	88.217	90.516	89.196
01:22	MP34510-S1	84.181	87.383	86.686	85.443	84.615	83.789
01:26	MP34510-S2	84.475	87.236	87.235	85.036	84.389	84.177
01:29	JD49497-1	84.947	88.747	88.947	86.653	85.94	85.605
01:33	ZZZZZZ	85.036	89.235	87.407	85.668	85.525	84.998

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
01:37	ZZZZZZ	84.873	88.381	89.529	86.171	87.333	85.886
01:40	ZZZZZZ	84.525	88.135	87.592	86.059	86.984	85.364
01:44	ZZZZZZ	85.525	90.095	89.67	86.958	88.101	87.485
01:47	MA52843-CCVA20	85.219	87.517	88.04	84.915	87.451	86.117
01:51	MA52843-CCB20	84.854	88.265	87.391	85.38	87.173	88.133
01:54	ZZZZZZ	84.156	86.07	88.156	85.451	86.511	85.509
01:58	ZZZZZZ	82.663	87.726	86.241	83.494	85.343	84.823
02:02	ZZZZZZ	85.86	89.933	88.48	86.813	86.19	85.52
02:05	ZZZZZZ	83.936	87.933	87.075	85.881	84.58	83.953
02:09	ZZZZZZ	87.898	89.462	91.083	88.13	88.319	87.968
02:12	MA52843-CCVA21	85.594	89.157	90.422	86.092	89.344	86.329
02:16	MA52843-CCB21	86.157	89.577	88.414	86.087	89.052	89.076
02:20	MP34511-MB1	87.65	90.412	90.199	88.443	91.96	92.273
02:24	MP34511-B1	87.496	89.134	90.495	87.937	89.886	88.839
02:27	MP34511-S1	84.223	88.29	87.673	84.635	84.085	83.675
02:31	MP34511-S2	83.38	86.544	87.709	83.446	85.436	84.043
02:34	JD49502-2	85.527	88.948	87.471	85.71	85.649	86.902
02:37	ZZZZZZ	84.601	89.039	85.097	85.588	80.952	82.756
02:40	ZZZZZZ	86.515	88.868	89.23	87.138	85.678	86.536
02:44	ZZZZZZ	84.111	87.469	87.831	84.563	85.062	85.528
02:47	MA52843-CCVA22	83.843	88.096	87.425	84.743	86.512	85.762
02:50	MA52843-CCB22	83.691	86.951	86.241	84.541	87.531	87.851
02:54	ZZZZZZ	85.071	88.334	86.932	86	85.487	85.355
02:57	ZZZZZZ	84.553	88.265	88.629	85.225	84.956	86.329
03:00	ZZZZZZ	82.364	84.973	85.64	83.259	82.148	81.899
03:04	MP34511-S1	84.898	87.092	88.454	85.986	87.39	87.003
03:07	MP34511-S2	84.955	87.403	88.352	85.22	87.395	86.701
03:10	MA52843-CCVA23	82.289	86.987	85.886	84.207	85.944	85.042
03:14	MA52843-CCB23	84.154	87.493	86.692	85.152	86.757	87.707
03:17	ZZZZZZ	0.017 !	0.018 !	0.019 !	0.019 !	0.243 !	0.189 !
03:21	ZZZZZZ	0.018 !	0.02 !	0.015 !	0.017 !	0.136 !	0.129 !
03:24	JD49497-1	87.106	88.573	90.561	87.931	90.491	90.387
03:29	ZZZZZZ	86.497	88.779	89.706	87.139	90.508	89.923

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52843
Parameters: Al,Ba,Ca,Cu,Fe,Pb,Mn,Ag,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
03:32	ZZZZZZ	87.532	89.076	89.667	88.085	92.553	93.218
03:36	ZZZZZZ	86.373	88.889	88.692	86.751	89.779	89.296
03:40	MA52843-CCVA24	84.318	87.335	87.164	84.604	87.046	85.485
03:43	MA52843-CCB24	84.601	86.551	86.122	85.022	87.266	87.258
03:47	MP34528-MB1	84.152	88.309	85.833	84.83	87.931	89.158
03:50	MP34528-B1	85.098	87.417	87.604	85.737	87.548	87.859
03:54	MP34528-S1	83.397	86.527	87.305	84.153	83.526	82.158
03:58	MP34528-S2	83.302	87.115	85.485	84.69	82.131	81.684
04:01	JD49644-1	84.105	88.055	87.7	85.242	84.811	85.234
04:05	ZZZZZZ	81.881	85.558	86.272	82.459	80.265	79.466
04:08	ZZZZZZ	81.216	84.387	86.124	82.199	79.772	78.727
04:12	ZZZZZZ	82.79	85.574	85.278	82.582	80.025	80.103
04:15	MA52843-CCVA25	85.239	87.867	87.9	85.022	88.669	85.98
04:19	MA52843-CCB25	85.884	89.214	89.975	86.4	90.533	89.706
04:23	ZZZZZZ	81.349	85.15	87.051	82.992	80.634	79.321
04:26	ZZZZZZ	83.257	86.907	86.634	83.426	80.076	80.192
04:29	ZZZZZZ	85.086	87.946	89.773	85.784	86.744	85.424
04:33	ZZZZZZ	87.449	90.555	91.288	88.527	89.608	88.394
04:36	ZZZZZZ	88.721	90.876	91.662	88.266	87.57	87.128
04:40	MA52843-CCVA26	88.465	91.481	91.962	89.115	91.279	90.111
04:43	MA52843-CCB26	88.99	92.858	91.696	89.316	92.293	93.675
04:46	ZZZZZZ	90.871	92.511	93.258	91.272	93.941	93.166
04:50	ZZZZZZ	91.308	94.687	94.463	92.25	95.177	95.089
04:53	ZZZZZZ	90.678	93.97	95.326	92.187	95.564	94.513

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#17	Terbium (159-2)	60-125 %	60-125 %
Istd#18	Terbium (159-3)	60-125 %	60-125 %
Istd#19	Holmium (165-1)	60-125 %	60-125 %
Istd#20	Holmium (165-2)	60-125 %	60-125 %
Istd#21	Bismuth (209-1)	60-125 %	60-125 %
Istd#22	Bismuth (209-2)	60-125 %	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: result < RL Run ID: MA52843 Units: ug/l

Time:			13:11		13:18		13:58		14:39	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.42	-1.17	<25	-0.0345	<25	1.93	<25	1.76	<25
Antimony	2.0	.085	anr							
Arsenic	0.50	.025	anr							
Barium	1.0	.009	-0.0398	<1.0	-0.0375	<1.0	-0.0409	<1.0	-0.0402	<1.0
Beryllium	0.50	.005	anr							
Boron	25	.85	anr							
Cadmium	0.50	.01	anr							
Calcium	250	3.6	-2.61	<250	-2.14	<250	-2.32	<250	-2.22	<250
Chromium	1.0	.018	anr							
Cobalt	0.50	.003	anr							
Copper	2.0	.024	-0.0385	<2.0	-0.0378	<2.0	-0.0240	<2.0	-0.0390	<2.0
Iron	25	.24	5.11	<25	9.56	<25	16.0	<25	15.2	<25
Lead	0.50	.008	0.00374	<0.50	0.0187	<0.50	0.0291	<0.50	0.0540	<0.50
Magnesium	250	.19	anr							
Manganese	1.0	.012	0.00417	<1.0	0.00252	<1.0	0.0108	<1.0	0.0197	<1.0
Molybdenum	1.0	.017	anr							
Nickel	1.0	.017	anr							
Potassium	250	.78								
Selenium	0.50	.044	anr							
Silver	0.50	.004	0.000417	<0.50	0.00495	<0.50	0.00508	<0.50	0.00665	<0.50
Sodium	250	1.5	anr							
Strontium	5.0	.014								
Thallium	0.50	.002	anr							
Tin	5.0	.041								
Titanium	1.0	.11								
Vanadium	1.0	.013	anr							
Zinc	5.0	.078	-0.772	<5.0	-0.980	<5.0	-0.778	<5.0	-0.759	<5.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: result < RL Run ID: MA52843 Units: ug/l

Time:			15:16		16:06		18:11		18:48	
Sample ID:			CCB4		CCB6		CCB7		CCB8	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.42	1.92	<25	1.54	<25	0.198	<25	0.345	<25
Antimony	2.0	.085	anr							
Arsenic	0.50	.025	anr							
Barium	1.0	.009	-0.0366	<1.0	-0.0305	<1.0	-0.0302	<1.0	-0.0304	<1.0
Beryllium	0.50	.005	anr							
Boron	25	.85	anr							
Cadmium	0.50	.01	anr							
Calcium	250	3.6	-3.90	<250	-4.39	<250	-4.70	<250	-3.89	<250
Chromium	1.0	.018	anr							
Cobalt	0.50	.003	anr							
Copper	2.0	.024	0.0537	<2.0	-0.0281	<2.0	-0.0538	<2.0	-0.0580	<2.0
Iron	25	.24	19.2	<25	17.5	<25	17.3	<25	16.6	<25
Lead	0.50	.008	0.0340	<0.50	0.0533	<0.50	0.0295	<0.50	0.0334	<0.50
Magnesium	250	.19	anr							
Manganese	1.0	.012	0.0764	<1.0	0.0790	<1.0	-0.00446	<1.0	0.0102	<1.0
Molybdenum	1.0	.017	anr							
Nickel	1.0	.017	anr							
Potassium	250	.78								
Selenium	0.50	.044	anr							
Silver	0.50	.004	0.00498	<0.50	0.00388	<0.50	0.00335	<0.50	0.00324	<0.50
Sodium	250	1.5	anr							
Strontium	5.0	.014								
Thallium	0.50	.002	anr							
Tin	5.0	.041								
Titanium	1.0	.11								
Vanadium	1.0	.013	anr							
Zinc	5.0	.078	-0.526	<5.0	-0.624	<5.0	-0.739	<5.0	-0.818	<5.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: result < RL Run ID: MA52843 Units: ug/l

Time:			19:24		19:49		20:22		21:00	
Sample ID:			CCB9		CCB10		CCB11		CCB12	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.42	0.165	<25	6.06	<25	0.935	<25	0.670	<25
Antimony	2.0	.085	anr							
Arsenic	0.50	.025	anr							
Barium	1.0	.009	-0.0198	<1.0	0.0365	<1.0	-0.0248	<1.0	-0.0261	<1.0
Beryllium	0.50	.005	anr							
Boron	25	.85	anr							
Cadmium	0.50	.01	anr							
Calcium	250	3.6	-4.17	<250	1.45	<250	-4.83	<250	-4.74	<250
Chromium	1.0	.018	anr							
Cobalt	0.50	.003	anr							
Copper	2.0	.024	0.00665	<2.0	0.00335	<2.0	-0.0463	<2.0	-0.0621	<2.0
Iron	25	.24	20.2	<25	24.5	<25	13.8	<25	12.6	<25
Lead	0.50	.008	0.0252	<0.50	0.0776	<0.50	0.0424	<0.50	0.0312	<0.50
Magnesium	250	.19	anr							
Manganese	1.0	.012	0.0256	<1.0	0.284	<1.0	0.00974	<1.0	0.00587	<1.0
Molybdenum	1.0	.017	anr							
Nickel	1.0	.017	anr							
Potassium	250	.78								
Selenium	0.50	.044	anr							
Silver	0.50	.004	0.00504	<0.50	0.0136	<0.50	0.00536	<0.50	0.00523	<0.50
Sodium	250	1.5	anr							
Strontium	5.0	.014								
Thallium	0.50	.002	anr							
Tin	5.0	.041								
Titanium	1.0	.11								
Vanadium	1.0	.013	anr							
Zinc	5.0	.078	-0.559	<5.0	-0.746	<5.0	-0.615	<5.0	-0.876	<5.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52843 Units: ug/l

Time:		12:50			12:54			13:15	
Sample ID:	ICVA	ICVA1		ICV	ICV1		CCVA	CCVA1	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	5500	5380	97.8	60	61.8	103.0	5000	4980	99.6
Antimony	anr								
Arsenic	anr								
Barium	60	59.5	99.2				50	50.1	100.2
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	5500	5310	96.5				5000	5220	104.4
Chromium	anr								
Cobalt	anr								
Copper	60	59.0	98.3				50	47.7	95.4
Iron	5500	5390	98.0				5000	5060	101.2
Lead	60	60.2	100.3				50	52.1	104.2
Magnesium	anr								
Manganese	60	60.0	100.0				50	48.9	97.8
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	60	63.7	106.2				50	53.1	106.2
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	60	58.4	97.3				50	46.3	92.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52843 Units: ug/l

Time:		13:54			14:35			15:13	
Sample ID:	CCVA	CCVA2		CCVA	CCVA3		CCVA	CCVA4	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	5000	5140	102.8	5000	5170	103.4	5000	5190	103.8
Antimony	anr								
Arsenic	anr								
Barium	50	51.2	102.4	50	50.2	100.4	50	49.5	99.0
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	5000	5210	104.2	5000	5180	103.6	5000	5220	104.4
Chromium	anr								
Cobalt	anr								
Copper	50	50.5	101.0	50	51.3	102.6	50	51.7	103.4
Iron	5000	5340	106.8	5000	5360	107.2	5000	5470	109.4
Lead	50	52.1	104.2	50	51.6	103.2	50	51.9	103.8
Magnesium	anr								
Manganese	50	51.7	103.4	50	52.1	104.2	50	52.8	105.6
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	50	53.5	107.0	50	53.5	107.0	50	52.6	105.2
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	50	49.8	99.6	50	50.1	100.2	50	51.9	103.8

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52843 Units: ug/l

Time:		16:02			18:08			18:44	
Sample ID:	CCVA	CCVA6		CCVA	CCVA7		CCVA	CCVA8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	5000	5040	100.8	5000	4950	99.0	5000	5030	100.6
Antimony	anr								
Arsenic	anr								
Barium	50	47.8	95.6	50	49.8	99.6	50	49.3	98.6
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	5000	5010	100.2	5000	5110	102.2	5000	5050	101.0
Chromium	anr								
Cobalt	anr								
Copper	50	49.5	99.0	50	47.0	94.0	50	48.7	97.4
Iron	5000	5320	106.4	5000	5070	101.4	5000	5180	103.6
Lead	50	50.0	100.0	50	51.3	102.6	50	49.9	99.8
Magnesium	anr								
Manganese	50	50.7	101.4	50	48.5	97.0	50	49.5	99.0
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	50	50.7	101.4	50	52.3	104.6	50	52.0	104.0
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	50	49.0	98.0	50	45.9	91.8	50	47.8	95.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52843 Units: ug/l

Time:		19:20			19:46			20:19	
Sample ID:	CCVA	CCVA9		CCVA	CCVA10		CCVA	CCVA11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	5000	5160	103.2	5000	5020	100.4	5000	5090	101.8
Antimony	anr								
Arsenic	anr								
Barium	50	47.3	94.6	50	47.9	95.8	50	47.7	95.4
Beryllium	anr								
Boron	anr								
Cadmium	anr								
Calcium	5000	5050	101.0	5000	5050	101.0	5000	5110	102.2
Chromium	anr								
Cobalt	anr								
Copper	50	49.6	99.2	50	47.9	95.8	50	48.8	97.6
Iron	5000	5310	106.2	5000	5160	103.2	5000	5240	104.8
Lead	50	49.7	99.4	50	49.4	98.8	50	50.4	100.8
Magnesium	anr								
Manganese	50	51.2	102.4	50	49.7	99.4	50	50.2	100.4
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	50	50.6	101.2	50	50.1	100.2	50	50.6	101.2
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	50	49.6	99.2	50	47.8	95.6	50	47.8	95.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52843 Units: ug/l

Time:		20:57	
Sample ID:	CCVA	CCVA12	
Metal	True	Results	% Rec
Aluminum	5000	4980	99.6
Antimony	anr		
Arsenic	anr		
Barium	50	47.4	94.8
Beryllium	anr		
Boron	anr		
Cadmium	anr		
Calcium	5000	5090	101.8
Chromium	anr		
Cobalt	anr		
Copper	50	48.4	96.8
Iron	5000	5160	103.2
Lead	50	49.8	99.6
Magnesium	anr		
Manganese	50	49.7	99.4
Molybdenum	anr		
Nickel	anr		
Potassium			
Selenium	anr		
Silver	50	50.7	101.4
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	50	47.7	95.4

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 80 to 120 % Recovery Run ID: MA52843 Units: ug/l

Time:			13:25	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Aluminum	25	25	26.6	106.4
Antimony	2.0	0.25	anr	
Arsenic	0.50	0.50	anr	
Barium	1.0	0.50	0.953	95.3
Beryllium	0.50	0.25	anr	
Boron	25	2.5	anr	
Cadmium	0.50	0.25	anr	
Calcium	250	125	255	102.0
Chromium	1.0	2.0	anr	
Cobalt	0.50	0.25	anr	
Copper	2.0	2.0	2.06	103.0
Iron	25	25	23.8	95.2
Lead	0.50	0.25	0.503	100.6
Magnesium	250	125	anr	
Manganese	1.0	0.25	1.05	105.0
Molybdenum	1.0	0.50	anr	
Nickel	1.0	2.0	anr	
Potassium	250	125		
Selenium	0.50	0.50	anr	
Silver	0.50	1.0	0.495	99.0
Sodium	250	125	anr	
Strontium	5.0	0.50		
Thallium	0.50	0.25	anr	
Tin	5.0	0.50		
Titanium	1.0	0.50		
Vanadium	1.0	2.0	anr	
Zinc	5.0	2.0	5.85	117.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081022M1.CSV Date Analyzed: 08/10/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 80 to 120 % Recovery Run ID: MA52843 Units: ug/l

Time:			13:28		13:32	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	100000	100000	84400	84.4	90900	90.9
Antimony			0.0743		0.0940	
Arsenic		20	0.0931		19.4	97.0
Barium			0.546		0.510	
Beryllium			0.00354		-0.00137	
Boron		50	1.93		50.4	100.8
Cadmium		20	-0.227		21.9	109.5
Calcium	100000	100000	86000	86.0	91800	91.8
Chromium		20	0.425		20.2	101.0
Cobalt		20	0.0469		19.2	96.0
Copper		20	0.0274		18.1	90.5
Iron	100000	100000	83300	83.3	90200	90.2
Lead			0.170		0.232	
Magnesium	100000	100000	83900	83.9	90000	90.0
Manganese		20	0.446		19.9	99.5
Molybdenum	2000	2000	2030	101.5	2050	102.5
Nickel		20	0.756		19.4	97.0
Potassium	100000	100000	84000HH	84.0	90300HH	90.3
Selenium		20	0.184		21.9	109.5
Silver		20	0.0319		21.0	105.0
Sodium	100000	100000	84700	84.7	91000	91.0
Strontium	2000	2000	2050HH	102.5	2060HH	103.0
Thallium			0.0141		0.0119	
Tin	2000	2000	2160HH	108.0	2200HH	110.0
Titanium	2000	2000	1740HH	87.0	1860HH	93.0
Vanadium		20	0.0101		20.4	102.0
Zinc		20	1.81		22.8	114.0

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:52	MA52850-STD1	1		STDA
13:56	MA52850-STD2	1		STDA
13:59	MA52850-STD3	1		STDA
14:03	MA52850-STD4	1		STDB
14:07	MA52850-STD5	1		STDC
14:10	MA52850-STD6	1		STDD
14:14	MA52850-STD7	1		STDE
14:18	MA52850-STD8	1		STDF
14:21	MA52850-STD9	1		STDG
14:25	MA52850-STD10	1		STDH
14:28	MA52850-STD11	1		STDI
14:32	MA52850-STD12	1		STDJ
14:58	ZZZZZZ	1		
15:02	ZZZZZZ	1		
15:05	MA52850-ICVA1	1		
15:08	MA52850-ICV1	1		
15:12	MA52850-ICB1	1		
15:16	ZZZZZZ	1		
15:19	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:26	MA52850-CCVA1	1		
15:29	MA52850-CCB1	1		
15:33	ZZZZZZ	1		
15:36	ZZZZZZ	1		
15:49	MA52850-CRI1	1		
15:53	MA52850-ICSA1	1		
15:56	MA52850-ICSAB1	1		
16:06	ZZZZZZ	5		
16:10	ZZZZZZ	5		
16:13	JD49400-1	10		
---------->	Last reportable sample/prep for job JD49400			
16:17	MA52850-CCVA2	1		
16:20	MA52850-CCB2	1		
---------->	Last reportable CCB for job JD49400			
16:23	MP34508-S1	10		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:27	MP34508-S2	10		
16:30	JD49555-1	10		(sample used for QC only; not part of login JD49400)
16:34	MP34508-SD1	50		
16:37	ZZZZZZ	2		
16:41	ZZZZZZ	2		
16:45	ZZZZZZ	1		
16:48	ZZZZZZ	1		
16:52	MA52850-CCVA3	1		
16:55	MA52850-CCB3	1		
16:59	MP34509-S1	5		
17:02	MP34509-S2	5		
17:06	JD49494-1	5		(sample used for QC only; not part of login JD49400)
17:09	ZZZZZZ	5		
17:13	ZZZZZZ	20		
17:16	ZZZZZZ	1		
17:20	ZZZZZZ	1		
17:23	MA52850-CCVA4	1		
17:27	MA52850-CCB4	1		
17:30	ZZZZZZ	20		
17:33	ZZZZZZ	1		
17:37	ZZZZZZ	2		
17:40	ZZZZZZ	20		
17:43	ZZZZZZ	1		
17:47	ZZZZZZ	1		
17:51	MA52850-CCVA5	1		
17:54	MA52850-CCB5	1		
17:57	MP34558-MB1	2		
18:01	MP34558-LB1	2		
18:04	MP34558-B1	2		
18:07	MP34558-LS1	2		
18:11	MP34558-S1	2		
18:14	MP34558-S2	2		
18:18	JD49472-1A	2		(sample used for QC only; not part of login JD49400)

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:21	MP34558-SD1	10		
18:24	ZZZZZZ	2		
18:28	MA52850-CCVA6	1		
18:31	MA52850-CCB6	1		
18:34	MP34510-S1	5		
18:38	MP34510-S2	5		
18:41	ZZZZZZ	1		
18:44	ZZZZZZ	1		
18:48	ZZZZZZ	1		
18:51	MP34528-S2	2		
18:54	ZZZZZZ	1		
18:58	ZZZZZZ	1		
19:01	MA52850-CCVA7	1		
19:04	MA52850-CCB7	1		
19:08	MP34536-MB1	1		CCB out
19:11	MP34536-MB2	1		CCB out
19:14	MP34536-B1	1		CCB out
19:18	MP34536-B2	25		rerun ZN on higher dilution
19:21	ZZZZZZ	1		
19:24	MP34536-S1	1		high elements
19:27	JD49653-1	1		(sample used for QC only; not part of login JD49400)
19:31	ZZZZZZ	1		
19:34	ZZZZZZ	1		
19:38	MA52850-CCVA8	1		
19:41	MA52850-CCB8	1		
19:44	MP34505A-MB1	2		
19:48	MP34505A-B2	2		
19:51	MP34505A-S3	2		
19:55	MP34505A-S4	2		
19:58	JD49525-4F	2		(sample used for QC only; not part of login JD49400)
20:02	MP34505A-SD1	10		
20:05	ZZZZZZ	2		
20:09	ZZZZZZ	2		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:12	MA52850-CCVA9	1		
20:15	MA52850-CCB9	1		
20:19	ZZZZZZ	2		
20:22	ZZZZZZ	2		
20:26	ZZZZZZ	2		
20:29	ZZZZZZ	2		
20:33	ZZZZZZ	2		
20:37	ZZZZZZ	2		
20:40	MA52850-CCVA10	1		
20:44	MA52850-CCB10	1		
20:47	ZZZZZZ	1		
20:51	MP34536-S2	1		high elements
20:54	ZZZZZZ	1		
21:00	MA52850-CCVA11	1		
21:03	MA52850-CCB11	1		
21:07	MP34538A-MB1	2		
21:11	MP34538A-B2	2		
21:14	MP34538A-S3	2		
21:18	MP34538A-S4	2		
21:21	JD49679-2	2		(sample used for QC only; not part of login JD49400)
21:25	MP34538A-SD1	10		
21:28	MA52850-CCVA12	1		
21:32	MA52850-CCB12	1		
21:36	ZZZZZZ	2		
21:39	ZZZZZZ	2		
21:43	ZZZZZZ	2		
21:47	ZZZZZZ	2		
21:50	ZZZZZZ	1		
21:54	ZZZZZZ	1		
21:57	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Element: Dilution	Zn	
14:58	ZZZZZZ	1		
15:02	ZZZZZZ	1		
15:05	MA52850-ICVA1	1	X	
15:08	MA52850-ICV1	1	X	
15:12	MA52850-ICB1	1	X	
15:16	ZZZZZZ	1		
15:19	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:26	MA52850-CCVA1	1	X	
15:29	MA52850-CCB1	1	X	
15:33	ZZZZZZ	1		
15:36	ZZZZZZ	1		
15:49	MA52850-CRI1	1	X	
15:53	MA52850-ICSA1	1	X	
15:56	MA52850-ICSAB1	1	X	
16:06	ZZZZZZ	5		
16:10	ZZZZZZ	5		
16:13	JD49400-1	10	X	
16:17	MA52850-CCVA2	1	X	
16:20	MA52850-CCB2	1	X	
16:23	MP34508-S1	10		
16:27	MP34508-S2	10		
16:30	JD49555-1	10		(a)
16:34	MP34508-SD1	50		
16:37	ZZZZZZ	2		
16:41	ZZZZZZ	2		
16:45	ZZZZZZ	1		
16:48	ZZZZZZ	1		
16:52	MA52850-CCVA3	1	X	
16:55	MA52850-CCB3	1	X	
16:59	MP34509-S1	5	X	
17:02	MP34509-S2	5	X	
17:06	JD49494-1	5		(a)
		Element:	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Element: Dilution	Zn	
17:09	ZZZZZZ	5		
17:13	ZZZZZZ	20		
17:16	ZZZZZZ	1		
17:20	ZZZZZZ	1		
17:23	MA52850-CCVA4	1	X	
17:27	MA52850-CCB4	1	X	
17:30	ZZZZZZ	20		
17:33	ZZZZZZ	1		
17:37	ZZZZZZ	2		
17:40	ZZZZZZ	20		
17:43	ZZZZZZ	1		
17:47	ZZZZZZ	1		
17:51	MA52850-CCVA5	1	X	
17:54	MA52850-CCB5	1	X	
17:57	MP34558-MB1	2		
18:01	MP34558-LB1	2		
18:04	MP34558-B1	2		
18:07	MP34558-LS1	2		
18:11	MP34558-S1	2		
18:14	MP34558-S2	2		
18:18	JD49472-1A	2		(a)
18:21	MP34558-SD1	10		
18:24	ZZZZZZ	2		
18:28	MA52850-CCVA6	1	X	
18:31	MA52850-CCB6	1	X	
18:34	MP34510-S1	5		
18:38	MP34510-S2	5		
18:41	ZZZZZZ	1		
18:44	ZZZZZZ	1		
18:48	ZZZZZZ	1		
18:51	MP34528-S2	2		
18:54	ZZZZZZ	1		
18:58	ZZZZZZ	1		
		Element:	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Element: Dilution	Zn	
19:01	MA52850-CCVA7	1	X	
19:04	MA52850-CCB7	1	X	
19:08	MP34536-MB1	1	X	
19:11	MP34536-MB2	1	X	
19:14	MP34536-B1	1	X	
19:18	MP34536-B2	25		
19:21	ZZZZZZ	1		
19:24	MP34536-S1	1		
19:27	JD49653-1	1		(a)
19:31	ZZZZZZ	1		
19:34	ZZZZZZ	1		
19:38	MA52850-CCVA8	1	X	
19:41	MA52850-CCB8	1	X	
19:44	MP34505A-MB1	2		
19:48	MP34505A-B2	2		
19:51	MP34505A-S3	2		
19:55	MP34505A-S4	2		
19:58	JD49525-4F	2		(a)
20:02	MP34505A-SD1	10		
20:05	ZZZZZZ	2		
20:09	ZZZZZZ	2		
20:12	MA52850-CCVA9	1	X	
20:15	MA52850-CCB9	1	X	
20:19	ZZZZZZ	2		
20:22	ZZZZZZ	2		
20:26	ZZZZZZ	2		
20:29	ZZZZZZ	2		
20:33	ZZZZZZ	2		
20:37	ZZZZZZ	2		
20:40	MA52850-CCVA10	1	X	
20:44	MA52850-CCB10	1	X	
20:47	ZZZZZZ	1		
20:51	MP34536-S2	1		
		Element:	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Element: Dilution	Zn	
20:54	ZZZZZZ	1		
21:00	MA52850-CCVA11	1	X	
21:03	MA52850-CCB11	1	X	
21:07	MP34538A-MB1	2		
21:11	MP34538A-B2	2		
21:14	MP34538A-S3	2		
21:18	MP34538A-S4	2		
21:21	JD49679-2	2		(a)
21:25	MP34538A-SD1	10		
21:28	MA52850-CCVA12	1	X	
21:32	MA52850-CCB12	1	X	
21:36	ZZZZZZ	2		
21:39	ZZZZZZ	2		
21:43	ZZZZZZ	2		
21:47	ZZZZZZ	2		
21:50	ZZZZZZ	1		
21:54	ZZZZZZ	1		
21:57	ZZZZZZ	1		

(a) Sample used for QC only; not part of login JD49400.

Element: Zn

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
13:52	MA52850-STD1	100	100	100	100	100	100	100	100
13:56	MA52850-STD2	100	100	100	100	100	100	100	100
13:59	MA52850-STD3	100	100	100	100	100	100	100	100
14:03	MA52850-STD4	101.438	98.63	100.438	99.463	100.765	100.122	100.625	101.07
14:07	MA52850-STD5	100.988	100.978	105.691	102.627	99.937	104.216	102.236	100.521
14:10	MA52850-STD6	101.864	101.038	102.698	103.105	101.084	99.935	99.947	100.861
14:14	MA52850-STD7	101.192	99.229	101.527	102.334	100.437	101.661	100.385	100.956
14:18	MA52850-STD8	98.633	96.325	100.774	101.972	97.677	100.465	100.408	98.294
14:21	MA52850-STD9	99.246	97.373	101.628	101.954	98.918	100.724	101.03	100.406
14:25	MA52850-STD10	100.221	99.355	103.602	102.773	99.854	101.501	102.403	101.416
14:28	MA52850-STD11	98.338	100.287	102.777	104.853	98.547	98.777	99.459	98.709
14:32	MA52850-STD12	95.578	98.343	104.876	103.479	96.609	98.043	97.587	96.428
14:58	ZZZZZZ	99.088	95.332	100.225	97.598	92.889	96.983	94.514	93.451
15:02	ZZZZZZ	99.05	95.556	97.891	95.084	94.111	98.427	97.799	94.666
15:05	MA52850-ICVA1	97.377	99.381	103.429	100.836	97.242	101.162	99.465	97.575
15:08	MA52850-ICV1	97.7	93.979	97.368	93.163	95.405	97.833	96.476	95.674
15:12	MA52850-ICB1	98.124	94.149	96.138	93.323	93.368	98.731	96.672	94.18
15:16	ZZZZZZ	0.346 !	0.959 !	0.68 !	0.432 !	0.55 !	0.197 !	0.216 !	0.216 !
15:19	ZZZZZZ	98.421	96.17	102.567	101.915	93.776	98.44	96.487	93.943
15:23	ZZZZZZ	97.659	94.512	97.572	96.174	94.653	97.39	96.51	95.066
15:26	MA52850-CCVA1	97.442	98.997	107.086	105.697	94.864	98.349	98.033	96.343
15:29	MA52850-CCB1	97.319	94.494	98.328	95.751	95.241	97.957	95.973	95.23
15:33	ZZZZZZ	95.809	94.368	94.814	93.499	94.049	97.181	96.585	94.234
15:36	ZZZZZZ	0.395 !	0.979 !	0.651 !	0.41 !	0.553 !	0.217 !	0.18 !	0.231 !
15:49	MA52850-CRI1	95.473	93.026	102.125	101.291	90.36	94.234	89.699	90.164
15:53	MA52850-ICSA1	86.131	94.524	102.517	101.484	85.808	85.744	82.373	81.128
15:56	MA52850-ICSAB1	80.845	83.66	88.495	85.873	82.911	83.212	80.816	77.91
16:06	ZZZZZZ	86.255	84.912	87.243	85.679	83.4	87.197	86.527	84.308
16:10	ZZZZZZ	86.98	87.124	89.303	86.047	86.009	90.474	88.674	86.69
16:13	JD49400-1	90.843	87.311	87.787	84.923	88.377	92.652	91.152	88.992
16:17	MA52850-CCVA2	85.631	86.067	90.067	88.851	86.183	90.948	89.23	86.287
16:20	MA52850-CCB2	88.632	86.884	87.704	86.308	87.995	90.316	87.755	88.409
16:23	MP34508-S1	90.295	86.248	88.456	85.035	88.951	92.405	90.281	89.24

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
16:27	MP34508-S2	89.134	85.584	87.681	84.641	87.641	92.765	90.147	88.962
16:30	JD49555-1	89.716	84.65	86.603	83.086	87.672	91.625	89.131	88.806
16:34	MP34508-SD1	91.007	82.979	86.56	81.263	88.043	92.861	91.211	88.556
16:37	ZZZZZZ	86.421	86.429	87.746	88.541	87.216	87.038	87.894	87.047
16:41	ZZZZZZ	86.493	86.682	87.713	88.608	86.722	88.274	87.89	87.087
16:45	ZZZZZZ	90.037	87.861	90.49	86.701	89.736	92.636	91.596	90.327
16:48	ZZZZZZ	90.085	88.499	91.12	89.798	89.093	92.512	91.32	89.716
16:52	MA52850-CCVA3	91.023	90.853	94.947	92.697	90.577	94.664	92.86	90.963
16:55	MA52850-CCB3	90.746	87.579	90.674	88.604	88.688	92.521	91.773	89.655
16:59	MP34509-S1	92.889	87.707	90.207	84.749	91.596	95.689	92.628	91.754
17:02	MP34509-S2	90.197	86.444	89.977	85.703	90.276	94.388	91.977	90.384
17:06	JD49494-1	89.043	85.567	87.55	82.789	89.386	92.061	91.388	89.688
17:09	ZZZZZZ	88.475	89.162	93.333	90.5	87.67	92.162	89.216	88.053
17:13	ZZZZZZ	89.944	84.452	87.964	84.501	88.073	92.659	90.633	88.708
17:16	ZZZZZZ	82.697	100.289	99.753	97.943	85.198	89.541	88.644	84.305
17:20	ZZZZZZ	85.444	82.942	85.685	84.605	83.746	86.824	86.472	84.235
17:23	MA52850-CCVA4	85.183	85.434	88.929	86.603	85.238	89.599	89.051	86.148
17:27	MA52850-CCB4	87.265	84.831	86.987	83.841	86.108	89.138	87.585	85.522
17:30	ZZZZZZ	90.294	84.173	84.358	81.381	87.149	90.737	86.89	86.964
17:33	ZZZZZZ	85.939	79.01	83.272	80.786	82.78	88.4	84.981	83.429
17:37	ZZZZZZ	82.798	82.994	85.399	82.57	80.939	84.233	83.137	81.559
17:40	ZZZZZZ	85.504	79.362	81.301	76.128	83.156	86.995	83.817	83.63
17:43	ZZZZZZ	0.421 !	0.734 !	0.418 !	0.332 !	0.367 !	0.163 !	0.148 !	0.194 !
17:47	ZZZZZZ	0.378 !	0.243 !	0.192 !	0.168 !	0.423 !	0.178 !	0.154 !	0.185 !
17:51	MA52850-CCVA5	78.76	78.731	84.123	85.825	76.048	79.496	79.834	77.118
17:54	MA52850-CCB5	78.954	75.579	78.168	75.272	76.163	77.77	77.548	76.542
17:57	MP34558-MB1	78.139	75.918	75.724	75.747	76.9	77.304	76.825	77.122
18:01	MP34558-LB1	77.536	73.9	73.4	73.501	76.225	77.368	76.949	76.363
18:04	MP34558-B1	75.535	74.152	73.331	74.279	74.012	74.089	75.003	74.789
18:07	MP34558-LS1	75.044	72.426	112.091	113.403	73.33	111.871	114.703	74.094
18:11	MP34558-S1	99.678	107.135	106.659	112.104	111.309	110.613	115.486	111.469
18:14	MP34558-S2	98.045	106.621	106.036	110.332	110.145	107.564	113.034	110.409
18:18	JD49472-1A	98.871	105.007	106.828	109.649	109.351	110.171	114.535	109.263

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
18:21	MP34558-SD1	100.304	99.663	101.24	99.798	106.577	108.708	112.11	107.562
18:24	ZZZZZZ	100.083	107.809	106.913	111.827	110.069	107.296	111.393	109.338
18:28	MA52850-CCVA6	99.265	103.767	106.724	105.088	106.45	109.647	110.323	107.185
18:31	MA52850-CCB6	101.669	104.762	108.353	109.921	107.24	109.242	111.209	108.396
18:34	MP34510-S1	104.218	103.147	106.518	102.361	109.177	111.422	111.323	109.753
18:38	MP34510-S2	100.912	102.201	107.583	103.996	107.454	111.806	110.495	108.141
18:41	ZZZZZZ	100.62	104.404	110.747	112.417	105.706	107.177	109.314	106.479
18:44	ZZZZZZ	101.535	105.057	113.492	110.653	105.441	111.621	110.454	107.152
18:48	ZZZZZZ	94.318	105.601	107.173	107.739	103.476	106.728	107.275	104.897
18:51	MP34528-S2	97.67	104.045	107.144	104.72	106.35	110.458	109.876	106.796
18:54	ZZZZZZ	100.305	102.349	109.109	107.793	106.888	108.499	109.355	107.508
18:58	ZZZZZZ	99.788	105.692	109.895	110.554	106.177	109.842	109.294	107.382
19:01	MA52850-CCVA7	98.564	103.98	108.679	108.689	106.234	109.161	108.498	107.632
19:04	MA52850-CCB7	99.648	101.322	107.52	105.663	103.88	108.656	107.759	104.634
19:08	MP34536-MB1	100.019	100.722	106.146	103.891	103.679	107.805	107.733	104.416
19:11	MP34536-MB2	102.412	104.958	108.518	107.794	105.158	109.53	110.25	106.593
19:14	MP34536-B1	100.913	106.941	112.57	110.99	107.674	112.088	111.702	108.95
19:18	MP34536-B2	100.386	99.468	106.487	101.345	106.71	111.202	109.74	107.728
19:21	ZZZZZZ	0.6 !	1.197 !	1.632 !	0.502 !	0.816 !	1.33 !	0.334 !	0.479 !
19:24	MP34536-S1	92.398	124.663	121.304	122.409	102.921	102.967	103.231	99.108
19:27	JD49653-1	92.238	118.937	115.005	115.766	103.526	103.124	104.249	99.781
19:31	ZZZZZZ	0.389 !	0.441 !	0.306 !	0.591 !	0.632 !	0.337 !	0.588 !	0.307 !
19:34	ZZZZZZ	89.646	101.415	98.197	98.547	95.794	97.695	99.333	96.869
19:38	MA52850-CCVA8	95.265	101.971	104.294	105.744	103.122	104.08	107.593	104.497
19:41	MA52850-CCB8	98.204	101.029	104.36	107.499	104.611	106.362	110.751	104.705
19:44	MP34505A-MB1	101.897	107.533	106.275	112.521	110.024	106.895	113.714	110.313
19:48	MP34505A-B2	101.883	109.361	108.129	111.043	112.307	108.856	112.449	112.477
19:51	MP34505A-S3	95.71	105.758	103.957	107.222	107.316	103.517	108.664	109.004
19:55	MP34505A-S4	93.395	102.715	102.762	107.136	105.636	103.547	109.681	106.911
19:58	JD49525-4F	95.267	104.348	99.509	104.832	105.769	101.169	105.845	105.858
20:02	MP34505A-SD1	100.36	101.786	100.676	97.681	107.226	109.4	111.022	107.632
20:05	ZZZZZZ	93.442	106.898	101.223	103.42	99.735	95.255	98.793	99.85
20:09	ZZZZZZ	92.671	101.935	99.553	101.522	100.721	99.78	105.376	100.724

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
20:12	MA52850-CCVA9	98.951	104.825	107.781	103.993	108.763	111.963	111.502	109.506
20:15	MA52850-CCB9	102.435	106.587	108.623	111.157	108.144	110.822	112.02	109.013
20:19	ZZZZZZ	94.86	108.672	105.599	108.267	104.726	102.962	105.997	103.756
20:22	ZZZZZZ	97.004	105.761	105.984	109.273	104.789	105.349	108.397	105.109
20:26	ZZZZZZ	97.613	107.159	102.282	103.741	106.597	103.181	106.429	106.144
20:29	ZZZZZZ	95.052	107.557	104.793	108.07	104.657	102.121	105.527	104.312
20:33	ZZZZZZ	99.396	109.254	104.866	105.629	108.625	106.317	107.574	108.711
20:37	ZZZZZZ	96.534	105.675	101.438	104.633	104.31	102.019	106.134	105.124
20:40	MA52850-CCVA10	99.792	104.076	106.351	103.99	106.842	110.026	110.403	107.988
20:44	MA52850-CCB10	100.469	105.419	109.494	108.058	108.291	109.788	111.441	107.656
20:47	ZZZZZZ	93.251	126.894	123.378	125.078	104.78	105.389	107.355	101.577
20:51	MP34536-S2	93.647	125.54 !	119.72	120.752	106.886	104.682	106.709	103.115
20:54	ZZZZZZ	88.451	103.737	99.604	97.989	98.973	99.452	99.836	99.778
21:00	MA52850-CCVA11	96.615	104.754	105.949	106.173	106.973	107.619	110.285	108.056
21:03	MA52850-CCB11	100.115	104.439	106.185	105.028	107.671	108.22	109.279	108.511
21:07	MP34538A-MB1	100.444	108.008	106.049	111.223	109.449	107.232	112.42	110.428
21:11	MP34538A-B2	98.756	108.388	106.087	111.836	110.432	107.297	115.015	111.545
21:14	MP34538A-S3	90.52	127.48	116.497	124.077	106.54	105.517	111.609	103.656
21:18	MP34538A-S4	92.455	131.6 !	122.113	127.646	111.218	110.074	114.638	108.129
21:21	JD49679-2	93.276	129.133	120.702	124.621	112.118	109.664	114.624	107.747
21:25	MP34538A-SD1	97.739	110.976	112.79	111.876	109.915	114.697	113.997	110.084
21:28	MA52850-CCVA12	100.343	109.805	113.071	112.402	113.096	115.687	115.371	114.285
21:32	MA52850-CCB12	109.784	115.546	113.069	109.968	117.918	115.804	114.756	119.211
21:36	ZZZZZZ	103.136	103.098	104.774	96.49	111.423	114.218	110.321	111.987
21:39	ZZZZZZ	99.532	101.586	105.689	97.915	108.444	111.675	107.505	108.904
21:43	ZZZZZZ	93.966	101.134	105.712	101.686	103.038	108.742	107.17	104.684
21:47	ZZZZZZ	96.607	101.437	106.551	102.506	104.713	109.588	107.724	105.933
21:50	ZZZZZZ	96.199	104.632	108.031	111.512	103.965	105.315	105.862	104.386
21:54	ZZZZZZ	96.772	102.482	103.954	104.189	104.596	105.529	106.758	104.877
21:57	ZZZZZZ	97.174	104.347	104.182	103.822	105.767	105.223	106.757	105.405

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#1	Lithium	60-125 %	60-125 %
Istd#2	Scandium (45-1)	60-125 %	60-125 %
Istd#3	Scandium (45-2)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
Istd#8	Scandium (45-3)		60-125 %	60-125 %					
Istd#5	Germanium (72-1)		60-125 %	60-125 %					
Istd#6	Germanium (72-2)		60-125 %	60-125 %					
Istd#7	Germanium (72-3)		60-125 %	60-125 %					
Istd#8	Germanium (74-1)		60-125 %	60-125 %					

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
13:52	MA52850-STD1	100	100	100	100	100	100	100	100
13:56	MA52850-STD2	100	100	100	100	100	100	100	100
13:59	MA52850-STD3	100	100	100	100	100	100	100	100
14:03	MA52850-STD4	99.84	100.306	99.52	99.199	99.935	101.111	100.898	100.653
14:07	MA52850-STD5	104.574	101.496	98.224	104.523	101.181	98.861	104.089	99.359
14:10	MA52850-STD6	100.964	100.587	97.978	99.377	100.831	99.403	100.858	98.641
14:14	MA52850-STD7	101.249	102.129	97.563	99.209	101.669	98.026	101.759	98.724
14:18	MA52850-STD8	100.399	101.44	95.166	97.388	102.071	95.956	100.292	95.162
14:21	MA52850-STD9	100.326	102.232	96.817	97.597	101.325	97.393	100.861	98.203
14:25	MA52850-STD10	101.743	102.763	97.384	98.777	101.287	97.964	101.157	99.657
14:28	MA52850-STD11	100.381	98.155	93.804	96.306	97.654	96.49	99.091	99.073
14:32	MA52850-STD12	97.389	98.612	92.391	93.586	94.962	93.218	96.558	96.978
14:58	ZZZZZZ	96.655	94.582	95.405	98.628	95.031	96.537	96.638	96.905
15:02	ZZZZZZ	98.946	96.209	95.794	99.365	96.91	96.59	98.076	96.186
15:05	MA52850-ICVA1	101.561	100.511	92.515	95.306	96.513	94.663	98.822	97.096
15:08	MA52850-ICV1	98.06	96.829	94.368	97.815	97.476	95.667	98.901	95.238
15:12	MA52850-ICB1	98.892	96.221	94.49	98.145	97.18	94.608	98.64	94.19
15:16	ZZZZZZ	0.196 !	0.179 !	0.022 !	0.025 !	0.017 !	0.027 !	0.036 !	0.039 !
15:19	ZZZZZZ	97.037	96.498	94.507	97.368	96.709	94.928	96.782	95.682
15:23	ZZZZZZ	98.13	96.724	95.688	97.788	96.415	95.718	98.364	95.073
15:26	MA52850-CCVA1	99.718	97.599	91.84	95.828	95.549	93.072	98.256	95.308
15:29	MA52850-CCB1	97.909	96.1	94.18	97.665	96.473	94.577	98.272	94.634
15:33	ZZZZZZ	97.418	96.642	92.907	96.36	97.77	93.906	96.469	93.921
15:36	ZZZZZZ	0.169 !	0.167 !	0.052 !	0.032 !	0.02 !	0.053 !	0.043 !	0.066 !
15:49	MA52850-CRI1	94.261	90.554	91.649	95.899	89.739	92.883	94.525	92.773
15:53	MA52850-ICSA1	84.628	80.175	76.283	77.564	74.934	73.746	71.44	87.118
15:56	MA52850-ICSAB1	81.689	80.516	73.768	73.649	75.156	70.657	70.636	83.463
16:06	ZZZZZZ	87.216	86.61	85.708	89.446	86.551	87.26	88.602	87.426
16:10	ZZZZZZ	90.344	89.344	85.764	88.426	88.411	86.403	90.486	88.961
16:13	JD49400-1	92.652	91.315	87.885	90.686	90.541	89.351	93.124	90.578
16:17	MA52850-CCVA2	90.111	89.694	82.69	85.188	87.646	84.546	89.37	86.154
16:20	MA52850-CCB2	91.025	88.54	87.372	89.574	89.506	88.31	91.381	89.311
16:23	MP34508-S1	92.725	90.881	86.009	90.012	89.286	88.778	93.469	89.656

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
16:27	MP34508-S2	92.172	89.522	86.152	89.602	88.731	88.345	92.187	88.976
16:30	JD49555-1	91.569	89.33	84.883	88.454	88.987	88.252	91.716	88.704
16:34	MP34508-SD1	92.676	91.121	87.662	90.997	90.121	90.347	93.1	89.489
16:37	ZZZZZZ	86.689	88.584	85.562	86.669	87.503	86.342	86.792	89.13
16:41	ZZZZZZ	88.342	89.837	84.732	85.705	88.125	85.48	87.541	88.915
16:45	ZZZZZZ	93.707	92.277	85.821	89.152	90.104	87.346	92.309	90.527
16:48	ZZZZZZ	92.336	90.537	89.133	91.676	91.28	89.61	93.011	90.409
16:52	MA52850-CCVA3	94.904	92.353	87.294	89.085	90.348	88.516	92.654	90.75
16:55	MA52850-CCB3	92.484	92.097	88.39	90.89	91.601	89.292	92.751	90.59
16:59	MP34509-S1	94.698	92.716	88.048	90.805	89.394	89.905	93.762	91.182
17:02	MP34509-S2	94.013	92.287	86.383	89.409	89.007	88.678	92.982	90.081
17:06	JD49494-1	92.78	90.341	85.498	88.475	88.674	88.833	91.493	89.374
17:09	ZZZZZZ	92.012	89.143	84.585	87.35	87.245	87.851	90.546	88.768
17:13	ZZZZZZ	91.986	91.35	85.335	88.55	89.071	88.403	92.283	88.559
17:16	ZZZZZZ	86.909	87.085	78.846	80.659	82.173	81.672	85.073	87.041
17:20	ZZZZZZ	86.665	86.119	83.742	86.5	86.653	85.21	87.355	85.676
17:23	MA52850-CCVA4	89.955	88.52	82.157	85.63	86.339	84.266	88.017	86.871
17:27	MA52850-CCB4	88.766	87.024	84.575	87.288	86.935	85.588	88.566	86.454
17:30	ZZZZZZ	89.998	87.508	84.795	87.067	85.756	86.403	89.721	87.087
17:33	ZZZZZZ	87.94	85.549	82.681	85.844	85.236	84.022	87.84	84.18
17:37	ZZZZZZ	83.991	82.431	77.55	79.583	79.725	80.452	83.165	83.066
17:40	ZZZZZZ	87.229	84.944	81.463	84.233	83.347	83.197	86.919	84.24
17:43	ZZZZZZ	0.166 !	0.134 !	0.018 !	0.012 !	0.01 !	0.029 !	0.027 !	0.026 !
17:47	ZZZZZZ	0.168 !	0.171 !	0.007 !	0.009 !	0.009 !	0.027 !	0.028 !	0.012 !
17:51	MA52850-CCVA5	80.297	79.765	75.105	77.819	78.429	76.559	79.164	79.203
17:54	MA52850-CCB5	78.771	78.281	75.818	78.976	78.424	77.661	79.368	78.392
17:57	MP34558-MB1	77.844	77.851	76.268	76.047	76.446	76.375	75.951	78.83
18:01	MP34558-LB1	78.079	77.059	74.358	74.319	76.089	76.072	75.491	77.273
18:04	MP34558-B1	73.994	75.632	71.647	71.813	74.734	73.503	73.63	76.725
18:07	MP34558-LS1	112.281	114.785	71.852	109.884	115.323	72.498	114.033	75.196
18:11	MP34558-S1	110.907	115.341	105.433	107.802	114.782	108.509	112.066	114.211
18:14	MP34558-S2	110.167	113.792	104.841	105.367	113.533	108.975	110.029	113.554
18:18	JD49472-1A	109.647	113.499	104.565	108.745	114.531	108.962	113.043	112.481

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
18:21	MP34558-SD1	109.187	111.03	106.717	108.651	114.059	110.405	113.201	112.156
18:24	ZZZZZZ	107.069	111.852	105.717	106.279	112.243	110.271	109.654	113.602
18:28	MA52850-CCVA6	109.371	110.74	104.098	106.917	110.818	106.601	111.531	109.527
18:31	MA52850-CCB6	108.945	112.518	108.633	111.764	115.236	109.722	113.187	110.376
18:34	MP34510-S1	112.101	111.175	106.647	109.339	112.584	110.074	114.856	112.044
18:38	MP34510-S2	112.011	110.796	105.113	109.667	111.499	109.183	115.168	110.96
18:41	ZZZZZZ	107.609	109.08	106.751	110.622	112.191	107.81	111.528	110.004
18:44	ZZZZZZ	111.148	111.473	103.825	108.762	111.983	105.746	112.944	108.89
18:48	ZZZZZZ	106.782	108.187	95.806	98.668	104.199	100.882	107.474	106.555
18:51	MP34528-S2	109.953	110.439	101.01	102.867	108.172	104.585	111.674	108.504
18:54	ZZZZZZ	109.228	109.15	106.078	111.387	112.837	106.847	113.285	109.656
18:58	ZZZZZZ	109.439	110.523	105.537	107.289	111.78	106.54	112.518	109.529
19:01	MA52850-CCVA7	110.094	109.962	102.874	104.993	109.525	104.592	110.717	107.881
19:04	MA52850-CCB7	109.144	108.179	104.549	111.275	111.466	106.477	112.727	106.967
19:08	MP34536-MB1	108.378	108.579	105.77	110.114	111.416	106.011	111.694	108.435
19:11	MP34536-MB2	108.797	109.695	106.394	111.059	113.534	108.413	112.813	110.405
19:14	MP34536-B1	111.937	112.488	106.608	110.515	113.132	107.025	114.276	110.274
19:18	MP34536-B2	112.308	110.763	104.523	108.223	112.436	105.831	115.687	109.911
19:21	ZZZZZZ	1.353 !	0.32 !	0.168 !	0.975 !	0.012 !	0.205 !	1.071 !	0.17 !
19:24	MP34536-S1	101.129	102.578	94.081	95.612	98.886	99.674	102.642	105.55
19:27	JD49653-1	101.648	103.101	94.816	96.999	100.588	100.785	103.78	105.89
19:31	ZZZZZZ	0.273 !	0.559 !	0.018 !	0.033 !	0.295 !	0.043 !	0.065 !	0.015 !
19:34	ZZZZZZ	98.265	99.531	91.146	93.408	94.606	98.645	99.493	104.689
19:38	MA52850-CCVA8	106.424	109.172	102.086	104.486	109.278	104.814	107.369	108.236
19:41	MA52850-CCB8	107.311	109.866	104.483	110.047	114.323	107.673	111.692	108.912
19:44	MP34505A-MB1	107.345	114.008	110.078	111.246	116.675	112.722	109.822	116.599
19:48	MP34505A-B2	109.163	113.845	108.822	108.608	113.85	111.964	110.947	116.273
19:51	MP34505A-S3	104.37	109.584	100.936	101.188	106.642	106.983	104.437	114.434
19:55	MP34505A-S4	103.687	110.326	98.919	100.014	107.092	104.544	103.799	111.562
19:58	JD49525-4F	101.968	107.291	101.587	100.912	104.101	106.013	102.247	112.097
20:02	MP34505A-SD1	110.021	112.162	107.363	110.166	112.489	109.681	112.543	113.545
20:05	ZZZZZZ	94.927	99.078	92.353	89.947	93.798	98.532	93.546	105.738
20:09	ZZZZZZ	100.065	106.001	96.506	97.188	102.51	101.498	101.573	107.081

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
20:12	MA52850-CCVA9	112.253	112.295	105.513	109.539	112.61	107.625	113.625	110.842
20:15	MA52850-CCB9	111.228	113.566	108.632	113.877	116.975	111.179	115.328	111.406
20:19	ZZZZZZ	101.931	105.453	97.289	97.627	101.221	103.213	102.334	110.917
20:22	ZZZZZZ	105.156	108.415	97.978	99.821	103.725	104.081	104.683	109.039
20:26	ZZZZZZ	104.107	108.528	99.539	100.143	103.56	105.265	104.567	110.966
20:29	ZZZZZZ	102.845	104.22	96.332	95.58	99.99	102.133	101.754	110.006
20:33	ZZZZZZ	105.919	107.214	104.552	104.728	105.932	108.302	106.912	114.244
20:37	ZZZZZZ	102.499	105.541	99.897	99.483	102.708	104.873	103.772	111.643
20:40	MA52850-CCVA10	109.761	110.457	104.595	107.946	110.455	105.557	111.591	109.876
20:44	MA52850-CCB10	110.577	111.088	109.547	113.088	114.164	110.935	114.089	111.144
20:47	ZZZZZZ	103.514	106.828	95.039	97.556	102.63	101.693	105.163	107.306
20:51	MP34536-S2	103.384	104.895	96.819	98.008	101.424	102.381	105.741	108.914
20:54	ZZZZZZ	99.999	99.958	92.643	94.097	95.022	99.287	101.244	105.265
21:00	MA52850-CCVA11	107.815	110.856	106.103	108.058	111.23	108.434	110.294	111.949
21:03	MA52850-CCB11	109.745	109.751	110.171	113.462	113.347	112.092	113.534	113.055
21:07	MP34538A-MB1	107.252	111.322	111.416	112.066	115.274	112.602	110.544	115.321
21:11	MP34538A-B2	107.996	114.858	110.34	109.55	116.172	112.464	109.967	117.624
21:14	MP34538A-S3	102.863	109.735	98.998	99.831	107.158	104.015	103.007	111.808
21:18	MP34538A-S4	106.095	112.894	101.803	102.684	108.715	105.288	105.985	114.389
21:21	JD49679-2	108.87	111.753	103.486	105.452	109.015	106.009	107.151	113.614
21:25	MP34538A-SD1	113.699	114.18	108.033	113.919	114.162	110.514	115.925	112.059
21:28	MA52850-CCVA12	115.264	115.187	109.45	112.333	115.177	112.058	116.448	115.406
21:32	MA52850-CCB12	114.976	115.247	118.292	119.85	118.605	119.978	119.3	120.141
21:36	ZZZZZZ	113.924	109.937	107.951	109.498	107.561	110.673	114.957	113.237
21:39	ZZZZZZ	111.696	107.587	105.002	108.534	104.942	108.75	113.107	112.133
21:43	ZZZZZZ	109.063	107.099	98.317	101.797	101.749	102.817	108.112	105.757
21:47	ZZZZZZ	109.883	107.78	98.787	102.006	101.925	102.703	108.396	107.677
21:50	ZZZZZZ	105.584	106.179	107.216	109.706	109.618	107.571	109.156	107.94
21:54	ZZZZZZ	106.013	106.831	107.047	110.603	110.516	107.853	109.919	109.991
21:57	ZZZZZZ	106.131	106.861	108.337	110.608	110.96	110.118	110.337	111.046

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#9	Germanium (74-2)	60-125 %	60-125 %
Istd#10	Germanium (74-3)	60-125 %	60-125 %
Istd#11	Rhodium (103-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
Istd#16 Rhodium (103-2)			60-125 %	60-125 %					
Istd#13 Rhodium (103-3)			60-125 %	60-125 %					
Istd#14 Indium (115-1)			60-125 %	60-125 %					
Istd#15 Indium (115-2)			60-125 %	60-125 %					
Istd#16 Terbium (159-1)			60-125 %	60-125 %					

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
13:52	MA52850-STD1	100	100	100	100	100	100
13:56	MA52850-STD2	100	100	100	100	100	100
13:59	MA52850-STD3	100	100	100	100	100	100
14:03	MA52850-STD4	100.704	98.823	101.342	100.319	100.461	100.233
14:07	MA52850-STD5	103.601	100.557	98.841	104.619	100.365	104.755
14:10	MA52850-STD6	99.253	98.956	98.881	100.041	101.08	100.363
14:14	MA52850-STD7	101.265	99.541	98.932	100.482	101.498	99.779
14:18	MA52850-STD8	98.635	99.716	95.937	99.447	98.79	98.737
14:21	MA52850-STD9	99.796	99.886	99.353	100.151	99.308	100.371
14:25	MA52850-STD10	100.606	100.709	99.519	100.552	99.876	100.055
14:28	MA52850-STD11	100.204	99.417	99.379	100.951	97.63	97.715
14:32	MA52850-STD12	98.999	98.656	96.781	99.444	93.863	95.099
14:58	ZZZZZZ	99.333	97.901	97.12	99.678	97.837	98.753
15:02	ZZZZZZ	100.13	98.82	96.18	100.356	97.241	98.931
15:05	MA52850-ICVA1	99.737	99.425	97.259	100.339	94.881	97.251
15:08	MA52850-ICV1	98.934	97.184	95.838	98.539	96.896	98.22
15:12	MA52850-ICB1	98.755	98.305	95.023	98.828	95.367	97.497
15:16	ZZZZZZ	0.038 !	0.025 !	0.043 !	0.035 !	0.26 !	0.206 !
15:19	ZZZZZZ	98.468	97.77	95.791	99.049	97.115	98.904
15:23	ZZZZZZ	98.41	97.562	95.37	98.794	96.863	96.654
15:26	MA52850-CCVA1	99.042	98.011	96.327	98.887	94.122	96.412
15:29	MA52850-CCB1	97.342	96.06	94.744	98.491	96.162	97.494
15:33	ZZZZZZ	97.07	97.61	95.001	96.268	95.443	96.197
15:36	ZZZZZZ	0.042 !	0.025 !	0.064 !	0.042 !	0.309 !	0.245 !
15:49	MA52850-CRI1	95.882	93.123	93.219	96.482	93.908	95.795
15:53	MA52850-ICSA1	87.885	86.177	88.552	88.398	79.741	78.404
15:56	MA52850-ICSAB1	85.731	85.745	84.35	86.228	76.828	77.309
16:06	ZZZZZZ	90.74	90.236	87.979	91.437	88.032	90.212
16:10	ZZZZZZ	92.566	91.282	89.3	92.535	88.5	89.184
16:13	JD49400-1	93.983	93.126	91.168	94.066	92.281	93.583
16:17	MA52850-CCVA2	90.007	89.814	86.817	90.43	86.516	87.231
16:20	MA52850-CCB2	92.325	89.937	89.926	91.545	89.082	90.502
16:23	MP34508-S1	92.504	91.414	90.306	92.598	91.239	92.538

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
16:27	MP34508-S2	92.611	91.327	90.065	92.719	90.84	92.219
16:30	JD49555-1	92.442	90.525	89.027	91.969	91.506	91.405
16:34	MP34508-SD1	92.142	91.515	90.67	93.046	92.646	93.902
16:37	ZZZZZZ	89.841	90.334	89.607	89.647	90.096	89.657
16:41	ZZZZZZ	90.907	90.636	89.795	90.875	88.5	86.768
16:45	ZZZZZZ	93.163	92.885	91.188	93.736	89.832	89.19
16:48	ZZZZZZ	92.763	92.16	90.602	93.278	90.671	92.635
16:52	MA52850-CCVA3	93.152	92.991	91.258	94.37	89.726	90.675
16:55	MA52850-CCB3	92.417	91.455	90.354	92.429	90.405	90.645
16:59	MP34509-S1	93.915	91.798	91.793	93.929	92.042	92.682
17:02	MP34509-S2	92.546	91.884	90.155	93.233	91.604	91.528
17:06	JD49494-1	91.494	90.631	90.088	92.645	91.055	91.215
17:09	ZZZZZZ	90.602	90.842	89.694	91.238	89.192	89.944
17:13	ZZZZZZ	91.829	90.874	89.264	92.788	91.242	91.841
17:16	ZZZZZZ	90.592	89.466	87.104	90.376	84.326	85.42
17:20	ZZZZZZ	88.877	86.995	86.905	89.077	86.807	88.302
17:23	MA52850-CCVA4	89.802	87.794	87.369	90.415	86.42	86.924
17:27	MA52850-CCB4	88.925	88.25	86.456	88.61	87.721	88.186
17:30	ZZZZZZ	90.01	87.845	87.275	89.219	88.884	89.293
17:33	ZZZZZZ	86.985	86.84	84.383	86.867	85.305	86.63
17:37	ZZZZZZ	85.329	84.674	83.564	86.224	82.942	82.851
17:40	ZZZZZZ	87.135	85.27	84.07	87.03	85.492	86.396
17:43	ZZZZZZ	0.019 !	0.012 !	0.026 !	0.02 !	0.325 !	0.241 !
17:47	ZZZZZZ	0.012 !	0.01 !	0.013 !	0.01 !	0.179 !	0.155 !
17:51	MA52850-CCVA5	81.295	81.029	79.724	82.644	79.833	81.099
17:54	MA52850-CCB5	80.961	79.854	78.856	80.851	79.999	80.212
17:57	MP34558-MB1	78.64	79.556	79.977	79.527	81.926	79.28
18:01	MP34558-LB1	78.568	77.994	77.914	78.553	79.965	78.372
18:04	MP34558-B1	75.847	76.914	76.847	75.612	76.245	72.428
18:07	MP34558-LS1	116.585	116.383	75.896	115.75	75.452	113.246
18:11	MP34558-S1	115.007	117.458	114.292	114.704	112.372	111.886
18:14	MP34558-S2	113.606	117.096	114.454	113.738	113.11	110.433
18:18	JD49472-1A	115.179	119.23	114.064	115.208	114.462	114.895

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
18:21	MP34558-SD1	113.047	115.158	112.672	113.403	114.54	115.435
18:24	ZZZZZZ	112.026	115.856	115.056	113.895	114.595	110.835
18:28	MA52850-CCVA6	112.654	111.934	111.459	112.849	111.282	111.498
18:31	MA52850-CCB6	113.638	116.016	111.734	113.634	113.409	114.809
18:34	MP34510-S1	112.598	113.845	112.35	114.098	112.292	113.443
18:38	MP34510-S2	114.829	113.491	111.047	113.985	112.386	114.131
18:41	ZZZZZZ	112.857	114.255	110.188	113.134	113.737	114.745
18:44	ZZZZZZ	113.002	112.811	109.81	113.766	110.132	112.54
18:48	ZZZZZZ	109.388	112.435	107.717	110.229	104.523	103.926
18:51	MP34528-S2	111.536	112.728	110.472	111.83	108.085	107.71
18:54	ZZZZZZ	113.716	112.877	109.751	113.607	114.285	116.293
18:58	ZZZZZZ	112.515	112.701	110.17	112.865	110.847	110.83
19:01	MA52850-CCVA7	112.09	112.309	109.06	112.565	109.513	109.889
19:04	MA52850-CCB7	113.156	111.644	108.18	113.427	111.018	115.163
19:08	MP34536-MB1	113.467	112.588	108.631	113.026	112.052	115.862
19:11	MP34536-MB2	113.634	115.006	110.37	113.947	112.783	114.924
19:14	MP34536-B1	114.531	112.671	111.505	113.531	112.213	112.734
19:18	MP34536-B2	112.605	111.09	108.825	113.258	111.064	113.01
19:21	ZZZZZZ	0.989 !	0.008 !	0.175 !	0.984 !	0.375 !	1.16 !
19:24	MP34536-S1	107.78	108.168	106.542	108.834	103.541	101.831
19:27	JD49653-1	108.011	109.943	108.643	108.607	104.874	103.872
19:31	ZZZZZZ	0.035 !	0.3 !	0.015 !	0.035 !	0.122 !	0.123 !
19:34	ZZZZZZ	105.977	105.847	105.623	107.076	99.16	98.571
19:38	MA52850-CCVA8	111.172	112.183	108.738	111.913	109.198	109.268
19:41	MA52850-CCB8	111.34	114.706	109.337	112.578	113.849	113.247
19:44	MP34505A-MB1	115.615	116.996	116.283	114.913	119.022	115.443
19:48	MP34505A-B2	115.632	115.825	115.939	115.172	115.156	112.86
19:51	MP34505A-S3	110.882	114.501	116.141	111.416	109.297	104.225
19:55	MP34505A-S4	110.363	114.656	113.707	111.334	107.29	104.113
19:58	JD49525-4F	109.633	112.468	112.601	110.115	108.668	105.394
20:02	MP34505A-SD1	114.671	117.477	114.151	114.872	115.436	116.11
20:05	ZZZZZZ	102.077	104.733	107.296	101.973	95.684	90.382
20:09	ZZZZZZ	107.271	111	109.505	109.074	102.136	101.771

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
20:12	MA52850-CCVA9	115.523	115.173	111.759	116.511	111.518	114.917
20:15	MA52850-CCB9	116.094	117.317	112.552	116.792	114.531	117.284
20:19	ZZZZZZ	109.076	111.63	112.834	109.838	105.012	101.014
20:22	ZZZZZZ	110.163	112.26	110.625	111.386	102.923	100.694
20:26	ZZZZZZ	110.008	112.04	111.288	112.025	106.581	103.042
20:29	ZZZZZZ	108.4	109.71	110.909	110.132	101.96	98.706
20:33	ZZZZZZ	114.71	114.537	114.947	115.036	109.599	108.616
20:37	ZZZZZZ	110.96	112.595	113.247	111.832	106.105	104.523
20:40	MA52850-CCVA10	112.81	114.202	110.97	114.473	110.433	111.188
20:44	MA52850-CCB10	114.238	114.88	111.795	113.999	114.043	115.999
20:47	ZZZZZZ	109.394	111.12	108.663	110.494	104.026	104.168
20:51	MP34536-S2	109.801	109.708	109.265	110.435	105.083	104.275
20:54	ZZZZZZ	107.944	106.499	106.693	107.395	99.93	99.912
21:00	MA52850-CCVA11	113.59	115.288	112.963	113.54	113.34	112.403
21:03	MA52850-CCB11	116.264	113.61	113.271	115.401	116.703	116.079
21:07	MP34538A-MB1	115.029	118.629	116.269	114.803	119.206	117.474
21:11	MP34538A-B2	115.451	120.7	118.064	114.892	116.795	112.102
21:14	MP34538A-S3	110.786	114.406	112.822	110.929	107.619	104.852
21:18	MP34538A-S4	113.735	116.184	115.37	113.651	109.136	106.836
21:21	JD49679-2	115.259	117.502	114.804	115.199	108.791	108.163
21:25	MP34538A-SD1	116.943	118.064	112.903	118.28	113.658	115.842
21:28	MA52850-CCVA12	116.89	114.949	115.236	117.88	115.266	115.529
21:32	MA52850-CCB12	120.526	118.36	120.75	119.776	122.933	119.649
21:36	ZZZZZZ	117.178	113.72	113.407	116.984	112.277	113.996
21:39	ZZZZZZ	115.394	112.691	112.071	116.527	110.455	113.737
21:43	ZZZZZZ	112.129	111.214	107.326	112.795	88.441	88.306
21:47	ZZZZZZ	113.169	111.126	108.172	113.802	88.225	88.442
21:50	ZZZZZZ	111.702	112.154	108.789	111.851	109.896	108.076
21:54	ZZZZZZ	113.514	111.76	109.466	113.093	112.672	115.613
21:57	ZZZZZZ	113.573	112.09	112.079	113.142	114.928	117.419

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#17	Terbium (159-2)	60-125 %	60-125 %
Istd#18	Terbium (159-3)	60-125 %	60-125 %
Istd#19	Holmium (165-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
Analyst: NV Run ID: MA52850
Parameters: Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19	Istd#20	Istd#21	Istd#22
Istd#22	Holmium (165-2)		60-125 %	60-125 %			
Istd#21	Bismuth (209-1)		60-125 %	60-125 %			
Istd#22	Bismuth (209-2)		60-125 %	60-125 %			

10.3.2

10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
QC Limits: result < RL Run ID: MA52850 Units: ug/l

Time:			15:12		15:29		16:20	
Sample ID:			ICB1		CCB1		CCB2	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	25	.42	anr					
Antimony	2.0	.085						
Arsenic	0.50	.025	anr					
Barium	1.0	.009	anr					
Beryllium	0.50	.005						
Boron	25	.85						
Cadmium	0.50	.01	anr					
Calcium	250	3.6	anr					
Chromium	1.0	.018	anr					
Cobalt	0.50	.003	anr					
Copper	2.0	.024	anr					
Iron	25	.24	anr					
Lead	0.50	.008	anr					
Magnesium	250	.19	anr					
Manganese	1.0	.012	anr					
Molybdenum	1.0	.017						
Nickel	1.0	.017	anr					
Potassium	250	.78						
Selenium	0.50	.044	anr					
Silver	0.50	.004	anr					
Sodium	250	1.5	anr					
Strontium	5.0	.014						
Thallium	0.50	.002	anr					
Tin	5.0	.041						
Titanium	1.0	.11						
Vanadium	1.0	.013						
Zinc	5.0	.078	-0.0365	<5.0	-0.0481	<5.0	-0.0336	<5.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52850 Units: ug/l

Time:		15:05			15:08			15:26	
Sample ID:	ICVA	ICVA1		ICV	ICV1		CCVA	CCVA1	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	60	58.5	97.5				50	46.8	93.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 90 to 110 % Recovery Run ID: MA52850 Units: ug/l

Time:		16:17	
Sample ID:	CCVA	CCVA2	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium			
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	50	52.4	104.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 80 to 120 % Recovery Run ID: MA52850 Units: ug/l

Time:			15:49	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Aluminum	25	25	anr	
Antimony	2.0	0.25		
Arsenic	0.50	0.50	anr	
Barium	1.0	0.50	anr	
Beryllium	0.50	0.25		
Boron	25	2.5		
Cadmium	0.50	0.25	anr	
Calcium	250	125	anr	
Chromium	1.0	2.0	anr	
Cobalt	0.50	0.25	anr	
Copper	2.0	2.0	anr	
Iron	25	25	anr	
Lead	0.50	0.25	anr	
Magnesium	250	125	anr	
Manganese	1.0	0.25	anr	
Molybdenum	1.0	0.50		
Nickel	1.0	2.0	anr	
Potassium	250	125		
Selenium	0.50	0.50	anr	
Silver	0.50	1.0	anr	
Sodium	250	125	anr	
Strontium	5.0	0.50		
Thallium	0.50	0.25	anr	
Tin	5.0	0.50		
Titanium	1.0	0.50		
Vanadium	1.0	2.0		
Zinc	5.0	2.0	4.75	95.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: XA081122M1.CSV Date Analyzed: 08/11/22 Methods: EPA 200.8, SW846 6020B
QC Limits: 80 to 120 % Recovery Run ID: MA52850 Units: ug/l

Time:			15:53		15:56	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	100000	100000	82900HH	82.9	90900HH	90.9
Antimony			0.0788		0.0825	
Arsenic		20	0.0589		19.0	95.0
Barium			0.615		0.621	
Beryllium			-0.00312		-0.00636	
Boron		50	2.15		49.4	98.8
Cadmium		20	-0.172		21.5	107.5
Calcium	100000	100000	85700HH	85.7	92600HH	92.6
Chromium		20	0.326		19.6	98.0
Cobalt		20	0.0359		18.5	92.5
Copper		20	-0.0474		17.3	86.5
Iron	100000	100000	81300HH	81.3	90000HH	90.0
Lead			0.161		0.211	
Magnesium	100000	100000	81700HH	81.7	90000HH	90.0
Manganese		20	0.409		19.4	97.0
Molybdenum	2000	2000	2070HH	103.5	2100HH	105.0
Nickel		20	0.646		18.7	93.5
Potassium	100000	100000	83100HH	83.1	91400HH	91.4
Selenium		20	0.174		21.6	108.0
Silver		20	0.0247		20.2	101.0
Sodium	100000	100000	81600HH	81.6	90100HH	90.1
Strontium	2000	2000	2070HH	103.5	2090HH	104.5
Thallium			0.00747		0.00882	
Tin	2000	2000	2270HH	113.5	2220HH	111.0
Titanium	2000	2000	1670HH	83.5	1870HH	93.5
Vanadium		20	-0.00521		20.1	100.5
Zinc		20	1.55		22.7	113.5

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
Analyst: LM Run ID: MA52905
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:23	MA52905-STD1	1		b=9.8248e-005,c=5.3017e-002,rho=0.9992500
11:26	MA52905-STD2	1		STDB
11:29	MA52905-STD3	1		STDC
11:32	MA52905-STD4	1		STDD
11:36	MA52905-STD5	1		STDE
11:40	MA52905-STD6	1		STDF
11:46	MA52905-STD7	1		STDD
11:50	ZZZZZZ	1		
11:52	MA52905-ICV1	1		
11:54	MA52905-ICB1	1		
11:55	MA52905-CCV1	1		
11:57	MA52905-CCB1	1		
11:59	MA52905-CRI1	1		
12:05	MP34779-MB1	1		
12:06	MP34779-B1	1		
12:10	MP34779-S1	1		
12:17	MP34779-S2	1		
12:19	MP34779-LC1	50		
12:21	ZZZZZZ	50		
12:22	JD49740-1	1		(sample used for QC only; not part of login JD49400)
12:27	ZZZZZZ	1		
12:28	MA52905-CCV2	1		
12:30	MA52905-CCB2	1		
12:34	MP34779-LC2	50		
12:38	MA52905-CCV3	1		
12:42	MA52905-CCB3	1		
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
Analyst: LM Run ID: MA52905
Parameters: Hg

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:00	ZZZZZZ	1		
	13:03	MA52905-CCV4	1		
	13:07	MA52905-CCB4	1		
	13:13	ZZZZZZ	1		
	13:14	ZZZZZZ	1		
	13:17	ZZZZZZ	1		
	13:23	ZZZZZZ	1		
	13:26	ZZZZZZ	1		
	13:30	JD49400-1	1		
---------->	Last reportable sample/prep for job JD49400				
	13:32	MA52905-CCV5	1		
	13:36	MA52905-CCB5	1		
---------->	Last reportable CCB for job JD49400				
	13:41	ZZZZZZ	1		
	13:42	ZZZZZZ	1		
	13:47	ZZZZZZ	1		
	13:53	ZZZZZZ	1		
	14:00	ZZZZZZ	1		
	14:03	ZZZZZZ	1		
	14:09	MA52905-CCV6	1		
	14:15	MA52905-CCB6	1		
	14:18	ZZZZZZ	1		
	14:20	MP34780-MB1	1		
	14:22	MP34780-B1	1		
	14:23	MP34780-S1	1		
	14:25	MP34780-S2	1		
	14:27	JD50098-1	1		(sample used for QC only; not part of login JD49400)
	14:28	ZZZZZZ	1		
	14:30	MA52905-CCV7	1		
	14:32	MA52905-CCB7	1		
	14:33	ZZZZZZ	1		
	14:35	ZZZZZZ	1		
	14:37	ZZZZZZ	1		
	14:38	ZZZZZZ	1		
	14:40	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
Analyst: LM Run ID: MA52905
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:42	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	MA52905-CCV8	1		
14:47	MA52905-CCB8	1		
14:49	ZZZZZZ	1		
14:50	ZZZZZZ	1		
14:52	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:55	ZZZZZZ	1		
14:57	ZZZZZZ	1		
14:59	ZZZZZZ	1		
15:00	MA52905-CCV9	1		
15:02	MA52905-CCB9	1		
15:04	MP34781-MB1	1		
15:06	MP34781-B1	1		
15:07	MP34781-S1	1		
15:09	MP34781-S2	1		
15:11	DA48177-1	1		(sample used for QC only; not part of login JD49400)
15:12	MA52905-CCV10	1		
15:14	MA52905-CCB10	1		
15:33	ZZZZZZ	5		
15:34	ZZZZZZ	2		
15:36	ZZZZZZ	5		
15:38	ZZZZZZ	5		
15:39	ZZZZZZ	50		
15:41	ZZZZZZ	2		
15:43	MA52905-CCV11	1		
15:47	MA52905-CCB11	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
Analyst: LM Run ID: MA52905
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:50	ZZZZZZ	1		
11:52	MA52905-ICV1	1	X	
11:54	MA52905-ICB1	1	X	
11:55	MA52905-CCV1	1	X	
11:57	MA52905-CCB1	1	X	
11:59	MA52905-CRI1	1	X	
12:05	MP34779-MB1	1	X	
12:06	MP34779-B1	1	X	
12:10	MP34779-S1	1	X	
12:17	MP34779-S2	1	X	
12:19	MP34779-LC1	50	X	
12:21	ZZZZZZ	50		
12:22	JD49740-1	1	X	(a)
12:27	ZZZZZZ	1		
12:28	MA52905-CCV2	1	X	
12:30	MA52905-CCB2	1	X	
12:34	MP34779-LC2	50	X	
12:38	MA52905-CCV3	1	X	
12:42	MA52905-CCB3	1	X	
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:03	MA52905-CCV4	1	X	
13:07	MA52905-CCB4	1	X	
13:13	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:23	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
Analyst: LM Run ID: MA52905
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
13:26	ZZZZZZ	1		
13:30	JD49400-1	1	X	
13:32	MA52905-CCV5	1	X	
13:36	MA52905-CCB5	1	X	
13:41	ZZZZZZ	1		
13:42	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:53	ZZZZZZ	1		
14:00	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:09	MA52905-CCV6	1	X	
14:15	MA52905-CCB6	1	X	
14:18	ZZZZZZ	1		
14:20	MP34780-MB1	1	X	
14:22	MP34780-B1	1	X	
14:23	MP34780-S1	1	X	
14:25	MP34780-S2	1	X	
14:27	JD50098-1	1	X	(a)
14:28	ZZZZZZ	1		
14:30	MA52905-CCV7	1	X	
14:32	MA52905-CCB7	1	X	
14:33	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:37	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	MA52905-CCV8	1	X	
14:47	MA52905-CCB8	1	X	
14:49	ZZZZZZ	1		
14:50	ZZZZZZ	1		
14:52	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
Analyst: LM Run ID: MA52905
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
14:54	ZZZZZZ	1	
14:55	ZZZZZZ	1	
14:57	ZZZZZZ	1	
14:59	ZZZZZZ	1	
15:00	MA52905-CCV9	1	X
15:02	MA52905-CCB9	1	X
15:04	MP34781-MB1	1	X
15:06	MP34781-B1	1	X
15:07	MP34781-S1	1	X
15:09	MP34781-S2	1	X
15:11	DA48177-1	1	X (a)
15:12	MA52905-CCV10	1	X
15:14	MA52905-CCB10	1	X
15:33	ZZZZZZ	5	
15:34	ZZZZZZ	2	
15:36	ZZZZZZ	5	
15:38	ZZZZZZ	5	
15:39	ZZZZZZ	50	
15:41	ZZZZZZ	2	
15:43	MA52905-CCV11	1	X
15:47	MA52905-CCB11	1	X

(a) Sample used for QC only; not part of login JD49400.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
QC Limits: result < RL Run ID: MA52905 Units: ug/l

Time:			11:54		11:57		12:30		12:42	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.024	-0.0808	<0.20	-0.0889	<0.20	-0.0483	<0.20	0.0117	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
QC Limits: result < RL Run ID: MA52905 Units: ug/l

Time:			13:07		13:36	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Mercury	0.20	.024	-0.0307	<0.20	-0.0656	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA52905 Units: ug/l

Time:		11:52			11:55			12:28	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.14	104.7	2.5	2.56	102.4	2.5	2.41	96.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA52905 Units: ug/l

Time:		12:38			13:03			13:32	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.53	101.2	2.5	2.53	101.2	2.5	2.33	93.2

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

File ID: H8082522S1.CSV Date Analyzed: 08/25/22 Methods: SW846 7470A, SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA52905 Units: ug/l

Time:			11:59	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.199	99.5

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34484
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 08/08/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.21	7	-0.40	<25
Antimony	1.0	.043	.44	0.015	<1.0
Arsenic	0.25	.013	.19	0.0026	<0.25
Barium	0.50	.0045	.34	0.036	<0.50
Beryllium	0.25	.0025	.036	-0.00074	<0.25
Boron	13	.43	3.6		
Cadmium	0.25	.005	.049	-0.0018	<0.25
Calcium	130	1.8	54	6.3	<130
Chromium	1.0	.009	.72	0.067	<1.0
Cobalt	0.25	.0015	.047	-0.00036	<0.25
Copper	1.0	.012	.69	0.10	<1.0
Iron	25	.12	8.2	-3.2	<25
Lead	0.25	.004	.11	0.013	<0.25
Magnesium	130	.096	33	2.5	<130
Manganese	0.50	.006	.16	0.031	<0.50
Molybdenum	0.50	.0085	.35		
Nickel	1.0	.0085	.64	-0.0029	<1.0
Potassium	130	.39	32	3.8	<130
Selenium	0.25	.022	.089	-0.035	<0.25
Silver	0.25	.002	.062	0.0010	<0.25
Sodium	130	.76	38	8.5	<130
Strontium	2.5	.007	.49		
Thallium	0.25	.001	.049	-0.0017	<0.25
Tin	25	.021	8.6		
Titanium	1.0	.056	.41		
Vanadium	1.0	.0065	.45	0.013	<1.0
Zinc	5.0	.039	2.8	1.5	<5.0

Associated samples MP34484: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34484
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 08/08/22

Metal	JD49193-5 Original	MS	Spikelot MP6020SO3	% Rec	QC Limits
Aluminum	8890	11000	1050	200.2(a)	75-125
Antimony	0.57	1.3	21.1	3.5N (b)	75-125
Arsenic	5.6	21.8	21.1	76.9	75-125
Barium	221	244	21.1	109.1	75-125
Beryllium	0.52	18.0	21.1	82.9	75-125
Boron					
Cadmium	0.47	17.9	21.1	82.7	75-125
Calcium	4450	5700	1050	118.6	75-125
Chromium	14.4	30.6	21.1	76.9	75-125
Cobalt	4.5	21.0	21.1	78.3	75-125
Copper	45.7	67.3	21.1	102.5	75-125
Iron	12900	11900	1050	-94.9(a)	75-125
Lead	106	127	21.1	99.6	75-125
Magnesium	4020	4990	1050	92.1	75-125
Manganese	295	314	21.1	90.2	75-125
Molybdenum					
Nickel	9.6	25.6	21.1	75.9	75-125
Potassium	1730	2920	1050	112.9	75-125
Selenium	0.46	44.7	52.7	84.0	75-125
Silver	0.36	2.0	10.5	15.6N(b)	75-125
Sodium	109	970	1050	82.0	75-125
Strontium					
Thallium	0.19	17.9	21.1	84.0	75-125
Tin					
Titanium					
Vanadium	20.3	34.6	21.1	67.9N(b)	75-125
Zinc	244	268	21.1	113.9	75-125

Associated samples MP34484: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34484 Methods: SW846 6020B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/08/22

Metal	JD49193-5 Original	MSD	Spikelot MP6020SO3%	Rec	MSD RPD	QC Limit
Aluminum	8890	10800	1050	181.3(a)	0.9	20
Antimony	0.57	1.2	21.1	3.0N (b)	8.0	20
Arsenic	5.6	22.0	21.1	77.8	0.9	20
Barium	221	241	21.1	94.9	1.2	20
Beryllium	0.52	17.7	21.1	81.5	1.7	20
Boron						
Cadmium	0.47	17.4	21.1	80.3	2.8	20
Calcium	4450	5630	1050	112.0	1.2	20
Chromium	14.4	29.7	21.1	72.6N(b)	3.0	20
Cobalt	4.5	20.8	21.1	77.3	1.0	20
Copper	45.7	66.4	21.1	98.2	1.3	20
Iron	12900	11700	1050	-113.9(a	1.7	20
Lead	106	126	21.1	94.9	0.8	20
Magnesium	4020	4890	1050	82.6	2.0	20
Manganese	295	311	21.1	75.9	1.0	20
Molybdenum						
Nickel	9.6	25.7	21.1	76.4	0.4	20
Potassium	1730	2810	1050	102.5	3.8	20
Selenium	0.46	43.2	52.7	81.1	3.4	20
Silver	0.36	1.1	10.5	7.0N (b)	58.1 (c)	20
Sodium	109	970	1050	82.0	0.0	20
Strontium						
Thallium	0.19	17.5	21.1	82.1	2.3	20
Tin						
Titanium						
Vanadium	20.3	34.3	21.1	66.4N(b)	0.9	20
Zinc	244	266	21.1	104.4	0.7	20

Associated samples MP34484: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(c) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34484
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 08/08/22

Metal	BSP Result	Spikelot MP6020SO3	% Rec	QC Limits
Aluminum	841	1000	84.1	80-120
Antimony	17.9	20	89.5	80-120
Arsenic	17.2	20	86.0	80-120
Barium	17.0	20	85.0	80-120
Beryllium	16.7	20	83.5	80-120
Boron				
Cadmium	17.2	20	86.0	80-120
Calcium	855	1000	85.5	80-120
Chromium	17.4	20	87.0	80-120
Cobalt	17.3	20	86.5	80-120
Copper	17.1	20	85.5	80-120
Iron	860	1000	86.0	80-120
Lead	17.2	20	86.0	80-120
Magnesium	821	1000	82.1	80-120
Manganese	17.1	20	85.5	80-120
Molybdenum				
Nickel	17.3	20	86.5	80-120
Potassium	835	1000	83.5	80-120
Selenium	43.4	50	86.8	80-120
Silver	9.1	10	91.0	80-120
Sodium	841	1000	84.1	80-120
Strontium				
Thallium	17.2	20	86.0	80-120
Tin				
Titanium				
Vanadium	17.2	20	86.0	80-120
Zinc	22.1	20	110.5	80-120

Associated samples MP34484: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34484
Matrix Type: SOLID

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/08/22

Metal	JD49193-5 Original	SDL 5:25	%DIF	QC Limits
Aluminum	85200	79200	7.0	0-10
Antimony	5.48	4.99	8.9	0-10
Arsenic	53.7	48.5	9.7	0-10
Barium	2120	1910	9.7	0-10
Beryllium	5.02	4.09	18.5*(a)	0-10
Boron				
Cadmium	4.50	4.57	1.5	0-10
Calcium	42600	41200	3.2	0-10
Chromium	138	135	2.3	0-10
Cobalt	42.8	40.5	5.4	0-10
Copper	438	422	3.6	0-10
Iron	123000	118000	4.1	0-10
Lead	1020	919	10.0	0-10
Magnesium	38600	35800	7.2	0-10
Manganese	2830	2560	9.3	0-10
Molybdenum				
Nickel	91.7	86.4	5.8	0-10
Potassium	16600	15300	7.9	0-10
Selenium	4.38	2.80	36.1 (b)	0-10
Silver	3.40	2.82	17.0*(a)	0-10
Sodium	1040	910	12.6 (b)	0-10
Strontium				
Thallium	1.82	1.13	3.9	0-10
Tin				
Titanium				
Vanadium	195	183	11.2*(a)	0-10
Zinc	2330	2150	7.8	0-10

Associated samples MP34484: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34484
Matrix Type: SOLID

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/08/22

Metal	Sample ml	Final ml	JD49193-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.3	10	5.47506	5.091806	194.8188	0.1	20	200	94.9	75-125
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver	9.3	10	3.403234	3.165008	118.5623	0.1	10	100	115.4	75-125
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium	9.3	10	206.5123	192.0565	359.8693	0.1	20	200	83.9	75-125
Zinc										

Associated samples MP34484: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34779 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/24/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.004	.015	-0.016	<0.033

Associated samples MP34779: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34779 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/24/22

Metal	JD49740-1 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.0	0.29	0.3	96.6	80-120

Associated samples MP34779: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34779 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/24/22

Metal	JD49740-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.32	0.313	102.3	9.8	20

Associated samples MP34779: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34779
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date:		08/24/22					08/24/22	
Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits	LCS Result	Spikelot HGLC540112	% Rec	QC Limits
Mercury	0.32	0.333	96.0	80-120	8.5	11	77.3	64-118

Associated samples MP34779: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

QC Batch ID: MP34779
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/24/22

Metal	LCS Result	Spikelot HGLC540112	% Rec	QC Limits
Mercury	8.3	11	75.5	64-118

Associated samples MP34779: JD49400-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.6.3

10

Instrument Detection Limits

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Instrument ID: AGICPMS1 **Effective Date:** 02/24/20

Analyte	IDL ug/l
Aluminum	.188
Aluminum	.417
Antimony	.085
Arsenic	.502
Arsenic	.025
Barium	.009
Beryllium	.005
Boron	.851
Cadmium	.005
Cadmium	.01
Calcium	3.618
Chromium	.023
Chromium	.018
Cobalt	.002
Cobalt	.003
Copper	.054
Copper	.024
Iron	1.317
Iron	.236
Lead	.008
Magnesium	.22
Magnesium	.192
Manganese	.012
Manganese	.012
Molybdenum	.017
Nickel	.015
Nickel	.017
Potassium	2.7
Potassium	.78
Selenium	.442
Selenium	.044
Silver	.004
Sodium	.574
Sodium	1.524
Strontium	.014
Thallium	.002
Tin	.052
Tin	.041
Titanium	.022
Titanium	.111
Vanadium	.16
Vanadium	.013
Zinc	.075
Zinc	.078

Instrument Detection Limits

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Instrument ID: AGICPMS1 **Effective Date:** 02/24/20

Analyte	IDL ug/l

The above applies to the following instrument runs:
MA52838,MA52843,MA52850

Instrument Detection Limits

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Instrument ID: LEEMANHG8 **Effective Date:** 01/12/21

Analyte	IDL ug/l
Mercury	.0237

The above applies to the following instrument runs:
MA52905

Instrument Linear Ranges

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Instrument ID: AGICPMS1 **Effective Date:** 09/10/18

Analyte	Linear Range ug/l
Aluminum	10000
Aluminum	10000
Antimony	100
Arsenic	100
Arsenic	100
Barium	100
Beryllium	100
Boron	200
Cadmium	100
Cadmium	100
Calcium	10000
Chromium	100
Chromium	100
Cobalt	100
Cobalt	100
Copper	100
Copper	100
Iron	10000
Iron	10000
Lithium	100
Lead	100
Magnesium	10000
Magnesium	10000
Manganese	100
Manganese	100
Molybdenum	100
Nickel	100
Nickel	100
Potassium	10000
Potassium	10000
Selenium	400
Selenium	400
Silver	100
Sodium	10000
Sodium	10000
Strontium	100
Thallium	100
Tin	100
Tin	100
Titanium	100
Titanium	100
Tungsten	100
Uranium	100
Vanadium	100
Vanadium	100
Zinc	100

Instrument Linear Ranges

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Instrument ID: AGICPMS1 **Effective Date:** 09/10/18

Analyte	Linear Range ug/l
Zinc	100

The above applies to the following instrument runs:
MA52838,MA52843,MA52850

Instrument Linear Ranges

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Instrument ID: LEEMANHG8 **Effective Date:** 03/10/17

Analyte	Linear Range ug/l
Mercury	5

The above applies to the following instrument runs:
MA52905

Metals Analysis

Raw Data

Quantitation Report

File Name	001CALB.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:19
Sample Name	STDA 4
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.004	ug/l	253.35	213.34	3.930E-05	Pulse	0.25	3
B			1	1.363	ug/l	31.50	21,104.66	3.873E-03	Pulse	0.15	3
Ca			1	-7.961	ug/l	-11.41	11,250.90	2.421E-03	Pulse	0.10	3
Sr			1	0.002	ug/l	343.12	530.03	9.189E-05	Pulse	0.10	3
Mo			1	0.066	ug/l	11.07	470.03	8.147E-05	Pulse	0.10	3
Ag			1	0.023	ug/l	13.33	253.34	4.217E-05	Pulse	0.10	3
Sn			1	0.469	ug/l	7.51	6,381.55	1.062E-03	Pulse	0.10	3
Sb			1	0.007	ug/l	132.37	766.72	8.926E-05	Pulse	0.10	3
Ba			1	0.020	ug/l	45.42	120.01	1.399E-05	Pulse	0.10	3
Tl			1	0.021	ug/l	12.43	930.07	1.862E-04	Pulse	0.10	3
Pb			1	0.008	ug/l	484.51	3,800.65	7.610E-04	Pulse	0.10	3
Pb			1	0.036	ug/l	29.80	3,277.16	6.561E-04	Pulse	0.10	3
Pb			1	0.023	ug/l	21.67	15,180.31	3.039E-03	Pulse	0.10	3
Na			2	-0.622	ug/l	-27.66	2,869.17	1.790E-02	Pulse	0.30	3
Mg			2	0.046	ug/l	343.84	592.24	3.693E-03	Pulse	0.30	3
Al			2	-1.918	ug/l	-4.53	145.56	9.083E-04	Pulse	0.30	3
K			2	1.132	ug/l	104.92	9,267.13	5.783E-02	Pulse	0.30	3
Ca			2	0.691	ug/l	71.50	48.89	3.047E-04	Pulse	0.30	3
Ti			2	0.212	ug/l	18.68	24.45	1.524E-04	Pulse	0.30	3
V			2	-0.009	ug/l	-81.39	145.56	9.094E-04	Pulse	0.30	3
Cr			2	0.097	ug/l	31.65	512.58	3.193E-03	Pulse	0.30	3
Mn			2	-0.021	ug/l	-24.07	130.00	8.107E-04	Pulse	0.30	3
Fe			2	0.134	ug/l	341.25	38,681.99	2.414E-01	Pulse	0.30	3
Co			2	-0.001	ug/l	-54.48	32.12	2.004E-04	Pulse	0.30	3
Ni			2	-0.049	ug/l	-92.25	1,431.19	8.934E-03	Pulse	0.30	3
Cu			2	0.055	ug/l	66.75	1,755.67	1.096E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-1.299	ug/l	-15.76	9,297.18	5.802E-02	Pulse	0.30	3
As			2	0.002	ug/l	729.18	13.00	8.076E-05	Pulse	1.00	3
Cd			2	-0.004	ug/l	-84.08	7.75	7.225E-06	Pulse	0.30	3
Sn			2	0.782	ug/l	7.35	1,586.77	1.483E-03	Pulse	0.30	3
Se			3	0.030	ug/l	115.33	9.20	6.636E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		5,447,520.10	1.48	100.0	Analog	0.10	3
1	Sc		4,650,408.89	1.40	100.0	Analog	0.10	3
1	Ge		930,923.09	0.49	100.0	Pulse	0.10	3
1	Ge		1,236,582.87	0.50	100.0	Analog	0.10	3
1	Rh		5,770,405.12	0.28	100.0	Analog	0.10	3
1	In		6,005,755.38	0.27	100.0	Analog	0.10	3
1	Tb		8,596,865.29	0.92	100.0	Analog	0.10	3
1	Ho		8,526,284.66	0.66	100.0	Analog	0.10	3
1	Bi		4,995,037.43	0.39	100.0	Analog	0.10	3
2	Sc		160,262.75	1.35	100.0	Pulse	0.30	3
2	Ge		104,076.04	1.42	100.0	Pulse	0.30	3
2	Ge		157,237.47	1.08	100.0	Pulse	0.30	3
2	Rh		2,646,112.47	2.30	100.0	Analog	0.30	3
2	In		1,070,392.12	0.70	100.0	Pulse	0.30	3
2	Tb		3,977,420.12	1.37	100.0	Analog	0.30	3
2	Ho		4,062,228.73	1.02	100.0	Analog	0.30	3
2	Bi		2,675,259.82	1.01	100.0	Analog	0.30	3
3	Sc		137,576.60	0.82	100.0	Pulse	0.30	3
3	Ge		91,997.87	0.61	100.0	Pulse	0.30	3
3	Ge		138,587.23	0.53	100.0	Pulse	0.30	3
3	Rh		1,619,325.00	1.37	100.0	Analog	0.30	3
3	Tb		3,011,609.25	0.95	100.0	Analog	0.30	3

Quantitation Report

File Name	002CALB.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:23
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	2.854	ug/l	20.28	37.33	3.845E-03	Pulse	0.25	3
B			1	434.865	ug/l	12.46	2,849.21	2.954E-01	Pulse	0.15	3
Ca			1	11677.943	ug/l	26.30	5,014.35	1.890E+00	Pulse	0.10	3
Sr			1	0.078	ug/l	206.90	3.33	5.064E-04	Pulse	0.10	3
Mo			1	2.718	ug/l	106.44	16.67	2.878E-03	Pulse	0.10	3
Ag			1	0.964	ug/l	110.39	10.00	2.343E-03	Pulse	0.10	3
Sn			1	15.489	ug/l	20.92	110.00	2.526E-02	Pulse	0.10	3
Sb			1	2.323	ug/l	60.47	20.00	3.322E-03	Pulse	0.10	3
Ba			1	3.299	ug/l	114.84	10.00	1.866E-03	Pulse	0.10	3
Tl			1	1.594	ug/l	26.65	76.67	9.832E-03	Pulse	0.10	3
Pb			1	1.835	ug/l	48.00	36.67	4.604E-03	Pulse	0.10	3
Pb			1	1.035	ug/l	55.47	20.00	2.492E-03	Pulse	0.10	3
Pb			1	1.446	ug/l	24.90	120.00	1.504E-02	Pulse	0.10	3
Na			2	4878.165	ug/l	61.60	2,234.63	2.116E+01	Pulse	0.30	3
Mg			2	1396.428	ug/l	56.15	322.23	2.986E+00	Pulse	0.30	3
Al			2	96.369	ug/l	71.53	8.89	7.013E-02	Pulse	0.30	3
K			2	16853.516	ug/l	66.01	2,581.34	2.470E+01	Pulse	0.30	3
Ca			2	957.339	ug/l	58.60	10.00	7.622E-02	Pulse	0.30	3
Ti			2	14.623	ug/l	173.88	1.11	8.325E-03	Pulse	0.30	3
V			2	2.066	ug/l	143.50	3.33	4.057E-02	Pulse	0.30	3
Cr			2	48.009	ug/l	72.91	116.64	1.157E+00	Pulse	0.30	3
Mn			2	27.797	ug/l	79.75	35.55	3.577E-01	Pulse	0.30	3
Fe			2	577.077	ug/l	56.16	1,304.51	1.195E+01	Pulse	0.30	3
Co			2	1.417	ug/l	74.74	6.66	5.631E-02	Pulse	0.30	3
Ni			2	70.712	ug/l	44.46	85.56	7.507E-01	Pulse	0.30	3
Cu			2	17.256	ug/l	48.81	57.78	5.084E-01	Pulse	0.30	3
Zn			2	5.029	ug/l	336.80	11.11	8.678E-02	Pulse	0.30	3
As			2	5.379	ug/l	24.01	1.67	1.354E-02	Pulse	1.00	3
Cd			2	2.020	ug/l	89.37	2.22	2.137E-03	Pulse	0.30	3
Sn			2	12.774	ug/l	24.31	28.89	2.913E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	46.749	ug/l	47.51	1.67	1.998E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		9,677.20	4.07	100.0	Pulse	0.10	3
1	Sc		2,820.45	35.12	100.0	Pulse	0.10	3
1	Ge		1,063.42	9.13	100.0	Pulse	0.10	3
1	Ge		1,053.41	23.84	100.0	Pulse	0.10	3
1	Rh		4,677.84	35.48	100.0	Pulse	0.10	3
1	In		4,278.30	21.04	100.0	Pulse	0.10	3
1	Tb		5,435.02	27.75	100.0	Pulse	0.10	3
1	Ho		5,501.73	38.16	100.0	Pulse	0.10	3
1	Bi		7,902.66	12.77	100.0	Pulse	0.10	3
2	Sc		133.34	52.50	100.0	Pulse	0.30	3
2	Ge		138.89	33.72	100.0	Pulse	0.30	3
2	Ge		165.56	28.92	100.0	Pulse	0.30	3
2	Rh		2,661.42	32.06	100.0	Pulse	0.30	3
2	In		969.33	21.48	100.0	Pulse	0.30	3
2	Tb		3,663.92	27.38	100.0	Pulse	0.30	3
2	Ho		3,460.53	23.15	100.0	Pulse	0.30	3
2	Bi		4,040.67	20.40	100.0	Pulse	0.30	3
3	Sc		60.00	84.07	100.0	Pulse	0.30	3
3	Ge		45.56	60.93	100.0	Pulse	0.30	3
3	Ge		103.33	78.29	100.0	Pulse	0.30	3
3	Rh		1,077.84	57.34	100.0	Pulse	0.30	3
3	Tb		1,809.09	69.81	100.0	Pulse	0.30	3

Quantitation Report

File Name	003CALB.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:27
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.007	ug/l	-57.14	106.67	2.439E-05	Pulse	0.25	3
B			1	-1.407	ug/l	-12.45	8,778.01	2.010E-03	Pulse	0.15	3
Ca			1	-13.137	ug/l	-3.71	5,671.21	1.584E-03	Pulse	0.10	3
Sr			1	-0.003	ug/l	-97.49	346.68	6.696E-05	Pulse	0.10	3
Mo			1	0.011	ug/l	127.61	120.01	2.334E-05	Pulse	0.10	3
Ag			1	0.009	ug/l	13.87	33.33	6.150E-06	Pulse	0.10	3
Sn			1	0.075	ug/l	76.79	2,316.93	4.269E-04	Pulse	0.10	3
Sb			1	-0.028	ug/l	-35.98	303.35	4.026E-05	Pulse	0.10	3
Ba			1	0.005	ug/l	85.11	40.00	5.279E-06	Pulse	0.10	3
Tl			1	0.000	ug/l	1020.14	256.68	5.872E-05	Pulse	0.10	3
Pb			1	-0.034	ug/l	-83.49	2,937.08	6.721E-04	Pulse	0.10	3
Pb			1	0.004	ug/l	918.77	2,607.00	5.976E-04	Pulse	0.10	3
Pb			1	0.000	ug/l	-81618.54	12,442.60	2.849E-03	Pulse	0.10	3
Na			2	-0.656	ug/l	-11.91	2,533.56	1.775E-02	Pulse	0.30	3
Mg			2	0.166	ug/l	49.37	563.35	3.948E-03	Pulse	0.30	3
Al			2	-2.644	ug/l	-3.23	56.67	3.969E-04	Pulse	0.30	3
K			2	-0.158	ug/l	-636.49	7,984.22	5.594E-02	Pulse	0.30	3
Ca			2	-1.381	ug/l	-74.39	20.00	1.403E-04	Pulse	0.30	3
Ti			2	-0.057	ug/l	0.00	0.00	0.000E+00	Pulse	0.30	3
V			2	-0.010	ug/l	-35.00	126.67	8.873E-04	Pulse	0.30	3
Cr			2	0.048	ug/l	8.84	287.62	2.016E-03	Pulse	0.30	3
Mn			2	-0.007	ug/l	-279.92	141.11	9.898E-04	Pulse	0.30	3
Fe			2	-8.829	ug/l	-1.95	8,500.05	5.954E-02	Pulse	0.30	3
Co			2	-0.002	ug/l	-102.42	19.98	1.403E-04	Pulse	0.30	3
Ni			2	0.034	ug/l	129.81	1,398.97	9.804E-03	Pulse	0.30	3
Cu			2	-0.031	ug/l	-11.90	1,213.39	8.502E-03	Pulse	0.30	3
Zn			2	-1.354	ug/l	-9.53	8,244.39	5.776E-02	Pulse	0.30	3
As			2	0.006	ug/l	89.60	13.00	9.114E-05	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	-0.002	ug/l	-172.44	8.89	9.192E-06	Pulse	0.30	3
Sn			2	0.353	ug/l	6.81	475.57	4.923E-04	Pulse	0.30	3
Se			3	-0.067	ug/l	-14.49	3.13	2.496E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,368,934.87	0.99	100.0	Analog	0.10	3
1	Sc		3,580,307.97	2.73	100.0	Analog	0.10	3
1	Ge		706,695.93	2.30	100.0	Pulse	0.10	3
1	Ge		984,232.82	2.09	100.0	Pulse	0.10	3
1	Rh		5,185,342.73	2.14	100.0	Analog	0.10	3
1	In		5,441,624.31	1.88	100.0	Analog	0.10	3
1	Tb		7,562,947.18	1.57	100.0	Analog	0.10	3
1	Ho		7,512,978.22	1.74	100.0	Analog	0.10	3
1	Bi		4,366,171.18	1.60	100.0	Analog	0.10	3
2	Sc		142,720.99	0.67	100.0	Pulse	0.30	3
2	Ge		93,317.45	0.92	100.0	Pulse	0.30	3
2	Ge		140,551.81	0.59	100.0	Pulse	0.30	3
2	Rh		2,693,600.94	0.83	100.0	Analog	0.30	3
2	In		966,008.39	0.29	100.0	Pulse	0.30	3
2	Tb		3,828,452.76	0.42	100.0	Analog	0.30	3
2	Ho		3,933,352.48	0.26	100.0	Analog	0.30	3
2	Bi		2,524,545.59	0.68	100.0	Analog	0.30	3
3	Sc		124,445.01	0.36	100.0	Pulse	0.30	3
3	Ge		82,708.93	1.69	100.0	Pulse	0.30	3
3	Ge		125,620.57	0.47	100.0	Pulse	0.30	3
3	Rh		1,508,373.38	1.52	100.0	Analog	0.30	3
3	Tb		2,873,772.66	0.24	100.0	Analog	0.30	3

Quantitation Report

File Name	004CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:31
Sample Name	STDB
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.504	ug/l	5.84	2,949.63	7.068E-04	Pulse	0.25	3
B			1	26.108	ug/l	2.71	85,649.61	2.051E-02	Pulse	0.15	3
Ca			1	236.582	ug/l	2.58	144,301.61	4.192E-02	Pulse	0.10	3
Sr			1	4.928	ug/l	1.63	132,888.38	2.678E-02	Pulse	0.10	3
Mo			1	0.964	ug/l	5.62	5,097.65	1.028E-03	Pulse	0.10	3
Ag			1	0.500	ug/l	2.84	6,318.14	1.206E-03	Pulse	0.10	3
Sn			1	4.671	ug/l	0.82	41,034.17	7.833E-03	Pulse	0.10	3
Sb			1	1.873	ug/l	1.38	19,652.94	2.694E-03	Pulse	0.10	3
Ba			1	1.009	ug/l	2.46	4,174.06	5.722E-04	Pulse	0.10	3
Tl			1	0.489	ug/l	1.75	13,022.84	3.056E-03	Pulse	0.10	3
Pb			1	0.502	ug/l	2.00	7,668.94	1.800E-03	Pulse	0.10	3
Pb			1	0.481	ug/l	18.45	6,284.90	1.474E-03	Pulse	0.10	3
Pb			1	0.476	ug/l	4.33	29,238.93	6.861E-03	Pulse	0.10	3
Na			2	241.999	ug/l	1.46	147,018.54	1.069E+00	Pulse	0.30	3
Mg			2	236.123	ug/l	0.93	69,829.69	5.079E-01	Pulse	0.30	3
Al			2	24.089	ug/l	3.78	2,644.68	1.923E-02	Pulse	0.30	3
K			2	246.145	ug/l	0.52	57,214.96	4.161E-01	Pulse	0.30	3
Ca			2	266.373	ug/l	1.60	2,941.41	2.139E-02	Pulse	0.30	3
Ti			2	1.143	ug/l	28.03	93.33	6.807E-04	Pulse	0.30	3
V			2	0.961	ug/l	0.96	2,672.47	1.944E-02	Pulse	0.30	3
Cr			2	0.994	ug/l	0.60	3,411.01	2.481E-02	Pulse	0.30	3
Mn			2	1.026	ug/l	1.16	1,957.92	1.424E-02	Pulse	0.30	3
Fe			2	17.142	ug/l	3.19	80,643.37	5.866E-01	Pulse	0.30	3
Co			2	0.505	ug/l	1.99	2,777.83	2.020E-02	Pulse	0.30	3
Ni			2	1.092	ug/l	7.26	2,874.74	2.090E-02	Pulse	0.30	3
Cu			2	2.017	ug/l	3.36	9,308.27	6.771E-02	Pulse	0.30	3
Zn			2	5.649	ug/l	5.74	12,321.41	8.960E-02	Pulse	0.30	3
As			2	0.475	ug/l	8.33	174.00	1.265E-03	Pulse	1.00	3
Cd			2	0.484	ug/l	16.35	498.57	5.211E-04	Pulse	0.30	3
Sn			2	5.046	ug/l	2.30	10,827.15	1.131E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.428	ug/l	4.34	29.53	2.357E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,174,236.14	1.60	95.5	Analog	0.10	3
1	Sc		3,443,512.86	3.06	96.2	Analog	0.10	3
1	Ge		687,496.47	1.92	97.3	Pulse	0.10	3
1	Ge		954,376.24	2.30	97.0	Pulse	0.10	3
1	Rh		4,962,578.78	2.71	95.7	Analog	0.10	3
1	In		5,238,344.63	2.21	96.3	Analog	0.10	3
1	Tb		7,292,359.68	2.59	96.4	Analog	0.10	3
1	Ho		7,296,989.68	2.93	97.1	Analog	0.10	3
1	Bi		4,260,712.54	2.10	97.6	Analog	0.10	3
2	Sc		137,512.91	1.81	96.4	Pulse	0.30	3
2	Ge		91,136.44	1.77	97.7	Pulse	0.30	3
2	Ge		138,249.04	1.54	98.4	Pulse	0.30	3
2	Rh		2,634,269.55	1.66	97.8	Analog	0.30	3
2	In		957,029.47	1.17	99.1	Pulse	0.30	3
2	Tb		3,802,921.52	0.95	99.3	Analog	0.30	3
2	Ho		3,883,309.43	0.82	98.7	Analog	0.30	3
2	Bi		2,493,042.89	0.92	98.8	Analog	0.30	3
3	Sc		120,330.90	1.06	96.7	Pulse	0.30	3
3	Ge		82,573.89	1.05	99.8	Pulse	0.30	3
3	Ge		125,309.50	0.34	99.8	Pulse	0.30	3
3	Rh		1,519,306.57	0.55	100.7	Analog	0.30	3
3	Tb		2,895,344.61	0.08	100.8	Analog	0.30	3

Quantitation Report

File Name	005CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:34
Sample Name	STDC
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.914	ug/l	1.17	26,009.26	6.597E-03	Pulse	0.25	3
B			1	4.318	ug/l	3.68	23,096.04	5.860E-03	Pulse	0.15	3
Ca			1	1.729	ug/l	10.81	12,878.79	3.986E-03	Pulse	0.10	3
Sr			1	4.886	ug/l	0.37	124,206.53	2.655E-02	Pulse	0.10	3
Mo			1	4.694	ug/l	4.64	23,224.27	4.961E-03	Pulse	0.10	3
Ag			1	4.759	ug/l	0.43	57,347.77	1.162E-02	Pulse	0.10	3
Sn			1	4.834	ug/l	0.42	39,958.11	8.095E-03	Pulse	0.10	3
Sb			1	4.845	ug/l	1.98	46,877.89	6.844E-03	Pulse	0.10	3
Ba			1	4.856	ug/l	1.30	18,812.00	2.745E-03	Pulse	0.10	3
Tl			1	4.834	ug/l	0.41	118,757.49	2.970E-02	Pulse	0.10	3
Pb			1	4.922	ug/l	2.16	44,390.98	1.110E-02	Pulse	0.10	3
Pb			1	4.864	ug/l	0.53	38,089.95	9.526E-03	Pulse	0.10	3
Pb			1	4.897	ug/l	0.84	176,543.89	4.414E-02	Pulse	0.10	3
Na			2	8.786	ug/l	4.24	7,729.63	5.867E-02	Pulse	0.30	3
Mg			2	5.959	ug/l	1.82	2,150.16	1.632E-02	Pulse	0.30	3
Al			2	3.787	ug/l	14.75	648.91	4.926E-03	Pulse	0.30	3
K			2	7.514	ug/l	9.53	8,847.98	6.716E-02	Pulse	0.30	3
Ca			2	33.299	ug/l	7.53	381.12	2.892E-03	Pulse	0.30	3
Ti			2	4.955	ug/l	3.84	374.45	2.842E-03	Pulse	0.30	3
V			2	4.942	ug/l	2.39	12,584.89	9.552E-02	Pulse	0.30	3
Cr			2	4.970	ug/l	1.39	15,884.00	1.206E-01	Pulse	0.30	3
Mn			2	4.827	ug/l	1.91	8,299.96	6.300E-02	Pulse	0.30	3
Fe			2	-3.398	ug/l	-9.12	22,361.94	1.697E-01	Pulse	0.30	3
Co			2	4.939	ug/l	2.54	25,786.85	1.957E-01	Pulse	0.30	3
Ni			2	5.004	ug/l	1.37	8,155.45	6.190E-02	Pulse	0.30	3
Cu			2	5.030	ug/l	2.15	20,396.11	1.548E-01	Pulse	0.30	3
Zn			2	5.256	ug/l	12.39	11,568.64	8.781E-02	Pulse	0.30	3
As			2	4.833	ug/l	4.53	1,604.08	1.218E-02	Pulse	1.00	3
Cd			2	4.895	ug/l	2.17	4,731.41	5.164E-03	Pulse	0.30	3
Sn			2	5.193	ug/l	2.23	10,677.04	1.165E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	4.748	ug/l	3.11	253.33	2.077E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,943,082.48	4.19	90.3	Analog	0.10	3
1	Sc		3,230,936.20	3.54	90.2	Analog	0.10	3
1	Ge		641,820.76	3.18	90.8	Pulse	0.10	3
1	Ge		899,989.08	4.15	91.4	Pulse	0.10	3
1	Rh		4,677,535.97	4.03	90.2	Analog	0.10	3
1	In		4,936,116.22	4.21	90.7	Analog	0.10	3
1	Tb		6,852,645.73	4.32	90.6	Analog	0.10	3
1	Ho		6,856,300.52	3.64	91.3	Analog	0.10	3
1	Bi		3,999,159.73	3.42	91.6	Analog	0.10	3
2	Sc		131,745.61	0.43	92.3	Pulse	0.30	3
2	Ge		88,712.05	0.39	95.1	Pulse	0.30	3
2	Ge		134,186.92	0.92	95.5	Pulse	0.30	3
2	Rh		2,547,773.30	0.36	94.6	Analog	0.30	3
2	In		916,303.51	0.70	94.9	Pulse	0.30	3
2	Tb		3,666,202.21	0.77	95.8	Analog	0.30	3
2	Ho		3,745,378.46	0.29	95.2	Analog	0.30	3
2	Bi		2,418,297.33	0.46	95.8	Analog	0.30	3
3	Sc		115,864.02	0.73	93.1	Pulse	0.30	3
3	Ge		79,243.05	1.49	95.8	Pulse	0.30	3
3	Ge		121,950.04	0.41	97.1	Pulse	0.30	3
3	Rh		1,444,362.83	1.10	95.8	Analog	0.30	3
3	Tb		2,766,758.50	0.67	96.3	Analog	0.30	3

Quantitation Report

File Name	006CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:37
Sample Name	STDD
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	24.991	ug/l	0.64	136,384.65	3.341E-02	Pulse	0.25	3
B			1	22.400	ug/l	6.26	73,561.19	1.802E-02	Pulse	0.15	3
Ca			1	23.298	ug/l	1.13	25,193.10	7.470E-03	Pulse	0.10	3
Sr			1	24.875	ug/l	0.89	658,683.38	1.348E-01	Pulse	0.10	3
Mo			1	24.715	ug/l	2.86	127,330.57	2.608E-02	Pulse	0.10	3
Ag			1	25.417	ug/l	0.24	320,308.70	6.211E-02	Pulse	0.10	3
Sn			1	24.539	ug/l	1.55	205,520.67	3.985E-02	Pulse	0.10	3
Sb			1	24.849	ug/l	2.28	248,295.17	3.477E-02	Pulse	0.10	3
Ba			1	24.493	ug/l	1.28	98,776.37	1.383E-02	Pulse	0.10	3
Tl			1	24.789	ug/l	1.25	633,026.06	1.520E-01	Pulse	0.10	3
Pb			1	24.854	ug/l	1.39	220,723.31	5.302E-02	Pulse	0.10	3
Pb			1	24.733	ug/l	1.50	191,607.82	4.602E-02	Pulse	0.10	3
Pb			1	24.828	ug/l	1.22	883,483.56	2.122E-01	Pulse	0.10	3
Na			2	24.964	ug/l	0.99	17,164.38	1.288E-01	Pulse	0.30	3
Mg			2	24.593	ug/l	1.38	7,479.50	5.611E-02	Pulse	0.30	3
Al			2	23.174	ug/l	4.67	2,476.88	1.858E-02	Pulse	0.30	3
K			2	26.867	ug/l	4.88	12,722.73	9.546E-02	Pulse	0.30	3
Ca			2	106.750	ug/l	2.27	1,162.28	8.721E-03	Pulse	0.30	3
Ti			2	24.455	ug/l	4.57	1,852.35	1.390E-02	Pulse	0.30	3
V			2	25.097	ug/l	0.71	64,072.88	4.807E-01	Pulse	0.30	3
Cr			2	25.129	ug/l	1.10	80,784.93	6.061E-01	Pulse	0.30	3
Mn			2	24.889	ug/l	1.06	42,707.31	3.204E-01	Pulse	0.30	3
Fe			2	15.900	ug/l	1.51	74,827.13	5.614E-01	Pulse	0.30	3
Co			2	24.794	ug/l	0.46	130,855.16	9.817E-01	Pulse	0.30	3
Ni			2	24.799	ug/l	1.61	35,907.99	2.694E-01	Pulse	0.30	3
Cu			2	24.959	ug/l	0.60	97,454.78	7.311E-01	Pulse	0.30	3
Zn			2	25.194	ug/l	2.45	23,787.38	1.785E-01	Pulse	0.30	3
As			2	25.072	ug/l	1.55	8,376.49	6.285E-02	Pulse	1.00	3
Cd			2	24.787	ug/l	1.96	24,249.78	2.610E-02	Pulse	0.30	3
Sn			2	24.547	ug/l	0.63	52,282.90	5.628E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	24.480	ug/l	2.31	1,267.85	1.049E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,081,874.92	1.13	93.4	Analog	0.10	3
1	Sc		3,372,766.93	0.70	94.2	Analog	0.10	3
1	Ge		673,983.22	1.81	95.4	Pulse	0.10	3
1	Ge		940,934.05	1.70	95.6	Pulse	0.10	3
1	Rh		4,885,624.09	2.80	94.2	Analog	0.10	3
1	In		5,156,960.69	1.96	94.8	Analog	0.10	3
1	Tb		7,139,392.60	1.37	94.4	Analog	0.10	3
1	Ho		7,140,742.60	0.88	95.0	Analog	0.10	3
1	Bi		4,163,520.14	0.86	95.4	Analog	0.10	3
2	Sc		133,291.94	0.80	93.4	Pulse	0.30	3
2	Ge		88,675.35	0.57	95.0	Pulse	0.30	3
2	Ge		134,307.89	1.59	95.6	Pulse	0.30	3
2	Rh		2,562,481.50	1.20	95.1	Analog	0.30	3
2	In		929,078.46	1.21	96.2	Pulse	0.30	3
2	Tb		3,661,528.05	0.75	95.6	Analog	0.30	3
2	Ho		3,735,473.32	0.55	95.0	Analog	0.30	3
2	Bi		2,439,127.06	0.68	96.6	Analog	0.30	3
3	Sc		116,428.99	0.33	93.6	Pulse	0.30	3
3	Ge		79,596.86	0.07	96.2	Pulse	0.30	3
3	Ge		120,892.27	0.23	96.2	Pulse	0.30	3
3	Rh		1,457,024.21	0.33	96.6	Analog	0.30	3
3	Tb		2,760,761.35	0.61	96.1	Analog	0.30	3

Quantitation Report

File Name	007CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:41
Sample Name	STDE
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.504	ug/l	1.38	273,496.56	6.749E-02	Pulse	0.25	3
B			1	49.091	ug/l	4.41	145,779.86	3.597E-02	Pulse	0.15	3
Ca			1	54.352	ug/l	3.16	42,274.85	1.249E-02	Pulse	0.10	3
Sr			1	50.864	ug/l	0.49	1,342,308.52	2.756E-01	Analog	0.10	3
Mo			1	50.178	ug/l	0.41	257,769.64	5.293E-02	Pulse	0.10	3
Ag			1	50.194	ug/l	1.29	634,139.80	1.227E-01	Pulse	0.10	3
Sn			1	49.604	ug/l	0.52	414,701.01	8.023E-02	Pulse	0.10	3
Sb			1	50.234	ug/l	1.95	503,567.28	7.021E-02	Pulse	0.10	3
Ba			1	49.578	ug/l	0.99	200,793.32	2.800E-02	Pulse	0.10	3
Tl			1	50.740	ug/l	1.99	1,296,502.25	3.111E-01	Analog	0.10	3
Pb			1	49.868	ug/l	1.54	440,091.71	1.056E-01	Pulse	0.10	3
Pb			1	49.918	ug/l	2.55	384,510.16	9.228E-02	Pulse	0.10	3
Pb			1	50.237	ug/l	1.76	1,776,818.30	4.264E-01	Pulse	0.10	3
Na			2	52.127	ug/l	1.52	33,065.67	2.465E-01	Pulse	0.30	3
Mg			2	51.124	ug/l	2.36	15,127.99	1.128E-01	Pulse	0.30	3
Al			2	52.676	ug/l	3.16	5,279.79	3.936E-02	Pulse	0.30	3
K			2	51.117	ug/l	1.24	17,562.70	1.309E-01	Pulse	0.30	3
Ca			2	225.907	ug/l	8.20	2,439.09	1.818E-02	Pulse	0.30	3
Ti			2	51.584	ug/l	4.02	3,928.30	2.928E-02	Pulse	0.30	3
V			2	50.103	ug/l	0.32	128,601.32	9.586E-01	Pulse	0.30	3
Cr			2	50.135	ug/l	0.42	162,103.72	1.208E+00	Pulse	0.30	3
Mn			2	49.925	ug/l	0.65	86,069.77	6.416E-01	Pulse	0.30	3
Fe			2	42.421	ug/l	0.50	147,507.48	1.100E+00	Pulse	0.30	3
Co			2	50.231	ug/l	0.14	266,796.49	1.989E+00	Pulse	0.30	3
Ni			2	50.159	ug/l	1.04	71,800.84	5.352E-01	Pulse	0.30	3
Cu			2	50.151	ug/l	0.35	195,798.35	1.460E+00	Pulse	0.30	3
Zn			2	49.180	ug/l	1.64	38,567.50	2.875E-01	Pulse	0.30	3
As			2	50.103	ug/l	0.92	16,837.67	1.255E-01	Pulse	1.00	3
Cd			2	50.174	ug/l	0.48	49,088.64	5.283E-02	Pulse	0.30	3
Sn			2	49.887	ug/l	0.30	106,594.15	1.147E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	49.820	ug/l	1.82	2,600.07	2.129E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,052,658.06	0.72	92.8	Analog	0.10	3
1	Sc		3,385,461.09	0.67	94.6	Analog	0.10	3
1	Ge		677,786.16	1.98	95.9	Pulse	0.10	3
1	Ge		942,863.61	1.66	95.8	Pulse	0.10	3
1	Rh		4,869,982.32	2.05	93.9	Analog	0.10	3
1	In		5,168,739.28	1.81	95.0	Analog	0.10	3
1	Tb		7,170,364.27	1.63	94.8	Analog	0.10	3
1	Ho		7,142,936.77	0.81	95.1	Analog	0.10	3
1	Bi		4,166,607.44	0.75	95.4	Analog	0.10	3
2	Sc		134,152.16	0.54	94.0	Pulse	0.30	3
2	Ge		89,725.26	1.43	96.2	Pulse	0.30	3
2	Ge		134,619.38	1.14	95.8	Pulse	0.30	3
2	Rh		2,583,303.51	1.28	95.9	Analog	0.30	3
2	In		929,282.96	0.74	96.2	Pulse	0.30	3
2	Tb		3,682,239.86	1.18	96.2	Analog	0.30	3
2	Ho		3,784,163.04	1.00	96.2	Analog	0.30	3
2	Bi		2,455,176.57	1.19	97.3	Analog	0.30	3
3	Sc		116,667.32	0.50	93.8	Pulse	0.30	3
3	Ge		79,949.83	0.41	96.7	Pulse	0.30	3
3	Ge		122,150.04	0.97	97.2	Pulse	0.30	3
3	Rh		1,447,794.73	1.89	96.0	Analog	0.30	3
3	Tb		2,763,252.81	0.99	96.2	Analog	0.30	3

Quantitation Report

File Name	008CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:44
Sample Name	STDF
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	101.282	ug/l	1.21	533,554.46	1.353E-01	Pulse	0.25	3
B			1	98.783	ug/l	5.76	273,779.00	6.939E-02	Pulse	0.15	3
Ca			1	137.792	ug/l	0.59	83,660.42	2.596E-02	Pulse	0.10	3
Sr			1	99.468	ug/l	0.48	2,525,453.76	5.389E-01	Analog	0.10	3
Mo			1	100.475	ug/l	1.01	496,696.96	1.060E-01	Pulse	0.10	3
Ag			1	101.261	ug/l	2.20	1,230,836.23	2.475E-01	Mix	0.10	3
Sn			1	100.330	ug/l	1.07	805,315.85	1.620E-01	Pulse	0.10	3
Sb			1	100.209	ug/l	2.29	965,432.90	1.400E-01	Pulse	0.10	3
Ba			1	101.095	ug/l	1.52	393,701.24	5.709E-02	Pulse	0.10	3
Tl			1	100.603	ug/l	0.17	2,502,881.73	6.169E-01	Analog	0.10	3
Pb			1	101.201	ug/l	1.31	866,793.71	2.136E-01	Pulse	0.10	3
Pb			1	100.494	ug/l	0.59	751,438.48	1.852E-01	Pulse	0.10	3
Pb			1	102.070	ug/l	0.74	3,503,673.36	8.635E-01	Analog	0.10	3
Na			2	103.016	ug/l	1.51	61,702.77	4.670E-01	Pulse	0.30	3
Mg			2	97.768	ug/l	2.52	28,056.69	2.124E-01	Pulse	0.30	3
Al			2	102.520	ug/l	1.94	9,836.30	7.447E-02	Pulse	0.30	3
K			2	102.286	ug/l	2.81	27,175.48	2.057E-01	Pulse	0.30	3
Ca			2	438.468	ug/l	2.02	4,629.60	3.504E-02	Pulse	0.30	3
Ti			2	99.345	ug/l	1.12	7,447.31	5.637E-02	Pulse	0.30	3
V			2	99.928	ug/l	1.23	252,425.68	1.911E+00	Pulse	0.30	3
Cr			2	100.021	ug/l	1.17	318,354.08	2.410E+00	Pulse	0.30	3
Mn			2	99.955	ug/l	0.70	169,564.00	1.283E+00	Pulse	0.30	3
Fe			2	93.666	ug/l	1.51	282,630.32	2.139E+00	Pulse	0.30	3
Co			2	100.035	ug/l	1.75	523,141.75	3.960E+00	Pulse	0.30	3
Ni			2	99.970	ug/l	1.80	139,677.13	1.057E+00	Pulse	0.30	3
Cu			2	99.933	ug/l	1.76	382,947.45	2.899E+00	Pulse	0.30	3
Zn			2	100.428	ug/l	1.48	68,755.58	5.205E-01	Pulse	0.30	3
As			2	99.717	ug/l	1.62	32,988.42	2.497E-01	Pulse	1.00	3
Cd			2	99.921	ug/l	0.32	95,944.11	1.052E-01	Pulse	0.30	3
Sn			2	100.168	ug/l	0.64	210,358.74	2.306E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	98.535	ug/l	1.69	5,099.06	4.205E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,942,715.63	2.04	90.2	Analog	0.10	3
1	Sc		3,222,337.56	2.70	90.0	Analog	0.10	3
1	Ge		651,700.85	3.74	92.2	Pulse	0.10	3
1	Ge		908,599.00	4.44	92.3	Pulse	0.10	3
1	Rh		4,686,263.06	2.76	90.4	Analog	0.10	3
1	In		4,971,432.56	2.37	91.4	Analog	0.10	3
1	Tb		6,894,625.73	2.16	91.2	Analog	0.10	3
1	Ho		6,948,281.14	2.38	92.5	Analog	0.10	3
1	Bi		4,057,544.94	2.61	92.9	Analog	0.10	3
2	Sc		132,120.12	1.79	92.6	Pulse	0.30	3
2	Ge		87,795.05	1.72	94.1	Pulse	0.30	3
2	Ge		131,677.43	0.90	93.7	Pulse	0.30	3
2	Rh		2,479,028.51	0.82	92.0	Analog	0.30	3
2	In		912,112.45	1.20	94.4	Pulse	0.30	3
2	Tb		3,597,774.72	0.66	94.0	Analog	0.30	3
2	Ho		3,684,072.21	0.82	93.7	Analog	0.30	3
2	Bi		2,383,396.57	0.64	94.4	Analog	0.30	3
3	Sc		115,640.05	1.21	92.9	Pulse	0.30	3
3	Ge		78,093.05	1.46	94.4	Pulse	0.30	3
3	Ge		121,267.21	0.84	96.5	Pulse	0.30	3
3	Rh		1,428,888.62	0.92	94.7	Analog	0.30	3
3	Tb		2,735,272.25	0.36	95.2	Analog	0.30	3

Quantitation Report

File Name	009CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:48
Sample Name	STDG
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.107	ug/l	79.46	682.70	1.759E-04	Pulse	0.25	3
B			1	201.153	ug/l	6.37	537,687.11	1.382E-01	Pulse	0.15	3
Ca			1	524.179	ug/l	1.27	282,337.06	8.838E-02	Pulse	0.10	3
Sr			1	0.073	ug/l	98.06	2,203.71	4.766E-04	Pulse	0.10	3
Mo			1	0.283	ug/l	44.70	1,443.46	3.102E-04	Pulse	0.10	3
Ag			1	0.117	ug/l	96.20	1,336.83	2.721E-04	Pulse	0.10	3
Sn			1	1.863	ug/l	19.74	16,509.35	3.309E-03	Pulse	0.10	3
Sb			1	1.258	ug/l	42.50	12,686.16	1.836E-03	Pulse	0.10	3
Ba			1	0.128	ug/l	40.32	520.03	7.520E-05	Pulse	0.10	3
Tl			1	0.155	ug/l	46.34	4,100.81	1.009E-03	Pulse	0.10	3
Pb			1	0.058	ug/l	144.67	3,537.25	8.675E-04	Pulse	0.10	3
Pb			1	0.087	ug/l	49.56	3,063.77	7.507E-04	Pulse	0.10	3
Pb			1	0.069	ug/l	88.48	13,986.53	3.428E-03	Pulse	0.10	3
Na			2	510.314	ug/l	0.79	293,078.75	2.232E+00	Pulse	0.30	3
Mg			2	502.827	ug/l	0.94	141,472.45	1.077E+00	Pulse	0.30	3
Al			2	517.576	ug/l	1.35	48,160.64	3.668E-01	Pulse	0.30	3
K			2	506.536	ug/l	0.58	104,630.41	7.968E-01	Pulse	0.30	3
Ca			2	506.224	ug/l	2.92	5,306.47	4.042E-02	Pulse	0.30	3
Ti			2	0.405	ug/l	32.77	34.44	2.619E-04	Pulse	0.30	3
V			2	-0.015	ug/l	-57.74	103.34	7.878E-04	Pulse	0.30	3
Cr			2	0.047	ug/l	41.57	261.28	1.993E-03	Pulse	0.30	3
Mn			2	0.057	ug/l	36.94	237.78	1.811E-03	Pulse	0.30	3
Fe			2	527.280	ug/l	1.08	1,436,256.89	1.094E+01	Analog	0.30	3
Co			2	0.012	ug/l	16.61	89.46	6.812E-04	Pulse	0.30	3
Ni			2	0.045	ug/l	256.73	1,302.29	9.927E-03	Pulse	0.30	3
Cu			2	0.121	ug/l	20.24	1,693.44	1.289E-02	Pulse	0.30	3
Zn			2	1.995	ug/l	15.08	9,582.88	7.299E-02	Pulse	0.30	3
As			2	0.098	ug/l	20.56	42.00	3.199E-04	Pulse	1.00	3
Cd			2	0.009	ug/l	44.76	18.85	2.047E-05	Pulse	0.30	3
Sn			2	2.035	ug/l	8.92	4,026.12	4.371E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	204.719	ug/l	0.63	10,568.74	8.731E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,888,667.15	1.63	89.0	Analog	0.10	3
1	Sc		3,195,226.30	2.80	89.2	Analog	0.10	3
1	Ge		650,240.60	2.37	92.0	Pulse	0.10	3
1	Ge		906,535.43	2.76	92.1	Pulse	0.10	3
1	Rh		4,686,478.26	2.58	90.4	Analog	0.10	3
1	In		5,005,296.13	2.96	92.0	Analog	0.10	3
1	Tb		6,950,642.81	2.32	91.9	Analog	0.10	3
1	Ho		6,974,312.81	1.91	92.8	Analog	0.10	3
1	Bi		4,087,064.94	2.30	93.6	Analog	0.10	3
2	Sc		131,311.43	1.30	92.0	Pulse	0.30	3
2	Ge		88,307.69	1.56	94.6	Pulse	0.30	3
2	Ge		132,777.61	1.29	94.5	Pulse	0.30	3
2	Rh		2,502,971.57	0.31	92.9	Analog	0.30	3
2	In		920,440.34	1.08	95.3	Pulse	0.30	3
2	Tb		3,682,038.74	1.21	96.2	Analog	0.30	3
2	Ho		3,756,538.46	1.44	95.5	Analog	0.30	3
2	Bi		2,428,693.31	0.87	96.2	Analog	0.30	3
3	Sc		115,932.27	1.10	93.2	Pulse	0.30	3
3	Ge		79,829.24	0.69	96.5	Pulse	0.30	3
3	Ge		121,048.81	0.13	96.4	Pulse	0.30	3
3	Rh		1,440,730.33	0.19	95.5	Analog	0.30	3
3	Tb		2,797,478.22	0.52	97.3	Analog	0.30	3

Quantitation Report

File Name	010CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:51
Sample Name	STDH
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.013	ug/l	51.66	206.67	5.128E-05	Pulse	0.25	3
B			1	21.260	ug/l	20.62	69,434.86	1.725E-02	Pulse	0.15	3
Ca			1	1003.337	ug/l	1.44	552,204.43	1.658E-01	Pulse	0.10	3
Sr			1	0.014	ug/l	27.14	770.05	1.596E-04	Pulse	0.10	3
Mo			1	0.042	ug/l	43.28	270.01	5.616E-05	Pulse	0.10	3
Ag			1	0.011	ug/l	19.13	60.00	1.166E-05	Pulse	0.10	3
Sn			1	0.307	ug/l	3.23	4,117.34	8.010E-04	Pulse	0.10	3
Sb			1	0.182	ug/l	22.29	2,413.62	3.336E-04	Pulse	0.10	3
Ba			1	0.031	ug/l	25.66	146.67	2.028E-05	Pulse	0.10	3
Tl			1	0.022	ug/l	7.31	810.05	1.935E-04	Pulse	0.10	3
Pb			1	-0.015	ug/l	-296.62	2,990.41	7.133E-04	Pulse	0.10	3
Pb			1	0.008	ug/l	410.86	2,530.32	6.041E-04	Pulse	0.10	3
Pb			1	-0.002	ug/l	-1055.32	11,869.02	2.833E-03	Pulse	0.10	3
Na			2	997.798	ug/l	1.02	580,889.32	4.345E+00	Pulse	0.30	3
Mg			2	980.881	ug/l	0.38	280,576.26	2.098E+00	Pulse	0.30	3
Al			2	1022.893	ug/l	0.25	96,636.90	7.227E-01	Pulse	0.30	3
K			2	1003.093	ug/l	0.37	203,628.65	1.523E+00	Pulse	0.30	3
Ca			2	1011.175	ug/l	1.15	10,763.55	8.049E-02	Pulse	0.30	3
Ti			2	0.074	ug/l	100.97	10.00	7.442E-05	Pulse	0.30	3
V			2	-0.011	ug/l	-119.85	116.67	8.719E-04	Pulse	0.30	3
Cr			2	0.030	ug/l	28.06	212.77	1.592E-03	Pulse	0.30	3
Mn			2	0.042	ug/l	34.33	215.56	1.612E-03	Pulse	0.30	3
Fe			2	1043.069	ug/l	0.26	2,862,165.58	2.141E+01	Analog	0.30	3
Co			2	0.015	ug/l	21.65	107.83	8.068E-04	Pulse	0.30	3
Ni			2	0.148	ug/l	7.31	1,471.20	1.100E-02	Pulse	0.30	3
Cu			2	-0.005	ug/l	-122.02	1,234.51	9.232E-03	Pulse	0.30	3
Zn			2	-0.350	ug/l	-59.24	8,333.32	6.233E-02	Pulse	0.30	3
As			2	0.037	ug/l	6.89	22.33	1.671E-04	Pulse	1.00	3
Cd			2	0.000	ug/l	1530.15	11.10	1.184E-05	Pulse	0.30	3
Sn			2	0.729	ug/l	6.18	1,276.73	1.360E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	397.919	ug/l	0.83	20,654.04	1.697E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,027,127.26	0.62	92.2	Analog	0.10	3
1	Sc		3,330,576.93	1.85	93.0	Analog	0.10	3
1	Ge		664,907.54	2.46	94.1	Pulse	0.10	3
1	Ge		934,872.46	2.28	95.0	Pulse	0.10	3
1	Rh		4,823,432.32	1.40	93.0	Analog	0.10	3
1	In		5,139,643.55	0.96	94.5	Analog	0.10	3
1	Tb		7,247,990.93	1.61	95.8	Analog	0.10	3
1	Ho		7,174,809.69	1.62	95.5	Analog	0.10	3
1	Bi		4,188,100.77	1.20	95.9	Analog	0.10	3
2	Sc		133,714.39	1.19	93.7	Pulse	0.30	3
2	Ge		89,391.53	2.25	95.8	Pulse	0.30	3
2	Ge		135,401.62	1.45	96.3	Pulse	0.30	3
2	Rh		2,544,364.00	1.46	94.5	Analog	0.30	3
2	In		938,650.78	0.81	97.2	Pulse	0.30	3
2	Tb		3,734,961.66	0.82	97.6	Analog	0.30	3
2	Ho		3,839,079.01	0.16	97.6	Analog	0.30	3
2	Bi		2,456,482.89	0.36	97.3	Analog	0.30	3
3	Sc		116,971.29	0.32	94.0	Pulse	0.30	3
3	Ge		79,490.73	0.95	96.1	Pulse	0.30	3
3	Ge		121,742.77	0.49	96.9	Pulse	0.30	3
3	Rh		1,444,378.59	0.65	95.8	Analog	0.30	3
3	Tb		2,764,884.06	0.29	96.2	Analog	0.30	3

Quantitation Report

File Name	011CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:55
Sample Name	STDI
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.011	ug/l	72.95	197.34	4.894E-05	Pulse	0.25	3
B			1	3.665	ug/l	17.21	21,858.97	5.421E-03	Pulse	0.15	3
Ca			1	5099.106	ug/l	1.22	2,780,619.75	8.274E-01	Analog	0.10	3
Sr			1	0.037	ug/l	15.02	1,340.11	2.834E-04	Pulse	0.10	3
Mo			1	0.027	ug/l	26.21	186.68	3.942E-05	Pulse	0.10	3
Ag			1	0.009	ug/l	34.48	40.00	7.925E-06	Pulse	0.10	3
Sn			1	0.138	ug/l	19.88	2,653.67	5.285E-04	Pulse	0.10	3
Sb			1	0.110	ug/l	15.45	1,656.82	2.325E-04	Pulse	0.10	3
Ba			1	0.056	ug/l	8.29	243.34	3.413E-05	Pulse	0.10	3
Tl			1	0.009	ug/l	35.23	473.36	1.158E-04	Pulse	0.10	3
Pb			1	0.005	ug/l	98.87	3,090.44	7.561E-04	Pulse	0.10	3
Pb			1	0.032	ug/l	24.56	2,650.35	6.483E-04	Pulse	0.10	3
Pb			1	0.019	ug/l	76.96	12,285.81	3.007E-03	Pulse	0.10	3
Na			2	5143.348	ug/l	1.66	3,063,692.38	2.231E+01	Analog	0.30	3
Mg			2	5155.141	ug/l	1.18	1,512,466.54	1.101E+01	Analog	0.30	3
Al			2	5091.644	ug/l	1.19	492,809.46	3.588E+00	Pulse	0.30	3
K			2	4983.986	ug/l	0.71	1,008,594.33	7.344E+00	Pulse	0.30	3
Ca			2	5000.483	ug/l	0.09	54,534.42	3.971E-01	Pulse	0.30	3
Ti			2	-0.014	ug/l	-4.56	3.33	2.425E-05	Pulse	0.30	3
V			2	-0.010	ug/l	-48.38	122.22	8.893E-04	Pulse	0.30	3
Cr			2	0.016	ug/l	8.08	172.48	1.256E-03	Pulse	0.30	3
Mn			2	0.169	ug/l	10.40	445.57	3.246E-03	Pulse	0.30	3
Fe			2	5087.272	ug/l	1.55	14,209,773.88	1.035E+02	Analog	0.30	3
Co			2	0.044	ug/l	24.83	269.42	1.958E-03	Pulse	0.30	3
Ni			2	0.061	ug/l	50.32	1,386.75	1.010E-02	Pulse	0.30	3
Cu			2	0.063	ug/l	24.97	1,541.20	1.122E-02	Pulse	0.30	3
Zn			2	-0.663	ug/l	-26.30	8,364.45	6.091E-02	Pulse	0.30	3
As			2	0.016	ug/l	123.75	15.67	1.146E-04	Pulse	1.00	3
Cd			2	-0.002	ug/l	-115.68	8.88	9.577E-06	Pulse	0.30	3
Sn			2	0.496	ug/l	6.46	765.59	8.228E-04	Pulse	0.30	3
Se			3	0.507	ug/l	9.82	33.07	2.696E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,037,299.55	2.51	92.4	Analog	0.10	3
1	Sc		3,360,787.24	1.96	93.9	Analog	0.10	3
1	Ge		658,408.83	2.92	93.2	Pulse	0.10	3

Quantitation Report

1	Ge		919,221.10	2.68	93.4	Pulse	0.10	3
1	Rh		4,727,888.99	2.52	91.2	Analog	0.10	3
1	In		5,022,480.41	1.37	92.3	Analog	0.10	3
1	Tb		7,134,708.64	1.71	94.3	Analog	0.10	3
1	Ho		7,115,100.73	1.68	94.7	Analog	0.10	3
1	Bi		4,086,993.59	2.16	93.6	Analog	0.10	3
2	Sc		137,349.36	1.51	96.2	Pulse	0.30	3
2	Ge		90,509.71	1.34	97.0	Pulse	0.30	3
2	Ge		135,890.91	0.84	96.7	Pulse	0.30	3
2	Rh		2,516,723.23	0.90	93.4	Analog	0.30	3
2	In		929,569.83	1.77	96.2	Pulse	0.30	3
2	Tb		3,734,339.99	0.13	97.5	Analog	0.30	3
2	Ho		3,844,844.43	0.87	97.7	Analog	0.30	3
2	Bi		2,425,555.67	0.29	96.1	Analog	0.30	3
3	Sc		120,291.51	0.82	96.7	Pulse	0.30	3
3	Ge		81,790.93	0.68	98.9	Pulse	0.30	3
3	Ge		122,636.76	0.85	97.6	Pulse	0.30	3
3	Rh		1,438,531.30	0.73	95.4	Analog	0.30	3
3	Tb		2,827,155.58	0.92	98.4	Analog	0.30	3

Quantitation Report

File Name	012CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 10:58
Sample Name	STDJ
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.007	ug/l	186.87	174.67	4.308E-05	Pulse	0.25	3
B			1	1.339	ug/l	11.08	15,596.37	3.857E-03	Pulse	0.15	3
Ca			1	9891.763	ug/l	1.28	5,485,082.21	1.602E+00	Analog	0.10	3
Sr			1	0.070	ug/l	11.65	2,190.25	4.630E-04	Pulse	0.10	3
Mo			1	0.026	ug/l	27.39	183.34	3.872E-05	Pulse	0.10	3
Ag			1	0.011	ug/l	26.27	60.00	1.195E-05	Pulse	0.10	3
Sn			1	0.039	ug/l	35.36	1,843.52	3.692E-04	Pulse	0.10	3
Sb			1	0.093	ug/l	19.22	1,496.80	2.094E-04	Pulse	0.10	3
Ba			1	0.102	ug/l	12.41	433.36	6.048E-05	Pulse	0.10	3
Tl			1	0.007	ug/l	30.30	400.02	9.877E-05	Pulse	0.10	3
Pb			1	0.038	ug/l	14.22	3,343.86	8.247E-04	Pulse	0.10	3
Pb			1	0.073	ug/l	32.43	2,937.08	7.252E-04	Pulse	0.10	3
Pb			1	0.051	ug/l	12.36	13,309.55	3.282E-03	Pulse	0.10	3
Na			2	9862.905	ug/l	1.48	5,970,221.01	4.276E+01	Analog	0.30	3
Mg			2	9882.205	ug/l	1.37	2,947,085.09	2.111E+01	Analog	0.30	3
Al			2	9868.639	ug/l	1.46	970,729.75	6.953E+00	Pulse	0.30	3
K			2	10274.387	ug/l	2.22	2,105,125.54	1.508E+01	Analog	0.30	3
Ca			2	9671.989	ug/l	0.90	107,198.69	7.677E-01	Pulse	0.30	3
Ti			2	0.013	ug/l	476.16	5.56	3.986E-05	Pulse	0.30	3
V			2	-0.002	ug/l	-423.45	145.56	1.042E-03	Pulse	0.30	3
Cr			2	0.020	ug/l	113.40	186.80	1.333E-03	Pulse	0.30	3
Mn			2	0.316	ug/l	10.72	715.58	5.125E-03	Pulse	0.30	3
Fe			2	9869.651	ug/l	1.78	27,994,419.44	2.005E+02	Analog	0.30	3
Co			2	0.087	ug/l	14.46	508.87	3.648E-03	Pulse	0.30	3
Ni			2	0.209	ug/l	10.66	1,625.66	1.164E-02	Pulse	0.30	3
Cu			2	0.037	ug/l	62.99	1,460.08	1.045E-02	Pulse	0.30	3
Zn			2	1.135	ug/l	10.30	9,646.28	6.908E-02	Pulse	0.30	3
As			2	0.016	ug/l	87.72	16.00	1.150E-04	Pulse	1.00	3
Cd			2	0.001	ug/l	1260.28	11.10	1.209E-05	Pulse	0.30	3
Sn			2	0.371	ug/l	7.17	493.35	5.353E-04	Pulse	0.30	3
Se			3	0.080	ug/l	43.26	10.87	8.770E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,044,945.61	1.33	92.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,424,858.91	1.81	95.7	Analog	0.10	3
1	Ge		670,836.55	2.64	94.9	Pulse	0.10	3
1	Ge		931,534.73	2.60	94.6	Pulse	0.10	3
1	Rh		4,735,050.76	2.43	91.3	Analog	0.10	3
1	In		4,994,596.94	1.77	91.8	Analog	0.10	3
1	Tb		7,158,645.73	2.16	94.7	Analog	0.10	3
1	Ho		7,141,259.69	2.34	95.1	Analog	0.10	3
1	Bi		4,053,932.75	2.56	92.8	Analog	0.10	3
2	Sc		139,638.31	1.83	97.8	Pulse	0.30	3
2	Ge		90,992.47	1.24	97.5	Pulse	0.30	3
2	Ge		136,843.95	1.38	97.4	Pulse	0.30	3
2	Rh		2,506,948.37	1.41	93.1	Analog	0.30	3
2	In		921,243.24	0.75	95.4	Pulse	0.30	3
2	Tb		3,729,964.72	1.14	97.4	Analog	0.30	3
2	Ho		3,813,028.18	0.56	96.9	Analog	0.30	3
2	Bi		2,370,497.27	0.95	93.9	Analog	0.30	3
3	Sc		121,580.73	0.67	97.7	Pulse	0.30	3
3	Ge		81,151.13	0.69	98.1	Pulse	0.30	3
3	Ge		123,870.50	0.81	98.6	Pulse	0.30	3
3	Rh		1,430,779.39	1.04	94.9	Analog	0.30	3
3	Tb		2,834,943.01	0.84	98.6	Analog	0.30	3

Quantitation Report

File Name	013SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:02
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.001	ug/l	688.15	146.67	3.507E-05	Pulse	0.25	3
B			1	-0.057	ug/l	-457.97	12,122.40	2.918E-03	Pulse	0.15	3
Ca			1	-0.095	ug/l	-21038.67	12,348.24	3.691E-03	Pulse	0.10	3
Sr			1	0.000	ug/l	628.66	423.36	8.513E-05	Pulse	0.10	3
Mo			1	0.001	ug/l	383.89	63.33	1.282E-05	Pulse	0.10	3
Ag			1	0.009	ug/l	50.12	30.00	6.049E-06	Pulse	0.10	3
Sn			1	0.000	ug/l	---	1,593.46	3.068E-04	Pulse	0.10	3
Sb			1	0.006	ug/l	275.30	633.37	8.806E-05	Pulse	0.10	3
Ba			1	0.000	ug/l	1193.34	20.00	2.752E-06	Pulse	0.10	3
Tl			1	0.001	ug/l	163.45	260.01	6.229E-05	Pulse	0.10	3
Pb			1	-0.013	ug/l	-298.73	2,980.41	7.174E-04	Pulse	0.10	3
Pb			1	0.019	ug/l	70.15	2,610.34	6.258E-04	Pulse	0.10	3
Pb			1	0.004	ug/l	153.29	11,995.72	2.880E-03	Pulse	0.10	3
Na			2	0.003	ug/l	1980.74	2,839.16	2.061E-02	Pulse	0.30	3
Mg			2	0.096	ug/l	197.33	523.35	3.800E-03	Pulse	0.30	3
Al			2	-0.289	ug/l	-175.63	283.34	2.056E-03	Pulse	0.30	3
K			2	0.596	ug/l	109.86	7,859.70	5.705E-02	Pulse	0.30	3
Ca			2	-0.100	ug/l	-318.43	33.33	2.420E-04	Pulse	0.30	3
Ti			2	0.000	ug/l	---	4.44	3.225E-05	Pulse	0.30	3
V			2	0.000	ug/l	---	147.78	1.073E-03	Pulse	0.30	3
Cr			2	0.013	ug/l	67.82	162.28	1.178E-03	Pulse	0.30	3
Mn			2	-0.022	ug/l	-52.81	108.89	7.906E-04	Pulse	0.30	3
Fe			2	7.101	ug/l	22.25	52,756.44	3.828E-01	Pulse	0.30	3
Co			2	0.000	ug/l	4985.26	30.97	2.246E-04	Pulse	0.30	3
Ni			2	-0.023	ug/l	-296.50	1,268.95	9.210E-03	Pulse	0.30	3
Cu			2	-0.090	ug/l	-21.57	935.59	6.790E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.674	ug/l	-51.38	8,384.46	6.085E-02	Pulse	0.30	3
As			2	0.001	ug/l	734.79	10.67	7.745E-05	Pulse	1.00	3
Cd			2	0.000	ug/l	4981.82	11.10	1.152E-05	Pulse	0.30	3
Sn			2	0.353	ug/l	1.77	474.46	4.924E-04	Pulse	0.30	3
Se			3	0.032	ug/l	35.57	8.40	6.709E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,159,337.30	3.01	100.0	Analog	0.10	3
1	Sc		3,411,551.72	3.88	100.0	Analog	0.10	3
1	Ge		678,258.34	5.50	100.0	Pulse	0.10	3
1	Ge		943,810.32	4.45	100.0	Pulse	0.10	3
1	Rh		4,968,427.12	4.72	100.0	Analog	0.10	3
1	In		5,211,201.50	4.51	100.0	Analog	0.10	3
1	Tb		7,190,548.02	3.39	100.0	Analog	0.10	3
1	Ho		7,195,399.48	3.39	100.0	Analog	0.10	3
1	Bi		4,167,481.19	4.13	100.0	Analog	0.10	3
2	Sc		137,780.11	0.41	100.0	Pulse	0.30	3
2	Ge		93,163.17	0.48	100.0	Pulse	0.30	3
2	Ge		139,601.32	0.55	100.0	Pulse	0.30	3
2	Rh		2,685,171.42	0.96	100.0	Analog	0.30	3
2	In		963,692.10	0.78	100.0	Pulse	0.30	3
2	Tb		3,847,673.60	1.43	100.0	Analog	0.30	3
2	Ho		3,872,431.52	0.63	100.0	Analog	0.30	3
2	Bi		2,492,211.22	0.98	100.0	Analog	0.30	3
3	Sc		120,445.91	0.30	100.0	Pulse	0.30	3
3	Ge		81,811.19	0.75	100.0	Pulse	0.30	3
3	Ge		125,223.21	0.56	100.0	Pulse	0.30	3
3	Rh		1,508,056.40	0.92	100.0	Analog	0.30	3
3	Tb		2,886,720.51	1.01	100.0	Analog	0.30	3

Quantitation Report

File Name	014SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:05
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.002	ug/l	-272.98	121.33	3.082E-05	Pulse	0.25	3
B			1	-0.720	ug/l	-46.48	9,776.43	2.472E-03	Pulse	0.15	3
Ca			1	-10.003	ug/l	-2.31	6,801.64	2.091E-03	Pulse	0.10	3
Sr			1	0.006	ug/l	15.76	543.36	1.147E-04	Pulse	0.10	3
Mo			1	0.007	ug/l	125.91	90.00	1.920E-05	Pulse	0.10	3
Ag			1	0.009	ug/l	11.03	33.33	6.716E-06	Pulse	0.10	3
Sn			1	-0.021	ug/l	-101.33	1,353.45	2.734E-04	Pulse	0.10	3
Sb			1	-0.009	ug/l	-188.70	463.36	6.767E-05	Pulse	0.10	3
Ba			1	0.072	ug/l	17.10	296.68	4.311E-05	Pulse	0.10	3
Tl			1	0.000	ug/l	1137.01	236.68	5.904E-05	Pulse	0.10	3
Pb			1	-0.026	ug/l	-34.71	2,783.71	6.892E-04	Pulse	0.10	3
Pb			1	0.018	ug/l	271.23	2,500.31	6.225E-04	Pulse	0.10	3
Pb			1	0.002	ug/l	823.67	11,538.90	2.862E-03	Pulse	0.10	3
Na			2	2.477	ug/l	118.92	4,240.46	3.133E-02	Pulse	0.30	3
Mg			2	0.522	ug/l	21.18	637.80	4.708E-03	Pulse	0.30	3
Al			2	-0.355	ug/l	-50.59	272.23	2.009E-03	Pulse	0.30	3
K			2	1.925	ug/l	58.66	7,992.01	5.899E-02	Pulse	0.30	3
Ca			2	3.256	ug/l	30.10	68.89	5.083E-04	Pulse	0.30	3
Ti			2	-0.028	ug/l	-176.92	2.22	1.630E-05	Pulse	0.30	3
V			2	0.004	ug/l	75.46	155.56	1.148E-03	Pulse	0.30	3
Cr			2	0.023	ug/l	51.70	192.98	1.423E-03	Pulse	0.30	3
Mn			2	0.005	ug/l	339.76	153.34	1.132E-03	Pulse	0.30	3
Fe			2	-5.299	ug/l	-13.57	17,767.54	1.312E-01	Pulse	0.30	3
Co			2	-0.002	ug/l	-140.60	19.95	1.471E-04	Pulse	0.30	3
Ni			2	0.015	ug/l	366.11	1,301.18	9.605E-03	Pulse	0.30	3
Cu			2	-0.042	ug/l	-90.42	1,107.83	8.176E-03	Pulse	0.30	3
Zn			2	-0.120	ug/l	-65.66	8,586.79	6.337E-02	Pulse	0.30	3
As			2	-0.004	ug/l	-387.49	8.67	6.403E-05	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.001	ug/l	1095.65	12.22	1.298E-05	Pulse	0.30	3
Sn			2	0.355	ug/l	0.81	470.01	4.970E-04	Pulse	0.30	3
Se			3	-0.013	ug/l	-143.08	5.93	4.795E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,966,291.07	4.76	95.4	Analog	0.10	3
1	Sc		3,251,986.83	6.57	95.3	Analog	0.10	3
1	Ge		643,294.85	6.54	94.8	Pulse	0.10	3
1	Ge		893,843.53	6.77	94.7	Pulse	0.10	3
1	Rh		4,729,165.66	6.28	95.2	Analog	0.10	3
1	In		4,976,188.62	6.23	95.5	Analog	0.10	3
1	Tb		6,923,526.98	5.52	96.3	Analog	0.10	3
1	Ho		6,889,239.90	6.36	95.7	Analog	0.10	3
1	Bi		4,035,408.90	5.41	96.8	Analog	0.10	3
2	Sc		135,497.97	0.61	98.3	Pulse	0.30	3
2	Ge		91,413.67	0.73	98.1	Pulse	0.30	3
2	Ge		137,410.02	0.74	98.4	Pulse	0.30	3
2	Rh		2,631,770.80	0.56	98.0	Analog	0.30	3
2	In		945,702.49	0.62	98.1	Pulse	0.30	3
2	Tb		3,823,395.27	0.67	99.4	Analog	0.30	3
2	Ho		3,841,964.15	0.67	99.2	Analog	0.30	3
2	Bi		2,484,390.11	0.48	99.7	Analog	0.30	3
3	Sc		117,167.22	0.64	97.3	Pulse	0.30	3
3	Ge		81,309.72	0.95	99.4	Pulse	0.30	3
3	Ge		123,682.76	0.51	98.8	Pulse	0.30	3
3	Rh		1,496,456.29	1.45	99.2	Analog	0.30	3
3	Tb		2,845,717.32	0.74	98.6	Analog	0.30	3

Quantitation Report

File Name	015_QC1.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:09
Sample Name	ICVA
Sample Type	QC1
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	59.762	ug/l	2.16	314,667.78	7.985E-02	Pulse	0.25	3
B			1	112.538	ug/l	10.18	310,699.68	7.864E-02	Pulse	0.15	3
Ca			1	5184.696	ug/l	1.45	2,810,193.08	8.412E-01	Analog	0.10	3
Sr			1	61.077	ug/l	1.66	1,517,315.71	3.310E-01	Analog	0.10	3
Mo			1	58.098	ug/l	2.34	281,020.83	6.128E-02	Pulse	0.10	3
Ag			1	60.406	ug/l	2.11	721,327.65	1.476E-01	Pulse	0.10	3
Sn			1	57.058	ug/l	2.86	450,770.58	9.224E-02	Pulse	0.10	3
Sb			1	60.275	ug/l	2.81	588,410.22	8.423E-02	Pulse	0.10	3
Ba			1	58.836	ug/l	1.56	232,008.06	3.323E-02	Pulse	0.10	3
Tl			1	62.752	ug/l	1.41	1,527,488.00	3.848E-01	Analog	0.10	3
Pb			1	60.353	ug/l	2.50	507,012.52	1.277E-01	Pulse	0.10	3
Pb			1	58.267	ug/l	2.16	427,317.28	1.076E-01	Pulse	0.10	3
Pb			1	59.429	ug/l	2.12	2,000,962.60	5.039E-01	Pulse	0.10	3
Na			2	5229.917	ug/l	1.77	3,218,131.75	2.268E+01	Analog	0.30	3
Mg			2	5407.944	ug/l	1.72	1,638,967.09	1.155E+01	Analog	0.30	3
Al			2	5276.089	ug/l	0.82	527,551.00	3.718E+00	Pulse	0.30	3
K			2	5098.289	ug/l	0.91	1,065,630.06	7.511E+00	Pulse	0.30	3
Ca			2	5239.961	ug/l	1.41	59,026.09	4.161E-01	Pulse	0.30	3
Ti			2	57.258	ug/l	2.24	4,612.92	3.250E-02	Pulse	0.30	3
V			2	57.605	ug/l	0.79	156,351.05	1.102E+00	Pulse	0.30	3
Cr			2	58.096	ug/l	0.90	198,650.83	1.400E+00	Pulse	0.30	3
Mn			2	58.502	ug/l	1.33	106,637.01	7.516E-01	Pulse	0.30	3
Fe			2	5143.687	ug/l	1.72	14,841,667.74	1.046E+02	Analog	0.30	3
Co			2	57.437	ug/l	0.45	322,647.31	2.274E+00	Pulse	0.30	3
Ni			2	57.291	ug/l	0.88	86,550.04	6.100E-01	Pulse	0.30	3
Cu			2	56.903	ug/l	0.59	234,786.66	1.655E+00	Pulse	0.30	3
Zn			2	56.541	ug/l	0.77	45,544.25	3.210E-01	Pulse	0.30	3
As			2	59.012	ug/l	1.03	20,974.42	1.478E-01	Pulse	1.00	3
Cd			2	58.460	ug/l	1.40	58,907.79	6.155E-02	Pulse	0.30	3
Sn			2	56.942	ug/l	1.31	125,346.65	1.310E-01	Pulse	0.30	3
Se			3	248.363	ug/l	0.26	13,442.57	1.059E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,938,138.65	5.03	94.7	Analog	0.10	3
1	Sc		3,340,087.35	4.52	97.9	Analog	0.10	3
1	Ge		649,853.58	6.34	95.8	Pulse	0.10	3

Quantitation Report

1	Ge		908,986.63	7.24	96.3	Pulse	0.10	3
1	Rh		4,581,869.10	5.49	92.2	Analog	0.10	3
1	In		4,882,614.59	5.13	93.7	Analog	0.10	3
1	Tb		6,977,852.39	5.88	97.0	Analog	0.10	3
1	Ho		6,948,600.52	6.00	96.6	Analog	0.10	3
1	Bi		3,967,770.46	5.08	95.2	Analog	0.10	3
2	Sc		141,891.39	1.69	103.0	Pulse	0.30	3
2	Ge		93,753.24	2.78	100.6	Pulse	0.30	3
2	Ge		141,386.89	1.12	101.3	Pulse	0.30	3
2	Rh		2,596,080.45	0.80	96.7	Analog	0.30	3
2	In		957,120.11	1.53	99.3	Pulse	0.30	3
2	Tb		3,768,214.85	0.63	97.9	Analog	0.30	3
2	Ho		3,889,714.15	1.50	100.4	Analog	0.30	3
2	Bi		2,470,801.91	0.94	99.1	Analog	0.30	3
3	Sc		122,826.11	0.52	102.0	Pulse	0.30	3
3	Ge		82,870.90	0.69	101.3	Pulse	0.30	3
3	Ge		126,921.73	0.18	101.4	Pulse	0.30	3
3	Rh		1,453,336.92	0.65	96.4	Analog	0.30	3
3	Tb		2,869,995.72	1.28	99.4	Analog	0.30	3

Quantitation Report

File Name	016SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:12
Sample Name	ICV
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.136	ug/l	118.42	820.04	2.158E-04	Pulse	0.25	3
B			1	10.570	ug/l	24.68	39,448.69	1.006E-02	Pulse	0.15	3
Ca			1	0.344	ug/l	4896.35	11,536.09	3.762E-03	Pulse	0.10	3
Sr			1	0.113	ug/l	138.69	3,064.13	6.935E-04	Pulse	0.10	3
Mo			1	0.336	ug/l	96.56	1,630.22	3.653E-04	Pulse	0.10	3
Ag			1	0.229	ug/l	120.54	2,560.61	5.457E-04	Pulse	0.10	3
Sn			1	0.694	ug/l	43.02	6,941.93	1.425E-03	Pulse	0.10	3
Sb			1	0.148	ug/l	128.15	1,896.95	2.867E-04	Pulse	0.10	3
Ba			1	0.143	ug/l	106.32	550.05	8.343E-05	Pulse	0.10	3
Tl			1	0.167	ug/l	101.09	4,161.22	1.083E-03	Pulse	0.10	3
Pb			1	0.126	ug/l	171.71	3,954.08	1.009E-03	Pulse	0.10	3
Pb			1	0.120	ug/l	149.03	3,177.17	8.098E-04	Pulse	0.10	3
Pb			1	0.119	ug/l	147.34	15,140.59	3.855E-03	Pulse	0.10	3
Na			2	0.540	ug/l	47.61	3,101.44	2.293E-02	Pulse	0.30	3
Mg			2	0.717	ug/l	28.15	693.35	5.125E-03	Pulse	0.30	3
Al			2	58.829	ug/l	2.48	5,908.88	4.369E-02	Pulse	0.30	3
K			2	1.436	ug/l	91.37	7,881.95	5.827E-02	Pulse	0.30	3
Ca			2	1.515	ug/l	103.93	50.00	3.702E-04	Pulse	0.30	3
Ti			2	0.074	ug/l	102.83	10.00	7.406E-05	Pulse	0.30	3
V			2	0.008	ug/l	243.50	164.45	1.217E-03	Pulse	0.30	3
Cr			2	0.007	ug/l	76.00	139.17	1.029E-03	Pulse	0.30	3
Mn			2	-0.013	ug/l	-94.55	123.33	9.123E-04	Pulse	0.30	3
Fe			2	3.428	ug/l	40.37	41,705.03	3.083E-01	Pulse	0.30	3
Co			2	0.004	ug/l	22.13	52.11	3.852E-04	Pulse	0.30	3
Ni			2	-0.002	ug/l	-4357.80	1,275.62	9.432E-03	Pulse	0.30	3
Cu			2	-0.038	ug/l	-25.47	1,122.28	8.299E-03	Pulse	0.30	3
Zn			2	-0.566	ug/l	-30.59	8,296.62	6.135E-02	Pulse	0.30	3
As			2	0.027	ug/l	34.26	19.33	1.430E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.006	ug/l	353.74	16.64	1.747E-05	Pulse	0.30	3
Sn			2	0.760	ug/l	7.42	1,354.52	1.431E-03	Pulse	0.30	3
Se			3	0.173	ug/l	6.49	15.93	1.272E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,941,867.55	5.38	94.8	Analog	0.10	3
1	Sc		3,182,181.20	7.88	93.3	Analog	0.10	3
1	Ge		640,161.80	5.65	94.4	Pulse	0.10	3
1	Ge		896,402.77	5.94	95.0	Pulse	0.10	3
1	Rh		4,613,742.85	5.50	92.9	Analog	0.10	3
1	In		4,937,428.43	6.17	94.7	Analog	0.10	3
1	Tb		6,870,552.81	6.36	95.5	Analog	0.10	3
1	Ho		6,813,418.44	5.37	94.7	Analog	0.10	3
1	Bi		3,985,626.30	5.81	95.6	Analog	0.10	3
2	Sc		135,237.77	0.59	98.2	Pulse	0.30	3
2	Ge		91,079.52	0.47	97.8	Pulse	0.30	3
2	Ge		138,728.71	1.18	99.4	Pulse	0.30	3
2	Rh		2,598,780.45	1.02	96.8	Analog	0.30	3
2	In		946,433.88	0.78	98.2	Pulse	0.30	3
2	Tb		3,765,008.19	1.42	97.9	Analog	0.30	3
2	Ho		3,848,476.65	1.13	99.4	Analog	0.30	3
2	Bi		2,471,944.41	1.31	99.2	Analog	0.30	3
3	Sc		117,059.08	0.47	97.2	Pulse	0.30	3
3	Ge		81,379.96	0.68	99.5	Pulse	0.30	3
3	Ge		125,256.76	1.15	100.0	Pulse	0.30	3
3	Rh		1,497,319.97	1.40	99.3	Analog	0.30	3
3	Tb		2,841,617.94	1.16	98.4	Analog	0.30	3

Quantitation Report

File Name	017BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:15
Sample Name	ICB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.002	ug/l	-69.48	121.33	3.118E-05	Pulse	0.25	3
B			1	0.474	ug/l	67.31	12,716.15	3.275E-03	Pulse	0.15	3
Ca			1	-12.632	ug/l	-3.45	5,287.74	1.666E-03	Pulse	0.10	3
Sr			1	0.001	ug/l	197.10	406.69	8.830E-05	Pulse	0.10	3
Mo			1	0.014	ug/l	74.98	120.01	2.645E-05	Pulse	0.10	3
Ag			1	0.009	ug/l	10.03	30.00	6.179E-06	Pulse	0.10	3
Sn			1	0.079	ug/l	51.54	2,103.55	4.333E-04	Pulse	0.10	3
Sb			1	-0.009	ug/l	-138.79	446.69	6.653E-05	Pulse	0.10	3
Ba			1	0.006	ug/l	117.73	40.00	5.780E-06	Pulse	0.10	3
Tl			1	0.007	ug/l	8.94	390.02	9.904E-05	Pulse	0.10	3
Pb			1	-0.024	ug/l	-38.99	2,727.01	6.932E-04	Pulse	0.10	3
Pb			1	0.030	ug/l	37.97	2,536.97	6.454E-04	Pulse	0.10	3
Pb			1	-0.005	ug/l	-145.56	11,035.34	2.804E-03	Pulse	0.10	3
Na			2	-0.455	ug/l	-68.34	2,431.32	1.862E-02	Pulse	0.30	3
Mg			2	0.262	ug/l	79.88	542.24	4.153E-03	Pulse	0.30	3
Al			2	-2.483	ug/l	-15.39	66.67	5.102E-04	Pulse	0.30	3
K			2	1.917	ug/l	107.37	7,700.77	5.898E-02	Pulse	0.30	3
Ca			2	1.141	ug/l	133.46	44.45	3.405E-04	Pulse	0.30	3
Ti			2	0.018	ug/l	143.46	5.56	4.256E-05	Pulse	0.30	3
V			2	-0.012	ug/l	-35.18	111.11	8.509E-04	Pulse	0.30	3
Cr			2	0.010	ug/l	66.45	143.06	1.096E-03	Pulse	0.30	3
Mn			2	-0.024	ug/l	-60.49	100.00	7.661E-04	Pulse	0.30	3
Fe			2	-6.478	ug/l	-9.80	14,001.67	1.072E-01	Pulse	0.30	3
Co			2	0.000	ug/l	552.02	31.07	2.381E-04	Pulse	0.30	3
Ni			2	-0.035	ug/l	-148.88	1,185.62	9.080E-03	Pulse	0.30	3
Cu			2	-0.099	ug/l	-4.99	853.37	6.535E-03	Pulse	0.30	3
Zn			2	-1.144	ug/l	-6.75	7,667.43	5.872E-02	Pulse	0.30	3
As			2	-0.007	ug/l	-85.12	7.33	5.617E-05	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.005	ug/l	164.33	15.55	1.708E-05	Pulse	0.30	3
Sn			2	0.432	ug/l	9.53	613.35	6.741E-04	Pulse	0.30	3
Se			3	0.024	ug/l	50.03	7.67	6.370E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,890,334.41	4.55	93.5	Analog	0.10	3
1	Sc		3,179,885.26	6.95	93.2	Analog	0.10	3
1	Ge		634,334.69	6.23	93.5	Pulse	0.10	3
1	Ge		877,800.85	5.99	93.0	Pulse	0.10	3
1	Rh		4,609,281.08	5.74	92.8	Analog	0.10	3
1	In		4,887,091.41	6.64	93.8	Analog	0.10	3
1	Tb		6,767,661.36	5.38	94.1	Analog	0.10	3
1	Ho		6,802,991.57	5.21	94.5	Analog	0.10	3
1	Bi		3,933,642.55	5.78	94.4	Analog	0.10	3
2	Sc		130,578.82	0.23	94.8	Pulse	0.30	3
2	Ge		87,824.14	0.39	94.3	Pulse	0.30	3
2	Ge		132,394.66	0.47	94.8	Pulse	0.30	3
2	Rh		2,505,191.08	1.04	93.3	Analog	0.30	3
2	In		909,892.19	0.11	94.4	Pulse	0.30	3
2	Tb		3,629,681.66	0.83	94.3	Analog	0.30	3
2	Ho		3,731,549.71	1.13	96.4	Analog	0.30	3
2	Bi		2,411,736.43	0.54	96.8	Analog	0.30	3
3	Sc		115,033.66	0.18	95.5	Pulse	0.30	3
3	Ge		79,073.21	0.91	96.7	Pulse	0.30	3
3	Ge		120,372.95	1.39	96.1	Pulse	0.30	3
3	Rh		1,455,870.05	1.47	96.5	Analog	0.30	3
3	Tb		2,756,647.95	0.29	95.5	Analog	0.30	3

Quantitation Report

File Name	018_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:19
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	51.606	ug/l	1.19	279,598.59	6.896E-02	Pulse	0.25	3
B			1	98.869	ug/l	6.65	281,850.44	6.945E-02	Pulse	0.15	3
Ca			1	5113.212	ug/l	1.14	2,862,829.12	8.296E-01	Analog	0.10	3
Sr			1	52.267	ug/l	1.16	1,349,934.87	2.832E-01	Analog	0.10	3
Mo			1	51.315	ug/l	0.88	257,960.92	5.413E-02	Pulse	0.10	3
Ag			1	52.119	ug/l	1.33	642,633.75	1.274E-01	Pulse	0.10	3
Sn			1	49.994	ug/l	2.10	408,003.22	8.086E-02	Pulse	0.10	3
Sb			1	52.320	ug/l	2.22	522,247.66	7.313E-02	Pulse	0.10	3
Ba			1	50.267	ug/l	1.16	202,717.57	2.839E-02	Pulse	0.10	3
Tl			1	50.194	ug/l	1.32	1,264,078.55	3.078E-01	Analog	0.10	3
Pb			1	50.658	ug/l	1.69	440,611.52	1.073E-01	Pulse	0.10	3
Pb			1	50.155	ug/l	1.61	380,826.27	9.272E-02	Pulse	0.10	3
Pb			1	50.542	ug/l	1.53	1,762,037.96	4.290E-01	Pulse	0.10	3
Na			2	5218.481	ug/l	1.10	3,147,099.46	2.264E+01	Analog	0.30	3
Mg			2	5194.289	ug/l	0.65	1,542,791.22	1.110E+01	Analog	0.30	3
Al			2	5155.489	ug/l	1.20	505,168.42	3.633E+00	Pulse	0.30	3
K			2	5125.243	ug/l	1.15	1,049,753.74	7.550E+00	Pulse	0.30	3
Ca			2	5287.150	ug/l	0.45	58,365.96	4.198E-01	Pulse	0.30	3
Ti			2	50.949	ug/l	3.28	4,021.65	2.892E-02	Pulse	0.30	3
V			2	50.434	ug/l	0.58	134,160.65	9.650E-01	Pulse	0.30	3
Cr			2	50.329	ug/l	0.50	168,657.98	1.213E+00	Pulse	0.30	3
Mn			2	50.576	ug/l	0.50	90,364.76	6.499E-01	Pulse	0.30	3
Fe			2	5170.033	ug/l	0.72	14,619,933.31	1.052E+02	Analog	0.30	3
Co			2	50.363	ug/l	1.64	277,233.75	1.994E+00	Pulse	0.30	3
Ni			2	50.156	ug/l	0.92	74,412.42	5.352E-01	Pulse	0.30	3
Cu			2	49.658	ug/l	1.20	200,941.83	1.445E+00	Pulse	0.30	3
Zn			2	48.294	ug/l	1.98	39,411.73	2.835E-01	Pulse	0.30	3
As			2	50.886	ug/l	0.73	17,723.27	1.275E-01	Pulse	1.00	3
Cd			2	51.030	ug/l	0.87	50,111.00	5.373E-02	Pulse	0.30	3
Sn			2	51.091	ug/l	0.78	109,571.02	1.175E-01	Pulse	0.30	3
Se			3	205.222	ug/l	0.67	10,864.39	8.752E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,053,697.21	2.89	97.5	Analog	0.10	3
1	Sc		3,451,808.91	4.42	101.2	Analog	0.10	3
1	Ge		669,408.80	4.98	98.7	Pulse	0.10	3

Quantitation Report

1	Ge		933,060.12	4.31	98.9	Pulse	0.10	3
1	Rh		4,764,755.45	3.75	95.9	Analog	0.10	3
1	In		5,043,758.46	3.17	96.8	Analog	0.10	3
1	Tb		7,139,392.18	3.01	99.3	Analog	0.10	3
1	Ho		7,094,444.06	3.52	98.6	Analog	0.10	3
1	Bi		4,106,827.86	3.74	98.5	Analog	0.10	3
2	Sc		139,033.26	0.31	100.9	Pulse	0.30	3
2	Ge		91,298.55	2.11	98.0	Pulse	0.30	3
2	Ge		137,668.75	0.89	98.6	Pulse	0.30	3
2	Rh		2,497,026.98	0.90	93.0	Analog	0.30	3
2	In		932,669.38	1.18	96.8	Pulse	0.30	3
2	Tb		3,736,041.24	0.23	97.1	Analog	0.30	3
2	Ho		3,808,404.57	0.50	98.3	Analog	0.30	3
2	Bi		2,413,101.57	0.65	96.8	Analog	0.30	3
3	Sc		121,970.32	1.29	101.3	Pulse	0.30	3
3	Ge		80,627.51	0.43	98.6	Pulse	0.30	3
3	Ge		124,130.61	0.22	99.1	Pulse	0.30	3
3	Rh		1,416,332.10	0.68	93.9	Analog	0.30	3
3	Tb		2,806,551.07	0.55	97.2	Analog	0.30	3

Quantitation Report

File Name	019BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:22
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.098	ug/l	119.88	638.70	1.641E-04	Pulse	0.25	3
B			1	9.179	ug/l	19.33	36,072.13	9.129E-03	Pulse	0.15	3
Ca			1	-2.927	ug/l	-486.50	10,214.92	3.234E-03	Pulse	0.10	3
Sr			1	0.084	ug/l	151.35	2,420.61	5.380E-04	Pulse	0.10	3
Mo			1	0.273	ug/l	97.44	1,366.81	2.997E-04	Pulse	0.10	3
Ag			1	0.209	ug/l	121.64	2,363.86	4.963E-04	Pulse	0.10	3
Sn			1	0.809	ug/l	35.80	7,932.41	1.610E-03	Pulse	0.10	3
Sb			1	0.185	ug/l	102.53	2,283.65	3.383E-04	Pulse	0.10	3
Ba			1	0.095	ug/l	156.69	370.03	5.607E-05	Pulse	0.10	3
Tl			1	0.216	ug/l	90.35	5,368.44	1.379E-03	Pulse	0.10	3
Pb			1	0.055	ug/l	262.51	3,417.21	8.612E-04	Pulse	0.10	3
Pb			1	0.132	ug/l	105.04	3,310.54	8.320E-04	Pulse	0.10	3
Pb			1	0.099	ug/l	130.76	14,640.32	3.680E-03	Pulse	0.10	3
Na			2	-0.458	ug/l	-38.36	2,519.11	1.861E-02	Pulse	0.30	3
Mg			2	0.151	ug/l	143.07	530.01	3.917E-03	Pulse	0.30	3
Al			2	-1.319	ug/l	-20.60	180.01	1.330E-03	Pulse	0.30	3
K			2	1.970	ug/l	41.53	7,994.22	5.906E-02	Pulse	0.30	3
Ca			2	-0.670	ug/l	-199.88	26.67	1.967E-04	Pulse	0.30	3
Ti			2	0.204	ug/l	37.34	20.00	1.478E-04	Pulse	0.30	3
V			2	-0.009	ug/l	-91.73	122.22	9.034E-04	Pulse	0.30	3
Cr			2	0.011	ug/l	96.36	153.74	1.137E-03	Pulse	0.30	3
Mn			2	-0.028	ug/l	-55.72	96.67	7.148E-04	Pulse	0.30	3
Fe			2	1.085	ug/l	103.96	35,295.64	2.607E-01	Pulse	0.30	3
Co			2	0.002	ug/l	145.24	38.79	2.863E-04	Pulse	0.30	3
Ni			2	-0.031	ug/l	-15.13	1,235.62	9.128E-03	Pulse	0.30	3
Cu			2	-0.078	ug/l	-25.82	965.59	7.134E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.971	ug/l	-16.17	8,055.40	5.950E-02	Pulse	0.30	3
As			2	0.048	ug/l	54.71	26.33	1.943E-04	Pulse	1.00	3
Cd			2	-0.005	ug/l	-126.26	5.52	5.767E-06	Pulse	0.30	3
Sn			2	0.830	ug/l	6.57	1,515.64	1.592E-03	Pulse	0.30	3
Se			3	0.281	ug/l	14.13	21.67	1.733E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,962,368.54	3.24	95.3	Analog	0.10	3
1	Sc		3,245,898.08	5.93	95.1	Analog	0.10	3
1	Ge		649,111.97	5.36	95.7	Pulse	0.10	3
1	Ge		905,748.87	5.58	96.0	Pulse	0.10	3
1	Rh		4,732,977.74	6.03	95.3	Analog	0.10	3
1	In		4,978,160.85	5.30	95.5	Analog	0.10	3
1	Tb		6,945,599.27	5.57	96.6	Analog	0.10	3
1	Ho		6,943,680.94	5.12	96.5	Analog	0.10	3
1	Bi		4,022,602.02	5.74	96.5	Analog	0.10	3
2	Sc		135,369.81	0.59	98.3	Pulse	0.30	3
2	Ge		90,837.35	0.78	97.5	Pulse	0.30	3
2	Ge		137,557.68	1.23	98.5	Pulse	0.30	3
2	Rh		2,618,559.06	0.89	97.5	Analog	0.30	3
2	In		951,680.35	0.78	98.8	Pulse	0.30	3
2	Tb		3,765,886.93	0.61	97.9	Analog	0.30	3
2	Ho		3,843,279.71	0.73	99.2	Analog	0.30	3
2	Bi		2,496,172.12	1.25	100.2	Analog	0.30	3
3	Sc		118,162.17	0.30	98.1	Pulse	0.30	3
3	Ge		81,764.31	0.76	99.9	Pulse	0.30	3
3	Ge		124,938.97	1.22	99.8	Pulse	0.30	3
3	Rh		1,501,192.61	1.19	99.5	Analog	0.30	3
3	Tb		2,853,364.47	0.45	98.8	Analog	0.30	3

Quantitation Report

File Name	020SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:25
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.001	ug/l	62.29	137.33	3.486E-05	Pulse	0.25	3
B			1	0.519	ug/l	67.13	12,991.98	3.305E-03	Pulse	0.15	3
Ca			1	-9.941	ug/l	-4.86	6,768.32	2.101E-03	Pulse	0.10	3
Sr			1	0.006	ug/l	45.82	536.70	1.139E-04	Pulse	0.10	3
Mo			1	0.015	ug/l	73.05	126.67	2.707E-05	Pulse	0.10	3
Ag			1	0.011	ug/l	13.38	56.67	1.140E-05	Pulse	0.10	3
Sn			1	0.137	ug/l	51.74	2,617.00	5.271E-04	Pulse	0.10	3
Sb			1	-0.010	ug/l	-33.59	460.02	6.609E-05	Pulse	0.10	3
Ba			1	0.064	ug/l	31.20	273.35	3.887E-05	Pulse	0.10	3
Tl			1	0.008	ug/l	26.87	436.69	1.078E-04	Pulse	0.10	3
Pb			1	-0.017	ug/l	-57.71	2,873.72	7.090E-04	Pulse	0.10	3
Pb			1	0.003	ug/l	382.57	2,420.29	5.961E-04	Pulse	0.10	3
Pb			1	-0.002	ug/l	-787.70	11,492.24	2.835E-03	Pulse	0.10	3
Na			2	0.345	ug/l	41.05	3,004.75	2.209E-02	Pulse	0.30	3
Mg			2	0.372	ug/l	55.11	596.69	4.389E-03	Pulse	0.30	3
Al			2	-1.050	ug/l	-15.60	206.67	1.520E-03	Pulse	0.30	3
K			2	2.743	ug/l	30.94	8,185.44	6.019E-02	Pulse	0.30	3
Ca			2	3.538	ug/l	39.41	72.22	5.307E-04	Pulse	0.30	3
Ti			2	-0.028	ug/l	-89.15	2.22	1.636E-05	Pulse	0.30	3
V			2	0.002	ug/l	653.52	152.23	1.119E-03	Pulse	0.30	3
Cr			2	0.017	ug/l	41.19	173.04	1.273E-03	Pulse	0.30	3
Mn			2	-0.003	ug/l	-231.66	141.11	1.037E-03	Pulse	0.30	3
Fe			2	-6.411	ug/l	-7.54	14,779.01	1.086E-01	Pulse	0.30	3
Co			2	-0.002	ug/l	-64.19	22.18	1.632E-04	Pulse	0.30	3
Ni			2	0.021	ug/l	423.57	1,315.62	9.670E-03	Pulse	0.30	3
Cu			2	-0.056	ug/l	-25.29	1,054.49	7.753E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	0.042	ug/l	707.42	8,720.20	6.411E-02	Pulse	0.30	3
As			2	0.022	ug/l	29.76	17.67	1.300E-04	Pulse	1.00	3
Cd			2	-0.003	ug/l	-118.15	7.77	8.081E-06	Pulse	0.30	3
Sn			2	0.459	ug/l	7.07	711.14	7.382E-04	Pulse	0.30	3
Se			3	0.036	ug/l	36.04	8.67	6.875E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,936,909.28	3.95	94.7	Analog	0.10	3
1	Sc		3,226,481.52	5.81	94.6	Analog	0.10	3
1	Ge		642,386.93	6.14	94.7	Pulse	0.10	3
1	Ge		896,424.80	6.85	95.0	Pulse	0.10	3
1	Rh		4,728,373.99	5.86	95.2	Analog	0.10	3
1	In		5,006,816.54	6.32	96.1	Analog	0.10	3
1	Tb		6,976,814.27	5.23	97.0	Analog	0.10	3
1	Ho		6,949,173.65	5.86	96.6	Analog	0.10	3
1	Bi		4,056,503.17	5.34	97.3	Analog	0.10	3
2	Sc		136,013.54	0.80	98.7	Pulse	0.30	3
2	Ge		92,306.26	1.16	99.1	Pulse	0.30	3
2	Ge		138,854.43	1.09	99.5	Pulse	0.30	3
2	Rh		2,662,193.92	1.21	99.1	Analog	0.30	3
2	In		963,167.33	1.07	99.9	Pulse	0.30	3
2	Tb		3,835,632.63	0.89	99.7	Analog	0.30	3
2	Ho		3,928,183.74	0.94	101.4	Analog	0.30	3
2	Bi		2,552,688.09	1.24	102.4	Analog	0.30	3
3	Sc		120,326.54	0.77	99.9	Pulse	0.30	3
3	Ge		82,819.28	1.21	101.2	Pulse	0.30	3
3	Ge		126,137.93	1.20	100.7	Pulse	0.30	3
3	Rh		1,521,296.15	0.79	100.9	Analog	0.30	3
3	Tb		2,885,294.82	0.91	100.0	Analog	0.30	3

Quantitation Report

File Name	021_QC3.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:29
Sample Name	CRI
Sample Type	QC3
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.516	ug/l	3.55	2,854.95	7.234E-04	Pulse	0.25	3
B			1	26.533	ug/l	4.94	82,093.10	2.080E-02	Pulse	0.15	3
Ca			1	235.235	ug/l	0.28	133,516.78	4.170E-02	Pulse	0.10	3
Sr			1	4.862	ug/l	0.69	123,136.34	2.642E-02	Pulse	0.10	3
Mo			1	0.992	ug/l	9.99	4,930.96	1.058E-03	Pulse	0.10	3
Ag			1	0.458	ug/l	4.06	5,497.86	1.103E-03	Pulse	0.10	3
Sn			1	4.755	ug/l	1.67	39,651.09	7.967E-03	Pulse	0.10	3
Sb			1	1.862	ug/l	3.23	18,581.69	2.680E-03	Pulse	0.10	3
Ba			1	1.015	ug/l	3.05	3,990.66	5.756E-04	Pulse	0.10	3
Tl			1	0.494	ug/l	1.97	12,519.13	3.090E-03	Pulse	0.10	3
Pb			1	0.476	ug/l	7.45	7,075.28	1.746E-03	Pulse	0.10	3
Pb			1	0.537	ug/l	6.76	6,384.93	1.578E-03	Pulse	0.10	3
Pb			1	0.498	ug/l	3.22	28,545.08	7.046E-03	Pulse	0.10	3
Na			2	243.385	ug/l	1.11	147,790.75	1.075E+00	Pulse	0.30	3
Mg			2	237.210	ug/l	2.28	70,114.16	5.102E-01	Pulse	0.30	3
Al			2	24.662	ug/l	6.40	2,696.92	1.963E-02	Pulse	0.30	3
K			2	245.252	ug/l	0.33	57,012.05	4.148E-01	Pulse	0.30	3
Ca			2	255.675	ug/l	3.07	2,822.50	2.054E-02	Pulse	0.30	3
Ti			2	0.913	ug/l	23.80	75.56	5.500E-04	Pulse	0.30	3
V			2	1.025	ug/l	0.75	2,841.39	2.067E-02	Pulse	0.30	3
Cr			2	1.019	ug/l	4.63	3,490.96	2.541E-02	Pulse	0.30	3
Mn			2	1.004	ug/l	5.64	1,916.80	1.395E-02	Pulse	0.30	3
Fe			2	18.159	ug/l	2.42	83,461.10	6.072E-01	Pulse	0.30	3
Co			2	0.495	ug/l	3.18	2,722.25	1.980E-02	Pulse	0.30	3
Ni			2	1.038	ug/l	5.09	2,794.72	2.034E-02	Pulse	0.30	3
Cu			2	2.000	ug/l	1.77	9,238.24	6.721E-02	Pulse	0.30	3
Zn			2	6.125	ug/l	4.53	12,611.63	9.176E-02	Pulse	0.30	3
As			2	0.564	ug/l	8.65	204.33	1.488E-03	Pulse	1.00	3
Cd			2	0.459	ug/l	9.68	476.32	4.945E-04	Pulse	0.30	3
Sn			2	5.104	ug/l	1.76	11,029.53	1.145E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.507	ug/l	14.27	33.87	2.695E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,941,751.61	5.16	94.8	Analog	0.10	3
1	Sc		3,201,807.55	6.77	93.9	Analog	0.10	3
1	Ge		640,487.32	6.37	94.4	Pulse	0.10	3
1	Ge		883,478.16	6.16	93.6	Pulse	0.10	3
1	Rh		4,661,327.12	6.71	93.8	Analog	0.10	3
1	In		4,973,898.97	6.28	95.4	Analog	0.10	3
1	Tb		6,930,860.94	5.10	96.4	Analog	0.10	3
1	Ho		6,947,237.82	6.52	96.6	Analog	0.10	3
1	Bi		4,054,428.38	6.20	97.3	Analog	0.10	3
2	Sc		137,450.94	1.19	99.8	Pulse	0.30	3
2	Ge		92,715.22	0.87	99.5	Pulse	0.30	3
2	Ge		139,578.24	0.68	100.0	Pulse	0.30	3
2	Rh		2,683,588.09	0.23	99.9	Analog	0.30	3
2	In		963,444.39	0.55	100.0	Pulse	0.30	3
2	Tb		3,896,469.01	0.30	101.3	Analog	0.30	3
2	Ho		3,947,965.96	0.92	102.0	Analog	0.30	3
2	Bi		2,555,640.94	1.66	102.5	Analog	0.30	3
3	Sc		119,586.48	0.38	99.3	Pulse	0.30	3
3	Ge		83,424.55	0.78	102.0	Pulse	0.30	3
3	Ge		125,667.30	0.45	100.4	Pulse	0.30	3
3	Rh		1,528,771.23	0.52	101.4	Analog	0.30	3
3	Tb		2,911,929.19	1.15	100.9	Analog	0.30	3

Quantitation Report

File Name	022_QC4.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:32
Sample Name	ICSA
Sample Type	QC4
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.007	ug/l	73.41	161.33	4.308E-05	Pulse	0.25	3
B			1	2.624	ug/l	30.53	17,698.41	4.721E-03	Pulse	0.15	3
Ca			1	83059.411	ug/l	4.08	46,935,614.30	1.342E+01	Analog	0.10	3
Sr			1	2030.962	ug/l	1.67	45,835,217.65	1.100E+01	Analog	0.10	3
Mo			1	2052.668	ug/l	2.10	9,020,733.20	2.165E+00	Analog	0.10	3
Ag			1	0.043	ug/l	5.24	400.02	9.060E-05	Pulse	0.10	3
Sn			1	1903.425	ug/l	1.02	13,523,340.21	3.067E+00	Analog	0.10	3
Sb			1	0.101	ug/l	27.04	1,496.79	2.212E-04	Pulse	0.10	3
Ba			1	0.569	ug/l	0.31	2,206.91	3.238E-04	Pulse	0.10	3
Tl			1	0.011	ug/l	36.27	466.69	1.283E-04	Pulse	0.10	3
Pb			1	0.159	ug/l	7.10	3,950.68	1.079E-03	Pulse	0.10	3
Pb			1	0.207	ug/l	8.38	3,553.90	9.709E-04	Pulse	0.10	3
Pb			1	0.169	ug/l	3.97	15,643.81	4.275E-03	Pulse	0.10	3
Na			2	86752.936	ug/l	1.90	51,396,009.07	3.760E+02	Analog	0.30	3
Mg			2	84307.088	ug/l	1.37	24,614,200.69	1.801E+02	Analog	0.30	3
Al			2	89971.827	ug/l	1.17	8,663,468.54	6.337E+01	Analog	0.30	3
K			2	88423.965	ug/l	1.15	17,683,654.85	1.293E+02	Analog	0.30	3
Ca			2	92942.019	ug/l	0.81	1,008,315.86	7.375E+00	Pulse	0.30	3
Ti			2	1778.348	ug/l	0.76	137,875.15	1.008E+00	Pulse	0.30	3
V			2	0.017	ug/l	53.95	192.23	1.406E-03	Pulse	0.30	3
Cr			2	0.444	ug/l	9.54	1,582.44	1.157E-02	Pulse	0.30	3
Mn			2	0.464	ug/l	9.20	960.04	7.026E-03	Pulse	0.30	3
Fe			2	86136.713	ug/l	0.85	238,998,337.17	1.748E+03	Analog	0.30	3
Co			2	0.055	ug/l	13.31	328.08	2.398E-03	Pulse	0.30	3
Ni			2	0.901	ug/l	17.62	2,582.46	1.889E-02	Pulse	0.30	3
Cu			2	-0.029	ug/l	-76.47	1,170.06	8.561E-03	Pulse	0.30	3
Zn			2	0.951	ug/l	35.04	9,329.41	6.824E-02	Pulse	0.30	3
As			2	0.064	ug/l	31.21	32.00	2.343E-04	Pulse	1.00	3
Cd			2	-0.291	ug/l	-6.73	-234.51	-2.947E-04	Pulse	0.30	3
Sn			2	2050.570	ug/l	0.97	3,760,804.57	4.728E+00	Analog	0.30	3
Se			3	0.117	ug/l	39.51	11.60	1.031E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,757,702.83	3.33	90.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,494,765.68	2.73	102.4	Analog	0.10	3
1	Ge		612,069.40	6.91	90.2	Pulse	0.10	3
1	Ge		833,475.59	6.20	88.3	Pulse	0.10	3
1	Rh		4,164,311.29	6.41	83.8	Analog	0.10	3
1	In		4,407,316.05	5.86	84.6	Analog	0.10	3
1	Tb		6,814,161.98	6.54	94.8	Analog	0.10	3
1	Ho		6,854,970.73	6.69	95.3	Analog	0.10	3
1	Bi		3,660,908.38	5.31	87.8	Analog	0.10	3
2	Sc		136,719.85	1.05	99.2	Pulse	0.30	3
2	Ge		82,574.93	2.75	88.6	Pulse	0.30	3
2	Ge		125,152.61	0.81	89.7	Pulse	0.30	3
2	Rh		2,236,202.06	0.32	83.3	Analog	0.30	3
2	In		795,496.21	0.58	82.5	Pulse	0.30	3
2	Tb		3,632,986.39	0.22	94.4	Analog	0.30	3
2	Ho		3,717,264.99	0.71	96.0	Analog	0.30	3
2	Bi		2,181,354.71	0.65	87.5	Analog	0.30	3
3	Sc		122,467.25	0.85	101.7	Pulse	0.30	3
3	Ge		75,099.03	0.46	91.8	Pulse	0.30	3
3	Ge		112,695.57	1.36	90.0	Pulse	0.30	3
3	Rh		1,183,751.45	0.53	78.5	Pulse	0.30	3
3	Tb		2,705,463.99	0.91	93.7	Analog	0.30	3

Quantitation Report

File Name	023_QC5.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:35
Sample Name	ICSAB
Sample Type	QC5
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.002	ug/l	-595.66	112.00	3.114E-05	Pulse	0.25	3
B			1	54.638	ug/l	2.66	141,268.53	3.970E-02	Pulse	0.15	3
Ca			1	92277.707	ug/l	0.84	46,122,155.98	1.491E+01	Analog	0.10	3
Sr			1	2101.468	ug/l	0.22	46,152,694.31	1.138E+01	Analog	0.10	3
Mo			1	2110.327	ug/l	1.53	9,025,630.49	2.226E+00	Analog	0.10	3
Ag			1	19.837	ug/l	2.59	211,005.82	4.847E-02	Pulse	0.10	3
Sn			1	1947.477	ug/l	0.62	13,651,986.46	3.138E+00	Analog	0.10	3
Sb			1	0.073	ug/l	37.39	1,216.76	1.812E-04	Pulse	0.10	3
Ba			1	0.640	ug/l	6.71	2,463.63	3.643E-04	Pulse	0.10	3
Tl			1	0.006	ug/l	55.36	343.35	9.505E-05	Pulse	0.10	3
Pb			1	0.196	ug/l	16.64	4,204.12	1.156E-03	Pulse	0.10	3
Pb			1	0.216	ug/l	12.05	3,580.56	9.875E-04	Pulse	0.10	3
Pb			1	0.206	ug/l	2.68	16,657.65	4.587E-03	Pulse	0.10	3
Na			2	90728.623	ug/l	0.76	50,458,938.00	3.932E+02	Analog	0.30	3
Mg			2	88019.485	ug/l	1.04	24,123,274.04	1.880E+02	Analog	0.30	3
Al			2	93699.890	ug/l	1.03	8,469,553.83	6.600E+01	Analog	0.30	3
K			2	92061.341	ug/l	0.97	17,281,958.76	1.347E+02	Analog	0.30	3
Ca			2	97278.505	ug/l	0.34	990,668.43	7.720E+00	Pulse	0.30	3
Ti			2	1858.371	ug/l	0.98	135,249.90	1.054E+00	Pulse	0.30	3
V			2	20.275	ug/l	1.04	49,862.40	3.886E-01	Pulse	0.30	3
Cr			2	21.953	ug/l	1.22	67,967.21	5.296E-01	Pulse	0.30	3
Mn			2	20.107	ug/l	0.64	33,244.57	2.590E-01	Pulse	0.30	3
Fe			2	90052.089	ug/l	0.94	234,543,857.35	1.828E+03	Analog	0.30	3
Co			2	19.337	ug/l	0.55	98,265.12	7.657E-01	Pulse	0.30	3
Ni			2	19.365	ug/l	2.10	27,261.54	2.124E-01	Pulse	0.30	3
Cu			2	18.131	ug/l	0.45	68,483.90	5.336E-01	Pulse	0.30	3
Zn			2	22.041	ug/l	1.00	21,062.54	1.641E-01	Pulse	0.30	3
As			2	19.123	ug/l	2.02	6,153.18	4.795E-02	Pulse	1.00	3
Cd			2	20.299	ug/l	3.25	16,928.06	2.138E-02	Pulse	0.30	3
Sn			2	2028.008	ug/l	0.87	3,702,339.02	4.676E+00	Analog	0.30	3
Se			3	21.409	ug/l	1.53	1,044.50	9.179E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,556,164.77	3.87	85.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,092,983.08	5.38	90.7	Analog	0.10	3
1	Ge		599,479.16	5.82	88.4	Pulse	0.10	3
1	Ge		814,860.85	5.87	86.3	Pulse	0.10	3
1	Rh		4,053,743.79	4.82	81.6	Analog	0.10	3
1	In		4,349,568.07	4.69	83.5	Analog	0.10	3
1	Tb		6,755,980.31	4.67	94.0	Analog	0.10	3
1	Ho		6,798,198.65	5.39	94.5	Analog	0.10	3
1	Bi		3,630,300.47	3.76	87.1	Analog	0.10	3
2	Sc		128,333.24	0.56	93.1	Pulse	0.30	3
2	Ge		82,475.21	0.98	88.5	Pulse	0.30	3
2	Ge		124,136.24	1.52	88.9	Pulse	0.30	3
2	Rh		2,218,318.04	0.28	82.6	Analog	0.30	3
2	In		791,855.23	0.79	82.2	Pulse	0.30	3
2	Tb		3,620,646.11	1.38	94.1	Analog	0.30	3
2	Ho		3,702,336.66	0.95	95.6	Analog	0.30	3
2	Bi		2,169,539.15	0.25	87.1	Analog	0.30	3
3	Sc		115,460.21	0.87	95.9	Pulse	0.30	3
3	Ge		75,300.12	0.68	92.0	Pulse	0.30	3
3	Ge		113,792.94	0.86	90.9	Pulse	0.30	3
3	Rh		1,201,761.97	0.05	79.7	Pulse	0.30	3
3	Tb		2,745,822.25	0.90	95.1	Analog	0.30	3

Quantitation Report

File Name	024SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:39
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.006	ug/l	-111.01	90.67	2.565E-05	Pulse	0.25	3
B			1	-0.116	ug/l	-375.23	10,138.84	2.878E-03	Pulse	0.15	3
Ca			1	119.290	ug/l	159.27	66,907.77	2.298E-02	Pulse	0.10	3
Sr			1	2.709	ug/l	147.44	62,514.10	1.476E-02	Pulse	0.10	3
Mo			1	5.599	ug/l	104.73	25,490.49	5.916E-03	Pulse	0.10	3
Ag			1	0.072	ug/l	94.48	740.06	1.603E-04	Pulse	0.10	3
Sn			1	3.575	ug/l	120.95	27,926.40	6.067E-03	Pulse	0.10	3
Sb			1	-0.019	ug/l	-87.32	350.02	5.232E-05	Pulse	0.10	3
Ba			1	0.080	ug/l	22.01	326.68	4.784E-05	Pulse	0.10	3
Tl			1	-0.003	ug/l	-39.40	160.01	4.069E-05	Pulse	0.10	3
Pb			1	-0.007	ug/l	-433.54	2,870.40	7.295E-04	Pulse	0.10	3
Pb			1	0.018	ug/l	132.34	2,450.29	6.235E-04	Pulse	0.10	3
Pb			1	0.006	ug/l	222.23	11,395.49	2.898E-03	Pulse	0.10	3
Na			2	9.606	ug/l	10.78	7,736.33	6.222E-02	Pulse	0.30	3
Mg			2	1.620	ug/l	19.02	876.70	7.053E-03	Pulse	0.30	3
Al			2	8.206	ug/l	0.98	1,000.04	8.039E-03	Pulse	0.30	3
K			2	1.315	ug/l	109.16	7,226.07	5.810E-02	Pulse	0.30	3
Ca			2	3.159	ug/l	33.99	62.22	5.006E-04	Pulse	0.30	3
Ti			2	2.729	ug/l	27.51	196.67	1.580E-03	Pulse	0.30	3
V			2	-0.014	ug/l	-60.70	101.11	8.132E-04	Pulse	0.30	3
Cr			2	0.013	ug/l	74.38	145.56	1.169E-03	Pulse	0.30	3
Mn			2	0.001	ug/l	1088.21	134.45	1.081E-03	Pulse	0.30	3
Fe			2	39.574	ug/l	9.55	129,686.64	1.042E+00	Pulse	0.30	3
Co			2	-0.001	ug/l	-181.12	22.98	1.845E-04	Pulse	0.30	3
Ni			2	0.013	ug/l	180.64	1,193.39	9.591E-03	Pulse	0.30	3
Cu			2	-0.091	ug/l	-16.63	841.14	6.758E-03	Pulse	0.30	3
Zn			2	0.307	ug/l	138.03	8,124.32	6.532E-02	Pulse	0.30	3
As			2	-0.004	ug/l	-273.18	8.00	6.429E-05	Pulse	1.00	3
Cd			2	-0.006	ug/l	-31.95	4.18	4.655E-06	Pulse	0.30	3
Sn			2	1.039	ug/l	10.38	1,865.69	2.074E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	-0.019	ug/l	-120.87	5.40	4.544E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,530,635.54	3.29	84.9	Analog	0.10	3
1	Sc		3,036,953.08	4.85	89.0	Analog	0.10	3
1	Ge		606,199.77	4.60	89.4	Pulse	0.10	3
1	Ge		851,381.44	5.24	90.2	Pulse	0.10	3
1	Rh		4,497,221.81	6.19	90.5	Analog	0.10	3
1	In		4,795,404.77	5.65	92.0	Analog	0.10	3
1	Tb		6,787,003.86	5.19	94.4	Analog	0.10	3
1	Ho		6,794,684.27	4.81	94.4	Analog	0.10	3
1	Bi		3,936,813.90	4.88	94.5	Analog	0.10	3
2	Sc		124,404.42	1.35	90.3	Pulse	0.30	3
2	Ge		84,975.89	1.23	91.2	Pulse	0.30	3
2	Ge		128,096.41	1.48	91.8	Pulse	0.30	3
2	Rh		2,516,791.84	0.96	93.7	Analog	0.30	3
2	In		899,043.51	0.68	93.3	Pulse	0.30	3
2	Tb		3,698,347.49	1.30	96.1	Analog	0.30	3
2	Ho		3,732,780.83	1.54	96.4	Analog	0.30	3
2	Bi		2,437,409.00	1.02	97.8	Analog	0.30	3
3	Sc		111,769.69	0.84	92.8	Pulse	0.30	3
3	Ge		77,390.70	0.75	94.6	Pulse	0.30	3
3	Ge		118,920.07	0.71	95.0	Pulse	0.30	3
3	Rh		1,449,879.56	1.05	96.1	Analog	0.30	3
3	Tb		2,819,363.43	0.68	97.7	Analog	0.30	3

Quantitation Report

File Name	025_QC3.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:42
Sample Name	CRI
Sample Type	QC3
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.490	ug/l	4.78	2,460.21	6.883E-04	Pulse	0.25	3
B			1	26.617	ug/l	6.42	74,561.04	2.086E-02	Pulse	0.15	3
Ca			1	236.840	ug/l	1.22	128,289.70	4.196E-02	Pulse	0.10	3
Sr			1	4.943	ug/l	0.70	123,108.98	2.686E-02	Pulse	0.10	3
Mo			1	1.248	ug/l	3.65	6,078.02	1.328E-03	Pulse	0.10	3
Ag			1	0.492	ug/l	3.63	5,777.93	1.188E-03	Pulse	0.10	3
Sn			1	4.933	ug/l	1.66	40,095.35	8.255E-03	Pulse	0.10	3
Sb			1	1.878	ug/l	2.28	18,531.48	2.701E-03	Pulse	0.10	3
Ba			1	0.976	ug/l	7.26	3,803.93	5.536E-04	Pulse	0.10	3
Tl			1	0.486	ug/l	2.43	12,285.48	3.037E-03	Pulse	0.10	3
Pb			1	0.487	ug/l	9.91	7,162.02	1.769E-03	Pulse	0.10	3
Pb			1	0.488	ug/l	4.05	6,008.11	1.487E-03	Pulse	0.10	3
Pb			1	0.490	ug/l	4.90	28,238.42	6.982E-03	Pulse	0.10	3
Na			2	247.160	ug/l	1.25	136,699.04	1.092E+00	Pulse	0.30	3
Mg			2	239.149	ug/l	1.17	64,403.84	5.143E-01	Pulse	0.30	3
Al			2	26.585	ug/l	10.08	2,629.13	2.098E-02	Pulse	0.30	3
K			2	246.793	ug/l	1.23	52,225.56	4.170E-01	Pulse	0.30	3
Ca			2	259.191	ug/l	0.50	2,606.90	2.082E-02	Pulse	0.30	3
Ti			2	1.553	ug/l	18.92	114.45	9.127E-04	Pulse	0.30	3
V			2	1.050	ug/l	6.47	2,646.91	2.113E-02	Pulse	0.30	3
Cr			2	1.060	ug/l	3.07	3,305.94	2.640E-02	Pulse	0.30	3
Mn			2	1.011	ug/l	5.16	1,757.89	1.404E-02	Pulse	0.30	3
Fe			2	26.595	ug/l	5.99	97,506.75	7.784E-01	Pulse	0.30	3
Co			2	0.480	ug/l	10.11	2,407.73	1.923E-02	Pulse	0.30	3
Ni			2	1.034	ug/l	13.09	2,540.23	2.029E-02	Pulse	0.30	3
Cu			2	1.984	ug/l	1.97	8,358.87	6.675E-02	Pulse	0.30	3
Zn			2	6.580	ug/l	10.17	11,749.90	9.383E-02	Pulse	0.30	3
As			2	0.485	ug/l	6.58	161.33	1.289E-03	Pulse	1.00	3
Cd			2	0.440	ug/l	8.46	434.08	4.741E-04	Pulse	0.30	3
Sn			2	5.353	ug/l	1.22	11,002.84	1.202E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.448	ug/l	14.14	29.60	2.444E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,570,001.52	4.06	85.8	Analog	0.10	3
1	Sc		3,056,296.72	5.79	89.6	Analog	0.10	3
1	Ge		614,095.41	5.69	90.5	Pulse	0.10	3
1	Ge		858,481.19	5.58	91.0	Pulse	0.10	3
1	Rh		4,581,763.68	5.09	92.2	Analog	0.10	3
1	In		4,860,183.74	5.74	93.3	Analog	0.10	3
1	Tb		6,858,030.31	4.68	95.4	Analog	0.10	3
1	Ho		6,859,082.19	4.93	95.3	Analog	0.10	3
1	Bi		4,041,747.33	4.80	97.0	Analog	0.10	3
2	Sc		125,230.74	1.06	90.9	Pulse	0.30	3
2	Ge		85,786.77	0.54	92.1	Pulse	0.30	3
2	Ge		130,960.98	0.50	93.8	Pulse	0.30	3
2	Rh		2,538,478.86	0.92	94.5	Analog	0.30	3
2	In		915,130.85	0.99	95.0	Pulse	0.30	3
2	Tb		3,756,870.13	0.19	97.6	Analog	0.30	3
2	Ho		3,817,567.49	0.92	98.6	Analog	0.30	3
2	Bi		2,467,790.25	0.49	99.0	Analog	0.30	3
3	Sc		112,866.97	0.98	93.7	Pulse	0.30	3
3	Ge		79,001.73	0.98	96.6	Pulse	0.30	3
3	Ge		121,161.76	0.41	96.8	Pulse	0.30	3
3	Rh		1,469,155.46	0.96	97.4	Analog	0.30	3
3	Tb		2,841,430.93	1.09	98.4	Analog	0.30	3

Quantitation Report

File Name	026_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:45
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	51.295	ug/l	1.76	251,349.85	6.854E-02	Pulse	0.25	3
B			1	97.190	ug/l	9.17	250,975.04	6.832E-02	Pulse	0.15	3
Ca			1	5179.529	ug/l	0.41	2,693,027.98	8.404E-01	Analog	0.10	3
Sr			1	51.890	ug/l	1.50	1,283,408.86	2.812E-01	Analog	0.10	3
Mo			1	51.468	ug/l	1.15	247,798.79	5.429E-02	Pulse	0.10	3
Ag			1	51.890	ug/l	2.69	615,928.86	1.268E-01	Pulse	0.10	3
Sn			1	50.524	ug/l	2.41	396,809.50	8.171E-02	Pulse	0.10	3
Sb			1	51.690	ug/l	1.21	507,791.75	7.225E-02	Pulse	0.10	3
Ba			1	49.267	ug/l	0.87	195,558.60	2.783E-02	Pulse	0.10	3
Tl			1	50.801	ug/l	1.69	1,258,262.64	3.115E-01	Mix	0.10	3
Pb			1	50.637	ug/l	0.98	433,065.96	1.072E-01	Pulse	0.10	3
Pb			1	50.094	ug/l	1.13	373,976.82	9.261E-02	Pulse	0.10	3
Pb			1	50.478	ug/l	1.56	1,730,543.88	4.285E-01	Pulse	0.10	3
Na			2	5188.026	ug/l	0.58	2,960,175.23	2.250E+01	Analog	0.30	3
Mg			2	5167.386	ug/l	1.50	1,452,024.53	1.104E+01	Analog	0.30	3
Al			2	5101.885	ug/l	0.29	472,998.75	3.596E+00	Pulse	0.30	3
K			2	5053.758	ug/l	0.52	979,457.57	7.446E+00	Pulse	0.30	3
Ca			2	5239.273	ug/l	0.90	54,724.86	4.160E-01	Pulse	0.30	3
Ti			2	51.302	ug/l	8.04	3,830.49	2.912E-02	Pulse	0.30	3
V			2	51.071	ug/l	0.41	128,548.59	9.771E-01	Pulse	0.30	3
Cr			2	50.820	ug/l	0.83	161,132.83	1.225E+00	Pulse	0.30	3
Mn			2	50.228	ug/l	0.72	84,909.39	6.455E-01	Pulse	0.30	3
Fe			2	5234.473	ug/l	0.44	14,004,698.33	1.065E+02	Analog	0.30	3
Co			2	50.732	ug/l	0.14	264,235.58	2.009E+00	Pulse	0.30	3
Ni			2	49.759	ug/l	1.04	69,852.65	5.310E-01	Pulse	0.30	3
Cu			2	50.238	ug/l	0.55	192,325.13	1.462E+00	Pulse	0.30	3
Zn			2	48.434	ug/l	0.72	37,372.66	2.841E-01	Pulse	0.30	3
As			2	51.603	ug/l	0.48	17,004.51	1.293E-01	Pulse	1.00	3
Cd			2	50.515	ug/l	1.63	49,187.59	5.318E-02	Pulse	0.30	3
Sn			2	50.737	ug/l	1.31	107,903.91	1.167E-01	Pulse	0.30	3
Se			3	201.359	ug/l	0.94	10,578.08	8.588E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,665,354.05	3.95	88.1	Analog	0.10	3
1	Sc		3,204,636.10	4.77	93.9	Analog	0.10	3
1	Ge		633,814.73	5.28	93.4	Pulse	0.10	3

Quantitation Report

1	Ge		886,755.72	6.44	94.0	Pulse	0.10	3
1	Rh		4,563,010.25	5.02	91.8	Analog	0.10	3
1	In		4,853,012.39	4.48	93.1	Analog	0.10	3
1	Tb		7,026,273.65	5.00	97.7	Analog	0.10	3
1	Ho		7,020,545.10	5.46	97.6	Analog	0.10	3
1	Bi		4,037,013.38	4.54	96.9	Analog	0.10	3
2	Sc		131,551.92	1.57	95.5	Pulse	0.30	3
2	Ge		88,401.58	1.30	94.9	Pulse	0.30	3
2	Ge		134,390.74	1.71	96.3	Pulse	0.30	3
2	Rh		2,496,880.46	1.03	93.0	Analog	0.30	3
2	In		924,999.34	1.57	96.0	Pulse	0.30	3
2	Tb		3,755,533.32	1.11	97.6	Analog	0.30	3
2	Ho		3,820,071.93	1.58	98.6	Analog	0.30	3
2	Bi		2,442,336.08	0.53	98.0	Analog	0.30	3
3	Sc		116,932.31	0.47	97.1	Pulse	0.30	3
3	Ge		80,682.21	0.38	98.6	Pulse	0.30	3
3	Ge		123,179.88	0.56	98.4	Pulse	0.30	3
3	Rh		1,455,494.84	0.20	96.5	Analog	0.30	3
3	Tb		2,865,143.77	0.40	99.3	Analog	0.30	3

Quantitation Report

File Name	027BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:49
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.069	ug/l	110.30	457.35	1.253E-04	Pulse	0.25	3
B			1	8.139	ug/l	24.47	31,233.70	8.430E-03	Pulse	0.15	3
Ca			1	-6.719	ug/l	-149.65	8,016.25	2.621E-03	Pulse	0.10	3
Sr			1	0.062	ug/l	152.17	1,860.33	4.178E-04	Pulse	0.10	3
Mo			1	0.290	ug/l	72.08	1,440.16	3.174E-04	Pulse	0.10	3
Ag			1	0.147	ug/l	116.60	1,636.94	3.452E-04	Pulse	0.10	3
Sn			1	0.739	ug/l	38.32	7,372.06	1.497E-03	Pulse	0.10	3
Sb			1	0.147	ug/l	89.78	1,930.24	2.852E-04	Pulse	0.10	3
Ba			1	0.069	ug/l	128.90	276.68	4.162E-05	Pulse	0.10	3
Tl			1	0.173	ug/l	95.06	4,391.25	1.121E-03	Pulse	0.10	3
Pb			1	0.048	ug/l	235.36	3,390.52	8.466E-04	Pulse	0.10	3
Pb			1	0.060	ug/l	136.83	2,810.38	6.997E-04	Pulse	0.10	3
Pb			1	0.066	ug/l	138.78	13,673.16	3.406E-03	Pulse	0.10	3
Na			2	2.085	ug/l	10.31	3,896.05	2.963E-02	Pulse	0.30	3
Mg			2	0.746	ug/l	8.00	682.24	5.187E-03	Pulse	0.30	3
Al			2	-1.375	ug/l	-20.63	170.01	1.291E-03	Pulse	0.30	3
K			2	-0.418	ug/l	-355.07	7,306.14	5.556E-02	Pulse	0.30	3
Ca			2	0.253	ug/l	593.20	35.55	2.700E-04	Pulse	0.30	3
Ti			2	0.197	ug/l	53.69	18.89	1.442E-04	Pulse	0.30	3
V			2	-0.010	ug/l	-69.29	116.67	8.880E-04	Pulse	0.30	3
Cr			2	0.010	ug/l	54.00	145.56	1.108E-03	Pulse	0.30	3
Mn			2	-0.017	ug/l	-65.14	112.22	8.524E-04	Pulse	0.30	3
Fe			2	2.123	ug/l	68.70	37,109.80	2.818E-01	Pulse	0.30	3
Co			2	-0.002	ug/l	-71.22	16.57	1.267E-04	Pulse	0.30	3
Ni			2	-0.002	ug/l	-1508.70	1,240.06	9.427E-03	Pulse	0.30	3
Cu			2	-0.099	ug/l	-14.52	858.93	6.527E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.342	ug/l	-31.92	8,203.25	6.237E-02	Pulse	0.30	3
As			2	0.056	ug/l	14.90	28.33	2.156E-04	Pulse	1.00	3
Cd			2	-0.003	ug/l	-59.04	7.75	8.193E-06	Pulse	0.30	3
Sn			2	0.775	ug/l	8.13	1,384.52	1.465E-03	Pulse	0.30	3
Se			3	0.184	ug/l	16.39	16.40	1.320E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,722,191.10	4.45	89.5	Analog	0.10	3
1	Sc		3,133,587.45	6.21	91.9	Analog	0.10	3
1	Ge		635,640.03	5.36	93.7	Pulse	0.10	3
1	Ge		888,359.91	5.83	94.1	Pulse	0.10	3
1	Rh		4,657,249.52	5.85	93.7	Analog	0.10	3
1	In		4,985,914.80	6.22	95.7	Analog	0.10	3
1	Tb		6,934,806.15	5.61	96.4	Analog	0.10	3
1	Ho		6,971,009.48	5.92	96.9	Analog	0.10	3
1	Bi		4,047,388.48	5.82	97.1	Analog	0.10	3
2	Sc		131,540.90	1.67	95.5	Pulse	0.30	3
2	Ge		89,384.54	1.81	95.9	Pulse	0.30	3
2	Ge		136,232.81	1.49	97.6	Pulse	0.30	3
2	Rh		2,611,685.52	0.76	97.3	Analog	0.30	3
2	In		944,573.58	1.15	98.0	Pulse	0.30	3
2	Tb		3,820,548.46	1.17	99.3	Analog	0.30	3
2	Ho		3,895,380.82	1.30	100.6	Analog	0.30	3
2	Bi		2,510,197.13	0.59	100.7	Analog	0.30	3
3	Sc		117,096.68	0.65	97.2	Pulse	0.30	3
3	Ge		81,606.68	0.77	99.8	Pulse	0.30	3
3	Ge		124,291.99	0.09	99.3	Pulse	0.30	3
3	Rh		1,521,026.33	0.66	100.9	Analog	0.30	3
3	Tb		2,898,509.12	1.13	100.4	Analog	0.30	3

Quantitation Report

File Name	028_QC3.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:52
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.496	ug/l	3.24	2,697.59	6.956E-04	Pulse	0.25	3
B			1	27.550	ug/l	5.43	83,348.39	2.148E-02	Pulse	0.15	3
Ca			1	236.591	ug/l	0.39	137,240.36	4.192E-02	Pulse	0.10	3
Sr			1	4.928	ug/l	0.84	130,116.95	2.678E-02	Pulse	0.10	3
Mo			1	0.992	ug/l	6.68	5,131.07	1.058E-03	Pulse	0.10	3
Ag			1	0.485	ug/l	5.56	6,054.73	1.171E-03	Pulse	0.10	3
Sn			1	4.756	ug/l	1.99	41,211.57	7.969E-03	Pulse	0.10	3
Sb			1	1.873	ug/l	5.18	19,466.05	2.695E-03	Pulse	0.10	3
Ba			1	1.005	ug/l	7.78	4,124.07	5.703E-04	Pulse	0.10	3
Tl			1	0.489	ug/l	1.35	12,876.08	3.059E-03	Pulse	0.10	3
Pb			1	0.481	ug/l	7.09	7,382.16	1.755E-03	Pulse	0.10	3
Pb			1	0.536	ug/l	3.30	6,628.38	1.575E-03	Pulse	0.10	3
Pb			1	0.520	ug/l	1.59	30,470.23	7.236E-03	Pulse	0.10	3
Na			2	243.538	ug/l	0.99	144,116.26	1.076E+00	Pulse	0.30	3
Mg			2	238.973	ug/l	1.57	68,835.50	5.139E-01	Pulse	0.30	3
Al			2	24.105	ug/l	3.42	2,576.89	1.924E-02	Pulse	0.30	3
K			2	239.787	ug/l	0.96	54,492.75	4.068E-01	Pulse	0.30	3
Ca			2	265.490	ug/l	2.93	2,854.72	2.132E-02	Pulse	0.30	3
Ti			2	1.246	ug/l	14.30	98.89	7.389E-04	Pulse	0.30	3
V			2	0.988	ug/l	1.28	2,673.58	1.996E-02	Pulse	0.30	3
Cr			2	1.005	ug/l	5.38	3,358.17	2.506E-02	Pulse	0.30	3
Mn			2	1.005	ug/l	5.52	1,871.24	1.396E-02	Pulse	0.30	3
Fe			2	19.662	ug/l	3.48	85,432.33	6.377E-01	Pulse	0.30	3
Co			2	0.498	ug/l	4.44	2,670.02	1.994E-02	Pulse	0.30	3
Ni			2	1.053	ug/l	12.90	2,744.71	2.049E-02	Pulse	0.30	3
Cu			2	1.995	ug/l	3.06	8,983.66	6.708E-02	Pulse	0.30	3
Zn			2	6.093	ug/l	3.90	12,273.60	9.162E-02	Pulse	0.30	3
As			2	0.483	ug/l	4.68	172.00	1.285E-03	Pulse	1.00	3
Cd			2	0.502	ug/l	3.91	518.55	5.403E-04	Pulse	0.30	3
Sn			2	5.187	ug/l	2.43	11,175.17	1.164E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.494	ug/l	6.26	33.33	2.641E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,875,674.16	3.26	93.2	Analog	0.10	3
1	Sc		3,273,909.22	5.11	96.0	Analog	0.10	3
1	Ge		657,894.20	4.89	97.0	Pulse	0.10	3
1	Ge		922,223.92	5.48	97.7	Pulse	0.10	3
1	Rh		4,857,850.66	4.83	97.8	Analog	0.10	3
1	In		5,167,954.90	5.45	99.2	Analog	0.10	3
1	Tb		7,216,229.27	4.26	100.4	Analog	0.10	3
1	Ho		7,218,146.97	4.68	100.3	Analog	0.10	3
1	Bi		4,211,013.79	5.01	101.0	Analog	0.10	3
2	Sc		133,951.74	1.42	97.2	Pulse	0.30	3
2	Ge		90,552.23	0.76	97.2	Pulse	0.30	3
2	Ge		138,342.64	0.63	99.1	Pulse	0.30	3
2	Rh		2,645,687.33	0.71	98.5	Analog	0.30	3
2	In		959,950.76	1.46	99.6	Pulse	0.30	3
2	Tb		3,887,354.01	1.98	101.0	Analog	0.30	3
2	Ho		3,937,506.37	1.54	101.7	Analog	0.30	3
2	Bi		2,561,710.46	1.32	102.8	Analog	0.30	3
3	Sc		118,449.51	0.97	98.3	Pulse	0.30	3
3	Ge		82,927.76	0.70	101.4	Pulse	0.30	3
3	Ge		126,225.58	0.14	100.8	Pulse	0.30	3
3	Rh		1,533,838.83	0.52	101.7	Analog	0.30	3
3	Tb		2,948,178.63	0.82	102.1	Analog	0.30	3

Quantitation Report

File Name	029SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:55
Sample Name	mp34481-mb1 4
Sample Type	Sample
Comment	
Prep Dilution	2.000
Auto Dilution	N/A
Total Dilution	2.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.015	ug/l	83.78	177.34	4.385E-05	Pulse	0.25	3
B			1	-0.237	ug/l	-405.68	11,526.36	2.877E-03	Pulse	0.15	3
Ca			1	-19.179	ug/l	-14.97	7,048.45	2.157E-03	Pulse	0.10	3
Sr			1	0.063	ug/l	45.20	1,246.76	2.525E-04	Pulse	0.10	3
Mo			1	0.107	ug/l	65.04	333.35	6.803E-05	Pulse	0.10	3
Ag			1	0.067	ug/l	40.77	350.02	6.728E-05	Pulse	0.10	3
Sn			1	0.225	ug/l	53.67	2,556.98	4.877E-04	Pulse	0.10	3
Sb			1	0.060	ug/l	134.39	876.72	1.217E-04	Pulse	0.10	3
Ba			1	0.219	ug/l	15.18	470.03	6.449E-05	Pulse	0.10	3
Tl			1	0.027	ug/l	12.78	613.37	1.410E-04	Pulse	0.10	3
Pb			1	-0.001	ug/l	-2356.88	3,240.49	7.435E-04	Pulse	0.10	3
Pb			1	0.041	ug/l	100.28	2,733.69	6.283E-04	Pulse	0.10	3
Pb			1	0.017	ug/l	175.65	12,715.95	2.920E-03	Pulse	0.10	3
Na			2	6.228	ug/l	11.80	4,717.38	3.409E-02	Pulse	0.30	3
Mg			2	2.449	ug/l	27.81	858.92	6.210E-03	Pulse	0.30	3
Al			2	-2.472	ug/l	-15.45	192.23	1.389E-03	Pulse	0.30	3
K			2	-1.814	ug/l	-227.89	7,591.81	5.485E-02	Pulse	0.30	3
Ca			2	4.431	ug/l	79.12	58.89	4.257E-04	Pulse	0.30	3
Ti			2	0.113	ug/l	42.56	8.89	6.417E-05	Pulse	0.30	3
V			2	-0.013	ug/l	-204.53	131.11	9.478E-04	Pulse	0.30	3
Cr			2	0.130	ug/l	16.48	336.68	2.434E-03	Pulse	0.30	3
Mn			2	0.014	ug/l	335.00	161.12	1.166E-03	Pulse	0.30	3
Fe			2	-13.776	ug/l	-8.25	13,691.41	9.893E-02	Pulse	0.30	3
Co			2	0.016	ug/l	31.63	75.52	5.462E-04	Pulse	0.30	3
Ni			2	-0.106	ug/l	-94.86	1,231.17	8.896E-03	Pulse	0.30	3
Cu			2	-0.165	ug/l	-10.52	970.04	7.006E-03	Pulse	0.30	3
Zn			2	1.805	ug/l	8.08	9,416.15	6.802E-02	Pulse	0.30	3
As			2	-0.006	ug/l	-150.65	9.33	6.745E-05	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	-0.005	ug/l	-299.31	8.86	8.899E-06	Pulse	0.30	3
Sn			2	0.750	ug/l	1.94	538.91	5.438E-04	Pulse	0.30	3
Se			3	-0.083	ug/l	-29.91	4.60	3.561E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,023,148.89	5.64	96.7	Analog	0.10	3
1	Sc		3,284,275.06	9.04	96.3	Analog	0.10	3
1	Ge		678,898.53	6.09	100.1	Pulse	0.10	3
1	Ge		945,990.19	5.41	100.2	Pulse	0.10	3
1	Rh		4,985,798.68	4.89	100.3	Analog	0.10	3
1	In		5,274,946.15	4.54	101.2	Analog	0.10	3
1	Tb		7,329,071.97	5.98	101.9	Analog	0.10	3
1	Ho		7,315,376.35	5.33	101.7	Analog	0.10	3
1	Bi		4,359,559.73	4.93	104.6	Analog	0.10	3
2	Sc		138,427.02	1.00	100.5	Pulse	0.30	3
2	Ge		95,634.13	1.08	102.7	Pulse	0.30	3
2	Ge		144,544.98	0.50	103.5	Pulse	0.30	3
2	Rh		2,779,493.02	0.79	103.5	Analog	0.30	3
2	In		991,019.46	0.87	102.8	Pulse	0.30	3
2	Tb		3,995,083.45	1.56	103.8	Analog	0.30	3
2	Ho		4,102,883.45	0.49	106.0	Analog	0.30	3
2	Bi		2,684,209.89	0.70	107.7	Analog	0.30	3
3	Sc		120,907.23	1.29	100.4	Pulse	0.30	3
3	Ge		85,303.19	0.93	104.3	Pulse	0.30	3
3	Ge		129,175.49	0.17	103.2	Pulse	0.30	3
3	Rh		1,581,147.92	0.21	104.8	Analog	0.30	3
3	Tb		3,010,950.09	0.71	104.3	Analog	0.30	3

Quantitation Report

File Name	030SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 11:59
Sample Name	mp34481-b1
Sample Type	Sample
Comment	
Prep Dilution	2.000
Auto Dilution	N/A
Total Dilution	2.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	78.130	ug/l	2.38	185,751.29	5.221E-02	Pulse	0.25	3
B			1	81.618	ug/l	8.33	108,400.12	3.040E-02	Pulse	0.15	3
Ca			1	3630.091	ug/l	8.33	981,219.33	2.969E-01	Pulse	0.10	3
Sr			1	79.748	ug/l	0.90	955,701.24	2.161E-01	Pulse	0.10	3
Mo			1	80.017	ug/l	0.95	186,635.20	4.221E-02	Pulse	0.10	3
Ag			1	80.350	ug/l	0.92	460,058.30	9.819E-02	Pulse	0.10	3
Sn			1	80.164	ug/l	0.71	304,060.08	6.489E-02	Pulse	0.10	3
Sb			1	79.848	ug/l	1.66	370,771.39	5.582E-02	Pulse	0.10	3
Ba			1	76.791	ug/l	0.22	143,928.77	2.169E-02	Pulse	0.10	3
Tl			1	77.569	ug/l	2.42	934,585.38	2.378E-01	Pulse	0.10	3
Pb			1	76.743	ug/l	2.59	320,043.71	8.145E-02	Pulse	0.10	3
Pb			1	76.331	ug/l	2.74	277,813.88	7.070E-02	Pulse	0.10	3
Pb			1	76.978	ug/l	2.78	1,286,568.34	3.274E-01	Pulse	0.10	3
Na			2	3806.591	ug/l	0.29	1,089,655.10	8.269E+00	Pulse	0.30	3
Mg			2	3730.586	ug/l	0.12	525,436.23	3.987E+00	Pulse	0.30	3
Al			2	3788.004	ug/l	0.50	176,093.80	1.336E+00	Pulse	0.30	3
K			2	3793.233	ug/l	0.40	372,873.18	2.829E+00	Pulse	0.30	3
Ca			2	4124.322	ug/l	0.60	21,597.51	1.639E-01	Pulse	0.30	3
Ti			2	77.933	ug/l	4.23	2,916.96	2.213E-02	Pulse	0.30	3
V			2	79.540	ug/l	0.50	100,308.07	7.611E-01	Pulse	0.30	3
Cr			2	80.152	ug/l	0.23	127,315.45	9.661E-01	Pulse	0.30	3
Mn			2	79.645	ug/l	1.08	67,470.11	5.120E-01	Pulse	0.30	3
Fe			2	3982.303	ug/l	0.53	5,356,161.04	4.064E+01	Analog	0.30	3
Co			2	79.778	ug/l	0.66	208,123.81	1.579E+00	Pulse	0.30	3
Ni			2	81.346	ug/l	1.41	57,430.65	4.358E-01	Pulse	0.30	3
Cu			2	79.966	ug/l	0.43	153,594.92	1.166E+00	Pulse	0.30	3
Zn			2	76.278	ug/l	0.22	31,272.14	2.373E-01	Pulse	0.30	3
As			2	76.884	ug/l	0.69	12,693.61	9.632E-02	Pulse	1.00	3
Cd			2	78.617	ug/l	1.63	37,702.24	4.139E-02	Pulse	0.30	3
Sn			2	81.084	ug/l	1.88	84,851.75	9.316E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	352.822	ug/l	0.49	9,089.85	7.524E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,554,345.61	6.44	85.5	Analog	0.10	3
1	Sc		3,304,599.43	1.31	96.9	Analog	0.10	3
1	Ge		601,036.01	8.83	88.6	Pulse	0.10	3
1	Ge		838,373.63	9.05	88.8	Pulse	0.10	3
1	Rh		4,420,202.85	8.86	89.0	Analog	0.10	3
1	In		4,684,141.23	8.84	89.9	Analog	0.10	3
1	Tb		6,636,373.65	8.00	92.3	Analog	0.10	3
1	Ho		6,659,304.48	8.04	92.5	Analog	0.10	3
1	Bi		3,925,359.32	6.24	94.2	Analog	0.10	3
2	Sc		131,782.75	0.83	95.6	Pulse	0.30	3
2	Ge		86,305.05	2.05	92.6	Pulse	0.30	3
2	Ge		132,073.12	1.16	94.6	Pulse	0.30	3
2	Rh		2,493,924.21	0.72	92.9	Analog	0.30	3
2	In		911,009.62	1.61	94.5	Pulse	0.30	3
2	Tb		3,739,724.71	1.09	97.2	Analog	0.30	3
2	Ho		3,786,009.71	1.16	97.8	Analog	0.30	3
2	Bi		2,448,019.21	0.79	98.2	Analog	0.30	3
3	Sc		119,763.50	0.96	99.4	Pulse	0.30	3
3	Ge		79,843.61	1.18	97.6	Pulse	0.30	3
3	Ge		120,808.07	0.96	96.5	Pulse	0.30	3
3	Rh		1,458,622.41	0.49	96.7	Analog	0.30	3
3	Tb		2,873,146.27	0.29	99.5	Analog	0.30	3

Quantitation Report

File Name	031SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:02
Sample Name	mp34481-s1
Sample Type	Sample
Comment	
Prep Dilution	2.000
Auto Dilution	N/A
Total Dilution	2.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	78.336	ug/l	1.53	185,283.68	5.235E-02	Pulse	0.25	3
B			1	111.413	ug/l	5.66	143,210.04	4.042E-02	Pulse	0.15	3
Ca			1	48646.888	ug/l	0.01	11,953,962.32	3.933E+00	Analog	0.10	3
Sr			1	180.589	ug/l	2.31	2,133,202.89	4.892E-01	Analog	0.10	3
Mo			1	82.547	ug/l	1.98	189,814.27	4.354E-02	Pulse	0.10	3
Ag			1	82.497	ug/l	0.67	480,768.18	1.008E-01	Pulse	0.10	3
Sn			1	81.142	ug/l	0.96	313,224.22	6.568E-02	Pulse	0.10	3
Sb			1	80.372	ug/l	1.64	382,001.37	5.619E-02	Pulse	0.10	3
Ba			1	89.720	ug/l	1.18	172,214.21	2.534E-02	Pulse	0.10	3
Tl			1	80.327	ug/l	0.49	965,799.02	2.463E-01	Pulse	0.10	3
Pb			1	79.172	ug/l	0.67	329,430.38	8.400E-02	Pulse	0.10	3
Pb			1	79.102	ug/l	0.56	287,240.72	7.324E-02	Pulse	0.10	3
Pb			1	79.526	ug/l	0.18	1,325,804.97	3.381E-01	Pulse	0.10	3
Na			2	6299.582	ug/l	0.79	1,697,027.12	1.367E+01	Analog	0.30	3
Mg			2	9333.263	ug/l	1.39	1,237,560.30	9.970E+00	Analog	0.30	3
Al			2	3800.704	ug/l	1.21	166,433.20	1.341E+00	Pulse	0.30	3
K			2	8620.538	ug/l	0.15	789,366.32	6.359E+00	Pulse	0.30	3
Ca			2	48549.467	ug/l	0.86	239,149.49	1.927E+00	Pulse	0.30	3
Ti			2	81.419	ug/l	5.36	2,869.18	2.312E-02	Pulse	0.30	3
V			2	80.199	ug/l	0.54	95,268.62	7.674E-01	Pulse	0.30	3
Cr			2	80.691	ug/l	0.30	120,736.84	9.726E-01	Pulse	0.30	3
Mn			2	95.704	ug/l	0.65	76,346.13	6.150E-01	Pulse	0.30	3
Fe			2	3985.586	ug/l	0.44	5,049,726.47	4.068E+01	Analog	0.30	3
Co			2	80.107	ug/l	0.52	196,869.18	1.586E+00	Pulse	0.30	3
Ni			2	81.621	ug/l	1.89	54,283.51	4.372E-01	Pulse	0.30	3
Cu			2	90.866	ug/l	0.54	164,257.12	1.323E+00	Pulse	0.30	3
Zn			2	109.118	ug/l	1.51	38,726.79	3.119E-01	Pulse	0.30	3
As			2	79.520	ug/l	0.73	12,367.02	9.962E-02	Pulse	1.00	3
Cd			2	77.387	ug/l	0.47	35,754.83	4.074E-02	Pulse	0.30	3
Sn			2	81.858	ug/l	0.42	82,540.83	9.405E-02	Pulse	0.30	3
Se			3	342.153	ug/l	0.36	8,936.37	7.297E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,538,082.17	4.22	85.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,039,664.43	6.23	89.1	Analog	0.10	3
1	Ge		626,896.37	6.39	92.4	Pulse	0.10	3
1	Ge		877,819.93	6.24	93.0	Pulse	0.10	3
1	Rh		4,360,505.45	5.63	87.8	Analog	0.10	3
1	In		4,767,878.04	6.13	91.5	Analog	0.10	3
1	Tb		6,797,652.40	6.00	94.5	Analog	0.10	3
1	Ho		6,826,504.90	4.97	94.9	Analog	0.10	3
1	Bi		3,921,268.27	6.20	94.1	Analog	0.10	3
2	Sc		124,140.59	0.77	90.1	Pulse	0.30	3
2	Ge		86,325.18	0.25	92.7	Pulse	0.30	3
2	Ge		130,160.16	1.21	93.2	Pulse	0.30	3
2	Rh		2,405,080.39	0.63	89.6	Analog	0.30	3
2	In		877,600.05	0.97	91.1	Pulse	0.30	3
2	Tb		3,660,148.88	0.70	95.1	Analog	0.30	3
2	Ho		3,755,720.82	0.83	97.0	Analog	0.30	3
2	Bi		2,383,522.54	0.62	95.6	Analog	0.30	3
3	Sc		112,373.85	0.37	93.3	Pulse	0.30	3
3	Ge		79,964.30	0.78	97.7	Pulse	0.30	3
3	Ge		122,464.69	0.22	97.8	Pulse	0.30	3
3	Rh		1,384,734.11	1.04	91.8	Analog	0.30	3
3	Tb		2,804,120.44	0.92	97.1	Analog	0.30	3

Quantitation Report

File Name	032SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:05
Sample Name	mp34481-s2
Sample Type	Sample
Comment	
Prep Dilution	2.000
Auto Dilution	N/A
Total Dilution	2.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	79.009	ug/l	1.38	184,870.37	5.280E-02	Pulse	0.25	3
B			1	116.629	ug/l	3.88	147,754.94	4.217E-02	Pulse	0.15	3
Ca			1	49104.515	ug/l	1.55	11,960,885.65	3.970E+00	Analog	0.10	3
Sr			1	183.946	ug/l	0.61	2,165,839.24	4.983E-01	Analog	0.10	3
Mo			1	82.626	ug/l	0.70	189,392.73	4.358E-02	Pulse	0.10	3
Ag			1	80.182	ug/l	1.57	462,722.71	9.798E-02	Pulse	0.10	3
Sn			1	82.157	ug/l	0.24	313,903.43	6.649E-02	Pulse	0.10	3
Sb			1	81.083	ug/l	0.94	387,715.28	5.668E-02	Pulse	0.10	3
Ba			1	90.759	ug/l	0.96	175,275.11	2.563E-02	Pulse	0.10	3
Tl			1	82.173	ug/l	0.77	983,189.75	2.520E-01	Pulse	0.10	3
Pb			1	81.411	ug/l	0.64	336,909.87	8.636E-02	Pulse	0.10	3
Pb			1	81.136	ug/l	1.12	292,999.21	7.511E-02	Pulse	0.10	3
Pb			1	81.260	ug/l	0.55	1,347,715.67	3.454E-01	Pulse	0.10	3
Na			2	6496.647	ug/l	1.89	1,732,778.23	1.410E+01	Analog	0.30	3
Mg			2	9654.772	ug/l	2.18	1,267,626.96	1.031E+01	Analog	0.30	3
Al			2	3862.469	ug/l	1.45	167,462.06	1.362E+00	Pulse	0.30	3
K			2	8881.031	ug/l	2.06	804,986.72	6.549E+00	Pulse	0.30	3
Ca			2	50165.801	ug/l	1.75	244,695.41	1.991E+00	Pulse	0.30	3
Ti			2	79.784	ug/l	2.91	2,784.71	2.265E-02	Pulse	0.30	3
V			2	82.432	ug/l	0.94	96,953.90	7.888E-01	Pulse	0.30	3
Cr			2	81.992	ug/l	1.78	121,462.22	9.883E-01	Pulse	0.30	3
Mn			2	94.283	ug/l	1.09	74,474.17	6.059E-01	Pulse	0.30	3
Fe			2	4052.495	ug/l	1.51	5,083,214.66	4.136E+01	Analog	0.30	3
Co			2	82.169	ug/l	2.28	199,932.52	1.627E+00	Pulse	0.30	3
Ni			2	84.197	ug/l	0.86	55,409.48	4.507E-01	Pulse	0.30	3
Cu			2	93.756	ug/l	1.98	167,760.94	1.365E+00	Pulse	0.30	3
Zn			2	115.950	ug/l	2.39	40,248.19	3.275E-01	Pulse	0.30	3
As			2	80.386	ug/l	2.37	12,378.36	1.007E-01	Pulse	1.00	3
Cd			2	78.945	ug/l	0.65	36,439.45	4.156E-02	Pulse	0.30	3
Sn			2	82.852	ug/l	0.82	83,463.50	9.520E-02	Pulse	0.30	3
Se			3	344.007	ug/l	0.83	9,100.46	7.337E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,500,631.55	3.53	84.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,014,812.77	5.56	88.4	Analog	0.10	3
1	Ge		623,999.17	5.34	92.0	Pulse	0.10	3
1	Ge		872,189.52	5.98	92.4	Pulse	0.10	3
1	Rh		4,346,886.50	5.46	87.5	Analog	0.10	3
1	In		4,720,908.42	4.94	90.6	Analog	0.10	3
1	Tb		6,838,786.15	4.56	95.1	Analog	0.10	3
1	Ho		6,857,009.90	4.31	95.3	Analog	0.10	3
1	Bi		3,902,249.11	5.08	93.6	Analog	0.10	3
2	Sc		122,930.29	1.85	89.2	Pulse	0.30	3
2	Ge		86,391.25	1.57	92.7	Pulse	0.30	3
2	Ge		130,356.25	1.22	93.4	Pulse	0.30	3
2	Rh		2,381,677.33	0.90	88.7	Analog	0.30	3
2	In		876,809.44	1.22	91.0	Pulse	0.30	3
2	Tb		3,635,954.58	0.52	94.5	Analog	0.30	3
2	Ho		3,700,701.52	0.49	95.6	Analog	0.30	3
2	Bi		2,359,689.63	0.40	94.7	Analog	0.30	3
3	Sc		114,915.30	0.67	95.4	Pulse	0.30	3
3	Ge		80,590.55	0.28	98.5	Pulse	0.30	3
3	Ge		124,048.94	1.00	99.1	Pulse	0.30	3
3	Rh		1,403,327.55	0.49	93.1	Analog	0.30	3
3	Tb		2,806,915.72	0.38	97.2	Analog	0.30	3

Quantitation Report

File Name	033SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:09
Sample Name	JD49362-3F
Sample Type	Sample
Comment	
Prep Dilution	2.000
Auto Dilution	N/A
Total Dilution	2.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.138	ug/l	108.09	457.35	1.256E-04	Pulse	0.25	3
B			1	29.374	ug/l	3.41	47,842.97	1.283E-02	Pulse	0.15	3
Ca			1	44054.341	ug/l	0.72	11,154,964.83	3.562E+00	Analog	0.10	3
Sr			1	96.042	ug/l	0.84	1,182,294.05	2.602E-01	Pulse	0.10	3
Mo			1	0.652	ug/l	35.38	1,590.16	3.551E-04	Pulse	0.10	3
Ag			1	0.176	ug/l	109.92	946.77	2.006E-04	Pulse	0.10	3
Sn			1	0.727	ug/l	45.75	4,340.79	8.923E-04	Pulse	0.10	3
Sb			1	0.316	ug/l	57.28	2,083.57	3.001E-04	Pulse	0.10	3
Ba			1	11.736	ug/l	1.80	23,358.35	3.316E-03	Pulse	0.10	3
Tl			1	0.269	ug/l	87.39	3,520.82	8.832E-04	Pulse	0.10	3
Pb			1	0.085	ug/l	117.73	3,400.53	8.340E-04	Pulse	0.10	3
Pb			1	0.153	ug/l	99.23	2,973.75	7.308E-04	Pulse	0.10	3
Pb			1	0.118	ug/l	112.40	13,643.04	3.348E-03	Pulse	0.10	3
Na			2	2213.041	ug/l	1.18	609,089.26	4.816E+00	Pulse	0.30	3
Mg			2	5317.658	ug/l	1.21	718,615.93	5.682E+00	Pulse	0.30	3
Al			2	1.262	ug/l	28.30	342.23	2.704E-03	Pulse	0.30	3
K			2	4945.639	ug/l	1.13	464,420.76	3.672E+00	Pulse	0.30	3
Ca			2	44996.941	ug/l	0.87	225,842.63	1.786E+00	Pulse	0.30	3
Ti			2	0.471	ug/l	113.06	21.11	1.658E-04	Pulse	0.30	3
V			2	0.189	ug/l	9.42	364.45	2.881E-03	Pulse	0.30	3
Cr			2	0.472	ug/l	5.75	828.92	6.550E-03	Pulse	0.30	3
Mn			2	12.991	ug/l	2.40	10,679.11	8.441E-02	Pulse	0.30	3
Fe			2	15.559	ug/l	5.39	50,180.44	3.966E-01	Pulse	0.30	3
Co			2	0.476	ug/l	6.17	1,218.81	9.640E-03	Pulse	0.30	3
Ni			2	1.685	ug/l	5.34	2,313.53	1.828E-02	Pulse	0.30	3
Cu			2	12.056	ug/l	0.20	23,236.60	1.837E-01	Pulse	0.30	3
Zn			2	34.867	ug/l	3.51	18,107.93	1.432E-01	Pulse	0.30	3
As			2	0.473	ug/l	1.07	84.33	6.667E-04	Pulse	1.00	3
Cd			2	0.099	ug/l	9.49	57.70	6.335E-05	Pulse	0.30	3
Sn			2	1.255	ug/l	5.92	1,025.61	1.126E-03	Pulse	0.30	3
Se			3	1.335	ug/l	9.94	41.93	3.380E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,731,124.68	4.87	89.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,132,038.08	5.48	91.8	Analog	0.10	3
1	Ge		642,733.15	5.74	94.8	Pulse	0.10	3
1	Ge		902,680.25	6.12	95.6	Pulse	0.10	3
1	Rh		4,543,405.45	6.36	91.4	Analog	0.10	3
1	In		4,911,471.42	5.07	94.2	Analog	0.10	3
1	Tb		7,039,567.19	4.93	97.9	Analog	0.10	3
1	Ho		6,999,550.52	5.28	97.3	Analog	0.10	3
1	Bi		4,094,831.50	5.12	98.3	Analog	0.10	3
2	Sc		126,497.13	2.03	91.8	Pulse	0.30	3
2	Ge		88,307.90	1.61	94.8	Pulse	0.30	3
2	Ge		133,242.65	0.86	95.4	Pulse	0.30	3
2	Rh		2,479,124.56	1.18	92.3	Analog	0.30	3
2	In		910,315.75	1.14	94.5	Pulse	0.30	3
2	Tb		3,716,091.38	1.12	96.6	Analog	0.30	3
2	Ho		3,808,442.21	1.16	98.3	Analog	0.30	3
2	Bi		2,479,286.71	0.90	99.5	Analog	0.30	3
3	Sc		115,549.75	0.79	95.9	Pulse	0.30	3
3	Ge		81,778.74	0.81	100.0	Pulse	0.30	3
3	Ge		124,043.26	0.32	99.1	Pulse	0.30	3
3	Rh		1,459,831.92	0.61	96.8	Analog	0.30	3
3	Tb		2,841,155.10	0.75	98.4	Analog	0.30	3

Quantitation Report

File Name	034SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:12
Sample Name	mp34481-sd1
Sample Type	Sample
Comment	
Prep Dilution	2.000
Auto Dilution	N/A
Total Dilution	2.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.021	ug/l	60.21	173.33	4.752E-05	Pulse	0.25	3
B			1	22.596	ug/l	1.92	38,582.21	1.055E-02	Pulse	0.15	3
Ca			1	44242.867	ug/l	0.54	10,906,850.67	3.577E+00	Analog	0.10	3
Sr			1	95.600	ug/l	1.06	1,146,034.33	2.590E-01	Mix	0.10	3
Mo			1	0.491	ug/l	6.92	1,193.43	2.706E-04	Pulse	0.10	3
Ag			1	0.024	ug/l	34.79	70.00	1.437E-05	Pulse	0.10	3
Sn			1	0.440	ug/l	29.03	3,130.52	6.613E-04	Pulse	0.10	3
Sb			1	0.151	ug/l	20.35	1,256.77	1.848E-04	Pulse	0.10	3
Ba			1	11.568	ug/l	1.05	22,360.18	3.269E-03	Pulse	0.10	3
Tl			1	0.035	ug/l	35.49	653.37	1.651E-04	Pulse	0.10	3
Pb			1	0.071	ug/l	32.48	3,250.49	8.188E-04	Pulse	0.10	3
Pb			1	0.073	ug/l	42.98	2,610.34	6.575E-04	Pulse	0.10	3
Pb			1	0.036	ug/l	43.11	11,908.99	3.000E-03	Pulse	0.10	3
Na			2	2218.510	ug/l	0.74	609,016.05	4.828E+00	Pulse	0.30	3
Mg			2	5324.587	ug/l	0.09	717,734.12	5.689E+00	Pulse	0.30	3
Al			2	0.911	ug/l	31.85	325.56	2.580E-03	Pulse	0.30	3
K			2	4945.413	ug/l	0.77	463,193.09	3.672E+00	Pulse	0.30	3
Ca			2	44360.681	ug/l	0.80	222,063.95	1.760E+00	Pulse	0.30	3
Ti			2	0.042	ug/l	130.99	5.56	4.413E-05	Pulse	0.30	3
V			2	0.206	ug/l	8.77	383.34	3.037E-03	Pulse	0.30	3
Cr			2	0.499	ug/l	11.22	866.70	6.873E-03	Pulse	0.30	3
Mn			2	13.241	ug/l	1.43	10,850.34	8.601E-02	Pulse	0.30	3
Fe			2	6.976	ug/l	5.37	39,047.14	3.095E-01	Pulse	0.30	3
Co			2	0.489	ug/l	4.19	1,249.96	9.911E-03	Pulse	0.30	3
Ni			2	1.692	ug/l	13.92	2,310.19	1.832E-02	Pulse	0.30	3
Cu			2	12.086	ug/l	0.54	23,227.64	1.841E-01	Pulse	0.30	3
Zn			2	35.292	ug/l	5.41	18,188.01	1.441E-01	Pulse	0.30	3
As			2	0.512	ug/l	14.72	90.33	7.160E-04	Pulse	1.00	3
Cd			2	0.059	ug/l	36.94	38.83	4.266E-05	Pulse	0.30	3
Sn			2	1.024	ug/l	4.73	783.36	8.593E-04	Pulse	0.30	3
Se			3	1.026	ug/l	9.92	33.93	2.720E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,654,472.11	6.38	87.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,049,251.83	7.11	89.4	Analog	0.10	3
1	Ge		620,431.20	6.95	91.5	Pulse	0.10	3
1	Ge		866,428.74	7.79	91.8	Pulse	0.10	3
1	Rh		4,423,172.95	7.43	89.0	Analog	0.10	3
1	In		4,772,427.81	7.92	91.6	Analog	0.10	3
1	Tb		6,837,954.28	7.59	95.1	Analog	0.10	3
1	Ho		6,868,738.23	6.96	95.5	Analog	0.10	3
1	Bi		3,971,017.33	7.55	95.3	Analog	0.10	3
2	Sc		126,156.46	1.20	91.6	Pulse	0.30	3
2	Ge		88,386.94	0.51	94.9	Pulse	0.30	3
2	Ge		132,229.25	1.34	94.7	Pulse	0.30	3
2	Rh		2,491,947.26	1.53	92.8	Analog	0.30	3
2	In		911,405.84	0.81	94.6	Pulse	0.30	3
2	Tb		3,723,804.02	1.13	96.8	Analog	0.30	3
2	Ho		3,787,579.16	0.56	97.8	Analog	0.30	3
2	Bi		2,475,514.76	0.76	99.3	Analog	0.30	3
3	Sc		116,638.30	0.66	96.8	Pulse	0.30	3
3	Ge		81,853.53	1.28	100.1	Pulse	0.30	3
3	Ge		124,784.70	0.92	99.6	Pulse	0.30	3
3	Rh		1,452,961.37	0.68	96.3	Analog	0.30	3
3	Tb		2,902,669.33	1.21	100.6	Analog	0.30	3

Quantitation Report

File Name	035SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:16
Sample Name	JD49193-10
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.681	ug/l	0.76	5,348.92	1.284E-03	Pulse	0.25	3
B			1	75.100	ug/l	9.48	54,501.37	1.306E-02	Pulse	0.15	3
Ca			1	76815.783	ug/l	4.65	8,827,552.16	2.485E+00	Analog	0.10	3
Sr			1	359.954	ug/l	0.38	1,940,327.26	3.901E-01	Analog	0.10	3
Mo			1	5.319	ug/l	3.91	5,641.21	1.133E-03	Pulse	0.10	3
Ag			1	3.964	ug/l	2.29	10,297.00	1.923E-03	Pulse	0.10	3
Sn			1	133.467	ug/l	0.79	231,786.04	4.332E-02	Pulse	0.10	3
Sb			1	11.978	ug/l	4.72	26,713.66	3.424E-03	Pulse	0.10	3
Ba			1	2885.263	ug/l	1.15	2,539,715.38	3.259E-01	Analog	0.10	3
Tl			1	1.101	ug/l	2.15	6,241.54	1.408E-03	Pulse	0.10	3
Pb			1	2237.202	ug/l	1.13	4,178,514.00	9.418E-01	Analog	0.10	3
Pb			1	2176.811	ug/l	0.84	3,550,095.47	8.003E-01	Analog	0.10	3
Pb			1	2183.214	ug/l	1.07	16,347,748.50	3.685E+00	Analog	0.10	3
Na			2	2367.254	ug/l	0.37	312,823.76	2.072E+00	Pulse	0.30	3
Mg			2	40948.296	ug/l	0.60	2,640,577.88	1.749E+01	Analog	0.30	3
Al			2	79059.031	ug/l	0.94	1,681,296.74	1.114E+01	Analog	0.30	3
K			2	18574.860	ug/l	0.35	828,506.82	5.488E+00	Pulse	0.30	3
Ca			2	75969.931	ug/l	0.60	182,035.50	1.206E+00	Pulse	0.30	3
Ti			2	2429.400	ug/l	0.56	41,596.49	2.756E-01	Pulse	0.30	3
V			2	259.453	ug/l	0.74	149,861.74	9.928E-01	Pulse	0.30	3
Cr			2	288.409	ug/l	0.34	209,843.51	1.390E+00	Pulse	0.30	3
Mn			2	2904.183	ug/l	0.34	1,125,105.72	7.453E+00	Pulse	0.30	3
Fe			2	117610.959	ug/l	0.18	72,090,328.25	4.776E+02	Analog	0.30	3
Co			2	44.416	ug/l	1.36	53,117.95	3.519E-01	Pulse	0.30	3
Ni			2	94.040	ug/l	2.52	31,179.54	2.066E-01	Pulse	0.30	3
Cu			2	450.556	ug/l	0.60	394,733.04	2.615E+00	Pulse	0.30	3
Zn			2	2877.263	ug/l	0.43	404,577.08	2.680E+00	Pulse	0.30	3
As			2	61.877	ug/l	0.48	4,688.35	3.106E-02	Pulse	1.00	3
Cd			2	8.702	ug/l	6.71	1,848.65	1.843E-03	Pulse	0.30	3
Sn			2	136.408	ug/l	0.74	62,747.22	6.258E-02	Pulse	0.30	3
Se			3	3.924	ug/l	8.25	52.20	3.879E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,166,066.15	3.94	100.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,562,041.30	9.32	104.4	Analog	0.10	3
1	Ge		704,346.81	5.20	103.8	Pulse	0.10	3
1	Ge		972,336.42	6.04	103.0	Pulse	0.10	3
1	Rh		4,973,548.05	4.93	100.1	Analog	0.10	3
1	In		5,350,087.20	4.96	102.7	Analog	0.10	3
1	Tb		7,793,377.59	4.44	108.4	Analog	0.10	3
1	Ho		7,842,755.51	4.77	109.0	Analog	0.10	3
1	Bi		4,435,783.58	3.63	106.4	Analog	0.10	3
2	Sc		150,955.92	1.75	109.6	Pulse	0.30	3
2	Ge		98,158.91	1.14	105.4	Pulse	0.30	3
2	Ge		146,396.97	1.48	104.9	Pulse	0.30	3
2	Rh		2,717,040.59	0.76	101.2	Analog	0.30	3
2	In		1,002,569.60	1.71	104.0	Pulse	0.30	3
2	Tb		4,063,721.23	0.74	105.6	Analog	0.30	3
2	Ho		4,160,707.75	0.61	107.4	Analog	0.30	3
2	Bi		2,643,688.99	0.23	106.1	Analog	0.30	3
3	Sc		135,496.51	0.58	112.5	Pulse	0.30	3
3	Ge		88,225.06	0.52	107.8	Pulse	0.30	3
3	Ge		134,574.56	0.19	107.5	Pulse	0.30	3
3	Rh		1,562,702.16	1.00	103.6	Analog	0.30	3
3	Tb		3,085,744.05	0.71	106.9	Analog	0.30	3

Quantitation Report

File Name	036SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:20
Sample Name	JD49369-1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	7.550	ug/l	3.75	8,267.43	2.050E-03	Pulse	0.25	3
B			1	39.623	ug/l	9.68	33,422.25	8.286E-03	Pulse	0.15	3
Ca			1	425880.279	ug/l	1.28	49,647,055.93	1.376E+01	Analog	0.10	3
Sr			1	1039.355	ug/l	0.66	5,307,683.25	1.126E+00	Analog	0.10	3
Mo			1	7.117	ug/l	2.36	7,135.18	1.513E-03	Pulse	0.10	3
Ag			1	1.040	ug/l	6.05	2,503.62	4.936E-04	Pulse	0.10	3
Sn			1	52.927	ug/l	1.43	88,192.96	1.736E-02	Pulse	0.10	3
Sb			1	1.799	ug/l	6.76	4,380.79	5.818E-04	Pulse	0.10	3
Ba			1	557.391	ug/l	0.80	474,264.73	6.296E-02	Pulse	0.10	3
Tl			1	2.089	ug/l	4.28	10,877.65	2.619E-03	Pulse	0.10	3
Pb			1	453.186	ug/l	1.16	795,439.36	1.914E-01	Pulse	0.10	3
Pb			1	432.984	ug/l	1.27	663,511.58	1.597E-01	Pulse	0.10	3
Pb			1	449.715	ug/l	1.60	3,163,328.10	7.612E-01	Analog	0.10	3
Na			2	2487.140	ug/l	0.54	312,796.11	2.176E+00	Pulse	0.30	3
Mg			2	76104.899	ug/l	0.94	4,672,571.34	3.251E+01	Analog	0.30	3
Al			2	136238.263	ug/l	0.93	2,758,612.04	1.919E+01	Analog	0.30	3
K			2	24085.139	ug/l	0.89	1,020,409.65	7.100E+00	Pulse	0.30	3
Ca			2	434858.955	ug/l	0.81	991,988.75	6.902E+00	Pulse	0.30	3
Ti			2	6487.833	ug/l	0.93	105,761.96	7.359E-01	Pulse	0.30	3
V			2	242.785	ug/l	0.99	133,539.06	9.291E-01	Pulse	0.30	3
Cr			2	241.651	ug/l	0.31	167,445.75	1.165E+00	Pulse	0.30	3
Mn			2	2783.888	ug/l	0.53	1,026,882.53	7.144E+00	Pulse	0.30	3
Fe			2	131359.779	ug/l	1.04	76,658,868.06	5.334E+02	Analog	0.30	3
Co			2	51.325	ug/l	1.51	58,444.68	4.066E-01	Pulse	0.30	3
Ni			2	114.345	ug/l	0.17	35,815.53	2.492E-01	Pulse	0.30	3
Cu			2	180.998	ug/l	0.90	151,813.38	1.056E+00	Pulse	0.30	3
Zn			2	787.913	ug/l	0.60	112,164.12	7.803E-01	Pulse	0.30	3
As			2	33.325	ug/l	0.44	2,409.19	1.676E-02	Pulse	1.00	3
Cd			2	1.306	ug/l	11.03	269.55	2.865E-04	Pulse	0.30	3
Sn			2	54.987	ug/l	0.23	23,558.87	2.504E-02	Pulse	0.30	3
Se			3	4.638	ug/l	1.59	55.60	4.488E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,029,815.55	2.43	96.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,606,406.40	3.55	105.7	Analog	0.10	3
1	Ge		668,144.10	5.39	98.5	Pulse	0.10	3
1	Ge		928,858.29	4.97	98.4	Pulse	0.10	3
1	Rh		4,713,771.18	5.00	94.9	Analog	0.10	3
1	In		5,079,514.44	4.03	97.5	Analog	0.10	3
1	Tb		7,534,004.05	4.14	104.8	Analog	0.10	3
1	Ho		7,533,357.39	4.01	104.7	Analog	0.10	3
1	Bi		4,157,358.17	4.30	99.8	Analog	0.10	3
2	Sc		143,737.75	1.31	104.3	Pulse	0.30	3
2	Ge		92,060.15	0.49	98.8	Pulse	0.30	3
2	Ge		138,567.58	1.25	99.3	Pulse	0.30	3
2	Rh		2,516,769.07	0.52	93.7	Analog	0.30	3
2	In		941,014.18	1.60	97.6	Pulse	0.30	3
2	Tb		3,899,095.96	0.77	101.3	Analog	0.30	3
2	Ho		4,032,668.03	0.58	104.1	Analog	0.30	3
2	Bi		2,467,319.83	1.21	99.0	Analog	0.30	3
3	Sc		126,671.16	0.97	105.2	Pulse	0.30	3
3	Ge		82,033.23	0.16	100.3	Pulse	0.30	3
3	Ge		123,896.82	0.70	98.9	Pulse	0.30	3
3	Rh		1,424,155.88	1.14	94.4	Analog	0.30	3
3	Tb		2,903,898.64	1.10	100.6	Analog	0.30	3

Quantitation Report

File Name	037_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:24
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.493	ug/l	2.86	270,790.96	6.747E-02	Pulse	0.25	3
B			1	92.426	ug/l	11.69	261,796.25	6.511E-02	Pulse	0.15	3
Ca			1	5422.236	ug/l	3.72	2,936,004.02	8.796E-01	Analog	0.10	3
Sr			1	52.646	ug/l	1.51	1,355,512.30	2.853E-01	Analog	0.10	3
Mo			1	51.669	ug/l	0.60	259,151.99	5.450E-02	Pulse	0.10	3
Ag			1	52.006	ug/l	2.09	648,302.27	1.271E-01	Pulse	0.10	3
Sn			1	51.088	ug/l	1.72	421,350.63	8.262E-02	Pulse	0.10	3
Sb			1	52.034	ug/l	1.84	531,776.37	7.273E-02	Pulse	0.10	3
Ba			1	50.326	ug/l	1.93	207,815.27	2.842E-02	Pulse	0.10	3
Tl			1	51.780	ug/l	1.83	1,312,863.57	3.175E-01	Analog	0.10	3
Pb			1	52.031	ug/l	1.91	455,495.79	1.102E-01	Pulse	0.10	3
Pb			1	51.526	ug/l	1.40	393,684.36	9.524E-02	Pulse	0.10	3
Pb			1	51.940	ug/l	1.61	1,822,112.00	4.408E-01	Pulse	0.10	3
Na			2	5254.523	ug/l	0.18	3,227,517.30	2.279E+01	Analog	0.30	3
Mg			2	5220.251	ug/l	0.68	1,579,191.22	1.115E+01	Analog	0.30	3
Al			2	5170.077	ug/l	0.72	515,976.30	3.644E+00	Pulse	0.30	3
K			2	5142.903	ug/l	0.28	1,072,867.18	7.576E+00	Pulse	0.30	3
Ca			2	5346.548	ug/l	1.16	60,113.43	4.245E-01	Pulse	0.30	3
Ti			2	52.172	ug/l	6.24	4,193.92	2.962E-02	Pulse	0.30	3
V			2	51.499	ug/l	1.35	139,525.20	9.853E-01	Pulse	0.30	3
Cr			2	51.310	ug/l	0.26	175,134.54	1.237E+00	Pulse	0.30	3
Mn			2	51.058	ug/l	0.68	92,916.52	6.561E-01	Pulse	0.30	3
Fe			2	5257.195	ug/l	0.28	15,141,162.17	1.069E+02	Analog	0.30	3
Co			2	50.694	ug/l	0.25	284,232.54	2.007E+00	Pulse	0.30	3
Ni			2	50.478	ug/l	0.43	76,271.97	5.386E-01	Pulse	0.30	3
Cu			2	50.156	ug/l	0.11	206,712.30	1.460E+00	Pulse	0.30	3
Zn			2	49.708	ug/l	0.93	41,054.69	2.899E-01	Pulse	0.30	3
As			2	51.549	ug/l	0.50	18,287.23	1.291E-01	Pulse	1.00	3
Cd			2	50.262	ug/l	0.58	52,262.82	5.292E-02	Pulse	0.30	3
Sn			2	51.086	ug/l	0.24	116,012.07	1.175E-01	Pulse	0.30	3
Se			3	202.543	ug/l	0.66	11,302.29	8.638E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,010,918.10	3.30	96.4	Analog	0.10	3
1	Sc		3,341,342.24	4.45	97.9	Analog	0.10	3
1	Ge		671,662.63	5.52	99.0	Pulse	0.10	3

Quantitation Report

1	Ge		939,219.54	6.10	99.5	Pulse	0.10	3
1	Rh		4,754,175.04	6.05	95.7	Analog	0.10	3
1	In		5,096,870.37	5.36	97.8	Analog	0.10	3
1	Tb		7,306,953.43	5.56	101.6	Analog	0.10	3
1	Ho		7,297,539.48	4.91	101.4	Analog	0.10	3
1	Bi		4,132,235.88	4.86	99.2	Analog	0.10	3
2	Sc		141,613.19	1.12	102.8	Pulse	0.30	3
2	Ge		95,379.41	1.48	102.4	Pulse	0.30	3
2	Ge		144,759.23	1.63	103.7	Pulse	0.30	3
2	Rh		2,654,011.49	0.56	98.8	Analog	0.30	3
2	In		987,583.03	1.25	102.5	Pulse	0.30	3
2	Tb		3,946,512.34	1.29	102.6	Analog	0.30	3
2	Ho		4,054,776.23	1.54	104.7	Analog	0.30	3
2	Bi		2,574,126.77	0.86	103.3	Analog	0.30	3
3	Sc		125,424.23	0.62	104.1	Pulse	0.30	3
3	Ge		85,906.40	0.31	105.0	Pulse	0.30	3
3	Ge		130,839.03	0.17	104.5	Pulse	0.30	3
3	Rh		1,521,501.02	0.82	100.9	Analog	0.30	3
3	Tb		2,965,674.53	0.52	102.7	Analog	0.30	3

Quantitation Report

File Name	038BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:27
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.100	ug/l	140.47	658.71	1.677E-04	Pulse	0.25	3
B			1	8.465	ug/l	22.23	34,720.52	8.649E-03	Pulse	0.15	3
Ca			1	-2.274	ug/l	-652.00	10,748.57	3.339E-03	Pulse	0.10	3
Sr			1	0.094	ug/l	139.61	2,770.69	5.903E-04	Pulse	0.10	3
Mo			1	0.258	ug/l	99.91	1,340.17	2.832E-04	Pulse	0.10	3
Ag			1	0.189	ug/l	116.94	2,233.81	4.482E-04	Pulse	0.10	3
Sn			1	0.655	ug/l	49.96	6,961.99	1.362E-03	Pulse	0.10	3
Sb			1	0.205	ug/l	96.54	2,573.74	3.660E-04	Pulse	0.10	3
Ba			1	0.098	ug/l	145.75	396.69	5.777E-05	Pulse	0.10	3
Tl			1	0.213	ug/l	91.77	5,548.57	1.366E-03	Pulse	0.10	3
Pb			1	0.084	ug/l	181.35	3,814.00	9.205E-04	Pulse	0.10	3
Pb			1	0.102	ug/l	140.98	3,223.84	7.776E-04	Pulse	0.10	3
Pb			1	0.105	ug/l	130.72	15,493.98	3.735E-03	Pulse	0.10	3
Na			2	0.131	ug/l	237.18	2,852.50	2.116E-02	Pulse	0.30	3
Mg			2	0.270	ug/l	37.01	562.24	4.171E-03	Pulse	0.30	3
Al			2	-1.055	ug/l	-9.23	204.45	1.516E-03	Pulse	0.30	3
K			2	1.822	ug/l	40.09	7,935.29	5.884E-02	Pulse	0.30	3
Ca			2	-1.286	ug/l	-71.10	20.00	1.478E-04	Pulse	0.30	3
Ti			2	0.465	ug/l	41.73	40.00	2.960E-04	Pulse	0.30	3
V			2	0.000	ug/l	-18963.13	144.45	1.071E-03	Pulse	0.30	3
Cr			2	0.010	ug/l	36.37	147.78	1.096E-03	Pulse	0.30	3
Mn			2	-0.010	ug/l	-237.67	127.78	9.496E-04	Pulse	0.30	3
Fe			2	6.594	ug/l	25.64	50,258.96	3.725E-01	Pulse	0.30	3
Co			2	0.000	ug/l	-300.71	28.76	2.133E-04	Pulse	0.30	3
Ni			2	-0.133	ug/l	-62.19	1,086.72	8.062E-03	Pulse	0.30	3
Cu			2	-0.061	ug/l	-42.52	1,030.05	7.634E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.269	ug/l	-91.25	8,455.62	6.270E-02	Pulse	0.30	3
As			2	0.049	ug/l	55.73	26.67	1.982E-04	Pulse	1.00	3
Cd			2	0.008	ug/l	88.68	18.87	1.984E-05	Pulse	0.30	3
Sn			2	0.732	ug/l	6.95	1,301.18	1.367E-03	Pulse	0.30	3
Se			3	0.201	ug/l	17.00	17.40	1.391E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,027,676.90	3.39	96.8	Analog	0.10	3
1	Sc		3,308,493.08	5.85	97.0	Analog	0.10	3
1	Ge		667,897.86	5.62	98.5	Pulse	0.10	3
1	Ge		931,079.80	5.12	98.7	Pulse	0.10	3
1	Rh		4,894,790.34	5.43	98.5	Analog	0.10	3
1	In		5,172,635.94	4.83	99.3	Analog	0.10	3
1	Tb		7,223,731.14	5.46	100.5	Analog	0.10	3
1	Ho		7,256,724.68	5.07	100.9	Analog	0.10	3
1	Bi		4,194,733.06	5.60	100.7	Analog	0.10	3
2	Sc		134,854.06	1.04	97.9	Pulse	0.30	3
2	Ge		90,503.18	0.61	97.1	Pulse	0.30	3
2	Ge		137,692.00	0.31	98.6	Pulse	0.30	3
2	Rh		2,663,456.98	0.25	99.2	Analog	0.30	3
2	In		952,050.27	0.53	98.8	Pulse	0.30	3
2	Tb		3,855,783.74	0.61	100.2	Analog	0.30	3
2	Ho		3,908,589.57	0.13	100.9	Analog	0.30	3
2	Bi		2,522,995.66	0.56	101.2	Analog	0.30	3
3	Sc		116,857.56	0.10	97.0	Pulse	0.30	3
3	Ge		81,929.53	0.42	100.1	Pulse	0.30	3
3	Ge		125,158.58	0.80	99.9	Pulse	0.30	3
3	Rh		1,509,307.26	0.19	100.1	Analog	0.30	3
3	Tb		2,891,951.06	1.28	100.2	Analog	0.30	3

Quantitation Report

File Name	039SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:30
Sample Name	JD49358-1F
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.024	ug/l	44.32	160.00	4.004E-05	Pulse	0.25	3
B			1	10.247	ug/l	4.58	17,329.17	4.334E-03	Pulse	0.15	3
Ca			1	401782.300	ug/l	0.68	43,374,935.19	1.298E+01	Analog	0.10	3
Sr			1	1008.107	ug/l	0.99	5,145,051.17	1.092E+00	Analog	0.10	3
Mo			1	0.278	ug/l	11.02	330.01	7.004E-05	Pulse	0.10	3
Ag			1	0.081	ug/l	20.82	123.34	2.450E-05	Pulse	0.10	3
Sn			1	0.687	ug/l	41.65	2,666.99	5.283E-04	Pulse	0.10	3
Sb			1	0.000	ug/l	-25845.70	566.70	7.943E-05	Pulse	0.10	3
Ba			1	14.447	ug/l	2.06	11,831.63	1.634E-03	Pulse	0.10	3
Tl			1	0.129	ug/l	9.80	896.73	2.160E-04	Pulse	0.10	3
Pb			1	-0.019	ug/l	-597.25	3,060.43	7.364E-04	Pulse	0.10	3
Pb			1	0.124	ug/l	116.96	2,627.00	6.359E-04	Pulse	0.10	3
Pb			1	0.069	ug/l	65.12	12,285.83	2.965E-03	Pulse	0.10	3
Na			2	8206.597	ug/l	1.12	1,038,614.89	7.133E+00	Pulse	0.30	3
Mg			2	91136.666	ug/l	1.28	5,668,253.11	3.893E+01	Analog	0.30	3
Al			2	19.243	ug/l	6.19	723.36	4.970E-03	Pulse	0.30	3
K			2	22293.263	ug/l	1.00	957,432.46	6.576E+00	Pulse	0.30	3
Ca			2	404712.235	ug/l	0.61	935,312.22	6.423E+00	Pulse	0.30	3
Ti			2	1.530	ug/l	10.31	30.00	2.057E-04	Pulse	0.30	3
V			2	0.259	ug/l	24.94	301.12	2.064E-03	Pulse	0.30	3
Cr			2	0.508	ug/l	2.00	482.24	3.311E-03	Pulse	0.30	3
Mn			2	6098.105	ug/l	1.70	2,278,283.94	1.565E+01	Analog	0.30	3
Fe			2	-11.349	ug/l	-39.24	28,094.33	1.926E-01	Pulse	0.30	3
Co			2	0.472	ug/l	11.24	575.50	3.958E-03	Pulse	0.30	3
Ni			2	0.811	ug/l	19.62	1,623.43	1.115E-02	Pulse	0.30	3
Cu			2	-0.091	ug/l	-63.72	1,290.07	8.860E-03	Pulse	0.30	3
Zn			2	-0.213	ug/l	-663.82	9,277.16	6.373E-02	Pulse	0.30	3
As			2	0.234	ug/l	32.34	28.00	1.922E-04	Pulse	1.00	3
Cd			2	0.072	ug/l	86.29	26.65	2.658E-05	Pulse	0.30	3
Sn			2	2.030	ug/l	5.22	615.57	6.148E-04	Pulse	0.30	3
Se			3	0.140	ug/l	20.88	8.80	6.532E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,999,655.85	5.69	96.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,339,691.93	6.89	97.9	Analog	0.10	3
1	Ge		660,226.40	7.19	97.3	Pulse	0.10	3
1	Ge		919,437.22	7.62	97.4	Pulse	0.10	3
1	Rh		4,708,339.10	6.70	94.8	Analog	0.10	3
1	In		5,083,927.99	5.99	97.6	Analog	0.10	3
1	Tb		7,240,741.14	6.56	100.7	Analog	0.10	3
1	Ho		7,297,718.02	6.45	101.4	Analog	0.10	3
1	Bi		4,144,996.60	5.93	99.5	Analog	0.10	3
2	Sc		145,626.24	2.46	105.7	Pulse	0.30	3
2	Ge		97,026.67	1.79	104.1	Pulse	0.30	3
2	Ge		147,646.02	2.02	105.8	Pulse	0.30	3
2	Rh		2,698,547.88	1.61	100.5	Analog	0.30	3
2	In		1,000,426.27	1.71	103.8	Pulse	0.30	3
2	Tb		4,038,601.37	1.35	105.0	Analog	0.30	3
2	Ho		4,125,560.12	1.52	106.5	Analog	0.30	3
2	Bi		2,596,397.05	1.26	104.2	Analog	0.30	3
3	Sc		128,883.09	0.62	107.0	Pulse	0.30	3
3	Ge		87,970.41	0.52	107.5	Pulse	0.30	3
3	Ge		134,726.47	0.13	107.6	Pulse	0.30	3
3	Rh		1,547,757.75	0.40	102.6	Analog	0.30	3
3	Tb		3,023,332.59	0.44	104.7	Analog	0.30	3

Quantitation Report

File Name	040SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:34
Sample Name	JD49362-1
Sample Type	Sample
Comment	
Prep Dilution	2.000
Auto Dilution	N/A
Total Dilution	2.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.063	ug/l	23.12	278.68	7.574E-05	Pulse	0.25	3
B			1	22.617	ug/l	8.45	38,800.59	1.056E-02	Pulse	0.15	3
Ca			1	297168.047	ug/l	6.00	78,045,245.50	2.400E+01	Analog	0.10	3
Sr			1	563.443	ug/l	1.71	6,576,186.15	1.526E+00	Analog	0.10	3
Mo			1	0.285	ug/l	10.04	693.37	1.618E-04	Pulse	0.10	3
Ag			1	0.069	ug/l	13.04	326.70	6.925E-05	Pulse	0.10	3
Sn			1	1.007	ug/l	14.99	5,217.76	1.118E-03	Pulse	0.10	3
Sb			1	0.164	ug/l	30.77	1,310.11	1.939E-04	Pulse	0.10	3
Ba			1	19.675	ug/l	3.67	37,569.96	5.558E-03	Pulse	0.10	3
Tl			1	0.230	ug/l	4.06	2,897.04	7.645E-04	Pulse	0.10	3
Pb			1	0.068	ug/l	112.66	3,090.44	8.160E-04	Pulse	0.10	3
Pb			1	0.119	ug/l	30.21	2,653.67	6.996E-04	Pulse	0.10	3
Pb			1	0.085	ug/l	31.01	12,149.08	3.208E-03	Pulse	0.10	3
Na			2	11207.469	ug/l	2.40	3,157,221.61	2.430E+01	Analog	0.30	3
Mg			2	44101.585	ug/l	2.79	6,117,632.26	4.710E+01	Analog	0.30	3
Al			2	35.347	ug/l	10.77	1,913.47	1.471E-02	Pulse	0.30	3
K			2	9490.384	ug/l	1.37	908,795.31	6.995E+00	Pulse	0.30	3
Ca			2	323305.027	ug/l	1.38	1,666,688.37	1.283E+01	Analog	0.30	3
Ti			2	0.520	ug/l	46.65	23.33	1.796E-04	Pulse	0.30	3
V			2	0.334	ug/l	7.25	554.46	4.264E-03	Pulse	0.30	3
Cr			2	0.587	ug/l	5.55	1,031.16	7.930E-03	Pulse	0.30	3
Mn			2	7018.017	ug/l	2.80	5,847,800.46	4.502E+01	Analog	0.30	3
Fe			2	190.065	ug/l	0.98	281,602.67	2.167E+00	Pulse	0.30	3
Co			2	38.127	ug/l	3.14	98,051.38	7.549E-01	Pulse	0.30	3
Ni			2	4.367	ug/l	3.12	4,202.81	3.234E-02	Pulse	0.30	3
Cu			2	3.347	ug/l	0.15	7,509.57	5.778E-02	Pulse	0.30	3
Zn			2	103.511	ug/l	0.99	38,887.21	2.992E-01	Pulse	0.30	3
As			2	0.210	ug/l	25.78	44.00	3.383E-04	Pulse	1.00	3
Cd			2	0.462	ug/l	17.52	226.63	2.547E-04	Pulse	0.30	3
Sn			2	1.438	ug/l	6.43	1,188.95	1.336E-03	Pulse	0.30	3
Se			3	0.538	ug/l	10.79	20.93	1.681E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,665,700.90	5.47	88.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,246,713.08	4.00	95.2	Analog	0.10	3
1	Ge		615,770.04	8.18	90.8	Pulse	0.10	3
1	Ge		854,349.36	7.77	90.5	Pulse	0.10	3
1	Rh		4,305,539.73	7.85	86.7	Analog	0.10	3
1	In		4,691,434.80	6.85	90.0	Analog	0.10	3
1	Tb		6,751,109.90	8.18	93.9	Analog	0.10	3
1	Ho		6,736,446.36	7.88	93.6	Analog	0.10	3
1	Bi		3,793,165.36	7.24	91.0	Analog	0.10	3
2	Sc		129,962.38	2.92	94.3	Pulse	0.30	3
2	Ge		86,501.74	0.51	92.8	Pulse	0.30	3
2	Ge		131,361.02	0.86	94.1	Pulse	0.30	3
2	Rh		2,421,756.36	0.92	90.2	Analog	0.30	3
2	In		889,660.78	1.93	92.3	Pulse	0.30	3
2	Tb		3,677,383.19	0.90	95.6	Analog	0.30	3
2	Ho		3,763,332.91	0.25	97.2	Analog	0.30	3
2	Bi		2,334,575.67	1.40	93.7	Analog	0.30	3
3	Sc		119,928.02	1.27	99.6	Pulse	0.30	3
3	Ge		81,691.66	0.87	99.9	Pulse	0.30	3
3	Ge		124,462.89	0.70	99.4	Pulse	0.30	3
3	Rh		1,395,632.10	0.95	92.5	Analog	0.30	3
3	Tb		2,841,959.12	0.68	98.4	Analog	0.30	3

Quantitation Report

File Name	041SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:37
Sample Name	RINSECONF
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.008	ug/l	44.50	202.67	4.446E-05	Pulse	0.25	3
B			1	-1.492	ug/l	-23.39	8,880.31	1.953E-03	Pulse	0.15	3
Ca			1	428.007	ug/l	146.65	223,117.22	7.284E-02	Mix	0.10	3
Sr			1	0.636	ug/l	135.47	18,266.39	3.530E-03	Pulse	0.10	3
Mo			1	0.009	ug/l	53.98	113.34	2.126E-05	Pulse	0.10	3
Ag			1	0.044	ug/l	110.72	537.22	9.321E-05	Pulse	0.10	3
Sn			1	-0.041	ug/l	-84.94	1,353.44	2.400E-04	Pulse	0.10	3
Sb			1	-0.020	ug/l	-26.55	406.69	5.149E-05	Pulse	0.10	3
Ba			1	0.037	ug/l	107.45	180.01	2.326E-05	Pulse	0.10	3
Tl			1	-0.002	ug/l	-117.26	216.68	4.828E-05	Pulse	0.10	3
Pb			1	0.009	ug/l	288.67	3,437.18	7.637E-04	Pulse	0.10	3
Pb			1	0.038	ug/l	52.33	2,967.08	6.599E-04	Pulse	0.10	3
Pb			1	0.028	ug/l	48.19	13,896.42	3.089E-03	Pulse	0.10	3
Na			2	0.058	ug/l	72.45	2,976.97	2.084E-02	Pulse	0.30	3
Mg			2	0.616	ug/l	44.49	701.14	4.911E-03	Pulse	0.30	3
Al			2	-1.704	ug/l	-16.16	151.12	1.059E-03	Pulse	0.30	3
K			2	3.240	ug/l	60.90	8,700.13	6.091E-02	Pulse	0.30	3
Ca			2	0.376	ug/l	337.75	40.00	2.798E-04	Pulse	0.30	3
Ti			2	0.149	ug/l	110.62	16.67	1.165E-04	Pulse	0.30	3
V			2	-0.003	ug/l	-298.08	145.56	1.019E-03	Pulse	0.30	3
Cr			2	0.003	ug/l	118.68	133.34	9.336E-04	Pulse	0.30	3
Mn			2	0.047	ug/l	36.45	240.00	1.681E-03	Pulse	0.30	3
Fe			2	-8.914	ug/l	-3.88	8,259.95	5.782E-02	Pulse	0.30	3
Co			2	-0.003	ug/l	-43.64	14.42	1.008E-04	Pulse	0.30	3
Ni			2	-0.021	ug/l	-132.62	1,317.84	9.227E-03	Pulse	0.30	3
Cu			2	-0.117	ug/l	-12.27	855.59	5.991E-03	Pulse	0.30	3
Zn			2	-0.245	ug/l	-29.53	8,970.32	6.281E-02	Pulse	0.30	3
As			2	-0.002	ug/l	-883.71	10.00	7.015E-05	Pulse	1.00	3
Cd			2	-0.005	ug/l	-67.10	6.66	6.576E-06	Pulse	0.30	3
Sn			2	0.269	ug/l	6.68	303.34	2.997E-04	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	-0.080	ug/l	-8.43	2.60	1.914E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,554,658.17	2.97	109.5	Analog	0.10	3
1	Sc		3,473,004.85	12.75	101.8	Analog	0.10	3
1	Ge		743,507.77	4.02	109.6	Pulse	0.10	3
1	Ge		1,035,960.45	4.24	109.8	Pulse	0.10	3
1	Rh		5,365,922.63	4.14	108.0	Analog	0.10	3
1	In		5,669,907.46	3.52	108.8	Analog	0.10	3
1	Tb		7,918,911.55	3.59	110.1	Analog	0.10	3
1	Ho		7,871,883.63	4.07	109.4	Analog	0.10	3
1	Bi		4,498,759.62	3.94	107.9	Analog	0.10	3
2	Sc		142,828.75	0.48	103.7	Pulse	0.30	3
2	Ge		98,805.07	0.96	106.1	Pulse	0.30	3
2	Ge		148,463.26	0.83	106.3	Pulse	0.30	3
2	Rh		2,852,452.60	1.53	106.2	Analog	0.30	3
2	In		1,012,388.76	0.91	105.1	Pulse	0.30	3
2	Tb		4,057,177.06	0.70	105.4	Analog	0.30	3
2	Ho		4,139,732.06	1.15	106.9	Analog	0.30	3
2	Bi		2,636,493.79	0.80	105.8	Analog	0.30	3
3	Sc		126,250.50	0.65	104.8	Pulse	0.30	3
3	Ge		88,850.65	0.84	108.6	Pulse	0.30	3
3	Ge		135,771.71	0.45	108.4	Pulse	0.30	3
3	Rh		1,634,091.60	0.37	108.4	Analog	0.30	3
3	Tb		3,022,332.17	0.36	104.7	Analog	0.30	3

Quantitation Report

File Name	042_QC3.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:40
Sample Name	sampleconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.463	ug/l	3.16	2,920.29	6.519E-04	Pulse	0.25	3
B			1	23.797	ug/l	7.48	85,036.70	1.896E-02	Pulse	0.15	3
Ca			1	255.789	ug/l	1.52	162,863.99	4.502E-02	Pulse	0.10	3
Sr			1	5.013	ug/l	1.12	142,289.76	2.724E-02	Pulse	0.10	3
Mo			1	0.983	ug/l	2.67	5,471.15	1.048E-03	Pulse	0.10	3
Ag			1	0.486	ug/l	7.29	6,471.61	1.173E-03	Pulse	0.10	3
Sn			1	4.538	ug/l	2.76	42,013.89	7.619E-03	Pulse	0.10	3
Sb			1	1.857	ug/l	2.09	20,303.82	2.672E-03	Pulse	0.10	3
Ba			1	0.988	ug/l	6.97	4,254.11	5.607E-04	Pulse	0.10	3
Tl			1	0.477	ug/l	0.79	13,092.92	2.982E-03	Pulse	0.10	3
Pb			1	0.485	ug/l	10.48	7,759.02	1.764E-03	Pulse	0.10	3
Pb			1	0.527	ug/l	1.56	6,845.15	1.559E-03	Pulse	0.10	3
Pb			1	0.507	ug/l	4.20	31,300.78	7.123E-03	Pulse	0.10	3
Na			2	248.670	ug/l	0.38	161,791.80	1.098E+00	Pulse	0.30	3
Mg			2	242.767	ug/l	0.29	76,909.80	5.220E-01	Pulse	0.30	3
Al			2	28.741	ug/l	7.57	3,315.93	2.250E-02	Pulse	0.30	3
K			2	252.039	ug/l	1.06	62,568.43	4.247E-01	Pulse	0.30	3
Ca			2	291.317	ug/l	8.05	3,442.63	2.337E-02	Pulse	0.30	3
Ti			2	1.020	ug/l	20.13	90.00	6.108E-04	Pulse	0.30	3
V			2	1.065	ug/l	2.12	3,155.89	2.142E-02	Pulse	0.30	3
Cr			2	1.081	ug/l	2.64	3,962.74	2.690E-02	Pulse	0.30	3
Mn			2	1.046	ug/l	6.09	2,134.62	1.449E-02	Pulse	0.30	3
Fe			2	17.841	ug/l	4.61	88,511.77	6.007E-01	Pulse	0.30	3
Co			2	0.524	ug/l	0.96	3,088.98	2.097E-02	Pulse	0.30	3
Ni			2	1.117	ug/l	3.60	3,118.11	2.116E-02	Pulse	0.30	3
Cu			2	2.264	ug/l	4.35	11,028.25	7.487E-02	Pulse	0.30	3
Zn			2	11.175	ug/l	1.29	16,901.07	1.147E-01	Pulse	0.30	3
As			2	0.503	ug/l	6.04	196.67	1.335E-03	Pulse	1.00	3
Cd			2	0.477	ug/l	3.59	527.43	5.135E-04	Pulse	0.30	3
Sn			2	4.999	ug/l	4.37	11,504.30	1.121E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.395	ug/l	5.48	30.13	2.217E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,479,399.68	3.29	107.7	Analog	0.10	3
1	Sc		3,617,599.53	6.07	106.0	Analog	0.10	3
1	Ge		724,031.89	4.94	106.7	Pulse	0.10	3
1	Ge		1,008,354.41	5.49	106.8	Pulse	0.10	3
1	Rh		5,221,604.92	5.27	105.1	Analog	0.10	3
1	In		5,512,158.77	5.31	105.8	Analog	0.10	3
1	Tb		7,595,023.22	5.27	105.6	Analog	0.10	3
1	Ho		7,606,406.14	5.49	105.7	Analog	0.10	3
1	Bi		4,391,222.12	4.34	105.4	Analog	0.10	3
2	Sc		147,322.65	0.57	106.9	Pulse	0.30	3
2	Ge		99,902.65	0.84	107.2	Pulse	0.30	3
2	Ge		150,841.34	1.20	108.1	Pulse	0.30	3
2	Rh		2,832,138.57	0.92	105.5	Analog	0.30	3
2	In		1,026,921.87	1.13	106.6	Pulse	0.30	3
2	Tb		4,081,072.34	0.29	106.1	Analog	0.30	3
2	Ho		4,128,464.14	0.07	106.6	Analog	0.30	3
2	Bi		2,646,721.70	0.85	106.2	Analog	0.30	3
3	Sc		128,812.09	0.71	106.9	Pulse	0.30	3
3	Ge		88,586.98	0.68	108.3	Pulse	0.30	3
3	Ge		135,889.28	0.27	108.5	Pulse	0.30	3
3	Rh		1,612,867.61	1.20	107.0	Analog	0.30	3
3	Tb		3,027,632.80	0.22	104.9	Analog	0.30	3

Quantitation Report

File Name	043SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:44
Sample Name	mp34484-mb1 4
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.007	ug/l	-175.80	141.33	3.168E-05	Pulse	0.25	3
B			1	-0.512	ug/l	-125.30	12,876.65	2.887E-03	Pulse	0.15	3
Ca			1	63.194	ug/l	11.95	20,977.19	5.748E-03	Pulse	0.10	3
Sr			1	0.554	ug/l	9.04	3,593.86	6.829E-04	Pulse	0.10	3
Mo			1	0.220	ug/l	25.41	306.68	5.797E-05	Pulse	0.10	3
Ag			1	0.103	ug/l	24.10	193.34	3.529E-05	Pulse	0.10	3
Sn			1	17.166	ug/l	1.38	32,290.73	5.839E-03	Pulse	0.10	3
Sb			1	0.058	ug/l	163.66	733.38	9.574E-05	Pulse	0.10	3
Ba			1	0.355	ug/l	33.78	330.02	4.279E-05	Pulse	0.10	3
Tl			1	-0.017	ug/l	-72.52	166.67	3.758E-05	Pulse	0.10	3
Pb			1	0.065	ug/l	73.87	3,457.21	7.718E-04	Pulse	0.10	3
Pb			1	0.219	ug/l	54.68	3,007.09	6.707E-04	Pulse	0.10	3
Pb			1	0.127	ug/l	11.99	13,713.02	3.063E-03	Pulse	0.10	3
Na			2	85.185	ug/l	2.84	13,940.31	9.442E-02	Pulse	0.30	3
Mg			2	25.218	ug/l	5.52	2,120.16	1.437E-02	Pulse	0.30	3
Al			2	-4.015	ug/l	-10.32	250.01	1.694E-03	Pulse	0.30	3
K			2	38.009	ug/l	17.48	9,931.94	6.729E-02	Pulse	0.30	3
Ca			2	117.597	ug/l	8.99	312.23	2.116E-03	Pulse	0.30	3
Ti			2	0.641	ug/l	93.32	15.56	1.049E-04	Pulse	0.30	3
V			2	0.131	ug/l	42.51	232.23	1.573E-03	Pulse	0.30	3
Cr			2	0.670	ug/l	12.34	603.35	4.088E-03	Pulse	0.30	3
Mn			2	0.309	ug/l	36.33	275.56	1.867E-03	Pulse	0.30	3
Fe			2	-32.304	ug/l	-2.71	15,883.39	1.076E-01	Pulse	0.30	3
Co			2	-0.004	ug/l	-459.73	28.85	1.946E-04	Pulse	0.30	3
Ni			2	-0.029	ug/l	-1160.48	1,385.63	9.391E-03	Pulse	0.30	3
Cu			2	1.028	ug/l	14.29	2,263.51	1.533E-02	Pulse	0.30	3
Zn			2	13.233	ug/l	9.45	11,210.60	7.595E-02	Pulse	0.30	3
As			2	0.026	ug/l	309.35	13.00	8.780E-05	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	-0.018	ug/l	-132.87	7.76	7.688E-06	Pulse	0.30	3
Sn			2	19.102	ug/l	2.54	8,553.53	8.488E-03	Pulse	0.30	3
Se			3	-0.348	ug/l	-10.28	3.20	2.374E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,461,370.77	2.97	107.3	Analog	0.10	3
1	Sc		3,653,148.17	4.27	107.1	Analog	0.10	3
1	Ge		729,221.06	3.49	107.5	Pulse	0.10	3
1	Ge		1,016,066.05	4.60	107.7	Pulse	0.10	3
1	Rh		5,271,390.55	4.06	106.1	Analog	0.10	3
1	In		5,528,685.26	4.18	106.1	Analog	0.10	3
1	Tb		7,718,798.84	4.48	107.3	Analog	0.10	3
1	Ho		7,682,716.34	4.81	106.8	Analog	0.10	3
1	Bi		4,476,930.46	3.51	107.4	Analog	0.10	3
2	Sc		147,616.50	0.99	107.1	Pulse	0.30	3
2	Ge		98,904.23	0.65	106.2	Pulse	0.30	3
2	Ge		149,583.26	0.46	107.2	Pulse	0.30	3
2	Rh		2,834,655.44	1.38	105.6	Analog	0.30	3
2	In		1,007,796.21	0.61	104.6	Pulse	0.30	3
2	Tb		4,053,591.92	0.09	105.4	Analog	0.30	3
2	Ho		4,163,301.64	0.66	107.5	Analog	0.30	3
2	Bi		2,672,889.97	0.23	107.2	Analog	0.30	3
3	Sc		127,906.10	0.73	106.2	Pulse	0.30	3
3	Ge		88,689.75	1.18	108.4	Pulse	0.30	3
3	Ge		134,836.69	1.43	107.7	Pulse	0.30	3
3	Rh		1,614,589.66	1.16	107.1	Analog	0.30	3
3	Tb		3,006,589.05	0.60	104.2	Analog	0.30	3

Quantitation Report

File Name	044SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:48
Sample Name	mp34484-b1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	167.028	ug/l	3.14	190,666.16	4.465E-02	Pulse	0.25	3
B			1	142.849	ug/l	13.37	94,941.44	2.217E-02	Pulse	0.15	3
Ca			1	8546.593	ug/l	1.94	996,329.99	2.798E-01	Pulse	0.10	3
Sr			1	172.558	ug/l	1.38	934,123.95	1.870E-01	Pulse	0.10	3
Mo			1	169.850	ug/l	2.15	179,074.32	3.584E-02	Pulse	0.10	3
Ag			1	79.367	ug/l	2.25	204,004.68	3.878E-02	Pulse	0.10	3
Sn			1	181.836	ug/l	2.56	309,876.57	5.890E-02	Pulse	0.10	3
Sb			1	174.501	ug/l	2.95	358,531.46	4.881E-02	Pulse	0.10	3
Ba			1	170.196	ug/l	3.31	141,258.80	1.923E-02	Pulse	0.10	3
Tl			1	171.587	ug/l	1.99	884,145.20	2.105E-01	Pulse	0.10	3
Pb			1	172.766	ug/l	0.77	308,276.52	7.342E-02	Pulse	0.10	3
Pb			1	170.786	ug/l	1.47	266,021.25	6.333E-02	Pulse	0.10	3
Pb			1	172.482	ug/l	1.02	1,233,391.58	2.937E-01	Pulse	0.10	3
Na			2	8410.590	ug/l	0.65	1,087,448.18	7.310E+00	Pulse	0.30	3
Mg			2	8212.974	ug/l	0.69	522,393.47	3.512E+00	Pulse	0.30	3
Al			2	8409.223	ug/l	0.81	176,557.49	1.187E+00	Pulse	0.30	3
K			2	8348.011	ug/l	0.73	371,528.99	2.497E+00	Pulse	0.30	3
Ca			2	9280.523	ug/l	1.39	21,946.83	1.475E-01	Pulse	0.30	3
Ti			2	174.128	ug/l	1.83	2,942.52	1.978E-02	Pulse	0.30	3
V			2	171.525	ug/l	1.30	97,689.14	6.567E-01	Pulse	0.30	3
Cr			2	173.596	ug/l	0.63	124,528.16	8.371E-01	Pulse	0.30	3
Mn			2	171.229	ug/l	0.40	65,521.30	4.404E-01	Pulse	0.30	3
Fe			2	8601.855	ug/l	1.20	5,228,992.57	3.515E+01	Analog	0.30	3
Co			2	172.844	ug/l	0.30	203,615.81	1.369E+00	Pulse	0.30	3
Ni			2	172.952	ug/l	0.91	55,344.78	3.720E-01	Pulse	0.30	3
Cu			2	171.215	ug/l	1.68	148,695.63	9.996E-01	Pulse	0.30	3
Zn			2	182.173	ug/l	2.79	34,147.81	2.296E-01	Pulse	0.30	3
As			2	172.280	ug/l	0.29	12,844.05	8.634E-02	Pulse	1.00	3
Cd			2	172.049	ug/l	2.04	36,815.43	3.623E-02	Pulse	0.30	3
Sn			2	184.661	ug/l	0.31	86,214.73	8.483E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	434.271	ug/l	0.18	5,004.63	3.707E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,265,683.74	5.13	102.6	Analog	0.10	3
1	Sc		3,557,586.93	6.93	104.3	Analog	0.10	3
1	Ge		697,651.89	8.01	102.9	Pulse	0.10	3
1	Ge		972,124.96	7.89	103.0	Pulse	0.10	3
1	Rh		4,992,205.45	7.72	100.5	Analog	0.10	3
1	In		5,254,694.52	6.93	100.8	Analog	0.10	3
1	Tb		7,337,995.10	6.76	102.1	Analog	0.10	3
1	Ho		7,322,410.93	6.93	101.8	Analog	0.10	3
1	Bi		4,197,723.58	6.96	100.7	Analog	0.10	3
2	Sc		148,762.68	0.60	108.0	Pulse	0.30	3
2	Ge		99,295.85	0.55	106.6	Pulse	0.30	3
2	Ge		149,055.76	0.60	106.8	Pulse	0.30	3
2	Rh		2,766,514.68	0.19	103.0	Analog	0.30	3
2	In		1,016,246.58	1.26	105.5	Pulse	0.30	3
2	Tb		4,024,826.09	0.39	104.6	Analog	0.30	3
2	Ho		4,119,183.86	1.31	106.4	Analog	0.30	3
2	Bi		2,595,527.60	0.54	104.1	Analog	0.30	3
3	Sc		130,687.61	1.29	108.5	Pulse	0.30	3
3	Ge		88,440.88	0.90	108.1	Pulse	0.30	3
3	Ge		134,993.70	0.56	107.8	Pulse	0.30	3
3	Rh		1,563,844.10	0.54	103.7	Analog	0.30	3
3	Tb		3,012,025.30	0.74	104.3	Analog	0.30	3

Quantitation Report

File Name	045SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:51
Sample Name	JD49369-1
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	7.724	ug/l	21.77	4,543.35	1.065E-03	Pulse	0.25	3
B			1	37.786	ug/l	5.07	23,549.99	5.497E-03	Pulse	0.15	3
Ca			1	396235.315	ug/l	5.31	22,676,605.50	6.404E+00	Analog	0.10	3
Sr			1	889.195	ug/l	0.40	2,387,805.69	4.818E-01	Analog	0.10	3
Mo			1	9.258	ug/l	36.43	4,824.31	9.878E-04	Pulse	0.10	3
Ag			1	2.265	ug/l	76.70	2,753.77	5.387E-04	Pulse	0.10	3
Sn			1	47.152	ug/l	3.72	41,762.80	7.904E-03	Pulse	0.10	3
Sb			1	4.265	ug/l	56.76	4,997.74	6.750E-04	Pulse	0.10	3
Ba			1	487.284	ug/l	0.47	207,697.74	2.752E-02	Pulse	0.10	3
Tl			1	3.917	ug/l	65.08	10,181.55	2.460E-03	Pulse	0.10	3
Pb			1	383.744	ug/l	0.38	346,541.52	8.145E-02	Pulse	0.10	3
Pb			1	370.286	ug/l	0.22	291,935.79	6.861E-02	Pulse	0.10	3
Pb			1	375.684	ug/l	0.58	1,359,818.96	3.196E-01	Pulse	0.10	3
Na			2	2215.108	ug/l	0.67	148,098.53	9.805E-01	Pulse	0.30	3
Mg			2	69789.323	ug/l	1.05	2,251,600.19	1.491E+01	Analog	0.30	3
Al			2	127606.829	ug/l	1.59	1,357,914.84	8.990E+00	Analog	0.30	3
K			2	21581.422	ug/l	0.23	485,118.30	3.212E+00	Pulse	0.30	3
Ca			2	390000.870	ug/l	0.57	467,465.85	3.095E+00	Pulse	0.30	3
Ti			2	5803.180	ug/l	1.52	49,711.92	3.291E-01	Pulse	0.30	3
V			2	216.968	ug/l	0.59	62,793.72	4.157E-01	Pulse	0.30	3
Cr			2	217.863	ug/l	0.81	79,382.93	5.256E-01	Pulse	0.30	3
Mn			2	2499.531	ug/l	0.25	484,526.66	3.208E+00	Pulse	0.30	3
Fe			2	118580.110	ug/l	0.18	36,381,585.22	2.409E+02	Analog	0.30	3
Co			2	46.748	ug/l	1.11	27,986.92	1.853E-01	Pulse	0.30	3
Ni			2	105.052	ug/l	3.53	18,056.65	1.196E-01	Pulse	0.30	3
Cu			2	164.592	ug/l	0.43	73,303.29	4.853E-01	Pulse	0.30	3
Zn			2	745.218	ug/l	1.08	60,823.33	4.027E-01	Pulse	0.30	3
As			2	28.968	ug/l	2.57	1,106.71	7.327E-03	Pulse	1.00	3
Cd			2	1.394	ug/l	21.63	157.57	1.582E-04	Pulse	0.30	3
Sn			2	50.668	ug/l	1.81	11,307.51	1.136E-02	Pulse	0.30	3
Se			3	4.863	ug/l	5.27	34.40	2.607E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,282,769.15	3.31	103.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,554,919.63	11.55	104.2	Analog	0.10	3
1	Ge		704,915.12	6.59	103.9	Pulse	0.10	3
1	Ge		979,618.24	6.39	103.8	Pulse	0.10	3
1	Rh		4,955,613.57	6.17	99.7	Analog	0.10	3
1	In		5,291,669.19	6.66	101.5	Analog	0.10	3
1	Tb		7,547,428.64	5.84	105.0	Analog	0.10	3
1	Ho		7,510,657.18	5.61	104.4	Analog	0.10	3
1	Bi		4,255,218.48	6.52	102.1	Analog	0.10	3
2	Sc		151,044.71	1.23	109.6	Pulse	0.30	3
2	Ge		98,397.86	1.10	105.6	Pulse	0.30	3
2	Ge		147,824.48	0.62	105.9	Pulse	0.30	3
2	Rh		2,697,934.62	1.16	100.5	Analog	0.30	3
2	In		995,128.51	1.27	103.3	Pulse	0.30	3
2	Tb		4,028,822.62	0.74	104.7	Analog	0.30	3
2	Ho		4,068,793.03	0.23	105.1	Analog	0.30	3
2	Bi		2,582,351.01	0.92	103.6	Analog	0.30	3
3	Sc		131,595.54	0.52	109.3	Pulse	0.30	3
3	Ge		87,275.63	1.10	106.7	Pulse	0.30	3
3	Ge		131,990.16	0.56	105.4	Pulse	0.30	3
3	Rh		1,518,594.49	0.89	100.7	Analog	0.30	3
3	Tb		2,991,140.30	1.08	103.6	Analog	0.30	3

Quantitation Report

File Name	046_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:55
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	49.914	ug/l	2.90	266,983.72	6.670E-02	Pulse	0.25	3
B			1	88.935	ug/l	12.57	252,152.90	6.276E-02	Pulse	0.15	3
Ca			1	5156.840	ug/l	0.58	2,923,805.48	8.367E-01	Analog	0.10	3
Sr			1	51.427	ug/l	0.88	1,323,315.58	2.787E-01	Analog	0.10	3
Mo			1	50.388	ug/l	1.77	252,474.95	5.315E-02	Pulse	0.10	3
Ag			1	51.815	ug/l	2.11	631,714.48	1.266E-01	Pulse	0.10	3
Sn			1	50.149	ug/l	2.37	404,652.32	8.111E-02	Pulse	0.10	3
Sb			1	51.626	ug/l	2.68	512,111.33	7.216E-02	Pulse	0.10	3
Ba			1	49.492	ug/l	0.36	198,168.49	2.795E-02	Pulse	0.10	3
Tl			1	50.613	ug/l	2.69	1,239,036.54	3.104E-01	Analog	0.10	3
Pb			1	50.966	ug/l	1.62	430,727.45	1.079E-01	Pulse	0.10	3
Pb			1	50.450	ug/l	1.36	372,117.95	9.326E-02	Pulse	0.10	3
Pb			1	50.818	ug/l	1.52	1,721,283.25	4.313E-01	Pulse	0.10	3
Na			2	5147.115	ug/l	1.77	3,299,635.57	2.233E+01	Analog	0.30	3
Mg			2	5136.155	ug/l	1.66	1,621,656.15	1.097E+01	Analog	0.30	3
Al			2	5087.090	ug/l	1.34	529,884.35	3.585E+00	Pulse	0.30	3
K			2	5080.985	ug/l	1.56	1,106,321.93	7.486E+00	Pulse	0.30	3
Ca			2	5204.668	ug/l	0.54	61,089.04	4.133E-01	Pulse	0.30	3
Ti			2	50.086	ug/l	1.41	4,202.82	2.844E-02	Pulse	0.30	3
V			2	50.574	ug/l	1.06	143,018.79	9.676E-01	Pulse	0.30	3
Cr			2	50.174	ug/l	1.23	178,738.42	1.209E+00	Pulse	0.30	3
Mn			2	49.756	ug/l	0.17	94,521.14	6.394E-01	Pulse	0.30	3
Fe			2	5146.687	ug/l	1.16	15,471,672.72	1.047E+02	Analog	0.30	3
Co			2	49.915	ug/l	0.65	292,107.07	1.976E+00	Pulse	0.30	3
Ni			2	49.765	ug/l	1.46	78,495.41	5.311E-01	Pulse	0.30	3
Cu			2	49.064	ug/l	0.94	211,093.39	1.428E+00	Pulse	0.30	3
Zn			2	47.022	ug/l	2.45	41,039.13	2.777E-01	Pulse	0.30	3
As			2	50.769	ug/l	1.80	18,795.80	1.272E-01	Pulse	1.00	3
Cd			2	50.636	ug/l	0.82	52,681.84	5.331E-02	Pulse	0.30	3
Sn			2	50.883	ug/l	1.23	115,606.61	1.170E-01	Pulse	0.30	3
Se			3	204.567	ug/l	0.82	11,601.76	8.725E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,998,552.27	5.98	96.1	Analog	0.10	3
1	Sc		3,494,144.32	3.77	102.4	Analog	0.10	3
1	Ge		671,667.66	8.33	99.0	Pulse	0.10	3

Quantitation Report

1	Ge		937,763.40	8.57	99.4	Pulse	0.10	3
1	Rh		4,746,372.43	7.42	95.5	Analog	0.10	3
1	In		4,983,290.86	7.25	95.6	Analog	0.10	3
1	Tb		7,088,413.85	7.19	98.6	Analog	0.10	3
1	Ho		7,031,845.94	7.10	97.7	Analog	0.10	3
1	Bi		3,988,142.34	6.21	95.7	Analog	0.10	3
2	Sc		147,822.22	1.89	107.3	Pulse	0.30	3
2	Ge		96,844.77	0.82	104.0	Pulse	0.30	3
2	Ge		146,150.03	0.83	104.7	Pulse	0.30	3
2	Rh		2,663,685.80	0.48	99.2	Analog	0.30	3
2	In		988,196.46	1.54	102.5	Pulse	0.30	3
2	Tb		3,895,113.46	0.63	101.2	Analog	0.30	3
2	Ho		3,980,595.12	0.78	102.8	Analog	0.30	3
2	Bi		2,493,194.07	0.32	100.0	Analog	0.30	3
3	Sc		131,094.70	0.18	108.8	Pulse	0.30	3
3	Ge		87,343.85	0.96	106.8	Pulse	0.30	3
3	Ge		132,981.78	0.50	106.2	Pulse	0.30	3
3	Rh		1,536,383.20	0.44	101.9	Analog	0.30	3
3	Tb		2,956,325.92	0.77	102.4	Analog	0.30	3

Quantitation Report

File Name	047BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 12:58
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.214	ug/l	132.11	1,280.14	3.196E-04	Pulse	0.25	3
B			1	8.322	ug/l	22.51	35,226.04	8.553E-03	Pulse	0.15	3
Ca			1	7.344	ug/l	399.89	15,811.58	4.893E-03	Pulse	0.10	3
Sr			1	0.197	ug/l	145.94	5,276.04	1.148E-03	Pulse	0.10	3
Mo			1	0.443	ug/l	104.81	2,237.04	4.790E-04	Pulse	0.10	3
Ag			1	0.348	ug/l	129.25	4,118.33	8.354E-04	Pulse	0.10	3
Sn			1	0.866	ug/l	56.22	8,696.35	1.703E-03	Pulse	0.10	3
Sb			1	0.303	ug/l	107.73	3,437.40	5.033E-04	Pulse	0.10	3
Ba			1	0.187	ug/l	133.72	723.40	1.081E-04	Pulse	0.10	3
Tl			1	0.326	ug/l	116.14	8,025.04	2.059E-03	Pulse	0.10	3
Pb			1	0.184	ug/l	126.63	4,547.63	1.131E-03	Pulse	0.10	3
Pb			1	0.197	ug/l	153.42	3,804.11	9.517E-04	Pulse	0.10	3
Pb			1	0.196	ug/l	135.67	18,039.23	4.497E-03	Pulse	0.10	3
Na			2	-0.110	ug/l	-344.78	2,853.61	2.012E-02	Pulse	0.30	3
Mg			2	0.133	ug/l	78.98	550.02	3.878E-03	Pulse	0.30	3
Al			2	-0.727	ug/l	-9.28	247.78	1.747E-03	Pulse	0.30	3
K			2	1.780	ug/l	65.79	8,335.49	5.878E-02	Pulse	0.30	3
Ca			2	1.095	ug/l	55.83	47.78	3.368E-04	Pulse	0.30	3
Ti			2	0.358	ug/l	40.59	33.34	2.352E-04	Pulse	0.30	3
V			2	-0.008	ug/l	-101.83	130.00	9.163E-04	Pulse	0.30	3
Cr			2	0.004	ug/l	36.80	136.67	9.636E-04	Pulse	0.30	3
Mn			2	-0.018	ug/l	-102.78	120.00	8.466E-04	Pulse	0.30	3
Fe			2	4.531	ug/l	37.82	46,885.71	3.306E-01	Pulse	0.30	3
Co			2	0.000	ug/l	628.46	34.32	2.419E-04	Pulse	0.30	3
Ni			2	-0.110	ug/l	-29.88	1,177.83	8.304E-03	Pulse	0.30	3
Cu			2	-0.059	ug/l	-39.98	1,090.05	7.688E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.406	ug/l	-72.47	8,803.56	6.207E-02	Pulse	0.30	3
As			2	0.055	ug/l	46.94	30.33	2.138E-04	Pulse	1.00	3
Cd			2	0.007	ug/l	135.20	18.86	1.907E-05	Pulse	0.30	3
Sn			2	0.729	ug/l	3.27	1,344.52	1.360E-03	Pulse	0.30	3
Se			3	0.257	ug/l	12.33	21.20	1.631E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,136,567.35	4.46	99.5	Analog	0.10	3
1	Sc		3,380,639.22	7.21	99.1	Analog	0.10	3
1	Ge		677,024.99	7.57	99.8	Pulse	0.10	3
1	Ge		941,594.13	7.58	99.8	Pulse	0.10	3
1	Rh		4,911,722.63	7.37	98.9	Analog	0.10	3
1	In		5,206,863.28	6.47	99.9	Analog	0.10	3
1	Tb		7,158,351.35	7.65	99.6	Analog	0.10	3
1	Ho		7,135,850.94	6.69	99.2	Analog	0.10	3
1	Bi		4,098,237.96	6.85	98.3	Analog	0.10	3
2	Sc		141,824.56	0.41	102.9	Pulse	0.30	3
2	Ge		95,290.84	1.14	102.3	Pulse	0.30	3
2	Ge		144,049.17	0.19	103.2	Pulse	0.30	3
2	Rh		2,753,774.33	1.01	102.6	Analog	0.30	3
2	In		988,335.34	0.61	102.6	Pulse	0.30	3
2	Tb		3,930,236.23	0.87	102.1	Analog	0.30	3
2	Ho		4,018,294.15	1.03	103.8	Analog	0.30	3
2	Bi		2,582,897.12	1.15	103.6	Analog	0.30	3
3	Sc		123,436.51	0.46	102.5	Pulse	0.30	3
3	Ge		84,900.09	0.40	103.8	Pulse	0.30	3
3	Ge		129,908.37	0.85	103.7	Pulse	0.30	3
3	Rh		1,545,778.31	0.41	102.5	Analog	0.30	3
3	Tb		2,958,476.13	1.61	102.5	Analog	0.30	3

Quantitation Report

File Name	048SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:01
Sample Name	mp34484-s1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	171.031	ug/l	4.72	194,130.78	4.572E-02	Pulse	0.25	3
B			1	174.259	ug/l	15.17	112,389.94	2.639E-02	Pulse	0.15	3
Ca			1	50351.448	ug/l	0.85	5,963,689.70	1.630E+00	Analog	0.10	3
Sr			1	353.081	ug/l	1.53	1,862,937.21	3.826E-01	Analog	0.10	3
Mo			1	147.903	ug/l	2.28	151,998.53	3.121E-02	Pulse	0.10	3
Ag			1	12.293	ug/l	7.23	30,961.50	5.995E-03	Pulse	0.10	3
Sn			1	110.663	ug/l	2.30	185,389.61	3.597E-02	Pulse	0.10	3
Sb			1	12.286	ug/l	0.98	25,554.20	3.510E-03	Pulse	0.10	3
Ba			1	2351.444	ug/l	1.41	1,934,191.28	2.656E-01	Analog	0.10	3
Tl			1	170.300	ug/l	1.47	853,425.90	2.089E-01	Pulse	0.10	3
Pb			1	1273.183	ug/l	1.19	2,190,216.84	5.363E-01	Analog	0.10	3
Pb			1	1238.546	ug/l	1.70	1,859,896.01	4.556E-01	Analog	0.10	3
Pb			1	1236.793	ug/l	1.66	8,528,476.22	2.089E+00	Analog	0.10	3
Na			2	9209.913	ug/l	2.58	1,173,717.94	8.003E+00	Mix	0.30	3
Mg			2	47397.007	ug/l	0.49	2,969,366.76	2.025E+01	Analog	0.30	3
Al			2	100068.488	ug/l	0.82	2,067,488.32	1.410E+01	Analog	0.30	3
K			2	27705.836	ug/l	2.84	1,196,727.14	8.158E+00	Mix	0.30	3
Ca			2	51309.465	ug/l	1.42	119,438.59	8.146E-01	Pulse	0.30	3
Ti			2	1714.745	ug/l	2.12	28,519.03	1.945E-01	Pulse	0.30	3
V			2	328.469	ug/l	1.86	184,249.63	1.257E+00	Pulse	0.30	3
Cr			2	290.351	ug/l	1.68	205,203.07	1.400E+00	Pulse	0.30	3
Mn			2	2694.528	ug/l	0.60	1,014,029.89	6.915E+00	Pulse	0.30	3
Fe			2	98406.323	ug/l	0.50	58,606,384.34	3.996E+02	Analog	0.30	3
Co			2	199.610	ug/l	0.76	231,782.10	1.581E+00	Pulse	0.30	3
Ni			2	242.966	ug/l	0.22	76,083.17	5.188E-01	Pulse	0.30	3
Cu			2	572.913	ug/l	0.58	487,238.77	3.323E+00	Pulse	0.30	3
Zn			2	2153.757	ug/l	0.89	296,524.70	2.022E+00	Pulse	0.30	3
As			2	207.052	ug/l	1.38	15,212.75	1.038E-01	Pulse	1.00	3
Cd			2	169.639	ug/l	0.72	34,089.19	3.572E-02	Pulse	0.30	3
Sn			2	116.376	ug/l	1.07	50,902.35	5.335E-02	Pulse	0.30	3
Se			3	424.008	ug/l	0.90	4,253.22	3.620E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,239,687.79	4.87	101.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,657,836.61	6.88	107.2	Analog	0.10	3
1	Ge		693,716.00	6.99	102.3	Pulse	0.10	3
1	Ge		959,897.07	6.45	101.7	Pulse	0.10	3
1	Rh		4,866,989.41	6.47	98.0	Analog	0.10	3
1	In		5,149,495.28	6.21	98.8	Analog	0.10	3
1	Tb		7,279,285.72	5.55	101.2	Analog	0.10	3
1	Ho		7,312,420.72	5.66	101.6	Analog	0.10	3
1	Bi		4,083,360.36	6.09	98.0	Analog	0.10	3
2	Sc		146,648.47	1.45	106.4	Pulse	0.30	3
2	Ge		95,458.80	0.94	102.5	Pulse	0.30	3
2	Ge		143,255.89	1.16	102.6	Pulse	0.30	3
2	Rh		2,579,390.80	1.02	96.1	Analog	0.30	3
2	In		954,234.61	0.74	99.0	Pulse	0.30	3
2	Tb		3,799,682.35	2.40	98.8	Analog	0.30	3
2	Ho		3,875,048.87	1.26	100.1	Analog	0.30	3
2	Bi		2,428,848.65	1.18	97.5	Analog	0.30	3
3	Sc		117,652.93	2.76	97.7	Pulse	0.30	3
3	Ge		77,905.47	3.24	95.2	Pulse	0.30	3
3	Ge		117,520.37	3.15	93.8	Pulse	0.30	3
3	Rh		1,331,436.23	7.05	88.3	Mix	0.30	3
3	Tb		2,634,848.99	2.83	91.3	Analog	0.30	3

Quantitation Report

File Name	049SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:04
Sample Name	mp34484-s2
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	168.101	ug/l	2.39	188,874.51	4.494E-02	Pulse	0.25	3
B			1	186.581	ug/l	10.26	118,153.10	2.805E-02	Pulse	0.15	3
Ca			1	48601.780	ug/l	0.44	5,703,653.04	1.574E+00	Analog	0.10	3
Sr			1	337.056	ug/l	1.37	1,782,695.60	3.653E-01	Analog	0.10	3
Mo			1	148.529	ug/l	0.90	152,882.26	3.134E-02	Pulse	0.10	3
Ag			1	9.453	ug/l	0.98	23,508.18	4.606E-03	Pulse	0.10	3
Sn			1	110.229	ug/l	2.07	183,011.98	3.583E-02	Pulse	0.10	3
Sb			1	10.672	ug/l	0.89	22,176.28	3.060E-03	Pulse	0.10	3
Ba			1	2238.225	ug/l	0.88	1,831,097.68	2.528E-01	Analog	0.10	3
Tl			1	165.685	ug/l	0.60	830,428.79	2.032E-01	Pulse	0.10	3
Pb			1	1204.926	ug/l	1.30	2,073,182.63	5.076E-01	Analog	0.10	3
Pb			1	1180.145	ug/l	1.86	1,772,755.44	4.341E-01	Analog	0.10	3
Pb			1	1170.770	ug/l	1.49	8,074,321.13	1.977E+00	Analog	0.10	3
Na			2	9208.711	ug/l	1.87	1,205,421.96	8.002E+00	Analog	0.30	3
Mg			2	46388.470	ug/l	0.64	2,985,590.16	1.982E+01	Analog	0.30	3
Al			2	97655.325	ug/l	1.20	2,072,674.50	1.376E+01	Analog	0.30	3
K			2	26664.321	ug/l	0.90	1,183,245.34	7.854E+00	Mix	0.30	3
Ca			2	49854.418	ug/l	1.43	119,240.55	7.915E-01	Pulse	0.30	3
Ti			2	1641.508	ug/l	1.27	28,053.78	1.862E-01	Pulse	0.30	3
V			2	325.729	ug/l	0.33	187,734.83	1.246E+00	Pulse	0.30	3
Cr			2	281.496	ug/l	1.42	204,417.92	1.357E+00	Pulse	0.30	3
Mn			2	2616.093	ug/l	1.04	1,011,488.95	6.714E+00	Pulse	0.30	3
Fe			2	96306.415	ug/l	0.80	58,920,117.66	3.911E+02	Analog	0.30	3
Co			2	197.026	ug/l	1.03	235,056.61	1.560E+00	Pulse	0.30	3
Ni			2	244.367	ug/l	1.58	78,604.95	5.218E-01	Pulse	0.30	3
Cu			2	554.770	ug/l	1.15	484,772.06	3.218E+00	Pulse	0.30	3
Zn			2	2092.603	ug/l	1.23	296,281.61	1.967E+00	Pulse	0.30	3
As			2	208.415	ug/l	1.07	15,733.58	1.044E-01	Pulse	1.00	3
Cd			2	165.279	ug/l	1.46	34,844.93	3.481E-02	Pulse	0.30	3
Sn			2	108.064	ug/l	1.33	49,567.63	4.951E-02	Pulse	0.30	3
Se			3	410.393	ug/l	1.80	4,546.03	3.504E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,199,875.89	4.96	101.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,624,672.97	6.09	106.2	Analog	0.10	3
1	Ge		695,960.77	6.48	102.6	Pulse	0.10	3
1	Ge		969,867.82	6.72	102.8	Pulse	0.10	3
1	Rh		4,879,327.22	6.49	98.2	Analog	0.10	3
1	In		5,105,486.78	6.75	98.0	Analog	0.10	3
1	Tb		7,245,934.48	6.39	100.8	Analog	0.10	3
1	Ho		7,237,821.56	7.00	100.6	Analog	0.10	3
1	Bi		4,085,846.92	6.24	98.0	Analog	0.10	3
2	Sc		150,656.76	0.87	109.3	Pulse	0.30	3
2	Ge		100,306.33	1.20	107.7	Pulse	0.30	3
2	Ge		150,171.53	1.10	107.6	Pulse	0.30	3
2	Rh		2,680,604.27	0.27	99.8	Analog	0.30	3
2	In		1,001,256.24	1.57	103.9	Pulse	0.30	3
2	Tb		3,904,106.93	0.69	101.5	Analog	0.30	3
2	Ho		3,979,941.93	0.45	102.8	Analog	0.30	3
2	Bi		2,499,116.64	0.28	100.3	Analog	0.30	3
3	Sc		127,815.61	0.21	106.1	Pulse	0.30	3
3	Ge		85,219.30	0.86	104.2	Pulse	0.30	3
3	Ge		129,748.83	0.48	103.6	Pulse	0.30	3
3	Rh		1,479,433.45	0.51	98.1	Analog	0.30	3
3	Tb		2,863,685.44	0.40	99.2	Analog	0.30	3

Quantitation Report

File Name	050SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:08
Sample Name	JD49193-5
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.015	ug/l	11.09	5,827.75	1.373E-03	Pulse	0.25	3
B			1	64.944	ug/l	4.41	49,766.43	1.169E-02	Pulse	0.15	3
Ca			1	42614.046	ug/l	0.66	5,058,259.82	1.380E+00	Analog	0.10	3
Sr			1	165.373	ug/l	1.20	889,893.48	1.793E-01	Pulse	0.10	3
Mo			1	6.406	ug/l	10.33	6,741.69	1.363E-03	Pulse	0.10	3
Ag			1	3.504	ug/l	7.76	8,849.44	1.698E-03	Pulse	0.10	3
Sn			1	37.172	ug/l	2.17	64,171.85	1.229E-02	Pulse	0.10	3
Sb			1	5.246	ug/l	2.41	11,304.43	1.544E-03	Pulse	0.10	3
Ba			1	2209.920	ug/l	0.95	1,828,243.15	2.496E-01	Analog	0.10	3
Tl			1	1.822	ug/l	31.55	9,490.31	2.292E-03	Pulse	0.10	3
Pb			1	1084.217	ug/l	0.99	1,907,542.47	4.568E-01	Analog	0.10	3
Pb			1	1047.519	ug/l	1.01	1,609,870.29	3.854E-01	Analog	0.10	3
Pb			1	1048.666	ug/l	0.94	7,398,111.97	1.771E+00	Analog	0.10	3
Na			2	1012.819	ug/l	2.77	136,829.15	8.984E-01	Pulse	0.30	3
Mg			2	38550.618	ug/l	0.65	2,508,602.96	1.647E+01	Analog	0.30	3
Al			2	82715.348	ug/l	0.83	1,775,231.60	1.165E+01	Analog	0.30	3
K			2	16568.091	ug/l	0.35	746,586.97	4.901E+00	Pulse	0.30	3
Ca			2	42295.603	ug/l	0.72	102,290.45	6.715E-01	Pulse	0.30	3
Ti			2	2259.142	ug/l	0.33	39,033.74	2.563E-01	Pulse	0.30	3
V			2	194.706	ug/l	0.62	113,525.24	7.453E-01	Pulse	0.30	3
Cr			2	138.040	ug/l	0.84	101,419.55	6.658E-01	Pulse	0.30	3
Mn			2	2564.393	ug/l	0.54	1,002,459.65	6.581E+00	Pulse	0.30	3
Fe			2	108925.092	ug/l	1.00	67,371,857.32	4.423E+02	Analog	0.30	3
Co			2	42.846	ug/l	0.38	51,705.96	3.395E-01	Pulse	0.30	3
Ni			2	91.744	ug/l	0.77	30,738.77	2.018E-01	Pulse	0.30	3
Cu			2	437.930	ug/l	0.37	387,205.84	2.542E+00	Pulse	0.30	3
Zn			2	2036.914	ug/l	0.30	291,835.77	1.916E+00	Pulse	0.30	3
As			2	53.677	ug/l	2.23	4,105.19	2.695E-02	Pulse	1.00	3
Cd			2	4.501	ug/l	8.48	960.77	9.591E-04	Pulse	0.30	3
Sn			2	37.099	ug/l	0.93	16,817.99	1.679E-02	Pulse	0.30	3
Se			3	4.383	ug/l	7.50	55.47	4.270E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,253,769.79	3.31	102.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,664,107.24	4.22	107.4	Analog	0.10	3
1	Ge		709,037.52	5.28	104.5	Pulse	0.10	3
1	Ge		983,270.33	5.42	104.2	Pulse	0.10	3
1	Rh		4,962,409.41	4.64	99.9	Analog	0.10	3
1	In		5,226,010.69	5.15	100.3	Analog	0.10	3
1	Tb		7,323,915.94	4.20	101.9	Analog	0.10	3
1	Ho		7,271,488.64	3.99	101.1	Analog	0.10	3
1	Bi		4,176,087.75	4.21	100.2	Analog	0.10	3
2	Sc		152,323.96	0.88	110.6	Pulse	0.30	3
2	Ge		100,726.75	1.23	108.1	Pulse	0.30	3
2	Ge		149,233.38	1.23	106.9	Pulse	0.30	3
2	Rh		2,700,355.52	0.56	100.6	Analog	0.30	3
2	In		1,001,802.89	0.96	104.0	Pulse	0.30	3
2	Tb		3,933,971.23	0.16	102.2	Analog	0.30	3
2	Ho		4,027,005.95	0.88	104.0	Analog	0.30	3
2	Bi		2,518,908.72	0.62	101.1	Analog	0.30	3
3	Sc		128,172.70	1.59	106.4	Pulse	0.30	3
3	Ge		85,582.16	1.05	104.6	Pulse	0.30	3
3	Ge		129,944.19	1.12	103.8	Pulse	0.30	3
3	Rh		1,485,107.75	0.78	98.5	Analog	0.30	3
3	Tb		2,839,944.47	0.58	98.4	Analog	0.30	3

Quantitation Report

File Name	051SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:11
Sample Name	sampleconf
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.077	ug/l	7.47	4,420.64	1.123E-03	Pulse	0.25	3
B			1	44.028	ug/l	5.64	34,956.60	8.878E-03	Pulse	0.15	3
Ca			1	42016.437	ug/l	0.83	4,525,277.54	1.361E+00	Analog	0.10	3
Sr			1	163.185	ug/l	0.93	797,424.75	1.769E-01	Pulse	0.10	3
Mo			1	5.656	ug/l	9.31	5,431.13	1.204E-03	Pulse	0.10	3
Ag			1	3.392	ug/l	5.16	7,738.82	1.643E-03	Pulse	0.10	3
Sn			1	35.021	ug/l	1.57	54,608.99	1.159E-02	Pulse	0.10	3
Sb			1	5.265	ug/l	6.64	10,310.41	1.550E-03	Pulse	0.10	3
Ba			1	2191.472	ug/l	0.28	1,647,339.04	2.475E-01	Analog	0.10	3
Tl			1	1.119	ug/l	5.43	5,424.54	1.430E-03	Pulse	0.10	3
Pb			1	1085.333	ug/l	0.73	1,734,403.83	4.573E-01	Analog	0.10	3
Pb			1	1050.477	ug/l	0.56	1,466,106.18	3.865E-01	Analog	0.10	3
Pb			1	1049.850	ug/l	0.32	6,726,119.54	1.773E+00	Analog	0.10	3
Na			2	1047.175	ug/l	5.25	120,684.94	9.282E-01	Pulse	0.30	3
Mg			2	39023.133	ug/l	1.04	2,171,124.15	1.667E+01	Analog	0.30	3
Al			2	82304.014	ug/l	0.59	1,509,851.19	1.160E+01	Analog	0.30	3
K			2	16865.813	ug/l	0.41	649,669.16	4.988E+00	Pulse	0.30	3
Ca			2	42852.669	ug/l	0.46	88,589.17	6.803E-01	Pulse	0.30	3
Ti			2	2269.268	ug/l	2.13	33,530.51	2.574E-01	Pulse	0.30	3
V			2	198.092	ug/l	1.10	98,752.63	7.582E-01	Pulse	0.30	3
Cr			2	138.661	ug/l	0.85	87,081.63	6.688E-01	Pulse	0.30	3
Mn			2	2579.533	ug/l	0.16	862,076.98	6.620E+00	Pulse	0.30	3
Fe			2	109705.561	ug/l	0.43	58,017,743.25	4.455E+02	Analog	0.30	3
Co			2	42.782	ug/l	1.17	44,140.60	3.389E-01	Pulse	0.30	3
Ni			2	92.600	ug/l	1.13	26,509.26	2.036E-01	Pulse	0.30	3
Cu			2	444.224	ug/l	0.63	335,812.07	2.578E+00	Pulse	0.30	3
Zn			2	2063.360	ug/l	0.50	252,603.71	1.940E+00	Pulse	0.30	3
As			2	53.697	ug/l	1.07	3,511.72	2.696E-02	Pulse	1.00	3
Cd			2	4.780	ug/l	7.44	876.34	1.018E-03	Pulse	0.30	3
Sn			2	37.317	ug/l	1.28	14,569.08	1.689E-02	Pulse	0.30	3
Se			3	3.713	ug/l	4.37	29.27	3.699E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,937,594.24	0.17	94.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,324,931.83	1.04	97.5	Analog	0.10	3
1	Ge		643,302.41	0.83	94.8	Pulse	0.10	3
1	Ge		887,694.65	1.14	94.1	Pulse	0.10	3
1	Rh		4,508,209.41	0.87	90.7	Analog	0.10	3
1	In		4,710,678.29	0.55	90.4	Analog	0.10	3
1	Tb		6,655,538.65	1.04	92.6	Analog	0.10	3
1	Ho		6,652,768.44	0.88	92.5	Analog	0.10	3
1	Bi		3,793,110.67	1.01	91.0	Analog	0.10	3
2	Sc		130,219.04	4.78	94.5	Pulse	0.30	3
2	Ge		86,926.32	4.94	93.3	Pulse	0.30	3
2	Ge		129,659.29	4.60	92.9	Pulse	0.30	3
2	Rh		2,343,405.95	5.29	87.3	Analog	0.30	3
2	In		862,991.20	4.60	89.6	Pulse	0.30	3
2	Tb		3,437,066.60	4.33	89.3	Analog	0.30	3
2	Ho		3,510,270.07	4.71	90.6	Analog	0.30	3
2	Bi		2,204,213.18	4.89	88.4	Analog	0.30	3
3	Sc		77,166.53	14.43	64.1	Pulse	0.30	3
3	Ge		51,895.58	14.52	63.4	Pulse	0.30	3
3	Ge		78,900.66	13.57	63.0	Pulse	0.30	3
3	Rh		843,023.87	14.36	55.9	Pulse	0.30	3
3	Tb		1,772,109.58	13.40	61.4	Analog	0.30	3

Quantitation Report

File Name	052SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:15
Sample Name	sampleconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	175.027	ug/l	9.06	402,550.76	2.338E-01	Pulse	0.25	3
B			1	159.699	ug/l	15.69	191,248.58	1.104E-01	Pulse	0.15	3
Ca			1	37741.712	ug/l	17.22	11,865,288.37	6.100E+00	Analog	0.10	3
Sr			1	370.219	ug/l	7.88	3,735,458.28	2.006E+00	Analog	0.10	3
Mo			1	199.791	ug/l	10.00	393,393.61	2.107E-01	Pulse	0.10	3
Ag			1	103.483	ug/l	9.70	501,284.03	2.529E-01	Pulse	0.10	3
Sn			1	236.302	ug/l	7.97	753,172.55	3.810E-01	Pulse	0.10	3
Sb			1	191.201	ug/l	10.22	786,708.35	2.670E-01	Pulse	0.10	3
Ba			1	2350.406	ug/l	6.74	3,898,304.84	1.327E+00	Analog	0.10	3
Tl			1	181.717	ug/l	13.42	1,879,405.52	1.114E+00	Analog	0.10	3
Pb			1	1236.704	ug/l	9.95	4,372,790.87	2.602E+00	Analog	0.10	3
Pb			1	1198.086	ug/l	9.36	3,697,183.28	2.201E+00	Analog	0.10	3
Pb			1	1202.788	ug/l	9.71	17,042,597.77	1.014E+01	Analog	0.10	3
Na			2	9280.113	ug/l	2.88	2,811,545.10	4.024E+01	Analog	0.30	3
Mg			2	42692.643	ug/l	1.96	6,395,024.47	9.118E+01	Analog	0.30	3
Al			2	81228.058	ug/l	2.27	4,005,618.31	5.721E+01	Analog	0.30	3
K			2	23777.754	ug/l	2.38	2,437,221.12	3.482E+01	Analog	0.30	3
Ca			2	46905.459	ug/l	0.25	262,371.55	3.722E+00	Pulse	0.30	3
Ti			2	2185.399	ug/l	1.01	87,120.80	1.239E+00	Pulse	0.30	3
V			2	344.830	ug/l	0.29	464,650.48	6.591E+00	Pulse	0.30	3
Cr			2	285.441	ug/l	0.18	484,508.16	6.876E+00	Pulse	0.30	3
Mn			2	2496.525	ug/l	1.94	2,243,864.46	3.203E+01	Analog	0.30	3
Fe			2	102524.491	ug/l	0.55	146,426,334.18	2.081E+03	Analog	0.30	3
Co			2	198.131	ug/l	0.34	552,682.32	7.844E+00	Pulse	0.30	3
Ni			2	237.741	ug/l	0.33	176,069.85	2.502E+00	Pulse	0.30	3
Cu			2	546.491	ug/l	0.51	1,113,334.14	1.581E+01	Mix	0.30	3
Zn			2	1813.574	ug/l	1.63	582,564.30	8.309E+00	Pulse	0.30	3
As			2	198.024	ug/l	0.59	34,971.68	4.958E-01	Pulse	1.00	3
Cd			2	192.364	ug/l	0.64	78,252.31	2.025E-01	Pulse	0.30	3
Sn			2	246.886	ug/l	0.70	219,056.48	5.689E-01	Pulse	0.30	3
Se			3	459.300	ug/l	3.50	21,442.69	1.958E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		1,704,951.58	17.65	41.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		1,933,387.26	13.69	56.7	Analog	0.10	3
1	Ge		274,465.90	21.62	40.5	Pulse	0.10	3
1	Ge		375,932.67	21.60	39.8	Pulse	0.10	3
1	Rh		1,845,957.42	18.72	37.2	Analog	0.10	3
1	In		1,957,960.66	19.39	37.6	Analog	0.10	3
1	Tb		2,917,012.61	18.83	40.6	Analog	0.10	3
1	Ho		2,886,450.11	18.82	40.1	Analog	0.10	3
1	Bi		1,663,565.24	16.72	39.9	Analog	0.10	3
2	Sc		70,436.73	42.23	51.1	Pulse	0.30	3
2	Ge		43,157.58	41.56	46.3	Pulse	0.30	3
2	Ge		62,779.95	40.80	45.0	Pulse	0.30	3
2	Rh		996,709.41	45.58	37.1	Mix	0.30	3
2	In		385,755.53	42.06	40.0	Pulse	0.30	3
2	Tb		1,588,274.97	45.81	41.3	Mix	0.30	3
2	Ho		1,619,122.92	44.73	41.8	Mix	0.30	3
2	Bi		1,015,014.61	39.88	40.7	Mix	0.30	3
3	Sc		119,731.22	13.16	99.4	Pulse	0.30	3
3	Ge		75,063.03	11.96	91.8	Pulse	0.30	3
3	Ge		109,264.11	9.50	87.3	Pulse	0.30	3
3	Rh		1,096,230.58	12.63	72.7	Pulse	0.30	3
3	Tb		2,387,633.10	12.66	82.7	Analog	0.30	3

Quantitation Report

File Name	053SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:18
Sample Name	RINSECONF
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	12.645	ug/l	131.88	32,303.30	1.692E-02	Pulse	0.25	3
B			1	25.669	ug/l	63.41	48,432.35	2.022E-02	Pulse	0.15	3
Ca			1	4627.326	ug/l	136.82	958,699.73	7.512E-01	Mix	0.10	3
Sr			1	26.849	ug/l	135.34	303,940.94	1.455E-01	Pulse	0.10	3
Mo			1	15.618	ug/l	129.42	35,153.84	1.648E-02	Pulse	0.10	3
Ag			1	8.513	ug/l	136.84	46,359.68	2.079E-02	Pulse	0.10	3
Sn			1	18.008	ug/l	128.80	67,506.58	2.932E-02	Pulse	0.10	3
Sb			1	14.679	ug/l	130.58	67,282.05	2.057E-02	Pulse	0.10	3
Ba			1	172.785	ug/l	135.56	313,291.71	9.758E-02	Pulse	0.10	3
Tl			1	16.230	ug/l	135.80	181,657.36	9.956E-02	Pulse	0.10	3
Pb			1	96.658	ug/l	137.53	370,596.56	2.040E-01	Pulse	0.10	3
Pb			1	93.080	ug/l	137.06	312,080.78	1.716E-01	Pulse	0.10	3
Pb			1	95.398	ug/l	137.61	1,465,770.88	8.072E-01	Mix	0.10	3
Na			2	0.418	ug/l	37.08	2,548.01	2.241E-02	Pulse	0.30	3
Mg			2	0.726	ug/l	27.00	584.47	5.145E-03	Pulse	0.30	3
Al			2	3.799	ug/l	22.20	562.24	4.935E-03	Pulse	0.30	3
K			2	-0.829	ug/l	-81.66	6,252.35	5.496E-02	Pulse	0.30	3
Ca			2	0.182	ug/l	245.35	30.00	2.644E-04	Pulse	0.30	3
Ti			2	1.875	ug/l	8.19	124.45	1.096E-03	Pulse	0.30	3
V			2	-0.019	ug/l	-31.67	80.00	7.046E-04	Pulse	0.30	3
Cr			2	0.025	ug/l	13.73	167.78	1.476E-03	Pulse	0.30	3
Mn			2	0.055	ug/l	18.55	202.23	1.779E-03	Pulse	0.30	3
Fe			2	40.834	ug/l	10.37	121,519.54	1.067E+00	Pulse	0.30	3
Co			2	0.002	ug/l	276.56	35.23	3.123E-04	Pulse	0.30	3
Ni			2	-0.101	ug/l	-12.20	954.48	8.394E-03	Pulse	0.30	3
Cu			2	-0.028	ug/l	-116.90	975.60	8.589E-03	Pulse	0.30	3
Zn			2	-0.314	ug/l	-192.83	7,101.60	6.249E-02	Pulse	0.30	3
As			2	0.053	ug/l	46.91	23.67	2.075E-04	Pulse	1.00	3
Cd			2	0.024	ug/l	45.80	29.97	3.716E-05	Pulse	0.30	3
Sn			2	0.572	ug/l	8.62	807.81	9.981E-04	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.187	ug/l	18.23	14.47	1.331E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,735,695.74	34.46	65.8	Analog	0.10	3
1	Sc		1,968,005.31	39.08	57.7	Analog	0.10	3
1	Ge		432,535.54	35.23	63.8	Pulse	0.10	3
1	Ge		603,858.74	36.20	64.0	Pulse	0.10	3
1	Rh		3,108,857.82	36.43	62.6	Analog	0.10	3
1	In		3,292,527.37	35.40	63.2	Analog	0.10	3
1	Tb		4,687,904.83	34.88	65.2	Analog	0.10	3
1	Ho		4,653,791.18	35.02	64.7	Analog	0.10	3
1	Bi		2,661,753.14	34.79	63.9	Analog	0.10	3
2	Sc		113,723.80	2.46	82.5	Pulse	0.30	3
2	Ge		78,601.33	2.24	84.4	Pulse	0.30	3
2	Ge		118,704.52	2.69	85.0	Pulse	0.30	3
2	Rh		2,238,343.87	2.83	83.4	Analog	0.30	3
2	In		811,071.87	2.82	84.2	Pulse	0.30	3
2	Tb		3,228,689.73	2.90	83.9	Analog	0.30	3
2	Ho		3,287,886.19	1.62	84.9	Analog	0.30	3
2	Bi		2,089,883.39	2.28	83.9	Analog	0.30	3
3	Sc		101,179.88	2.47	84.0	Pulse	0.30	3
3	Ge		71,429.57	2.92	87.3	Pulse	0.30	3
3	Ge		108,544.57	2.88	86.7	Pulse	0.30	3
3	Rh		1,197,682.94	2.39	79.4	Pulse	0.30	3
3	Tb		2,451,493.79	2.08	84.9	Analog	0.30	3

Quantitation Report

File Name	054SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:21
Sample Name	mp34484-sd1
Sample Type	Sample
Comment	
Prep Dilution	25.000
Auto Dilution	N/A
Total Dilution	25.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.089	ug/l	5.98	1,134.72	2.521E-04	Pulse	0.25	3
B			1	51.655	ug/l	6.97	19,580.54	4.346E-03	Pulse	0.15	3
Ca			1	41242.808	ug/l	7.24	947,815.92	2.702E-01	Pulse	0.10	3
Sr			1	144.494	ug/l	1.29	165,827.50	3.139E-02	Pulse	0.10	3
Mo			1	5.528	ug/l	13.28	1,286.77	2.447E-04	Pulse	0.10	3
Ag			1	2.791	ug/l	9.55	1,430.12	2.580E-04	Pulse	0.10	3
Sn			1	27.640	ug/l	9.21	11,598.03	2.088E-03	Pulse	0.10	3
Sb			1	4.428	ug/l	5.67	2,533.62	3.268E-04	Pulse	0.10	3
Ba			1	1901.733	ug/l	0.85	333,027.63	4.296E-02	Pulse	0.10	3
Tl			1	1.126	ug/l	9.94	1,470.13	3.343E-04	Pulse	0.10	3
Pb			1	940.740	ug/l	0.45	351,836.22	7.989E-02	Pulse	0.10	3
Pb			1	918.348	ug/l	0.55	299,762.85	6.807E-02	Pulse	0.10	3
Pb			1	928.006	ug/l	1.02	1,390,785.86	3.158E-01	Pulse	0.10	3
Na			2	909.578	ug/l	0.98	26,857.13	1.783E-01	Pulse	0.30	3
Mg			2	35785.933	ug/l	0.90	461,114.50	3.061E+00	Pulse	0.30	3
Al			2	75656.521	ug/l	0.74	321,470.00	2.134E+00	Pulse	0.30	3
K			2	15252.227	ug/l	2.04	142,860.17	9.482E-01	Pulse	0.30	3
Ca			2	40615.841	ug/l	3.59	19,460.38	1.292E-01	Pulse	0.30	3
Ti			2	2216.950	ug/l	2.79	7,581.95	5.032E-02	Pulse	0.30	3
V			2	183.323	ug/l	2.61	21,274.91	1.412E-01	Pulse	0.30	3
Cr			2	134.932	ug/l	1.27	19,716.29	1.309E-01	Pulse	0.30	3
Mn			2	2450.916	ug/l	1.46	189,658.78	1.259E+00	Pulse	0.30	3
Fe			2	105507.404	ug/l	0.18	12,939,027.54	8.588E+01	Analog	0.30	3
Co			2	40.529	ug/l	2.43	9,702.48	6.440E-02	Pulse	0.30	3
Ni			2	86.407	ug/l	1.78	6,882.62	4.568E-02	Pulse	0.30	3
Cu			2	422.200	ug/l	0.96	74,987.39	4.977E-01	Pulse	0.30	3
Zn			2	2048.537	ug/l	1.47	65,754.40	4.364E-01	Pulse	0.30	3
As			2	48.471	ug/l	6.25	742.69	4.929E-03	Pulse	1.00	3
Cd			2	4.570	ug/l	7.35	213.26	2.039E-04	Pulse	0.30	3
Sn			2	36.057	ug/l	2.31	3,141.47	3.004E-03	Pulse	0.30	3
Se			3	2.799	ug/l	10.32	13.60	1.011E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,503,747.15	3.04	108.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,526,815.68	11.24	103.4	Analog	0.10	3
1	Ge		745,063.87	4.52	109.8	Pulse	0.10	3
1	Ge		1,039,789.41	5.22	110.2	Pulse	0.10	3
1	Rh		5,280,808.46	4.90	106.3	Analog	0.10	3
1	In		5,541,711.96	4.64	106.3	Analog	0.10	3
1	Tb		7,750,121.34	4.02	107.8	Analog	0.10	3
1	Ho		7,743,665.09	4.28	107.6	Analog	0.10	3
1	Bi		4,404,881.71	5.08	105.7	Analog	0.10	3
2	Sc		150,664.71	0.43	109.4	Pulse	0.30	3
2	Ge		103,158.34	0.14	110.7	Pulse	0.30	3
2	Ge		154,943.92	1.12	111.0	Pulse	0.30	3
2	Rh		2,845,231.27	0.46	106.0	Analog	0.30	3
2	In		1,045,691.53	0.25	108.5	Pulse	0.30	3
2	Tb		4,079,945.67	0.21	106.0	Analog	0.30	3
2	Ho		4,152,719.70	0.62	107.2	Analog	0.30	3
2	Bi		2,675,683.16	0.62	107.4	Analog	0.30	3
3	Sc		127,369.77	0.41	105.7	Pulse	0.30	3
3	Ge		88,752.35	0.57	108.5	Pulse	0.30	3
3	Ge		134,481.33	0.59	107.4	Pulse	0.30	3
3	Rh		1,587,760.35	0.80	105.3	Analog	0.30	3
3	Tb		2,991,481.55	0.89	103.6	Analog	0.30	3

Quantitation Report

File Name	055SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:25
Sample Name	mp34484-PS1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	181.873	ug/l	3.07	198,206.54	4.862E-02	Pulse	0.25	3
B			1	201.189	ug/l	11.58	122,611.62	3.002E-02	Pulse	0.15	3
Ca			1	46410.344	ug/l	4.35	5,528,477.52	1.503E+00	Analog	0.10	3
Sr			1	345.779	ug/l	1.09	1,773,789.30	3.747E-01	Analog	0.10	3
Mo			1	186.755	ug/l	1.30	186,542.12	3.940E-02	Pulse	0.10	3
Ag			1	100.275	ug/l	2.16	246,443.73	4.901E-02	Pulse	0.10	3
Sn			1	213.198	ug/l	1.62	346,999.67	6.901E-02	Pulse	0.10	3
Sb			1	189.652	ug/l	1.17	376,386.04	5.304E-02	Pulse	0.10	3
Ba			1	2275.004	ug/l	1.25	1,823,689.82	2.570E-01	Analog	0.10	3
Tl			1	178.095	ug/l	3.28	880,609.44	2.184E-01	Pulse	0.10	3
Pb			1	1204.321	ug/l	1.62	2,044,448.82	5.073E-01	Analog	0.10	3
Pb			1	1165.083	ug/l	1.95	1,727,361.17	4.286E-01	Analog	0.10	3
Pb			1	1163.122	ug/l	1.71	7,916,247.43	1.964E+00	Analog	0.10	3
Na			2	9668.904	ug/l	1.66	1,229,570.51	8.401E+00	Analog	0.30	3
Mg			2	44760.643	ug/l	1.50	2,798,784.26	1.912E+01	Analog	0.30	3
Al			2	86937.514	ug/l	1.08	1,792,824.86	1.225E+01	Analog	0.30	3
K			2	24168.666	ug/l	0.96	1,042,810.93	7.124E+00	Pulse	0.30	3
Ca			2	49176.294	ug/l	0.83	114,277.19	7.807E-01	Pulse	0.30	3
Ti			2	2444.303	ug/l	10.30	40,604.06	2.773E-01	Pulse	0.30	3
V			2	359.869	ug/l	0.53	201,509.54	1.377E+00	Pulse	0.30	3
Cr			2	303.901	ug/l	0.52	214,412.98	1.465E+00	Pulse	0.30	3
Mn			2	2594.148	ug/l	0.42	974,506.59	6.658E+00	Pulse	0.30	3
Fe			2	111012.017	ug/l	0.09	65,984,826.27	4.508E+02	Analog	0.30	3
Co			2	212.607	ug/l	0.96	246,442.22	1.684E+00	Pulse	0.30	3
Ni			2	257.158	ug/l	1.32	80,304.04	5.486E-01	Pulse	0.30	3
Cu			2	585.899	ug/l	0.86	497,356.33	3.398E+00	Pulse	0.30	3
Zn			2	2096.730	ug/l	0.58	288,405.33	1.970E+00	Pulse	0.30	3
As			2	230.432	ug/l	1.06	16,900.41	1.155E-01	Pulse	1.00	3
Cd			2	179.308	ug/l	0.67	36,493.14	3.776E-02	Pulse	0.30	3
Sn			2	214.005	ug/l	0.24	95,062.51	9.837E-02	Pulse	0.30	3
Se			3	488.225	ug/l	0.53	5,369.02	4.167E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,074,349.80	3.76	98.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,676,793.07	1.35	107.8	Analog	0.10	3
1	Ge		679,181.90	5.37	100.1	Pulse	0.10	3
1	Ge		942,473.55	5.86	99.9	Pulse	0.10	3
1	Rh		4,732,043.99	5.74	95.2	Analog	0.10	3
1	In		5,025,747.34	4.75	96.4	Analog	0.10	3
1	Tb		7,094,509.27	4.88	98.7	Analog	0.10	3
1	Ho		7,031,813.02	4.53	97.7	Analog	0.10	3
1	Bi		4,028,537.23	3.30	96.7	Analog	0.10	3
2	Sc		146,376.97	0.76	106.2	Pulse	0.30	3
2	Ge		96,064.19	1.28	103.1	Pulse	0.30	3
2	Ge		145,319.65	1.29	104.1	Pulse	0.30	3
2	Rh		2,603,384.20	0.82	97.0	Analog	0.30	3
2	In		966,416.34	1.13	100.3	Pulse	0.30	3
2	Tb		3,802,627.07	0.45	98.8	Analog	0.30	3
2	Ho		3,886,955.82	0.98	100.4	Analog	0.30	3
2	Bi		2,444,222.06	0.76	98.1	Analog	0.30	3
3	Sc		126,952.62	0.76	105.4	Pulse	0.30	3
3	Ge		85,723.27	0.63	104.8	Pulse	0.30	3
3	Ge		128,838.93	0.41	102.9	Pulse	0.30	3
3	Rh		1,484,714.18	0.70	98.5	Analog	0.30	3
3	Tb		2,843,015.58	0.58	98.5	Analog	0.30	3

Quantitation Report

File Name	056SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:28
Sample Name	RINSECONF
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.101	ug/l	147.77	656.04	1.684E-04	Pulse	0.25	3
B			1	3.782	ug/l	22.13	22,068.05	5.500E-03	Pulse	0.15	3
Ca			1	15.091	ug/l	257.98	20,145.67	6.144E-03	Pulse	0.10	3
Sr			1	0.181	ug/l	145.88	4,815.53	1.061E-03	Pulse	0.10	3
Mo			1	0.308	ug/l	78.85	1,563.50	3.365E-04	Pulse	0.10	3
Ag			1	0.124	ug/l	113.14	1,396.86	2.891E-04	Pulse	0.10	3
Sn			1	0.576	ug/l	45.96	6,158.20	1.235E-03	Pulse	0.10	3
Sb			1	0.179	ug/l	106.42	2,236.98	3.299E-04	Pulse	0.10	3
Ba			1	1.183	ug/l	142.11	4,452.14	6.709E-04	Pulse	0.10	3
Tl			1	0.189	ug/l	88.86	4,698.11	1.219E-03	Pulse	0.10	3
Pb			1	0.669	ug/l	128.24	8,290.90	2.151E-03	Pulse	0.10	3
Pb			1	0.668	ug/l	129.12	6,996.60	1.817E-03	Pulse	0.10	3
Pb			1	0.666	ug/l	128.73	32,612.26	8.464E-03	Pulse	0.10	3
Na			2	-0.145	ug/l	-19.56	2,792.49	1.997E-02	Pulse	0.30	3
Mg			2	0.385	ug/l	4.82	617.80	4.417E-03	Pulse	0.30	3
Al			2	3.762	ug/l	8.03	686.69	4.909E-03	Pulse	0.30	3
K			2	1.044	ug/l	142.26	8,071.03	5.770E-02	Pulse	0.30	3
Ca			2	1.051	ug/l	72.30	46.67	3.333E-04	Pulse	0.30	3
Ti			2	0.923	ug/l	12.88	77.78	5.556E-04	Pulse	0.30	3
V			2	-0.010	ug/l	-75.23	124.45	8.896E-04	Pulse	0.30	3
Cr			2	0.020	ug/l	47.46	187.78	1.341E-03	Pulse	0.30	3
Mn			2	0.005	ug/l	346.32	160.00	1.142E-03	Pulse	0.30	3
Fe			2	29.641	ug/l	5.81	117,547.61	8.402E-01	Pulse	0.30	3
Co			2	0.000	ug/l	364.96	33.02	2.360E-04	Pulse	0.30	3
Ni			2	-0.105	ug/l	-31.81	1,167.83	8.351E-03	Pulse	0.30	3
Cu			2	-0.074	ug/l	-29.20	1,011.15	7.233E-03	Pulse	0.30	3
Zn			2	-0.939	ug/l	-21.52	8,343.33	5.965E-02	Pulse	0.30	3
As			2	0.039	ug/l	93.19	24.00	1.719E-04	Pulse	1.00	3
Cd			2	0.003	ug/l	255.54	14.41	1.494E-05	Pulse	0.30	3
Sn			2	0.578	ug/l	1.77	977.82	1.011E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.065	ug/l	25.19	10.33	8.092E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,023,578.80	4.22	96.7	Analog	0.10	3
1	Sc		3,371,947.87	4.39	98.8	Analog	0.10	3
1	Ge		665,526.59	5.91	98.1	Pulse	0.10	3
1	Ge		930,907.54	6.06	98.6	Pulse	0.10	3
1	Rh		4,796,963.36	6.20	96.5	Analog	0.10	3
1	In		5,049,755.44	5.56	96.9	Analog	0.10	3
1	Tb		6,973,163.65	5.15	97.0	Analog	0.10	3
1	Ho		6,915,534.27	5.11	96.1	Analog	0.10	3
1	Bi		3,958,004.63	4.86	95.0	Analog	0.10	3
2	Sc		139,872.19	1.03	101.5	Pulse	0.30	3
2	Ge		94,830.57	0.95	101.8	Pulse	0.30	3
2	Ge		142,778.79	0.74	102.3	Pulse	0.30	3
2	Rh		2,670,197.81	0.58	99.4	Analog	0.30	3
2	In		967,364.33	1.25	100.4	Pulse	0.30	3
2	Tb		3,798,116.38	0.71	98.7	Analog	0.30	3
2	Ho		3,847,433.46	0.51	99.4	Analog	0.30	3
2	Bi		2,461,183.10	0.70	98.8	Analog	0.30	3
3	Sc		121,427.60	0.51	100.8	Pulse	0.30	3
3	Ge		83,647.90	0.53	102.2	Pulse	0.30	3
3	Ge		127,746.53	0.74	102.0	Pulse	0.30	3
3	Rh		1,522,237.79	0.80	100.9	Analog	0.30	3
3	Tb		2,830,558.43	0.89	98.1	Analog	0.30	3

Quantitation Report

File Name	057_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:32
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.022	ug/l	2.98	265,574.49	6.684E-02	Pulse	0.25	3
B			1	90.384	ug/l	10.04	253,665.40	6.374E-02	Pulse	0.15	3
Ca			1	5111.248	ug/l	0.54	2,807,144.44	8.293E-01	Analog	0.10	3
Sr			1	51.856	ug/l	1.62	1,318,639.98	2.810E-01	Analog	0.10	3
Mo			1	51.481	ug/l	1.63	254,879.64	5.430E-02	Pulse	0.10	3
Ag			1	51.976	ug/l	2.58	627,177.42	1.270E-01	Pulse	0.10	3
Sn			1	49.809	ug/l	2.75	397,762.57	8.056E-02	Pulse	0.10	3
Sb			1	52.268	ug/l	2.44	506,660.88	7.305E-02	Pulse	0.10	3
Ba			1	50.287	ug/l	1.43	196,916.09	2.840E-02	Pulse	0.10	3
Tl			1	50.991	ug/l	1.88	1,223,420.97	3.127E-01	Mix	0.10	3
Pb			1	50.936	ug/l	2.05	422,086.95	1.079E-01	Pulse	0.10	3
Pb			1	50.403	ug/l	1.75	364,551.98	9.317E-02	Pulse	0.10	3
Pb			1	50.651	ug/l	1.64	1,682,001.80	4.299E-01	Pulse	0.10	3
Na			2	5148.177	ug/l	1.50	3,161,250.64	2.233E+01	Analog	0.30	3
Mg			2	5159.657	ug/l	1.72	1,560,333.51	1.102E+01	Analog	0.30	3
Al			2	5062.240	ug/l	1.30	505,067.93	3.568E+00	Pulse	0.30	3
K			2	5098.521	ug/l	0.41	1,063,396.93	7.511E+00	Pulse	0.30	3
Ca			2	5274.986	ug/l	0.93	59,299.28	4.188E-01	Pulse	0.30	3
Ti			2	49.849	ug/l	2.67	4,007.19	2.830E-02	Pulse	0.30	3
V			2	50.894	ug/l	1.15	137,873.14	9.737E-01	Pulse	0.30	3
Cr			2	49.958	ug/l	0.21	170,478.97	1.204E+00	Pulse	0.30	3
Mn			2	50.414	ug/l	0.78	91,720.94	6.479E-01	Pulse	0.30	3
Fe			2	5167.798	ug/l	1.65	14,879,171.63	1.051E+02	Analog	0.30	3
Co			2	50.051	ug/l	0.47	280,547.23	1.982E+00	Pulse	0.30	3
Ni			2	50.137	ug/l	0.51	75,742.83	5.350E-01	Pulse	0.30	3
Cu			2	49.485	ug/l	0.42	203,906.40	1.440E+00	Pulse	0.30	3
Zn			2	47.691	ug/l	0.86	39,744.84	2.807E-01	Pulse	0.30	3
As			2	51.024	ug/l	1.05	18,095.66	1.278E-01	Pulse	1.00	3
Cd			2	49.776	ug/l	0.47	50,188.08	5.241E-02	Pulse	0.30	3
Sn			2	50.386	ug/l	0.58	110,950.70	1.159E-01	Pulse	0.30	3
Se			3	201.859	ug/l	0.25	10,959.46	8.609E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,970,166.93	3.80	95.5	Analog	0.10	3
1	Sc		3,385,328.07	4.74	99.2	Analog	0.10	3
1	Ge		657,842.26	5.47	97.0	Pulse	0.10	3

Quantitation Report

1	Ge		925,512.85	4.97	98.1	Pulse	0.10	3
1	Rh		4,691,210.04	4.81	94.4	Analog	0.10	3
1	In		4,934,059.08	3.71	94.7	Analog	0.10	3
1	Tb		6,930,505.94	4.49	96.4	Analog	0.10	3
1	Ho		6,885,950.31	3.88	95.7	Analog	0.10	3
1	Bi		3,910,813.48	4.35	93.8	Analog	0.10	3
2	Sc		141,577.03	1.21	102.8	Pulse	0.30	3
2	Ge		93,912.07	1.23	100.8	Pulse	0.30	3
2	Ge		142,419.57	1.29	102.0	Pulse	0.30	3
2	Rh		2,602,089.06	0.67	96.9	Analog	0.30	3
2	In		957,659.86	1.03	99.4	Pulse	0.30	3
2	Tb		3,808,166.24	0.57	99.0	Analog	0.30	3
2	Ho		3,891,194.29	1.52	100.5	Analog	0.30	3
2	Bi		2,436,207.75	0.72	97.8	Analog	0.30	3
3	Sc		122,441.68	0.66	101.7	Pulse	0.30	3
3	Ge		83,939.50	1.18	102.6	Pulse	0.30	3
3	Ge		127,299.33	0.64	101.7	Pulse	0.30	3
3	Rh		1,452,543.10	0.72	96.3	Analog	0.30	3
3	Tb		2,828,286.69	0.19	98.0	Analog	0.30	3

Quantitation Report

File Name	058BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:35
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.136	ug/l	127.75	842.72	2.158E-04	Pulse	0.25	3
B			1	9.172	ug/l	20.94	36,390.48	9.124E-03	Pulse	0.15	3
Ca			1	0.800	ug/l	2439.84	12,254.28	3.836E-03	Pulse	0.10	3
Sr			1	0.134	ug/l	142.50	3,701.28	8.100E-04	Pulse	0.10	3
Mo			1	0.337	ug/l	81.26	1,706.88	3.672E-04	Pulse	0.10	3
Ag			1	0.247	ug/l	114.66	2,844.02	5.884E-04	Pulse	0.10	3
Sn			1	0.790	ug/l	47.28	7,829.08	1.580E-03	Pulse	0.10	3
Sb			1	0.221	ug/l	91.93	2,610.43	3.886E-04	Pulse	0.10	3
Ba			1	0.135	ug/l	113.04	523.37	7.893E-05	Pulse	0.10	3
Tl			1	0.250	ug/l	98.54	6,045.82	1.592E-03	Pulse	0.10	3
Pb			1	0.160	ug/l	104.00	4,210.79	1.082E-03	Pulse	0.10	3
Pb			1	0.160	ug/l	87.12	3,447.24	8.850E-04	Pulse	0.10	3
Pb			1	0.155	ug/l	102.67	16,154.25	4.152E-03	Pulse	0.10	3
Na			2	0.180	ug/l	23.18	2,945.85	2.137E-02	Pulse	0.30	3
Mg			2	0.153	ug/l	133.58	541.13	3.921E-03	Pulse	0.30	3
Al			2	-1.276	ug/l	-23.70	187.78	1.360E-03	Pulse	0.30	3
K			2	0.871	ug/l	149.81	7,920.86	5.745E-02	Pulse	0.30	3
Ca			2	1.009	ug/l	110.56	45.56	3.300E-04	Pulse	0.30	3
Ti			2	0.171	ug/l	53.51	17.78	1.294E-04	Pulse	0.30	3
V			2	0.000	ug/l	-3604.32	146.67	1.065E-03	Pulse	0.30	3
Cr			2	0.013	ug/l	60.51	161.12	1.171E-03	Pulse	0.30	3
Mn			2	-0.018	ug/l	-60.68	116.67	8.449E-04	Pulse	0.30	3
Fe			2	3.224	ug/l	32.45	41,954.54	3.041E-01	Pulse	0.30	3
Co			2	0.001	ug/l	245.20	34.33	2.498E-04	Pulse	0.30	3
Ni			2	-0.127	ug/l	-8.42	1,120.05	8.126E-03	Pulse	0.30	3
Cu			2	-0.083	ug/l	-16.83	962.26	6.983E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.415	ug/l	-37.99	8,550.09	6.203E-02	Pulse	0.30	3
As			2	0.060	ug/l	74.80	31.00	2.259E-04	Pulse	1.00	3
Cd			2	0.005	ug/l	326.61	15.53	1.629E-05	Pulse	0.30	3
Sn			2	0.722	ug/l	0.82	1,284.51	1.343E-03	Pulse	0.30	3
Se			3	0.207	ug/l	61.98	17.87	1.417E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,001,283.36	3.49	96.2	Analog	0.10	3
1	Sc		3,303,893.28	6.08	96.8	Analog	0.10	3
1	Ge		662,499.06	6.02	97.7	Pulse	0.10	3
1	Ge		924,614.78	5.75	98.0	Pulse	0.10	3
1	Rh		4,779,852.43	5.41	96.2	Analog	0.10	3
1	In		5,015,799.98	4.92	96.3	Analog	0.10	3
1	Tb		6,883,748.44	5.18	95.7	Analog	0.10	3
1	Ho		6,875,368.65	5.51	95.6	Analog	0.10	3
1	Bi		3,937,678.79	5.72	94.5	Analog	0.10	3
2	Sc		137,845.48	1.70	100.0	Pulse	0.30	3
2	Ge		93,043.55	1.35	99.9	Pulse	0.30	3
2	Ge		141,861.08	1.27	101.6	Pulse	0.30	3
2	Rh		2,647,760.31	1.49	98.6	Analog	0.30	3
2	In		956,317.39	1.00	99.2	Pulse	0.30	3
2	Tb		3,750,840.40	0.54	97.5	Analog	0.30	3
2	Ho		3,863,992.21	0.99	99.8	Analog	0.30	3
2	Bi		2,455,609.28	0.95	98.5	Analog	0.30	3
3	Sc		120,525.47	0.54	100.1	Pulse	0.30	3
3	Ge		83,491.75	0.24	102.1	Pulse	0.30	3
3	Ge		126,188.40	1.11	100.8	Pulse	0.30	3
3	Rh		1,503,651.54	0.50	99.7	Analog	0.30	3
3	Tb		2,788,391.28	0.25	96.6	Analog	0.30	3

Quantitation Report

File Name	059SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:38
Sample Name	JD49400-1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.871	ug/l	6.32	1,053.38	2.664E-04	Pulse	0.25	3
B			1	9.115	ug/l	8.24	16,508.29	4.182E-03	Pulse	0.15	3
Ca			1	99051.338	ug/l	1.21	10,640,534.64	3.204E+00	Analog	0.10	3
Sr			1	80.458	ug/l	1.01	401,324.99	8.726E-02	Pulse	0.10	3
Mo			1	2.956	ug/l	8.26	2,913.73	6.349E-04	Pulse	0.10	3
Ag			1	0.171	ug/l	26.80	333.35	6.866E-05	Pulse	0.10	3
Sn			1	13.028	ug/l	3.42	22,082.96	4.505E-03	Pulse	0.10	3
Sb			1	0.542	ug/l	29.70	1,580.14	2.309E-04	Pulse	0.10	3
Ba			1	249.384	ug/l	0.57	194,273.41	2.817E-02	Pulse	0.10	3
Tl			1	0.193	ug/l	15.42	1,170.08	2.953E-04	Pulse	0.10	3
Pb			1	35.345	ug/l	0.80	62,077.71	1.561E-02	Pulse	0.10	3
Pb			1	33.144	ug/l	2.27	50,792.00	1.277E-02	Pulse	0.10	3
Pb			1	33.923	ug/l	1.60	238,881.68	6.006E-02	Pulse	0.10	3
Na			2	313.446	ug/l	1.30	39,801.17	2.923E-01	Pulse	0.30	3
Mg			2	28809.672	ug/l	1.19	1,676,313.33	1.231E+01	Analog	0.30	3
Al			2	25147.197	ug/l	0.63	482,733.35	3.545E+00	Pulse	0.30	3
K			2	3095.463	ug/l	0.95	130,942.52	9.614E-01	Pulse	0.30	3
Ca			2	101185.979	ug/l	0.37	218,741.99	1.606E+00	Pulse	0.30	3
Ti			2	172.774	ug/l	4.82	2,672.48	1.963E-02	Pulse	0.30	3
V			2	246.324	ug/l	0.82	128,372.26	9.426E-01	Pulse	0.30	3
Cr			2	29.991	ug/l	1.29	19,791.98	1.453E-01	Pulse	0.30	3
Mn			2	756.530	ug/l	0.54	264,519.96	1.942E+00	Pulse	0.30	3
Fe			2	39168.836	ug/l	0.28	21,682,640.25	1.592E+02	Analog	0.30	3
Co			2	17.416	ug/l	1.72	18,809.07	1.381E-01	Pulse	0.30	3
Ni			2	118.960	ug/l	2.49	35,248.80	2.588E-01	Pulse	0.30	3
Cu			2	54.808	ug/l	0.44	44,445.46	3.263E-01	Pulse	0.30	3
Zn			2	743.557	ug/l	1.23	100,776.62	7.400E-01	Pulse	0.30	3
As			2	75.545	ug/l	1.09	5,162.16	3.790E-02	Pulse	1.00	3
Cd			2	0.227	ug/l	21.91	55.39	5.931E-05	Pulse	0.30	3
Sn			2	14.199	ug/l	1.69	5,816.69	6.227E-03	Pulse	0.30	3
Se			3	1.437	ug/l	27.65	21.20	1.759E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,948,187.74	4.57	94.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,320,295.68	4.31	97.3	Analog	0.10	3
1	Ge		642,480.85	5.70	94.7	Pulse	0.10	3
1	Ge		894,624.88	5.48	94.8	Pulse	0.10	3
1	Rh		4,598,760.14	5.85	92.6	Analog	0.10	3
1	In		4,906,110.27	5.75	94.1	Analog	0.10	3
1	Tb		6,895,415.73	5.78	95.9	Analog	0.10	3
1	Ho		6,884,747.19	5.52	95.7	Analog	0.10	3
1	Bi		3,975,612.65	5.21	95.4	Analog	0.10	3
2	Sc		136,192.07	0.76	98.8	Pulse	0.30	3
2	Ge		91,496.27	1.04	98.2	Pulse	0.30	3
2	Ge		136,748.80	0.54	98.0	Pulse	0.30	3
2	Rh		2,578,603.72	0.71	96.0	Analog	0.30	3
2	In		934,111.24	0.32	96.9	Pulse	0.30	3
2	Tb		3,774,053.05	0.60	98.1	Analog	0.30	3
2	Ho		3,849,825.26	0.54	99.4	Analog	0.30	3
2	Bi		2,490,077.40	0.32	99.9	Analog	0.30	3
3	Sc		115,437.88	2.35	95.8	Pulse	0.30	3
3	Ge		78,793.14	0.30	96.3	Pulse	0.30	3
3	Ge		120,711.24	1.17	96.4	Pulse	0.30	3
3	Rh		1,434,366.92	2.04	95.1	Analog	0.30	3
3	Tb		2,804,985.17	1.08	97.2	Analog	0.30	3

Quantitation Report

File Name	060SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:42
Sample Name	JD49193-1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.245	ug/l	2.27	4,707.39	1.167E-03	Pulse	0.25	3
B			1	34.982	ug/l	8.22	30,924.17	7.661E-03	Pulse	0.15	3
Ca			1	58174.906	ug/l	3.70	6,439,430.11	1.883E+00	Analog	0.10	3
Sr			1	166.455	ug/l	0.22	839,576.99	1.804E-01	Pulse	0.10	3
Mo			1	4.829	ug/l	1.55	4,790.91	1.030E-03	Pulse	0.10	3
Ag			1	2.478	ug/l	3.48	5,921.36	1.197E-03	Pulse	0.10	3
Sn			1	18.916	ug/l	6.18	31,599.76	6.403E-03	Pulse	0.10	3
Sb			1	0.274	ug/l	10.38	1,086.75	1.562E-04	Pulse	0.10	3
Ba			1	2105.888	ug/l	1.28	1,655,563.88	2.379E-01	Analog	0.10	3
Tl			1	1.070	ug/l	5.68	5,364.48	1.370E-03	Pulse	0.10	3
Pb			1	840.899	ug/l	1.23	1,389,286.39	3.545E-01	Analog	0.10	3
Pb			1	771.474	ug/l	1.34	1,113,274.59	2.840E-01	Pulse	0.10	3
Pb			1	799.591	ug/l	0.71	5,295,878.02	1.351E+00	Analog	0.10	3
Na			2	876.760	ug/l	0.69	106,532.60	7.805E-01	Pulse	0.30	3
Mg			2	42514.187	ug/l	1.32	2,478,827.12	1.816E+01	Analog	0.30	3
Al			2	86475.618	ug/l	1.06	1,663,124.48	1.218E+01	Analog	0.30	3
K			2	20233.762	ug/l	0.76	815,381.98	5.973E+00	Pulse	0.30	3
Ca			2	58150.157	ug/l	0.62	126,004.80	9.231E-01	Pulse	0.30	3
Ti			2	1153.798	ug/l	2.54	17,861.51	1.309E-01	Pulse	0.30	3
V			2	150.035	ug/l	1.05	78,424.88	5.746E-01	Pulse	0.30	3
Cr			2	151.440	ug/l	1.20	99,690.09	7.304E-01	Pulse	0.30	3
Mn			2	2530.841	ug/l	0.98	886,548.51	6.495E+00	Pulse	0.30	3
Fe			2	107490.883	ug/l	1.28	59,577,057.63	4.365E+02	Analog	0.30	3
Co			2	44.720	ug/l	2.20	48,356.91	3.543E-01	Pulse	0.30	3
Ni			2	99.308	ug/l	0.83	29,707.91	2.176E-01	Pulse	0.30	3
Cu			2	352.182	ug/l	0.53	279,303.77	2.046E+00	Pulse	0.30	3
Zn			2	1389.281	ug/l	0.99	181,143.51	1.327E+00	Pulse	0.30	3
As			2	50.715	ug/l	1.15	3,476.38	2.547E-02	Pulse	1.00	3
Cd			2	9.854	ug/l	2.70	1,873.16	2.086E-03	Pulse	0.30	3
Sn			2	20.842	ug/l	1.79	8,343.41	9.290E-03	Pulse	0.30	3
Se			3	4.565	ug/l	1.41	50.87	4.425E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,033,372.16	2.22	97.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,424,875.26	6.28	100.4	Analog	0.10	3
1	Ge		666,047.90	4.10	98.2	Pulse	0.10	3
1	Ge		923,339.60	3.81	97.8	Pulse	0.10	3
1	Rh		4,653,336.80	4.04	93.7	Analog	0.10	3
1	In		4,943,860.91	4.31	94.9	Analog	0.10	3
1	Tb		6,958,827.61	3.05	96.8	Analog	0.10	3
1	Ho		6,989,692.19	3.31	97.1	Analog	0.10	3
1	Bi		3,918,865.36	2.93	94.0	Analog	0.10	3
2	Sc		136,500.06	1.72	99.1	Pulse	0.30	3
2	Ge		91,009.12	1.69	97.7	Pulse	0.30	3
2	Ge		135,025.99	1.31	96.7	Pulse	0.30	3
2	Rh		2,415,491.43	1.31	90.0	Analog	0.30	3
2	In		898,237.66	1.54	93.2	Pulse	0.30	3
2	Tb		3,555,644.86	0.63	92.4	Analog	0.30	3
2	Ho		3,653,036.10	0.73	94.3	Analog	0.30	3
2	Bi		2,291,521.92	1.07	91.9	Analog	0.30	3
3	Sc		114,479.34	3.07	95.0	Pulse	0.30	3
3	Ge		77,148.65	2.71	94.3	Pulse	0.30	3
3	Ge		114,935.31	1.26	91.8	Pulse	0.30	3
3	Rh		1,230,388.39	2.58	81.6	Pulse	0.30	3
3	Tb		2,568,581.01	2.83	89.0	Analog	0.30	3

Quantitation Report

File Name	061SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:45
Sample Name	JD49193-2
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.841	ug/l	26.45	3,056.37	1.060E-03	Pulse	0.25	3
B			1	37.473	ug/l	30.28	27,786.54	7.996E-03	Pulse	0.15	3
Ca			1	53627.116	ug/l	0.19	4,873,758.83	1.736E+00	Analog	0.10	3
Sr			1	154.604	ug/l	0.31	639,244.37	1.676E-01	Pulse	0.10	3
Mo			1	8.673	ug/l	8.30	6,842.14	1.841E-03	Pulse	0.10	3
Ag			1	2.624	ug/l	4.01	5,104.63	1.268E-03	Pulse	0.10	3
Sn			1	16.005	ug/l	4.14	21,408.29	5.464E-03	Pulse	0.10	3
Sb			1	1.314	ug/l	110.90	1,543.50	4.464E-04	Pulse	0.10	3
Ba			1	2053.471	ug/l	5.68	1,335,464.88	2.319E-01	Mix	0.10	3
Tl			1	1.108	ug/l	47.91	3,593.98	1.417E-03	Pulse	0.10	3
Pb			1	814.065	ug/l	4.95	1,105,361.47	3.432E-01	Mix	0.10	3
Pb			1	777.533	ug/l	4.92	921,757.71	2.862E-01	Mix	0.10	3
Pb			1	785.574	ug/l	4.59	4,270,159.14	1.328E+00	Mix	0.10	3
Na			2	1021.469	ug/l	1.10	131,449.94	9.059E-01	Pulse	0.30	3
Mg			2	36895.392	ug/l	2.82	2,287,902.41	1.576E+01	Analog	0.30	3
Al			2	65515.368	ug/l	2.87	1,339,828.35	9.231E+00	Analog	0.30	3
K			2	15772.402	ug/l	1.79	677,574.14	4.669E+00	Pulse	0.30	3
Ca			2	55389.450	ug/l	1.49	127,610.56	8.793E-01	Pulse	0.30	3
Ti			2	1067.164	ug/l	2.73	17,562.70	1.211E-01	Pulse	0.30	3
V			2	140.159	ug/l	2.39	77,910.65	5.368E-01	Pulse	0.30	3
Cr			2	203.065	ug/l	1.93	142,093.26	9.790E-01	Pulse	0.30	3
Mn			2	2112.025	ug/l	1.95	786,671.34	5.420E+00	Pulse	0.30	3
Fe			2	93238.993	ug/l	2.60	54,956,043.37	3.787E+02	Analog	0.30	3
Co			2	39.431	ug/l	1.01	45,337.56	3.124E-01	Pulse	0.30	3
Ni			2	98.673	ug/l	1.33	31,393.25	2.163E-01	Pulse	0.30	3
Cu			2	327.340	ug/l	1.53	276,095.97	1.902E+00	Pulse	0.30	3
Zn			2	2038.652	ug/l	0.90	278,269.19	1.917E+00	Pulse	0.30	3
As			2	39.493	ug/l	2.93	2,881.26	1.985E-02	Pulse	1.00	3
Cd			2	6.332	ug/l	1.82	1,297.32	1.345E-03	Pulse	0.30	3
Sn			2	16.505	ug/l	3.85	7,028.36	7.290E-03	Pulse	0.30	3
Se			3	3.003	ug/l	13.70	32.33	3.094E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,225,293.76	61.94	77.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,807,942.98	65.07	82.3	Mix	0.10	3
1	Ge		543,258.92	66.11	80.1	Pulse	0.10	3
1	Ge		754,722.70	65.91	80.0	Pulse	0.10	3
1	Rh		3,809,380.98	65.45	76.7	Analog	0.10	3
1	In		3,977,159.66	64.41	76.3	Analog	0.10	3
1	Tb		5,622,108.35	64.19	78.2	Analog	0.10	3
1	Ho		5,536,488.93	64.45	76.9	Analog	0.10	3
1	Bi		3,154,499.41	64.23	75.7	Analog	0.10	3
2	Sc		145,108.30	1.58	105.3	Pulse	0.30	3
2	Ge		97,020.36	1.73	104.1	Pulse	0.30	3
2	Ge		144,539.10	2.51	103.5	Pulse	0.30	3
2	Rh		2,632,072.88	3.46	98.0	Analog	0.30	3
2	In		964,663.95	2.55	100.1	Pulse	0.30	3
2	Tb		3,806,740.41	3.12	98.9	Analog	0.30	3
2	Ho		3,880,128.18	3.19	100.2	Analog	0.30	3
2	Bi		2,443,591.99	2.86	98.0	Analog	0.30	3
3	Sc		101,773.99	5.05	84.5	Pulse	0.30	3
3	Ge		68,880.38	5.93	84.2	Pulse	0.30	3
3	Ge		104,998.41	6.59	83.8	Pulse	0.30	3
3	Rh		1,108,438.15	6.71	73.5	Pulse	0.30	3
3	Tb		2,295,632.96	6.53	79.5	Analog	0.30	3

Quantitation Report

File Name	062SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:48
Sample Name	JD49193-3
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.288	ug/l	2.68	3,829.83	9.120E-04	Pulse	0.25	3
B			1	47.410	ug/l	9.44	39,219.05	9.333E-03	Pulse	0.15	3
Ca			1	54314.796	ug/l	1.42	6,330,039.49	1.758E+00	Analog	0.10	3
Sr			1	161.897	ug/l	0.24	849,032.57	1.755E-01	Pulse	0.10	3
Mo			1	10.427	ug/l	3.21	10,700.63	2.211E-03	Pulse	0.10	3
Ag			1	2.953	ug/l	4.66	7,268.63	1.429E-03	Pulse	0.10	3
Sn			1	45.826	ug/l	0.97	76,757.63	1.507E-02	Pulse	0.10	3
Sb			1	4.907	ug/l	2.72	10,347.09	1.450E-03	Pulse	0.10	3
Ba			1	2215.866	ug/l	0.38	1,785,991.17	2.503E-01	Analog	0.10	3
Tl			1	0.775	ug/l	0.11	4,104.05	1.009E-03	Pulse	0.10	3
Pb			1	858.077	ug/l	0.62	1,471,506.49	3.617E-01	Analog	0.10	3
Pb			1	808.270	ug/l	1.25	1,210,602.33	2.975E-01	Mix	0.10	3
Pb			1	826.368	ug/l	0.75	5,681,483.77	1.396E+00	Analog	0.10	3
Na			2	1046.118	ug/l	3.25	133,063.19	9.273E-01	Pulse	0.30	3
Mg			2	37150.093	ug/l	1.33	2,277,780.40	1.587E+01	Analog	0.30	3
Al			2	66105.279	ug/l	0.39	1,336,845.92	9.314E+00	Analog	0.30	3
K			2	16121.685	ug/l	1.34	684,689.75	4.771E+00	Pulse	0.30	3
Ca			2	54593.036	ug/l	0.64	124,388.59	8.667E-01	Pulse	0.30	3
Ti			2	1991.134	ug/l	6.40	32,402.47	2.259E-01	Pulse	0.30	3
V			2	173.750	ug/l	0.47	95,480.04	6.652E-01	Pulse	0.30	3
Cr			2	218.067	ug/l	0.60	150,888.03	1.051E+00	Pulse	0.30	3
Mn			2	2108.350	ug/l	0.39	776,622.83	5.411E+00	Pulse	0.30	3
Fe			2	109036.147	ug/l	0.26	63,549,606.36	4.428E+02	Analog	0.30	3
Co			2	41.364	ug/l	0.87	47,035.71	3.277E-01	Pulse	0.30	3
Ni			2	97.713	ug/l	2.37	30,757.68	2.143E-01	Pulse	0.30	3
Cu			2	309.458	ug/l	0.92	258,203.06	1.799E+00	Pulse	0.30	3
Zn			2	2046.112	ug/l	1.08	276,177.27	1.924E+00	Pulse	0.30	3
As			2	41.701	ug/l	2.31	3,008.29	2.096E-02	Pulse	1.00	3
Cd			2	6.537	ug/l	3.28	1,318.29	1.388E-03	Pulse	0.30	3
Sn			2	46.669	ug/l	0.76	20,140.76	2.120E-02	Pulse	0.30	3
Se			3	2.881	ug/l	17.06	36.40	2.989E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,197,938.06	2.53	100.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,599,010.26	3.71	105.5	Analog	0.10	3
1	Ge		698,667.93	4.73	103.0	Pulse	0.10	3
1	Ge		967,460.06	4.42	102.5	Pulse	0.10	3
1	Rh		4,837,669.30	4.33	97.4	Analog	0.10	3
1	In		5,092,953.24	3.83	97.7	Analog	0.10	3
1	Tb		7,135,788.43	3.35	99.2	Analog	0.10	3
1	Ho		7,076,950.31	3.89	98.4	Analog	0.10	3
1	Bi		4,068,008.06	3.06	97.6	Analog	0.10	3
2	Sc		143,530.63	1.13	104.2	Pulse	0.30	3
2	Ge		95,538.05	0.74	102.5	Pulse	0.30	3
2	Ge		142,454.66	0.61	102.0	Pulse	0.30	3
2	Rh		2,560,655.52	0.70	95.4	Analog	0.30	3
2	In		950,021.48	0.61	98.6	Pulse	0.30	3
2	Tb		3,714,137.35	1.32	96.5	Analog	0.30	3
2	Ho		3,818,817.35	1.45	98.6	Analog	0.30	3
2	Bi		2,410,593.86	0.99	96.7	Analog	0.30	3
3	Sc		118,896.03	0.62	98.7	Pulse	0.30	3
3	Ge		80,164.04	0.86	98.0	Pulse	0.30	3
3	Ge		121,814.33	0.61	97.3	Pulse	0.30	3
3	Rh		1,375,554.25	1.02	91.2	Analog	0.30	3
3	Tb		2,685,242.88	0.67	93.0	Analog	0.30	3

Quantitation Report

File Name	063SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:52
Sample Name	JD49193-4
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.335	ug/l	2.57	5,050.14	1.192E-03	Pulse	0.25	3
B			1	62.196	ug/l	4.99	48,041.59	1.132E-02	Pulse	0.15	3
Ca			1	58011.670	ug/l	1.24	6,903,439.27	1.878E+00	Analog	0.10	3
Sr			1	232.315	ug/l	1.27	1,246,438.34	2.518E-01	Mix	0.10	3
Mo			1	6.309	ug/l	0.17	6,641.65	1.342E-03	Pulse	0.10	3
Ag			1	3.187	ug/l	2.25	8,079.04	1.543E-03	Pulse	0.10	3
Sn			1	56.122	ug/l	1.21	96,279.46	1.839E-02	Pulse	0.10	3
Sb			1	6.836	ug/l	3.96	14,754.11	1.988E-03	Pulse	0.10	3
Ba			1	2365.360	ug/l	0.51	1,980,678.15	2.672E-01	Analog	0.10	3
Tl			1	1.019	ug/l	1.75	5,437.88	1.307E-03	Pulse	0.10	3
Pb			1	1729.607	ug/l	0.62	3,027,909.75	7.283E-01	Analog	0.10	3
Pb			1	1677.760	ug/l	1.28	2,564,602.36	6.169E-01	Analog	0.10	3
Pb			1	1669.297	ug/l	0.80	11,715,532.22	2.818E+00	Analog	0.10	3
Na			2	1209.839	ug/l	11.99	155,229.70	1.069E+00	Pulse	0.30	3
Mg			2	37584.885	ug/l	0.55	2,329,790.74	1.606E+01	Analog	0.30	3
Al			2	77522.020	ug/l	0.29	1,584,824.10	1.092E+01	Analog	0.30	3
K			2	20249.605	ug/l	1.15	867,375.09	5.978E+00	Pulse	0.30	3
Ca			2	59149.893	ug/l	0.39	136,248.58	9.390E-01	Pulse	0.30	3
Ti			2	2370.074	ug/l	1.68	39,010.72	2.688E-01	Pulse	0.30	3
V			2	201.463	ug/l	1.20	111,887.01	7.711E-01	Pulse	0.30	3
Cr			2	155.671	ug/l	1.25	108,928.70	7.507E-01	Pulse	0.30	3
Mn			2	2577.136	ug/l	0.44	959,662.70	6.614E+00	Pulse	0.30	3
Fe			2	114476.022	ug/l	0.24	67,447,486.21	4.648E+02	Analog	0.30	3
Co			2	45.561	ug/l	0.75	52,372.41	3.610E-01	Pulse	0.30	3
Ni			2	100.519	ug/l	2.50	31,951.03	2.202E-01	Pulse	0.30	3
Cu			2	438.672	ug/l	0.85	369,459.99	2.546E+00	Pulse	0.30	3
Zn			2	2116.136	ug/l	0.38	288,448.75	1.988E+00	Pulse	0.30	3
As			2	60.396	ug/l	0.38	4,398.94	3.032E-02	Pulse	1.00	3
Cd			2	6.928	ug/l	3.01	1,421.89	1.470E-03	Pulse	0.30	3
Sn			2	57.983	ug/l	2.04	25,558.58	2.642E-02	Pulse	0.30	3
Se			3	3.829	ug/l	4.38	47.47	3.798E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,239,223.85	4.07	101.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,677,616.30	5.13	107.8	Analog	0.10	3
1	Ge		714,558.68	4.44	105.4	Pulse	0.10	3
1	Ge		989,413.03	5.30	104.8	Pulse	0.10	3
1	Rh		4,948,982.53	4.97	99.6	Analog	0.10	3
1	In		5,236,243.40	4.46	100.5	Analog	0.10	3
1	Tb		7,412,934.05	3.79	103.1	Analog	0.10	3
1	Ho		7,330,093.22	4.47	101.9	Analog	0.10	3
1	Bi		4,158,379.00	4.36	99.8	Analog	0.10	3
2	Sc		145,098.78	0.80	105.3	Pulse	0.30	3
2	Ge		97,597.93	0.58	104.8	Pulse	0.30	3
2	Ge		145,104.15	1.18	103.9	Pulse	0.30	3
2	Rh		2,611,873.16	0.34	97.3	Analog	0.30	3
2	In		967,512.79	1.35	100.4	Pulse	0.30	3
2	Tb		3,819,076.10	0.06	99.3	Analog	0.30	3
2	Ho		3,903,458.32	0.72	100.8	Analog	0.30	3
2	Bi		2,481,500.32	0.30	99.6	Analog	0.30	3
3	Sc		123,847.05	0.25	102.8	Pulse	0.30	3
3	Ge		83,190.24	1.66	101.7	Pulse	0.30	3
3	Ge		125,000.40	0.27	99.8	Pulse	0.30	3
3	Rh		1,443,403.55	1.27	95.7	Analog	0.30	3
3	Tb		2,796,683.57	1.08	96.9	Analog	0.30	3

Quantitation Report

File Name	064SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:55
Sample Name	JD49193-6
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.753	ug/l	4.87	5,330.24	1.303E-03	Pulse	0.25	3
B			1	52.350	ug/l	9.97	40,905.49	9.997E-03	Pulse	0.15	3
Ca			1	70177.850	ug/l	0.60	7,949,737.17	2.271E+00	Analog	0.10	3
Sr			1	199.830	ug/l	0.57	1,033,668.37	2.166E-01	Pulse	0.10	3
Mo			1	4.212	ug/l	3.10	4,297.44	8.999E-04	Pulse	0.10	3
Ag			1	2.557	ug/l	1.90	6,174.80	1.235E-03	Pulse	0.10	3
Sn			1	42.107	ug/l	1.10	69,366.83	1.388E-02	Pulse	0.10	3
Sb			1	6.489	ug/l	2.36	13,483.00	1.891E-03	Pulse	0.10	3
Ba			1	2255.192	ug/l	0.70	1,816,503.10	2.547E-01	Analog	0.10	3
Tl			1	1.133	ug/l	5.28	5,811.36	1.447E-03	Pulse	0.10	3
Pb			1	1120.145	ug/l	2.04	1,898,361.33	4.719E-01	Analog	0.10	3
Pb			1	1090.811	ug/l	0.44	1,614,049.25	4.013E-01	Analog	0.10	3
Pb			1	1085.396	ug/l	1.02	7,372,573.64	1.833E+00	Analog	0.10	3
Na			2	1067.491	ug/l	5.32	140,385.08	9.458E-01	Pulse	0.30	3
Mg			2	40381.555	ug/l	1.07	2,560,711.56	1.725E+01	Analog	0.30	3
Al			2	82194.003	ug/l	2.01	1,718,832.74	1.158E+01	Analog	0.30	3
K			2	16166.260	ug/l	0.48	710,093.96	4.784E+00	Pulse	0.30	3
Ca			2	69514.279	ug/l	1.12	163,802.61	1.103E+00	Pulse	0.30	3
Ti			2	2502.751	ug/l	1.77	42,137.64	2.839E-01	Pulse	0.30	3
V			2	261.753	ug/l	0.16	148,673.44	1.002E+00	Pulse	0.30	3
Cr			2	131.992	ug/l	1.56	94,508.17	6.367E-01	Pulse	0.30	3
Mn			2	2612.019	ug/l	1.14	995,046.77	6.703E+00	Pulse	0.30	3
Fe			2	116667.983	ug/l	1.13	70,321,921.65	4.737E+02	Analog	0.30	3
Co			2	42.281	ug/l	0.32	49,725.40	3.350E-01	Pulse	0.30	3
Ni			2	87.898	ug/l	1.07	28,757.41	1.937E-01	Pulse	0.30	3
Cu			2	344.995	ug/l	0.09	297,557.26	2.005E+00	Pulse	0.30	3
Zn			2	2182.928	ug/l	1.00	304,103.23	2.049E+00	Pulse	0.30	3
As			2	61.678	ug/l	2.33	4,595.67	3.096E-02	Pulse	1.00	3
Cd			2	7.147	ug/l	2.58	1,479.81	1.516E-03	Pulse	0.30	3
Sn			2	42.295	ug/l	0.73	18,726.81	1.918E-02	Pulse	0.30	3
Se			3	3.904	ug/l	13.71	49.13	3.862E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,085,303.65	3.38	98.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,500,136.20	5.19	102.6	Analog	0.10	3
1	Ge		678,720.85	5.57	100.1	Pulse	0.10	3
1	Ge		941,647.51	5.35	99.8	Pulse	0.10	3
1	Rh		4,771,528.26	5.24	96.0	Analog	0.10	3
1	In		4,997,987.69	4.54	95.9	Analog	0.10	3
1	Tb		7,130,071.56	5.01	99.2	Analog	0.10	3
1	Ho		7,052,342.40	4.66	98.0	Analog	0.10	3
1	Bi		4,021,665.36	4.58	96.5	Analog	0.10	3
2	Sc		148,439.21	0.71	107.7	Pulse	0.30	3
2	Ge		98,657.64	0.72	105.9	Pulse	0.30	3
2	Ge		145,776.79	0.93	104.4	Pulse	0.30	3
2	Rh		2,629,725.24	1.69	97.9	Analog	0.30	3
2	In		976,247.55	0.86	101.3	Pulse	0.30	3
2	Tb		3,867,170.26	0.37	100.5	Analog	0.30	3
2	Ho		3,954,600.82	1.36	102.1	Analog	0.30	3
2	Bi		2,471,196.78	0.42	99.2	Analog	0.30	3
3	Sc		125,607.14	0.93	104.3	Pulse	0.30	3
3	Ge		84,019.86	0.72	102.7	Pulse	0.30	3
3	Ge		127,140.03	1.62	101.5	Pulse	0.30	3
3	Rh		1,448,754.87	0.54	96.1	Analog	0.30	3
3	Tb		2,818,989.47	0.82	97.7	Analog	0.30	3

Quantitation Report

File Name	065SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 13:58
Sample Name	JD49193-7
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.716	ug/l	2.85	3,903.17	1.026E-03	Pulse	0.25	3
B			1	61.130	ug/l	6.07	42,565.01	1.118E-02	Pulse	0.15	3
Ca			1	53564.459	ug/l	0.48	5,534,992.00	1.734E+00	Analog	0.10	3
Sr			1	199.474	ug/l	1.01	937,759.49	2.162E-01	Pulse	0.10	3
Mo			1	4.977	ug/l	7.14	4,604.14	1.061E-03	Pulse	0.10	3
Ag			1	1.714	ug/l	3.13	3,770.58	8.229E-04	Pulse	0.10	3
Sn			1	36.030	ug/l	1.47	54,575.53	1.192E-02	Pulse	0.10	3
Sb			1	9.975	ug/l	2.18	18,492.20	2.865E-03	Pulse	0.10	3
Ba			1	2296.346	ug/l	0.68	1,673,594.09	2.594E-01	Analog	0.10	3
Tl			1	0.932	ug/l	2.79	4,390.81	1.201E-03	Pulse	0.10	3
Pb			1	1137.223	ug/l	0.82	1,752,495.03	4.791E-01	Analog	0.10	3
Pb			1	1096.632	ug/l	0.44	1,475,981.07	4.035E-01	Analog	0.10	3
Pb			1	1096.591	ug/l	0.40	6,775,408.34	1.852E+00	Analog	0.10	3
Na			2	1048.144	ug/l	0.82	104,130.04	9.290E-01	Pulse	0.30	3
Mg			2	39485.940	ug/l	0.74	1,888,916.04	1.687E+01	Analog	0.30	3
Al			2	74538.570	ug/l	2.69	1,178,435.96	1.050E+01	Mix	0.30	3
K			2	28783.158	ug/l	0.51	948,926.98	8.474E+00	Pulse	0.30	3
Ca			2	54221.655	ug/l	1.56	96,329.67	8.608E-01	Pulse	0.30	3
Ti			2	2294.408	ug/l	1.56	29,166.04	2.603E-01	Pulse	0.30	3
V			2	175.504	ug/l	1.58	75,191.63	6.719E-01	Pulse	0.30	3
Cr			2	122.289	ug/l	1.25	66,044.34	5.899E-01	Pulse	0.30	3
Mn			2	2531.554	ug/l	1.31	727,201.72	6.497E+00	Pulse	0.30	3
Fe			2	102096.895	ug/l	0.27	46,445,249.27	4.146E+02	Analog	0.30	3
Co			2	40.523	ug/l	2.13	35,929.88	3.211E-01	Pulse	0.30	3
Ni			2	77.658	ug/l	4.44	19,244.79	1.723E-01	Pulse	0.30	3
Cu			2	296.733	ug/l	1.16	193,154.70	1.725E+00	Pulse	0.30	3
Zn			2	1621.193	ug/l	1.52	172,137.13	1.538E+00	Pulse	0.30	3
As			2	50.924	ug/l	2.01	2,862.93	2.557E-02	Pulse	1.00	3
Cd			2	4.013	ug/l	8.92	636.44	8.564E-04	Pulse	0.30	3
Sn			2	37.176	ug/l	1.25	12,560.72	1.682E-02	Pulse	0.30	3
Se			3	5.132	ug/l	10.50	61.07	4.908E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,805,014.03	2.86	91.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,192,030.58	2.90	93.6	Analog	0.10	3
1	Ge		617,047.19	2.73	91.0	Pulse	0.10	3
1	Ge		850,475.17	2.90	90.1	Pulse	0.10	3
1	Rh		4,336,594.31	2.23	87.3	Analog	0.10	3
1	In		4,580,464.02	2.20	87.9	Analog	0.10	3
1	Tb		6,452,850.53	2.55	89.7	Analog	0.10	3
1	Ho		6,461,782.40	2.84	89.8	Analog	0.10	3
1	Bi		3,658,455.36	2.82	87.8	Analog	0.10	3
2	Sc		112,025.14	9.99	81.3	Pulse	0.30	3
2	Ge		75,349.77	9.50	80.9	Pulse	0.30	3
2	Ge		111,975.80	8.80	80.2	Pulse	0.30	3
2	Rh		2,035,681.65	9.28	75.8	Analog	0.30	3
2	In		746,111.59	8.83	77.4	Pulse	0.30	3
2	Tb		3,020,083.77	8.69	78.5	Analog	0.30	3
2	Ho		3,093,911.68	8.13	79.9	Analog	0.30	3
2	Bi		1,954,514.51	8.88	78.4	Analog	0.30	3
3	Sc		120,714.81	1.46	100.2	Pulse	0.30	3
3	Ge		81,960.72	1.13	100.2	Pulse	0.30	3
3	Ge		124,427.25	1.03	99.4	Pulse	0.30	3
3	Rh		1,423,017.89	1.31	94.4	Analog	0.30	3
3	Tb		2,741,031.00	1.09	95.0	Analog	0.30	3

Quantitation Report

File Name	066SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:02
Sample Name	JD49193-8
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.118	ug/l	5.38	3,497.76	1.134E-03	Pulse	0.25	3
B			1	32.414	ug/l	15.87	22,687.32	7.316E-03	Pulse	0.15	3
Ca			1	40623.647	ug/l	0.57	3,285,219.12	1.316E+00	Analog	0.10	3
Sr			1	173.268	ug/l	1.71	642,481.38	1.878E-01	Pulse	0.10	3
Mo			1	4.556	ug/l	4.20	3,310.47	9.724E-04	Pulse	0.10	3
Ag			1	2.013	ug/l	4.49	3,497.20	9.691E-04	Pulse	0.10	3
Sn			1	43.923	ug/l	1.52	51,988.05	1.446E-02	Pulse	0.10	3
Sb			1	5.427	ug/l	2.34	8,142.42	1.595E-03	Pulse	0.10	3
Ba			1	2166.243	ug/l	3.27	1,254,686.73	2.447E-01	Mix	0.10	3
Tl			1	1.052	ug/l	7.35	3,984.02	1.348E-03	Pulse	0.10	3
Pb			1	2354.541	ug/l	1.57	2,939,598.60	9.911E-01	Analog	0.10	3
Pb			1	2297.929	ug/l	1.61	2,506,043.30	8.448E-01	Analog	0.10	3
Pb			1	2291.863	ug/l	1.33	11,470,438.27	3.868E+00	Analog	0.10	3
Na			2	934.739	ug/l	0.92	115,451.16	8.307E-01	Pulse	0.30	3
Mg			2	34791.024	ug/l	2.54	2,064,373.39	1.486E+01	Analog	0.30	3
Al			2	76190.277	ug/l	1.49	1,491,279.11	1.073E+01	Analog	0.30	3
K			2	15770.143	ug/l	1.49	648,481.80	4.668E+00	Pulse	0.30	3
Ca			2	40907.750	ug/l	0.86	90,264.52	6.495E-01	Pulse	0.30	3
Ti			2	2650.905	ug/l	23.85	42,099.24	3.007E-01	Pulse	0.30	3
V			2	217.788	ug/l	0.58	115,874.57	8.335E-01	Pulse	0.30	3
Cr			2	238.594	ug/l	0.47	159,916.59	1.150E+00	Pulse	0.30	3
Mn			2	2385.287	ug/l	0.70	850,956.63	6.122E+00	Pulse	0.30	3
Fe			2	106815.087	ug/l	1.17	60,283,433.16	4.338E+02	Analog	0.30	3
Co			2	40.110	ug/l	1.66	44,174.63	3.178E-01	Pulse	0.30	3
Ni			2	79.925	ug/l	1.17	24,613.01	1.770E-01	Pulse	0.30	3
Cu			2	405.328	ug/l	0.48	327,176.02	2.353E+00	Pulse	0.30	3
Zn			2	2475.765	ug/l	0.96	321,693.61	2.315E+00	Pulse	0.30	3
As			2	52.570	ug/l	1.05	3,670.09	2.640E-02	Pulse	1.00	3
Cd			2	10.414	ug/l	5.03	2,049.88	2.204E-03	Pulse	0.30	3
Sn			2	44.364	ug/l	0.49	18,723.50	2.014E-02	Pulse	0.30	3
Se			3	3.822	ug/l	9.55	45.80	3.792E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,079,439.34	11.25	74.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,496,600.17	13.23	73.2	Analog	0.10	3
1	Ge		480,455.47	13.74	70.8	Pulse	0.10	3
1	Ge		665,151.43	13.70	70.5	Pulse	0.10	3
1	Rh		3,415,952.66	12.40	68.8	Analog	0.10	3
1	In		3,594,726.17	12.83	69.0	Analog	0.10	3
1	Tb		5,115,310.13	13.43	71.1	Analog	0.10	3
1	Ho		5,118,152.01	12.71	71.1	Analog	0.10	3
1	Bi		2,962,942.14	12.68	71.1	Analog	0.10	3
2	Sc		139,023.61	7.56	100.9	Pulse	0.30	3
2	Ge		92,182.31	6.98	98.9	Pulse	0.30	3
2	Ge		138,057.56	6.56	98.9	Pulse	0.30	3
2	Rh		2,525,798.02	7.22	94.1	Analog	0.30	3
2	In		929,926.75	7.92	96.5	Pulse	0.30	3
2	Tb		3,713,057.56	6.55	96.5	Analog	0.30	3
2	Ho		3,774,793.46	5.59	97.5	Analog	0.30	3
2	Bi		2,394,086.50	5.45	96.1	Analog	0.30	3
3	Sc		118,646.63	7.89	98.5	Pulse	0.30	3
3	Ge		79,849.95	6.90	97.6	Pulse	0.30	3
3	Ge		120,367.07	6.28	96.1	Pulse	0.30	3
3	Rh		1,390,960.29	7.95	92.2	Analog	0.30	3
3	Tb		2,741,442.39	6.48	95.0	Analog	0.30	3

Quantitation Report

File Name	067SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:05
Sample Name	JD49193-10
Sample Type	Sample
Comment	
Prep Dilution	25.000
Auto Dilution	N/A
Total Dilution	25.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.130	ug/l	9.45	1,137.39	2.543E-04	Pulse	0.25	3
B			1	33.219	ug/l	11.99	17,233.53	3.850E-03	Pulse	0.15	3
Ca			1	71800.930	ug/l	5.76	1,648,056.07	4.676E-01	Analog	0.10	3
Sr			1	297.611	ug/l	0.37	338,388.52	6.457E-02	Pulse	0.10	3
Mo			1	4.613	ug/l	1.24	1,080.08	2.061E-04	Pulse	0.10	3
Ag			1	3.902	ug/l	10.55	2,023.55	3.667E-04	Pulse	0.10	3
Sn			1	106.695	ug/l	0.51	39,580.85	7.183E-03	Pulse	0.10	3
Sb			1	9.971	ug/l	4.13	4,857.58	6.364E-04	Pulse	0.10	3
Ba			1	2468.658	ug/l	2.51	424,938.05	5.577E-02	Pulse	0.10	3
Tl			1	0.799	ug/l	14.98	1,110.09	2.541E-04	Pulse	0.10	3
Pb			1	1887.808	ug/l	3.51	697,856.00	1.596E-01	Pulse	0.10	3
Pb			1	1819.969	ug/l	3.73	587,402.62	1.343E-01	Pulse	0.10	3
Pb			1	1870.150	ug/l	4.22	2,770,411.78	6.336E-01	Analog	0.10	3
Na			2	2024.330	ug/l	0.34	57,288.92	3.715E-01	Pulse	0.30	3
Mg			2	35893.580	ug/l	0.60	473,407.17	3.070E+00	Pulse	0.30	3
Al			2	69406.678	ug/l	0.87	301,892.55	1.958E+00	Pulse	0.30	3
K			2	16231.895	ug/l	1.51	155,079.87	1.006E+00	Pulse	0.30	3
Ca			2	69864.893	ug/l	2.43	34,239.64	2.220E-01	Pulse	0.30	3
Ti			2	2201.365	ug/l	2.07	7,704.11	4.997E-02	Pulse	0.30	3
V			2	232.123	ug/l	2.00	27,531.91	1.785E-01	Pulse	0.30	3
Cr			2	260.436	ug/l	0.45	38,825.56	2.518E-01	Pulse	0.30	3
Mn			2	2640.441	ug/l	0.45	209,122.70	1.356E+00	Pulse	0.30	3
Fe			2	110120.725	ug/l	0.45	13,820,937.51	8.962E+01	Analog	0.30	3
Co			2	40.160	ug/l	1.55	9,840.20	6.382E-02	Pulse	0.30	3
Ni			2	83.748	ug/l	1.19	6,872.63	4.457E-02	Pulse	0.30	3
Cu			2	414.627	ug/l	1.13	75,406.22	4.890E-01	Pulse	0.30	3
Zn			2	2694.890	ug/l	1.38	85,433.84	5.540E-01	Pulse	0.30	3
As			2	55.276	ug/l	2.85	865.03	5.611E-03	Pulse	1.00	3
Cd			2	6.580	ug/l	8.84	309.93	2.885E-04	Pulse	0.30	3
Sn			2	117.784	ug/l	1.59	11,318.61	1.054E-02	Pulse	0.30	3
Se			3	1.943	ug/l	68.42	11.87	8.651E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,474,768.27	2.55	107.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,534,571.09	7.68	103.6	Analog	0.10	3
1	Ge		742,563.71	4.93	109.5	Pulse	0.10	3
1	Ge		1,028,767.25	4.18	109.0	Pulse	0.10	3
1	Rh		5,240,669.92	3.42	105.5	Analog	0.10	3
1	In		5,510,388.52	4.40	105.7	Analog	0.10	3
1	Tb		7,625,737.39	4.63	106.1	Analog	0.10	3
1	Ho		7,626,028.84	4.59	106.0	Analog	0.10	3
1	Bi		4,379,217.22	5.58	105.1	Analog	0.10	3
2	Sc		154,208.75	1.07	111.9	Pulse	0.30	3
2	Ge		105,529.81	1.45	113.3	Pulse	0.30	3
2	Ge		159,900.15	0.88	114.5	Pulse	0.30	3
2	Rh		2,913,417.73	1.03	108.5	Analog	0.30	3
2	In		1,073,620.17	0.94	111.4	Pulse	0.30	3
2	Tb		4,178,700.25	1.39	108.6	Analog	0.30	3
2	Ho		4,290,984.28	1.21	110.8	Analog	0.30	3
2	Bi		2,752,184.40	0.72	110.4	Analog	0.30	3
3	Sc		128,976.65	0.81	107.1	Pulse	0.30	3
3	Ge		90,343.31	0.97	110.4	Pulse	0.30	3
3	Ge		137,184.23	0.12	109.6	Pulse	0.30	3
3	Rh		1,616,781.53	0.27	107.2	Analog	0.30	3
3	Tb		3,053,570.64	0.49	105.8	Analog	0.30	3

Quantitation Report

File Name	068_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:08
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	52.243	ug/l	3.07	284,951.50	6.981E-02	Pulse	0.25	3
B			1	88.242	ug/l	12.97	254,850.75	6.230E-02	Pulse	0.15	3
Ca			1	5159.755	ug/l	5.43	2,996,336.00	8.372E-01	Analog	0.10	3
Sr			1	54.425	ug/l	2.56	1,401,705.92	2.949E-01	Analog	0.10	3
Mo			1	52.995	ug/l	3.39	265,746.26	5.590E-02	Pulse	0.10	3
Ag			1	53.786	ug/l	2.67	659,968.00	1.315E-01	Pulse	0.10	3
Sn			1	51.926	ug/l	2.48	421,527.57	8.397E-02	Pulse	0.10	3
Sb			1	54.249	ug/l	3.25	529,592.31	7.582E-02	Pulse	0.10	3
Ba			1	51.884	ug/l	2.70	204,652.69	2.930E-02	Pulse	0.10	3
Tl			1	51.990	ug/l	3.91	1,269,781.02	3.188E-01	Mix	0.10	3
Pb			1	52.094	ug/l	3.21	439,259.08	1.103E-01	Pulse	0.10	3
Pb			1	51.517	ug/l	2.47	379,121.97	9.522E-02	Pulse	0.10	3
Pb			1	52.035	ug/l	2.68	1,758,325.18	4.416E-01	Pulse	0.10	3
Na			2	5126.697	ug/l	1.85	3,371,324.03	2.224E+01	Analog	0.30	3
Mg			2	5128.118	ug/l	2.16	1,660,829.69	1.096E+01	Analog	0.30	3
Al			2	5118.261	ug/l	1.73	546,884.29	3.607E+00	Pulse	0.30	3
K			2	5139.655	ug/l	1.62	1,147,893.46	7.571E+00	Pulse	0.30	3
Ca			2	5319.561	ug/l	1.00	64,042.30	4.224E-01	Pulse	0.30	3
Ti			2	52.921	ug/l	0.96	4,556.24	3.004E-02	Pulse	0.30	3
V			2	51.215	ug/l	1.61	148,559.07	9.799E-01	Pulse	0.30	3
Cr			2	50.598	ug/l	1.70	184,892.74	1.220E+00	Pulse	0.30	3
Mn			2	50.509	ug/l	1.70	98,406.67	6.491E-01	Pulse	0.30	3
Fe			2	5190.057	ug/l	2.27	16,002,353.81	1.056E+02	Analog	0.30	3
Co			2	50.289	ug/l	1.98	301,843.47	1.991E+00	Pulse	0.30	3
Ni			2	50.122	ug/l	1.67	81,087.86	5.348E-01	Pulse	0.30	3
Cu			2	49.494	ug/l	1.75	218,400.85	1.441E+00	Pulse	0.30	3
Zn			2	47.526	ug/l	3.36	42,441.40	2.800E-01	Pulse	0.30	3
As			2	51.290	ug/l	1.49	19,479.93	1.285E-01	Pulse	1.00	3
Cd			2	49.636	ug/l	1.48	53,288.00	5.226E-02	Pulse	0.30	3
Sn			2	50.351	ug/l	1.37	118,054.70	1.158E-01	Pulse	0.30	3
Se			3	201.150	ug/l	0.08	11,697.96	8.579E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,079,277.77	3.47	98.1	Analog	0.10	3
1	Sc		3,577,987.76	1.03	104.9	Analog	0.10	3
1	Ge		684,652.97	5.31	100.9	Pulse	0.10	3

Quantitation Report

1	Ge		955,509.49	4.87	101.2	Pulse	0.10	3
1	Rh		4,749,200.66	4.42	95.6	Analog	0.10	3
1	In		5,016,133.16	4.97	96.3	Analog	0.10	3
1	Tb		6,978,712.40	4.27	97.1	Analog	0.10	3
1	Ho		6,955,188.44	4.56	96.7	Analog	0.10	3
1	Bi		3,979,519.00	3.19	95.5	Analog	0.10	3
2	Sc		151,642.25	2.02	110.1	Pulse	0.30	3
2	Ge		101,105.50	1.91	108.5	Pulse	0.30	3
2	Ge		151,720.12	2.47	108.7	Pulse	0.30	3
2	Rh		2,742,150.65	1.89	102.1	Analog	0.30	3
2	In		1,019,895.61	2.44	105.8	Pulse	0.30	3
2	Tb		3,974,371.23	2.25	103.3	Analog	0.30	3
2	Ho		4,081,212.20	1.78	105.4	Analog	0.30	3
2	Bi		2,532,123.09	1.85	101.6	Analog	0.30	3
3	Sc		131,012.03	0.59	108.8	Pulse	0.30	3
3	Ge		89,488.58	0.26	109.4	Pulse	0.30	3
3	Ge		136,357.01	0.44	108.9	Pulse	0.30	3
3	Rh		1,565,109.28	1.35	103.8	Analog	0.30	3
3	Tb		2,966,684.26	0.86	102.8	Analog	0.30	3

Quantitation Report

File Name	069BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:12
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.149	ug/l	143.37	981.42	2.328E-04	Pulse	0.25	3
B			1	8.683	ug/l	17.19	38,261.33	8.796E-03	Pulse	0.15	3
Ca			1	3.775	ug/l	534.62	15,024.27	4.316E-03	Pulse	0.10	3
Sr			1	0.133	ug/l	141.20	3,941.49	8.039E-04	Pulse	0.10	3
Mo			1	0.305	ug/l	90.98	1,653.55	3.330E-04	Pulse	0.10	3
Ag			1	0.254	ug/l	124.16	3,080.88	6.061E-04	Pulse	0.10	3
Sn			1	0.733	ug/l	48.37	7,782.40	1.488E-03	Pulse	0.10	3
Sb			1	0.243	ug/l	106.00	2,980.60	4.192E-04	Pulse	0.10	3
Ba			1	0.140	ug/l	126.19	573.39	8.150E-05	Pulse	0.10	3
Tl			1	0.245	ug/l	101.70	6,252.66	1.558E-03	Pulse	0.10	3
Pb			1	0.157	ug/l	116.61	4,394.21	1.074E-03	Pulse	0.10	3
Pb			1	0.182	ug/l	113.17	3,780.67	9.246E-04	Pulse	0.10	3
Pb			1	0.176	ug/l	115.86	17,698.71	4.330E-03	Pulse	0.10	3
Na			2	-0.312	ug/l	-58.40	2,962.52	1.924E-02	Pulse	0.30	3
Mg			2	0.007	ug/l	899.82	555.58	3.609E-03	Pulse	0.30	3
Al			2	-0.968	ug/l	-45.46	243.34	1.577E-03	Pulse	0.30	3
K			2	0.097	ug/l	985.72	8,670.10	5.632E-02	Pulse	0.30	3
Ca			2	-0.147	ug/l	-1133.46	36.67	2.383E-04	Pulse	0.30	3
Ti			2	0.159	ug/l	25.59	18.89	1.225E-04	Pulse	0.30	3
V			2	-0.002	ug/l	-502.61	160.00	1.037E-03	Pulse	0.30	3
Cr			2	0.013	ug/l	87.59	180.00	1.166E-03	Pulse	0.30	3
Mn			2	-0.012	ug/l	-47.84	141.11	9.157E-04	Pulse	0.30	3
Fe			2	5.834	ug/l	24.75	55,034.04	3.571E-01	Pulse	0.30	3
Co			2	-0.001	ug/l	-251.43	28.74	1.875E-04	Pulse	0.30	3
Ni			2	-0.163	ug/l	-5.14	1,192.28	7.743E-03	Pulse	0.30	3
Cu			2	-0.060	ug/l	-18.65	1,180.06	7.660E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.797	ug/l	-38.38	9,282.72	6.030E-02	Pulse	0.30	3
As			2	0.054	ug/l	51.33	32.33	2.107E-04	Pulse	1.00	3
Cd			2	0.004	ug/l	193.91	16.65	1.587E-05	Pulse	0.30	3
Sn			2	0.642	ug/l	0.45	1,217.84	1.158E-03	Pulse	0.30	3
Se			3	0.203	ug/l	10.92	19.47	1.398E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,364,573.85	4.38	104.9	Analog	0.10	3
1	Sc		3,578,843.07	5.62	104.9	Analog	0.10	3
1	Ge		716,443.50	4.82	105.6	Pulse	0.10	3
1	Ge		992,617.90	6.18	105.2	Pulse	0.10	3
1	Rh		5,124,038.78	5.53	103.1	Analog	0.10	3
1	In		5,297,310.10	4.85	101.7	Analog	0.10	3
1	Tb		7,306,882.81	4.98	101.6	Analog	0.10	3
1	Ho		7,283,038.64	5.13	101.2	Analog	0.10	3
1	Bi		4,139,040.46	4.92	99.3	Analog	0.10	3
2	Sc		153,982.31	1.61	111.8	Pulse	0.30	3
2	Ge		102,280.45	1.44	109.8	Pulse	0.30	3
2	Ge		155,900.21	1.80	111.7	Pulse	0.30	3
2	Rh		2,920,977.80	1.18	108.8	Analog	0.30	3
2	In		1,051,594.98	1.71	109.1	Pulse	0.30	3
2	Tb		4,057,064.84	1.25	105.4	Analog	0.30	3
2	Ho		4,115,091.09	0.69	106.3	Analog	0.30	3
2	Bi		2,601,731.49	1.10	104.4	Analog	0.30	3
3	Sc		132,866.73	0.23	110.3	Pulse	0.30	3
3	Ge		91,485.21	0.97	111.8	Pulse	0.30	3
3	Ge		139,198.15	0.78	111.2	Pulse	0.30	3
3	Rh		1,641,513.16	0.61	108.8	Analog	0.30	3
3	Tb		3,042,819.67	0.44	105.4	Analog	0.30	3

Quantitation Report

File Name	070SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:15
Sample Name	JD48158-1R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.222	ug/l	5.13	6,489.33	1.429E-03	Pulse	0.25	3
B			1	6.367	ug/l	4.90	17,302.46	3.813E-03	Pulse	0.15	3
Ca			1	4376.113	ug/l	2.20	610,297.87	1.451E-01	Pulse	0.10	3
Sr			1	30.755	ug/l	2.40	173,322.37	3.341E-02	Pulse	0.10	3
Mo			1	2.833	ug/l	2.81	3,160.41	6.091E-04	Pulse	0.10	3
Ag			1	0.169	ug/l	13.07	370.02	6.793E-05	Pulse	0.10	3
Sn			1	21.256	ug/l	1.73	38,862.34	7.156E-03	Pulse	0.10	3
Sb			1	0.095	ug/l	49.55	810.06	1.060E-04	Pulse	0.10	3
Ba			1	360.875	ug/l	2.37	312,536.30	4.076E-02	Pulse	0.10	3
Tl			1	2.018	ug/l	2.54	10,841.00	2.533E-03	Pulse	0.10	3
Pb			1	75.477	ug/l	3.10	139,093.17	3.249E-02	Pulse	0.10	3
Pb			1	71.893	ug/l	2.88	115,583.99	2.700E-02	Pulse	0.10	3
Pb			1	73.315	ug/l	3.11	541,446.81	1.265E-01	Pulse	0.10	3
Na			2	352.663	ug/l	0.87	54,026.85	3.262E-01	Pulse	0.30	3
Mg			2	15539.453	ug/l	0.89	1,099,715.79	6.641E+00	Pulse	0.30	3
Al			2	171919.764	ug/l	1.23	4,010,687.62	2.422E+01	Analog	0.30	3
K			2	16874.419	ug/l	0.87	826,494.92	4.991E+00	Pulse	0.30	3
Ca			2	4790.459	ug/l	0.69	12,631.54	7.628E-02	Pulse	0.30	3
Ti			2	6925.582	ug/l	1.70	130,076.81	7.855E-01	Pulse	0.30	3
V			2	404.675	ug/l	1.85	256,322.74	1.548E+00	Pulse	0.30	3
Cr			2	97.070	ug/l	2.26	77,574.62	4.685E-01	Pulse	0.30	3
Mn			2	1353.074	ug/l	1.53	575,109.70	3.473E+00	Pulse	0.30	3
Fe			2	160843.983	ug/l	1.96	108,136,266.81	6.530E+02	Analog	0.30	3
Co			2	36.166	ug/l	1.64	47,453.62	2.866E-01	Pulse	0.30	3
Ni			2	50.041	ug/l	1.71	18,937.63	1.144E-01	Pulse	0.30	3
Cu			2	84.980	ug/l	1.15	82,940.79	5.008E-01	Pulse	0.30	3
Zn			2	218.041	ug/l	1.13	43,417.36	2.622E-01	Pulse	0.30	3
As			2	7.140	ug/l	4.47	604.34	3.650E-03	Pulse	1.00	3
Cd			2	0.128	ug/l	40.07	38.68	3.850E-05	Pulse	0.30	3
Sn			2	24.414	ug/l	0.54	10,999.51	1.094E-02	Pulse	0.30	3
Se			3	3.022	ug/l	6.10	41.80	3.110E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,538,884.10	2.69	109.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		4,204,185.67	4.09	123.2	Analog	0.10	3
1	Ge		745,876.00	4.77	110.0	Pulse	0.10	3
1	Ge		1,033,018.06	4.42	109.5	Pulse	0.10	3
1	Rh		5,185,745.55	4.24	104.4	Analog	0.10	3
1	In		5,429,280.27	3.97	104.2	Analog	0.10	3
1	Tb		7,662,758.01	3.86	106.6	Analog	0.10	3
1	Ho		7,602,820.72	3.28	105.7	Analog	0.10	3
1	Bi		4,278,341.39	2.82	102.7	Analog	0.10	3
2	Sc		165,605.36	0.66	120.2	Pulse	0.30	3
2	Ge		101,401.61	0.58	108.8	Pulse	0.30	3
2	Ge		152,420.93	0.58	109.2	Pulse	0.30	3
2	Rh		2,726,664.54	0.30	101.5	Analog	0.30	3
2	In		1,005,700.10	0.56	104.4	Pulse	0.30	3
2	Tb		3,937,794.84	0.47	102.3	Analog	0.30	3
2	Ho		4,004,319.70	1.04	103.4	Analog	0.30	3
2	Bi		2,511,385.87	0.83	100.8	Analog	0.30	3
3	Sc		142,119.37	0.82	118.0	Pulse	0.30	3
3	Ge		89,499.79	1.10	109.4	Pulse	0.30	3
3	Ge		134,363.75	1.24	107.3	Pulse	0.30	3
3	Rh		1,544,146.74	0.21	102.4	Analog	0.30	3
3	Tb		2,942,648.77	0.75	101.9	Analog	0.30	3

Quantitation Report

File Name	071SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:18
Sample Name	JD48158-2R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.375	ug/l	2.90	3,915.18	9.353E-04	Pulse	0.25	3
B			1	1.009	ug/l	44.15	12,960.81	3.092E-03	Pulse	0.15	3
Ca			1	25700.148	ug/l	0.26	2,999,442.56	8.340E-01	Analog	0.10	3
Sr			1	123.006	ug/l	0.44	641,816.68	1.334E-01	Pulse	0.10	3
Mo			1	3.357	ug/l	6.73	3,460.52	7.195E-04	Pulse	0.10	3
Ag			1	0.448	ug/l	23.66	1,026.74	2.041E-04	Pulse	0.10	3
Sn			1	21.314	ug/l	2.76	36,132.39	7.175E-03	Pulse	0.10	3
Sb			1	0.194	ug/l	16.33	946.73	1.338E-04	Pulse	0.10	3
Ba			1	364.921	ug/l	1.10	291,443.99	4.122E-02	Pulse	0.10	3
Tl			1	0.805	ug/l	2.90	4,170.74	1.045E-03	Pulse	0.10	3
Pb			1	57.026	ug/l	1.59	98,668.60	2.473E-02	Pulse	0.10	3
Pb			1	54.169	ug/l	1.24	81,746.15	2.049E-02	Pulse	0.10	3
Pb			1	55.229	ug/l	0.74	382,998.22	9.598E-02	Pulse	0.10	3
Na			2	3209.889	ug/l	1.38	419,343.06	2.803E+00	Pulse	0.30	3
Mg			2	22574.880	ug/l	1.83	1,443,201.02	9.646E+00	Analog	0.30	3
Al			2	99273.137	ug/l	0.99	2,092,762.55	1.399E+01	Analog	0.30	3
K			2	8215.144	ug/l	0.53	367,895.10	2.459E+00	Pulse	0.30	3
Ca			2	26183.293	ug/l	1.14	62,214.23	4.158E-01	Pulse	0.30	3
Ti			2	2315.722	ug/l	1.50	39,302.04	2.627E-01	Pulse	0.30	3
V			2	218.804	ug/l	0.76	125,304.66	8.374E-01	Pulse	0.30	3
Cr			2	109.936	ug/l	0.81	79,369.53	5.304E-01	Pulse	0.30	3
Mn			2	1478.366	ug/l	0.66	567,779.75	3.794E+00	Pulse	0.30	3
Fe			2	102976.644	ug/l	1.04	62,572,255.29	4.182E+02	Analog	0.30	3
Co			2	49.638	ug/l	0.83	58,841.51	3.932E-01	Pulse	0.30	3
Ni			2	114.811	ug/l	0.92	37,430.19	2.502E-01	Pulse	0.30	3
Cu			2	97.515	ug/l	0.19	85,793.97	5.733E-01	Pulse	0.30	3
Zn			2	183.250	ug/l	1.62	34,494.06	2.305E-01	Pulse	0.30	3
As			2	9.733	ug/l	4.84	740.69	4.948E-03	Pulse	1.00	3
Cd			2	0.141	ug/l	11.26	39.78	4.106E-05	Pulse	0.30	3
Sn			2	23.278	ug/l	0.49	10,086.65	1.041E-02	Pulse	0.30	3
Se			3	2.315	ug/l	11.07	33.93	2.507E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,189,368.86	4.26	100.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,596,395.78	5.16	105.4	Analog	0.10	3
1	Ge		686,918.67	5.22	101.3	Pulse	0.10	3
1	Ge		948,976.83	5.19	100.5	Pulse	0.10	3
1	Rh		4,813,314.41	5.66	96.9	Analog	0.10	3
1	In		5,040,400.13	5.25	96.7	Analog	0.10	3
1	Tb		7,073,002.60	5.64	98.4	Analog	0.10	3
1	Ho		7,067,989.89	5.13	98.2	Analog	0.10	3
1	Bi		3,991,111.82	5.24	95.8	Analog	0.10	3
2	Sc		149,639.97	1.13	108.6	Pulse	0.30	3
2	Ge		97,192.16	0.81	104.3	Pulse	0.30	3
2	Ge		146,076.09	0.50	104.6	Pulse	0.30	3
2	Rh		2,678,796.70	0.67	99.8	Analog	0.30	3
2	In		968,593.60	0.35	100.5	Pulse	0.30	3
2	Tb		3,826,933.60	0.72	99.5	Analog	0.30	3
2	Ho		3,899,285.68	1.12	100.7	Analog	0.30	3
2	Bi		2,455,613.38	1.29	98.5	Analog	0.30	3
3	Sc		133,870.32	0.26	111.1	Pulse	0.30	3
3	Ge		88,964.71	0.91	108.7	Pulse	0.30	3
3	Ge		135,295.90	0.63	108.0	Pulse	0.30	3
3	Rh		1,543,945.36	0.55	102.4	Analog	0.30	3
3	Tb		2,949,777.18	0.12	102.2	Analog	0.30	3

Quantitation Report

File Name	072SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:22
Sample Name	JD48158-3R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.583	ug/l	3.26	4,235.26	9.906E-04	Pulse	0.25	3
B			1	-0.730	ug/l	-76.16	12,215.81	2.858E-03	Pulse	0.15	3
Ca			1	22714.078	ug/l	0.59	2,744,775.95	7.375E-01	Analog	0.10	3
Sr			1	85.954	ug/l	1.45	459,553.26	9.321E-02	Pulse	0.10	3
Mo			1	4.221	ug/l	7.31	4,430.78	9.018E-04	Pulse	0.10	3
Ag			1	0.589	ug/l	5.70	1,393.45	2.729E-04	Pulse	0.10	3
Sn			1	22.300	ug/l	0.64	38,354.37	7.493E-03	Pulse	0.10	3
Sb			1	0.082	ug/l	118.67	733.38	1.023E-04	Pulse	0.10	3
Ba			1	357.476	ug/l	0.86	291,800.48	4.038E-02	Pulse	0.10	3
Tl			1	1.378	ug/l	7.68	7,088.61	1.748E-03	Pulse	0.10	3
Pb			1	72.587	ug/l	1.38	126,457.77	3.128E-02	Pulse	0.10	3
Pb			1	68.317	ug/l	1.89	103,915.15	2.569E-02	Pulse	0.10	3
Pb			1	70.207	ug/l	1.09	490,319.66	1.212E-01	Pulse	0.10	3
Na			2	2447.164	ug/l	0.76	333,871.17	2.142E+00	Pulse	0.30	3
Mg			2	19658.165	ug/l	0.67	1,309,700.43	8.400E+00	Analog	0.30	3
Al			2	128247.772	ug/l	1.95	2,815,965.10	1.807E+01	Analog	0.30	3
K			2	11909.283	ug/l	0.95	551,685.36	3.539E+00	Pulse	0.30	3
Ca			2	22946.733	ug/l	0.95	56,824.22	3.644E-01	Pulse	0.30	3
Ti			2	3887.263	ug/l	0.97	68,760.04	4.409E-01	Pulse	0.30	3
V			2	238.181	ug/l	1.62	142,069.62	9.115E-01	Pulse	0.30	3
Cr			2	89.455	ug/l	1.48	67,301.33	4.318E-01	Pulse	0.30	3
Mn			2	1619.556	ug/l	0.67	648,072.80	4.157E+00	Pulse	0.30	3
Fe			2	99150.302	ug/l	1.35	62,765,195.28	4.026E+02	Analog	0.30	3
Co			2	45.289	ug/l	0.79	55,950.07	3.588E-01	Pulse	0.30	3
Ni			2	84.943	ug/l	0.77	29,236.02	1.875E-01	Pulse	0.30	3
Cu			2	104.474	ug/l	1.96	95,656.58	6.136E-01	Pulse	0.30	3
Zn			2	229.075	ug/l	2.46	42,437.01	2.722E-01	Pulse	0.30	3
As			2	7.580	ug/l	4.69	603.01	3.870E-03	Pulse	1.00	3
Cd			2	0.219	ug/l	45.75	58.60	5.758E-05	Pulse	0.30	3
Sn			2	23.946	ug/l	1.81	10,831.60	1.072E-02	Pulse	0.30	3
Se			3	2.767	ug/l	8.24	38.20	2.893E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,270,871.10	5.22	102.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,722,445.46	7.07	109.1	Analog	0.10	3
1	Ge		703,835.24	6.89	103.8	Pulse	0.10	3
1	Ge		973,917.12	6.85	103.2	Pulse	0.10	3
1	Rh		4,929,684.51	6.97	99.2	Analog	0.10	3
1	In		5,120,291.98	6.90	98.3	Analog	0.10	3
1	Tb		7,224,722.18	5.35	100.5	Analog	0.10	3
1	Ho		7,209,477.60	5.76	100.2	Analog	0.10	3
1	Bi		4,043,099.94	6.07	97.0	Analog	0.10	3
2	Sc		155,922.45	3.32	113.2	Pulse	0.30	3
2	Ge		100,755.60	3.06	108.1	Pulse	0.30	3
2	Ge		151,640.92	3.06	108.6	Pulse	0.30	3
2	Rh		2,746,589.61	2.97	102.3	Analog	0.30	3
2	In		1,010,637.82	2.92	104.9	Pulse	0.30	3
2	Tb		3,958,600.26	1.96	102.9	Analog	0.30	3
2	Ho		4,023,688.45	1.63	103.9	Analog	0.30	3
2	Bi		2,522,525.25	2.19	101.2	Analog	0.30	3
3	Sc		131,979.40	0.46	109.6	Pulse	0.30	3
3	Ge		87,648.73	0.64	107.1	Pulse	0.30	3
3	Ge		132,092.01	0.69	105.5	Pulse	0.30	3
3	Rh		1,515,490.71	0.60	100.5	Analog	0.30	3
3	Tb		2,871,402.66	1.03	99.5	Analog	0.30	3

Quantitation Report

File Name	073SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:25
Sample Name	JD48158-4R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.016	ug/l	1.33	4,707.39	1.106E-03	Pulse	0.25	3
B			1	-2.058	ug/l	-42.54	11,415.27	2.679E-03	Pulse	0.15	3
Ca			1	25388.850	ug/l	0.71	3,081,903.81	8.239E-01	Analog	0.10	3
Sr			1	112.026	ug/l	0.53	593,877.88	1.215E-01	Pulse	0.10	3
Mo			1	5.550	ug/l	4.96	5,787.92	1.182E-03	Pulse	0.10	3
Ag			1	2.600	ug/l	6.18	6,474.89	1.256E-03	Pulse	0.10	3
Sn			1	25.694	ug/l	1.01	44,152.65	8.586E-03	Pulse	0.10	3
Sb			1	0.171	ug/l	13.32	923.40	1.274E-04	Pulse	0.10	3
Ba			1	446.227	ug/l	0.86	365,484.29	5.040E-02	Pulse	0.10	3
Tl			1	1.391	ug/l	6.73	7,088.63	1.763E-03	Pulse	0.10	3
Pb			1	99.837	ug/l	1.38	171,680.08	4.274E-02	Pulse	0.10	3
Pb			1	95.499	ug/l	0.14	143,242.12	3.567E-02	Pulse	0.10	3
Pb			1	97.269	ug/l	0.88	670,255.41	1.669E-01	Pulse	0.10	3
Na			2	3629.718	ug/l	0.33	495,621.47	3.167E+00	Pulse	0.30	3
Mg			2	25934.648	ug/l	1.00	1,734,379.52	1.108E+01	Analog	0.30	3
Al			2	143056.392	ug/l	0.57	3,154,498.70	2.015E+01	Analog	0.30	3
K			2	11575.506	ug/l	0.46	538,637.11	3.441E+00	Pulse	0.30	3
Ca			2	25257.672	ug/l	0.15	62,780.75	4.011E-01	Pulse	0.30	3
Ti			2	3761.783	ug/l	0.71	66,783.08	4.267E-01	Pulse	0.30	3
V			2	252.532	ug/l	0.47	151,251.66	9.663E-01	Pulse	0.30	3
Cr			2	107.452	ug/l	2.07	81,150.00	5.185E-01	Pulse	0.30	3
Mn			2	1995.641	ug/l	0.15	801,660.18	5.122E+00	Pulse	0.30	3
Fe			2	110659.938	ug/l	0.72	70,332,841.65	4.494E+02	Analog	0.30	3
Co			2	55.090	ug/l	0.15	68,304.66	4.364E-01	Pulse	0.30	3
Ni			2	129.467	ug/l	1.67	43,961.93	2.809E-01	Pulse	0.30	3
Cu			2	129.508	ug/l	0.67	118,696.94	7.584E-01	Pulse	0.30	3
Zn			2	287.167	ug/l	1.30	50,871.91	3.250E-01	Pulse	0.30	3
As			2	8.166	ug/l	1.19	651.68	4.164E-03	Pulse	1.00	3
Cd			2	0.580	ug/l	21.05	134.06	1.336E-04	Pulse	0.30	3
Sn			2	26.544	ug/l	0.70	11,967.98	1.192E-02	Pulse	0.30	3
Se			3	2.505	ug/l	6.50	35.00	2.669E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,256,281.15	4.54	102.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,740,393.17	5.12	109.6	Analog	0.10	3
1	Ge		706,168.32	5.61	104.1	Pulse	0.10	3
1	Ge		974,567.04	5.50	103.3	Pulse	0.10	3
1	Rh		4,888,493.37	5.29	98.4	Analog	0.10	3
1	In		5,143,899.06	5.72	98.7	Analog	0.10	3
1	Tb		7,250,664.89	5.00	100.8	Analog	0.10	3
1	Ho		7,171,576.77	4.24	99.7	Analog	0.10	3
1	Bi		4,015,280.98	4.74	96.3	Analog	0.10	3
2	Sc		156,519.92	0.28	113.6	Pulse	0.30	3
2	Ge		101,703.39	0.31	109.2	Pulse	0.30	3
2	Ge		151,318.00	0.55	108.4	Pulse	0.30	3
2	Rh		2,765,732.18	0.82	103.0	Analog	0.30	3
2	In		1,004,074.94	0.45	104.2	Pulse	0.30	3
2	Tb		3,965,247.07	0.18	103.1	Analog	0.30	3
2	Ho		4,024,571.93	0.48	103.9	Analog	0.30	3
2	Bi		2,505,324.76	0.44	100.5	Analog	0.30	3
3	Sc		131,783.58	0.97	109.4	Pulse	0.30	3
3	Ge		87,101.32	1.33	106.5	Pulse	0.30	3
3	Ge		131,143.32	1.41	104.7	Pulse	0.30	3
3	Rh		1,519,091.02	1.02	100.7	Analog	0.30	3
3	Tb		2,883,079.12	0.85	99.9	Analog	0.30	3

Quantitation Report

File Name	074_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:28
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.199	ug/l	1.75	280,206.94	6.708E-02	Pulse	0.25	3
B			1	84.488	ug/l	12.10	250,386.33	5.977E-02	Pulse	0.15	3
Ca			1	5226.631	ug/l	0.26	2,988,776.62	8.480E-01	Analog	0.10	3
Sr			1	52.717	ug/l	0.27	1,388,891.75	2.857E-01	Analog	0.10	3
Mo			1	51.701	ug/l	1.58	265,189.12	5.454E-02	Pulse	0.10	3
Ag			1	53.045	ug/l	0.88	656,396.65	1.296E-01	Pulse	0.10	3
Sn			1	50.569	ug/l	0.51	414,041.15	8.179E-02	Pulse	0.10	3
Sb			1	53.070	ug/l	2.46	525,637.68	7.417E-02	Pulse	0.10	3
Ba			1	50.986	ug/l	0.69	203,895.66	2.880E-02	Pulse	0.10	3
Tl			1	51.242	ug/l	1.04	1,250,757.48	3.142E-01	Mix	0.10	3
Pb			1	51.014	ug/l	1.15	430,104.25	1.080E-01	Pulse	0.10	3
Pb			1	50.770	ug/l	0.50	373,537.34	9.385E-02	Pulse	0.10	3
Pb			1	51.097	ug/l	0.43	1,726,184.36	4.337E-01	Pulse	0.10	3
Na			2	5204.688	ug/l	0.41	3,384,527.44	2.258E+01	Analog	0.30	3
Mg			2	5222.640	ug/l	0.84	1,672,651.91	1.116E+01	Analog	0.30	3
Al			2	5173.921	ug/l	0.67	546,700.03	3.646E+00	Pulse	0.30	3
K			2	5196.829	ug/l	0.63	1,147,709.08	7.655E+00	Pulse	0.30	3
Ca			2	5337.401	ug/l	0.78	63,533.62	4.238E-01	Pulse	0.30	3
Ti			2	54.353	ug/l	2.85	4,625.15	3.085E-02	Pulse	0.30	3
V			2	51.996	ug/l	0.99	149,145.57	9.948E-01	Pulse	0.30	3
Cr			2	51.351	ug/l	0.10	185,558.98	1.238E+00	Pulse	0.30	3
Mn			2	51.135	ug/l	0.85	98,516.10	6.571E-01	Pulse	0.30	3
Fe			2	5233.673	ug/l	0.40	15,958,305.48	1.064E+02	Analog	0.30	3
Co			2	50.845	ug/l	0.34	301,803.01	2.013E+00	Pulse	0.30	3
Ni			2	50.475	ug/l	0.33	80,740.62	5.386E-01	Pulse	0.30	3
Cu			2	50.380	ug/l	1.11	219,815.25	1.466E+00	Pulse	0.30	3
Zn			2	48.159	ug/l	1.77	42,403.50	2.829E-01	Pulse	0.30	3
As			2	51.474	ug/l	0.78	19,332.41	1.289E-01	Pulse	1.00	3
Cd			2	50.660	ug/l	2.46	53,728.08	5.334E-02	Pulse	0.30	3
Sn			2	50.727	ug/l	1.01	117,473.60	1.166E-01	Pulse	0.30	3
Se			3	204.416	ug/l	1.59	11,703.64	8.718E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,175,616.28	4.23	100.4	Analog	0.10	3
1	Sc		3,524,447.03	4.75	103.3	Analog	0.10	3
1	Ge		695,164.40	6.10	102.5	Pulse	0.10	3

Quantitation Report

1	Ge		967,491.52	6.54	102.5	Pulse	0.10	3
1	Rh		4,861,433.89	5.97	97.8	Analog	0.10	3
1	In		5,061,765.09	5.36	97.1	Analog	0.10	3
1	Tb		7,081,280.93	4.62	98.5	Analog	0.10	3
1	Ho		7,063,727.81	5.23	98.2	Analog	0.10	3
1	Bi		3,979,628.07	5.16	95.5	Analog	0.10	3
2	Sc		149,924.57	0.82	108.8	Pulse	0.30	3
2	Ge		99,844.26	0.42	107.2	Pulse	0.30	3
2	Ge		151,253.64	1.52	108.3	Pulse	0.30	3
2	Rh		2,735,574.54	1.48	101.9	Analog	0.30	3
2	In		1,007,172.33	1.02	104.5	Pulse	0.30	3
2	Tb		3,924,271.79	0.81	102.0	Analog	0.30	3
2	Ho		4,037,042.62	0.87	104.3	Analog	0.30	3
2	Bi		2,500,149.90	0.45	100.3	Analog	0.30	3
3	Sc		129,063.77	0.46	107.2	Pulse	0.30	3
3	Ge		87,990.53	0.57	107.6	Pulse	0.30	3
3	Ge		134,253.04	0.53	107.2	Pulse	0.30	3
3	Rh		1,547,206.92	1.03	102.6	Analog	0.30	3
3	Tb		2,932,613.08	0.92	101.6	Analog	0.30	3

Quantitation Report

File Name	075BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:32
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.156	ug/l	132.33	981.42	2.425E-04	Pulse	0.25	3
B			1	8.650	ug/l	26.59	36,517.78	8.774E-03	Pulse	0.15	3
Ca			1	5.188	ug/l	444.76	15,231.58	4.545E-03	Pulse	0.10	3
Sr			1	0.154	ug/l	141.37	4,295.03	9.143E-04	Pulse	0.10	3
Mo			1	0.347	ug/l	99.43	1,796.92	3.773E-04	Pulse	0.10	3
Ag			1	0.272	ug/l	124.30	3,207.57	6.507E-04	Pulse	0.10	3
Sn			1	0.770	ug/l	56.26	7,872.51	1.548E-03	Pulse	0.10	3
Sb			1	0.285	ug/l	100.98	3,270.65	4.773E-04	Pulse	0.10	3
Ba			1	0.129	ug/l	137.11	506.71	7.531E-05	Pulse	0.10	3
Tl			1	0.262	ug/l	105.20	6,482.96	1.667E-03	Pulse	0.10	3
Pb			1	0.146	ug/l	112.28	4,204.17	1.052E-03	Pulse	0.10	3
Pb			1	0.199	ug/l	114.15	3,800.71	9.553E-04	Pulse	0.10	3
Pb			1	0.170	ug/l	123.79	17,041.68	4.279E-03	Pulse	0.10	3
Na			2	0.638	ug/l	56.80	3,487.08	2.336E-02	Pulse	0.30	3
Mg			2	0.582	ug/l	39.74	721.14	4.836E-03	Pulse	0.30	3
Al			2	0.208	ug/l	40.85	358.90	2.406E-03	Pulse	0.30	3
K			2	2.273	ug/l	44.79	8,876.89	5.950E-02	Pulse	0.30	3
Ca			2	1.822	ug/l	14.61	58.89	3.945E-04	Pulse	0.30	3
Ti			2	0.323	ug/l	23.92	32.22	2.156E-04	Pulse	0.30	3
V			2	-0.009	ug/l	-104.97	134.45	9.010E-04	Pulse	0.30	3
Cr			2	0.006	ug/l	128.06	150.00	1.007E-03	Pulse	0.30	3
Mn			2	0.026	ug/l	57.40	210.00	1.407E-03	Pulse	0.30	3
Fe			2	6.770	ug/l	19.35	56,140.86	3.761E-01	Pulse	0.30	3
Co			2	-0.001	ug/l	-204.93	29.85	2.004E-04	Pulse	0.30	3
Ni			2	-0.172	ug/l	-26.98	1,141.17	7.651E-03	Pulse	0.30	3
Cu			2	-0.070	ug/l	-23.04	1,097.83	7.354E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.734	ug/l	-16.66	9,039.25	6.058E-02	Pulse	0.30	3
As			2	0.062	ug/l	21.79	34.33	2.301E-04	Pulse	1.00	3
Cd			2	0.010	ug/l	49.94	22.20	2.181E-05	Pulse	0.30	3
Sn			2	0.644	ug/l	3.15	1,185.61	1.163E-03	Pulse	0.30	3
Se			3	0.254	ug/l	6.59	21.80	1.616E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,187,338.52	5.11	100.7	Analog	0.10	3
1	Sc		3,464,240.78	6.40	101.5	Analog	0.10	3
1	Ge		694,080.45	6.71	102.3	Pulse	0.10	3
1	Ge		969,006.19	6.71	102.7	Pulse	0.10	3
1	Rh		4,976,545.34	6.89	100.2	Analog	0.10	3
1	In		5,180,002.02	6.16	99.4	Analog	0.10	3
1	Tb		7,093,990.73	6.28	98.7	Analog	0.10	3
1	Ho		7,069,775.31	5.94	98.3	Analog	0.10	3
1	Bi		4,047,468.27	6.06	97.1	Analog	0.10	3
2	Sc		149,213.88	1.14	108.3	Pulse	0.30	3
2	Ge		99,434.16	0.28	106.7	Pulse	0.30	3
2	Ge		151,419.38	0.53	108.5	Pulse	0.30	3
2	Rh		2,838,458.36	0.52	105.7	Analog	0.30	3
2	In		1,018,887.80	1.31	105.7	Pulse	0.30	3
2	Tb		3,987,781.93	1.42	103.6	Analog	0.30	3
2	Ho		4,037,855.53	1.00	104.3	Analog	0.30	3
2	Bi		2,552,746.91	1.20	102.4	Analog	0.30	3
3	Sc		129,127.75	0.13	107.2	Pulse	0.30	3
3	Ge		88,891.00	0.51	108.7	Pulse	0.30	3
3	Ge		134,882.18	0.31	107.7	Pulse	0.30	3
3	Rh		1,613,359.07	1.00	107.0	Analog	0.30	3
3	Tb		2,966,885.23	0.80	102.8	Analog	0.30	3

Quantitation Report

File Name	076SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:35
Sample Name	JD49400-1
Sample Type	Sample
Comment	
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.706	ug/l	3.03	378.68	8.083E-05	Pulse	0.25	3
B			1	-15.390	ug/l	-28.45	11,421.91	2.439E-03	Pulse	0.15	3
Ca			1	97252.584	ug/l	5.80	2,871,970.79	7.892E-01	Analog	0.10	3
Sr			1	71.342	ug/l	1.46	105,286.50	1.941E-02	Pulse	0.10	3
Mo			1	2.600	ug/l	2.53	806.73	1.486E-04	Pulse	0.10	3
Ag			1	0.427	ug/l	42.06	210.02	3.730E-05	Pulse	0.10	3
Sn			1	10.391	ug/l	8.81	6,534.95	1.144E-03	Pulse	0.10	3
Sb			1	-0.035	ug/l	-577.29	603.37	7.711E-05	Pulse	0.10	3
Ba			1	228.725	ug/l	1.77	50,733.64	6.461E-03	Pulse	0.10	3
Tl			1	0.212	ug/l	33.32	553.37	1.232E-04	Pulse	0.10	3
Pb			1	31.305	ug/l	0.82	18,188.51	4.037E-03	Pulse	0.10	3
Pb			1	29.613	ug/l	4.08	14,904.68	3.310E-03	Pulse	0.10	3
Pb			1	30.086	ug/l	0.94	69,976.81	1.553E-02	Pulse	0.10	3
Na			2	263.246	ug/l	4.47	11,982.14	7.763E-02	Pulse	0.30	3
Mg			2	25715.252	ug/l	0.98	424,434.18	2.749E+00	Pulse	0.30	3
Al			2	23908.207	ug/l	0.56	130,322.24	8.442E-01	Pulse	0.30	3
K			2	2849.642	ug/l	2.10	40,838.66	2.645E-01	Pulse	0.30	3
Ca			2	94504.208	ug/l	1.64	57,922.34	3.752E-01	Pulse	0.30	3
Ti			2	159.277	ug/l	2.73	702.24	4.548E-03	Pulse	0.30	3
V			2	231.451	ug/l	1.87	34,307.72	2.222E-01	Pulse	0.30	3
Cr			2	27.422	ug/l	0.91	5,230.90	3.389E-02	Pulse	0.30	3
Mn			2	705.072	ug/l	0.73	69,988.01	4.534E-01	Pulse	0.30	3
Fe			2	37020.961	ug/l	0.97	5,835,645.74	3.780E+01	Analog	0.30	3
Co			2	16.098	ug/l	1.58	4,953.95	3.209E-02	Pulse	0.30	3
Ni			2	113.202	ug/l	1.87	10,619.08	6.878E-02	Pulse	0.30	3
Cu			2	48.859	ug/l	4.42	12,352.55	8.003E-02	Pulse	0.30	3
Zn			2	741.642	ug/l	2.36	35,889.28	2.325E-01	Pulse	0.30	3
As			2	70.510	ug/l	2.28	1,374.06	8.901E-03	Pulse	1.00	3
Cd			2	0.115	ug/l	107.28	18.84	1.754E-05	Pulse	0.30	3
Sn			2	16.772	ug/l	4.25	1,732.34	1.612E-03	Pulse	0.30	3
Se			3	1.322	ug/l	10.10	11.53	8.157E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,686,418.65	3.17	112.7	Analog	0.10	3
1	Sc		3,652,651.82	9.56	107.1	Analog	0.10	3
1	Ge		761,406.55	4.16	112.3	Pulse	0.10	3

Quantitation Report

1	Ge		1,061,951.03	4.68	112.5	Pulse	0.10	3
1	Rh		5,426,663.36	3.99	109.2	Analog	0.10	3
1	In		5,722,408.86	4.44	109.8	Analog	0.10	3
1	Tb		7,853,101.76	3.51	109.2	Analog	0.10	3
1	Ho		7,803,796.97	3.44	108.5	Analog	0.10	3
1	Bi		4,506,009.62	3.82	108.1	Analog	0.10	3
2	Sc		154,376.92	1.05	112.0	Pulse	0.30	3
2	Ge		106,709.65	1.05	114.5	Pulse	0.30	3
2	Ge		161,390.14	0.69	115.6	Pulse	0.30	3
2	Rh		2,981,416.62	1.26	111.0	Analog	0.30	3
2	In		1,074,325.99	0.54	111.5	Pulse	0.30	3
2	Tb		4,212,056.22	0.21	109.5	Analog	0.30	3
2	Ho		4,294,475.52	1.25	110.9	Analog	0.30	3
2	Bi		2,780,872.95	0.47	111.6	Analog	0.30	3
3	Sc		131,941.52	1.56	109.5	Pulse	0.30	3
3	Ge		93,170.17	0.37	113.9	Pulse	0.30	3
3	Ge		141,387.80	0.81	112.9	Pulse	0.30	3
3	Rh		1,677,220.87	1.29	111.2	Analog	0.30	3
3	Tb		3,115,201.68	0.42	107.9	Analog	0.30	3

Quantitation Report

File Name	077SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:38
Sample Name	JD49193-1
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.821	ug/l	10.43	2,470.89	5.440E-04	Pulse	0.25	3
B			1	15.248	ug/l	28.63	18,081.27	3.982E-03	Pulse	0.15	3
Ca			1	53350.821	ug/l	1.18	3,364,090.47	8.655E-01	Analog	0.10	3
Sr			1	152.499	ug/l	1.11	432,105.49	8.270E-02	Pulse	0.10	3
Mo			1	4.746	ug/l	1.32	2,673.66	5.120E-04	Pulse	0.10	3
Ag			1	2.181	ug/l	19.23	2,830.36	5.183E-04	Pulse	0.10	3
Sn			1	16.612	ug/l	1.19	16,215.58	2.983E-03	Pulse	0.10	3
Sb			1	0.105	ug/l	149.31	706.71	9.414E-05	Pulse	0.10	3
Ba			1	1894.228	ug/l	2.46	806,607.28	1.070E-01	Pulse	0.10	3
Tl			1	0.939	ug/l	6.57	2,720.37	6.337E-04	Pulse	0.10	3
Pb			1	736.341	ug/l	1.27	667,350.59	1.556E-01	Pulse	0.10	3
Pb			1	703.135	ug/l	1.52	556,449.87	1.297E-01	Pulse	0.10	3
Pb			1	732.179	ug/l	1.18	2,659,636.74	6.202E-01	Analog	0.10	3
Na			2	827.960	ug/l	0.37	60,577.54	3.794E-01	Pulse	0.30	3
Mg			2	40841.380	ug/l	0.67	1,393,134.50	8.726E+00	Analog	0.30	3
Al			2	77905.951	ug/l	0.77	876,396.15	5.489E+00	Pulse	0.30	3
K			2	18869.061	ug/l	0.58	449,552.27	2.815E+00	Pulse	0.30	3
Ca			2	55292.133	ug/l	0.79	70,090.70	4.390E-01	Pulse	0.30	3
Ti			2	1070.501	ug/l	4.67	9,690.73	6.074E-02	Pulse	0.30	3
V			2	142.236	ug/l	0.51	43,576.12	2.729E-01	Pulse	0.30	3
Cr			2	142.576	ug/l	0.86	54,964.01	3.443E-01	Pulse	0.30	3
Mn			2	2391.905	ug/l	1.02	490,145.64	3.070E+00	Pulse	0.30	3
Fe			2	103116.626	ug/l	0.91	33,445,375.34	2.095E+02	Analog	0.30	3
Co			2	42.574	ug/l	1.04	26,943.05	1.688E-01	Pulse	0.30	3
Ni			2	92.414	ug/l	1.92	16,974.42	1.063E-01	Pulse	0.30	3
Cu			2	335.922	ug/l	0.46	156,597.48	9.807E-01	Pulse	0.30	3
Zn			2	1357.720	ug/l	0.92	108,763.85	6.812E-01	Pulse	0.30	3
As			2	49.932	ug/l	6.19	2,009.80	1.258E-02	Pulse	1.00	3
Cd			2	9.102	ug/l	7.27	1,023.21	9.696E-04	Pulse	0.30	3
Sn			2	20.770	ug/l	0.37	4,717.43	4.468E-03	Pulse	0.30	3
Se			3	4.192	ug/l	7.87	31.27	2.321E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,536,397.55	2.10	109.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,887,860.88	5.36	114.0	Analog	0.10	3
1	Ge		743,101.81	4.42	109.6	Pulse	0.10	3
1	Ge		1,030,891.44	4.81	109.2	Pulse	0.10	3
1	Rh		5,224,410.13	4.64	105.2	Analog	0.10	3
1	In		5,436,525.22	3.66	104.3	Analog	0.10	3
1	Tb		7,535,672.59	3.75	104.8	Analog	0.10	3
1	Ho		7,563,185.72	3.47	105.1	Analog	0.10	3
1	Bi		4,287,275.67	3.81	102.9	Analog	0.10	3
2	Sc		159,672.57	2.50	115.9	Pulse	0.30	3
2	Ge		105,087.99	2.86	112.8	Pulse	0.30	3
2	Ge		159,142.59	2.88	114.0	Pulse	0.30	3
2	Rh		2,862,296.20	1.55	106.6	Analog	0.30	3
2	In		1,055,945.79	2.30	109.6	Pulse	0.30	3
2	Tb		4,114,400.25	1.38	106.9	Analog	0.30	3
2	Ho		4,208,344.97	1.30	108.7	Analog	0.30	3
2	Bi		2,660,490.45	2.58	106.8	Analog	0.30	3
3	Sc		131,336.98	1.69	109.0	Pulse	0.30	3
3	Ge		89,179.18	0.57	109.0	Pulse	0.30	3
3	Ge		134,789.77	1.44	107.6	Pulse	0.30	3
3	Rh		1,560,541.85	1.65	103.5	Analog	0.30	3
3	Tb		2,973,971.48	1.59	103.0	Analog	0.30	3

Quantitation Report

File Name	078SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:42
Sample Name	JD49193-2
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.254	ug/l	5.62	2,164.18	4.683E-04	Pulse	0.25	3
B			1	12.222	ug/l	14.66	17,453.82	3.778E-03	Pulse	0.15	3
Ca			1	51197.836	ug/l	0.22	3,154,810.26	8.307E-01	Analog	0.10	3
Sr			1	144.838	ug/l	0.56	408,217.95	7.855E-02	Pulse	0.10	3
Mo			1	7.724	ug/l	8.25	4,284.08	8.260E-04	Pulse	0.10	3
Ag			1	2.476	ug/l	3.04	3,203.78	5.903E-04	Pulse	0.10	3
Sn			1	13.404	ug/l	8.47	13,356.83	2.466E-03	Pulse	0.10	3
Sb			1	0.156	ug/l	45.21	760.05	1.013E-04	Pulse	0.10	3
Ba			1	1968.418	ug/l	1.25	836,047.18	1.112E-01	Pulse	0.10	3
Tl			1	0.696	ug/l	6.52	2,096.91	4.851E-04	Pulse	0.10	3
Pb			1	747.980	ug/l	1.80	683,826.82	1.581E-01	Pulse	0.10	3
Pb			1	721.522	ug/l	0.42	575,834.69	1.331E-01	Pulse	0.10	3
Pb			1	740.966	ug/l	0.95	2,715,105.14	6.276E-01	Analog	0.10	3
Na			2	980.900	ug/l	0.71	67,907.72	4.457E-01	Pulse	0.30	3
Mg			2	35919.437	ug/l	2.39	1,169,567.31	7.675E+00	Mix	0.30	3
Al			2	60483.553	ug/l	0.51	649,467.98	4.262E+00	Pulse	0.30	3
K			2	14841.272	ug/l	0.89	339,231.79	2.226E+00	Pulse	0.30	3
Ca			2	53019.314	ug/l	1.14	64,139.28	4.210E-01	Pulse	0.30	3
Ti			2	1016.122	ug/l	0.54	8,786.88	5.765E-02	Pulse	0.30	3
V			2	136.048	ug/l	0.93	39,779.85	2.611E-01	Pulse	0.30	3
Cr			2	194.540	ug/l	0.99	71,546.82	4.694E-01	Pulse	0.30	3
Mn			2	2032.009	ug/l	0.31	397,443.70	2.608E+00	Pulse	0.30	3
Fe			2	90640.747	ug/l	1.24	28,061,399.44	1.842E+02	Analog	0.30	3
Co			2	37.828	ug/l	1.94	22,858.07	1.500E-01	Pulse	0.30	3
Ni			2	91.157	ug/l	2.35	16,006.80	1.050E-01	Pulse	0.30	3
Cu			2	315.786	ug/l	1.49	140,577.14	9.225E-01	Pulse	0.30	3
Zn			2	2014.991	ug/l	0.84	149,317.12	9.800E-01	Pulse	0.30	3
As			2	37.334	ug/l	4.36	1,436.07	9.422E-03	Pulse	1.00	3
Cd			2	5.801	ug/l	7.59	637.53	6.221E-04	Pulse	0.30	3
Sn			2	17.085	ug/l	6.90	3,698.28	3.618E-03	Pulse	0.30	3
Se			3	2.707	ug/l	13.10	22.73	1.688E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,617,832.15	3.07	111.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,797,787.23	3.47	111.3	Analog	0.10	3
1	Ge		737,867.36	4.25	108.8	Pulse	0.10	3
1	Ge		1,031,231.86	4.23	109.3	Pulse	0.10	3
1	Rh		5,196,650.65	4.59	104.6	Analog	0.10	3
1	In		5,424,010.98	4.06	104.1	Analog	0.10	3
1	Tb		7,519,644.26	3.80	104.6	Analog	0.10	3
1	Ho		7,503,467.81	3.29	104.3	Analog	0.10	3
1	Bi		4,325,641.81	3.56	103.8	Analog	0.10	3
2	Sc		152,390.82	2.82	110.6	Pulse	0.30	3
2	Ge		101,426.50	2.52	108.9	Pulse	0.30	3
2	Ge		154,998.49	3.10	111.0	Pulse	0.30	3
2	Rh		2,773,502.74	1.66	103.3	Analog	0.30	3
2	In		1,023,449.85	2.88	106.2	Pulse	0.30	3
2	Tb		3,995,289.01	2.18	103.8	Analog	0.30	3
2	Ho		4,088,645.95	2.10	105.6	Analog	0.30	3
2	Bi		2,580,641.49	2.56	103.5	Analog	0.30	3
3	Sc		129,171.66	1.63	107.2	Pulse	0.30	3
3	Ge		88,629.76	1.73	108.3	Pulse	0.30	3
3	Ge		134,769.36	2.05	107.6	Pulse	0.30	3
3	Rh		1,548,547.27	0.50	102.7	Analog	0.30	3
3	Tb		2,914,453.28	1.60	101.0	Analog	0.30	3

Quantitation Report

File Name	079SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:45
Sample Name	JD49193-3
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.147	ug/l	3.64	2,109.49	4.540E-04	Pulse	0.25	3
B			1	20.549	ug/l	18.87	20,196.85	4.338E-03	Pulse	0.15	3
Ca			1	51620.044	ug/l	1.78	3,237,965.58	8.375E-01	Analog	0.10	3
Sr			1	152.190	ug/l	0.71	434,973.56	8.253E-02	Pulse	0.10	3
Mo			1	9.843	ug/l	4.11	5,524.48	1.050E-03	Pulse	0.10	3
Ag			1	2.829	ug/l	9.55	3,717.24	6.767E-04	Pulse	0.10	3
Sn			1	42.439	ug/l	1.62	39,326.74	7.145E-03	Pulse	0.10	3
Sb			1	4.578	ug/l	5.46	5,504.52	7.188E-04	Pulse	0.10	3
Ba			1	2029.528	ug/l	0.87	877,213.22	1.146E-01	Pulse	0.10	3
Tl			1	0.724	ug/l	15.10	2,186.91	5.017E-04	Pulse	0.10	3
Pb			1	775.593	ug/l	1.99	716,919.55	1.639E-01	Pulse	0.10	3
Pb			1	746.267	ug/l	1.99	602,283.90	1.377E-01	Pulse	0.10	3
Pb			1	766.878	ug/l	1.42	2,840,776.34	6.495E-01	Analog	0.10	3
Na			2	1070.809	ug/l	7.42	76,363.92	4.846E-01	Pulse	0.30	3
Mg			2	36442.761	ug/l	0.82	1,226,971.52	7.786E+00	Analog	0.30	3
Al			2	61953.595	ug/l	0.19	687,940.08	4.366E+00	Pulse	0.30	3
K			2	15507.674	ug/l	0.50	366,162.84	2.324E+00	Pulse	0.30	3
Ca			2	52756.986	ug/l	0.37	66,006.51	4.189E-01	Pulse	0.30	3
Ti			2	1847.281	ug/l	4.82	16,509.72	1.048E-01	Pulse	0.30	3
V			2	169.067	ug/l	1.82	51,083.95	3.242E-01	Pulse	0.30	3
Cr			2	213.269	ug/l	1.08	81,076.64	5.145E-01	Pulse	0.30	3
Mn			2	2058.956	ug/l	0.26	416,418.04	2.643E+00	Pulse	0.30	3
Fe			2	107187.834	ug/l	0.26	34,312,725.30	2.178E+02	Analog	0.30	3
Co			2	40.091	ug/l	1.04	25,044.38	1.589E-01	Pulse	0.30	3
Ni			2	93.374	ug/l	2.36	16,912.13	1.073E-01	Pulse	0.30	3
Cu			2	299.941	ug/l	0.45	138,145.60	8.767E-01	Pulse	0.30	3
Zn			2	2009.494	ug/l	0.11	154,022.65	9.775E-01	Pulse	0.30	3
As			2	40.865	ug/l	4.60	1,623.75	1.031E-02	Pulse	1.00	3
Cd			2	5.655	ug/l	2.50	642.99	6.067E-04	Pulse	0.30	3
Sn			2	45.331	ug/l	0.44	10,738.22	1.013E-02	Pulse	0.30	3
Se			3	2.876	ug/l	16.50	22.60	1.760E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,649,574.80	3.20	111.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,864,611.09	3.78	113.3	Analog	0.10	3
1	Ge		750,320.46	4.58	110.6	Pulse	0.10	3
1	Ge		1,045,809.33	4.94	110.8	Pulse	0.10	3
1	Rh		5,269,514.19	4.15	106.1	Analog	0.10	3
1	In		5,505,169.85	3.49	105.6	Analog	0.10	3
1	Tb		7,651,731.97	4.65	106.4	Analog	0.10	3
1	Ho		7,632,362.59	4.22	106.1	Analog	0.10	3
1	Bi		4,373,038.58	3.73	104.9	Analog	0.10	3
2	Sc		157,575.96	0.47	114.4	Pulse	0.30	3
2	Ge		104,659.83	0.06	112.3	Pulse	0.30	3
2	Ge		158,195.22	0.47	113.3	Pulse	0.30	3
2	Rh		2,864,671.27	1.30	106.7	Analog	0.30	3
2	In		1,059,957.16	0.91	110.0	Pulse	0.30	3
2	Tb		4,116,980.53	0.19	107.0	Analog	0.30	3
2	Ho		4,165,749.69	0.33	107.6	Analog	0.30	3
2	Bi		2,661,158.30	0.62	106.8	Analog	0.30	3
3	Sc		123,883.06	1.21	102.9	Pulse	0.30	3
3	Ge		85,455.15	0.46	104.5	Pulse	0.30	3
3	Ge		128,558.75	1.37	102.7	Pulse	0.30	3
3	Rh		1,503,614.04	2.17	99.7	Analog	0.30	3
3	Tb		2,822,490.58	1.39	97.8	Analog	0.30	3

Quantitation Report

File Name	080SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:49
Sample Name	JD49193-4
Sample Type	Sample
Comment	
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.466	ug/l	2.12	1,554.76	3.319E-04	Pulse	0.25	3
B			1	4.720	ug/l	38.46	14,595.49	3.115E-03	Pulse	0.15	3
Ca			1	55744.968	ug/l	2.30	1,718,464.14	4.539E-01	Analog	0.10	3
Sr			1	198.664	ug/l	1.47	289,405.18	5.390E-02	Pulse	0.10	3
Mo			1	7.330	ug/l	9.33	2,133.56	3.980E-04	Pulse	0.10	3
Ag			1	2.969	ug/l	8.34	1,946.85	3.480E-04	Pulse	0.10	3
Sn			1	48.594	ug/l	2.97	23,655.24	4.222E-03	Pulse	0.10	3
Sb			1	5.887	ug/l	5.63	3,807.27	4.905E-04	Pulse	0.10	3
Ba			1	2030.838	ug/l	1.10	445,290.68	5.735E-02	Pulse	0.10	3
Tl			1	1.103	ug/l	20.43	1,753.52	3.962E-04	Pulse	0.10	3
Pb			1	1466.063	ug/l	1.92	688,430.07	1.549E-01	Pulse	0.10	3
Pb			1	1418.350	ug/l	2.09	581,483.51	1.309E-01	Pulse	0.10	3
Pb			1	1455.232	ug/l	1.88	2,739,128.66	6.164E-01	Analog	0.10	3
Na			2	1046.704	ug/l	1.11	39,353.51	2.474E-01	Pulse	0.30	3
Mg			2	33089.593	ug/l	0.79	562,606.02	3.537E+00	Pulse	0.30	3
Al			2	68533.511	ug/l	0.44	384,259.54	2.416E+00	Pulse	0.30	3
K			2	17960.487	ug/l	0.67	217,809.02	1.369E+00	Pulse	0.30	3
Ca			2	54187.862	ug/l	1.77	34,239.74	2.152E-01	Pulse	0.30	3
Ti			2	2128.869	ug/l	3.92	9,606.42	6.039E-02	Pulse	0.30	3
V			2	183.894	ug/l	1.94	28,119.48	1.768E-01	Pulse	0.30	3
Cr			2	141.830	ug/l	1.24	27,304.87	1.717E-01	Pulse	0.30	3
Mn			2	2332.168	ug/l	0.80	238,141.20	1.497E+00	Pulse	0.30	3
Fe			2	106322.433	ug/l	0.48	17,196,577.65	1.081E+02	Analog	0.30	3
Co			2	41.184	ug/l	1.05	13,001.07	8.174E-02	Pulse	0.30	3
Ni			2	90.095	ug/l	1.05	9,014.78	5.667E-02	Pulse	0.30	3
Cu			2	399.220	ug/l	0.96	93,304.53	5.866E-01	Pulse	0.30	3
Zn			2	1982.118	ug/l	0.62	81,827.94	5.145E-01	Pulse	0.30	3
As			2	55.319	ug/l	1.63	1,113.37	7.000E-03	Pulse	1.00	3
Cd			2	6.287	ug/l	10.96	369.89	3.424E-04	Pulse	0.30	3
Sn			2	52.144	ug/l	3.07	6,141.27	5.690E-03	Pulse	0.30	3
Se			3	3.040	ug/l	27.97	15.87	1.182E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,683,630.67	3.14	112.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,788,038.49	5.00	111.0	Analog	0.10	3
1	Ge		759,770.28	4.53	112.0	Pulse	0.10	3
1	Ge		1,057,087.20	4.41	112.0	Pulse	0.10	3
1	Rh		5,371,244.61	3.84	108.1	Analog	0.10	3
1	In		5,606,937.78	4.07	107.6	Analog	0.10	3
1	Tb		7,767,458.63	4.31	108.0	Analog	0.10	3
1	Ho		7,730,837.39	4.32	107.4	Analog	0.10	3
1	Bi		4,446,813.89	5.04	106.7	Analog	0.10	3
2	Sc		159,061.28	1.29	115.4	Pulse	0.30	3
2	Ge		107,524.85	1.63	115.4	Pulse	0.30	3
2	Ge		162,584.01	1.70	116.5	Pulse	0.30	3
2	Rh		2,940,362.87	0.66	109.5	Analog	0.30	3
2	In		1,079,587.73	1.48	112.0	Pulse	0.30	3
2	Tb		4,186,211.92	0.95	108.8	Analog	0.30	3
2	Ho		4,255,733.30	0.99	109.9	Analog	0.30	3
2	Bi		2,729,960.31	1.11	109.5	Analog	0.30	3
3	Sc		127,207.44	1.18	105.6	Pulse	0.30	3
3	Ge		89,300.64	0.21	109.2	Pulse	0.30	3
3	Ge		134,275.52	0.65	107.2	Pulse	0.30	3
3	Rh		1,572,834.49	0.58	104.3	Analog	0.30	3
3	Tb		2,974,181.82	1.95	103.0	Analog	0.30	3

Quantitation Report

File Name	081SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:52
Sample Name	JD49193-6
Sample Type	Sample
Comment	
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.807	ug/l	6.26	1,638.77	3.547E-04	Pulse	0.25	3
B			1	-7.011	ug/l	-60.71	12,564.98	2.721E-03	Pulse	0.15	3
Ca			1	65654.893	ug/l	0.84	2,014,897.62	5.340E-01	Analog	0.10	3
Sr			1	180.446	ug/l	1.29	258,414.65	4.896E-02	Pulse	0.10	3
Mo			1	5.325	ug/l	6.67	1,540.13	2.923E-04	Pulse	0.10	3
Ag			1	2.627	ug/l	13.35	1,670.16	3.062E-04	Pulse	0.10	3
Sn			1	36.304	ug/l	1.23	17,673.83	3.231E-03	Pulse	0.10	3
Sb			1	5.218	ug/l	5.07	3,363.80	4.438E-04	Pulse	0.10	3
Ba			1	1996.906	ug/l	1.35	427,565.11	5.639E-02	Pulse	0.10	3
Tl			1	1.343	ug/l	22.84	2,030.22	4.698E-04	Pulse	0.10	3
Pb			1	960.599	ug/l	1.12	441,733.73	1.018E-01	Pulse	0.10	3
Pb			1	931.286	ug/l	1.06	373,811.69	8.612E-02	Pulse	0.10	3
Pb			1	942.149	ug/l	1.01	1,736,332.85	4.001E-01	Pulse	0.10	3
Na			2	1078.884	ug/l	1.46	39,392.56	2.544E-01	Pulse	0.30	3
Mg			2	37894.743	ug/l	0.85	627,238.06	4.050E+00	Pulse	0.30	3
Al			2	74909.977	ug/l	0.33	408,939.94	2.640E+00	Pulse	0.30	3
K			2	15044.208	ug/l	0.34	179,055.05	1.156E+00	Pulse	0.30	3
Ca			2	66668.461	ug/l	1.25	41,004.73	2.648E-01	Pulse	0.30	3
Ti			2	2434.503	ug/l	1.42	10,698.01	6.906E-02	Pulse	0.30	3
V			2	246.060	ug/l	2.74	36,578.11	2.362E-01	Pulse	0.30	3
Cr			2	126.348	ug/l	0.98	23,698.16	1.530E-01	Pulse	0.30	3
Mn			2	2477.202	ug/l	0.54	246,301.68	1.590E+00	Pulse	0.30	3
Fe			2	112396.993	ug/l	0.69	17,699,428.19	1.143E+02	Analog	0.30	3
Co			2	41.193	ug/l	1.92	12,662.77	8.176E-02	Pulse	0.30	3
Ni			2	81.503	ug/l	1.33	8,079.85	5.217E-02	Pulse	0.30	3
Cu			2	323.990	ug/l	0.89	74,007.58	4.778E-01	Pulse	0.30	3
Zn			2	2135.745	ug/l	1.18	85,082.07	5.494E-01	Pulse	0.30	3
As			2	57.062	ug/l	9.02	1,117.71	7.218E-03	Pulse	1.00	3
Cd			2	7.131	ug/l	10.81	403.26	3.868E-04	Pulse	0.30	3
Sn			2	41.614	ug/l	3.94	4,666.30	4.476E-03	Pulse	0.30	3
Se			3	3.632	ug/l	1.44	17.40	1.308E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,615,711.00	3.05	111.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,773,984.74	3.99	110.6	Analog	0.10	3
1	Ge		745,154.65	4.84	109.9	Pulse	0.10	3
1	Ge		1,035,790.24	4.34	109.7	Pulse	0.10	3
1	Rh		5,278,899.82	4.33	106.2	Analog	0.10	3
1	In		5,470,934.95	4.37	105.0	Analog	0.10	3
1	Tb		7,585,038.43	4.12	105.5	Analog	0.10	3
1	Ho		7,581,943.64	4.21	105.4	Analog	0.10	3
1	Bi		4,341,057.12	3.72	104.2	Analog	0.10	3
2	Sc		154,890.38	2.08	112.4	Pulse	0.30	3
2	Ge		103,877.45	2.48	111.5	Pulse	0.30	3
2	Ge		156,891.59	1.46	112.4	Pulse	0.30	3
2	Rh		2,847,153.36	1.35	106.0	Analog	0.30	3
2	In		1,042,956.86	1.93	108.2	Pulse	0.30	3
2	Tb		4,051,002.34	0.98	105.3	Analog	0.30	3
2	Ho		4,157,352.75	0.65	107.4	Analog	0.30	3
2	Bi		2,639,778.44	1.38	105.9	Analog	0.30	3
3	Sc		127,283.04	0.22	105.7	Pulse	0.30	3
3	Ge		87,260.15	0.51	106.7	Pulse	0.30	3
3	Ge		133,039.67	0.85	106.2	Pulse	0.30	3
3	Rh		1,568,013.38	1.12	104.0	Analog	0.30	3
3	Tb		2,924,311.48	0.77	101.3	Analog	0.30	3

Quantitation Report

File Name	082SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:55
Sample Name	JD49193-7
Sample Type	Sample
Comment	
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.169	ug/l	0.94	1,450.75	3.120E-04	Pulse	0.25	3
B			1	4.345	ug/l	136.50	14,435.38	3.102E-03	Pulse	0.15	3
Ca			1	50328.276	ug/l	2.02	1,554,824.30	4.102E-01	Analog	0.10	3
Sr			1	180.204	ug/l	0.47	257,525.45	4.889E-02	Pulse	0.10	3
Mo			1	5.797	ug/l	20.83	1,660.15	3.171E-04	Pulse	0.10	3
Ag			1	1.802	ug/l	4.97	1,133.42	2.054E-04	Pulse	0.10	3
Sn			1	30.718	ug/l	6.52	15,297.99	2.781E-03	Pulse	0.10	3
Sb			1	8.263	ug/l	2.87	4,977.64	6.564E-04	Pulse	0.10	3
Ba			1	2008.394	ug/l	0.51	430,223.65	5.671E-02	Pulse	0.10	3
Tl			1	1.119	ug/l	22.98	1,736.83	4.011E-04	Pulse	0.10	3
Pb			1	965.400	ug/l	0.59	445,268.66	1.023E-01	Pulse	0.10	3
Pb			1	931.255	ug/l	0.37	375,052.70	8.612E-02	Pulse	0.10	3
Pb			1	943.329	ug/l	0.26	1,744,253.70	4.005E-01	Pulse	0.10	3
Na			2	1053.252	ug/l	1.70	38,178.28	2.488E-01	Pulse	0.30	3
Mg			2	35191.101	ug/l	0.42	577,158.71	3.761E+00	Pulse	0.30	3
Al			2	68796.933	ug/l	0.52	372,110.86	2.425E+00	Pulse	0.30	3
K			2	26080.530	ug/l	1.49	301,203.42	1.963E+00	Pulse	0.30	3
Ca			2	50182.860	ug/l	1.57	30,588.18	1.994E-01	Pulse	0.30	3
Ti			2	2362.084	ug/l	7.73	10,281.90	6.701E-02	Pulse	0.30	3
V			2	161.446	ug/l	1.37	23,837.52	1.553E-01	Pulse	0.30	3
Cr			2	114.992	ug/l	0.84	21,380.59	1.393E-01	Pulse	0.30	3
Mn			2	2361.584	ug/l	0.51	232,619.09	1.516E+00	Pulse	0.30	3
Fe			2	97133.093	ug/l	0.31	15,159,194.95	9.879E+01	Analog	0.30	3
Co			2	38.009	ug/l	1.28	11,578.82	7.546E-02	Pulse	0.30	3
Ni			2	71.282	ug/l	1.08	7,182.76	4.681E-02	Pulse	0.30	3
Cu			2	274.226	ug/l	0.81	62,277.17	4.059E-01	Pulse	0.30	3
Zn			2	1575.478	ug/l	1.35	64,761.54	4.220E-01	Pulse	0.30	3
As			2	46.264	ug/l	5.98	900.36	5.866E-03	Pulse	1.00	3
Cd			2	3.255	ug/l	13.10	191.02	1.828E-04	Pulse	0.30	3
Sn			2	37.563	ug/l	3.95	4,188.38	4.009E-03	Pulse	0.30	3
Se			3	3.821	ug/l	28.35	18.33	1.348E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,648,766.56	2.33	111.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,791,750.67	4.49	111.1	Analog	0.10	3
1	Ge		746,258.09	4.26	110.0	Pulse	0.10	3
1	Ge		1,034,691.83	4.66	109.6	Pulse	0.10	3
1	Rh		5,267,624.09	4.82	106.0	Analog	0.10	3
1	In		5,509,166.60	4.63	105.7	Analog	0.10	3
1	Tb		7,586,973.43	4.34	105.5	Analog	0.10	3
1	Ho		7,588,296.76	4.46	105.5	Analog	0.10	3
1	Bi		4,354,804.93	4.39	104.5	Analog	0.10	3
2	Sc		153,444.22	0.69	111.4	Pulse	0.30	3
2	Ge		102,934.72	1.29	110.5	Pulse	0.30	3
2	Ge		156,918.91	1.14	112.4	Pulse	0.30	3
2	Rh		2,846,206.00	0.14	106.0	Analog	0.30	3
2	In		1,044,495.18	0.96	108.4	Pulse	0.30	3
2	Tb		4,048,398.73	0.63	105.2	Analog	0.30	3
2	Ho		4,140,169.00	0.17	106.9	Analog	0.30	3
2	Bi		2,643,537.81	0.34	106.1	Analog	0.30	3
3	Sc		130,388.36	0.97	108.3	Pulse	0.30	3
3	Ge		89,694.06	0.53	109.6	Pulse	0.30	3
3	Ge		135,936.39	0.30	108.6	Pulse	0.30	3
3	Rh		1,567,784.87	0.98	104.0	Analog	0.30	3
3	Tb		2,987,555.09	0.61	103.5	Analog	0.30	3

Quantitation Report

File Name	083SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 14:59
Sample Name	JD49193-8
Sample Type	Sample
Comment	
Prep Dilution	25.000
Auto Dilution	N/A
Total Dilution	25.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.763	ug/l	11.25	1,349.41	2.881E-04	Pulse	0.25	3
B			1	-23.638	ug/l	-9.28	10,872.67	2.320E-03	Pulse	0.15	3
Ca			1	39089.775	ug/l	1.50	969,431.68	2.563E-01	Pulse	0.10	3
Sr			1	165.153	ug/l	0.57	190,189.08	3.587E-02	Pulse	0.10	3
Mo			1	6.234	ug/l	5.41	1,453.46	2.745E-04	Pulse	0.10	3
Ag			1	2.462	ug/l	23.83	1,260.11	2.259E-04	Pulse	0.10	3
Sn			1	36.940	ug/l	3.44	14,947.60	2.688E-03	Pulse	0.10	3
Sb			1	4.663	ug/l	17.59	2,613.66	3.399E-04	Pulse	0.10	3
Ba			1	2021.643	ug/l	1.65	351,572.98	4.567E-02	Pulse	0.10	3
Tl			1	1.296	ug/l	13.73	1,646.83	3.759E-04	Pulse	0.10	3
Pb			1	2176.919	ug/l	0.38	808,573.71	1.839E-01	Pulse	0.10	3
Pb			1	2103.658	ug/l	0.02	682,234.22	1.552E-01	Pulse	0.10	3
Pb			1	2170.422	ug/l	0.49	3,230,752.50	7.349E-01	Analog	0.10	3
Na			2	977.764	ug/l	2.39	29,742.26	1.901E-01	Pulse	0.30	3
Mg			2	32120.520	ug/l	0.60	429,971.19	2.747E+00	Pulse	0.30	3
Al			2	69148.320	ug/l	0.25	305,244.85	1.950E+00	Pulse	0.30	3
K			2	14346.578	ug/l	1.13	140,104.33	8.953E-01	Pulse	0.30	3
Ca			2	38659.101	ug/l	0.50	19,244.56	1.230E-01	Pulse	0.30	3
Ti			2	2278.379	ug/l	11.07	8,100.18	5.171E-02	Pulse	0.30	3
V			2	204.951	ug/l	1.85	24,685.12	1.578E-01	Pulse	0.30	3
Cr			2	224.075	ug/l	0.19	33,921.41	2.167E-01	Pulse	0.30	3
Mn			2	2231.182	ug/l	0.85	179,362.42	1.146E+00	Pulse	0.30	3
Fe			2	102265.768	ug/l	0.77	13,027,962.81	8.325E+01	Analog	0.30	3
Co			2	39.286	ug/l	2.01	9,772.31	6.243E-02	Pulse	0.30	3
Ni			2	73.613	ug/l	3.77	6,309.05	4.032E-02	Pulse	0.30	3
Cu			2	381.010	ug/l	0.28	70,440.98	4.501E-01	Pulse	0.30	3
Zn			2	2422.979	ug/l	1.14	78,952.93	5.045E-01	Pulse	0.30	3
As			2	51.289	ug/l	2.30	815.69	5.211E-03	Pulse	1.00	3
Cd			2	9.845	ug/l	10.07	455.51	4.260E-04	Pulse	0.30	3
Sn			2	44.911	ug/l	2.42	4,082.80	3.821E-03	Pulse	0.30	3
Se			3	2.529	ug/l	27.98	13.33	9.651E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,682,961.98	4.15	112.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		3,785,028.59	5.98	110.9	Analog	0.10	3
1	Ge		751,083.71	5.81	110.7	Pulse	0.10	3
1	Ge		1,047,990.48	6.48	111.0	Pulse	0.10	3
1	Rh		5,303,030.75	4.94	106.7	Analog	0.10	3
1	In		5,565,773.14	5.72	106.8	Analog	0.10	3
1	Tb		7,702,391.76	5.34	107.1	Analog	0.10	3
1	Ho		7,658,135.93	5.40	106.4	Analog	0.10	3
1	Bi		4,397,157.02	5.81	105.5	Analog	0.10	3
2	Sc		156,507.57	1.66	113.6	Pulse	0.30	3
2	Ge		106,177.43	1.06	114.0	Pulse	0.30	3
2	Ge		160,106.52	1.08	114.7	Pulse	0.30	3
2	Rh		2,895,492.52	1.32	107.8	Analog	0.30	3
2	In		1,068,577.53	1.11	110.9	Pulse	0.30	3
2	Tb		4,146,905.39	2.35	107.8	Analog	0.30	3
2	Ho		4,274,561.64	1.15	110.4	Analog	0.30	3
2	Bi		2,699,369.06	1.76	108.3	Analog	0.30	3
3	Sc		130,117.71	2.93	108.0	Pulse	0.30	3
3	Ge		90,832.55	2.33	111.0	Pulse	0.30	3
3	Ge		137,898.32	2.36	110.1	Pulse	0.30	3
3	Rh		1,608,810.32	2.32	106.7	Analog	0.30	3
3	Tb		3,006,916.20	3.09	104.2	Analog	0.30	3

Quantitation Report

File Name	084_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 15:02
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	51.035	ug/l	2.18	279,389.81	6.820E-02	Pulse	0.25	3
B			1	82.097	ug/l	13.39	239,126.53	5.817E-02	Pulse	0.15	3
Ca			1	4924.135	ug/l	6.56	2,911,148.39	7.991E-01	Analog	0.10	3
Sr			1	52.529	ug/l	3.12	1,346,619.51	2.847E-01	Analog	0.10	3
Mo			1	51.840	ug/l	1.98	258,807.57	5.468E-02	Pulse	0.10	3
Ag			1	52.498	ug/l	2.30	633,968.00	1.283E-01	Pulse	0.10	3
Sn			1	50.532	ug/l	2.42	403,816.69	8.173E-02	Pulse	0.10	3
Sb			1	53.027	ug/l	2.59	509,069.64	7.411E-02	Pulse	0.10	3
Ba			1	51.157	ug/l	1.19	198,368.20	2.889E-02	Pulse	0.10	3
Tl			1	51.237	ug/l	4.22	1,238,579.17	3.142E-01	Mix	0.10	3
Pb			1	51.019	ug/l	2.10	425,705.26	1.080E-01	Pulse	0.10	3
Pb			1	50.317	ug/l	2.01	366,463.79	9.301E-02	Pulse	0.10	3
Pb			1	50.845	ug/l	1.85	1,700,269.11	4.316E-01	Pulse	0.10	3
Na			2	5256.838	ug/l	1.38	3,429,199.03	2.280E+01	Analog	0.30	3
Mg			2	5187.994	ug/l	1.87	1,666,697.64	1.108E+01	Analog	0.30	3
Al			2	5193.398	ug/l	1.10	550,458.78	3.660E+00	Pulse	0.30	3
K			2	5215.339	ug/l	0.60	1,155,414.26	7.682E+00	Pulse	0.30	3
Ca			2	5379.735	ug/l	0.39	64,249.71	4.271E-01	Pulse	0.30	3
Ti			2	52.505	ug/l	2.83	4,483.99	2.981E-02	Pulse	0.30	3
V			2	51.364	ug/l	0.54	147,807.79	9.827E-01	Pulse	0.30	3
Cr			2	51.234	ug/l	0.37	185,730.90	1.235E+00	Pulse	0.30	3
Mn			2	51.052	ug/l	1.11	98,668.19	6.561E-01	Pulse	0.30	3
Fe			2	5236.011	ug/l	1.11	16,015,992.14	1.065E+02	Analog	0.30	3
Co			2	50.488	ug/l	0.41	300,652.10	1.999E+00	Pulse	0.30	3
Ni			2	50.422	ug/l	1.04	80,919.23	5.380E-01	Pulse	0.30	3
Cu			2	49.982	ug/l	0.52	218,807.30	1.455E+00	Pulse	0.30	3
Zn			2	48.399	ug/l	2.61	42,699.94	2.839E-01	Pulse	0.30	3
As			2	51.312	ug/l	1.38	19,331.75	1.285E-01	Pulse	1.00	3
Cd			2	50.428	ug/l	1.31	53,380.64	5.309E-02	Pulse	0.30	3
Sn			2	51.140	ug/l	0.24	118,223.45	1.176E-01	Pulse	0.30	3
Se			3	202.976	ug/l	0.22	11,490.42	8.657E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,094,186.61	4.93	98.4	Analog	0.10	3
1	Sc		3,643,637.55	1.71	106.8	Analog	0.10	3
1	Ge		671,732.63	6.29	99.0	Pulse	0.10	3

Quantitation Report

1	Ge		937,426.24	6.43	99.3	Pulse	0.10	3
1	Rh		4,730,515.76	6.01	95.2	Analog	0.10	3
1	In		4,937,380.83	5.30	94.7	Analog	0.10	3
1	Tb		6,862,994.48	5.18	95.4	Analog	0.10	3
1	Ho		6,863,456.77	5.35	95.4	Analog	0.10	3
1	Bi		3,938,162.13	3.55	94.5	Analog	0.10	3
2	Sc		150,414.45	1.77	109.2	Pulse	0.30	3
2	Ge		99,195.93	1.07	106.5	Pulse	0.30	3
2	Ge		150,847.02	0.97	108.1	Pulse	0.30	3
2	Rh		2,705,265.86	0.33	100.7	Analog	0.30	3
2	In		1,005,347.41	1.20	104.3	Pulse	0.30	3
2	Tb		3,914,151.93	0.82	101.7	Analog	0.30	3
2	Ho		3,975,675.40	0.51	102.7	Analog	0.30	3
2	Bi		2,509,835.94	1.05	100.7	Analog	0.30	3
3	Sc		127,437.43	0.26	105.8	Pulse	0.30	3
3	Ge		86,674.81	0.79	105.9	Pulse	0.30	3
3	Ge		132,734.25	0.15	106.0	Pulse	0.30	3
3	Rh		1,510,366.33	1.14	100.2	Analog	0.30	3
3	Tb		2,902,337.45	0.58	100.5	Analog	0.30	3

Quantitation Report

File Name	085BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b080922m2.b
Method File	
Method Path	
Acq Time	2022-08-09 15:06
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-09 15:05
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.173	ug/l	109.00	1,108.08	2.647E-04	Pulse	0.25	3
B			1	8.537	ug/l	20.38	36,858.28	8.697E-03	Pulse	0.15	3
Ca			1	21.277	ug/l	115.35	24,703.74	7.143E-03	Pulse	0.10	3
Sr			1	0.254	ug/l	88.64	7,142.75	1.460E-03	Pulse	0.10	3
Mo			1	0.413	ug/l	81.78	2,190.32	4.471E-04	Pulse	0.10	3
Ag			1	0.245	ug/l	119.24	2,967.41	5.838E-04	Pulse	0.10	3
Sn			1	0.904	ug/l	47.07	9,149.83	1.763E-03	Pulse	0.10	3
Sb			1	0.278	ug/l	90.79	3,263.98	4.673E-04	Pulse	0.10	3
Ba			1	0.207	ug/l	103.75	830.08	1.198E-04	Pulse	0.10	3
Tl			1	0.267	ug/l	98.13	6,706.28	1.692E-03	Pulse	0.10	3
Pb			1	0.198	ug/l	102.12	4,687.66	1.161E-03	Pulse	0.10	3
Pb			1	0.231	ug/l	91.47	4,094.13	1.015E-03	Pulse	0.10	3
Pb			1	0.204	ug/l	99.36	18,435.65	4.567E-03	Pulse	0.10	3
Na			2	5.302	ug/l	6.17	6,390.18	4.357E-02	Pulse	0.30	3
Mg			2	4.308	ug/l	0.85	1,876.79	1.279E-02	Pulse	0.30	3
Al			2	2.365	ug/l	17.06	575.57	3.925E-03	Pulse	0.30	3
K			2	4.900	ug/l	12.70	9,291.56	6.334E-02	Pulse	0.30	3
Ca			2	10.410	ug/l	12.00	157.78	1.076E-03	Pulse	0.30	3
Ti			2	0.224	ug/l	36.18	23.33	1.591E-04	Pulse	0.30	3
V			2	0.008	ug/l	79.07	178.89	1.219E-03	Pulse	0.30	3
Cr			2	0.020	ug/l	20.45	196.67	1.341E-03	Pulse	0.30	3
Mn			2	0.221	ug/l	18.34	573.35	3.911E-03	Pulse	0.30	3
Fe			2	10.067	ug/l	14.18	64,993.03	4.430E-01	Pulse	0.30	3
Co			2	0.016	ug/l	7.69	125.38	8.546E-04	Pulse	0.30	3
Ni			2	-0.147	ug/l	-28.67	1,160.05	7.907E-03	Pulse	0.30	3
Cu			2	-0.065	ug/l	-13.14	1,100.05	7.501E-03	Pulse	0.30	3
Zn			2	-0.612	ug/l	-55.90	8,966.98	6.114E-02	Pulse	0.30	3
As			2	0.068	ug/l	66.87	36.00	2.459E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.021	ug/l	30.13	34.41	3.382E-05	Pulse	0.30	3
Sn			2	0.710	ug/l	10.58	1,337.85	1.316E-03	Pulse	0.30	3
Se			3	0.252	ug/l	5.94	21.60	1.609E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		4,248,406.67	2.77	102.1	Analog	0.10	3
1	Sc		3,518,204.95	5.05	103.1	Analog	0.10	3
1	Ge		688,631.89	5.05	101.5	Pulse	0.10	3
1	Ge		964,782.49	5.75	102.2	Pulse	0.10	3
1	Rh		5,004,286.90	4.20	100.7	Analog	0.10	3
1	In		5,244,178.45	3.99	100.6	Analog	0.10	3
1	Tb		7,161,011.14	5.19	99.6	Analog	0.10	3
1	Ho		7,121,909.27	4.72	99.0	Analog	0.10	3
1	Bi		4,083,977.96	4.92	98.0	Analog	0.10	3
2	Sc		146,685.26	0.77	106.5	Pulse	0.30	3
2	Ge		98,964.66	2.00	106.2	Pulse	0.30	3
2	Ge		150,838.28	1.54	108.0	Pulse	0.30	3
2	Rh		2,816,149.06	1.50	104.9	Analog	0.30	3
2	In		1,017,413.56	1.73	105.6	Pulse	0.30	3
2	Tb		3,962,189.98	0.51	103.0	Analog	0.30	3
2	Ho		4,059,104.01	1.22	104.8	Analog	0.30	3
2	Bi		2,552,532.68	1.84	102.4	Analog	0.30	3
3	Sc		128,153.81	0.40	106.4	Pulse	0.30	3
3	Ge		87,295.61	0.88	106.7	Pulse	0.30	3
3	Ge		134,222.68	0.85	107.2	Pulse	0.30	3
3	Rh		1,591,583.69	1.20	105.5	Analog	0.30	3
3	Tb		2,949,043.29	0.25	102.2	Analog	0.30	3

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Current Signal

Operator Name	Metals
Acq. Date-Time	2022-08-09 08:22:16
Instrument Name	G3281A JP10340551
Batch Folder	D:\Agilent\ICPMH\1\DATA\.b080922m1.b

[1]

Sensitivity

Ch	Mass	Range	Count	Avg Count	RSD%
1	7	10000	6201	6243	5.037
2	59	10000	4630	4762	4.490
3	89	10000	7903	7738	3.304
4	140	10000	7705	8031	3.525
5	205	10000	4982	5326	4.136
6	156/140	2	0.922 %	0.996 %	20.227
7	70/140	10	3.154 %	4.047 %	13.751
8	9	100	43	46	14.708
9	11	1000	609	580	6.138
10	88	100	63	63	11.020
11	95	50	26	19	31.468
12	107	20	2	2	63.899
13	121	100	45	44	15.072
14	137	20	9	10	39.243
15	208	200	85	77	12.456

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.30 L/min
RF Power	1500 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	7.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Q1 Entrance	---	Cell Exit	-58 V
Extract 2	-105.0 V	Q1 Exit	---	Deflect	15.8 V
Omega Bias	-55 V	Cell Focus	---	Plate Bias	-45 V
Omega Lens	6.7 V	Cell Entrance	-40 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Axial Acceleration	---
He Flow	0.0 mL/min	4th Gas Flow	---	OctP RF	190 V
H2 Flow	---	OctP Bias	-8.0 V	Energy Discrimination	5.0 V

Meter

Current Signal

Name	Value	Unit
Water RF/WC/IF	1.10	L/min
Water Temp	35.2	°C
S/C Temp (L)	2.0	°C
Reflected Power	5	W
Forward Power	1498	W

US EPA Tune Check Report

Operator Name	Metals
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\.b080922m1.b
Acq. Date-Time	2022-08-09 08:30:10
Report Comment	---
Instrument Name	G3281A JP10340551

[1]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	20.00	16054	160535.40			0.830	5.000
24	20.00	55438	554379.65			1.132	5.000
25	20.00	7189	71894.73			1.181	5.000
26	20.00	8245	82447.51			1.709	5.000
59	20.00	56108	561084.59			1.084	5.000
115	20.00	70952	709516.29			0.447	5.000
206	20.00	20230	202300.00			1.022	5.000
207	20.00	17781	177806.90			0.986	5.000
208	20.00	42576	425757.56			0.954	5.000

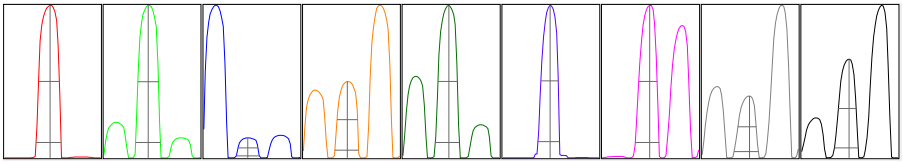
Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	15865	16002	16039	16190	16172
24	54330	55565	55833	55769	55693
25	7048	7176	7232	7231	7261
26	8006	8265	8381	8289	8282
59	55030	56261	56371	56480	56401
115	70619	71110	71238	71195	70597
206	19872	20405	20265	20315	20293
207	17522	17790	17971	17905	17715
208	41874	42599	42767	42896	42743

Integration Time [sec] 0.1

Resolution/Axis

US EPA Tune Check Report



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	25940.08	8.95	8.90 - 9.10	
24	91915.19	23.90	23.90 - 24.10	
25	12088.30	24.90	24.90 - 25.10	
26	13607.54	25.90	25.90 - 26.10	
59	97729.67	58.95	58.90 - 59.10	
115	136144.67	115.00	114.90 - 115.10	
206	37050.55	206.00	205.90 - 206.10	
207	32140.45	207.00	206.90 - 207.10	
208	79321.54	208.00	207.90 - 208.10	

Mass	W-50%	W-10%	W-10% (Required)	W-10% (Flag)
9	0.64	0.766	0.900	
24	0.63	0.761	0.900	
25	0.61	0.706	0.900	
26	0.63	0.732	0.900	
59	0.60	0.741	0.900	
115	0.53	0.665	0.900	
206	0.56	0.730	0.900	
207	0.57	0.748	0.900	
208	0.54	0.732	0.900	

Integration Time [sec]	0.1
Acquisition Time [sec]	235
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.30 L/min
RF Power	1500 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	7.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.7 V	Deflect	15.8 V
Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-45 V
Omega Bias	-55 V	Cell Exit	-58 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V

US EPA Tune Check Report

He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	127	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	-1.6 mm	Torch V	0.6 mm		
EM					
Discriminator	4.5 mV	Analog HV	1695 V	Pulse HV	1422 V

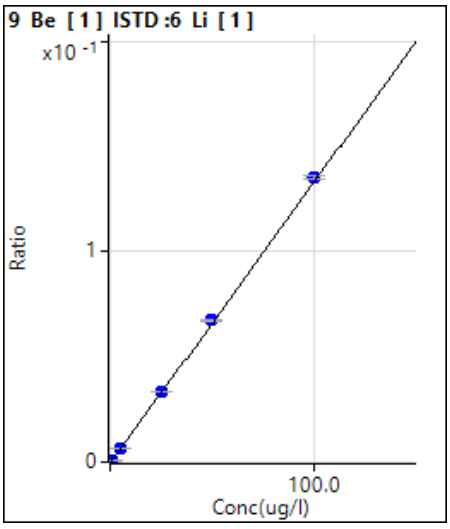
11.1.2

11

Calibration for 083SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\.b080922m2.b\
Analysis File: .b080922m2.batch.bin
DA Date-Time: 2022-08-09 15:05:13
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

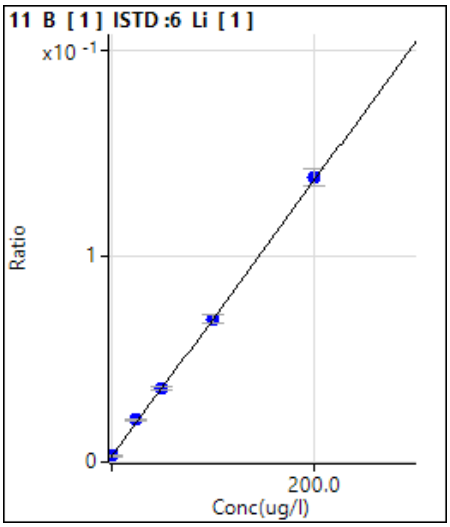
Level	Standard Data File	Sample Name	Acq. Date-Time
1	013SMPL.d	STDA	2022-08-09 11:02:40
2	004CALS.d	STDB	2022-08-09 10:31:00
3	005CALS.d	STDC	2022-08-09 10:34:28
4	006CALS.d	STDD	2022-08-09 10:37:56
5	007CALS.d	STDE	2022-08-09 10:41:23
6	008CALS.d	STDF	2022-08-09 10:44:51
7	009CALS.d	STDG	2022-08-09 10:48:18
8	010CALS.d	STDH	2022-08-09 10:51:45
9	011CALS.d	STDI	2022-08-09 10:55:11
10	012CALS.d	STDJ	2022-08-09 10:58:36



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	146.67	0.0000	P	27.7	
2	☐	0.500	0.504	2949.63	0.0007	P	5.6	0.8
3	☐	5.000	4.914	26009.26	0.0066	P	1.2	-1.7
4	☐	25.000	24.991	136384.65	0.0334	P	0.6	0.0
5	☐	50.000	50.504	273496.56	0.0675	P	1.4	1.0
6	☐	100.000	101.282	533554.46	0.1353	P	1.2	1.3
7	☐			682.70	0.0002	P	64.3	
8	☐			206.67	0.0001	P	17.8	
9	☐			197.34	0.0000	P	22.8	
10	☐			174.67	0.0000	P	40.9	

y = 0.0013 * x + 3.3659E-005
R = 1.0000
DL = 0.0218 ug/l
BEC = 0.0252 ug/l

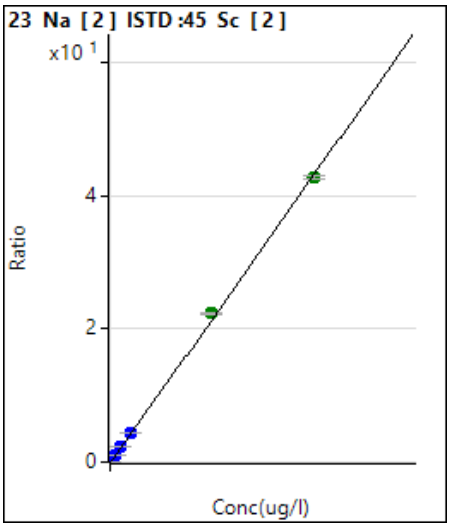
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.057	12122.40	0.0029	P	6.0	
2	☐	25.000	26.108	85649.61	0.0205	P	2.3	4.4
3	☐			23096.04	0.0059	P	1.8	
4	☐			73561.19	0.0180	P	5.2	
5	☐	50.000	49.091	145779.86	0.0360	P	4.0	-1.8
6	☐	100.000	98.783	273779.00	0.0694	P	5.5	-1.2
7	☐	200.000	201.153	537687.11	0.1382	P	6.2	0.6
8	☐			69434.86	0.0173	P	17.1	
9	☐			21858.97	0.0054	P	7.8	
10	☐			15596.37	0.0039	P	2.6	

y = 6.724964E-004 * x + 0.002956
R = 0.9999
DL = 0.7827 ug/l
BEC = 4.396 ug/l

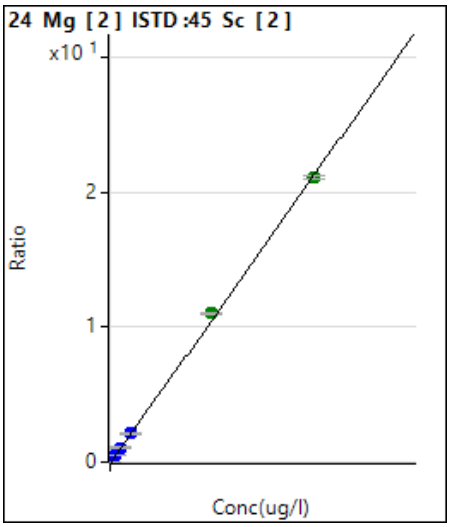
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.003	2839.16	0.0206	P	1.3	
2	☐	250.000	241.999	147018.54	1.0693	P	1.4	-3.2
3	☐			7729.63	0.0587	P	2.8	
4	☐			17164.38	0.1288	P	0.8	
5	☐			33065.67	0.2465	P	1.4	
6	☐			61702.77	0.4670	P	1.4	
7	☐	500.000	510.314	293078.75	2.2321	P	0.8	2.1
8	☐	1000.000	997.798	580889.32	4.3446	P	1.0	-0.2
9	☐	5000.000	5143.348	3063692.38	22.3096	A	1.7	2.9
10	☐	10000.000	9862.905	5970221.01	42.7620	A	1.5	-1.4

y = 0.004334 * x + 0.020594
R = 0.9998
DL = 0.1828 ug/l
BEC = 4.752 ug/l

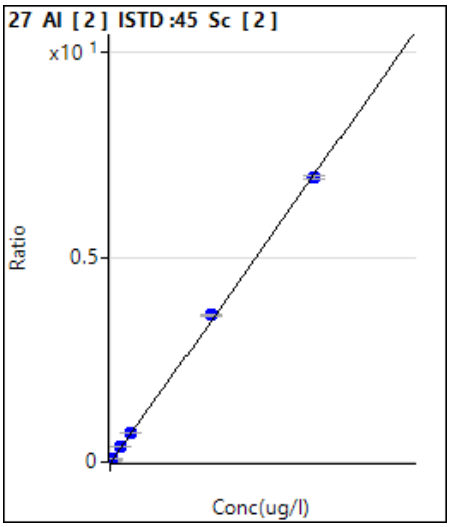
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.096	523.35	0.0038	P	10.7	
2	☐	250.000	236.123	69829.69	0.5079	P	0.9	-5.6
3	☐			2150.16	0.0163	P	1.4	
4	☐			7479.50	0.0561	P	1.3	
5	☐			15127.99	0.1128	P	2.3	
6	☐			28056.69	0.2124	P	2.5	
7	☐	500.000	502.827	141472.45	1.0774	P	0.9	0.6
8	☐	1000.000	980.881	280576.26	2.0984	P	0.4	-1.9
9	☐	5000.000	5155.141	1512466.54	11.0130	A	1.2	3.1
10	☐	10000.000	9882.205	2947085.09	21.1081	A	1.4	-1.2

y = 0.002136 * x + 0.003594
R = 0.9998
DL = 0.5692 ug/l
BEC = 1.683 ug/l

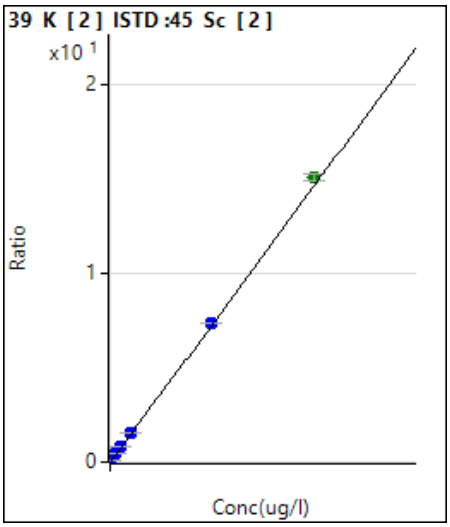
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.289	283.34	0.0021	P	17.4	
2	☐	25.000	24.089	2644.68	0.0192	P	3.3	-3.6
3	☐			648.91	0.0049	P	8.0	
4	☐			2476.88	0.0186	P	4.1	
5	☐	50.000	52.676	5279.79	0.0394	P	3.0	5.4
6	☐	100.000	102.520	9836.30	0.0745	P	1.9	2.5
7	☐	500.000	517.576	48160.64	0.3668	P	1.3	3.5
8	☐	1000.000	1022.893	96636.90	0.7227	P	0.2	2.3
9	☐	5000.000	5091.644	492809.46	3.5884	P	1.2	1.8
10	☐	10000.000	9868.639	970729.75	6.9530	P	1.5	-1.3

y = 7.043224E-004 * x + 0.002259
R = 0.9999
DL = 1.524 ug/l
BEC = 3.208 ug/l

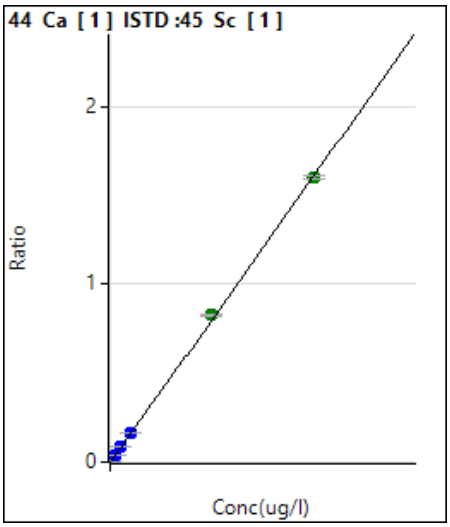
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.596	7859.70	0.0570	P	1.7	
2	☐	250.000	246.145	57214.96	0.4161	P	0.4	-1.5
3	☐			8847.98	0.0672	P	1.6	
4	☐			12722.73	0.0955	P	2.0	
5	☐			17562.70	0.1309	P	0.7	
6	☐			27175.48	0.2057	P	2.0	
7	☐	500.000	506.536	104630.41	0.7968	P	0.5	1.3
8	☐	1000.000	1003.093	203628.65	1.5229	P	0.4	0.3
9	☐	5000.000	4983.986	1008594.33	7.3438	P	0.7	-0.3
10	☐	10000.000	10274.387	2105125.54	15.0794	A	2.2	2.7

y = 0.0015 * x + 0.0562
R = 0.9999
DL = 1.963 ug/l
BEC = 38.42 ug/l

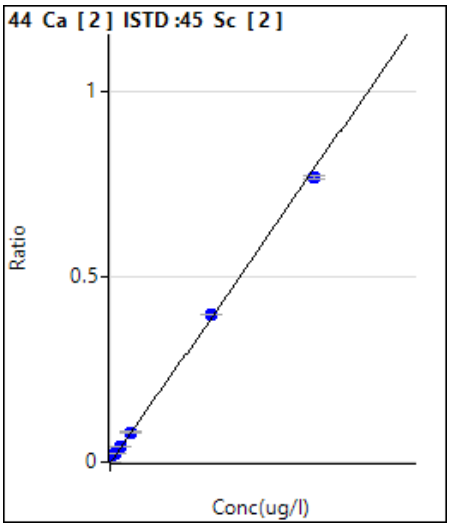
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.095	12348.24	0.0037	P	87.9	
2	☐	250.000	236.582	144301.61	0.0419	P	2.4	-5.4
3	☐			12878.79	0.0040	P	0.8	
4	☐			25193.10	0.0075	P	0.6	
5	☐			42274.85	0.0125	P	2.2	
6	☐			83660.42	0.0260	P	0.5	
7	☐	500.000	524.179	282337.06	0.0884	P	1.2	4.8
8	☐	1000.000	1003.337	552204.43	0.1658	P	1.4	0.3
9	☐	5000.000	5099.106	2780619.75	0.8274	A	1.2	2.0
10	☐	10000.000	9891.763	5485082.21	1.6015	A	1.3	-1.1

y = 1.615302E-004 * x + 0.003706
R = 0.9999
DL = 60.23 ug/l
BEC = 22.95 ug/l

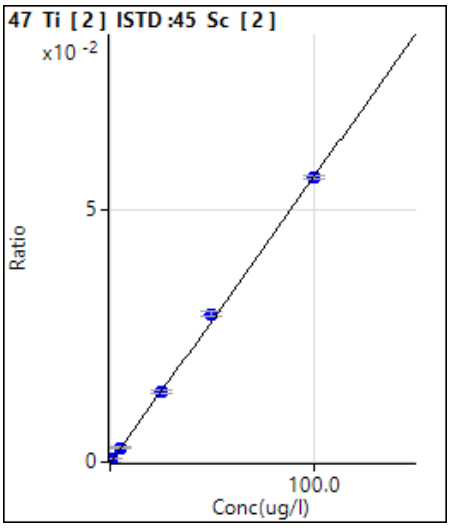
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.100	33.33	0.0002	P	10.4	
2	☐	250.000	266.373	2941.41	0.0214	P	1.6	6.5
3	☐			381.12	0.0029	P	6.9	
4	☐			1162.28	0.0087	P	2.2	
5	☐			2439.09	0.0182	P	8.1	
6	☐			4629.60	0.0350	P	2.0	
7	☐	500.000	506.224	5306.47	0.0404	P	2.9	1.2
8	☐	1000.000	1011.175	10763.55	0.0805	P	1.2	1.1
9	☐	5000.000	5000.483	54534.42	0.3971	P	0.1	0.0
10	☐	10000.000	9671.989	107198.69	0.7677	P	0.9	-3.3

y = 7.9353E-005 * x + 2.4992E-004
R = 0.9999
DL = 0.9529 ug/l
BEC = 3.149 ug/l

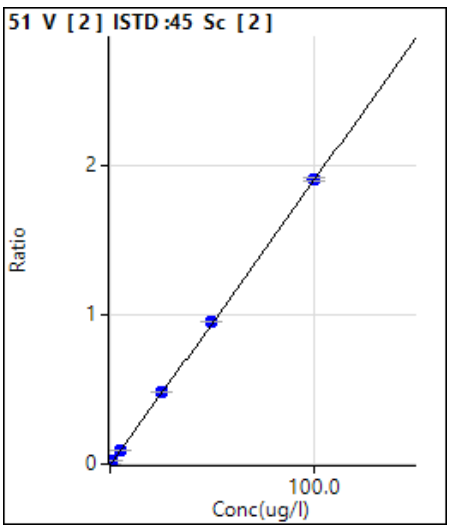
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4.44	0.0000	P	43.4	
2	☐	1.000	1.143	93.33	0.0007	P	26.7	14.3
3	☐	5.000	4.955	374.45	0.0028	P	3.8	-0.9
4	☐	25.000	24.455	1852.35	0.0139	P	4.6	-2.2
5	☐	50.000	51.584	3928.30	0.0293	P	4.0	3.2
6	☐	100.000	99.345	7447.31	0.0564	P	1.1	-0.7
7	☐			34.44	0.0003	P	28.7	
8	☐			10.00	0.0001	P	57.2	
9	☐			3.33	0.0000	P	1.5	
10	☐			5.56	0.0000	P	90.9	

y = 5.6708E-004 * x + 3.2248E-005
R = 0.9998
DL = 0.074 ug/l
BEC = 0.05687 ug/l

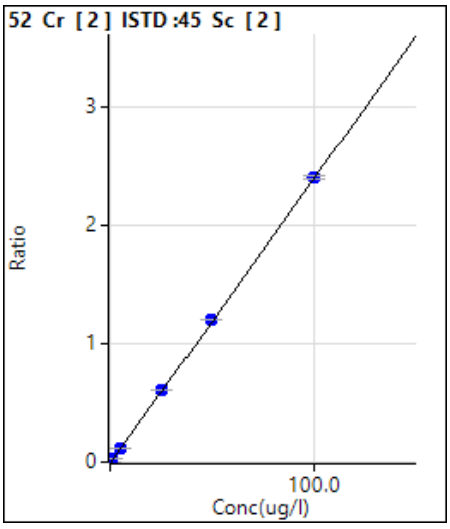
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147.78	0.0011	P	5.8	
2	☐	1.000	0.961	2672.47	0.0194	P	0.9	-3.9
3	☐	5.000	4.942	12584.89	0.0955	P	2.4	-1.2
4	☐	25.000	25.097	64072.88	0.4807	P	0.7	0.4
5	☐	50.000	50.103	128601.32	0.9586	P	0.3	0.2
6	☐	100.000	99.928	252425.68	1.9109	P	1.2	-0.1
7	☐			103.34	0.0008	P	20.9	
8	☐			116.67	0.0009	P	27.6	
9	☐			122.22	0.0009	P	10.0	
10	☐			145.56	0.0010	P	12.4	

y = 0.0191 * x + 0.0011
R = 1.0000
DL = 0.009808 ug/l
BEC = 0.05613 ug/l

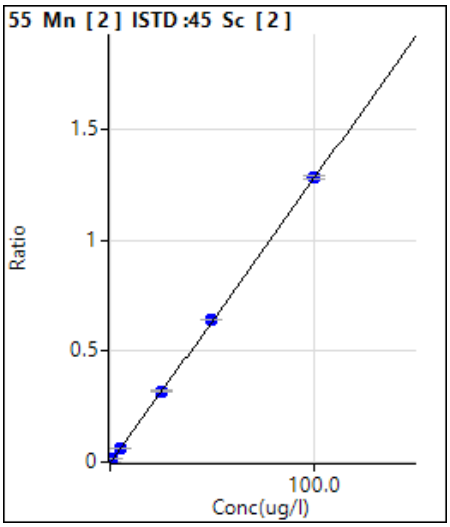
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.013	162.28	0.0012	P	18.2	
2	☐	1.000	0.994	3411.01	0.0248	P	0.6	-0.6
3	☐	5.000	4.970	15884.00	0.1206	P	1.4	-0.6
4	☐	25.000	25.129	80784.93	0.6061	P	1.1	0.5
5	☐	50.000	50.135	162103.72	1.2084	P	0.4	0.3
6	☐	100.000	100.021	318354.08	2.4099	P	1.2	0.0
7	☐			261.28	0.0020	P	23.6	
8	☐			212.77	0.0016	P	12.9	
9	☐			172.48	0.0013	P	2.5	
10	☐			186.80	0.0013	P	40.0	

y = 0.0241 * x + 8.6242E-004
R = 1.0000
DL = 0.02663 ug/l
BEC = 0.03581 ug/l

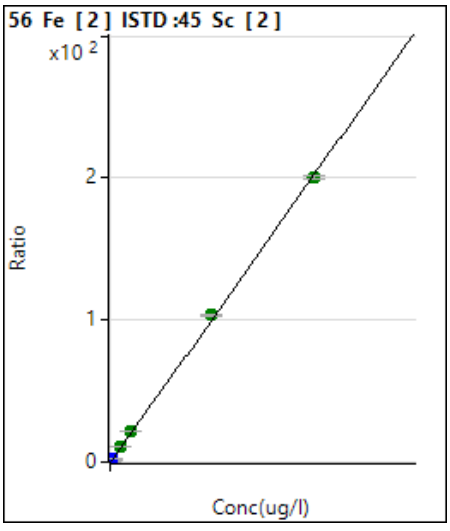
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.022	108.89	0.0008	P	18.9	
2	☐	1.000	1.026	1957.92	0.0142	P	1.1	2.6
3	☐	5.000	4.827	8299.96	0.0630	P	1.9	-3.5
4	☐	25.000	24.889	42707.31	0.3204	P	1.1	-0.4
5	☐	50.000	49.925	86069.77	0.6416	P	0.7	-0.2
6	☐	100.000	99.955	169564.00	1.2835	P	0.7	0.0
7	☐			237.78	0.0018	P	15.0	
8	☐			215.56	0.0016	P	11.5	
9	☐			445.57	0.0032	P	7.0	
10	☐			715.58	0.0051	P	8.5	

y = 0.0128 * x + 0.0011
R = 1.0000
DL = 0.03496 ug/l
BEC = 0.08369 ug/l

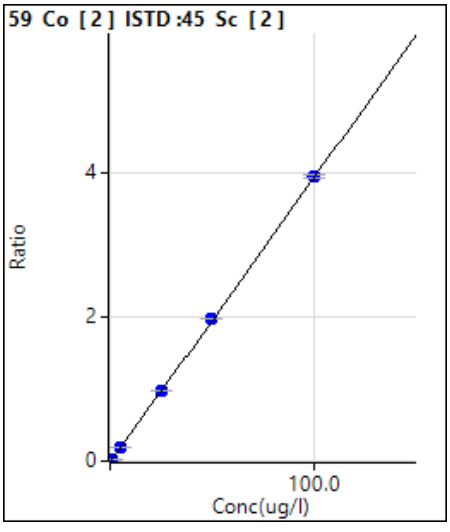
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	7.101	52756.44	0.3828	P	8.4	
2	☐	25.000	17.142	80643.37	0.5866	P	1.9	-31.4
3	☐			22361.94	0.1697	P	3.7	
4	☐			74827.13	0.5614	P	0.9	
5	☐	50.000	42.421	147507.48	1.0995	P	0.4	-15.2
6	☐	100.000	93.666	282630.32	2.1394	P	1.3	-6.3
7	☐	500.000	527.280	1436256.89	10.9386	A	1.1	5.5
8	☐	1000.000	1043.069	2862165.58	21.4054	A	0.3	4.3
9	☐	5000.000	5087.272	14209773.88	103.4732	A	1.5	1.7
10	☐	10000.000	9869.651	27994419.44	200.5206	A	1.8	-1.3

y = 0.020293 * x + 0.238707
R = 0.9999
DL = 4.74 ug/l
BEC = 11.76 ug/l

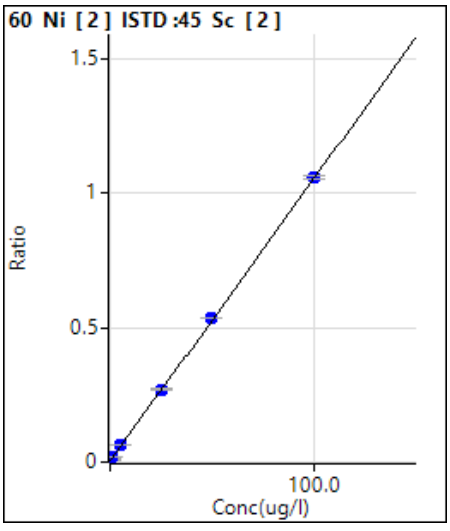
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.97	0.0002	P	32.5	
2	☐	0.500	0.505	2777.83	0.0202	P	2.0	0.9
3	☐	5.000	4.939	25786.85	0.1957	P	2.5	-1.2
4	☐	25.000	24.794	130855.16	0.9817	P	0.5	-0.8
5	☐	50.000	50.231	266796.49	1.9888	P	0.1	0.5
6	☐	100.000	100.035	523141.75	3.9604	P	1.7	0.0
7	☐			89.46	0.0007	P	11.2	
8	☐			107.83	0.0008	P	15.7	
9	☐			269.42	0.0020	P	22.0	
10	☐			508.87	0.0036	P	13.6	

y = 0.039588 * x + 2.231158E-004
R = 1.0000
DL = 0.005532 ug/l
BEC = 0.005636 ug/l

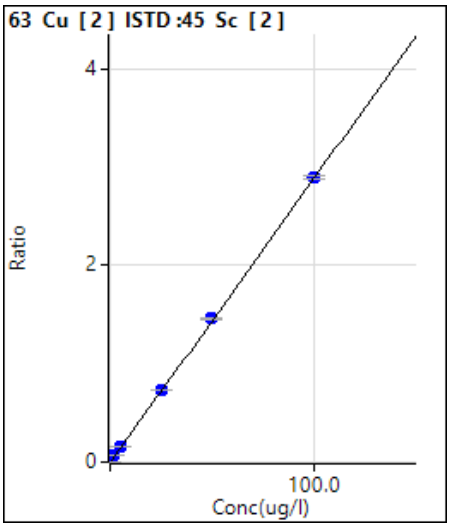
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.023	1268.95	0.0092	P	7.8	
2	☐	1.000	1.092	2874.74	0.0209	P	4.0	9.2
3	☐	5.000	5.004	8155.45	0.0619	P	1.2	0.1
4	☐	25.000	24.799	35907.99	0.2694	P	1.6	-0.8
5	☐	50.000	50.159	71800.84	0.5352	P	1.0	0.3
6	☐	100.000	99.970	139677.13	1.0574	P	1.8	0.0
7	☐			1302.29	0.0099	P	12.3	
8	☐			1471.20	0.0110	P	1.0	
9	☐			1386.75	0.0101	P	3.2	
10	☐			1625.66	0.0116	P	2.0	

y = 0.010482 * x + 0.009452
R = 1.0000
DL = 0.2055 ug/l
BEC = 0.9017 ug/l

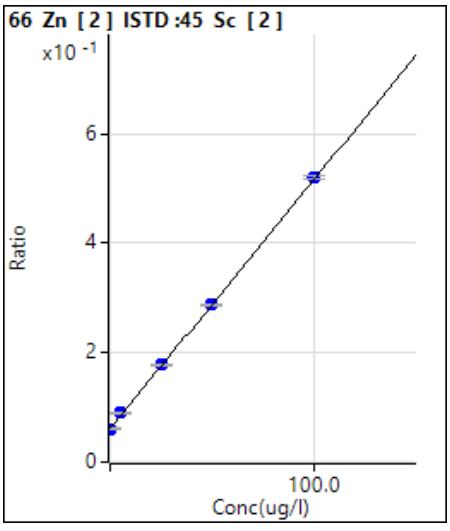
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.090	935.59	0.0068	P	8.2	
2	☐	2.000	2.017	9308.27	0.0677	P	2.9	0.9
3	☐	5.000	5.030	20396.11	0.1548	P	2.0	0.6
4	☐	25.000	24.959	97454.78	0.7311	P	0.6	-0.2
5	☐	50.000	50.151	195798.35	1.4595	P	0.3	0.3
6	☐	100.000	99.933	382947.45	2.8991	P	1.8	-0.1
7	☐			1693.44	0.0129	P	5.5	
8	☐			1234.51	0.0092	P	2.0	
9	☐			1541.20	0.0112	P	4.1	
10	☐			1460.08	0.0105	P	6.4	

y = 0.028916 * x + 0.009385
R = 1.0000
DL = 0.05807 ug/l
BEC = 0.3246 ug/l

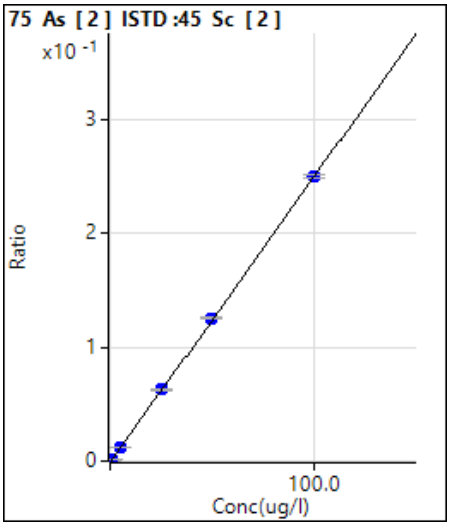
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.674	8384.46	0.0609	P	2.6	
2	☐	5.000	5.649	12321.41	0.0896	P	1.6	13.0
3	☐			11568.64	0.0878	P	3.4	
4	☐	25.000	25.194	23787.38	0.1785	P	1.6	0.8
5	☐	50.000	49.180	38567.50	0.2875	P	1.3	-1.6
6	☐	100.000	100.428	68755.58	0.5205	P	1.3	0.4
7	☐			9582.88	0.0730	P	1.9	
8	☐			8333.32	0.0623	P	1.5	
9	☐			8364.45	0.0609	P	1.3	
10	☐			9646.28	0.0691	P	0.8	

y = 0.0045 * x + 0.0639
R = 0.9999
DL = 1.039 ug/l
BEC = 14.06 ug/l

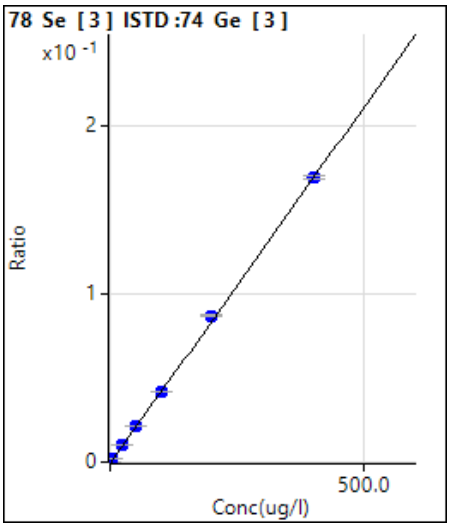
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	10.67	0.0001	P	23.8	
2	☐	0.500	0.475	174.00	0.0013	P	7.8	-5.0
3	☐	5.000	4.833	1604.08	0.0122	P	4.5	-3.3
4	☐	25.000	25.072	8376.49	0.0628	P	1.5	0.3
5	☐	50.000	50.103	16837.67	0.1255	P	0.9	0.2
6	☐	100.000	99.717	32988.42	0.2497	P	1.6	-0.3
7	☐			42.00	0.0003	P	15.7	
8	☐			22.33	0.0002	P	3.8	
9	☐			15.67	0.0001	P	42.8	
10	☐			16.00	0.0001	P	30.6	

y = 0.0025 * x + 7.4942E-005
R = 1.0000
DL = 0.02205 ug/l
BEC = 0.02993 ug/l

Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.032	8.40	0.0001	P	7.3	
2	☐	0.500	0.428	29.53	0.0002	P	3.4	-14.5
3	☐	5.000	4.748	253.33	0.0021	P	3.0	-5.0
4	☐	25.000	24.480	1267.85	0.0105	P	2.3	-2.1
5	☐	50.000	49.820	2600.07	0.0213	P	1.8	-0.4
6	☐	100.000	98.535	5099.06	0.0421	P	1.7	-1.5
7	☐	200.000	204.719	10568.74	0.0873	P	0.6	2.4
8	☐	400.000	397.919	20654.04	0.1697	P	0.8	-0.5
9	☐			33.07	0.0003	P	7.9	
10	☐			10.87	0.0001	P	16.9	

y = 4.262268E-004 * x + 5.339289E-005

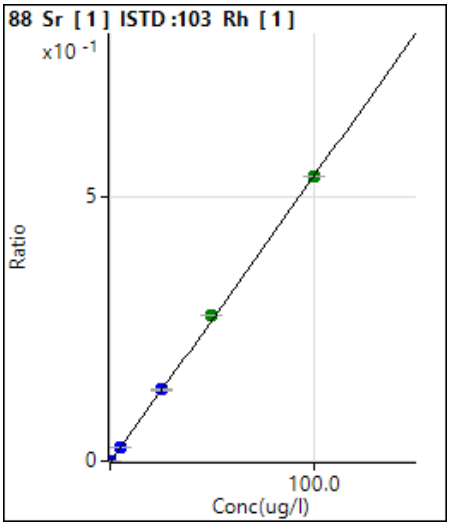
R = 0.9999

DL = 0.03428 ug/l

BEC = 0.1253 ug/l

Weight: 1/y

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.36	0.0001	P	19.6	
2	☐	5.000	4.928	132888.38	0.0268	P	1.6	-1.4
3	☐	5.000	4.886	124206.53	0.0266	P	0.4	-2.3
4	☐	25.000	24.875	658683.38	0.1348	P	0.9	-0.5
5	☐	50.000	50.864	1342308.52	0.2756	A	0.5	1.7
6	☐	100.000	99.468	2525453.76	0.5389	A	0.5	-0.5
7	☐			2203.71	0.0005	P	81.1	
8	☐			770.05	0.0002	P	13.1	
9	☐			1340.11	0.0003	P	10.7	
10	☐			2190.25	0.0005	P	9.6	

y = 0.005417 * x + 8.247586E-005

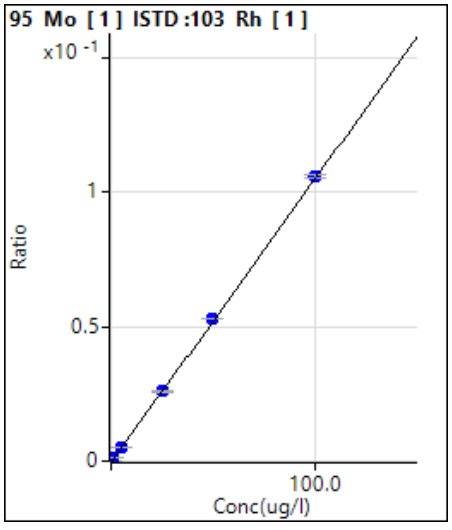
R = 0.9999

DL = 0.009257 ug/l

BEC = 0.01522 ug/l

Weight: 1/y

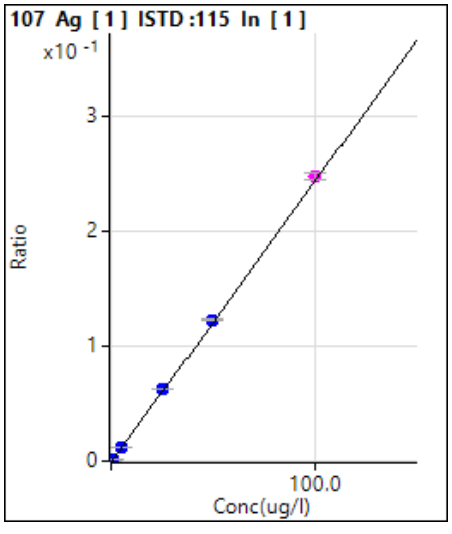
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	63.33	0.0000	P	40.4	
2	☐	1.000	0.964	5097.65	0.0010	P	5.6	-3.6
3	☐	5.000	4.694	23224.27	0.0050	P	4.6	-6.1
4	☐	25.000	24.715	127330.57	0.0261	P	2.9	-1.1
5	☐	50.000	50.178	257769.64	0.0529	P	0.4	0.4
6	☐	100.000	100.475	496696.96	0.1060	P	1.0	0.5
7	☐			1443.46	0.0003	P	43.1	
8	☐			270.01	0.0001	P	34.4	
9	☐			186.68	0.0000	P	18.6	
10	☐			183.34	0.0000	P	19.3	

y = 0.001055 * x + 1.146796E-005
R = 1.0000
DL = 0.01474 ug/l
BEC = 0.01087 ug/l

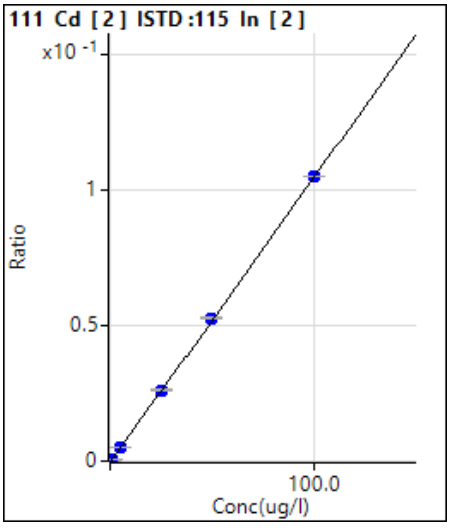
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.009	30.00	0.0000	P	173.2	
2	☐	0.500	0.500	6318.14	0.0012	P	2.9	-0.1
3	☐	5.000	4.759	57347.77	0.0116	P	0.4	-4.8
4	☐	25.000	25.417	320308.70	0.0621	P	0.2	1.7
5	☐	50.000	50.194	634139.80	0.1227	P	1.3	0.4
6	☐	100.000	101.261	1230836.23	0.2475	M	2.2	1.3
7	☐			1336.83	0.0003	P	101.5	
8	☐			60.00	0.0000	P	43.5	
9	☐			40.00	0.0000	P	99.1	
10	☐			60.00	0.0000	P	58.9	

y = 0.0024 * x - 1.4854E-005
R = 1.0000
DL = 0.01286 ug/l
BEC = -0.006077 ug/l

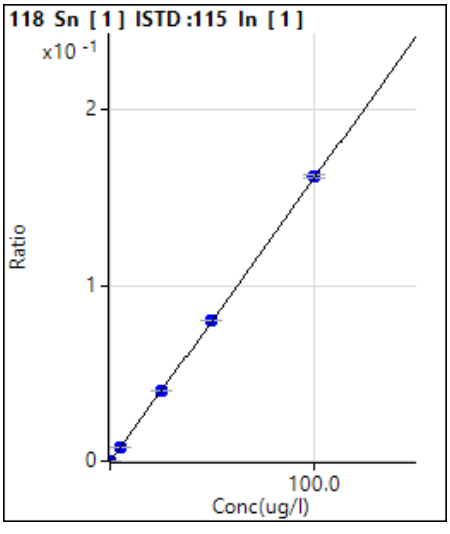
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11.10	0.0000	P	17.4	
2	☐	0.500	0.484	498.57	0.0005	P	16.0	-3.2
3	☐	5.000	4.895	4731.41	0.0052	P	2.2	-2.1
4	☐	25.000	24.787	24249.78	0.0261	P	2.0	-0.9
5	☐	50.000	50.174	49088.64	0.0528	P	0.5	0.3
6	☐	100.000	99.921	95944.11	0.1052	P	0.3	-0.1
7	☐			18.85	0.0000	P	19.6	
8	☐			11.10	0.0000	P	46.3	
9	☐			8.88	0.0000	P	23.0	
10	☐			11.10	0.0000	P	63.0	

y = 0.0011 * x + 1.1483E-005
R = 1.0000
DL = 0.005717 ug/l
BEC = 0.01091 ug/l

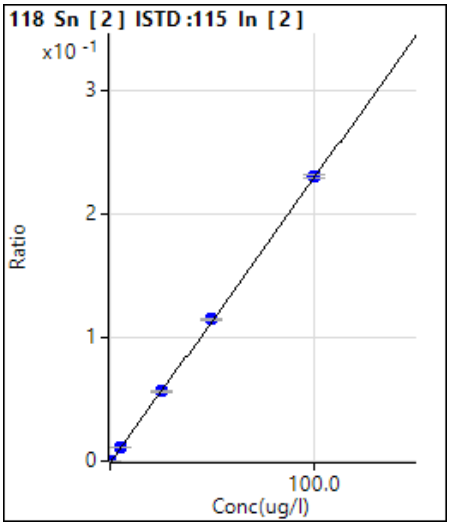
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1593.46	0.0003	P	11.4	
2	☐	5.000	4.671	41034.17	0.0078	P	0.8	-6.6
3	☐			39958.11	0.0081	P	0.4	
4	☐	25.000	24.539	205520.67	0.0398	P	1.5	-1.8
5	☐	50.000	49.604	414701.01	0.0802	P	0.5	-0.8
6	☐	100.000	100.330	805315.85	0.1620	P	1.1	0.3
7	☐			16509.35	0.0033	P	17.9	
8	☐			4117.34	0.0008	P	2.0	
9	☐			2653.67	0.0005	P	8.3	
10	☐			1843.52	0.0004	P	6.0	

y = 0.0016 * x + 3.0678E-004
R = 1.0000
DL = 0.06484 ug/l
BEC = 0.1904 ug/l

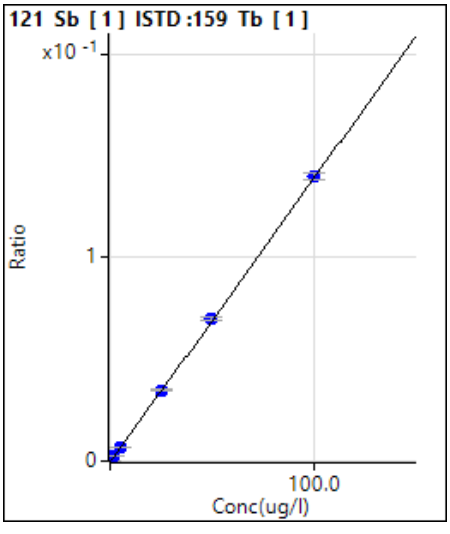
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.353	474.46	0.0005	P	2.9	
2	☐	5.000	5.046	10827.15	0.0113	P	2.4	0.9
3	☐			10677.04	0.0117	P	2.3	
4	☐	25.000	24.547	52282.90	0.0563	P	0.6	-1.8
5	☐	50.000	49.887	106594.15	0.1147	P	0.3	-0.2
6	☐	100.000	100.168	210358.74	0.2306	P	0.6	0.2
7	☐			4026.12	0.0044	P	9.6	
8	☐			1276.73	0.0014	P	7.6	
9	☐			765.59	0.0008	P	9.0	
10	☐			493.35	0.0005	P	11.5	

y = 0.002306 * x - 3.212064E-004
R = 1.0000
DL = 0.01869 ug/l
BEC = -0.1393 ug/l

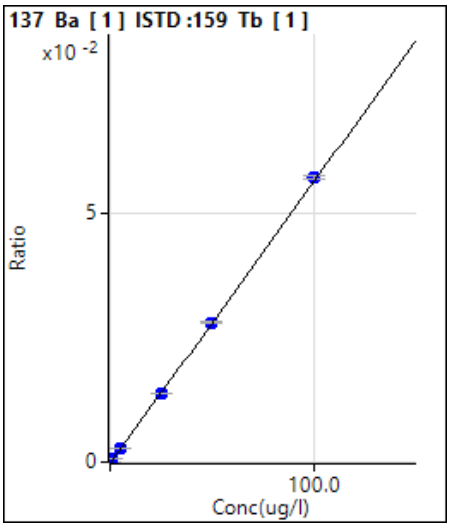
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.006	633.37	0.0001	P	26.6	
2	☐	2.000	1.873	19652.94	0.0027	P	1.3	-6.4
3	☐	5.000	4.845	46877.89	0.0068	P	2.0	-3.1
4	☐	25.000	24.849	248295.17	0.0348	P	2.3	-0.6
5	☐	50.000	50.234	503567.28	0.0702	P	1.9	0.5
6	☐	100.000	100.209	965432.90	0.1400	P	2.3	0.2
7	☐			12686.16	0.0018	P	40.7	
8	☐			2413.62	0.0003	P	17.0	
9	☐			1656.82	0.0002	P	10.2	
10	☐			1496.80	0.0002	P	11.9	

y = 0.001396 * x + 7.953962E-005
R = 1.0000
DL = 0.05039 ug/l
BEC = 0.05697 ug/l

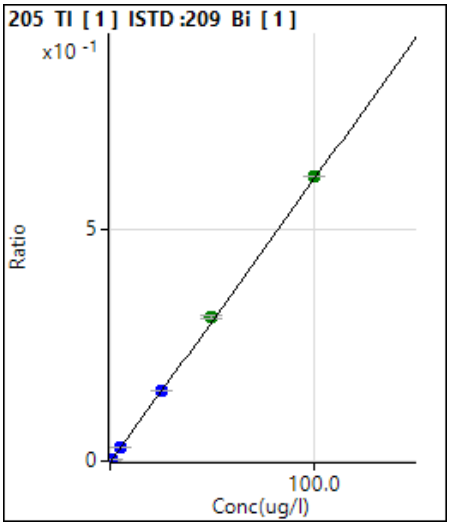
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	47.2	
2	☐	1.000	1.009	4174.06	0.0006	P	2.5	0.9
3	☐	5.000	4.856	18812.00	0.0027	P	1.3	-2.9
4	☐	25.000	24.493	98776.37	0.0138	P	1.3	-2.0
5	☐	50.000	49.578	200793.32	0.0280	P	1.0	-0.8
6	☐	100.000	101.095	393701.24	0.0571	P	1.5	1.1
7	☐			520.03	0.0001	P	38.9	
8	☐			146.67	0.0000	P	22.3	
9	☐			243.34	0.0000	P	7.6	
10	☐			433.36	0.0001	P	11.9	

y = 5.647242E-004 * x + 2.643194E-006
R = 0.9999
DL = 0.006906 ug/l
BEC = 0.004681 ug/l

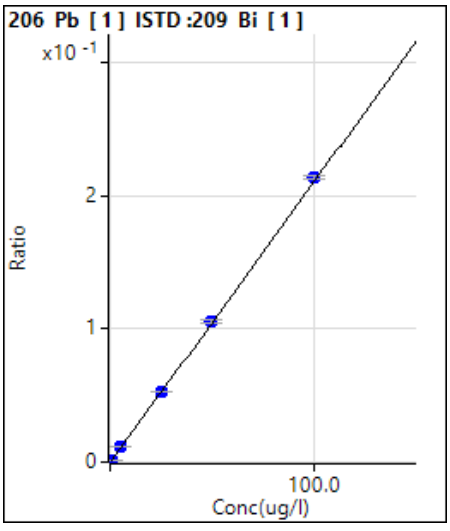
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	260.01	0.0001	P	11.0	
2	☐	0.500	0.489	13022.84	0.0031	P	1.7	-2.2
3	☐	5.000	4.834	118757.49	0.0297	P	0.4	-3.3
4	☐	25.000	24.789	633026.06	0.1520	P	1.3	-0.8
5	☐	50.000	50.740	1296502.25	0.3111	A	2.0	1.5
6	☐	100.000	100.603	2502881.73	0.6169	A	0.2	0.6
7	☐			4100.81	0.0010	P	43.7	
8	☐			810.05	0.0002	P	5.1	
9	☐			473.36	0.0001	P	17.6	
10	☐			400.02	0.0001	P	12.5	

y = 0.0061 * x + 5.8083E-005
R = 1.0000
DL = 0.003367 ug/l
BEC = 0.009474 ug/l

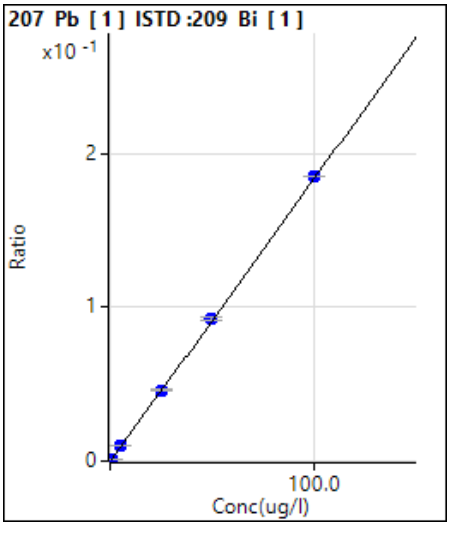
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.013	2980.41	0.0007	P	11.3	
2	☐	0.500	0.502	7668.94	0.0018	P	1.2	0.3
3	☐	5.000	4.922	44390.98	0.0111	P	2.0	-1.6
4	☐	25.000	24.854	220723.31	0.0530	P	1.4	-0.6
5	☐	50.000	49.868	440091.71	0.1056	P	1.5	-0.3
6	☐	100.000	101.201	866793.71	0.2136	P	1.3	1.2
7	☐			3537.25	0.0009	P	20.5	
8	☐			2990.41	0.0007	P	13.0	
9	☐			3090.44	0.0008	P	1.5	
10	☐			3343.86	0.0008	P	1.4	

y = 0.0021 * x + 7.4459E-004
R = 1.0000
DL = 0.1159 ug/l
BEC = 0.354 ug/l

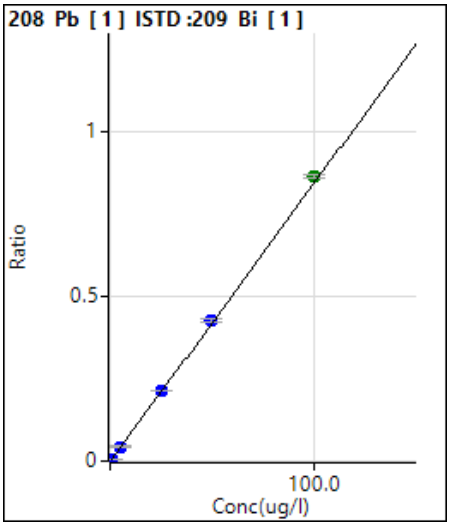
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.019	2610.34	0.0006	P	4.0	
2	☐	0.500	0.481	6284.90	0.0015	P	11.1	-3.8
3	☐	5.000	4.864	38089.95	0.0095	P	0.5	-2.7
4	☐	25.000	24.733	191607.82	0.0460	P	1.5	-1.1
5	☐	50.000	49.918	384510.16	0.0923	P	2.5	-0.2
6	☐	100.000	100.494	751438.48	0.1852	P	0.6	0.5
7	☐			3063.77	0.0008	P	10.6	
8	☐			2530.32	0.0006	P	9.5	
9	☐			2650.35	0.0006	P	2.2	
10	☐			2937.08	0.0007	P	6.0	

y = 0.001837 * x + 5.902301E-004
R = 1.0000
DL = 0.0408 ug/l
BEC = 0.3213 ug/l

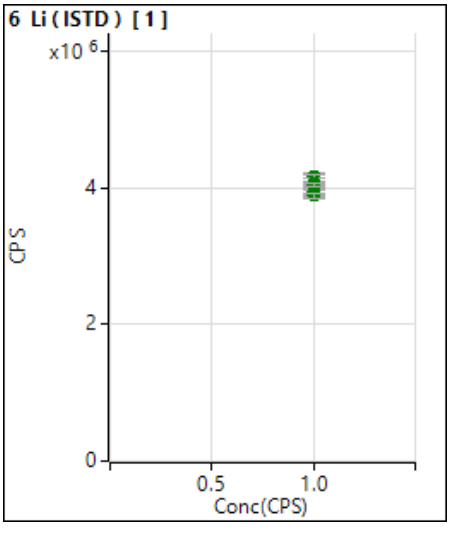
Weight: 1/y
Min Conc: <None>



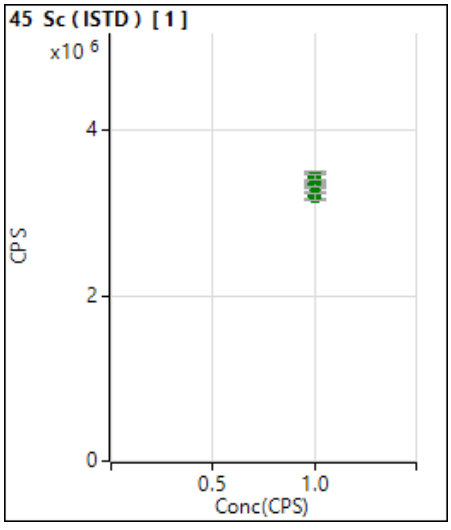
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.004	11995.72	0.0029	P	1.6	
2	☐	0.500	0.476	29238.93	0.0069	P	2.5	-4.8
3	☐	5.000	4.897	176543.89	0.0441	P	0.8	-2.1
4	☐	25.000	24.828	883483.56	0.2122	P	1.2	-0.7
5	☐	50.000	50.237	1776818.30	0.4264	P	1.8	0.5
6	☐	100.000	102.070	3503673.36	0.8635	A	0.7	2.1
7	☐			13986.53	0.0034	P	15.0	
8	☐			11869.02	0.0028	P	6.0	
9	☐			12285.81	0.0030	P	4.0	
10	☐			13309.55	0.0033	P	1.6	

y = 0.0084 * x + 0.0028
R = 1.0000
DL = 0.01684 ug/l
BEC = 0.3379 ug/l

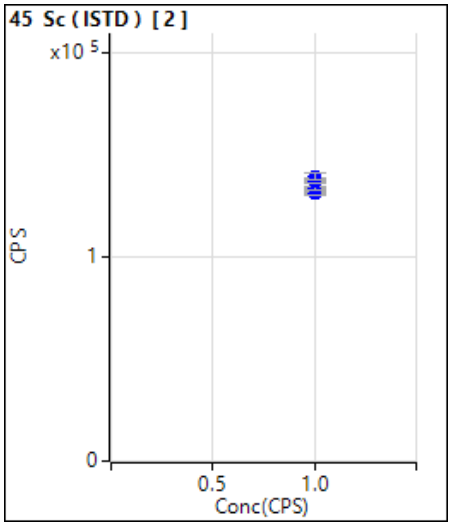
Weight: 1/SD^2
Min Conc: <None>



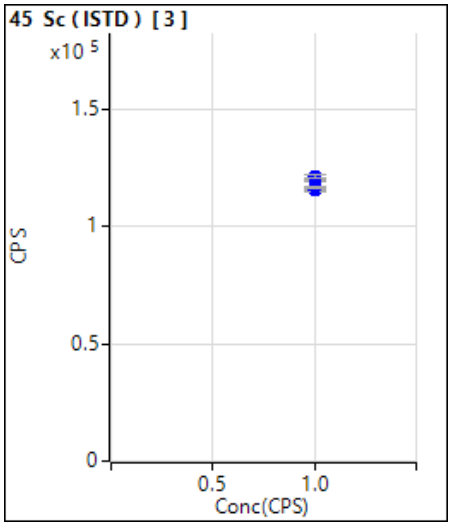
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4159337.30		A	3.0	
2	☐	1.000		4174236.14		A	1.6	
3	☐	1.000		3943082.48		A	4.2	
4	☐	1.000		4081874.92		A	1.1	
5	☐	1.000		4052658.06		A	0.7	
6	☐	1.000		3942715.63		A	2.0	
7	☐	1.000		3888667.15		A	1.6	
8	☐	1.000		4027127.26		A	0.6	
9	☐	1.000		4037299.55		A	2.5	
10	☐	1.000		4044945.61		A	1.3	



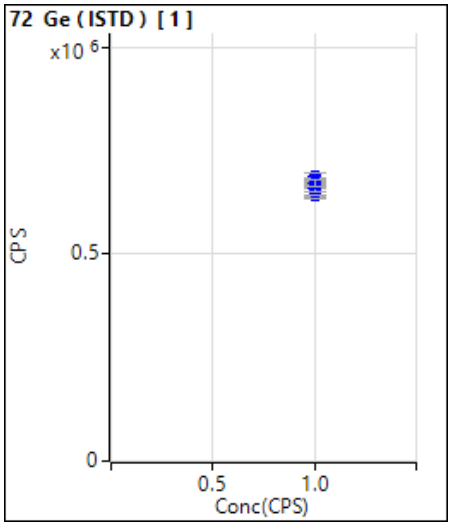
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3411551.72		A	3.9	
2	☐	1.000		3443512.86		A	3.1	
3	☐	1.000		3230936.20		A	3.5	
4	☐	1.000		3372766.93		A	0.7	
5	☐	1.000		3385461.09		A	0.7	
6	☐	1.000		3222337.56		A	2.7	
7	☐	1.000		3195226.30		A	2.8	
8	☐	1.000		3330576.93		A	1.9	
9	☐	1.000		3360787.24		A	2.0	
10	☐	1.000		3424858.91		A	1.8	



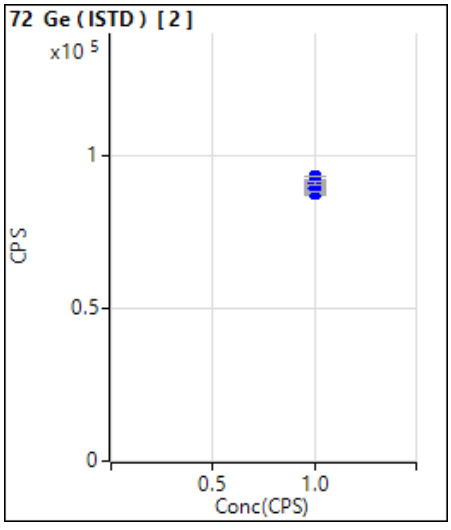
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		137780.11		P	0.4	
2	☐	1.000		137512.91		P	1.8	
3	☐	1.000		131745.61		P	0.4	
4	☐	1.000		133291.94		P	0.8	
5	☐	1.000		134152.16		P	0.5	
6	☐	1.000		132120.12		P	1.8	
7	☐	1.000		131311.43		P	1.3	
8	☐	1.000		133714.39		P	1.2	
9	☐	1.000		137349.36		P	1.5	
10	☐	1.000		139638.31		P	1.8	



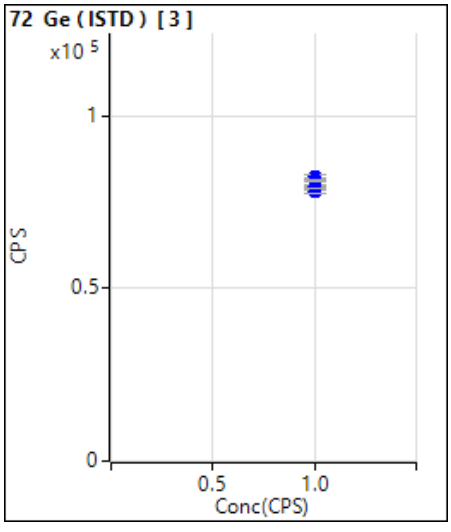
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		120445.91		P	0.3	
2	☐	1.000		120330.90		P	1.1	
3	☐	1.000		115864.02		P	0.7	
4	☐	1.000		116428.99		P	0.3	
5	☐	1.000		116667.32		P	0.5	
6	☐	1.000		115640.05		P	1.2	
7	☐	1.000		115932.27		P	1.1	
8	☐	1.000		116971.29		P	0.3	
9	☐	1.000		120291.51		P	0.8	
10	☐	1.000		121580.73		P	0.7	



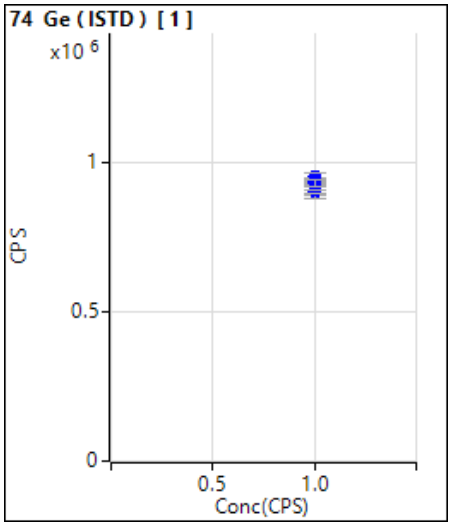
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		678258.34		P	5.5	
2	☐	1.000		687496.47		P	1.9	
3	☐	1.000		641820.76		P	3.2	
4	☐	1.000		673983.22		P	1.8	
5	☐	1.000		677786.16		P	2.0	
6	☐	1.000		651700.85		P	3.7	
7	☐	1.000		650240.60		P	2.4	
8	☐	1.000		664907.54		P	2.5	
9	☐	1.000		658408.83		P	2.9	
10	☐	1.000		670836.55		P	2.6	



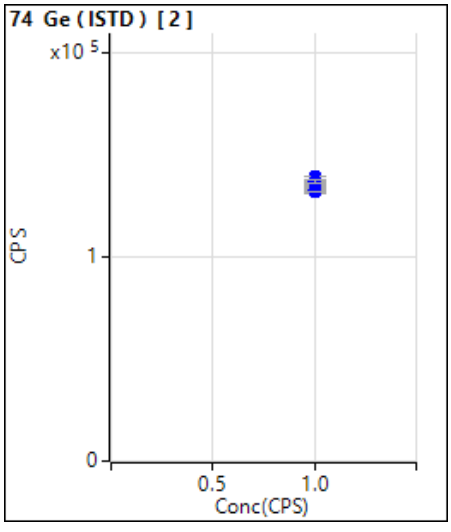
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		93163.17		P	0.5	
2	☐	1.000		91136.44		P	1.8	
3	☐	1.000		88712.05		P	0.4	
4	☐	1.000		88675.35		P	0.6	
5	☐	1.000		89725.26		P	1.4	
6	☐	1.000		87795.05		P	1.7	
7	☐	1.000		88307.69		P	1.6	
8	☐	1.000		89391.53		P	2.2	
9	☐	1.000		90509.71		P	1.3	
10	☐	1.000		90992.47		P	1.2	



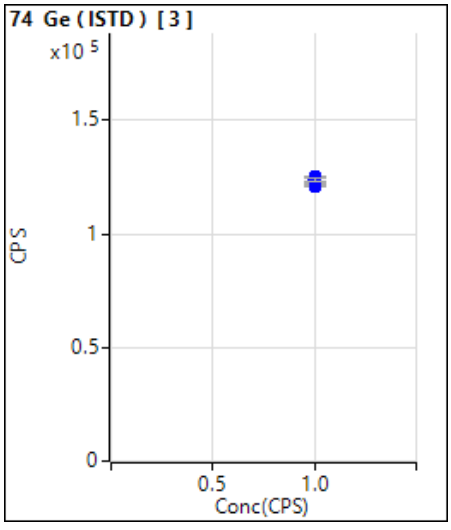
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		81811.19		P	0.8	
2	☐	1.000		82573.89		P	1.0	
3	☐	1.000		79243.05		P	1.5	
4	☐	1.000		79596.86		P	0.1	
5	☐	1.000		79949.83		P	0.4	
6	☐	1.000		78093.05		P	1.5	
7	☐	1.000		79829.24		P	0.7	
8	☐	1.000		79490.73		P	1.0	
9	☐	1.000		81790.93		P	0.7	
10	☐	1.000		81151.13		P	0.7	



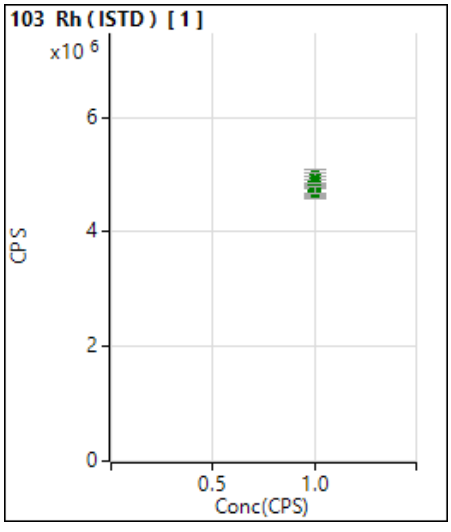
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		943810.32		P	4.4	
2	☐	1.000		954376.24		P	2.3	
3	☐	1.000		899989.08		P	4.1	
4	☐	1.000		940934.05		P	1.7	
5	☐	1.000		942863.61		P	1.7	
6	☐	1.000		908599.00		P	4.4	
7	☐	1.000		906535.43		P	2.8	
8	☐	1.000		934872.46		P	2.3	
9	☐	1.000		919221.10		P	2.7	
10	☐	1.000		931534.73		P	2.6	



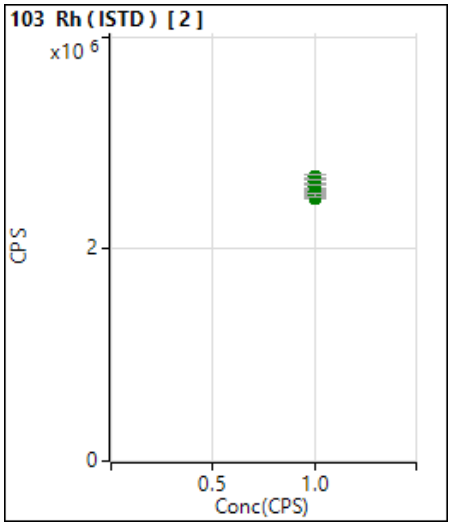
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		139601.32		P	0.6	
2	☐	1.000		138249.04		P	1.5	
3	☐	1.000		134186.92		P	0.9	
4	☐	1.000		134307.89		P	1.6	
5	☐	1.000		134619.38		P	1.1	
6	☐	1.000		131677.43		P	0.9	
7	☐	1.000		132777.61		P	1.3	
8	☐	1.000		135401.62		P	1.5	
9	☐	1.000		135890.91		P	0.8	
10	☐	1.000		136843.95		P	1.4	



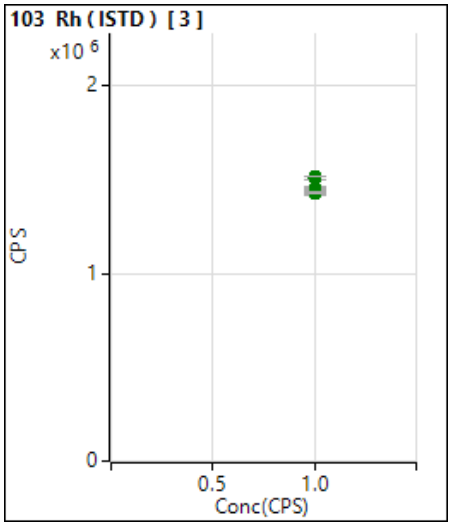
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		125223.21		P	0.6	
2	☐	1.000		125309.50		P	0.3	
3	☐	1.000		121950.04		P	0.4	
4	☐	1.000		120892.27		P	0.2	
5	☐	1.000		122150.04		P	1.0	
6	☐	1.000		121267.21		P	0.8	
7	☐	1.000		121048.81		P	0.1	
8	☐	1.000		121742.77		P	0.5	
9	☐	1.000		122636.76		P	0.9	
10	☐	1.000		123870.50		P	0.8	



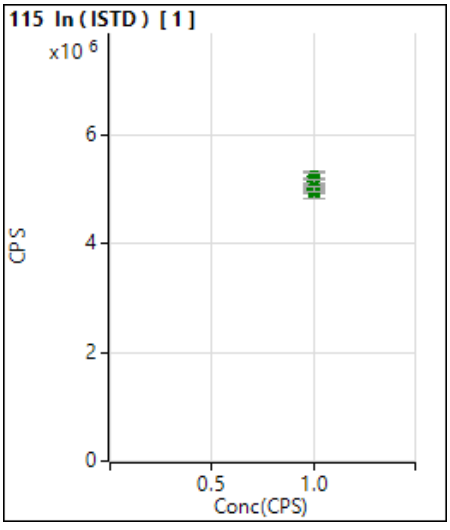
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4968427.12		A	4.7	
2	☐	1.000		4962578.78		A	2.7	
3	☐	1.000		4677535.97		A	4.0	
4	☐	1.000		4885624.09		A	2.8	
5	☐	1.000		4869982.32		A	2.0	
6	☐	1.000		4686263.06		A	2.8	
7	☐	1.000		4686478.26		A	2.6	
8	☐	1.000		4823432.32		A	1.4	
9	☐	1.000		4727888.99		A	2.5	
10	☐	1.000		4735050.76		A	2.4	



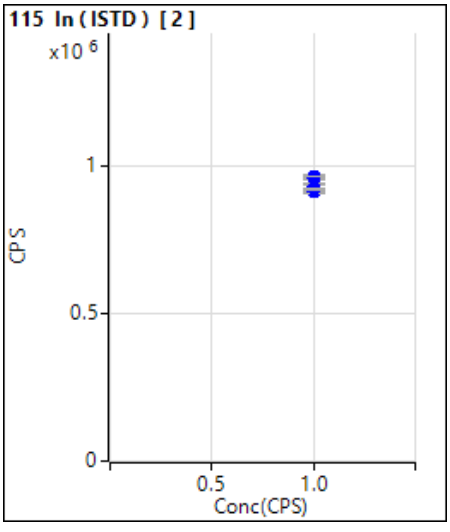
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2685171.42		A	1.0	
2	☐	1.000		2634269.55		A	1.7	
3	☐	1.000		2547773.30		A	0.4	
4	☐	1.000		2562481.50		A	1.2	
5	☐	1.000		2583303.51		A	1.3	
6	☐	1.000		2479028.51		A	0.8	
7	☐	1.000		2502971.57		A	0.3	
8	☐	1.000		2544364.00		A	1.5	
9	☐	1.000		2516723.23		A	0.9	
10	☐	1.000		2506948.37		A	1.4	



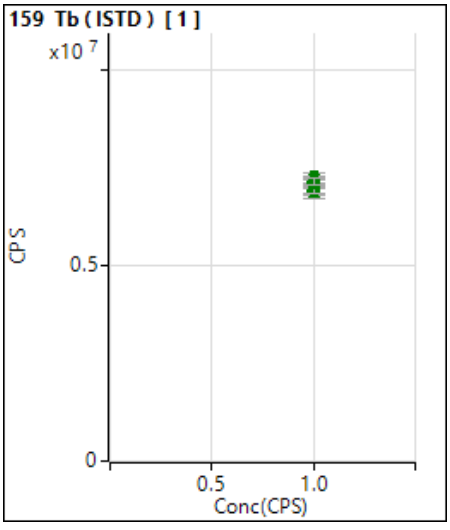
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1508056.40		A	0.9	
2	☐	1.000		1519306.57		A	0.5	
3	☐	1.000		1444362.83		A	1.1	
4	☐	1.000		1457024.21		A	0.3	
5	☐	1.000		1447794.73		A	1.9	
6	☐	1.000		1428888.62		A	0.9	
7	☐	1.000		1440730.33		A	0.2	
8	☐	1.000		1444378.59		A	0.7	
9	☐	1.000		1438531.30		A	0.7	
10	☐	1.000		1430779.39		A	1.0	



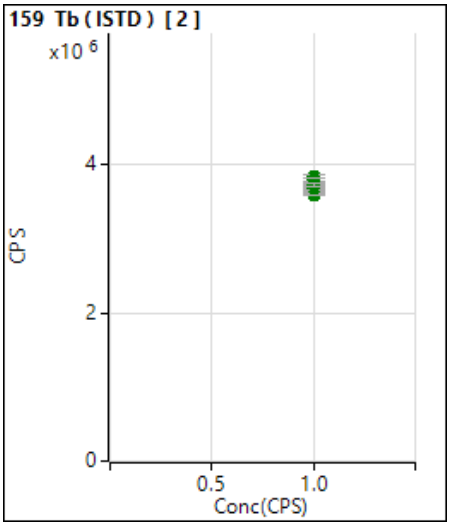
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5211201.50		A	4.5	
2	☐	1.000		5238344.63		A	2.2	
3	☐	1.000		4936116.22		A	4.2	
4	☐	1.000		5156960.69		A	2.0	
5	☐	1.000		5168739.28		A	1.8	
6	☐	1.000		4971432.56		A	2.4	
7	☐	1.000		5005296.13		A	3.0	
8	☐	1.000		5139643.55		A	1.0	
9	☐	1.000		5022480.41		A	1.4	
10	☐	1.000		4994596.94		A	1.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		963692.10		P	0.8	
2	☐	1.000		957029.47		P	1.2	
3	☐	1.000		916303.51		P	0.7	
4	☐	1.000		929078.46		P	1.2	
5	☐	1.000		929282.96		P	0.7	
6	☐	1.000		912112.45		P	1.2	
7	☐	1.000		920440.34		P	1.1	
8	☐	1.000		938650.78		P	0.8	
9	☐	1.000		929569.83		P	1.8	
10	☐	1.000		921243.24		P	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		7190548.02		A	3.4	
2	☐	1.000		7292359.68		A	2.6	
3	☐	1.000		6852645.73		A	4.3	
4	☐	1.000		7139392.60		A	1.4	
5	☐	1.000		7170364.27		A	1.6	
6	☐	1.000		6894625.73		A	2.2	
7	☐	1.000		6950642.81		A	2.3	
8	☐	1.000		7247990.93		A	1.6	
9	☐	1.000		7134708.64		A	1.7	
10	☐	1.000		7158645.73		A	2.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3847673.60		A	1.4	
2	☐	1.000		3802921.52		A	1.0	
3	☐	1.000		3666202.21		A	0.8	
4	☐	1.000		3661528.05		A	0.7	
5	☐	1.000		3682239.86		A	1.2	
6	☐	1.000		3597774.72		A	0.7	
7	☐	1.000		3682038.74		A	1.2	
8	☐	1.000		3734961.66		A	0.8	
9	☐	1.000		3734339.99		A	0.1	
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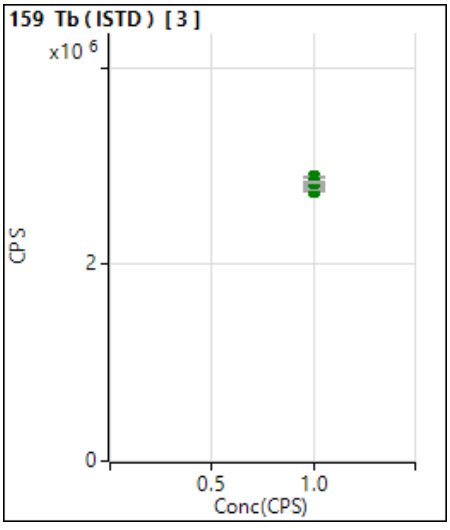
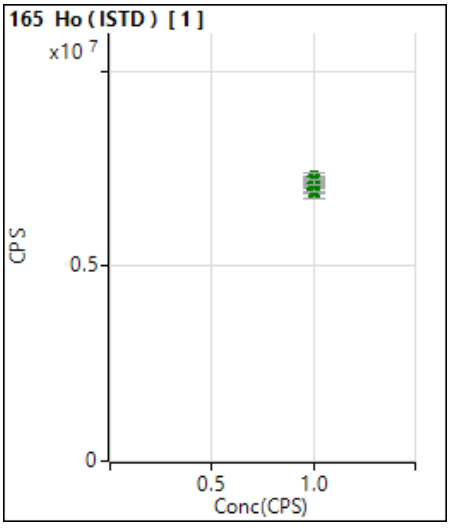
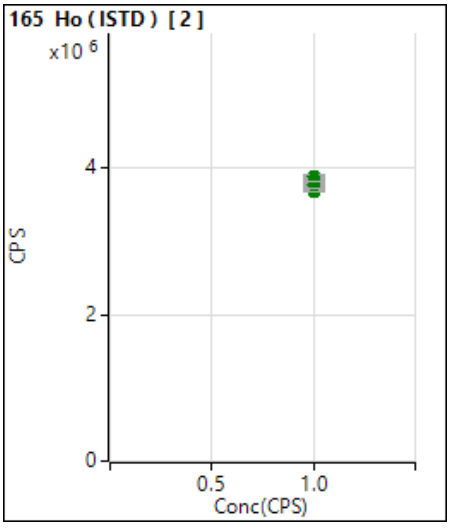


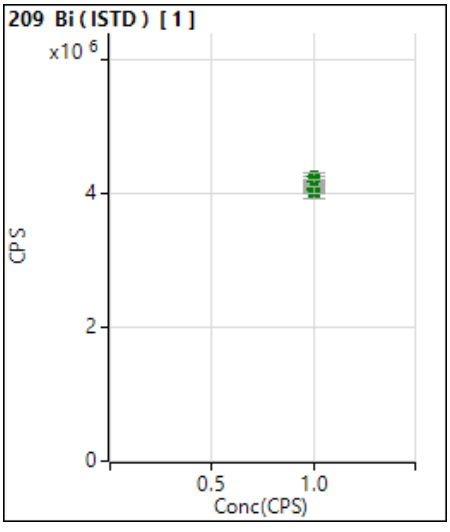
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2886720.51		A	1.0	
2	☐	1.000		2895344.61		A	0.1	
3	☐	1.000		2766758.50		A	0.7	
4	☐	1.000		2760761.35		A	0.6	
5	☐	1.000		2763252.81		A	1.0	
6	☐	1.000		2735272.25		A	0.4	
7	☐	1.000		2797478.22		A	0.5	
8	☐	1.000		2764884.06		A	0.3	
9	☐	1.000		2827155.58		A	0.9	
10	☐	1.000		2834943.01		A	0.8	



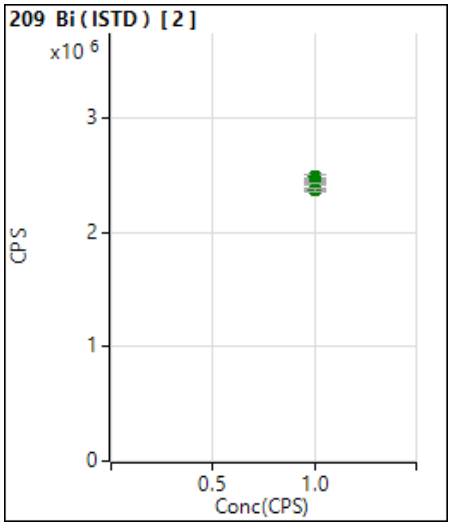
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		7195399.48		A	3.4	
2	☐	1.000		7296989.68		A	2.9	
3	☐	1.000		6856300.52		A	3.6	
4	☐	1.000		7140742.60		A	0.9	
5	☐	1.000		7142936.77		A	0.8	
6	☐	1.000		6948281.14		A	2.4	
7	☐	1.000		6974312.81		A	1.9	
8	☐	1.000		7174809.69		A	1.6	
9	☐	1.000		7115100.73		A	1.7	
10	☐	1.000		7141259.69		A	2.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3872431.52		A	0.6	
2	☐	1.000		3883309.43		A	0.8	
3	☐	1.000		3745378.46		A	0.3	
4	☐	1.000		3735473.32		A	0.5	
5	☐	1.000		3784163.04		A	1.0	
6	☐	1.000		3684072.21		A	0.8	
7	☐	1.000		3756538.46		A	1.4	
8	☐	1.000		3839079.01		A	0.2	
9	☐	1.000		3844844.43		A	0.9	
10	☐	1.000		3813028.18		A	0.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4167481.19		A	4.1	
2	☐	1.000		4260712.54		A	2.1	
3	☐	1.000		3999159.73		A	3.4	
4	☐	1.000		4163520.14		A	0.9	
5	☐	1.000		4166607.44		A	0.7	
6	☐	1.000		4057544.94		A	2.6	
7	☐	1.000		4087064.94		A	2.3	
8	☐	1.000		4188100.77		A	1.2	
9	☐	1.000		4086993.59		A	2.2	
10	☐	1.000		4053932.75		A	2.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2492211.22		A	1.0	
2	☐	1.000		2493042.89		A	0.9	
3	☐	1.000		2418297.33		A	0.5	
4	☐	1.000		2439127.06		A	0.7	
5	☐	1.000		2455176.57		A	1.2	
6	☐	1.000		2383396.57		A	0.6	
7	☐	1.000		2428693.31		A	0.9	
8	☐	1.000		2456482.89		A	0.4	
9	☐	1.000		2425555.67		A	0.3	
10	☐	1.000		2370497.27		A	1.0	

Quantitation Report

File Name	001CALB.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 11:54
Sample Name	STDA 4
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.016	ug/l	74.97	536.02	1.773E-04	Pulse	0.25	3
B			1	-0.610	ug/l	-1.67	1,542.33	5.100E-04	Pulse	0.15	3
Ca			1	-3.320	ug/l	-30.88	9,996.85	3.673E-03	Pulse	0.10	3
Sr			1	-0.005	ug/l	-24.52	366.69	1.049E-04	Pulse	0.10	3
Mo			1	0.054	ug/l	9.83	543.37	1.555E-04	Pulse	0.10	3
Ag			1	0.000	ug/l	204.22	30.00	8.389E-06	Pulse	0.10	3
Sn			1	0.528	ug/l	8.14	9,086.29	2.551E-03	Pulse	0.10	3
Sb			1	0.005	ug/l	118.33	433.36	9.025E-05	Pulse	0.10	3
Ba			1	-0.043	ug/l	-1.68	63.33	1.315E-05	Pulse	0.10	3
Tl			1	0.000	ug/l	2001.28	173.34	5.793E-05	Pulse	0.10	3
Pb			1	-0.014	ug/l	-50.19	2,043.55	6.830E-04	Pulse	0.10	3
Pb			1	0.007	ug/l	128.00	1,783.51	5.961E-04	Pulse	0.10	3
Pb			1	-0.007	ug/l	-67.91	8,214.54	2.745E-03	Pulse	0.10	3
Na			2	-1.237	ug/l	-2.37	2,853.61	2.612E-02	Pulse	0.30	3
Mg			2	0.203	ug/l	43.03	872.26	7.985E-03	Pulse	0.30	3
Al			2	0.892	ug/l	30.85	481.12	4.405E-03	Pulse	0.30	3
K			2	-0.701	ug/l	-115.26	13,247.58	1.213E-01	Pulse	0.30	3
Ca			2	-2.138	ug/l	-40.77	48.89	4.473E-04	Pulse	0.30	3
Ti			2	0.267	ug/l	35.56	53.33	4.878E-04	Pulse	0.30	3
V			2	0.032	ug/l	87.79	531.13	4.864E-03	Pulse	0.30	3
Cr			2	0.615	ug/l	11.23	3,519.31	3.222E-02	Pulse	0.30	3
Mn			2	-0.002	ug/l	-322.55	175.56	1.607E-03	Pulse	0.30	3
Fe			2	19.288	ug/l	13.42	111,076.04	1.017E+00	Pulse	0.30	3
Co			2	0.001	ug/l	290.28	51.92	4.748E-04	Pulse	0.30	3
Ni			2	0.052	ug/l	102.55	1,115.61	1.021E-02	Pulse	0.30	3
Cu			2	0.003	ug/l	558.25	1,311.18	1.201E-02	Pulse	0.30	3
Zn			2	-1.105	ug/l	-13.46	6,260.15	5.731E-02	Pulse	0.30	3
As			2	-0.014	ug/l	-54.79	13.67	1.250E-04	Pulse	1.00	3
Cd			2	0.000	ug/l	-2073.52	5.52	8.213E-06	Pulse	0.30	3
Sn			2	1.063	ug/l	8.59	3,349.29	4.995E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.020	ug/l	53.98	5.40	5.854E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,024,026.42	0.78	100.0	Analog	0.10	3
1	Sc		2,723,970.38	1.92	100.0	Analog	0.10	3
1	Ge		527,525.82	0.81	100.0	Pulse	0.10	3
1	Ge		729,388.11	0.90	100.0	Pulse	0.10	3
1	Rh		3,495,938.70	1.47	100.0	Analog	0.10	3
1	In		3,559,276.72	1.50	100.0	Analog	0.10	3
1	Tb		4,812,628.16	1.55	100.0	Analog	0.10	3
1	Ho		4,739,147.43	1.15	100.0	Analog	0.10	3
1	Bi		2,992,076.20	0.10	100.0	Analog	0.10	3
2	Sc		109,233.48	0.63	100.0	Pulse	0.30	3
2	Ge		66,742.43	0.28	100.0	Pulse	0.30	3
2	Ge		100,547.26	1.14	100.0	Pulse	0.30	3
2	Rh		1,725,221.56	0.66	100.0	Analog	0.30	3
2	In		670,314.04	0.83	100.0	Pulse	0.30	3
2	Tb		2,366,471.02	0.96	100.0	Analog	0.30	3
2	Ho		2,382,469.98	1.08	100.0	Analog	0.30	3
2	Bi		1,680,637.26	0.73	100.0	Analog	0.30	3
3	Sc		99,976.26	0.53	100.0	Pulse	0.30	3
3	Ge		60,792.64	0.81	100.0	Pulse	0.30	3
3	Ge		92,226.59	0.30	100.0	Pulse	0.30	3
3	Rh		998,751.80	0.52	100.0	Pulse	0.30	3
3	Tb		1,737,374.34	1.31	100.0	Analog	0.30	3

Quantitation Report

File Name	002CALB.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 11:57
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.012	ug/l	101.93	502.68	1.668E-04	Pulse	0.25	3
B			1	-0.526	ug/l	-4.86	2,029.06	6.727E-04	Pulse	0.15	3
Ca			1	-0.444	ug/l	-80.82	12,678.72	4.668E-03	Pulse	0.10	3
Sr			1	0.001	ug/l	267.94	640.04	1.843E-04	Pulse	0.10	3
Mo			1	0.005	ug/l	112.23	113.34	3.268E-05	Pulse	0.10	3
Ag			1	0.001	ug/l	139.88	43.33	1.216E-05	Pulse	0.10	3
Sn			1	0.000	ug/l	11441.75	1,676.82	4.704E-04	Pulse	0.10	3
Sb			1	-0.002	ug/l	-189.28	306.68	6.446E-05	Pulse	0.10	3
Ba			1	0.014	ug/l	47.91	430.02	9.043E-05	Pulse	0.10	3
Tl			1	-0.001	ug/l	-113.92	133.34	4.512E-05	Pulse	0.10	3
Pb			1	-0.010	ug/l	-180.37	2,083.56	7.038E-04	Pulse	0.10	3
Pb			1	0.016	ug/l	75.80	1,880.18	6.352E-04	Pulse	0.10	3
Pb			1	0.000	ug/l	-5382.58	8,497.96	2.871E-03	Pulse	0.10	3
Na			2	-0.241	ug/l	-17.41	3,652.66	3.488E-02	Pulse	0.30	3
Mg			2	0.241	ug/l	22.36	853.36	8.149E-03	Pulse	0.30	3
Al			2	-0.265	ug/l	-163.51	282.23	2.697E-03	Pulse	0.30	3
K			2	0.956	ug/l	47.54	13,224.26	1.263E-01	Pulse	0.30	3
Ca			2	-1.405	ug/l	-179.06	58.89	5.644E-04	Pulse	0.30	3
Ti			2	-0.014	ug/l	-442.37	17.78	1.695E-04	Pulse	0.30	3
V			2	-0.003	ug/l	-152.01	370.01	3.533E-03	Pulse	0.30	3
Cr			2	0.001	ug/l	800.85	269.67	2.576E-03	Pulse	0.30	3
Mn			2	0.001	ug/l	182.51	176.67	1.687E-03	Pulse	0.30	3
Fe			2	-2.007	ug/l	-18.91	16,854.37	1.609E-01	Pulse	0.30	3
Co			2	0.001	ug/l	89.11	56.63	5.408E-04	Pulse	0.30	3
Ni			2	0.081	ug/l	43.24	1,132.28	1.081E-02	Pulse	0.30	3
Cu			2	0.048	ug/l	15.20	1,532.32	1.463E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.348	ug/l	-23.44	6,719.23	6.416E-02	Pulse	0.30	3
As			2	-0.009	ug/l	-132.81	15.67	1.496E-04	Pulse	1.00	3
Cd			2	0.001	ug/l	686.80	6.66	1.004E-05	Pulse	0.30	3
Sn			2	0.152	ug/l	5.85	511.13	7.678E-04	Pulse	0.30	3
Se			3	-0.016	ug/l	-15.96	2.60	2.783E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,017,405.49	0.90	100.0	Analog	0.10	3
1	Sc		2,716,420.17	1.39	100.0	Analog	0.10	3
1	Ge		531,319.44	0.97	100.0	Pulse	0.10	3
1	Ge		725,816.45	0.45	100.0	Pulse	0.10	3
1	Rh		3,467,710.47	1.64	100.0	Analog	0.10	3
1	In		3,566,461.94	0.55	100.0	Analog	0.10	3
1	Tb		4,752,647.53	0.85	100.0	Analog	0.10	3
1	Ho		4,710,326.18	2.15	100.0	Analog	0.10	3
1	Bi		2,961,328.18	1.20	100.0	Analog	0.10	3
2	Sc		104,725.71	0.78	100.0	Pulse	0.30	3
2	Ge		66,656.35	0.77	100.0	Pulse	0.30	3
2	Ge		100,408.69	0.95	100.0	Pulse	0.30	3
2	Rh		1,727,404.58	0.76	100.0	Analog	0.30	3
2	In		665,764.80	0.85	100.0	Pulse	0.30	3
2	Tb		2,369,700.18	0.66	100.0	Analog	0.30	3
2	Ho		2,362,307.13	0.36	100.0	Analog	0.30	3
2	Bi		1,649,343.93	0.26	100.0	Analog	0.30	3
3	Sc		94,795.30	0.75	100.0	Pulse	0.30	3
3	Ge		61,340.26	0.49	100.0	Pulse	0.30	3
3	Ge		93,416.53	0.18	100.0	Pulse	0.30	3
3	Rh		1,015,172.81	0.26	100.0	Pulse	0.30	3
3	Tb		1,756,960.07	0.89	100.0	Analog	0.30	3

Quantitation Report

File Name	003CALB.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:00
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.004	ug/l	69.19	424.01	1.424E-04	Pulse	0.25	3
B			1	-0.634	ug/l	-2.54	1,380.09	4.634E-04	Pulse	0.15	3
Ca			1	-3.393	ug/l	-19.44	9,783.27	3.648E-03	Pulse	0.10	3
Sr			1	-0.002	ug/l	-80.76	490.03	1.400E-04	Pulse	0.10	3
Mo			1	0.000	ug/l	-454.58	66.67	1.903E-05	Pulse	0.10	3
Ag			1	0.000	ug/l	-1197.87	20.00	5.574E-06	Pulse	0.10	3
Sn			1	-0.026	ug/l	-31.04	1,323.44	3.689E-04	Pulse	0.10	3
Sb			1	-0.009	ug/l	-26.88	196.68	4.120E-05	Pulse	0.10	3
Ba			1	-0.049	ug/l	-1.90	26.67	5.591E-06	Pulse	0.10	3
Tl			1	-0.002	ug/l	-54.11	103.34	3.490E-05	Pulse	0.10	3
Pb			1	-0.005	ug/l	-191.71	2,160.24	7.278E-04	Pulse	0.10	3
Pb			1	0.019	ug/l	147.53	1,910.20	6.441E-04	Pulse	0.10	3
Pb			1	0.002	ug/l	439.34	8,638.02	2.910E-03	Pulse	0.10	3
Na			2	-1.082	ug/l	-2.74	2,883.62	2.749E-02	Pulse	0.30	3
Mg			2	-0.154	ug/l	-76.59	678.91	6.472E-03	Pulse	0.30	3
Al			2	-1.469	ug/l	-5.43	96.67	9.220E-04	Pulse	0.30	3
K			2	-0.255	ug/l	-296.61	12,861.71	1.226E-01	Pulse	0.30	3
Ca			2	-2.818	ug/l	-24.57	35.56	3.388E-04	Pulse	0.30	3
Ti			2	-0.071	ug/l	-23.13	11.11	1.059E-04	Pulse	0.30	3
V			2	-0.014	ug/l	-63.62	327.79	3.126E-03	Pulse	0.30	3
Cr			2	-0.004	ug/l	-77.89	247.57	2.361E-03	Pulse	0.30	3
Mn			2	-0.003	ug/l	-277.69	164.45	1.568E-03	Pulse	0.30	3
Fe			2	-3.502	ug/l	-9.10	10,577.97	1.008E-01	Pulse	0.30	3
Co			2	0.000	ug/l	-57.67	42.19	4.023E-04	Pulse	0.30	3
Ni			2	0.085	ug/l	59.97	1,144.50	1.091E-02	Pulse	0.30	3
Cu			2	0.000	ug/l	2773.97	1,243.40	1.186E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.741	ug/l	-30.23	6,355.75	6.060E-02	Pulse	0.30	3
As			2	-0.007	ug/l	-98.82	16.67	1.590E-04	Pulse	1.00	3
Cd			2	0.001	ug/l	660.61	6.67	9.871E-06	Pulse	0.30	3
Sn			2	0.121	ug/l	11.90	420.01	6.206E-04	Pulse	0.30	3
Se			3	-0.022	ug/l	-12.83	2.07	2.209E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,978,140.71	0.25	100.0	Analog	0.10	3
1	Sc		2,681,710.38	1.37	100.0	Analog	0.10	3
1	Ge		532,908.95	0.65	100.0	Pulse	0.10	3
1	Ge		745,022.23	0.54	100.0	Pulse	0.10	3
1	Rh		3,503,606.93	0.84	100.0	Analog	0.10	3
1	In		3,588,345.74	0.27	100.0	Analog	0.10	3
1	Tb		4,777,392.64	1.12	100.0	Analog	0.10	3
1	Ho		4,738,728.16	0.41	100.0	Analog	0.10	3
1	Bi		2,969,388.39	1.16	100.0	Analog	0.10	3
2	Sc		104,880.74	0.36	100.0	Pulse	0.30	3
2	Ge		67,481.98	0.38	100.0	Pulse	0.30	3
2	Ge		100,714.88	0.64	100.0	Pulse	0.30	3
2	Rh		1,729,785.56	0.35	100.0	Analog	0.30	3
2	In		676,627.73	0.38	100.0	Pulse	0.30	3
2	Tb		2,350,577.83	1.24	100.0	Analog	0.30	3
2	Ho		2,369,129.90	0.42	100.0	Analog	0.30	3
2	Bi		1,637,506.08	1.19	100.0	Analog	0.30	3
3	Sc		93,821.93	0.72	100.0	Pulse	0.30	3
3	Ge		61,744.15	1.86	100.0	Pulse	0.30	3
3	Ge		93,548.09	0.90	100.0	Pulse	0.30	3
3	Rh		1,023,238.05	0.63	100.0	Pulse	0.30	3
3	Tb		1,748,560.94	0.63	100.0	Analog	0.30	3

Quantitation Report

File Name	004CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:04
Sample Name	STDB
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.504	ug/l	1.30	4,923.46	1.644E-03	Pulse	0.25	3
B			1	23.833	ug/l	0.35	143,261.45	4.783E-02	Pulse	0.15	3
Ca			1	245.771	ug/l	1.02	240,585.81	8.984E-02	Pulse	0.10	3
Sr			1	4.841	ug/l	1.13	215,580.84	6.219E-02	Pulse	0.10	3
Mo			1	0.925	ug/l	3.41	8,145.69	2.349E-03	Pulse	0.10	3
Ag			1	0.462	ug/l	2.53	9,790.00	2.757E-03	Pulse	0.10	3
Sn			1	4.545	ug/l	1.85	65,276.41	1.838E-02	Pulse	0.10	3
Sb			1	1.813	ug/l	3.37	30,791.12	6.443E-03	Pulse	0.10	3
Ba			1	0.962	ug/l	1.74	6,611.66	1.383E-03	Pulse	0.10	3
Tl			1	0.482	ug/l	0.87	19,086.21	6.424E-03	Pulse	0.10	3
Pb			1	0.502	ug/l	0.96	9,129.81	3.073E-03	Pulse	0.10	3
Pb			1	0.492	ug/l	1.37	7,608.91	2.561E-03	Pulse	0.10	3
Pb			1	0.496	ug/l	1.96	35,648.13	1.200E-02	Pulse	0.10	3
Na			2	247.470	ug/l	0.95	229,469.95	2.211E+00	Pulse	0.30	3
Mg			2	248.160	ug/l	0.69	109,863.99	1.059E+00	Pulse	0.30	3
Al			2	26.759	ug/l	1.27	4,416.18	4.255E-02	Pulse	0.30	3
K			2	241.570	ug/l	0.30	88,442.55	8.522E-01	Pulse	0.30	3
Ca			2	260.212	ug/l	1.49	4,392.85	4.233E-02	Pulse	0.30	3
Ti			2	0.941	ug/l	40.02	130.00	1.251E-03	Pulse	0.30	3
V			2	1.019	ug/l	3.76	4,399.53	4.239E-02	Pulse	0.30	3
Cr			2	1.027	ug/l	4.28	5,406.41	5.208E-02	Pulse	0.30	3
Mn			2	1.037	ug/l	5.30	2,936.96	2.830E-02	Pulse	0.30	3
Fe			2	21.867	ug/l	1.40	116,294.21	1.121E+00	Pulse	0.30	3
Co			2	0.513	ug/l	2.30	4,299.19	4.143E-02	Pulse	0.30	3
Ni			2	1.147	ug/l	3.36	3,457.07	3.331E-02	Pulse	0.30	3
Cu			2	2.107	ug/l	2.32	13,858.17	1.335E-01	Pulse	0.30	3
Zn			2	5.570	ug/l	6.17	12,207.99	1.176E-01	Pulse	0.30	3
As			2	0.490	ug/l	5.43	273.33	2.633E-03	Pulse	1.00	3
Cd			2	0.501	ug/l	20.14	746.21	1.114E-03	Pulse	0.30	3
Sn			2	4.980	ug/l	2.09	15,521.11	2.317E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.498	ug/l	4.38	43.93	4.724E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,995,382.32	1.19	100.6	Analog	0.10	3
1	Sc		2,677,919.44	0.60	99.9	Analog	0.10	3
1	Ge		538,819.75	0.99	101.1	Pulse	0.10	3
1	Ge		742,968.48	1.28	99.7	Pulse	0.10	3
1	Rh		3,466,821.72	0.74	99.0	Analog	0.10	3
1	In		3,551,531.23	0.40	99.0	Analog	0.10	3
1	Tb		4,779,545.24	0.32	100.0	Analog	0.10	3
1	Ho		4,734,763.26	0.55	99.9	Analog	0.10	3
1	Bi		2,971,057.25	0.47	100.1	Analog	0.10	3
2	Sc		103,782.63	0.74	99.0	Pulse	0.30	3
2	Ge		66,675.58	0.82	98.8	Pulse	0.30	3
2	Ge		99,791.59	0.33	99.1	Pulse	0.30	3
2	Rh		1,695,346.77	0.13	98.0	Analog	0.30	3
2	In		669,820.48	0.40	99.0	Pulse	0.30	3
2	Tb		2,332,393.24	0.35	99.2	Analog	0.30	3
2	Ho		2,327,175.95	0.47	98.2	Analog	0.30	3
2	Bi		1,606,974.35	0.71	98.1	Analog	0.30	3
3	Sc		92,693.62	1.06	98.8	Pulse	0.30	3
3	Ge		61,176.43	1.18	99.1	Pulse	0.30	3
3	Ge		92,992.07	0.46	99.4	Pulse	0.30	3
3	Rh		1,013,974.09	0.20	99.1	Pulse	0.30	3
3	Tb		1,737,021.22	0.36	99.3	Analog	0.30	3

Quantitation Report

File Name	005CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:08
Sample Name	STDC
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.939	ug/l	1.49	44,590.06	1.496E-02	Pulse	0.25	3
B			1	5.907	ug/l	2.39	39,114.43	1.313E-02	Pulse	0.15	3
Ca			1	11.319	ug/l	1.81	23,497.41	8.737E-03	Pulse	0.10	3
Sr			1	4.862	ug/l	1.04	215,396.33	6.246E-02	Pulse	0.10	3
Mo			1	4.807	ug/l	1.24	41,832.34	1.213E-02	Pulse	0.10	3
Ag			1	4.835	ug/l	0.71	101,661.91	2.880E-02	Pulse	0.10	3
Sn			1	4.644	ug/l	2.31	66,260.15	1.877E-02	Pulse	0.10	3
Sb			1	4.791	ug/l	0.24	80,372.28	1.691E-02	Pulse	0.10	3
Ba			1	4.741	ug/l	2.47	31,051.83	6.533E-03	Pulse	0.10	3
Tl			1	4.890	ug/l	1.66	192,414.33	6.464E-02	Pulse	0.10	3
Pb			1	4.896	ug/l	1.54	69,661.13	2.340E-02	Pulse	0.10	3
Pb			1	4.754	ug/l	1.26	59,035.35	1.983E-02	Pulse	0.10	3
Pb			1	4.894	ug/l	0.87	276,384.54	9.284E-02	Pulse	0.10	3
Na			2	8.317	ug/l	2.86	11,730.87	1.101E-01	Pulse	0.30	3
Mg			2	5.767	ug/l	7.13	3,363.71	3.156E-02	Pulse	0.30	3
Al			2	4.713	ug/l	2.81	1,070.05	1.004E-02	Pulse	0.30	3
K			2	5.212	ug/l	18.76	14,827.82	1.391E-01	Pulse	0.30	3
Ca			2	29.477	ug/l	16.01	585.57	5.494E-03	Pulse	0.30	3
Ti			2	4.526	ug/l	5.30	565.58	5.306E-03	Pulse	0.30	3
V			2	4.856	ug/l	0.43	20,070.04	1.883E-01	Pulse	0.30	3
Cr			2	4.848	ug/l	0.87	25,196.32	2.364E-01	Pulse	0.30	3
Mn			2	4.908	ug/l	2.88	13,612.39	1.277E-01	Pulse	0.30	3
Fe			2	2.318	ug/l	11.89	35,677.43	3.347E-01	Pulse	0.30	3
Co			2	4.889	ug/l	0.42	41,702.79	3.913E-01	Pulse	0.30	3
Ni			2	4.886	ug/l	2.38	11,960.03	1.122E-01	Pulse	0.30	3
Cu			2	4.877	ug/l	1.45	31,280.96	2.935E-01	Pulse	0.30	3
Zn			2	4.815	ug/l	5.45	11,809.93	1.108E-01	Pulse	0.30	3
As			2	4.855	ug/l	2.65	2,598.55	2.438E-02	Pulse	1.00	3
Cd			2	4.853	ug/l	1.29	7,309.36	1.071E-02	Pulse	0.30	3
Sn			2	4.951	ug/l	1.14	15,715.74	2.303E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	4.985	ug/l	1.56	413.14	4.353E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,981,105.20	2.54	100.1	Analog	0.10	3
1	Sc		2,689,382.15	0.22	100.3	Analog	0.10	3
1	Ge		537,406.26	2.16	100.8	Pulse	0.10	3
1	Ge		738,907.31	0.92	99.2	Pulse	0.10	3
1	Rh		3,448,544.22	0.69	98.4	Analog	0.10	3
1	In		3,530,560.90	1.20	98.4	Analog	0.10	3
1	Tb		4,753,548.78	0.54	99.5	Analog	0.10	3
1	Ho		4,696,513.68	1.14	99.1	Analog	0.10	3
1	Bi		2,977,052.35	1.26	100.3	Analog	0.10	3
2	Sc		106,583.30	0.07	101.6	Pulse	0.30	3
2	Ge		67,294.67	1.91	99.7	Pulse	0.30	3
2	Ge		101,793.69	0.73	101.1	Pulse	0.30	3
2	Rh		1,723,613.44	0.82	99.6	Analog	0.30	3
2	In		682,333.53	0.40	100.8	Pulse	0.30	3
2	Tb		2,340,547.76	0.57	99.6	Analog	0.30	3
2	Ho		2,358,281.16	0.88	99.5	Analog	0.30	3
2	Bi		1,647,249.21	0.51	100.6	Analog	0.30	3
3	Sc		96,640.25	1.00	103.0	Pulse	0.30	3
3	Ge		61,834.39	0.73	100.1	Pulse	0.30	3
3	Ge		94,919.45	0.45	101.5	Pulse	0.30	3
3	Rh		1,027,258.40	0.68	100.4	Pulse	0.30	3
3	Tb		1,754,536.53	0.37	100.3	Analog	0.30	3

Quantitation Report

File Name	006CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:11
Sample Name	STDD
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	24.911	ug/l	0.35	223,870.53	7.493E-02	Pulse	0.25	3
B			1	24.250	ug/l	1.72	145,299.74	4.864E-02	Pulse	0.15	3
Ca			1	33.698	ug/l	1.70	44,333.44	1.648E-02	Pulse	0.10	3
Sr			1	24.998	ug/l	0.87	1,102,202.77	3.204E-01	Pulse	0.10	3
Mo			1	24.543	ug/l	2.21	212,731.09	6.185E-02	Pulse	0.10	3
Ag			1	25.654	ug/l	1.28	542,627.13	1.528E-01	Pulse	0.10	3
Sn			1	23.653	ug/l	1.78	332,754.58	9.369E-02	Pulse	0.10	3
Sb			1	24.682	ug/l	1.66	412,660.72	8.681E-02	Pulse	0.10	3
Ba			1	24.746	ug/l	1.56	160,661.69	3.380E-02	Pulse	0.10	3
Tl			1	25.471	ug/l	0.71	1,000,580.20	3.365E-01	Pulse	0.10	3
Pb			1	24.928	ug/l	0.54	345,205.71	1.161E-01	Pulse	0.10	3
Pb			1	24.625	ug/l	1.17	298,395.91	1.003E-01	Pulse	0.10	3
Pb			1	25.097	ug/l	0.81	1,380,444.05	4.642E-01	Pulse	0.10	3
Na			2	25.340	ug/l	0.20	27,939.81	2.596E-01	Pulse	0.30	3
Mg			2	25.074	ug/l	3.05	12,200.08	1.134E-01	Pulse	0.30	3
Al			2	23.466	ug/l	6.99	4,056.09	3.770E-02	Pulse	0.30	3
K			2	24.504	ug/l	1.85	21,235.81	1.973E-01	Pulse	0.30	3
Ca			2	120.318	ug/l	4.58	2,151.28	2.000E-02	Pulse	0.30	3
Ti			2	24.204	ug/l	1.38	2,966.97	2.757E-02	Pulse	0.30	3
V			2	24.948	ug/l	1.55	102,470.06	9.523E-01	Pulse	0.30	3
Cr			2	24.775	ug/l	0.99	128,867.74	1.198E+00	Pulse	0.30	3
Mn			2	24.658	ug/l	0.95	68,341.67	6.351E-01	Pulse	0.30	3
Fe			2	21.892	ug/l	0.83	120,695.23	1.122E+00	Pulse	0.30	3
Co			2	24.776	ug/l	2.11	213,189.28	1.981E+00	Pulse	0.30	3
Ni			2	24.742	ug/l	2.27	57,156.51	5.312E-01	Pulse	0.30	3
Cu			2	24.846	ug/l	2.03	155,690.79	1.447E+00	Pulse	0.30	3
Zn			2	24.457	ug/l	3.05	31,027.20	2.883E-01	Pulse	0.30	3
As			2	25.040	ug/l	1.82	13,446.22	1.250E-01	Pulse	1.00	3
Cd			2	25.084	ug/l	1.08	37,855.28	5.533E-02	Pulse	0.30	3
Sn			2	24.632	ug/l	1.00	78,229.41	1.144E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	25.020	ug/l	2.35	2,078.00	2.168E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,987,704.93	1.30	100.3	Analog	0.10	3
1	Sc		2,690,336.63	1.22	100.3	Analog	0.10	3
1	Ge		547,834.55	1.78	102.8	Pulse	0.10	3
1	Ge		757,626.79	1.21	101.7	Pulse	0.10	3
1	Rh		3,439,950.78	0.80	98.2	Analog	0.10	3
1	In		3,552,158.73	1.23	99.0	Analog	0.10	3
1	Tb		4,753,919.93	0.80	99.5	Analog	0.10	3
1	Ho		4,706,568.68	1.00	99.3	Analog	0.10	3
1	Bi		2,973,874.85	1.22	100.2	Analog	0.10	3
2	Sc		107,618.40	1.18	102.6	Pulse	0.30	3
2	Ge		68,141.33	0.90	101.0	Pulse	0.30	3
2	Ge		102,314.96	1.02	101.6	Pulse	0.30	3
2	Rh		1,717,046.25	1.20	99.3	Analog	0.30	3
2	In		684,088.26	1.20	101.1	Pulse	0.30	3
2	Tb		2,344,820.74	0.90	99.8	Analog	0.30	3
2	Ho		2,357,409.98	0.86	99.5	Analog	0.30	3
2	Bi		1,629,676.60	0.09	99.5	Analog	0.30	3
3	Sc		96,409.66	0.42	102.8	Pulse	0.30	3
3	Ge		62,613.87	0.54	101.4	Pulse	0.30	3
3	Ge		95,862.69	0.87	102.5	Pulse	0.30	3
3	Rh		1,031,544.79	0.51	100.8	Pulse	0.30	3
3	Tb		1,727,966.70	0.72	98.8	Analog	0.30	3

Quantitation Report

File Name	007CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:15
Sample Name	STDE
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.820	ug/l	0.77	452,722.39	1.527E-01	Pulse	0.25	3
B			1	49.918	ug/l	0.76	291,453.44	9.833E-02	Pulse	0.15	3
Ca			1	69.069	ug/l	2.45	76,274.89	2.872E-02	Pulse	0.10	3
Sr			1	50.807	ug/l	1.16	2,214,767.31	6.511E-01	Analog	0.10	3
Mo			1	50.350	ug/l	1.54	431,537.35	1.269E-01	Pulse	0.10	3
Ag			1	52.269	ug/l	0.88	1,083,163.13	3.113E-01	Pulse	0.10	3
Sn			1	49.383	ug/l	0.62	678,934.93	1.951E-01	Pulse	0.10	3
Sb			1	50.475	ug/l	0.89	836,851.32	1.774E-01	Pulse	0.10	3
Ba			1	50.434	ug/l	1.35	324,477.80	6.880E-02	Pulse	0.10	3
Tl			1	51.765	ug/l	2.09	2,029,138.56	6.838E-01	Analog	0.10	3
Pb			1	50.879	ug/l	1.45	700,817.72	2.361E-01	Pulse	0.10	3
Pb			1	50.205	ug/l	0.96	605,405.68	2.040E-01	Pulse	0.10	3
Pb			1	51.215	ug/l	1.36	2,802,463.54	9.443E-01	Analog	0.10	3
Na			2	51.915	ug/l	1.89	53,110.58	4.931E-01	Pulse	0.30	3
Mg			2	51.099	ug/l	2.91	24,086.16	2.236E-01	Pulse	0.30	3
Al			2	50.454	ug/l	4.64	8,345.50	7.750E-02	Pulse	0.30	3
K			2	50.464	ug/l	2.47	29,689.77	2.756E-01	Pulse	0.30	3
Ca			2	253.468	ug/l	7.12	4,442.88	4.125E-02	Pulse	0.30	3
Ti			2	50.336	ug/l	3.10	6,155.66	5.714E-02	Pulse	0.30	3
V			2	50.234	ug/l	2.18	206,119.94	1.914E+00	Pulse	0.30	3
Cr			2	50.204	ug/l	1.44	261,103.91	2.424E+00	Pulse	0.30	3
Mn			2	49.918	ug/l	1.98	138,285.28	1.284E+00	Pulse	0.30	3
Fe			2	48.841	ug/l	1.60	237,484.95	2.205E+00	Pulse	0.30	3
Co			2	50.345	ug/l	1.49	433,586.08	4.026E+00	Pulse	0.30	3
Ni			2	50.184	ug/l	1.66	115,033.17	1.068E+00	Pulse	0.30	3
Cu			2	50.262	ug/l	2.13	313,940.65	2.915E+00	Pulse	0.30	3
Zn			2	49.474	ug/l	3.22	55,396.49	5.144E-01	Pulse	0.30	3
As			2	49.866	ug/l	1.80	26,780.22	2.486E-01	Pulse	1.00	3
Cd			2	50.169	ug/l	1.07	76,244.08	1.107E-01	Pulse	0.30	3
Sn			2	50.260	ug/l	2.50	160,711.18	2.333E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	50.228	ug/l	0.74	4,189.27	4.348E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,964,197.75	0.51	99.5	Analog	0.10	3
1	Sc		2,656,502.77	0.88	99.1	Analog	0.10	3
1	Ge		539,761.93	1.61	101.3	Pulse	0.10	3
1	Ge		752,264.96	1.35	101.0	Pulse	0.10	3
1	Rh		3,401,900.99	0.87	97.1	Analog	0.10	3
1	In		3,480,026.76	0.55	97.0	Analog	0.10	3
1	Tb		4,716,262.22	1.19	98.7	Analog	0.10	3
1	Ho		4,697,885.76	0.18	99.1	Analog	0.10	3
1	Bi		2,968,035.68	1.13	100.0	Analog	0.10	3
2	Sc		107,723.87	1.32	102.7	Pulse	0.30	3
2	Ge		68,459.17	1.57	101.4	Pulse	0.30	3
2	Ge		102,674.95	1.07	101.9	Pulse	0.30	3
2	Rh		1,724,343.33	0.49	99.7	Analog	0.30	3
2	In		689,065.61	1.17	101.8	Pulse	0.30	3
2	Tb		2,329,335.26	0.25	99.1	Analog	0.30	3
2	Ho		2,362,356.02	0.96	99.7	Analog	0.30	3
2	Bi		1,662,915.07	0.70	101.6	Analog	0.30	3
3	Sc		97,168.78	0.61	103.6	Pulse	0.30	3
3	Ge		63,757.09	0.43	103.3	Pulse	0.30	3
3	Ge		96,349.85	0.63	103.0	Pulse	0.30	3
3	Rh		1,046,434.85	0.32	102.3	Pulse	0.30	3
3	Tb		1,757,352.08	0.06	100.5	Analog	0.30	3

Quantitation Report

File Name	008CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:18
Sample Name	STDF
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	100.258	ug/l	0.81	902,773.94	3.012E-01	Pulse	0.25	3
B			1	97.688	ug/l	0.54	571,915.46	1.908E-01	Pulse	0.15	3
Ca			1	154.505	ug/l	0.61	153,532.57	5.827E-02	Pulse	0.10	3
Sr			1	99.516	ug/l	0.64	4,327,337.33	1.275E+00	Analog	0.10	3
Mo			1	100.401	ug/l	0.99	858,463.17	2.530E-01	Pulse	0.10	3
Ag			1	104.520	ug/l	1.65	2,129,371.16	6.224E-01	Analog	0.10	3
Sn			1	100.668	ug/l	1.57	1,359,105.92	3.972E-01	Analog	0.10	3
Sb			1	100.273	ug/l	2.14	1,663,299.66	3.524E-01	Analog	0.10	3
Ba			1	100.134	ug/l	0.52	644,457.58	1.365E-01	Pulse	0.10	3
Tl			1	103.163	ug/l	1.39	4,018,577.54	1.363E+00	Analog	0.10	3
Pb			1	102.640	ug/l	2.04	1,402,610.40	4.756E-01	Analog	0.10	3
Pb			1	100.436	ug/l	0.53	1,201,925.22	4.075E-01	Pulse	0.10	3
Pb			1	101.896	ug/l	1.20	5,532,474.63	1.876E+00	Analog	0.10	3
Na			2	104.643	ug/l	1.41	102,442.47	9.564E-01	Pulse	0.30	3
Mg			2	100.524	ug/l	0.60	46,390.00	4.331E-01	Pulse	0.30	3
Al			2	101.145	ug/l	1.04	16,310.27	1.523E-01	Pulse	0.30	3
K			2	99.228	ug/l	2.46	45,286.75	4.228E-01	Pulse	0.30	3
Ca			2	500.265	ug/l	2.36	8,639.03	8.065E-02	Pulse	0.30	3
Ti			2	100.055	ug/l	0.94	12,146.78	1.134E-01	Pulse	0.30	3
V			2	99.903	ug/l	0.23	407,312.00	3.802E+00	Pulse	0.30	3
Cr			2	100.103	ug/l	0.15	517,494.55	4.831E+00	Pulse	0.30	3
Mn			2	100.172	ug/l	0.32	275,808.71	2.575E+00	Pulse	0.30	3
Fe			2	101.474	ug/l	0.37	462,815.35	4.321E+00	Pulse	0.30	3
Co			2	99.985	ug/l	0.87	856,344.63	7.994E+00	Pulse	0.30	3
Ni			2	99.977	ug/l	0.95	226,947.07	2.119E+00	Pulse	0.30	3
Cu			2	99.911	ug/l	0.51	619,406.54	5.782E+00	Pulse	0.30	3
Zn			2	100.722	ug/l	0.30	104,706.86	9.775E-01	Pulse	0.30	3
As			2	100.030	ug/l	0.24	53,407.39	4.986E-01	Pulse	1.00	3
Cd			2	100.093	ug/l	0.27	151,366.21	2.208E-01	Pulse	0.30	3
Sn			2	99.963	ug/l	1.28	318,055.51	4.639E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	99.313	ug/l	2.14	8,298.97	8.593E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,997,483.95	0.60	100.6	Analog	0.10	3
1	Sc		2,634,870.07	0.43	98.3	Analog	0.10	3
1	Ge		541,563.69	1.19	101.6	Pulse	0.10	3
1	Ge		759,983.24	1.61	102.0	Pulse	0.10	3
1	Rh		3,393,760.26	0.84	96.9	Analog	0.10	3
1	In		3,421,570.51	1.13	95.4	Analog	0.10	3
1	Tb		4,720,172.22	1.32	98.8	Analog	0.10	3
1	Ho		4,660,470.76	1.29	98.3	Analog	0.10	3
1	Bi		2,949,490.17	1.28	99.3	Analog	0.10	3
2	Sc		107,119.94	0.20	102.1	Pulse	0.30	3
2	Ge		69,014.91	1.45	102.3	Pulse	0.30	3
2	Ge		103,243.99	0.56	102.5	Pulse	0.30	3
2	Rh		1,688,423.75	0.46	97.6	Analog	0.30	3
2	In		685,632.66	0.55	101.3	Pulse	0.30	3
2	Tb		2,323,044.07	1.07	98.8	Analog	0.30	3
2	Ho		2,323,430.81	1.35	98.1	Analog	0.30	3
2	Bi		1,643,694.24	0.77	100.4	Analog	0.30	3
3	Sc		97,134.45	0.77	103.5	Pulse	0.30	3
3	Ge		62,570.35	0.25	101.3	Pulse	0.30	3
3	Ge		96,592.66	1.06	103.3	Pulse	0.30	3
3	Rh		1,037,288.33	0.19	101.4	Pulse	0.30	3
3	Tb		1,731,015.70	0.98	99.0	Analog	0.30	3

Quantitation Report

File Name	009CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:22
Sample Name	STDG
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.069	ug/l	9.65	986.71	3.368E-04	Pulse	0.25	3
B			1	203.690	ug/l	0.52	1,160,328.08	3.960E-01	Analog	0.15	3
Ca			1	524.839	ug/l	1.36	491,919.08	1.864E-01	Pulse	0.10	3
Sr			1	0.023	ug/l	7.55	1,536.80	4.613E-04	Pulse	0.10	3
Mo			1	0.066	ug/l	19.25	623.38	1.870E-04	Pulse	0.10	3
Ag			1	0.012	ug/l	19.62	273.34	7.880E-05	Pulse	0.10	3
Sn			1	1.006	ug/l	14.16	15,374.70	4.433E-03	Pulse	0.10	3
Sb			1	0.290	ug/l	12.84	5,131.06	1.092E-03	Pulse	0.10	3
Ba			1	0.058	ug/l	24.66	710.05	1.512E-04	Pulse	0.10	3
Tl			1	0.062	ug/l	6.28	2,587.00	8.724E-04	Pulse	0.10	3
Pb			1	0.036	ug/l	35.77	2,717.02	9.163E-04	Pulse	0.10	3
Pb			1	0.056	ug/l	6.52	2,356.94	7.947E-04	Pulse	0.10	3
Pb			1	0.040	ug/l	21.44	10,681.89	3.602E-03	Pulse	0.10	3
Na			2	498.285	ug/l	1.36	474,009.27	4.415E+00	Pulse	0.30	3
Mg			2	495.173	ug/l	1.33	226,035.46	2.105E+00	Pulse	0.30	3
Al			2	488.876	ug/l	1.60	77,743.29	7.241E-01	Pulse	0.30	3
K			2	487.958	ug/l	1.11	171,313.77	1.596E+00	Pulse	0.30	3
Ca			2	495.073	ug/l	0.87	8,571.18	7.982E-02	Pulse	0.30	3
Ti			2	0.267	ug/l	87.35	52.22	4.881E-04	Pulse	0.30	3
V			2	-0.023	ug/l	-30.94	296.67	2.763E-03	Pulse	0.30	3
Cr			2	0.031	ug/l	12.53	433.73	4.039E-03	Pulse	0.30	3
Mn			2	0.058	ug/l	35.44	337.79	3.149E-03	Pulse	0.30	3
Fe			2	517.411	ug/l	1.83	2,258,919.01	2.104E+01	Analog	0.30	3
Co			2	0.010	ug/l	24.04	130.57	1.215E-03	Pulse	0.30	3
Ni			2	0.103	ug/l	20.05	1,212.29	1.129E-02	Pulse	0.30	3
Cu			2	0.162	ug/l	13.23	2,277.96	2.122E-02	Pulse	0.30	3
Zn			2	1.805	ug/l	7.29	8,976.98	8.361E-02	Pulse	0.30	3
As			2	0.071	ug/l	46.04	58.67	5.474E-04	Pulse	1.00	3
Cd			2	0.026	ug/l	24.25	46.62	6.687E-05	Pulse	0.30	3
Sn			2	2.147	ug/l	12.58	6,989.44	1.002E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	200.791	ug/l	0.14	16,736.13	1.737E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,930,055.90	0.21	98.4	Analog	0.10	3
1	Sc		2,639,650.74	1.51	98.4	Analog	0.10	3
1	Ge		535,676.29	0.94	100.5	Pulse	0.10	3
1	Ge		747,388.74	0.18	100.3	Pulse	0.10	3
1	Rh		3,331,025.16	0.55	95.1	Analog	0.10	3
1	In		3,467,221.18	0.56	96.6	Analog	0.10	3
1	Tb		4,697,282.43	0.39	98.3	Analog	0.10	3
1	Ho		4,655,488.16	1.33	98.2	Analog	0.10	3
1	Bi		2,965,794.54	0.52	99.9	Analog	0.10	3
2	Sc		107,378.69	1.25	102.4	Pulse	0.30	3
2	Ge		68,595.41	0.69	101.6	Pulse	0.30	3
2	Ge		104,046.66	1.56	103.3	Pulse	0.30	3
2	Rh		1,718,574.10	0.73	99.4	Analog	0.30	3
2	In		696,872.62	0.93	103.0	Pulse	0.30	3
2	Tb		2,374,287.13	0.89	101.0	Analog	0.30	3
2	Ho		2,365,657.48	0.02	99.9	Analog	0.30	3
2	Bi		1,650,193.27	1.35	100.8	Analog	0.30	3
3	Sc		97,569.17	0.82	104.0	Pulse	0.30	3
3	Ge		63,588.68	1.02	103.0	Pulse	0.30	3
3	Ge		96,355.48	0.21	103.0	Pulse	0.30	3
3	Rh		1,044,239.85	0.73	102.1	Pulse	0.30	3
3	Tb		1,764,443.06	0.94	100.9	Analog	0.30	3

Quantitation Report

File Name	010CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:25
Sample Name	STDH
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.029	ug/l	36.15	648.02	2.173E-04	Pulse	0.25	3
B			1	5.217	ug/l	6.97	35,163.56	1.179E-02	Pulse	0.15	3
Ca			1	1009.322	ug/l	0.54	948,658.95	3.540E-01	Pulse	0.10	3
Sr			1	0.023	ug/l	58.78	1,580.17	4.672E-04	Pulse	0.10	3
Mo			1	0.028	ug/l	4.84	303.35	8.949E-05	Pulse	0.10	3
Ag			1	0.008	ug/l	13.68	183.34	5.198E-05	Pulse	0.10	3
Sn			1	0.213	ug/l	7.94	4,624.20	1.310E-03	Pulse	0.10	3
Sb			1	0.093	ug/l	13.80	1,900.19	4.000E-04	Pulse	0.10	3
Ba			1	0.000	ug/l	5179.08	343.35	7.224E-05	Pulse	0.10	3
Tl			1	0.024	ug/l	17.92	1,110.08	3.746E-04	Pulse	0.10	3
Pb			1	0.034	ug/l	51.58	2,683.69	9.056E-04	Pulse	0.10	3
Pb			1	0.043	ug/l	17.34	2,206.93	7.449E-04	Pulse	0.10	3
Pb			1	0.033	ug/l	31.84	10,308.52	3.479E-03	Pulse	0.10	3
Na			2	994.142	ug/l	2.05	948,401.14	8.771E+00	Pulse	0.30	3
Mg			2	990.933	ug/l	2.05	454,772.40	4.206E+00	Pulse	0.30	3
Al			2	982.686	ug/l	2.66	157,031.89	1.452E+00	Pulse	0.30	3
K			2	976.545	ug/l	2.70	331,882.85	3.070E+00	Pulse	0.30	3
Ca			2	977.783	ug/l	3.39	16,959.93	1.569E-01	Pulse	0.30	3
Ti			2	0.094	ug/l	302.67	31.11	2.922E-04	Pulse	0.30	3
V			2	-0.025	ug/l	-39.36	292.23	2.697E-03	Pulse	0.30	3
Cr			2	0.009	ug/l	44.82	324.41	3.002E-03	Pulse	0.30	3
Mn			2	0.052	ug/l	19.43	322.23	2.981E-03	Pulse	0.30	3
Fe			2	1017.146	ug/l	2.75	4,446,571.07	4.113E+01	Analog	0.30	3
Co			2	0.012	ug/l	19.81	151.33	1.400E-03	Pulse	0.30	3
Ni			2	0.060	ug/l	26.75	1,122.28	1.038E-02	Pulse	0.30	3
Cu			2	0.049	ug/l	41.52	1,586.76	1.469E-02	Pulse	0.30	3
Zn			2	0.122	ug/l	180.21	7,395.08	6.840E-02	Pulse	0.30	3
As			2	0.017	ug/l	30.45	30.33	2.803E-04	Pulse	1.00	3
Cd			2	0.014	ug/l	32.61	27.76	3.972E-05	Pulse	0.30	3
Sn			2	0.628	ug/l	12.19	2,082.39	2.975E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	399.673	ug/l	0.70	33,692.21	3.457E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,982,500.24	0.15	100.1	Analog	0.10	3
1	Sc		2,679,993.71	0.92	99.9	Analog	0.10	3
1	Ge		545,658.39	0.90	102.4	Pulse	0.10	3
1	Ge		767,883.79	1.26	103.1	Pulse	0.10	3
1	Rh		3,388,702.14	1.26	96.7	Analog	0.10	3
1	In		3,529,453.56	1.04	98.4	Analog	0.10	3
1	Tb		4,747,706.07	0.83	99.4	Analog	0.10	3
1	Ho		4,712,316.80	0.75	99.4	Analog	0.10	3
1	Bi		2,962,889.02	0.69	99.8	Analog	0.10	3
2	Sc		108,159.57	2.18	103.1	Pulse	0.30	3
2	Ge		69,736.97	0.97	103.3	Pulse	0.30	3
2	Ge		105,967.03	0.74	105.2	Pulse	0.30	3
2	Rh		1,718,034.72	0.82	99.3	Analog	0.30	3
2	In		699,654.75	0.72	103.4	Pulse	0.30	3
2	Tb		2,378,800.60	0.63	101.2	Analog	0.30	3
2	Ho		2,388,783.73	0.89	100.8	Analog	0.30	3
2	Bi		1,664,733.06	0.39	101.7	Analog	0.30	3
3	Sc		98,551.04	0.17	105.0	Pulse	0.30	3
3	Ge		64,625.03	0.74	104.7	Pulse	0.30	3
3	Ge		97,464.23	0.22	104.2	Pulse	0.30	3
3	Rh		1,049,320.90	0.25	102.5	Pulse	0.30	3
3	Tb		1,771,203.96	0.37	101.3	Analog	0.30	3

Quantitation Report

File Name	011CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:29
Sample Name	STDI
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.014	ug/l	55.42	502.68	1.708E-04	Pulse	0.25	3
B			1	1.627	ug/l	5.76	14,246.26	4.841E-03	Pulse	0.15	3
Ca			1	4997.195	ug/l	0.67	4,763,326.28	1.734E+00	Analog	0.10	3
Sr			1	0.039	ug/l	11.11	2,253.58	6.698E-04	Pulse	0.10	3
Mo			1	0.015	ug/l	36.64	193.34	5.735E-05	Pulse	0.10	3
Ag			1	0.003	ug/l	78.83	83.34	2.405E-05	Pulse	0.10	3
Sn			1	0.082	ug/l	3.59	2,740.35	7.911E-04	Pulse	0.10	3
Sb			1	0.073	ug/l	4.60	1,556.81	3.269E-04	Pulse	0.10	3
Ba			1	0.028	ug/l	31.80	523.37	1.099E-04	Pulse	0.10	3
Tl			1	0.010	ug/l	34.47	563.37	1.932E-04	Pulse	0.10	3
Pb			1	0.025	ug/l	32.74	2,520.33	8.641E-04	Pulse	0.10	3
Pb			1	0.046	ug/l	11.93	2,200.25	7.544E-04	Pulse	0.10	3
Pb			1	0.032	ug/l	10.46	10,088.43	3.459E-03	Pulse	0.10	3
Na			2	5124.037	ug/l	1.90	4,976,742.72	4.505E+01	Analog	0.30	3
Mg			2	5165.400	ug/l	2.19	2,418,424.69	2.189E+01	Analog	0.30	3
Al			2	4993.380	ug/l	0.83	813,875.65	7.368E+00	Pulse	0.30	3
K			2	5167.011	ug/l	2.57	1,735,478.16	1.571E+01	Analog	0.30	3
Ca			2	5015.950	ug/l	0.61	88,545.51	8.015E-01	Pulse	0.30	3
Ti			2	-0.084	ug/l	-63.65	10.00	9.052E-05	Pulse	0.30	3
V			2	-0.017	ug/l	-107.03	332.23	3.005E-03	Pulse	0.30	3
Cr			2	-0.001	ug/l	-1834.04	276.99	2.510E-03	Pulse	0.30	3
Mn			2	0.145	ug/l	7.78	593.35	5.372E-03	Pulse	0.30	3
Fe			2	5108.179	ug/l	1.95	22,707,616.32	2.056E+02	Analog	0.30	3
Co			2	0.043	ug/l	6.89	427.59	3.870E-03	Pulse	0.30	3
Ni			2	0.146	ug/l	7.04	1,346.74	1.219E-02	Pulse	0.30	3
Cu			2	0.106	ug/l	23.87	1,985.70	1.798E-02	Pulse	0.30	3
Zn			2	-0.206	ug/l	-152.77	7,227.23	6.543E-02	Pulse	0.30	3
As			2	0.004	ug/l	250.84	23.67	2.145E-04	Pulse	1.00	3
Cd			2	0.007	ug/l	107.29	16.65	2.442E-05	Pulse	0.30	3
Sn			2	0.362	ug/l	8.47	1,188.95	1.742E-03	Pulse	0.30	3
Se			3	0.475	ug/l	9.51	43.73	4.518E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,942,717.49	1.26	98.8	Analog	0.10	3
1	Sc		2,747,877.46	1.00	102.5	Analog	0.10	3
1	Ge		552,275.67	0.72	103.6	Pulse	0.10	3

Quantitation Report

1	Ge		754,673.53	0.68	101.3	Pulse	0.10	3
1	Rh		3,367,123.59	1.36	96.1	Analog	0.10	3
1	In		3,463,806.92	0.18	96.5	Analog	0.10	3
1	Tb		4,762,514.41	0.15	99.7	Analog	0.10	3
1	Ho		4,715,125.56	0.76	99.5	Analog	0.10	3
1	Bi		2,916,509.12	0.40	98.2	Analog	0.10	3
2	Sc		110,472.96	0.93	105.3	Pulse	0.30	3
2	Ge		68,450.54	0.86	101.4	Pulse	0.30	3
2	Ge		103,087.59	0.98	102.4	Pulse	0.30	3
2	Rh		1,675,753.93	1.77	96.9	Analog	0.30	3
2	In		682,799.36	0.80	100.9	Pulse	0.30	3
2	Tb		2,355,319.63	0.37	100.2	Analog	0.30	3
2	Ho		2,380,226.92	0.45	100.5	Analog	0.30	3
2	Bi		1,611,321.98	1.42	98.4	Analog	0.30	3
3	Sc		101,162.20	0.81	107.8	Pulse	0.30	3
3	Ge		63,739.42	0.55	103.2	Pulse	0.30	3
3	Ge		96,818.27	0.57	103.5	Pulse	0.30	3
3	Rh		1,021,969.44	0.56	99.9	Pulse	0.30	3
3	Tb		1,750,268.09	1.03	100.1	Analog	0.30	3

Quantitation Report

File Name	012CALS.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:33
Sample Name	STDJ
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.007	ug/l	138.53	438.68	1.513E-04	Pulse	0.25	3
B			1	0.842	ug/l	5.84	9,622.98	3.320E-03	Pulse	0.15	3
Ca			1	9974.737	ug/l	1.27	9,397,609.03	3.455E+00	Analog	0.10	3
Sr			1	0.067	ug/l	7.21	3,343.82	1.027E-03	Pulse	0.10	3
Mo			1	0.023	ug/l	38.88	250.01	7.680E-05	Pulse	0.10	3
Ag			1	0.003	ug/l	14.94	80.00	2.338E-05	Pulse	0.10	3
Sn			1	0.039	ug/l	42.98	2,136.91	6.244E-04	Pulse	0.10	3
Sb			1	0.077	ug/l	9.80	1,610.15	3.408E-04	Pulse	0.10	3
Ba			1	0.050	ug/l	35.55	663.37	1.405E-04	Pulse	0.10	3
Tl			1	0.007	ug/l	6.10	416.69	1.481E-04	Pulse	0.10	3
Pb			1	0.046	ug/l	25.14	2,713.70	9.640E-04	Pulse	0.10	3
Pb			1	0.063	ug/l	35.95	2,320.28	8.248E-04	Pulse	0.10	3
Pb			1	0.058	ug/l	10.97	11,078.79	3.936E-03	Pulse	0.10	3
Na			2	9890.322	ug/l	3.25	9,692,629.89	8.693E+01	Analog	0.30	3
Mg			2	9857.808	ug/l	2.69	4,658,473.42	4.178E+01	Analog	0.30	3
Al			2	10032.585	ug/l	1.52	1,650,760.77	1.480E+01	Analog	0.30	3
K			2	9882.463	ug/l	3.41	3,338,039.87	2.994E+01	Analog	0.30	3
Ca			2	9772.511	ug/l	1.53	174,085.74	1.561E+00	Pulse	0.30	3
Ti			2	-0.050	ug/l	-79.11	14.44	1.292E-04	Pulse	0.30	3
V			2	-0.013	ug/l	-70.38	351.12	3.152E-03	Pulse	0.30	3
Cr			2	0.002	ug/l	341.12	296.25	2.651E-03	Pulse	0.30	3
Mn			2	0.298	ug/l	12.06	1,037.83	9.317E-03	Pulse	0.30	3
Fe			2	9865.102	ug/l	2.67	44,245,949.35	3.968E+02	Analog	0.30	3
Co			2	0.087	ug/l	10.69	820.57	7.367E-03	Pulse	0.30	3
Ni			2	0.287	ug/l	16.53	1,690.11	1.516E-02	Pulse	0.30	3
Cu			2	0.115	ug/l	11.94	2,059.04	1.846E-02	Pulse	0.30	3
Zn			2	3.421	ug/l	6.25	10,957.10	9.821E-02	Pulse	0.30	3
As			2	0.019	ug/l	39.16	32.33	2.896E-04	Pulse	1.00	3
Cd			2	0.011	ug/l	72.43	22.20	3.317E-05	Pulse	0.30	3
Sn			2	0.226	ug/l	4.23	745.58	1.110E-03	Pulse	0.30	3
Se			3	0.122	ug/l	11.49	14.07	1.465E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,898,503.06	0.38	97.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,719,908.40	1.25	101.4	Analog	0.10	3
1	Ge		540,858.86	0.26	101.5	Pulse	0.10	3
1	Ge		742,694.78	0.14	99.7	Pulse	0.10	3
1	Rh		3,254,775.89	0.08	92.9	Analog	0.10	3
1	In		3,418,646.22	1.59	95.3	Analog	0.10	3
1	Tb		4,723,907.12	1.39	98.9	Analog	0.10	3
1	Ho		4,631,331.91	0.91	97.7	Analog	0.10	3
1	Bi		2,815,028.81	0.95	94.8	Analog	0.10	3
2	Sc		111,558.63	2.43	106.4	Pulse	0.30	3
2	Ge		68,971.63	1.05	102.2	Pulse	0.30	3
2	Ge		102,662.50	1.38	101.9	Pulse	0.30	3
2	Rh		1,674,888.54	0.76	96.8	Analog	0.30	3
2	In		671,441.91	1.39	99.2	Pulse	0.30	3
2	Tb		2,334,908.86	0.65	99.3	Analog	0.30	3
2	Ho		2,366,206.99	0.82	99.9	Analog	0.30	3
2	Bi		1,566,444.59	0.55	95.7	Analog	0.30	3
3	Sc		100,611.31	0.54	107.2	Pulse	0.30	3
3	Ge		63,126.01	0.48	102.2	Pulse	0.30	3
3	Ge		96,054.97	0.66	102.7	Pulse	0.30	3
3	Rh		998,248.64	0.25	97.6	Pulse	0.30	3
3	Tb		1,744,053.23	0.40	99.7	Analog	0.30	3

Quantitation Report

File Name	013SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:44
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.002	ug/l	-3.88	373.34	1.228E-04	Pulse	0.25	3
B			1	0.040	ug/l	48.60	5,374.34	1.768E-03	Pulse	0.15	3
Ca			1	-3.204	ug/l	-2.70	9,963.40	3.713E-03	Pulse	0.10	3
Sr			1	-0.004	ug/l	-78.71	403.36	1.151E-04	Pulse	0.10	3
Mo			1	0.009	ug/l	23.52	153.34	4.368E-05	Pulse	0.10	3
Ag			1	0.000	ug/l	232.77	30.00	8.476E-06	Pulse	0.10	3
Sn			1	0.190	ug/l	16.15	4,317.42	1.220E-03	Pulse	0.10	3
Sb			1	0.021	ug/l	61.32	690.04	1.444E-04	Pulse	0.10	3
Ba			1	-0.043	ug/l	-10.89	63.33	1.325E-05	Pulse	0.10	3
Tl			1	0.001	ug/l	111.82	213.34	7.224E-05	Pulse	0.10	3
Pb			1	0.000	ug/l	1632.55	2,213.60	7.509E-04	Pulse	0.10	3
Pb			1	0.016	ug/l	53.53	1,866.86	6.336E-04	Pulse	0.10	3
Pb			1	0.001	ug/l	498.53	8,531.30	2.894E-03	Pulse	0.10	3
Na			2	-0.816	ug/l	-7.07	3,268.13	2.983E-02	Pulse	0.30	3
Mg			2	-0.241	ug/l	-25.97	668.91	6.106E-03	Pulse	0.30	3
Al			2	1.445	ug/l	22.76	572.24	5.220E-03	Pulse	0.30	3
K			2	0.990	ug/l	64.41	13,848.10	1.264E-01	Pulse	0.30	3
Ca			2	-2.849	ug/l	-50.25	36.66	3.338E-04	Pulse	0.30	3
Ti			2	-0.003	ug/l	-2600.73	20.00	1.824E-04	Pulse	0.30	3
V			2	0.000	ug/l	-21740.26	400.01	3.650E-03	Pulse	0.30	3
Cr			2	0.016	ug/l	48.73	363.07	3.312E-03	Pulse	0.30	3
Mn			2	-0.028	ug/l	-7.18	102.22	9.332E-04	Pulse	0.30	3
Fe			2	22.232	ug/l	18.82	124,488.13	1.135E+00	Pulse	0.30	3
Co			2	-0.002	ug/l	-17.03	34.11	3.114E-04	Pulse	0.30	3
Ni			2	0.076	ug/l	19.52	1,174.50	1.072E-02	Pulse	0.30	3
Cu			2	-0.041	ug/l	-44.73	1,040.05	9.487E-03	Pulse	0.30	3
Zn			2	-0.937	ug/l	-1.33	6,445.79	5.883E-02	Pulse	0.30	3
As			2	-0.005	ug/l	-230.21	18.67	1.701E-04	Pulse	1.00	3
Cd			2	0.003	ug/l	216.43	9.99	1.441E-05	Pulse	0.30	3
Sn			2	0.584	ug/l	18.94	1,913.48	2.770E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.070	ug/l	41.86	9.60	1.015E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		3,039,773.38	0.80	100.0	Analog	0.10	3
1	Sc		2,682,880.90	2.37	100.0	Analog	0.10	3
1	Ge		539,823.05	1.32	100.0	Pulse	0.10	3
1	Ge		741,212.15	0.68	100.0	Pulse	0.10	3
1	Rh		3,507,760.15	1.28	100.0	Analog	0.10	3
1	In		3,539,233.38	0.62	100.0	Analog	0.10	3
1	Tb		4,779,912.22	0.09	100.0	Analog	0.10	3
1	Ho		4,715,609.82	0.89	100.0	Analog	0.10	3
1	Bi		2,947,801.21	1.31	100.0	Analog	0.10	3
2	Sc		109,568.20	0.86	100.0	Pulse	0.30	3
2	Ge		69,251.60	1.80	100.0	Pulse	0.30	3
2	Ge		103,973.93	1.13	100.0	Pulse	0.30	3
2	Rh		1,768,434.79	0.58	100.0	Analog	0.30	3
2	In		690,170.89	0.79	100.0	Pulse	0.30	3
2	Tb		2,375,061.78	0.64	100.0	Analog	0.30	3
2	Ho		2,391,112.20	1.16	100.0	Analog	0.30	3
2	Bi		1,646,922.78	1.09	100.0	Analog	0.30	3
3	Sc		97,641.26	0.86	100.0	Pulse	0.30	3
3	Ge		62,280.39	0.26	100.0	Pulse	0.30	3
3	Ge		94,746.46	1.17	100.0	Pulse	0.30	3
3	Rh		1,028,906.90	0.11	100.0	Pulse	0.30	3
3	Tb		1,744,228.02	0.43	100.0	Analog	0.30	3

Quantitation Report

File Name	014SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:47
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.004	ug/l	-172.05	349.34	1.170E-04	Pulse	0.25	3
B			1	0.050	ug/l	82.20	5,329.87	1.788E-03	Pulse	0.15	3
Ca			1	-0.482	ug/l	-67.95	12,391.74	4.655E-03	Pulse	0.10	3
Sr			1	0.001	ug/l	362.16	626.70	1.791E-04	Pulse	0.10	3
Mo			1	0.001	ug/l	511.85	80.00	2.294E-05	Pulse	0.10	3
Ag			1	0.001	ug/l	210.50	33.33	9.389E-06	Pulse	0.10	3
Sn			1	0.000	ug/l	---	1,663.50	4.698E-04	Pulse	0.10	3
Sb			1	0.003	ug/l	161.83	400.02	8.382E-05	Pulse	0.10	3
Ba			1	0.005	ug/l	158.44	376.69	7.915E-05	Pulse	0.10	3
Tl			1	0.000	ug/l	250.42	176.68	5.961E-05	Pulse	0.10	3
Pb			1	-0.002	ug/l	-277.46	2,196.90	7.413E-04	Pulse	0.10	3
Pb			1	0.011	ug/l	71.66	1,813.52	6.119E-04	Pulse	0.10	3
Pb			1	0.005	ug/l	151.90	8,781.41	2.963E-03	Pulse	0.10	3
Na			2	0.026	ug/l	250.85	4,006.09	3.723E-02	Pulse	0.30	3
Mg			2	0.015	ug/l	25.20	773.36	7.188E-03	Pulse	0.30	3
Al			2	-0.085	ug/l	-180.18	318.89	2.963E-03	Pulse	0.30	3
K			2	2.401	ug/l	15.79	14,057.16	1.306E-01	Pulse	0.30	3
Ca			2	-0.149	ug/l	-409.26	82.22	7.648E-04	Pulse	0.30	3
Ti			2	0.000	ug/l	---	20.00	1.859E-04	Pulse	0.30	3
V			2	0.000	ug/l	---	393.34	3.654E-03	Pulse	0.30	3
Cr			2	0.000	ug/l	604.49	276.12	2.566E-03	Pulse	0.30	3
Mn			2	0.000	ug/l	-2792.24	176.67	1.640E-03	Pulse	0.30	3
Fe			2	0.399	ug/l	213.65	27,730.37	2.576E-01	Pulse	0.30	3
Co			2	0.000	ug/l	67256.33	46.59	4.334E-04	Pulse	0.30	3
Ni			2	0.065	ug/l	19.77	1,126.72	1.047E-02	Pulse	0.30	3
Cu			2	-0.003	ug/l	-509.07	1,252.29	1.165E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.176	ug/l	-105.83	7,069.37	6.570E-02	Pulse	0.30	3
As			2	0.004	ug/l	351.35	22.67	2.111E-04	Pulse	1.00	3
Cd			2	0.000	ug/l	767.63	6.67	9.668E-06	Pulse	0.30	3
Sn			2	0.164	ug/l	19.24	570.02	8.237E-04	Pulse	0.30	3
Se			3	0.000	ug/l	3131.97	4.00	4.150E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,980,003.85	1.59	100.0	Analog	0.10	3
1	Sc		2,662,477.67	1.05	100.0	Analog	0.10	3
1	Ge		538,346.23	0.33	100.0	Pulse	0.10	3
1	Ge		739,312.21	0.21	100.0	Pulse	0.10	3
1	Rh		3,498,762.86	0.76	100.0	Analog	0.10	3
1	In		3,539,889.25	0.60	100.0	Analog	0.10	3
1	Tb		4,764,259.72	1.12	100.0	Analog	0.10	3
1	Ho		4,671,608.47	1.85	100.0	Analog	0.10	3
1	Bi		2,963,805.48	0.96	100.0	Analog	0.10	3
2	Sc		107,597.45	1.06	100.0	Pulse	0.30	3
2	Ge		68,863.31	1.16	100.0	Pulse	0.30	3
2	Ge		104,007.73	1.46	100.0	Pulse	0.30	3
2	Rh		1,751,169.38	0.61	100.0	Analog	0.30	3
2	In		691,511.89	0.64	100.0	Pulse	0.30	3
2	Tb		2,351,169.07	0.18	100.0	Analog	0.30	3
2	Ho		2,375,899.63	0.38	100.0	Analog	0.30	3
2	Bi		1,630,932.44	0.67	100.0	Analog	0.30	3
3	Sc		95,081.26	0.17	100.0	Pulse	0.30	3
3	Ge		63,552.03	0.88	100.0	Pulse	0.30	3
3	Ge		96,363.52	0.44	100.0	Pulse	0.30	3
3	Rh		1,034,553.09	0.45	100.0	Pulse	0.30	3
3	Tb		1,756,568.82	0.66	100.0	Analog	0.30	3

Quantitation Report

File Name	015_QC1.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:50
Sample Name	ICVA
Sample Type	QC1
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	61.084	ug/l	2.22	548,064.16	1.836E-01	Pulse	0.25	3
B			1	119.102	ug/l	2.31	693,502.28	2.323E-01	Pulse	0.15	3
Ca			1	5313.712	ug/l	0.61	5,026,159.09	1.843E+00	Analog	0.10	3
Sr			1	60.939	ug/l	1.06	2,603,795.90	7.809E-01	Analog	0.10	3
Mo			1	58.695	ug/l	1.68	493,086.06	1.479E-01	Pulse	0.10	3
Ag			1	63.723	ug/l	1.00	1,307,224.41	3.795E-01	Analog	0.10	3
Sn			1	56.663	ug/l	1.14	770,919.68	2.238E-01	Pulse	0.10	3
Sb			1	59.509	ug/l	0.71	995,171.21	2.092E-01	Pulse	0.10	3
Ba			1	59.484	ug/l	1.59	386,003.16	8.114E-02	Pulse	0.10	3
Tl			1	63.690	ug/l	0.54	2,438,363.24	8.413E-01	Analog	0.10	3
Pb			1	60.821	ug/l	1.39	817,782.98	2.821E-01	Pulse	0.10	3
Pb			1	57.348	ug/l	1.04	675,151.21	2.329E-01	Pulse	0.10	3
Pb			1	60.152	ug/l	0.62	3,213,262.03	1.109E+00	Analog	0.10	3
Na			2	5304.992	ug/l	1.54	5,075,516.74	4.664E+01	Analog	0.30	3
Mg			2	5621.348	ug/l	2.11	2,592,611.14	2.383E+01	Analog	0.30	3
Al			2	5377.045	ug/l	2.00	863,225.12	7.933E+00	Pulse	0.30	3
K			2	5419.672	ug/l	2.24	1,792,506.18	1.647E+01	Analog	0.30	3
Ca			2	5541.826	ug/l	1.11	96,354.93	8.855E-01	Pulse	0.30	3
Ti			2	58.002	ug/l	1.86	7,161.63	6.581E-02	Pulse	0.30	3
V			2	60.924	ug/l	2.20	252,460.97	2.320E+00	Pulse	0.30	3
Cr			2	60.291	ug/l	0.84	316,734.99	2.911E+00	Pulse	0.30	3
Mn			2	60.014	ug/l	1.08	167,934.01	1.543E+00	Pulse	0.30	3
Fe			2	5390.285	ug/l	1.64	23,603,140.17	2.169E+02	Analog	0.30	3
Co			2	59.606	ug/l	1.29	518,599.70	4.766E+00	Pulse	0.30	3
Ni			2	59.527	ug/l	1.72	137,660.26	1.265E+00	Pulse	0.30	3
Cu			2	58.981	ug/l	0.99	371,976.82	3.418E+00	Pulse	0.30	3
Zn			2	58.374	ug/l	1.64	64,721.58	5.948E-01	Pulse	0.30	3
As			2	61.326	ug/l	1.28	33,268.71	3.057E-01	Pulse	1.00	3
Cd			2	59.865	ug/l	0.88	90,652.89	1.320E-01	Pulse	0.30	3
Sn			2	59.306	ug/l	1.27	188,964.80	2.752E-01	Pulse	0.30	3
Se			3	259.686	ug/l	1.28	21,545.80	2.246E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,986,461.02	1.50	100.2	Analog	0.10	3
1	Sc		2,727,207.15	0.85	102.4	Analog	0.10	3
1	Ge		545,086.48	0.60	101.3	Pulse	0.10	3

Quantitation Report

1	Ge		755,150.80	0.85	102.1	Pulse	0.10	3
1	Rh		3,334,758.18	1.51	95.3	Analog	0.10	3
1	In		3,445,038.94	0.45	97.3	Analog	0.10	3
1	Tb		4,757,226.38	1.05	99.9	Analog	0.10	3
1	Ho		4,702,066.18	0.58	100.7	Analog	0.10	3
1	Bi		2,898,515.79	0.29	97.8	Analog	0.10	3
2	Sc		108,826.29	1.25	101.1	Pulse	0.30	3
2	Ge		69,592.08	0.79	101.1	Pulse	0.30	3
2	Ge		104,184.50	0.77	100.2	Pulse	0.30	3
2	Rh		1,654,708.13	0.31	94.5	Analog	0.30	3
2	In		686,555.53	0.66	99.3	Pulse	0.30	3
2	Tb		2,328,870.53	0.86	99.1	Analog	0.30	3
2	Ho		2,349,785.32	0.22	98.9	Analog	0.30	3
2	Bi		1,594,781.22	1.04	97.8	Analog	0.30	3
3	Sc		96,437.77	0.88	101.4	Pulse	0.30	3
3	Ge		63,018.74	1.19	99.2	Pulse	0.30	3
3	Ge		95,926.49	0.95	99.5	Pulse	0.30	3
3	Rh		1,003,883.40	0.09	97.0	Pulse	0.30	3
3	Tb		1,722,705.59	1.63	98.1	Analog	0.30	3

Quantitation Report

File Name	016SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 12:54
Sample Name	ICV
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.015	ug/l	23.85	524.02	1.754E-04	Pulse	0.25	3
B			1	2.197	ug/l	4.75	17,767.40	5.945E-03	Pulse	0.15	3
Ca			1	3.133	ug/l	4.06	15,761.30	5.906E-03	Pulse	0.10	3
Sr			1	0.005	ug/l	98.28	796.72	2.298E-04	Pulse	0.10	3
Mo			1	0.033	ug/l	9.15	360.02	1.038E-04	Pulse	0.10	3
Ag			1	0.007	ug/l	56.16	163.34	4.600E-05	Pulse	0.10	3
Sn			1	0.196	ug/l	16.06	4,400.77	1.241E-03	Pulse	0.10	3
Sb			1	0.012	ug/l	71.77	536.69	1.132E-04	Pulse	0.10	3
Ba			1	-0.030	ug/l	-14.50	150.01	3.167E-05	Pulse	0.10	3
Tl			1	0.030	ug/l	7.86	1,343.44	4.557E-04	Pulse	0.10	3
Pb			1	0.012	ug/l	89.05	2,370.27	8.040E-04	Pulse	0.10	3
Pb			1	0.041	ug/l	32.20	2,170.24	7.361E-04	Pulse	0.10	3
Pb			1	0.025	ug/l	31.03	9,838.35	3.337E-03	Pulse	0.10	3
Na			2	1.432	ug/l	8.38	5,161.97	4.958E-02	Pulse	0.30	3
Mg			2	0.477	ug/l	34.21	952.26	9.146E-03	Pulse	0.30	3
Al			2	61.790	ug/l	3.94	9,809.63	9.422E-02	Pulse	0.30	3
K			2	3.483	ug/l	24.98	13,943.72	1.339E-01	Pulse	0.30	3
Ca			2	3.678	ug/l	37.23	143.34	1.376E-03	Pulse	0.30	3
Ti			2	0.062	ug/l	209.73	26.66	2.560E-04	Pulse	0.30	3
V			2	-0.002	ug/l	-103.54	372.23	3.574E-03	Pulse	0.30	3
Cr			2	0.000	ug/l	3573.22	266.32	2.557E-03	Pulse	0.30	3
Mn			2	0.002	ug/l	876.89	176.67	1.695E-03	Pulse	0.30	3
Fe			2	11.496	ug/l	22.18	73,237.06	7.037E-01	Pulse	0.30	3
Co			2	0.003	ug/l	108.76	70.91	6.814E-04	Pulse	0.30	3
Ni			2	0.108	ug/l	31.42	1,186.72	1.140E-02	Pulse	0.30	3
Cu			2	0.062	ug/l	16.99	1,604.54	1.541E-02	Pulse	0.30	3
Zn			2	1.050	ug/l	13.24	7,996.46	7.679E-02	Pulse	0.30	3
As			2	0.009	ug/l	57.70	25.00	2.402E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.009	ug/l	108.63	19.97	2.862E-05	Pulse	0.30	3
Sn			2	0.562	ug/l	20.06	1,856.80	2.668E-03	Pulse	0.30	3
Se			3	0.251	ug/l	23.06	24.67	2.581E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,988,463.30	1.04	100.3	Analog	0.10	3
1	Sc		2,668,688.29	1.16	100.2	Analog	0.10	3
1	Ge		547,894.29	0.59	101.8	Pulse	0.10	3
1	Ge		752,279.73	0.68	101.8	Pulse	0.10	3
1	Rh		3,466,405.47	0.95	99.1	Analog	0.10	3
1	In		3,547,799.43	0.53	100.2	Analog	0.10	3
1	Tb		4,740,525.97	0.76	99.5	Analog	0.10	3
1	Ho		4,687,680.24	1.64	100.3	Analog	0.10	3
1	Bi		2,948,617.56	0.61	99.5	Analog	0.10	3
2	Sc		104,134.70	0.76	96.8	Pulse	0.30	3
2	Ge		68,458.46	0.90	99.4	Pulse	0.30	3
2	Ge		103,553.49	0.29	99.6	Pulse	0.30	3
2	Rh		1,726,894.27	1.24	98.6	Analog	0.30	3
2	In		695,301.79	0.81	100.5	Pulse	0.30	3
2	Tb		2,346,830.81	1.20	99.8	Analog	0.30	3
2	Ho		2,347,798.79	0.74	98.8	Analog	0.30	3
2	Bi		1,630,726.43	0.81	100.0	Analog	0.30	3
3	Sc		93,471.42	1.23	98.3	Pulse	0.30	3
3	Ge		63,625.43	1.07	100.1	Pulse	0.30	3
3	Ge		95,648.35	0.83	99.3	Pulse	0.30	3
3	Rh		1,036,281.52	0.57	100.2	Pulse	0.30	3
3	Tb		1,752,849.30	0.25	99.8	Analog	0.30	3

Quantitation Report

File Name	017BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:11
Sample Name	ICB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.001	ug/l	-258.70	377.34	1.269E-04	Pulse	0.25	3
B			1	-0.244	ug/l	-22.39	3,622.72	1.218E-03	Pulse	0.15	3
Ca			1	-2.612	ug/l	-13.06	10,100.20	3.918E-03	Pulse	0.10	3
Sr			1	0.000	ug/l	414.49	596.71	1.751E-04	Pulse	0.10	3
Mo			1	0.018	ug/l	14.86	226.68	6.651E-05	Pulse	0.10	3
Ag			1	0.000	ug/l	227.15	30.00	8.523E-06	Pulse	0.10	3
Sn			1	0.092	ug/l	29.43	2,930.39	8.341E-04	Pulse	0.10	3
Sb			1	0.002	ug/l	142.98	376.69	7.979E-05	Pulse	0.10	3
Ba			1	-0.040	ug/l	-5.88	83.34	1.765E-05	Pulse	0.10	3
Tl			1	0.001	ug/l	66.63	216.68	7.454E-05	Pulse	0.10	3
Pb			1	0.010	ug/l	130.19	2,306.95	7.936E-04	Pulse	0.10	3
Pb			1	0.008	ug/l	170.49	1,753.50	6.029E-04	Pulse	0.10	3
Pb			1	0.004	ug/l	63.27	8,561.28	2.944E-03	Pulse	0.10	3
Na			2	-0.327	ug/l	-38.95	3,539.30	3.413E-02	Pulse	0.30	3
Mg			2	-0.124	ug/l	-120.36	684.47	6.602E-03	Pulse	0.30	3
Al			2	-1.172	ug/l	-9.79	141.11	1.360E-03	Pulse	0.30	3
K			2	3.289	ug/l	28.89	13,825.84	1.333E-01	Pulse	0.30	3
Ca			2	-2.125	ug/l	-58.60	46.66	4.494E-04	Pulse	0.30	3
Ti			2	0.044	ug/l	100.00	24.44	2.358E-04	Pulse	0.30	3
V			2	-0.002	ug/l	-456.68	372.23	3.589E-03	Pulse	0.30	3
Cr			2	0.028	ug/l	24.51	405.75	3.914E-03	Pulse	0.30	3
Mn			2	0.004	ug/l	169.74	182.23	1.758E-03	Pulse	0.30	3
Fe			2	5.108	ug/l	30.37	46,324.47	4.469E-01	Pulse	0.30	3
Co			2	0.002	ug/l	78.78	63.21	6.093E-04	Pulse	0.30	3
Ni			2	0.047	ug/l	50.55	1,047.82	1.011E-02	Pulse	0.30	3
Cu			2	-0.039	ug/l	-26.46	996.71	9.612E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.772	ug/l	-31.03	6,254.60	6.032E-02	Pulse	0.30	3
As			2	-0.006	ug/l	-111.34	17.00	1.639E-04	Pulse	1.00	3
Cd			2	0.013	ug/l	9.79	25.54	3.735E-05	Pulse	0.30	3
Sn			2	0.404	ug/l	10.96	1,322.29	1.933E-03	Pulse	0.30	3
Se			3	0.049	ug/l	43.86	7.73	8.359E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,973,546.00	1.35	99.8	Analog	0.10	3
1	Sc		2,576,575.07	3.18	96.8	Analog	0.10	3
1	Ge		523,454.52	0.92	97.2	Pulse	0.10	3
1	Ge		717,790.80	0.72	97.1	Pulse	0.10	3
1	Rh		3,408,599.53	0.27	97.4	Analog	0.10	3
1	In		3,512,747.29	0.65	99.2	Analog	0.10	3
1	Tb		4,719,466.91	0.43	99.1	Analog	0.10	3
1	Ho		4,667,244.41	0.46	99.9	Analog	0.10	3
1	Bi		2,908,264.75	0.86	98.1	Analog	0.10	3
2	Sc		103,704.23	0.58	96.4	Pulse	0.30	3
2	Ge		67,472.00	0.51	98.0	Pulse	0.30	3
2	Ge		101,802.72	0.96	97.9	Pulse	0.30	3
2	Rh		1,747,279.90	0.88	99.8	Analog	0.30	3
2	In		683,785.43	0.61	98.9	Pulse	0.30	3
2	Tb		2,368,236.43	0.85	100.7	Analog	0.30	3
2	Ho		2,396,094.97	1.12	100.9	Analog	0.30	3
2	Bi		1,656,299.52	0.35	101.6	Analog	0.30	3
3	Sc		91,516.72	1.38	96.3	Pulse	0.30	3
3	Ge		61,401.65	1.58	96.6	Pulse	0.30	3
3	Ge		92,486.95	0.90	96.0	Pulse	0.30	3
3	Rh		1,002,093.68	0.61	96.9	Pulse	0.30	3
3	Tb		1,746,893.33	0.43	99.4	Analog	0.30	3

Quantitation Report

File Name	018_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:15
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	52.203	ug/l	1.47	462,147.55	1.569E-01	Pulse	0.25	3
B			1	100.579	ug/l	2.09	578,509.20	1.964E-01	Pulse	0.15	3
Ca			1	5218.384	ug/l	1.22	4,908,094.51	1.810E+00	Analog	0.10	3
Sr			1	52.724	ug/l	1.26	2,237,018.25	6.756E-01	Analog	0.10	3
Mo			1	51.388	ug/l	0.79	428,714.50	1.295E-01	Pulse	0.10	3
Ag			1	53.098	ug/l	1.27	1,070,632.02	3.162E-01	Pulse	0.10	3
Sn			1	49.449	ug/l	1.19	661,468.13	1.954E-01	Pulse	0.10	3
Sb			1	51.404	ug/l	0.20	844,618.37	1.807E-01	Pulse	0.10	3
Ba			1	50.092	ug/l	0.41	319,416.91	6.834E-02	Pulse	0.10	3
Tl			1	53.322	ug/l	2.17	2,001,461.69	7.043E-01	Analog	0.10	3
Pb			1	50.961	ug/l	1.02	672,205.04	2.365E-01	Pulse	0.10	3
Pb			1	49.802	ug/l	1.15	575,102.37	2.024E-01	Pulse	0.10	3
Pb			1	52.138	ug/l	1.18	2,731,832.34	9.613E-01	Analog	0.10	3
Na			2	5115.773	ug/l	1.34	5,106,420.07	4.498E+01	Analog	0.30	3
Mg			2	5168.642	ug/l	0.81	2,487,039.90	2.191E+01	Analog	0.30	3
Al			2	4982.861	ug/l	1.33	834,612.09	7.352E+00	Pulse	0.30	3
K			2	5192.830	ug/l	1.84	1,792,497.15	1.579E+01	Analog	0.30	3
Ca			2	5211.969	ug/l	1.46	94,542.58	8.328E-01	Pulse	0.30	3
Ti			2	49.714	ug/l	1.84	6,406.88	5.643E-02	Pulse	0.30	3
V			2	49.799	ug/l	1.00	215,378.23	1.897E+00	Pulse	0.30	3
Cr			2	48.940	ug/l	0.57	268,278.30	2.363E+00	Pulse	0.30	3
Mn			2	48.906	ug/l	1.16	142,799.68	1.258E+00	Pulse	0.30	3
Fe			2	5061.341	ug/l	1.78	23,122,605.19	2.037E+02	Analog	0.30	3
Co			2	48.416	ug/l	0.68	439,489.74	3.871E+00	Pulse	0.30	3
Ni			2	48.219	ug/l	1.51	116,530.45	1.027E+00	Pulse	0.30	3
Cu			2	47.672	ug/l	1.21	313,912.90	2.765E+00	Pulse	0.30	3
Zn			2	46.287	ug/l	1.34	55,123.33	4.856E-01	Pulse	0.30	3
As			2	49.400	ug/l	0.73	27,963.52	2.463E-01	Pulse	1.00	3
Cd			2	51.166	ug/l	1.02	76,909.74	1.129E-01	Pulse	0.30	3
Sn			2	51.664	ug/l	0.29	163,417.84	2.398E-01	Pulse	0.30	3
Se			3	209.442	ug/l	0.73	17,114.66	1.812E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,946,045.91	1.09	98.9	Analog	0.10	3
1	Sc		2,711,875.17	1.33	101.9	Analog	0.10	3
1	Ge		529,858.25	0.75	98.4	Pulse	0.10	3

Quantitation Report

1	Ge		726,967.18	0.97	98.3	Pulse	0.10	3
1	Rh		3,311,026.62	0.28	94.6	Analog	0.10	3
1	In		3,386,106.58	0.44	95.7	Analog	0.10	3
1	Tb		4,673,891.39	0.71	98.1	Analog	0.10	3
1	Ho		4,579,257.95	0.94	98.0	Analog	0.10	3
1	Bi		2,842,114.64	1.12	95.9	Analog	0.10	3
2	Sc		113,529.88	0.89	105.5	Pulse	0.30	3
2	Ge		69,399.90	0.22	100.8	Pulse	0.30	3
2	Ge		103,977.68	1.00	100.0	Pulse	0.30	3
2	Rh		1,680,417.05	1.45	96.0	Analog	0.30	3
2	In		681,512.12	0.88	98.6	Pulse	0.30	3
2	Tb		2,339,520.32	0.65	99.5	Analog	0.30	3
2	Ho		2,343,837.89	0.93	98.7	Analog	0.30	3
2	Bi		1,592,839.80	0.64	97.7	Analog	0.30	3
3	Sc		100,027.48	0.72	105.2	Pulse	0.30	3
3	Ge		61,533.27	0.58	96.8	Pulse	0.30	3
3	Ge		94,468.00	0.94	98.0	Pulse	0.30	3
3	Rh		999,504.23	0.83	96.6	Pulse	0.30	3
3	Tb		1,740,629.86	0.26	99.1	Analog	0.30	3

Quantitation Report

File Name	019BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:18
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.016	ug/l	84.84	521.35	1.766E-04	Pulse	0.25	3
B			1	1.754	ug/l	8.70	14,998.12	5.087E-03	Pulse	0.15	3
Ca			1	-2.138	ug/l	-18.86	10,693.81	4.082E-03	Pulse	0.10	3
Sr			1	0.003	ug/l	65.53	700.04	2.069E-04	Pulse	0.10	3
Mo			1	0.030	ug/l	21.60	326.68	9.659E-05	Pulse	0.10	3
Ag			1	0.005	ug/l	22.20	123.34	3.554E-05	Pulse	0.10	3
Sn			1	0.262	ug/l	25.73	5,217.74	1.504E-03	Pulse	0.10	3
Sb			1	0.025	ug/l	14.98	750.05	1.604E-04	Pulse	0.10	3
Ba			1	-0.038	ug/l	-15.19	96.67	2.075E-05	Pulse	0.10	3
Tl			1	0.039	ug/l	4.04	1,640.15	5.695E-04	Pulse	0.10	3
Pb			1	0.008	ug/l	102.45	2,256.93	7.838E-04	Pulse	0.10	3
Pb			1	0.038	ug/l	27.91	2,080.23	7.226E-04	Pulse	0.10	3
Pb			1	0.019	ug/l	42.61	9,271.49	3.220E-03	Pulse	0.10	3
Na			2	0.473	ug/l	6.27	4,378.40	4.116E-02	Pulse	0.30	3
Mg			2	0.031	ug/l	248.29	772.25	7.257E-03	Pulse	0.30	3
Al			2	-0.034	ug/l	-1004.12	323.34	3.038E-03	Pulse	0.30	3
K			2	1.388	ug/l	70.71	13,574.55	1.276E-01	Pulse	0.30	3
Ca			2	-1.993	ug/l	-21.20	50.00	4.704E-04	Pulse	0.30	3
Ti			2	0.084	ug/l	84.17	30.00	2.814E-04	Pulse	0.30	3
V			2	-0.015	ug/l	-54.19	327.78	3.079E-03	Pulse	0.30	3
Cr			2	0.009	ug/l	118.81	316.45	2.973E-03	Pulse	0.30	3
Mn			2	0.003	ug/l	594.28	182.23	1.715E-03	Pulse	0.30	3
Fe			2	9.563	ug/l	22.94	66,578.76	6.260E-01	Pulse	0.30	3
Co			2	0.005	ug/l	58.88	84.27	7.935E-04	Pulse	0.30	3
Ni			2	0.034	ug/l	41.29	1,046.72	9.838E-03	Pulse	0.30	3
Cu			2	-0.038	ug/l	-24.52	1,026.72	9.654E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.980	ug/l	-19.52	6,219.03	5.845E-02	Pulse	0.30	3
As			2	0.038	ug/l	22.71	40.67	3.821E-04	Pulse	1.00	3
Cd			2	0.016	ug/l	94.42	31.09	4.492E-05	Pulse	0.30	3
Sn			2	0.699	ug/l	14.95	2,292.42	3.305E-03	Pulse	0.30	3
Se			3	0.265	ug/l	13.70	25.53	2.706E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,948,977.29	0.77	99.0	Analog	0.10	3
1	Sc		2,620,371.00	1.23	98.4	Analog	0.10	3
1	Ge		532,022.55	1.42	98.8	Pulse	0.10	3
1	Ge		736,540.43	1.72	99.6	Pulse	0.10	3
1	Rh		3,383,441.72	0.32	96.7	Analog	0.10	3
1	In		3,468,912.21	0.37	98.0	Analog	0.10	3
1	Tb		4,674,001.39	1.28	98.1	Analog	0.10	3
1	Ho		4,585,107.85	0.92	98.1	Analog	0.10	3
1	Bi		2,881,066.83	1.83	97.2	Analog	0.10	3
2	Sc		106,390.99	1.02	98.9	Pulse	0.30	3
2	Ge		69,218.04	1.24	100.5	Pulse	0.30	3
2	Ge		102,332.63	0.64	98.4	Pulse	0.30	3
2	Rh		1,716,989.97	0.20	98.0	Analog	0.30	3
2	In		693,357.70	0.36	100.3	Pulse	0.30	3
2	Tb		2,356,550.95	1.05	100.2	Analog	0.30	3
2	Ho		2,368,734.98	0.33	99.7	Analog	0.30	3
2	Bi		1,618,987.95	0.63	99.3	Analog	0.30	3
3	Sc		94,419.92	0.58	99.3	Pulse	0.30	3
3	Ge		61,805.35	0.88	97.3	Pulse	0.30	3
3	Ge		94,339.74	0.38	97.9	Pulse	0.30	3
3	Rh		1,023,758.92	0.17	99.0	Pulse	0.30	3
3	Tb		1,742,587.50	0.81	99.2	Analog	0.30	3

Quantitation Report

File Name	020SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:22
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.001	ug/l	385.14	388.01	1.329E-04	Pulse	0.25	3
B			1	0.323	ug/l	8.32	6,765.96	2.316E-03	Pulse	0.15	3
Ca			1	0.414	ug/l	45.38	13,088.91	4.965E-03	Pulse	0.10	3
Sr			1	0.012	ug/l	5.86	1,096.75	3.202E-04	Pulse	0.10	3
Mo			1	0.013	ug/l	34.92	176.68	5.157E-05	Pulse	0.10	3
Ag			1	0.002	ug/l	27.18	60.00	1.732E-05	Pulse	0.10	3
Sn			1	0.058	ug/l	37.17	2,420.28	6.971E-04	Pulse	0.10	3
Sb			1	0.004	ug/l	33.08	396.69	8.512E-05	Pulse	0.10	3
Ba			1	0.018	ug/l	61.05	446.69	9.588E-05	Pulse	0.10	3
Tl			1	0.009	ug/l	12.97	493.36	1.700E-04	Pulse	0.10	3
Pb			1	0.019	ug/l	101.71	2,426.97	8.365E-04	Pulse	0.10	3
Pb			1	0.021	ug/l	37.47	1,896.85	6.531E-04	Pulse	0.10	3
Pb			1	0.018	ug/l	41.84	9,308.19	3.207E-03	Pulse	0.10	3
Na			2	1.072	ug/l	16.15	4,916.34	4.641E-02	Pulse	0.30	3
Mg			2	0.398	ug/l	25.45	934.48	8.813E-03	Pulse	0.30	3
Al			2	-0.005	ug/l	-4179.04	326.67	3.081E-03	Pulse	0.30	3
K			2	1.605	ug/l	54.24	13,587.86	1.282E-01	Pulse	0.30	3
Ca			2	0.241	ug/l	427.47	87.78	8.271E-04	Pulse	0.30	3
Ti			2	-0.109	ug/l	-0.99	6.67	6.296E-05	Pulse	0.30	3
V			2	-0.004	ug/l	-63.14	372.23	3.514E-03	Pulse	0.30	3
Cr			2	-0.003	ug/l	-378.33	256.13	2.423E-03	Pulse	0.30	3
Mn			2	0.017	ug/l	57.36	221.12	2.088E-03	Pulse	0.30	3
Fe			2	0.361	ug/l	198.53	27,171.56	2.561E-01	Pulse	0.30	3
Co			2	0.004	ug/l	59.68	83.26	7.836E-04	Pulse	0.30	3
Ni			2	0.035	ug/l	67.84	1,043.38	9.851E-03	Pulse	0.30	3
Cu			2	-0.026	ug/l	-49.33	1,093.38	1.033E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.129	ug/l	-125.74	7,009.35	6.613E-02	Pulse	0.30	3
As			2	0.009	ug/l	141.59	25.33	2.391E-04	Pulse	1.00	3
Cd			2	0.017	ug/l	27.28	32.21	4.677E-05	Pulse	0.30	3
Sn			2	0.277	ug/l	10.59	928.93	1.347E-03	Pulse	0.30	3
Se			3	0.072	ug/l	12.50	9.80	1.033E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,921,476.41	1.72	98.0	Analog	0.10	3
1	Sc		2,636,123.24	1.90	99.0	Analog	0.10	3
1	Ge		535,474.54	1.38	99.5	Pulse	0.10	3
1	Ge		739,720.90	0.31	100.1	Pulse	0.10	3
1	Rh		3,425,560.05	0.10	97.9	Analog	0.10	3
1	In		3,468,711.15	1.08	98.0	Analog	0.10	3
1	Tb		4,660,591.39	0.50	97.8	Analog	0.10	3
1	Ho		4,618,256.49	0.70	98.9	Analog	0.10	3
1	Bi		2,903,650.37	1.17	98.0	Analog	0.10	3
2	Sc		105,963.90	1.94	98.5	Pulse	0.30	3
2	Ge		68,162.58	1.27	99.0	Pulse	0.30	3
2	Ge		102,792.27	1.08	98.8	Pulse	0.30	3
2	Rh		1,718,483.82	0.59	98.1	Analog	0.30	3
2	In		689,393.18	0.75	99.7	Pulse	0.30	3
2	Tb		2,318,718.03	0.56	98.6	Analog	0.30	3
2	Ho		2,360,666.64	0.10	99.4	Analog	0.30	3
2	Bi		1,619,003.58	0.84	99.3	Analog	0.30	3
3	Sc		93,588.28	1.22	98.4	Pulse	0.30	3
3	Ge		62,715.50	1.00	98.7	Pulse	0.30	3
3	Ge		94,902.94	0.81	98.5	Pulse	0.30	3
3	Rh		1,026,674.16	0.79	99.2	Pulse	0.30	3
3	Tb		1,736,772.78	0.79	98.9	Analog	0.30	3

Quantitation Report

File Name	021_QC3.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:25
Sample Name	CRI
Sample Type	QC3
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.516	ug/l	5.92	4,975.47	1.680E-03	Pulse	0.25	3
B			1	24.752	ug/l	0.94	146,920.73	4.961E-02	Pulse	0.15	3
Ca			1	255.236	ug/l	1.44	245,916.83	9.312E-02	Pulse	0.10	3
Sr			1	4.930	ug/l	0.29	218,035.95	6.333E-02	Pulse	0.10	3
Mo			1	1.012	ug/l	0.54	8,846.14	2.569E-03	Pulse	0.10	3
Ag			1	0.495	ug/l	3.55	10,287.00	2.951E-03	Pulse	0.10	3
Sn			1	4.655	ug/l	1.51	65,590.92	1.882E-02	Pulse	0.10	3
Sb			1	1.857	ug/l	2.40	31,044.96	6.599E-03	Pulse	0.10	3
Ba			1	0.953	ug/l	2.80	6,451.56	1.371E-03	Pulse	0.10	3
Tl			1	0.506	ug/l	1.48	19,647.12	6.735E-03	Pulse	0.10	3
Pb			1	0.495	ug/l	2.96	8,859.66	3.037E-03	Pulse	0.10	3
Pb			1	0.511	ug/l	5.07	7,698.98	2.640E-03	Pulse	0.10	3
Pb			1	0.503	ug/l	1.05	35,337.90	1.211E-02	Pulse	0.10	3
Na			2	251.662	ug/l	0.76	237,012.21	2.248E+00	Pulse	0.30	3
Mg			2	251.837	ug/l	1.48	113,248.27	1.074E+00	Pulse	0.30	3
Al			2	26.568	ug/l	3.27	4,458.43	4.227E-02	Pulse	0.30	3
K			2	249.101	ug/l	1.83	92,240.84	8.749E-01	Pulse	0.30	3
Ca			2	268.166	ug/l	6.89	4,597.37	4.360E-02	Pulse	0.30	3
Ti			2	0.945	ug/l	11.14	132.22	1.255E-03	Pulse	0.30	3
V			2	1.053	ug/l	4.50	4,607.37	4.371E-02	Pulse	0.30	3
Cr			2	1.038	ug/l	0.69	5,546.24	5.260E-02	Pulse	0.30	3
Mn			2	1.049	ug/l	3.02	3,015.86	2.859E-02	Pulse	0.30	3
Fe			2	23.848	ug/l	3.22	126,533.07	1.200E+00	Pulse	0.30	3
Co			2	0.506	ug/l	4.03	4,310.28	4.087E-02	Pulse	0.30	3
Ni			2	1.064	ug/l	8.56	3,327.04	3.156E-02	Pulse	0.30	3
Cu			2	2.058	ug/l	3.11	13,777.02	1.307E-01	Pulse	0.30	3
Zn			2	5.854	ug/l	1.75	12,672.80	1.202E-01	Pulse	0.30	3
As			2	0.537	ug/l	0.94	302.67	2.870E-03	Pulse	1.00	3
Cd			2	0.487	ug/l	4.69	751.76	1.083E-03	Pulse	0.30	3
Sn			2	4.914	ug/l	2.16	15,875.89	2.286E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.552	ug/l	2.42	49.53	5.190E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,961,602.23	0.57	99.4	Analog	0.10	3
1	Sc		2,641,465.74	2.33	99.2	Analog	0.10	3
1	Ge		541,351.53	1.13	100.6	Pulse	0.10	3
1	Ge		746,108.89	1.37	100.9	Pulse	0.10	3
1	Rh		3,442,811.30	1.30	98.4	Analog	0.10	3
1	In		3,486,310.69	1.49	98.5	Analog	0.10	3
1	Tb		4,705,053.99	1.17	98.8	Analog	0.10	3
1	Ho		4,689,642.22	1.45	100.4	Analog	0.10	3
1	Bi		2,917,049.43	0.54	98.4	Analog	0.10	3
2	Sc		105,440.55	1.49	98.0	Pulse	0.30	3
2	Ge		69,016.21	0.76	100.2	Pulse	0.30	3
2	Ge		103,765.15	1.42	99.8	Pulse	0.30	3
2	Rh		1,729,227.05	0.17	98.7	Analog	0.30	3
2	In		694,484.82	0.27	100.4	Pulse	0.30	3
2	Tb		2,343,544.49	0.25	99.7	Analog	0.30	3
2	Ho		2,380,226.85	1.47	100.2	Analog	0.30	3
2	Bi		1,638,187.23	0.84	100.4	Analog	0.30	3
3	Sc		92,708.35	0.34	97.5	Pulse	0.30	3
3	Ge		63,084.64	0.32	99.3	Pulse	0.30	3
3	Ge		95,435.91	0.92	99.0	Pulse	0.30	3
3	Rh		1,031,452.39	0.30	99.7	Pulse	0.30	3
3	Tb		1,757,269.03	0.60	100.0	Analog	0.30	3

Quantitation Report

File Name	022_QC4.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:28
Sample Name	ICSA
Sample Type	QC4
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.004	ug/l	258.26	374.68	1.404E-04	Pulse	0.25	3
B			1	1.930	ug/l	4.87	14,482.05	5.427E-03	Pulse	0.15	3
Ca			1	86036.012	ug/l	1.60	78,195,270.50	2.977E+01	Analog	0.10	3
Sr			1	2047.923	ug/l	0.86	75,042,325.55	2.624E+01	Analog	0.10	3
Mo			1	2030.155	ug/l	0.92	14,627,779.78	5.114E+00	Analog	0.10	3
Ag			1	0.032	ug/l	8.06	546.69	1.960E-04	Pulse	0.10	3
Sn			1	1964.578	ug/l	0.49	21,597,095.51	7.743E+00	Analog	0.10	3
Sb			1	0.074	ug/l	5.98	1,480.13	3.327E-04	Pulse	0.10	3
Ba			1	0.546	ug/l	7.35	3,630.59	8.162E-04	Pulse	0.10	3
Tl			1	0.014	ug/l	12.06	613.37	2.433E-04	Pulse	0.10	3
Pb			1	0.160	ug/l	12.57	3,757.28	1.490E-03	Pulse	0.10	3
Pb			1	0.174	ug/l	13.34	3,207.14	1.272E-03	Pulse	0.10	3
Pb			1	0.170	ug/l	5.27	15,106.95	5.992E-03	Pulse	0.10	3
Na			2	84684.904	ug/l	2.13	78,843,476.87	7.440E+02	Analog	0.30	3
Mg			2	83865.822	ug/l	1.42	37,658,169.61	3.554E+02	Analog	0.30	3
Al			2	84412.808	ug/l	1.87	13,193,011.70	1.245E+02	Analog	0.30	3
K			2	83976.491	ug/l	2.17	26,859,804.49	2.535E+02	Analog	0.30	3
Ca			2	94889.492	ug/l	1.40	1,605,392.19	1.515E+01	Analog	0.30	3
Ti			2	1738.105	ug/l	1.98	208,421.89	1.967E+00	Pulse	0.30	3
V			2	0.010	ug/l	62.14	427.79	4.038E-03	Pulse	0.30	3
Cr			2	0.425	ug/l	11.64	2,443.85	2.305E-02	Pulse	0.30	3
Mn			2	0.446	ug/l	3.43	1,390.08	1.311E-02	Pulse	0.30	3
Fe			2	83272.987	ug/l	1.98	354,728,421.46	3.348E+03	Analog	0.30	3
Co			2	0.047	ug/l	17.97	443.43	4.187E-03	Pulse	0.30	3
Ni			2	0.756	ug/l	8.81	2,655.81	2.507E-02	Pulse	0.30	3
Cu			2	0.027	ug/l	81.89	1,422.30	1.342E-02	Pulse	0.30	3
Zn			2	1.815	ug/l	6.21	8,870.27	8.370E-02	Pulse	0.30	3
As			2	0.093	ug/l	1.46	69.67	6.574E-04	Pulse	1.00	3
Cd			2	-0.227	ug/l	-23.96	-253.24	-4.914E-04	Pulse	0.30	3
Sn			2	2159.564	ug/l	1.28	5,162,042.29	1.002E+01	Analog	0.30	3
Se			3	0.184	ug/l	13.17	16.53	2.006E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,668,802.52	1.16	89.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,626,942.88	0.35	98.7	Analog	0.10	3
1	Ge		509,809.69	0.43	94.7	Pulse	0.10	3
1	Ge		658,395.21	0.55	89.1	Pulse	0.10	3
1	Rh		2,860,193.81	0.88	81.7	Analog	0.10	3
1	In		2,789,287.17	0.82	78.8	Analog	0.10	3
1	Tb		4,450,612.33	1.57	93.4	Analog	0.10	3
1	Ho		4,413,889.31	0.91	94.5	Analog	0.10	3
1	Bi		2,521,141.11	0.26	85.1	Analog	0.10	3
2	Sc		105,980.67	0.99	98.5	Pulse	0.30	3
2	Ge		60,536.18	0.11	87.9	Pulse	0.30	3
2	Ge		88,757.94	0.64	85.3	Pulse	0.30	3
2	Rh		1,388,063.45	0.15	79.3	Analog	0.30	3
2	In		515,120.56	0.26	74.5	Pulse	0.30	3
2	Tb		2,149,173.39	1.32	91.4	Analog	0.30	3
2	Ho		2,172,273.25	0.80	91.4	Analog	0.30	3
2	Bi		1,342,734.46	0.75	82.3	Analog	0.30	3
3	Sc		97,811.30	0.35	102.9	Pulse	0.30	3
3	Ge		55,558.48	1.25	87.4	Pulse	0.30	3
3	Ge		82,383.29	0.84	85.5	Pulse	0.30	3
3	Rh		827,300.23	0.42	80.0	Pulse	0.30	3
3	Tb		1,577,196.50	0.65	89.8	Analog	0.30	3

Quantitation Report

File Name	023_QC5.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:32
Sample Name	ICSAB
Sample Type	QC5
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.001	ug/l	-426.89	316.01	1.257E-04	Pulse	0.25	3
B			1	50.419	ug/l	1.15	249,556.79	9.929E-02	Pulse	0.15	3
Ca			1	91810.179	ug/l	0.11	75,992,173.87	3.177E+01	Analog	0.10	3
Sr			1	2060.280	ug/l	0.71	73,525,773.90	2.640E+01	Analog	0.10	3
Mo			1	2048.308	ug/l	0.24	14,373,507.70	5.160E+00	Analog	0.10	3
Ag			1	20.963	ug/l	0.82	337,931.51	1.248E-01	Pulse	0.10	3
Sn			1	1981.496	ug/l	0.32	21,142,044.68	7.810E+00	Analog	0.10	3
Sb			1	0.094	ug/l	10.70	1,736.84	4.020E-04	Pulse	0.10	3
Ba			1	0.510	ug/l	3.11	3,310.48	7.667E-04	Pulse	0.10	3
Tl			1	0.012	ug/l	16.29	523.36	2.148E-04	Pulse	0.10	3
Pb			1	0.222	ug/l	14.22	4,324.14	1.774E-03	Pulse	0.10	3
Pb			1	0.223	ug/l	5.03	3,590.55	1.473E-03	Pulse	0.10	3
Pb			1	0.232	ug/l	1.41	17,414.75	7.145E-03	Pulse	0.10	3
Na			2	90952.862	ug/l	1.28	75,939,208.09	7.991E+02	Analog	0.30	3
Mg			2	90035.454	ug/l	0.87	36,254,519.67	3.815E+02	Analog	0.30	3
Al			2	90932.043	ug/l	0.96	12,744,882.27	1.341E+02	Analog	0.30	3
K			2	90296.314	ug/l	1.24	25,899,908.42	2.725E+02	Analog	0.30	3
Ca			2	103244.441	ug/l	1.37	1,566,369.90	1.648E+01	Analog	0.30	3
Ti			2	1861.383	ug/l	0.83	200,159.84	2.106E+00	Pulse	0.30	3
V			2	20.424	ug/l	1.22	74,146.88	7.802E-01	Pulse	0.30	3
Cr			2	20.163	ug/l	1.39	92,662.19	9.751E-01	Pulse	0.30	3
Mn			2	19.906	ug/l	1.78	48,747.27	5.130E-01	Pulse	0.30	3
Fe			2	90203.492	ug/l	1.12	344,592,537.42	3.626E+03	Analog	0.30	3
Co			2	19.169	ug/l	0.97	145,682.51	1.533E+00	Pulse	0.30	3
Ni			2	19.364	ug/l	1.88	39,693.35	4.177E-01	Pulse	0.30	3
Cu			2	18.106	ug/l	0.94	100,500.09	1.058E+00	Pulse	0.30	3
Zn			2	22.771	ug/l	2.30	25,951.76	2.731E-01	Pulse	0.30	3
As			2	19.407	ug/l	0.54	9,207.61	9.689E-02	Pulse	1.00	3
Cd			2	21.883	ug/l	0.95	24,323.17	4.827E-02	Pulse	0.30	3
Sn			2	2195.628	ug/l	0.85	5,133,627.57	1.019E+01	Analog	0.30	3
Se			3	21.909	ug/l	0.96	1,533.20	1.899E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,513,461.46	0.94	84.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,392,297.72	0.88	89.9	Analog	0.10	3
1	Ge		491,923.78	0.61	91.4	Pulse	0.10	3
1	Ge		641,631.41	1.42	86.8	Pulse	0.10	3
1	Rh		2,785,491.94	0.59	79.6	Analog	0.10	3
1	In		2,707,208.24	1.26	76.5	Analog	0.10	3
1	Tb		4,318,554.00	0.70	90.6	Analog	0.10	3
1	Ho		4,293,653.58	0.18	91.9	Analog	0.10	3
1	Bi		2,437,321.79	0.42	82.2	Analog	0.10	3
2	Sc		95,033.14	0.47	88.3	Pulse	0.30	3
2	Ge		58,338.10	0.63	84.7	Pulse	0.30	3
2	Ge		87,155.71	1.18	83.8	Pulse	0.30	3
2	Rh		1,357,287.69	0.51	77.5	Analog	0.30	3
2	In		503,884.21	0.15	72.9	Pulse	0.30	3
2	Tb		2,109,008.25	0.76	89.7	Analog	0.30	3
2	Ho		2,147,009.77	0.99	90.4	Analog	0.30	3
2	Bi		1,330,391.16	1.26	81.6	Analog	0.30	3
3	Sc		85,860.73	0.77	90.3	Pulse	0.30	3
3	Ge		54,490.48	0.46	85.7	Pulse	0.30	3
3	Ge		80,746.26	0.83	83.8	Pulse	0.30	3
3	Rh		819,103.41	0.16	79.2	Pulse	0.30	3
3	Tb		1,569,446.47	1.06	89.3	Analog	0.30	3

Quantitation Report

File Name	024SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:38
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.006	ug/l	-97.46	298.68	1.120E-04	Pulse	0.25	3
B			1	-0.021	ug/l	-186.67	4,400.69	1.650E-03	Pulse	0.15	3
Ca			1	-0.076	ug/l	-146.41	11,441.06	4.795E-03	Pulse	0.10	3
Sr			1	0.031	ug/l	11.95	1,780.17	5.643E-04	Pulse	0.10	3
Mo			1	0.346	ug/l	11.41	2,813.69	8.907E-04	Pulse	0.10	3
Ag			1	0.003	ug/l	76.02	80.00	2.453E-05	Pulse	0.10	3
Sn			1	0.290	ug/l	22.35	5,264.40	1.613E-03	Pulse	0.10	3
Sb			1	0.006	ug/l	97.62	410.02	9.267E-05	Pulse	0.10	3
Ba			1	0.030	ug/l	33.35	500.03	1.129E-04	Pulse	0.10	3
Tl			1	0.002	ug/l	126.85	223.34	8.100E-05	Pulse	0.10	3
Pb			1	0.016	ug/l	12.90	2,263.59	8.225E-04	Pulse	0.10	3
Pb			1	0.011	ug/l	72.01	1,683.49	6.118E-04	Pulse	0.10	3
Pb			1	0.011	ug/l	29.96	8,467.93	3.077E-03	Pulse	0.10	3
Na			2	5.710	ug/l	1.26	8,235.43	8.716E-02	Pulse	0.30	3
Mg			2	2.446	ug/l	12.33	1,652.33	1.749E-02	Pulse	0.30	3
Al			2	10.229	ug/l	16.09	1,717.89	1.818E-02	Pulse	0.30	3
K			2	1.824	ug/l	44.75	12,178.97	1.289E-01	Pulse	0.30	3
Ca			2	4.127	ug/l	43.61	136.67	1.447E-03	Pulse	0.30	3
Ti			2	1.800	ug/l	25.99	210.00	2.222E-03	Pulse	0.30	3
V			2	-0.019	ug/l	-13.02	277.78	2.940E-03	Pulse	0.30	3
Cr			2	-0.001	ug/l	-1330.82	236.83	2.507E-03	Pulse	0.30	3
Mn			2	0.015	ug/l	20.92	193.34	2.046E-03	Pulse	0.30	3
Fe			2	50.420	ug/l	14.97	214,345.59	2.268E+00	Pulse	0.30	3
Co			2	0.002	ug/l	168.04	53.87	5.703E-04	Pulse	0.30	3
Ni			2	0.005	ug/l	133.85	871.14	9.220E-03	Pulse	0.30	3
Cu			2	-0.030	ug/l	-61.88	953.38	1.009E-02	Pulse	0.30	3
Zn			2	-0.243	ug/l	-134.59	6,151.24	6.510E-02	Pulse	0.30	3
As			2	0.002	ug/l	637.55	19.33	2.049E-04	Pulse	1.00	3
Cd			2	0.013	ug/l	31.83	23.13	3.672E-05	Pulse	0.30	3
Sn			2	0.758	ug/l	6.50	2,252.41	3.578E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.025	ug/l	119.23	5.47	6.314E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,667,168.80	1.48	89.5	Analog	0.10	3
1	Sc		2,385,871.16	1.15	89.6	Analog	0.10	3
1	Ge		484,868.28	0.69	90.1	Pulse	0.10	3
1	Ge		672,948.48	1.34	91.0	Pulse	0.10	3
1	Rh		3,156,556.51	1.17	90.2	Analog	0.10	3
1	In		3,263,116.89	0.23	92.2	Analog	0.10	3
1	Tb		4,428,472.85	0.74	93.0	Analog	0.10	3
1	Ho		4,357,353.79	0.51	93.3	Analog	0.10	3
1	Bi		2,752,204.23	0.75	92.9	Analog	0.10	3
2	Sc		94,488.08	0.64	87.8	Pulse	0.30	3
2	Ge		61,613.52	0.81	89.5	Pulse	0.30	3
2	Ge		92,580.55	0.23	89.0	Pulse	0.30	3
2	Rh		1,596,595.87	0.51	91.2	Analog	0.30	3
2	In		629,306.22	0.84	91.0	Pulse	0.30	3
2	Tb		2,199,083.11	0.27	93.5	Analog	0.30	3
2	Ho		2,225,039.22	0.91	93.7	Analog	0.30	3
2	Bi		1,540,904.24	0.64	94.5	Analog	0.30	3
3	Sc		86,511.76	0.68	91.0	Pulse	0.30	3
3	Ge		58,007.01	1.47	91.3	Pulse	0.30	3
3	Ge		86,808.38	1.07	90.1	Pulse	0.30	3
3	Rh		950,559.44	0.49	91.9	Pulse	0.30	3
3	Tb		1,660,435.18	1.12	94.5	Analog	0.30	3

Quantitation Report

File Name	025SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:44
Sample Name	MP34484-MB1 4
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.057	ug/l	-43.52	264.01	9.525E-05	Pulse	0.25	3
B			1	4.322	ug/l	9.80	9,329.47	3.364E-03	Pulse	0.15	3
Ca			1	109.888	ug/l	4.15	30,662.63	1.242E-02	Pulse	0.10	3
Sr			1	0.628	ug/l	5.99	5,757.93	1.780E-03	Pulse	0.10	3
Mo			1	0.537	ug/l	11.07	940.06	2.905E-04	Pulse	0.10	3
Ag			1	0.010	ug/l	41.89	60.00	1.807E-05	Pulse	0.10	3
Sn			1	17.657	ug/l	2.18	47,703.47	1.439E-02	Pulse	0.10	3
Sb			1	0.174	ug/l	144.81	871.74	1.935E-04	Pulse	0.10	3
Ba			1	0.237	ug/l	23.00	616.70	1.366E-04	Pulse	0.10	3
Tl			1	0.008	ug/l	25.75	223.34	7.802E-05	Pulse	0.10	3
Pb			1	0.116	ug/l	88.04	2,450.31	8.561E-04	Pulse	0.10	3
Pb			1	0.323	ug/l	10.89	2,376.95	8.305E-04	Pulse	0.10	3
Pb			1	0.147	ug/l	11.11	9,774.94	3.415E-03	Pulse	0.10	3
Na			2	113.187	ug/l	3.11	22,275.93	2.359E-01	Pulse	0.30	3
Mg			2	34.925	ug/l	2.47	3,468.18	3.672E-02	Pulse	0.30	3
Al			2	11.731	ug/l	25.82	618.91	6.549E-03	Pulse	0.30	3
K			2	34.405	ug/l	2.20	13,614.58	1.442E-01	Pulse	0.30	3
Ca			2	127.147	ug/l	6.43	457.79	4.848E-03	Pulse	0.30	3
Ti			2	2.552	ug/l	57.17	72.22	7.634E-04	Pulse	0.30	3
V			2	0.002	ug/l	3230.63	346.68	3.670E-03	Pulse	0.30	3
Cr			2	0.765	ug/l	4.95	937.49	9.928E-03	Pulse	0.30	3
Mn			2	0.446	ug/l	19.59	372.23	3.941E-03	Pulse	0.30	3
Fe			2	64.552	ug/l	15.88	71,864.52	7.605E-01	Pulse	0.30	3
Co			2	0.018	ug/l	37.84	67.58	7.161E-04	Pulse	0.30	3
Ni			2	0.459	ug/l	22.47	1,043.38	1.105E-02	Pulse	0.30	3
Cu			2	1.601	ug/l	7.35	2,863.62	3.033E-02	Pulse	0.30	3
Zn			2	15.340	ug/l	7.93	8,973.67	9.502E-02	Pulse	0.30	3
As			2	-0.049	ug/l	-85.30	13.67	1.445E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.039	ug/l	89.82	16.60	2.597E-05	Pulse	0.30	3
Sn			2	20.189	ug/l	1.93	12,019.13	1.880E-02	Pulse	0.30	3
Se			3	-0.023	ug/l	-689.32	3.33	3.736E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,772,769.69	0.61	93.0	Analog	0.10	3
1	Sc		2,468,340.49	1.38	92.7	Analog	0.10	3
1	Ge		498,582.68	0.67	92.6	Pulse	0.10	3
1	Ge		696,201.58	0.39	94.2	Pulse	0.10	3
1	Rh		3,234,635.99	1.38	92.5	Analog	0.10	3
1	In		3,315,828.49	1.28	93.7	Analog	0.10	3
1	Tb		4,519,020.66	1.09	94.9	Analog	0.10	3
1	Ho		4,453,722.23	0.95	95.3	Analog	0.10	3
1	Bi		2,862,445.27	0.56	96.6	Analog	0.10	3
2	Sc		94,445.58	0.76	87.8	Pulse	0.30	3
2	Ge		63,608.92	0.82	92.4	Pulse	0.30	3
2	Ge		95,449.25	0.51	91.8	Pulse	0.30	3
2	Rh		1,620,428.55	0.52	92.5	Analog	0.30	3
2	In		639,460.00	0.52	92.5	Pulse	0.30	3
2	Tb		2,243,382.62	1.07	95.4	Analog	0.30	3
2	Ho		2,265,849.15	0.61	95.4	Analog	0.30	3
2	Bi		1,600,503.62	0.21	98.1	Analog	0.30	3
3	Sc		85,988.94	0.65	90.4	Pulse	0.30	3
3	Ge		58,580.12	0.22	92.2	Pulse	0.30	3
3	Ge		89,264.77	0.46	92.6	Pulse	0.30	3
3	Rh		967,321.04	0.15	93.5	Pulse	0.30	3
3	Tb		1,677,532.23	0.54	95.5	Analog	0.30	3

Quantitation Report

File Name	026SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:48
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.003	ug/l	-82.70	333.34	1.202E-04	Pulse	0.25	3
B			1	-0.330	ug/l	-8.19	2,918.11	1.052E-03	Pulse	0.15	3
Ca			1	4.228	ug/l	16.97	14,760.50	6.284E-03	Pulse	0.10	3
Sr			1	0.033	ug/l	4.13	1,960.19	5.953E-04	Pulse	0.10	3
Mo			1	0.043	ug/l	28.99	423.36	1.285E-04	Pulse	0.10	3
Ag			1	0.006	ug/l	33.72	133.34	3.947E-05	Pulse	0.10	3
Sn			1	-0.014	ug/l	-9.59	1,396.79	4.134E-04	Pulse	0.10	3
Sb			1	0.017	ug/l	22.45	596.71	1.312E-04	Pulse	0.10	3
Ba			1	-0.033	ug/l	-10.29	120.00	2.643E-05	Pulse	0.10	3
Tl			1	0.020	ug/l	6.63	920.06	3.249E-04	Pulse	0.10	3
Pb			1	0.008	ug/l	146.85	2,220.28	7.838E-04	Pulse	0.10	3
Pb			1	0.031	ug/l	80.79	1,966.88	6.945E-04	Pulse	0.10	3
Pb			1	0.018	ug/l	23.53	9,091.50	3.210E-03	Pulse	0.10	3
Na			2	4.695	ug/l	9.21	7,275.12	7.825E-02	Pulse	0.30	3
Mg			2	2.400	ug/l	4.34	1,607.87	1.730E-02	Pulse	0.30	3
Al			2	1.375	ug/l	21.92	475.57	5.116E-03	Pulse	0.30	3
K			2	4.466	ug/l	17.86	12,723.84	1.369E-01	Pulse	0.30	3
Ca			2	6.513	ug/l	11.38	170.00	1.828E-03	Pulse	0.30	3
Ti			2	0.089	ug/l	71.76	26.67	2.870E-04	Pulse	0.30	3
V			2	-0.032	ug/l	-7.34	227.78	2.450E-03	Pulse	0.30	3
Cr			2	-0.001	ug/l	-209.28	230.62	2.481E-03	Pulse	0.30	3
Mn			2	0.036	ug/l	36.46	240.00	2.581E-03	Pulse	0.30	3
Fe			2	0.699	ug/l	109.35	25,066.03	2.697E-01	Pulse	0.30	3
Co			2	0.023	ug/l	24.52	213.27	2.295E-03	Pulse	0.30	3
Ni			2	-0.005	ug/l	-272.23	837.81	9.012E-03	Pulse	0.30	3
Cu			2	-0.066	ug/l	-19.69	747.80	8.045E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	0.730	ug/l	21.57	6,869.29	7.389E-02	Pulse	0.30	3
As			2	0.001	ug/l	1644.95	18.33	1.971E-04	Pulse	1.00	3
Cd			2	0.026	ug/l	30.58	44.40	6.690E-05	Pulse	0.30	3
Sn			2	0.170	ug/l	12.88	565.57	8.514E-04	Pulse	0.30	3
Se			3	0.040	ug/l	39.10	6.93	7.598E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,774,087.47	0.68	93.1	Analog	0.10	3
1	Sc		2,349,605.80	3.83	88.2	Analog	0.10	3
1	Ge		511,960.76	0.65	95.1	Pulse	0.10	3
1	Ge		701,423.32	0.88	94.9	Pulse	0.10	3
1	Rh		3,292,841.93	0.36	94.1	Analog	0.10	3
1	In		3,379,164.44	0.22	95.5	Analog	0.10	3
1	Tb		4,545,869.41	1.05	95.4	Analog	0.10	3
1	Ho		4,513,876.70	0.12	96.6	Analog	0.10	3
1	Bi		2,832,117.46	0.49	95.6	Analog	0.10	3
2	Sc		92,968.41	0.34	86.4	Pulse	0.30	3
2	Ge		65,993.67	1.76	95.8	Pulse	0.30	3
2	Ge		99,321.85	0.37	95.5	Pulse	0.30	3
2	Rh		1,664,160.52	0.48	95.0	Analog	0.30	3
2	In		664,125.85	0.43	96.0	Pulse	0.30	3
2	Tb		2,286,149.01	1.29	97.2	Analog	0.30	3
2	Ho		2,295,940.60	0.69	96.6	Analog	0.30	3
2	Bi		1,573,170.18	0.20	96.5	Analog	0.30	3
3	Sc		79,347.88	1.59	83.5	Pulse	0.30	3
3	Ge		60,245.01	1.21	94.8	Pulse	0.30	3
3	Ge		91,272.43	0.60	94.7	Pulse	0.30	3
3	Rh		990,972.88	0.55	95.8	Pulse	0.30	3
3	Tb		1,720,598.99	0.34	98.0	Analog	0.30	3

Quantitation Report

File Name	027SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:51
Sample Name	JD49369-1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	7.029	ug/l	2.57	11,322.57	4.351E-03	Pulse	0.25	3
B			1	37.858	ug/l	3.70	42,542.87	1.635E-02	Pulse	0.15	3
Ca			1	364652.453	ug/l	0.19	67,931,717.32	2.523E+01	Analog	0.10	3
Sr			1	923.463	ug/l	0.11	7,083,919.06	2.366E+00	Analog	0.10	3
Mo			1	6.526	ug/l	1.82	9,903.40	3.308E-03	Pulse	0.10	3
Ag			1	0.958	ug/l	4.31	3,600.56	1.147E-03	Pulse	0.10	3
Sn			1	45.857	ug/l	0.63	114,988.62	3.661E-02	Pulse	0.10	3
Sb			1	1.680	ug/l	6.90	5,641.20	1.252E-03	Pulse	0.10	3
Ba			1	489.682	ug/l	0.56	601,857.33	1.335E-01	Pulse	0.10	3
Tl			1	1.920	ug/l	2.98	13,783.62	5.129E-03	Pulse	0.10	3
Pb			1	400.809	ug/l	1.95	998,817.49	3.716E-01	Pulse	0.10	3
Pb			1	375.850	ug/l	1.63	820,140.07	3.051E-01	Pulse	0.10	3
Pb			1	395.209	ug/l	1.69	3,912,832.84	1.456E+00	Analog	0.10	3
Na			2	2192.718	ug/l	1.38	417,157.27	3.890E+00	Pulse	0.30	3
Mg			2	67541.663	ug/l	1.55	6,138,885.73	5.724E+01	Analog	0.30	3
Al			2	115368.920	ug/l	1.11	3,649,883.47	3.403E+01	Analog	0.30	3
K			2	21896.517	ug/l	2.54	1,430,011.57	1.334E+01	Analog	0.30	3
Ca			2	395534.370	ug/l	0.51	1,354,484.08	1.263E+01	Analog	0.30	3
Ti			2	5675.855	ug/l	1.69	137,761.20	1.285E+00	Pulse	0.30	3
V			2	212.787	ug/l	0.76	173,940.36	1.622E+00	Pulse	0.30	3
Cr			2	207.765	ug/l	1.54	215,213.65	2.007E+00	Pulse	0.30	3
Mn			2	2479.750	ug/l	1.45	1,366,383.46	1.274E+01	Analog	0.30	3
Fe			2	116322.106	ug/l	1.27	100,314,720.46	9.354E+02	Analog	0.30	3
Co			2	44.012	ug/l	1.06	75,520.05	7.042E-01	Pulse	0.30	3
Ni			2	99.466	ug/l	1.85	45,992.88	4.289E-01	Pulse	0.30	3
Cu			2	156.844	ug/l	1.34	195,572.13	1.824E+00	Pulse	0.30	3
Zn			2	693.222	ug/l	1.31	141,580.68	1.320E+00	Pulse	0.30	3
As			2	29.256	ug/l	0.34	3,147.31	2.935E-02	Pulse	1.00	3
Cd			2	1.423	ug/l	10.21	390.51	6.362E-04	Pulse	0.30	3
Sn			2	49.699	ug/l	1.93	28,344.41	4.618E-02	Pulse	0.30	3
Se			3	5.062	ug/l	6.21	81.13	9.168E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,602,422.85	0.51	87.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,692,061.21	1.60	101.1	Analog	0.10	3
1	Ge		487,422.26	1.96	90.5	Pulse	0.10	3
1	Ge		661,412.91	0.69	89.5	Pulse	0.10	3
1	Rh		2,993,618.81	0.51	85.6	Analog	0.10	3
1	In		3,140,523.09	0.71	88.7	Analog	0.10	3
1	Tb		4,506,707.22	0.89	94.6	Analog	0.10	3
1	Ho		4,490,758.37	0.88	96.1	Analog	0.10	3
1	Bi		2,687,851.11	0.52	90.7	Analog	0.10	3
2	Sc		107,251.73	1.05	99.7	Pulse	0.30	3
2	Ge		63,352.16	0.49	92.0	Pulse	0.30	3
2	Ge		93,755.00	0.49	90.1	Pulse	0.30	3
2	Rh		1,502,439.45	0.61	85.8	Analog	0.30	3
2	In		613,728.42	0.19	88.8	Pulse	0.30	3
2	Tb		2,231,758.25	0.68	94.9	Analog	0.30	3
2	Ho		2,252,671.99	0.33	94.8	Analog	0.30	3
2	Bi		1,488,227.58	0.79	91.3	Analog	0.30	3
3	Sc		101,393.53	1.41	106.6	Pulse	0.30	3
3	Ge		59,717.44	0.34	94.0	Pulse	0.30	3
3	Ge		88,471.36	0.62	91.8	Pulse	0.30	3
3	Rh		927,900.90	0.56	89.7	Pulse	0.30	3
3	Tb		1,715,673.61	0.25	97.7	Analog	0.30	3

Quantitation Report

File Name	028_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:54
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	51.342	ug/l	1.00	424,294.46	1.543E-01	Pulse	0.25	3
B			1	98.956	ug/l	0.91	531,430.95	1.933E-01	Pulse	0.15	3
Ca			1	5212.191	ug/l	0.58	4,536,217.74	1.808E+00	Analog	0.10	3
Sr			1	52.805	ug/l	0.75	2,129,097.78	6.767E-01	Analog	0.10	3
Mo			1	52.141	ug/l	1.13	413,364.78	1.314E-01	Pulse	0.10	3
Ag			1	53.457	ug/l	1.03	1,032,084.28	3.183E-01	Pulse	0.10	3
Sn			1	50.203	ug/l	1.93	642,991.03	1.983E-01	Pulse	0.10	3
Sb			1	52.181	ug/l	0.58	819,994.91	1.834E-01	Pulse	0.10	3
Ba			1	51.153	ug/l	0.70	311,946.80	6.978E-02	Pulse	0.10	3
Tl			1	53.223	ug/l	0.87	1,938,591.53	7.030E-01	Analog	0.10	3
Pb			1	51.492	ug/l	0.62	659,004.30	2.390E-01	Pulse	0.10	3
Pb			1	50.846	ug/l	0.24	569,671.44	2.066E-01	Pulse	0.10	3
Pb			1	52.140	ug/l	0.47	2,650,845.87	9.613E-01	Analog	0.10	3
Na			2	5280.870	ug/l	1.17	4,761,553.01	4.643E+01	Analog	0.30	3
Mg			2	5303.414	ug/l	0.48	2,305,177.20	2.248E+01	Analog	0.30	3
Al			2	5136.554	ug/l	0.20	777,211.74	7.579E+00	Pulse	0.30	3
K			2	5307.550	ug/l	1.43	1,654,701.53	1.614E+01	Analog	0.30	3
Ca			2	5403.683	ug/l	0.71	88,548.81	8.634E-01	Pulse	0.30	3
Ti			2	53.716	ug/l	1.93	6,251.25	6.096E-02	Pulse	0.30	3
V			2	52.376	ug/l	0.22	204,615.45	1.995E+00	Pulse	0.30	3
Cr			2	51.493	ug/l	0.55	254,971.65	2.486E+00	Pulse	0.30	3
Mn			2	51.715	ug/l	1.15	136,395.06	1.330E+00	Pulse	0.30	3
Fe			2	5337.697	ug/l	1.03	22,027,119.68	2.148E+02	Analog	0.30	3
Co			2	51.024	ug/l	0.51	418,381.52	4.080E+00	Pulse	0.30	3
Ni			2	51.250	ug/l	0.41	111,832.26	1.090E+00	Pulse	0.30	3
Cu			2	50.526	ug/l	0.77	300,472.25	2.930E+00	Pulse	0.30	3
Zn			2	49.779	ug/l	1.57	53,029.92	5.171E-01	Pulse	0.30	3
As			2	52.592	ug/l	0.84	26,890.43	2.622E-01	Pulse	1.00	3
Cd			2	51.394	ug/l	0.31	73,789.72	1.134E-01	Pulse	0.30	3
Sn			2	52.914	ug/l	0.69	159,859.87	2.456E-01	Pulse	0.30	3
Se			3	210.395	ug/l	1.60	16,804.00	1.820E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,749,843.30	0.52	92.3	Analog	0.10	3
1	Sc		2,509,272.88	2.22	94.2	Analog	0.10	3
1	Ge		508,665.72	1.64	94.5	Pulse	0.10	3

Quantitation Report

1	Ge		703,940.95	1.61	95.2	Pulse	0.10	3
1	Rh		3,146,399.75	0.10	89.9	Analog	0.10	3
1	In		3,242,208.12	0.33	91.6	Analog	0.10	3
1	Tb		4,469,999.83	0.58	93.8	Analog	0.10	3
1	Ho		4,479,270.66	1.30	95.9	Analog	0.10	3
1	Bi		2,757,519.02	0.43	93.0	Analog	0.10	3
2	Sc		102,552.65	0.76	95.3	Pulse	0.30	3
2	Ge		65,758.33	1.03	95.5	Pulse	0.30	3
2	Ge		99,538.11	1.03	95.7	Pulse	0.30	3
2	Rh		1,607,668.23	0.79	91.8	Analog	0.30	3
2	In		650,930.73	0.60	94.1	Pulse	0.30	3
2	Tb		2,247,798.25	0.43	95.6	Analog	0.30	3
2	Ho		2,283,398.45	1.17	96.1	Analog	0.30	3
2	Bi		1,541,330.43	0.90	94.5	Analog	0.30	3
3	Sc		92,980.70	0.94	97.8	Pulse	0.30	3
3	Ge		61,497.48	0.20	96.8	Pulse	0.30	3
3	Ge		92,342.04	1.32	95.8	Pulse	0.30	3
3	Rh		979,392.46	0.12	94.7	Pulse	0.30	3
3	Tb		1,693,341.50	1.60	96.4	Analog	0.30	3

Quantitation Report

File Name	029BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 13:58
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.008	ug/l	48.01	422.68	1.531E-04	Pulse	0.25	3
B			1	1.781	ug/l	11.61	14,199.63	5.139E-03	Pulse	0.15	3
Ca			1	-2.320	ug/l	-12.40	9,873.34	4.019E-03	Pulse	0.10	3
Sr			1	0.022	ug/l	3.18	1,436.79	4.470E-04	Pulse	0.10	3
Mo			1	0.059	ug/l	20.52	540.03	1.680E-04	Pulse	0.10	3
Ag			1	0.005	ug/l	26.39	120.00	3.627E-05	Pulse	0.10	3
Sn			1	0.172	ug/l	16.54	3,790.61	1.146E-03	Pulse	0.10	3
Sb			1	0.023	ug/l	39.90	696.71	1.539E-04	Pulse	0.10	3
Ba			1	-0.041	ug/l	-18.83	73.33	1.622E-05	Pulse	0.10	3
Tl			1	0.042	ug/l	18.73	1,710.17	6.081E-04	Pulse	0.10	3
Pb			1	0.035	ug/l	41.09	2,567.00	9.126E-04	Pulse	0.10	3
Pb			1	0.033	ug/l	20.88	1,973.52	7.017E-04	Pulse	0.10	3
Pb			1	0.029	ug/l	39.12	9,591.61	3.410E-03	Pulse	0.10	3
Na			2	2.543	ug/l	10.80	5,737.71	5.934E-02	Pulse	0.30	3
Mg			2	1.326	ug/l	1.38	1,232.29	1.274E-02	Pulse	0.30	3
Al			2	1.928	ug/l	25.45	573.35	5.933E-03	Pulse	0.30	3
K			2	1.799	ug/l	51.77	12,455.88	1.288E-01	Pulse	0.30	3
Ca			2	0.748	ug/l	85.89	87.78	9.080E-04	Pulse	0.30	3
Ti			2	0.525	ug/l	45.65	75.56	7.800E-04	Pulse	0.30	3
V			2	-0.007	ug/l	-168.35	326.68	3.378E-03	Pulse	0.30	3
Cr			2	-0.008	ug/l	-106.16	208.30	2.156E-03	Pulse	0.30	3
Mn			2	0.011	ug/l	113.61	186.67	1.929E-03	Pulse	0.30	3
Fe			2	15.957	ug/l	18.20	85,387.27	8.830E-01	Pulse	0.30	3
Co			2	0.004	ug/l	57.44	76.44	7.897E-04	Pulse	0.30	3
Ni			2	-0.051	ug/l	-35.04	776.70	8.031E-03	Pulse	0.30	3
Cu			2	-0.024	ug/l	-126.67	1,011.16	1.045E-02	Pulse	0.30	3
Zn			2	-0.778	ug/l	-21.76	5,828.87	6.027E-02	Pulse	0.30	3
As			2	0.044	ug/l	41.83	39.67	4.106E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.020	ug/l	6.34	34.41	5.310E-05	Pulse	0.30	3
Sn			2	0.441	ug/l	11.53	1,365.64	2.108E-03	Pulse	0.30	3
Se			3	0.284	ug/l	9.84	25.67	2.873E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,761,594.79	1.07	92.7	Analog	0.10	3
1	Sc		2,456,100.17	1.29	92.2	Analog	0.10	3
1	Ge		509,241.15	0.40	94.6	Pulse	0.10	3
1	Ge		702,969.63	0.35	95.1	Pulse	0.10	3
1	Rh		3,214,209.22	0.53	91.9	Analog	0.10	3
1	In		3,308,083.07	0.26	93.5	Analog	0.10	3
1	Tb		4,527,011.81	0.47	95.0	Analog	0.10	3
1	Ho		4,441,497.54	1.33	95.1	Analog	0.10	3
1	Bi		2,813,299.86	1.13	94.9	Analog	0.10	3
2	Sc		96,701.59	0.82	89.9	Pulse	0.30	3
2	Ge		63,288.74	1.19	91.9	Pulse	0.30	3
2	Ge		95,305.17	0.51	91.6	Pulse	0.30	3
2	Rh		1,626,585.18	0.54	92.9	Analog	0.30	3
2	In		647,915.45	0.45	93.7	Pulse	0.30	3
2	Tb		2,231,260.88	0.40	94.9	Analog	0.30	3
2	Ho		2,275,749.35	0.77	95.8	Analog	0.30	3
2	Bi		1,574,933.27	1.07	96.6	Analog	0.30	3
3	Sc		87,141.54	0.90	91.6	Pulse	0.30	3
3	Ge		59,199.00	0.82	93.2	Pulse	0.30	3
3	Ge		89,347.63	0.49	92.7	Pulse	0.30	3
3	Rh		976,527.43	0.66	94.4	Pulse	0.30	3
3	Tb		1,682,323.40	1.48	95.8	Analog	0.30	3

Quantitation Report

File Name	030SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:04
Sample Name	MP34484-B1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	195.082	ug/l	0.81	322,683.41	1.173E-01	Pulse	0.25	3
B			1	192.252	ug/l	1.01	209,450.51	7.613E-02	Pulse	0.15	3
Ca			1	10352.358	ug/l	1.49	1,784,916.17	7.211E-01	Analog	0.10	3
Sr			1	200.170	ug/l	0.81	1,644,386.12	5.131E-01	Analog	0.10	3
Mo			1	192.707	ug/l	0.55	311,249.25	9.711E-02	Pulse	0.10	3
Ag			1	90.502	ug/l	1.50	354,700.15	1.078E-01	Pulse	0.10	3
Sn			1	205.826	ug/l	0.33	535,399.72	1.627E-01	Pulse	0.10	3
Sb			1	193.122	ug/l	1.20	616,473.13	1.358E-01	Pulse	0.10	3
Ba			1	191.080	ug/l	1.35	236,756.85	5.215E-02	Pulse	0.10	3
Tl			1	203.902	ug/l	1.24	1,505,942.42	5.387E-01	Analog	0.10	3
Pb			1	194.364	ug/l	0.56	504,916.62	1.806E-01	Pulse	0.10	3
Pb			1	191.498	ug/l	1.46	435,447.80	1.558E-01	Pulse	0.10	3
Pb			1	195.360	ug/l	0.85	2,016,056.33	7.211E-01	Pulse	0.10	3
Na			2	10493.860	ug/l	2.10	1,812,239.65	1.848E+01	Analog	0.30	3
Mg			2	10052.129	ug/l	1.57	836,288.96	8.526E+00	Pulse	0.30	3
Al			2	9902.750	ug/l	1.52	286,828.12	2.924E+00	Pulse	0.30	3
K			2	9803.348	ug/l	1.34	592,352.96	6.039E+00	Pulse	0.30	3
Ca			2	10952.124	ug/l	0.25	34,382.23	3.505E-01	Pulse	0.30	3
Ti			2	209.085	ug/l	5.85	4,657.38	4.750E-02	Pulse	0.30	3
V			2	205.118	ug/l	1.19	153,377.05	1.564E+00	Pulse	0.30	3
Cr			2	206.188	ug/l	1.48	195,365.33	1.992E+00	Pulse	0.30	3
Mn			2	205.092	ug/l	1.66	103,514.28	1.055E+00	Pulse	0.30	3
Fe			2	10365.293	ug/l	1.62	8,197,593.28	8.357E+01	Analog	0.30	3
Co			2	204.386	ug/l	1.52	320,625.89	3.269E+00	Pulse	0.30	3
Ni			2	205.166	ug/l	1.39	85,821.78	8.749E-01	Pulse	0.30	3
Cu			2	203.207	ug/l	0.92	231,429.74	2.359E+00	Pulse	0.30	3
Zn			2	220.729	ug/l	3.02	45,728.12	4.662E-01	Pulse	0.30	3
As			2	207.683	ug/l	1.22	20,319.94	2.071E-01	Pulse	1.00	3
Cd			2	199.468	ug/l	1.43	56,759.49	8.800E-02	Pulse	0.30	3
Sn			2	219.130	ug/l	0.18	131,216.69	2.034E-01	Pulse	0.30	3
Se			3	513.152	ug/l	0.37	8,041.44	8.880E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,751,254.75	1.30	92.3	Analog	0.10	3
1	Sc		2,475,525.22	0.98	93.0	Analog	0.10	3
1	Ge		506,530.45	0.16	94.1	Pulse	0.10	3

Quantitation Report

1	Ge		700,357.83	0.59	94.7	Pulse	0.10	3
1	Rh		3,205,001.83	0.29	91.6	Analog	0.10	3
1	In		3,290,596.31	0.15	93.0	Analog	0.10	3
1	Tb		4,539,451.81	0.35	95.3	Analog	0.10	3
1	Ho		4,551,116.29	0.62	97.4	Analog	0.10	3
1	Bi		2,795,842.98	0.99	94.3	Analog	0.10	3
2	Sc		98,106.26	1.52	91.2	Pulse	0.30	3
2	Ge		64,145.35	0.55	93.1	Pulse	0.30	3
2	Ge		96,956.05	0.94	93.2	Pulse	0.30	3
2	Rh		1,597,986.64	0.61	91.3	Analog	0.30	3
2	In		645,046.29	0.43	93.3	Pulse	0.30	3
2	Tb		2,221,499.91	0.32	94.5	Analog	0.30	3
2	Ho		2,259,466.09	0.38	95.1	Analog	0.30	3
2	Bi		1,543,329.76	1.11	94.6	Analog	0.30	3
3	Sc		87,737.21	0.64	92.3	Pulse	0.30	3
3	Ge		59,295.06	1.40	93.3	Pulse	0.30	3
3	Ge		90,559.62	1.18	94.0	Pulse	0.30	3
3	Rh		964,515.97	0.50	93.2	Pulse	0.30	3
3	Tb		1,679,336.53	0.35	95.6	Analog	0.30	3

Quantitation Report

File Name	031SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:07
Sample Name	MP34519-MB1 4
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.078	ug/l	20.13	484.02	1.767E-04	Pulse	0.25	3
B			1	7.261	ug/l	4.65	12,331.44	4.502E-03	Pulse	0.15	3
Ca			1	214.313	ug/l	1.29	48,050.32	1.965E-02	Pulse	0.10	3
Sr			1	0.716	ug/l	3.78	6,424.88	2.004E-03	Pulse	0.10	3
Mo			1	0.488	ug/l	15.62	853.40	2.657E-04	Pulse	0.10	3
Ag			1	0.042	ug/l	38.94	183.34	5.600E-05	Pulse	0.10	3
Sn			1	17.525	ug/l	2.22	46,773.83	1.428E-02	Pulse	0.10	3
Sb			1	0.161	ug/l	37.62	833.39	1.846E-04	Pulse	0.10	3
Ba			1	0.310	ug/l	11.27	706.71	1.565E-04	Pulse	0.10	3
Tl			1	0.178	ug/l	4.61	1,496.80	5.283E-04	Pulse	0.10	3
Pb			1	0.425	ug/l	18.29	3,237.15	1.142E-03	Pulse	0.10	3
Pb			1	0.454	ug/l	19.83	2,653.67	9.367E-04	Pulse	0.10	3
Pb			1	0.385	ug/l	13.89	12,152.39	4.289E-03	Pulse	0.10	3
Na			2	102.795	ug/l	2.04	20,363.49	2.176E-01	Pulse	0.30	3
Mg			2	36.047	ug/l	2.54	3,524.86	3.767E-02	Pulse	0.30	3
Al			2	17.909	ug/l	6.59	783.36	8.371E-03	Pulse	0.30	3
K			2	48.544	ug/l	4.87	14,287.32	1.527E-01	Pulse	0.30	3
Ca			2	242.662	ug/l	11.99	798.92	8.536E-03	Pulse	0.30	3
Ti			2	1.434	ug/l	16.07	47.78	5.104E-04	Pulse	0.30	3
V			2	0.318	ug/l	43.31	567.80	6.072E-03	Pulse	0.30	3
Cr			2	0.809	ug/l	2.64	968.86	1.035E-02	Pulse	0.30	3
Mn			2	1.451	ug/l	12.67	852.26	9.107E-03	Pulse	0.30	3
Fe			2	49.025	ug/l	16.99	59,462.70	6.357E-01	Pulse	0.30	3
Co			2	0.107	ug/l	24.49	200.96	2.146E-03	Pulse	0.30	3
Ni			2	0.928	ug/l	4.82	1,218.95	1.303E-02	Pulse	0.30	3
Cu			2	2.302	ug/l	12.37	3,597.10	3.843E-02	Pulse	0.30	3
Zn			2	46.133	ug/l	2.27	14,098.40	1.507E-01	Pulse	0.30	3
As			2	0.282	ug/l	18.89	44.33	4.740E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.141	ug/l	4.35	44.39	7.070E-05	Pulse	0.30	3
Sn			2	19.705	ug/l	2.22	11,518.77	1.835E-02	Pulse	0.30	3
Se			3	0.734	ug/l	23.44	14.93	1.683E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,739,952.36	1.51	91.9	Analog	0.10	3
1	Sc		2,445,407.46	0.45	91.8	Analog	0.10	3
1	Ge		502,353.42	0.50	93.3	Pulse	0.10	3
1	Ge		691,300.64	0.47	93.5	Pulse	0.10	3
1	Rh		3,207,575.16	2.00	91.7	Analog	0.10	3
1	In		3,275,192.16	1.37	92.5	Analog	0.10	3
1	Tb		4,517,137.02	0.61	94.8	Analog	0.10	3
1	Ho		4,468,906.39	0.32	95.7	Analog	0.10	3
1	Bi		2,833,650.38	0.39	95.6	Analog	0.10	3
2	Sc		93,573.78	0.69	87.0	Pulse	0.30	3
2	Ge		62,042.82	0.55	90.1	Pulse	0.30	3
2	Ge		93,181.79	1.71	89.6	Pulse	0.30	3
2	Rh		1,592,967.85	1.08	91.0	Analog	0.30	3
2	In		627,847.76	0.52	90.8	Pulse	0.30	3
2	Tb		2,195,698.94	0.68	93.4	Analog	0.30	3
2	Ho		2,230,298.73	1.06	93.9	Analog	0.30	3
2	Bi		1,573,719.17	1.14	96.5	Analog	0.30	3
3	Sc		84,943.78	0.65	89.3	Pulse	0.30	3
3	Ge		57,992.61	0.68	91.3	Pulse	0.30	3
3	Ge		88,645.65	0.64	92.0	Pulse	0.30	3
3	Rh		961,783.30	0.15	93.0	Pulse	0.30	3
3	Tb		1,670,737.47	1.67	95.1	Analog	0.30	3

Quantitation Report

File Name	032SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:11
Sample Name	MP34519-B1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	167.893	ug/l	1.75	276,952.04	1.010E-01	Pulse	0.25	3
B			1	168.060	ug/l	1.17	183,136.00	6.676E-02	Pulse	0.15	3
Ca			1	8883.645	ug/l	0.60	1,501,878.26	6.195E-01	Analog	0.10	3
Sr			1	177.060	ug/l	1.44	1,425,192.37	4.538E-01	Analog	0.10	3
Mo			1	170.087	ug/l	0.59	269,185.57	8.572E-02	Pulse	0.10	3
Ag			1	88.739	ug/l	1.25	343,479.89	1.057E-01	Pulse	0.10	3
Sn			1	181.442	ug/l	1.20	466,305.84	1.435E-01	Pulse	0.10	3
Sb			1	168.989	ug/l	0.48	532,882.53	1.188E-01	Pulse	0.10	3
Ba			1	168.799	ug/l	0.24	206,625.07	4.608E-02	Pulse	0.10	3
Tl			1	180.368	ug/l	1.71	1,315,817.48	4.765E-01	Analog	0.10	3
Pb			1	173.285	ug/l	0.73	444,846.23	1.611E-01	Pulse	0.10	3
Pb			1	169.848	ug/l	1.27	381,645.06	1.382E-01	Pulse	0.10	3
Pb			1	173.090	ug/l	0.32	1,765,169.27	6.392E-01	Pulse	0.10	3
Na			2	9097.538	ug/l	0.58	1,525,335.63	1.602E+01	Analog	0.30	3
Mg			2	8808.808	ug/l	1.26	711,283.34	7.472E+00	Pulse	0.30	3
Al			2	8603.492	ug/l	0.23	241,887.66	2.541E+00	Pulse	0.30	3
K			2	8501.888	ug/l	1.10	500,093.24	5.253E+00	Pulse	0.30	3
Ca			2	9618.041	ug/l	0.96	29,311.47	3.079E-01	Pulse	0.30	3
Ti			2	174.254	ug/l	4.71	3,772.70	3.962E-02	Pulse	0.30	3
V			2	180.324	ug/l	1.43	130,894.13	1.375E+00	Pulse	0.30	3
Cr			2	182.631	ug/l	1.54	167,960.99	1.764E+00	Pulse	0.30	3
Mn			2	181.354	ug/l	1.26	88,853.66	9.333E-01	Pulse	0.30	3
Fe			2	9110.087	ug/l	1.75	6,994,645.00	7.348E+01	Analog	0.30	3
Co			2	180.073	ug/l	0.63	274,152.78	2.880E+00	Pulse	0.30	3
Ni			2	180.126	ug/l	1.05	73,228.25	7.692E-01	Pulse	0.30	3
Cu			2	179.407	ug/l	1.26	198,408.67	2.084E+00	Pulse	0.30	3
Zn			2	217.355	ug/l	0.92	43,802.81	4.601E-01	Pulse	0.30	3
As			2	179.169	ug/l	0.86	17,014.19	1.787E-01	Pulse	1.00	3
Cd			2	173.760	ug/l	0.47	48,616.18	7.666E-02	Pulse	0.30	3
Sn			2	192.348	ug/l	1.29	113,244.60	1.786E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	438.882	ug/l	0.70	6,835.83	7.595E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,743,419.01	0.93	92.1	Analog	0.10	3
1	Sc		2,424,493.56	0.94	91.1	Analog	0.10	3
1	Ge		503,882.95	1.08	93.6	Pulse	0.10	3
1	Ge		692,652.91	0.69	93.7	Pulse	0.10	3
1	Rh		3,140,469.02	0.76	89.8	Analog	0.10	3
1	In		3,249,790.81	0.23	91.8	Analog	0.10	3
1	Tb		4,483,997.02	0.47	94.1	Analog	0.10	3
1	Ho		4,464,408.06	0.62	95.6	Analog	0.10	3
1	Bi		2,761,417.04	0.13	93.2	Analog	0.10	3
2	Sc		95,200.77	0.95	88.5	Pulse	0.30	3
2	Ge		62,967.48	0.40	91.4	Pulse	0.30	3
2	Ge		94,611.10	0.49	91.0	Pulse	0.30	3
2	Rh		1,578,260.11	0.50	90.1	Analog	0.30	3
2	In		634,218.92	0.66	91.7	Pulse	0.30	3
2	Tb		2,220,439.77	1.00	94.4	Analog	0.30	3
2	Ho		2,244,302.34	1.32	94.5	Analog	0.30	3
2	Bi		1,552,218.83	0.95	95.2	Analog	0.30	3
3	Sc		86,868.98	0.20	91.4	Pulse	0.30	3
3	Ge		58,554.45	1.43	92.1	Pulse	0.30	3
3	Ge		89,999.91	0.39	93.4	Pulse	0.30	3
3	Rh		960,581.87	0.61	92.8	Pulse	0.30	3
3	Tb		1,667,221.81	1.02	94.9	Analog	0.30	3

Quantitation Report

File Name	033SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:14
Sample Name	MP34519-S1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	175.050	ug/l	0.87	297,818.46	1.053E-01	Pulse	0.25	3
B			1	198.979	ug/l	0.96	222,758.47	7.873E-02	Pulse	0.15	3
Ca			1	33223.221	ug/l	1.46	6,431,445.32	2.303E+00	Analog	0.10	3
Sr			1	353.456	ug/l	1.56	2,927,278.91	9.058E-01	Analog	0.10	3
Mo			1	171.906	ug/l	0.68	280,003.63	8.663E-02	Pulse	0.10	3
Ag			1	90.226	ug/l	0.60	353,971.53	1.075E-01	Pulse	0.10	3
Sn			1	184.706	ug/l	1.39	481,101.28	1.461E-01	Pulse	0.10	3
Sb			1	67.033	ug/l	0.53	219,514.33	4.718E-02	Pulse	0.10	3
Ba			1	791.878	ug/l	0.60	1,004,476.10	2.159E-01	Pulse	0.10	3
Tl			1	177.597	ug/l	0.42	1,305,306.20	4.692E-01	Analog	0.10	3
Pb			1	2255.508	ug/l	0.80	5,808,116.79	2.088E+00	Analog	0.10	3
Pb			1	2149.526	ug/l	0.29	4,847,525.03	1.742E+00	Analog	0.10	3
Pb			1	2197.642	ug/l	0.47	22,484,426.64	8.082E+00	Analog	0.10	3
Na			2	8838.589	ug/l	0.95	1,752,581.74	1.557E+01	Analog	0.30	3
Mg			2	42313.597	ug/l	0.86	4,037,626.23	3.587E+01	Analog	0.30	3
Al			2	118540.970	ug/l	1.50	3,936,636.79	3.497E+01	Analog	0.30	3
K			2	25439.402	ug/l	1.10	1,741,920.11	1.547E+01	Analog	0.30	3
Ca			2	35479.196	ug/l	0.43	127,617.45	1.134E+00	Pulse	0.30	3
Ti			2	3701.936	ug/l	0.82	94,331.97	8.379E-01	Pulse	0.30	3
V			2	442.797	ug/l	1.09	379,501.98	3.371E+00	Pulse	0.30	3
Cr			2	351.099	ug/l	1.04	381,585.43	3.390E+00	Pulse	0.30	3
Mn			2	3980.499	ug/l	1.00	2,302,488.31	2.045E+01	Analog	0.30	3
Fe			2	166687.526	ug/l	0.73	150,888,545.11	1.340E+03	Analog	0.30	3
Co			2	226.606	ug/l	0.30	407,976.47	3.624E+00	Pulse	0.30	3
Ni			2	289.246	ug/l	0.57	138,442.99	1.230E+00	Pulse	0.30	3
Cu			2	427.519	ug/l	0.85	557,298.59	4.950E+00	Pulse	0.30	3
Zn			2	2676.776	ug/l	1.17	552,197.11	4.905E+00	Pulse	0.30	3
As			2	204.705	ug/l	1.51	22,985.45	2.042E-01	Pulse	1.00	3
Cd			2	174.895	ug/l	0.25	51,629.05	7.716E-02	Pulse	0.30	3
Sn			2	192.080	ug/l	0.45	119,323.34	1.783E-01	Pulse	0.30	3
Se			3	432.075	ug/l	1.22	7,093.40	7.478E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,829,346.57	0.35	94.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,792,207.56	0.94	104.9	Analog	0.10	3
1	Ge		534,803.82	1.74	99.3	Pulse	0.10	3
1	Ge		723,552.67	2.08	97.9	Pulse	0.10	3
1	Rh		3,231,904.84	0.86	92.4	Analog	0.10	3
1	In		3,293,830.63	0.71	93.0	Analog	0.10	3
1	Tb		4,652,277.74	1.39	97.6	Analog	0.10	3
1	Ho		4,650,912.43	0.82	99.6	Analog	0.10	3
1	Bi		2,782,019.65	1.06	93.9	Analog	0.10	3
2	Sc		112,581.94	0.73	104.6	Pulse	0.30	3
2	Ge		69,817.07	1.43	101.4	Pulse	0.30	3
2	Ge		103,042.72	0.88	99.1	Pulse	0.30	3
2	Rh		1,620,598.93	0.80	92.5	Analog	0.30	3
2	In		669,152.71	0.35	96.8	Pulse	0.30	3
2	Tb		2,326,554.63	0.88	99.0	Analog	0.30	3
2	Ho		2,344,318.24	0.36	98.7	Analog	0.30	3
2	Bi		1,559,032.23	1.13	95.6	Analog	0.30	3
3	Sc		102,257.65	0.63	107.5	Pulse	0.30	3
3	Ge		64,609.51	1.25	101.7	Pulse	0.30	3
3	Ge		94,869.30	0.93	98.4	Pulse	0.30	3
3	Rh		993,617.95	0.56	96.0	Pulse	0.30	3
3	Tb		1,733,296.22	1.03	98.7	Analog	0.30	3

Quantitation Report

File Name	034SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:19
Sample Name	MP34519-S2
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	191.729	ug/l	1.15	332,281.97	1.153E-01	Pulse	0.25	3
B			1	212.860	ug/l	1.17	242,447.96	8.410E-02	Pulse	0.15	3
Ca			1	39545.007	ug/l	1.67	7,911,195.92	2.741E+00	Analog	0.10	3
Sr			1	399.126	ug/l	1.28	3,393,616.09	1.023E+00	Analog	0.10	3
Mo			1	186.658	ug/l	1.22	312,100.15	9.407E-02	Pulse	0.10	3
Ag			1	96.258	ug/l	1.24	385,776.73	1.146E-01	Pulse	0.10	3
Sn			1	214.191	ug/l	0.41	569,642.28	1.693E-01	Pulse	0.10	3
Sb			1	73.984	ug/l	0.26	244,337.90	5.207E-02	Pulse	0.10	3
Ba			1	858.500	ug/l	1.31	1,098,360.95	2.341E-01	Pulse	0.10	3
Tl			1	190.879	ug/l	1.40	1,418,418.88	5.043E-01	Analog	0.10	3
Pb			1	2385.828	ug/l	1.51	6,211,645.74	2.208E+00	Analog	0.10	3
Pb			1	2277.850	ug/l	1.01	5,193,614.92	1.846E+00	Analog	0.10	3
Pb			1	2332.497	ug/l	1.31	24,128,098.39	8.578E+00	Analog	0.10	3
Na			2	9636.301	ug/l	2.22	1,943,524.37	1.697E+01	Analog	0.30	3
Mg			2	45680.606	ug/l	2.08	4,434,554.13	3.872E+01	Analog	0.30	3
Al			2	132204.740	ug/l	1.27	4,467,129.96	3.900E+01	Analog	0.30	3
K			2	26131.762	ug/l	0.33	1,820,439.16	1.589E+01	Analog	0.30	3
Ca			2	42124.513	ug/l	1.60	154,138.27	1.346E+00	Pulse	0.30	3
Ti			2	3950.821	ug/l	2.49	102,415.07	8.942E-01	Pulse	0.30	3
V			2	477.389	ug/l	1.46	416,260.79	3.634E+00	Pulse	0.30	3
Cr			2	382.751	ug/l	1.19	423,228.97	3.695E+00	Pulse	0.30	3
Mn			2	3627.181	ug/l	0.27	2,134,870.89	1.864E+01	Analog	0.30	3
Fe			2	186173.268	ug/l	1.30	171,463,246.52	1.497E+03	Analog	0.30	3
Co			2	244.330	ug/l	1.14	447,550.56	3.907E+00	Pulse	0.30	3
Ni			2	318.754	ug/l	1.15	155,122.50	1.354E+00	Pulse	0.30	3
Cu			2	460.261	ug/l	0.97	610,347.93	5.328E+00	Pulse	0.30	3
Zn			2	3096.671	ug/l	0.76	648,782.91	5.664E+00	Pulse	0.30	3
As			2	226.735	ug/l	1.44	25,900.46	2.261E-01	Pulse	1.00	3
Cd			2	198.504	ug/l	0.80	58,586.04	8.757E-02	Pulse	0.30	3
Sn			2	226.748	ug/l	0.92	140,818.86	2.105E-01	Pulse	0.30	3
Se			3	470.299	ug/l	0.62	7,725.02	8.139E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,882,840.64	1.90	96.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,887,062.67	2.03	108.4	Analog	0.10	3
1	Ge		558,077.11	0.82	103.7	Pulse	0.10	3
1	Ge		746,697.41	1.30	101.0	Pulse	0.10	3
1	Rh		3,317,813.91	0.17	94.8	Analog	0.10	3
1	In		3,364,760.75	0.77	95.1	Analog	0.10	3
1	Tb		4,692,552.85	0.44	98.5	Analog	0.10	3
1	Ho		4,672,532.54	0.74	100.0	Analog	0.10	3
1	Bi		2,812,847.56	0.88	94.9	Analog	0.10	3
2	Sc		114,555.67	1.45	106.5	Pulse	0.30	3
2	Ge		70,852.90	0.98	102.9	Pulse	0.30	3
2	Ge		103,466.43	0.60	99.5	Pulse	0.30	3
2	Rh		1,630,924.94	0.55	93.1	Analog	0.30	3
2	In		669,054.83	1.34	96.8	Pulse	0.30	3
2	Tb		2,338,529.56	1.01	99.5	Analog	0.30	3
2	Ho		2,356,941.85	0.61	99.2	Analog	0.30	3
2	Bi		1,554,182.79	0.66	95.3	Analog	0.30	3
3	Sc		101,780.22	1.00	107.0	Pulse	0.30	3
3	Ge		63,849.68	0.11	100.5	Pulse	0.30	3
3	Ge		94,922.94	1.53	98.5	Pulse	0.30	3
3	Rh		997,231.97	0.67	96.4	Pulse	0.30	3
3	Tb		1,742,955.80	0.76	99.2	Analog	0.30	3

Quantitation Report

File Name	035SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:22
Sample Name	JD49472-3
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	6.100	ug/l	3.21	10,890.24	3.793E-03	Pulse	0.25	3
B			1	39.621	ug/l	1.95	48,890.41	1.703E-02	Pulse	0.15	3
Ca			1	29679.972	ug/l	0.99	5,833,791.37	2.058E+00	Analog	0.10	3
Sr			1	197.508	ug/l	1.61	1,689,844.03	5.062E-01	Analog	0.10	3
Mo			1	6.567	ug/l	2.77	11,110.89	3.329E-03	Pulse	0.10	3
Ag			1	0.672	ug/l	6.41	2,760.36	8.068E-04	Pulse	0.10	3
Sn			1	31.916	ug/l	1.77	87,654.14	2.563E-02	Pulse	0.10	3
Sb			1	3.622	ug/l	2.47	12,325.35	2.617E-03	Pulse	0.10	3
Ba			1	596.031	ug/l	0.49	765,476.16	1.625E-01	Pulse	0.10	3
Tl			1	2.078	ug/l	3.83	15,778.93	5.547E-03	Pulse	0.10	3
Pb			1	1986.376	ug/l	1.35	5,231,134.61	1.839E+00	Analog	0.10	3
Pb			1	1885.089	ug/l	0.30	4,347,559.83	1.528E+00	Analog	0.10	3
Pb			1	1935.811	ug/l	1.19	20,254,675.11	7.120E+00	Analog	0.10	3
Na			2	864.617	ug/l	2.28	174,524.13	1.556E+00	Pulse	0.30	3
Mg			2	33602.091	ug/l	1.32	3,194,446.33	2.848E+01	Analog	0.30	3
Al			2	102768.711	ug/l	1.36	3,400,163.27	3.032E+01	Analog	0.30	3
K			2	15498.769	ug/l	0.74	1,062,727.35	9.475E+00	Pulse	0.30	3
Ca			2	30920.819	ug/l	0.71	110,815.93	9.880E-01	Pulse	0.30	3
Ti			2	3434.175	ug/l	0.73	87,183.39	7.773E-01	Pulse	0.30	3
V			2	263.612	ug/l	1.82	225,244.03	2.008E+00	Pulse	0.30	3
Cr			2	188.282	ug/l	0.55	204,008.86	1.819E+00	Pulse	0.30	3
Mn			2	3206.930	ug/l	0.52	1,848,080.97	1.648E+01	Analog	0.30	3
Fe			2	161044.673	ug/l	2.00	145,225,007.56	1.295E+03	Analog	0.30	3
Co			2	66.716	ug/l	0.92	119,696.25	1.067E+00	Pulse	0.30	3
Ni			2	132.737	ug/l	1.42	63,844.18	5.693E-01	Pulse	0.30	3
Cu			2	265.212	ug/l	1.04	344,943.08	3.075E+00	Pulse	0.30	3
Zn			2	2578.249	ug/l	1.43	530,138.45	4.727E+00	Pulse	0.30	3
As			2	47.802	ug/l	2.13	5,364.90	4.783E-02	Pulse	1.00	3
Cd			2	5.761	ug/l	4.63	1,724.99	2.550E-03	Pulse	0.30	3
Sn			2	34.462	ug/l	1.72	21,677.28	3.204E-02	Pulse	0.30	3
Se			3	7.018	ug/l	1.31	120.87	1.255E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,870,886.05	0.78	96.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,834,400.69	0.64	106.5	Analog	0.10	3
1	Ge		555,473.61	0.56	103.2	Pulse	0.10	3
1	Ge		749,553.61	1.07	101.4	Pulse	0.10	3
1	Rh		3,338,523.60	1.42	95.4	Analog	0.10	3
1	In		3,420,758.61	0.97	96.6	Analog	0.10	3
1	Tb		4,709,861.08	0.83	98.9	Analog	0.10	3
1	Ho		4,631,242.22	0.26	99.1	Analog	0.10	3
1	Bi		2,844,944.12	0.33	96.0	Analog	0.10	3
2	Sc		112,165.29	1.20	104.2	Pulse	0.30	3
2	Ge		70,500.29	1.25	102.4	Pulse	0.30	3
2	Ge		104,788.02	0.28	100.8	Pulse	0.30	3
2	Rh		1,673,676.91	0.96	95.6	Analog	0.30	3
2	In		676,519.09	0.40	97.8	Pulse	0.30	3
2	Tb		2,335,341.09	1.16	99.3	Analog	0.30	3
2	Ho		2,352,590.11	0.34	99.0	Analog	0.30	3
2	Bi		1,571,281.08	1.03	96.3	Analog	0.30	3
3	Sc		100,163.77	0.79	105.3	Pulse	0.30	3
3	Ge		64,936.35	0.86	102.2	Pulse	0.30	3
3	Ge		96,290.77	0.37	99.9	Pulse	0.30	3
3	Rh		1,012,583.61	0.19	97.9	Pulse	0.30	3
3	Tb		1,740,364.62	0.89	99.1	Analog	0.30	3

Quantitation Report

File Name	036SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:25
Sample Name	MP34519-SD1
Sample Type	Sample
Comment	
Prep Dilution	25.000
Auto Dilution	N/A
Total Dilution	25.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.054	ug/l	2.21	2,202.84	7.369E-04	Pulse	0.25	3
B			1	32.121	ug/l	8.26	12,487.09	4.178E-03	Pulse	0.15	3
Ca			1	28401.415	ug/l	1.76	1,084,822.35	3.978E-01	Pulse	0.10	3
Sr			1	172.645	ug/l	0.52	309,863.60	8.864E-02	Pulse	0.10	3
Mo			1	5.911	ug/l	10.87	2,153.56	6.157E-04	Pulse	0.10	3
Ag			1	0.672	ug/l	12.93	586.70	1.661E-04	Pulse	0.10	3
Sn			1	26.214	ug/l	2.92	16,269.04	4.602E-03	Pulse	0.10	3
Sb			1	3.156	ug/l	3.81	2,473.61	5.152E-04	Pulse	0.10	3
Ba			1	535.492	ug/l	1.75	140,474.25	2.926E-02	Pulse	0.10	3
Tl			1	1.892	ug/l	4.93	3,100.47	1.057E-03	Pulse	0.10	3
Pb			1	1774.583	ug/l	1.16	965,207.62	3.292E-01	Pulse	0.10	3
Pb			1	1664.473	ug/l	1.35	792,714.73	2.703E-01	Pulse	0.10	3
Pb			1	1722.577	ug/l	1.26	3,722,443.67	1.269E+00	Analog	0.10	3
Na			2	852.085	ug/l	0.98	36,443.73	3.364E-01	Pulse	0.30	3
Mg			2	32899.286	ug/l	1.24	604,764.77	5.583E+00	Pulse	0.30	3
Al			2	100477.993	ug/l	1.07	642,418.19	5.931E+00	Pulse	0.30	3
K			2	14785.104	ug/l	1.17	206,637.90	1.908E+00	Pulse	0.30	3
Ca			2	30554.075	ug/l	3.52	21,218.08	1.959E-01	Pulse	0.30	3
Ti			2	3370.943	ug/l	2.24	16,546.15	1.527E-01	Pulse	0.30	3
V			2	253.974	ug/l	1.52	42,238.21	3.899E-01	Pulse	0.30	3
Cr			2	183.912	ug/l	0.64	38,712.98	3.574E-01	Pulse	0.30	3
Mn			2	3137.845	ug/l	0.93	349,417.72	3.226E+00	Pulse	0.30	3
Fe			2	161975.592	ug/l	0.65	28,237,259.99	2.607E+02	Analog	0.30	3
Co			2	67.012	ug/l	1.57	23,261.51	2.147E-01	Pulse	0.30	3
Ni			2	135.044	ug/l	1.79	13,333.33	1.231E-01	Pulse	0.30	3
Cu			2	263.098	ug/l	1.65	67,121.84	6.197E-01	Pulse	0.30	3
Zn			2	2676.497	ug/l	1.53	112,082.53	1.035E+00	Pulse	0.30	3
As			2	46.951	ug/l	4.63	1,034.70	9.550E-03	Pulse	1.00	3
Cd			2	5.456	ug/l	10.47	350.98	4.899E-04	Pulse	0.30	3
Sn			2	33.174	ug/l	3.68	4,456.23	6.218E-03	Pulse	0.30	3
Se			3	6.183	ug/l	3.78	24.87	2.552E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,989,664.84	0.99	100.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,727,238.50	1.18	102.4	Analog	0.10	3
1	Ge		564,308.89	0.23	104.8	Pulse	0.10	3
1	Ge		770,538.40	0.63	104.2	Pulse	0.10	3
1	Rh		3,495,502.55	1.03	99.9	Analog	0.10	3
1	In		3,534,956.62	1.75	99.9	Analog	0.10	3
1	Tb		4,800,241.39	1.15	100.8	Analog	0.10	3
1	Ho		4,702,880.45	1.59	100.7	Analog	0.10	3
1	Bi		2,932,321.41	0.38	98.9	Analog	0.10	3
2	Sc		108,325.21	0.53	100.7	Pulse	0.30	3
2	Ge		72,312.50	0.42	105.0	Pulse	0.30	3
2	Ge		107,960.89	0.56	103.8	Pulse	0.30	3
2	Rh		1,747,301.74	0.91	99.8	Analog	0.30	3
2	In		716,591.51	0.55	103.6	Pulse	0.30	3
2	Tb		2,376,639.70	2.41	101.1	Analog	0.30	3
2	Ho		2,411,547.75	0.37	101.5	Analog	0.30	3
2	Bi		1,665,226.63	0.92	102.1	Analog	0.30	3
3	Sc		96,314.85	0.06	101.3	Pulse	0.30	3
3	Ge		65,147.18	0.16	102.5	Pulse	0.30	3
3	Ge		97,439.62	0.63	101.1	Pulse	0.30	3
3	Rh		1,048,074.68	0.14	101.3	Pulse	0.30	3
3	Tb		1,780,319.30	0.27	101.4	Analog	0.30	3

Quantitation Report

File Name	037SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:29
Sample Name	MP34519-PS1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	185.021	ug/l	1.44	327,129.41	1.112E-01	Pulse	0.25	3
B			1	202.450	ug/l	1.96	235,470.33	8.007E-02	Pulse	0.15	3
Ca			1	36401.241	ug/l	1.23	7,209,017.60	2.523E+00	Analog	0.10	3
Sr			1	367.184	ug/l	1.72	3,138,388.39	9.410E-01	Analog	0.10	3
Mo			1	178.721	ug/l	0.61	300,409.19	9.007E-02	Pulse	0.10	3
Ag			1	93.375	ug/l	1.81	376,908.29	1.112E-01	Pulse	0.10	3
Sn			1	199.859	ug/l	1.09	535,466.09	1.580E-01	Pulse	0.10	3
Sb			1	176.597	ug/l	1.35	585,667.75	1.242E-01	Pulse	0.10	3
Ba			1	744.623	ug/l	1.59	957,492.30	2.030E-01	Pulse	0.10	3
Tl			1	187.116	ug/l	0.65	1,393,335.86	4.943E-01	Analog	0.10	3
Pb			1	2096.404	ug/l	0.96	5,469,712.83	1.941E+00	Analog	0.10	3
Pb			1	1972.389	ug/l	0.43	4,506,778.58	1.599E+00	Analog	0.10	3
Pb			1	2025.077	ug/l	0.29	20,993,056.67	7.448E+00	Analog	0.10	3
Na			2	9154.868	ug/l	3.05	1,811,443.05	1.612E+01	Analog	0.30	3
Mg			2	40473.170	ug/l	1.98	3,854,758.32	3.431E+01	Analog	0.30	3
Al			2	105111.243	ug/l	2.20	3,484,078.06	3.101E+01	Analog	0.30	3
K			2	23801.187	ug/l	2.11	1,627,552.85	1.448E+01	Analog	0.30	3
Ca			2	38165.083	ug/l	1.73	137,013.28	1.219E+00	Pulse	0.30	3
Ti			2	3437.857	ug/l	1.27	87,442.12	7.781E-01	Pulse	0.30	3
V			2	422.540	ug/l	2.05	361,472.73	3.217E+00	Pulse	0.30	3
Cr			2	351.286	ug/l	2.28	381,056.00	3.391E+00	Pulse	0.30	3
Mn			2	3159.157	ug/l	2.72	1,823,795.00	1.623E+01	Analog	0.30	3
Fe			2	159879.280	ug/l	2.07	144,452,576.48	1.286E+03	Analog	0.30	3
Co			2	231.973	ug/l	1.29	416,867.10	3.710E+00	Pulse	0.30	3
Ni			2	293.781	ug/l	2.13	140,324.85	1.249E+00	Pulse	0.30	3
Cu			2	418.875	ug/l	1.63	545,032.13	4.850E+00	Pulse	0.30	3
Zn			2	2601.757	ug/l	1.85	535,922.43	4.769E+00	Pulse	0.30	3
As			2	213.226	ug/l	2.99	23,893.13	2.127E-01	Pulse	1.00	3
Cd			2	181.390	ug/l	0.79	54,194.89	8.002E-02	Pulse	0.30	3
Sn			2	211.111	ug/l	2.04	132,729.54	1.960E-01	Pulse	0.30	3
Se			3	487.363	ug/l	0.73	8,022.30	8.434E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,940,799.53	0.96	98.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,856,988.19	0.40	107.3	Analog	0.10	3
1	Ge		564,799.35	0.40	104.9	Pulse	0.10	3
1	Ge		756,541.19	0.83	102.3	Pulse	0.10	3
1	Rh		3,335,384.53	0.61	95.3	Analog	0.10	3
1	In		3,389,021.74	0.52	95.7	Analog	0.10	3
1	Tb		4,716,192.85	0.51	99.0	Analog	0.10	3
1	Ho		4,659,685.14	0.69	99.7	Analog	0.10	3
1	Bi		2,818,694.65	0.78	95.1	Analog	0.10	3
2	Sc		112,389.77	1.74	104.5	Pulse	0.30	3
2	Ge		70,540.30	0.64	102.4	Pulse	0.30	3
2	Ge		104,263.97	0.55	100.2	Pulse	0.30	3
2	Rh		1,664,554.48	1.39	95.1	Analog	0.30	3
2	In		677,262.29	0.28	97.9	Pulse	0.30	3
2	Tb		2,327,520.88	0.68	99.0	Analog	0.30	3
2	Ho		2,325,490.67	0.12	97.9	Analog	0.30	3
2	Bi		1,540,400.74	0.44	94.4	Analog	0.30	3
3	Sc		99,695.32	0.33	104.9	Pulse	0.30	3
3	Ge		63,416.99	0.59	99.8	Pulse	0.30	3
3	Ge		95,123.04	0.99	98.7	Pulse	0.30	3
3	Rh		1,000,100.06	0.60	96.7	Pulse	0.30	3
3	Tb		1,750,618.26	0.51	99.7	Analog	0.30	3

Quantitation Report

File Name	038SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:32
Sample Name	RINSECONF
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.014	ug/l	-94.63	357.34	1.216E-04	Pulse	0.25	3
B			1	2.445	ug/l	4.52	7,748.60	2.637E-03	Pulse	0.15	3
Ca			1	-14.886	ug/l	-4.46	9,850.03	3.792E-03	Pulse	0.10	3
Sr			1	0.098	ug/l	4.71	1,436.78	4.213E-04	Pulse	0.10	3
Mo			1	0.220	ug/l	18.04	446.69	1.311E-04	Pulse	0.10	3
Ag			1	0.021	ug/l	53.15	106.67	3.075E-05	Pulse	0.10	3
Sn			1	-0.003	ug/l	-2335.27	1,620.15	4.673E-04	Pulse	0.10	3
Sb			1	0.098	ug/l	21.96	660.04	1.403E-04	Pulse	0.10	3
Ba			1	-0.188	ug/l	-10.70	96.67	2.056E-05	Pulse	0.10	3
Tl			1	0.089	ug/l	5.98	850.06	2.936E-04	Pulse	0.10	3
Pb			1	0.527	ug/l	17.31	3,580.56	1.236E-03	Pulse	0.10	3
Pb			1	0.589	ug/l	13.85	3,030.42	1.046E-03	Pulse	0.10	3
Pb			1	0.553	ug/l	11.29	14,216.59	4.910E-03	Pulse	0.10	3
Na			2	6.320	ug/l	25.48	4,974.26	4.810E-02	Pulse	0.30	3
Mg			2	5.214	ug/l	17.94	1,193.39	1.154E-02	Pulse	0.30	3
Al			2	29.778	ug/l	8.01	1,227.84	1.187E-02	Pulse	0.30	3
K			2	2.648	ug/l	175.47	12,924.00	1.250E-01	Pulse	0.30	3
Ca			2	-3.511	ug/l	-140.48	70.00	6.765E-04	Pulse	0.30	3
Ti			2	2.077	ug/l	31.48	67.78	6.559E-04	Pulse	0.30	3
V			2	-0.239	ug/l	-11.42	190.01	1.838E-03	Pulse	0.30	3
Cr			2	-0.039	ug/l	-104.37	224.26	2.169E-03	Pulse	0.30	3
Mn			2	0.206	ug/l	20.53	280.00	2.709E-03	Pulse	0.30	3
Fe			2	181.849	ug/l	11.98	176,228.62	1.704E+00	Pulse	0.30	3
Co			2	0.026	ug/l	5.82	87.30	8.444E-04	Pulse	0.30	3
Ni			2	0.123	ug/l	99.84	995.60	9.629E-03	Pulse	0.30	3
Cu			2	-0.247	ug/l	-17.70	928.93	8.984E-03	Pulse	0.30	3
Zn			2	-0.320	ug/l	-248.12	6,898.20	6.672E-02	Pulse	0.30	3
As			2	0.049	ug/l	55.90	25.00	2.419E-04	Pulse	1.00	3
Cd			2	0.095	ug/l	72.92	35.53	5.069E-05	Pulse	0.30	3
Sn			2	0.943	ug/l	11.12	656.69	9.359E-04	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.529	ug/l	19.42	12.73	1.328E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,937,734.41	0.77	98.6	Analog	0.10	3
1	Sc		2,597,791.58	2.07	97.6	Analog	0.10	3
1	Ge		545,662.61	0.25	101.4	Pulse	0.10	3
1	Ge		754,891.24	1.03	102.1	Pulse	0.10	3
1	Rh		3,409,872.14	0.45	97.5	Analog	0.10	3
1	In		3,470,674.19	1.42	98.0	Analog	0.10	3
1	Tb		4,708,499.10	0.96	98.8	Analog	0.10	3
1	Ho		4,617,999.93	0.50	98.9	Analog	0.10	3
1	Bi		2,895,306.10	0.42	97.7	Analog	0.10	3
2	Sc		103,399.88	0.72	96.1	Pulse	0.30	3
2	Ge		69,835.07	0.69	101.4	Pulse	0.30	3
2	Ge		104,975.86	0.75	100.9	Pulse	0.30	3
2	Rh		1,741,375.66	0.47	99.4	Analog	0.30	3
2	In		701,713.95	0.26	101.5	Pulse	0.30	3
2	Tb		2,339,190.05	0.35	99.5	Analog	0.30	3
2	Ho		2,371,165.25	0.71	99.8	Analog	0.30	3
2	Bi		1,635,061.46	1.13	100.3	Analog	0.30	3
3	Sc		90,569.48	1.02	95.3	Pulse	0.30	3
3	Ge		63,076.88	0.17	99.3	Pulse	0.30	3
3	Ge		95,941.98	1.24	99.6	Pulse	0.30	3
3	Rh		1,039,122.42	0.30	100.4	Pulse	0.30	3
3	Tb		1,736,326.60	1.44	98.8	Analog	0.30	3

Quantitation Report

File Name	039_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:35
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	51.646	ug/l	1.01	444,530.51	1.552E-01	Pulse	0.25	3
B			1	100.891	ug/l	1.78	564,204.84	1.970E-01	Pulse	0.15	3
Ca			1	5181.601	ug/l	0.91	4,825,938.37	1.797E+00	Analog	0.10	3
Sr			1	52.151	ug/l	0.61	2,217,886.42	6.683E-01	Analog	0.10	3
Mo			1	52.226	ug/l	1.01	436,711.91	1.316E-01	Pulse	0.10	3
Ag			1	53.543	ug/l	0.97	1,087,377.98	3.188E-01	Pulse	0.10	3
Sn			1	49.760	ug/l	0.94	670,391.97	1.966E-01	Pulse	0.10	3
Sb			1	51.457	ug/l	0.99	848,323.50	1.809E-01	Pulse	0.10	3
Ba			1	50.246	ug/l	0.91	321,464.30	6.855E-02	Pulse	0.10	3
Tl			1	52.679	ug/l	1.17	1,977,376.48	6.958E-01	Analog	0.10	3
Pb			1	51.473	ug/l	0.71	678,925.59	2.389E-01	Pulse	0.10	3
Pb			1	49.984	ug/l	1.24	577,190.53	2.031E-01	Pulse	0.10	3
Pb			1	51.556	ug/l	0.34	2,701,390.15	9.506E-01	Analog	0.10	3
Na			2	5301.391	ug/l	0.75	4,895,970.64	4.661E+01	Analog	0.30	3
Mg			2	5303.715	ug/l	0.53	2,361,086.36	2.248E+01	Analog	0.30	3
Al			2	5166.260	ug/l	1.04	800,582.94	7.623E+00	Pulse	0.30	3
K			2	5359.308	ug/l	1.95	1,711,086.32	1.629E+01	Analog	0.30	3
Ca			2	5444.762	ug/l	1.39	91,372.92	8.700E-01	Pulse	0.30	3
Ti			2	52.115	ug/l	1.83	6,212.34	5.915E-02	Pulse	0.30	3
V			2	53.279	ug/l	0.54	213,167.30	2.030E+00	Pulse	0.30	3
Cr			2	52.334	ug/l	0.86	265,393.16	2.527E+00	Pulse	0.30	3
Mn			2	52.117	ug/l	1.38	140,773.98	1.340E+00	Pulse	0.30	3
Fe			2	5361.461	ug/l	1.69	22,659,830.21	2.158E+02	Analog	0.30	3
Co			2	51.717	ug/l	1.03	434,312.05	4.135E+00	Pulse	0.30	3
Ni			2	51.734	ug/l	0.49	115,610.28	1.101E+00	Pulse	0.30	3
Cu			2	51.292	ug/l	1.18	312,392.05	2.974E+00	Pulse	0.30	3
Zn			2	50.076	ug/l	2.83	54,599.48	5.198E-01	Pulse	0.30	3
As			2	52.874	ug/l	0.90	27,688.71	2.636E-01	Pulse	1.00	3
Cd			2	51.206	ug/l	1.55	76,291.79	1.129E-01	Pulse	0.30	3
Sn			2	52.407	ug/l	1.28	164,298.27	2.432E-01	Pulse	0.30	3
Se			3	208.488	ug/l	0.89	17,169.18	1.803E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,864,073.41	0.47	96.1	Analog	0.10	3
1	Sc		2,685,041.52	0.57	100.8	Analog	0.10	3
1	Ge		540,120.12	1.85	100.3	Pulse	0.10	3

Quantitation Report

1	Ge		756,153.69	0.98	102.3	Pulse	0.10	3
1	Rh		3,318,702.87	0.09	94.9	Analog	0.10	3
1	In		3,410,413.44	0.63	96.3	Analog	0.10	3
1	Tb		4,689,556.18	0.26	98.4	Analog	0.10	3
1	Ho		4,641,451.81	0.64	99.4	Analog	0.10	3
1	Bi		2,841,846.63	0.59	95.9	Analog	0.10	3
2	Sc		105,034.87	0.95	97.6	Pulse	0.30	3
2	Ge		68,832.01	1.81	100.0	Pulse	0.30	3
2	Ge		103,832.19	0.49	99.8	Pulse	0.30	3
2	Rh		1,654,544.28	0.79	94.5	Analog	0.30	3
2	In		675,478.57	0.49	97.7	Pulse	0.30	3
2	Tb		2,321,637.34	0.82	98.7	Analog	0.30	3
2	Ho		2,325,580.26	0.26	97.9	Analog	0.30	3
2	Bi		1,577,145.73	0.95	96.7	Analog	0.30	3
3	Sc		94,658.87	0.32	99.6	Pulse	0.30	3
3	Ge		63,132.45	1.02	99.3	Pulse	0.30	3
3	Ge		95,203.51	0.60	98.8	Pulse	0.30	3
3	Rh		1,001,266.70	0.68	96.8	Pulse	0.30	3
3	Tb		1,725,086.25	0.51	98.2	Analog	0.30	3

Quantitation Report

File Name	040BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:39
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.007	ug/l	71.06	446.68	1.523E-04	Pulse	0.25	3
B			1	2.005	ug/l	4.04	16,337.02	5.572E-03	Pulse	0.15	3
Ca			1	-2.222	ug/l	-20.94	10,810.59	4.053E-03	Pulse	0.10	3
Sr			1	0.016	ug/l	8.73	1,300.10	3.796E-04	Pulse	0.10	3
Mo			1	0.059	ug/l	13.61	573.37	1.674E-04	Pulse	0.10	3
Ag			1	0.007	ug/l	38.21	160.01	4.565E-05	Pulse	0.10	3
Sn			1	0.180	ug/l	9.86	4,140.73	1.181E-03	Pulse	0.10	3
Sb			1	0.033	ug/l	4.69	873.40	1.862E-04	Pulse	0.10	3
Ba			1	-0.040	ug/l	-14.05	80.00	1.708E-05	Pulse	0.10	3
Tl			1	0.038	ug/l	7.45	1,596.82	5.588E-04	Pulse	0.10	3
Pb			1	0.040	ug/l	17.03	2,667.00	9.335E-04	Pulse	0.10	3
Pb			1	0.067	ug/l	50.37	2,403.64	8.414E-04	Pulse	0.10	3
Pb			1	0.054	ug/l	22.32	11,048.77	3.867E-03	Pulse	0.10	3
Na			2	1.374	ug/l	25.32	5,119.82	4.907E-02	Pulse	0.30	3
Mg			2	0.879	ug/l	30.75	1,130.06	1.085E-02	Pulse	0.30	3
Al			2	1.762	ug/l	25.13	593.35	5.688E-03	Pulse	0.30	3
K			2	1.140	ug/l	30.88	13,225.35	1.268E-01	Pulse	0.30	3
Ca			2	-1.269	ug/l	-81.04	61.11	5.860E-04	Pulse	0.30	3
Ti			2	0.089	ug/l	144.08	30.00	2.869E-04	Pulse	0.30	3
V			2	-0.018	ug/l	-47.89	307.78	2.954E-03	Pulse	0.30	3
Cr			2	-0.004	ug/l	-213.13	246.01	2.364E-03	Pulse	0.30	3
Mn			2	0.020	ug/l	66.48	224.45	2.156E-03	Pulse	0.30	3
Fe			2	15.189	ug/l	15.94	88,917.66	8.521E-01	Pulse	0.30	3
Co			2	0.005	ug/l	36.36	89.76	8.619E-04	Pulse	0.30	3
Ni			2	-0.040	ug/l	-72.12	861.14	8.265E-03	Pulse	0.30	3
Cu			2	-0.039	ug/l	-37.86	998.93	9.586E-03	Pulse	0.30	3
Zn			2	-0.759	ug/l	-27.00	6,303.50	6.044E-02	Pulse	0.30	3
As			2	0.033	ug/l	67.11	37.33	3.570E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.025	ug/l	17.79	44.41	6.372E-05	Pulse	0.30	3
Sn			2	0.493	ug/l	11.60	1,635.66	2.346E-03	Pulse	0.30	3
Se			3	0.304	ug/l	7.85	29.07	3.043E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,931,943.17	0.72	98.4	Analog	0.10	3
1	Sc		2,667,761.10	0.98	100.2	Analog	0.10	3
1	Ge		545,188.61	0.97	101.3	Pulse	0.10	3
1	Ge		752,990.72	0.30	101.9	Pulse	0.10	3
1	Rh		3,424,739.64	0.52	97.9	Analog	0.10	3
1	In		3,505,881.95	0.44	99.0	Analog	0.10	3
1	Tb		4,690,342.95	1.56	98.4	Analog	0.10	3
1	Ho		4,625,075.03	0.19	99.0	Analog	0.10	3
1	Bi		2,857,070.48	0.49	96.4	Analog	0.10	3
2	Sc		104,273.51	1.70	96.9	Pulse	0.30	3
2	Ge		68,683.52	1.34	99.7	Pulse	0.30	3
2	Ge		104,200.94	0.61	100.2	Pulse	0.30	3
2	Rh		1,723,688.72	1.10	98.4	Analog	0.30	3
2	In		696,872.84	0.55	100.8	Pulse	0.30	3
2	Tb		2,337,636.57	1.04	99.4	Analog	0.30	3
2	Ho		2,362,181.02	1.85	99.4	Analog	0.30	3
2	Bi		1,628,004.80	1.11	99.8	Analog	0.30	3
3	Sc		93,546.90	1.24	98.4	Pulse	0.30	3
3	Ge		62,900.45	1.07	99.0	Pulse	0.30	3
3	Ge		95,520.61	0.35	99.1	Pulse	0.30	3
3	Rh		1,037,239.13	0.60	100.3	Pulse	0.30	3
3	Tb		1,745,353.23	1.16	99.4	Analog	0.30	3

Quantitation Report

File Name	041SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:42
Sample Name	JD49472-1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	6.279	ug/l	1.17	11,090.39	3.901E-03	Pulse	0.25	3
B			1	38.748	ug/l	2.08	47,451.12	1.669E-02	Pulse	0.15	3
Ca			1	90643.933	ug/l	2.40	18,014,831.81	6.276E+00	Analog	0.10	3
Sr			1	419.347	ug/l	1.60	3,525,374.53	1.075E+00	Analog	0.10	3
Mo			1	5.299	ug/l	4.40	8,829.39	2.690E-03	Pulse	0.10	3
Ag			1	1.088	ug/l	12.20	4,371.32	1.301E-03	Pulse	0.10	3
Sn			1	90.112	ug/l	0.78	240,366.07	7.150E-02	Pulse	0.10	3
Sb			1	85.251	ug/l	0.70	284,421.15	5.999E-02	Pulse	0.10	3
Ba			1	1223.847	ug/l	0.60	1,581,863.47	3.337E-01	Analog	0.10	3
Tl			1	1.089	ug/l	4.64	8,389.42	2.935E-03	Pulse	0.10	3
Pb			1	1381.116	ug/l	0.59	3,654,549.95	1.279E+00	Analog	0.10	3
Pb			1	1321.565	ug/l	0.22	3,062,385.58	1.072E+00	Analog	0.10	3
Pb			1	1351.756	ug/l	0.41	14,211,014.58	4.972E+00	Analog	0.10	3
Na			2	735.973	ug/l	0.96	148,961.98	1.330E+00	Pulse	0.30	3
Mg			2	38834.597	ug/l	0.70	3,686,249.58	3.292E+01	Analog	0.30	3
Al			2	84804.443	ug/l	0.89	2,801,692.53	2.502E+01	Analog	0.30	3
K			2	8662.643	ug/l	0.15	599,171.92	5.350E+00	Pulse	0.30	3
Ca			2	93692.571	ug/l	0.60	335,083.41	2.992E+00	Pulse	0.30	3
Ti			2	3508.060	ug/l	0.90	88,919.01	7.940E-01	Pulse	0.30	3
V			2	183.975	ug/l	0.08	157,089.57	1.403E+00	Pulse	0.30	3
Cr			2	159.772	ug/l	0.29	172,893.55	1.544E+00	Pulse	0.30	3
Mn			2	3465.703	ug/l	0.45	1,994,077.77	1.781E+01	Analog	0.30	3
Fe			2	157704.619	ug/l	0.93	142,007,421.02	1.268E+03	Analog	0.30	3
Co			2	72.988	ug/l	0.97	130,743.12	1.168E+00	Pulse	0.30	3
Ni			2	183.934	ug/l	1.42	87,941.72	7.853E-01	Pulse	0.30	3
Cu			2	371.218	ug/l	0.21	481,530.49	4.300E+00	Pulse	0.30	3
Zn			2	1807.359	ug/l	0.68	373,327.26	3.334E+00	Pulse	0.30	3
As			2	71.528	ug/l	1.51	8,003.31	7.147E-02	Pulse	1.00	3
Cd			2	5.629	ug/l	3.80	1,656.23	2.492E-03	Pulse	0.30	3
Sn			2	98.891	ug/l	7.77	61,066.47	9.183E-02	Pulse	0.30	3
Se			3	8.280	ug/l	8.05	139.00	1.474E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,842,829.91	0.96	95.4	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,870,587.66	1.47	107.8	Analog	0.10	3
1	Ge		547,394.29	0.88	101.7	Pulse	0.10	3
1	Ge		736,275.69	1.15	99.6	Pulse	0.10	3
1	Rh		3,281,073.07	1.82	93.8	Analog	0.10	3
1	In		3,361,753.59	1.09	95.0	Analog	0.10	3
1	Tb		4,741,215.03	0.81	99.5	Analog	0.10	3
1	Ho		4,721,761.08	1.36	101.1	Analog	0.10	3
1	Bi		2,857,990.90	0.83	96.4	Analog	0.10	3
2	Sc		111,987.03	0.36	104.1	Pulse	0.30	3
2	Ge		69,154.27	1.38	100.4	Pulse	0.30	3
2	Ge		101,651.87	1.70	97.7	Pulse	0.30	3
2	Rh		1,646,467.64	0.81	94.0	Analog	0.30	3
2	In		664,913.56	1.00	96.2	Pulse	0.30	3
2	Tb		2,323,733.17	1.01	98.8	Analog	0.30	3
2	Ho		2,367,941.23	0.76	99.7	Analog	0.30	3
2	Bi		1,575,740.46	0.38	96.6	Analog	0.30	3
3	Sc		101,078.47	0.64	106.3	Pulse	0.30	3
3	Ge		63,504.11	1.05	99.9	Pulse	0.30	3
3	Ge		94,342.09	2.34	97.9	Pulse	0.30	3
3	Rh		997,146.45	0.46	96.4	Pulse	0.30	3
3	Tb		1,745,454.37	0.75	99.4	Analog	0.30	3

Quantitation Report

File Name	042SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:45
Sample Name	JD49491-1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.639	ug/l	1.11	8,607.63	2.916E-03	Pulse	0.25	3
B			1	24.646	ug/l	2.50	33,157.37	1.123E-02	Pulse	0.15	3
Ca			1	4663.730	ug/l	0.24	960,416.44	3.275E-01	Pulse	0.10	3
Sr			1	63.559	ug/l	0.40	554,846.07	1.630E-01	Pulse	0.10	3
Mo			1	4.980	ug/l	4.79	8,605.97	2.529E-03	Pulse	0.10	3
Ag			1	0.348	ug/l	12.05	1,466.79	4.199E-04	Pulse	0.10	3
Sn			1	21.275	ug/l	1.87	60,252.84	1.724E-02	Pulse	0.10	3
Sb			1	1.455	ug/l	7.40	5,251.05	1.094E-03	Pulse	0.10	3
Ba			1	549.640	ug/l	1.70	719,226.01	1.499E-01	Pulse	0.10	3
Tl			1	1.525	ug/l	4.00	11,728.40	4.086E-03	Pulse	0.10	3
Pb			1	187.074	ug/l	0.20	498,991.25	1.739E-01	Pulse	0.10	3
Pb			1	175.704	ug/l	0.80	410,289.16	1.430E-01	Pulse	0.10	3
Pb			1	183.117	ug/l	0.56	1,940,460.60	6.761E-01	Pulse	0.10	3
Na			2	582.101	ug/l	2.09	122,446.46	1.060E+00	Pulse	0.30	3
Mg			2	10761.218	ug/l	1.00	1,054,472.74	9.127E+00	Pulse	0.30	3
Al			2	104848.855	ug/l	1.73	3,573,596.52	3.093E+01	Analog	0.30	3
K			2	4650.137	ug/l	0.81	338,446.25	2.929E+00	Pulse	0.30	3
Ca			2	4872.659	ug/l	0.84	18,066.57	1.564E-01	Pulse	0.30	3
Ti			2	1522.986	ug/l	2.55	39,838.87	3.448E-01	Pulse	0.30	3
V			2	255.602	ug/l	1.36	225,008.83	1.947E+00	Pulse	0.30	3
Cr			2	151.174	ug/l	0.64	168,794.71	1.461E+00	Pulse	0.30	3
Mn			2	3537.974	ug/l	1.10	2,100,232.97	1.818E+01	Analog	0.30	3
Fe			2	131174.521	ug/l	0.95	121,871,888.49	1.055E+03	Analog	0.30	3
Co			2	46.105	ug/l	1.37	85,227.85	7.376E-01	Pulse	0.30	3
Ni			2	90.576	ug/l	1.80	45,214.17	3.913E-01	Pulse	0.30	3
Cu			2	66.613	ug/l	0.40	90,274.55	7.813E-01	Pulse	0.30	3
Zn			2	461.413	ug/l	0.66	104,127.45	9.012E-01	Pulse	0.30	3
As			2	35.537	ug/l	2.54	4,113.53	3.560E-02	Pulse	1.00	3
Cd			2	0.598	ug/l	22.77	188.41	2.722E-04	Pulse	0.30	3
Sn			2	23.639	ug/l	1.54	15,233.05	2.200E-02	Pulse	0.30	3
Se			3	6.631	ug/l	6.24	115.20	1.188E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,951,802.13	0.98	99.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,932,661.52	1.24	110.1	Analog	0.10	3
1	Ge		567,083.83	1.78	105.3	Pulse	0.10	3
1	Ge		766,488.30	1.33	103.7	Pulse	0.10	3
1	Rh		3,403,424.01	0.69	97.3	Analog	0.10	3
1	In		3,495,290.49	0.95	98.7	Analog	0.10	3
1	Tb		4,798,737.01	0.46	100.7	Analog	0.10	3
1	Ho		4,724,976.70	0.21	101.1	Analog	0.10	3
1	Bi		2,870,189.43	0.64	96.8	Analog	0.10	3
2	Sc		115,543.26	0.52	107.4	Pulse	0.30	3
2	Ge		72,327.97	0.37	105.0	Pulse	0.30	3
2	Ge		106,864.95	0.71	102.7	Pulse	0.30	3
2	Rh		1,701,652.71	0.75	97.2	Analog	0.30	3
2	In		692,493.78	0.44	100.1	Pulse	0.30	3
2	Tb		2,349,868.38	0.76	99.9	Analog	0.30	3
2	Ho		2,362,009.98	0.93	99.4	Analog	0.30	3
2	Bi		1,578,703.17	0.88	96.8	Analog	0.30	3
3	Sc		102,034.08	0.90	107.3	Pulse	0.30	3
3	Ge		65,121.34	0.47	102.5	Pulse	0.30	3
3	Ge		96,943.57	0.19	100.6	Pulse	0.30	3
3	Rh		1,009,504.13	0.65	97.6	Pulse	0.30	3
3	Tb		1,738,225.56	0.52	99.0	Analog	0.30	3

Quantitation Report

File Name	043SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:49
Sample Name	JD49491-3
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.979	ug/l	2.26	7,244.32	2.519E-03	Pulse	0.25	3
B			1	23.816	ug/l	1.23	31,385.05	1.091E-02	Pulse	0.15	3
Ca			1	6271.417	ug/l	2.68	1,245,711.31	4.387E-01	Analog	0.10	3
Sr			1	62.347	ug/l	1.97	539,804.89	1.599E-01	Pulse	0.10	3
Mo			1	4.845	ug/l	3.85	8,305.79	2.461E-03	Pulse	0.10	3
Ag			1	0.429	ug/l	6.62	1,783.49	5.166E-04	Pulse	0.10	3
Sn			1	20.971	ug/l	1.16	58,700.24	1.700E-02	Pulse	0.10	3
Sb			1	1.514	ug/l	0.98	5,331.14	1.135E-03	Pulse	0.10	3
Ba			1	509.383	ug/l	1.22	652,299.69	1.389E-01	Pulse	0.10	3
Tl			1	1.465	ug/l	4.36	11,151.23	3.927E-03	Pulse	0.10	3
Pb			1	254.910	ug/l	1.00	672,016.32	2.366E-01	Pulse	0.10	3
Pb			1	240.133	ug/l	0.41	554,271.76	1.952E-01	Pulse	0.10	3
Pb			1	250.251	ug/l	0.56	2,621,067.54	9.229E-01	Analog	0.10	3
Na			2	413.609	ug/l	2.18	84,432.44	7.638E-01	Pulse	0.30	3
Mg			2	8651.495	ug/l	2.17	811,200.14	7.339E+00	Pulse	0.30	3
Al			2	92142.423	ug/l	1.54	3,004,727.52	2.718E+01	Analog	0.30	3
K			2	4674.382	ug/l	0.89	325,434.02	2.944E+00	Pulse	0.30	3
Ca			2	6327.142	ug/l	2.24	22,417.38	2.028E-01	Pulse	0.30	3
Ti			2	1072.247	ug/l	2.22	26,840.78	2.428E-01	Pulse	0.30	3
V			2	213.018	ug/l	1.58	179,473.53	1.624E+00	Pulse	0.30	3
Cr			2	121.581	ug/l	1.13	129,935.96	1.175E+00	Pulse	0.30	3
Mn			2	5396.682	ug/l	0.13	3,065,280.36	2.773E+01	Analog	0.30	3
Fe			2	103703.102	ug/l	1.36	92,186,385.23	8.339E+02	Analog	0.30	3
Co			2	46.161	ug/l	0.44	81,646.31	7.385E-01	Pulse	0.30	3
Ni			2	59.048	ug/l	0.45	28,554.88	2.583E-01	Pulse	0.30	3
Cu			2	61.705	ug/l	1.36	80,100.71	7.246E-01	Pulse	0.30	3
Zn			2	481.974	ug/l	1.88	103,724.72	9.384E-01	Pulse	0.30	3
As			2	34.622	ug/l	2.77	3,835.80	3.469E-02	Pulse	1.00	3
Cd			2	1.250	ug/l	7.41	380.60	5.602E-04	Pulse	0.30	3
Sn			2	22.944	ug/l	0.62	14,512.36	2.135E-02	Pulse	0.30	3
Se			3	6.091	ug/l	7.96	104.67	1.095E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,876,130.47	1.71	96.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,840,226.31	1.67	106.7	Analog	0.10	3
1	Ge		561,334.39	1.07	104.3	Pulse	0.10	3
1	Ge		757,673.66	1.68	102.5	Pulse	0.10	3
1	Rh		3,375,684.64	0.96	96.5	Analog	0.10	3
1	In		3,453,195.08	0.80	97.6	Analog	0.10	3
1	Tb		4,695,969.72	0.62	98.6	Analog	0.10	3
1	Ho		4,629,133.68	1.04	99.1	Analog	0.10	3
1	Bi		2,840,021.73	0.13	95.8	Analog	0.10	3
2	Sc		110,554.03	1.27	102.7	Pulse	0.30	3
2	Ge		71,360.69	0.75	103.6	Pulse	0.30	3
2	Ge		103,747.38	0.53	99.7	Pulse	0.30	3
2	Rh		1,674,024.06	0.22	95.6	Analog	0.30	3
2	In		679,628.51	0.63	98.3	Pulse	0.30	3
2	Tb		2,309,026.44	0.64	98.2	Analog	0.30	3
2	Ho		2,331,645.74	0.46	98.1	Analog	0.30	3
2	Bi		1,579,576.05	0.66	96.9	Analog	0.30	3
3	Sc		99,160.17	0.36	104.3	Pulse	0.30	3
3	Ge		64,890.43	0.73	102.1	Pulse	0.30	3
3	Ge		95,529.92	1.55	99.1	Pulse	0.30	3
3	Rh		1,008,068.09	0.22	97.4	Pulse	0.30	3
3	Tb		1,738,663.68	1.29	99.0	Analog	0.30	3

Quantitation Report

File Name	044SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:52
Sample Name	JD49491-5
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.363	ug/l	0.44	7,967.30	2.750E-03	Pulse	0.25	3
B			1	23.887	ug/l	0.89	31,690.56	1.094E-02	Pulse	0.15	3
Ca			1	4003.713	ug/l	0.62	795,979.65	2.818E-01	Pulse	0.10	3
Sr			1	52.669	ug/l	1.57	456,014.28	1.351E-01	Pulse	0.10	3
Mo			1	4.143	ug/l	0.90	7,111.86	2.107E-03	Pulse	0.10	3
Ag			1	0.446	ug/l	23.81	1,833.51	5.368E-04	Pulse	0.10	3
Sn			1	20.411	ug/l	1.03	56,629.63	1.656E-02	Pulse	0.10	3
Sb			1	1.654	ug/l	4.11	5,777.96	1.234E-03	Pulse	0.10	3
Ba			1	577.536	ug/l	1.13	737,592.05	1.575E-01	Pulse	0.10	3
Tl			1	1.454	ug/l	2.19	11,204.63	3.897E-03	Pulse	0.10	3
Pb			1	324.903	ug/l	0.28	866,462.67	3.014E-01	Pulse	0.10	3
Pb			1	307.701	ug/l	0.35	718,490.72	2.499E-01	Pulse	0.10	3
Pb			1	320.316	ug/l	0.15	3,393,780.60	1.180E+00	Analog	0.10	3
Na			2	582.750	ug/l	1.79	115,990.96	1.061E+00	Pulse	0.30	3
Mg			2	8177.505	ug/l	0.65	758,340.80	6.937E+00	Pulse	0.30	3
Al			2	88735.698	ug/l	1.47	2,861,569.26	2.618E+01	Analog	0.30	3
K			2	4420.154	ug/l	1.91	305,030.23	2.790E+00	Pulse	0.30	3
Ca			2	4231.158	ug/l	0.12	14,854.56	1.359E-01	Pulse	0.30	3
Ti			2	1061.610	ug/l	2.17	26,284.98	2.404E-01	Pulse	0.30	3
V			2	219.738	ug/l	0.68	183,076.44	1.675E+00	Pulse	0.30	3
Cr			2	119.093	ug/l	0.58	125,872.83	1.151E+00	Pulse	0.30	3
Mn			2	1628.407	ug/l	0.43	914,723.95	8.367E+00	Pulse	0.30	3
Fe			2	97722.082	ug/l	0.67	85,908,372.14	7.859E+02	Analog	0.30	3
Co			2	39.010	ug/l	0.74	68,238.18	6.242E-01	Pulse	0.30	3
Ni			2	61.056	ug/l	2.36	29,160.40	2.668E-01	Pulse	0.30	3
Cu			2	67.812	ug/l	0.17	86,926.76	7.952E-01	Pulse	0.30	3
Zn			2	349.007	ug/l	1.30	76,308.69	6.981E-01	Pulse	0.30	3
As			2	31.148	ug/l	3.73	3,413.70	3.123E-02	Pulse	1.00	3
Cd			2	0.460	ug/l	24.79	144.02	2.117E-04	Pulse	0.30	3
Sn			2	21.987	ug/l	0.33	13,932.96	2.047E-02	Pulse	0.30	3
Se			3	6.156	ug/l	2.25	104.60	1.106E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,897,050.91	0.33	97.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,824,477.98	1.11	106.1	Analog	0.10	3
1	Ge		559,613.53	1.57	104.0	Pulse	0.10	3
1	Ge		750,666.79	1.34	101.5	Pulse	0.10	3
1	Rh		3,375,022.13	0.63	96.5	Analog	0.10	3
1	In		3,420,294.87	1.26	96.6	Analog	0.10	3
1	Tb		4,683,680.66	0.71	98.3	Analog	0.10	3
1	Ho		4,647,582.53	0.38	99.5	Analog	0.10	3
1	Bi		2,874,891.63	0.31	97.0	Analog	0.10	3
2	Sc		109,320.68	0.71	101.6	Pulse	0.30	3
2	Ge		70,041.69	0.36	101.7	Pulse	0.30	3
2	Ge		102,709.42	0.78	98.8	Pulse	0.30	3
2	Rh		1,675,302.68	0.20	95.7	Analog	0.30	3
2	In		680,790.85	0.52	98.4	Pulse	0.30	3
2	Tb		2,328,923.45	1.15	99.1	Analog	0.30	3
2	Ho		2,338,594.63	0.19	98.4	Analog	0.30	3
2	Bi		1,596,698.20	1.65	97.9	Analog	0.30	3
3	Sc		97,478.25	0.68	102.5	Pulse	0.30	3
3	Ge		63,743.72	1.27	100.3	Pulse	0.30	3
3	Ge		94,561.56	0.07	98.1	Pulse	0.30	3
3	Rh		1,009,555.06	0.50	97.6	Pulse	0.30	3
3	Tb		1,742,780.07	0.13	99.2	Analog	0.30	3

Quantitation Report

File Name	045SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:56
Sample Name	JD49491-7
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	6.306	ug/l	2.91	11,226.53	3.917E-03	Pulse	0.25	3
B			1	21.388	ug/l	1.24	28,579.98	9.972E-03	Pulse	0.15	3
Ca			1	5569.924	ug/l	0.35	1,089,316.83	3.902E-01	Pulse	0.10	3
Sr			1	55.293	ug/l	1.60	471,383.25	1.418E-01	Pulse	0.10	3
Mo			1	4.811	ug/l	2.07	8,122.37	2.444E-03	Pulse	0.10	3
Ag			1	0.429	ug/l	6.24	1,756.83	5.170E-04	Pulse	0.10	3
Sn			1	21.497	ug/l	0.74	59,195.40	1.741E-02	Pulse	0.10	3
Sb			1	1.969	ug/l	5.55	6,775.01	1.455E-03	Pulse	0.10	3
Ba			1	709.508	ug/l	0.26	900,643.79	1.935E-01	Pulse	0.10	3
Tl			1	1.293	ug/l	1.49	9,760.28	3.472E-03	Pulse	0.10	3
Pb			1	260.066	ug/l	0.55	678,466.99	2.414E-01	Pulse	0.10	3
Pb			1	243.710	ug/l	0.72	556,681.16	1.981E-01	Pulse	0.10	3
Pb			1	254.351	ug/l	0.14	2,636,347.09	9.380E-01	Analog	0.10	3
Na			2	397.666	ug/l	3.40	80,283.64	7.357E-01	Pulse	0.30	3
Mg			2	9207.487	ug/l	1.45	852,308.11	7.810E+00	Pulse	0.30	3
Al			2	91214.220	ug/l	1.93	2,936,497.31	2.691E+01	Analog	0.30	3
K			2	4329.777	ug/l	1.56	298,578.93	2.736E+00	Pulse	0.30	3
Ca			2	5840.743	ug/l	1.90	20,437.10	1.873E-01	Pulse	0.30	3
Ti			2	1242.986	ug/l	1.68	30,717.39	2.815E-01	Pulse	0.30	3
V			2	267.647	ug/l	1.46	222,528.15	2.039E+00	Pulse	0.30	3
Cr			2	133.094	ug/l	1.40	140,400.07	1.286E+00	Pulse	0.30	3
Mn			2	9895.253	ug/l	1.55	5,548,014.22	5.084E+01	Analog	0.30	3
Fe			2	135096.653	ug/l	1.93	118,549,666.40	1.086E+03	Analog	0.30	3
Co			2	79.842	ug/l	1.38	139,374.65	1.277E+00	Pulse	0.30	3
Ni			2	74.192	ug/l	1.20	35,163.10	3.222E-01	Pulse	0.30	3
Cu			2	78.064	ug/l	0.48	99,713.16	9.136E-01	Pulse	0.30	3
Zn			2	372.753	ug/l	2.45	80,859.98	7.410E-01	Pulse	0.30	3
As			2	46.250	ug/l	1.55	5,051.13	4.628E-02	Pulse	1.00	3
Cd			2	0.970	ug/l	12.49	291.76	4.366E-04	Pulse	0.30	3
Sn			2	22.781	ug/l	1.23	14,175.37	2.120E-02	Pulse	0.30	3
Se			3	6.629	ug/l	6.41	112.67	1.188E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,866,143.58	0.15	96.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,791,740.06	0.44	104.9	Analog	0.10	3
1	Ge		553,936.53	0.78	102.9	Pulse	0.10	3
1	Ge		745,381.81	0.78	100.8	Pulse	0.10	3
1	Rh		3,323,106.51	0.40	95.0	Analog	0.10	3
1	In		3,399,131.50	0.66	96.0	Analog	0.10	3
1	Tb		4,655,445.66	1.08	97.7	Analog	0.10	3
1	Ho		4,579,762.74	0.72	98.0	Analog	0.10	3
1	Bi		2,810,702.56	1.03	94.8	Analog	0.10	3
2	Sc		109,144.14	1.11	101.4	Pulse	0.30	3
2	Ge		69,980.39	1.39	101.6	Pulse	0.30	3
2	Ge		102,616.59	0.16	98.7	Pulse	0.30	3
2	Rh		1,685,372.12	1.06	96.2	Analog	0.30	3
2	In		668,573.08	0.96	96.7	Pulse	0.30	3
2	Tb		2,298,759.91	2.24	97.8	Analog	0.30	3
2	Ho		2,337,006.99	0.90	98.4	Analog	0.30	3
2	Bi		1,561,421.47	0.27	95.7	Analog	0.30	3
3	Sc		96,802.25	1.00	101.8	Pulse	0.30	3
3	Ge		63,777.19	0.90	100.4	Pulse	0.30	3
3	Ge		94,830.14	0.45	98.4	Pulse	0.30	3
3	Rh		994,595.69	0.66	96.1	Pulse	0.30	3
3	Tb		1,724,172.81	0.63	98.2	Analog	0.30	3

Quantitation Report

File Name	046SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 14:59
Sample Name	JD49491-9
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.950	ug/l	0.12	8,898.44	3.103E-03	Pulse	0.25	3
B			1	21.830	ug/l	5.91	29,080.83	1.014E-02	Pulse	0.15	3
Ca			1	5252.041	ug/l	1.06	1,022,175.56	3.682E-01	Pulse	0.10	3
Sr			1	52.285	ug/l	1.34	444,149.59	1.341E-01	Pulse	0.10	3
Mo			1	4.543	ug/l	2.79	7,645.44	2.309E-03	Pulse	0.10	3
Ag			1	0.367	ug/l	11.04	1,490.13	4.430E-04	Pulse	0.10	3
Sn			1	20.829	ug/l	1.39	56,789.88	1.689E-02	Pulse	0.10	3
Sb			1	1.620	ug/l	2.51	5,661.23	1.210E-03	Pulse	0.10	3
Ba			1	519.946	ug/l	1.21	663,456.10	1.418E-01	Pulse	0.10	3
Tl			1	1.308	ug/l	3.25	9,903.66	3.513E-03	Pulse	0.10	3
Pb			1	230.766	ug/l	1.55	604,123.45	2.143E-01	Pulse	0.10	3
Pb			1	215.827	ug/l	1.00	494,692.27	1.755E-01	Pulse	0.10	3
Pb			1	225.494	ug/l	0.85	2,345,256.36	8.319E-01	Analog	0.10	3
Na			2	366.986	ug/l	2.29	73,704.00	6.818E-01	Pulse	0.30	3
Mg			2	11021.055	ug/l	0.24	1,010,325.55	9.347E+00	Pulse	0.30	3
Al			2	100669.276	ug/l	0.40	3,210,119.45	2.970E+01	Analog	0.30	3
K			2	4609.931	ug/l	0.70	314,006.20	2.905E+00	Pulse	0.30	3
Ca			2	5377.651	ug/l	1.76	18,645.05	1.725E-01	Pulse	0.30	3
Ti			2	1481.050	ug/l	0.76	36,248.16	3.353E-01	Pulse	0.30	3
V			2	247.073	ug/l	0.86	203,495.41	1.883E+00	Pulse	0.30	3
Cr			2	142.386	ug/l	0.31	148,751.42	1.376E+00	Pulse	0.30	3
Mn			2	2833.662	ug/l	0.16	1,573,786.91	1.456E+01	Analog	0.30	3
Fe			2	127852.692	ug/l	1.11	111,127,180.03	1.028E+03	Analog	0.30	3
Co			2	54.565	ug/l	0.19	94,357.26	8.729E-01	Pulse	0.30	3
Ni			2	81.427	ug/l	0.85	38,128.62	3.527E-01	Pulse	0.30	3
Cu			2	79.760	ug/l	0.96	100,870.07	9.332E-01	Pulse	0.30	3
Zn			2	378.544	ug/l	0.90	81,224.29	7.514E-01	Pulse	0.30	3
As			2	42.364	ug/l	2.43	4,583.99	4.241E-02	Pulse	1.00	3
Cd			2	0.776	ug/l	2.95	235.08	3.508E-04	Pulse	0.30	3
Sn			2	22.759	ug/l	0.31	14,195.41	2.118E-02	Pulse	0.30	3
Se			3	6.808	ug/l	5.31	114.27	1.219E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,868,111.49	1.22	96.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,776,302.25	0.70	104.3	Analog	0.10	3
1	Ge		549,564.22	1.25	102.1	Pulse	0.10	3
1	Ge		743,211.53	1.55	100.5	Pulse	0.10	3
1	Rh		3,311,054.85	0.47	94.6	Analog	0.10	3
1	In		3,363,036.29	0.71	95.0	Analog	0.10	3
1	Tb		4,679,101.81	0.04	98.2	Analog	0.10	3
1	Ho		4,601,126.39	0.11	98.5	Analog	0.10	3
1	Bi		2,819,251.10	0.32	95.1	Analog	0.10	3
2	Sc		108,094.00	0.43	100.5	Pulse	0.30	3
2	Ge		69,951.25	1.14	101.6	Pulse	0.30	3
2	Ge		102,435.30	0.90	98.5	Pulse	0.30	3
2	Rh		1,638,552.40	0.60	93.6	Analog	0.30	3
2	In		670,177.83	0.41	96.9	Pulse	0.30	3
2	Tb		2,305,935.88	0.76	98.1	Analog	0.30	3
2	Ho		2,329,077.06	0.75	98.0	Analog	0.30	3
2	Bi		1,566,813.97	0.97	96.1	Analog	0.30	3
3	Sc		96,714.09	0.87	101.7	Pulse	0.30	3
3	Ge		63,099.17	0.73	99.3	Pulse	0.30	3
3	Ge		93,754.04	0.40	97.3	Pulse	0.30	3
3	Rh		995,205.41	0.76	96.2	Pulse	0.30	3
3	Tb		1,708,185.87	1.72	97.2	Analog	0.30	3

Quantitation Report

File Name	047SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:02
Sample Name	JD49491-11
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.727	ug/l	1.54	8,322.13	2.969E-03	Pulse	0.25	3
B			1	20.029	ug/l	2.17	26,476.71	9.445E-03	Pulse	0.15	3
Ca			1	5407.434	ug/l	0.94	1,033,875.01	3.789E-01	Pulse	0.10	3
Sr			1	70.643	ug/l	1.01	589,742.23	1.812E-01	Pulse	0.10	3
Mo			1	4.676	ug/l	4.12	7,735.52	2.376E-03	Pulse	0.10	3
Ag			1	0.448	ug/l	9.53	1,796.83	5.395E-04	Pulse	0.10	3
Sn			1	20.390	ug/l	2.74	55,073.57	1.654E-02	Pulse	0.10	3
Sb			1	1.649	ug/l	6.32	5,651.23	1.230E-03	Pulse	0.10	3
Ba			1	593.436	ug/l	1.09	743,229.62	1.618E-01	Pulse	0.10	3
Tl			1	1.382	ug/l	4.32	10,380.63	3.708E-03	Pulse	0.10	3
Pb			1	289.231	ug/l	0.95	751,488.35	2.684E-01	Pulse	0.10	3
Pb			1	271.411	ug/l	0.38	617,455.68	2.205E-01	Pulse	0.10	3
Pb			1	282.664	ug/l	0.68	2,917,896.35	1.042E+00	Analog	0.10	3
Na			2	570.548	ug/l	0.24	113,632.08	1.040E+00	Pulse	0.30	3
Mg			2	7162.532	ug/l	0.82	664,258.41	6.077E+00	Pulse	0.30	3
Al			2	84057.309	ug/l	1.39	2,710,502.60	2.480E+01	Analog	0.30	3
K			2	4272.498	ug/l	0.80	295,285.41	2.701E+00	Pulse	0.30	3
Ca			2	5709.012	ug/l	1.62	20,009.95	1.831E-01	Pulse	0.30	3
Ti			2	888.766	ug/l	0.94	22,004.95	2.013E-01	Pulse	0.30	3
V			2	277.234	ug/l	0.39	230,864.17	2.112E+00	Pulse	0.30	3
Cr			2	129.098	ug/l	0.34	136,414.87	1.248E+00	Pulse	0.30	3
Mn			2	4190.548	ug/l	1.06	2,353,419.07	2.153E+01	Analog	0.30	3
Fe			2	145439.594	ug/l	1.02	127,833,194.92	1.169E+03	Analog	0.30	3
Co			2	49.526	ug/l	0.55	86,612.33	7.924E-01	Pulse	0.30	3
Ni			2	53.548	ug/l	0.56	25,696.81	2.351E-01	Pulse	0.30	3
Cu			2	65.110	ug/l	1.82	83,501.52	7.639E-01	Pulse	0.30	3
Zn			2	332.782	ug/l	0.24	73,101.96	6.687E-01	Pulse	0.30	3
As			2	44.095	ug/l	0.69	4,824.39	4.413E-02	Pulse	1.00	3
Cd			2	0.705	ug/l	19.77	212.88	3.195E-04	Pulse	0.30	3
Sn			2	22.582	ug/l	0.59	14,003.02	2.102E-02	Pulse	0.30	3
Se			3	6.911	ug/l	6.19	117.27	1.237E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,803,301.58	0.98	94.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,728,334.65	0.39	102.5	Analog	0.10	3
1	Ge		541,464.93	1.01	100.6	Pulse	0.10	3
1	Ge		725,444.89	0.89	98.1	Pulse	0.10	3
1	Rh		3,255,240.47	0.85	93.0	Analog	0.10	3
1	In		3,329,363.93	0.64	94.1	Analog	0.10	3
1	Tb		4,593,194.10	1.16	96.4	Analog	0.10	3
1	Ho		4,538,977.22	1.22	97.2	Analog	0.10	3
1	Bi		2,800,149.02	0.84	94.5	Analog	0.10	3
2	Sc		109,313.23	0.75	101.6	Pulse	0.30	3
2	Ge		69,878.54	1.16	101.5	Pulse	0.30	3
2	Ge		101,783.56	0.49	97.9	Pulse	0.30	3
2	Rh		1,645,640.39	1.77	94.0	Analog	0.30	3
2	In		666,254.65	0.09	96.3	Pulse	0.30	3
2	Tb		2,289,512.69	0.32	97.4	Analog	0.30	3
2	Ho		2,300,984.35	0.34	96.8	Analog	0.30	3
2	Bi		1,562,210.67	0.61	95.8	Analog	0.30	3
3	Sc		98,820.56	0.97	103.9	Pulse	0.30	3
3	Ge		63,816.38	0.34	100.4	Pulse	0.30	3
3	Ge		94,827.06	0.38	98.4	Pulse	0.30	3
3	Rh		997,829.09	0.64	96.5	Pulse	0.30	3
3	Tb		1,718,120.49	1.25	97.8	Analog	0.30	3

Quantitation Report

File Name	048SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:06
Sample Name	JD49491-13
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	6.874	ug/l	1.59	11,382.60	4.258E-03	Pulse	0.25	3
B			1	20.000	ug/l	3.09	25,214.75	9.434E-03	Pulse	0.15	3
Ca			1	5928.180	ug/l	1.38	1,098,615.37	4.150E-01	Pulse	0.10	3
Sr			1	50.670	ug/l	1.19	399,668.93	1.300E-01	Pulse	0.10	3
Mo			1	6.257	ug/l	2.42	9,753.36	3.172E-03	Pulse	0.10	3
Ag			1	0.284	ug/l	18.68	1,100.08	3.441E-04	Pulse	0.10	3
Sn			1	19.800	ug/l	2.64	51,304.43	1.608E-02	Pulse	0.10	3
Sb			1	1.646	ug/l	3.55	5,504.52	1.228E-03	Pulse	0.10	3
Ba			1	684.140	ug/l	0.07	835,917.83	1.865E-01	Pulse	0.10	3
Tl			1	1.395	ug/l	3.54	10,150.46	3.744E-03	Pulse	0.10	3
Pb			1	182.933	ug/l	1.96	461,006.44	1.700E-01	Pulse	0.10	3
Pb			1	171.166	ug/l	2.29	377,642.66	1.393E-01	Pulse	0.10	3
Pb			1	178.546	ug/l	1.52	1,787,604.56	6.593E-01	Pulse	0.10	3
Na			2	531.091	ug/l	1.06	100,900.88	9.702E-01	Pulse	0.30	3
Mg			2	8875.597	ug/l	1.20	782,941.55	7.529E+00	Pulse	0.30	3
Al			2	99819.009	ug/l	0.74	3,062,507.86	2.945E+01	Analog	0.30	3
K			2	4751.608	ug/l	0.50	311,035.40	2.990E+00	Pulse	0.30	3
Ca			2	6196.487	ug/l	1.35	20,659.61	1.986E-01	Pulse	0.30	3
Ti			2	1329.762	ug/l	0.47	31,317.51	3.011E-01	Pulse	0.30	3
V			2	378.724	ug/l	1.29	299,897.77	2.884E+00	Pulse	0.30	3
Cr			2	185.023	ug/l	0.58	185,905.63	1.787E+00	Pulse	0.30	3
Mn			2	10095.124	ug/l	1.89	5,393,215.48	5.186E+01	Analog	0.30	3
Fe			2	279356.415	ug/l	1.53	233,572,959.61	2.246E+03	Analog	0.30	3
Co			2	190.376	ug/l	1.01	316,627.68	3.045E+00	Pulse	0.30	3
Ni			2	64.080	ug/l	1.51	29,071.32	2.795E-01	Pulse	0.30	3
Cu			2	82.321	ug/l	1.53	100,126.78	9.628E-01	Pulse	0.30	3
Zn			2	262.291	ug/l	1.22	56,297.37	5.413E-01	Pulse	0.30	3
As			2	87.596	ug/l	1.38	9,097.22	8.748E-02	Pulse	1.00	3
Cd			2	0.644	ug/l	16.28	184.98	2.929E-04	Pulse	0.30	3
Sn			2	22.047	ug/l	2.93	12,945.41	2.052E-02	Pulse	0.30	3
Se			3	8.202	ug/l	0.73	131.33	1.460E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,672,960.93	1.38	89.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,647,570.27	0.75	99.4	Analog	0.10	3
1	Ge		521,682.48	1.57	96.9	Pulse	0.10	3
1	Ge		687,074.13	1.12	92.9	Pulse	0.10	3
1	Rh		3,074,481.62	1.39	87.9	Analog	0.10	3
1	In		3,191,914.04	1.29	90.2	Analog	0.10	3
1	Tb		4,481,036.81	1.04	94.1	Analog	0.10	3
1	Ho		4,420,870.77	0.35	94.6	Analog	0.10	3
1	Bi		2,711,363.29	0.39	91.5	Analog	0.10	3
2	Sc		104,010.92	1.87	96.7	Pulse	0.30	3
2	Ge		65,600.00	0.04	95.3	Pulse	0.30	3
2	Ge		96,019.23	1.17	92.3	Pulse	0.30	3
2	Rh		1,552,145.28	0.53	88.6	Analog	0.30	3
2	In		630,954.19	1.08	91.2	Pulse	0.30	3
2	Tb		2,214,132.27	1.49	94.2	Analog	0.30	3
2	Ho		2,217,715.82	1.39	93.3	Analog	0.30	3
2	Bi		1,501,797.13	1.09	92.1	Analog	0.30	3
3	Sc		95,956.21	0.94	100.9	Pulse	0.30	3
3	Ge		62,518.05	1.27	98.4	Pulse	0.30	3
3	Ge		89,959.78	1.59	93.4	Pulse	0.30	3
3	Rh		961,436.59	0.37	92.9	Pulse	0.30	3
3	Tb		1,698,007.36	0.70	96.7	Analog	0.30	3

Quantitation Report

File Name	049SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:09
Sample Name	JD49491-15
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.047	ug/l	1.98	7,836.57	3.161E-03	Pulse	0.25	3
B			1	26.759	ug/l	4.14	29,873.51	1.205E-02	Pulse	0.15	3
Ca			1	8777.329	ug/l	0.37	1,503,617.06	6.121E-01	Analog	0.10	3
Sr			1	77.566	ug/l	1.41	581,839.76	1.989E-01	Pulse	0.10	3
Mo			1	5.917	ug/l	3.02	8,779.41	3.001E-03	Pulse	0.10	3
Ag			1	0.334	ug/l	2.00	1,223.43	4.034E-04	Pulse	0.10	3
Sn			1	20.866	ug/l	1.30	51,304.28	1.692E-02	Pulse	0.10	3
Sb			1	1.383	ug/l	1.92	4,507.49	1.044E-03	Pulse	0.10	3
Ba			1	527.483	ug/l	0.79	621,341.46	1.438E-01	Pulse	0.10	3
Tl			1	1.466	ug/l	2.69	10,430.68	3.930E-03	Pulse	0.10	3
Pb			1	170.443	ug/l	0.89	420,595.71	1.585E-01	Pulse	0.10	3
Pb			1	160.125	ug/l	0.32	345,936.67	1.303E-01	Pulse	0.10	3
Pb			1	166.875	ug/l	0.38	1,636,047.61	6.164E-01	Pulse	0.10	3
Na			2	779.065	ug/l	2.37	136,291.77	1.406E+00	Pulse	0.30	3
Mg			2	10535.138	ug/l	1.53	866,246.96	8.935E+00	Pulse	0.30	3
Al			2	108148.745	ug/l	1.36	3,093,175.71	3.190E+01	Analog	0.30	3
K			2	6126.760	ug/l	1.30	370,399.67	3.820E+00	Pulse	0.30	3
Ca			2	8969.767	ug/l	1.83	27,840.04	2.872E-01	Pulse	0.30	3
Ti			2	1549.857	ug/l	0.25	34,028.20	3.509E-01	Pulse	0.30	3
V			2	337.942	ug/l	1.16	249,523.91	2.574E+00	Pulse	0.30	3
Cr			2	171.620	ug/l	1.67	160,753.86	1.658E+00	Pulse	0.30	3
Mn			2	2159.408	ug/l	0.93	1,075,786.59	1.110E+01	Pulse	0.30	3
Fe			2	195486.293	ug/l	1.63	152,387,385.06	1.572E+03	Analog	0.30	3
Co			2	43.917	ug/l	1.90	68,120.18	7.027E-01	Pulse	0.30	3
Ni			2	63.418	ug/l	0.21	26,834.18	2.767E-01	Pulse	0.30	3
Cu			2	75.774	ug/l	1.56	86,009.71	8.871E-01	Pulse	0.30	3
Zn			2	485.060	ug/l	1.01	91,526.79	9.439E-01	Pulse	0.30	3
As			2	60.728	ug/l	3.93	5,883.74	6.071E-02	Pulse	1.00	3
Cd			2	0.836	ug/l	9.20	225.03	3.774E-04	Pulse	0.30	3
Sn			2	22.903	ug/l	1.94	12,714.10	2.132E-02	Pulse	0.30	3
Se			3	6.468	ug/l	2.58	101.33	1.160E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,479,334.71	1.25	83.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,456,422.25	1.29	92.3	Analog	0.10	3
1	Ge		482,154.02	1.29	89.6	Pulse	0.10	3
1	Ge		634,305.05	1.43	85.8	Pulse	0.10	3
1	Rh		2,925,126.52	0.97	83.6	Analog	0.10	3
1	In		3,033,000.71	1.22	85.7	Analog	0.10	3
1	Tb		4,319,451.08	0.30	90.7	Analog	0.10	3
1	Ho		4,282,499.62	0.59	91.7	Analog	0.10	3
1	Bi		2,654,357.78	1.01	89.6	Analog	0.10	3
2	Sc		96,969.71	2.17	90.1	Pulse	0.30	3
2	Ge		61,115.98	1.65	88.7	Pulse	0.30	3
2	Ge		89,088.31	1.27	85.7	Pulse	0.30	3
2	Rh		1,472,301.09	1.02	84.1	Analog	0.30	3
2	In		596,507.71	1.12	86.3	Pulse	0.30	3
2	Tb		2,123,694.57	0.66	90.3	Analog	0.30	3
2	Ho		2,143,826.44	1.23	90.2	Analog	0.30	3
2	Bi		1,473,105.78	1.64	90.3	Analog	0.30	3
3	Sc		91,820.79	0.99	96.6	Pulse	0.30	3
3	Ge		59,630.76	0.70	93.8	Pulse	0.30	3
3	Ge		87,344.45	0.75	90.6	Pulse	0.30	3
3	Rh		937,446.98	1.09	90.6	Pulse	0.30	3
3	Tb		1,649,755.49	1.12	93.9	Analog	0.30	3

Quantitation Report

File Name	050_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:13
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.968	ug/l	0.48	372,452.68	1.532E-01	Pulse	0.25	3
B			1	99.497	ug/l	1.36	472,463.00	1.943E-01	Pulse	0.15	3
Ca			1	5216.729	ug/l	1.30	4,002,060.98	1.809E+00	Analog	0.10	3
Sr			1	51.844	ug/l	0.68	1,913,357.21	6.644E-01	Analog	0.10	3
Mo			1	51.576	ug/l	0.87	374,263.00	1.300E-01	Pulse	0.10	3
Ag			1	52.580	ug/l	0.66	937,564.05	3.131E-01	Pulse	0.10	3
Sn			1	50.295	ug/l	2.11	594,974.34	1.987E-01	Pulse	0.10	3
Sb			1	50.780	ug/l	1.22	761,491.06	1.785E-01	Pulse	0.10	3
Ba			1	49.547	ug/l	0.92	288,350.59	6.760E-02	Pulse	0.10	3
Tl			1	53.535	ug/l	0.11	1,849,159.09	7.071E-01	Analog	0.10	3
Pb			1	51.680	ug/l	1.03	627,256.40	2.399E-01	Pulse	0.10	3
Pb			1	50.574	ug/l	0.99	537,373.03	2.055E-01	Pulse	0.10	3
Pb			1	51.888	ug/l	0.82	2,501,754.25	9.567E-01	Analog	0.10	3
Na			2	5388.615	ug/l	0.35	4,165,192.34	4.738E+01	Analog	0.30	3
Mg			2	5452.398	ug/l	1.37	2,031,501.58	2.311E+01	Analog	0.30	3
Al			2	5193.317	ug/l	1.14	673,586.29	7.662E+00	Pulse	0.30	3
K			2	5310.747	ug/l	0.18	1,419,438.45	1.615E+01	Analog	0.30	3
Ca			2	5443.901	ug/l	1.13	76,466.35	8.699E-01	Pulse	0.30	3
Ti			2	53.630	ug/l	2.93	5,350.92	6.087E-02	Pulse	0.30	3
V			2	52.857	ug/l	1.00	177,005.26	2.014E+00	Pulse	0.30	3
Cr			2	52.455	ug/l	1.02	222,644.57	2.533E+00	Pulse	0.30	3
Mn			2	52.800	ug/l	0.66	119,376.59	1.358E+00	Pulse	0.30	3
Fe			2	5467.923	ug/l	1.04	19,342,874.79	2.200E+02	Analog	0.30	3
Co			2	52.047	ug/l	1.00	365,837.86	4.162E+00	Pulse	0.30	3
Ni			2	52.218	ug/l	0.34	97,665.89	1.111E+00	Pulse	0.30	3
Cu			2	51.662	ug/l	0.14	263,355.35	2.996E+00	Pulse	0.30	3
Zn			2	51.949	ug/l	1.18	47,188.88	5.367E-01	Pulse	0.30	3
As			2	53.346	ug/l	0.58	23,382.37	2.660E-01	Pulse	1.00	3
Cd			2	51.630	ug/l	1.32	67,055.96	1.139E-01	Pulse	0.30	3
Sn			2	52.913	ug/l	0.92	144,605.64	2.456E-01	Pulse	0.30	3
Se			3	209.125	ug/l	0.91	15,283.31	1.809E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,431,487.71	1.00	81.6	Analog	0.10	3
1	Sc		2,211,917.31	1.09	83.1	Analog	0.10	3
1	Ge		457,692.81	1.44	85.0	Pulse	0.10	3

Quantitation Report

1	Ge		637,931.17	0.47	86.3	Pulse	0.10	3
1	Rh		2,880,042.87	0.27	82.3	Analog	0.10	3
1	In		2,994,299.99	0.63	84.6	Analog	0.10	3
1	Tb		4,265,786.08	0.87	89.5	Analog	0.10	3
1	Ho		4,250,657.75	0.74	91.0	Analog	0.10	3
1	Bi		2,615,037.51	1.12	88.2	Analog	0.10	3
2	Sc		87,913.54	0.93	81.7	Pulse	0.30	3
2	Ge		58,241.44	1.62	84.6	Pulse	0.30	3
2	Ge		88,094.89	0.86	84.7	Pulse	0.30	3
2	Rh		1,437,591.36	0.32	82.1	Analog	0.30	3
2	In		588,851.41	0.93	85.2	Pulse	0.30	3
2	Tb		2,115,419.84	1.88	90.0	Analog	0.30	3
2	Ho		2,115,859.92	1.29	89.1	Analog	0.30	3
2	Bi		1,461,291.57	0.58	89.6	Analog	0.30	3
3	Sc		81,671.09	1.11	85.9	Pulse	0.30	3
3	Ge		55,360.09	0.47	87.1	Pulse	0.30	3
3	Ge		84,489.29	0.97	87.7	Pulse	0.30	3
3	Rh		908,187.95	0.37	87.8	Pulse	0.30	3
3	Tb		1,628,617.57	0.38	92.7	Analog	0.30	3

Quantitation Report

File Name	051BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:16
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.007	ug/l	-63.07	280.01	1.096E-04	Pulse	0.25	3
B			1	1.706	ug/l	12.80	12,756.17	4.994E-03	Pulse	0.15	3
Ca			1	-3.896	ug/l	-16.19	7,808.81	3.474E-03	Pulse	0.10	3
Sr			1	0.004	ug/l	85.65	673.37	2.225E-04	Pulse	0.10	3
Mo			1	0.026	ug/l	40.97	260.01	8.588E-05	Pulse	0.10	3
Ag			1	0.005	ug/l	16.01	113.34	3.571E-05	Pulse	0.10	3
Sn			1	0.116	ug/l	4.11	2,940.38	9.267E-04	Pulse	0.10	3
Sb			1	0.017	ug/l	40.48	580.03	1.325E-04	Pulse	0.10	3
Ba			1	-0.037	ug/l	-5.17	96.67	2.209E-05	Pulse	0.10	3
Tl			1	0.027	ug/l	8.51	1,140.09	4.190E-04	Pulse	0.10	3
Pb			1	0.031	ug/l	31.23	2,430.29	8.934E-04	Pulse	0.10	3
Pb			1	0.043	ug/l	35.98	2,026.89	7.449E-04	Pulse	0.10	3
Pb			1	0.034	ug/l	8.43	9,521.56	3.500E-03	Pulse	0.10	3
Na			2	0.237	ug/l	62.17	3,438.19	3.908E-02	Pulse	0.30	3
Mg			2	-0.060	ug/l	-186.72	604.46	6.870E-03	Pulse	0.30	3
Al			2	1.921	ug/l	20.64	521.13	5.922E-03	Pulse	0.30	3
K			2	2.447	ug/l	34.49	11,506.32	1.308E-01	Pulse	0.30	3
Ca			2	-2.408	ug/l	-22.85	35.56	4.042E-04	Pulse	0.30	3
Ti			2	0.037	ug/l	241.86	20.00	2.274E-04	Pulse	0.30	3
V			2	-0.039	ug/l	-27.93	190.00	2.159E-03	Pulse	0.30	3
Cr			2	-0.008	ug/l	-95.45	189.33	2.152E-03	Pulse	0.30	3
Mn			2	0.076	ug/l	26.38	317.78	3.612E-03	Pulse	0.30	3
Fe			2	19.249	ug/l	16.06	89,350.19	1.015E+00	Pulse	0.30	3
Co			2	0.001	ug/l	177.28	41.98	4.771E-04	Pulse	0.30	3
Ni			2	-0.024	ug/l	-92.47	756.69	8.599E-03	Pulse	0.30	3
Cu			2	0.054	ug/l	13.93	1,314.51	1.494E-02	Pulse	0.30	3
Zn			2	-0.526	ug/l	-51.22	5,503.20	6.255E-02	Pulse	0.30	3
As			2	0.024	ug/l	36.91	27.33	3.107E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.012	ug/l	43.90	21.09	3.470E-05	Pulse	0.30	3
Sn			2	0.386	ug/l	3.87	1,125.61	1.852E-03	Pulse	0.30	3
Se			3	0.219	ug/l	16.45	19.40	2.304E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,555,099.91	0.45	85.7	Analog	0.10	3
1	Sc		2,248,355.49	0.55	84.4	Analog	0.10	3
1	Ge		468,235.72	0.27	87.0	Pulse	0.10	3
1	Ge		652,348.36	0.97	88.2	Pulse	0.10	3
1	Rh		3,025,955.89	1.43	86.5	Analog	0.10	3
1	In		3,173,069.34	0.71	89.6	Analog	0.10	3
1	Tb		4,375,125.98	1.08	91.8	Analog	0.10	3
1	Ho		4,294,150.25	1.03	91.9	Analog	0.10	3
1	Bi		2,720,604.02	0.29	91.8	Analog	0.10	3
2	Sc		87,986.95	0.23	81.8	Pulse	0.30	3
2	Ge		58,615.99	1.16	85.1	Pulse	0.30	3
2	Ge		89,201.10	0.51	85.8	Pulse	0.30	3
2	Rh		1,521,046.23	1.52	86.9	Analog	0.30	3
2	In		607,850.51	0.27	87.9	Pulse	0.30	3
2	Tb		2,133,769.43	0.51	90.8	Analog	0.30	3
2	Ho		2,169,118.39	1.01	91.3	Analog	0.30	3
2	Bi		1,511,112.72	0.75	92.7	Analog	0.30	3
3	Sc		80,243.18	0.93	84.4	Pulse	0.30	3
3	Ge		55,612.24	1.40	87.5	Pulse	0.30	3
3	Ge		84,273.19	0.80	87.5	Pulse	0.30	3
3	Rh		934,434.69	0.15	90.3	Pulse	0.30	3
3	Tb		1,635,024.45	1.39	93.1	Analog	0.30	3

Quantitation Report

File Name	052SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:19
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.427	ug/l	1.19	8,863.75	3.389E-03	Pulse	0.25	3
B			1	31.165	ug/l	1.85	35,980.81	1.376E-02	Pulse	0.15	3
Ca			1	7999.827	ug/l	1.33	1,472,833.63	5.583E-01	Analog	0.10	3
Sr			1	61.887	ug/l	1.15	482,936.06	1.587E-01	Pulse	0.10	3
Mo			1	5.240	ug/l	4.31	8,092.31	2.660E-03	Pulse	0.10	3
Ag			1	0.374	ug/l	10.10	1,423.45	4.520E-04	Pulse	0.10	3
Sn			1	22.041	ug/l	1.32	56,188.15	1.784E-02	Pulse	0.10	3
Sb			1	1.746	ug/l	4.64	5,754.60	1.299E-03	Pulse	0.10	3
Ba			1	598.079	ug/l	0.99	722,744.03	1.631E-01	Pulse	0.10	3
Tl			1	1.507	ug/l	6.51	11,057.81	4.039E-03	Pulse	0.10	3
Pb			1	206.066	ug/l	1.42	524,066.10	1.914E-01	Pulse	0.10	3
Pb			1	192.373	ug/l	0.61	428,343.17	1.565E-01	Pulse	0.10	3
Pb			1	200.679	ug/l	0.45	2,027,682.27	7.407E-01	Pulse	0.10	3
Na			2	592.816	ug/l	2.31	111,342.58	1.079E+00	Pulse	0.30	3
Mg			2	10150.451	ug/l	1.79	888,681.28	8.609E+00	Pulse	0.30	3
Al			2	105272.505	ug/l	1.79	3,205,762.30	3.106E+01	Analog	0.30	3
K			2	6296.246	ug/l	1.25	404,938.11	3.922E+00	Pulse	0.30	3
Ca			2	8202.238	ug/l	1.48	27,116.60	2.627E-01	Pulse	0.30	3
Ti			2	1583.893	ug/l	1.95	37,021.30	3.586E-01	Pulse	0.30	3
V			2	337.499	ug/l	0.71	265,359.04	2.570E+00	Pulse	0.30	3
Cr			2	167.232	ug/l	0.87	166,816.80	1.616E+00	Pulse	0.30	3
Mn			2	3434.315	ug/l	1.72	1,821,531.32	1.765E+01	Analog	0.30	3
Fe			2	204720.876	ug/l	2.14	169,912,935.47	1.646E+03	Analog	0.30	3
Co			2	54.450	ug/l	1.41	89,925.72	8.711E-01	Pulse	0.30	3
Ni			2	64.064	ug/l	2.50	28,847.55	2.795E-01	Pulse	0.30	3
Cu			2	85.238	ug/l	1.74	102,862.29	9.965E-01	Pulse	0.30	3
Zn			2	335.418	ug/l	1.46	69,527.51	6.735E-01	Pulse	0.30	3
As			2	57.949	ug/l	2.35	5,981.11	5.794E-02	Pulse	1.00	3
Cd			2	0.859	ug/l	18.11	239.53	3.877E-04	Pulse	0.30	3
Sn			2	24.032	ug/l	1.57	13,803.92	2.236E-02	Pulse	0.30	3
Se			3	6.988	ug/l	9.33	111.07	1.250E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,615,413.83	1.11	87.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,637,937.88	0.43	99.1	Analog	0.10	3
1	Ge		499,099.57	1.77	92.7	Pulse	0.10	3
1	Ge		666,991.37	1.69	90.2	Pulse	0.10	3
1	Rh		3,042,629.33	2.25	87.0	Analog	0.10	3
1	In		3,149,097.01	0.28	89.0	Analog	0.10	3
1	Tb		4,431,714.41	0.53	93.0	Analog	0.10	3
1	Ho		4,385,071.91	0.36	93.9	Analog	0.10	3
1	Bi		2,737,684.86	0.12	92.4	Analog	0.10	3
2	Sc		103,250.34	1.84	96.0	Pulse	0.30	3
2	Ge		63,145.90	0.98	91.7	Pulse	0.30	3
2	Ge		92,762.93	0.62	89.2	Pulse	0.30	3
2	Rh		1,550,869.04	0.30	88.6	Analog	0.30	3
2	In		617,211.05	0.96	89.3	Pulse	0.30	3
2	Tb		2,203,266.37	1.01	93.7	Analog	0.30	3
2	Ho		2,226,895.54	0.74	93.7	Analog	0.30	3
2	Bi		1,516,874.59	1.50	93.0	Analog	0.30	3
3	Sc		95,716.06	0.85	100.7	Pulse	0.30	3
3	Ge		60,158.12	0.91	94.7	Pulse	0.30	3
3	Ge		88,889.33	0.82	92.2	Pulse	0.30	3
3	Rh		951,115.41	0.02	91.9	Pulse	0.30	3
3	Tb		1,675,148.09	1.43	95.4	Analog	0.30	3

Quantitation Report

File Name	053SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:23
Sample Name	JD49574-7
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.269	ug/l	13.83	716.03	2.914E-04	Pulse	0.25	3
B			1	31.348	ug/l	1.33	33,985.43	1.383E-02	Pulse	0.15	3
Ca			1	135115.560	ug/l	0.16	20,929,930.94	9.353E+00	Analog	0.10	3
Sr			1	700.523	ug/l	0.45	5,208,917.11	1.795E+00	Analog	0.10	3
Mo			1	19.355	ug/l	2.86	28,352.75	9.772E-03	Pulse	0.10	3
Ag			1	1.000	ug/l	5.45	3,650.57	1.196E-03	Pulse	0.10	3
Sn			1	119.703	ug/l	1.16	289,285.59	9.482E-02	Pulse	0.10	3
Sb			1	5.032	ug/l	4.39	15,581.57	3.608E-03	Pulse	0.10	3
Ba			1	6786.730	ug/l	0.70	7,990,135.92	1.850E+00	Analog	0.10	3
Tl			1	0.237	ug/l	6.80	1,846.86	6.828E-04	Pulse	0.10	3
Pb			1	556.997	ug/l	1.40	1,395,633.21	5.162E-01	Analog	0.10	3
Pb			1	543.333	ug/l	1.89	1,192,171.93	4.409E-01	Mix	0.10	3
Pb			1	549.256	ug/l	0.58	5,467,973.43	2.022E+00	Analog	0.10	3
Na			2	1974.081	ug/l	0.76	308,751.33	3.506E+00	Pulse	0.30	3
Mg			2	10704.994	ug/l	0.95	799,569.57	9.079E+00	Pulse	0.30	3
Al			2	5085.427	ug/l	0.67	132,384.56	1.503E+00	Pulse	0.30	3
K			2	2009.964	ug/l	1.13	117,676.87	1.336E+00	Pulse	0.30	3
Ca			2	141348.011	ug/l	0.51	397,542.12	4.514E+00	Pulse	0.30	3
Ti			2	185.505	ug/l	2.03	3,713.80	4.216E-02	Pulse	0.30	3
V			2	19.223	ug/l	2.35	13,195.39	1.498E-01	Pulse	0.30	3
Cr			2	447.248	ug/l	0.51	380,220.48	4.317E+00	Pulse	0.30	3
Mn			2	67530.705	ug/l	1.24	30,553,809.90	3.469E+02	Analog	0.30	3
Fe			2	116489.963	ug/l	1.88	82,492,547.83	9.367E+02	Analog	0.30	3
Co			2	39.963	ug/l	2.14	56,311.68	6.394E-01	Pulse	0.30	3
Ni			2	429.097	ug/l	0.74	160,280.90	1.820E+00	Pulse	0.30	3
Cu			2	5720.647	ug/l	1.41	5,820,557.69	6.609E+01	Analog	0.30	3
Zn			2	1806.658	ug/l	1.05	293,491.04	3.332E+00	Pulse	0.30	3
As			2	109.002	ug/l	1.09	9,583.17	1.088E-01	Pulse	1.00	3
Cd			2	0.933	ug/l	6.19	249.42	4.202E-04	Pulse	0.30	3
Sn			2	126.121	ug/l	1.37	69,519.01	1.171E-01	Pulse	0.30	3
Se			3	3.733	ug/l	13.13	59.07	6.870E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,457,643.28	0.77	82.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,237,737.57	0.98	84.0	Analog	0.10	3
1	Ge		467,372.03	0.97	86.8	Pulse	0.10	3
1	Ge		634,026.27	1.37	85.8	Pulse	0.10	3
1	Rh		2,901,791.00	0.73	82.9	Analog	0.10	3
1	In		3,050,965.81	0.51	86.2	Analog	0.10	3
1	Tb		4,319,185.87	0.59	90.7	Analog	0.10	3
1	Ho		4,334,288.48	0.95	92.8	Analog	0.10	3
1	Bi		2,703,955.48	0.66	91.2	Analog	0.10	3
2	Sc		88,075.29	1.11	81.9	Pulse	0.30	3
2	Ge		58,487.65	0.74	84.9	Pulse	0.30	3
2	Ge		89,264.86	1.96	85.8	Pulse	0.30	3
2	Rh		1,469,951.40	0.41	83.9	Analog	0.30	3
2	In		593,676.73	0.98	85.9	Pulse	0.30	3
2	Tb		2,145,426.37	0.77	91.2	Analog	0.30	3
2	Ho		2,177,703.73	0.07	91.7	Analog	0.30	3
2	Bi		1,513,911.36	0.09	92.8	Analog	0.30	3
3	Sc		82,931.42	0.80	87.2	Pulse	0.30	3
3	Ge		56,530.70	1.22	89.0	Pulse	0.30	3
3	Ge		85,944.75	0.90	89.2	Pulse	0.30	3
3	Rh		917,501.29	0.44	88.7	Pulse	0.30	3
3	Tb		1,671,490.00	1.34	95.2	Analog	0.30	3

Quantitation Report

File Name	054SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:26
Sample Name	JD49193-9
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.663	ug/l	3.77	7,739.19	2.930E-03	Pulse	0.25	3
B			1	67.939	ug/l	0.81	73,931.19	2.799E-02	Pulse	0.15	3
Ca			1	56994.658	ug/l	0.88	9,957,858.81	3.948E+00	Analog	0.10	3
Sr			1	237.800	ug/l	0.73	1,902,732.32	6.095E-01	Analog	0.10	3
Mo			1	5.129	ug/l	2.74	8,132.38	2.604E-03	Pulse	0.10	3
Ag			1	5.954	ug/l	1.86	22,640.11	7.097E-03	Pulse	0.10	3
Sn			1	38.923	ug/l	0.85	99,376.65	3.115E-02	Pulse	0.10	3
Sb			1	5.148	ug/l	2.39	16,809.51	3.690E-03	Pulse	0.10	3
Ba			1	2883.805	ug/l	0.02	3,581,006.92	7.861E-01	Analog	0.10	3
Tl			1	1.081	ug/l	0.89	8,205.92	2.913E-03	Pulse	0.10	3
Pb			1	1877.392	ug/l	0.48	4,896,045.76	1.738E+00	Analog	0.10	3
Pb			1	1779.365	ug/l	0.52	4,063,670.04	1.443E+00	Analog	0.10	3
Pb			1	1823.387	ug/l	0.22	18,892,722.95	6.706E+00	Analog	0.10	3
Na			2	1064.285	ug/l	2.91	194,349.45	1.907E+00	Pulse	0.30	3
Mg			2	41609.778	ug/l	1.84	3,593,737.78	3.527E+01	Analog	0.30	3
Al			2	75583.892	ug/l	0.46	2,272,353.87	2.230E+01	Analog	0.30	3
K			2	15433.488	ug/l	1.09	961,560.79	9.436E+00	Pulse	0.30	3
Ca			2	58257.499	ug/l	0.76	189,637.98	1.861E+00	Pulse	0.30	3
Ti			2	2129.035	ug/l	2.30	49,112.28	4.820E-01	Pulse	0.30	3
V			2	224.148	ug/l	0.84	174,074.92	1.708E+00	Pulse	0.30	3
Cr			2	152.994	ug/l	0.22	150,663.52	1.478E+00	Pulse	0.30	3
Mn			2	2696.169	ug/l	1.09	1,411,628.73	1.385E+01	Analog	0.30	3
Fe			2	109940.519	ug/l	1.31	90,088,063.09	8.841E+02	Analog	0.30	3
Co			2	44.092	ug/l	0.77	71,891.40	7.055E-01	Pulse	0.30	3
Ni			2	94.501	ug/l	0.24	41,567.96	4.079E-01	Pulse	0.30	3
Cu			2	369.971	ug/l	0.24	436,713.37	4.285E+00	Pulse	0.30	3
Zn			2	2519.663	ug/l	0.49	470,910.28	4.621E+00	Pulse	0.30	3
As			2	66.231	ug/l	1.12	6,744.74	6.619E-02	Pulse	1.00	3
Cd			2	7.682	ug/l	4.69	2,163.05	3.397E-03	Pulse	0.30	3
Sn			2	42.145	ug/l	2.15	24,943.23	3.917E-02	Pulse	0.30	3
Se			3	4.778	ug/l	5.40	78.53	8.678E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,640,919.41	0.53	88.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,522,306.58	1.35	94.7	Analog	0.10	3
1	Ge		505,660.75	1.43	93.9	Pulse	0.10	3
1	Ge		685,849.76	1.28	92.8	Pulse	0.10	3
1	Rh		3,121,969.22	1.79	89.2	Analog	0.10	3
1	In		3,190,321.20	0.77	90.1	Analog	0.10	3
1	Tb		4,555,410.14	0.80	95.6	Analog	0.10	3
1	Ho		4,551,914.41	0.10	97.4	Analog	0.10	3
1	Bi		2,817,133.81	0.42	95.1	Analog	0.10	3
2	Sc		101,906.53	0.85	94.7	Pulse	0.30	3
2	Ge		64,938.54	2.02	94.3	Pulse	0.30	3
2	Ge		96,179.17	0.94	92.5	Pulse	0.30	3
2	Rh		1,572,444.35	1.10	89.8	Analog	0.30	3
2	In		636,811.67	0.84	92.1	Pulse	0.30	3
2	Tb		2,253,363.73	0.91	95.8	Analog	0.30	3
2	Ho		2,283,858.52	0.84	96.1	Analog	0.30	3
2	Bi		1,562,325.25	0.25	95.8	Analog	0.30	3
3	Sc		92,927.10	0.56	97.7	Pulse	0.30	3
3	Ge		60,793.91	1.36	95.7	Pulse	0.30	3
3	Ge		90,530.47	1.34	93.9	Pulse	0.30	3
3	Rh		968,664.30	0.61	93.6	Pulse	0.30	3
3	Tb		1,713,847.82	0.67	97.6	Analog	0.30	3

Quantitation Report

File Name	055SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:30
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	50X
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	182.792	ug/l	1.19	302,135.33	1.099E-01	Pulse	0.25	3
B			1	204.943	ug/l	1.58	222,774.51	8.104E-02	Pulse	0.15	3
Ca			1	35208.422	ug/l	1.32	6,581,631.15	2.441E+00	Analog	0.10	3
Sr			1	368.501	ug/l	0.01	3,015,843.60	9.444E-01	Analog	0.10	3
Mo			1	179.124	ug/l	1.67	288,278.24	9.027E-02	Pulse	0.10	3
Ag			1	93.427	ug/l	1.59	362,136.29	1.113E-01	Pulse	0.10	3
Sn			1	192.785	ug/l	0.75	496,060.71	1.524E-01	Pulse	0.10	3
Sb			1	68.771	ug/l	1.48	224,840.19	4.841E-02	Pulse	0.10	3
Ba			1	820.783	ug/l	1.41	1,039,492.35	2.238E-01	Pulse	0.10	3
Tl			1	187.295	ug/l	0.31	1,376,028.68	4.948E-01	Analog	0.10	3
Pb			1	2342.675	ug/l	0.76	6,030,225.74	2.168E+00	Analog	0.10	3
Pb			1	2232.641	ug/l	0.60	5,032,913.78	1.810E+00	Analog	0.10	3
Pb			1	2288.506	ug/l	0.14	23,405,211.42	8.416E+00	Analog	0.10	3
Na			2	9278.172	ug/l	0.17	1,741,000.59	1.634E+01	Analog	0.30	3
Mg			2	44096.075	ug/l	1.38	3,982,263.04	3.738E+01	Analog	0.30	3
Al			2	123212.170	ug/l	1.04	3,872,679.71	3.635E+01	Analog	0.30	3
K			2	26213.683	ug/l	1.18	1,698,422.57	1.594E+01	Analog	0.30	3
Ca			2	36727.698	ug/l	0.98	125,027.00	1.173E+00	Pulse	0.30	3
Ti			2	3857.862	ug/l	1.13	93,035.73	8.732E-01	Pulse	0.30	3
V			2	461.846	ug/l	0.18	374,620.44	3.516E+00	Pulse	0.30	3
Cr			2	363.841	ug/l	0.39	374,253.07	3.512E+00	Pulse	0.30	3
Mn			2	4170.597	ug/l	0.29	2,283,127.62	2.143E+01	Analog	0.30	3
Fe			2	174332.426	ug/l	0.96	149,354,594.07	1.402E+03	Analog	0.30	3
Co			2	236.751	ug/l	0.71	403,403.65	3.786E+00	Pulse	0.30	3
Ni			2	303.315	ug/l	0.76	137,352.77	1.289E+00	Pulse	0.30	3
Cu			2	447.960	ug/l	0.10	552,605.95	5.186E+00	Pulse	0.30	3
Zn			2	2810.696	ug/l	0.23	548,415.01	5.147E+00	Pulse	0.30	3
As			2	214.906	ug/l	0.47	22,837.59	2.143E-01	Pulse	1.00	3
Cd			2	179.025	ug/l	0.20	50,700.93	7.898E-02	Pulse	0.30	3
Sn			2	200.407	ug/l	0.02	119,434.29	1.860E-01	Pulse	0.30	3
Se			3	440.835	ug/l	0.41	6,978.15	7.629E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,749,095.87	0.58	92.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,696,944.02	1.81	101.3	Analog	0.10	3
1	Ge		531,404.80	0.97	98.7	Pulse	0.10	3
1	Ge		710,709.49	1.42	96.1	Pulse	0.10	3
1	Rh		3,193,487.35	0.25	91.3	Analog	0.10	3
1	In		3,254,475.23	0.40	91.9	Analog	0.10	3
1	Tb		4,645,040.66	0.30	97.5	Analog	0.10	3
1	Ho		4,601,439.73	0.52	98.5	Analog	0.10	3
1	Bi		2,780,927.04	0.62	93.8	Analog	0.10	3
2	Sc		106,549.67	0.26	99.0	Pulse	0.30	3
2	Ge		66,529.19	0.72	96.6	Pulse	0.30	3
2	Ge		97,630.93	0.70	93.9	Pulse	0.30	3
2	Rh		1,580,295.39	0.24	90.2	Analog	0.30	3
2	In		641,960.51	0.18	92.8	Pulse	0.30	3
2	Tb		2,261,901.44	1.09	96.2	Analog	0.30	3
2	Ho		2,292,403.10	0.87	96.5	Analog	0.30	3
2	Bi		1,516,916.92	0.55	93.0	Analog	0.30	3
3	Sc		95,122.31	0.64	100.0	Pulse	0.30	3
3	Ge		61,521.15	0.93	96.8	Pulse	0.30	3
3	Ge		91,468.77	0.75	94.9	Pulse	0.30	3
3	Rh		964,665.80	0.33	93.2	Pulse	0.30	3
3	Tb		1,704,940.38	1.23	97.1	Analog	0.30	3

Quantitation Report

File Name	056SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:33
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	50X
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	178.769	ug/l	0.76	294,075.30	1.075E-01	Pulse	0.25	3
B			1	201.287	ug/l	2.16	217,827.64	7.962E-02	Pulse	0.15	3
Ca			1	37155.470	ug/l	0.67	6,983,961.77	2.576E+00	Analog	0.10	3
Sr			1	378.182	ug/l	1.36	3,071,433.08	9.692E-01	Analog	0.10	3
Mo			1	174.640	ug/l	0.74	278,919.10	8.801E-02	Pulse	0.10	3
Ag			1	89.596	ug/l	0.54	346,644.14	1.067E-01	Pulse	0.10	3
Sn			1	201.225	ug/l	0.80	516,740.25	1.591E-01	Pulse	0.10	3
Sb			1	68.926	ug/l	0.61	224,393.75	4.851E-02	Pulse	0.10	3
Ba			1	797.618	ug/l	1.14	1,005,863.58	2.175E-01	Pulse	0.10	3
Tl			1	178.395	ug/l	0.66	1,295,920.00	4.713E-01	Analog	0.10	3
Pb			1	2241.649	ug/l	0.61	5,705,329.50	2.075E+00	Analog	0.10	3
Pb			1	2132.481	ug/l	0.20	4,753,176.49	1.729E+00	Analog	0.10	3
Pb			1	2193.280	ug/l	0.79	22,179,045.40	8.066E+00	Analog	0.10	3
Na			2	9027.441	ug/l	1.20	1,701,076.46	1.590E+01	Analog	0.30	3
Mg			2	43272.387	ug/l	0.17	3,924,099.98	3.668E+01	Analog	0.30	3
Al			2	125248.016	ug/l	0.89	3,953,059.01	3.695E+01	Analog	0.30	3
K			2	24290.042	ug/l	1.48	1,581,269.28	1.478E+01	Analog	0.30	3
Ca			2	39787.248	ug/l	0.41	135,994.13	1.271E+00	Pulse	0.30	3
Ti			2	3772.258	ug/l	0.31	91,348.20	8.538E-01	Pulse	0.30	3
V			2	457.811	ug/l	0.23	372,880.10	3.485E+00	Pulse	0.30	3
Cr			2	366.011	ug/l	0.17	378,036.46	3.533E+00	Pulse	0.30	3
Mn			2	3510.640	ug/l	0.69	1,929,766.66	1.804E+01	Analog	0.30	3
Fe			2	179198.577	ug/l	0.51	154,160,704.99	1.441E+03	Analog	0.30	3
Co			2	233.380	ug/l	0.45	399,303.60	3.732E+00	Pulse	0.30	3
Ni			2	303.503	ug/l	0.85	138,000.65	1.290E+00	Pulse	0.30	3
Cu			2	436.788	ug/l	1.01	541,062.76	5.057E+00	Pulse	0.30	3
Zn			2	2975.608	ug/l	1.12	582,551.30	5.445E+00	Pulse	0.30	3
As			2	216.202	ug/l	0.50	23,069.90	2.156E-01	Pulse	1.00	3
Cd			2	182.939	ug/l	1.11	52,431.04	8.070E-02	Pulse	0.30	3
Sn			2	208.322	ug/l	0.40	125,637.99	1.934E-01	Pulse	0.30	3
Se			3	437.685	ug/l	0.72	6,926.13	7.575E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,735,866.32	0.61	91.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,711,651.31	0.66	101.8	Analog	0.10	3
1	Ge		535,913.07	0.83	99.5	Pulse	0.10	3
1	Ge		716,455.33	1.04	96.9	Pulse	0.10	3
1	Rh		3,169,133.49	0.09	90.6	Analog	0.10	3
1	In		3,248,389.47	0.59	91.8	Analog	0.10	3
1	Tb		4,625,302.53	0.35	97.1	Analog	0.10	3
1	Ho		4,544,346.81	1.00	97.3	Analog	0.10	3
1	Bi		2,749,654.96	1.00	92.8	Analog	0.10	3
2	Sc		106,989.14	0.41	99.4	Pulse	0.30	3
2	Ge		68,373.38	0.61	99.3	Pulse	0.30	3
2	Ge		99,502.05	0.69	95.7	Pulse	0.30	3
2	Rh		1,602,215.04	0.21	91.5	Analog	0.30	3
2	In		649,660.34	0.36	93.9	Pulse	0.30	3
2	Tb		2,256,707.13	1.14	96.0	Analog	0.30	3
2	Ho		2,295,448.10	0.08	96.6	Analog	0.30	3
2	Bi		1,521,468.76	0.37	93.3	Analog	0.30	3
3	Sc		96,066.69	0.07	101.0	Pulse	0.30	3
3	Ge		61,159.56	2.12	96.2	Pulse	0.30	3
3	Ge		91,438.93	0.36	94.9	Pulse	0.30	3
3	Rh		968,252.05	0.54	93.6	Pulse	0.30	3
3	Tb		1,706,795.14	0.37	97.2	Analog	0.30	3

Quantitation Report

File Name	057SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:37
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	50X
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	6.147	ug/l	1.95	10,523.37	3.821E-03	Pulse	0.25	3
B			1	40.386	ug/l	1.79	47,718.43	1.733E-02	Pulse	0.15	3
Ca			1	30482.694	ug/l	1.18	5,768,806.37	2.114E+00	Analog	0.10	3
Sr			1	200.814	ug/l	0.81	1,666,303.26	5.147E-01	Analog	0.10	3
Mo			1	6.657	ug/l	5.44	10,927.41	3.374E-03	Pulse	0.10	3
Ag			1	0.667	ug/l	6.17	2,673.67	8.000E-04	Pulse	0.10	3
Sn			1	31.917	ug/l	1.53	85,606.30	2.563E-02	Pulse	0.10	3
Sb			1	3.631	ug/l	0.16	12,185.21	2.624E-03	Pulse	0.10	3
Ba			1	605.487	ug/l	0.32	766,771.89	1.651E-01	Pulse	0.10	3
Tl			1	2.084	ug/l	1.73	15,455.23	5.564E-03	Pulse	0.10	3
Pb			1	2064.708	ug/l	1.74	5,309,060.34	1.911E+00	Analog	0.10	3
Pb			1	1967.496	ug/l	0.13	4,430,445.14	1.595E+00	Analog	0.10	3
Pb			1	2015.459	ug/l	0.78	20,590,306.57	7.413E+00	Analog	0.10	3
Na			2	904.988	ug/l	1.37	172,021.45	1.627E+00	Pulse	0.30	3
Mg			2	35106.052	ug/l	0.88	3,145,954.25	2.976E+01	Analog	0.30	3
Al			2	106753.847	ug/l	0.55	3,329,544.17	3.149E+01	Analog	0.30	3
K			2	16182.900	ug/l	0.77	1,045,378.15	9.888E+00	Pulse	0.30	3
Ca			2	32292.522	ug/l	0.64	109,086.97	1.032E+00	Pulse	0.30	3
Ti			2	3490.867	ug/l	0.98	83,536.03	7.901E-01	Pulse	0.30	3
V			2	275.693	ug/l	1.17	222,043.35	2.100E+00	Pulse	0.30	3
Cr			2	198.070	ug/l	1.26	202,274.82	1.913E+00	Pulse	0.30	3
Mn			2	3326.669	ug/l	0.92	1,806,998.19	1.709E+01	Analog	0.30	3
Fe			2	168875.690	ug/l	0.98	143,558,203.19	1.358E+03	Analog	0.30	3
Co			2	69.255	ug/l	0.51	117,122.60	1.108E+00	Pulse	0.30	3
Ni			2	138.736	ug/l	0.24	62,861.56	5.946E-01	Pulse	0.30	3
Cu			2	276.679	ug/l	0.67	339,148.15	3.208E+00	Pulse	0.30	3
Zn			2	2730.788	ug/l	0.66	528,899.53	5.003E+00	Pulse	0.30	3
As			2	50.811	ug/l	1.77	5,372.90	5.082E-02	Pulse	1.00	3
Cd			2	5.865	ug/l	1.29	1,707.23	2.596E-03	Pulse	0.30	3
Sn			2	35.089	ug/l	1.22	21,456.94	3.262E-02	Pulse	0.30	3
Se			3	7.092	ug/l	4.47	117.93	1.268E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,754,156.25	0.91	92.4	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,729,022.14	0.33	102.5	Analog	0.10	3
1	Ge		539,136.20	0.79	100.1	Pulse	0.10	3
1	Ge		720,023.30	0.71	97.4	Pulse	0.10	3
1	Rh		3,237,569.12	1.24	92.5	Analog	0.10	3
1	In		3,340,702.42	1.35	94.4	Analog	0.10	3
1	Tb		4,644,041.70	0.81	97.5	Analog	0.10	3
1	Ho		4,605,189.20	0.70	98.6	Analog	0.10	3
1	Bi		2,777,785.58	0.24	93.7	Analog	0.10	3
2	Sc		105,726.77	0.92	98.3	Pulse	0.30	3
2	Ge		68,367.76	0.69	99.3	Pulse	0.30	3
2	Ge		99,874.41	2.01	96.0	Pulse	0.30	3
2	Rh		1,611,766.15	1.77	92.0	Analog	0.30	3
2	In		657,717.87	0.77	95.1	Pulse	0.30	3
2	Tb		2,298,621.30	0.93	97.8	Analog	0.30	3
2	Ho		2,317,499.70	0.73	97.5	Analog	0.30	3
2	Bi		1,546,165.88	1.39	94.8	Analog	0.30	3
3	Sc		96,266.84	0.96	101.2	Pulse	0.30	3
3	Ge		62,522.47	0.37	98.4	Pulse	0.30	3
3	Ge		93,003.21	0.39	96.5	Pulse	0.30	3
3	Rh		979,845.55	0.50	94.7	Pulse	0.30	3
3	Tb		1,722,665.31	0.41	98.1	Analog	0.30	3

Quantitation Report

File Name	058SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:40
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	250X
Prep Dilution	25.000
Auto Dilution	N/A
Total Dilution	25.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.954	ug/l	10.00	2,085.49	7.248E-04	Pulse	0.25	3
B			1	31.887	ug/l	5.88	11,973.37	4.160E-03	Pulse	0.15	3
Ca			1	28891.014	ug/l	1.48	1,073,183.06	4.046E-01	Pulse	0.10	3
Sr			1	174.667	ug/l	1.28	303,330.72	8.968E-02	Pulse	0.10	3
Mo			1	5.816	ug/l	3.07	2,050.21	6.061E-04	Pulse	0.10	3
Ag			1	0.558	ug/l	30.50	476.69	1.390E-04	Pulse	0.10	3
Sn			1	26.600	ug/l	1.94	15,978.73	4.663E-03	Pulse	0.10	3
Sb			1	3.250	ug/l	10.35	2,466.95	5.283E-04	Pulse	0.10	3
Ba			1	550.084	ug/l	1.27	140,336.58	3.006E-02	Pulse	0.10	3
Tl			1	1.684	ug/l	8.14	2,767.04	9.470E-04	Pulse	0.10	3
Pb			1	1800.859	ug/l	1.28	976,435.87	3.340E-01	Pulse	0.10	3
Pb			1	1681.764	ug/l	1.42	798,472.38	2.731E-01	Pulse	0.10	3
Pb			1	1745.601	ug/l	1.08	3,760,407.70	1.286E+00	Analog	0.10	3
Na			2	817.502	ug/l	1.93	33,724.77	3.243E-01	Pulse	0.30	3
Mg			2	33138.096	ug/l	0.77	584,851.02	5.624E+00	Pulse	0.30	3
Al			2	101215.355	ug/l	0.66	621,318.71	5.974E+00	Pulse	0.30	3
K			2	15065.254	ug/l	1.17	201,906.51	1.941E+00	Pulse	0.30	3
Ca			2	30948.129	ug/l	3.24	20,635.15	1.984E-01	Pulse	0.30	3
Ti			2	3442.397	ug/l	1.38	16,222.52	1.560E-01	Pulse	0.30	3
V			2	259.435	ug/l	1.06	41,418.40	3.982E-01	Pulse	0.30	3
Cr			2	189.120	ug/l	1.46	38,213.34	3.674E-01	Pulse	0.30	3
Mn			2	3184.980	ug/l	0.96	340,509.78	3.274E+00	Pulse	0.30	3
Fe			2	164567.510	ug/l	0.96	27,543,486.13	2.648E+02	Analog	0.30	3
Co			2	66.780	ug/l	1.87	22,255.33	2.140E-01	Pulse	0.30	3
Ni			2	135.214	ug/l	2.59	12,815.11	1.232E-01	Pulse	0.30	3
Cu			2	270.985	ug/l	0.50	66,341.04	6.379E-01	Pulse	0.30	3
Zn			2	2758.420	ug/l	1.02	110,692.26	1.064E+00	Pulse	0.30	3
As			2	50.542	ug/l	1.15	1,067.71	1.027E-02	Pulse	1.00	3
Cd			2	5.380	ug/l	13.23	333.23	4.832E-04	Pulse	0.30	3
Sn			2	31.594	ug/l	6.84	4,087.27	5.925E-03	Pulse	0.30	3
Se			3	6.137	ug/l	10.26	23.93	2.536E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,878,278.02	1.22	96.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,652,425.27	0.68	99.6	Analog	0.10	3
1	Ge		539,671.40	0.54	100.2	Pulse	0.10	3
1	Ge		741,081.55	0.92	100.2	Pulse	0.10	3
1	Rh		3,382,516.51	0.57	96.7	Analog	0.10	3
1	In		3,426,792.91	0.40	96.8	Analog	0.10	3
1	Tb		4,668,757.95	0.93	98.0	Analog	0.10	3
1	Ho		4,648,445.45	0.93	99.5	Analog	0.10	3
1	Bi		2,923,112.56	0.90	98.6	Analog	0.10	3
2	Sc		104,003.78	0.80	96.7	Pulse	0.30	3
2	Ge		69,717.02	1.47	101.2	Pulse	0.30	3
2	Ge		105,069.73	1.12	101.0	Pulse	0.30	3
2	Rh		1,692,297.40	1.12	96.6	Analog	0.30	3
2	In		690,088.91	0.79	99.8	Pulse	0.30	3
2	Tb		2,331,638.93	1.41	99.2	Analog	0.30	3
2	Ho		2,359,245.88	0.66	99.3	Analog	0.30	3
2	Bi		1,623,880.91	1.93	99.6	Analog	0.30	3
3	Sc		91,973.97	0.85	96.7	Pulse	0.30	3
3	Ge		63,070.15	1.04	99.2	Pulse	0.30	3
3	Ge		94,425.34	1.14	98.0	Pulse	0.30	3
3	Rh		1,021,383.47	0.39	98.7	Pulse	0.30	3
3	Tb		1,747,758.40	1.14	99.5	Analog	0.30	3

Quantitation Report

File Name	059SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:44
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.018	ug/l	4.31	2,506.88	8.831E-04	Pulse	0.25	3
B			1	27.607	ug/l	5.98	12,387.04	4.363E-03	Pulse	0.15	3
Ca			1	89097.559	ug/l	1.22	4,095,765.88	1.546E+00	Analog	0.10	3
Sr			1	372.178	ug/l	0.82	803,045.07	2.386E-01	Pulse	0.10	3
Mo			1	4.726	ug/l	6.41	2,070.21	6.153E-04	Pulse	0.10	3
Ag			1	0.900	ug/l	12.92	933.40	2.741E-04	Pulse	0.10	3
Sn			1	79.209	ug/l	0.07	54,749.56	1.608E-02	Pulse	0.10	3
Sb			1	80.231	ug/l	1.05	65,735.11	1.417E-02	Pulse	0.10	3
Ba			1	1123.652	ug/l	0.39	355,558.51	7.664E-02	Pulse	0.10	3
Tl			1	0.923	ug/l	6.87	1,936.87	6.670E-04	Pulse	0.10	3
Pb			1	1242.236	ug/l	0.36	836,537.59	2.881E-01	Pulse	0.10	3
Pb			1	1172.767	ug/l	0.63	691,492.98	2.382E-01	Pulse	0.10	3
Pb			1	1214.047	ug/l	0.43	3,248,064.66	1.119E+00	Analog	0.10	3
Na			2	682.276	ug/l	0.57	35,831.27	3.367E-01	Pulse	0.30	3
Mg			2	38307.727	ug/l	1.14	864,371.18	8.123E+00	Pulse	0.30	3
Al			2	83070.593	ug/l	1.01	652,191.40	6.129E+00	Pulse	0.30	3
K			2	8339.385	ug/l	1.46	146,995.01	1.381E+00	Pulse	0.30	3
Ca			2	93438.879	ug/l	1.78	79,450.02	7.466E-01	Pulse	0.30	3
Ti			2	3550.538	ug/l	1.05	21,397.24	2.010E-01	Pulse	0.30	3
V			2	181.158	ug/l	0.29	37,042.51	3.481E-01	Pulse	0.30	3
Cr			2	159.690	ug/l	0.88	41,254.70	3.877E-01	Pulse	0.30	3
Mn			2	3440.818	ug/l	0.80	470,453.12	4.421E+00	Pulse	0.30	3
Fe			2	158967.407	ug/l	1.12	34,024,133.09	3.197E+02	Analog	0.30	3
Co			2	73.438	ug/l	1.22	31,284.77	2.940E-01	Pulse	0.30	3
Ni			2	187.927	ug/l	2.53	22,066.07	2.074E-01	Pulse	0.30	3
Cu			2	378.599	ug/l	0.36	117,608.99	1.105E+00	Pulse	0.30	3
Zn			2	1930.108	ug/l	0.41	99,964.34	9.394E-01	Pulse	0.30	3
As			2	72.267	ug/l	0.79	1,936.46	1.820E-02	Pulse	1.00	3
Cd			2	4.909	ug/l	13.79	382.10	5.499E-04	Pulse	0.30	3
Sn			2	84.680	ug/l	1.22	13,681.61	1.971E-02	Pulse	0.30	3
Se			3	7.588	ug/l	4.80	35.53	3.694E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,839,183.86	0.76	95.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,649,612.72	1.00	99.5	Analog	0.10	3
1	Ge		540,002.35	1.05	100.3	Pulse	0.10	3
1	Ge		736,186.03	0.95	99.6	Pulse	0.10	3
1	Rh		3,365,810.68	0.99	96.2	Analog	0.10	3
1	In		3,405,209.18	0.10	96.2	Analog	0.10	3
1	Tb		4,639,344.72	0.44	97.4	Analog	0.10	3
1	Ho		4,644,972.95	0.51	99.4	Analog	0.10	3
1	Bi		2,903,442.35	0.50	98.0	Analog	0.10	3
2	Sc		106,420.07	1.08	98.9	Pulse	0.30	3
2	Ge		70,033.79	1.20	101.7	Pulse	0.30	3
2	Ge		105,573.11	1.46	101.5	Pulse	0.30	3
2	Rh		1,697,676.42	0.99	96.9	Analog	0.30	3
2	In		694,259.32	1.50	100.4	Pulse	0.30	3
2	Tb		2,344,478.24	0.84	99.7	Analog	0.30	3
2	Ho		2,360,483.45	1.07	99.4	Analog	0.30	3
2	Bi		1,626,761.85	1.26	99.7	Analog	0.30	3
3	Sc		93,437.34	1.13	98.3	Pulse	0.30	3
3	Ge		63,420.28	0.14	99.8	Pulse	0.30	3
3	Ge		96,181.40	0.22	99.8	Pulse	0.30	3
3	Rh		1,026,671.14	0.52	99.2	Pulse	0.30	3
3	Tb		1,747,128.19	0.66	99.5	Analog	0.30	3

Quantitation Report

File Name	060_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:47
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	52.410	ug/l	0.30	450,608.90	1.575E-01	Pulse	0.25	3
B			1	100.383	ug/l	1.17	560,840.79	1.960E-01	Pulse	0.15	3
Ca			1	5270.430	ug/l	1.79	4,810,779.10	1.828E+00	Analog	0.10	3
Sr			1	52.625	ug/l	1.50	2,241,445.75	6.744E-01	Analog	0.10	3
Mo			1	52.552	ug/l	1.88	440,100.74	1.324E-01	Pulse	0.10	3
Ag			1	54.460	ug/l	0.71	1,093,844.10	3.243E-01	Pulse	0.10	3
Sn			1	50.732	ug/l	0.92	675,960.69	2.004E-01	Pulse	0.10	3
Sb			1	52.632	ug/l	1.84	859,293.45	1.850E-01	Pulse	0.10	3
Ba			1	51.516	ug/l	0.87	326,389.88	7.028E-02	Pulse	0.10	3
Tl			1	54.381	ug/l	0.44	1,989,798.30	7.183E-01	Analog	0.10	3
Pb			1	53.042	ug/l	0.85	681,890.07	2.462E-01	Pulse	0.10	3
Pb			1	51.624	ug/l	0.96	581,023.27	2.097E-01	Pulse	0.10	3
Pb			1	53.064	ug/l	0.55	2,710,007.95	9.783E-01	Analog	0.10	3
Na			2	5295.566	ug/l	0.94	4,903,701.19	4.656E+01	Analog	0.30	3
Mg			2	5376.824	ug/l	0.28	2,400,143.03	2.279E+01	Analog	0.30	3
Al			2	5219.109	ug/l	0.96	810,968.25	7.700E+00	Pulse	0.30	3
K			2	5372.853	ug/l	1.16	1,720,093.82	1.633E+01	Analog	0.30	3
Ca			2	5540.745	ug/l	0.79	93,239.61	8.853E-01	Pulse	0.30	3
Ti			2	53.596	ug/l	2.69	6,405.76	6.083E-02	Pulse	0.30	3
V			2	53.384	ug/l	1.31	214,158.01	2.034E+00	Pulse	0.30	3
Cr			2	52.531	ug/l	1.11	267,115.14	2.536E+00	Pulse	0.30	3
Mn			2	52.249	ug/l	1.59	141,516.11	1.344E+00	Pulse	0.30	3
Fe			2	5422.638	ug/l	1.18	22,980,861.87	2.182E+02	Analog	0.30	3
Co			2	52.024	ug/l	0.55	438,092.44	4.160E+00	Pulse	0.30	3
Ni			2	52.061	ug/l	0.39	116,647.87	1.108E+00	Pulse	0.30	3
Cu			2	51.519	ug/l	1.27	314,613.84	2.987E+00	Pulse	0.30	3
Zn			2	50.804	ug/l	2.15	55,434.43	5.264E-01	Pulse	0.30	3
As			2	53.587	ug/l	0.37	28,138.82	2.672E-01	Pulse	1.00	3
Cd			2	51.722	ug/l	0.46	77,233.29	1.141E-01	Pulse	0.30	3
Sn			2	52.525	ug/l	0.95	165,039.31	2.438E-01	Pulse	0.30	3
Se			3	210.980	ug/l	0.34	17,176.78	1.825E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,860,897.35	1.33	96.0	Analog	0.10	3
1	Sc		2,631,990.64	1.12	98.9	Analog	0.10	3
1	Ge		538,566.50	0.97	100.0	Pulse	0.10	3

Quantitation Report

1	Ge		745,153.74	0.61	100.8	Pulse	0.10	3
1	Rh		3,323,983.28	0.80	95.0	Analog	0.10	3
1	In		3,372,838.74	0.47	95.3	Analog	0.10	3
1	Tb		4,644,188.37	0.49	97.5	Analog	0.10	3
1	Ho		4,556,408.47	0.74	97.5	Analog	0.10	3
1	Bi		2,770,077.56	0.69	93.5	Analog	0.10	3
2	Sc		105,317.45	0.49	97.9	Pulse	0.30	3
2	Ge		68,914.59	0.39	100.1	Pulse	0.30	3
2	Ge		103,645.35	1.59	99.7	Pulse	0.30	3
2	Rh		1,650,207.89	1.62	94.2	Analog	0.30	3
2	In		676,998.88	0.48	97.9	Pulse	0.30	3
2	Tb		2,312,051.78	0.43	98.3	Analog	0.30	3
2	Ho		2,318,069.56	1.19	97.6	Analog	0.30	3
2	Bi		1,558,309.76	1.10	95.5	Analog	0.30	3
3	Sc		92,357.17	0.77	97.1	Pulse	0.30	3
3	Ge		61,754.17	1.14	97.2	Pulse	0.30	3
3	Ge		94,119.52	0.88	97.7	Pulse	0.30	3
3	Rh		990,618.61	0.36	95.8	Pulse	0.30	3
3	Tb		1,717,804.51	0.92	97.8	Analog	0.30	3

Quantitation Report

File Name	061BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:51
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.114	ug/l	4.50	296.01	1.549E-02	Pulse	0.25	3
B			1	367.270	ug/l	10.53	13,583.58	7.127E-01	Pulse	0.15	3
Ca			1	1862.526	ug/l	2.84	8,119.03	6.491E-01	Pulse	0.10	3
Sr			1	41.797	ug/l	25.21	376.69	5.357E-01	Pulse	0.10	3
Mo			1	56.747	ug/l	19.50	103.34	1.430E-01	Pulse	0.10	3
Ag			1	6.649	ug/l	38.04	80.00	3.960E-02	Pulse	0.10	3
Sn			1	170.858	ug/l	8.33	1,380.11	6.738E-01	Pulse	0.10	3
Sb			1	97.699	ug/l	30.78	286.68	3.434E-01	Pulse	0.10	3
Ba			1	106.269	ug/l	38.86	123.34	1.449E-01	Pulse	0.10	3
Tl			1	20.535	ug/l	9.48	1,030.08	2.713E-01	Pulse	0.10	3
Pb			1	36.944	ug/l	12.55	650.04	1.717E-01	Pulse	0.10	3
Pb			1	38.006	ug/l	6.57	586.70	1.546E-01	Pulse	0.10	3
Pb			1	39.788	ug/l	6.41	2,783.56	7.343E-01	Pulse	0.10	3
Na			2	4036.185	ug/l	122.87	10,435.26	3.550E+01	Pulse	0.30	3
Mg			2	500.728	ug/l	11.57	643.35	2.129E+00	Pulse	0.30	3
Al			2	524.044	ug/l	12.88	235.56	7.760E-01	Pulse	0.30	3
K			2	14123.440	ug/l	2.62	12,949.57	4.273E+01	Pulse	0.30	3
Ca			2	843.607	ug/l	22.92	41.11	1.355E-01	Pulse	0.30	3
Ti			2	9.296	ug/l	98.27	3.33	1.070E-02	Pulse	0.30	3
V			2	31.075	ug/l	3.79	360.01	1.185E+00	Pulse	0.30	3
Cr			2	12.173	ug/l	5.03	178.54	5.897E-01	Pulse	0.30	3
Mn			2	52.246	ug/l	15.24	405.57	1.344E+00	Pulse	0.30	3
Fe			2	1444.042	ug/l	7.27	17,634.02	5.829E+01	Pulse	0.30	3
Co			2	2.658	ug/l	8.00	64.39	2.129E-01	Pulse	0.30	3
Ni			2	22.365	ug/l	18.41	146.67	4.810E-01	Pulse	0.30	3
Cu			2	27.633	ug/l	7.04	487.79	1.608E+00	Pulse	0.30	3
Zn			2	81.306	ug/l	4.56	243.34	8.020E-01	Pulse	0.30	3
As			2	9.589	ug/l	39.71	14.33	4.797E-02	Pulse	1.00	3
Cd			2	12.526	ug/l	1.26	9.99	2.763E-02	Pulse	0.30	3
Sn			2	176.076	ug/l	7.54	295.56	8.171E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	13.295	ug/l	34.51	3.27	1.154E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		19,123.13	4.80	0.6	Pulse	0.10	3
1	Sc		12,518.51	7.06	0.5	Pulse	0.10	3
1	Ge		3,520.53	4.98	0.7	Pulse	0.10	3
1	Ge		2,380.29	7.60	0.3	Pulse	0.10	3
1	Rh		713.38	11.92	0.0	Pulse	0.10	3
1	In		2,055.86	6.84	0.1	Pulse	0.10	3
1	Tb		863.39	21.53	0.0	Pulse	0.10	3
1	Ho		853.39	1.79	0.0	Pulse	0.10	3
1	Bi		3,793.98	2.38	0.1	Pulse	0.10	3
2	Sc		303.34	5.81	0.3	Pulse	0.30	3
2	Ge		287.78	12.17	0.4	Pulse	0.30	3
2	Ge		298.90	20.72	0.3	Pulse	0.30	3
2	Rh		314.45	16.91	0.0	Pulse	0.30	3
2	In		361.54	1.26	0.1	Pulse	0.30	3
2	Tb		392.23	16.71	0.0	Pulse	0.30	3
2	Ho		431.13	22.63	0.0	Pulse	0.30	3
2	Bi		5,276.57	114.77	0.3	Pulse	0.30	3
3	Sc		202.23	9.52	0.2	Pulse	0.30	3
3	Ge		214.45	26.76	0.3	Pulse	0.30	3
3	Ge		283.34	7.71	0.3	Pulse	0.30	3
3	Rh		161.11	9.33	0.0	Pulse	0.30	3
3	Tb		255.56	9.25	0.0	Pulse	0.30	3

Quantitation Report

File Name	062SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:54
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.433	ug/l	8.34	4,268.61	1.461E-03	Pulse	0.25	3
B			1	23.857	ug/l	2.61	18,437.13	6.309E-03	Pulse	0.15	3
Ca			1	4784.020	ug/l	1.15	474,791.78	1.703E-01	Pulse	0.10	3
Sr			1	61.664	ug/l	0.41	268,581.65	7.917E-02	Pulse	0.10	3
Mo			1	4.875	ug/l	3.36	4,234.04	1.248E-03	Pulse	0.10	3
Ag			1	0.380	ug/l	20.69	800.06	2.322E-04	Pulse	0.10	3
Sn			1	20.569	ug/l	1.98	29,578.57	8.576E-03	Pulse	0.10	3
Sb			1	1.194	ug/l	11.51	2,326.94	4.912E-04	Pulse	0.10	3
Ba			1	539.738	ug/l	1.73	348,676.98	7.363E-02	Pulse	0.10	3
Tl			1	1.405	ug/l	6.16	5,571.25	1.913E-03	Pulse	0.10	3
Pb			1	183.916	ug/l	0.96	250,064.39	8.584E-02	Pulse	0.10	3
Pb			1	171.380	ug/l	0.42	203,950.13	7.001E-02	Pulse	0.10	3
Pb			1	178.505	ug/l	0.32	964,275.45	3.310E-01	Pulse	0.10	3
Na			2	589.901	ug/l	3.61	59,971.33	5.553E-01	Pulse	0.30	3
Mg			2	11356.369	ug/l	1.43	520,555.95	4.819E+00	Pulse	0.30	3
Al			2	114128.554	ug/l	2.33	1,818,468.61	1.684E+01	Analog	0.30	3
K			2	4905.860	ug/l	5.27	173,186.88	1.603E+00	Pulse	0.30	3
Ca			2	5072.840	ug/l	1.16	8,833.55	8.177E-02	Pulse	0.30	3
Ti			2	1560.161	ug/l	1.38	19,088.97	1.767E-01	Pulse	0.30	3
V			2	262.304	ug/l	0.95	108,138.21	1.001E+00	Pulse	0.30	3
Cr			2	158.028	ug/l	1.04	82,616.29	7.648E-01	Pulse	0.30	3
Mn			2	3706.223	ug/l	1.63	1,028,550.96	9.522E+00	Pulse	0.30	3
Fe			2	139722.825	ug/l	2.05	60,693,130.92	5.619E+02	Analog	0.30	3
Co			2	48.614	ug/l	2.71	42,030.11	3.891E-01	Pulse	0.30	3
Ni			2	94.066	ug/l	1.70	22,424.31	2.076E-01	Pulse	0.30	3
Cu			2	69.720	ug/l	1.35	44,778.64	4.145E-01	Pulse	0.30	3
Zn			2	492.874	ug/l	0.94	55,386.65	5.127E-01	Pulse	0.30	3
As			2	37.575	ug/l	1.08	2,043.47	1.891E-02	Pulse	1.00	3
Cd			2	0.504	ug/l	43.96	80.86	1.197E-04	Pulse	0.30	3
Sn			2	23.787	ug/l	1.92	7,501.87	1.110E-02	Pulse	0.30	3
Se			3	6.823	ug/l	2.01	58.60	6.314E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,922,284.57	0.66	98.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,787,650.79	0.65	104.7	Analog	0.10	3
1	Ge		538,841.78	1.11	100.1	Pulse	0.10	3
1	Ge		738,998.61	0.80	100.0	Pulse	0.10	3
1	Rh		3,392,329.95	1.10	97.0	Analog	0.10	3
1	In		3,449,129.17	0.90	97.4	Analog	0.10	3
1	Tb		4,735,804.41	0.59	99.4	Analog	0.10	3
1	Ho		4,678,333.47	0.80	100.1	Analog	0.10	3
1	Bi		2,913,211.41	0.69	98.3	Analog	0.10	3
2	Sc		108,032.58	1.09	100.4	Pulse	0.30	3
2	Ge		68,952.49	0.85	100.1	Pulse	0.30	3
2	Ge		103,106.25	1.00	99.1	Pulse	0.30	3
2	Rh		1,688,809.17	1.40	96.4	Analog	0.30	3
2	In		675,976.37	0.28	97.8	Pulse	0.30	3
2	Tb		2,336,450.05	1.48	99.4	Analog	0.30	3
2	Ho		2,362,645.05	0.24	99.4	Analog	0.30	3
2	Bi		1,613,333.44	0.99	98.9	Analog	0.30	3
3	Sc		95,591.86	0.18	100.5	Pulse	0.30	3
3	Ge		62,677.60	0.80	98.6	Pulse	0.30	3
3	Ge		92,795.23	1.83	96.3	Pulse	0.30	3
3	Rh		1,000,028.95	0.19	96.7	Pulse	0.30	3
3	Tb		1,726,555.04	0.64	98.3	Analog	0.30	3

Quantitation Report

File Name	063SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 15:58
Sample Name	SAMPLECONF
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.738	ug/l	7.83	3,605.78	1.252E-03	Pulse	0.25	3
B			1	22.685	ug/l	4.65	17,518.31	6.082E-03	Pulse	0.15	3
Ca			1	6253.837	ug/l	1.64	596,913.10	2.212E-01	Pulse	0.10	3
Sr			1	60.997	ug/l	0.07	261,881.49	7.832E-02	Pulse	0.10	3
Mo			1	4.598	ug/l	3.26	3,940.64	1.178E-03	Pulse	0.10	3
Ag			1	0.441	ug/l	13.27	913.40	2.684E-04	Pulse	0.10	3
Sn			1	20.543	ug/l	1.30	29,131.26	8.566E-03	Pulse	0.10	3
Sb			1	1.440	ug/l	9.07	2,670.33	5.775E-04	Pulse	0.10	3
Ba			1	506.889	ug/l	1.51	319,789.58	6.915E-02	Pulse	0.10	3
Tl			1	1.371	ug/l	4.75	5,397.88	1.868E-03	Pulse	0.10	3
Pb			1	248.728	ug/l	0.77	334,634.07	1.158E-01	Pulse	0.10	3
Pb			1	230.913	ug/l	1.38	271,946.72	9.413E-02	Pulse	0.10	3
Pb			1	240.890	ug/l	0.64	1,287,628.65	4.457E-01	Pulse	0.10	3
Na			2	412.345	ug/l	1.50	42,054.64	3.993E-01	Pulse	0.30	3
Mg			2	8937.251	ug/l	0.63	399,607.06	3.794E+00	Pulse	0.30	3
Al			2	97172.742	ug/l	1.27	1,509,786.26	1.433E+01	Analog	0.30	3
K			2	4778.460	ug/l	0.23	164,841.88	1.565E+00	Pulse	0.30	3
Ca			2	6582.490	ug/l	2.09	11,151.63	1.059E-01	Pulse	0.30	3
Ti			2	1076.059	ug/l	1.91	12,842.89	1.219E-01	Pulse	0.30	3
V			2	217.846	ug/l	1.48	87,633.04	8.320E-01	Pulse	0.30	3
Cr			2	125.261	ug/l	0.64	63,906.61	6.067E-01	Pulse	0.30	3
Mn			2	5654.592	ug/l	1.04	1,530,092.89	1.453E+01	Analog	0.30	3
Fe			2	107993.276	ug/l	0.54	45,748,342.63	4.343E+02	Analog	0.30	3
Co			2	47.286	ug/l	1.66	39,864.97	3.785E-01	Pulse	0.30	3
Ni			2	63.211	ug/l	1.91	15,008.07	1.425E-01	Pulse	0.30	3
Cu			2	63.247	ug/l	1.46	39,721.30	3.771E-01	Pulse	0.30	3
Zn			2	513.328	ug/l	1.34	55,945.08	5.312E-01	Pulse	0.30	3
As			2	35.801	ug/l	0.59	1,899.12	1.803E-02	Pulse	1.00	3
Cd			2	1.313	ug/l	14.80	200.87	2.983E-04	Pulse	0.30	3
Sn			2	23.276	ug/l	2.32	7,316.21	1.086E-02	Pulse	0.30	3
Se			3	6.071	ug/l	5.28	52.67	5.663E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,880,020.93	0.43	96.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,699,442.46	1.77	101.4	Analog	0.10	3
1	Ge		540,224.99	0.44	100.3	Pulse	0.10	3
1	Ge		734,990.04	0.46	99.4	Pulse	0.10	3
1	Rh		3,343,933.39	0.33	95.6	Analog	0.10	3
1	In		3,401,055.83	0.92	96.1	Analog	0.10	3
1	Tb		4,624,548.27	0.31	97.1	Analog	0.10	3
1	Ho		4,578,207.74	0.60	98.0	Analog	0.10	3
1	Bi		2,889,195.06	0.68	97.5	Analog	0.10	3
2	Sc		105,327.67	0.32	97.9	Pulse	0.30	3
2	Ge		68,980.31	0.60	100.2	Pulse	0.30	3
2	Ge		101,449.56	0.56	97.5	Pulse	0.30	3
2	Rh		1,688,606.77	0.48	96.4	Analog	0.30	3
2	In		673,621.26	0.32	97.4	Pulse	0.30	3
2	Tb		2,336,874.14	0.51	99.4	Analog	0.30	3
2	Ho		2,335,753.31	1.00	98.3	Analog	0.30	3
2	Bi		1,632,991.46	0.53	100.1	Analog	0.30	3
3	Sc		91,467.68	1.14	96.2	Pulse	0.30	3
3	Ge		61,714.90	0.56	97.1	Pulse	0.30	3
3	Ge		92,979.61	0.79	96.5	Pulse	0.30	3
3	Rh		985,952.57	0.37	95.3	Pulse	0.30	3
3	Tb		1,688,844.72	1.78	96.1	Analog	0.30	3

Quantitation Report

File Name	064_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 16:02
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	49.713	ug/l	0.26	417,125.32	1.494E-01	Pulse	0.25	3
B			1	94.670	ug/l	0.21	516,363.62	1.850E-01	Pulse	0.15	3
Ca			1	5013.711	ug/l	0.92	4,462,348.06	1.739E+00	Analog	0.10	3
Sr			1	50.343	ug/l	1.06	2,061,454.39	6.451E-01	Analog	0.10	3
Mo			1	49.846	ug/l	1.94	401,330.90	1.256E-01	Pulse	0.10	3
Ag			1	50.705	ug/l	0.33	991,651.52	3.019E-01	Pulse	0.10	3
Sn			1	47.809	ug/l	1.71	620,355.10	1.889E-01	Pulse	0.10	3
Sb			1	48.901	ug/l	0.93	788,201.26	1.719E-01	Pulse	0.10	3
Ba			1	47.808	ug/l	1.59	299,058.06	6.523E-02	Pulse	0.10	3
Tl			1	51.369	ug/l	1.16	1,852,779.97	6.785E-01	Analog	0.10	3
Pb			1	49.560	ug/l	1.88	628,145.63	2.300E-01	Pulse	0.10	3
Pb			1	48.333	ug/l	2.17	536,292.99	1.964E-01	Pulse	0.10	3
Pb			1	49.976	ug/l	1.25	2,516,370.00	9.215E-01	Analog	0.10	3
Na			2	5129.077	ug/l	1.08	4,606,711.07	4.510E+01	Analog	0.30	3
Mg			2	5292.161	ug/l	2.60	2,290,833.73	2.243E+01	Analog	0.30	3
Al			2	5044.951	ug/l	1.82	760,254.36	7.444E+00	Pulse	0.30	3
K			2	5213.760	ug/l	1.89	1,619,144.17	1.585E+01	Analog	0.30	3
Ca			2	5287.066	ug/l	0.64	86,294.03	8.448E-01	Pulse	0.30	3
Ti			2	51.546	ug/l	1.36	5,976.71	5.851E-02	Pulse	0.30	3
V			2	51.637	ug/l	0.77	200,929.97	1.967E+00	Pulse	0.30	3
Cr			2	50.744	ug/l	1.16	250,265.51	2.450E+00	Pulse	0.30	3
Mn			2	50.700	ug/l	1.62	133,188.57	1.304E+00	Pulse	0.30	3
Fe			2	5323.631	ug/l	1.64	21,881,457.46	2.142E+02	Analog	0.30	3
Co			2	50.407	ug/l	0.63	411,692.09	4.030E+00	Pulse	0.30	3
Ni			2	50.186	ug/l	0.64	109,098.11	1.068E+00	Pulse	0.30	3
Cu			2	49.534	ug/l	1.05	293,431.58	2.873E+00	Pulse	0.30	3
Zn			2	48.974	ug/l	0.95	52,078.14	5.098E-01	Pulse	0.30	3
As			2	51.589	ug/l	2.07	26,271.75	2.572E-01	Pulse	1.00	3
Cd			2	49.760	ug/l	0.97	71,928.38	1.098E-01	Pulse	0.30	3
Sn			2	50.867	ug/l	0.31	154,724.44	2.361E-01	Pulse	0.30	3
Se			3	204.892	ug/l	0.32	16,284.41	1.772E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,791,833.80	1.39	93.7	Analog	0.10	3
1	Sc		2,565,811.73	1.00	96.4	Analog	0.10	3
1	Ge		518,785.72	0.71	96.4	Pulse	0.10	3

Quantitation Report

1	Ge		719,787.00	0.95	97.4	Pulse	0.10	3
1	Rh		3,195,450.89	0.40	91.3	Analog	0.10	3
1	In		3,284,186.65	0.22	92.8	Analog	0.10	3
1	Tb		4,584,839.83	0.75	96.2	Analog	0.10	3
1	Ho		4,507,786.39	0.48	96.5	Analog	0.10	3
1	Bi		2,730,693.19	0.42	92.1	Analog	0.10	3
2	Sc		102,151.25	1.31	94.9	Pulse	0.30	3
2	Ge		66,295.19	0.80	96.3	Pulse	0.30	3
2	Ge		100,832.51	0.26	96.9	Pulse	0.30	3
2	Rh		1,614,187.96	1.12	92.2	Analog	0.30	3
2	In		655,364.17	0.53	94.8	Pulse	0.30	3
2	Tb		2,275,156.57	0.34	96.8	Analog	0.30	3
2	Ho		2,314,694.91	1.10	97.4	Analog	0.30	3
2	Bi		1,539,882.23	1.05	94.4	Analog	0.30	3
3	Sc		91,563.87	0.37	96.3	Pulse	0.30	3
3	Ge		60,751.39	1.02	95.6	Pulse	0.30	3
3	Ge		91,878.96	0.58	95.3	Pulse	0.30	3
3	Rh		970,078.09	0.30	93.8	Pulse	0.30	3
3	Tb		1,693,164.83	1.34	96.4	Analog	0.30	3

Quantitation Report

File Name	065BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 16:06
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.005	ug/l	-81.91	329.34	1.140E-04	Pulse	0.25	3
B			1	1.863	ug/l	10.26	15,300.61	5.297E-03	Pulse	0.15	3
Ca			1	-4.389	ug/l	-8.75	8,499.20	3.303E-03	Pulse	0.10	3
Sr			1	0.002	ug/l	180.05	646.71	1.937E-04	Pulse	0.10	3
Mo			1	0.011	ug/l	16.49	160.01	4.792E-05	Pulse	0.10	3
Ag			1	0.004	ug/l	56.58	100.01	2.915E-05	Pulse	0.10	3
Sn			1	0.132	ug/l	24.19	3,387.15	9.905E-04	Pulse	0.10	3
Sb			1	0.018	ug/l	24.63	616.71	1.339E-04	Pulse	0.10	3
Ba			1	-0.030	ug/l	-24.09	140.01	3.039E-05	Pulse	0.10	3
Tl			1	0.028	ug/l	27.17	1,206.76	4.310E-04	Pulse	0.10	3
Pb			1	0.047	ug/l	28.27	2,713.70	9.680E-04	Pulse	0.10	3
Pb			1	0.073	ug/l	26.46	2,423.63	8.641E-04	Pulse	0.10	3
Pb			1	0.053	ug/l	20.69	10,808.60	3.854E-03	Pulse	0.10	3
Na			2	-0.400	ug/l	-69.36	3,387.05	3.348E-02	Pulse	0.30	3
Mg			2	-0.378	ug/l	-8.00	558.91	5.524E-03	Pulse	0.30	3
Al			2	1.541	ug/l	30.14	542.24	5.362E-03	Pulse	0.30	3
K			2	0.867	ug/l	119.98	12,750.55	1.260E-01	Pulse	0.30	3
Ca			2	-2.047	ug/l	-46.94	46.67	4.618E-04	Pulse	0.30	3
Ti			2	0.068	ug/l	125.49	26.67	2.632E-04	Pulse	0.30	3
V			2	-0.010	ug/l	-87.17	332.23	3.284E-03	Pulse	0.30	3
Cr			2	-0.013	ug/l	-53.57	194.76	1.923E-03	Pulse	0.30	3
Mn			2	0.079	ug/l	30.14	372.23	3.681E-03	Pulse	0.30	3
Fe			2	17.497	ug/l	18.76	95,602.67	9.449E-01	Pulse	0.30	3
Co			2	0.001	ug/l	172.90	49.74	4.919E-04	Pulse	0.30	3
Ni			2	-0.003	ug/l	-544.87	914.48	9.038E-03	Pulse	0.30	3
Cu			2	-0.028	ug/l	-35.53	1,033.38	1.021E-02	Pulse	0.30	3
Zn			2	-0.624	ug/l	-17.08	6,239.04	6.165E-02	Pulse	0.30	3
As			2	0.033	ug/l	10.41	36.00	3.556E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.010	ug/l	107.46	19.98	2.983E-05	Pulse	0.30	3
Sn			2	0.400	ug/l	10.62	1,284.51	1.917E-03	Pulse	0.30	3
Se			3	0.229	ug/l	1.87	22.20	2.398E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,889,936.31	1.41	97.0	Analog	0.10	3
1	Sc		2,572,961.21	0.16	96.6	Analog	0.10	3
1	Ge		525,936.18	0.53	97.7	Pulse	0.10	3
1	Ge		724,887.12	0.72	98.0	Pulse	0.10	3
1	Rh		3,336,039.12	1.36	95.3	Analog	0.10	3
1	In		3,417,944.36	1.31	96.6	Analog	0.10	3
1	Tb		4,608,867.22	0.46	96.7	Analog	0.10	3
1	Ho		4,512,810.14	0.40	96.6	Analog	0.10	3
1	Bi		2,803,907.15	0.95	94.6	Analog	0.10	3
2	Sc		101,199.15	0.83	94.1	Pulse	0.30	3
2	Ge		66,882.87	1.27	97.1	Pulse	0.30	3
2	Ge		99,670.98	0.59	95.8	Pulse	0.30	3
2	Rh		1,699,546.18	0.61	97.1	Analog	0.30	3
2	In		670,153.74	0.17	96.9	Pulse	0.30	3
2	Tb		2,305,365.05	0.73	98.1	Analog	0.30	3
2	Ho		2,308,352.55	1.41	97.2	Analog	0.30	3
2	Bi		1,590,310.63	0.82	97.5	Analog	0.30	3
3	Sc		90,016.70	1.12	94.7	Pulse	0.30	3
3	Ge		61,387.05	1.64	96.6	Pulse	0.30	3
3	Ge		92,598.47	0.98	96.1	Pulse	0.30	3
3	Rh		1,008,631.97	0.75	97.5	Pulse	0.30	3
3	Tb		1,713,293.06	1.28	97.5	Analog	0.30	3

Quantitation Report

File Name	066SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 16:09
Sample Name	JD49491-17
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.565	ug/l	0.72	9,820.28	3.472E-03	Pulse	0.25	3
B			1	32.532	ug/l	1.36	40,408.46	1.429E-02	Pulse	0.15	3
Ca			1	8144.570	ug/l	0.76	1,652,638.78	5.683E-01	Analog	0.10	3
Sr			1	63.991	ug/l	1.80	534,490.98	1.641E-01	Pulse	0.10	3
Mo			1	5.275	ug/l	2.67	8,719.39	2.678E-03	Pulse	0.10	3
Ag			1	0.394	ug/l	2.15	1,593.47	4.749E-04	Pulse	0.10	3
Sn			1	22.348	ug/l	1.29	60,687.68	1.808E-02	Pulse	0.10	3
Sb			1	1.788	ug/l	3.44	6,224.76	1.328E-03	Pulse	0.10	3
Ba			1	613.983	ug/l	1.42	784,813.22	1.674E-01	Pulse	0.10	3
Tl			1	1.601	ug/l	4.92	11,988.63	4.288E-03	Pulse	0.10	3
Pb			1	211.649	ug/l	0.74	549,783.60	1.966E-01	Pulse	0.10	3
Pb			1	197.830	ug/l	1.25	449,906.44	1.609E-01	Pulse	0.10	3
Pb			1	205.852	ug/l	1.15	2,124,406.74	7.597E-01	Pulse	0.10	3
Na			2	598.628	ug/l	1.78	120,462.06	1.089E+00	Pulse	0.30	3
Mg			2	10332.687	ug/l	0.94	969,473.75	8.763E+00	Pulse	0.30	3
Al			2	107935.821	ug/l	1.10	3,522,542.22	3.184E+01	Analog	0.30	3
K			2	6433.494	ug/l	0.71	443,105.97	4.005E+00	Pulse	0.30	3
Ca			2	8403.763	ug/l	0.91	29,771.09	2.691E-01	Pulse	0.30	3
Ti			2	1599.451	ug/l	0.88	40,061.53	3.621E-01	Pulse	0.30	3
V			2	348.625	ug/l	0.76	293,708.23	2.655E+00	Pulse	0.30	3
Cr			2	171.577	ug/l	0.54	183,397.21	1.658E+00	Pulse	0.30	3
Mn			2	3492.512	ug/l	0.95	1,985,192.08	1.794E+01	Analog	0.30	3
Fe			2	208353.153	ug/l	0.70	185,338,863.75	1.675E+03	Analog	0.30	3
Co			2	55.516	ug/l	1.18	98,251.44	8.881E-01	Pulse	0.30	3
Ni			2	66.610	ug/l	0.41	32,108.03	2.902E-01	Pulse	0.30	3
Cu			2	86.509	ug/l	0.70	111,866.64	1.011E+00	Pulse	0.30	3
Zn			2	335.804	ug/l	1.31	74,582.92	6.742E-01	Pulse	0.30	3
As			2	58.807	ug/l	1.39	6,503.98	5.879E-02	Pulse	1.00	3
Cd			2	0.845	ug/l	9.71	247.27	3.814E-04	Pulse	0.30	3
Sn			2	24.175	ug/l	2.52	14,587.98	2.250E-02	Pulse	0.30	3
Se			3	7.933	ug/l	4.29	127.27	1.414E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,828,510.82	1.35	94.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,907,819.54	0.76	109.2	Analog	0.10	3
1	Ge		549,694.47	0.28	102.1	Pulse	0.10	3
1	Ge		730,024.39	1.21	98.7	Pulse	0.10	3
1	Rh		3,256,804.01	0.94	93.1	Analog	0.10	3
1	In		3,356,128.51	1.55	94.8	Analog	0.10	3
1	Tb		4,687,949.72	0.77	98.4	Analog	0.10	3
1	Ho		4,615,569.62	0.39	98.8	Analog	0.10	3
1	Bi		2,796,627.14	0.70	94.4	Analog	0.10	3
2	Sc		110,636.17	1.26	102.8	Pulse	0.30	3
2	Ge		68,279.79	0.57	99.2	Pulse	0.30	3
2	Ge		99,161.14	0.27	95.3	Pulse	0.30	3
2	Rh		1,594,112.33	0.44	91.0	Analog	0.30	3
2	In		648,532.50	0.56	93.8	Pulse	0.30	3
2	Tb		2,268,441.44	1.17	96.5	Analog	0.30	3
2	Ho		2,304,281.78	0.72	97.0	Analog	0.30	3
2	Bi		1,550,261.47	1.53	95.1	Analog	0.30	3
3	Sc		98,067.36	0.20	103.1	Pulse	0.30	3
3	Ge		60,679.95	1.20	95.5	Pulse	0.30	3
3	Ge		90,035.72	0.62	93.4	Pulse	0.30	3
3	Rh		957,243.74	0.27	92.5	Pulse	0.30	3
3	Tb		1,683,963.54	0.30	95.9	Analog	0.30	3

Quantitation Report

File Name	067SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 17:00
Sample Name	sampleconf
Sample Type	Sample
Comment	100X
Prep Dilution	100.000
Auto Dilution	N/A
Total Dilution	100.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-2.156	ug/l	-30.29	178.67	6.502E-05	Pulse	0.25	3
B			1	-13.203	ug/l	-16.20	3,953.90	1.435E-03	Pulse	0.15	3
Ca			1	222394.342	ug/l	10.21	1,706,583.15	7.742E-01	Analog	0.10	3
Sr			1	944.930	ug/l	1.41	384,337.23	1.212E-01	Pulse	0.10	3
Mo			1	28.258	ug/l	11.03	2,320.25	7.319E-04	Pulse	0.10	3
Ag			1	1.304	ug/l	51.57	276.68	8.370E-05	Pulse	0.10	3
Sn			1	156.822	ug/l	2.77	21,966.03	6.650E-03	Pulse	0.10	3
Sb			1	5.819	ug/l	12.54	1,233.44	2.760E-04	Pulse	0.10	3
Ba			1	9308.954	ug/l	0.74	567,070.03	1.269E-01	Pulse	0.10	3
Tl			1	0.238	ug/l	43.49	250.01	8.892E-05	Pulse	0.10	3
Pb			1	728.416	ug/l	1.88	96,789.22	3.445E-02	Pulse	0.10	3
Pb			1	692.598	ug/l	2.28	80,442.57	2.863E-02	Pulse	0.10	3
Pb			1	712.441	ug/l	0.80	376,039.66	1.338E-01	Pulse	0.10	3
Na			2	2827.524	ug/l	0.38	26,735.69	2.854E-01	Pulse	0.30	3
Mg			2	15690.959	ug/l	2.61	62,932.95	6.720E-01	Pulse	0.30	3
Al			2	7927.381	ug/l	1.37	11,240.51	1.200E-01	Pulse	0.30	3
K			2	3489.169	ug/l	3.55	21,417.26	2.287E-01	Pulse	0.30	3
Ca			2	212719.819	ug/l	2.05	31,888.42	3.404E-01	Pulse	0.30	3
Ti			2	251.816	ug/l	8.47	284.45	3.035E-03	Pulse	0.30	3
V			2	21.786	ug/l	7.89	1,117.83	1.194E-02	Pulse	0.30	3
Cr			2	643.566	ug/l	1.58	29,313.70	3.130E-01	Pulse	0.30	3
Mn			2	106622.763	ug/l	0.73	2,565,553.79	2.739E+01	Analog	0.30	3
Fe			2	181301.492	ug/l	1.02	6,848,649.87	7.312E+01	Analog	0.30	3
Co			2	56.220	ug/l	3.99	4,252.11	4.538E-02	Pulse	0.30	3
Ni			2	610.075	ug/l	4.63	12,907.40	1.378E-01	Pulse	0.30	3
Cu			2	8169.641	ug/l	1.09	443,065.52	4.730E+00	Pulse	0.30	3
Zn			2	2743.917	ug/l	2.40	29,532.27	3.153E-01	Pulse	0.30	3
As			2	171.249	ug/l	5.18	817.02	8.726E-03	Pulse	1.00	3
Cd			2	1.434	ug/l	34.82	25.41	4.020E-05	Pulse	0.30	3
Sn			2	191.556	ug/l	2.76	5,657.74	8.949E-03	Pulse	0.30	3
Se			3	3.954	ug/l	49.14	6.47	7.553E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,754,464.59	1.34	92.4	Analog	0.10	3
1	Sc		2,217,409.03	8.66	83.3	Analog	0.10	3
1	Ge		480,740.23	0.17	89.3	Pulse	0.10	3

Quantitation Report

1	Ge		656,824.85	1.29	88.8	Pulse	0.10	3
1	Rh		3,170,547.45	1.03	90.6	Analog	0.10	3
1	In		3,302,992.89	0.26	93.3	Analog	0.10	3
1	Tb		4,467,451.50	0.61	93.8	Analog	0.10	3
1	Ho		4,426,317.54	0.83	94.7	Analog	0.10	3
1	Bi		2,809,774.02	0.79	94.8	Analog	0.10	3
2	Sc		93,672.02	1.16	87.1	Pulse	0.30	3
2	Ge		63,079.98	0.70	91.6	Pulse	0.30	3
2	Ge		94,816.74	2.27	91.2	Pulse	0.30	3
2	Rh		1,620,070.35	0.88	92.5	Analog	0.30	3
2	In		632,211.21	0.67	91.4	Pulse	0.30	3
2	Tb		2,295,551.16	0.80	97.6	Analog	0.30	3
2	Ho		2,316,998.94	1.08	97.5	Analog	0.30	3
2	Bi		1,605,629.38	1.29	98.4	Analog	0.30	3
3	Sc		79,803.02	0.93	83.9	Pulse	0.30	3
3	Ge		56,088.08	0.93	88.3	Pulse	0.30	3
3	Ge		85,499.06	0.98	88.7	Pulse	0.30	3
3	Rh		905,778.30	0.80	87.6	Pulse	0.30	3
3	Tb		1,661,580.49	0.81	94.6	Analog	0.30	3

Quantitation Report

File Name	068SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 17:04
Sample Name	sampleconf
Sample Type	Sample
Comment	
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.438	ug/l	4.19	1,822.79	6.459E-04	Pulse	0.25	3
B			1	43.285	ug/l	1.81	16,597.35	5.880E-03	Pulse	0.15	3
Ca			1	52315.707	ug/l	2.19	2,280,067.31	9.097E-01	Analog	0.10	3
Sr			1	192.011	ug/l	0.82	399,847.26	1.232E-01	Pulse	0.10	3
Mo			1	3.958	ug/l	4.25	1,683.49	5.186E-04	Pulse	0.10	3
Ag			1	4.398	ug/l	3.29	4,344.07	1.315E-03	Pulse	0.10	3
Sn			1	30.169	ug/l	1.92	21,181.69	6.415E-03	Pulse	0.10	3
Sb			1	4.146	ug/l	12.96	3,637.26	8.000E-04	Pulse	0.10	3
Ba			1	2411.459	ug/l	0.61	747,461.60	1.644E-01	Pulse	0.10	3
Tl			1	0.822	ug/l	7.95	1,700.17	6.003E-04	Pulse	0.10	3
Pb			1	1521.911	ug/l	1.15	999,166.16	3.528E-01	Pulse	0.10	3
Pb			1	1429.775	ug/l	1.25	821,911.78	2.902E-01	Pulse	0.10	3
Pb			1	1528.203	ug/l	0.50	3,985,814.16	1.407E+00	Analog	0.10	3
Na			2	939.941	ug/l	3.57	45,953.30	4.499E-01	Pulse	0.30	3
Mg			2	37544.487	ug/l	1.97	813,220.11	7.961E+00	Pulse	0.30	3
Al			2	68228.074	ug/l	1.83	514,257.24	5.034E+00	Pulse	0.30	3
K			2	14033.855	ug/l	0.74	228,867.61	2.240E+00	Pulse	0.30	3
Ca			2	54099.654	ug/l	1.05	44,194.02	4.326E-01	Pulse	0.30	3
Ti			2	1965.692	ug/l	2.34	11,379.57	1.114E-01	Pulse	0.30	3
V			2	201.406	ug/l	3.10	39,483.71	3.866E-01	Pulse	0.30	3
Cr			2	137.064	ug/l	0.97	34,029.41	3.331E-01	Pulse	0.30	3
Mn			2	2425.850	ug/l	1.44	318,450.20	3.117E+00	Pulse	0.30	3
Fe			2	103188.954	ug/l	1.19	21,210,332.49	2.076E+02	Analog	0.30	3
Co			2	41.013	ug/l	1.62	16,791.46	1.644E-01	Pulse	0.30	3
Ni			2	86.277	ug/l	1.26	10,228.84	1.001E-01	Pulse	0.30	3
Cu			2	335.915	ug/l	1.20	100,306.79	9.819E-01	Pulse	0.30	3
Zn			2	2368.271	ug/l	1.36	116,187.85	1.137E+00	Pulse	0.30	3
As			2	61.402	ug/l	3.32	1,582.08	1.549E-02	Pulse	1.00	3
Cd			2	6.542	ug/l	6.24	485.47	7.301E-04	Pulse	0.30	3
Sn			2	36.743	ug/l	0.92	5,707.76	8.585E-03	Pulse	0.30	3
Se			3	4.150	ug/l	8.03	19.73	2.208E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,822,352.76	0.75	94.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,507,021.78	2.20	94.2	Analog	0.10	3
1	Ge		495,677.90	0.32	92.1	Pulse	0.10	3
1	Ge		684,484.60	0.24	92.6	Pulse	0.10	3
1	Rh		3,246,429.01	0.50	92.8	Analog	0.10	3
1	In		3,302,083.36	0.50	93.3	Analog	0.10	3
1	Tb		4,546,811.18	0.38	95.4	Analog	0.10	3
1	Ho		4,514,780.45	0.54	96.6	Analog	0.10	3
1	Bi		2,831,929.44	0.32	95.6	Analog	0.10	3
2	Sc		102,160.37	1.02	94.9	Pulse	0.30	3
2	Ge		67,380.37	0.87	97.8	Pulse	0.30	3
2	Ge		100,552.83	0.79	96.7	Pulse	0.30	3
2	Rh		1,664,620.31	1.28	95.1	Analog	0.30	3
2	In		664,814.33	0.59	96.1	Pulse	0.30	3
2	Tb		2,323,007.41	0.34	98.8	Analog	0.30	3
2	Ho		2,383,739.98	0.34	100.3	Analog	0.30	3
2	Bi		1,619,602.61	0.89	99.3	Analog	0.30	3
3	Sc		87,500.19	0.62	92.0	Pulse	0.30	3
3	Ge		58,628.06	0.49	92.3	Pulse	0.30	3
3	Ge		89,407.40	0.77	92.8	Pulse	0.30	3
3	Rh		955,952.05	0.44	92.4	Pulse	0.30	3
3	Tb		1,698,148.89	0.79	96.7	Analog	0.30	3

Quantitation Report

File Name	069SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 17:20
Sample Name	JD49193-9
Sample Type	Sample
Comment	
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.923	ug/l	7.26	2,056.15	7.188E-04	Pulse	0.25	3
B			1	51.862	ug/l	2.47	19,206.80	6.711E-03	Pulse	0.15	3
Ca			1	60693.136	ug/l	3.50	2,652,432.04	1.055E+00	Analog	0.10	3
Sr			1	227.810	ug/l	0.02	471,144.97	1.461E-01	Pulse	0.10	3
Mo			1	4.993	ug/l	7.46	2,093.56	6.489E-04	Pulse	0.10	3
Ag			1	5.931	ug/l	2.41	5,831.29	1.772E-03	Pulse	0.10	3
Sn			1	36.940	ug/l	4.45	25,505.03	7.749E-03	Pulse	0.10	3
Sb			1	5.434	ug/l	8.21	4,617.52	1.026E-03	Pulse	0.10	3
Ba			1	2870.129	ug/l	0.40	880,146.50	1.956E-01	Pulse	0.10	3
Tl			1	1.200	ug/l	3.24	2,370.29	8.503E-04	Pulse	0.10	3
Pb			1	1985.900	ug/l	0.58	1,282,950.60	4.602E-01	Analog	0.10	3
Pb			1	1717.825	ug/l	0.89	971,919.86	3.486E-01	Pulse	0.10	3
Pb			1	1865.389	ug/l	0.08	4,788,247.09	1.717E+00	Analog	0.10	3
Na			2	1130.677	ug/l	1.01	54,879.42	5.337E-01	Pulse	0.30	3
Mg			2	43579.803	ug/l	1.10	950,096.84	9.240E+00	Pulse	0.30	3
Al			2	78741.627	ug/l	0.84	597,393.16	5.810E+00	Pulse	0.30	3
K			2	17080.369	ug/l	1.11	277,650.06	2.700E+00	Pulse	0.30	3
Ca			2	62719.672	ug/l	0.71	51,561.63	5.014E-01	Pulse	0.30	3
Ti			2	2271.442	ug/l	2.61	13,230.96	1.287E-01	Pulse	0.30	3
V			2	233.342	ug/l	1.51	45,992.53	4.473E-01	Pulse	0.30	3
Cr			2	158.039	ug/l	0.95	39,455.31	3.837E-01	Pulse	0.30	3
Mn			2	2818.161	ug/l	0.67	372,362.92	3.621E+00	Pulse	0.30	3
Fe			2	118833.945	ug/l	1.45	24,582,732.36	2.391E+02	Analog	0.30	3
Co			2	46.271	ug/l	2.78	19,062.68	1.854E-01	Pulse	0.30	3
Ni			2	98.507	ug/l	2.84	11,625.32	1.130E-01	Pulse	0.30	3
Cu			2	386.220	ug/l	0.43	115,908.08	1.127E+00	Pulse	0.30	3
Zn			2	2719.533	ug/l	0.75	133,270.15	1.296E+00	Pulse	0.30	3
As			2	70.017	ug/l	1.96	1,813.44	1.764E-02	Pulse	1.00	3
Cd			2	7.336	ug/l	6.29	533.23	8.175E-04	Pulse	0.30	3
Sn			2	42.099	ug/l	0.58	6,411.37	9.828E-03	Pulse	0.30	3
Se			3	5.039	ug/l	12.68	22.73	2.592E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,862,941.43	2.18	96.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,517,109.49	3.50	94.5	Analog	0.10	3
1	Ge		493,317.27	1.17	91.6	Pulse	0.10	3
1	Ge		677,029.96	0.69	91.6	Pulse	0.10	3
1	Rh		3,224,846.93	0.91	92.2	Analog	0.10	3
1	In		3,291,371.44	1.65	93.0	Analog	0.10	3
1	Tb		4,498,581.29	0.83	94.4	Analog	0.10	3
1	Ho		4,460,422.85	0.95	95.5	Analog	0.10	3
1	Bi		2,788,130.90	1.07	94.1	Analog	0.10	3
2	Sc		102,833.25	1.04	95.6	Pulse	0.30	3
2	Ge		65,197.13	0.33	94.7	Pulse	0.30	3
2	Ge		98,041.10	1.43	94.3	Pulse	0.30	3
2	Rh		1,639,444.76	0.86	93.6	Analog	0.30	3
2	In		652,393.20	0.93	94.3	Pulse	0.30	3
2	Tb		2,299,391.85	0.58	97.8	Analog	0.30	3
2	Ho		2,302,433.59	0.54	96.9	Analog	0.30	3
2	Bi		1,586,300.07	0.59	97.3	Analog	0.30	3
3	Sc		87,890.81	0.51	92.4	Pulse	0.30	3
3	Ge		58,053.82	0.65	91.3	Pulse	0.30	3
3	Ge		87,747.71	0.74	91.1	Pulse	0.30	3
3	Rh		937,646.73	0.41	90.6	Pulse	0.30	3
3	Tb		1,665,157.85	1.17	94.8	Analog	0.30	3

Quantitation Report

File Name	070SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 17:39
Sample Name	JD49574-7
Sample Type	Sample
Comment	100X
Prep Dilution	100.000
Auto Dilution	N/A
Total Dilution	100.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-2.673	ug/l	-4.41	144.00	4.950E-05	Pulse	0.25	3
B			1	-27.707	ug/l	-1.62	3,355.99	1.154E-03	Pulse	0.15	3
Ca			1	183572.042	ug/l	9.80	1,463,500.86	6.399E-01	Analog	0.10	3
Sr			1	790.687	ug/l	0.60	330,027.72	1.015E-01	Pulse	0.10	3
Mo			1	20.320	ug/l	9.28	1,730.16	5.319E-04	Pulse	0.10	3
Ag			1	0.957	ug/l	8.42	210.01	6.301E-05	Pulse	0.10	3
Sn			1	117.795	ug/l	3.04	17,033.17	5.112E-03	Pulse	0.10	3
Sb			1	3.971	ug/l	3.06	943.40	2.111E-04	Pulse	0.10	3
Ba			1	7953.049	ug/l	0.61	484,691.70	1.085E-01	Pulse	0.10	3
Tl			1	-0.146	ug/l	-48.17	106.67	3.829E-05	Pulse	0.10	3
Pb			1	621.917	ug/l	1.29	82,322.32	2.952E-02	Pulse	0.10	3
Pb			1	600.336	ug/l	0.75	69,413.76	2.489E-02	Pulse	0.10	3
Pb			1	612.505	ug/l	1.16	321,970.03	1.155E-01	Pulse	0.10	3
Na			2	2346.069	ug/l	2.31	24,004.91	2.431E-01	Pulse	0.30	3
Mg			2	13127.954	ug/l	1.32	55,628.60	5.634E-01	Pulse	0.30	3
Al			2	6574.290	ug/l	3.19	9,880.80	1.000E-01	Pulse	0.30	3
K			2	3019.947	ug/l	4.01	21,182.44	2.145E-01	Pulse	0.30	3
Ca			2	176709.759	ug/l	0.55	27,933.57	2.829E-01	Pulse	0.30	3
Ti			2	223.332	ug/l	8.83	267.79	2.713E-03	Pulse	0.30	3
V			2	16.345	ug/l	0.57	974.49	9.869E-03	Pulse	0.30	3
Cr			2	537.701	ug/l	0.59	25,862.52	2.619E-01	Pulse	0.30	3
Mn			2	87072.286	ug/l	1.18	2,208,677.97	2.237E+01	Analog	0.30	3
Fe			2	146592.831	ug/l	0.36	5,842,448.93	5.917E+01	Analog	0.30	3
Co			2	47.708	ug/l	3.56	3,809.16	3.858E-02	Pulse	0.30	3
Ni			2	523.810	ug/l	2.79	11,812.11	1.196E-01	Pulse	0.30	3
Cu			2	6815.196	ug/l	0.54	389,847.93	3.948E+00	Pulse	0.30	3
Zn			2	2296.431	ug/l	0.37	27,137.03	2.748E-01	Pulse	0.30	3
As			2	132.180	ug/l	6.92	669.35	6.779E-03	Pulse	1.00	3
Cd			2	1.206	ug/l	56.46	23.22	3.517E-05	Pulse	0.30	3
Sn			2	146.286	ug/l	3.70	4,518.49	6.848E-03	Pulse	0.30	3
Se			3	2.342	ug/l	63.87	5.40	6.158E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,907,419.89	1.46	97.6	Analog	0.10	3
1	Sc		2,300,463.61	8.89	86.4	Analog	0.10	3
1	Ge		493,356.22	0.15	91.6	Pulse	0.10	3

Quantitation Report

1	Ge		684,347.85	0.71	92.6	Pulse	0.10	3
1	Rh		3,252,473.08	0.41	93.0	Analog	0.10	3
1	In		3,332,100.51	1.47	94.1	Analog	0.10	3
1	Tb		4,469,135.45	1.46	93.8	Analog	0.10	3
1	Ho		4,400,646.81	1.49	94.2	Analog	0.10	3
1	Bi		2,788,331.00	0.71	94.1	Analog	0.10	3
2	Sc		98,746.50	0.67	91.8	Pulse	0.30	3
2	Ge		66,143.31	0.77	96.1	Pulse	0.30	3
2	Ge		98,398.49	0.65	94.6	Pulse	0.30	3
2	Rh		1,657,953.72	0.51	94.7	Analog	0.30	3
2	In		659,808.99	0.48	95.4	Pulse	0.30	3
2	Tb		2,327,035.74	0.33	99.0	Analog	0.30	3
2	Ho		2,310,261.85	0.76	97.2	Analog	0.30	3
2	Bi		1,613,326.01	0.42	98.9	Analog	0.30	3
3	Sc		82,333.14	0.52	86.6	Pulse	0.30	3
3	Ge		57,714.91	0.26	90.8	Pulse	0.30	3
3	Ge		87,516.35	1.77	90.8	Pulse	0.30	3
3	Rh		929,432.01	0.32	89.8	Pulse	0.30	3
3	Tb		1,664,733.27	0.52	94.8	Analog	0.30	3

Quantitation Report

File Name	071SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 17:42
Sample Name	MP34519-S1
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	198.124	ug/l	3.71	34,965.23	1.203E-02	Pulse	0.25	3
B			1	175.639	ug/l	4.66	24,682.80	8.491E-03	Pulse	0.15	3
Ca			1	40959.434	ug/l	1.37	726,549.21	2.882E-01	Pulse	0.10	3
Sr			1	383.719	ug/l	1.39	319,724.95	9.849E-02	Pulse	0.10	3
Mo			1	185.497	ug/l	1.13	30,406.46	9.366E-03	Pulse	0.10	3
Ag			1	99.750	ug/l	3.57	39,008.68	1.189E-02	Pulse	0.10	3
Sn			1	191.763	ug/l	3.89	51,144.01	1.558E-02	Pulse	0.10	3
Sb			1	77.922	ug/l	3.20	24,741.42	5.548E-03	Pulse	0.10	3
Ba			1	907.732	ug/l	2.07	110,653.56	2.481E-02	Pulse	0.10	3
Tl			1	189.753	ug/l	1.18	138,256.94	5.018E-02	Pulse	0.10	3
Pb			1	2480.375	ug/l	1.31	634,424.90	2.303E-01	Pulse	0.10	3
Pb			1	2321.907	ug/l	1.32	519,964.72	1.887E-01	Pulse	0.10	3
Pb			1	2469.559	ug/l	2.16	2,509,439.07	9.108E-01	Analog	0.10	3
Na			2	10658.508	ug/l	0.88	198,007.62	1.910E+00	Pulse	0.30	3
Mg			2	51594.157	ug/l	0.40	454,049.13	4.379E+00	Pulse	0.30	3
Al			2	145418.515	ug/l	0.88	445,032.85	4.292E+00	Pulse	0.30	3
K			2	30715.671	ug/l	0.79	204,944.64	1.977E+00	Pulse	0.30	3
Ca			2	43444.143	ug/l	1.96	14,464.17	1.395E-01	Pulse	0.30	3
Ti			2	4518.871	ug/l	2.71	10,622.40	1.024E-01	Pulse	0.30	3
V			2	532.164	ug/l	0.55	42,337.71	4.084E-01	Pulse	0.30	3
Cr			2	421.904	ug/l	1.36	42,463.03	4.096E-01	Pulse	0.30	3
Mn			2	4856.495	ug/l	0.74	258,845.19	2.497E+00	Pulse	0.30	3
Fe			2	209648.940	ug/l	0.66	17,499,470.41	1.688E+02	Analog	0.30	3
Co			2	276.821	ug/l	0.45	45,937.89	4.431E-01	Pulse	0.30	3
Ni			2	355.119	ug/l	0.73	16,481.74	1.590E-01	Pulse	0.30	3
Cu			2	527.010	ug/l	1.10	64,341.88	6.206E-01	Pulse	0.30	3
Zn			2	3478.921	ug/l	1.01	72,164.44	6.960E-01	Pulse	0.30	3
As			2	258.173	ug/l	2.39	2,687.56	2.592E-02	Pulse	1.00	3
Cd			2	199.219	ug/l	1.96	5,884.89	8.796E-03	Pulse	0.30	3
Sn			2	208.438	ug/l	1.84	12,982.13	1.940E-02	Pulse	0.30	3
Se			3	549.718	ug/l	0.97	842.02	9.550E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,906,876.10	0.38	97.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,521,391.32	2.47	94.7	Analog	0.10	3
1	Ge		504,193.30	2.12	93.7	Pulse	0.10	3
1	Ge		697,944.91	1.10	94.4	Pulse	0.10	3
1	Rh		3,246,352.45	0.27	92.8	Analog	0.10	3
1	In		3,281,207.30	0.94	92.7	Analog	0.10	3
1	Tb		4,459,194.93	0.32	93.6	Analog	0.10	3
1	Ho		4,417,133.58	0.92	94.6	Analog	0.10	3
1	Bi		2,755,157.77	0.70	93.0	Analog	0.10	3
2	Sc		103,680.48	0.58	96.4	Pulse	0.30	3
2	Ge		66,839.36	0.87	97.1	Pulse	0.30	3
2	Ge		101,290.44	1.23	97.4	Pulse	0.30	3
2	Rh		1,673,347.12	0.96	95.6	Analog	0.30	3
2	In		669,062.57	0.62	96.8	Pulse	0.30	3
2	Tb		2,303,403.94	0.40	98.0	Analog	0.30	3
2	Ho		2,322,702.20	1.09	97.8	Analog	0.30	3
2	Bi		1,594,921.19	0.34	97.8	Analog	0.30	3
3	Sc		87,399.54	0.51	91.9	Pulse	0.30	3
3	Ge		58,468.72	0.96	92.0	Pulse	0.30	3
3	Ge		88,170.90	0.63	91.5	Pulse	0.30	3
3	Rh		945,511.04	0.54	91.4	Pulse	0.30	3
3	Tb		1,654,973.68	0.78	94.2	Analog	0.30	3

Quantitation Report

File Name	072SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 17:47
Sample Name	MP34519-S2
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	203.070	ug/l	2.46	36,055.47	1.233E-02	Pulse	0.25	3
B			1	177.459	ug/l	4.62	25,047.80	8.561E-03	Pulse	0.15	3
Ca			1	46652.907	ug/l	0.81	831,904.83	3.276E-01	Pulse	0.10	3
Sr			1	421.488	ug/l	0.44	348,888.13	1.082E-01	Pulse	0.10	3
Mo			1	191.370	ug/l	1.62	31,164.45	9.662E-03	Pulse	0.10	3
Ag			1	100.224	ug/l	1.76	39,373.03	1.194E-02	Pulse	0.10	3
Sn			1	213.598	ug/l	1.33	57,057.53	1.731E-02	Pulse	0.10	3
Sb			1	78.344	ug/l	0.78	24,970.55	5.578E-03	Pulse	0.10	3
Ba			1	934.169	ug/l	0.35	114,312.85	2.553E-02	Pulse	0.10	3
Tl			1	195.536	ug/l	1.17	142,907.73	5.171E-02	Pulse	0.10	3
Pb			1	2535.882	ug/l	1.59	650,541.12	2.354E-01	Pulse	0.10	3
Pb			1	2366.840	ug/l	1.13	531,645.76	1.924E-01	Pulse	0.10	3
Pb			1	2506.200	ug/l	1.73	2,554,238.32	9.243E-01	Analog	0.10	3
Na			2	11113.368	ug/l	0.88	205,823.99	1.990E+00	Pulse	0.30	3
Mg			2	53980.490	ug/l	0.97	473,922.17	4.582E+00	Pulse	0.30	3
Al			2	158420.180	ug/l	0.99	483,684.43	4.676E+00	Pulse	0.30	3
K			2	30623.267	ug/l	1.08	203,900.09	1.971E+00	Pulse	0.30	3
Ca			2	51253.439	ug/l	1.75	17,009.92	1.644E-01	Pulse	0.30	3
Ti			2	4611.823	ug/l	4.12	10,813.64	1.045E-01	Pulse	0.30	3
V			2	557.337	ug/l	2.35	44,221.11	4.275E-01	Pulse	0.30	3
Cr			2	451.745	ug/l	1.25	45,341.78	4.383E-01	Pulse	0.30	3
Mn			2	4380.524	ug/l	0.55	232,961.93	2.252E+00	Pulse	0.30	3
Fe			2	228783.345	ug/l	0.48	19,051,241.46	1.842E+02	Analog	0.30	3
Co			2	292.554	ug/l	0.66	48,433.97	4.682E-01	Pulse	0.30	3
Ni			2	375.057	ug/l	1.46	17,314.77	1.674E-01	Pulse	0.30	3
Cu			2	545.476	ug/l	1.09	66,402.21	6.419E-01	Pulse	0.30	3
Zn			2	3907.621	ug/l	1.24	80,013.73	7.735E-01	Pulse	0.30	3
As			2	275.349	ug/l	1.18	2,858.26	2.763E-02	Pulse	1.00	3
Cd			2	214.199	ug/l	2.19	6,305.02	9.457E-03	Pulse	0.30	3
Sn			2	238.604	ug/l	2.01	14,802.59	2.220E-02	Pulse	0.30	3
Se			3	582.715	ug/l	1.60	889.42	1.012E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,926,090.75	1.69	98.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,539,677.30	2.13	95.4	Analog	0.10	3
1	Ge		510,600.15	0.54	94.8	Pulse	0.10	3
1	Ge		699,488.51	0.95	94.6	Pulse	0.10	3
1	Rh		3,225,452.76	0.15	92.2	Analog	0.10	3
1	In		3,297,025.05	0.23	93.1	Analog	0.10	3
1	Tb		4,476,861.60	0.50	94.0	Analog	0.10	3
1	Ho		4,424,607.85	0.73	94.7	Analog	0.10	3
1	Bi		2,763,858.29	1.08	93.3	Analog	0.10	3
2	Sc		103,443.54	0.53	96.1	Pulse	0.30	3
2	Ge		66,800.41	0.53	97.0	Pulse	0.30	3
2	Ge		100,954.48	0.74	97.1	Pulse	0.30	3
2	Rh		1,657,629.59	2.01	94.7	Analog	0.30	3
2	In		666,670.37	0.49	96.4	Pulse	0.30	3
2	Tb		2,273,974.28	0.92	96.7	Analog	0.30	3
2	Ho		2,300,561.09	1.43	96.8	Analog	0.30	3
2	Bi		1,574,430.04	2.20	96.5	Analog	0.30	3
3	Sc		86,729.46	0.44	91.2	Pulse	0.30	3
3	Ge		57,967.87	0.34	91.2	Pulse	0.30	3
3	Ge		87,889.42	0.54	91.2	Pulse	0.30	3
3	Rh		941,777.53	0.78	91.0	Pulse	0.30	3
3	Tb		1,660,159.00	0.77	94.5	Analog	0.30	3

Quantitation Report

File Name	073SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 17:52
Sample Name	JD49472-3
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.550	ug/l	6.15	1,342.74	4.631E-04	Pulse	0.25	3
B			1	10.463	ug/l	16.36	6,079.02	2.096E-03	Pulse	0.15	3
Ca			1	37088.734	ug/l	1.97	657,479.00	2.614E-01	Pulse	0.10	3
Sr			1	221.446	ug/l	0.15	183,754.48	5.691E-02	Pulse	0.10	3
Mo			1	7.535	ug/l	19.20	1,290.10	3.996E-04	Pulse	0.10	3
Ag			1	0.564	ug/l	7.81	240.01	7.318E-05	Pulse	0.10	3
Sn			1	32.157	ug/l	1.76	9,853.43	3.004E-03	Pulse	0.10	3
Sb			1	3.812	ug/l	4.69	1,503.46	3.395E-04	Pulse	0.10	3
Ba			1	694.968	ug/l	1.43	84,201.62	1.901E-02	Pulse	0.10	3
Tl			1	2.098	ug/l	7.63	1,680.16	6.117E-04	Pulse	0.10	3
Pb			1	2310.101	ug/l	0.54	589,438.79	2.145E-01	Pulse	0.10	3
Pb			1	2153.929	ug/l	0.15	481,180.00	1.751E-01	Pulse	0.10	3
Pb			1	2241.077	ug/l	0.77	2,271,941.48	8.268E-01	Mix	0.10	3
Na			2	1052.178	ug/l	1.02	22,826.62	2.219E-01	Pulse	0.30	3
Mg			2	42662.887	ug/l	0.78	372,684.59	3.623E+00	Pulse	0.30	3
Al			2	129691.554	ug/l	0.92	393,889.31	3.829E+00	Pulse	0.30	3
K			2	20022.568	ug/l	1.73	136,987.40	1.332E+00	Pulse	0.30	3
Ca			2	38910.651	ug/l	2.75	12,861.76	1.250E-01	Pulse	0.30	3
Ti			2	4227.654	ug/l	4.74	9,861.93	9.585E-02	Pulse	0.30	3
V			2	326.441	ug/l	1.16	25,915.96	2.519E-01	Pulse	0.30	3
Cr			2	233.127	ug/l	2.08	23,399.35	2.274E-01	Pulse	0.30	3
Mn			2	4000.961	ug/l	0.73	211,636.48	2.057E+00	Pulse	0.30	3
Fe			2	207291.014	ug/l	0.47	17,169,707.65	1.669E+02	Analog	0.30	3
Co			2	82.944	ug/l	1.15	13,689.49	1.331E-01	Pulse	0.30	3
Ni			2	158.879	ug/l	0.65	7,835.28	7.616E-02	Pulse	0.30	3
Cu			2	332.176	ug/l	0.71	40,693.78	3.955E-01	Pulse	0.30	3
Zn			2	3421.825	ug/l	1.25	70,547.53	6.857E-01	Pulse	0.30	3
As			2	58.182	ug/l	2.30	616.35	5.991E-03	Pulse	1.00	3
Cd			2	7.328	ug/l	18.47	221.04	3.318E-04	Pulse	0.30	3
Sn			2	43.395	ug/l	1.83	2,721.38	4.088E-03	Pulse	0.30	3
Se			3	8.663	ug/l	20.81	16.80	1.912E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,900,025.75	1.05	97.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,515,667.83	2.21	94.5	Analog	0.10	3
1	Ge		505,515.76	0.73	93.9	Pulse	0.10	3
1	Ge		694,399.05	0.61	93.9	Pulse	0.10	3
1	Rh		3,228,838.49	0.44	92.3	Analog	0.10	3
1	In		3,279,880.74	1.08	92.7	Analog	0.10	3
1	Tb		4,428,187.33	0.50	92.9	Analog	0.10	3
1	Ho		4,399,474.52	0.95	94.2	Analog	0.10	3
1	Bi		2,747,785.90	0.89	92.7	Analog	0.10	3
2	Sc		102,881.34	0.30	95.6	Pulse	0.30	3
2	Ge		66,300.28	1.36	96.3	Pulse	0.30	3
2	Ge		99,422.44	0.97	95.6	Pulse	0.30	3
2	Rh		1,642,446.15	1.31	93.8	Analog	0.30	3
2	In		665,726.17	0.67	96.3	Pulse	0.30	3
2	Tb		2,285,092.96	1.42	97.2	Analog	0.30	3
2	Ho		2,296,241.92	1.31	96.6	Analog	0.30	3
2	Bi		1,579,252.57	1.34	96.8	Analog	0.30	3
3	Sc		86,351.04	0.22	90.8	Pulse	0.30	3
3	Ge		57,955.88	1.46	91.2	Pulse	0.30	3
3	Ge		87,804.49	0.82	91.1	Pulse	0.30	3
3	Rh		949,437.36	0.67	91.8	Pulse	0.30	3
3	Tb		1,651,410.01	1.18	94.0	Analog	0.30	3

Quantitation Report

File Name	074SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:04
Sample Name	MP34519-SD1
Sample Type	Sample
Comment	250X
Prep Dilution	250.000
Auto Dilution	N/A
Total Dilution	250.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.668	ug/l	-63.75	353.34	1.217E-04	Pulse	0.25	3
B			1	-123.974	ug/l	-9.86	2,120.20	7.307E-04	Pulse	0.15	3
Ca			1	38440.568	ug/l	7.40	134,363.09	5.801E-02	Pulse	0.10	3
Sr			1	215.609	ug/l	1.63	36,468.94	1.122E-02	Pulse	0.10	3
Mo			1	5.751	ug/l	33.74	253.34	7.795E-05	Pulse	0.10	3
Ag			1	0.258	ug/l	48.28	40.00	1.219E-05	Pulse	0.10	3
Sn			1	18.053	ug/l	19.31	2,473.62	7.544E-04	Pulse	0.10	3
Sb			1	1.355	ug/l	73.00	400.02	9.062E-05	Pulse	0.10	3
Ba			1	678.091	ug/l	2.56	16,629.47	3.768E-03	Pulse	0.10	3
Tl			1	1.046	ug/l	28.97	306.68	1.128E-04	Pulse	0.10	3
Pb			1	2310.418	ug/l	1.39	118,355.13	4.351E-02	Pulse	0.10	3
Pb			1	2152.552	ug/l	2.68	96,449.93	3.546E-02	Pulse	0.10	3
Pb			1	2217.945	ug/l	2.16	451,453.84	1.660E-01	Pulse	0.10	3
Na			2	858.970	ug/l	7.93	6,678.05	6.718E-02	Pulse	0.30	3
Mg			2	43919.979	ug/l	0.72	74,688.14	7.515E-01	Pulse	0.30	3
Al			2	137211.232	ug/l	2.20	80,760.98	8.126E-01	Pulse	0.30	3
K			2	22198.520	ug/l	2.72	38,886.18	3.913E-01	Pulse	0.30	3
Ca			2	40048.911	ug/l	6.09	2,620.24	2.636E-02	Pulse	0.30	3
Ti			2	4481.823	ug/l	2.35	2,034.60	2.047E-02	Pulse	0.30	3
V			2	323.382	ug/l	2.31	5,252.00	5.284E-02	Pulse	0.30	3
Cr			2	242.736	ug/l	3.64	4,907.70	4.938E-02	Pulse	0.30	3
Mn			2	4162.000	ug/l	1.81	42,667.35	4.293E-01	Pulse	0.30	3
Fe			2	223797.099	ug/l	1.21	3,600,221.94	3.623E+01	Analog	0.30	3
Co			2	88.392	ug/l	6.68	2,852.79	2.870E-02	Pulse	0.30	3
Ni			2	168.418	ug/l	7.54	2,317.97	2.333E-02	Pulse	0.30	3
Cu			2	331.159	ug/l	3.74	8,781.32	8.834E-02	Pulse	0.30	3
Zn			2	3520.394	ug/l	3.20	19,333.73	1.945E-01	Pulse	0.30	3
As			2	57.969	ug/l	18.46	134.00	1.349E-03	Pulse	1.00	3
Cd			2	5.375	ug/l	31.78	36.66	5.599E-05	Pulse	0.30	3
Sn			2	62.606	ug/l	8.65	800.03	1.223E-03	Pulse	0.30	3
Se			3	1.927	ug/l	88.06	4.20	4.800E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,902,145.71	0.20	97.4	Analog	0.10	3
1	Sc		2,324,371.58	7.92	87.3	Analog	0.10	3
1	Ge		493,750.88	1.48	91.7	Pulse	0.10	3

Quantitation Report

1	Ge		685,929.62	0.62	92.8	Pulse	0.10	3
1	Rh		3,250,384.32	0.98	92.9	Analog	0.10	3
1	In		3,277,729.29	1.04	92.6	Analog	0.10	3
1	Tb		4,413,064.93	0.36	92.6	Analog	0.10	3
1	Ho		4,414,845.98	0.93	94.5	Analog	0.10	3
1	Bi		2,720,575.89	0.99	91.8	Analog	0.10	3
2	Sc		99,387.13	0.63	92.4	Pulse	0.30	3
2	Ge		65,371.17	0.32	94.9	Pulse	0.30	3
2	Ge		98,612.25	1.44	94.8	Pulse	0.30	3
2	Rh		1,635,420.63	1.37	93.4	Analog	0.30	3
2	In		654,248.07	0.38	94.6	Pulse	0.30	3
2	Tb		2,262,757.62	1.18	96.2	Analog	0.30	3
2	Ho		2,286,191.02	1.73	96.2	Analog	0.30	3
2	Bi		1,565,350.56	1.26	96.0	Analog	0.30	3
3	Sc		83,229.66	0.27	87.5	Pulse	0.30	3
3	Ge		57,287.96	1.31	90.1	Pulse	0.30	3
3	Ge		87,473.84	0.62	90.8	Pulse	0.30	3
3	Rh		930,237.81	0.83	89.9	Pulse	0.30	3
3	Tb		1,657,897.23	0.99	94.4	Analog	0.30	3

Quantitation Report

File Name	075_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:08
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.706	ug/l	1.26	425,024.76	1.524E-01	Pulse	0.25	3
B			1	95.871	ug/l	1.94	522,332.25	1.873E-01	Pulse	0.15	3
Ca			1	5113.497	ug/l	1.81	4,421,894.72	1.774E+00	Analog	0.10	3
Sr			1	51.952	ug/l	0.82	2,023,529.45	6.657E-01	Analog	0.10	3
Mo			1	50.933	ug/l	1.09	390,062.01	1.283E-01	Pulse	0.10	3
Ag			1	52.336	ug/l	1.31	968,287.59	3.117E-01	Pulse	0.10	3
Sn			1	48.670	ug/l	0.68	597,410.89	1.923E-01	Pulse	0.10	3
Sb			1	50.856	ug/l	1.23	761,569.55	1.788E-01	Pulse	0.10	3
Ba			1	49.754	ug/l	3.43	289,100.51	6.788E-02	Pulse	0.10	3
Tl			1	53.451	ug/l	0.60	1,802,882.11	7.060E-01	Analog	0.10	3
Pb			1	50.545	ug/l	1.54	599,073.52	2.346E-01	Pulse	0.10	3
Pb			1	49.161	ug/l	0.96	510,103.90	1.998E-01	Pulse	0.10	3
Pb			1	51.303	ug/l	0.80	2,415,509.01	9.459E-01	Analog	0.10	3
Na			2	5084.395	ug/l	2.73	4,594,285.93	4.471E+01	Analog	0.30	3
Mg			2	5142.708	ug/l	1.21	2,240,127.27	2.180E+01	Analog	0.30	3
Al			2	4952.422	ug/l	1.40	750,950.18	7.307E+00	Pulse	0.30	3
K			2	5144.399	ug/l	1.88	1,607,675.84	1.564E+01	Analog	0.30	3
Ca			2	5201.871	ug/l	1.04	85,423.74	8.312E-01	Pulse	0.30	3
Ti			2	49.906	ug/l	1.18	5,822.20	5.665E-02	Pulse	0.30	3
V			2	48.908	ug/l	1.51	191,493.44	1.863E+00	Pulse	0.30	3
Cr			2	48.268	ug/l	0.49	239,533.60	2.331E+00	Pulse	0.30	3
Mn			2	48.529	ug/l	1.61	128,278.49	1.248E+00	Pulse	0.30	3
Fe			2	5065.672	ug/l	1.25	20,951,133.06	2.039E+02	Analog	0.30	3
Co			2	47.616	ug/l	1.19	391,275.63	3.807E+00	Pulse	0.30	3
Ni			2	47.169	ug/l	0.60	103,220.59	1.004E+00	Pulse	0.30	3
Cu			2	46.990	ug/l	1.06	280,137.12	2.726E+00	Pulse	0.30	3
Zn			2	45.947	ug/l	1.94	49,585.88	4.825E-01	Pulse	0.30	3
As			2	48.930	ug/l	0.93	25,073.52	2.440E-01	Pulse	1.00	3
Cd			2	48.781	ug/l	0.63	68,626.14	1.076E-01	Pulse	0.30	3
Sn			2	49.987	ug/l	1.31	147,972.19	2.320E-01	Pulse	0.30	3
Se			3	198.687	ug/l	0.77	15,005.59	1.719E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,789,247.57	0.82	93.6	Analog	0.10	3
1	Sc		2,493,163.09	0.73	93.6	Analog	0.10	3
1	Ge		484,417.74	1.06	90.0	Pulse	0.10	3

Quantitation Report

1	Ge		670,766.32	1.41	90.7	Pulse	0.10	3
1	Rh		3,039,474.02	0.44	86.9	Analog	0.10	3
1	In		3,106,987.23	0.38	87.8	Analog	0.10	3
1	Tb		4,259,963.68	0.92	89.4	Analog	0.10	3
1	Ho		4,254,451.61	0.76	91.1	Analog	0.10	3
1	Bi		2,553,561.73	0.25	86.2	Analog	0.10	3
2	Sc		102,772.71	0.40	95.5	Pulse	0.30	3
2	Ge		63,791.83	0.46	92.6	Pulse	0.30	3
2	Ge		96,325.53	1.08	92.6	Pulse	0.30	3
2	Rh		1,562,612.34	0.69	89.2	Analog	0.30	3
2	In		637,822.34	0.64	92.2	Pulse	0.30	3
2	Tb		2,225,581.23	0.37	94.7	Analog	0.30	3
2	Ho		2,230,184.70	1.30	93.9	Analog	0.30	3
2	Bi		1,489,825.05	0.74	91.3	Analog	0.30	3
3	Sc		88,504.43	1.09	93.1	Pulse	0.30	3
3	Ge		56,791.86	0.97	89.4	Pulse	0.30	3
3	Ge		87,310.65	0.83	90.6	Pulse	0.30	3
3	Rh		919,839.06	0.40	88.9	Pulse	0.30	3
3	Tb		1,622,501.67	0.80	92.4	Analog	0.30	3

Quantitation Report

File Name	076BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:11
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.016	ug/l	-21.14	229.34	8.118E-05	Pulse	0.25	3
B			1	1.482	ug/l	8.22	12,887.41	4.560E-03	Pulse	0.15	3
Ca			1	-4.695	ug/l	-7.54	7,795.46	3.197E-03	Pulse	0.10	3
Sr			1	-0.002	ug/l	-72.47	446.69	1.418E-04	Pulse	0.10	3
Mo			1	0.022	ug/l	61.41	240.01	7.602E-05	Pulse	0.10	3
Ag			1	0.003	ug/l	38.10	83.33	2.601E-05	Pulse	0.10	3
Sn			1	0.183	ug/l	19.09	3,800.63	1.190E-03	Pulse	0.10	3
Sb			1	0.015	ug/l	41.99	533.36	1.229E-04	Pulse	0.10	3
Ba			1	-0.030	ug/l	-28.04	133.34	3.076E-05	Pulse	0.10	3
Tl			1	0.028	ug/l	13.17	1,130.09	4.316E-04	Pulse	0.10	3
Pb			1	0.045	ug/l	29.89	2,510.32	9.582E-04	Pulse	0.10	3
Pb			1	0.036	ug/l	31.85	1,870.20	7.142E-04	Pulse	0.10	3
Pb			1	0.030	ug/l	6.41	8,954.72	3.418E-03	Pulse	0.10	3
Na			2	-0.619	ug/l	-4.98	3,088.10	3.155E-02	Pulse	0.30	3
Mg			2	-0.658	ug/l	-15.46	424.46	4.338E-03	Pulse	0.30	3
Al			2	0.198	ug/l	129.37	331.12	3.382E-03	Pulse	0.30	3
K			2	6.753	ug/l	21.07	14,063.79	1.438E-01	Pulse	0.30	3
Ca			2	-2.584	ug/l	-29.91	36.66	3.761E-04	Pulse	0.30	3
Ti			2	0.098	ug/l	121.24	28.89	2.963E-04	Pulse	0.30	3
V			2	0.022	ug/l	36.12	440.01	4.493E-03	Pulse	0.30	3
Cr			2	-0.010	ug/l	-58.53	202.61	2.067E-03	Pulse	0.30	3
Mn			2	-0.004	ug/l	-218.73	150.00	1.536E-03	Pulse	0.30	3
Fe			2	17.302	ug/l	18.30	91,848.78	9.371E-01	Pulse	0.30	3
Co			2	-0.002	ug/l	-127.45	28.64	2.905E-04	Pulse	0.30	3
Ni			2	-0.050	ug/l	-37.93	788.92	8.059E-03	Pulse	0.30	3
Cu			2	-0.054	ug/l	-10.21	854.48	8.729E-03	Pulse	0.30	3
Zn			2	-0.739	ug/l	-20.52	5,930.04	6.062E-02	Pulse	0.30	3
As			2	0.006	ug/l	62.58	22.00	2.248E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.009	ug/l	63.72	18.87	2.894E-05	Pulse	0.30	3
Sn			2	0.527	ug/l	12.20	1,636.78	2.507E-03	Pulse	0.30	3
Se			3	0.202	ug/l	12.08	18.73	2.156E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,827,470.91	1.36	94.9	Analog	0.10	3
1	Sc		2,437,810.38	1.16	91.6	Analog	0.10	3
1	Ge		488,125.27	1.12	90.7	Pulse	0.10	3
1	Ge		678,384.05	0.78	91.8	Pulse	0.10	3
1	Rh		3,155,817.25	1.66	90.2	Analog	0.10	3
1	In		3,197,177.09	1.93	90.3	Analog	0.10	3
1	Tb		4,340,232.75	0.48	91.1	Analog	0.10	3
1	Ho		4,267,812.13	0.46	91.4	Analog	0.10	3
1	Bi		2,619,707.98	1.03	88.4	Analog	0.10	3
2	Sc		97,857.22	1.85	90.9	Pulse	0.30	3
2	Ge		64,328.17	0.41	93.4	Pulse	0.30	3
2	Ge		96,608.18	0.95	92.9	Pulse	0.30	3
2	Rh		1,639,195.28	1.30	93.6	Analog	0.30	3
2	In		652,392.40	0.84	94.3	Pulse	0.30	3
2	Tb		2,220,525.47	1.19	94.4	Analog	0.30	3
2	Ho		2,216,535.33	0.83	93.3	Analog	0.30	3
2	Bi		1,514,996.99	1.67	92.9	Analog	0.30	3
3	Sc		85,360.20	0.33	89.8	Pulse	0.30	3
3	Ge		57,811.85	1.21	91.0	Pulse	0.30	3
3	Ge		86,918.79	0.89	90.2	Pulse	0.30	3
3	Rh		949,444.47	0.43	91.8	Pulse	0.30	3
3	Tb		1,654,156.46	0.14	94.2	Analog	0.30	3

Quantitation Report

File Name	077SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:14
Sample Name	JD49472-1
Sample Type	Sample
Comment	20x
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	7.133	ug/l	1.02	3,396.39	1.201E-03	Pulse	0.25	3
B			1	41.689	ug/l	0.24	16,196.98	5.726E-03	Pulse	0.15	3
Ca			1	118604.780	ug/l	0.67	5,248,739.30	2.056E+00	Analog	0.10	3
Sr			1	498.803	ug/l	0.85	1,006,445.43	3.197E-01	Pulse	0.10	3
Mo			1	6.398	ug/l	6.88	2,600.32	8.259E-04	Pulse	0.10	3
Ag			1	1.156	ug/l	10.29	1,120.09	3.502E-04	Pulse	0.10	3
Sn			1	105.041	ug/l	1.14	67,743.47	2.117E-02	Pulse	0.10	3
Sb			1	103.634	ug/l	1.68	81,307.01	1.828E-02	Pulse	0.10	3
Ba			1	1464.774	ug/l	0.35	444,286.40	9.988E-02	Pulse	0.10	3
Tl			1	1.195	ug/l	6.38	2,303.60	8.467E-04	Pulse	0.10	3
Pb			1	1684.933	ug/l	0.56	1,062,511.08	3.905E-01	Pulse	0.10	3
Pb			1	1575.190	ug/l	0.18	869,764.47	3.197E-01	Pulse	0.10	3
Pb			1	1651.844	ug/l	0.32	4,138,285.87	1.521E+00	Analog	0.10	3
Na			2	1049.544	ug/l	16.94	51,836.60	4.980E-01	Pulse	0.30	3
Mg			2	50219.188	ug/l	0.98	1,108,934.78	1.065E+01	Pulse	0.30	3
Al			2	108799.762	ug/l	0.81	836,013.44	8.026E+00	Pulse	0.30	3
K			2	11655.731	ug/l	0.92	196,015.17	1.882E+00	Pulse	0.30	3
Ca			2	120424.668	ug/l	0.55	100,207.60	9.620E-01	Pulse	0.30	3
Ti			2	4477.629	ug/l	3.24	26,399.27	2.535E-01	Pulse	0.30	3
V			2	234.304	ug/l	1.22	46,779.12	4.491E-01	Pulse	0.30	3
Cr			2	201.280	ug/l	2.07	50,823.14	4.880E-01	Pulse	0.30	3
Mn			2	4403.195	ug/l	0.18	589,268.14	5.657E+00	Pulse	0.30	3
Fe			2	200361.256	ug/l	1.21	41,970,022.77	4.029E+02	Analog	0.30	3
Co			2	92.944	ug/l	1.24	38,746.95	3.720E-01	Pulse	0.30	3
Ni			2	233.698	ug/l	2.01	26,629.42	2.557E-01	Pulse	0.30	3
Cu			2	480.537	ug/l	0.45	145,782.43	1.400E+00	Pulse	0.30	3
Zn			2	2423.224	ug/l	0.84	121,061.62	1.162E+00	Pulse	0.30	3
As			2	92.510	ug/l	1.17	2,420.52	2.324E-02	Pulse	1.00	3
Cd			2	7.151	ug/l	8.59	520.97	7.972E-04	Pulse	0.30	3
Sn			2	113.483	ug/l	0.44	17,252.95	2.639E-02	Pulse	0.30	3
Se			3	11.260	ug/l	10.36	46.60	5.282E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,828,730.08	0.72	94.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,552,703.19	1.71	95.9	Analog	0.10	3
1	Ge		504,332.19	1.39	93.7	Pulse	0.10	3
1	Ge		690,063.82	0.89	93.3	Pulse	0.10	3
1	Rh		3,148,302.66	0.72	90.0	Analog	0.10	3
1	In		3,200,545.64	1.51	90.4	Analog	0.10	3
1	Tb		4,448,088.58	0.80	93.4	Analog	0.10	3
1	Ho		4,398,643.99	0.44	94.2	Analog	0.10	3
1	Bi		2,720,644.02	0.75	91.8	Analog	0.10	3
2	Sc		104,167.06	1.22	96.8	Pulse	0.30	3
2	Ge		66,172.29	0.75	96.1	Pulse	0.30	3
2	Ge		98,534.03	1.07	94.7	Pulse	0.30	3
2	Rh		1,599,613.48	0.92	91.3	Analog	0.30	3
2	In		653,779.53	0.88	94.5	Pulse	0.30	3
2	Tb		2,230,074.35	0.54	94.8	Analog	0.30	3
2	Ho		2,263,935.88	0.95	95.3	Analog	0.30	3
2	Bi		1,539,734.83	0.45	94.4	Analog	0.30	3
3	Sc		89,543.04	1.12	94.2	Pulse	0.30	3
3	Ge		58,458.61	0.65	92.0	Pulse	0.30	3
3	Ge		88,183.27	1.44	91.5	Pulse	0.30	3
3	Rh		942,001.46	0.16	91.1	Pulse	0.30	3
3	Tb		1,639,005.07	0.26	93.3	Analog	0.30	3

Quantitation Report

File Name	078SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:18
Sample Name	JD49491-1
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.482	ug/l	2.66	5,080.83	1.776E-03	Pulse	0.25	3
B			1	25.458	ug/l	0.89	18,939.89	6.619E-03	Pulse	0.15	3
Ca			1	5875.274	ug/l	1.02	553,599.97	2.081E-01	Pulse	0.10	3
Sr			1	78.381	ug/l	0.56	313,172.47	1.006E-01	Pulse	0.10	3
Mo			1	5.817	ug/l	4.06	4,624.20	1.485E-03	Pulse	0.10	3
Ag			1	0.430	ug/l	20.00	843.40	2.619E-04	Pulse	0.10	3
Sn			1	26.264	ug/l	2.63	34,823.03	1.082E-02	Pulse	0.10	3
Sb			1	1.604	ug/l	3.58	2,760.33	6.351E-04	Pulse	0.10	3
Ba			1	693.325	ug/l	1.56	410,992.56	9.456E-02	Pulse	0.10	3
Tl			1	1.818	ug/l	3.52	6,545.02	2.458E-03	Pulse	0.10	3
Pb			1	230.428	ug/l	1.04	285,861.55	1.074E-01	Pulse	0.10	3
Pb			1	213.142	ug/l	0.77	231,468.43	8.693E-02	Pulse	0.10	3
Pb			1	223.757	ug/l	0.71	1,102,850.67	4.142E-01	Pulse	0.10	3
Na			2	777.770	ug/l	10.39	75,726.10	7.203E-01	Pulse	0.30	3
Mg			2	13688.036	ug/l	0.54	610,492.22	5.807E+00	Pulse	0.30	3
Al			2	138191.380	ug/l	1.71	2,142,992.34	2.038E+01	Analog	0.30	3
K			2	5986.618	ug/l	2.23	202,847.92	1.930E+00	Pulse	0.30	3
Ca			2	6129.429	ug/l	0.92	10,370.01	9.864E-02	Pulse	0.30	3
Ti			2	1857.261	ug/l	2.81	22,111.69	2.103E-01	Pulse	0.30	3
V			2	313.749	ug/l	0.84	125,805.24	1.197E+00	Pulse	0.30	3
Cr			2	185.623	ug/l	0.92	94,396.15	8.979E-01	Pulse	0.30	3
Mn			2	4370.005	ug/l	0.57	1,180,311.76	1.123E+01	Pulse	0.30	3
Fe			2	162200.986	ug/l	0.59	68,570,641.72	6.522E+02	Analog	0.30	3
Co			2	56.785	ug/l	1.76	47,773.32	4.544E-01	Pulse	0.30	3
Ni			2	112.799	ug/l	0.59	25,979.48	2.471E-01	Pulse	0.30	3
Cu			2	82.256	ug/l	1.51	51,190.57	4.869E-01	Pulse	0.30	3
Zn			2	578.635	ug/l	1.32	62,045.68	5.902E-01	Pulse	0.30	3
As			2	44.271	ug/l	4.98	2,339.18	2.225E-02	Pulse	1.00	3
Cd			2	0.535	ug/l	22.40	81.93	1.265E-04	Pulse	0.30	3
Sn			2	28.942	ug/l	1.43	8,740.31	1.349E-02	Pulse	0.30	3
Se			3	7.552	ug/l	5.20	59.87	6.944E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,861,324.87	1.18	96.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,660,796.31	0.96	99.9	Analog	0.10	3
1	Ge		512,605.68	0.21	95.2	Pulse	0.10	3
1	Ge		693,853.76	1.00	93.9	Pulse	0.10	3
1	Rh		3,113,464.74	0.33	89.0	Analog	0.10	3
1	In		3,218,376.40	0.40	90.9	Analog	0.10	3
1	Tb		4,346,108.06	0.68	91.2	Analog	0.10	3
1	Ho		4,327,705.98	0.55	92.6	Analog	0.10	3
1	Bi		2,662,786.21	0.76	89.8	Analog	0.10	3
2	Sc		105,132.06	0.30	97.7	Pulse	0.30	3
2	Ge		65,876.65	0.48	95.7	Pulse	0.30	3
2	Ge		96,774.59	0.51	93.0	Pulse	0.30	3
2	Rh		1,557,872.34	0.26	89.0	Analog	0.30	3
2	In		647,919.41	0.55	93.7	Pulse	0.30	3
2	Tb		2,181,820.05	0.29	92.8	Analog	0.30	3
2	Ho		2,213,160.54	1.03	93.2	Analog	0.30	3
2	Bi		1,511,728.07	0.17	92.7	Analog	0.30	3
3	Sc		91,093.58	0.79	95.8	Pulse	0.30	3
3	Ge		58,443.00	0.39	92.0	Pulse	0.30	3
3	Ge		86,189.36	0.86	89.4	Pulse	0.30	3
3	Rh		923,539.96	0.06	89.3	Pulse	0.30	3
3	Tb		1,620,468.09	2.25	92.3	Analog	0.30	3

Quantitation Report

File Name	079SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:21
Sample Name	JD49491-1
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.806	ug/l	30.64	1,024.05	3.584E-04	Pulse	0.25	3
B			1	5.926	ug/l	17.45	5,489.92	1.920E-03	Pulse	0.15	3
Ca			1	5292.212	ug/l	1.00	101,371.69	4.144E-02	Pulse	0.10	3
Sr			1	66.137	ug/l	0.90	54,042.11	1.712E-02	Pulse	0.10	3
Mo			1	5.386	ug/l	5.74	920.07	2.914E-04	Pulse	0.10	3
Ag			1	0.332	ug/l	28.49	146.67	4.552E-05	Pulse	0.10	3
Sn			1	19.228	ug/l	2.90	6,404.86	1.985E-03	Pulse	0.10	3
Sb			1	0.842	ug/l	31.27	570.03	1.308E-04	Pulse	0.10	3
Ba			1	593.366	ug/l	0.24	70,745.21	1.625E-02	Pulse	0.10	3
Tl			1	1.272	ug/l	12.00	1,060.08	3.937E-04	Pulse	0.10	3
Pb			1	201.086	ug/l	1.35	52,089.54	1.936E-02	Pulse	0.10	3
Pb			1	185.809	ug/l	0.60	42,054.24	1.563E-02	Pulse	0.10	3
Pb			1	193.354	ug/l	0.99	199,037.36	7.396E-02	Pulse	0.10	3
Na			2	754.674	ug/l	19.91	16,604.32	1.696E-01	Pulse	0.30	3
Mg			2	13011.519	ug/l	1.35	108,704.07	1.110E+00	Pulse	0.30	3
Al			2	127900.167	ug/l	1.54	369,835.91	3.776E+00	Pulse	0.30	3
K			2	5978.304	ug/l	1.01	47,425.89	4.841E-01	Pulse	0.30	3
Ca			2	5611.913	ug/l	1.31	1,832.35	1.871E-02	Pulse	0.30	3
Ti			2	1831.983	ug/l	4.30	4,080.56	4.164E-02	Pulse	0.30	3
V			2	298.726	ug/l	3.39	22,608.37	2.308E-01	Pulse	0.30	3
Cr			2	177.564	ug/l	3.37	17,026.22	1.738E-01	Pulse	0.30	3
Mn			2	4207.755	ug/l	0.85	211,913.34	2.163E+00	Pulse	0.30	3
Fe			2	159599.062	ug/l	1.22	12,591,731.72	1.285E+02	Analog	0.30	3
Co			2	53.099	ug/l	4.65	8,357.14	8.534E-02	Pulse	0.30	3
Ni			2	105.691	ug/l	5.38	5,259.79	5.371E-02	Pulse	0.30	3
Cu			2	75.663	ug/l	3.97	9,720.75	9.924E-02	Pulse	0.30	3
Zn			2	567.845	ug/l	3.69	16,643.04	1.699E-01	Pulse	0.30	3
As			2	41.183	ug/l	2.24	421.01	4.297E-03	Pulse	1.00	3
Cd			2	0.731	ug/l	57.54	26.62	4.081E-05	Pulse	0.30	3
Sn			2	25.947	ug/l	8.06	1,611.22	2.469E-03	Pulse	0.30	3
Se			3	5.825	ug/l	13.60	12.33	1.421E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,859,278.31	0.67	95.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,446,377.73	0.20	91.9	Analog	0.10	3
1	Ge		503,589.11	1.13	93.5	Pulse	0.10	3
1	Ge		688,935.54	0.99	93.2	Pulse	0.10	3
1	Rh		3,157,308.08	0.52	90.2	Analog	0.10	3
1	In		3,225,806.30	0.90	91.1	Analog	0.10	3
1	Tb		4,354,947.43	1.11	91.4	Analog	0.10	3
1	Ho		4,281,156.19	0.92	91.6	Analog	0.10	3
1	Bi		2,691,284.86	0.91	90.8	Analog	0.10	3
2	Sc		97,963.17	1.30	91.0	Pulse	0.30	3
2	Ge		64,810.20	0.53	94.1	Pulse	0.30	3
2	Ge		98,059.12	0.74	94.3	Pulse	0.30	3
2	Rh		1,590,888.17	0.50	90.8	Analog	0.30	3
2	In		652,773.69	0.29	94.4	Pulse	0.30	3
2	Tb		2,207,596.37	1.31	93.9	Analog	0.30	3
2	Ho		2,235,163.31	0.38	94.1	Analog	0.30	3
2	Bi		1,551,357.51	0.09	95.1	Analog	0.30	3
3	Sc		83,573.32	0.53	87.9	Pulse	0.30	3
3	Ge		57,441.77	0.67	90.4	Pulse	0.30	3
3	Ge		86,785.95	0.67	90.1	Pulse	0.30	3
3	Rh		936,470.03	0.18	90.5	Pulse	0.30	3
3	Tb		1,620,408.96	1.19	92.2	Analog	0.30	3

Quantitation Report

File Name	080SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:25
Sample Name	JD49491-3
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.504	ug/l	0.73	4,177.90	1.482E-03	Pulse	0.25	3
B			1	24.138	ug/l	2.15	17,936.40	6.363E-03	Pulse	0.15	3
Ca			1	7882.178	ug/l	0.39	700,637.31	2.775E-01	Pulse	0.10	3
Sr			1	77.061	ug/l	0.94	302,892.40	9.890E-02	Pulse	0.10	3
Mo			1	6.030	ug/l	4.01	4,714.23	1.539E-03	Pulse	0.10	3
Ag			1	0.522	ug/l	11.68	1,000.07	3.170E-04	Pulse	0.10	3
Sn			1	25.582	ug/l	1.21	33,285.95	1.055E-02	Pulse	0.10	3
Sb			1	1.779	ug/l	10.39	2,960.40	6.969E-04	Pulse	0.10	3
Ba			1	637.331	ug/l	0.68	369,288.25	8.693E-02	Pulse	0.10	3
Tl			1	1.820	ug/l	4.98	6,428.38	2.461E-03	Pulse	0.10	3
Pb			1	314.959	ug/l	1.01	382,651.99	1.465E-01	Pulse	0.10	3
Pb			1	294.302	ug/l	0.49	313,016.48	1.198E-01	Pulse	0.10	3
Pb			1	307.012	ug/l	0.87	1,481,877.00	5.672E-01	Pulse	0.10	3
Na			2	550.301	ug/l	0.70	52,785.84	5.205E-01	Pulse	0.30	3
Mg			2	11013.826	ug/l	0.85	474,015.55	4.674E+00	Pulse	0.30	3
Al			2	120455.253	ug/l	1.70	1,801,999.44	1.777E+01	Analog	0.30	3
K			2	6241.316	ug/l	1.38	203,499.17	2.006E+00	Pulse	0.30	3
Ca			2	8226.117	ug/l	3.36	13,396.65	1.321E-01	Pulse	0.30	3
Ti			2	1370.875	ug/l	2.74	15,747.80	1.553E-01	Pulse	0.30	3
V			2	264.465	ug/l	1.59	102,355.21	1.009E+00	Pulse	0.30	3
Cr			2	150.055	ug/l	1.90	73,658.89	7.263E-01	Pulse	0.30	3
Mn			2	6828.711	ug/l	0.89	1,779,141.66	1.754E+01	Analog	0.30	3
Fe			2	128635.375	ug/l	1.22	52,463,942.36	5.173E+02	Analog	0.30	3
Co			2	56.525	ug/l	1.50	45,874.66	4.523E-01	Pulse	0.30	3
Ni			2	73.333	ug/l	0.84	16,617.39	1.638E-01	Pulse	0.30	3
Cu			2	78.520	ug/l	1.76	47,191.95	4.653E-01	Pulse	0.30	3
Zn			2	620.430	ug/l	1.01	63,685.06	6.279E-01	Pulse	0.30	3
As			2	42.783	ug/l	3.74	2,181.15	2.151E-02	Pulse	1.00	3
Cd			2	1.594	ug/l	17.01	226.39	3.601E-04	Pulse	0.30	3
Sn			2	27.929	ug/l	1.99	8,185.54	1.302E-02	Pulse	0.30	3
Se			3	7.149	ug/l	3.40	56.27	6.596E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,818,452.99	0.72	94.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,524,812.72	0.88	94.8	Analog	0.10	3
1	Ge		500,164.32	0.36	92.9	Pulse	0.10	3
1	Ge		672,069.99	1.43	90.9	Pulse	0.10	3
1	Rh		3,062,773.39	0.29	87.5	Analog	0.10	3
1	In		3,154,466.45	0.46	89.1	Analog	0.10	3
1	Tb		4,248,131.60	0.10	89.2	Analog	0.10	3
1	Ho		4,257,500.67	0.07	91.1	Analog	0.10	3
1	Bi		2,612,520.22	0.25	88.1	Analog	0.10	3
2	Sc		101,423.44	0.92	94.3	Pulse	0.30	3
2	Ge		63,940.09	1.07	92.9	Pulse	0.30	3
2	Ge		95,299.57	1.68	91.6	Pulse	0.30	3
2	Rh		1,551,385.35	1.54	88.6	Analog	0.30	3
2	In		628,669.07	0.16	90.9	Pulse	0.30	3
2	Tb		2,135,367.76	0.93	90.8	Analog	0.30	3
2	Ho		2,158,945.47	1.30	90.9	Analog	0.30	3
2	Bi		1,473,910.32	0.65	90.4	Analog	0.30	3
3	Sc		88,223.67	1.40	92.8	Pulse	0.30	3
3	Ge		56,617.70	0.11	89.1	Pulse	0.30	3
3	Ge		85,289.26	1.45	88.5	Pulse	0.30	3
3	Rh		910,323.23	0.53	88.0	Pulse	0.30	3
3	Tb		1,589,375.67	0.41	90.5	Analog	0.30	3

Quantitation Report

File Name	081SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:29
Sample Name	JD49491-3
Sample Type	Sample
Comment	100X
Prep Dilution	100.000
Auto Dilution	N/A
Total Dilution	100.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	1.656	ug/l	46.44	508.02	1.795E-04	Pulse	0.25	3
B			1	-24.068	ug/l	-8.64	3,462.67	1.225E-03	Pulse	0.15	3
Ca			1	7168.671	ug/l	3.32	70,620.21	2.962E-02	Pulse	0.10	3
Sr			1	69.855	ug/l	1.55	28,616.36	9.119E-03	Pulse	0.10	3
Mo			1	3.591	ug/l	26.50	346.68	1.105E-04	Pulse	0.10	3
Ag			1	0.500	ug/l	38.07	113.34	3.583E-05	Pulse	0.10	3
Sn			1	14.975	ug/l	13.43	3,357.16	1.060E-03	Pulse	0.10	3
Sb			1	0.407	ug/l	74.44	370.02	8.586E-05	Pulse	0.10	3
Ba			1	586.454	ug/l	3.61	34,746.81	8.064E-03	Pulse	0.10	3
Tl			1	1.289	ug/l	11.35	603.37	2.278E-04	Pulse	0.10	3
Pb			1	292.587	ug/l	1.44	37,836.06	1.429E-02	Pulse	0.10	3
Pb			1	271.333	ug/l	1.58	30,622.51	1.156E-02	Pulse	0.10	3
Pb			1	280.261	ug/l	0.46	144,055.63	5.439E-02	Pulse	0.10	3
Na			2	460.103	ug/l	4.82	7,345.01	7.742E-02	Pulse	0.30	3
Mg			2	11097.129	ug/l	0.92	45,289.30	4.773E-01	Pulse	0.30	3
Al			2	117577.689	ug/l	1.65	164,818.55	1.737E+00	Pulse	0.30	3
K			2	6366.295	ug/l	1.91	29,934.64	3.155E-01	Pulse	0.30	3
Ca			2	8168.604	ug/l	3.08	1,312.29	1.383E-02	Pulse	0.30	3
Ti			2	1293.698	ug/l	4.52	1,406.74	1.482E-02	Pulse	0.30	3
V			2	253.661	ug/l	1.52	9,498.37	1.001E-01	Pulse	0.30	3
Cr			2	149.155	ug/l	2.29	7,067.84	7.449E-02	Pulse	0.30	3
Mn			2	6804.754	ug/l	0.22	166,009.13	1.750E+00	Pulse	0.30	3
Fe			2	133997.173	ug/l	0.11	5,133,656.32	5.410E+01	Analog	0.30	3
Co			2	56.272	ug/l	0.57	4,310.09	4.542E-02	Pulse	0.30	3
Ni			2	72.796	ug/l	9.68	2,321.31	2.447E-02	Pulse	0.30	3
Cu			2	74.070	ug/l	1.85	5,182.00	5.462E-02	Pulse	0.30	3
Zn			2	647.754	ug/l	1.50	11,940.03	1.258E-01	Pulse	0.30	3
As			2	40.759	ug/l	3.91	211.00	2.224E-03	Pulse	1.00	3
Cd			2	1.650	ug/l	9.48	28.87	4.497E-05	Pulse	0.30	3
Sn			2	29.747	ug/l	1.78	925.59	1.441E-03	Pulse	0.30	3
Se			3	5.028	ug/l	52.61	7.27	8.481E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,827,631.17	1.40	94.9	Analog	0.10	3
1	Sc		2,384,881.27	2.56	89.6	Analog	0.10	3
1	Ge		493,913.34	1.28	91.7	Pulse	0.10	3

Quantitation Report

1	Ge		683,036.76	1.08	92.4	Pulse	0.10	3
1	Rh		3,138,004.54	0.30	89.7	Analog	0.10	3
1	In		3,167,060.21	0.66	89.5	Analog	0.10	3
1	Tb		4,309,604.31	0.86	90.5	Analog	0.10	3
1	Ho		4,243,651.60	0.92	90.8	Analog	0.10	3
1	Bi		2,648,422.77	0.30	89.4	Analog	0.10	3
2	Sc		94,885.41	0.82	88.2	Pulse	0.30	3
2	Ge		63,625.58	1.03	92.4	Pulse	0.30	3
2	Ge		96,472.00	0.86	92.8	Pulse	0.30	3
2	Rh		1,603,676.47	0.80	91.6	Analog	0.30	3
2	In		642,305.68	1.07	92.9	Pulse	0.30	3
2	Tb		2,183,956.44	0.26	92.9	Analog	0.30	3
2	Ho		2,193,673.59	0.46	92.3	Analog	0.30	3
2	Bi		1,519,990.39	0.10	93.2	Analog	0.30	3
3	Sc		80,163.71	0.47	84.3	Pulse	0.30	3
3	Ge		56,126.11	0.56	88.3	Pulse	0.30	3
3	Ge		85,791.71	1.01	89.0	Pulse	0.30	3
3	Rh		925,998.26	0.42	89.5	Pulse	0.30	3
3	Tb		1,596,249.55	0.57	90.9	Analog	0.30	3

Quantitation Report

File Name	082SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:33
Sample Name	JD49491-5
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.477	ug/l	8.43	4,900.78	1.775E-03	Pulse	0.25	3
B			1	24.205	ug/l	7.35	17,613.98	6.376E-03	Pulse	0.15	3
Ca			1	5119.120	ug/l	1.49	456,932.94	1.819E-01	Pulse	0.10	3
Sr			1	66.061	ug/l	1.18	255,460.83	8.480E-02	Pulse	0.10	3
Mo			1	5.030	ug/l	4.98	3,877.28	1.287E-03	Pulse	0.10	3
Ag			1	0.480	ug/l	9.59	906.73	2.917E-04	Pulse	0.10	3
Sn			1	23.639	ug/l	0.68	30,410.35	9.786E-03	Pulse	0.10	3
Sb			1	1.935	ug/l	8.10	3,157.10	7.514E-04	Pulse	0.10	3
Ba			1	717.436	ug/l	1.37	411,150.66	9.785E-02	Pulse	0.10	3
Tl			1	1.724	ug/l	11.29	6,018.15	2.334E-03	Pulse	0.10	3
Pb			1	404.762	ug/l	1.59	484,595.49	1.880E-01	Pulse	0.10	3
Pb			1	380.529	ug/l	1.25	398,866.96	1.548E-01	Pulse	0.10	3
Pb			1	394.701	ug/l	1.22	1,877,464.86	7.284E-01	Pulse	0.10	3
Na			2	745.385	ug/l	0.79	69,698.36	6.919E-01	Pulse	0.30	3
Mg			2	10354.437	ug/l	0.81	442,696.39	4.394E+00	Pulse	0.30	3
Al			2	114850.287	ug/l	0.37	1,706,756.36	1.694E+01	Analog	0.30	3
K			2	5680.575	ug/l	1.59	185,090.20	1.837E+00	Pulse	0.30	3
Ca			2	5403.419	ug/l	4.47	8,767.95	8.705E-02	Pulse	0.30	3
Ti			2	1339.472	ug/l	1.85	15,285.84	1.517E-01	Pulse	0.30	3
V			2	274.535	ug/l	0.96	105,529.05	1.048E+00	Pulse	0.30	3
Cr			2	147.200	ug/l	1.11	71,781.79	7.126E-01	Pulse	0.30	3
Mn			2	2041.494	ug/l	0.91	528,440.35	5.246E+00	Pulse	0.30	3
Fe			2	123176.513	ug/l	1.33	49,902,132.46	4.954E+02	Analog	0.30	3
Co			2	48.598	ug/l	2.68	39,184.35	3.890E-01	Pulse	0.30	3
Ni			2	77.008	ug/l	2.28	17,285.85	1.716E-01	Pulse	0.30	3
Cu			2	83.373	ug/l	2.25	49,699.42	4.934E-01	Pulse	0.30	3
Zn			2	444.935	ug/l	0.59	47,283.52	4.694E-01	Pulse	0.30	3
As			2	38.545	ug/l	1.42	1,954.12	1.940E-02	Pulse	1.00	3
Cd			2	0.705	ug/l	6.23	102.01	1.642E-04	Pulse	0.30	3
Sn			2	27.471	ug/l	1.16	7,962.11	1.281E-02	Pulse	0.30	3
Se			3	7.121	ug/l	4.88	55.60	6.572E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,765,039.18	2.76	92.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,511,983.19	0.70	94.3	Analog	0.10	3
1	Ge		487,765.54	1.37	90.6	Pulse	0.10	3
1	Ge		665,595.54	1.54	90.0	Pulse	0.10	3
1	Rh		3,012,405.16	0.24	86.1	Analog	0.10	3
1	In		3,107,576.59	0.63	87.8	Analog	0.10	3
1	Tb		4,202,229.83	1.07	88.2	Analog	0.10	3
1	Ho		4,199,621.81	1.01	89.9	Analog	0.10	3
1	Bi		2,577,634.23	0.90	87.0	Analog	0.10	3
2	Sc		100,742.13	0.58	93.6	Pulse	0.30	3
2	Ge		63,215.14	0.80	91.8	Pulse	0.30	3
2	Ge		93,637.87	1.23	90.0	Pulse	0.30	3
2	Rh		1,526,426.71	0.40	87.2	Analog	0.30	3
2	In		621,696.55	1.07	89.9	Pulse	0.30	3
2	Tb		2,114,989.64	0.29	90.0	Analog	0.30	3
2	Ho		2,157,268.25	1.53	90.8	Analog	0.30	3
2	Bi		1,478,038.97	0.78	90.6	Analog	0.30	3
3	Sc		87,878.77	0.66	92.4	Pulse	0.30	3
3	Ge		56,952.39	0.86	89.6	Pulse	0.30	3
3	Ge		84,604.44	1.06	87.8	Pulse	0.30	3
3	Rh		908,125.49	0.61	87.8	Pulse	0.30	3
3	Tb		1,595,383.96	0.83	90.8	Analog	0.30	3

Quantitation Report

File Name	083SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:37
Sample Name	JD49491-5
Sample Type	Sample
Comment	20X
Prep Dilution	20.000
Auto Dilution	N/A
Total Dilution	20.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.462	ug/l	6.65	2,228.19	7.996E-04	Pulse	0.25	3
B			1	15.361	ug/l	6.49	8,855.88	3.178E-03	Pulse	0.15	3
Ca			1	4855.566	ug/l	3.21	219,117.67	8.881E-02	Pulse	0.10	3
Sr			1	60.023	ug/l	1.03	119,928.79	3.862E-02	Pulse	0.10	3
Mo			1	4.392	ug/l	10.60	1,780.19	5.732E-04	Pulse	0.10	3
Ag			1	0.462	ug/l	7.65	456.69	1.437E-04	Pulse	0.10	3
Sn			1	21.765	ug/l	3.58	15,124.39	4.759E-03	Pulse	0.10	3
Sb			1	1.765	ug/l	4.68	1,626.81	3.817E-04	Pulse	0.10	3
Ba			1	675.394	ug/l	1.36	196,435.00	4.609E-02	Pulse	0.10	3
Tl			1	1.687	ug/l	5.94	3,097.10	1.171E-03	Pulse	0.10	3
Pb			1	380.006	ug/l	1.08	234,393.33	8.866E-02	Pulse	0.10	3
Pb			1	353.369	ug/l	1.92	190,776.27	7.216E-02	Pulse	0.10	3
Pb			1	367.305	ug/l	0.69	900,136.72	3.405E-01	Pulse	0.10	3
Na			2	769.547	ug/l	3.87	36,466.75	3.750E-01	Pulse	0.30	3
Mg			2	10341.144	ug/l	0.48	213,744.63	2.198E+00	Pulse	0.30	3
Al			2	110532.353	ug/l	1.07	792,925.09	8.154E+00	Pulse	0.30	3
K			2	5788.429	ug/l	3.77	96,900.86	9.966E-01	Pulse	0.30	3
Ca			2	5320.633	ug/l	3.66	4,206.13	4.326E-02	Pulse	0.30	3
Ti			2	1337.861	ug/l	8.29	7,377.49	7.587E-02	Pulse	0.30	3
V			2	272.031	ug/l	1.07	50,649.34	5.208E-01	Pulse	0.30	3
Cr			2	145.248	ug/l	2.53	34,311.18	3.528E-01	Pulse	0.30	3
Mn			2	2039.467	ug/l	1.87	254,876.84	2.621E+00	Pulse	0.30	3
Fe			2	122924.676	ug/l	1.14	24,048,402.38	2.473E+02	Analog	0.30	3
Co			2	48.088	ug/l	1.11	18,735.92	1.927E-01	Pulse	0.30	3
Ni			2	74.796	ug/l	2.43	8,558.99	8.802E-02	Pulse	0.30	3
Cu			2	83.954	ug/l	3.45	24,725.39	2.543E-01	Pulse	0.30	3
Zn			2	456.399	ug/l	1.70	26,597.23	2.735E-01	Pulse	0.30	3
As			2	38.550	ug/l	2.11	952.70	9.797E-03	Pulse	1.00	3
Cd			2	0.426	ug/l	39.14	35.45	5.560E-05	Pulse	0.30	3
Sn			2	25.282	ug/l	2.11	3,780.49	5.926E-03	Pulse	0.30	3
Se			3	6.102	ug/l	7.11	26.13	3.052E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,787,598.20	1.14	93.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,468,297.36	2.09	92.7	Analog	0.10	3
1	Ge		492,959.34	0.03	91.6	Pulse	0.10	3
1	Ge		678,075.74	1.01	91.7	Pulse	0.10	3
1	Rh		3,105,432.97	0.58	88.8	Analog	0.10	3
1	In		3,178,308.46	0.64	89.8	Analog	0.10	3
1	Tb		4,261,598.68	0.10	89.4	Analog	0.10	3
1	Ho		4,222,459.10	0.64	90.4	Analog	0.10	3
1	Bi		2,643,820.38	0.09	89.2	Analog	0.10	3
2	Sc		97,247.90	0.64	90.4	Pulse	0.30	3
2	Ge		63,700.33	0.48	92.5	Pulse	0.30	3
2	Ge		95,316.45	0.20	91.6	Pulse	0.30	3
2	Rh		1,564,633.44	1.33	89.3	Analog	0.30	3
2	In		637,904.00	0.34	92.2	Pulse	0.30	3
2	Tb		2,170,725.81	0.48	92.3	Analog	0.30	3
2	Ho		2,198,912.69	1.43	92.6	Analog	0.30	3
2	Bi		1,519,231.71	0.50	93.2	Analog	0.30	3
3	Sc		83,576.75	0.83	87.9	Pulse	0.30	3
3	Ge		56,679.03	0.49	89.2	Pulse	0.30	3
3	Ge		85,626.62	1.50	88.9	Pulse	0.30	3
3	Rh		917,360.24	0.24	88.7	Pulse	0.30	3
3	Tb		1,603,458.02	0.77	91.3	Analog	0.30	3

Quantitation Report

File Name	084SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:40
Sample Name	JD49491-7
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	7.952	ug/l	1.31	6,868.13	2.518E-03	Pulse	0.25	3
B			1	21.646	ug/l	1.30	16,043.48	5.881E-03	Pulse	0.15	3
Ca			1	7191.501	ug/l	0.79	642,892.28	2.536E-01	Pulse	0.10	3
Sr			1	69.695	ug/l	0.47	271,229.94	8.946E-02	Pulse	0.10	3
Mo			1	5.716	ug/l	6.53	4,427.45	1.460E-03	Pulse	0.10	3
Ag			1	0.532	ug/l	5.59	996.74	3.229E-04	Pulse	0.10	3
Sn			1	26.135	ug/l	1.88	33,242.70	1.077E-02	Pulse	0.10	3
Sb			1	2.515	ug/l	2.56	4,044.02	9.554E-04	Pulse	0.10	3
Ba			1	908.398	ug/l	0.71	524,275.43	1.239E-01	Pulse	0.10	3
Tl			1	1.654	ug/l	5.70	5,801.35	2.242E-03	Pulse	0.10	3
Pb			1	327.981	ug/l	1.09	394,650.72	1.525E-01	Pulse	0.10	3
Pb			1	305.930	ug/l	1.18	322,275.73	1.245E-01	Pulse	0.10	3
Pb			1	318.484	ug/l	0.80	1,522,559.57	5.883E-01	Pulse	0.10	3
Na			2	532.357	ug/l	1.87	51,362.33	5.047E-01	Pulse	0.30	3
Mg			2	11933.431	ug/l	1.38	515,288.97	5.064E+00	Pulse	0.30	3
Al			2	121600.751	ug/l	1.82	1,825,329.65	1.794E+01	Analog	0.30	3
K			2	5739.461	ug/l	4.25	188,738.40	1.855E+00	Pulse	0.30	3
Ca			2	7437.287	ug/l	1.47	12,163.43	1.195E-01	Pulse	0.30	3
Ti			2	1571.447	ug/l	1.33	18,115.58	1.780E-01	Pulse	0.30	3
V			2	332.566	ug/l	1.94	129,055.15	1.268E+00	Pulse	0.30	3
Cr			2	165.665	ug/l	0.80	81,583.79	8.016E-01	Pulse	0.30	3
Mn			2	12722.130	ug/l	1.77	3,325,692.51	3.268E+01	Analog	0.30	3
Fe			2	170781.819	ug/l	1.11	69,886,412.78	6.867E+02	Analog	0.30	3
Co			2	99.828	ug/l	1.53	81,264.37	7.986E-01	Pulse	0.30	3
Ni			2	94.825	ug/l	0.33	21,290.56	2.092E-01	Pulse	0.30	3
Cu			2	98.526	ug/l	1.39	59,114.64	5.809E-01	Pulse	0.30	3
Zn			2	476.304	ug/l	2.64	50,645.72	4.977E-01	Pulse	0.30	3
As			2	57.568	ug/l	1.71	2,938.61	2.888E-02	Pulse	1.00	3
Cd			2	1.390	ug/l	7.02	197.50	3.151E-04	Pulse	0.30	3
Sn			2	28.237	ug/l	2.80	8,251.14	1.316E-02	Pulse	0.30	3
Se			3	8.978	ug/l	6.46	69.00	8.177E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,727,982.30	0.31	91.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,535,171.63	1.28	95.2	Analog	0.10	3
1	Ge		493,947.23	1.01	91.8	Pulse	0.10	3
1	Ge		666,940.38	0.59	90.2	Pulse	0.10	3
1	Rh		3,031,878.60	0.52	86.7	Analog	0.10	3
1	In		3,086,830.96	0.34	87.2	Analog	0.10	3
1	Tb		4,232,540.14	0.74	88.8	Analog	0.10	3
1	Ho		4,196,096.40	0.15	89.8	Analog	0.10	3
1	Bi		2,587,971.52	0.54	87.3	Analog	0.10	3
2	Sc		101,775.65	1.15	94.6	Pulse	0.30	3
2	Ge		64,074.04	0.81	93.0	Pulse	0.30	3
2	Ge		94,685.96	0.56	91.0	Pulse	0.30	3
2	Rh		1,522,215.81	0.29	86.9	Analog	0.30	3
2	In		626,871.12	0.17	90.7	Pulse	0.30	3
2	Tb		2,168,169.29	0.41	92.2	Analog	0.30	3
2	Ho		2,179,047.14	0.99	91.7	Analog	0.30	3
2	Bi		1,464,751.30	1.17	89.8	Analog	0.30	3
3	Sc		89,143.24	0.59	93.8	Pulse	0.30	3
3	Ge		57,068.18	0.60	89.8	Pulse	0.30	3
3	Ge		84,381.12	0.08	87.6	Pulse	0.30	3
3	Rh		910,996.52	0.15	88.1	Pulse	0.30	3
3	Tb		1,591,260.11	0.83	90.6	Analog	0.30	3

Quantitation Report

File Name	085_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:44
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	49.960	ug/l	1.03	408,200.48	1.502E-01	Pulse	0.25	3
B			1	94.099	ug/l	2.44	499,798.58	1.839E-01	Pulse	0.15	3
Ca			1	5052.916	ug/l	0.98	4,240,144.73	1.753E+00	Analog	0.10	3
Sr			1	51.212	ug/l	0.61	1,950,257.83	6.563E-01	Analog	0.10	3
Mo			1	50.444	ug/l	0.80	377,725.47	1.271E-01	Pulse	0.10	3
Ag			1	52.017	ug/l	0.37	939,789.23	3.098E-01	Pulse	0.10	3
Sn			1	48.632	ug/l	0.26	582,927.01	1.921E-01	Pulse	0.10	3
Sb			1	50.363	ug/l	0.90	744,620.17	1.771E-01	Pulse	0.10	3
Ba			1	49.305	ug/l	1.45	282,900.68	6.727E-02	Pulse	0.10	3
Tl			1	51.200	ug/l	0.67	1,722,730.91	6.763E-01	Analog	0.10	3
Pb			1	49.723	ug/l	1.38	587,926.27	2.308E-01	Pulse	0.10	3
Pb			1	48.176	ug/l	1.66	498,674.81	1.958E-01	Pulse	0.10	3
Pb			1	49.867	ug/l	0.69	2,342,319.50	9.195E-01	Analog	0.10	3
Na			2	5125.002	ug/l	1.90	4,421,771.91	4.506E+01	Analog	0.30	3
Mg			2	5223.718	ug/l	2.56	2,172,352.28	2.214E+01	Analog	0.30	3
Al			2	5033.749	ug/l	1.73	728,787.72	7.427E+00	Pulse	0.30	3
K			2	5222.210	ug/l	1.45	1,558,151.05	1.588E+01	Analog	0.30	3
Ca			2	5310.373	ug/l	0.66	83,275.27	8.485E-01	Pulse	0.30	3
Ti			2	51.587	ug/l	1.43	5,746.62	5.855E-02	Pulse	0.30	3
V			2	50.564	ug/l	2.78	188,995.51	1.926E+00	Pulse	0.30	3
Cr			2	49.962	ug/l	2.25	236,708.77	2.412E+00	Pulse	0.30	3
Mn			2	49.549	ug/l	1.61	125,055.49	1.274E+00	Pulse	0.30	3
Fe			2	5175.747	ug/l	2.28	20,437,148.63	2.083E+02	Analog	0.30	3
Co			2	49.106	ug/l	2.08	385,270.93	3.926E+00	Pulse	0.30	3
Ni			2	49.048	ug/l	1.71	102,448.95	1.044E+00	Pulse	0.30	3
Cu			2	48.735	ug/l	1.94	277,358.17	2.827E+00	Pulse	0.30	3
Zn			2	47.799	ug/l	2.30	48,986.28	4.992E-01	Pulse	0.30	3
As			2	50.728	ug/l	1.33	24,820.79	2.529E-01	Pulse	1.00	3
Cd			2	49.339	ug/l	0.92	68,035.91	1.088E-01	Pulse	0.30	3
Sn			2	50.454	ug/l	0.57	146,393.06	2.342E-01	Pulse	0.30	3
Se			3	202.349	ug/l	0.37	15,205.18	1.750E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,718,806.72	1.16	91.2	Analog	0.10	3
1	Sc		2,419,182.57	1.18	90.9	Analog	0.10	3
1	Ge		481,165.42	0.77	89.4	Pulse	0.10	3

Quantitation Report

1	Ge		669,693.72	1.43	90.6	Pulse	0.10	3
1	Rh		2,971,806.10	0.56	84.9	Analog	0.10	3
1	In		3,033,938.41	0.73	85.7	Analog	0.10	3
1	Tb		4,205,634.21	0.21	88.3	Analog	0.10	3
1	Ho		4,143,896.40	0.71	88.7	Analog	0.10	3
1	Bi		2,547,258.76	0.51	85.9	Analog	0.10	3
2	Sc		98,147.61	1.94	91.2	Pulse	0.30	3
2	Ge		62,914.96	1.11	91.4	Pulse	0.30	3
2	Ge		94,880.35	0.52	91.2	Pulse	0.30	3
2	Rh		1,521,309.77	1.18	86.9	Analog	0.30	3
2	In		625,160.60	0.95	90.4	Pulse	0.30	3
2	Tb		2,152,577.83	0.47	91.6	Analog	0.30	3
2	Ho		2,182,792.20	0.10	91.9	Analog	0.30	3
2	Bi		1,457,992.37	0.18	89.4	Analog	0.30	3
3	Sc		87,811.72	1.63	92.4	Pulse	0.30	3
3	Ge		57,120.71	0.17	89.9	Pulse	0.30	3
3	Ge		86,868.53	0.35	90.1	Pulse	0.30	3
3	Rh		919,575.94	0.47	88.9	Pulse	0.30	3
3	Tb		1,621,957.23	0.38	92.3	Analog	0.30	3

Quantitation Report

File Name	086BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:48
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.014	ug/l	-44.51	242.67	8.762E-05	Pulse	0.25	3
B			1	1.124	ug/l	17.95	10,679.20	3.867E-03	Pulse	0.15	3
Ca			1	-3.894	ug/l	-20.90	8,402.46	3.475E-03	Pulse	0.10	3
Sr			1	-0.002	ug/l	-57.88	443.36	1.410E-04	Pulse	0.10	3
Mo			1	0.016	ug/l	40.44	186.68	5.935E-05	Pulse	0.10	3
Ag			1	0.003	ug/l	17.87	80.00	2.531E-05	Pulse	0.10	3
Sn			1	0.138	ug/l	22.60	3,207.13	1.013E-03	Pulse	0.10	3
Sb			1	0.015	ug/l	41.09	523.36	1.229E-04	Pulse	0.10	3
Ba			1	-0.030	ug/l	-31.99	130.00	3.054E-05	Pulse	0.10	3
Tl			1	0.026	ug/l	12.98	1,040.08	4.007E-04	Pulse	0.10	3
Pb			1	0.039	ug/l	42.55	2,413.63	9.276E-04	Pulse	0.10	3
Pb			1	0.041	ug/l	20.19	1,913.53	7.362E-04	Pulse	0.10	3
Pb			1	0.033	ug/l	23.78	9,078.12	3.490E-03	Pulse	0.10	3
Na			2	-0.668	ug/l	-18.86	3,035.87	3.113E-02	Pulse	0.30	3
Mg			2	-0.748	ug/l	-12.69	385.56	3.957E-03	Pulse	0.30	3
Al			2	0.345	ug/l	110.63	351.12	3.598E-03	Pulse	0.30	3
K			2	4.951	ug/l	28.78	13,484.43	1.383E-01	Pulse	0.30	3
Ca			2	-2.084	ug/l	-36.11	44.44	4.560E-04	Pulse	0.30	3
Ti			2	0.046	ug/l	281.17	23.33	2.384E-04	Pulse	0.30	3
V			2	-0.003	ug/l	-389.32	345.57	3.542E-03	Pulse	0.30	3
Cr			2	-0.019	ug/l	-15.56	159.34	1.634E-03	Pulse	0.30	3
Mn			2	0.010	ug/l	104.43	186.67	1.913E-03	Pulse	0.30	3
Fe			2	16.622	ug/l	19.05	88,779.27	9.097E-01	Pulse	0.30	3
Co			2	-0.002	ug/l	-78.12	28.65	2.946E-04	Pulse	0.30	3
Ni			2	-0.072	ug/l	-26.42	740.03	7.588E-03	Pulse	0.30	3
Cu			2	-0.058	ug/l	-8.32	827.81	8.489E-03	Pulse	0.30	3
Zn			2	-0.818	ug/l	-8.65	5,839.99	5.990E-02	Pulse	0.30	3
As			2	0.005	ug/l	164.46	21.33	2.187E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.007	ug/l	68.63	15.54	2.401E-05	Pulse	0.30	3
Sn			2	0.426	ug/l	10.52	1,317.85	2.039E-03	Pulse	0.30	3
Se			3	0.162	ug/l	13.27	15.80	1.811E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,764,619.44	1.56	92.8	Analog	0.10	3
1	Sc		2,421,574.86	2.89	91.0	Analog	0.10	3
1	Ge		492,257.31	1.12	91.4	Pulse	0.10	3
1	Ge		679,951.16	1.64	92.0	Pulse	0.10	3
1	Rh		3,144,929.33	0.66	89.9	Analog	0.10	3
1	In		3,163,379.57	1.12	89.4	Analog	0.10	3
1	Tb		4,260,836.29	1.13	89.4	Analog	0.10	3
1	Ho		4,233,108.27	1.17	90.6	Analog	0.10	3
1	Bi		2,599,793.66	1.99	87.7	Analog	0.10	3
2	Sc		97,497.29	1.04	90.6	Pulse	0.30	3
2	Ge		63,552.96	0.17	92.3	Pulse	0.30	3
2	Ge		96,106.33	0.56	92.4	Pulse	0.30	3
2	Rh		1,617,525.74	0.87	92.4	Analog	0.30	3
2	In		646,103.49	0.56	93.4	Pulse	0.30	3
2	Tb		2,171,508.59	0.86	92.4	Analog	0.30	3
2	Ho		2,204,518.17	0.67	92.8	Analog	0.30	3
2	Bi		1,504,269.32	1.28	92.2	Analog	0.30	3
3	Sc		85,311.10	1.27	89.7	Pulse	0.30	3
3	Ge		57,245.46	0.86	90.1	Pulse	0.30	3
3	Ge		87,249.49	0.29	90.5	Pulse	0.30	3
3	Rh		951,226.46	0.40	91.9	Pulse	0.30	3
3	Tb		1,630,409.10	0.59	92.8	Analog	0.30	3

Quantitation Report

File Name	087SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:51
Sample Name	JD49491-7
Sample Type	Sample
Comment	200X
Prep Dilution	200.000
Auto Dilution	N/A
Total Dilution	200.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	1.379	ug/l	46.78	436.01	1.505E-04	Pulse	0.25	3
B			1	-12.269	ug/l	-68.71	4,554.06	1.572E-03	Pulse	0.15	3
Ca			1	5913.393	ug/l	6.10	36,534.18	1.505E-02	Pulse	0.10	3
Sr			1	58.622	ug/l	6.68	12,752.17	3.925E-03	Pulse	0.10	3
Mo			1	5.746	ug/l	33.91	300.01	9.237E-05	Pulse	0.10	3
Ag			1	0.613	ug/l	49.75	80.00	2.429E-05	Pulse	0.10	3
Sn			1	9.134	ug/l	51.36	2,140.24	6.498E-04	Pulse	0.10	3
Sb			1	-0.136	ug/l	-173.36	306.68	6.918E-05	Pulse	0.10	3
Ba			1	776.611	ug/l	3.82	23,795.56	5.364E-03	Pulse	0.10	3
Tl			1	1.156	ug/l	22.40	366.69	1.339E-04	Pulse	0.10	3
Pb			1	283.249	ug/l	1.77	19,997.49	7.301E-03	Pulse	0.10	3
Pb			1	266.462	ug/l	1.26	16,342.90	5.967E-03	Pulse	0.10	3
Pb			1	276.070	ug/l	1.00	77,368.33	2.825E-02	Pulse	0.10	3
Na			2	338.888	ug/l	12.64	5,086.48	5.188E-02	Pulse	0.30	3
Mg			2	11289.532	ug/l	1.51	24,138.50	2.463E-01	Pulse	0.30	3
Al			2	113105.194	ug/l	2.63	82,035.51	8.372E-01	Pulse	0.30	3
K			2	6528.247	ug/l	6.55	21,751.05	2.219E-01	Pulse	0.30	3
Ca			2	6939.160	ug/l	10.20	620.02	6.327E-03	Pulse	0.30	3
Ti			2	1512.172	ug/l	8.28	856.70	8.741E-03	Pulse	0.30	3
V			2	306.816	ug/l	0.07	6,075.62	6.199E-02	Pulse	0.30	3
Cr			2	157.778	ug/l	0.56	3,979.51	4.060E-02	Pulse	0.30	3
Mn			2	12404.989	ug/l	0.97	156,312.02	1.595E+00	Pulse	0.30	3
Fe			2	170650.646	ug/l	0.66	3,385,278.62	3.454E+01	Analog	0.30	3
Co			2	97.643	ug/l	2.40	3,868.03	3.947E-02	Pulse	0.30	3
Ni			2	76.304	ug/l	9.82	1,682.33	1.716E-02	Pulse	0.30	3
Cu			2	79.507	ug/l	1.53	3,410.40	3.480E-02	Pulse	0.30	3
Zn			2	479.802	ug/l	5.20	8,721.32	8.898E-02	Pulse	0.30	3
As			2	51.229	ug/l	6.72	144.00	1.470E-03	Pulse	1.00	3
Cd			2	1.798	ug/l	88.88	18.87	2.840E-05	Pulse	0.30	3
Sn			2	37.905	ug/l	9.30	624.47	9.400E-04	Pulse	0.30	3
Se			3	7.572	ug/l	20.24	6.60	7.408E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,896,078.78	1.16	97.2	Analog	0.10	3
1	Sc		2,430,189.49	3.98	91.3	Analog	0.10	3
1	Ge		515,200.20	0.63	95.7	Pulse	0.10	3

Quantitation Report

1	Ge		708,717.23	1.44	95.9	Pulse	0.10	3
1	Rh		3,248,606.83	0.11	92.9	Analog	0.10	3
1	In		3,291,432.18	0.74	93.0	Analog	0.10	3
1	Tb		4,435,224.72	1.02	93.1	Analog	0.10	3
1	Ho		4,393,901.50	0.65	94.1	Analog	0.10	3
1	Bi		2,738,749.33	0.30	92.4	Analog	0.10	3
2	Sc		98,015.69	1.32	91.1	Pulse	0.30	3
2	Ge		66,552.62	1.11	96.6	Pulse	0.30	3
2	Ge		100,542.42	0.90	96.7	Pulse	0.30	3
2	Rh		1,660,549.62	1.01	94.8	Analog	0.30	3
2	In		664,352.64	0.04	96.1	Pulse	0.30	3
2	Tb		2,259,548.87	1.47	96.1	Analog	0.30	3
2	Ho		2,267,799.08	0.95	95.5	Analog	0.30	3
2	Bi		1,558,534.90	1.56	95.6	Analog	0.30	3
3	Sc		82,768.24	1.28	87.1	Pulse	0.30	3
3	Ge		58,785.34	0.33	92.5	Pulse	0.30	3
3	Ge		89,146.33	0.96	92.5	Pulse	0.30	3
3	Rh		953,028.30	0.40	92.1	Pulse	0.30	3
3	Tb		1,655,038.51	0.71	94.2	Analog	0.30	3

Quantitation Report

File Name	088SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:55
Sample Name	JD49491-9
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	6.149	ug/l	3.50	5,571.65	1.976E-03	Pulse	0.25	3
B			1	25.100	ug/l	3.46	18,470.43	6.550E-03	Pulse	0.15	3
Ca			1	6494.651	ug/l	1.29	613,744.28	2.295E-01	Pulse	0.10	3
Sr			1	64.203	ug/l	0.53	259,698.24	8.242E-02	Pulse	0.10	3
Mo			1	5.646	ug/l	2.03	4,544.17	1.442E-03	Pulse	0.10	3
Ag			1	0.476	ug/l	13.62	936.73	2.894E-04	Pulse	0.10	3
Sn			1	24.274	ug/l	2.58	32,501.08	1.004E-02	Pulse	0.10	3
Sb			1	1.964	ug/l	5.49	3,327.13	7.616E-04	Pulse	0.10	3
Ba			1	649.845	ug/l	0.39	387,236.13	8.863E-02	Pulse	0.10	3
Tl			1	1.670	ug/l	4.38	6,031.44	2.264E-03	Pulse	0.10	3
Pb			1	283.035	ug/l	0.70	350,916.31	1.317E-01	Pulse	0.10	3
Pb			1	263.623	ug/l	0.89	286,129.69	1.074E-01	Pulse	0.10	3
Pb			1	275.315	ug/l	0.97	1,356,120.50	5.090E-01	Pulse	0.10	3
Na			2	463.817	ug/l	0.71	47,553.08	4.445E-01	Pulse	0.30	3
Mg			2	13596.472	ug/l	0.24	617,088.14	5.768E+00	Pulse	0.30	3
Al			2	127164.035	ug/l	0.56	2,006,756.45	1.876E+01	Analog	0.30	3
K			2	5808.972	ug/l	0.57	200,690.03	1.876E+00	Pulse	0.30	3
Ca			2	6899.754	ug/l	1.59	11,867.65	1.109E-01	Pulse	0.30	3
Ti			2	1777.252	ug/l	0.91	21,533.05	2.013E-01	Pulse	0.30	3
V			2	297.689	ug/l	0.35	121,488.52	1.136E+00	Pulse	0.30	3
Cr			2	169.732	ug/l	0.97	87,856.07	8.212E-01	Pulse	0.30	3
Mn			2	3413.476	ug/l	0.25	938,216.18	8.770E+00	Pulse	0.30	3
Fe			2	155855.556	ug/l	0.71	67,050,341.78	6.267E+02	Analog	0.30	3
Co			2	66.669	ug/l	1.28	57,067.93	5.335E-01	Pulse	0.30	3
Ni			2	98.484	ug/l	0.59	23,205.38	2.169E-01	Pulse	0.30	3
Cu			2	96.356	ug/l	0.55	60,803.00	5.684E-01	Pulse	0.30	3
Zn			2	510.311	ug/l	0.79	56,533.62	5.284E-01	Pulse	0.30	3
As			2	51.225	ug/l	2.21	2,750.91	2.572E-02	Pulse	1.00	3
Cd			2	1.050	ug/l	8.04	154.21	2.402E-04	Pulse	0.30	3
Sn			2	27.571	ug/l	2.29	8,251.14	1.285E-02	Pulse	0.30	3
Se			3	8.800	ug/l	1.77	69.47	8.023E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,820,529.45	1.63	94.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,674,623.82	1.34	100.5	Analog	0.10	3
1	Ge		513,161.79	0.41	95.3	Pulse	0.10	3
1	Ge		695,815.49	0.68	94.1	Pulse	0.10	3
1	Rh		3,150,787.25	0.28	90.1	Analog	0.10	3
1	In		3,238,988.28	1.55	91.5	Analog	0.10	3
1	Tb		4,368,973.48	0.72	91.7	Analog	0.10	3
1	Ho		4,330,344.00	0.42	92.7	Analog	0.10	3
1	Bi		2,664,675.07	1.13	89.9	Analog	0.10	3
2	Sc		106,982.36	0.43	99.4	Pulse	0.30	3
2	Ge		66,107.47	1.12	96.0	Pulse	0.30	3
2	Ge		98,110.50	1.29	94.3	Pulse	0.30	3
2	Rh		1,577,873.72	1.63	90.1	Analog	0.30	3
2	In		641,944.95	0.51	92.8	Pulse	0.30	3
2	Tb		2,197,888.52	1.61	93.5	Analog	0.30	3
2	Ho		2,193,107.76	1.77	92.3	Analog	0.30	3
2	Bi		1,499,797.96	0.39	92.0	Analog	0.30	3
3	Sc		93,362.46	0.78	98.2	Pulse	0.30	3
3	Ge		57,384.93	0.69	90.3	Pulse	0.30	3
3	Ge		86,581.68	0.49	89.8	Pulse	0.30	3
3	Rh		925,332.32	0.23	89.4	Pulse	0.30	3
3	Tb		1,609,160.21	0.52	91.6	Analog	0.30	3

Quantitation Report

File Name	089SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 18:59
Sample Name	JD49491-9
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.410	ug/l	16.06	1,121.39	3.946E-04	Pulse	0.25	3
B			1	6.018	ug/l	44.07	5,467.71	1.924E-03	Pulse	0.15	3
Ca			1	6155.899	ug/l	2.35	117,455.87	4.741E-02	Pulse	0.10	3
Sr			1	56.824	ug/l	1.37	47,541.50	1.473E-02	Pulse	0.10	3
Mo			1	4.435	ug/l	11.40	786.72	2.434E-04	Pulse	0.10	3
Ag			1	0.485	ug/l	30.52	206.68	6.379E-05	Pulse	0.10	3
Sn			1	17.567	ug/l	10.54	6,011.34	1.855E-03	Pulse	0.10	3
Sb			1	1.077	ug/l	44.84	640.04	1.472E-04	Pulse	0.10	3
Ba			1	587.339	ug/l	0.21	69,864.70	1.608E-02	Pulse	0.10	3
Tl			1	1.368	ug/l	6.37	1,130.08	4.190E-04	Pulse	0.10	3
Pb			1	256.916	ug/l	1.87	66,122.38	2.452E-02	Pulse	0.10	3
Pb			1	241.241	ug/l	2.44	54,243.82	2.012E-02	Pulse	0.10	3
Pb			1	248.786	ug/l	2.09	254,371.09	9.434E-02	Pulse	0.10	3
Na			2	418.610	ug/l	2.24	10,818.01	1.106E-01	Pulse	0.30	3
Mg			2	13529.895	ug/l	0.74	112,893.41	1.154E+00	Pulse	0.30	3
Al			2	123258.458	ug/l	0.20	356,076.83	3.639E+00	Pulse	0.30	3
K			2	5911.557	ug/l	1.57	46,981.10	4.801E-01	Pulse	0.30	3
Ca			2	6616.136	ug/l	8.42	2,144.61	2.191E-02	Pulse	0.30	3
Ti			2	1823.392	ug/l	4.87	4,055.01	4.145E-02	Pulse	0.30	3
V			2	293.734	ug/l	1.47	22,217.33	2.270E-01	Pulse	0.30	3
Cr			2	171.161	ug/l	0.45	16,406.63	1.677E-01	Pulse	0.30	3
Mn			2	3459.916	ug/l	0.54	174,100.06	1.779E+00	Pulse	0.30	3
Fe			2	160472.513	ug/l	0.86	12,647,772.00	1.293E+02	Analog	0.30	3
Co			2	67.538	ug/l	1.37	10,609.41	1.084E-01	Pulse	0.30	3
Ni			2	94.610	ug/l	7.16	4,798.53	4.904E-02	Pulse	0.30	3
Cu			2	95.090	ug/l	0.93	11,906.64	1.217E-01	Pulse	0.30	3
Zn			2	538.969	ug/l	2.85	16,118.05	1.647E-01	Pulse	0.30	3
As			2	50.336	ug/l	5.79	509.68	5.209E-03	Pulse	1.00	3
Cd			2	0.650	ug/l	70.74	24.40	3.723E-05	Pulse	0.30	3
Sn			2	25.842	ug/l	7.30	1,607.88	2.459E-03	Pulse	0.30	3
Se			3	7.255	ug/l	11.23	14.53	1.668E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,842,557.08	0.53	95.4	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,478,145.43	2.72	93.1	Analog	0.10	3
1	Ge		505,456.55	1.84	93.9	Pulse	0.10	3
1	Ge		698,662.52	1.00	94.5	Pulse	0.10	3
1	Rh		3,227,743.49	2.07	92.3	Analog	0.10	3
1	In		3,241,219.34	0.59	91.6	Analog	0.10	3
1	Tb		4,344,611.71	0.44	91.2	Analog	0.10	3
1	Ho		4,356,034.83	0.65	93.2	Analog	0.10	3
1	Bi		2,696,715.59	1.18	91.0	Analog	0.10	3
2	Sc		97,854.87	0.64	90.9	Pulse	0.30	3
2	Ge		65,824.11	0.50	95.6	Pulse	0.30	3
2	Ge		97,859.61	0.20	94.1	Pulse	0.30	3
2	Rh		1,610,319.94	1.20	92.0	Analog	0.30	3
2	In		653,947.54	0.66	94.6	Pulse	0.30	3
2	Tb		2,194,333.11	0.13	93.3	Analog	0.30	3
2	Ho		2,233,091.30	0.36	94.0	Analog	0.30	3
2	Bi		1,523,445.08	0.31	93.4	Analog	0.30	3
3	Sc		82,670.05	0.26	86.9	Pulse	0.30	3
3	Ge		57,556.49	0.66	90.6	Pulse	0.30	3
3	Ge		87,105.30	0.51	90.4	Pulse	0.30	3
3	Rh		935,791.56	0.64	90.5	Pulse	0.30	3
3	Tb		1,618,292.71	0.75	92.1	Analog	0.30	3

Quantitation Report

File Name	090SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:02
Sample Name	JD49491-11
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.839	ug/l	2.50	5,151.53	1.883E-03	Pulse	0.25	3
B			1	20.923	ug/l	3.58	15,705.42	5.741E-03	Pulse	0.15	3
Ca			1	6762.926	ug/l	1.23	617,782.27	2.388E-01	Pulse	0.10	3
Sr			1	86.256	ug/l	0.41	341,391.71	1.107E-01	Pulse	0.10	3
Mo			1	5.322	ug/l	10.08	4,194.07	1.361E-03	Pulse	0.10	3
Ag			1	0.596	ug/l	8.16	1,130.09	3.607E-04	Pulse	0.10	3
Sn			1	25.407	ug/l	1.37	32,841.70	1.048E-02	Pulse	0.10	3
Sb			1	2.006	ug/l	4.45	3,307.15	7.766E-04	Pulse	0.10	3
Ba			1	733.028	ug/l	1.27	425,759.68	9.997E-02	Pulse	0.10	3
Tl			1	1.726	ug/l	9.92	6,001.49	2.337E-03	Pulse	0.10	3
Pb			1	358.259	ug/l	0.49	427,695.81	1.665E-01	Pulse	0.10	3
Pb			1	336.005	ug/l	1.07	351,168.74	1.367E-01	Pulse	0.10	3
Pb			1	349.099	ug/l	0.79	1,655,766.68	6.446E-01	Pulse	0.10	3
Na			2	772.473	ug/l	3.15	73,763.87	7.157E-01	Pulse	0.30	3
Mg			2	8973.557	ug/l	0.91	392,653.94	3.809E+00	Pulse	0.30	3
Al			2	108160.604	ug/l	0.69	1,644,607.82	1.596E+01	Analog	0.30	3
K			2	5514.658	ug/l	1.89	184,207.94	1.787E+00	Pulse	0.30	3
Ca			2	7119.313	ug/l	3.83	11,795.38	1.144E-01	Pulse	0.30	3
Ti			2	1238.273	ug/l	12.63	14,458.27	1.403E-01	Pulse	0.30	3
V			2	337.885	ug/l	0.93	132,807.91	1.288E+00	Pulse	0.30	3
Cr			2	156.475	ug/l	0.68	78,059.64	7.573E-01	Pulse	0.30	3
Mn			2	5306.225	ug/l	0.86	1,405,123.07	1.363E+01	Analog	0.30	3
Fe			2	178977.998	ug/l	1.43	74,180,188.16	7.197E+02	Analog	0.30	3
Co			2	60.737	ug/l	2.29	50,096.17	4.860E-01	Pulse	0.30	3
Ni			2	65.431	ug/l	3.24	15,169.34	1.472E-01	Pulse	0.30	3
Cu			2	79.730	ug/l	1.20	48,687.40	4.723E-01	Pulse	0.30	3
Zn			2	418.782	ug/l	0.76	45,944.13	4.457E-01	Pulse	0.30	3
As			2	53.913	ug/l	2.34	2,788.58	2.705E-02	Pulse	1.00	3
Cd			2	0.929	ug/l	14.95	134.19	2.134E-04	Pulse	0.30	3
Sn			2	27.016	ug/l	1.25	7,920.96	1.260E-02	Pulse	0.30	3
Se			3	8.367	ug/l	5.29	65.60	7.649E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,735,450.90	0.76	91.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,587,566.42	1.50	97.2	Analog	0.10	3
1	Ge		497,052.49	1.67	92.3	Pulse	0.10	3
1	Ge		673,616.61	1.18	91.1	Pulse	0.10	3
1	Rh		3,084,533.39	1.15	88.2	Analog	0.10	3
1	In		3,132,937.92	0.42	88.5	Analog	0.10	3
1	Tb		4,258,932.23	0.65	89.4	Analog	0.10	3
1	Ho		4,172,225.25	0.88	89.3	Analog	0.10	3
1	Bi		2,568,653.61	0.66	86.7	Analog	0.10	3
2	Sc		103,078.15	0.36	95.8	Pulse	0.30	3
2	Ge		64,721.98	1.22	94.0	Pulse	0.30	3
2	Ge		95,074.65	1.12	91.4	Pulse	0.30	3
2	Rh		1,536,255.91	1.47	87.7	Analog	0.30	3
2	In		628,841.95	0.26	90.9	Pulse	0.30	3
2	Tb		2,159,594.84	0.59	91.9	Analog	0.30	3
2	Ho		2,182,022.90	0.07	91.8	Analog	0.30	3
2	Bi		1,486,319.52	0.52	91.1	Analog	0.30	3
3	Sc		90,483.70	1.46	95.2	Pulse	0.30	3
3	Ge		57,613.41	0.57	90.7	Pulse	0.30	3
3	Ge		85,772.68	0.92	89.0	Pulse	0.30	3
3	Rh		921,349.86	0.62	89.1	Pulse	0.30	3
3	Tb		1,620,690.45	2.21	92.3	Analog	0.30	3

Quantitation Report

File Name	091SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:06
Sample Name	JD49491-11
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.002	ug/l	8.45	1,029.38	3.701E-04	Pulse	0.25	3
B			1	0.161	ug/l	1818.21	4,720.78	1.697E-03	Pulse	0.15	3
Ca			1	6199.780	ug/l	1.90	116,628.05	4.772E-02	Pulse	0.10	3
Sr			1	76.125	ug/l	3.14	62,338.51	1.968E-02	Pulse	0.10	3
Mo			1	4.259	ug/l	21.31	743.38	2.346E-04	Pulse	0.10	3
Ag			1	0.618	ug/l	6.39	253.34	7.968E-05	Pulse	0.10	3
Sn			1	18.135	ug/l	1.54	6,038.07	1.899E-03	Pulse	0.10	3
Sb			1	1.387	ug/l	17.61	723.38	1.690E-04	Pulse	0.10	3
Ba			1	655.600	ug/l	1.46	76,780.82	1.794E-02	Pulse	0.10	3
Tl			1	1.387	ug/l	1.84	1,130.09	4.240E-04	Pulse	0.10	3
Pb			1	316.641	ug/l	1.78	80,087.11	3.005E-02	Pulse	0.10	3
Pb			1	296.309	ug/l	1.89	65,512.89	2.458E-02	Pulse	0.10	3
Pb			1	307.489	ug/l	1.16	308,967.95	1.159E-01	Pulse	0.10	3
Na			2	712.391	ug/l	5.43	15,836.50	1.622E-01	Pulse	0.30	3
Mg			2	8716.598	ug/l	1.26	72,844.58	7.458E-01	Pulse	0.30	3
Al			2	102516.671	ug/l	1.08	295,657.67	3.027E+00	Pulse	0.30	3
K			2	5714.783	ug/l	4.84	45,740.17	4.682E-01	Pulse	0.30	3
Ca			2	6820.666	ug/l	3.91	2,204.62	2.257E-02	Pulse	0.30	3
Ti			2	1093.473	ug/l	3.90	2,434.66	2.493E-02	Pulse	0.30	3
V			2	325.391	ug/l	0.83	24,529.39	2.511E-01	Pulse	0.30	3
Cr			2	150.901	ug/l	2.23	14,469.70	1.481E-01	Pulse	0.30	3
Mn			2	5040.392	ug/l	1.26	253,078.19	2.591E+00	Pulse	0.30	3
Fe			2	178199.669	ug/l	1.31	14,016,058.33	1.435E+02	Analog	0.30	3
Co			2	60.915	ug/l	3.62	9,558.42	9.784E-02	Pulse	0.30	3
Ni			2	64.314	ug/l	3.76	3,540.43	3.625E-02	Pulse	0.30	3
Cu			2	74.658	ug/l	3.05	9,578.46	9.808E-02	Pulse	0.30	3
Zn			2	402.913	ug/l	3.54	13,685.81	1.401E-01	Pulse	0.30	3
As			2	50.942	ug/l	3.87	514.68	5.270E-03	Pulse	1.00	3
Cd			2	1.053	ug/l	81.62	35.51	5.504E-05	Pulse	0.30	3
Sn			2	25.914	ug/l	1.39	1,588.99	2.465E-03	Pulse	0.30	3
Se			3	6.653	ug/l	12.80	13.53	1.564E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,781,609.61	0.71	93.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,444,657.20	1.65	91.8	Analog	0.10	3
1	Ge		499,176.75	0.54	92.7	Pulse	0.10	3
1	Ge		687,045.41	0.75	92.9	Pulse	0.10	3
1	Rh		3,168,543.70	0.40	90.6	Analog	0.10	3
1	In		3,179,189.09	0.13	89.8	Analog	0.10	3
1	Tb		4,279,640.66	0.23	89.8	Analog	0.10	3
1	Ho		4,229,094.42	0.46	90.5	Analog	0.10	3
1	Bi		2,665,515.59	0.94	89.9	Analog	0.10	3
2	Sc		97,679.44	0.98	90.8	Pulse	0.30	3
2	Ge		64,380.61	0.18	93.5	Pulse	0.30	3
2	Ge		97,642.07	0.92	93.9	Pulse	0.30	3
2	Rh		1,592,070.42	1.10	90.9	Analog	0.30	3
2	In		644,521.33	0.39	93.2	Pulse	0.30	3
2	Tb		2,187,165.26	0.37	93.0	Analog	0.30	3
2	Ho		2,225,425.95	1.70	93.7	Analog	0.30	3
2	Bi		1,526,233.83	0.63	93.6	Analog	0.30	3
3	Sc		82,876.75	0.85	87.2	Pulse	0.30	3
3	Ge		56,421.54	0.74	88.8	Pulse	0.30	3
3	Ge		86,493.04	0.79	89.8	Pulse	0.30	3
3	Rh		929,792.67	0.19	89.9	Pulse	0.30	3
3	Tb		1,604,210.56	0.41	91.3	Analog	0.30	3

Quantitation Report

File Name	092SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:10
Sample Name	JD49491-13
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	8.441	ug/l	0.90	7,271.02	2.665E-03	Pulse	0.25	3
B			1	20.863	ug/l	1.62	15,634.25	5.729E-03	Pulse	0.15	3
Ca			1	7502.718	ug/l	0.93	682,798.30	2.644E-01	Pulse	0.10	3
Sr			1	61.852	ug/l	1.78	239,713.90	7.941E-02	Pulse	0.10	3
Mo			1	7.509	ug/l	2.48	5,771.28	1.912E-03	Pulse	0.10	3
Ag			1	0.361	ug/l	11.11	680.04	2.211E-04	Pulse	0.10	3
Sn			1	23.749	ug/l	2.65	30,239.93	9.830E-03	Pulse	0.10	3
Sb			1	1.958	ug/l	4.49	3,193.77	7.597E-04	Pulse	0.10	3
Ba			1	858.868	ug/l	0.16	492,359.25	1.171E-01	Pulse	0.10	3
Tl			1	1.608	ug/l	2.92	5,607.95	2.182E-03	Pulse	0.10	3
Pb			1	222.483	ug/l	2.33	266,500.48	1.037E-01	Pulse	0.10	3
Pb			1	206.833	ug/l	2.52	216,856.19	8.437E-02	Pulse	0.10	3
Pb			1	216.708	ug/l	1.51	1,031,303.95	4.012E-01	Pulse	0.10	3
Na			2	709.504	ug/l	6.25	68,695.31	6.603E-01	Pulse	0.30	3
Mg			2	11020.705	ug/l	0.91	486,616.59	4.677E+00	Pulse	0.30	3
Al			2	129640.916	ug/l	0.26	1,989,877.28	1.912E+01	Analog	0.30	3
K			2	6050.153	ug/l	0.64	202,778.32	1.949E+00	Pulse	0.30	3
Ca			2	7686.014	ug/l	1.38	12,849.53	1.235E-01	Pulse	0.30	3
Ti			2	1659.929	ug/l	1.90	19,563.92	1.880E-01	Pulse	0.30	3
V			2	463.708	ug/l	1.18	183,841.39	1.767E+00	Pulse	0.30	3
Cr			2	224.737	ug/l	1.04	113,053.17	1.087E+00	Pulse	0.30	3
Mn			2	12662.595	ug/l	1.23	3,384,425.63	3.253E+01	Analog	0.30	3
Fe			2	341417.330	ug/l	1.68	142,811,683.21	1.373E+03	Analog	0.30	3
Co			2	230.995	ug/l	1.04	192,199.38	1.847E+00	Pulse	0.30	3
Ni			2	78.826	ug/l	1.36	18,253.59	1.754E-01	Pulse	0.30	3
Cu			2	104.497	ug/l	0.90	64,030.61	6.154E-01	Pulse	0.30	3
Zn			2	319.445	ug/l	0.72	37,040.75	3.560E-01	Pulse	0.30	3
As			2	108.149	ug/l	1.71	5,626.32	5.408E-02	Pulse	1.00	3
Cd			2	0.840	ug/l	44.05	121.87	1.939E-04	Pulse	0.30	3
Sn			2	26.241	ug/l	3.17	7,667.51	1.224E-02	Pulse	0.30	3
Se			3	10.362	ug/l	8.55	80.67	9.374E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,728,648.17	0.58	91.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,582,816.99	0.69	97.0	Analog	0.10	3
1	Ge		503,496.67	1.08	93.5	Pulse	0.10	3
1	Ge		667,065.80	1.14	90.2	Pulse	0.10	3
1	Rh		3,018,744.33	0.48	86.3	Analog	0.10	3
1	In		3,076,434.79	0.36	86.9	Analog	0.10	3
1	Tb		4,203,877.02	0.81	88.2	Analog	0.10	3
1	Ho		4,141,339.94	1.07	88.6	Analog	0.10	3
1	Bi		2,570,598.56	1.00	86.7	Analog	0.10	3
2	Sc		104,054.25	1.01	96.7	Pulse	0.30	3
2	Ge		64,744.31	0.67	94.0	Pulse	0.30	3
2	Ge		95,025.72	0.55	91.4	Pulse	0.30	3
2	Rh		1,540,143.34	0.24	87.9	Analog	0.30	3
2	In		626,581.41	1.66	90.6	Pulse	0.30	3
2	Tb		2,156,785.61	0.71	91.7	Analog	0.30	3
2	Ho		2,178,094.64	0.91	91.7	Analog	0.30	3
2	Bi		1,470,099.14	0.81	90.1	Analog	0.30	3
3	Sc		92,959.60	0.13	97.8	Pulse	0.30	3
3	Ge		57,616.66	0.31	90.7	Pulse	0.30	3
3	Ge		86,074.39	0.61	89.3	Pulse	0.30	3
3	Rh		917,124.69	0.55	88.6	Pulse	0.30	3
3	Tb		1,602,910.18	1.14	91.3	Analog	0.30	3

Quantitation Report

File Name	093SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:13
Sample Name	JD49491-13
Sample Type	Sample
Comment	200X
Prep Dilution	200.000
Auto Dilution	N/A
Total Dilution	200.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	1.640	ug/l	134.26	404.01	1.544E-04	Pulse	0.25	3
B			1	-80.395	ug/l	-4.94	2,389.12	9.125E-04	Pulse	0.15	3
Ca			1	6070.522	ug/l	3.09	34,206.11	1.532E-02	Pulse	0.10	3
Sr			1	52.438	ug/l	1.82	10,450.48	3.529E-03	Pulse	0.10	3
Mo			1	9.043	ug/l	19.79	396.69	1.339E-04	Pulse	0.10	3
Ag			1	0.575	ug/l	51.77	70.00	2.317E-05	Pulse	0.10	3
Sn			1	4.608	ug/l	54.25	1,696.83	5.606E-04	Pulse	0.10	3
Sb			1	-1.241	ug/l	-45.96	206.68	4.975E-05	Pulse	0.10	3
Ba			1	711.961	ug/l	2.02	20,450.78	4.923E-03	Pulse	0.10	3
Tl			1	0.919	ug/l	49.11	306.68	1.183E-04	Pulse	0.10	3
Pb			1	186.209	ug/l	5.17	13,109.60	5.057E-03	Pulse	0.10	3
Pb			1	183.119	ug/l	3.56	11,094.53	4.279E-03	Pulse	0.10	3
Pb			1	183.168	ug/l	2.01	51,105.99	1.971E-02	Pulse	0.10	3
Na			2	523.139	ug/l	2.77	5,168.62	5.998E-02	Pulse	0.30	3
Mg			2	10829.400	ug/l	0.51	20,386.91	2.366E-01	Pulse	0.30	3
Al			2	121621.613	ug/l	0.89	77,554.40	9.000E-01	Pulse	0.30	3
K			2	6848.881	ug/l	2.91	19,535.99	2.267E-01	Pulse	0.30	3
Ca			2	7525.557	ug/l	14.61	585.57	6.795E-03	Pulse	0.30	3
Ti			2	1609.334	ug/l	14.78	800.03	9.290E-03	Pulse	0.30	3
V			2	436.478	ug/l	2.40	7,465.09	8.664E-02	Pulse	0.30	3
Cr			2	214.680	ug/l	2.50	4,681.50	5.432E-02	Pulse	0.30	3
Mn			2	12254.664	ug/l	0.37	135,782.38	1.576E+00	Pulse	0.30	3
Fe			2	349484.795	ug/l	0.44	6,074,143.09	7.048E+01	Analog	0.30	3
Co			2	219.306	ug/l	1.99	7,593.22	8.810E-02	Pulse	0.30	3
Ni			2	72.697	ug/l	11.99	1,445.64	1.678E-02	Pulse	0.30	3
Cu			2	97.006	ug/l	3.26	3,433.73	3.985E-02	Pulse	0.30	3
Zn			2	329.962	ug/l	18.64	7,082.74	8.221E-02	Pulse	0.30	3
As			2	100.984	ug/l	15.96	233.33	2.709E-03	Pulse	1.00	3
Cd			2	1.416	ug/l	20.20	14.43	2.420E-05	Pulse	0.30	3
Sn			2	30.805	ug/l	8.33	462.24	7.753E-04	Pulse	0.30	3
Se			3	2.204	ug/l	122.87	4.00	5.086E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,617,305.66	1.23	87.8	Analog	0.10	3
1	Sc		2,232,799.76	1.50	83.9	Analog	0.10	3
1	Ge		465,764.55	0.82	86.5	Pulse	0.10	3

Quantitation Report

1	Ge		641,155.76	1.00	86.7	Pulse	0.10	3
1	Rh		2,961,358.29	0.89	84.6	Analog	0.10	3
1	In		3,025,825.31	0.67	85.5	Analog	0.10	3
1	Tb		4,153,930.46	0.33	87.2	Analog	0.10	3
1	Ho		4,064,910.25	0.67	87.0	Analog	0.10	3
1	Bi		2,592,797.98	0.37	87.5	Analog	0.10	3
2	Sc		86,180.92	1.41	80.1	Pulse	0.30	3
2	Ge		59,085.26	0.68	85.8	Pulse	0.30	3
2	Ge		88,115.12	0.74	84.7	Pulse	0.30	3
2	Rh		1,489,142.20	1.58	85.0	Analog	0.30	3
2	In		596,071.57	0.59	86.2	Pulse	0.30	3
2	Tb		2,070,522.97	0.72	88.1	Analog	0.30	3
2	Ho		2,105,719.50	0.24	88.6	Analog	0.30	3
2	Bi		1,466,100.95	0.38	89.9	Analog	0.30	3
3	Sc		73,171.77	0.23	77.0	Pulse	0.30	3
3	Ge		51,728.25	1.21	81.4	Pulse	0.30	3
3	Ge		78,653.74	0.63	81.6	Pulse	0.30	3
3	Rh		859,608.04	0.57	83.1	Pulse	0.30	3
3	Tb		1,534,143.73	0.44	87.3	Analog	0.30	3

Quantitation Report

File Name	094SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:17
Sample Name	JD49491-15
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.955	ug/l	8.94	4,771.41	1.918E-03	Pulse	0.25	3
B			1	28.264	ug/l	5.52	17,816.40	7.162E-03	Pulse	0.15	3
Ca			1	10626.424	ug/l	1.30	876,123.01	3.724E-01	Pulse	0.10	3
Sr			1	93.972	ug/l	0.84	338,471.65	1.206E-01	Pulse	0.10	3
Mo			1	7.040	ug/l	6.58	5,034.35	1.794E-03	Pulse	0.10	3
Ag			1	0.433	ug/l	14.53	766.72	2.638E-04	Pulse	0.10	3
Sn			1	24.736	ug/l	1.97	29,705.57	1.022E-02	Pulse	0.10	3
Sb			1	1.638	ug/l	9.29	2,633.65	6.472E-04	Pulse	0.10	3
Ba			1	635.024	ug/l	1.60	352,529.25	8.662E-02	Pulse	0.10	3
Tl			1	1.721	ug/l	4.71	5,834.70	2.330E-03	Pulse	0.10	3
Pb			1	204.016	ug/l	1.75	238,222.46	9.514E-02	Pulse	0.10	3
Pb			1	188.832	ug/l	1.06	193,008.57	7.708E-02	Pulse	0.10	3
Pb			1	197.622	ug/l	1.68	916,796.67	3.661E-01	Pulse	0.10	3
Na			2	1048.271	ug/l	3.26	89,521.53	9.580E-01	Pulse	0.30	3
Mg			2	12999.434	ug/l	1.84	515,065.57	5.515E+00	Pulse	0.30	3
Al			2	135448.153	ug/l	3.14	1,865,685.48	1.998E+01	Analog	0.30	3
K			2	7742.449	ug/l	1.75	229,680.41	2.459E+00	Pulse	0.30	3
Ca			2	11075.668	ug/l	4.21	16,581.76	1.776E-01	Pulse	0.30	3
Ti			2	1879.920	ug/l	1.38	19,883.24	2.129E-01	Pulse	0.30	3
V			2	407.170	ug/l	1.12	144,945.47	1.552E+00	Pulse	0.30	3
Cr			2	206.924	ug/l	2.13	93,452.99	1.001E+00	Pulse	0.30	3
Mn			2	2620.231	ug/l	1.34	628,770.60	6.732E+00	Pulse	0.30	3
Fe			2	236005.107	ug/l	1.04	88,628,783.14	9.489E+02	Analog	0.30	3
Co			2	52.170	ug/l	1.61	39,000.77	4.175E-01	Pulse	0.30	3
Ni			2	83.874	ug/l	10.74	17,405.09	1.861E-01	Pulse	0.30	3
Cu			2	91.825	ug/l	0.25	50,647.68	5.422E-01	Pulse	0.30	3
Zn			2	589.301	ug/l	2.46	56,015.24	5.998E-01	Pulse	0.30	3
As			2	71.949	ug/l	4.38	3,365.03	3.604E-02	Pulse	1.00	3
Cd			2	0.935	ug/l	35.34	123.04	2.148E-04	Pulse	0.30	3
Sn			2	27.262	ug/l	1.85	7,291.77	1.271E-02	Pulse	0.30	3
Se			3	7.593	ug/l	4.93	56.73	6.980E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,487,818.30	1.24	83.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,352,469.44	0.34	88.4	Analog	0.10	3
1	Ge		452,189.16	0.96	84.0	Pulse	0.10	3
1	Ge		613,585.10	0.34	83.0	Pulse	0.10	3
1	Rh		2,807,446.00	0.43	80.2	Analog	0.10	3
1	In		2,907,269.77	0.85	82.1	Analog	0.10	3
1	Tb		4,070,383.27	0.80	85.4	Analog	0.10	3
1	Ho		4,014,383.38	0.51	85.9	Analog	0.10	3
1	Bi		2,504,076.26	0.63	84.5	Analog	0.10	3
2	Sc		93,413.08	2.00	86.8	Pulse	0.30	3
2	Ge		57,959.11	1.75	84.2	Pulse	0.30	3
2	Ge		86,027.18	0.86	82.7	Pulse	0.30	3
2	Rh		1,418,324.60	0.68	81.0	Analog	0.30	3
2	In		573,722.02	0.81	83.0	Pulse	0.30	3
2	Tb		2,019,697.49	0.38	85.9	Analog	0.30	3
2	Ho		2,054,740.68	0.31	86.5	Analog	0.30	3
2	Bi		1,422,817.27	1.08	87.2	Analog	0.30	3
3	Sc		86,141.94	0.40	90.6	Pulse	0.30	3
3	Ge		53,779.40	1.63	84.6	Pulse	0.30	3
3	Ge		81,314.53	1.55	84.4	Pulse	0.30	3
3	Rh		867,921.35	0.65	83.9	Pulse	0.30	3
3	Tb		1,545,722.92	0.78	88.0	Analog	0.30	3

Quantitation Report

File Name	095_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:20
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	49.432	ug/l	1.29	353,584.78	1.486E-01	Pulse	0.25	3
B			1	93.872	ug/l	1.43	436,539.64	1.834E-01	Pulse	0.15	3
Ca			1	5054.761	ug/l	1.48	3,670,702.55	1.753E+00	Analog	0.10	3
Sr			1	49.901	ug/l	1.30	1,722,911.95	6.395E-01	Analog	0.10	3
Mo			1	49.841	ug/l	1.58	338,349.68	1.256E-01	Pulse	0.10	3
Ag			1	50.574	ug/l	1.55	843,279.57	3.012E-01	Pulse	0.10	3
Sn			1	48.304	ug/l	0.46	534,375.24	1.908E-01	Pulse	0.10	3
Sb			1	48.950	ug/l	1.29	679,209.00	1.721E-01	Pulse	0.10	3
Ba			1	47.276	ug/l	1.30	254,581.17	6.450E-02	Pulse	0.10	3
Tl			1	51.680	ug/l	1.17	1,658,513.31	6.826E-01	Analog	0.10	3
Pb			1	49.682	ug/l	1.72	560,294.31	2.306E-01	Pulse	0.10	3
Pb			1	47.983	ug/l	1.46	473,731.74	1.950E-01	Pulse	0.10	3
Pb			1	49.714	ug/l	1.77	2,227,234.76	9.167E-01	Mix	0.10	3
Na			2	5309.071	ug/l	1.40	3,898,030.40	4.668E+01	Analog	0.30	3
Mg			2	5368.633	ug/l	1.37	1,900,296.31	2.275E+01	Analog	0.30	3
Al			2	5155.786	ug/l	0.65	635,262.06	7.607E+00	Pulse	0.30	3
K			2	5256.891	ug/l	1.85	1,334,620.29	1.598E+01	Analog	0.30	3
Ca			2	5442.440	ug/l	0.84	72,623.98	8.696E-01	Pulse	0.30	3
Ti			2	50.930	ug/l	3.54	4,827.43	5.781E-02	Pulse	0.30	3
V			2	51.076	ug/l	1.12	162,483.07	1.946E+00	Pulse	0.30	3
Cr			2	50.614	ug/l	0.54	204,089.15	2.444E+00	Pulse	0.30	3
Mn			2	51.244	ug/l	0.62	110,061.58	1.318E+00	Pulse	0.30	3
Fe			2	5307.986	ug/l	2.12	17,835,983.18	2.136E+02	Analog	0.30	3
Co			2	50.143	ug/l	1.41	334,798.00	4.009E+00	Pulse	0.30	3
Ni			2	50.144	ug/l	2.20	89,106.75	1.067E+00	Pulse	0.30	3
Cu			2	49.575	ug/l	1.01	240,092.95	2.875E+00	Pulse	0.30	3
Zn			2	49.553	ug/l	1.04	43,012.92	5.151E-01	Pulse	0.30	3
As			2	51.487	ug/l	0.35	21,439.03	2.567E-01	Pulse	1.00	3
Cd			2	50.294	ug/l	0.90	60,833.83	1.109E-01	Pulse	0.30	3
Sn			2	51.337	ug/l	1.49	130,660.67	2.383E-01	Pulse	0.30	3
Se			3	205.706	ug/l	0.61	13,803.67	1.779E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,379,959.84	0.62	79.9	Analog	0.10	3
1	Sc		2,093,712.94	1.51	78.6	Analog	0.10	3
1	Ge		425,746.91	0.69	79.1	Pulse	0.10	3

Quantitation Report

1	Ge		590,382.95	1.15	79.9	Pulse	0.10	3
1	Rh		2,694,338.91	0.38	77.0	Analog	0.10	3
1	In		2,800,146.52	0.40	79.1	Analog	0.10	3
1	Tb		3,946,777.23	0.55	82.8	Analog	0.10	3
1	Ho		3,928,936.92	1.50	84.1	Analog	0.10	3
1	Bi		2,429,774.03	0.96	82.0	Analog	0.10	3
2	Sc		83,513.24	1.15	77.6	Pulse	0.30	3
2	Ge		54,026.72	0.57	78.5	Pulse	0.30	3
2	Ge		81,475.21	1.38	78.3	Pulse	0.30	3
2	Rh		1,364,378.25	0.81	77.9	Analog	0.30	3
2	In		548,396.81	0.74	79.3	Pulse	0.30	3
2	Tb		1,978,258.60	0.29	84.1	Analog	0.30	3
2	Ho		1,985,829.92	0.86	83.6	Analog	0.30	3
2	Bi		1,361,097.97	1.51	83.5	Analog	0.30	3
3	Sc		76,240.88	0.90	80.2	Pulse	0.30	3
3	Ge		50,665.09	0.72	79.7	Pulse	0.30	3
3	Ge		77,575.60	0.50	80.5	Pulse	0.30	3
3	Rh		829,285.49	0.32	80.2	Pulse	0.30	3
3	Tb		1,520,028.97	0.81	86.5	Analog	0.30	3

Quantitation Report

File Name	096BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:24
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.017	ug/l	-11.76	189.33	7.744E-05	Pulse	0.25	3
B			1	1.190	ug/l	1.92	9,760.77	3.994E-03	Pulse	0.15	3
Ca			1	-4.170	ug/l	-9.63	7,071.82	3.379E-03	Pulse	0.10	3
Sr			1	0.000	ug/l	-346.34	460.02	1.653E-04	Pulse	0.10	3
Mo			1	0.025	ug/l	21.94	233.35	8.376E-05	Pulse	0.10	3
Ag			1	0.005	ug/l	47.90	103.34	3.606E-05	Pulse	0.10	3
Sn			1	0.146	ug/l	15.58	3,007.06	1.046E-03	Pulse	0.10	3
Sb			1	0.010	ug/l	16.58	426.69	1.065E-04	Pulse	0.10	3
Ba			1	-0.020	ug/l	-36.36	180.01	4.492E-05	Pulse	0.10	3
Tl			1	0.033	ug/l	17.46	1,223.44	4.927E-04	Pulse	0.10	3
Pb			1	0.022	ug/l	52.05	2,110.24	8.499E-04	Pulse	0.10	3
Pb			1	0.036	ug/l	14.41	1,773.51	7.145E-04	Pulse	0.10	3
Pb			1	0.025	ug/l	15.61	8,287.91	3.338E-03	Pulse	0.10	3
Na			2	-0.570	ug/l	-25.97	2,645.80	3.199E-02	Pulse	0.30	3
Mg			2	-0.763	ug/l	-2.74	322.23	3.894E-03	Pulse	0.30	3
Al			2	0.165	ug/l	296.17	275.56	3.332E-03	Pulse	0.30	3
K			2	7.490	ug/l	16.11	12,075.60	1.460E-01	Pulse	0.30	3
Ca			2	-3.081	ug/l	-29.47	24.44	2.967E-04	Pulse	0.30	3
Ti			2	0.014	ug/l	450.44	16.66	2.018E-04	Pulse	0.30	3
V			2	-0.030	ug/l	-4.94	207.78	2.512E-03	Pulse	0.30	3
Cr			2	-0.015	ug/l	-42.95	150.48	1.816E-03	Pulse	0.30	3
Mn			2	0.026	ug/l	30.82	191.11	2.309E-03	Pulse	0.30	3
Fe			2	20.200	ug/l	15.72	87,260.63	1.054E+00	Pulse	0.30	3
Co			2	-0.001	ug/l	-108.91	31.99	3.870E-04	Pulse	0.30	3
Ni			2	-0.046	ug/l	-65.77	673.36	8.134E-03	Pulse	0.30	3
Cu			2	0.007	ug/l	149.54	1,011.15	1.222E-02	Pulse	0.30	3
Zn			2	-0.559	ug/l	-7.50	5,149.76	6.225E-02	Pulse	0.30	3
As			2	0.007	ug/l	67.13	18.67	2.259E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.003	ug/l	128.31	8.88	1.558E-05	Pulse	0.30	3
Sn			2	0.431	ug/l	16.13	1,175.61	2.059E-03	Pulse	0.30	3
Se			3	0.173	ug/l	7.49	14.73	1.907E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,444,003.07	0.86	82.0	Analog	0.10	3
1	Sc		2,093,253.25	1.02	78.6	Analog	0.10	3
1	Ge		427,571.88	1.11	79.4	Pulse	0.10	3
1	Ge		593,633.05	0.74	80.3	Pulse	0.10	3
1	Rh		2,783,742.46	0.68	79.6	Analog	0.10	3
1	In		2,872,587.27	0.92	81.1	Analog	0.10	3
1	Tb		4,004,625.25	0.56	84.1	Analog	0.10	3
1	Ho		3,988,061.61	0.54	85.4	Analog	0.10	3
1	Bi		2,482,601.21	0.98	83.8	Analog	0.10	3
2	Sc		82,733.90	1.64	76.9	Pulse	0.30	3
2	Ge		55,244.34	0.75	80.2	Pulse	0.30	3
2	Ge		82,947.27	0.79	79.8	Pulse	0.30	3
2	Rh		1,418,200.84	0.69	81.0	Analog	0.30	3
2	In		570,544.04	0.63	82.5	Pulse	0.30	3
2	Tb		2,011,247.77	0.56	85.5	Analog	0.30	3
2	Ho		2,031,142.14	0.04	85.5	Analog	0.30	3
2	Bi		1,416,445.71	1.08	86.8	Analog	0.30	3
3	Sc		73,789.86	1.94	77.6	Pulse	0.30	3
3	Ge		50,894.53	0.42	80.1	Pulse	0.30	3
3	Ge		77,239.40	1.16	80.2	Pulse	0.30	3
3	Rh		851,075.90	0.36	82.3	Pulse	0.30	3
3	Tb		1,536,407.75	2.16	87.5	Analog	0.30	3

Quantitation Report

File Name	097SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:28
Sample Name	JD49491-15
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.359	ug/l	3.76	1,009.38	3.915E-04	Pulse	0.25	3
B			1	17.618	ug/l	11.45	6,119.04	2.373E-03	Pulse	0.15	3
Ca			1	9858.023	ug/l	2.38	162,049.34	7.303E-02	Pulse	0.10	3
Sr			1	82.032	ug/l	1.33	61,628.79	2.119E-02	Pulse	0.10	3
Mo			1	5.631	ug/l	9.72	883.39	3.037E-04	Pulse	0.10	3
Ag			1	0.535	ug/l	3.92	206.68	6.976E-05	Pulse	0.10	3
Sn			1	19.045	ug/l	3.75	5,841.28	1.971E-03	Pulse	0.10	3
Sb			1	1.124	ug/l	10.05	626.70	1.506E-04	Pulse	0.10	3
Ba			1	574.663	ug/l	0.29	65,475.37	1.574E-02	Pulse	0.10	3
Tl			1	1.666	ug/l	13.51	1,303.44	4.975E-04	Pulse	0.10	3
Pb			1	181.245	ug/l	0.70	45,938.92	1.752E-02	Pulse	0.10	3
Pb			1	168.536	ug/l	1.37	37,301.36	1.423E-02	Pulse	0.10	3
Pb			1	175.709	ug/l	0.54	176,920.29	6.747E-02	Pulse	0.10	3
Na			2	943.170	ug/l	1.57	18,113.16	2.027E-01	Pulse	0.30	3
Mg			2	12575.718	ug/l	0.36	95,858.85	1.073E+00	Pulse	0.30	3
Al			2	128192.624	ug/l	1.01	338,130.74	3.784E+00	Pulse	0.30	3
K			2	7572.117	ug/l	0.48	51,850.00	5.803E-01	Pulse	0.30	3
Ca			2	11214.034	ug/l	5.57	3,270.37	3.659E-02	Pulse	0.30	3
Ti			2	1800.144	ug/l	4.60	3,656.01	4.092E-02	Pulse	0.30	3
V			2	389.597	ug/l	1.07	26,799.56	2.999E-01	Pulse	0.30	3
Cr			2	199.727	ug/l	1.01	17,444.17	1.952E-01	Pulse	0.30	3
Mn			2	2571.963	ug/l	0.79	118,214.97	1.323E+00	Pulse	0.30	3
Fe			2	234812.796	ug/l	0.95	16,888,435.99	1.890E+02	Analog	0.30	3
Co			2	51.383	ug/l	2.73	7,380.60	8.259E-02	Pulse	0.30	3
Ni			2	74.033	ug/l	6.17	3,606.00	4.035E-02	Pulse	0.30	3
Cu			2	86.291	ug/l	2.41	9,964.25	1.115E-01	Pulse	0.30	3
Zn			2	586.420	ug/l	1.00	15,482.98	1.733E-01	Pulse	0.30	3
As			2	69.944	ug/l	3.07	640.02	7.163E-03	Pulse	1.00	3
Cd			2	0.870	ug/l	17.32	27.70	4.697E-05	Pulse	0.30	3
Sn			2	27.192	ug/l	3.23	1,524.54	2.584E-03	Pulse	0.30	3
Se			3	9.477	ug/l	19.27	16.20	2.052E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,578,337.54	0.95	86.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,220,099.86	3.20	83.4	Analog	0.10	3
1	Ge		445,586.97	0.36	82.8	Pulse	0.10	3
1	Ge		617,877.09	0.82	83.6	Pulse	0.10	3
1	Rh		2,908,529.64	0.24	83.1	Analog	0.10	3
1	In		2,963,224.09	0.88	83.7	Analog	0.10	3
1	Tb		4,161,086.09	0.68	87.3	Analog	0.10	3
1	Ho		4,083,395.98	0.48	87.4	Analog	0.10	3
1	Bi		2,622,065.27	1.01	88.5	Analog	0.10	3
2	Sc		89,352.25	0.66	83.0	Pulse	0.30	3
2	Ge		58,241.27	0.73	84.6	Pulse	0.30	3
2	Ge		87,267.33	0.82	83.9	Pulse	0.30	3
2	Rh		1,476,828.07	0.66	84.3	Analog	0.30	3
2	In		589,950.52	0.30	85.3	Pulse	0.30	3
2	Tb		2,086,342.76	0.85	88.7	Analog	0.30	3
2	Ho		2,119,026.93	1.21	89.2	Analog	0.30	3
2	Bi		1,483,004.49	0.73	90.9	Analog	0.30	3
3	Sc		77,661.82	1.40	81.7	Pulse	0.30	3
3	Ge		52,523.12	0.47	82.6	Pulse	0.30	3
3	Ge		78,950.95	0.67	81.9	Pulse	0.30	3
3	Rh		865,402.48	0.61	83.6	Pulse	0.30	3
3	Tb		1,567,847.65	0.70	89.3	Analog	0.30	3

Quantitation Report

File Name	098SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:31
Sample Name	JD49491-17
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	6.464	ug/l	2.74	5,220.87	2.071E-03	Pulse	0.25	3
B			1	31.892	ug/l	3.22	19,825.26	7.865E-03	Pulse	0.15	3
Ca			1	9739.402	ug/l	0.34	816,208.09	3.417E-01	Pulse	0.10	3
Sr			1	74.186	ug/l	1.25	270,486.61	9.521E-02	Pulse	0.10	3
Mo			1	6.224	ug/l	5.08	4,510.82	1.588E-03	Pulse	0.10	3
Ag			1	0.410	ug/l	14.26	740.05	2.502E-04	Pulse	0.10	3
Sn			1	25.161	ug/l	2.91	30,687.50	1.039E-02	Pulse	0.10	3
Sb			1	1.942	ug/l	2.95	3,070.42	7.541E-04	Pulse	0.10	3
Ba			1	724.632	ug/l	2.00	402,340.39	9.883E-02	Pulse	0.10	3
Tl			1	1.691	ug/l	1.58	5,798.04	2.291E-03	Pulse	0.10	3
Pb			1	246.007	ug/l	0.44	289,976.97	1.146E-01	Pulse	0.10	3
Pb			1	229.447	ug/l	0.81	236,746.45	9.354E-02	Pulse	0.10	3
Pb			1	239.478	ug/l	1.07	1,121,467.04	4.431E-01	Pulse	0.10	3
Na			2	762.038	ug/l	1.21	68,344.35	7.065E-01	Pulse	0.30	3
Mg			2	12559.453	ug/l	0.55	515,515.33	5.329E+00	Pulse	0.30	3
Al			2	133445.720	ug/l	0.71	1,904,272.91	1.968E+01	Analog	0.30	3
K			2	7917.665	ug/l	0.94	243,019.78	2.512E+00	Pulse	0.30	3
Ca			2	10246.750	ug/l	1.12	15,902.17	1.644E-01	Pulse	0.30	3
Ti			2	1916.090	ug/l	2.75	20,988.99	2.170E-01	Pulse	0.30	3
V			2	411.901	ug/l	0.58	151,871.86	1.570E+00	Pulse	0.30	3
Cr			2	202.768	ug/l	0.41	94,865.17	9.806E-01	Pulse	0.30	3
Mn			2	4102.473	ug/l	0.69	1,019,617.11	1.054E+01	Pulse	0.30	3
Fe			2	249617.619	ug/l	1.42	97,086,200.59	1.004E+03	Analog	0.30	3
Co			2	66.074	ug/l	1.58	51,148.85	5.287E-01	Pulse	0.30	3
Ni			2	77.160	ug/l	3.90	16,628.53	1.719E-01	Pulse	0.30	3
Cu			2	105.391	ug/l	0.52	60,035.82	6.205E-01	Pulse	0.30	3
Zn			2	417.748	ug/l	1.63	43,027.47	4.448E-01	Pulse	0.30	3
As			2	70.196	ug/l	0.95	3,402.36	3.517E-02	Pulse	1.00	3
Cd			2	1.063	ug/l	18.99	143.06	2.430E-04	Pulse	0.30	3
Sn			2	28.233	ug/l	2.13	7,740.87	1.316E-02	Pulse	0.30	3
Se			3	8.581	ug/l	7.84	64.00	7.834E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,520,850.20	0.70	84.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,388,389.13	0.33	89.7	Analog	0.10	3
1	Ge		456,066.35	0.85	84.7	Pulse	0.10	3
1	Ge		614,193.13	1.20	83.1	Pulse	0.10	3
1	Rh		2,840,962.87	0.48	81.2	Analog	0.10	3
1	In		2,955,386.36	1.82	83.5	Analog	0.10	3
1	Tb		4,071,781.92	1.17	85.5	Analog	0.10	3
1	Ho		4,045,126.19	0.54	86.6	Analog	0.10	3
1	Bi		2,531,074.18	0.21	85.4	Analog	0.10	3
2	Sc		96,744.86	1.01	89.9	Pulse	0.30	3
2	Ge		60,272.90	1.31	87.5	Pulse	0.30	3
2	Ge		89,360.84	0.94	85.9	Pulse	0.30	3
2	Rh		1,458,131.09	0.26	83.3	Analog	0.30	3
2	In		588,120.15	0.74	85.0	Pulse	0.30	3
2	Tb		2,071,379.22	0.95	88.1	Analog	0.30	3
2	Ho		2,106,533.67	0.53	88.7	Analog	0.30	3
2	Bi		1,439,109.04	0.60	88.2	Analog	0.30	3
3	Sc		88,722.86	0.74	93.3	Pulse	0.30	3
3	Ge		55,195.04	1.17	86.9	Pulse	0.30	3
3	Ge		81,697.43	0.06	84.8	Pulse	0.30	3
3	Rh		875,394.22	0.28	84.6	Pulse	0.30	3
3	Tb		1,563,910.36	1.25	89.0	Analog	0.30	3

Quantitation Report

File Name	099SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:35
Sample Name	JD49491-17
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.590	ug/l	15.30	1,033.38	4.054E-04	Pulse	0.25	3
B			1	13.326	ug/l	7.52	5,625.50	2.207E-03	Pulse	0.15	3
Ca			1	9136.851	ug/l	1.41	150,882.38	6.804E-02	Pulse	0.10	3
Sr			1	64.308	ug/l	0.40	48,280.15	1.665E-02	Pulse	0.10	3
Mo			1	5.050	ug/l	30.60	796.72	2.744E-04	Pulse	0.10	3
Ag			1	0.468	ug/l	34.25	183.34	6.172E-05	Pulse	0.10	3
Sn			1	18.232	ug/l	2.23	5,664.57	1.907E-03	Pulse	0.10	3
Sb			1	1.229	ug/l	35.50	646.71	1.579E-04	Pulse	0.10	3
Ba			1	644.605	ug/l	0.14	72,312.63	1.764E-02	Pulse	0.10	3
Tl			1	1.591	ug/l	19.04	1,236.77	4.777E-04	Pulse	0.10	3
Pb			1	219.932	ug/l	1.50	54,604.86	2.110E-02	Pulse	0.10	3
Pb			1	200.697	ug/l	0.57	43,558.57	1.683E-02	Pulse	0.10	3
Pb			1	212.122	ug/l	0.19	209,252.21	8.086E-02	Pulse	0.10	3
Na			2	728.682	ug/l	3.18	14,455.33	1.650E-01	Pulse	0.30	3
Mg			2	12398.270	ug/l	0.84	92,655.72	1.058E+00	Pulse	0.30	3
Al			2	128126.247	ug/l	0.22	331,319.49	3.782E+00	Pulse	0.30	3
K			2	7997.647	ug/l	1.08	53,078.50	6.060E-01	Pulse	0.30	3
Ca			2	9834.445	ug/l	5.53	2,819.17	3.219E-02	Pulse	0.30	3
Ti			2	1901.354	ug/l	2.67	3,784.92	4.321E-02	Pulse	0.30	3
V			2	399.241	ug/l	1.67	26,915.28	3.073E-01	Pulse	0.30	3
Cr			2	198.302	ug/l	0.88	16,979.80	1.938E-01	Pulse	0.30	3
Mn			2	4086.305	ug/l	1.22	184,028.79	2.101E+00	Pulse	0.30	3
Fe			2	250959.119	ug/l	1.26	17,693,250.41	2.020E+02	Analog	0.30	3
Co			2	66.391	ug/l	2.22	9,337.24	1.066E-01	Pulse	0.30	3
Ni			2	72.556	ug/l	5.54	3,480.41	3.973E-02	Pulse	0.30	3
Cu			2	102.331	ug/l	2.76	11,391.84	1.300E-01	Pulse	0.30	3
Zn			2	440.404	ug/l	3.07	12,867.39	1.469E-01	Pulse	0.30	3
As			2	70.698	ug/l	6.12	634.01	7.238E-03	Pulse	1.00	3
Cd			2	0.917	ug/l	8.05	28.83	4.903E-05	Pulse	0.30	3
Sn			2	27.811	ug/l	5.27	1,553.43	2.642E-03	Pulse	0.30	3
Se			3	7.731	ug/l	6.72	13.80	1.751E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,549,259.03	1.21	85.5	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,217,676.11	0.57	83.3	Analog	0.10	3
1	Ge		454,255.37	1.33	84.4	Pulse	0.10	3
1	Ge		626,645.88	0.53	84.8	Pulse	0.10	3
1	Rh		2,900,073.71	0.54	82.9	Analog	0.10	3
1	In		2,970,940.05	1.14	83.9	Analog	0.10	3
1	Tb		4,099,005.56	1.12	86.0	Analog	0.10	3
1	Ho		4,049,795.36	1.15	86.7	Analog	0.10	3
1	Bi		2,587,807.46	0.85	87.3	Analog	0.10	3
2	Sc		87,595.20	0.45	81.4	Pulse	0.30	3
2	Ge		58,115.31	0.21	84.4	Pulse	0.30	3
2	Ge		87,884.88	0.74	84.5	Pulse	0.30	3
2	Rh		1,462,865.18	0.25	83.5	Analog	0.30	3
2	In		588,026.30	0.27	85.0	Pulse	0.30	3
2	Tb		2,062,935.19	0.63	87.7	Analog	0.30	3
2	Ho		2,096,670.13	0.55	88.2	Analog	0.30	3
2	Bi		1,462,536.99	0.55	89.7	Analog	0.30	3
3	Sc		75,302.21	0.76	79.2	Pulse	0.30	3
3	Ge		51,752.85	0.70	81.4	Pulse	0.30	3
3	Ge		78,815.63	0.85	81.8	Pulse	0.30	3
3	Rh		859,287.90	0.61	83.1	Pulse	0.30	3
3	Tb		1,535,834.32	0.42	87.4	Analog	0.30	3

Quantitation Report

File Name	100SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:39
Sample Name	JD49491-5
Sample Type	Sample
Comment	
Prep Dilution	25.000
Auto Dilution	N/A
Total Dilution	25.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.903	ug/l	8.76	1,749.45	7.187E-04	Pulse	0.25	3
B			1	20.484	ug/l	1.94	7,979.89	3.277E-03	Pulse	0.15	3
Ca			1	5785.878	ug/l	1.61	183,258.99	8.488E-02	Pulse	0.10	3
Sr			1	71.288	ug/l	1.77	102,734.09	3.670E-02	Pulse	0.10	3
Mo			1	5.900	ug/l	11.06	1,720.15	6.145E-04	Pulse	0.10	3
Ag			1	0.701	ug/l	9.80	500.03	1.731E-04	Pulse	0.10	3
Sn			1	25.297	ug/l	7.90	12,865.71	4.458E-03	Pulse	0.10	3
Sb			1	2.109	ug/l	19.17	1,470.13	3.680E-04	Pulse	0.10	3
Ba			1	780.227	ug/l	0.66	170,197.81	4.260E-02	Pulse	0.10	3
Tl			1	1.885	ug/l	5.36	2,657.01	1.053E-03	Pulse	0.10	3
Pb			1	447.368	ug/l	2.01	210,769.44	8.354E-02	Pulse	0.10	3
Pb			1	420.328	ug/l	0.66	173,320.92	6.869E-02	Pulse	0.10	3
Pb			1	436.162	ug/l	1.38	816,394.24	3.236E-01	Pulse	0.10	3
Na			2	872.992	ug/l	0.47	29,655.15	3.438E-01	Pulse	0.30	3
Mg			2	12101.470	ug/l	1.34	177,534.09	2.058E+00	Pulse	0.30	3
Al			2	127409.469	ug/l	0.36	648,626.80	7.519E+00	Pulse	0.30	3
K			2	6682.888	ug/l	0.92	80,211.08	9.299E-01	Pulse	0.30	3
Ca			2	6143.466	ug/l	6.90	3,451.51	4.002E-02	Pulse	0.30	3
Ti			2	1455.373	ug/l	2.52	5,697.72	6.605E-02	Pulse	0.30	3
V			2	309.753	ug/l	0.80	40,953.77	4.748E-01	Pulse	0.30	3
Cr			2	169.547	ug/l	1.95	28,436.58	3.297E-01	Pulse	0.30	3
Mn			2	2375.788	ug/l	0.68	210,708.69	2.443E+00	Pulse	0.30	3
Fe			2	143540.750	ug/l	0.27	19,929,331.98	2.310E+02	Analog	0.30	3
Co			2	55.312	ug/l	0.17	15,295.67	1.773E-01	Pulse	0.30	3
Ni			2	85.061	ug/l	3.75	6,978.24	8.090E-02	Pulse	0.30	3
Cu			2	96.859	ug/l	0.71	20,323.79	2.356E-01	Pulse	0.30	3
Zn			2	539.470	ug/l	2.60	22,624.66	2.623E-01	Pulse	0.30	3
As			2	44.965	ug/l	3.16	789.69	9.155E-03	Pulse	1.00	3
Cd			2	0.698	ug/l	28.50	39.91	7.020E-05	Pulse	0.30	3
Sn			2	29.927	ug/l	0.64	3,192.59	5.615E-03	Pulse	0.30	3
Se			3	7.876	ug/l	10.25	24.40	3.138E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,435,140.64	1.01	81.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,159,106.17	0.72	81.1	Analog	0.10	3
1	Ge		434,326.53	0.71	80.7	Pulse	0.10	3
1	Ge		596,966.24	0.57	80.7	Pulse	0.10	3
1	Rh		2,799,478.92	1.02	80.0	Analog	0.10	3
1	In		2,886,173.66	1.09	81.5	Analog	0.10	3
1	Tb		3,994,823.48	0.24	83.8	Analog	0.10	3
1	Ho		3,962,708.38	0.86	84.8	Analog	0.10	3
1	Bi		2,523,222.20	0.88	85.1	Analog	0.10	3
2	Sc		86,260.21	0.32	80.2	Pulse	0.30	3
2	Ge		55,934.32	1.68	81.2	Pulse	0.30	3
2	Ge		84,420.06	0.70	81.2	Pulse	0.30	3
2	Rh		1,415,622.97	0.33	80.8	Analog	0.30	3
2	In		568,565.86	0.20	82.2	Pulse	0.30	3
2	Tb		2,020,822.42	0.55	85.9	Analog	0.30	3
2	Ho		2,044,739.78	0.49	86.1	Analog	0.30	3
2	Bi		1,442,699.56	1.42	88.5	Analog	0.30	3
3	Sc		74,951.91	1.13	78.8	Pulse	0.30	3
3	Ge		51,387.23	0.72	80.9	Pulse	0.30	3
3	Ge		77,733.75	0.81	80.7	Pulse	0.30	3
3	Rh		846,788.58	0.50	81.9	Pulse	0.30	3
3	Tb		1,541,434.32	1.29	87.8	Analog	0.30	3

Quantitation Report

File Name	101SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:42
Sample Name	JD49491-11
Sample Type	Sample
Comment	100X
Prep Dilution	100.000
Auto Dilution	N/A
Total Dilution	100.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	2.828	ug/l	37.62	522.68	2.147E-04	Pulse	0.25	3
B			1	-26.849	ug/l	-6.89	2,851.42	1.171E-03	Pulse	0.15	3
Ca			1	5978.340	ug/l	1.61	52,456.76	2.550E-02	Pulse	0.10	3
Sr			1	72.798	ug/l	2.34	26,526.04	9.497E-03	Pulse	0.10	3
Mo			1	4.517	ug/l	24.57	373.35	1.338E-04	Pulse	0.10	3
Ag			1	0.566	ug/l	21.75	113.34	3.973E-05	Pulse	0.10	3
Sn			1	12.868	ug/l	16.50	2,787.04	9.769E-04	Pulse	0.10	3
Sb			1	0.322	ug/l	107.03	333.35	8.288E-05	Pulse	0.10	3
Ba			1	620.649	ug/l	2.83	34,298.73	8.530E-03	Pulse	0.10	3
Tl			1	1.278	ug/l	17.53	573.37	2.263E-04	Pulse	0.10	3
Pb			1	300.345	ug/l	1.10	37,120.87	1.464E-02	Pulse	0.10	3
Pb			1	282.060	ug/l	1.14	30,408.94	1.200E-02	Pulse	0.10	3
Pb			1	293.798	ug/l	0.10	144,175.82	5.688E-02	Pulse	0.10	3
Na			2	618.968	ug/l	2.80	7,441.73	9.138E-02	Pulse	0.30	3
Mg			2	8647.398	ug/l	0.80	30,422.94	3.735E-01	Pulse	0.30	3
Al			2	102703.041	ug/l	1.68	123,589.43	1.518E+00	Pulse	0.30	3
K			2	5666.941	ug/l	3.52	23,968.47	2.944E-01	Pulse	0.30	3
Ca			2	6590.695	ug/l	6.06	921.15	1.131E-02	Pulse	0.30	3
Ti			2	1096.621	ug/l	2.90	1,025.60	1.259E-02	Pulse	0.30	3
V			2	318.324	ug/l	3.04	10,152.11	1.247E-01	Pulse	0.30	3
Cr			2	147.937	ug/l	5.07	6,018.03	7.390E-02	Pulse	0.30	3
Mn			2	4995.119	ug/l	1.45	104,615.53	1.285E+00	Pulse	0.30	3
Fe			2	179091.842	ug/l	1.45	5,881,675.74	7.223E+01	Analog	0.30	3
Co			2	59.110	ug/l	4.12	3,882.41	4.769E-02	Pulse	0.30	3
Ni			2	58.572	ug/l	14.19	1,749.00	2.147E-02	Pulse	0.30	3
Cu			2	73.543	ug/l	2.53	4,423.98	5.431E-02	Pulse	0.30	3
Zn			2	446.601	ug/l	5.40	8,765.77	1.077E-01	Pulse	0.30	3
As			2	47.011	ug/l	8.65	206.33	2.536E-03	Pulse	1.00	3
Cd			2	1.219	ug/l	38.25	19.97	3.547E-05	Pulse	0.30	3
Sn			2	27.733	ug/l	6.86	758.92	1.347E-03	Pulse	0.30	3
Se			3	6.483	ug/l	39.54	7.33	9.740E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,435,124.13	0.18	81.7	Analog	0.10	3
1	Sc		2,056,716.79	1.06	77.2	Analog	0.10	3
1	Ge		432,640.72	0.63	80.4	Pulse	0.10	3

Quantitation Report

1	Ge		595,701.91	0.46	80.6	Pulse	0.10	3
1	Rh		2,793,483.19	0.92	79.8	Analog	0.10	3
1	In		2,853,282.95	0.73	80.6	Analog	0.10	3
1	Tb		4,020,204.42	0.80	84.4	Analog	0.10	3
1	Ho		3,993,231.30	0.68	85.5	Analog	0.10	3
1	Bi		2,534,664.08	0.61	85.5	Analog	0.10	3
2	Sc		81,440.94	1.57	75.7	Pulse	0.30	3
2	Ge		55,189.67	0.74	80.1	Pulse	0.30	3
2	Ge		83,179.47	0.66	80.0	Pulse	0.30	3
2	Rh		1,400,614.46	0.97	80.0	Analog	0.30	3
2	In		563,268.98	0.19	81.5	Pulse	0.30	3
2	Tb		1,986,339.78	1.00	84.5	Analog	0.30	3
2	Ho		2,031,984.29	1.29	85.5	Analog	0.30	3
2	Bi		1,448,323.94	1.53	88.8	Analog	0.30	3
3	Sc		70,512.60	0.95	74.2	Pulse	0.30	3
3	Ge		49,869.26	0.47	78.5	Pulse	0.30	3
3	Ge		75,232.36	0.51	78.1	Pulse	0.30	3
3	Rh		829,528.39	0.10	80.2	Pulse	0.30	3
3	Tb		1,508,079.04	1.22	85.9	Analog	0.30	3

Quantitation Report

File Name	102_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:46
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	49.771	ug/l	1.87	348,432.94	1.496E-01	Pulse	0.25	3
B			1	95.573	ug/l	2.74	434,862.85	1.867E-01	Pulse	0.15	3
Ca			1	5048.857	ug/l	2.31	3,645,916.61	1.751E+00	Analog	0.10	3
Sr			1	50.785	ug/l	1.71	1,716,244.61	6.508E-01	Analog	0.10	3
Mo			1	49.880	ug/l	1.72	331,463.81	1.257E-01	Pulse	0.10	3
Ag			1	50.118	ug/l	1.20	826,287.51	2.984E-01	Pulse	0.10	3
Sn			1	47.917	ug/l	0.77	524,164.16	1.893E-01	Pulse	0.10	3
Sb			1	48.427	ug/l	1.51	663,243.30	1.702E-01	Pulse	0.10	3
Ba			1	47.865	ug/l	1.58	254,414.19	6.530E-02	Pulse	0.10	3
Tl			1	51.309	ug/l	1.35	1,632,472.58	6.777E-01	Analog	0.10	3
Pb			1	49.507	ug/l	1.58	553,535.11	2.298E-01	Pulse	0.10	3
Pb			1	47.999	ug/l	1.43	469,830.20	1.951E-01	Pulse	0.10	3
Pb			1	49.436	ug/l	1.50	2,195,819.80	9.116E-01	Pulse	0.10	3
Na			2	5168.971	ug/l	1.19	3,868,363.32	4.545E+01	Analog	0.30	3
Mg			2	5286.383	ug/l	0.96	1,907,193.81	2.241E+01	Analog	0.30	3
Al			2	5015.583	ug/l	1.30	629,856.09	7.400E+00	Pulse	0.30	3
K			2	5076.533	ug/l	2.70	1,313,863.42	1.544E+01	Analog	0.30	3
Ca			2	5243.669	ug/l	1.62	71,311.53	8.379E-01	Pulse	0.30	3
Ti			2	49.041	ug/l	1.73	4,739.62	5.567E-02	Pulse	0.30	3
V			2	49.132	ug/l	1.42	159,315.06	1.872E+00	Pulse	0.30	3
Cr			2	48.637	ug/l	1.56	199,882.22	2.349E+00	Pulse	0.30	3
Mn			2	49.681	ug/l	0.96	108,761.26	1.278E+00	Pulse	0.30	3
Fe			2	5156.722	ug/l	1.43	17,662,739.86	2.075E+02	Analog	0.30	3
Co			2	48.294	ug/l	0.73	328,688.42	3.862E+00	Pulse	0.30	3
Ni			2	48.345	ug/l	0.56	87,606.41	1.029E+00	Pulse	0.30	3
Cu			2	47.906	ug/l	1.57	236,495.01	2.779E+00	Pulse	0.30	3
Zn			2	47.798	ug/l	2.26	42,487.18	4.992E-01	Pulse	0.30	3
As			2	49.576	ug/l	1.74	21,038.54	2.472E-01	Pulse	1.00	3
Cd			2	49.981	ug/l	1.64	60,576.40	1.102E-01	Pulse	0.30	3
Sn			2	50.859	ug/l	0.31	129,724.06	2.361E-01	Pulse	0.30	3
Se			3	206.208	ug/l	0.37	13,625.32	1.784E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,329,855.39	2.15	78.2	Analog	0.10	3
1	Sc		2,082,120.64	1.34	78.2	Analog	0.10	3
1	Ge		417,726.82	0.65	77.6	Pulse	0.10	3

Quantitation Report

1	Ge		575,801.64	0.48	77.9	Pulse	0.10	3
1	Rh		2,637,308.50	0.57	75.4	Analog	0.10	3
1	In		2,768,652.65	0.64	78.2	Analog	0.10	3
1	Tb		3,895,913.17	0.81	81.8	Analog	0.10	3
1	Ho		3,878,373.27	0.51	83.0	Analog	0.10	3
1	Bi		2,408,747.10	0.27	81.3	Analog	0.10	3
2	Sc		85,125.77	1.84	79.1	Pulse	0.30	3
2	Ge		53,936.40	1.06	78.3	Pulse	0.30	3
2	Ge		81,086.81	1.46	78.0	Pulse	0.30	3
2	Rh		1,347,267.13	0.76	76.9	Analog	0.30	3
2	In		549,557.07	1.25	79.5	Pulse	0.30	3
2	Tb		1,962,915.34	0.33	83.5	Analog	0.30	3
2	Ho		1,986,444.57	0.82	83.6	Analog	0.30	3
2	Bi		1,372,923.52	1.17	84.2	Analog	0.30	3
3	Sc		77,988.05	0.84	82.0	Pulse	0.30	3
3	Ge		49,984.06	1.02	78.7	Pulse	0.30	3
3	Ge		76,386.74	0.63	79.3	Pulse	0.30	3
3	Rh		819,088.68	0.15	79.2	Pulse	0.30	3
3	Tb		1,515,313.34	0.97	86.3	Analog	0.30	3

Quantitation Report

File Name	103BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:49
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.014	ug/l	36.89	421.35	1.721E-04	Pulse	0.25	3
B			1	1.244	ug/l	7.96	10,032.11	4.099E-03	Pulse	0.15	3
Ca			1	1.453	ug/l	38.50	11,010.79	5.324E-03	Pulse	0.10	3
Sr			1	0.045	ug/l	4.68	2,090.21	7.516E-04	Pulse	0.10	3
Mo			1	0.057	ug/l	18.43	453.36	1.629E-04	Pulse	0.10	3
Ag			1	0.014	ug/l	25.24	250.01	8.676E-05	Pulse	0.10	3
Sn			1	0.181	ug/l	33.32	3,410.52	1.183E-03	Pulse	0.10	3
Sb			1	0.038	ug/l	14.77	820.06	2.050E-04	Pulse	0.10	3
Ba			1	0.036	ug/l	40.51	486.69	1.216E-04	Pulse	0.10	3
Tl			1	0.046	ug/l	4.64	1,673.49	6.687E-04	Pulse	0.10	3
Pb			1	0.077	ug/l	17.35	2,763.69	1.104E-03	Pulse	0.10	3
Pb			1	0.090	ug/l	12.88	2,336.96	9.340E-04	Pulse	0.10	3
Pb			1	0.078	ug/l	8.14	10,765.30	4.302E-03	Pulse	0.10	3
Na			2	2.301	ug/l	20.26	4,734.06	5.721E-02	Pulse	0.30	3
Mg			2	2.330	ug/l	20.95	1,406.74	1.700E-02	Pulse	0.30	3
Al			2	6.062	ug/l	5.11	995.60	1.203E-02	Pulse	0.30	3
K			2	8.824	ug/l	5.00	12,415.83	1.500E-01	Pulse	0.30	3
Ca			2	3.714	ug/l	60.08	114.45	1.381E-03	Pulse	0.30	3
Ti			2	0.120	ug/l	50.26	26.66	3.220E-04	Pulse	0.30	3
V			2	-0.011	ug/l	-35.44	267.79	3.235E-03	Pulse	0.30	3
Cr			2	-0.003	ug/l	-199.95	196.86	2.380E-03	Pulse	0.30	3
Mn			2	0.284	ug/l	0.54	741.14	8.955E-03	Pulse	0.30	3
Fe			2	24.526	ug/l	11.32	101,622.10	1.227E+00	Pulse	0.30	3
Co			2	0.017	ug/l	17.79	150.84	1.823E-03	Pulse	0.30	3
Ni			2	-0.013	ug/l	-280.29	731.14	8.831E-03	Pulse	0.30	3
Cu			2	0.003	ug/l	310.49	995.60	1.203E-02	Pulse	0.30	3
Zn			2	-0.746	ug/l	-14.21	5,011.94	6.056E-02	Pulse	0.30	3
As			2	0.037	ug/l	74.82	31.33	3.781E-04	Pulse	1.00	3
Cd			2	0.035	ug/l	23.27	47.75	8.505E-05	Pulse	0.30	3
Sn			2	0.521	ug/l	19.73	1,395.64	2.480E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.211	ug/l	7.74	17.13	2.237E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,448,196.95	1.23	82.2	Analog	0.10	3
1	Sc		2,067,829.66	0.40	77.7	Analog	0.10	3
1	Ge		426,078.47	1.01	79.1	Pulse	0.10	3
1	Ge		591,395.89	0.55	80.0	Pulse	0.10	3
1	Rh		2,780,971.10	0.73	79.5	Analog	0.10	3
1	In		2,878,862.95	0.84	81.3	Analog	0.10	3
1	Tb		3,999,067.96	0.53	83.9	Analog	0.10	3
1	Ho		3,975,869.42	1.04	85.1	Analog	0.10	3
1	Bi		2,502,611.47	0.72	84.4	Analog	0.10	3
2	Sc		82,765.11	0.56	76.9	Pulse	0.30	3
2	Ge		54,358.97	0.33	78.9	Pulse	0.30	3
2	Ge		81,952.23	0.81	78.8	Pulse	0.30	3
2	Rh		1,399,226.85	0.75	79.9	Analog	0.30	3
2	In		562,160.76	0.92	81.3	Pulse	0.30	3
2	Tb		1,996,777.63	0.38	84.9	Analog	0.30	3
2	Ho		2,032,998.46	0.82	85.6	Analog	0.30	3
2	Bi		1,402,993.17	1.22	86.0	Analog	0.30	3
3	Sc		73,590.47	0.83	77.4	Pulse	0.30	3
3	Ge		50,541.36	0.77	79.5	Pulse	0.30	3
3	Ge		76,570.77	1.23	79.5	Pulse	0.30	3
3	Rh		846,165.85	0.42	81.8	Pulse	0.30	3
3	Tb		1,527,156.15	0.77	86.9	Analog	0.30	3

Quantitation Report

File Name	104SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:53
Sample Name	mp34484-s1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	184.683	ug/l	1.56	267,197.87	1.110E-01	Pulse	0.25	3
B			1	207.356	ug/l	2.24	197,243.26	8.197E-02	Pulse	0.15	3
Ca			1	50599.948	ug/l	0.61	8,041,399.05	3.506E+00	Analog	0.10	3
Sr			1	362.499	ug/l	1.48	2,517,007.83	9.290E-01	Analog	0.10	3
Mo			1	152.025	ug/l	0.42	207,588.83	7.662E-02	Pulse	0.10	3
Ag			1	18.814	ug/l	2.22	64,130.34	2.241E-02	Pulse	0.10	3
Sn			1	110.425	ug/l	1.20	250,405.50	8.751E-02	Pulse	0.10	3
Sb			1	11.315	ug/l	0.66	32,558.09	8.024E-03	Pulse	0.10	3
Ba			1	2324.625	ug/l	1.21	2,571,000.38	6.337E-01	Analog	0.10	3
Tl			1	175.831	ug/l	0.87	1,166,864.33	4.645E-01	Pulse	0.10	3
Pb			1	1273.327	ug/l	1.46	2,961,493.39	1.179E+00	Analog	0.10	3
Pb			1	1231.551	ug/l	0.95	2,508,361.89	9.986E-01	Analog	0.10	3
Pb			1	1239.575	ug/l	1.37	11,454,419.57	4.560E+00	Analog	0.10	3
Na			2	9609.993	ug/l	0.80	1,591,444.69	1.692E+01	Analog	0.30	3
Mg			2	50621.543	ug/l	0.76	4,034,665.81	4.291E+01	Analog	0.30	3
Al			2	101760.403	ug/l	0.54	2,822,964.82	3.002E+01	Analog	0.30	3
K			2	28606.814	ug/l	0.52	1,634,831.29	1.738E+01	Analog	0.30	3
Ca			2	53491.972	ug/l	0.61	160,682.21	1.709E+00	Pulse	0.30	3
Ti			2	1740.634	ug/l	0.83	37,058.08	3.941E-01	Pulse	0.30	3
V			2	335.783	ug/l	0.30	240,480.88	2.557E+00	Pulse	0.30	3
Cr			2	292.654	ug/l	0.81	265,723.00	2.826E+00	Pulse	0.30	3
Mn			2	2841.563	ug/l	1.30	1,372,896.47	1.460E+01	Analog	0.30	3
Fe			2	102899.719	ug/l	0.28	77,815,052.46	8.275E+02	Analog	0.30	3
Co			2	201.947	ug/l	0.75	303,706.00	3.230E+00	Pulse	0.30	3
Ni			2	244.403	ug/l	1.03	97,842.29	1.040E+00	Pulse	0.30	3
Cu			2	573.604	ug/l	0.49	624,199.00	6.638E+00	Pulse	0.30	3
Zn			2	2224.901	ug/l	0.27	384,463.85	4.088E+00	Pulse	0.30	3
As			2	211.586	ug/l	0.71	19,844.72	2.110E-01	Pulse	1.00	3
Cd			2	179.870	ug/l	0.39	45,353.28	7.935E-02	Pulse	0.30	3
Sn			2	118.691	ug/l	1.09	62,991.68	1.102E-01	Pulse	0.30	3
Se			3	453.582	ug/l	0.13	6,106.47	7.850E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,406,311.28	0.36	80.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,293,875.90	0.71	86.2	Analog	0.10	3
1	Ge		435,173.21	0.95	80.8	Pulse	0.10	3
1	Ge		590,180.18	1.00	79.8	Pulse	0.10	3
1	Rh		2,709,424.54	0.66	77.4	Analog	0.10	3
1	In		2,861,462.25	0.68	80.8	Analog	0.10	3
1	Tb		4,057,535.88	1.37	85.2	Analog	0.10	3
1	Ho		4,025,488.38	0.83	86.2	Analog	0.10	3
1	Bi		2,512,028.40	0.61	84.8	Analog	0.10	3
2	Sc		94,038.63	0.55	87.4	Pulse	0.30	3
2	Ge		58,311.56	1.21	84.7	Pulse	0.30	3
2	Ge		84,821.19	1.18	81.6	Pulse	0.30	3
2	Rh		1,386,543.84	0.55	79.2	Analog	0.30	3
2	In		571,543.60	0.87	82.7	Pulse	0.30	3
2	Tb		2,048,363.04	1.06	87.1	Analog	0.30	3
2	Ho		2,085,007.14	0.35	87.8	Analog	0.30	3
2	Bi		1,408,231.09	1.11	86.3	Analog	0.30	3
3	Sc		83,720.86	0.67	88.1	Pulse	0.30	3
3	Ge		52,207.51	1.08	82.1	Pulse	0.30	3
3	Ge		77,794.16	0.79	80.7	Pulse	0.30	3
3	Rh		831,805.02	0.21	80.4	Pulse	0.30	3
3	Tb		1,577,970.39	0.65	89.8	Analog	0.30	3

Quantitation Report

File Name	105SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 19:57
Sample Name	mp34484-s2
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	185.790	ug/l	1.05	275,365.20	1.117E-01	Pulse	0.25	3
B			1	208.207	ug/l	1.71	202,882.12	8.230E-02	Pulse	0.15	3
Ca			1	50138.835	ug/l	1.55	8,175,622.59	3.474E+00	Analog	0.10	3
Sr			1	350.710	ug/l	1.15	2,528,774.96	8.988E-01	Analog	0.10	3
Mo			1	155.465	ug/l	0.46	220,440.01	7.835E-02	Pulse	0.10	3
Ag			1	10.609	ug/l	3.93	36,907.38	1.264E-02	Pulse	0.10	3
Sn			1	109.585	ug/l	2.51	253,593.90	8.685E-02	Pulse	0.10	3
Sb			1	10.542	ug/l	3.74	31,034.77	7.480E-03	Pulse	0.10	3
Ba			1	2309.563	ug/l	0.65	2,612,221.37	6.296E-01	Analog	0.10	3
Tl			1	177.153	ug/l	1.95	1,195,383.63	4.680E-01	Mix	0.10	3
Pb			1	1257.257	ug/l	1.28	2,973,306.93	1.164E+00	Analog	0.10	3
Pb			1	1206.582	ug/l	0.58	2,498,805.90	9.783E-01	Analog	0.10	3
Pb			1	1223.433	ug/l	0.99	11,495,307.12	4.501E+00	Analog	0.10	3
Na			2	9888.905	ug/l	0.27	1,653,230.18	1.741E+01	Analog	0.30	3
Mg			2	50505.556	ug/l	1.33	4,063,941.64	4.281E+01	Analog	0.30	3
Al			2	102515.848	ug/l	1.32	2,871,065.09	3.024E+01	Analog	0.30	3
K			2	29180.583	ug/l	0.27	1,683,410.42	1.773E+01	Analog	0.30	3
Ca			2	53109.100	ug/l	0.72	161,064.57	1.696E+00	Pulse	0.30	3
Ti			2	1757.720	ug/l	1.13	37,781.81	3.979E-01	Pulse	0.30	3
V			2	342.539	ug/l	0.37	247,664.68	2.609E+00	Pulse	0.30	3
Cr			2	293.624	ug/l	0.60	269,164.70	2.835E+00	Pulse	0.30	3
Mn			2	2831.589	ug/l	1.00	1,381,243.45	1.455E+01	Analog	0.30	3
Fe			2	104116.501	ug/l	0.40	79,491,030.18	8.373E+02	Analog	0.30	3
Co			2	205.050	ug/l	0.53	311,328.71	3.279E+00	Pulse	0.30	3
Ni			2	249.706	ug/l	1.26	100,905.03	1.063E+00	Pulse	0.30	3
Cu			2	573.970	ug/l	0.44	630,596.24	6.642E+00	Pulse	0.30	3
Zn			2	2213.706	ug/l	0.58	386,230.62	4.068E+00	Pulse	0.30	3
As			2	219.196	ug/l	0.74	20,755.83	2.186E-01	Pulse	1.00	3
Cd			2	177.205	ug/l	0.95	45,858.54	7.818E-02	Pulse	0.30	3
Sn			2	117.512	ug/l	0.47	64,010.28	1.091E-01	Pulse	0.30	3
Se			3	455.329	ug/l	0.51	6,285.01	7.880E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,465,099.02	0.53	82.7	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,353,985.69	1.93	88.4	Analog	0.10	3
1	Ge		454,286.62	0.30	84.4	Pulse	0.10	3
1	Ge		615,032.36	0.55	83.2	Pulse	0.10	3
1	Rh		2,813,534.44	0.86	80.4	Analog	0.10	3
1	In		2,920,887.55	1.76	82.5	Analog	0.10	3
1	Tb		4,149,164.11	0.63	87.1	Analog	0.10	3
1	Ho		4,137,151.19	0.87	88.6	Analog	0.10	3
1	Bi		2,554,190.06	0.68	86.2	Analog	0.10	3
2	Sc		94,942.76	0.80	88.2	Pulse	0.30	3
2	Ge		59,730.90	1.48	86.7	Pulse	0.30	3
2	Ge		88,341.75	0.58	84.9	Pulse	0.30	3
2	Rh		1,412,342.79	2.20	80.7	Analog	0.30	3
2	In		586,636.33	0.79	84.8	Pulse	0.30	3
2	Tb		2,085,776.03	0.72	88.7	Analog	0.30	3
2	Ho		2,108,288.18	0.72	88.7	Analog	0.30	3
2	Bi		1,437,208.87	0.71	88.1	Analog	0.30	3
3	Sc		83,056.51	1.45	87.4	Pulse	0.30	3
3	Ge		54,058.02	0.65	85.1	Pulse	0.30	3
3	Ge		79,762.67	0.93	82.8	Pulse	0.30	3
3	Rh		848,860.31	0.71	82.1	Pulse	0.30	3
3	Tb		1,570,467.40	0.84	89.4	Analog	0.30	3

Quantitation Report

File Name	106SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:00
Sample Name	JD49193-5
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.853	ug/l	0.25	7,884.60	3.045E-03	Pulse	0.25	3
B			1	61.928	ug/l	2.51	66,460.81	2.567E-02	Pulse	0.15	3
Ca			1	44153.224	ug/l	1.05	7,387,591.35	3.060E+00	Analog	0.10	3
Sr			1	177.369	ug/l	0.74	1,317,154.12	4.546E-01	Analog	0.10	3
Mo			1	6.103	ug/l	6.77	8,966.21	3.095E-03	Pulse	0.10	3
Ag			1	3.403	ug/l	2.29	12,095.02	4.059E-03	Pulse	0.10	3
Sn			1	36.431	ug/l	1.37	86,963.81	2.919E-02	Pulse	0.10	3
Sb			1	5.502	ug/l	3.72	16,752.84	3.938E-03	Pulse	0.10	3
Ba			1	2256.081	ug/l	0.56	2,616,521.00	6.150E-01	Analog	0.10	3
Tl			1	1.309	ug/l	4.31	9,026.44	3.515E-03	Pulse	0.10	3
Pb			1	1162.329	ug/l	0.85	2,763,710.07	1.076E+00	Analog	0.10	3
Pb			1	1109.271	ug/l	1.40	2,309,736.06	8.995E-01	Analog	0.10	3
Pb			1	1128.723	ug/l	1.01	10,662,984.58	4.153E+00	Analog	0.10	3
Na			2	1115.272	ug/l	1.59	191,260.04	1.997E+00	Pulse	0.30	3
Mg			2	42778.450	ug/l	1.56	3,473,269.37	3.626E+01	Analog	0.30	3
Al			2	87071.644	ug/l	1.14	2,460,585.94	2.569E+01	Analog	0.30	3
K			2	17691.124	ug/l	1.07	1,034,374.96	1.080E+01	Pulse	0.30	3
Ca			2	46192.203	ug/l	1.52	141,348.88	1.476E+00	Pulse	0.30	3
Ti			2	2422.937	ug/l	2.32	52,533.82	5.485E-01	Pulse	0.30	3
V			2	208.972	ug/l	1.41	152,578.55	1.593E+00	Pulse	0.30	3
Cr			2	144.525	ug/l	0.95	133,802.56	1.397E+00	Pulse	0.30	3
Mn			2	2814.810	ug/l	1.56	1,385,340.43	1.446E+01	Analog	0.30	3
Fe			2	119780.943	ug/l	1.36	92,265,840.78	9.632E+02	Analog	0.30	3
Co			2	45.092	ug/l	1.55	69,106.94	7.214E-01	Pulse	0.30	3
Ni			2	97.778	ug/l	1.71	40,397.30	4.217E-01	Pulse	0.30	3
Cu			2	471.664	ug/l	1.53	523,023.02	5.460E+00	Pulse	0.30	3
Zn			2	2214.545	ug/l	0.93	389,845.20	4.070E+00	Pulse	0.30	3
As			2	58.218	ug/l	1.89	5,575.30	5.821E-02	Pulse	1.00	3
Cd			2	5.125	ug/l	5.77	1,364.02	2.269E-03	Pulse	0.30	3
Sn			2	40.370	ug/l	2.09	22,559.57	3.753E-02	Pulse	0.30	3
Se			3	5.149	ug/l	5.89	76.40	9.319E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,589,738.10	1.12	86.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,414,590.48	0.50	90.7	Analog	0.10	3
1	Ge		467,946.36	1.06	86.9	Pulse	0.10	3
1	Ge		631,587.27	1.02	85.4	Pulse	0.10	3
1	Rh		2,897,096.21	0.59	82.8	Analog	0.10	3
1	In		2,979,665.39	0.45	84.2	Analog	0.10	3
1	Tb		4,254,512.43	0.64	89.3	Analog	0.10	3
1	Ho		4,163,847.44	0.33	89.1	Analog	0.10	3
1	Bi		2,567,801.11	0.20	86.6	Analog	0.10	3
2	Sc		95,802.04	1.37	89.0	Pulse	0.30	3
2	Ge		60,897.26	1.32	88.4	Pulse	0.30	3
2	Ge		89,378.47	0.88	85.9	Pulse	0.30	3
2	Rh		1,466,576.16	0.58	83.7	Analog	0.30	3
2	In		601,173.57	0.57	86.9	Pulse	0.30	3
2	Tb		2,115,637.90	0.99	90.0	Analog	0.30	3
2	Ho		2,146,692.35	0.58	90.4	Analog	0.30	3
2	Bi		1,448,836.99	0.51	88.8	Analog	0.30	3
3	Sc		84,819.86	0.30	89.2	Pulse	0.30	3
3	Ge		55,311.07	0.91	87.0	Pulse	0.30	3
3	Ge		81,945.60	1.36	85.0	Pulse	0.30	3
3	Rh		871,479.36	0.87	84.2	Pulse	0.30	3
3	Tb		1,598,028.62	1.33	91.0	Analog	0.30	3

Quantitation Report

File Name	107SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:04
Sample Name	mp34484-sd1
Sample Type	Sample
Comment	
Prep Dilution	25.000
Auto Dilution	N/A
Total Dilution	25.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.048	ug/l	10.59	1,645.44	6.160E-04	Pulse	0.25	3
B			1	47.648	ug/l	5.19	14,384.25	5.380E-03	Pulse	0.15	3
Ca			1	42689.588	ug/l	1.42	1,368,785.81	5.955E-01	Analog	0.10	3
Sr			1	152.516	ug/l	0.44	235,132.12	7.833E-02	Pulse	0.10	3
Mo			1	5.488	ug/l	3.96	1,720.15	5.730E-04	Pulse	0.10	3
Ag			1	2.823	ug/l	4.02	2,086.90	6.785E-04	Pulse	0.10	3
Sn			1	29.889	ug/l	2.60	15,931.94	5.182E-03	Pulse	0.10	3
Sb			1	5.043	ug/l	3.20	3,313.80	7.804E-04	Pulse	0.10	3
Ba			1	1997.529	ug/l	0.63	462,688.83	1.090E-01	Pulse	0.10	3
Tl			1	1.458	ug/l	2.59	2,206.92	8.279E-04	Pulse	0.10	3
Pb			1	992.517	ug/l	0.86	491,553.43	1.844E-01	Pulse	0.10	3
Pb			1	941.795	ug/l	1.02	408,336.84	1.532E-01	Pulse	0.10	3
Pb			1	969.214	ug/l	0.66	1,907,081.32	7.155E-01	Pulse	0.10	3
Na			2	1046.552	ug/l	3.25	37,588.58	4.048E-01	Pulse	0.30	3
Mg			2	40716.121	ug/l	1.84	641,588.69	6.908E+00	Pulse	0.30	3
Al			2	82285.030	ug/l	1.93	451,144.60	4.857E+00	Pulse	0.30	3
K			2	16664.181	ug/l	2.57	198,232.35	2.134E+00	Pulse	0.30	3
Ca			2	44819.737	ug/l	0.58	26,659.27	2.870E-01	Pulse	0.30	3
Ti			2	2348.631	ug/l	2.41	9,889.73	1.065E-01	Pulse	0.30	3
V			2	199.487	ug/l	1.91	28,519.06	3.071E-01	Pulse	0.30	3
Cr			2	141.648	ug/l	2.40	25,618.24	2.758E-01	Pulse	0.30	3
Mn			2	2700.797	ug/l	1.84	257,895.01	2.777E+00	Pulse	0.30	3
Fe			2	117407.048	ug/l	1.59	17,555,653.19	1.890E+02	Analog	0.30	3
Co			2	43.849	ug/l	0.85	13,065.72	1.407E-01	Pulse	0.30	3
Ni			2	94.799	ug/l	3.89	8,275.49	8.912E-02	Pulse	0.30	3
Cu			2	458.529	ug/l	1.54	99,488.51	1.071E+00	Pulse	0.30	3
Zn			2	2223.897	ug/l	2.17	80,908.16	8.711E-01	Pulse	0.30	3
As			2	52.849	ug/l	3.09	996.37	1.073E-02	Pulse	1.00	3
Cd			2	5.031	ug/l	17.45	282.12	4.524E-04	Pulse	0.30	3
Sn			2	37.308	ug/l	2.42	4,356.20	6.985E-03	Pulse	0.30	3
Se			3	4.511	ug/l	15.22	16.20	1.974E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,674,786.08	2.30	89.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,298,562.31	0.82	86.3	Analog	0.10	3
1	Ge		470,510.03	0.90	87.4	Pulse	0.10	3
1	Ge		646,695.60	0.27	87.5	Pulse	0.10	3
1	Rh		3,001,840.27	0.62	85.8	Analog	0.10	3
1	In		3,074,653.98	1.75	86.9	Analog	0.10	3
1	Tb		4,246,276.39	0.45	89.1	Analog	0.10	3
1	Ho		4,222,898.69	1.09	90.4	Analog	0.10	3
1	Bi		2,665,411.53	0.97	89.9	Analog	0.10	3
2	Sc		92,896.58	1.91	86.3	Pulse	0.30	3
2	Ge		62,232.36	0.64	90.4	Pulse	0.30	3
2	Ge		92,531.53	0.73	89.0	Pulse	0.30	3
2	Rh		1,518,489.38	0.16	86.7	Analog	0.30	3
2	In		623,620.85	0.32	90.2	Pulse	0.30	3
2	Tb		2,138,780.40	0.83	91.0	Analog	0.30	3
2	Ho		2,174,703.59	0.31	91.5	Analog	0.30	3
2	Bi		1,507,720.70	1.08	92.4	Analog	0.30	3
3	Sc		79,665.72	0.23	83.8	Pulse	0.30	3
3	Ge		54,873.96	0.92	86.3	Pulse	0.30	3
3	Ge		82,071.50	0.81	85.2	Pulse	0.30	3
3	Rh		900,521.67	0.39	87.0	Pulse	0.30	3
3	Tb		1,603,965.77	0.14	91.3	Analog	0.30	3

Quantitation Report

File Name	108SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:08
Sample Name	mp34484-ps1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	217.685	ug/l	0.71	340,467.84	1.309E-01	Pulse	0.25	3
B			1	256.564	ug/l	1.99	262,824.02	1.010E-01	Pulse	0.15	3
Ca			1	55704.802	ug/l	0.21	9,391,962.15	3.859E+00	Analog	0.10	3
Sr			1	404.144	ug/l	1.24	2,943,701.10	1.036E+00	Analog	0.10	3
Mo			1	217.451	ug/l	1.35	311,460.74	1.096E-01	Pulse	0.10	3
Ag			1	118.562	ug/l	1.30	421,254.47	1.412E-01	Pulse	0.10	3
Sn			1	243.060	ug/l	0.32	572,923.01	1.921E-01	Pulse	0.10	3
Sb			1	214.670	ug/l	0.89	628,027.20	1.509E-01	Pulse	0.10	3
Ba			1	2583.759	ug/l	0.53	2,930,448.19	7.043E-01	Analog	0.10	3
Tl			1	215.073	ug/l	0.71	1,463,012.01	5.682E-01	Analog	0.10	3
Pb			1	1383.159	ug/l	1.37	3,297,275.89	1.281E+00	Analog	0.10	3
Pb			1	1343.480	ug/l	0.21	2,804,846.00	1.089E+00	Analog	0.10	3
Pb			1	1360.445	ug/l	1.06	12,885,432.21	5.004E+00	Analog	0.10	3
Na			2	11248.991	ug/l	1.11	1,922,052.22	1.980E+01	Analog	0.30	3
Mg			2	54105.780	ug/l	1.86	4,450,786.21	4.586E+01	Analog	0.30	3
Al			2	99125.333	ug/l	1.51	2,838,172.53	2.924E+01	Analog	0.30	3
K			2	28956.698	ug/l	2.06	1,707,722.50	1.760E+01	Analog	0.30	3
Ca			2	58384.473	ug/l	1.21	181,004.17	1.865E+00	Pulse	0.30	3
Ti			2	2693.679	ug/l	0.96	59,183.77	6.097E-01	Pulse	0.30	3
V			2	419.225	ug/l	0.57	309,802.86	3.192E+00	Pulse	0.30	3
Cr			2	348.562	ug/l	1.19	326,613.57	3.365E+00	Pulse	0.30	3
Mn			2	3059.996	ug/l	2.04	1,525,909.80	1.572E+01	Analog	0.30	3
Fe			2	131209.241	ug/l	1.29	102,406,267.04	1.055E+03	Analog	0.30	3
Co			2	243.657	ug/l	1.59	378,191.59	3.897E+00	Pulse	0.30	3
Ni			2	294.602	ug/l	1.40	121,548.12	1.252E+00	Pulse	0.30	3
Cu			2	670.701	ug/l	1.35	753,104.12	7.759E+00	Pulse	0.30	3
Zn			2	2422.379	ug/l	1.17	431,456.74	4.445E+00	Pulse	0.30	3
As			2	264.731	ug/l	0.15	25,624.03	2.640E-01	Pulse	1.00	3
Cd			2	212.488	ug/l	0.61	56,054.85	9.374E-02	Pulse	0.30	3
Sn			2	254.789	ug/l	0.04	141,439.34	2.365E-01	Pulse	0.30	3
Se			3	585.142	ug/l	1.11	8,343.99	1.013E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,601,728.15	1.04	87.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,433,866.32	0.47	91.4	Analog	0.10	3
1	Ge		471,266.58	0.98	87.5	Pulse	0.10	3
1	Ge		637,921.13	0.89	86.3	Pulse	0.10	3
1	Rh		2,842,506.10	1.17	81.2	Analog	0.10	3
1	In		2,983,174.48	0.46	84.3	Analog	0.10	3
1	Tb		4,160,817.02	1.01	87.3	Analog	0.10	3
1	Ho		4,159,227.12	1.24	89.0	Analog	0.10	3
1	Bi		2,574,996.94	1.09	86.9	Analog	0.10	3
2	Sc		97,065.66	0.88	90.2	Pulse	0.30	3
2	Ge		61,620.03	1.82	89.5	Pulse	0.30	3
2	Ge		90,427.38	0.71	86.9	Pulse	0.30	3
2	Rh		1,444,464.07	0.39	82.5	Analog	0.30	3
2	In		598,014.51	0.96	86.5	Pulse	0.30	3
2	Tb		2,117,036.37	0.58	90.0	Analog	0.30	3
2	Ho		2,158,977.97	1.06	90.9	Analog	0.30	3
2	Bi		1,430,257.13	0.57	87.7	Analog	0.30	3
3	Sc		86,427.96	0.25	90.9	Pulse	0.30	3
3	Ge		55,200.66	1.10	86.9	Pulse	0.30	3
3	Ge		82,415.53	1.33	85.5	Pulse	0.30	3
3	Rh		869,934.83	0.67	84.1	Pulse	0.30	3
3	Tb		1,604,867.68	0.72	91.4	Analog	0.30	3

Quantitation Report

File Name	109SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:11
Sample Name	JD49400-1
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.881	ug/l	13.32	1,712.11	6.590E-04	Pulse	0.25	3
B			1	12.758	ug/l	6.22	17,231.27	6.630E-03	Pulse	0.15	3
Ca			1	104019.228	ug/l	0.62	16,318,423.51	7.202E+00	Analog	0.10	3
Sr			1	83.313	ug/l	0.41	620,378.94	2.136E-01	Pulse	0.10	3
Mo			1	2.709	ug/l	3.40	4,020.67	1.385E-03	Pulse	0.10	3
Ag			1	0.115	ug/l	18.54	433.36	1.426E-04	Pulse	0.10	3
Sn			1	13.019	ug/l	1.21	32,631.50	1.073E-02	Pulse	0.10	3
Sb			1	0.679	ug/l	9.33	2,336.93	5.486E-04	Pulse	0.10	3
Ba			1	255.532	ug/l	0.73	297,159.66	6.972E-02	Pulse	0.10	3
Tl			1	0.289	ug/l	2.76	2,173.56	8.219E-04	Pulse	0.10	3
Pb			1	37.046	ug/l	2.27	92,653.53	3.503E-02	Pulse	0.10	3
Pb			1	33.531	ug/l	1.25	73,369.32	2.774E-02	Pulse	0.10	3
Pb			1	35.415	ug/l	0.96	351,982.09	1.331E-01	Pulse	0.10	3
Na			2	333.610	ug/l	0.76	55,171.67	6.232E-01	Pulse	0.30	3
Mg			2	31262.153	ug/l	1.04	2,346,004.70	2.650E+01	Analog	0.30	3
Al			2	26643.455	ug/l	0.49	696,038.46	7.862E+00	Pulse	0.30	3
K			2	3284.648	ug/l	0.74	186,385.08	2.105E+00	Pulse	0.30	3
Ca			2	109197.577	ug/l	0.58	308,729.81	3.487E+00	Pulse	0.30	3
Ti			2	182.723	ug/l	0.40	3,677.11	4.153E-02	Pulse	0.30	3
V			2	262.858	ug/l	0.50	177,298.66	2.003E+00	Pulse	0.30	3
Cr			2	30.569	ug/l	1.10	26,333.10	2.974E-01	Pulse	0.30	3
Mn			2	816.525	ug/l	0.39	371,520.87	4.196E+00	Pulse	0.30	3
Fe			2	42590.343	ug/l	1.00	30,334,336.57	3.426E+02	Analog	0.30	3
Co			2	18.542	ug/l	1.71	26,285.99	2.969E-01	Pulse	0.30	3
Ni			2	125.489	ug/l	0.33	47,689.88	5.387E-01	Pulse	0.30	3
Cu			2	58.453	ug/l	1.83	60,823.03	6.870E-01	Pulse	0.30	3
Zn			2	802.628	ug/l	0.60	134,383.26	1.518E+00	Pulse	0.30	3
As			2	80.454	ug/l	1.17	7,114.90	8.036E-02	Pulse	1.00	3
Cd			2	0.229	ug/l	32.20	65.34	1.096E-04	Pulse	0.30	3
Sn			2	14.902	ug/l	1.95	8,280.03	1.389E-02	Pulse	0.30	3
Se			3	1.834	ug/l	6.08	28.67	3.585E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,599,901.46	1.17	87.2	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,266,064.08	1.84	85.1	Analog	0.10	3
1	Ge		459,068.39	1.11	85.3	Pulse	0.10	3
1	Ge		633,818.93	1.53	85.7	Pulse	0.10	3
1	Rh		2,903,855.37	0.77	83.0	Analog	0.10	3
1	In		3,040,543.16	0.85	85.9	Analog	0.10	3
1	Tb		4,262,405.98	1.44	89.5	Analog	0.10	3
1	Ho		4,222,768.37	1.53	90.4	Analog	0.10	3
1	Bi		2,645,036.99	1.10	89.2	Analog	0.10	3
2	Sc		88,532.26	0.44	82.3	Pulse	0.30	3
2	Ge		58,147.54	1.63	84.4	Pulse	0.30	3
2	Ge		86,995.75	0.55	83.6	Pulse	0.30	3
2	Rh		1,427,783.35	1.13	81.5	Analog	0.30	3
2	In		596,097.43	0.53	86.2	Pulse	0.30	3
2	Tb		2,089,058.18	1.12	88.9	Analog	0.30	3
2	Ho		2,125,609.50	0.53	89.5	Analog	0.30	3
2	Bi		1,461,672.51	0.38	89.6	Analog	0.30	3
3	Sc		77,326.86	1.01	81.3	Pulse	0.30	3
3	Ge		52,758.21	0.61	83.0	Pulse	0.30	3
3	Ge		79,960.29	0.85	83.0	Pulse	0.30	3
3	Rh		862,722.99	0.19	83.4	Pulse	0.30	3
3	Tb		1,570,520.15	0.93	89.4	Analog	0.30	3

Quantitation Report

File Name	110SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:15
Sample Name	emptyconf
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	30.679	ug/l	25.37	142.67	9.342E-03	Pulse	0.25	3
B			1	1405.442	ug/l	4.07	4,178.40	2.738E-01	Pulse	0.15	3
Ca			1	15221.015	ug/l	5.98	6,738.34	5.314E-01	Pulse	0.10	3
Sr			1	300.135	ug/l	15.01	196.68	3.847E-01	Pulse	0.10	3
Mo			1	1214.242	ug/l	15.89	153.34	3.059E-01	Pulse	0.10	3
Ag			1	19.281	ug/l	23.08	20.00	1.149E-02	Pulse	0.10	3
Sn			1	1270.718	ug/l	20.01	876.72	5.013E-01	Pulse	0.10	3
Sb			1	624.201	ug/l	36.95	133.34	2.194E-01	Pulse	0.10	3
Ba			1	634.755	ug/l	19.37	56.67	8.658E-02	Pulse	0.10	3
Tl			1	109.121	ug/l	11.91	440.03	1.442E-01	Pulse	0.10	3
Pb			1	312.839	ug/l	3.69	446.69	1.455E-01	Pulse	0.10	3
Pb			1	226.261	ug/l	34.93	280.01	9.225E-02	Pulse	0.10	3
Pb			1	277.326	ug/l	13.84	1,563.43	5.127E-01	Pulse	0.10	3
Na			2	9007.287	ug/l	23.53	2,420.21	7.950E+00	Pulse	0.30	3
Mg			2	3213.637	ug/l	34.19	408.90	1.369E+00	Pulse	0.30	3
Al			2	5052.865	ug/l	67.76	222.26	7.483E-01	Pulse	0.30	3
K			2	132651.556	ug/l	24.10	12,196.77	4.014E+01	Pulse	0.30	3
Ca			2	7809.079	ug/l	52.07	37.78	1.255E-01	Pulse	0.30	3
Ti			2	-1.643	ug/l	0.00	0.00	0.000E+00	Pulse	0.30	3
V			2	240.373	ug/l	47.09	266.67	9.177E-01	Pulse	0.30	3
Cr			2	61.292	ug/l	34.57	89.78	2.982E-01	Pulse	0.30	3
Mn			2	204.455	ug/l	47.68	154.44	5.268E-01	Pulse	0.30	3
Fe			2	9222.301	ug/l	30.36	11,211.86	3.731E+01	Pulse	0.30	3
Co			2	13.080	ug/l	39.50	31.08	1.050E-01	Pulse	0.30	3
Ni			2	239.525	ug/l	42.93	151.11	5.145E-01	Pulse	0.30	3
Cu			2	273.362	ug/l	18.89	488.90	1.591E+00	Pulse	0.30	3
Zn			2	687.144	ug/l	28.56	208.89	6.882E-01	Pulse	0.30	3
As			2	95.440	ug/l	18.61	14.67	4.774E-02	Pulse	1.00	3
Cd			2	145.195	ug/l	21.50	11.11	3.203E-02	Pulse	0.30	3
Sn			2	1186.720	ug/l	11.22	192.23	5.507E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	101.765	ug/l	26.49	2.13	8.842E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		15,263.93	0.29	0.5	Pulse	0.10	3
1	Sc		12,708.68	5.52	0.5	Pulse	0.10	3
1	Ge		3,000.41	3.76	0.6	Pulse	0.10	3
1	Ge		2,193.61	3.88	0.3	Pulse	0.10	3
1	Rh		503.36	16.90	0.0	Pulse	0.10	3
1	In		1,798.36	20.80	0.1	Pulse	0.10	3
1	Tb		653.37	29.54	0.0	Pulse	0.10	3
1	Ho		760.05	15.79	0.0	Pulse	0.10	3
1	Bi		3,070.46	7.68	0.1	Pulse	0.10	3
2	Sc		317.79	27.56	0.3	Pulse	0.30	3
2	Ge		221.12	3.48	0.3	Pulse	0.30	3
2	Ge		243.34	17.49	0.2	Pulse	0.30	3
2	Rh		251.12	27.22	0.0	Pulse	0.30	3
2	In		354.11	19.49	0.1	Pulse	0.30	3
2	Tb		393.34	27.42	0.0	Pulse	0.30	3
2	Ho		328.90	15.21	0.0	Pulse	0.30	3
2	Bi		1,546.77	6.79	0.1	Pulse	0.30	3
3	Sc		234.45	29.15	0.2	Pulse	0.30	3
3	Ge		160.00	4.17	0.3	Pulse	0.30	3
3	Ge		238.89	10.09	0.2	Pulse	0.30	3
3	Rh		148.89	10.34	0.0	Pulse	0.30	3
3	Tb		248.89	10.14	0.0	Pulse	0.30	3

Quantitation Report

File Name	111_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:19
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.131	ug/l	0.38	392,620.88	1.507E-01	Pulse	0.25	3
B			1	95.692	ug/l	1.35	487,162.03	1.869E-01	Pulse	0.15	3
Ca			1	5113.487	ug/l	1.32	4,095,433.90	1.774E+00	Analog	0.10	3
Sr			1	51.063	ug/l	1.23	1,911,119.50	6.544E-01	Analog	0.10	3
Mo			1	49.828	ug/l	0.44	366,715.02	1.255E-01	Pulse	0.10	3
Ag			1	50.647	ug/l	2.02	911,140.07	3.016E-01	Pulse	0.10	3
Sn			1	47.739	ug/l	1.83	569,806.96	1.886E-01	Pulse	0.10	3
Sb			1	48.914	ug/l	0.98	728,756.50	1.720E-01	Pulse	0.10	3
Ba			1	47.746	ug/l	0.70	276,038.25	6.514E-02	Pulse	0.10	3
Tl			1	52.322	ug/l	1.33	1,774,887.42	6.911E-01	Analog	0.10	3
Pb			1	49.565	ug/l	0.46	590,912.15	2.301E-01	Pulse	0.10	3
Pb			1	48.307	ug/l	0.47	504,192.61	1.963E-01	Pulse	0.10	3
Pb			1	50.416	ug/l	1.25	2,387,437.21	9.296E-01	Analog	0.10	3
Na			2	5224.943	ug/l	0.67	4,286,125.80	4.594E+01	Analog	0.30	3
Mg			2	5259.986	ug/l	0.99	2,079,942.56	2.229E+01	Analog	0.30	3
Al			2	5090.331	ug/l	0.26	700,692.35	7.511E+00	Pulse	0.30	3
K			2	5237.988	ug/l	1.98	1,485,761.47	1.593E+01	Analog	0.30	3
Ca			2	5352.190	ug/l	0.77	79,787.40	8.552E-01	Pulse	0.30	3
Ti			2	52.487	ug/l	2.25	5,557.66	5.957E-02	Pulse	0.30	3
V			2	50.807	ug/l	0.65	180,579.32	1.936E+00	Pulse	0.30	3
Cr			2	50.228	ug/l	0.85	226,260.41	2.425E+00	Pulse	0.30	3
Mn			2	50.241	ug/l	1.13	120,554.94	1.292E+00	Pulse	0.30	3
Fe			2	5242.507	ug/l	0.69	19,682,488.66	2.110E+02	Analog	0.30	3
Co			2	49.453	ug/l	0.49	368,908.31	3.954E+00	Pulse	0.30	3
Ni			2	49.480	ug/l	0.73	98,251.35	1.053E+00	Pulse	0.30	3
Cu			2	48.816	ug/l	0.37	264,139.32	2.831E+00	Pulse	0.30	3
Zn			2	47.839	ug/l	0.73	46,609.46	4.996E-01	Pulse	0.30	3
As			2	50.632	ug/l	0.92	23,553.26	2.525E-01	Pulse	1.00	3
Cd			2	49.304	ug/l	1.26	66,428.15	1.088E-01	Pulse	0.30	3
Sn			2	50.212	ug/l	0.43	142,364.01	2.331E-01	Pulse	0.30	3
Se			3	202.702	ug/l	0.49	14,643.67	1.753E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,605,937.50	0.60	87.4	Analog	0.10	3
1	Sc		2,309,349.19	2.33	86.7	Analog	0.10	3
1	Ge		463,892.27	1.85	86.2	Pulse	0.10	3

Quantitation Report

1	Ge		643,898.71	1.46	87.1	Pulse	0.10	3
1	Rh		2,920,803.60	0.97	83.5	Analog	0.10	3
1	In		3,021,229.05	0.66	85.3	Analog	0.10	3
1	Tb		4,237,685.56	1.19	88.9	Analog	0.10	3
1	Ho		4,203,476.92	1.10	90.0	Analog	0.10	3
1	Bi		2,568,397.46	1.09	86.7	Analog	0.10	3
2	Sc		93,294.59	0.32	86.7	Pulse	0.30	3
2	Ge		61,589.02	2.41	89.4	Pulse	0.30	3
2	Ge		91,639.67	0.92	88.1	Pulse	0.30	3
2	Rh		1,491,213.07	0.89	85.2	Analog	0.30	3
2	In		610,862.58	0.84	88.3	Pulse	0.30	3
2	Tb		2,136,126.09	0.89	90.9	Analog	0.30	3
2	Ho		2,172,395.40	0.96	91.4	Analog	0.30	3
2	Bi		1,462,740.81	1.27	89.7	Analog	0.30	3
3	Sc		80,670.50	0.96	84.8	Pulse	0.30	3
3	Ge		54,954.37	0.48	86.5	Pulse	0.30	3
3	Ge		83,514.60	0.24	86.7	Pulse	0.30	3
3	Rh		882,708.16	0.48	85.3	Pulse	0.30	3
3	Tb		1,601,267.71	0.08	91.2	Analog	0.30	3

Quantitation Report

File Name	112BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:22
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.001	ug/l	-1071.05	336.01	1.277E-04	Pulse	0.25	3
B			1	1.507	ug/l	8.48	12,128.97	4.608E-03	Pulse	0.15	3
Ca			1	-4.827	ug/l	-8.67	7,311.94	3.152E-03	Pulse	0.10	3
Sr			1	-0.002	ug/l	-97.53	450.03	1.501E-04	Pulse	0.10	3
Mo			1	0.016	ug/l	66.54	180.01	5.968E-05	Pulse	0.10	3
Ag			1	0.005	ug/l	16.54	116.67	3.793E-05	Pulse	0.10	3
Sn			1	0.188	ug/l	15.35	3,733.93	1.213E-03	Pulse	0.10	3
Sb			1	0.009	ug/l	26.40	440.02	1.047E-04	Pulse	0.10	3
Ba			1	-0.025	ug/l	-44.15	160.01	3.808E-05	Pulse	0.10	3
Tl			1	0.028	ug/l	10.79	1,103.41	4.284E-04	Pulse	0.10	3
Pb			1	0.039	ug/l	15.72	2,400.28	9.310E-04	Pulse	0.10	3
Pb			1	0.053	ug/l	50.02	2,026.90	7.854E-04	Pulse	0.10	3
Pb			1	0.042	ug/l	12.34	9,421.55	3.654E-03	Pulse	0.10	3
Na			2	-0.506	ug/l	-9.55	2,988.08	3.255E-02	Pulse	0.30	3
Mg			2	-0.457	ug/l	-38.47	476.68	5.188E-03	Pulse	0.30	3
Al			2	0.935	ug/l	64.81	410.01	4.467E-03	Pulse	0.30	3
K			2	5.685	ug/l	24.25	12,902.84	1.405E-01	Pulse	0.30	3
Ca			2	-1.746	ug/l	-99.49	46.67	5.099E-04	Pulse	0.30	3
Ti			2	0.039	ug/l	405.96	21.11	2.303E-04	Pulse	0.30	3
V			2	-0.002	ug/l	-432.67	328.90	3.584E-03	Pulse	0.30	3
Cr			2	-0.016	ug/l	-46.91	162.98	1.776E-03	Pulse	0.30	3
Mn			2	0.010	ug/l	199.73	174.45	1.901E-03	Pulse	0.30	3
Fe			2	13.842	ug/l	20.97	73,263.10	7.980E-01	Pulse	0.30	3
Co			2	-0.002	ug/l	-63.24	28.69	3.126E-04	Pulse	0.30	3
Ni			2	-0.025	ug/l	-15.99	788.92	8.593E-03	Pulse	0.30	3
Cu			2	-0.046	ug/l	-27.12	841.14	9.162E-03	Pulse	0.30	3
Zn			2	-0.615	ug/l	-29.50	5,668.82	6.174E-02	Pulse	0.30	3
As			2	0.019	ug/l	100.14	26.33	2.870E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.005	ug/l	73.82	12.21	1.986E-05	Pulse	0.30	3
Sn			2	0.528	ug/l	17.16	1,544.54	2.509E-03	Pulse	0.30	3
Se			3	0.167	ug/l	16.09	15.60	1.861E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,632,728.81	0.57	88.3	Analog	0.10	3
1	Sc		2,319,727.68	0.98	87.1	Analog	0.10	3
1	Ge		466,253.66	1.00	86.6	Pulse	0.10	3
1	Ge		645,065.60	1.96	87.3	Pulse	0.10	3
1	Rh		3,002,321.10	1.68	85.8	Analog	0.10	3
1	In		3,078,165.21	1.05	87.0	Analog	0.10	3
1	Tb		4,203,656.81	0.25	88.2	Analog	0.10	3
1	Ho		4,140,761.92	1.04	88.6	Analog	0.10	3
1	Bi		2,577,574.18	1.66	87.0	Analog	0.10	3
2	Sc		91,805.36	0.95	85.3	Pulse	0.30	3
2	Ge		60,315.27	0.08	87.6	Pulse	0.30	3
2	Ge		90,380.84	0.26	86.9	Pulse	0.30	3
2	Rh		1,540,089.84	1.48	87.9	Analog	0.30	3
2	In		615,364.73	0.74	89.0	Pulse	0.30	3
2	Tb		2,125,211.30	0.56	90.4	Analog	0.30	3
2	Ho		2,170,820.05	0.75	91.4	Analog	0.30	3
2	Bi		1,479,504.00	0.90	90.7	Analog	0.30	3
3	Sc		81,154.86	0.20	85.4	Pulse	0.30	3
3	Ge		55,147.24	1.53	86.8	Pulse	0.30	3
3	Ge		83,835.03	0.90	87.0	Pulse	0.30	3
3	Rh		910,819.69	0.39	88.0	Pulse	0.30	3
3	Tb		1,621,714.07	1.37	92.3	Analog	0.30	3

Quantitation Report

File Name	113SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:26
Sample Name	JD48158-1R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	5.872	ug/l	1.27	9,913.69	3.656E-03	Pulse	0.25	3
B			1	9.558	ug/l	5.72	14,613.27	5.391E-03	Pulse	0.15	3
Ca			1	4505.555	ug/l	1.27	904,529.57	3.165E-01	Pulse	0.10	3
Sr			1	33.622	ug/l	1.73	259,131.77	8.632E-02	Pulse	0.10	3
Mo			1	3.176	ug/l	3.91	4,864.28	1.620E-03	Pulse	0.10	3
Ag			1	0.136	ug/l	17.78	516.69	1.679E-04	Pulse	0.10	3
Sn			1	22.434	ug/l	1.05	55,880.43	1.815E-02	Pulse	0.10	3
Sb			1	0.215	ug/l	4.91	956.74	2.223E-04	Pulse	0.10	3
Ba			1	385.253	ug/l	1.44	452,106.86	1.051E-01	Pulse	0.10	3
Tl			1	2.224	ug/l	3.07	15,341.91	5.932E-03	Pulse	0.10	3
Pb			1	83.624	ug/l	1.45	202,064.08	7.813E-02	Pulse	0.10	3
Pb			1	76.575	ug/l	1.62	161,951.59	6.262E-02	Pulse	0.10	3
Pb			1	80.310	ug/l	0.89	771,033.71	2.981E-01	Pulse	0.10	3
Na			2	349.335	ug/l	0.79	72,781.01	6.508E-01	Pulse	0.30	3
Mg			2	16349.838	ug/l	0.69	1,550,123.34	1.386E+01	Analog	0.30	3
Al			2	168391.023	ug/l	0.84	5,554,411.03	4.967E+01	Analog	0.30	3
K			2	16261.864	ug/l	1.14	1,110,971.31	9.936E+00	Pulse	0.30	3
Ca			2	4762.696	ug/l	1.44	17,091.16	1.529E-01	Pulse	0.30	3
Ti			2	6820.260	ug/l	0.80	172,605.97	1.544E+00	Pulse	0.30	3
V			2	396.671	ug/l	1.63	337,707.92	3.020E+00	Pulse	0.30	3
Cr			2	92.948	ug/l	0.71	100,549.77	8.992E-01	Pulse	0.30	3
Mn			2	1347.623	ug/l	1.17	774,334.22	6.925E+00	Pulse	0.30	3
Fe			2	160288.020	ug/l	1.91	144,108,927.61	1.289E+03	Analog	0.30	3
Co			2	35.180	ug/l	0.27	62,955.27	5.630E-01	Pulse	0.30	3
Ni			2	49.657	ug/l	1.58	24,450.47	2.187E-01	Pulse	0.30	3
Cu			2	83.923	ug/l	1.04	109,721.56	9.813E-01	Pulse	0.30	3
Zn			2	215.556	ug/l	0.20	51,089.26	4.569E-01	Pulse	0.30	3
As			2	7.566	ug/l	2.29	864.69	7.732E-03	Pulse	1.00	3
Cd			2	0.121	ug/l	47.90	37.51	6.187E-05	Pulse	0.30	3
Sn			2	24.890	ug/l	2.15	14,049.75	2.316E-02	Pulse	0.30	3
Se			3	4.009	ug/l	1.46	60.47	7.347E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,711,331.10	1.16	91.0	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,857,597.04	0.51	107.3	Analog	0.10	3
1	Ge		493,610.51	1.02	91.7	Pulse	0.10	3
1	Ge		660,741.23	0.75	89.4	Pulse	0.10	3
1	Rh		3,002,135.16	0.43	85.8	Analog	0.10	3
1	In		3,078,551.34	1.02	87.0	Analog	0.10	3
1	Tb		4,302,954.41	1.03	90.3	Analog	0.10	3
1	Ho		4,272,326.60	1.09	91.5	Analog	0.10	3
1	Bi		2,586,418.82	1.03	87.3	Analog	0.10	3
2	Sc		111,825.91	1.11	103.9	Pulse	0.30	3
2	Ge		62,004.90	0.86	90.0	Pulse	0.30	3
2	Ge		91,755.87	1.01	88.2	Pulse	0.30	3
2	Rh		1,471,606.09	1.36	84.0	Analog	0.30	3
2	In		606,709.34	0.70	87.7	Pulse	0.30	3
2	Tb		2,108,673.94	1.48	89.7	Analog	0.30	3
2	Ho		2,151,658.66	0.21	90.6	Analog	0.30	3
2	Bi		1,439,710.95	0.48	88.3	Analog	0.30	3
3	Sc		97,447.19	0.22	102.5	Pulse	0.30	3
3	Ge		55,224.16	0.87	86.9	Pulse	0.30	3
3	Ge		82,308.47	0.64	85.4	Pulse	0.30	3
3	Rh		869,128.04	1.10	84.0	Pulse	0.30	3
3	Tb		1,567,224.45	0.61	89.2	Analog	0.30	3

Quantitation Report

File Name	114SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:29
Sample Name	JD48158-2R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.603	ug/l	1.58	6,034.50	2.294E-03	Pulse	0.25	3
B			1	7.928	ug/l	4.00	12,524.88	4.760E-03	Pulse	0.15	3
Ca			1	24775.343	ug/l	1.74	4,316,493.69	1.719E+00	Analog	0.10	3
Sr			1	122.923	ug/l	0.97	931,366.70	3.151E-01	Pulse	0.10	3
Mo			1	3.388	ug/l	2.41	5,104.35	1.727E-03	Pulse	0.10	3
Ag			1	0.403	ug/l	3.53	1,463.47	4.854E-04	Pulse	0.10	3
Sn			1	20.870	ug/l	1.95	51,013.54	1.692E-02	Pulse	0.10	3
Sb			1	0.295	ug/l	6.04	1,176.76	2.789E-04	Pulse	0.10	3
Ba			1	359.835	ug/l	0.67	414,155.31	9.815E-02	Pulse	0.10	3
Tl			1	0.837	ug/l	2.71	5,801.41	2.268E-03	Pulse	0.10	3
Pb			1	57.596	ug/l	0.37	138,254.55	5.404E-02	Pulse	0.10	3
Pb			1	53.447	ug/l	1.08	112,254.81	4.388E-02	Pulse	0.10	3
Pb			1	55.393	ug/l	0.33	528,324.19	2.065E-01	Pulse	0.10	3
Na			2	3144.425	ug/l	1.38	561,190.72	5.562E+00	Pulse	0.30	3
Mg			2	22300.013	ug/l	1.26	1,907,449.30	1.890E+01	Analog	0.30	3
Al			2	93792.311	ug/l	1.28	2,791,675.72	2.767E+01	Analog	0.30	3
K			2	7801.391	ug/l	1.60	487,393.05	4.831E+00	Pulse	0.30	3
Ca			2	25711.334	ug/l	1.87	82,902.22	8.217E-01	Pulse	0.30	3
Ti			2	2239.400	ug/l	1.25	51,148.37	5.069E-01	Pulse	0.30	3
V			2	210.729	ug/l	1.36	162,060.29	1.606E+00	Pulse	0.30	3
Cr			2	105.160	ug/l	1.58	102,610.66	1.017E+00	Pulse	0.30	3
Mn			2	1455.896	ug/l	0.74	754,854.50	7.481E+00	Pulse	0.30	3
Fe			2	101042.857	ug/l	1.37	81,983,810.07	8.126E+02	Analog	0.30	3
Co			2	48.093	ug/l	0.65	77,636.78	7.694E-01	Pulse	0.30	3
Ni			2	113.640	ug/l	1.43	49,305.82	4.887E-01	Pulse	0.30	3
Cu			2	96.121	ug/l	1.19	113,222.33	1.122E+00	Pulse	0.30	3
Zn			2	181.025	ug/l	4.32	39,792.75	3.945E-01	Pulse	0.30	3
As			2	9.879	ug/l	2.80	1,013.03	1.004E-02	Pulse	1.00	3
Cd			2	0.197	ug/l	36.55	58.57	9.556E-05	Pulse	0.30	3
Sn			2	22.230	ug/l	3.54	12,678.56	2.069E-02	Pulse	0.30	3
Se			3	2.368	ug/l	1.96	37.93	4.510E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,631,267.65	1.73	88.3	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,511,452.83	1.19	94.3	Analog	0.10	3
1	Ge		482,716.67	0.58	89.7	Pulse	0.10	3
1	Ge		651,998.30	0.86	88.2	Pulse	0.10	3
1	Rh		2,955,395.17	0.62	84.5	Analog	0.10	3
1	In		3,015,075.66	0.78	85.2	Analog	0.10	3
1	Tb		4,219,655.98	0.44	88.6	Analog	0.10	3
1	Ho		4,183,179.84	0.37	89.5	Analog	0.10	3
1	Bi		2,558,164.23	0.32	86.3	Analog	0.10	3
2	Sc		100,906.04	1.20	93.8	Pulse	0.30	3
2	Ge		62,835.84	0.86	91.2	Pulse	0.30	3
2	Ge		92,798.38	1.06	89.2	Pulse	0.30	3
2	Rh		1,487,408.72	0.81	84.9	Analog	0.30	3
2	In		612,861.79	0.75	88.6	Pulse	0.30	3
2	Tb		2,123,641.51	1.24	90.3	Analog	0.30	3
2	Ho		2,168,577.00	0.55	91.3	Analog	0.30	3
2	Bi		1,446,683.45	0.99	88.7	Analog	0.30	3
3	Sc		88,363.50	1.72	92.9	Pulse	0.30	3
3	Ge		55,342.35	0.48	87.1	Pulse	0.30	3
3	Ge		84,118.80	0.56	87.3	Pulse	0.30	3
3	Rh		892,511.18	0.81	86.3	Pulse	0.30	3
3	Tb		1,595,021.36	0.07	90.8	Analog	0.30	3

Quantitation Report

File Name	115SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:33
Sample Name	JD48158-3R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	3.693	ug/l	4.81	6,269.24	2.348E-03	Pulse	0.25	3
B			1	7.848	ug/l	2.51	12,629.43	4.729E-03	Pulse	0.15	3
Ca			1	21894.283	ug/l	0.26	3,900,950.57	1.520E+00	Analog	0.10	3
Sr			1	85.764	ug/l	0.88	661,459.62	2.199E-01	Pulse	0.10	3
Mo			1	3.998	ug/l	2.47	6,118.06	2.034E-03	Pulse	0.10	3
Ag			1	0.552	ug/l	12.16	2,033.54	6.632E-04	Pulse	0.10	3
Sn			1	21.298	ug/l	3.58	52,930.08	1.726E-02	Pulse	0.10	3
Sb			1	0.223	ug/l	6.38	973.40	2.282E-04	Pulse	0.10	3
Ba			1	354.616	ug/l	1.75	412,441.58	9.673E-02	Pulse	0.10	3
Tl			1	1.417	ug/l	2.68	9,723.49	3.799E-03	Pulse	0.10	3
Pb			1	73.747	ug/l	0.76	176,548.80	6.899E-02	Pulse	0.10	3
Pb			1	68.675	ug/l	0.43	143,877.85	5.622E-02	Pulse	0.10	3
Pb			1	71.178	ug/l	0.82	677,021.12	2.646E-01	Pulse	0.10	3
Na			2	2422.261	ug/l	0.52	439,907.33	4.293E+00	Pulse	0.30	3
Mg			2	19619.244	ug/l	0.86	1,704,316.91	1.663E+01	Analog	0.30	3
Al			2	122553.628	ug/l	1.21	3,704,416.94	3.615E+01	Analog	0.30	3
K			2	11381.899	ug/l	1.62	716,325.25	6.991E+00	Pulse	0.30	3
Ca			2	22770.912	ug/l	0.32	74,577.89	7.278E-01	Pulse	0.30	3
Ti			2	3872.723	ug/l	0.57	89,816.11	8.765E-01	Pulse	0.30	3
V			2	232.443	ug/l	0.71	181,503.62	1.771E+00	Pulse	0.30	3
Cr			2	86.548	ug/l	1.05	85,815.17	8.375E-01	Pulse	0.30	3
Mn			2	1604.185	ug/l	0.55	844,639.18	8.243E+00	Pulse	0.30	3
Fe			2	98310.310	ug/l	1.43	81,006,181.23	7.906E+02	Analog	0.30	3
Co			2	44.180	ug/l	2.07	72,425.74	7.069E-01	Pulse	0.30	3
Ni			2	83.523	ug/l	0.97	37,049.36	3.616E-01	Pulse	0.30	3
Cu			2	102.518	ug/l	0.21	122,556.29	1.196E+00	Pulse	0.30	3
Zn			2	226.694	ug/l	0.98	48,878.19	4.770E-01	Pulse	0.30	3
As			2	7.552	ug/l	4.62	791.02	7.718E-03	Pulse	1.00	3
Cd			2	0.285	ug/l	22.20	82.96	1.341E-04	Pulse	0.30	3
Sn			2	23.458	ug/l	3.01	13,494.77	2.183E-02	Pulse	0.30	3
Se			3	3.236	ug/l	4.79	50.93	6.011E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,670,760.22	1.56	89.6	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,567,072.67	0.55	96.4	Analog	0.10	3
1	Ge		490,613.47	0.96	91.1	Pulse	0.10	3
1	Ge		661,020.09	0.32	89.4	Pulse	0.10	3
1	Rh		3,007,730.79	0.27	86.0	Analog	0.10	3
1	In		3,066,901.68	0.27	86.6	Analog	0.10	3
1	Tb		4,264,530.14	1.38	89.5	Analog	0.10	3
1	Ho		4,231,932.02	0.65	90.6	Analog	0.10	3
1	Bi		2,559,236.94	1.19	86.3	Analog	0.10	3
2	Sc		102,468.02	0.54	95.2	Pulse	0.30	3
2	Ge		62,767.81	1.08	91.1	Pulse	0.30	3
2	Ge		93,373.98	0.83	89.8	Pulse	0.30	3
2	Rh		1,511,473.55	1.91	86.3	Analog	0.30	3
2	In		618,232.06	0.61	89.4	Pulse	0.30	3
2	Tb		2,146,706.51	0.93	91.3	Analog	0.30	3
2	Ho		2,181,086.65	1.06	91.8	Analog	0.30	3
2	Bi		1,445,747.13	0.30	88.6	Analog	0.30	3
3	Sc		89,880.75	0.27	94.5	Pulse	0.30	3
3	Ge		56,311.12	0.33	88.6	Pulse	0.30	3
3	Ge		84,737.30	0.17	87.9	Pulse	0.30	3
3	Rh		894,317.26	0.31	86.4	Pulse	0.30	3
3	Tb		1,592,893.72	1.19	90.7	Analog	0.30	3

Quantitation Report

File Name	116SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:36
Sample Name	JD48158-4R
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.004	ug/l	3.57	6,786.76	2.534E-03	Pulse	0.25	3
B			1	8.263	ug/l	4.15	13,092.03	4.890E-03	Pulse	0.15	3
Ca			1	24509.499	ug/l	0.75	4,426,251.29	1.701E+00	Analog	0.10	3
Sr			1	109.948	ug/l	0.39	849,043.68	2.819E-01	Pulse	0.10	3
Mo			1	5.539	ug/l	3.92	8,465.91	2.811E-03	Pulse	0.10	3
Ag			1	2.692	ug/l	1.77	9,913.46	3.212E-03	Pulse	0.10	3
Sn			1	24.786	ug/l	0.74	61,738.44	2.001E-02	Pulse	0.10	3
Sb			1	0.305	ug/l	14.53	1,230.10	2.860E-04	Pulse	0.10	3
Ba			1	440.237	ug/l	0.77	516,232.69	1.201E-01	Pulse	0.10	3
Tl			1	1.417	ug/l	3.27	9,753.63	3.802E-03	Pulse	0.10	3
Pb			1	102.012	ug/l	0.65	244,085.66	9.514E-02	Pulse	0.10	3
Pb			1	93.960	ug/l	0.89	196,794.83	7.671E-02	Pulse	0.10	3
Pb			1	97.919	ug/l	0.79	930,909.52	3.629E-01	Pulse	0.10	3
Na			2	3613.994	ug/l	0.99	667,863.79	6.387E+00	Pulse	0.30	3
Mg			2	25992.817	ug/l	1.64	2,303,850.12	2.203E+01	Analog	0.30	3
Al			2	139814.261	ug/l	1.47	4,312,451.91	4.124E+01	Analog	0.30	3
K			2	11290.670	ug/l	1.26	725,247.02	6.936E+00	Pulse	0.30	3
Ca			2	25396.743	ug/l	1.22	84,867.47	8.117E-01	Pulse	0.30	3
Ti			2	3725.671	ug/l	0.89	88,178.50	8.433E-01	Pulse	0.30	3
V			2	250.340	ug/l	1.05	199,448.20	1.907E+00	Pulse	0.30	3
Cr			2	102.631	ug/l	1.40	103,788.28	9.926E-01	Pulse	0.30	3
Mn			2	1996.640	ug/l	0.74	1,072,740.93	1.026E+01	Pulse	0.30	3
Fe			2	110511.268	ug/l	1.26	92,920,547.42	8.887E+02	Analog	0.30	3
Co			2	54.572	ug/l	1.54	91,283.34	8.730E-01	Pulse	0.30	3
Ni			2	128.631	ug/l	2.13	57,707.26	5.519E-01	Pulse	0.30	3
Cu			2	128.757	ug/l	1.17	156,753.51	1.499E+00	Pulse	0.30	3
Zn			2	286.143	ug/l	0.21	61,113.48	5.844E-01	Pulse	0.30	3
As			2	8.577	ug/l	3.08	914.03	8.740E-03	Pulse	1.00	3
Cd			2	0.642	ug/l	16.24	182.82	2.919E-04	Pulse	0.30	3
Sn			2	26.745	ug/l	0.42	15,584.49	2.488E-02	Pulse	0.30	3
Se			3	3.117	ug/l	5.57	49.47	5.805E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,677,802.47	0.70	89.9	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,602,937.41	0.97	97.8	Analog	0.10	3
1	Ge		497,401.95	0.62	92.4	Pulse	0.10	3
1	Ge		665,992.96	0.33	90.1	Pulse	0.10	3
1	Rh		3,011,989.12	0.23	86.1	Analog	0.10	3
1	In		3,085,806.21	0.45	87.2	Analog	0.10	3
1	Tb		4,299,598.90	0.52	90.2	Analog	0.10	3
1	Ho		4,249,676.60	0.59	91.0	Analog	0.10	3
1	Bi		2,565,491.94	0.86	86.6	Analog	0.10	3
2	Sc		104,568.41	0.95	97.2	Pulse	0.30	3
2	Ge		63,983.79	0.74	92.9	Pulse	0.30	3
2	Ge		94,974.14	1.08	91.3	Pulse	0.30	3
2	Rh		1,512,625.39	2.66	86.4	Analog	0.30	3
2	In		626,359.04	0.34	90.6	Pulse	0.30	3
2	Tb		2,137,532.76	0.39	90.9	Analog	0.30	3
2	Ho		2,173,966.79	0.82	91.5	Analog	0.30	3
2	Bi		1,448,275.32	0.81	88.8	Analog	0.30	3
3	Sc		91,236.60	0.67	96.0	Pulse	0.30	3
3	Ge		57,053.76	0.90	89.8	Pulse	0.30	3
3	Ge		85,199.58	0.40	88.4	Pulse	0.30	3
3	Rh		902,602.78	0.32	87.2	Pulse	0.30	3
3	Tb		1,599,269.45	0.61	91.0	Analog	0.30	3

Quantitation Report

File Name	117SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:40
Sample Name	mp34484-s1
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	178.953	ug/l	1.98	29,760.75	1.088E-02	Pulse	0.25	3
B			1	168.662	ug/l	6.38	22,490.88	8.221E-03	Pulse	0.15	3
Ca			1	54051.932	ug/l	0.96	902,594.86	3.788E-01	Pulse	0.10	3
Sr			1	342.838	ug/l	1.40	271,800.83	8.801E-02	Pulse	0.10	3
Mo			1	144.072	ug/l	2.45	22,476.57	7.279E-03	Pulse	0.10	3
Ag			1	18.481	ug/l	2.60	6,931.74	2.207E-03	Pulse	0.10	3
Sn			1	101.147	ug/l	3.35	26,513.17	8.442E-03	Pulse	0.10	3
Sb			1	11.035	ug/l	5.50	3,573.89	8.471E-04	Pulse	0.10	3
Ba			1	2315.233	ug/l	1.40	266,529.88	6.318E-02	Pulse	0.10	3
Tl			1	168.962	ug/l	0.57	118,293.80	4.469E-02	Pulse	0.10	3
Pb			1	1237.449	ug/l	0.52	305,078.41	1.153E-01	Pulse	0.10	3
Pb			1	1175.711	ug/l	0.65	253,696.81	9.584E-02	Pulse	0.10	3
Pb			1	1205.148	ug/l	0.46	1,180,396.12	4.459E-01	Pulse	0.10	3
Na			2	9599.625	ug/l	1.52	165,778.38	1.724E+00	Pulse	0.30	3
Mg			2	51501.279	ug/l	1.19	420,428.84	4.372E+00	Pulse	0.30	3
Al			2	104216.229	ug/l	1.02	295,948.27	3.077E+00	Pulse	0.30	3
K			2	28800.365	ug/l	0.91	179,004.11	1.861E+00	Pulse	0.30	3
Ca			2	56417.249	ug/l	2.27	17,401.43	1.809E-01	Pulse	0.30	3
Ti			2	1870.369	ug/l	2.42	4,088.35	4.251E-02	Pulse	0.30	3
V			2	357.338	ug/l	0.96	26,490.18	2.754E-01	Pulse	0.30	3
Cr			2	315.236	ug/l	2.49	29,488.99	3.067E-01	Pulse	0.30	3
Mn			2	2983.583	ug/l	1.78	147,577.61	1.534E+00	Pulse	0.30	3
Fe			2	113145.905	ug/l	1.83	8,771,177.15	9.120E+01	Analog	0.30	3
Co			2	220.206	ug/l	1.19	33,905.72	3.525E-01	Pulse	0.30	3
Ni			2	275.328	ug/l	0.66	12,051.19	1.253E-01	Pulse	0.30	3
Cu			2	638.806	ug/l	1.08	72,107.23	7.497E-01	Pulse	0.30	3
Zn			2	2547.095	ug/l	1.96	50,748.19	5.276E-01	Pulse	0.30	3
As			2	230.998	ug/l	4.40	2,231.83	2.321E-02	Pulse	1.00	3
Cd			2	173.736	ug/l	1.57	4,945.00	7.672E-03	Pulse	0.30	3
Sn			2	113.825	ug/l	2.29	6,847.11	1.062E-02	Pulse	0.30	3
Se			3	466.737	ug/l	1.23	697.95	8.114E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,736,358.82	0.76	91.8	Analog	0.10	3
1	Sc		2,382,858.19	0.51	89.5	Analog	0.10	3
1	Ge		493,616.91	0.79	91.7	Pulse	0.10	3

Quantitation Report

1	Ge		679,369.47	0.91	91.9	Pulse	0.10	3
1	Rh		3,088,492.66	1.28	88.3	Analog	0.10	3
1	In		3,141,417.28	1.42	88.7	Analog	0.10	3
1	Tb		4,218,983.27	0.88	88.6	Analog	0.10	3
1	Ho		4,190,425.88	0.31	89.7	Analog	0.10	3
1	Bi		2,647,086.00	1.12	89.3	Analog	0.10	3
2	Sc		96,185.11	1.36	89.4	Pulse	0.30	3
2	Ge		64,186.71	1.24	93.2	Pulse	0.30	3
2	Ge		96,111.94	1.13	92.4	Pulse	0.30	3
2	Rh		1,564,411.22	0.54	89.3	Analog	0.30	3
2	In		644,553.54	0.56	93.2	Pulse	0.30	3
2	Tb		2,163,272.55	0.36	92.0	Analog	0.30	3
2	Ho		2,191,784.78	0.61	92.3	Analog	0.30	3
2	Bi		1,527,928.21	0.47	93.7	Analog	0.30	3
3	Sc		82,227.18	0.82	86.5	Pulse	0.30	3
3	Ge		56,569.81	0.25	89.0	Pulse	0.30	3
3	Ge		86,010.47	1.50	89.3	Pulse	0.30	3
3	Rh		918,210.35	0.70	88.8	Pulse	0.30	3
3	Tb		1,603,728.20	1.62	91.3	Analog	0.30	3

Quantitation Report

File Name	118SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:43
Sample Name	mp34484-s2
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	175.148	ug/l	0.68	29,223.77	1.065E-02	Pulse	0.25	3
B			1	173.653	ug/l	2.18	23,093.81	8.414E-03	Pulse	0.15	3
Ca			1	53382.113	ug/l	0.86	903,373.55	3.742E-01	Pulse	0.10	3
Sr			1	340.559	ug/l	2.31	269,448.53	8.743E-02	Pulse	0.10	3
Mo			1	150.956	ug/l	1.71	23,504.68	7.626E-03	Pulse	0.10	3
Ag			1	9.976	ug/l	4.72	3,740.59	1.194E-03	Pulse	0.10	3
Sn			1	100.924	ug/l	0.46	26,393.05	8.425E-03	Pulse	0.10	3
Sb			1	10.149	ug/l	6.08	3,350.50	7.848E-04	Pulse	0.10	3
Ba			1	2286.276	ug/l	0.52	266,318.12	6.239E-02	Pulse	0.10	3
Tl			1	172.690	ug/l	0.63	121,092.65	4.567E-02	Pulse	0.10	3
Pb			1	1220.676	ug/l	1.88	301,439.35	1.137E-01	Pulse	0.10	3
Pb			1	1153.109	ug/l	0.90	249,246.89	9.401E-02	Pulse	0.10	3
Pb			1	1197.723	ug/l	0.77	1,175,033.34	4.432E-01	Pulse	0.10	3
Na			2	9754.533	ug/l	0.57	169,324.66	1.751E+00	Pulse	0.30	3
Mg			2	51593.152	ug/l	0.86	423,492.44	4.379E+00	Pulse	0.30	3
Al			2	102689.464	ug/l	0.89	293,214.03	3.032E+00	Pulse	0.30	3
K			2	29169.188	ug/l	0.30	182,133.59	1.883E+00	Pulse	0.30	3
Ca			2	55849.268	ug/l	2.12	17,320.23	1.791E-01	Pulse	0.30	3
Ti			2	1824.955	ug/l	4.03	4,011.64	4.148E-02	Pulse	0.30	3
V			2	361.894	ug/l	1.82	26,967.59	2.789E-01	Pulse	0.30	3
Cr			2	312.870	ug/l	1.88	29,433.19	3.044E-01	Pulse	0.30	3
Mn			2	2953.210	ug/l	1.37	146,873.88	1.519E+00	Pulse	0.30	3
Fe			2	111201.700	ug/l	0.89	8,668,466.60	8.964E+01	Analog	0.30	3
Co			2	220.632	ug/l	0.57	34,157.70	3.532E-01	Pulse	0.30	3
Ni			2	270.868	ug/l	2.08	11,934.45	1.234E-01	Pulse	0.30	3
Cu			2	630.375	ug/l	0.32	71,560.21	7.400E-01	Pulse	0.30	3
Zn			2	2527.632	ug/l	1.49	50,683.68	5.241E-01	Pulse	0.30	3
As			2	239.877	ug/l	1.54	2,330.18	2.410E-02	Pulse	1.00	3
Cd			2	184.691	ug/l	1.65	5,302.88	8.155E-03	Pulse	0.30	3
Sn			2	107.915	ug/l	2.17	6,551.43	1.008E-02	Pulse	0.30	3
Se			3	478.255	ug/l	2.00	716.42	8.314E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,744,464.92	0.70	92.1	Analog	0.10	3
1	Sc		2,414,559.08	1.01	90.7	Analog	0.10	3
1	Ge		494,655.42	0.62	91.9	Pulse	0.10	3

Quantitation Report

1	Ge		680,827.72	0.36	92.1	Pulse	0.10	3
1	Rh		3,082,263.08	0.87	88.1	Analog	0.10	3
1	In		3,132,787.35	0.27	88.5	Analog	0.10	3
1	Tb		4,268,705.36	0.94	89.6	Analog	0.10	3
1	Ho		4,245,178.37	0.77	90.9	Analog	0.10	3
1	Bi		2,651,240.27	0.30	89.5	Analog	0.10	3
2	Sc		96,702.57	0.20	89.9	Pulse	0.30	3
2	Ge		64,853.81	0.88	94.2	Pulse	0.30	3
2	Ge		97,370.51	0.79	93.6	Pulse	0.30	3
2	Rh		1,580,087.96	0.65	90.2	Analog	0.30	3
2	In		650,240.99	0.24	94.0	Pulse	0.30	3
2	Tb		2,190,308.80	0.21	93.2	Analog	0.30	3
2	Ho		2,219,958.87	0.43	93.4	Analog	0.30	3
2	Bi		1,517,984.00	0.74	93.1	Analog	0.30	3
3	Sc		82,364.27	0.25	86.6	Pulse	0.30	3
3	Ge		56,615.49	0.22	89.1	Pulse	0.30	3
3	Ge		86,190.40	1.82	89.4	Pulse	0.30	3
3	Rh		926,886.18	0.42	89.6	Pulse	0.30	3
3	Tb		1,615,604.48	1.10	92.0	Analog	0.30	3

Quantitation Report

File Name	119SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:46
Sample Name	JD49193-5
Sample Type	Sample
Comment	50X
Prep Dilution	50.000
Auto Dilution	N/A
Total Dilution	50.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	2.855	ug/l	12.14	832.04	3.012E-04	Pulse	0.25	3
B			1	35.561	ug/l	14.09	8,469.02	3.067E-03	Pulse	0.15	3
Ca			1	44014.696	ug/l	0.81	750,489.39	3.093E-01	Pulse	0.10	3
Sr			1	160.552	ug/l	0.51	128,970.53	4.131E-02	Pulse	0.10	3
Mo			1	5.405	ug/l	11.80	913.40	2.923E-04	Pulse	0.10	3
Ag			1	3.231	ug/l	7.64	1,236.76	3.909E-04	Pulse	0.10	3
Sn			1	29.659	ug/l	4.84	8,886.14	2.808E-03	Pulse	0.10	3
Sb			1	4.381	ug/l	19.70	1,643.48	3.795E-04	Pulse	0.10	3
Ba			1	2116.118	ug/l	0.38	250,052.51	5.775E-02	Pulse	0.10	3
Tl			1	1.171	ug/l	21.47	990.07	3.670E-04	Pulse	0.10	3
Pb			1	1042.565	ug/l	0.29	262,224.25	9.722E-02	Pulse	0.10	3
Pb			1	989.865	ug/l	0.49	217,886.79	8.078E-02	Pulse	0.10	3
Pb			1	1020.716	ug/l	0.41	1,019,881.04	3.781E-01	Pulse	0.10	3
Na			2	1040.948	ug/l	0.71	21,421.41	2.199E-01	Pulse	0.30	3
Mg			2	42057.495	ug/l	1.89	347,851.69	3.571E+00	Pulse	0.30	3
Al			2	85163.177	ug/l	1.86	244,979.44	2.515E+00	Pulse	0.30	3
K			2	17848.874	ug/l	1.63	116,925.31	1.200E+00	Pulse	0.30	3
Ca			2	45942.257	ug/l	2.21	14,364.13	1.475E-01	Pulse	0.30	3
Ti			2	2492.093	ug/l	4.26	5,512.09	5.658E-02	Pulse	0.30	3
V			2	206.512	ug/l	2.24	15,653.04	1.607E-01	Pulse	0.30	3
Cr			2	144.813	ug/l	2.82	13,853.58	1.422E-01	Pulse	0.30	3
Mn			2	2826.913	ug/l	1.36	141,622.70	1.454E+00	Pulse	0.30	3
Fe			2	123324.466	ug/l	1.34	9,680,774.89	9.939E+01	Analog	0.30	3
Co			2	46.102	ug/l	2.18	7,222.20	7.415E-02	Pulse	0.30	3
Ni			2	99.306	ug/l	3.99	4,968.59	5.102E-02	Pulse	0.30	3
Cu			2	479.744	ug/l	0.48	55,136.43	5.660E-01	Pulse	0.30	3
Zn			2	2334.565	ug/l	1.29	47,653.53	4.892E-01	Pulse	0.30	3
As			2	58.313	ug/l	4.13	585.01	6.004E-03	Pulse	1.00	3
Cd			2	4.021	ug/l	20.83	121.05	1.860E-04	Pulse	0.30	3
Sn			2	38.329	ug/l	4.96	2,354.65	3.618E-03	Pulse	0.30	3
Se			3	4.188	ug/l	19.46	9.80	1.138E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,761,177.49	0.76	92.7	Analog	0.10	3
1	Sc		2,426,167.10	0.95	91.1	Analog	0.10	3
1	Ge		494,902.44	0.39	91.9	Pulse	0.10	3

Quantitation Report

1	Ge		685,661.79	0.27	92.7	Pulse	0.10	3
1	Rh		3,122,215.58	1.20	89.2	Analog	0.10	3
1	In		3,166,498.16	1.72	89.5	Analog	0.10	3
1	Tb		4,329,913.27	0.20	90.9	Analog	0.10	3
1	Ho		4,255,054.10	1.24	91.1	Analog	0.10	3
1	Bi		2,697,187.98	0.56	91.0	Analog	0.10	3
2	Sc		97,417.84	1.50	90.5	Pulse	0.30	3
2	Ge		64,582.48	0.86	93.8	Pulse	0.30	3
2	Ge		97,936.25	0.92	94.2	Pulse	0.30	3
2	Rh		1,576,291.46	0.59	90.0	Analog	0.30	3
2	In		650,895.60	0.21	94.1	Pulse	0.30	3
2	Tb		2,200,237.00	1.19	93.6	Analog	0.30	3
2	Ho		2,220,146.09	0.65	93.4	Analog	0.30	3
2	Bi		1,552,826.92	0.69	95.2	Analog	0.30	3
3	Sc		84,174.13	0.88	88.5	Pulse	0.30	3
3	Ge		57,165.19	0.71	90.0	Pulse	0.30	3
3	Ge		86,138.13	0.72	89.4	Pulse	0.30	3
3	Rh		933,265.80	0.45	90.2	Pulse	0.30	3
3	Tb		1,623,549.66	1.08	92.4	Analog	0.30	3

Quantitation Report

File Name	120SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:50
Sample Name	mp34484-sd1
Sample Type	Sample
Comment	250X
Prep Dilution	250.000
Auto Dilution	N/A
Total Dilution	250.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-3.018	ug/l	-16.42	258.68	9.353E-05	Pulse	0.25	3
B			1	-63.287	ug/l	-8.04	3,320.43	1.201E-03	Pulse	0.15	3
Ca			1	39034.754	ug/l	2.16	139,517.60	5.884E-02	Pulse	0.10	3
Sr			1	142.090	ug/l	1.62	23,564.63	7.452E-03	Pulse	0.10	3
Mo			1	4.082	ug/l	8.35	193.34	6.113E-05	Pulse	0.10	3
Ag			1	3.002	ug/l	21.18	250.01	7.753E-05	Pulse	0.10	3
Sn			1	8.470	ug/l	64.58	1,943.55	6.033E-04	Pulse	0.10	3
Sb			1	1.099	ug/l	174.47	373.35	8.701E-05	Pulse	0.10	3
Ba			1	1909.958	ug/l	1.10	45,026.06	1.048E-02	Pulse	0.10	3
Tl			1	0.823	ug/l	34.32	270.01	1.010E-04	Pulse	0.10	3
Pb			1	926.640	ug/l	1.84	47,905.29	1.790E-02	Pulse	0.10	3
Pb			1	890.340	ug/l	2.28	40,142.38	1.500E-02	Pulse	0.10	3
Pb			1	919.147	ug/l	0.62	188,599.32	7.046E-02	Pulse	0.10	3
Na			2	763.585	ug/l	8.03	6,117.85	6.383E-02	Pulse	0.30	3
Mg			2	38084.599	ug/l	0.53	62,561.52	6.526E-01	Pulse	0.30	3
Al			2	79209.709	ug/l	2.62	45,083.46	4.704E-01	Pulse	0.30	3
K			2	16114.540	ug/l	3.50	30,466.66	3.179E-01	Pulse	0.30	3
Ca			2	39755.773	ug/l	1.14	2,509.11	2.617E-02	Pulse	0.30	3
Ti			2	2215.133	ug/l	3.81	978.93	1.021E-02	Pulse	0.30	3
V			2	178.355	ug/l	4.90	2,950.30	3.078E-02	Pulse	0.30	3
Cr			2	124.193	ug/l	10.46	2,540.00	2.651E-02	Pulse	0.30	3
Mn			2	2563.593	ug/l	1.70	25,406.31	2.651E-01	Pulse	0.30	3
Fe			2	118236.026	ug/l	3.02	1,845,163.82	1.925E+01	Analog	0.30	3
Co			2	40.760	ug/l	14.19	1,289.52	1.347E-02	Pulse	0.30	3
Ni			2	87.714	ug/l	5.32	1,583.43	1.651E-02	Pulse	0.30	3
Cu			2	417.905	ug/l	3.89	10,387.83	1.084E-01	Pulse	0.30	3
Zn			2	2152.838	ug/l	2.48	13,910.48	1.451E-01	Pulse	0.30	3
As			2	46.299	ug/l	8.69	107.00	1.116E-03	Pulse	1.00	3
Cd			2	4.073	ug/l	36.46	28.88	4.451E-05	Pulse	0.30	3
Sn			2	45.611	ug/l	9.83	588.91	9.071E-04	Pulse	0.30	3
Se			3	-0.580	ug/l	-305.23	3.40	3.932E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,765,724.71	0.19	92.8	Analog	0.10	3
1	Sc		2,371,941.68	2.05	89.1	Analog	0.10	3
1	Ge		495,444.24	0.37	92.0	Pulse	0.10	3

Quantitation Report

1	Ge		691,695.85	0.33	93.6	Pulse	0.10	3
1	Rh		3,162,431.10	0.47	90.4	Analog	0.10	3
1	In		3,222,487.60	0.48	91.0	Analog	0.10	3
1	Tb		4,295,024.00	0.54	90.2	Analog	0.10	3
1	Ho		4,265,528.37	0.69	91.3	Analog	0.10	3
1	Bi		2,676,825.48	1.36	90.3	Analog	0.10	3
2	Sc		95,868.84	1.49	89.1	Pulse	0.30	3
2	Ge		64,889.55	1.01	94.2	Pulse	0.30	3
2	Ge		98,647.96	0.27	94.8	Pulse	0.30	3
2	Rh		1,619,256.39	0.39	92.5	Analog	0.30	3
2	In		649,397.00	0.49	93.9	Pulse	0.30	3
2	Tb		2,196,604.15	0.81	93.4	Analog	0.30	3
2	Ho		2,232,558.03	0.22	94.0	Analog	0.30	3
2	Bi		1,531,913.34	0.51	93.9	Analog	0.30	3
3	Sc		80,604.74	1.42	84.8	Pulse	0.30	3
3	Ge		56,549.81	0.96	89.0	Pulse	0.30	3
3	Ge		86,460.99	0.06	89.7	Pulse	0.30	3
3	Rh		932,072.36	0.21	90.1	Pulse	0.30	3
3	Tb		1,635,825.21	0.54	93.1	Analog	0.30	3

Quantitation Report

File Name	121SMPL.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:53
Sample Name	emptyconf
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	17.441	ug/l	15.82	98.67	5.367E-03	Pulse	0.25	3
B			1	618.025	ug/l	6.62	2,229.10	1.213E-01	Pulse	0.15	3
Ca			1	8380.618	ug/l	9.43	6,758.31	2.947E-01	Pulse	0.10	3
Sr			1	189.127	ug/l	6.99	196.68	2.425E-01	Pulse	0.10	3
Mo			1	117.386	ug/l	89.74	23.33	2.959E-02	Pulse	0.10	3
Ag			1	30.115	ug/l	55.81	33.33	1.794E-02	Pulse	0.10	3
Sn			1	1049.815	ug/l	15.91	796.72	4.142E-01	Pulse	0.10	3
Sb			1	264.065	ug/l	45.35	140.01	9.287E-02	Pulse	0.10	3
Ba			1	243.920	ug/l	17.52	50.00	3.331E-02	Pulse	0.10	3
Tl			1	42.248	ug/l	18.04	296.68	5.586E-02	Pulse	0.10	3
Pb			1	111.155	ug/l	1.65	276.68	5.218E-02	Pulse	0.10	3
Pb			1	91.377	ug/l	4.17	200.01	3.759E-02	Pulse	0.10	3
Pb			1	104.001	ug/l	1.35	1,030.06	1.941E-01	Pulse	0.10	3
Na			2	5517.695	ug/l	23.46	2,412.42	4.885E+00	Pulse	0.30	3
Mg			2	1646.572	ug/l	34.15	342.23	7.048E-01	Pulse	0.30	3
Al			2	2258.587	ug/l	5.27	171.12	3.362E-01	Pulse	0.30	3
K			2	86179.545	ug/l	23.96	12,888.42	2.612E+01	Pulse	0.30	3
Ca			2	2306.735	ug/l	59.57	18.89	3.761E-02	Pulse	0.30	3
Ti			2	162.091	ug/l	40.36	8.89	1.853E-02	Pulse	0.30	3
V			2	171.818	ug/l	23.31	325.57	6.570E-01	Pulse	0.30	3
Cr			2	42.937	ug/l	20.16	104.24	2.097E-01	Pulse	0.30	3
Mn			2	103.400	ug/l	26.87	135.56	2.673E-01	Pulse	0.30	3
Fe			2	4978.644	ug/l	19.59	10,068.75	2.025E+01	Pulse	0.30	3
Co			2	3.666	ug/l	86.07	14.41	2.974E-02	Pulse	0.30	3
Ni			2	126.708	ug/l	8.64	140.00	2.765E-01	Pulse	0.30	3
Cu			2	73.416	ug/l	7.40	222.23	4.359E-01	Pulse	0.30	3
Zn			2	340.526	ug/l	24.45	186.67	3.750E-01	Pulse	0.30	3
As			2	47.944	ug/l	19.95	12.00	2.408E-02	Pulse	1.00	3
Cd			2	13.104	ug/l	173.72	1.11	2.899E-03	Pulse	0.30	3
Sn			2	1329.768	ug/l	36.85	187.78	6.171E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	92.316	ug/l	43.35	1.87	8.025E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		18,366.81	0.94	0.6	Pulse	0.10	3
1	Sc		23,023.48	6.70	0.9	Pulse	0.10	3
1	Ge		2,930.39	6.58	0.5	Pulse	0.10	3
1	Ge		2,080.23	8.66	0.3	Pulse	0.10	3
1	Rh		810.05	4.45	0.0	Pulse	0.10	3
1	In		1,933.71	10.83	0.1	Pulse	0.10	3
1	Tb		1,496.80	5.40	0.0	Pulse	0.10	3
1	Ho		1,440.12	5.01	0.0	Pulse	0.10	3
1	Bi		5,307.80	9.10	0.2	Pulse	0.10	3
2	Sc		513.35	24.50	0.5	Pulse	0.30	3
2	Ge		188.89	15.01	0.3	Pulse	0.30	3
2	Ge		253.34	15.18	0.2	Pulse	0.30	3
2	Rh		293.34	6.01	0.0	Pulse	0.30	3
2	In		320.89	21.21	0.0	Pulse	0.30	3
2	Tb		670.03	12.69	0.0	Pulse	0.30	3
2	Ho		625.58	16.66	0.0	Pulse	0.30	3
2	Bi		2,329.11	6.00	0.1	Pulse	0.30	3
3	Sc		375.57	19.69	0.4	Pulse	0.30	3
3	Ge		201.12	1.91	0.3	Pulse	0.30	3
3	Ge		237.78	7.72	0.2	Pulse	0.30	3
3	Rh		161.11	45.58	0.0	Pulse	0.30	3
3	Tb		392.23	7.67	0.0	Pulse	0.30	3

Quantitation Report

File Name	122_QC2.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 20:57
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.349	ug/l	0.81	401,287.32	1.513E-01	Pulse	0.25	3
B			1	96.215	ug/l	2.35	498,385.38	1.880E-01	Pulse	0.15	3
Ca			1	5090.117	ug/l	0.57	4,208,601.08	1.766E+00	Analog	0.10	3
Sr			1	50.538	ug/l	0.45	1,935,385.23	6.476E-01	Analog	0.10	3
Mo			1	49.535	ug/l	1.27	372,988.32	1.248E-01	Pulse	0.10	3
Ag			1	50.664	ug/l	0.75	927,267.64	3.017E-01	Pulse	0.10	3
Sn			1	46.961	ug/l	1.59	570,269.15	1.855E-01	Pulse	0.10	3
Sb			1	48.817	ug/l	1.38	728,643.04	1.716E-01	Pulse	0.10	3
Ba			1	47.354	ug/l	1.65	274,303.81	6.461E-02	Pulse	0.10	3
Tl			1	51.887	ug/l	1.07	1,758,002.79	6.854E-01	Analog	0.10	3
Pb			1	49.138	ug/l	2.13	585,061.53	2.281E-01	Pulse	0.10	3
Pb			1	47.587	ug/l	1.47	496,037.99	1.934E-01	Pulse	0.10	3
Pb			1	49.782	ug/l	1.46	2,354,640.49	9.180E-01	Analog	0.10	3
Na			2	5104.061	ug/l	1.79	4,264,768.86	4.488E+01	Analog	0.30	3
Mg			2	5171.440	ug/l	1.48	2,082,910.96	2.192E+01	Analog	0.30	3
Al			2	4982.629	ug/l	0.72	698,617.21	7.352E+00	Pulse	0.30	3
K			2	5234.077	ug/l	1.69	1,512,339.56	1.591E+01	Analog	0.30	3
Ca			2	5249.679	ug/l	1.97	79,711.29	8.388E-01	Pulse	0.30	3
Ti			2	50.875	ug/l	5.29	5,487.64	5.775E-02	Pulse	0.30	3
V			2	50.439	ug/l	1.55	182,598.43	1.922E+00	Pulse	0.30	3
Cr			2	49.369	ug/l	1.64	226,528.73	2.384E+00	Pulse	0.30	3
Mn			2	49.669	ug/l	0.86	121,404.07	1.278E+00	Pulse	0.30	3
Fe			2	5163.566	ug/l	0.69	19,746,843.10	2.078E+02	Analog	0.30	3
Co			2	49.239	ug/l	0.64	374,135.99	3.937E+00	Pulse	0.30	3
Ni			2	48.967	ug/l	1.53	99,047.12	1.042E+00	Pulse	0.30	3
Cu			2	48.420	ug/l	0.87	266,878.93	2.808E+00	Pulse	0.30	3
Zn			2	47.731	ug/l	1.85	47,381.59	4.986E-01	Pulse	0.30	3
As			2	50.467	ug/l	0.30	23,912.78	2.516E-01	Pulse	1.00	3
Cd			2	48.628	ug/l	0.59	65,953.63	1.073E-01	Pulse	0.30	3
Sn			2	49.588	ug/l	1.04	141,520.75	2.302E-01	Pulse	0.30	3
Se			3	199.194	ug/l	0.45	14,551.52	1.723E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,652,056.85	1.02	89.0	Analog	0.10	3
1	Sc		2,383,636.06	1.01	89.5	Analog	0.10	3
1	Ge		476,969.90	0.35	88.6	Pulse	0.10	3

Quantitation Report

1	Ge		661,284.50	0.44	89.4	Pulse	0.10	3
1	Rh		2,988,459.43	0.60	85.4	Analog	0.10	3
1	In		3,073,458.90	0.64	86.8	Analog	0.10	3
1	Tb		4,246,154.10	1.30	89.1	Analog	0.10	3
1	Ho		4,184,714.52	0.77	89.6	Analog	0.10	3
1	Bi		2,565,171.73	0.95	86.5	Analog	0.10	3
2	Sc		95,029.79	0.40	88.3	Pulse	0.30	3
2	Ge		62,053.88	0.98	90.1	Pulse	0.30	3
2	Ge		94,218.54	0.81	90.6	Pulse	0.30	3
2	Rh		1,516,144.25	1.30	86.6	Analog	0.30	3
2	In		614,905.95	0.66	88.9	Pulse	0.30	3
2	Tb		2,142,201.24	0.67	91.1	Analog	0.30	3
2	Ho		2,185,947.13	1.08	92.0	Analog	0.30	3
2	Bi		1,459,686.82	0.40	89.5	Analog	0.30	3
3	Sc		82,849.99	0.32	87.1	Pulse	0.30	3
3	Ge		55,486.30	0.26	87.3	Pulse	0.30	3
3	Ge		84,449.41	0.24	87.6	Pulse	0.30	3
3	Rh		892,691.29	0.53	86.3	Pulse	0.30	3
3	Tb		1,590,996.15	1.42	90.6	Analog	0.30	3

Quantitation Report

File Name	123BLKV.d
File Path	10.10.4.25\depts\Metals\agilent icpms2\xa data\.b081022m1.b
Method File	
Method Path	
Acq Time	2022-08-10 21:00
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 10:57
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.007	ug/l	-75.69	294.68	1.090E-04	Pulse	0.25	3
B			1	1.472	ug/l	14.38	12,246.97	4.540E-03	Pulse	0.15	3
Ca			1	-4.740	ug/l	-4.51	7,555.35	3.182E-03	Pulse	0.10	3
Sr			1	-0.002	ug/l	-174.64	436.69	1.420E-04	Pulse	0.10	3
Mo			1	0.020	ug/l	87.42	216.67	6.971E-05	Pulse	0.10	3
Ag			1	0.005	ug/l	33.87	116.67	3.716E-05	Pulse	0.10	3
Sn			1	0.188	ug/l	5.98	3,810.61	1.212E-03	Pulse	0.10	3
Sb			1	0.019	ug/l	45.84	586.70	1.382E-04	Pulse	0.10	3
Ba			1	-0.026	ug/l	-43.75	153.34	3.629E-05	Pulse	0.10	3
Tl			1	0.029	ug/l	11.94	1,160.10	4.464E-04	Pulse	0.10	3
Pb			1	0.029	ug/l	46.29	2,290.27	8.812E-04	Pulse	0.10	3
Pb			1	0.038	ug/l	30.42	1,873.53	7.211E-04	Pulse	0.10	3
Pb			1	0.031	ug/l	16.32	8,961.46	3.449E-03	Pulse	0.10	3
Na			2	-0.739	ug/l	-24.88	2,916.96	3.050E-02	Pulse	0.30	3
Mg			2	-0.670	ug/l	-10.24	410.01	4.287E-03	Pulse	0.30	3
Al			2	0.670	ug/l	18.22	390.01	4.078E-03	Pulse	0.30	3
K			2	4.202	ug/l	28.91	13,015.15	1.361E-01	Pulse	0.30	3
Ca			2	-1.954	ug/l	-26.55	45.56	4.766E-04	Pulse	0.30	3
Ti			2	0.062	ug/l	116.53	24.44	2.557E-04	Pulse	0.30	3
V			2	0.004	ug/l	119.16	363.34	3.799E-03	Pulse	0.30	3
Cr			2	-0.020	ug/l	-36.15	149.68	1.564E-03	Pulse	0.30	3
Mn			2	0.006	ug/l	173.41	172.23	1.801E-03	Pulse	0.30	3
Fe			2	12.607	ug/l	19.79	71,604.15	7.483E-01	Pulse	0.30	3
Co			2	-0.002	ug/l	-116.36	29.80	3.121E-04	Pulse	0.30	3
Ni			2	-0.009	ug/l	-85.52	853.37	8.922E-03	Pulse	0.30	3
Cu			2	-0.062	ug/l	-9.21	788.92	8.248E-03	Pulse	0.30	3
Zn			2	-0.876	ug/l	-10.28	5,679.95	5.939E-02	Pulse	0.30	3
As			2	0.016	ug/l	78.34	26.00	2.716E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.005	ug/l	29.35	12.21	1.921E-05	Pulse	0.30	3
Sn			2	0.508	ug/l	7.97	1,536.76	2.417E-03	Pulse	0.30	3
Se			3	0.184	ug/l	26.91	17.00	2.003E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,699,874.58	1.45	90.6	Analog	0.10	3
1	Sc		2,373,909.65	2.30	89.2	Analog	0.10	3
1	Ge		480,094.43	0.57	89.2	Pulse	0.10	3
1	Ge		662,520.07	0.67	89.6	Pulse	0.10	3
1	Rh		3,086,650.48	1.70	88.2	Analog	0.10	3
1	In		3,145,351.53	1.01	88.9	Analog	0.10	3
1	Tb		4,244,653.58	1.58	89.1	Analog	0.10	3
1	Ho		4,201,677.65	1.54	89.9	Analog	0.10	3
1	Bi		2,598,320.90	0.86	87.7	Analog	0.10	3
2	Sc		95,644.43	0.55	88.9	Pulse	0.30	3
2	Ge		62,741.03	1.15	91.1	Pulse	0.30	3
2	Ge		94,179.67	1.02	90.6	Pulse	0.30	3
2	Rh		1,577,703.24	1.82	90.1	Analog	0.30	3
2	In		635,753.72	0.51	91.9	Pulse	0.30	3
2	Tb		2,167,394.63	0.65	92.2	Analog	0.30	3
2	Ho		2,204,147.76	1.31	92.8	Analog	0.30	3
2	Bi		1,501,587.65	0.74	92.1	Analog	0.30	3
3	Sc		83,208.39	0.41	87.5	Pulse	0.30	3
3	Ge		55,710.24	0.53	87.7	Pulse	0.30	3
3	Ge		84,907.16	0.52	88.1	Pulse	0.30	3
3	Rh		930,206.22	0.16	89.9	Pulse	0.30	3
3	Tb		1,623,076.71	1.04	92.4	Analog	0.30	3

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Current Signal

Operator Name	Metals
Acq. Date-Time	2022-08-10 09:35:47
Instrument Name	G3281A JP10340551
Batch Folder	D:\Agilent\ICPMH\1\DATA\.b081022m1.b

[1]

Sensitivity

Ch	Mass	Range	Count	Avg Count	RSD%
1	7	10000	5711	6157	6.966
2	59	10000	4747	4909	3.533
3	89	10000	8101	8194	5.162
4	140	10000	7610	8257	5.195
5	205	10000	5667	5531	2.377
6	156/140	2	1.051 %	1.069 %	9.942
7	70/140	5	3.811 %	3.729 %	8.426
8	9	50	21	24	20.069
9	11	500	340	345	6.973
10	88	100	58	54	10.638
11	95	50	16	14	33.443
12	107	20	1	3	89.525
13	121	50	6	18	52.967
14	137	20	4	11	31.749
15	208	100	50	54	18.227

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.30 L/min
RF Power	1500 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	7.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Q1 Entrance	---	Cell Exit	-58 V
Extract 2	-105.0 V	Q1 Exit	---	Deflect	15.8 V
Omega Bias	-55 V	Cell Focus	---	Plate Bias	-45 V
Omega Lens	6.7 V	Cell Entrance	-40 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Axial Acceleration	---
He Flow	0.0 mL/min	4th Gas Flow	---	OctP RF	190 V
H2 Flow	---	OctP Bias	-8.0 V	Energy Discrimination	5.0 V

Meter

Current Signal

Name	Value	Unit
Water RF/WC/IF	1.09	L/min
Water Temp	35.0	°C
S/C Temp (L)	2.0	°C
Reflected Power	4	W
Forward Power	1499	W

US EPA Tune Check Report

Operator Name	Metals
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\.b081022m1.b
Acq. Date-Time	2022-08-10 09:44:30
Report Comment	---
Instrument Name	G3281A JP10340551

[1]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	20.00	15084	150837.63			1.456	5.000
24	20.00	56058	560582.62			0.726	5.000
25	20.00	7192	71919.41			0.615	5.000
26	20.00	8384	83843.95			0.668	5.000
59	20.00	56724	567242.08			1.310	5.000
115	20.00	82919	829187.69			0.823	5.000
206	20.00	22165	221651.46			1.326	5.000
207	20.00	19488	194875.96			1.049	5.000
208	20.00	47258	472582.18			1.142	5.000

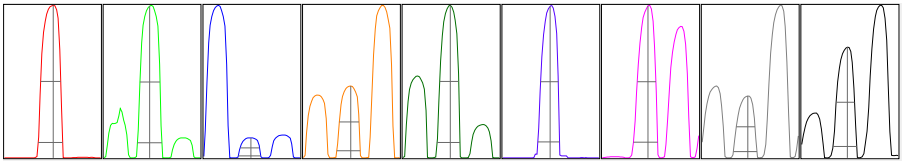
Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14754	14986	15169	15187	15322
24	56052	56493	56439	55673	55633
25	7165	7222	7255	7161	7156
26	8398	8400	8462	8318	8344
59	55641	56399	56778	57342	57462
115	82378	82256	82667	83709	83584
206	21720	22008	22345	22349	22403
207	19189	19387	19572	19570	19720
208	46675	46668	47712	47692	47545

Integration Time [sec] 0.1

Resolution/Axis

US EPA Tune Check Report



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	25440.35	9.05	8.90 - 9.10	
24	94675.70	23.95	23.90 - 24.10	
25	12505.77	25.00	24.90 - 25.10	
26	14285.97	26.00	25.90 - 26.10	
59	101777.91	59.00	58.90 - 59.10	
115	156923.76	115.00	114.90 - 115.10	
206	40098.86	205.95	205.90 - 206.10	
207	34681.88	206.95	206.90 - 207.10	
208	85635.11	207.95	207.90 - 208.10	

Mass	W-50%	W-10%	W-10% (Required)	W-10% (Flag)
9	0.61	0.749	0.900	
24	0.61	0.750	0.900	
25	0.59	0.688	0.900	
26	0.61	0.719	0.900	
59	0.58	0.702	0.900	
115	0.54	0.668	0.900	
206	0.57	0.740	0.900	
207	0.57	0.724	0.900	
208	0.56	0.729	0.900	

Integration Time [sec]	0.1
Acquisition Time [sec]	235
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.30 L/min
RF Power	1500 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	7.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.7 V	Deflect	15.8 V
Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-45 V
Omega Bias	-55 V	Cell Exit	-58 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V

US EPA Tune Check Report

He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	129	Axis Gain	0.9998	QP Bias	-3.0 V
Mass Offset	128	Axis Offset	0.05		
Hardware Settings					
Torch					
Torch H	-1.5 mm	Torch V	0.6 mm		
EM					
Discriminator	4.5 mV	Analog HV	1696 V	Pulse HV	1422 V

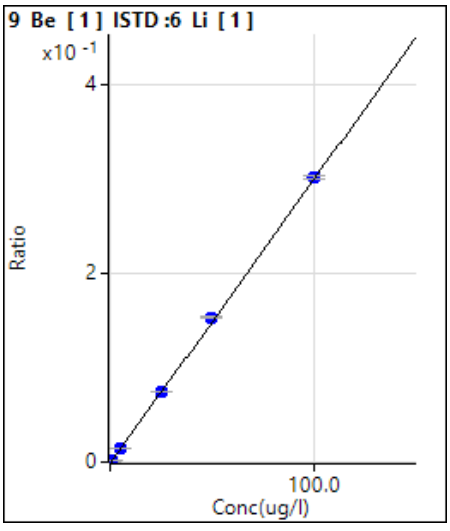
11.2.2

11

Calibration for 190SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\.b081022m1.b\
Analysis File: .b081022m1.batch.bin
DA Date-Time: 2022-08-11 10:57:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

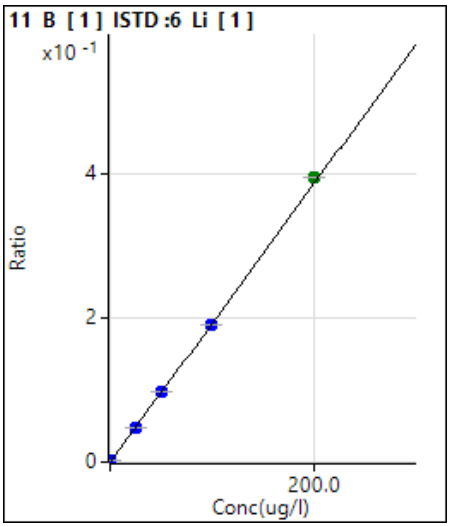
Level	Standard Data File	Sample Name	Acq. Date-Time
1	014SMPL.d	STDA	2022-08-10 12:47:28
2	004CALS.d	STDB	2022-08-10 12:04:30
3	005CALS.d	STDC	2022-08-10 12:08:08
4	006CALS.d	STDD	2022-08-10 12:11:43
5	007CALS.d	STDE	2022-08-10 12:15:20
6	008CALS.d	STDF	2022-08-10 12:18:53
7	009CALS.d	STDG	2022-08-10 12:22:25
8	010CALS.d	STDH	2022-08-10 12:25:55
9	011CALS.d	STDI	2022-08-10 12:29:33
10	012CALS.d	STDJ	2022-08-10 12:33:09



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.004	349.34	0.0001	P	18.8	
2	☐	0.500	0.504	4923.46	0.0016	P	1.2	0.8
3	☐	5.000	4.939	44590.06	0.0150	P	1.5	-1.2
4	☐	25.000	24.911	223870.53	0.0749	P	0.3	-0.4
5	☐	50.000	50.820	452722.39	0.1527	P	0.8	1.6
6	☐	100.000	100.258	902773.94	0.3012	P	0.8	0.3
7	☐			986.71	0.0003	P	5.9	
8	☐			648.02	0.0002	P	14.6	
9	☐			502.68	0.0002	P	13.3	
10	☐			438.68	0.0002	P	19.7	

y = 0.0030 * x + 1.2977E-004
R = 1.0000
DL = 0.02196 ug/l
BEC = 0.04322 ug/l

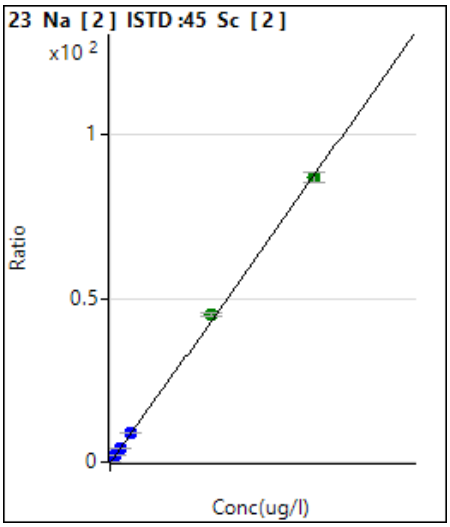
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.050	5329.87	0.0018	P	4.5	
2	☐	25.000	23.833	143261.45	0.0478	P	0.3	-4.7
3	☐			39114.43	0.0131	P	2.1	
4	☐			145299.74	0.0486	P	1.7	
5	☐	50.000	49.918	291453.44	0.0983	P	0.7	-0.2
6	☐	100.000	97.688	571915.46	0.1908	P	0.5	-2.3
7	☐	200.000	203.690	1160328.08	0.3960	A	0.5	1.8
8	☐			35163.56	0.0118	P	6.0	
9	☐			14246.26	0.0048	P	3.7	
10	☐			9622.98	0.0033	P	2.9	

y = 0.001936 * x + 0.001691
R = 0.9998
DL = 0.1236 ug/l
BEC = 0.8733 ug/l

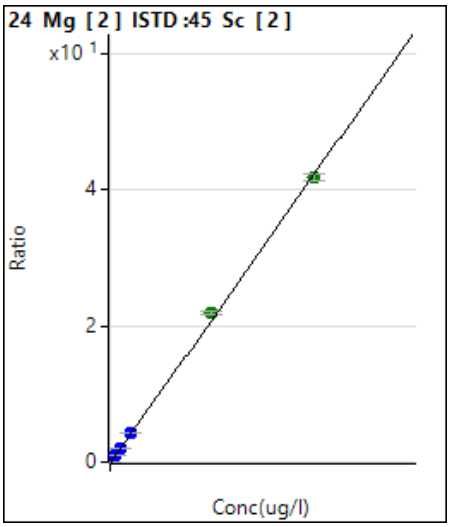
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.026	4006.09	0.0372	P	1.6	
2	☐	250.000	247.470	229469.95	2.2112	P	0.9	-1.0
3	☐			11730.87	0.1101	P	1.9	
4	☐			27939.81	0.2596	P	0.2	
5	☐			53110.58	0.4931	P	1.7	
6	☐			102442.47	0.9564	P	1.4	
7	☐	500.000	498.285	474009.27	4.4147	P	1.3	-0.3
8	☐	1000.000	994.142	948401.14	8.7711	P	2.0	-0.6
9	☐	5000.000	5124.037	4976742.72	45.0547	A	1.9	2.5
10	☐	10000.000	9890.322	9692629.89	86.9294	A	3.2	-1.1

y = 0.008786 * x + 0.036996
R = 0.9998
DL = 0.1987 ug/l
BEC = 4.211 ug/l

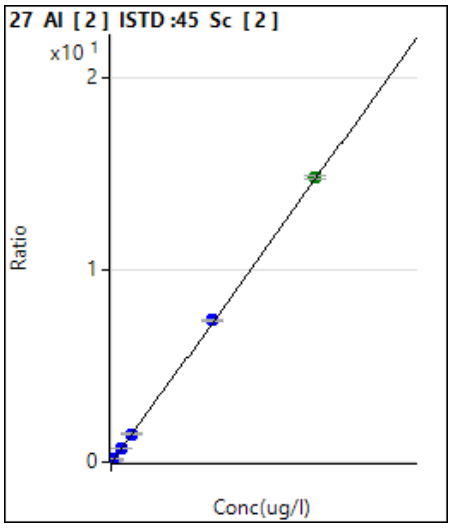
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.015	773.36	0.0072	P	0.2	
2	☐	250.000	248.160	109863.99	1.0586	P	0.7	-0.7
3	☐			3363.71	0.0316	P	5.5	
4	☐			12200.08	0.1134	P	2.9	
5	☐			24086.16	0.2236	P	2.8	
6	☐			46390.00	0.4331	P	0.6	
7	☐	500.000	495.173	226035.46	2.1053	P	1.3	-1.0
8	☐	1000.000	990.933	454772.40	4.2059	P	2.0	-0.9
9	☐	5000.000	5165.400	2418424.69	21.8938	A	2.2	3.3
10	☐	10000.000	9857.808	4658473.42	41.7762	A	2.7	-1.4

y = 0.004237 * x + 0.007126
R = 0.9997
DL = 0.01107 ug/l
BEC = 1.682 ug/l

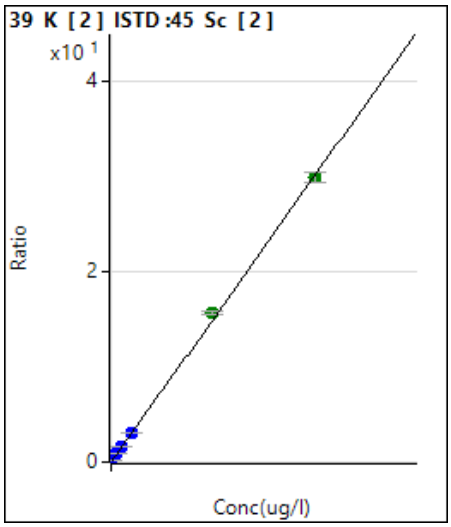
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.085	318.89	0.0030	P	7.6	
2	☐	25.000	26.759	4416.18	0.0426	P	1.2	7.0
3	☐			1070.05	0.0100	P	1.9	
4	☐			4056.09	0.0377	P	6.4	
5	☐	50.000	50.454	8345.50	0.0775	P	4.5	0.9
6	☐	100.000	101.145	16310.27	0.1523	P	1.0	1.1
7	☐	500.000	488.876	77743.29	0.7241	P	1.6	-2.2
8	☐	1000.000	982.686	157031.89	1.4524	P	2.7	-1.7
9	☐	5000.000	4993.380	813875.65	7.3676	P	0.8	-0.1
10	☐	10000.000	10032.585	1650760.77	14.7996	A	1.5	0.3

y = 0.001475 * x + 0.003089
R = 1.0000
DL = 0.4602 ug/l
BEC = 2.094 ug/l

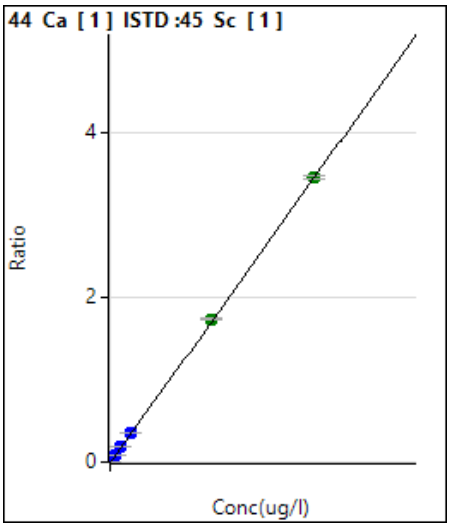
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	2.401	14057.16	0.1306	P	0.9	
2	☐	250.000	241.570	88442.55	0.8522	P	0.3	-3.4
3	☐			14827.82	0.1391	P	2.1	
4	☐			21235.81	0.1973	P	0.7	
5	☐			29689.77	0.2756	P	1.4	
6	☐			45286.75	0.4228	P	1.7	
7	☐	500.000	487.958	171313.77	1.5955	P	1.0	-2.4
8	☐	1000.000	976.545	331882.85	3.0696	P	2.6	-2.3
9	☐	5000.000	5167.011	1735478.16	15.7120	A	2.6	3.3
10	☐	10000.000	9882.463	3338039.87	29.9383	A	3.4	-1.2

y = 0.003017 * x + 0.123395
R = 0.9997
DL = 1.137 ug/l
BEC = 40.9 ug/l

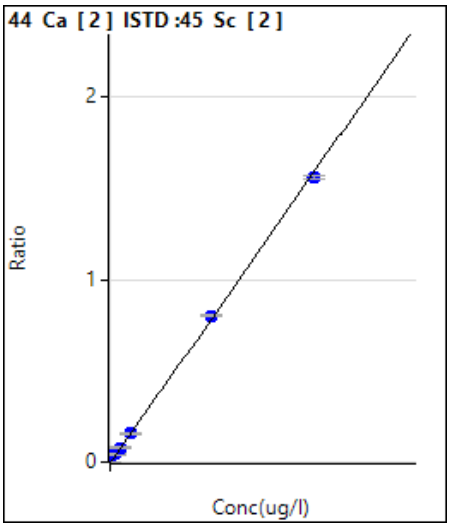
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.482	12391.74	0.0047	P	2.4	
2	☐	250.000	245.771	240585.81	0.0898	P	1.0	-1.7
3	☐			23497.41	0.0087	P	0.8	
4	☐			44333.44	0.0165	P	1.2	
5	☐			76274.89	0.0287	P	2.0	
6	☐			153532.57	0.0583	P	0.6	
7	☐	500.000	524.839	491919.08	0.1864	P	1.3	5.0
8	☐	1000.000	1009.322	948658.95	0.3540	P	0.5	0.9
9	☐	5000.000	4997.195	4763326.28	1.7335	A	0.7	-0.1
10	☐	10000.000	9974.737	9397609.03	3.4554	A	1.3	-0.3

y = 3.459358E-004 * x + 0.004822
R = 1.0000
DL = 0.983 ug/l
BEC = 13.94 ug/l

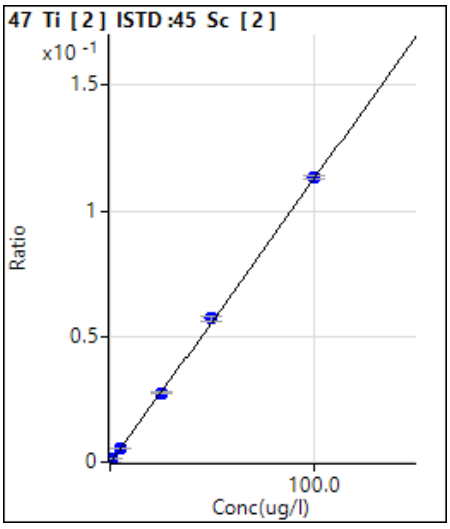
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.149	82.22	0.0008	P	12.7	
2	☐	250.000	260.212	4392.85	0.0423	P	1.5	4.1
3	☐			585.57	0.0055	P	13.7	
4	☐			2151.28	0.0200	P	4.4	
5	☐			4442.88	0.0413	P	7.0	
6	☐			8639.03	0.0807	P	2.3	
7	☐	500.000	495.073	8571.18	0.0798	P	0.9	-1.0
8	☐	1000.000	977.783	16959.93	0.1569	P	3.4	-2.2
9	☐	5000.000	5015.950	88545.51	0.8015	P	0.6	0.3
10	☐	10000.000	9772.511	174085.74	1.5609	P	1.5	-2.3

y = 1.5964E-004 * x + 7.8859E-004
R = 0.9999
DL = 1.829 ug/l
BEC = 4.94 ug/l

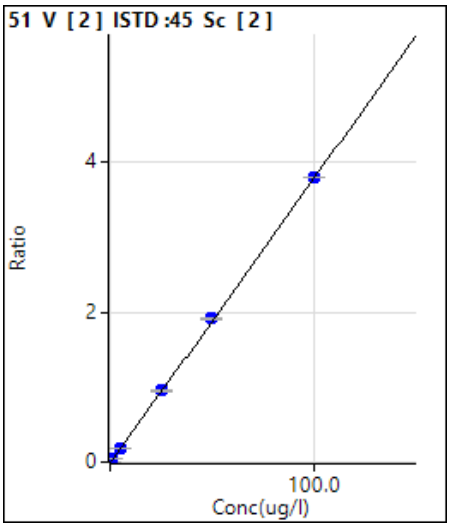
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0002	P	101.2	
2	☐	1.000	0.941	130.00	0.0013	P	34.1	-5.9
3	☐	5.000	4.526	565.58	0.0053	P	5.1	-9.5
4	☐	25.000	24.204	2966.97	0.0276	P	1.4	-3.2
5	☐	50.000	50.336	6155.66	0.0571	P	3.1	0.7
6	☐	100.000	100.055	12146.78	0.1134	P	0.9	0.1
7	☐			52.22	0.0005	P	54.1	
8	☐			31.11	0.0003	P	110.1	
9	☐			10.00	0.0001	P	67.1	
10	☐			14.44	0.0001	P	34.7	

y = 0.0011 * x + 1.8589E-004
R = 1.0000
DL = 0.4988 ug/l
BEC = 0.1643 ug/l

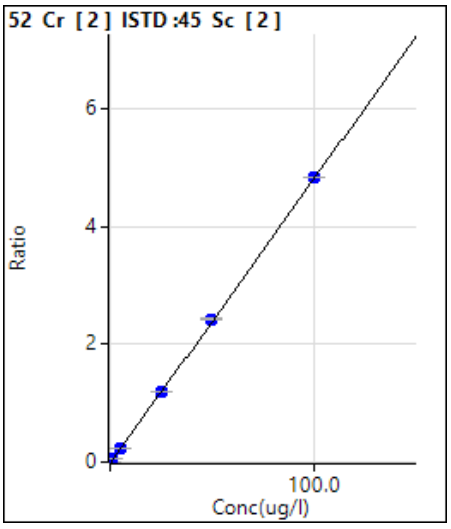
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	393.34	0.0037	P	8.1	
2	☐	1.000	1.019	4399.53	0.0424	P	3.4	1.9
3	☐	5.000	4.856	20070.04	0.1883	P	0.4	-2.9
4	☐	25.000	24.948	102470.06	0.9523	P	1.5	-0.2
5	☐	50.000	50.234	206119.94	1.9138	P	2.2	0.5
6	☐	100.000	99.903	407312.00	3.8024	P	0.2	-0.1
7	☐			296.67	0.0028	P	10.0	
8	☐			292.23	0.0027	P	14.0	
9	☐			332.23	0.0030	P	23.1	
10	☐			351.12	0.0032	P	11.2	

y = 0.0380 * x + 0.0037
R = 1.0000
DL = 0.02349 ug/l
BEC = 0.09609 ug/l

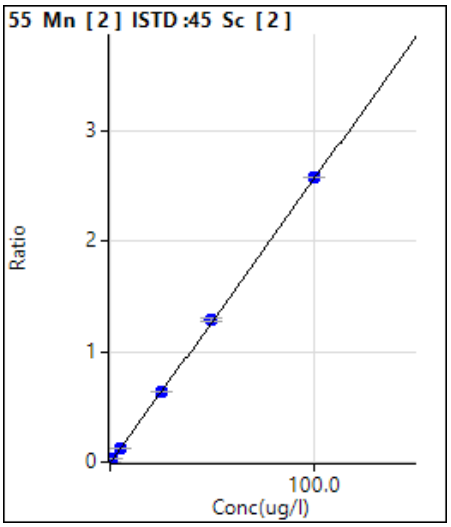
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.12	0.0026	P	4.4	
2	☐	1.000	1.027	5406.41	0.0521	P	4.1	2.7
3	☐	5.000	4.848	25196.32	0.2364	P	0.9	-3.0
4	☐	25.000	24.775	128867.74	1.1975	P	1.0	-0.9
5	☐	50.000	50.204	261103.91	2.4241	P	1.4	0.4
6	☐	100.000	100.103	517494.55	4.8310	P	0.1	0.1
7	☐			433.73	0.0040	P	4.6	
8	☐			324.41	0.0030	P	6.8	
9	☐			276.99	0.0025	P	27.2	
10	☐			296.25	0.0027	P	13.3	

y = 0.0482 * x + 0.0025
R = 1.0000
DL = 0.007083 ug/l
BEC = 0.05282 ug/l

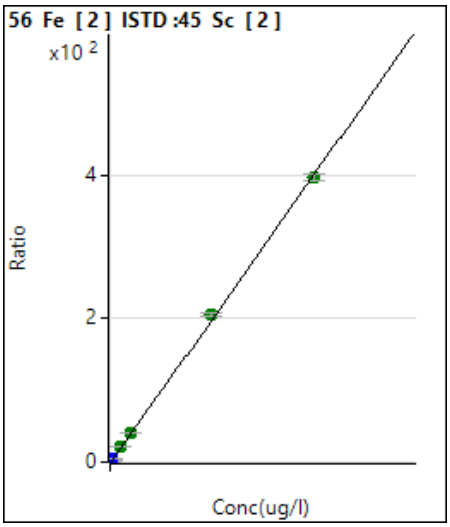
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0016	P	17.6	
2	☐	1.000	1.037	2936.96	0.0283	P	5.0	3.7
3	☐	5.000	4.908	13612.39	0.1277	P	2.8	-1.8
4	☐	25.000	24.658	68341.67	0.6351	P	1.0	-1.4
5	☐	50.000	49.918	138285.28	1.2839	P	2.0	-0.2
6	☐	100.000	100.172	275808.71	2.5748	P	0.3	0.2
7	☐			337.79	0.0031	P	16.9	
8	☐			322.23	0.0030	P	8.7	
9	☐			593.35	0.0054	P	5.4	
10	☐			1037.83	0.0093	P	9.9	

y = 0.0257 * x + 0.0017
R = 1.0000
DL = 0.03363 ug/l
BEC = 0.06425 ug/l

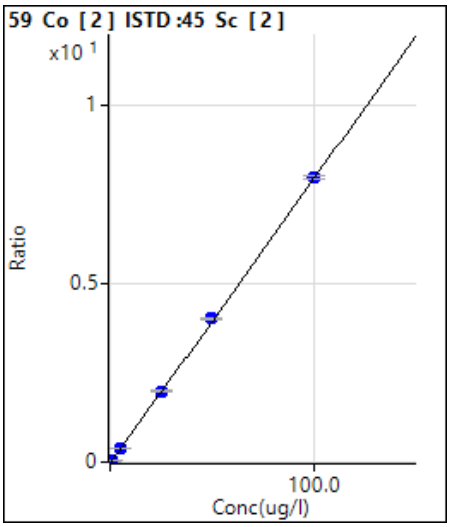
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.399	27730.37	0.2576	P	13.3	
2	☐	25.000	21.867	116294.21	1.1206	P	1.1	-12.5
3	☐			35677.43	0.3347	P	3.3	
4	☐			120695.23	1.1216	P	0.7	
5	☐	50.000	48.841	237484.95	2.2048	P	1.4	-2.3
6	☐	100.000	101.474	462815.35	4.3205	P	0.4	1.5
7	☐	500.000	517.411	2258919.01	21.0398	A	1.8	3.5
8	☐	1000.000	1017.146	4446571.07	41.1275	A	2.7	1.7
9	☐	5000.000	5108.179	22707616.32	205.5736	A	1.9	2.2
10	☐	10000.000	9865.102	44245949.35	396.7863	A	2.7	-1.3

y = 0.040197 * x + 0.241579
R = 0.9999
DL = 2.558 ug/l
BEC = 6.01 ug/l

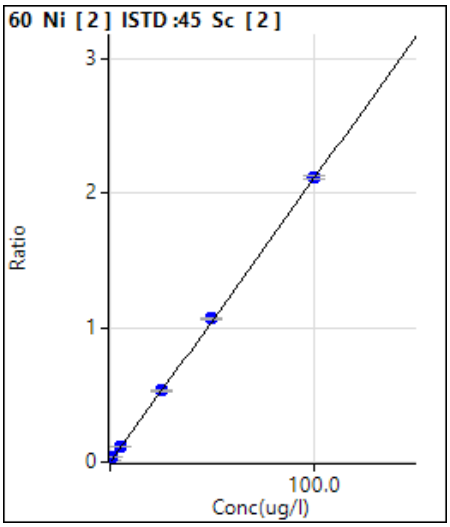
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.59	0.0004	P	33.3	
2	☐	0.500	0.513	4299.19	0.0414	P	2.3	2.6
3	☐	5.000	4.889	41702.79	0.3913	P	0.4	-2.2
4	☐	25.000	24.776	213189.28	1.9812	P	2.1	-0.9
5	☐	50.000	50.345	433586.08	4.0255	P	1.5	0.7
6	☐	100.000	99.985	856344.63	7.9943	P	0.9	0.0
7	☐			130.57	0.0012	P	15.5	
8	☐			151.33	0.0014	P	13.7	
9	☐			427.59	0.0039	P	6.1	
10	☐			820.57	0.0074	P	10.1	

y = 0.079950 * x + 4.332323E-004
R = 1.0000
DL = 0.005423 ug/l
BEC = 0.005419 ug/l

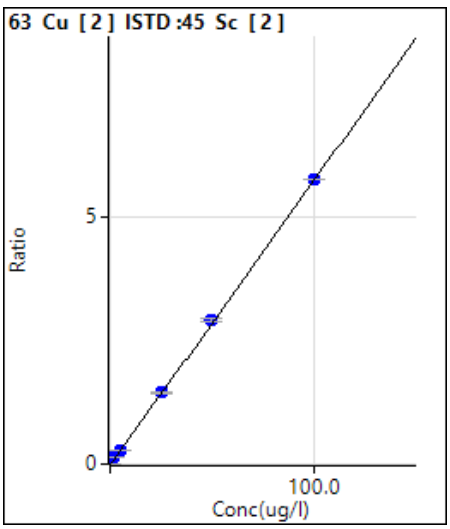
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.065	1126.72	0.0105	P	2.6	
2	☐	1.000	1.147	3457.07	0.0333	P	2.4	14.7
3	☐	5.000	4.886	11960.03	0.1122	P	2.2	-2.3
4	☐	25.000	24.742	57156.51	0.5312	P	2.2	-1.0
5	☐	50.000	50.184	115033.17	1.0680	P	1.6	0.4
6	☐	100.000	99.977	226947.07	2.1186	P	0.9	0.0
7	☐			1212.29	0.0113	P	3.9	
8	☐			1122.28	0.0104	P	3.3	
9	☐			1346.74	0.0122	P	1.8	
10	☐			1690.11	0.0152	P	6.6	

y = 0.021100 * x + 0.009111
R = 1.0000
DL = 0.03826 ug/l
BEC = 0.4318 ug/l

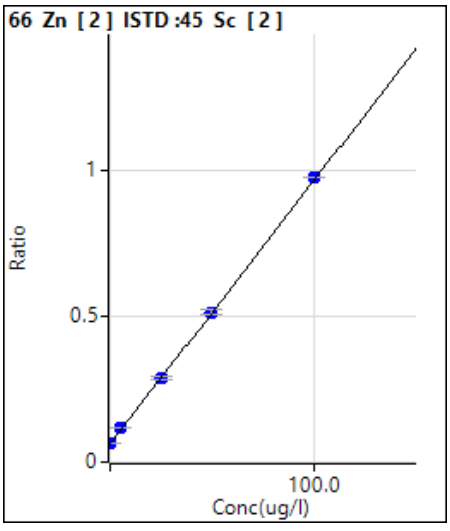
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.003	1252.29	0.0116	P	8.4	
2	☐	2.000	2.107	13858.17	0.1335	P	2.1	5.4
3	☐	5.000	4.877	31280.96	0.2935	P	1.4	-2.5
4	☐	25.000	24.846	155690.79	1.4468	P	2.0	-0.6
5	☐	50.000	50.262	313940.65	2.9148	P	2.1	0.5
6	☐	100.000	99.911	619406.54	5.7824	P	0.5	-0.1
7	☐			2277.96	0.0212	P	5.8	
8	☐			1586.76	0.0147	P	8.1	
9	☐			1985.70	0.0180	P	8.2	
10	☐			2059.04	0.0185	P	4.3	

y = 0.057757 * x + 0.011837
R = 1.0000
DL = 0.0507 ug/l
BEC = 0.205 ug/l

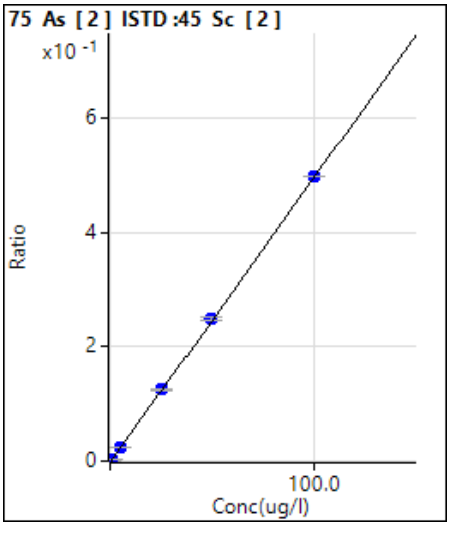
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.176	7069.37	0.0657	P	2.6	
2	☐	5.000	5.570	12207.99	0.1176	P	2.6	11.4
3	☐			11809.93	0.1108	P	2.1	
4	☐	25.000	24.457	31027.20	0.2883	P	2.3	-2.2
5	☐	50.000	49.474	55396.49	0.5144	P	2.8	-1.1
6	☐	100.000	100.722	104706.86	0.9775	P	0.3	0.7
7	☐			8976.98	0.0836	P	1.4	
8	☐			7395.08	0.0684	P	2.9	
9	☐			7227.23	0.0654	P	4.4	
10	☐			10957.10	0.0982	P	2.0	

y = 0.009036 * x + 0.067298
R = 0.9999
DL = 0.5596 ug/l
BEC = 7.447 ug/l

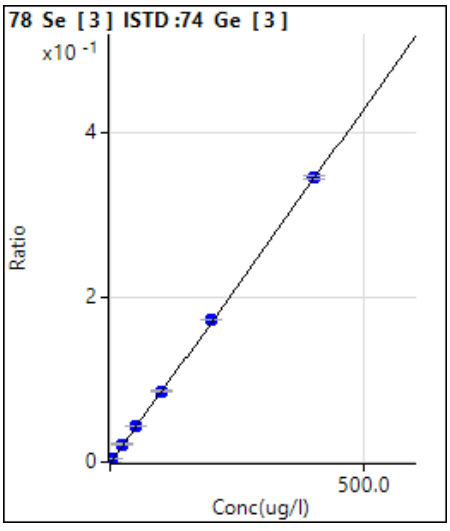
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.004	22.67	0.0002	P	29.5	
2	☐	0.500	0.490	273.33	0.0026	P	5.0	-2.1
3	☐	5.000	4.855	2598.55	0.0244	P	2.6	-2.9
4	☐	25.000	25.040	13446.22	0.1250	P	1.8	0.2
5	☐	50.000	49.866	26780.22	0.2486	P	1.8	-0.3
6	☐	100.000	100.030	53407.39	0.4986	P	0.2	0.0
7	☐			58.67	0.0005	P	29.8	
8	☐			30.33	0.0003	P	9.4	
9	☐			23.67	0.0002	P	24.7	
10	☐			32.33	0.0003	P	13.0	

y = 0.0050 * x + 1.9339E-004
R = 1.0000
DL = 0.03744 ug/l
BEC = 0.03881 ug/l

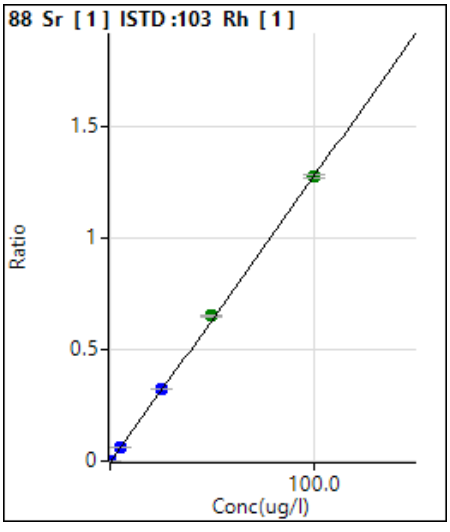
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4.00	0.0000	P	13.1	
2	☐	0.500	0.498	43.93	0.0005	P	4.0	-0.3
3	☐	5.000	4.985	413.14	0.0044	P	1.5	-0.3
4	☐	25.000	25.020	2078.00	0.0217	P	2.3	0.1
5	☐	50.000	50.228	4189.27	0.0435	P	0.7	0.5
6	☐	100.000	99.313	8298.97	0.0859	P	2.1	-0.7
7	☐	200.000	200.791	16736.13	0.1737	P	0.1	0.4
8	☐	400.000	399.673	33692.21	0.3457	P	0.7	-0.1
9	☐			43.73	0.0005	P	8.6	
10	☐			14.07	0.0001	P	8.2	

y = 8.648287E-004 * x + 4.133069E-005
R = 1.0000
DL = 0.01881 ug/l
BEC = 0.04779 ug/l

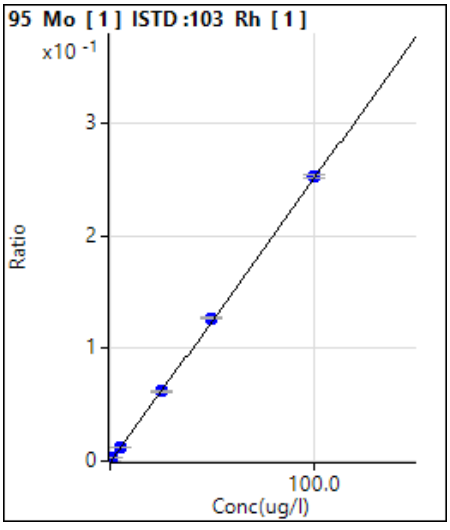
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	626.70	0.0002	P	18.2	
2	☐	5.000	4.841	215580.84	0.0622	P	1.1	-3.2
3	☐	5.000	4.862	215396.33	0.0625	P	1.0	-2.8
4	☐	25.000	24.998	1102202.77	0.3204	P	0.9	0.0
5	☐	50.000	50.807	2214767.31	0.6511	A	1.2	1.6
6	☐	100.000	99.516	4327337.33	1.2751	A	0.6	-0.5
7	☐			1536.80	0.0005	P	4.8	
8	☐			1580.17	0.0005	P	37.4	
9	☐			2253.58	0.0007	P	8.3	
10	☐			3343.82	0.0010	P	6.0	

y = 0.012811 * x + 1.700681E-004
R = 0.9999
DL = 0.007624 ug/l
BEC = 0.01327 ug/l

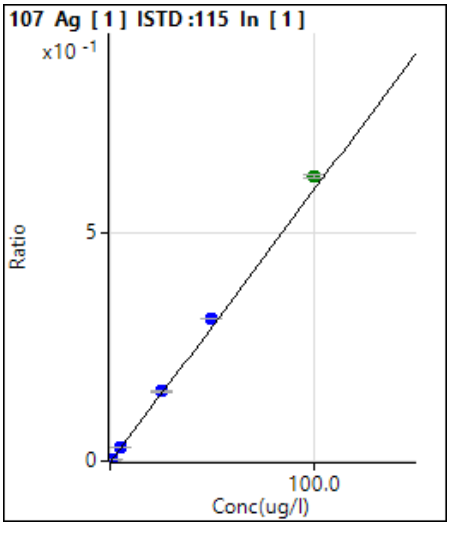
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	80.00	0.0000	P	65.8	
2	☐	1.000	0.925	8145.69	0.0023	P	3.4	-7.5
3	☐	5.000	4.807	41832.34	0.0121	P	1.2	-3.9
4	☐	25.000	24.543	212731.09	0.0618	P	2.2	-1.8
5	☐	50.000	50.350	431537.35	0.1269	P	1.5	0.7
6	☐	100.000	100.401	858463.17	0.2530	P	1.0	0.4
7	☐			623.38	0.0002	P	17.2	
8	☐			303.35	0.0001	P	3.8	
9	☐			193.34	0.0001	P	23.9	
10	☐			250.01	0.0001	P	28.8	

y = 0.002519 * x + 1.999318E-005
R = 1.0000
DL = 0.01797 ug/l
BEC = 0.007936 ug/l

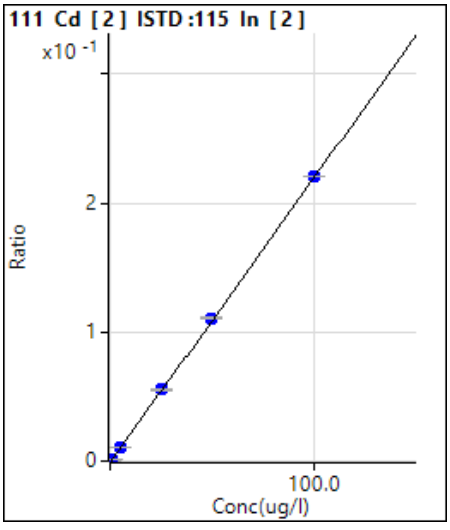
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	33.33	0.0000	P	75.1	
2	☐	0.500	0.462	9790.00	0.0028	P	2.5	-7.6
3	☐	5.000	4.835	101661.91	0.0288	P	0.7	-3.3
4	☐	25.000	25.654	542627.13	0.1528	P	1.3	2.6
5	☐	50.000	52.269	1083163.13	0.3113	P	0.9	4.5
6	☐	100.000	104.520	2129371.16	0.6224	A	1.6	4.5
7	☐			273.34	0.0001	P	18.1	
8	☐			183.34	0.0001	P	12.1	
9	☐			83.34	0.0000	P	59.0	
10	☐			80.00	0.0000	P	11.1	

y = 0.0060 * x + 6.0401E-006
R = 1.0000
DL = 0.003551 ug/l
BEC = 0.001014 ug/l

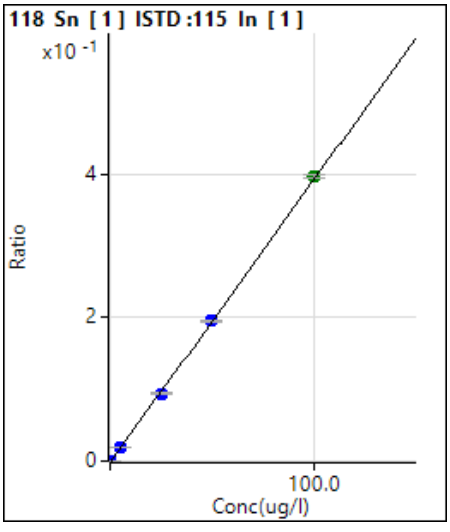
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	0.500	0.501	746.21	0.0011	P	20.0	0.2
3	☐	5.000	4.853	7309.36	0.0107	P	1.3	-2.9
4	☐	25.000	25.084	37855.28	0.0553	P	1.1	0.3
5	☐	50.000	50.169	76244.08	0.1107	P	1.1	0.3
6	☐	100.000	100.093	151366.21	0.2208	P	0.3	0.1
7	☐			46.62	0.0001	P	21.1	
8	☐			27.76	0.0000	P	25.6	
9	☐			16.65	0.0000	P	69.6	
10	☐			22.20	0.0000	P	53.7	

y = 0.0022 * x + 8.5769E-006
R = 1.0000
DL = 0.01139 ug/l
BEC = 0.003889 ug/l

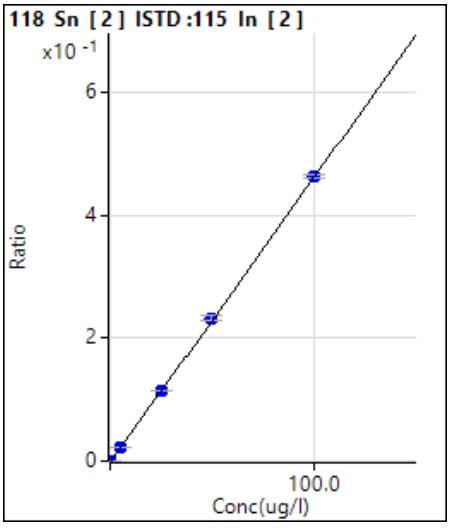
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1663.50	0.0005	P	11.8	
2	☐	5.000	4.545	65276.41	0.0184	P	1.8	-9.1
3	☐			66260.15	0.0188	P	2.3	
4	☐	25.000	23.653	332754.58	0.0937	P	1.8	-5.4
5	☐	50.000	49.383	678934.93	0.1951	P	0.6	-1.2
6	☐	100.000	100.668	1359105.92	0.3972	A	1.6	0.7
7	☐			15374.70	0.0044	P	12.7	
8	☐			4624.20	0.0013	P	5.1	
9	☐			2740.35	0.0008	P	1.5	
10	☐			2136.91	0.0006	P	10.6	

y = 0.0039 * x + 4.6980E-004
R = 0.9999
DL = 0.04207 ug/l
BEC = 0.1192 ug/l

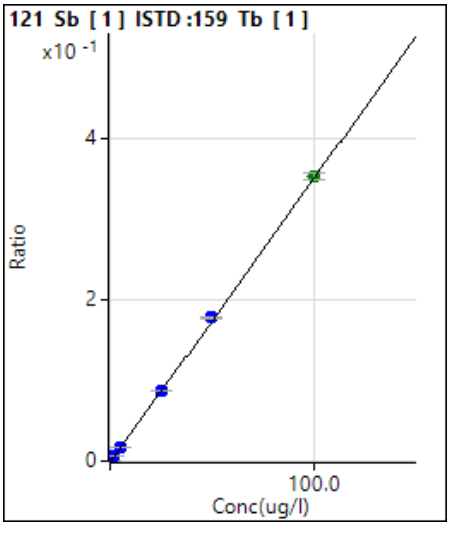
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.164	570.02	0.0008	P	17.8	
2	☐	5.000	4.980	15521.11	0.0232	P	2.1	-0.4
3	☐			15715.74	0.0230	P	1.1	
4	☐	25.000	24.632	78229.41	0.1144	P	1.0	-1.5
5	☐	50.000	50.260	160711.18	0.2333	P	2.5	0.5
6	☐	100.000	99.963	318055.51	0.4639	P	1.3	0.0
7	☐			6989.44	0.0100	P	12.5	
8	☐			2082.39	0.0030	P	11.9	
9	☐			1188.95	0.0017	P	8.2	
10	☐			745.58	0.0011	P	4.0	

y = 0.004640 * x + 6.055212E-005
R = 1.0000
DL = 0.09495 ug/l
BEC = 0.01305 ug/l

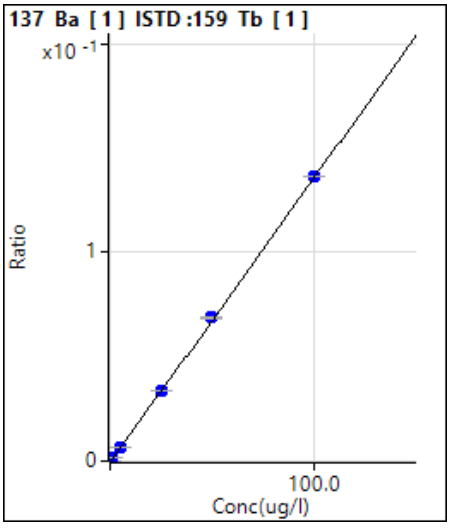
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.003	400.02	0.0001	P	23.7	
2	☐	2.000	1.813	30791.12	0.0064	P	3.3	-9.4
3	☐	5.000	4.791	80372.28	0.0169	P	0.2	-4.2
4	☐	25.000	24.682	412660.72	0.0868	P	1.7	-1.3
5	☐	50.000	50.475	836851.32	0.1774	P	0.9	1.0
6	☐	100.000	100.273	1663299.66	0.3524	A	2.1	0.3
7	☐			5131.06	0.0011	P	12.0	
8	☐			1900.19	0.0004	P	11.3	
9	☐			1556.81	0.0003	P	3.6	
10	☐			1610.15	0.0003	P	7.7	

y = 0.003514 * x + 7.156308E-005
R = 1.0000
DL = 0.01693 ug/l
BEC = 0.02036 ug/l

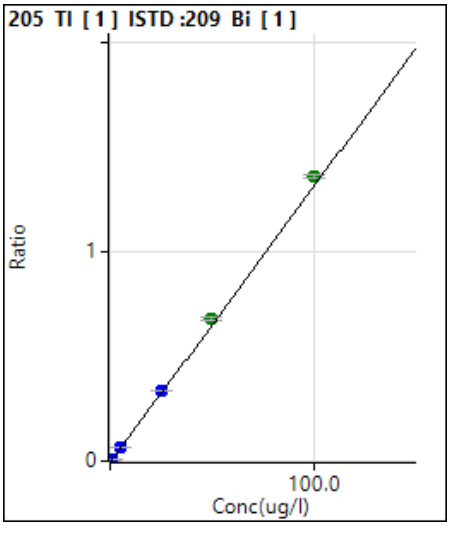
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.005	376.69	0.0001	P	14.5	
2	☐	1.000	0.962	6611.66	0.0014	P	1.6	-3.8
3	☐	5.000	4.741	31051.83	0.0065	P	2.4	-5.2
4	☐	25.000	24.746	160661.69	0.0338	P	1.6	-1.0
5	☐	50.000	50.434	324477.80	0.0688	P	1.3	0.9
6	☐	100.000	100.134	644457.58	0.1365	P	0.5	0.1
7	☐			710.05	0.0002	P	12.9	
8	☐			343.35	0.0001	P	24.0	
9	☐			523.37	0.0001	P	11.0	
10	☐			663.37	0.0001	P	17.4	

y = 0.001363 * x + 7.190650E-005
R = 1.0000
DL = 0.02526 ug/l
BEC = 0.05276 ug/l

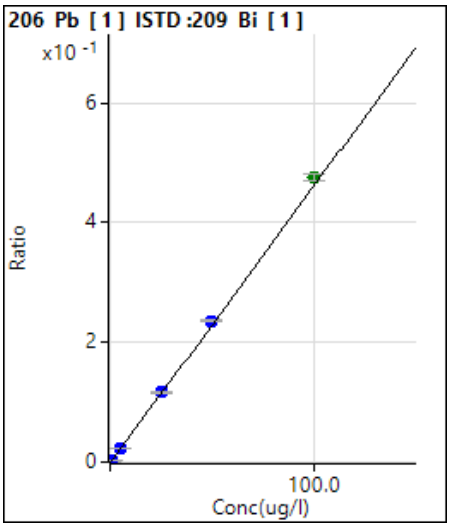
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.68	0.0001	P	8.7	
2	☐	0.500	0.482	19086.21	0.0064	P	0.9	-3.6
3	☐	5.000	4.890	192414.33	0.0646	P	1.7	-2.2
4	☐	25.000	25.471	1000580.20	0.3365	P	0.7	1.9
5	☐	50.000	51.765	2029138.56	0.6838	A	2.1	3.5
6	☐	100.000	103.163	4018577.54	1.3626	A	1.4	3.2
7	☐			2587.00	0.0009	P	5.9	
8	☐			1110.08	0.0004	P	15.2	
9	☐			563.37	0.0002	P	24.2	
10	☐			416.69	0.0001	P	3.7	

y = 0.0132 * x + 5.7547E-005
R = 1.0000
DL = 0.001175 ug/l
BEC = 0.004357 ug/l

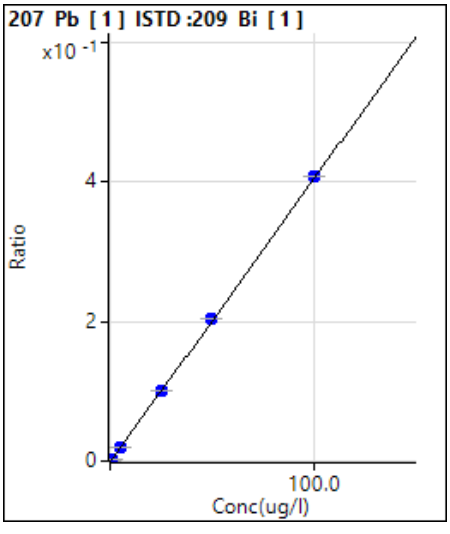
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.002	2196.90	0.0007	P	2.9	
2	☐	0.500	0.502	9129.81	0.0031	P	0.7	0.5
3	☐	5.000	4.896	69661.13	0.0234	P	1.5	-2.1
4	☐	25.000	24.928	345205.71	0.1161	P	0.5	-0.3
5	☐	50.000	50.879	700817.72	0.2361	P	1.4	1.8
6	☐	100.000	102.640	1402610.40	0.4756	A	2.0	2.6
7	☐			2717.02	0.0009	P	6.5	
8	☐			2683.69	0.0009	P	8.9	
9	☐			2520.33	0.0009	P	4.4	
10	☐			2713.70	0.0010	P	5.6	

y = 0.0046 * x + 7.4901E-004
R = 1.0000
DL = 0.0139 ug/l
BEC = 0.1619 ug/l

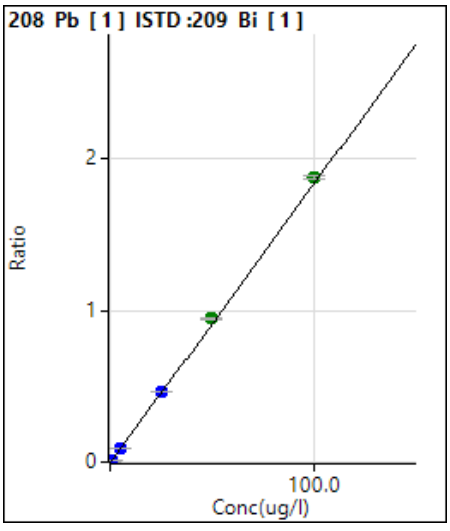
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.011	1813.52	0.0006	P	5.0	
2	☐	0.500	0.492	7608.91	0.0026	P	1.1	-1.7
3	☐	5.000	4.754	59035.35	0.0198	P	1.2	-4.9
4	☐	25.000	24.625	298395.91	0.1003	P	1.2	-1.5
5	☐	50.000	50.205	605405.68	0.2040	P	1.0	0.4
6	☐	100.000	100.436	1201925.22	0.4075	P	0.5	0.4
7	☐			2356.94	0.0008	P	1.9	
8	☐			2206.93	0.0007	P	4.1	
9	☐			2200.25	0.0008	P	2.9	
10	☐			2320.28	0.0008	P	11.2	

y = 0.004052 * x + 5.689666E-004
R = 1.0000
DL = 0.0228 ug/l
BEC = 0.1404 ug/l

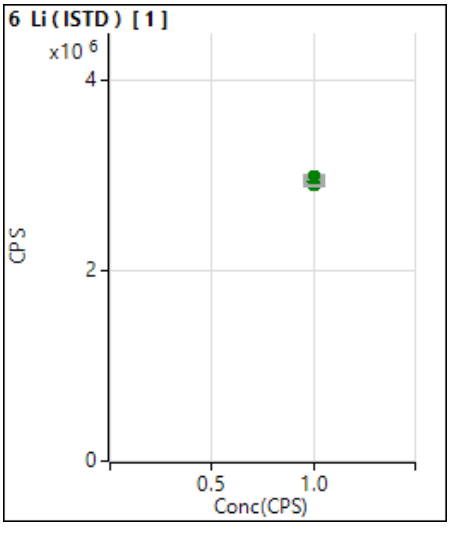
Weight: 1/y
Min Conc: <None>



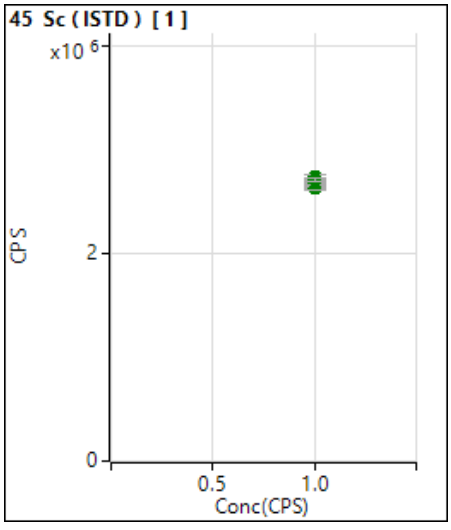
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.005	8781.41	0.0030	P	4.5	
2	☐	0.500	0.496	35648.13	0.0120	P	1.5	-0.7
3	☐	5.000	4.894	276384.54	0.0928	P	0.8	-2.1
4	☐	25.000	25.097	1380444.05	0.4642	P	0.8	0.4
5	☐	50.000	51.215	2802463.54	0.9443	A	1.4	2.4
6	☐	100.000	101.896	5532474.63	1.8759	A	1.2	1.9
7	☐			10681.89	0.0036	P	4.3	
8	☐			10308.52	0.0035	P	5.5	
9	☐			10088.43	0.0035	P	1.8	
10	☐			11078.79	0.0039	P	3.0	

y = 0.0184 * x + 0.0029
R = 1.0000
DL = 0.02174 ug/l
BEC = 0.1564 ug/l

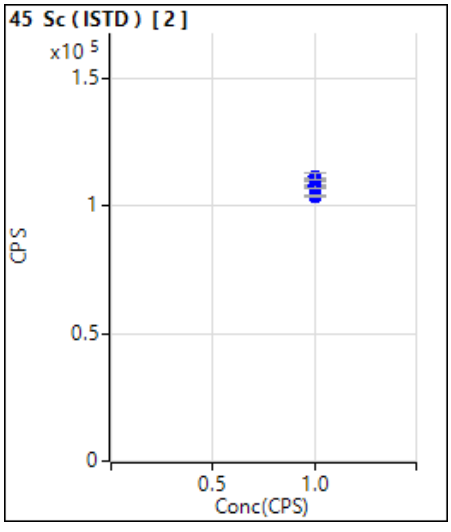
Weight: 1/SD^2
Min Conc: <None>



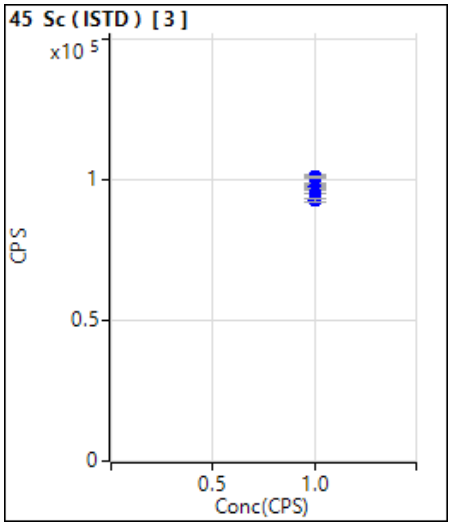
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2980003.85		A	1.6	
2	☐	1.000		2995382.32		A	1.2	
3	☐	1.000		2981105.20		A	2.5	
4	☐	1.000		2987704.93		A	1.3	
5	☐	1.000		2964197.75		A	0.5	
6	☐	1.000		2997483.95		A	0.6	
7	☐	1.000		2930055.90		A	0.2	
8	☐	1.000		2982500.24		A	0.1	
9	☐	1.000		2942717.49		A	1.3	
10	☐	1.000		2898503.06		A	0.4	



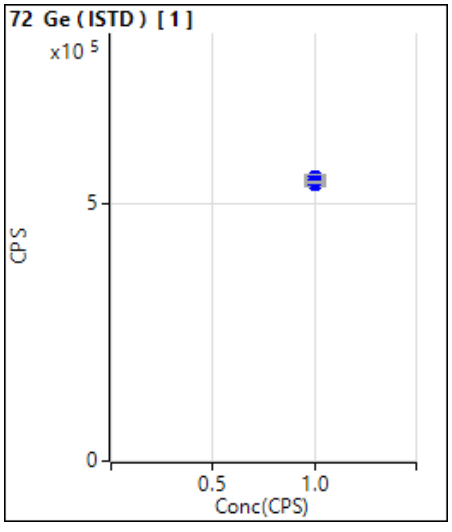
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2662477.67		A	1.0	
2	☐	1.000		2677919.44		A	0.6	
3	☐	1.000		2689382.15		A	0.2	
4	☐	1.000		2690336.63		A	1.2	
5	☐	1.000		2656502.77		A	0.9	
6	☐	1.000		2634870.07		A	0.4	
7	☐	1.000		2639650.74		A	1.5	
8	☐	1.000		2679993.71		A	0.9	
9	☐	1.000		2747877.46		A	1.0	
10	☐	1.000		2719908.40		A	1.3	



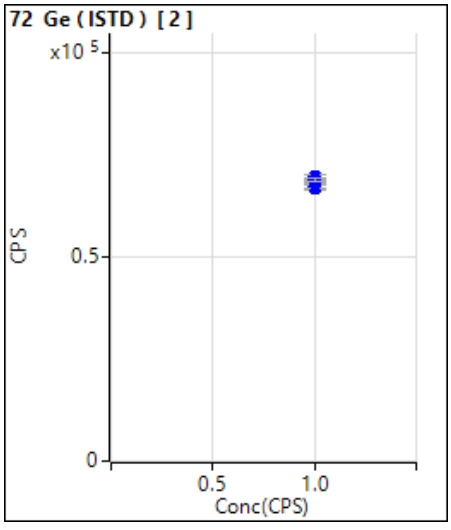
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		107597.45		P	1.1	
2	☐	1.000		103782.63		P	0.7	
3	☐	1.000		106583.30		P	0.1	
4	☐	1.000		107618.40		P	1.2	
5	☐	1.000		107723.87		P	1.3	
6	☐	1.000		107119.94		P	0.2	
7	☐	1.000		107378.69		P	1.3	
8	☐	1.000		108159.57		P	2.2	
9	☐	1.000		110472.96		P	0.9	
10	☐	1.000		111558.63		P	2.4	



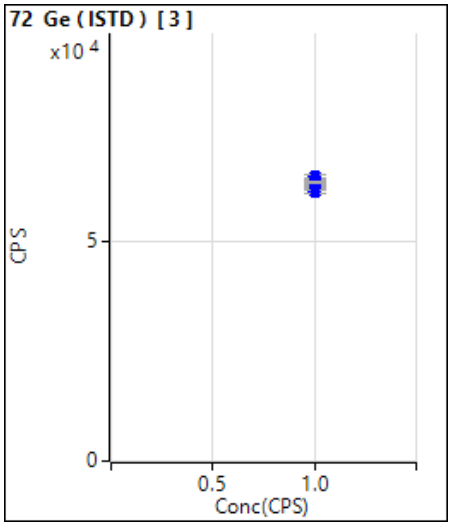
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		95081.26		P	0.2	
2	☐	1.000		92693.62		P	1.1	
3	☐	1.000		96640.25		P	1.0	
4	☐	1.000		96409.66		P	0.4	
5	☐	1.000		97168.78		P	0.6	
6	☐	1.000		97134.45		P	0.8	
7	☐	1.000		97569.17		P	0.8	
8	☐	1.000		98551.04		P	0.2	
9	☐	1.000		101162.20		P	0.8	
10	☐	1.000		100611.31		P	0.5	



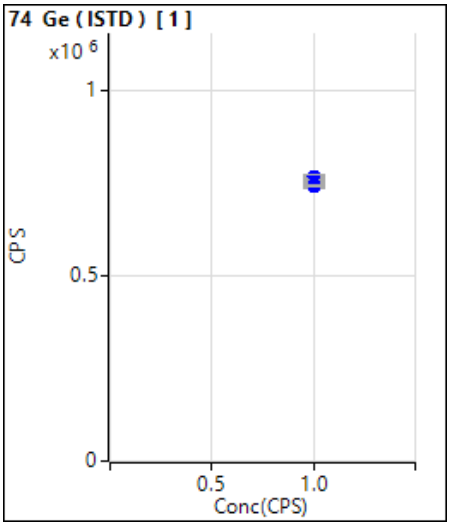
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		538346.23		P	0.3	
2	☐	1.000		538819.75		P	1.0	
3	☐	1.000		537406.26		P	2.2	
4	☐	1.000		547834.55		P	1.8	
5	☐	1.000		539761.93		P	1.6	
6	☐	1.000		541563.69		P	1.2	
7	☐	1.000		535676.29		P	0.9	
8	☐	1.000		545658.39		P	0.9	
9	☐	1.000		552275.67		P	0.7	
10	☐	1.000		540858.86		P	0.3	



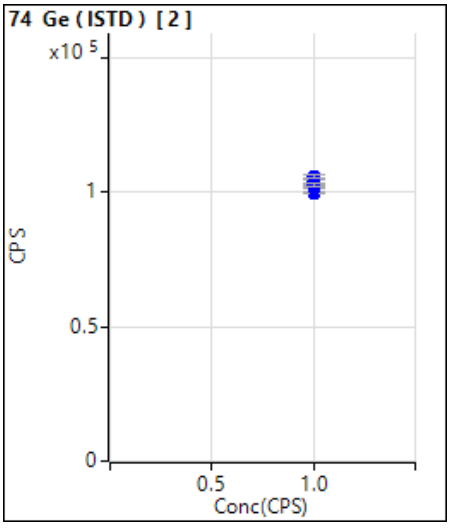
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		68863.31		P	1.2	
2	☐	1.000		66675.58		P	0.8	
3	☐	1.000		67294.67		P	1.9	
4	☐	1.000		68141.33		P	0.9	
5	☐	1.000		68459.17		P	1.6	
6	☐	1.000		69014.91		P	1.4	
7	☐	1.000		68595.41		P	0.7	
8	☐	1.000		69736.97		P	1.0	
9	☐	1.000		68450.54		P	0.9	
10	☐	1.000		68971.63		P	1.0	



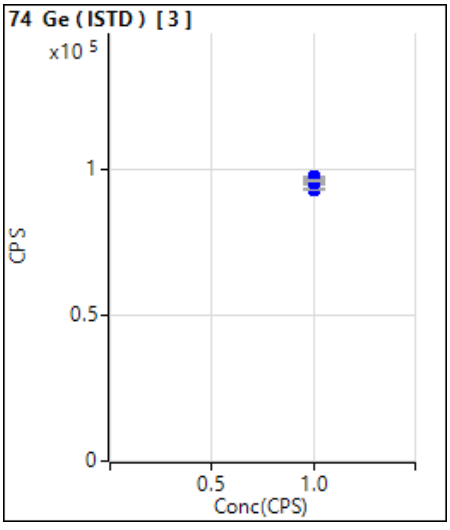
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		63552.03		P	0.9	
2	☐	1.000		61176.43		P	1.2	
3	☐	1.000		61834.39		P	0.7	
4	☐	1.000		62613.87		P	0.5	
5	☐	1.000		63757.09		P	0.4	
6	☐	1.000		62570.35		P	0.3	
7	☐	1.000		63588.68		P	1.0	
8	☐	1.000		64625.03		P	0.7	
9	☐	1.000		63739.42		P	0.6	
10	☐	1.000		63126.01		P	0.5	



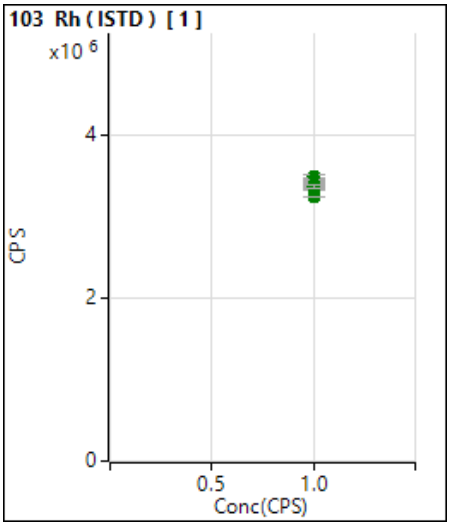
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		739312.21		P	0.2	
2	☐	1.000		742968.48		P	1.3	
3	☐	1.000		738907.31		P	0.9	
4	☐	1.000		757626.79		P	1.2	
5	☐	1.000		752264.96		P	1.3	
6	☐	1.000		759983.24		P	1.6	
7	☐	1.000		747388.74		P	0.2	
8	☐	1.000		767883.79		P	1.3	
9	☐	1.000		754673.53		P	0.7	
10	☐	1.000		742694.78		P	0.1	



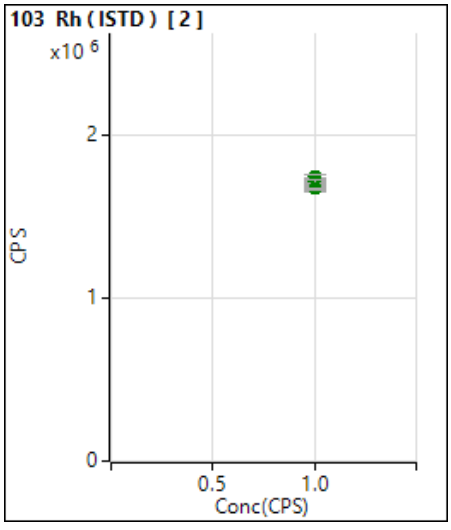
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		104007.73		P	1.5	
2	☐	1.000		99791.59		P	0.3	
3	☐	1.000		101793.69		P	0.7	
4	☐	1.000		102314.96		P	1.0	
5	☐	1.000		102674.95		P	1.1	
6	☐	1.000		103243.99		P	0.6	
7	☐	1.000		104046.66		P	1.6	
8	☐	1.000		105967.03		P	0.7	
9	☐	1.000		103087.59		P	1.0	
10	☐	1.000		102662.50		P	1.4	



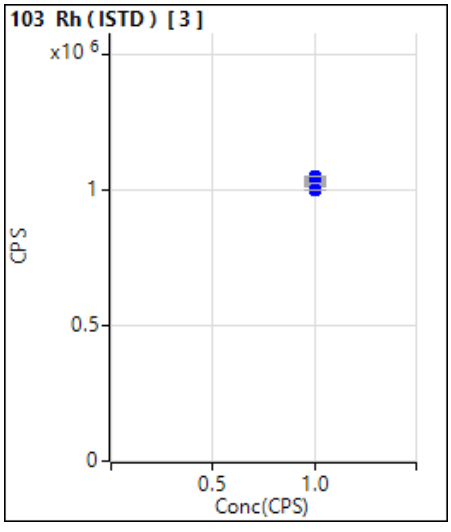
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		96363.52		P	0.4	
2	☐	1.000		92992.07		P	0.5	
3	☐	1.000		94919.45		P	0.5	
4	☐	1.000		95862.69		P	0.9	
5	☐	1.000		96349.85		P	0.6	
6	☐	1.000		96592.66		P	1.1	
7	☐	1.000		96355.48		P	0.2	
8	☐	1.000		97464.23		P	0.2	
9	☐	1.000		96818.27		P	0.6	
10	☐	1.000		96054.97		P	0.7	



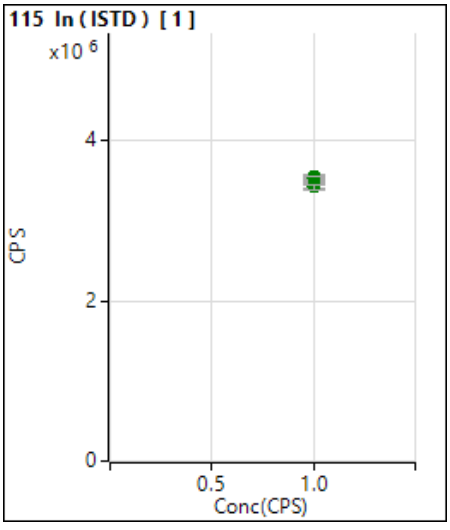
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3498762.86		A	0.8	
2	☐	1.000		3466821.72		A	0.7	
3	☐	1.000		3448544.22		A	0.7	
4	☐	1.000		3439950.78		A	0.8	
5	☐	1.000		3401900.99		A	0.9	
6	☐	1.000		3393760.26		A	0.8	
7	☐	1.000		3331025.16		A	0.6	
8	☐	1.000		3388702.14		A	1.3	
9	☐	1.000		3367123.59		A	1.4	
10	☐	1.000		3254775.89		A	0.1	



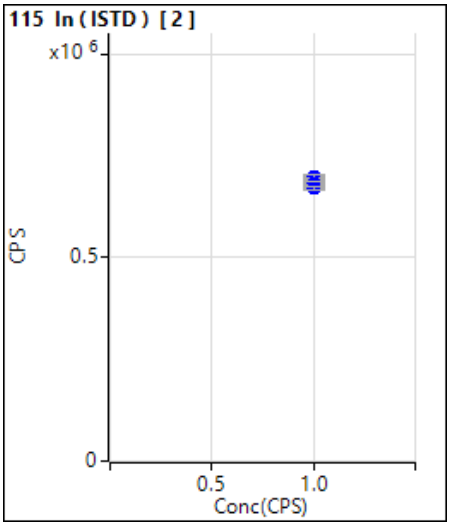
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1751169.38		A	0.6	
2	☐	1.000		1695346.77		A	0.1	
3	☐	1.000		1723613.44		A	0.8	
4	☐	1.000		1717046.25		A	1.2	
5	☐	1.000		1724343.33		A	0.5	
6	☐	1.000		1688423.75		A	0.5	
7	☐	1.000		1718574.10		A	0.7	
8	☐	1.000		1718034.72		A	0.8	
9	☐	1.000		1675753.93		A	1.8	
10	☐	1.000		1674888.54		A	0.8	



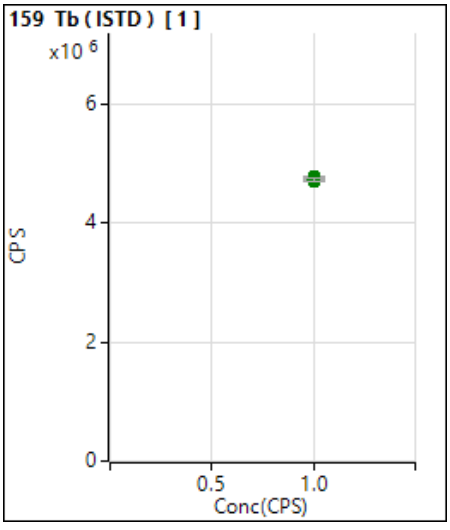
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1034553.09		P	0.4	
2	☐	1.000		1013974.09		P	0.2	
3	☐	1.000		1027258.40		P	0.7	
4	☐	1.000		1031544.79		P	0.5	
5	☐	1.000		1046434.85		P	0.3	
6	☐	1.000		1037288.33		P	0.2	
7	☐	1.000		1044239.85		P	0.7	
8	☐	1.000		1049320.90		P	0.2	
9	☐	1.000		1021969.44		P	0.6	
10	☐	1.000		998248.64		P	0.3	



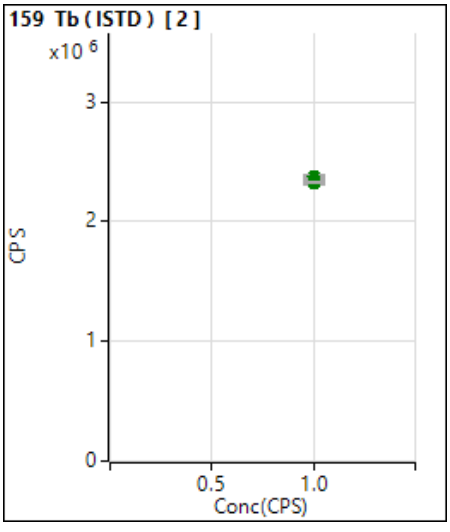
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3539889.25		A	0.6	
2	☐	1.000		3551531.23		A	0.4	
3	☐	1.000		3530560.90		A	1.2	
4	☐	1.000		3552158.73		A	1.2	
5	☐	1.000		3480026.76		A	0.6	
6	☐	1.000		3421570.51		A	1.1	
7	☐	1.000		3467221.18		A	0.6	
8	☐	1.000		3529453.56		A	1.0	
9	☐	1.000		3463806.92		A	0.2	
10	☐	1.000		3418646.22		A	1.6	



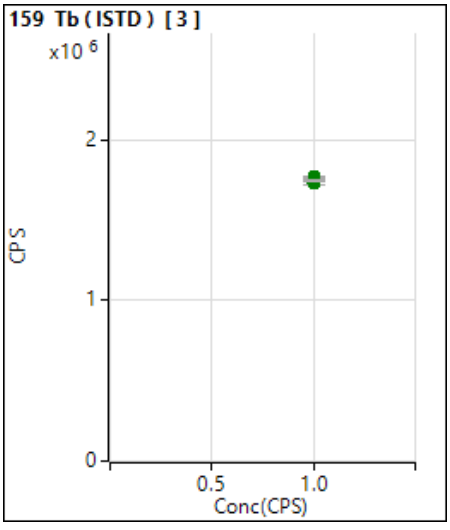
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		691511.89		P	0.6	
2	☐	1.000		669820.48		P	0.4	
3	☐	1.000		682333.53		P	0.4	
4	☐	1.000		684088.26		P	1.2	
5	☐	1.000		689065.61		P	1.2	
6	☐	1.000		685632.66		P	0.5	
7	☐	1.000		696872.62		P	0.9	
8	☐	1.000		699654.75		P	0.7	
9	☐	1.000		682799.36		P	0.8	
10	☐	1.000		671441.91		P	1.4	



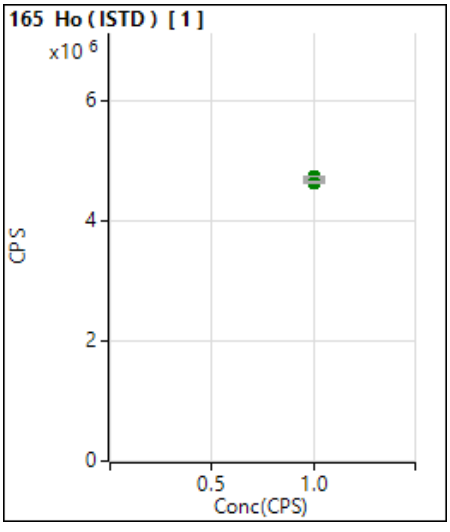
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4764259.72		A	1.1	
2	☐	1.000		4779545.24		A	0.3	
3	☐	1.000		4753548.78		A	0.5	
4	☐	1.000		4753919.93		A	0.8	
5	☐	1.000		4716262.22		A	1.2	
6	☐	1.000		4720172.22		A	1.3	
7	☐	1.000		4697282.43		A	0.4	
8	☐	1.000		4747706.07		A	0.8	
9	☐	1.000		4762514.41		A	0.1	
10	☐	1.000		4723907.12		A	1.4	



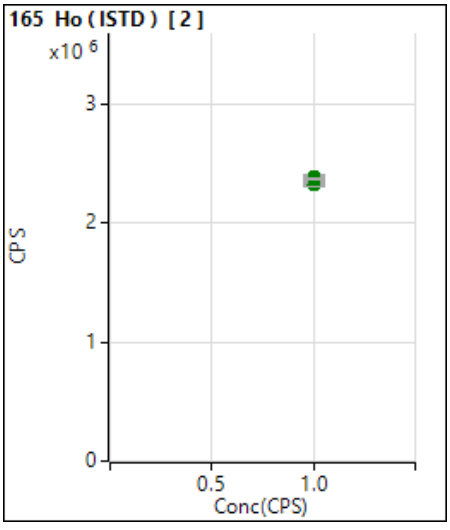
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2351169.07		A	0.2	
2	☐	1.000		2332393.24		A	0.3	
3	☐	1.000		2340547.76		A	0.6	
4	☐	1.000		2344820.74		A	0.9	
5	☐	1.000		2329335.26		A	0.2	
6	☐	1.000		2323044.07		A	1.1	
7	☐	1.000		2374287.13		A	0.9	
8	☐	1.000		2378800.60		A	0.6	
9	☐	1.000		2355319.63		A	0.4	
10	☐	1.000		2334908.86		A	0.6	



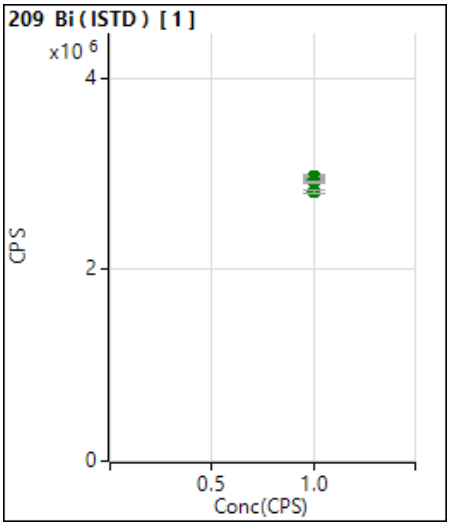
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1756568.82		A	0.7	
2	☐	1.000		1737021.22		A	0.4	
3	☐	1.000		1754536.53		A	0.4	
4	☐	1.000		1727966.70		A	0.7	
5	☐	1.000		1757352.08		A	0.1	
6	☐	1.000		1731015.70		A	1.0	
7	☐	1.000		1764443.06		A	0.9	
8	☐	1.000		1771203.96		A	0.4	
9	☐	1.000		1750268.09		A	1.0	
10	☐	1.000		1744053.23		A	0.4	



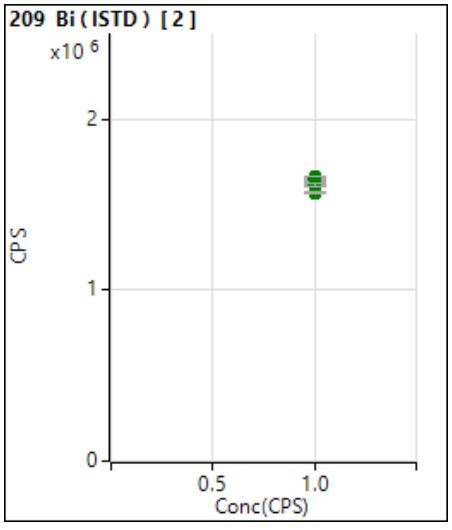
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4671608.47		A	1.8	
2	☐	1.000		4734763.26		A	0.6	
3	☐	1.000		4696513.68		A	1.1	
4	☐	1.000		4706568.68		A	1.0	
5	☐	1.000		4697885.76		A	0.2	
6	☐	1.000		4660470.76		A	1.3	
7	☐	1.000		4655488.16		A	1.3	
8	☐	1.000		4712316.80		A	0.7	
9	☐	1.000		4715125.56		A	0.8	
10	☐	1.000		4631331.91		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2375899.63		A	0.4	
2	☐	1.000		2327175.95		A	0.5	
3	☐	1.000		2358281.16		A	0.9	
4	☐	1.000		2357409.98		A	0.9	
5	☐	1.000		2362356.02		A	1.0	
6	☐	1.000		2323430.81		A	1.3	
7	☐	1.000		2365657.48		A	0.0	
8	☐	1.000		2388783.73		A	0.9	
9	☐	1.000		2380226.92		A	0.4	
10	☐	1.000		2366206.99		A	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2963805.48		A	1.0	
2	☐	1.000		2971057.25		A	0.5	
3	☐	1.000		2977052.35		A	1.3	
4	☐	1.000		2973874.85		A	1.2	
5	☐	1.000		2968035.68		A	1.1	
6	☐	1.000		2949490.17		A	1.3	
7	☐	1.000		2965794.54		A	0.5	
8	☐	1.000		2962889.02		A	0.7	
9	☐	1.000		2916509.12		A	0.4	
10	☐	1.000		2815028.81		A	1.0	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1630932.44		A	0.7	
2	☐	1.000		1606974.35		A	0.7	
3	☐	1.000		1647249.21		A	0.5	
4	☐	1.000		1629676.60		A	0.1	
5	☐	1.000		1662915.07		A	0.7	
6	☐	1.000		1643694.24		A	0.8	
7	☐	1.000		1650193.27		A	1.4	
8	☐	1.000		1664733.06		A	0.4	
9	☐	1.000		1611321.98		A	1.4	
10	☐	1.000		1566444.59		A	0.6	

Quantitation Report

File Name	001CALB.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 13:52
Sample Name	STDA 4
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.009	ug/l	69.39	281.34	9.457E-05	Pulse	0.25	3
B			1	0.000	ug/l	6787.23	640.03	2.146E-04	Pulse	0.15	3
Ca			1	-1.530	ug/l	-43.23	9,406.47	3.404E-03	Pulse	0.10	3
Sr			1	-0.001	ug/l	-53.91	433.36	1.204E-04	Pulse	0.10	3
Mo			1	0.044	ug/l	9.43	420.03	1.167E-04	Pulse	0.10	3
Ag			1	0.001	ug/l	41.07	60.00	1.597E-05	Pulse	0.10	3
Sn			1	0.857	ug/l	7.65	13,402.88	3.569E-03	Pulse	0.10	3
Sb			1	0.010	ug/l	103.32	290.01	5.632E-05	Pulse	0.10	3
Ba			1	-0.002	ug/l	-195.61	66.67	1.292E-05	Pulse	0.10	3
Tl			1	0.001	ug/l	22.23	166.68	5.255E-05	Pulse	0.10	3
Pb			1	0.016	ug/l	51.01	2,513.65	7.925E-04	Pulse	0.10	3
Pb			1	0.016	ug/l	96.00	2,143.58	6.759E-04	Pulse	0.10	3
Pb			1	0.007	ug/l	176.07	9,561.58	3.015E-03	Pulse	0.10	3
Na			2	-0.273	ug/l	-58.22	3,239.24	3.076E-02	Pulse	0.30	3
Mg			2	-0.071	ug/l	-39.27	156.67	1.486E-03	Pulse	0.30	3
Al			2	2.279	ug/l	8.96	561.13	5.326E-03	Pulse	0.30	3
K			2	-2.442	ug/l	-29.32	12,610.42	1.197E-01	Pulse	0.30	3
Ca			2	-0.710	ug/l	-105.20	50.00	4.757E-04	Pulse	0.30	3
Ti			2	0.108	ug/l	71.06	20.00	1.902E-04	Pulse	0.30	3
V			2	0.011	ug/l	89.57	513.35	4.868E-03	Pulse	0.30	3
Cr			2	0.394	ug/l	19.42	2,186.28	2.071E-02	Pulse	0.30	3
Mn			2	0.002	ug/l	495.17	123.34	1.169E-03	Pulse	0.30	3
Fe			2	17.397	ug/l	12.30	84,098.11	7.973E-01	Pulse	0.30	3
Co			2	0.000	ug/l	82.70	26.44	2.506E-04	Pulse	0.30	3
Ni			2	-0.011	ug/l	-109.39	790.03	7.496E-03	Pulse	0.30	3
Cu			2	-0.141	ug/l	-6.46	660.02	6.259E-03	Pulse	0.30	3
Zn			2	-0.643	ug/l	-32.38	6,573.62	6.240E-02	Pulse	0.30	3
As			2	-0.003	ug/l	-152.60	12.00	1.136E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.007	ug/l	102.91	15.52	2.403E-05	Pulse	0.30	3
Sn			2	1.724	ug/l	15.56	5,503.26	8.501E-03	Pulse	0.30	3
Se			3	0.037	ug/l	74.80	5.13	5.816E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,977,780.35	0.67	100.0	Analog	0.10	3
1	Sc		2,765,286.21	2.16	100.0	Analog	0.10	3
1	Ge		534,281.85	1.37	100.0	Pulse	0.10	3
1	Ge		739,294.57	1.31	100.0	Pulse	0.10	3
1	Rh		3,598,302.65	1.00	100.0	Analog	0.10	3
1	In		3,753,307.25	1.32	100.0	Analog	0.10	3
1	Tb		5,148,085.34	0.96	100.0	Analog	0.10	3
1	Ho		5,112,938.47	1.59	100.0	Analog	0.10	3
1	Bi		3,171,766.10	0.27	100.0	Analog	0.10	3
2	Sc		105,364.53	1.60	100.0	Pulse	0.30	3
2	Ge		62,913.98	1.23	100.0	Pulse	0.30	3
2	Ge		95,262.38	0.71	100.0	Pulse	0.30	3
2	Rh		1,725,753.47	0.94	100.0	Analog	0.30	3
2	In		647,419.62	0.66	100.0	Pulse	0.30	3
2	Tb		2,432,246.99	0.44	100.0	Analog	0.30	3
2	Ho		2,466,600.32	0.41	100.0	Analog	0.30	3
2	Bi		1,765,360.28	0.77	100.0	Analog	0.30	3
3	Sc		103,483.04	1.07	100.0	Pulse	0.30	3
3	Ge		58,800.97	2.42	100.0	Pulse	0.30	3
3	Ge		88,564.30	1.91	100.0	Pulse	0.30	3
3	Rh		960,629.93	1.67	100.0	Pulse	0.30	3
3	Tb		1,832,806.80	1.58	100.0	Analog	0.30	3

Quantitation Report

File Name	002CALB.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 13:56
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.003	ug/l	69.62	220.01	7.451E-05	Pulse	0.25	3
B			1	0.076	ug/l	8.33	1,066.73	3.613E-04	Pulse	0.15	3
Ca			1	0.013	ug/l	5704.98	10,530.36	3.921E-03	Pulse	0.10	3
Sr			1	0.005	ug/l	16.85	690.05	1.971E-04	Pulse	0.10	3
Mo			1	0.005	ug/l	46.91	80.00	2.283E-05	Pulse	0.10	3
Ag			1	0.001	ug/l	129.88	50.00	1.356E-05	Pulse	0.10	3
Sn			1	0.035	ug/l	34.30	1,766.84	4.786E-04	Pulse	0.10	3
Sb			1	0.002	ug/l	107.88	150.01	2.967E-05	Pulse	0.10	3
Ba			1	0.052	ug/l	42.61	423.36	8.379E-05	Pulse	0.10	3
Tl			1	-0.001	ug/l	-113.78	83.34	2.637E-05	Pulse	0.10	3
Pb			1	0.015	ug/l	63.40	2,476.97	7.869E-04	Pulse	0.10	3
Pb			1	0.013	ug/l	171.67	2,096.91	6.663E-04	Pulse	0.10	3
Pb			1	0.011	ug/l	128.08	9,674.93	3.075E-03	Pulse	0.10	3
Na			2	0.168	ug/l	71.88	3,370.38	3.461E-02	Pulse	0.30	3
Mg			2	0.185	ug/l	40.36	250.00	2.569E-03	Pulse	0.30	3
Al			2	0.357	ug/l	88.53	242.23	2.487E-03	Pulse	0.30	3
K			2	2.465	ug/l	50.01	13,056.34	1.341E-01	Pulse	0.30	3
Ca			2	0.759	ug/l	102.81	68.89	7.076E-04	Pulse	0.30	3
Ti			2	0.049	ug/l	189.50	12.22	1.249E-04	Pulse	0.30	3
V			2	-0.009	ug/l	-171.72	400.01	4.104E-03	Pulse	0.30	3
Cr			2	0.011	ug/l	100.18	203.09	2.088E-03	Pulse	0.30	3
Mn			2	0.003	ug/l	490.01	116.67	1.197E-03	Pulse	0.30	3
Fe			2	0.596	ug/l	37.76	12,384.79	1.271E-01	Pulse	0.30	3
Co			2	0.002	ug/l	73.09	33.30	3.420E-04	Pulse	0.30	3
Ni			2	-0.038	ug/l	-59.97	673.35	6.914E-03	Pulse	0.30	3
Cu			2	-0.127	ug/l	-9.31	688.91	7.071E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.564	ug/l	-50.67	6,148.99	6.312E-02	Pulse	0.30	3
As			2	0.004	ug/l	384.63	14.33	1.476E-04	Pulse	1.00	3
Cd			2	0.012	ug/l	32.82	23.33	3.662E-05	Pulse	0.30	3
Sn			2	0.121	ug/l	29.25	702.26	1.101E-03	Pulse	0.30	3
Se			3	0.012	ug/l	75.15	3.20	3.589E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,952,992.90	0.95	100.0	Analog	0.10	3
1	Sc		2,687,944.54	2.23	100.0	Analog	0.10	3
1	Ge		521,267.99	1.49	100.0	Pulse	0.10	3
1	Ge		716,034.99	1.22	100.0	Pulse	0.10	3
1	Rh		3,500,083.07	0.86	100.0	Analog	0.10	3
1	In		3,691,013.45	0.31	100.0	Analog	0.10	3
1	Tb		5,054,957.74	0.29	100.0	Analog	0.10	3
1	Ho		5,021,727.43	1.11	100.0	Analog	0.10	3
1	Bi		3,147,984.64	1.40	100.0	Analog	0.10	3
2	Sc		97,394.50	0.87	100.0	Pulse	0.30	3
2	Ge		61,679.18	1.58	100.0	Pulse	0.30	3
2	Ge		92,605.50	1.20	100.0	Pulse	0.30	3
2	Rh		1,693,078.02	0.70	100.0	Analog	0.30	3
2	In		637,454.14	0.61	100.0	Pulse	0.30	3
2	Tb		2,367,323.86	1.03	100.0	Analog	0.30	3
2	Ho		2,430,521.78	0.94	100.0	Analog	0.30	3
2	Bi		1,699,993.93	0.11	100.0	Analog	0.30	3
3	Sc		90,699.69	0.30	100.0	Pulse	0.30	3
3	Ge		58,564.53	1.24	100.0	Pulse	0.30	3
3	Ge		89,181.03	0.23	100.0	Pulse	0.30	3
3	Rh		985,556.49	1.08	100.0	Pulse	0.30	3
3	Tb		1,845,287.63	0.32	100.0	Analog	0.30	3

Quantitation Report

File Name	003CALB.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 13:59
Sample Name	STDA
Sample Type	CalBlk
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.000	ug/l	28855.11	190.67	6.654E-05	Pulse	0.25	3
B			1	0.000	ug/l	-4952.52	611.14	2.133E-04	Pulse	0.15	3
Ca			1	-0.476	ug/l	-109.04	9,950.10	3.757E-03	Pulse	0.10	3
Sr			1	0.001	ug/l	309.86	490.02	1.377E-04	Pulse	0.10	3
Mo			1	0.000	ug/l	745.49	43.33	1.221E-05	Pulse	0.10	3
Ag			1	0.000	ug/l	1799.89	36.67	1.001E-05	Pulse	0.10	3
Sn			1	0.000	ug/l	---	1,276.77	3.482E-04	Pulse	0.10	3
Sb			1	0.001	ug/l	416.55	133.34	2.629E-05	Pulse	0.10	3
Ba			1	0.001	ug/l	740.49	90.00	1.786E-05	Pulse	0.10	3
Tl			1	0.000	ug/l	3954.53	113.34	3.608E-05	Pulse	0.10	3
Pb			1	0.008	ug/l	251.26	2,370.29	7.563E-04	Pulse	0.10	3
Pb			1	0.007	ug/l	287.01	2,013.54	6.425E-04	Pulse	0.10	3
Pb			1	0.007	ug/l	93.20	9,428.23	3.007E-03	Pulse	0.10	3
Na			2	0.002	ug/l	5566.47	3,171.45	3.317E-02	Pulse	0.30	3
Mg			2	0.001	ug/l	7049.98	171.11	1.791E-03	Pulse	0.30	3
Al			2	-0.163	ug/l	-73.77	164.45	1.718E-03	Pulse	0.30	3
K			2	1.499	ug/l	54.05	12,550.35	1.312E-01	Pulse	0.30	3
Ca			2	-0.264	ug/l	-351.12	52.22	5.461E-04	Pulse	0.30	3
Ti			2	0.000	ug/l	---	6.67	7.038E-05	Pulse	0.30	3
V			2	0.000	ug/l	---	425.57	4.455E-03	Pulse	0.30	3
Cr			2	-0.001	ug/l	-851.53	146.51	1.531E-03	Pulse	0.30	3
Mn			2	-0.003	ug/l	-305.58	100.00	1.048E-03	Pulse	0.30	3
Fe			2	-0.438	ug/l	-31.34	8,214.36	8.585E-02	Pulse	0.30	3
Co			2	0.000	ug/l	-1199.46	19.98	2.095E-04	Pulse	0.30	3
Ni			2	-0.023	ug/l	-185.79	691.13	7.228E-03	Pulse	0.30	3
Cu			2	-0.145	ug/l	-5.52	575.57	6.016E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.190	ug/l	-56.05	6,366.86	6.658E-02	Pulse	0.30	3
As			2	0.000	ug/l	-7520.63	12.33	1.289E-04	Pulse	1.00	3
Cd			2	0.000	ug/l	7580.77	5.55	8.701E-06	Pulse	0.30	3
Sn			2	0.025	ug/l	139.82	418.90	6.566E-04	Pulse	0.30	3
Se			3	0.000	ug/l	---	2.27	2.544E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,865,774.89	0.71	100.0	Analog	0.10	3
1	Sc		2,648,889.49	1.64	100.0	Analog	0.10	3
1	Ge		519,909.21	0.65	100.0	Pulse	0.10	3
1	Ge		716,492.36	0.77	100.0	Pulse	0.10	3
1	Rh		3,555,740.26	0.68	100.0	Analog	0.10	3
1	In		3,666,412.32	0.70	100.0	Analog	0.10	3
1	Tb		5,064,542.53	1.30	100.0	Analog	0.10	3
1	Ho		5,034,589.82	0.30	100.0	Analog	0.10	3
1	Bi		3,136,110.68	0.95	100.0	Analog	0.10	3
2	Sc		95,645.75	1.48	100.0	Pulse	0.30	3
2	Ge		61,905.89	1.31	100.0	Pulse	0.30	3
2	Ge		93,442.13	0.73	100.0	Pulse	0.30	3
2	Rh		1,692,884.10	1.41	100.0	Analog	0.30	3
2	In		638,031.63	0.12	100.0	Pulse	0.30	3
2	Tb		2,382,802.54	0.39	100.0	Analog	0.30	3
2	Ho		2,428,573.65	1.71	100.0	Analog	0.30	3
2	Bi		1,712,331.70	0.73	100.0	Analog	0.30	3
3	Sc		89,435.10	1.19	100.0	Pulse	0.30	3
3	Ge		58,557.91	0.83	100.0	Pulse	0.30	3
3	Ge		88,898.46	1.04	100.0	Pulse	0.30	3
3	Rh		979,507.11	0.51	100.0	Pulse	0.30	3
3	Tb		1,854,289.37	1.49	100.0	Analog	0.30	3

Quantitation Report

File Name	004CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:03
Sample Name	STDB
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.511	ug/l	3.18	4,584.69	1.577E-03	Pulse	0.25	3
B			1	24.868	ug/l	1.78	141,173.37	4.857E-02	Pulse	0.15	3
Ca			1	254.626	ug/l	0.43	233,336.29	8.931E-02	Pulse	0.10	3
Sr			1	4.843	ug/l	0.31	213,066.56	6.021E-02	Pulse	0.10	3
Mo			1	0.974	ug/l	2.56	8,315.81	2.350E-03	Pulse	0.10	3
Ag			1	0.449	ug/l	4.16	9,743.31	2.628E-03	Pulse	0.10	3
Sn			1	4.569	ug/l	0.99	64,945.36	1.752E-02	Pulse	0.10	3
Sb			1	1.844	ug/l	1.61	31,599.45	6.199E-03	Pulse	0.10	3
Ba			1	0.980	ug/l	1.15	6,551.67	1.285E-03	Pulse	0.10	3
Tl			1	0.501	ug/l	2.07	20,381.30	6.469E-03	Pulse	0.10	3
Pb			1	0.501	ug/l	9.55	9,303.31	2.953E-03	Pulse	0.10	3
Pb			1	0.511	ug/l	7.97	8,062.51	2.559E-03	Pulse	0.10	3
Pb			1	0.494	ug/l	5.46	36,415.45	1.156E-02	Pulse	0.10	3
Na			2	248.594	ug/l	1.04	211,882.13	2.206E+00	Pulse	0.30	3
Mg			2	246.624	ug/l	1.30	100,331.22	1.044E+00	Pulse	0.30	3
Al			2	27.044	ug/l	3.79	4,027.20	4.192E-02	Pulse	0.30	3
K			2	244.563	ug/l	1.51	80,897.44	8.421E-01	Pulse	0.30	3
Ca			2	266.617	ug/l	3.63	4,099.44	4.268E-02	Pulse	0.30	3
Ti			2	0.791	ug/l	17.11	91.11	9.490E-04	Pulse	0.30	3
V			2	1.026	ug/l	2.77	4,139.46	4.309E-02	Pulse	0.30	3
Cr			2	1.010	ug/l	2.24	4,860.86	5.060E-02	Pulse	0.30	3
Mn			2	1.016	ug/l	2.07	2,660.25	2.769E-02	Pulse	0.30	3
Fe			2	25.142	ug/l	0.49	106,266.54	1.106E+00	Pulse	0.30	3
Co			2	0.522	ug/l	1.33	4,048.04	4.214E-02	Pulse	0.30	3
Ni			2	0.997	ug/l	8.08	2,773.61	2.887E-02	Pulse	0.30	3
Cu			2	1.892	ug/l	2.37	11,934.44	1.242E-01	Pulse	0.30	3
Zn			2	5.332	ug/l	3.04	11,289.57	1.175E-01	Pulse	0.30	3
As			2	0.510	ug/l	8.61	256.67	2.671E-03	Pulse	1.00	3
Cd			2	0.472	ug/l	14.16	694.01	1.077E-03	Pulse	0.30	3
Sn			2	4.698	ug/l	2.19	14,316.61	2.224E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.528	ug/l	5.04	43.60	4.889E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,906,982.28	1.19	101.4	Analog	0.10	3
1	Sc		2,612,600.64	0.54	98.6	Analog	0.10	3
1	Ge		523,883.94	0.52	100.8	Pulse	0.10	3
1	Ge		724,157.93	0.56	101.1	Pulse	0.10	3
1	Rh		3,538,658.80	0.38	99.5	Analog	0.10	3
1	In		3,707,128.85	1.13	101.1	Analog	0.10	3
1	Tb		5,097,637.94	0.50	100.7	Analog	0.10	3
1	Ho		5,102,169.61	0.89	101.3	Analog	0.10	3
1	Bi		3,150,569.33	0.38	100.5	Analog	0.10	3
2	Sc		96,064.63	0.63	100.4	Pulse	0.30	3
2	Ge		61,981.57	1.00	100.1	Pulse	0.30	3
2	Ge		93,292.54	0.96	99.8	Pulse	0.30	3
2	Rh		1,679,315.66	0.03	99.2	Analog	0.30	3
2	In		643,763.18	0.90	100.9	Pulse	0.30	3
2	Tb		2,399,582.75	0.37	100.7	Analog	0.30	3
2	Ho		2,436,310.80	0.16	100.3	Analog	0.30	3
2	Bi		1,716,317.09	0.75	100.2	Analog	0.30	3
3	Sc		88,954.59	1.31	99.5	Pulse	0.30	3
3	Ge		58,923.75	1.16	100.6	Pulse	0.30	3
3	Ge		89,170.80	0.16	100.3	Pulse	0.30	3
3	Rh		978,869.41	0.19	99.9	Pulse	0.30	3
3	Tb		1,832,456.73	0.73	98.8	Analog	0.30	3

Quantitation Report

File Name	005CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:07
Sample Name	STDC
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.966	ug/l	0.49	42,658.46	1.474E-02	Pulse	0.25	3
B			1	6.477	ug/l	0.98	37,067.55	1.281E-02	Pulse	0.15	3
Ca			1	15.482	ug/l	9.85	24,358.68	9.109E-03	Pulse	0.10	3
Sr			1	4.822	ug/l	1.13	209,410.32	5.996E-02	Pulse	0.10	3
Mo			1	4.707	ug/l	1.62	39,506.31	1.131E-02	Pulse	0.10	3
Ag			1	4.672	ug/l	1.57	98,810.27	2.726E-02	Pulse	0.10	3
Sn			1	4.633	ug/l	0.83	64,372.49	1.776E-02	Pulse	0.10	3
Sb			1	4.678	ug/l	1.35	78,962.37	1.569E-02	Pulse	0.10	3
Ba			1	4.669	ug/l	1.21	30,507.50	6.062E-03	Pulse	0.10	3
Tl			1	4.790	ug/l	1.41	193,731.04	6.155E-02	Pulse	0.10	3
Pb			1	4.812	ug/l	1.97	69,678.23	2.214E-02	Pulse	0.10	3
Pb			1	4.742	ug/l	1.94	58,677.72	1.864E-02	Pulse	0.10	3
Pb			1	4.806	ug/l	0.67	274,591.46	8.724E-02	Pulse	0.10	3
Na			2	225.063	ug/l	129.93	209,747.73	2.000E+00	Mix	0.30	3
Mg			2	84.544	ug/l	123.98	37,625.98	3.592E-01	Pulse	0.30	3
Al			2	134.934	ug/l	126.20	21,099.00	2.013E-01	Pulse	0.30	3
K			2	62.475	ug/l	118.69	31,936.17	3.096E-01	Pulse	0.30	3
Ca			2	190.320	ug/l	112.23	3,196.60	3.063E-02	Pulse	0.30	3
Ti			2	8.190	ug/l	59.14	942.31	9.167E-03	Pulse	0.30	3
V			2	5.012	ug/l	4.09	19,543.30	1.931E-01	Pulse	0.30	3
Cr			2	5.044	ug/l	4.94	24,953.27	2.465E-01	Pulse	0.30	3
Mn			2	7.596	ug/l	48.51	20,473.72	1.997E-01	Pulse	0.30	3
Fe			2	141.500	ug/l	128.37	602,522.44	5.748E+00	Mix	0.30	3
Co			2	4.971	ug/l	4.82	40,411.59	3.993E-01	Pulse	0.30	3
Ni			2	5.000	ug/l	7.62	11,521.05	1.137E-01	Pulse	0.30	3
Cu			2	5.057	ug/l	7.22	31,181.15	3.079E-01	Pulse	0.30	3
Zn			2	6.755	ug/l	16.48	13,238.10	1.307E-01	Pulse	0.30	3
As			2	5.153	ug/l	8.27	2,617.23	2.583E-02	Pulse	1.00	3
Cd			2	5.049	ug/l	3.82	7,608.41	1.144E-02	Pulse	0.30	3
Sn			2	5.221	ug/l	9.58	16,427.14	2.465E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	4.792	ug/l	0.25	381.93	4.233E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,894,077.55	0.67	101.0	Analog	0.10	3
1	Sc		2,674,789.96	1.25	101.0	Analog	0.10	3
1	Ge		519,580.07	0.56	99.9	Pulse	0.10	3
1	Ge		720,225.98	0.60	100.5	Pulse	0.10	3
1	Rh		3,492,586.51	0.65	98.2	Analog	0.10	3
1	In		3,624,656.55	0.66	98.9	Analog	0.10	3
1	Tb		5,032,083.36	0.55	99.4	Analog	0.10	3
1	Ho		4,976,263.26	0.95	98.8	Analog	0.10	3
1	Bi		3,147,571.41	0.09	100.4	Analog	0.10	3
2	Sc		101,089.24	4.42	105.7	Pulse	0.30	3
2	Ge		64,516.04	5.80	104.2	Pulse	0.30	3
2	Ge		97,716.12	4.78	104.6	Pulse	0.30	3
2	Rh		1,769,448.92	5.82	104.5	Analog	0.30	3
2	In		664,121.79	5.38	104.1	Pulse	0.30	3
2	Tb		2,468,615.60	5.32	103.6	Analog	0.30	3
2	Ho		2,540,752.75	6.10	104.6	Analog	0.30	3
2	Bi		1,793,747.25	6.00	104.8	Analog	0.30	3
3	Sc		91,784.56	0.28	102.6	Pulse	0.30	3
3	Ge		59,867.19	0.15	102.2	Pulse	0.30	3
3	Ge		90,228.06	1.24	101.5	Pulse	0.30	3
3	Rh		991,078.95	0.60	101.2	Pulse	0.30	3
3	Tb		1,864,609.51	0.79	100.6	Analog	0.30	3

Quantitation Report

File Name	006CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:10
Sample Name	STDD
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	25.055	ug/l	0.41	216,321.68	7.410E-02	Pulse	0.25	3
B			1	25.044	ug/l	1.42	142,794.32	4.891E-02	Pulse	0.15	3
Ca			1	33.832	ug/l	2.76	40,850.87	1.526E-02	Pulse	0.10	3
Sr			1	24.903	ug/l	1.66	1,076,961.68	3.091E-01	Pulse	0.10	3
Mo			1	24.541	ug/l	0.52	205,320.60	5.893E-02	Pulse	0.10	3
Ag			1	25.469	ug/l	0.92	541,461.35	1.486E-01	Pulse	0.10	3
Sn			1	24.131	ug/l	1.29	331,768.51	9.103E-02	Pulse	0.10	3
Sb			1	24.916	ug/l	1.02	417,105.41	8.349E-02	Pulse	0.10	3
Ba			1	24.608	ug/l	1.66	159,292.12	3.188E-02	Pulse	0.10	3
Tl			1	25.017	ug/l	0.41	1,018,553.55	3.213E-01	Pulse	0.10	3
Pb			1	24.948	ug/l	0.82	354,255.41	1.118E-01	Pulse	0.10	3
Pb			1	24.721	ug/l	0.32	299,868.37	9.460E-02	Pulse	0.10	3
Pb			1	25.000	ug/l	0.01	1,400,265.59	4.417E-01	Pulse	0.10	3
Na			2	26.725	ug/l	1.85	26,195.94	2.667E-01	Pulse	0.30	3
Mg			2	25.367	ug/l	2.40	10,706.86	1.090E-01	Pulse	0.30	3
Al			2	24.621	ug/l	2.37	3,766.02	3.834E-02	Pulse	0.30	3
K			2	26.314	ug/l	2.12	20,018.75	2.038E-01	Pulse	0.30	3
Ca			2	120.076	ug/l	7.33	1,919.02	1.954E-02	Pulse	0.30	3
Ti			2	25.836	ug/l	1.17	2,825.83	2.877E-02	Pulse	0.30	3
V			2	25.017	ug/l	0.90	92,919.12	9.461E-01	Pulse	0.30	3
Cr			2	24.993	ug/l	1.63	119,358.26	1.215E+00	Pulse	0.30	3
Mn			2	24.818	ug/l	1.11	63,833.67	6.499E-01	Pulse	0.30	3
Fe			2	26.041	ug/l	1.04	112,170.64	1.142E+00	Pulse	0.30	3
Co			2	24.791	ug/l	1.58	195,471.49	1.990E+00	Pulse	0.30	3
Ni			2	24.731	ug/l	1.05	52,259.35	5.321E-01	Pulse	0.30	3
Cu			2	24.798	ug/l	1.54	142,749.50	1.453E+00	Pulse	0.30	3
Zn			2	24.828	ug/l	2.77	29,207.21	2.974E-01	Pulse	0.30	3
As			2	25.002	ug/l	0.93	12,260.61	1.248E-01	Pulse	1.00	3
Cd			2	24.951	ug/l	0.94	36,355.74	5.650E-02	Pulse	0.30	3
Sn			2	24.745	ug/l	1.10	73,885.19	1.148E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	25.431	ug/l	0.74	1,998.92	2.235E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,919,205.28	0.62	101.9	Analog	0.10	3
1	Sc		2,676,395.38	2.17	101.0	Analog	0.10	3
1	Ge		525,546.41	1.57	101.1	Pulse	0.10	3
1	Ge		722,660.51	1.24	100.9	Pulse	0.10	3
1	Rh		3,483,828.59	0.78	98.0	Analog	0.10	3
1	In		3,644,523.08	1.89	99.4	Analog	0.10	3
1	Tb		4,995,697.84	0.84	98.6	Analog	0.10	3
1	Ho		4,978,245.65	1.18	98.9	Analog	0.10	3
1	Bi		3,169,973.81	1.49	101.1	Analog	0.10	3
2	Sc		98,225.89	1.39	102.7	Pulse	0.30	3
2	Ge		61,865.54	0.99	99.9	Pulse	0.30	3
2	Ge		94,343.19	0.84	101.0	Pulse	0.30	3
2	Rh		1,682,333.58	0.97	99.4	Analog	0.30	3
2	In		643,507.97	0.58	100.9	Pulse	0.30	3
2	Tb		2,365,006.57	0.72	99.3	Analog	0.30	3
2	Ho		2,429,566.99	0.23	100.0	Analog	0.30	3
2	Bi		1,718,553.09	1.09	100.4	Analog	0.30	3
3	Sc		92,212.29	0.32	103.1	Pulse	0.30	3
3	Ge		58,526.82	1.71	99.9	Pulse	0.30	3
3	Ge		89,420.16	0.83	100.6	Pulse	0.30	3
3	Rh		987,644.23	0.50	100.8	Pulse	0.30	3
3	Tb		1,834,928.68	0.33	99.0	Analog	0.30	3

Quantitation Report

File Name	007CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:14
Sample Name	STDE
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	50.273	ug/l	1.16	430,958.24	1.486E-01	Pulse	0.25	3
B			1	50.145	ug/l	1.71	283,379.01	9.772E-02	Pulse	0.15	3
Ca			1	71.165	ug/l	0.71	73,027.97	2.778E-02	Pulse	0.10	3
Sr			1	50.679	ug/l	0.95	2,181,675.28	6.289E-01	Analog	0.10	3
Mo			1	50.493	ug/l	1.21	420,594.37	1.212E-01	Pulse	0.10	3
Ag			1	50.187	ug/l	1.30	1,052,269.57	2.928E-01	Pulse	0.10	3
Sn			1	49.597	ug/l	1.38	671,099.55	1.867E-01	Pulse	0.10	3
Sb			1	50.046	ug/l	0.20	838,351.08	1.677E-01	Pulse	0.10	3
Ba			1	49.986	ug/l	0.14	323,734.45	6.475E-02	Pulse	0.10	3
Tl			1	50.725	ug/l	1.24	2,073,588.25	6.514E-01	Analog	0.10	3
Pb			1	49.950	ug/l	0.79	709,902.05	2.230E-01	Pulse	0.10	3
Pb			1	50.187	ug/l	1.56	609,272.48	1.914E-01	Pulse	0.10	3
Pb			1	50.811	ug/l	1.27	2,848,213.67	8.948E-01	Analog	0.10	3
Na			2	54.881	ug/l	1.34	49,786.37	5.128E-01	Pulse	0.30	3
Mg			2	52.497	ug/l	2.48	21,719.66	2.237E-01	Pulse	0.30	3
Al			2	54.193	ug/l	2.52	7,967.52	8.203E-02	Pulse	0.30	3
K			2	52.289	ug/l	3.35	27,163.27	2.798E-01	Pulse	0.30	3
Ca			2	242.764	ug/l	6.87	3,777.15	3.891E-02	Pulse	0.30	3
Ti			2	51.370	ug/l	3.43	5,545.43	5.713E-02	Pulse	0.30	3
V			2	50.769	ug/l	2.21	185,953.59	1.915E+00	Pulse	0.30	3
Cr			2	50.247	ug/l	1.54	237,073.01	2.442E+00	Pulse	0.30	3
Mn			2	50.497	ug/l	1.23	128,284.63	1.321E+00	Pulse	0.30	3
Fe			2	54.131	ug/l	2.11	219,665.73	2.263E+00	Pulse	0.30	3
Co			2	50.753	ug/l	1.84	395,582.73	4.074E+00	Pulse	0.30	3
Ni			2	50.456	ug/l	1.36	104,622.72	1.078E+00	Pulse	0.30	3
Cu			2	50.696	ug/l	2.03	287,011.44	2.956E+00	Pulse	0.30	3
Zn			2	50.651	ug/l	1.99	52,008.93	5.357E-01	Pulse	0.30	3
As			2	51.046	ug/l	2.48	24,730.67	2.547E-01	Pulse	1.00	3
Cd			2	50.007	ug/l	0.15	73,512.49	1.132E-01	Pulse	0.30	3
Sn			2	50.906	ug/l	1.50	152,987.16	2.356E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	50.551	ug/l	1.22	4,031.70	4.441E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,899,923.65	0.66	101.2	Analog	0.10	3
1	Sc		2,628,476.47	0.56	99.2	Analog	0.10	3
1	Ge		522,181.26	0.47	100.4	Pulse	0.10	3
1	Ge		723,344.03	0.78	101.0	Pulse	0.10	3
1	Rh		3,469,075.68	1.09	97.6	Analog	0.10	3
1	In		3,594,045.30	0.75	98.0	Analog	0.10	3
1	Tb		4,999,943.89	1.04	98.7	Analog	0.10	3
1	Ho		4,980,797.53	0.63	98.9	Analog	0.10	3
1	Bi		3,183,095.89	0.16	101.5	Analog	0.10	3
2	Sc		97,106.20	1.41	101.5	Pulse	0.30	3
2	Ge		62,934.11	1.82	101.7	Pulse	0.30	3
2	Ge		94,608.96	0.57	101.2	Pulse	0.30	3
2	Rh		1,679,499.45	0.81	99.2	Analog	0.30	3
2	In		649,253.91	0.48	101.8	Pulse	0.30	3
2	Tb		2,412,936.08	0.66	101.3	Analog	0.30	3
2	Ho		2,440,280.11	0.16	100.5	Analog	0.30	3
2	Bi		1,708,547.50	0.60	99.8	Analog	0.30	3
3	Sc		91,522.86	1.05	102.3	Pulse	0.30	3
3	Ge		58,783.38	1.44	100.4	Pulse	0.30	3
3	Ge		90,790.95	0.80	102.1	Pulse	0.30	3
3	Rh		995,857.43	1.40	101.7	Pulse	0.30	3
3	Tb		1,845,772.63	1.41	99.5	Analog	0.30	3

Quantitation Report

File Name	008CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:18
Sample Name	STDF
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	100.947	ug/l	0.97	843,284.69	2.984E-01	Pulse	0.25	3
B			1	100.846	ug/l	1.20	554,879.63	1.963E-01	Pulse	0.15	3
Ca			1	136.899	ug/l	2.01	127,127.11	4.983E-02	Pulse	0.10	3
Sr			1	99.774	ug/l	1.42	4,189,051.19	1.238E+00	Analog	0.10	3
Mo			1	100.318	ug/l	0.68	815,089.54	2.409E-01	Pulse	0.10	3
Ag			1	102.007	ug/l	1.16	2,093,647.57	5.951E-01	Analog	0.10	3
Sn			1	100.440	ug/l	1.43	1,329,092.74	3.778E-01	Analog	0.10	3
Sb			1	100.554	ug/l	0.74	1,623,487.37	3.369E-01	Analog	0.10	3
Ba			1	100.792	ug/l	0.60	629,128.17	1.305E-01	Pulse	0.10	3
Tl			1	100.672	ug/l	0.84	4,005,315.77	1.293E+00	Analog	0.10	3
Pb			1	102.585	ug/l	1.28	1,416,649.87	4.573E-01	Analog	0.10	3
Pb			1	100.352	ug/l	0.22	1,183,834.44	3.821E-01	Pulse	0.10	3
Pb			1	101.288	ug/l	0.93	5,517,144.37	1.781E+00	Analog	0.10	3
Na			2	104.882	ug/l	1.41	91,530.91	9.497E-01	Pulse	0.30	3
Mg			2	104.511	ug/l	0.24	42,757.36	4.436E-01	Pulse	0.30	3
Al			2	102.286	ug/l	1.33	14,754.37	1.531E-01	Pulse	0.30	3
K			2	101.281	ug/l	2.99	40,770.72	4.231E-01	Pulse	0.30	3
Ca			2	460.516	ug/l	2.60	7,063.81	7.329E-02	Pulse	0.30	3
Ti			2	98.948	ug/l	0.71	10,599.05	1.100E-01	Pulse	0.30	3
V			2	99.610	ug/l	1.24	361,771.24	3.754E+00	Pulse	0.30	3
Cr			2	99.025	ug/l	1.54	463,608.50	4.810E+00	Pulse	0.30	3
Mn			2	98.394	ug/l	1.98	248,007.85	2.573E+00	Pulse	0.30	3
Fe			2	104.978	ug/l	1.21	413,541.54	4.291E+00	Pulse	0.30	3
Co			2	99.480	ug/l	1.80	769,641.89	7.986E+00	Pulse	0.30	3
Ni			2	99.839	ug/l	1.16	204,764.82	2.125E+00	Pulse	0.30	3
Cu			2	99.702	ug/l	1.16	558,970.52	5.800E+00	Pulse	0.30	3
Zn			2	99.405	ug/l	1.81	94,979.50	9.855E-01	Pulse	0.30	3
As			2	99.650	ug/l	0.94	47,916.57	4.972E-01	Pulse	1.00	3
Cd			2	98.956	ug/l	1.48	143,341.45	2.240E-01	Pulse	0.30	3
Sn			2	99.626	ug/l	2.10	294,690.64	4.606E-01	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	99.519	ug/l	0.77	7,881.83	8.740E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,826,612.36	0.99	98.6	Analog	0.10	3
1	Sc		2,551,531.06	1.40	96.3	Analog	0.10	3
1	Ge		507,829.54	0.91	97.7	Pulse	0.10	3
1	Ge		704,271.66	1.27	98.3	Pulse	0.10	3
1	Rh		3,383,857.97	0.72	95.2	Analog	0.10	3
1	In		3,518,158.77	0.67	96.0	Analog	0.10	3
1	Tb		4,819,518.16	1.04	95.2	Analog	0.10	3
1	Ho		4,830,022.22	1.54	95.9	Analog	0.10	3
1	Bi		3,098,153.39	1.14	98.8	Analog	0.10	3
2	Sc		96,385.65	1.01	100.8	Pulse	0.30	3
2	Ge		62,193.53	0.67	100.5	Pulse	0.30	3
2	Ge		93,814.72	2.09	100.4	Pulse	0.30	3
2	Rh		1,648,671.77	0.59	97.4	Analog	0.30	3
2	In		639,894.28	1.81	100.3	Pulse	0.30	3
2	Tb		2,350,274.77	0.84	98.6	Analog	0.30	3
2	Ho		2,415,133.03	1.12	99.4	Analog	0.30	3
2	Bi		1,690,709.93	1.18	98.7	Analog	0.30	3
3	Sc		91,199.02	0.21	102.0	Pulse	0.30	3
3	Ge		58,796.68	1.50	100.4	Pulse	0.30	3
3	Ge		90,178.78	0.76	101.4	Pulse	0.30	3
3	Rh		999,794.48	1.27	102.1	Pulse	0.30	3
3	Tb		1,849,027.15	1.18	99.7	Analog	0.30	3

Quantitation Report

File Name	009CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:21
Sample Name	STDG
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.065	ug/l	26.28	734.70	2.582E-04	Pulse	0.25	3
B			1	199.154	ug/l	1.54	1,101,981.66	3.875E-01	Analog	0.15	3
Ca			1	509.742	ug/l	0.96	451,031.57	1.749E-01	Pulse	0.10	3
Sr			1	0.017	ug/l	27.53	1,163.42	3.382E-04	Pulse	0.10	3
Mo			1	0.058	ug/l	6.79	513.37	1.491E-04	Pulse	0.10	3
Ag			1	0.011	ug/l	13.40	256.68	7.186E-05	Pulse	0.10	3
Sn			1	1.205	ug/l	15.70	17,400.32	4.875E-03	Pulse	0.10	3
Sb			1	0.330	ug/l	11.23	5,611.22	1.129E-03	Pulse	0.10	3
Ba			1	0.015	ug/l	36.27	176.68	3.552E-05	Pulse	0.10	3
Tl			1	0.033	ug/l	16.33	1,436.80	4.616E-04	Pulse	0.10	3
Pb			1	0.032	ug/l	25.37	2,690.36	8.638E-04	Pulse	0.10	3
Pb			1	0.041	ug/l	12.22	2,406.96	7.729E-04	Pulse	0.10	3
Pb			1	0.035	ug/l	16.25	10,888.70	3.496E-03	Pulse	0.10	3
Na			2	502.453	ug/l	0.98	430,009.11	4.424E+00	Pulse	0.30	3
Mg			2	502.425	ug/l	1.02	206,616.99	2.126E+00	Pulse	0.30	3
Al			2	493.057	ug/l	1.82	70,993.99	7.305E-01	Pulse	0.30	3
K			2	493.620	ug/l	1.58	152,641.58	1.570E+00	Pulse	0.30	3
Ca			2	494.428	ug/l	2.08	7,645.18	7.864E-02	Pulse	0.30	3
Ti			2	0.533	ug/l	17.64	64.45	6.624E-04	Pulse	0.30	3
V			2	-0.015	ug/l	-90.26	377.79	3.889E-03	Pulse	0.30	3
Cr			2	0.039	ug/l	26.23	336.19	3.460E-03	Pulse	0.30	3
Mn			2	0.058	ug/l	20.28	255.56	2.631E-03	Pulse	0.30	3
Fe			2	519.500	ug/l	1.60	2,024,121.65	2.083E+01	Analog	0.30	3
Co			2	0.022	ug/l	32.46	188.99	1.947E-03	Pulse	0.30	3
Ni			2	0.043	ug/l	67.98	838.92	8.626E-03	Pulse	0.30	3
Cu			2	-0.032	ug/l	-20.75	1,222.28	1.257E-02	Pulse	0.30	3
Zn			2	0.920	ug/l	6.83	7,467.34	7.682E-02	Pulse	0.30	3
As			2	0.044	ug/l	46.02	34.00	3.505E-04	Pulse	1.00	3
Cd			2	0.032	ug/l	52.84	52.19	8.112E-05	Pulse	0.30	3
Sn			2	2.716	ug/l	10.74	8,420.14	1.308E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	198.113	ug/l	1.23	15,809.28	1.740E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,844,167.10	1.22	99.2	Analog	0.10	3
1	Sc		2,579,295.74	0.79	97.4	Analog	0.10	3
1	Ge		514,281.95	0.17	98.9	Pulse	0.10	3
1	Ge		719,400.75	0.50	100.4	Pulse	0.10	3
1	Rh		3,442,569.53	0.74	96.8	Analog	0.10	3
1	In		3,570,828.03	0.54	97.4	Analog	0.10	3
1	Tb		4,973,527.53	0.73	98.2	Analog	0.10	3
1	Ho		5,002,018.15	1.05	99.4	Analog	0.10	3
1	Bi		3,114,408.29	0.69	99.3	Analog	0.10	3
2	Sc		97,202.72	1.15	101.6	Pulse	0.30	3
2	Ge		62,354.17	0.74	100.7	Pulse	0.30	3
2	Ge		93,746.36	0.37	100.3	Pulse	0.30	3
2	Rh		1,652,207.47	0.79	97.6	Analog	0.30	3
2	In		643,527.98	0.42	100.9	Pulse	0.30	3
2	Tb		2,377,946.01	0.88	99.8	Analog	0.30	3
2	Ho		2,432,234.56	0.70	100.2	Analog	0.30	3
2	Bi		1,718,688.58	1.93	100.4	Analog	0.30	3
3	Sc		91,182.47	0.54	102.0	Pulse	0.30	3
3	Ge		59,161.29	0.40	101.0	Pulse	0.30	3
3	Ge		90,882.65	1.04	102.2	Pulse	0.30	3
3	Rh		992,481.42	0.20	101.3	Pulse	0.30	3
3	Tb		1,852,183.54	1.03	99.9	Analog	0.30	3

Quantitation Report

File Name	010CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:25
Sample Name	STDH
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.013	ug/l	68.03	302.68	1.053E-04	Pulse	0.25	3
B			1	4.781	ug/l	3.85	27,322.49	9.511E-03	Pulse	0.15	3
Ca			1	1004.902	ug/l	1.34	897,253.76	3.409E-01	Pulse	0.10	3
Sr			1	0.013	ug/l	11.91	996.75	2.879E-04	Pulse	0.10	3
Mo			1	0.022	ug/l	24.49	220.01	6.358E-05	Pulse	0.10	3
Ag			1	0.004	ug/l	50.86	126.67	3.520E-05	Pulse	0.10	3
Sn			1	0.291	ug/l	21.75	5,174.38	1.440E-03	Pulse	0.10	3
Sb			1	0.087	ug/l	9.00	1,590.14	3.150E-04	Pulse	0.10	3
Ba			1	0.028	ug/l	27.97	266.68	5.285E-05	Pulse	0.10	3
Tl			1	0.007	ug/l	25.33	386.69	1.234E-04	Pulse	0.10	3
Pb			1	0.035	ug/l	8.48	2,753.69	8.791E-04	Pulse	0.10	3
Pb			1	0.024	ug/l	45.10	2,213.59	7.067E-04	Pulse	0.10	3
Pb			1	0.023	ug/l	7.52	10,285.10	3.284E-03	Pulse	0.10	3
Na			2	998.887	ug/l	0.58	868,268.89	8.762E+00	Pulse	0.30	3
Mg			2	992.922	ug/l	1.02	416,110.53	4.199E+00	Pulse	0.30	3
Al			2	979.270	ug/l	0.77	143,571.37	1.449E+00	Pulse	0.30	3
K			2	981.295	ug/l	0.33	296,952.30	2.997E+00	Pulse	0.30	3
Ca			2	1003.932	ug/l	0.44	15,763.16	1.591E-01	Pulse	0.30	3
Ti			2	0.007	ug/l	633.26	7.78	7.853E-05	Pulse	0.30	3
V			2	-0.007	ug/l	-173.31	414.45	4.184E-03	Pulse	0.30	3
Cr			2	0.010	ug/l	109.17	201.83	2.037E-03	Pulse	0.30	3
Mn			2	0.062	ug/l	23.59	271.12	2.737E-03	Pulse	0.30	3
Fe			2	1028.462	ug/l	1.07	4,075,274.84	4.113E+01	Analog	0.30	3
Co			2	0.020	ug/l	55.32	181.22	1.830E-03	Pulse	0.30	3
Ni			2	0.018	ug/l	296.16	803.37	8.108E-03	Pulse	0.30	3
Cu			2	-0.095	ug/l	-13.91	881.15	8.892E-03	Pulse	0.30	3
Zn			2	-0.278	ug/l	-8.14	6,516.93	6.577E-02	Pulse	0.30	3
As			2	0.023	ug/l	8.25	24.00	2.422E-04	Pulse	1.00	3
Cd			2	0.016	ug/l	72.24	28.88	4.481E-05	Pulse	0.30	3
Sn			2	0.675	ug/l	10.84	2,360.20	3.656E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	400.970	ug/l	0.48	32,162.94	3.521E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,872,120.17	0.68	100.2	Analog	0.10	3
1	Sc		2,631,800.43	0.42	99.4	Analog	0.10	3
1	Ge		519,149.93	0.87	99.9	Pulse	0.10	3
1	Ge		726,640.74	0.25	101.4	Pulse	0.10	3
1	Rh		3,462,705.47	0.48	97.4	Analog	0.10	3
1	In		3,591,755.37	0.98	98.0	Analog	0.10	3
1	Tb		5,047,160.86	0.47	99.7	Analog	0.10	3
1	Ho		5,010,355.03	0.83	99.5	Analog	0.10	3
1	Bi		3,132,206.31	0.90	99.9	Analog	0.10	3
2	Sc		99,091.28	0.42	103.6	Pulse	0.30	3
2	Ge		62,834.80	0.24	101.5	Pulse	0.30	3
2	Ge		95,070.65	0.54	101.7	Pulse	0.30	3
2	Rh		1,672,180.46	0.69	98.8	Analog	0.30	3
2	In		645,413.53	0.44	101.2	Pulse	0.30	3
2	Tb		2,397,231.22	0.35	100.6	Analog	0.30	3
2	Ho		2,441,984.28	0.55	100.6	Analog	0.30	3
2	Bi		1,713,275.07	1.74	100.1	Analog	0.30	3
3	Sc		91,915.25	1.30	102.8	Pulse	0.30	3
3	Ge		59,965.25	1.18	102.4	Pulse	0.30	3
3	Ge		91,354.41	0.65	102.8	Pulse	0.30	3
3	Rh		992,112.95	1.00	101.3	Pulse	0.30	3
3	Tb		1,867,437.84	1.49	100.7	Analog	0.30	3

Quantitation Report

File Name	011CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:28
Sample Name	STDI
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.008	ug/l	55.12	252.01	8.944E-05	Pulse	0.25	3
B			1	2.146	ug/l	4.57	12,362.59	4.387E-03	Pulse	0.15	3
Ca			1	5035.414	ug/l	0.39	4,496,640.98	1.693E+00	Analog	0.10	3
Sr			1	0.034	ug/l	7.66	1,823.51	5.466E-04	Pulse	0.10	3
Mo			1	0.016	ug/l	12.73	163.34	4.899E-05	Pulse	0.10	3
Ag			1	0.002	ug/l	103.56	83.34	2.341E-05	Pulse	0.10	3
Sn			1	0.127	ug/l	12.95	2,923.72	8.257E-04	Pulse	0.10	3
Sb			1	0.061	ug/l	14.67	1,146.76	2.283E-04	Pulse	0.10	3
Ba			1	0.045	ug/l	26.73	373.35	7.430E-05	Pulse	0.10	3
Tl			1	0.005	ug/l	20.45	316.68	1.035E-04	Pulse	0.10	3
Pb			1	0.029	ug/l	33.16	2,606.99	8.516E-04	Pulse	0.10	3
Pb			1	0.036	ug/l	23.84	2,310.26	7.548E-04	Pulse	0.10	3
Pb			1	0.032	ug/l	1.22	10,548.52	3.445E-03	Pulse	0.10	3
Na			2	5167.335	ug/l	1.63	4,441,535.24	4.519E+01	Analog	0.30	3
Mg			2	5319.565	ug/l	1.70	2,210,380.96	2.249E+01	Analog	0.30	3
Al			2	5034.364	ug/l	1.72	731,241.41	7.440E+00	Pulse	0.30	3
K			2	5131.783	ug/l	2.72	1,487,302.83	1.514E+01	Analog	0.30	3
Ca			2	5051.492	ug/l	2.48	78,426.61	7.981E-01	Pulse	0.30	3
Ti			2	0.029	ug/l	215.08	10.00	1.024E-04	Pulse	0.30	3
V			2	-0.028	ug/l	-43.80	334.45	3.404E-03	Pulse	0.30	3
Cr			2	0.007	ug/l	91.41	186.04	1.889E-03	Pulse	0.30	3
Mn			2	0.160	ug/l	5.25	521.13	5.303E-03	Pulse	0.30	3
Fe			2	5206.968	ug/l	2.35	20,421,294.19	2.078E+02	Analog	0.30	3
Co			2	0.044	ug/l	10.23	369.32	3.761E-03	Pulse	0.30	3
Ni			2	0.088	ug/l	33.67	943.37	9.596E-03	Pulse	0.30	3
Cu			2	-0.054	ug/l	-31.35	1,105.61	1.126E-02	Pulse	0.30	3
Zn			2	-0.282	ug/l	-81.22	6,460.25	6.573E-02	Pulse	0.30	3
As			2	0.014	ug/l	28.92	19.33	1.964E-04	Pulse	1.00	3
Cd			2	0.007	ug/l	106.42	15.54	2.458E-05	Pulse	0.30	3
Sn			2	0.307	ug/l	16.43	1,237.84	1.956E-03	Pulse	0.30	3
Se			3	2.103	ug/l	30.93	163.20	1.872E-03	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,818,159.10	0.27	98.3	Analog	0.10	3
1	Sc		2,656,504.02	0.21	100.3	Analog	0.10	3
1	Ge		512,357.23	0.87	98.5	Pulse	0.10	3

Quantitation Report

1	Ge		707,242.54	1.68	98.7	Pulse	0.10	3
1	Rh		3,335,415.06	0.50	93.8	Analog	0.10	3
1	In		3,537,731.11	1.91	96.5	Analog	0.10	3
1	Tb		5,017,598.88	1.21	99.1	Analog	0.10	3
1	Ho		5,003,319.82	1.31	99.4	Analog	0.10	3
1	Bi		3,061,789.75	0.95	97.6	Analog	0.10	3
2	Sc		98,301.85	1.95	102.8	Pulse	0.30	3
2	Ge		61,148.50	0.39	98.8	Pulse	0.30	3
2	Ge		93,797.81	0.41	100.4	Pulse	0.30	3
2	Rh		1,630,354.97	0.86	96.3	Analog	0.30	3
2	In		632,228.98	0.93	99.1	Pulse	0.30	3
2	Tb		2,387,671.85	0.57	100.2	Analog	0.30	3
2	Ho		2,451,665.39	1.57	101.0	Analog	0.30	3
2	Bi		1,673,197.12	2.32	97.7	Analog	0.30	3
3	Sc		93,775.57	1.42	104.9	Pulse	0.30	3
3	Ge		58,241.38	0.52	99.5	Pulse	0.30	3
3	Ge		87,258.68	0.45	98.2	Pulse	0.30	3
3	Rh		956,524.48	0.48	97.7	Pulse	0.30	3
3	Tb		1,843,474.30	1.75	99.4	Analog	0.30	3

Quantitation Report

File Name	012CALS.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:32
Sample Name	STDJ
Sample Type	CalStd
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.006	ug/l	20.43	229.34	8.371E-05	Pulse	0.25	3
B			1	1.344	ug/l	1.40	7,741.95	2.826E-03	Pulse	0.15	3
Ca			1	9946.633	ug/l	0.50	8,700,113.20	3.340E+00	Analog	0.10	3
Sr			1	0.071	ug/l	6.80	3,323.80	1.012E-03	Pulse	0.10	3
Mo			1	0.027	ug/l	15.49	253.35	7.708E-05	Pulse	0.10	3
Ag			1	0.007	ug/l	50.58	176.67	5.182E-05	Pulse	0.10	3
Sn			1	0.060	ug/l	21.35	1,960.20	5.740E-04	Pulse	0.10	3
Sb			1	0.078	ug/l	7.70	1,386.78	2.823E-04	Pulse	0.10	3
Ba			1	0.073	ug/l	15.92	546.70	1.113E-04	Pulse	0.10	3
Tl			1	0.006	ug/l	40.20	323.35	1.097E-04	Pulse	0.10	3
Pb			1	0.065	ug/l	31.48	2,980.41	1.013E-03	Pulse	0.10	3
Pb			1	0.058	ug/l	39.88	2,460.31	8.363E-04	Pulse	0.10	3
Pb			1	0.060	ug/l	15.68	11,602.23	3.942E-03	Pulse	0.10	3
Na			2	9788.151	ug/l	1.65	8,582,897.99	8.557E+01	Analog	0.30	3
Mg			2	9819.220	ug/l	1.45	4,163,620.25	4.151E+01	Analog	0.30	3
Al			2	9986.275	ug/l	1.71	1,480,041.16	1.476E+01	Analog	0.30	3
K			2	9902.130	ug/l	1.97	2,917,200.99	2.909E+01	Analog	0.30	3
Ca			2	9673.210	ug/l	1.21	153,227.42	1.528E+00	Pulse	0.30	3
Ti			2	0.066	ug/l	111.67	14.44	1.433E-04	Pulse	0.30	3
V			2	-0.041	ug/l	-8.71	293.34	2.923E-03	Pulse	0.30	3
Cr			2	-0.010	ug/l	-69.50	108.41	1.081E-03	Pulse	0.30	3
Mn			2	0.294	ug/l	12.17	883.37	8.802E-03	Pulse	0.30	3
Fe			2	9752.875	ug/l	2.24	39,026,168.45	3.891E+02	Analog	0.30	3
Co			2	0.077	ug/l	16.47	643.55	6.410E-03	Pulse	0.30	3
Ni			2	0.229	ug/l	19.92	1,263.40	1.259E-02	Pulse	0.30	3
Cu			2	-0.029	ug/l	-25.20	1,280.07	1.276E-02	Pulse	0.30	3
Zn			2	1.219	ug/l	0.81	7,982.02	7.957E-02	Pulse	0.30	3
As			2	0.009	ug/l	153.54	17.33	1.731E-04	Pulse	1.00	3
Cd			2	0.011	ug/l	23.25	19.99	3.246E-05	Pulse	0.30	3
Sn			2	0.173	ug/l	22.83	826.70	1.342E-03	Pulse	0.30	3
Se			3	0.184	ug/l	35.17	16.40	1.871E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,739,053.02	1.58	95.6	Analog	0.10	3
1	Sc		2,604,998.30	1.38	98.3	Analog	0.10	3
1	Ge		502,280.79	1.42	96.6	Pulse	0.10	3

Quantitation Report

1	Ge		690,900.43	1.06	96.4	Pulse	0.10	3
1	Rh		3,285,191.31	0.76	92.4	Analog	0.10	3
1	In		3,417,761.14	1.56	93.2	Analog	0.10	3
1	Tb		4,911,484.93	1.42	97.0	Analog	0.10	3
1	Ho		4,872,540.55	1.03	96.8	Analog	0.10	3
1	Bi		2,943,633.29	1.04	93.9	Analog	0.10	3
2	Sc		100,309.41	1.31	104.9	Pulse	0.30	3
2	Ge		60,694.60	2.07	98.0	Pulse	0.30	3
2	Ge		91,002.17	1.99	97.4	Pulse	0.30	3
2	Rh		1,584,302.30	0.48	93.6	Analog	0.30	3
2	In		616,073.55	0.56	96.6	Pulse	0.30	3
2	Tb		2,358,942.27	0.88	99.0	Analog	0.30	3
2	Ho		2,415,073.10	0.71	99.4	Analog	0.30	3
2	Bi		1,628,409.45	0.40	95.1	Analog	0.30	3
3	Sc		92,546.33	0.10	103.5	Pulse	0.30	3
3	Ge		57,145.19	0.69	97.6	Pulse	0.30	3
3	Ge		87,664.43	0.30	98.6	Pulse	0.30	3
3	Rh		930,158.23	0.18	95.0	Pulse	0.30	3
3	Tb		1,829,360.48	0.86	98.7	Analog	0.30	3

Quantitation Report

File Name	013SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 14:58
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.005	ug/l	-34.73	149.33	5.261E-05	Pulse	0.25	3
B			1	0.370	ug/l	11.40	2,651.39	9.339E-04	Pulse	0.15	3
Ca			1	-1.436	ug/l	-42.19	8,665.91	3.435E-03	Pulse	0.10	3
Sr			1	-0.002	ug/l	-37.81	370.02	1.091E-04	Pulse	0.10	3
Mo			1	0.015	ug/l	35.18	156.68	4.621E-05	Pulse	0.10	3
Ag			1	0.002	ug/l	29.29	70.00	1.978E-05	Pulse	0.10	3
Sn			1	0.325	ug/l	19.89	5,561.23	1.571E-03	Pulse	0.10	3
Sb			1	0.030	ug/l	27.30	610.03	1.242E-04	Pulse	0.10	3
Ba			1	-0.004	ug/l	-57.37	53.33	1.085E-05	Pulse	0.10	3
Tl			1	0.000	ug/l	18587.33	110.00	3.591E-05	Pulse	0.10	3
Pb			1	0.008	ug/l	169.11	2,330.27	7.592E-04	Pulse	0.10	3
Pb			1	0.009	ug/l	41.66	2,000.22	6.519E-04	Pulse	0.10	3
Pb			1	-0.004	ug/l	-21.01	8,621.27	2.810E-03	Pulse	0.10	3
Na			2	0.099	ug/l	106.25	3,260.36	3.401E-02	Pulse	0.30	3
Mg			2	0.054	ug/l	215.02	193.34	2.017E-03	Pulse	0.30	3
Al			2	3.253	ug/l	15.03	648.92	6.765E-03	Pulse	0.30	3
K			2	2.377	ug/l	45.61	12,823.88	1.338E-01	Pulse	0.30	3
Ca			2	-0.210	ug/l	-710.82	53.33	5.546E-04	Pulse	0.30	3
Ti			2	0.041	ug/l	118.19	11.11	1.161E-04	Pulse	0.30	3
V			2	-0.024	ug/l	-24.84	341.12	3.557E-03	Pulse	0.30	3
Cr			2	0.050	ug/l	16.92	381.10	3.975E-03	Pulse	0.30	3
Mn			2	0.005	ug/l	197.86	120.00	1.252E-03	Pulse	0.30	3
Fe			2	26.735	ug/l	16.92	112,260.28	1.170E+00	Pulse	0.30	3
Co			2	-0.001	ug/l	-115.78	13.03	1.364E-04	Pulse	0.30	3
Ni			2	-0.013	ug/l	-196.06	714.47	7.453E-03	Pulse	0.30	3
Cu			2	-0.144	ug/l	-2.34	580.02	6.052E-03	Pulse	0.30	3
Zn			2	-0.476	ug/l	-17.61	6,129.00	6.394E-02	Pulse	0.30	3
As			2	0.012	ug/l	6.16	18.33	1.912E-04	Pulse	1.00	3
Cd			2	0.002	ug/l	207.71	7.77	1.265E-05	Pulse	0.30	3
Sn			2	0.763	ug/l	17.65	2,508.01	4.065E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.072	ug/l	21.82	7.47	8.874E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,839,634.24	1.60	99.1	Analog	0.10	3
1	Sc		2,525,234.34	2.78	95.3	Analog	0.10	3
1	Ge		482,936.60	0.38	92.9	Pulse	0.10	3
1	Ge		669,570.28	0.69	93.5	Pulse	0.10	3
1	Rh		3,392,363.07	0.25	95.4	Analog	0.10	3
1	In		3,539,445.95	0.35	96.5	Analog	0.10	3
1	Tb		4,907,818.89	1.07	96.9	Analog	0.10	3
1	Ho		4,889,586.49	0.10	97.1	Analog	0.10	3
1	Bi		3,068,279.12	0.63	97.8	Analog	0.10	3
2	Sc		95,860.63	1.18	100.2	Pulse	0.30	3
2	Ge		60,037.88	0.35	97.0	Pulse	0.30	3
2	Ge		90,316.70	1.40	96.7	Pulse	0.30	3
2	Rh		1,669,663.30	0.76	98.6	Analog	0.30	3
2	In		616,581.10	0.84	96.6	Pulse	0.30	3
2	Tb		2,366,901.43	0.26	99.3	Analog	0.30	3
2	Ho		2,420,754.97	0.59	99.7	Analog	0.30	3
2	Bi		1,690,977.37	0.32	98.8	Analog	0.30	3
3	Sc		87,287.10	0.74	97.6	Pulse	0.30	3
3	Ge		55,345.68	0.99	94.5	Pulse	0.30	3
3	Ge		84,082.29	0.66	94.6	Pulse	0.30	3
3	Rh		930,838.51	0.14	95.0	Pulse	0.30	3
3	Tb		1,815,361.25	0.51	97.9	Analog	0.30	3

Quantitation Report

File Name	014SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:02
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.006	ug/l	-51.15	137.33	4.839E-05	Pulse	0.25	3
B			1	0.432	ug/l	7.03	2,991.46	1.054E-03	Pulse	0.15	3
Ca			1	-0.126	ug/l	-493.33	9,803.32	3.874E-03	Pulse	0.10	3
Sr			1	0.005	ug/l	46.36	640.04	1.878E-04	Pulse	0.10	3
Mo			1	0.003	ug/l	237.57	60.00	1.757E-05	Pulse	0.10	3
Ag			1	0.002	ug/l	113.90	76.67	2.169E-05	Pulse	0.10	3
Sn			1	-0.005	ug/l	-84.37	1,166.76	3.296E-04	Pulse	0.10	3
Sb			1	0.007	ug/l	20.97	226.68	4.656E-05	Pulse	0.10	3
Ba			1	0.043	ug/l	23.91	350.02	7.192E-05	Pulse	0.10	3
Tl			1	-0.001	ug/l	-36.39	76.67	2.515E-05	Pulse	0.10	3
Pb			1	0.003	ug/l	442.03	2,246.92	7.369E-04	Pulse	0.10	3
Pb			1	0.001	ug/l	1186.39	1,896.86	6.219E-04	Pulse	0.10	3
Pb			1	0.003	ug/l	228.39	8,934.73	2.930E-03	Pulse	0.10	3
Na			2	0.357	ug/l	28.74	3,395.94	3.627E-02	Pulse	0.30	3
Mg			2	0.206	ug/l	39.60	248.89	2.660E-03	Pulse	0.30	3
Al			2	0.537	ug/l	50.75	257.78	2.752E-03	Pulse	0.30	3
K			2	4.183	ug/l	19.42	13,020.75	1.391E-01	Pulse	0.30	3
Ca			2	0.643	ug/l	164.54	64.44	6.893E-04	Pulse	0.30	3
Ti			2	-0.042	ug/l	-44.26	2.22	2.380E-05	Pulse	0.30	3
V			2	-0.013	ug/l	-41.05	371.12	3.963E-03	Pulse	0.30	3
Cr			2	-0.001	ug/l	-592.20	142.82	1.524E-03	Pulse	0.30	3
Mn			2	-0.009	ug/l	-28.91	83.33	8.899E-04	Pulse	0.30	3
Fe			2	4.362	ug/l	22.18	25,985.36	2.773E-01	Pulse	0.30	3
Co			2	0.000	ug/l	-394.29	17.71	1.895E-04	Pulse	0.30	3
Ni			2	0.030	ug/l	92.48	782.25	8.354E-03	Pulse	0.30	3
Cu			2	-0.120	ug/l	-4.65	696.69	7.441E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	0.025	ug/l	892.87	6,418.00	6.856E-02	Pulse	0.30	3
As			2	0.003	ug/l	225.92	13.67	1.462E-04	Pulse	1.00	3
Cd			2	-0.001	ug/l	-405.23	4.45	7.103E-06	Pulse	0.30	3
Sn			2	0.062	ug/l	55.79	518.90	8.294E-04	Pulse	0.30	3
Se			3	0.019	ug/l	50.81	3.60	4.214E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,838,540.59	0.65	99.0	Analog	0.10	3
1	Sc		2,531,178.61	1.22	95.6	Analog	0.10	3
1	Ge		489,290.62	1.54	94.1	Pulse	0.10	3
1	Ge		678,276.16	1.49	94.7	Pulse	0.10	3
1	Rh		3,406,183.49	0.46	95.8	Analog	0.10	3
1	In		3,541,395.06	1.32	96.6	Analog	0.10	3
1	Tb		4,871,399.41	0.80	96.2	Analog	0.10	3
1	Ho		4,842,268.16	1.12	96.2	Analog	0.10	3
1	Bi		3,049,582.66	0.46	97.2	Analog	0.10	3
2	Sc		93,629.06	0.90	97.9	Pulse	0.30	3
2	Ge		60,932.33	0.87	98.4	Pulse	0.30	3
2	Ge		92,457.20	0.14	98.9	Pulse	0.30	3
2	Rh		1,682,131.91	1.50	99.4	Analog	0.30	3
2	In		625,753.82	0.23	98.1	Pulse	0.30	3
2	Tb		2,385,892.27	0.52	100.1	Analog	0.30	3
2	Ho		2,437,227.13	0.54	100.4	Analog	0.30	3
2	Bi		1,694,028.30	0.45	98.9	Analog	0.30	3
3	Sc		85,038.41	2.13	95.1	Pulse	0.30	3
3	Ge		57,269.33	1.71	97.8	Pulse	0.30	3
3	Ge		85,528.62	1.20	96.2	Pulse	0.30	3
3	Rh		949,241.28	1.06	96.9	Pulse	0.30	3
3	Tb		1,832,408.40	0.34	98.8	Analog	0.30	3

Quantitation Report

File Name	015_QC1.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:05
Sample Name	ICVA
Sample Type	QC1
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	61.699	ug/l	1.53	508,920.96	1.824E-01	Pulse	0.25	3
B			1	121.434	ug/l	3.70	659,487.80	2.364E-01	Pulse	0.15	3
Ca			1	5330.671	ug/l	1.55	4,715,873.37	1.792E+00	Analog	0.10	3
Sr			1	62.044	ug/l	0.56	2,532,812.25	7.699E-01	Analog	0.10	3
Mo			1	58.750	ug/l	0.61	464,090.93	1.411E-01	Pulse	0.10	3
Ag			1	60.230	ug/l	2.60	1,219,618.08	3.514E-01	Mix	0.10	3
Sn			1	57.143	ug/l	1.08	746,556.81	2.151E-01	Pulse	0.10	3
Sb			1	58.690	ug/l	1.86	966,874.57	1.966E-01	Pulse	0.10	3
Ba			1	58.203	ug/l	1.46	370,733.60	7.539E-02	Pulse	0.10	3
Tl			1	63.887	ug/l	0.71	2,441,287.05	8.205E-01	Analog	0.10	3
Pb			1	60.783	ug/l	0.79	807,087.80	2.712E-01	Pulse	0.10	3
Pb			1	57.960	ug/l	1.26	657,491.59	2.210E-01	Pulse	0.10	3
Pb			1	60.817	ug/l	1.02	3,185,248.22	1.070E+00	Analog	0.10	3
Na			2	5474.194	ug/l	3.53	4,733,296.48	4.787E+01	Analog	0.30	3
Mg			2	5810.876	ug/l	2.50	2,429,439.91	2.457E+01	Analog	0.30	3
Al			2	5430.460	ug/l	2.48	793,633.56	8.026E+00	Pulse	0.30	3
K			2	5549.843	ug/l	2.44	1,617,628.89	1.636E+01	Analog	0.30	3
Ca			2	5622.248	ug/l	1.92	87,836.52	8.882E-01	Pulse	0.30	3
Ti			2	59.094	ug/l	5.20	6,494.70	6.570E-02	Pulse	0.30	3
V			2	60.432	ug/l	1.83	225,394.10	2.279E+00	Pulse	0.30	3
Cr			2	59.621	ug/l	1.73	286,492.51	2.897E+00	Pulse	0.30	3
Mn			2	59.482	ug/l	2.19	153,886.56	1.556E+00	Pulse	0.30	3
Fe			2	5472.413	ug/l	2.95	21,595,283.59	2.184E+02	Analog	0.30	3
Co			2	58.652	ug/l	2.58	465,601.53	4.708E+00	Pulse	0.30	3
Ni			2	58.405	ug/l	2.27	123,224.65	1.246E+00	Pulse	0.30	3
Cu			2	57.520	ug/l	2.82	331,464.15	3.352E+00	Pulse	0.30	3
Zn			2	58.477	ug/l	1.54	60,122.17	6.079E-01	Pulse	0.30	3
As			2	60.535	ug/l	1.74	29,873.58	3.021E-01	Pulse	1.00	3
Cd			2	59.541	ug/l	0.20	84,999.62	1.348E-01	Pulse	0.30	3
Sn			2	60.009	ug/l	0.82	175,077.48	2.777E-01	Pulse	0.30	3
Se			3	259.941	ug/l	1.42	20,391.99	2.283E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,790,605.28	0.83	97.4	Analog	0.10	3
1	Sc		2,632,479.86	1.60	99.4	Analog	0.10	3
1	Ge		505,569.03	2.36	97.2	Pulse	0.10	3

Quantitation Report

1	Ge		699,115.90	1.78	97.6	Pulse	0.10	3
1	Rh		3,289,582.97	1.41	92.5	Analog	0.10	3
1	In		3,470,745.37	0.53	94.7	Analog	0.10	3
1	Tb		4,917,468.05	1.31	97.1	Analog	0.10	3
1	Ho		4,896,570.24	0.83	97.3	Analog	0.10	3
1	Bi		2,975,573.81	0.75	94.9	Analog	0.10	3
2	Sc		98,925.01	2.30	103.4	Pulse	0.30	3
2	Ge		62,625.37	1.31	101.2	Pulse	0.30	3
2	Ge		94,901.01	2.06	101.6	Pulse	0.30	3
2	Rh		1,613,419.87	1.92	95.3	Analog	0.30	3
2	In		630,514.56	0.59	98.8	Pulse	0.30	3
2	Tb		2,376,533.38	0.10	99.7	Analog	0.30	3
2	Ho		2,436,799.00	0.26	100.3	Analog	0.30	3
2	Bi		1,665,260.87	0.34	97.3	Analog	0.30	3
3	Sc		90,182.73	0.68	100.8	Pulse	0.30	3
3	Ge		58,244.60	1.26	99.5	Pulse	0.30	3
3	Ge		89,352.44	1.52	100.5	Pulse	0.30	3
3	Rh		945,347.60	1.10	96.5	Pulse	0.30	3
3	Tb		1,843,636.18	0.67	99.4	Analog	0.30	3

Quantitation Report

File Name	016SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:08
Sample Name	ICV
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.021	ug/l	49.67	364.01	1.296E-04	Pulse	0.25	3
B			1	2.490	ug/l	8.55	14,137.35	5.056E-03	Pulse	0.15	3
Ca			1	5.218	ug/l	13.24	14,113.29	5.667E-03	Pulse	0.10	3
Sr			1	0.018	ug/l	7.56	1,183.43	3.528E-04	Pulse	0.10	3
Mo			1	0.029	ug/l	8.40	270.02	8.051E-05	Pulse	0.10	3
Ag			1	0.016	ug/l	16.26	356.69	1.017E-04	Pulse	0.10	3
Sn			1	0.226	ug/l	23.54	4,204.08	1.197E-03	Pulse	0.10	3
Sb			1	0.016	ug/l	8.04	370.02	7.672E-05	Pulse	0.10	3
Ba			1	0.015	ug/l	41.27	173.34	3.591E-05	Pulse	0.10	3
Tl			1	0.020	ug/l	12.78	880.06	2.899E-04	Pulse	0.10	3
Pb			1	0.018	ug/l	76.58	2,440.29	8.037E-04	Pulse	0.10	3
Pb			1	0.035	ug/l	9.57	2,276.93	7.494E-04	Pulse	0.10	3
Pb			1	0.022	ug/l	33.92	9,945.02	3.274E-03	Pulse	0.10	3
Na			2	2.227	ug/l	10.59	4,898.56	5.261E-02	Pulse	0.30	3
Mg			2	1.222	ug/l	17.07	647.80	6.956E-03	Pulse	0.30	3
Al			2	61.627	ug/l	3.60	8,661.21	9.301E-02	Pulse	0.30	3
K			2	4.861	ug/l	18.04	13,137.50	1.411E-01	Pulse	0.30	3
Ca			2	5.499	ug/l	9.28	135.56	1.456E-03	Pulse	0.30	3
Ti			2	0.195	ug/l	103.55	26.66	2.871E-04	Pulse	0.30	3
V			2	-0.010	ug/l	-136.91	380.01	4.081E-03	Pulse	0.30	3
Cr			2	0.016	ug/l	28.19	216.31	2.324E-03	Pulse	0.30	3
Mn			2	0.017	ug/l	67.25	146.67	1.574E-03	Pulse	0.30	3
Fe			2	17.179	ug/l	17.20	73,402.38	7.886E-01	Pulse	0.30	3
Co			2	0.010	ug/l	18.46	95.35	1.024E-03	Pulse	0.30	3
Ni			2	0.019	ug/l	192.49	756.69	8.127E-03	Pulse	0.30	3
Cu			2	-0.050	ug/l	-8.01	1,073.38	1.153E-02	Pulse	0.30	3
Zn			2	1.069	ug/l	25.08	7,281.70	7.820E-02	Pulse	0.30	3
As			2	0.017	ug/l	56.03	20.00	2.146E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.017	ug/l	41.04	29.97	4.751E-05	Pulse	0.30	3
Sn			2	0.540	ug/l	22.87	1,915.70	3.033E-03	Pulse	0.30	3
Se			3	0.269	ug/l	7.68	22.53	2.618E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,799,871.29	2.50	97.7	Analog	0.10	3
1	Sc		2,489,394.08	1.80	94.0	Analog	0.10	3
1	Ge		496,021.58	1.65	95.4	Pulse	0.10	3
1	Ge		685,495.48	1.90	95.7	Pulse	0.10	3
1	Rh		3,355,470.47	1.17	94.4	Analog	0.10	3
1	In		3,507,541.62	1.58	95.7	Analog	0.10	3
1	Tb		4,823,380.24	0.56	95.2	Analog	0.10	3
1	Ho		4,825,068.16	1.20	95.8	Analog	0.10	3
1	Bi		3,038,767.25	1.54	96.9	Analog	0.10	3
2	Sc		93,128.25	0.56	97.4	Pulse	0.30	3
2	Ge		60,564.10	0.28	97.8	Pulse	0.30	3
2	Ge		91,629.13	1.32	98.1	Pulse	0.30	3
2	Rh		1,655,892.37	0.23	97.8	Analog	0.30	3
2	In		631,020.49	1.14	98.9	Pulse	0.30	3
2	Tb		2,357,405.95	1.06	98.9	Analog	0.30	3
2	Ho		2,393,098.80	0.88	98.5	Analog	0.30	3
2	Bi		1,681,848.41	0.84	98.2	Analog	0.30	3
3	Sc		83,320.34	1.41	93.2	Pulse	0.30	3
3	Ge		56,494.14	0.58	96.5	Pulse	0.30	3
3	Ge		86,079.49	0.75	96.8	Pulse	0.30	3
3	Rh		954,786.98	1.00	97.5	Pulse	0.30	3
3	Tb		1,802,067.64	1.87	97.2	Analog	0.30	3

Quantitation Report

File Name	017BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:12
Sample Name	ICB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.007	ug/l	-34.64	126.67	4.509E-05	Pulse	0.25	3
B			1	0.821	ug/l	8.54	5,087.56	1.810E-03	Pulse	0.15	3
Ca			1	-0.535	ug/l	-87.48	9,312.97	3.737E-03	Pulse	0.10	3
Sr			1	-0.002	ug/l	-124.92	360.02	1.070E-04	Pulse	0.10	3
Mo			1	0.003	ug/l	43.52	63.33	1.884E-05	Pulse	0.10	3
Ag			1	0.001	ug/l	79.55	60.00	1.733E-05	Pulse	0.10	3
Sn			1	0.049	ug/l	43.56	1,843.52	5.310E-04	Pulse	0.10	3
Sb			1	0.005	ug/l	49.21	180.01	3.774E-05	Pulse	0.10	3
Ba			1	-0.003	ug/l	-144.73	56.67	1.189E-05	Pulse	0.10	3
Tl			1	0.002	ug/l	44.48	170.01	5.690E-05	Pulse	0.10	3
Pb			1	0.014	ug/l	82.76	2,346.95	7.850E-04	Pulse	0.10	3
Pb			1	0.016	ug/l	53.59	2,023.54	6.766E-04	Pulse	0.10	3
Pb			1	0.013	ug/l	31.16	9,314.84	3.114E-03	Pulse	0.10	3
Na			2	0.070	ug/l	290.43	3,103.66	3.376E-02	Pulse	0.30	3
Mg			2	0.083	ug/l	68.15	196.67	2.139E-03	Pulse	0.30	3
Al			2	-0.246	ug/l	-78.96	146.67	1.595E-03	Pulse	0.30	3
K			2	3.755	ug/l	17.11	12,673.82	1.378E-01	Pulse	0.30	3
Ca			2	-0.203	ug/l	-168.58	51.11	5.558E-04	Pulse	0.30	3
Ti			2	0.056	ug/l	89.20	12.22	1.331E-04	Pulse	0.30	3
V			2	-0.015	ug/l	-23.82	357.79	3.891E-03	Pulse	0.30	3
Cr			2	-0.006	ug/l	-89.41	116.17	1.263E-03	Pulse	0.30	3
Mn			2	0.000	ug/l	-4403.46	103.34	1.124E-03	Pulse	0.30	3
Fe			2	4.248	ug/l	24.16	25,092.94	2.728E-01	Pulse	0.30	3
Co			2	0.000	ug/l	-167.29	16.60	1.803E-04	Pulse	0.30	3
Ni			2	0.006	ug/l	486.67	722.25	7.857E-03	Pulse	0.30	3
Cu			2	-0.149	ug/l	-5.34	530.02	5.764E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.037	ug/l	-276.87	6,252.38	6.799E-02	Pulse	0.30	3
As			2	0.001	ug/l	1088.53	12.33	1.341E-04	Pulse	1.00	3
Cd			2	0.004	ug/l	134.43	11.11	1.761E-05	Pulse	0.30	3
Sn			2	0.158	ug/l	18.76	801.14	1.272E-03	Pulse	0.30	3
Se			3	0.057	ug/l	25.17	6.47	7.557E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,812,019.81	1.51	98.1	Analog	0.10	3
1	Sc		2,493,890.80	2.83	94.1	Analog	0.10	3
1	Ge		485,427.45	0.48	93.4	Pulse	0.10	3
1	Ge		674,793.45	0.50	94.2	Pulse	0.10	3
1	Rh		3,359,803.08	0.83	94.5	Analog	0.10	3
1	In		3,468,729.36	0.95	94.6	Analog	0.10	3
1	Tb		4,770,295.35	0.94	94.2	Analog	0.10	3
1	Ho		4,784,018.37	0.08	95.0	Analog	0.10	3
1	Bi		2,990,808.19	0.99	95.4	Analog	0.10	3
2	Sc		91,952.03	0.49	96.1	Pulse	0.30	3
2	Ge		61,120.55	1.41	98.7	Pulse	0.30	3
2	Ge		92,406.90	0.83	98.9	Pulse	0.30	3
2	Rh		1,661,472.99	0.72	98.1	Analog	0.30	3
2	In		629,357.21	0.71	98.6	Pulse	0.30	3
2	Tb		2,353,138.38	0.52	98.8	Analog	0.30	3
2	Ho		2,400,099.56	0.43	98.8	Analog	0.30	3
2	Bi		1,669,464.21	1.23	97.5	Analog	0.30	3
3	Sc		83,463.47	0.03	93.3	Pulse	0.30	3
3	Ge		56,609.12	0.58	96.7	Pulse	0.30	3
3	Ge		85,538.99	0.82	96.2	Pulse	0.30	3
3	Rh		951,886.60	0.45	97.2	Pulse	0.30	3
3	Tb		1,822,860.83	0.93	98.3	Analog	0.30	3

Quantitation Report

File Name	018_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:16
Sample Name	sampleconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.955	ug/l	11.00	145.33	1.471E-02	Pulse	0.25	3
B			1	193.860	ug/l	14.75	3,720.53	3.772E-01	Pulse	0.15	3
Ca			1	1002.221	ug/l	10.32	8,569.26	3.400E-01	Pulse	0.10	3
Sr			1	17.684	ug/l	29.63	163.34	2.195E-01	Pulse	0.10	3
Mo			1	16.696	ug/l	86.63	26.67	4.010E-02	Pulse	0.10	3
Ag			1	9.865	ug/l	32.67	56.67	5.756E-02	Pulse	0.10	3
Sn			1	198.214	ug/l	9.13	750.05	7.452E-01	Pulse	0.10	3
Sb			1	21.318	ug/l	24.73	143.34	7.144E-02	Pulse	0.10	3
Ba			1	11.363	ug/l	82.29	30.00	1.473E-02	Pulse	0.10	3
Tl			1	2.521	ug/l	16.84	263.35	3.241E-02	Pulse	0.10	3
Pb			1	6.214	ug/l	16.39	230.01	2.838E-02	Pulse	0.10	3
Pb			1	4.372	ug/l	10.88	140.01	1.724E-02	Pulse	0.10	3
Pb			1	4.661	ug/l	9.46	690.03	8.471E-02	Pulse	0.10	3
Na			2	516.079	ug/l	12.43	2,925.85	4.543E+00	Pulse	0.30	3
Mg			2	61.849	ug/l	53.09	164.45	2.633E-01	Pulse	0.30	3
Al			2	112.067	ug/l	46.50	105.56	1.675E-01	Pulse	0.30	3
K			2	6568.903	ug/l	11.81	12,460.32	1.934E+01	Pulse	0.30	3
Ca			2	521.199	ug/l	14.22	53.33	8.287E-02	Pulse	0.30	3
Ti			2	1.414	ug/l	180.97	1.11	1.640E-03	Pulse	0.30	3
V			2	13.900	ug/l	15.95	338.90	5.276E-01	Pulse	0.30	3
Cr			2	4.028	ug/l	51.09	123.26	1.972E-01	Pulse	0.30	3
Mn			2	2.542	ug/l	52.45	42.22	6.758E-02	Pulse	0.30	3
Fe			2	142.391	ug/l	25.48	3,689.35	5.783E+00	Pulse	0.30	3
Co			2	0.751	ug/l	54.62	37.77	6.049E-02	Pulse	0.30	3
Ni			2	5.180	ug/l	37.19	74.45	1.175E-01	Pulse	0.30	3
Cu			2	5.139	ug/l	14.45	201.12	3.126E-01	Pulse	0.30	3
Zn			2	136.612	ug/l	19.58	852.26	1.329E+00	Pulse	0.30	3
As			2	2.958	ug/l	27.12	9.67	1.488E-02	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	19.220	ug/l	64.21	8.89	4.352E-02	Pulse	0.30	3
Sn			2	200.166	ug/l	49.63	164.45	9.250E-01	Pulse	0.30	3
Se			3	14.717	ug/l	19.83	2.07	1.295E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		9,916.11	5.39	0.3	Pulse	0.10	3
1	Sc		25,390.24	10.98	1.0	Pulse	0.10	3
1	Ge		2,857.04	8.79	0.5	Pulse	0.10	3
1	Ge		1,550.15	14.88	0.2	Pulse	0.10	3
1	Rh		783.38	26.17	0.0	Pulse	0.10	3
1	In		1,008.06	10.76	0.0	Pulse	0.10	3
1	Tb		1,983.54	7.07	0.0	Pulse	0.10	3
1	Ho		2,166.91	6.85	0.0	Pulse	0.10	3
1	Bi		8,142.55	4.43	0.3	Pulse	0.10	3
2	Sc		650.02	11.34	0.7	Pulse	0.30	3
2	Ge		122.23	11.36	0.2	Pulse	0.30	3
2	Ge		183.34	16.16	0.2	Pulse	0.30	3
2	Rh		425.57	72.26	0.0	Pulse	0.30	3
2	In		231.46	70.27	0.0	Pulse	0.30	3
2	Tb		904.49	26.71	0.0	Pulse	0.30	3
2	Ho		845.59	27.90	0.0	Pulse	0.30	3
2	Bi		3,524.91	3.49	0.2	Pulse	0.30	3
3	Sc		386.68	15.15	0.4	Pulse	0.30	3
3	Ge		126.67	16.01	0.2	Pulse	0.30	3
3	Ge		158.89	6.41	0.2	Pulse	0.30	3
3	Rh		166.67	10.58	0.0	Pulse	0.30	3
3	Tb		462.23	5.51	0.0	Pulse	0.30	3

Quantitation Report

File Name	019BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:19
Sample Name	sampleconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.006	ug/l	-30.88	137.33	4.873E-05	Pulse	0.25	3
B			1	0.518	ug/l	8.21	3,442.68	1.221E-03	Pulse	0.15	3
Ca			1	-1.365	ug/l	-17.48	8,812.70	3.459E-03	Pulse	0.10	3
Sr			1	-0.001	ug/l	-216.54	393.35	1.170E-04	Pulse	0.10	3
Mo			1	0.015	ug/l	35.03	160.01	4.759E-05	Pulse	0.10	3
Ag			1	0.002	ug/l	66.63	66.67	1.919E-05	Pulse	0.10	3
Sn			1	0.040	ug/l	30.00	1,730.17	4.972E-04	Pulse	0.10	3
Sb			1	0.006	ug/l	28.26	210.01	4.332E-05	Pulse	0.10	3
Ba			1	-0.004	ug/l	-132.43	53.33	1.103E-05	Pulse	0.10	3
Tl			1	0.010	ug/l	20.73	493.36	1.618E-04	Pulse	0.10	3
Pb			1	-0.012	ug/l	-147.92	2,036.89	6.686E-04	Pulse	0.10	3
Pb			1	0.003	ug/l	612.61	1,913.53	6.278E-04	Pulse	0.10	3
Pb			1	0.001	ug/l	346.39	8,861.44	2.910E-03	Pulse	0.10	3
Na			2	-0.178	ug/l	-92.99	3,096.99	3.159E-02	Pulse	0.30	3
Mg			2	0.035	ug/l	104.85	190.00	1.937E-03	Pulse	0.30	3
Al			2	-0.462	ug/l	-47.09	125.56	1.276E-03	Pulse	0.30	3
K			2	-0.223	ug/l	-675.05	12,375.80	1.262E-01	Pulse	0.30	3
Ca			2	-0.567	ug/l	-14.09	48.89	4.983E-04	Pulse	0.30	3
Ti			2	0.028	ug/l	284.92	10.00	1.010E-04	Pulse	0.30	3
V			2	-0.025	ug/l	-61.40	343.34	3.496E-03	Pulse	0.30	3
Cr			2	-0.004	ug/l	-71.08	135.22	1.380E-03	Pulse	0.30	3
Mn			2	-0.015	ug/l	-42.80	72.22	7.356E-04	Pulse	0.30	3
Fe			2	1.723	ug/l	27.50	16,902.26	1.720E-01	Pulse	0.30	3
Co			2	0.000	ug/l	114.61	24.40	2.483E-04	Pulse	0.30	3
Ni			2	-0.030	ug/l	-4.31	694.47	7.079E-03	Pulse	0.30	3
Cu			2	-0.149	ug/l	-6.99	567.79	5.792E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.703	ug/l	-18.67	6,065.65	6.185E-02	Pulse	0.30	3
As			2	0.007	ug/l	233.37	16.00	1.641E-04	Pulse	1.00	3
Cd			2	0.003	ug/l	189.52	9.99	1.614E-05	Pulse	0.30	3
Sn			2	0.131	ug/l	14.22	708.91	1.148E-03	Pulse	0.30	3
Se			3	0.074	ug/l	15.09	7.73	9.009E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,820,525.88	1.22	98.4	Analog	0.10	3
1	Sc		2,547,430.64	2.19	96.2	Analog	0.10	3
1	Ge		487,548.43	1.22	93.8	Pulse	0.10	3
1	Ge		673,095.56	0.68	93.9	Pulse	0.10	3
1	Rh		3,360,440.26	1.74	94.5	Analog	0.10	3
1	In		3,480,443.32	0.91	94.9	Analog	0.10	3
1	Tb		4,845,831.91	0.79	95.7	Analog	0.10	3
1	Ho		4,822,670.45	1.07	95.8	Analog	0.10	3
1	Bi		3,045,627.66	1.20	97.1	Analog	0.10	3
2	Sc		98,101.32	2.01	102.6	Pulse	0.30	3
2	Ge		60,940.10	1.21	98.4	Pulse	0.30	3
2	Ge		90,673.69	1.61	97.0	Pulse	0.30	3
2	Rh		1,648,320.39	0.38	97.4	Analog	0.30	3
2	In		617,500.10	1.02	96.8	Pulse	0.30	3
2	Tb		2,346,288.79	1.57	98.5	Analog	0.30	3
2	Ho		2,405,481.78	1.03	99.0	Analog	0.30	3
2	Bi		1,693,560.84	1.69	98.9	Analog	0.30	3
3	Sc		91,148.00	1.73	101.9	Pulse	0.30	3
3	Ge		56,500.95	1.17	96.5	Pulse	0.30	3
3	Ge		85,785.47	0.97	96.5	Pulse	0.30	3
3	Rh		947,271.25	1.30	96.7	Pulse	0.30	3
3	Tb		1,812,945.00	0.39	97.8	Analog	0.30	3

Quantitation Report

File Name	020SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:23
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.003	ug/l	-267.24	164.00	5.853E-05	Pulse	0.25	3
B			1	0.522	ug/l	2.61	3,440.43	1.229E-03	Pulse	0.15	3
Ca			1	0.510	ug/l	134.11	10,233.53	4.088E-03	Pulse	0.10	3
Sr			1	0.007	ug/l	112.32	753.38	2.220E-04	Pulse	0.10	3
Mo			1	0.006	ug/l	107.48	90.00	2.653E-05	Pulse	0.10	3
Ag			1	0.005	ug/l	118.81	130.00	3.712E-05	Pulse	0.10	3
Sn			1	0.015	ug/l	25.83	1,416.78	4.036E-04	Pulse	0.10	3
Sb			1	0.010	ug/l	44.74	266.68	5.541E-05	Pulse	0.10	3
Ba			1	0.044	ug/l	6.86	353.35	7.337E-05	Pulse	0.10	3
Tl			1	0.004	ug/l	117.70	266.68	8.797E-05	Pulse	0.10	3
Pb			1	0.011	ug/l	51.06	2,336.94	7.694E-04	Pulse	0.10	3
Pb			1	0.010	ug/l	159.60	1,983.55	6.532E-04	Pulse	0.10	3
Pb			1	0.010	ug/l	91.10	9,314.85	3.067E-03	Pulse	0.10	3
Na			2	0.890	ug/l	84.87	3,817.21	4.092E-02	Pulse	0.30	3
Mg			2	0.636	ug/l	135.92	416.69	4.478E-03	Pulse	0.30	3
Al			2	1.063	ug/l	63.89	328.90	3.529E-03	Pulse	0.30	3
K			2	4.183	ug/l	25.49	12,977.39	1.391E-01	Pulse	0.30	3
Ca			2	2.540	ug/l	50.26	92.22	9.888E-04	Pulse	0.30	3
Ti			2	-0.021	ug/l	-232.22	4.44	4.722E-05	Pulse	0.30	3
V			2	-0.019	ug/l	-93.23	348.89	3.742E-03	Pulse	0.30	3
Cr			2	0.004	ug/l	212.59	164.16	1.759E-03	Pulse	0.30	3
Mn			2	0.007	ug/l	165.31	121.11	1.300E-03	Pulse	0.30	3
Fe			2	1.333	ug/l	67.43	14,608.88	1.565E-01	Pulse	0.30	3
Co			2	0.006	ug/l	124.89	65.52	7.035E-04	Pulse	0.30	3
Ni			2	0.004	ug/l	759.18	727.80	7.803E-03	Pulse	0.30	3
Cu			2	-0.130	ug/l	-15.67	641.13	6.872E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	-0.125	ug/l	-207.30	6,267.93	6.717E-02	Pulse	0.30	3
As			2	0.009	ug/l	24.83	16.33	1.750E-04	Pulse	1.00	3
Cd			2	-0.003	ug/l	-44.95	1.11	1.776E-06	Pulse	0.30	3
Sn			2	0.056	ug/l	43.84	502.24	8.007E-04	Pulse	0.30	3
Se			3	0.047	ug/l	60.27	5.73	6.663E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,798,699.69	0.63	97.7	Analog	0.10	3
1	Sc		2,503,531.21	0.26	94.5	Analog	0.10	3
1	Ge		492,108.96	0.78	94.7	Pulse	0.10	3
1	Ge		681,142.62	1.10	95.1	Pulse	0.10	3
1	Rh		3,402,428.80	0.94	95.7	Analog	0.10	3
1	In		3,509,400.29	0.81	95.7	Analog	0.10	3
1	Tb		4,814,998.68	0.59	95.1	Analog	0.10	3
1	Ho		4,801,484.20	1.04	95.4	Analog	0.10	3
1	Bi		3,037,742.66	0.54	96.9	Analog	0.10	3
2	Sc		93,323.12	1.14	97.6	Pulse	0.30	3
2	Ge		60,289.86	0.71	97.4	Pulse	0.30	3
2	Ge		91,695.18	0.70	98.1	Pulse	0.30	3
2	Rh		1,655,440.00	0.80	97.8	Analog	0.30	3
2	In		627,596.39	0.64	98.4	Pulse	0.30	3
2	Tb		2,344,914.70	0.53	98.4	Analog	0.30	3
2	Ho		2,399,273.17	0.35	98.8	Analog	0.30	3
2	Bi		1,655,029.69	1.31	96.7	Analog	0.30	3
3	Sc		86,013.08	1.41	96.2	Pulse	0.30	3
3	Ge		56,514.34	0.04	96.5	Pulse	0.30	3
3	Ge		85,985.74	1.28	96.7	Pulse	0.30	3
3	Rh		944,388.64	0.85	96.4	Pulse	0.30	3
3	Tb		1,809,080.20	0.54	97.6	Analog	0.30	3

Quantitation Report

File Name	021_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:26
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	51.622	ug/l	0.62	426,122.71	1.526E-01	Pulse	0.25	3
B			1	99.591	ug/l	1.05	541,382.71	1.939E-01	Pulse	0.15	3
Ca			1	5062.964	ug/l	3.06	4,461,139.52	1.702E+00	Analog	0.10	3
Sr			1	52.714	ug/l	0.61	2,136,062.21	6.542E-01	Analog	0.10	3
Mo			1	51.702	ug/l	0.34	405,440.20	1.242E-01	Pulse	0.10	3
Ag			1	51.115	ug/l	0.90	1,017,525.87	2.982E-01	Pulse	0.10	3
Sn			1	49.501	ug/l	1.44	635,934.13	1.864E-01	Pulse	0.10	3
Sb			1	50.508	ug/l	0.64	816,833.43	1.692E-01	Pulse	0.10	3
Ba			1	49.330	ug/l	0.92	308,440.62	6.390E-02	Pulse	0.10	3
Tl			1	52.072	ug/l	0.20	1,973,941.01	6.687E-01	Analog	0.10	3
Pb			1	50.188	ug/l	0.97	661,456.51	2.241E-01	Pulse	0.10	3
Pb			1	50.354	ug/l	0.28	566,877.37	1.920E-01	Pulse	0.10	3
Pb			1	51.379	ug/l	0.09	2,670,666.94	9.048E-01	Analog	0.10	3
Na			2	5099.062	ug/l	1.69	4,566,866.07	4.459E+01	Analog	0.30	3
Mg			2	5214.103	ug/l	1.39	2,257,617.48	2.204E+01	Analog	0.30	3
Al			2	4927.093	ug/l	1.71	745,736.29	7.282E+00	Pulse	0.30	3
K			2	5202.689	ug/l	2.99	1,571,086.81	1.534E+01	Analog	0.30	3
Ca			2	5182.625	ug/l	2.11	83,847.50	8.188E-01	Pulse	0.30	3
Ti			2	49.043	ug/l	5.07	5,585.45	5.454E-02	Pulse	0.30	3
V			2	48.746	ug/l	2.37	188,353.71	1.839E+00	Pulse	0.30	3
Cr			2	47.392	ug/l	2.94	235,839.16	2.303E+00	Pulse	0.30	3
Mn			2	47.626	ug/l	2.91	127,619.46	1.246E+00	Pulse	0.30	3
Fe			2	5000.747	ug/l	2.76	20,437,650.86	1.996E+02	Analog	0.30	3
Co			2	47.062	ug/l	2.34	386,906.94	3.778E+00	Pulse	0.30	3
Ni			2	46.685	ug/l	2.19	102,163.40	9.976E-01	Pulse	0.30	3
Cu			2	46.225	ug/l	1.59	276,184.49	2.697E+00	Pulse	0.30	3
Zn			2	46.840	ug/l	1.91	51,259.96	5.005E-01	Pulse	0.30	3
As			2	48.047	ug/l	2.27	24,554.42	2.398E-01	Pulse	1.00	3
Cd			2	50.888	ug/l	0.74	72,233.00	1.152E-01	Pulse	0.30	3
Sn			2	51.697	ug/l	1.06	150,007.92	2.393E-01	Pulse	0.30	3
Se			3	209.546	ug/l	0.79	15,964.84	1.840E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,792,471.06	1.12	97.4	Analog	0.10	3
1	Sc		2,622,333.92	2.17	99.0	Analog	0.10	3
1	Ge		493,208.27	1.47	94.9	Pulse	0.10	3

Quantitation Report

1	Ge		690,288.43	1.45	96.3	Pulse	0.10	3
1	Rh		3,265,599.75	1.75	91.8	Analog	0.10	3
1	In		3,412,414.88	1.48	93.1	Analog	0.10	3
1	Tb		4,826,922.32	0.56	95.3	Analog	0.10	3
1	Ho		4,849,679.93	1.14	96.3	Analog	0.10	3
1	Bi		2,951,779.85	0.86	94.1	Analog	0.10	3
2	Sc		102,423.49	1.21	107.1	Pulse	0.30	3
2	Ge		60,884.01	0.91	98.3	Pulse	0.30	3
2	Ge		93,178.74	0.90	99.7	Pulse	0.30	3
2	Rh		1,622,259.87	1.89	95.8	Analog	0.30	3
2	In		626,906.54	0.58	98.3	Pulse	0.30	3
2	Tb		2,359,966.57	0.57	99.0	Analog	0.30	3
2	Ho		2,401,538.24	0.41	98.9	Analog	0.30	3
2	Bi		1,650,901.22	0.67	96.4	Analog	0.30	3
3	Sc		94,529.87	0.02	105.7	Pulse	0.30	3
3	Ge		57,406.13	1.14	98.0	Pulse	0.30	3
3	Ge		86,763.98	0.34	97.6	Pulse	0.30	3
3	Rh		935,905.00	0.76	95.5	Pulse	0.30	3
3	Tb		1,817,410.28	0.88	98.0	Analog	0.30	3

Quantitation Report

File Name	022BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:29
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.008	ug/l	44.99	250.67	8.983E-05	Pulse	0.25	3
B			1	2.255	ug/l	7.76	12,827.36	4.598E-03	Pulse	0.15	3
Ca			1	-0.999	ug/l	-92.55	8,966.16	3.582E-03	Pulse	0.10	3
Sr			1	0.000	ug/l	-928.26	420.03	1.254E-04	Pulse	0.10	3
Mo			1	0.033	ug/l	33.04	300.01	8.949E-05	Pulse	0.10	3
Ag			1	0.006	ug/l	93.06	153.34	4.434E-05	Pulse	0.10	3
Sn			1	0.336	ug/l	9.64	5,591.20	1.612E-03	Pulse	0.10	3
Sb			1	0.029	ug/l	20.59	580.03	1.212E-04	Pulse	0.10	3
Ba			1	-0.003	ug/l	-317.64	60.00	1.260E-05	Pulse	0.10	3
Tl			1	0.022	ug/l	8.43	956.73	3.171E-04	Pulse	0.10	3
Pb			1	0.015	ug/l	33.86	2,376.95	7.883E-04	Pulse	0.10	3
Pb			1	0.017	ug/l	106.62	2,050.23	6.795E-04	Pulse	0.10	3
Pb			1	0.020	ug/l	5.48	9,761.66	3.237E-03	Pulse	0.10	3
Na			2	0.684	ug/l	82.77	3,681.58	3.912E-02	Pulse	0.30	3
Mg			2	0.502	ug/l	77.07	368.90	3.912E-03	Pulse	0.30	3
Al			2	1.069	ug/l	61.71	333.34	3.538E-03	Pulse	0.30	3
K			2	1.481	ug/l	113.54	12,338.02	1.312E-01	Pulse	0.30	3
Ca			2	-0.058	ug/l	-541.76	54.44	5.786E-04	Pulse	0.30	3
Ti			2	0.107	ug/l	76.66	17.78	1.897E-04	Pulse	0.30	3
V			2	-0.020	ug/l	-23.32	347.79	3.699E-03	Pulse	0.30	3
Cr			2	0.008	ug/l	41.37	185.32	1.971E-03	Pulse	0.30	3
Mn			2	0.004	ug/l	28.91	115.56	1.229E-03	Pulse	0.30	3
Fe			2	15.393	ug/l	17.71	67,523.98	7.173E-01	Pulse	0.30	3
Co			2	0.006	ug/l	97.06	63.15	6.685E-04	Pulse	0.30	3
Ni			2	-0.004	ug/l	-406.54	717.80	7.633E-03	Pulse	0.30	3
Cu			2	-0.124	ug/l	-9.98	677.80	7.205E-03	Pulse	0.30	3
Zn			2	-0.048	ug/l	-473.63	6,383.54	6.789E-02	Pulse	0.30	3
As			2	0.044	ug/l	43.21	32.67	3.470E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.010	ug/l	46.28	19.98	3.189E-05	Pulse	0.30	3
Sn			2	0.733	ug/l	14.07	2,461.34	3.925E-03	Pulse	0.30	3
Se			3	0.276	ug/l	17.83	22.87	2.676E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,788,935.35	1.10	97.3	Analog	0.10	3
1	Sc		2,503,050.02	1.34	94.5	Analog	0.10	3
1	Ge		495,166.61	1.37	95.2	Pulse	0.10	3
1	Ge		682,312.49	0.96	95.2	Pulse	0.10	3
1	Rh		3,348,813.49	0.77	94.2	Analog	0.10	3
1	In		3,467,583.64	0.59	94.6	Analog	0.10	3
1	Tb		4,792,772.95	1.15	94.6	Analog	0.10	3
1	Ho		4,769,965.76	0.59	94.7	Analog	0.10	3
1	Bi		3,015,761.83	0.74	96.2	Analog	0.10	3
2	Sc		94,046.12	1.05	98.3	Pulse	0.30	3
2	Ge		60,641.03	1.23	98.0	Pulse	0.30	3
2	Ge		91,487.87	1.12	97.9	Pulse	0.30	3
2	Rh		1,653,349.62	0.17	97.7	Analog	0.30	3
2	In		627,004.11	0.40	98.3	Pulse	0.30	3
2	Tb		2,319,458.38	0.77	97.3	Analog	0.30	3
2	Ho		2,391,921.29	0.59	98.5	Analog	0.30	3
2	Bi		1,669,420.80	0.55	97.5	Analog	0.30	3
3	Sc		85,635.42	1.05	95.8	Pulse	0.30	3
3	Ge		56,199.83	1.08	96.0	Pulse	0.30	3
3	Ge		85,431.22	0.37	96.1	Pulse	0.30	3
3	Rh		944,962.81	1.35	96.5	Pulse	0.30	3
3	Tb		1,781,235.28	1.74	96.1	Analog	0.30	3

Quantitation Report

File Name	023SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:33
Sample Name	rinseconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.005	ug/l	-18.13	140.00	5.100E-05	Pulse	0.25	3
B			1	0.906	ug/l	7.11	5,423.24	1.976E-03	Pulse	0.15	3
Ca			1	-0.075	ug/l	-624.37	9,726.57	3.892E-03	Pulse	0.10	3
Sr			1	0.003	ug/l	70.06	566.70	1.715E-04	Pulse	0.10	3
Mo			1	0.010	ug/l	75.17	116.67	3.532E-05	Pulse	0.10	3
Ag			1	0.002	ug/l	80.91	73.34	2.127E-05	Pulse	0.10	3
Sn			1	0.082	ug/l	9.36	2,263.58	6.575E-04	Pulse	0.10	3
Sb			1	0.011	ug/l	47.87	276.68	5.820E-05	Pulse	0.10	3
Ba			1	0.044	ug/l	35.02	350.02	7.360E-05	Pulse	0.10	3
Tl			1	0.003	ug/l	11.83	223.34	7.460E-05	Pulse	0.10	3
Pb			1	0.008	ug/l	208.91	2,263.59	7.567E-04	Pulse	0.10	3
Pb			1	0.008	ug/l	100.95	1,940.21	6.482E-04	Pulse	0.10	3
Pb			1	0.008	ug/l	90.03	9,074.79	3.033E-03	Pulse	0.10	3
Na			2	0.729	ug/l	24.87	3,583.78	3.952E-02	Pulse	0.30	3
Mg			2	0.177	ug/l	70.14	230.01	2.538E-03	Pulse	0.30	3
Al			2	0.398	ug/l	105.51	231.12	2.546E-03	Pulse	0.30	3
K			2	2.846	ug/l	12.56	12,257.92	1.352E-01	Pulse	0.30	3
Ca			2	0.932	ug/l	41.60	66.66	7.350E-04	Pulse	0.30	3
Ti			2	0.025	ug/l	155.37	8.89	9.824E-05	Pulse	0.30	3
V			2	-0.025	ug/l	-36.91	317.79	3.505E-03	Pulse	0.30	3
Cr			2	0.001	ug/l	297.24	147.35	1.624E-03	Pulse	0.30	3
Mn			2	0.007	ug/l	102.85	117.78	1.299E-03	Pulse	0.30	3
Fe			2	3.378	ug/l	22.47	21,590.00	2.381E-01	Pulse	0.30	3
Co			2	0.002	ug/l	85.60	33.27	3.672E-04	Pulse	0.30	3
Ni			2	0.011	ug/l	469.43	722.25	7.966E-03	Pulse	0.30	3
Cu			2	-0.115	ug/l	-6.28	702.24	7.746E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Zn			2	0.039	ug/l	193.94	6,229.04	6.869E-02	Pulse	0.30	3
As			2	0.008	ug/l	54.75	15.33	1.690E-04	Pulse	1.00	3
Cd			2	0.003	ug/l	194.17	8.89	1.450E-05	Pulse	0.30	3
Sn			2	0.192	ug/l	18.57	880.04	1.429E-03	Pulse	0.30	3
Se			3	0.242	ug/l	100.22	20.53	2.382E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,745,682.80	0.81	95.8	Analog	0.10	3
1	Sc		2,499,705.75	1.41	94.4	Analog	0.10	3
1	Ge		488,967.77	0.13	94.0	Pulse	0.10	3
1	Ge		675,176.58	0.40	94.2	Pulse	0.10	3
1	Rh		3,303,530.16	0.06	92.9	Analog	0.10	3
1	In		3,442,994.21	1.08	93.9	Analog	0.10	3
1	Tb		4,756,647.74	0.38	93.9	Analog	0.10	3
1	Ho		4,782,887.95	0.88	95.0	Analog	0.10	3
1	Bi		2,993,194.75	1.07	95.4	Analog	0.10	3
2	Sc		90,685.08	0.71	94.8	Pulse	0.30	3
2	Ge		60,160.58	0.49	97.2	Pulse	0.30	3
2	Ge		91,029.11	1.19	97.4	Pulse	0.30	3
2	Rh		1,631,265.21	0.45	96.4	Analog	0.30	3
2	In		615,505.13	0.77	96.5	Pulse	0.30	3
2	Tb		2,312,992.96	0.29	97.1	Analog	0.30	3
2	Ho		2,337,944.91	0.84	96.3	Analog	0.30	3
2	Bi		1,647,219.94	0.71	96.2	Analog	0.30	3
3	Sc		83,621.34	0.33	93.5	Pulse	0.30	3
3	Ge		56,557.91	1.50	96.6	Pulse	0.30	3
3	Ge		85,913.26	0.58	96.6	Pulse	0.30	3
3	Rh		957,666.87	1.75	97.8	Pulse	0.30	3
3	Tb		1,809,966.74	1.91	97.6	Analog	0.30	3

Quantitation Report

File Name	024_QC3.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:36
Sample Name	emptyconf
Sample Type	Sample
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	4.922	ug/l	27.46	164.00	1.461E-02	Pulse	0.25	3
B			1	167.585	ug/l	12.70	3,669.38	3.261E-01	Pulse	0.15	3
Ca			1	1021.049	ug/l	6.33	8,949.40	3.464E-01	Pulse	0.10	3
Sr			1	15.687	ug/l	10.51	360.02	1.948E-01	Pulse	0.10	3
Mo			1	13.983	ug/l	31.67	63.33	3.358E-02	Pulse	0.10	3
Ag			1	6.212	ug/l	4.16	70.00	3.625E-02	Pulse	0.10	3
Sn			1	130.156	ug/l	4.11	946.74	4.895E-01	Pulse	0.10	3
Sb			1	12.105	ug/l	21.37	136.67	4.057E-02	Pulse	0.10	3
Ba			1	14.305	ug/l	65.32	60.00	1.854E-02	Pulse	0.10	3
Tl			1	2.664	ug/l	13.85	330.02	3.424E-02	Pulse	0.10	3
Pb			1	5.520	ug/l	22.19	243.34	2.529E-02	Pulse	0.10	3
Pb			1	6.462	ug/l	15.60	243.35	2.518E-02	Pulse	0.10	3
Pb			1	5.556	ug/l	17.27	966.72	1.004E-01	Pulse	0.10	3
Na			2	605.484	ug/l	11.99	3,274.81	5.324E+00	Pulse	0.30	3
Mg			2	81.820	ug/l	33.43	216.67	3.477E-01	Pulse	0.30	3
Al			2	145.072	ug/l	31.49	132.23	2.163E-01	Pulse	0.30	3
K			2	6763.039	ug/l	15.14	12,200.12	1.991E+01	Pulse	0.30	3
Ca			2	410.614	ug/l	11.28	41.11	6.541E-02	Pulse	0.30	3
Ti			2	4.442	ug/l	93.85	3.33	5.004E-03	Pulse	0.30	3
V			2	11.893	ug/l	18.68	276.67	4.521E-01	Pulse	0.30	3
Cr			2	4.485	ug/l	13.32	135.47	2.194E-01	Pulse	0.30	3
Mn			2	3.637	ug/l	34.30	61.11	9.621E-02	Pulse	0.30	3
Fe			2	180.503	ug/l	12.61	4,524.02	7.303E+00	Pulse	0.30	3
Co			2	0.494	ug/l	82.79	24.43	3.990E-02	Pulse	0.30	3
Ni			2	5.375	ug/l	2.27	75.56	1.217E-01	Pulse	0.30	3
Cu			2	5.143	ug/l	32.29	188.89	3.128E-01	Pulse	0.30	3
Zn			2	127.100	ug/l	12.91	763.36	1.241E+00	Pulse	0.30	3
As			2	3.803	ug/l	40.28	12.33	1.910E-02	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	5.825	ug/l	99.43	4.44	1.320E-02	Pulse	0.30	3
Sn			2	150.644	ug/l	14.39	186.67	6.963E-01	Pulse	0.30	3
Se			3	18.036	ug/l	35.78	2.40	1.586E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		11,312.55	6.29	0.4	Pulse	0.10	3
1	Sc		25,931.17	8.55	1.0	Pulse	0.10	3
1	Ge		2,877.04	7.82	0.6	Pulse	0.10	3
1	Ge		1,656.83	5.21	0.2	Pulse	0.10	3
1	Rh		1,863.53	11.71	0.1	Pulse	0.10	3
1	In		1,933.29	4.24	0.1	Pulse	0.10	3
1	Tb		3,343.83	8.10	0.1	Pulse	0.10	3
1	Ho		3,233.81	8.09	0.1	Pulse	0.10	3
1	Bi		9,693.51	6.25	0.3	Pulse	0.10	3
2	Sc		622.24	15.00	0.7	Pulse	0.30	3
2	Ge		134.45	17.42	0.2	Pulse	0.30	3
2	Ge		157.78	13.41	0.2	Pulse	0.30	3
2	Rh		541.13	35.84	0.0	Pulse	0.30	3
2	In		276.47	33.94	0.0	Pulse	0.30	3
2	Tb		994.49	27.64	0.0	Pulse	0.30	3
2	Ho		1,020.05	26.13	0.0	Pulse	0.30	3
2	Bi		4,191.75	9.07	0.2	Pulse	0.30	3
3	Sc		366.67	6.30	0.4	Pulse	0.30	3
3	Ge		105.56	19.30	0.2	Pulse	0.30	3
3	Ge		148.89	9.05	0.2	Pulse	0.30	3
3	Rh		198.90	13.55	0.0	Pulse	0.30	3
3	Tb		456.68	10.03	0.0	Pulse	0.30	3

Quantitation Report

File Name	025_QC3.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:49
Sample Name	CRI
Sample Type	QC3
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.478	ug/l	3.59	4,044.53	1.478E-03	Pulse	0.25	3
B			1	23.687	ug/l	0.54	126,614.86	4.628E-02	Pulse	0.15	3
Ca			1	240.725	ug/l	1.75	208,515.16	8.465E-02	Pulse	0.10	3
Sr			1	4.748	ug/l	1.30	192,381.99	5.904E-02	Pulse	0.10	3
Mo			1	0.930	ug/l	1.44	7,315.28	2.245E-03	Pulse	0.10	3
Ag			1	0.443	ug/l	6.09	8,829.42	2.593E-03	Pulse	0.10	3
Sn			1	4.577	ug/l	0.76	59,754.44	1.755E-02	Pulse	0.10	3
Sb			1	1.790	ug/l	3.38	28,279.63	6.019E-03	Pulse	0.10	3
Ba			1	0.933	ug/l	6.28	5,754.64	1.225E-03	Pulse	0.10	3
Tl			1	0.469	ug/l	2.52	17,854.72	6.063E-03	Pulse	0.10	3
Pb			1	0.468	ug/l	5.60	8,252.62	2.802E-03	Pulse	0.10	3
Pb			1	0.457	ug/l	6.04	6,938.57	2.356E-03	Pulse	0.10	3
Pb			1	0.467	ug/l	2.86	32,642.21	1.108E-02	Pulse	0.10	3
Na			2	233.788	ug/l	2.16	202,751.34	2.076E+00	Pulse	0.30	3
Mg			2	236.541	ug/l	1.21	97,836.99	1.002E+00	Pulse	0.30	3
Al			2	25.732	ug/l	2.28	3,904.94	3.998E-02	Pulse	0.30	3
K			2	233.583	ug/l	2.13	79,100.90	8.100E-01	Pulse	0.30	3
Ca			2	257.562	ug/l	2.09	4,028.31	4.125E-02	Pulse	0.30	3
Ti			2	1.003	ug/l	13.78	115.56	1.184E-03	Pulse	0.30	3
V			2	0.952	ug/l	3.69	3,934.96	4.030E-02	Pulse	0.30	3
Cr			2	0.961	ug/l	1.85	4,713.91	4.825E-02	Pulse	0.30	3
Mn			2	0.959	ug/l	6.14	2,558.02	2.621E-02	Pulse	0.30	3
Fe			2	27.943	ug/l	1.16	118,969.36	1.218E+00	Pulse	0.30	3
Co			2	0.472	ug/l	3.51	3,720.15	3.810E-02	Pulse	0.30	3
Ni			2	0.934	ug/l	11.52	2,688.03	2.752E-02	Pulse	0.30	3
Cu			2	1.743	ug/l	5.71	11,282.87	1.156E-01	Pulse	0.30	3
Zn			2	4.749	ug/l	5.78	10,951.55	1.121E-01	Pulse	0.30	3
As			2	0.461	ug/l	6.88	237.00	2.427E-03	Pulse	1.00	3
Cd			2	0.516	ug/l	4.17	709.60	1.177E-03	Pulse	0.30	3
Sn			2	5.153	ug/l	1.42	14,678.07	2.434E-02	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.598	ug/l	2.76	44.33	5.508E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,736,055.09	0.53	95.5	Analog	0.10	3
1	Sc		2,464,169.03	3.45	93.0	Analog	0.10	3
1	Ge		469,790.92	0.99	90.4	Pulse	0.10	3
1	Ge		646,018.57	0.69	90.2	Pulse	0.10	3
1	Rh		3,258,786.62	0.35	91.6	Analog	0.10	3
1	In		3,405,486.54	0.84	92.9	Analog	0.10	3
1	Tb		4,698,539.93	0.21	92.8	Analog	0.10	3
1	Ho		4,693,192.85	1.38	93.2	Analog	0.10	3
1	Bi		2,945,058.50	0.38	93.9	Analog	0.10	3
2	Sc		97,678.58	1.81	102.1	Pulse	0.30	3
2	Ge		58,336.09	0.39	94.2	Pulse	0.30	3
2	Ge		88,079.80	1.00	94.3	Pulse	0.30	3
2	Rh		1,623,462.88	1.29	95.9	Analog	0.30	3
2	In		603,096.87	1.12	94.5	Pulse	0.30	3
2	Tb		2,284,690.19	0.35	95.9	Analog	0.30	3
2	Ho		2,343,130.12	0.32	96.5	Analog	0.30	3
2	Bi		1,640,323.76	1.57	95.8	Analog	0.30	3
3	Sc		90,589.31	0.33	101.3	Pulse	0.30	3
3	Ge		52,525.59	0.35	89.7	Pulse	0.30	3
3	Ge		80,500.90	1.09	90.6	Pulse	0.30	3
3	Rh		879,003.25	1.54	89.7	Pulse	0.30	3
3	Tb		1,726,778.37	1.02	93.1	Analog	0.30	3

Quantitation Report

File Name	026_QC4.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:53
Sample Name	ICSA
Sample Type	QC4
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.003	ug/l	-157.60	141.33	5.733E-05	Pulse	0.25	3
B			1	2.152	ug/l	5.28	10,852.61	4.398E-03	Pulse	0.15	3
Ca			1	85717.337	ug/l	1.83	71,969,658.92	2.875E+01	Analog	0.10	3
Sr			1	2074.597	ug/l	1.36	69,810,417.29	2.574E+01	Analog	0.10	3
Mo			1	2073.510	ug/l	1.33	13,502,866.47	4.979E+00	Analog	0.10	3
Ag			1	0.025	ug/l	26.01	416.69	1.542E-04	Pulse	0.10	3
Sn			1	1983.905	ug/l	0.71	20,158,432.20	7.456E+00	Analog	0.10	3
Sb			1	0.079	ug/l	4.16	1,263.43	2.864E-04	Pulse	0.10	3
Ba			1	0.615	ug/l	8.23	3,587.22	8.130E-04	Pulse	0.10	3
Tl			1	0.007	ug/l	28.36	330.02	1.318E-04	Pulse	0.10	3
Pb			1	0.179	ug/l	3.85	3,797.28	1.519E-03	Pulse	0.10	3
Pb			1	0.148	ug/l	8.87	2,953.74	1.181E-03	Pulse	0.10	3
Pb			1	0.161	ug/l	4.34	14,276.50	5.710E-03	Pulse	0.10	3
Na			2	81631.850	ug/l	4.35	69,886,930.56	7.134E+02	Analog	0.30	3
Mg			2	81660.983	ug/l	4.42	33,817,801.99	3.452E+02	Analog	0.30	3
Al			2	82859.061	ug/l	3.96	11,994,154.80	1.224E+02	Analog	0.30	3
K			2	83068.630	ug/l	3.66	23,814,803.50	2.431E+02	Analog	0.30	3
Ca			2	94180.688	ug/l	3.28	1,456,928.83	1.487E+01	Analog	0.30	3
Ti			2	1669.177	ug/l	2.68	181,690.52	1.854E+00	Pulse	0.30	3
V			2	-0.005	ug/l	-622.01	415.57	4.259E-03	Pulse	0.30	3
Cr			2	0.326	ug/l	12.95	1,703.87	1.738E-02	Pulse	0.30	3
Mn			2	0.409	ug/l	12.38	1,156.72	1.182E-02	Pulse	0.30	3
Fe			2	81292.387	ug/l	3.98	317,687,667.38	3.243E+03	Analog	0.30	3
Co			2	0.036	ug/l	15.23	303.41	3.100E-03	Pulse	0.30	3
Ni			2	0.646	ug/l	7.04	2,097.94	2.141E-02	Pulse	0.30	3
Cu			2	-0.047	ug/l	-16.42	1,144.50	1.167E-02	Pulse	0.30	3
Zn			2	1.545	ug/l	24.81	8,090.98	8.259E-02	Pulse	0.30	3
As			2	0.059	ug/l	22.75	41.33	4.230E-04	Pulse	1.00	3
Cd			2	-0.172	ug/l	-21.66	-173.81	-3.811E-04	Pulse	0.30	3
Sn			2	2270.986	ug/l	1.16	4,780,617.87	1.049E+01	Analog	0.30	3
Se			3	0.174	ug/l	10.24	12.73	1.785E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,468,325.16	1.33	86.1	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,503,842.67	2.26	94.5	Analog	0.10	3
1	Ge		446,124.41	0.13	85.8	Pulse	0.10	3
1	Ge		581,278.42	0.92	81.1	Pulse	0.10	3
1	Rh		2,712,432.35	1.13	76.3	Analog	0.10	3
1	In		2,703,820.41	0.94	73.7	Analog	0.10	3
1	Tb		4,412,132.23	0.32	87.1	Analog	0.10	3
1	Ho		4,458,219.83	1.36	88.6	Analog	0.10	3
1	Bi		2,500,755.69	1.95	79.7	Analog	0.10	3
2	Sc		98,053.08	3.27	102.5	Pulse	0.30	3
2	Ge		53,080.49	1.02	85.7	Pulse	0.30	3
2	Ge		79,078.43	1.14	84.6	Pulse	0.30	3
2	Rh		1,313,071.48	1.89	77.6	Analog	0.30	3
2	In		455,811.15	0.55	71.4	Pulse	0.30	3
2	Tb		2,094,128.60	0.19	87.9	Analog	0.30	3
2	Ho		2,146,809.22	0.83	88.4	Analog	0.30	3
2	Bi		1,342,528.56	1.41	78.4	Analog	0.30	3
3	Sc		90,762.18	0.18	101.5	Pulse	0.30	3
3	Ge		48,235.62	0.81	82.4	Pulse	0.30	3
3	Ge		71,273.98	1.42	80.2	Pulse	0.30	3
3	Rh		733,986.15	0.34	74.9	Pulse	0.30	3
3	Tb		1,597,978.79	1.61	86.2	Analog	0.30	3

Quantitation Report

File Name	027_QC5.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 15:56
Sample Name	ICSAB
Sample Type	QC5
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.006	ug/l	-49.17	110.67	4.774E-05	Pulse	0.25	3
B			1	49.366	ug/l	2.99	222,868.41	9.621E-02	Pulse	0.15	3
Ca			1	92649.362	ug/l	0.75	68,861,677.31	3.108E+01	Analog	0.10	3
Sr			1	2085.835	ug/l	1.10	67,879,727.32	2.588E+01	Analog	0.10	3
Mo			1	2102.017	ug/l	1.27	13,238,372.72	5.047E+00	Analog	0.10	3
Ag			1	20.170	ug/l	0.56	304,838.62	1.177E-01	Pulse	0.10	3
Sn			1	2006.503	ug/l	0.23	19,535,413.46	7.541E+00	Analog	0.10	3
Sb			1	0.083	ug/l	5.16	1,263.44	2.989E-04	Pulse	0.10	3
Ba			1	0.621	ug/l	2.22	3,467.19	8.201E-04	Pulse	0.10	3
Tl			1	0.009	ug/l	48.94	360.02	1.491E-04	Pulse	0.10	3
Pb			1	0.207	ug/l	4.19	3,960.67	1.644E-03	Pulse	0.10	3
Pb			1	0.209	ug/l	8.21	3,403.85	1.413E-03	Pulse	0.10	3
Pb			1	0.211	ug/l	4.60	15,867.26	6.585E-03	Pulse	0.10	3
Na			2	90145.746	ug/l	3.34	66,643,706.24	7.878E+02	Analog	0.30	3
Mg			2	90006.065	ug/l	3.61	32,186,516.50	3.805E+02	Analog	0.30	3
Al			2	90856.402	ug/l	3.33	11,356,159.27	1.342E+02	Analog	0.30	3
K			2	91362.547	ug/l	3.87	22,611,666.88	2.673E+02	Analog	0.30	3
Ca			2	104007.649	ug/l	3.50	1,389,020.22	1.642E+01	Analog	0.30	3
Ti			2	1870.602	ug/l	2.82	175,771.03	2.078E+00	Pulse	0.30	3
V			2	20.080	ug/l	2.43	64,324.10	7.603E-01	Pulse	0.30	3
Cr			2	19.553	ug/l	2.93	80,463.17	9.511E-01	Pulse	0.30	3
Mn			2	19.387	ug/l	3.48	42,966.97	5.079E-01	Pulse	0.30	3
Fe			2	89984.660	ug/l	3.06	303,658,467.93	3.589E+03	Analog	0.30	3
Co			2	18.501	ug/l	1.83	125,684.70	1.485E+00	Pulse	0.30	3
Ni			2	18.675	ug/l	2.59	34,153.27	4.037E-01	Pulse	0.30	3
Cu			2	17.347	ug/l	3.88	86,364.19	1.021E+00	Pulse	0.30	3
Zn			2	22.721	ug/l	6.06	23,510.36	2.780E-01	Pulse	0.30	3
As			2	19.016	ug/l	3.71	8,034.00	9.498E-02	Pulse	1.00	3
Cd			2	21.525	ug/l	1.87	21,962.59	4.874E-02	Pulse	0.30	3
Sn			2	2219.225	ug/l	1.99	4,618,326.48	1.025E+01	Analog	0.30	3
Se			3	21.553	ug/l	1.46	1,356.26	1.895E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,316,823.16	0.79	80.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,216,069.86	2.00	83.7	Analog	0.10	3
1	Ge		431,060.40	1.27	82.9	Pulse	0.10	3
1	Ge		558,219.08	0.98	77.9	Pulse	0.10	3
1	Rh		2,622,983.51	0.42	73.8	Analog	0.10	3
1	In		2,590,592.22	1.00	70.7	Analog	0.10	3
1	Tb		4,226,998.90	1.17	83.5	Analog	0.10	3
1	Ho		4,246,660.14	0.74	84.3	Analog	0.10	3
1	Bi		2,409,416.74	0.98	76.8	Analog	0.10	3
2	Sc		84,641.23	2.58	88.5	Pulse	0.30	3
2	Ge		51,513.34	0.24	83.2	Pulse	0.30	3
2	Ge		76,331.99	0.41	81.7	Pulse	0.30	3
2	Rh		1,246,785.85	2.08	73.6	Mix	0.30	3
2	In		450,679.17	1.53	70.6	Pulse	0.30	3
2	Tb		2,042,800.89	0.52	85.7	Analog	0.30	3
2	Ho		2,094,122.56	0.45	86.2	Analog	0.30	3
2	Bi		1,323,781.72	1.40	77.3	Analog	0.30	3
3	Sc		76,800.75	1.17	85.9	Pulse	0.30	3
3	Ge		47,324.16	1.19	80.8	Pulse	0.30	3
3	Ge		71,577.25	0.53	80.5	Pulse	0.30	3
3	Rh		736,160.65	0.27	75.2	Pulse	0.30	3
3	Tb		1,589,959.66	0.59	85.7	Analog	0.30	3

Quantitation Report

File Name	028SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 16:06
Sample Name	mp34484-mb1conf
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	-0.076	ug/l	-12.63	53.33	2.158E-05	Pulse	0.25	3
B			1	2.012	ug/l	12.91	2,462.47	9.961E-04	Pulse	0.15	3
Ca			1	-2.910	ug/l	-116.95	8,365.74	3.722E-03	Pulse	0.10	3
Sr			1	0.065	ug/l	22.55	883.39	2.897E-04	Pulse	0.10	3
Mo			1	1.944	ug/l	8.73	2,880.38	9.448E-04	Pulse	0.10	3
Ag			1	0.022	ug/l	49.19	113.34	3.541E-05	Pulse	0.10	3
Sn			1	1.670	ug/l	20.06	5,131.07	1.604E-03	Pulse	0.10	3
Sb			1	0.024	ug/l	101.11	170.01	3.838E-05	Pulse	0.10	3
Ba			1	0.170	ug/l	13.02	266.68	6.023E-05	Pulse	0.10	3
Tl			1	-0.003	ug/l	-414.57	80.00	2.900E-05	Pulse	0.10	3
Pb			1	0.012	ug/l	389.61	2,023.56	7.327E-04	Pulse	0.10	3
Pb			1	0.036	ug/l	124.59	1,776.84	6.437E-04	Pulse	0.10	3
Pb			1	0.026	ug/l	95.17	8,214.55	2.975E-03	Pulse	0.10	3
Na			2	20.557	ug/l	7.26	5,762.14	6.908E-02	Pulse	0.30	3
Mg			2	8.165	ug/l	4.88	725.58	8.692E-03	Pulse	0.30	3
Al			2	62.704	ug/l	18.67	1,712.33	2.049E-02	Pulse	0.30	3
K			2	16.170	ug/l	38.81	11,370.63	1.363E-01	Pulse	0.30	3
Ca			2	10.809	ug/l	77.89	77.78	9.291E-04	Pulse	0.30	3
Ti			2	10.242	ug/l	15.98	195.56	2.345E-03	Pulse	0.30	3
V			2	-0.164	ug/l	-32.88	268.90	3.218E-03	Pulse	0.30	3
Cr			2	0.017	ug/l	174.18	144.72	1.733E-03	Pulse	0.30	3
Mn			2	0.041	ug/l	141.10	112.22	1.342E-03	Pulse	0.30	3
Fe			2	300.052	ug/l	13.99	208,592.74	2.497E+00	Pulse	0.30	3
Co			2	-0.004	ug/l	-56.75	12.77	1.527E-04	Pulse	0.30	3
Ni			2	-0.036	ug/l	-301.47	632.24	7.572E-03	Pulse	0.30	3
Cu			2	-0.607	ug/l	-9.66	615.58	7.377E-03	Pulse	0.30	3
Zn			2	-0.761	ug/l	-195.62	5,582.13	6.693E-02	Pulse	0.30	3
As			2	-0.053	ug/l	-103.38	6.33	7.569E-05	Pulse	1.00	3
Cd			2	0.010	ug/l	70.11	7.54	1.333E-05	Pulse	0.30	3
Sn			2	3.830	ug/l	19.47	2,306.87	4.079E-03	Pulse	0.30	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Se			3	0.181	ug/l	25.45	4.40	5.717E-05	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,471,871.01	0.21	86.3	Analog	0.10	3
1	Sc		2,249,229.03	1.89	84.9	Analog	0.10	3
1	Ge		433,604.41	0.82	83.4	Pulse	0.10	3
1	Ge		604,058.60	0.98	84.3	Pulse	0.10	3
1	Rh		3,047,552.56	0.96	85.7	Analog	0.10	3
1	In		3,199,314.79	0.83	87.3	Analog	0.10	3
1	Tb		4,427,747.43	0.19	87.4	Analog	0.10	3
1	Ho		4,429,382.12	0.21	88.0	Analog	0.10	3
1	Bi		2,760,795.06	0.83	88.0	Analog	0.10	3
2	Sc		83,444.26	1.76	87.2	Pulse	0.30	3
2	Ge		53,980.06	0.99	87.2	Pulse	0.30	3
2	Ge		81,496.77	0.31	87.2	Pulse	0.30	3
2	Rh		1,514,209.91	1.25	89.4	Analog	0.30	3
2	In		565,308.56	0.79	88.6	Pulse	0.30	3
2	Tb		2,162,149.98	0.73	90.7	Analog	0.30	3
2	Ho		2,220,614.70	0.55	91.4	Analog	0.30	3
2	Bi		1,544,731.85	0.45	90.2	Analog	0.30	3
3	Sc		76,627.07	0.31	85.7	Pulse	0.30	3
3	Ge		50,668.44	1.50	86.5	Pulse	0.30	3
3	Ge		76,994.93	0.50	86.6	Pulse	0.30	3
3	Rh		847,768.91	0.68	86.6	Pulse	0.30	3
3	Tb		1,673,233.96	0.50	90.2	Analog	0.30	3

Quantitation Report

File Name	029SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 16:10
Sample Name	MP34484-B1conf
Sample Type	Sample
Comment	
Prep Dilution	5.000
Auto Dilution	N/A
Total Dilution	5.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	195.672	ug/l	1.24	288,393.01	1.157E-01	Pulse	0.25	3
B			1	192.667	ug/l	1.23	187,311.25	7.514E-02	Pulse	0.15	3
Ca			1	10325.196	ug/l	0.37	1,607,348.78	6.965E-01	Analog	0.10	3
Sr			1	202.413	ug/l	0.43	1,532,083.78	5.024E-01	Analog	0.10	3
Mo			1	193.404	ug/l	0.67	283,261.01	9.289E-02	Pulse	0.10	3
Ag			1	87.236	ug/l	0.98	322,437.12	1.018E-01	Pulse	0.10	3
Sn			1	205.537	ug/l	1.02	490,450.91	1.548E-01	Pulse	0.10	3
Sb			1	188.092	ug/l	0.89	567,862.86	1.260E-01	Pulse	0.10	3
Ba			1	187.177	ug/l	1.55	218,495.35	4.850E-02	Pulse	0.10	3
Tl			1	198.631	ug/l	0.83	1,416,077.58	5.102E-01	Analog	0.10	3
Pb			1	192.062	ug/l	0.54	476,461.57	1.717E-01	Pulse	0.10	3
Pb			1	190.124	ug/l	0.55	402,927.20	1.452E-01	Pulse	0.10	3
Pb			1	192.906	ug/l	0.12	1,887,632.19	6.801E-01	Pulse	0.10	3
Na			2	10543.246	ug/l	2.16	1,576,504.10	1.846E+01	Analog	0.30	3
Mg			2	10063.720	ug/l	1.84	726,819.36	8.511E+00	Pulse	0.30	3
Al			2	9740.382	ug/l	1.29	245,994.52	2.880E+00	Pulse	0.30	3
K			2	9934.961	ug/l	1.48	507,143.26	5.938E+00	Pulse	0.30	3
Ca			2	11008.657	ug/l	2.29	29,733.26	3.482E-01	Pulse	0.30	3
Ti			2	211.575	ug/l	2.98	4,019.43	4.707E-02	Pulse	0.30	3
V			2	201.729	ug/l	1.87	130,066.45	1.523E+00	Pulse	0.30	3
Cr			2	200.426	ug/l	1.38	166,381.31	1.948E+00	Pulse	0.30	3
Mn			2	200.290	ug/l	2.82	89,519.50	1.048E+00	Pulse	0.30	3
Fe			2	10411.644	ug/l	1.96	7,102,228.61	8.316E+01	Analog	0.30	3
Co			2	199.006	ug/l	1.59	272,882.69	3.195E+00	Pulse	0.30	3
Ni			2	198.562	ug/l	1.25	72,573.30	8.497E-01	Pulse	0.30	3
Cu			2	198.277	ug/l	1.11	197,759.32	2.315E+00	Pulse	0.30	3
Zn			2	217.035	ug/l	0.97	40,042.17	4.688E-01	Pulse	0.30	3
As			2	199.047	ug/l	1.10	16,969.49	1.987E-01	Pulse	1.00	3
Cd			2	196.534	ug/l	1.04	51,379.13	8.900E-02	Pulse	0.30	3
Sn			2	219.716	ug/l	0.97	117,466.79	2.035E-01	Pulse	0.30	3
Se			3	500.232	ug/l	0.30	6,978.69	8.787E-02	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,492,660.84	1.08	87.0	Analog	0.10	3
1	Sc		2,307,827.62	0.52	87.1	Analog	0.10	3
1	Ge		447,169.63	1.59	86.0	Pulse	0.10	3

Quantitation Report

1	Ge		621,124.56	1.18	86.7	Pulse	0.10	3
1	Rh		3,049,539.64	0.16	85.8	Analog	0.10	3
1	In		3,167,891.58	1.09	86.4	Analog	0.10	3
1	Tb		4,505,443.48	0.31	89.0	Analog	0.10	3
1	Ho		4,495,887.12	0.25	89.3	Analog	0.10	3
1	Bi		2,775,443.19	0.87	88.5	Analog	0.10	3
2	Sc		85,414.98	1.40	89.3	Pulse	0.30	3
2	Ge		56,008.94	0.83	90.5	Pulse	0.30	3
2	Ge		84,419.02	1.20	90.3	Pulse	0.30	3
2	Rh		1,496,954.35	0.74	88.4	Analog	0.30	3
2	In		577,326.72	1.12	90.5	Pulse	0.30	3
2	Tb		2,205,666.86	0.61	92.6	Analog	0.30	3
2	Ho		2,247,268.94	0.12	92.5	Analog	0.30	3
2	Bi		1,527,118.45	0.10	89.2	Analog	0.30	3
3	Sc		76,956.32	0.81	86.0	Pulse	0.30	3
3	Ge		51,925.64	0.36	88.7	Pulse	0.30	3
3	Ge		79,425.60	0.80	89.3	Pulse	0.30	3
3	Rh		865,991.35	0.33	88.4	Pulse	0.30	3
3	Tb		1,692,634.83	0.80	91.3	Analog	0.30	3

Quantitation Report

File Name	030SMPL.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 16:13
Sample Name	JD49400-1 4
Sample Type	Sample
Comment	
Prep Dilution	10.000
Auto Dilution	N/A
Total Dilution	10.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.816	ug/l	7.73	801.37	3.078E-04	Pulse	0.25	3
B			1	17.236	ug/l	1.47	9,282.77	3.565E-03	Pulse	0.15	3
Ca			1	95362.634	ug/l	0.19	7,405,876.97	3.202E+00	Analog	0.10	3
Sr			1	72.947	ug/l	0.51	283,228.26	9.064E-02	Pulse	0.10	3
Mo			1	2.785	ug/l	10.91	2,123.56	6.797E-04	Pulse	0.10	3
Ag			1	0.206	ug/l	20.21	426.69	1.302E-04	Pulse	0.10	3
Sn			1	12.253	ug/l	4.44	16,225.53	4.953E-03	Pulse	0.10	3
Sb			1	0.812	ug/l	28.86	1,350.12	2.943E-04	Pulse	0.10	3
Ba			1	225.608	ug/l	1.05	134,099.26	2.923E-02	Pulse	0.10	3
Tl			1	0.383	ug/l	2.92	1,526.82	5.275E-04	Pulse	0.10	3
Pb			1	32.584	ug/l	2.61	44,057.06	1.522E-02	Pulse	0.10	3
Pb			1	29.937	ug/l	3.02	34,721.71	1.200E-02	Pulse	0.10	3
Pb			1	30.884	ug/l	1.62	165,245.51	5.710E-02	Pulse	0.10	3
Na			2	419.384	ug/l	3.44	33,553.33	3.996E-01	Pulse	0.30	3
Mg			2	28081.575	ug/l	0.60	996,929.30	1.187E+01	Pulse	0.30	3
Al			2	24423.296	ug/l	0.38	303,156.18	3.611E+00	Pulse	0.30	3
K			2	3039.391	ug/l	1.05	85,284.50	1.016E+00	Pulse	0.30	3
Ca			2	99700.962	ug/l	1.47	132,204.46	1.575E+00	Pulse	0.30	3
Ti			2	167.248	ug/l	2.57	1,565.65	1.865E-02	Pulse	0.30	3
V			2	239.326	ug/l	0.05	76,008.70	9.052E-01	Pulse	0.30	3
Cr			2	28.435	ug/l	1.52	11,726.09	1.396E-01	Pulse	0.30	3
Mn			2	736.190	ug/l	0.92	161,685.06	1.926E+00	Pulse	0.30	3
Fe			2	39539.448	ug/l	0.56	13,251,148.92	1.578E+02	Analog	0.30	3
Co			2	16.988	ug/l	0.68	11,468.39	1.366E-01	Pulse	0.30	3
Ni			2	113.735	ug/l	1.10	20,896.71	2.489E-01	Pulse	0.30	3
Cu			2	51.716	ug/l	0.63	26,406.85	3.145E-01	Pulse	0.30	3
Zn			2	750.217	ug/l	0.78	63,857.11	7.605E-01	Pulse	0.30	3
As			2	71.496	ug/l	4.66	3,004.95	3.579E-02	Pulse	1.00	3
Cd			2	0.449	ug/l	17.39	65.42	1.102E-04	Pulse	0.30	3
Sn			2	15.334	ug/l	4.03	4,528.48	7.623E-03	Pulse	0.30	3
Se			3	2.338	ug/l	4.37	18.73	2.307E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,603,358.64	1.03	90.8	Analog	0.10	3

Quantitation Report

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Sc		2,312,769.03	0.22	87.3	Analog	0.10	3
1	Ge		459,478.43	0.24	88.4	Pulse	0.10	3
1	Ge		637,617.39	0.88	89.0	Pulse	0.10	3
1	Rh		3,124,973.91	0.53	87.9	Analog	0.10	3
1	In		3,275,972.70	0.22	89.4	Analog	0.10	3
1	Tb		4,587,351.49	0.07	90.6	Analog	0.10	3
1	Ho		4,589,954.20	0.44	91.2	Analog	0.10	3
1	Bi		2,894,029.65	0.52	92.3	Analog	0.10	3
2	Sc		83,964.32	0.43	87.8	Pulse	0.30	3
2	Ge		57,357.08	0.94	92.7	Pulse	0.30	3
2	Ge		86,575.73	0.70	92.7	Pulse	0.30	3
2	Rh		1,535,214.21	0.92	90.7	Analog	0.30	3
2	In		594,160.48	0.79	93.1	Pulse	0.30	3
2	Tb		2,239,436.44	0.14	94.0	Analog	0.30	3
2	Ho		2,284,452.27	0.74	94.1	Analog	0.30	3
2	Bi		1,602,448.23	1.25	93.6	Analog	0.30	3
3	Sc		75,950.85	0.62	84.9	Pulse	0.30	3
3	Ge		53,376.93	1.18	91.2	Pulse	0.30	3
3	Ge		81,177.61	1.15	91.3	Pulse	0.30	3
3	Rh		886,852.22	0.64	90.5	Pulse	0.30	3
3	Tb		1,726,827.29	0.75	93.1	Analog	0.30	3

Quantitation Report

File Name	031_QC2.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 16:17
Sample Name	CCVA
Sample Type	QC2
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	52.297	ug/l	0.56	379,389.47	1.546E-01	Pulse	0.25	3
B			1	100.182	ug/l	1.44	478,603.82	1.950E-01	Pulse	0.15	3
Ca			1	5354.351	ug/l	0.33	4,102,794.21	1.800E+00	Analog	0.10	3
Sr			1	53.112	ug/l	0.21	1,937,905.80	6.591E-01	Analog	0.10	3
Mo			1	53.051	ug/l	0.96	374,571.01	1.274E-01	Pulse	0.10	3
Ag			1	52.107	ug/l	1.06	942,249.93	3.040E-01	Pulse	0.10	3
Sn			1	50.964	ug/l	0.53	594,751.42	1.919E-01	Pulse	0.10	3
Sb			1	52.010	ug/l	2.07	760,238.51	1.743E-01	Pulse	0.10	3
Ba			1	50.886	ug/l	1.20	287,585.09	6.591E-02	Pulse	0.10	3
Tl			1	53.445	ug/l	1.19	1,862,192.89	6.864E-01	Analog	0.10	3
Pb			1	51.582	ug/l	0.79	624,806.54	2.303E-01	Pulse	0.10	3
Pb			1	51.502	ug/l	0.05	532,898.56	1.964E-01	Pulse	0.10	3
Pb			1	52.367	ug/l	0.42	2,501,862.94	9.221E-01	Analog	0.10	3
Na			2	5429.931	ug/l	2.00	4,089,750.53	4.749E+01	Analog	0.30	3
Mg			2	5535.032	ug/l	2.15	2,015,416.24	2.340E+01	Analog	0.30	3
Al			2	5252.966	ug/l	2.39	668,595.25	7.763E+00	Pulse	0.30	3
K			2	5553.319	ug/l	3.33	1,409,493.10	1.637E+01	Analog	0.30	3
Ca			2	5526.382	ug/l	1.89	75,191.71	8.730E-01	Pulse	0.30	3
Ti			2	53.124	ug/l	3.19	5,087.51	5.907E-02	Pulse	0.30	3
V			2	52.844	ug/l	2.75	171,672.27	1.993E+00	Pulse	0.30	3
Cr			2	51.438	ug/l	2.33	215,258.37	2.499E+00	Pulse	0.30	3
Mn			2	51.839	ug/l	2.10	116,815.98	1.356E+00	Pulse	0.30	3
Fe			2	5488.492	ug/l	2.18	18,863,914.80	2.190E+02	Analog	0.30	3
Co			2	51.333	ug/l	1.60	354,927.31	4.121E+00	Pulse	0.30	3
Ni			2	51.021	ug/l	2.71	93,826.94	1.090E+00	Pulse	0.30	3
Cu			2	50.643	ug/l	2.14	254,332.80	2.953E+00	Pulse	0.30	3
Zn			2	52.449	ug/l	2.99	47,559.88	5.523E-01	Pulse	0.30	3
As			2	52.750	ug/l	1.68	22,672.02	2.632E-01	Pulse	1.00	3
Cd			2	50.874	ug/l	1.55	65,678.51	1.152E-01	Pulse	0.30	3
Sn			2	53.052	ug/l	1.78	139,989.40	2.455E-01	Pulse	0.30	3
Se			3	205.255	ug/l	1.47	14,370.83	1.802E-01	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,453,991.07	0.43	85.6	Analog	0.10	3
1	Sc		2,279,816.22	0.80	86.1	Analog	0.10	3
1	Ge		448,070.89	0.23	86.2	Pulse	0.10	3

Quantitation Report

1	Ge		618,237.14	0.49	86.3	Pulse	0.10	3
1	Rh		2,940,258.60	0.42	82.7	Analog	0.10	3
1	In		3,099,823.04	0.94	84.5	Analog	0.10	3
1	Tb		4,363,310.66	0.75	86.2	Analog	0.10	3
1	Ho		4,370,879.62	0.60	86.8	Analog	0.10	3
1	Bi		2,713,228.08	0.56	86.5	Analog	0.10	3
2	Sc		86,145.29	1.74	90.1	Pulse	0.30	3
2	Ge		56,302.24	0.95	90.9	Pulse	0.30	3
2	Ge		84,201.45	1.56	90.1	Pulse	0.30	3
2	Rh		1,442,138.38	1.05	85.2	Analog	0.30	3
2	In		570,208.98	1.48	89.4	Pulse	0.30	3
2	Tb		2,144,695.61	0.84	90.0	Analog	0.30	3
2	Ho		2,196,161.30	0.32	90.4	Analog	0.30	3
2	Bi		1,493,677.79	1.25	87.2	Analog	0.30	3
3	Sc		79,463.61	0.68	88.9	Pulse	0.30	3
3	Ge		52,250.95	1.05	89.2	Pulse	0.30	3
3	Ge		79,736.87	0.96	89.7	Pulse	0.30	3
3	Rh		858,501.44	0.36	87.6	Pulse	0.30	3
3	Tb		1,665,413.44	0.55	89.8	Analog	0.30	3

Quantitation Report

File Name	032BLKV.d
File Path	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Method File	
Method Path	
Acq Time	2022-08-11 16:20
Sample Name	CCB
Sample Type	BlkVrfy
Comment	
Prep Dilution	1.000
Auto Dilution	N/A
Total Dilution	1.000
Operator Name	Metals
Acq Mode	Spectrum
Cal Title	
Cal Type	External Calibration
Last Calib	2022-08-11 21:04
Bkg File	
Bkg Mode	Count Subtraction except for ISTD
Interference File	
FQ Blank File	
VIS Fit	Point to Point

Tune Step	Tune File
1	
2	
3	

FullQuant Table

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Be			1	0.006	ug/l	80.74	214.67	8.446E-05	Pulse	0.25	3
B			1	2.286	ug/l	5.51	11,835.47	4.659E-03	Pulse	0.15	3
Ca			1	-1.088	ug/l	-23.03	8,175.67	3.552E-03	Pulse	0.10	3
Sr			1	0.003	ug/l	52.42	516.70	1.663E-04	Pulse	0.10	3
Mo			1	0.035	ug/l	15.54	293.35	9.443E-05	Pulse	0.10	3
Ag			1	0.007	ug/l	25.52	166.68	5.145E-05	Pulse	0.10	3
Sn			1	0.222	ug/l	23.48	3,833.96	1.184E-03	Pulse	0.10	3
Sb			1	0.032	ug/l	7.83	586.70	1.297E-04	Pulse	0.10	3
Ba			1	0.002	ug/l	55.61	83.33	1.842E-05	Pulse	0.10	3
Tl			1	0.027	ug/l	1.64	1,083.41	3.878E-04	Pulse	0.10	3
Pb			1	0.024	ug/l	79.13	2,316.95	8.297E-04	Pulse	0.10	3
Pb			1	0.031	ug/l	70.11	2,050.21	7.337E-04	Pulse	0.10	3
Pb			1	0.023	ug/l	30.81	9,178.13	3.286E-03	Pulse	0.10	3
Na			2	2.136	ug/l	7.59	4,346.16	5.182E-02	Pulse	0.30	3
Mg			2	1.012	ug/l	5.37	508.90	6.068E-03	Pulse	0.30	3
Al			2	2.029	ug/l	13.49	415.57	4.956E-03	Pulse	0.30	3
K			2	3.019	ug/l	44.69	11,380.65	1.357E-01	Pulse	0.30	3
Ca			2	-0.529	ug/l	-144.72	42.22	5.042E-04	Pulse	0.30	3
Ti			2	0.368	ug/l	88.09	40.00	4.794E-04	Pulse	0.30	3
V			2	-0.041	ug/l	-18.56	245.56	2.927E-03	Pulse	0.30	3
Cr			2	0.003	ug/l	48.99	141.98	1.692E-03	Pulse	0.30	3
Mn			2	0.005	ug/l	116.63	106.67	1.271E-03	Pulse	0.30	3
Fe			2	17.731	ug/l	16.13	67,930.56	8.106E-01	Pulse	0.30	3
Co			2	0.003	ug/l	90.74	36.48	4.350E-04	Pulse	0.30	3
Ni			2	-0.016	ug/l	-170.65	618.91	7.375E-03	Pulse	0.30	3
Cu			2	-0.122	ug/l	-5.10	616.69	7.354E-03	Pulse	0.30	3
Zn			2	-0.034	ug/l	-940.96	5,704.39	6.802E-02	Pulse	0.30	3
As			2	0.031	ug/l	76.34	24.00	2.860E-04	Pulse	1.00	3

Quantitation Report

Element	Mass	ISTD	Tune	Conc	Units	RSD(%)	CPS	Ratio	Det	Time(sec)	Rep
Cd			2	0.009	ug/l	48.73	16.64	2.850E-05	Pulse	0.30	3
Sn			2	0.481	ug/l	9.42	1,610.11	2.761E-03	Pulse	0.30	3
Se			3	0.253	ug/l	15.82	19.47	2.474E-04	Pulse	5.00	3

ISTD Table

Tune	Element	Mass	CPS	RSD(%)	ISTD Recovery%	Det	Time(sec)	Rep
1	Li		2,539,988.18	0.60	88.6	Analog	0.10	3
1	Sc		2,301,470.80	1.26	86.9	Analog	0.10	3
1	Ge		457,492.22	0.23	88.0	Pulse	0.10	3
1	Ge		633,443.38	0.55	88.4	Pulse	0.10	3
1	Rh		3,106,706.93	0.69	87.4	Analog	0.10	3
1	In		3,237,826.78	0.54	88.3	Analog	0.10	3
1	Tb		4,523,171.18	0.15	89.3	Analog	0.10	3
1	Ho		4,527,392.64	0.74	89.9	Analog	0.10	3
1	Bi		2,793,696.83	0.65	89.1	Analog	0.10	3
2	Sc		83,885.18	1.10	87.7	Pulse	0.30	3
2	Ge		55,910.82	0.79	90.3	Pulse	0.30	3
2	Ge		85,055.40	0.96	91.0	Pulse	0.30	3
2	Rh		1,516,385.95	1.12	89.6	Analog	0.30	3
2	In		583,038.09	0.66	91.4	Pulse	0.30	3
2	Tb		2,199,931.16	0.69	92.3	Analog	0.30	3
2	Ho		2,223,230.88	0.32	91.5	Analog	0.30	3
2	Bi		1,549,692.37	0.70	90.5	Analog	0.30	3
3	Sc		77,189.81	1.27	86.3	Pulse	0.30	3
3	Ge		51,387.29	1.00	87.8	Pulse	0.30	3
3	Ge		78,711.10	0.61	88.5	Pulse	0.30	3
3	Rh		876,715.62	1.05	89.5	Pulse	0.30	3
3	Tb		1,667,693.62	1.07	89.9	Analog	0.30	3

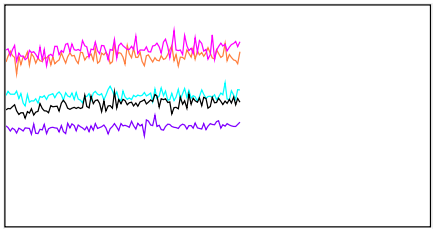
NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Current Signal

Operator Name	Metals
Acq. Date-Time	2022-08-11 13:17:54
Instrument Name	G3281A JP10340551
Batch Folder	D:\Agilent\ICPMH\1\DATA\.b081122m1.b

[1]

Sensitivity



Ch	Mass	Range	Count	Avg Count	RSD%
1	7	10000	6180	5919	3.029
2	59	10000	4710	4497	3.343
3	89	10000	7918	7693	2.984
4	140	10000	8372	8042	3.398
5	205	10000	5629	5517	4.269
6	156/140	2	1.194 %	1.140 %	12.351
7	70/140	10	5.053 %	5.673 %	7.281
8	9	20	5	6	47.873
9	11	100	66	63	15.377
10	88	200	29	37	37.718
11	95	20	5	3	68.285
12	107	20	4	5	52.582
13	121	20	10	7	43.724
14	137	20	1	7	43.515
15	208	100	37	39	18.147

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.30 L/min
RF Power	1500 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	7.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Q1 Entrance	---	Cell Exit	-58 V
Extract 2	-105.0 V	Q1 Exit	---	Deflect	15.8 V
Omega Bias	-55 V	Cell Focus	---	Plate Bias	-45 V
Omega Lens	6.7 V	Cell Entrance	-40 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Axial Acceleration	---
He Flow	0.0 mL/min	4th Gas Flow	---	OctP RF	190 V
H2 Flow	---	OctP Bias	-8.0 V	Energy Discrimination	5.0 V

Meter

Current Signal

Name	Value	Unit
Water RF/WC/IF	1.09	L/min
Water Temp	36.7	°C
S/C Temp (L)	2.0	°C
Reflected Power	8	W
Forward Power	1499	W

US EPA Tune Check Report

Operator Name	Metals
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\.b081122m1.b
Acq. Date-Time	2022-08-11 13:26:23
Report Comment	---
Instrument Name	G3281A JP10340551

[1]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	20.00	14547	145474.10			1.668	5.000
24	20.00	49087	490868.80			1.426	5.000
25	20.00	6344	63444.15			1.022	5.000
26	20.00	7401	74006.03			1.521	5.000
59	20.00	52684	526843.39			1.364	5.000
115	20.00	73675	736748.26			2.009	5.000
206	20.00	22548	225478.93			1.443	5.000
207	20.00	20442	204421.64			1.930	5.000
208	20.00	49068	490675.47			1.427	5.000

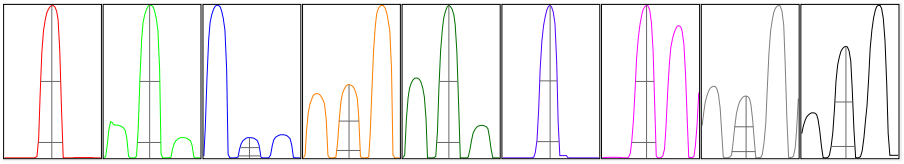
Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14948	14382	14384	14415	14608
24	50292	48589	48601	48976	48976
25	6457	6315	6325	6292	6333
26	7592	7323	7361	7321	7406
59	53886	51941	52517	52526	52552
115	76258	72882	73308	72567	73359
206	23082	22248	22410	22390	22609
207	21044	20023	20170	20429	20544
208	50220	48489	49078	48522	49028

Integration Time [sec] 0.1

Resolution/Axis

US EPA Tune Check Report



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	24603.24	9.00	8.90 - 9.10	
24	83173.09	23.95	23.90 - 24.10	
25	11043.35	24.95	24.90 - 25.10	
26	12604.74	25.95	25.90 - 26.10	
59	95874.16	58.95	58.90 - 59.10	
115	142281.29	115.00	114.90 - 115.10	
206	41148.53	205.90	205.90 - 206.10	
207	35606.46	206.90	206.90 - 207.10	
208	87787.81	207.90	207.90 - 208.10	

Mass	W-50%	W-10%	W-10% (Required)	W-10% (Flag)
9	0.61	0.746	0.900	
24	0.61	0.719	0.900	
25	0.60	0.687	0.900	
26	0.61	0.720	0.900	
59	0.57	0.709	0.900	
115	0.53	0.686	0.900	
206	0.57	0.740	0.900	
207	0.56	0.716	0.900	
208	0.55	0.729	0.900	

Integration Time [sec]	0.1
Acquisition Time [sec]	235
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.30 L/min
RF Power	1500 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	7.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.7 V	Deflect	15.8 V
Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-45 V
Omega Bias	-55 V	Cell Exit	-58 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V

US EPA Tune Check Report

He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	129	Axis Gain	0.9998	QP Bias	-3.0 V
Mass Offset	128	Axis Offset	0.05		
Hardware Settings					
Torch					
Torch H	-1.5 mm	Torch V	0.6 mm		
EM					
Discriminator	4.5 mV	Analog HV	1696 V	Pulse HV	1422 V

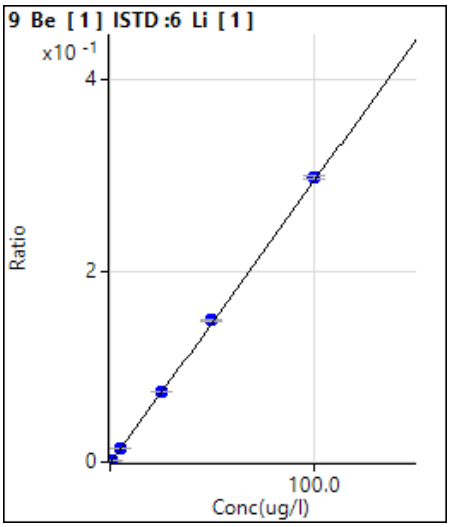
11.3.2

11

Calibration for 079_QC2.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\.b081122m1.b\
Analysis File: .b081122m1.batch.bin
DA Date-Time: 2022-08-11 21:04:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

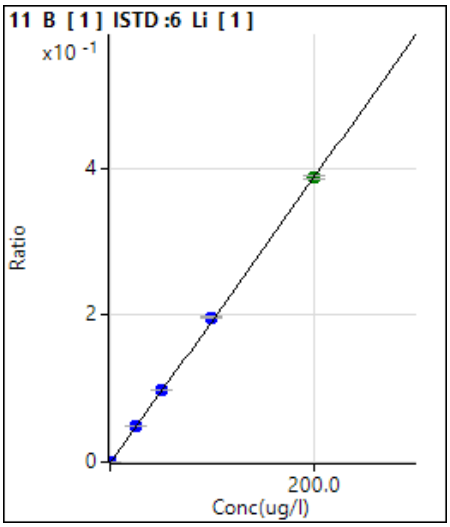
Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	STDA	2022-08-11 13:59:47
2	004CALS.d	STDB	2022-08-11 14:03:30
3	005CALS.d	STDC	2022-08-11 14:07:13
4	006CALS.d	STDD	2022-08-11 14:10:53
5	007CALS.d	STDE	2022-08-11 14:14:35
6	008CALS.d	STDF	2022-08-11 14:18:15
7	009CALS.d	STDG	2022-08-11 14:21:51
8	010CALS.d	STDH	2022-08-11 14:25:28
9	011CALS.d	STDI	2022-08-11 14:28:55
10	012CALS.d	STDJ	2022-08-11 14:32:13



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.67	0.0001	P	1.9	
2	☐	0.500	0.511	4584.69	0.0016	P	3.0	2.3
3	☐	5.000	4.966	42658.46	0.0147	P	0.5	-0.7
4	☐	25.000	25.055	216321.68	0.0741	P	0.4	0.2
5	☐	50.000	50.273	430958.24	0.1486	P	1.2	0.5
6	☐	100.000	100.947	843284.69	0.2984	P	1.0	0.9
7	☐			734.70	0.0003	P	19.5	
8	☐			302.68	0.0001	P	25.0	
9	☐			252.01	0.0001	P	14.1	
10	☐			229.34	0.0001	P	4.2	

y = 0.0030 * x + 6.6534E-005
R = 1.0000
DL = 0.001287 ug/l
BEC = 0.02252 ug/l

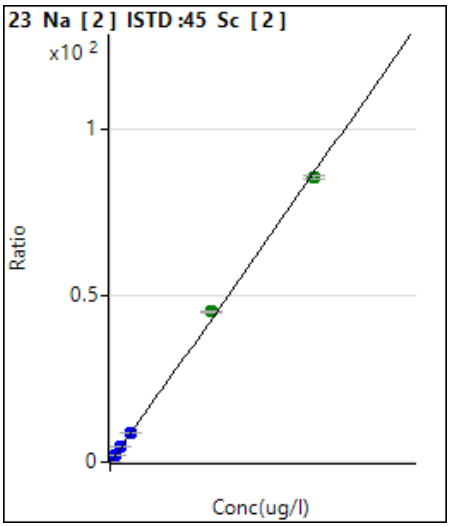
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	611.14	0.0002	P	8.5	
2	☐	25.000	24.868	141173.37	0.0486	P	1.8	-0.5
3	☐			37067.55	0.0128	P	1.0	
4	☐			142794.32	0.0489	P	1.4	
5	☐	50.000	50.145	283379.01	0.0977	P	1.7	0.3
6	☐	100.000	100.846	554879.63	0.1963	P	1.2	0.8
7	☐	200.000	199.154	1101981.66	0.3875	A	1.5	-0.4
8	☐			27322.49	0.0095	P	3.8	
9	☐			12362.59	0.0044	P	4.3	
10	☐			7741.95	0.0028	P	1.3	

y = 0.001945 * x + 2.136710E-004
R = 1.0000
DL = 0.02789 ug/l
BEC = 0.1099 ug/l

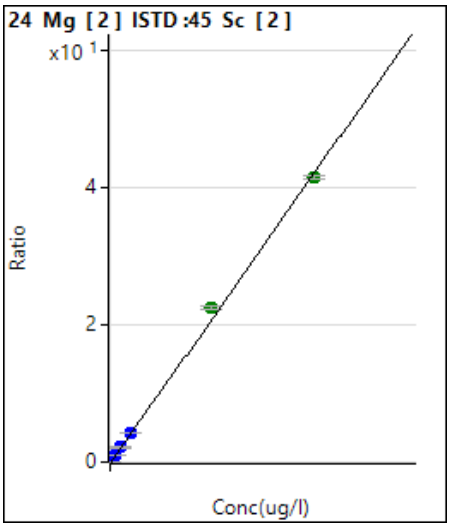
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.002	3171.45	0.0332	P	3.7	
2	☐	250.000	248.594	211882.13	2.2056	P	1.0	-0.6
3	☐			209747.73	2.0000	M	127.8	
4	☐			26195.94	0.2667	P	1.6	
5	☐			49786.37	0.5128	P	1.3	
6	☐			91530.91	0.9497	P	1.4	
7	☐	500.000	502.453	430009.11	4.4241	P	1.0	0.5
8	☐	1000.000	998.887	868268.89	8.7625	P	0.6	-0.1
9	☐	5000.000	5167.335	4441535.24	45.1906	A	1.6	3.3
10	☐	10000.000	9788.151	8582897.99	85.5721	A	1.6	-2.1

y = 0.0087 * x + 0.0331
R = 0.9996
DL = 0.4169 ug/l
BEC = 3.793 ug/l

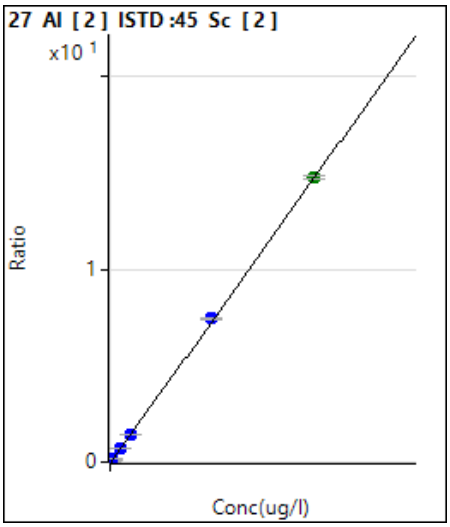
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	171.11	0.0018	P	12.1	
2	☐	250.000	246.624	100331.22	1.0444	P	1.3	-1.4
3	☐			37625.98	0.3592	P	123.4	
4	☐			10706.86	0.1090	P	2.4	
5	☐			21719.66	0.2237	P	2.5	
6	☐			42757.36	0.4436	P	0.2	
7	☐	500.000	502.425	206616.99	2.1258	P	1.0	0.5
8	☐	1000.000	992.922	416110.53	4.1994	P	1.0	-0.7
9	☐	5000.000	5319.565	2210380.96	22.4903	A	1.7	6.4
10	☐	10000.000	9819.220	4163620.25	41.5126	A	1.4	-1.8

y = 0.0042 * x + 0.0018
R = 0.9992
DL = 0.1542 ug/l
BEC = 0.423 ug/l

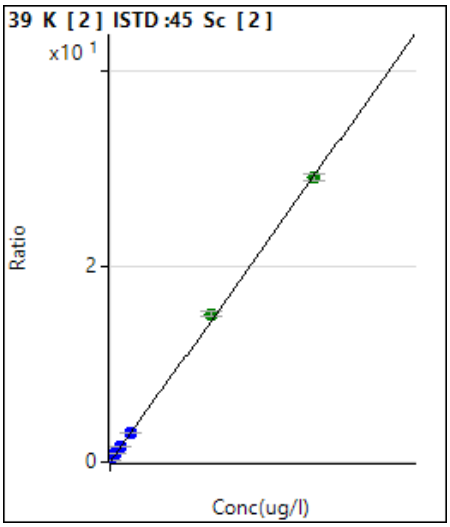
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.163	164.45	0.0017	P	10.3	
2	☐	25.000	27.044	4027.20	0.0419	P	3.6	8.2
3	☐			21099.00	0.2013	P	125.0	
4	☐			3766.02	0.0383	P	2.2	
5	☐	50.000	54.193	7967.52	0.0820	P	2.5	8.4
6	☐	100.000	102.286	14754.37	0.1531	P	1.3	2.3
7	☐	500.000	493.057	70993.99	0.7305	P	1.8	-1.4
8	☐	1000.000	979.270	143571.37	1.4489	P	0.8	-2.1
9	☐	5000.000	5034.364	731241.41	7.4404	P	1.7	0.7
10	☐	10000.000	9986.275	1480041.16	14.7570	A	1.7	-0.1

y = 0.001478 * x + 0.001959
R = 1.0000
DL = 0.3601 ug/l
BEC = 1.326 ug/l

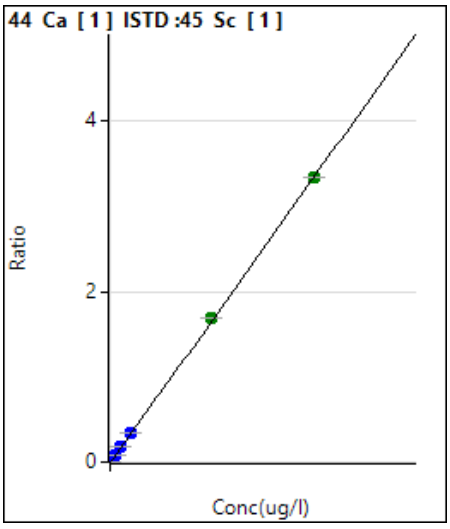
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	1.499	12550.35	0.1312	P	1.8	
2	☐	250.000	244.563	80897.44	0.8421	P	1.3	-2.2
3	☐			31936.17	0.3096	P	70.1	
4	☐			20018.75	0.2038	P	0.8	
5	☐			27163.27	0.2798	P	1.8	
6	☐			40770.72	0.4231	P	2.1	
7	☐	500.000	493.620	152641.58	1.5705	P	1.5	-1.3
8	☐	1000.000	981.295	296952.30	2.9967	P	0.3	-1.9
9	☐	5000.000	5131.783	1487302.83	15.1352	A	2.7	2.6
10	☐	10000.000	9902.130	2917200.99	29.0866	A	2.0	-1.0

y = 0.002925 * x + 0.126848
R = 0.9998
DL = 2.43 ug/l
BEC = 43.37 ug/l

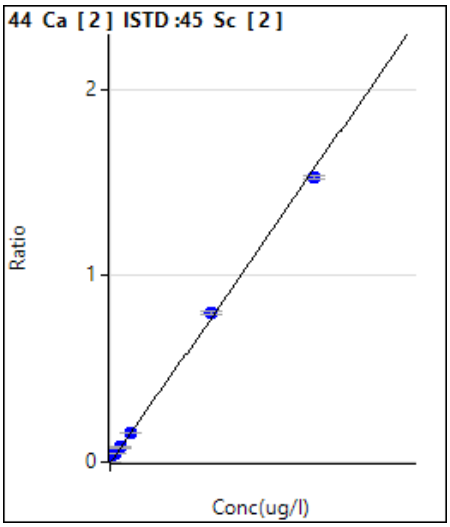
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.476	9950.10	0.0038	P	4.6	
2	☐	250.000	254.626	233336.29	0.0893	P	0.4	1.9
3	☐			24358.68	0.0091	P	5.6	
4	☐			40850.87	0.0153	P	2.0	
5	☐			73027.97	0.0278	P	0.6	
6	☐			127127.11	0.0498	P	1.9	
7	☐	500.000	509.742	451031.57	0.1749	P	0.9	1.9
8	☐	1000.000	1004.902	897253.76	0.3409	P	1.3	0.5
9	☐	5000.000	5035.414	4496640.98	1.6927	A	0.4	0.7
10	☐	10000.000	9946.633	8700113.20	3.3398	A	0.5	-0.5

y = 3.353777E-004 * x + 0.003917
R = 1.0000
DL = 1.559 ug/l
BEC = 11.68 ug/l

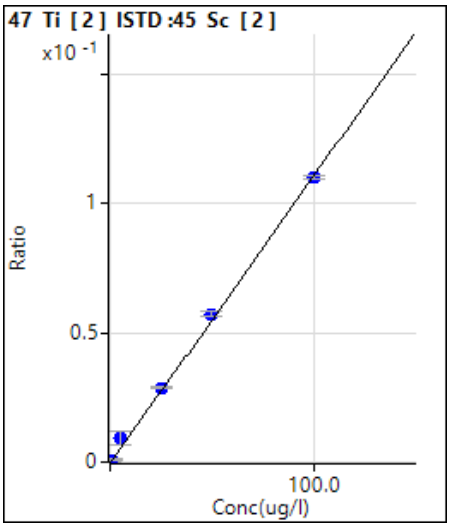
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.264	52.22	0.0005	P	26.8	
2	☐	250.000	266.617	4099.44	0.0427	P	3.6	6.6
3	☐			3196.60	0.0306	P	110.1	
4	☐			1919.02	0.0195	P	7.1	
5	☐			3777.15	0.0389	P	6.8	
6	☐			7063.81	0.0733	P	2.6	
7	☐	500.000	494.428	7645.18	0.0786	P	2.1	-1.1
8	☐	1000.000	1003.932	15763.16	0.1591	P	0.4	0.4
9	☐	5000.000	5051.492	78426.61	0.7981	P	2.5	1.0
10	☐	10000.000	9673.210	153227.42	1.5277	P	1.2	-3.3

y = 1.5787E-004 * x + 5.8781E-004
R = 0.9998
DL = 2.781 ug/l
BEC = 3.723 ug/l

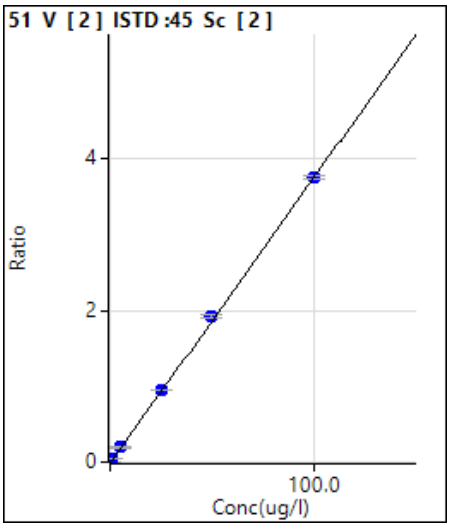
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0001	P	100.3	
2	☐	1.000	0.791	91.11	0.0009	P	15.8	-20.9
3	☐	5.000	8.190	942.31	0.0092	P	58.7	63.8
4	☐	25.000	25.836	2825.83	0.0288	P	1.2	3.3
5	☐	50.000	51.370	5545.43	0.0571	P	3.4	2.7
6	☐	100.000	98.948	10599.05	0.1100	P	0.7	-1.1
7	☐			64.45	0.0007	P	15.8	
8	☐			7.78	0.0001	P	65.7	
9	☐			10.00	0.0001	P	67.3	
10	☐			14.44	0.0001	P	56.8	

y = 0.0011 * x + 7.0381E-005
R = 0.9994
DL = 0.1906 ug/l
BEC = 0.06337 ug/l

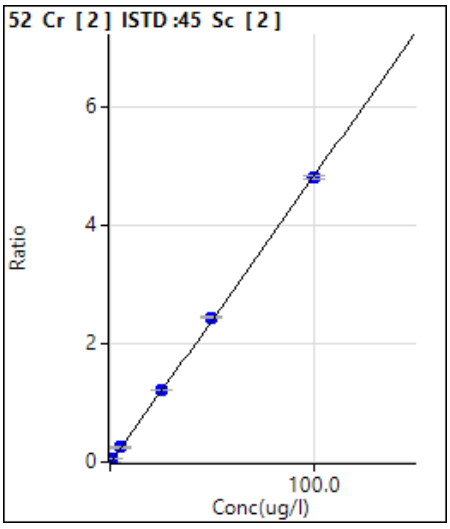
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	425.57	0.0045	P	14.1	
2	☐	1.000	1.026	4139.46	0.0431	P	2.5	2.6
3	☐	5.000	5.012	19543.30	0.1931	P	4.0	0.2
4	☐	25.000	25.017	92919.12	0.9461	P	0.9	0.1
5	☐	50.000	50.769	185953.59	1.9153	P	2.2	1.5
6	☐	100.000	99.610	361771.24	3.7537	P	1.2	-0.4
7	☐			377.79	0.0039	P	13.1	
8	☐			414.45	0.0042	P	11.2	
9	☐			334.45	0.0034	P	13.5	
10	☐			293.34	0.0029	P	4.6	

y = 0.0376 * x + 0.0045
R = 1.0000
DL = 0.04997 ug/l
BEC = 0.1184 ug/l

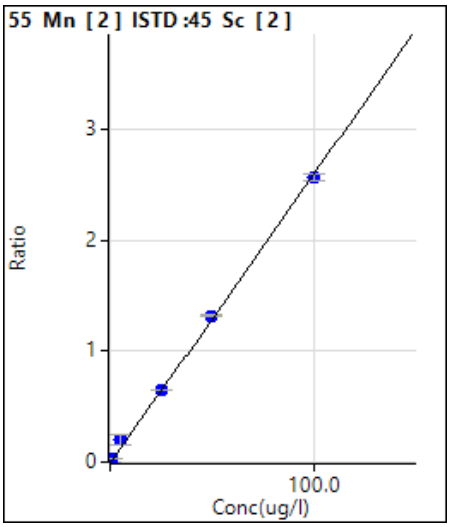
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.001	146.51	0.0015	P	19.1	
2	☐	1.000	1.010	4860.86	0.0506	P	2.2	1.0
3	☐	5.000	5.044	24953.27	0.2465	P	4.9	0.9
4	☐	25.000	24.993	119358.26	1.2153	P	1.6	0.0
5	☐	50.000	50.247	237073.01	2.4416	P	1.5	0.5
6	☐	100.000	99.025	463608.50	4.8103	P	1.5	-1.0
7	☐			336.19	0.0035	P	14.4	
8	☐			201.83	0.0020	P	25.3	
9	☐			186.04	0.0019	P	15.7	
10	☐			108.41	0.0011	P	31.1	

y = 0.0486 * x + 0.0016
R = 1.0000
DL = 0.01805 ug/l
BEC = 0.03223 ug/l

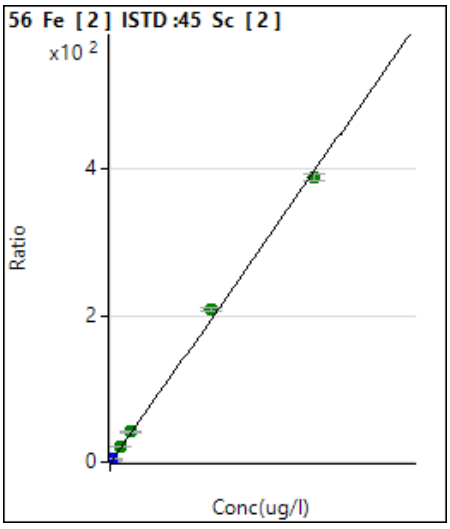
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.003	100.00	0.0010	P	23.2	
2	☐	1.000	1.016	2660.25	0.0277	P	2.0	1.6
3	☐	5.000	7.596	20473.72	0.1997	P	48.2	51.9
4	☐	25.000	24.818	63833.67	0.6499	P	1.1	-0.7
5	☐	50.000	50.497	128284.63	1.3212	P	1.2	1.0
6	☐	100.000	98.394	248007.85	2.5733	P	2.0	-1.6
7	☐			255.56	0.0026	P	11.6	
8	☐			271.12	0.0027	P	13.9	
9	☐			521.13	0.0053	P	4.1	
10	☐			883.37	0.0088	P	10.6	

y = 0.0261 * x + 0.0011
R = 0.9996
DL = 0.02789 ug/l
BEC = 0.04313 ug/l

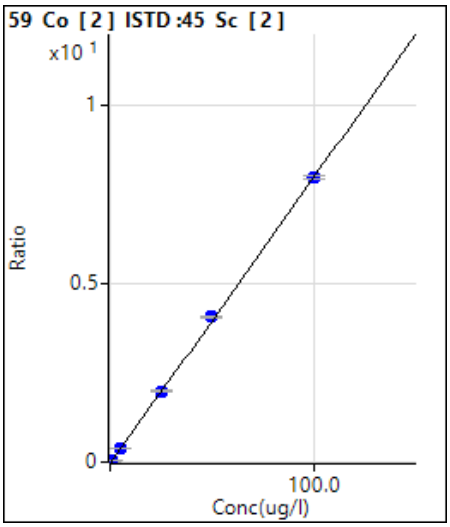
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.438	8214.36	0.0859	P	6.4	
2	☐	25.000	25.142	106266.54	1.1062	P	0.4	0.6
3	☐			602522.44	5.7476	M	126.1	
4	☐			112170.64	1.1421	P	0.9	
5	☐	50.000	54.131	219665.73	2.2625	P	2.0	8.3
6	☐	100.000	104.978	413541.54	4.2908	P	1.2	5.0
7	☐	500.000	519.500	2024121.65	20.8255	A	1.6	3.9
8	☐	1000.000	1028.462	4075274.84	41.1274	A	1.1	2.8
9	☐	5000.000	5206.968	20421294.19	207.8030	A	2.3	4.1
10	☐	10000.000	9752.875	39026168.45	389.1336	A	2.2	-2.5

y = 0.039889 * x + 0.103331
R = 0.9995
DL = 0.4119 ug/l
BEC = 2.59 ug/l

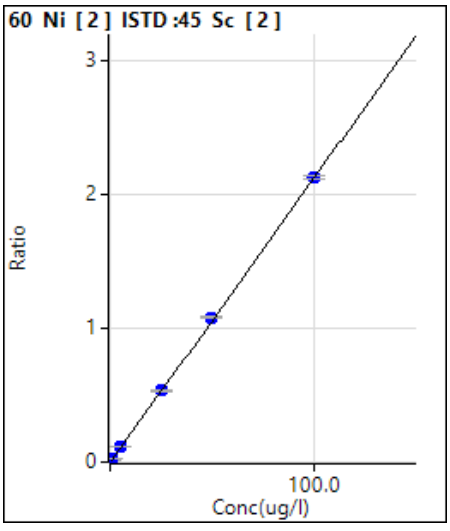
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19.98	0.0002	P	45.3	
2	☐	0.500	0.522	4048.04	0.0421	P	1.3	4.4
3	☐	5.000	4.971	40411.59	0.3993	P	4.8	-0.6
4	☐	25.000	24.791	195471.49	1.9902	P	1.6	-0.8
5	☐	50.000	50.753	395582.73	4.0743	P	1.8	1.5
6	☐	100.000	99.480	769641.89	7.9858	P	1.8	-0.5
7	☐			188.99	0.0019	P	28.8	
8	☐			181.22	0.0018	P	48.8	
9	☐			369.32	0.0038	P	9.6	
10	☐			643.55	0.0064	P	15.9	

y = 0.080273 * x + 2.173727E-004
R = 0.9999
DL = 0.003544 ug/l
BEC = 0.002708 ug/l

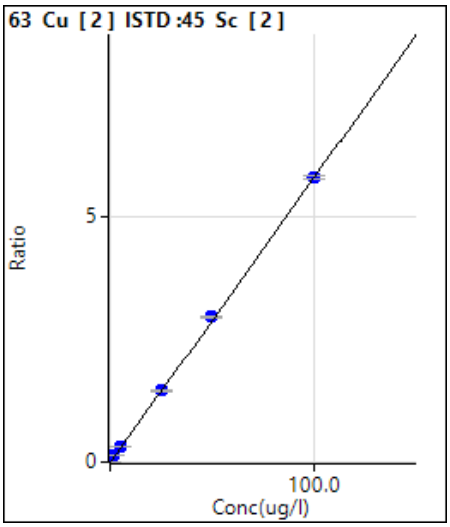
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.023	691.13	0.0072	P	12.7	
2	☐	1.000	0.997	2773.61	0.0289	P	5.9	-0.3
3	☐	5.000	5.000	11521.05	0.1137	P	7.1	0.0
4	☐	25.000	24.731	52259.35	0.5321	P	1.0	-1.1
5	☐	50.000	50.456	104622.72	1.0775	P	1.4	0.9
6	☐	100.000	99.839	204764.82	2.1246	P	1.2	-0.2
7	☐			838.92	0.0086	P	7.1	
8	☐			803.37	0.0081	P	14.0	
9	☐			943.37	0.0096	P	6.6	
10	☐			1263.40	0.0126	P	7.7	

y = 0.021203 * x + 0.007724
R = 1.0000
DL = 0.1303 ug/l
BEC = 0.3643 ug/l

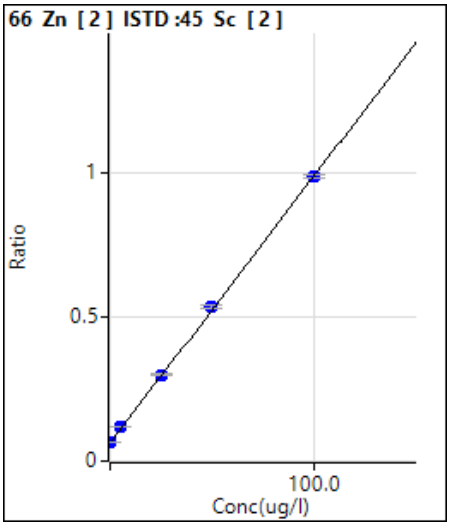
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.145	575.57	0.0060	P	7.7	
2	☐	2.000	1.892	11934.44	0.1242	P	2.1	-5.4
3	☐	5.000	5.057	31181.15	0.3079	P	6.9	1.1
4	☐	25.000	24.798	142749.50	1.4533	P	1.5	-0.8
5	☐	50.000	50.696	287011.44	2.9561	P	2.0	1.4
6	☐	100.000	99.702	558970.52	5.7998	P	1.2	-0.3
7	☐			1222.28	0.0126	P	3.0	
8	☐			881.15	0.0089	P	8.6	
9	☐			1105.61	0.0113	P	8.8	
10	☐			1280.07	0.0128	P	3.3	

y = 0.058026 * x + 0.014418
R = 1.0000
DL = 0.02399 ug/l
BEC = 0.2485 ug/l

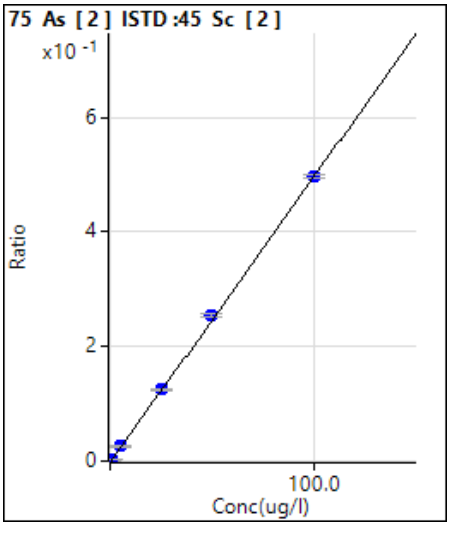
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	-0.190	6366.86	0.0666	P	1.5	
2	☐	5.000	5.332	11289.57	0.1175	P	1.3	6.6
3	☐			13238.10	0.1307	P	7.9	
4	☐	25.000	24.828	29207.21	0.2974	P	2.1	-0.7
5	☐	50.000	50.651	52008.93	0.5357	P	1.7	1.3
6	☐	100.000	99.405	94979.50	0.9855	P	1.7	-0.6
7	☐			7467.34	0.0768	P	0.8	
8	☐			6516.93	0.0658	P	0.3	
9	☐			6460.25	0.0657	P	3.2	
10	☐			7982.02	0.0796	P	0.1	

y = 0.009227 * x + 0.068330
R = 0.9999
DL = 0.3195 ug/l
BEC = 7.406 ug/l

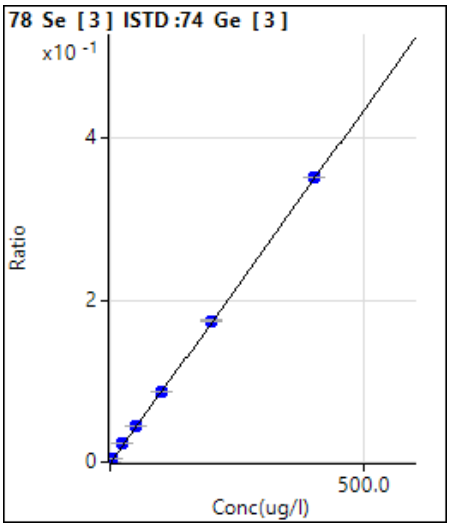
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12.33	0.0001	P	8.4	
2	☐	0.500	0.510	256.67	0.0027	P	8.2	1.9
3	☐	5.000	5.153	2617.23	0.0258	P	8.2	3.1
4	☐	25.000	25.002	12260.61	0.1248	P	0.9	0.0
5	☐	50.000	51.046	24730.67	0.2547	P	2.5	2.1
6	☐	100.000	99.650	47916.57	0.4972	P	0.9	-0.3
7	☐			34.00	0.0004	P	29.1	
8	☐			24.00	0.0002	P	3.9	
9	☐			19.33	0.0002	P	9.9	
10	☐			17.33	0.0002	P	39.1	

y = 0.0050 * x + 1.2902E-004
R = 0.9999
DL = 0.006515 ug/l
BEC = 0.02587 ug/l

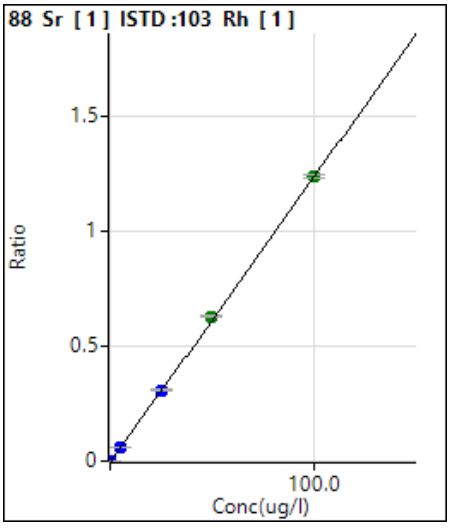
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.27	0.0000	P	34.8	
2	☐	0.500	0.528	43.60	0.0005	P	4.8	5.6
3	☐	5.000	4.792	381.93	0.0042	P	0.2	-4.2
4	☐	25.000	25.431	1998.92	0.0224	P	0.7	1.7
5	☐	50.000	50.551	4031.70	0.0444	P	1.2	1.1
6	☐	100.000	99.519	7881.83	0.0874	P	0.8	-0.5
7	☐	200.000	198.113	15809.28	0.1740	P	1.2	-0.9
8	☐	400.000	400.970	32162.94	0.3521	P	0.5	0.2
9	☐			163.20	0.0019	P	30.5	
10	☐			16.40	0.0002	P	30.4	

y = 8.7799E-004 * x + 2.5436E-005
R = 1.0000
DL = 0.03023 ug/l
BEC = 0.02897 ug/l

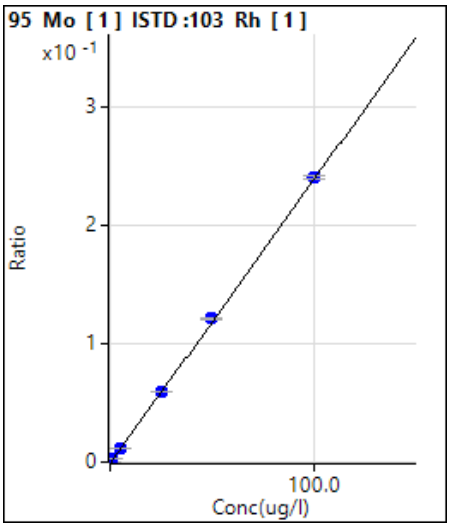
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	490.02	0.0001	P	19.2	
2	☐	5.000	4.843	213066.56	0.0602	P	0.3	-3.1
3	☐	5.000	4.822	209410.32	0.0600	P	1.1	-3.6
4	☐	25.000	24.903	1076961.68	0.3091	P	1.7	-0.4
5	☐	50.000	50.679	2181675.28	0.6289	A	1.0	1.4
6	☐	100.000	99.774	4189051.19	1.2380	A	1.4	-0.2
7	☐			1163.42	0.0003	P	17.0	
8	☐			996.75	0.0003	P	6.6	
9	☐			1823.51	0.0005	P	5.8	
10	☐			3323.80	0.0010	P	5.9	

y = 0.012407 * x + 1.292055E-004
R = 1.0000
DL = 0.006393 ug/l
BEC = 0.01041 ug/l

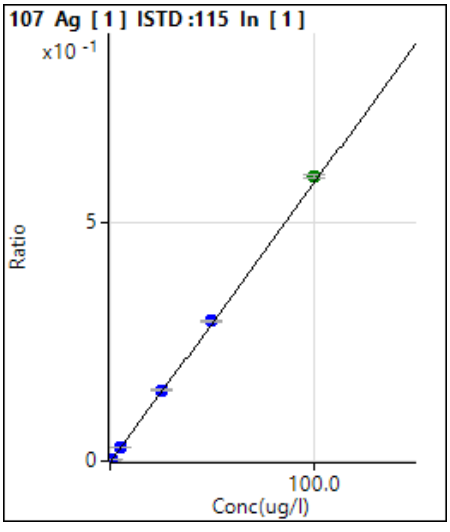
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	70.5	
2	☐	1.000	0.974	8315.81	0.0023	P	2.5	-2.6
3	☐	5.000	4.707	39506.31	0.0113	P	1.6	-5.9
4	☐	25.000	24.541	205320.60	0.0589	P	0.5	-1.8
5	☐	50.000	50.493	420594.37	0.1212	P	1.2	1.0
6	☐	100.000	100.318	815089.54	0.2409	P	0.7	0.3
7	☐			513.37	0.0001	P	6.3	
8	☐			220.01	0.0001	P	20.2	
9	☐			163.34	0.0000	P	9.9	
10	☐			253.35	0.0001	P	13.3	

y = 0.002401 * x + 1.105284E-005
R = 1.0000
DL = 0.01074 ug/l
BEC = 0.004603 ug/l

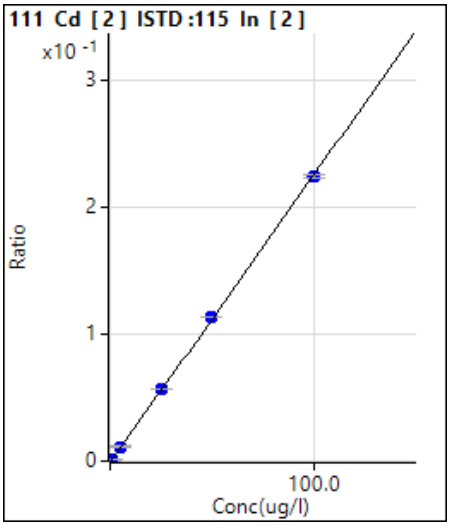
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0000	P	16.4	
2	☐	0.500	0.449	9743.31	0.0026	P	4.1	-10.3
3	☐	5.000	4.672	98810.27	0.0273	P	1.6	-6.6
4	☐	25.000	25.469	541461.35	0.1486	P	0.9	1.9
5	☐	50.000	50.187	1052269.57	0.2928	P	1.3	0.4
6	☐	100.000	102.007	2093647.57	0.5951	A	1.2	2.0
7	☐			256.68	0.0001	P	11.6	
8	☐			126.67	0.0000	P	36.5	
9	☐			83.34	0.0000	P	59.7	
10	☐			176.67	0.0001	P	40.9	

y = 0.0058 * x + 9.9173E-006
R = 1.0000
DL = 0.0008424 ug/l
BEC = 0.0017 ug/l

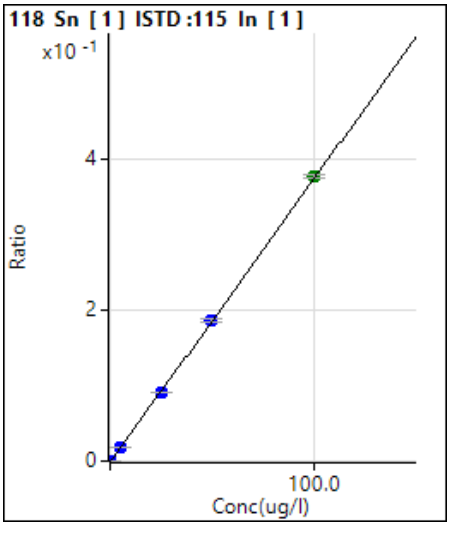
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5.55	0.0000	P	69.3	
2	☐	0.500	0.472	694.01	0.0011	P	14.0	-5.6
3	☐	5.000	5.049	7608.41	0.0114	P	3.8	1.0
4	☐	25.000	24.951	36355.74	0.0565	P	0.9	-0.2
5	☐	50.000	50.007	73512.49	0.1132	P	0.1	0.0
6	☐	100.000	98.956	143341.45	0.2240	P	1.5	-1.0
7	☐			52.19	0.0001	P	47.2	
8	☐			28.88	0.0000	P	58.3	
9	☐			15.54	0.0000	P	69.1	
10	☐			19.99	0.0000	P	17.1	

y = 0.0023 * x + 8.6212E-006
R = 1.0000
DL = 0.007985 ug/l
BEC = 0.003808 ug/l

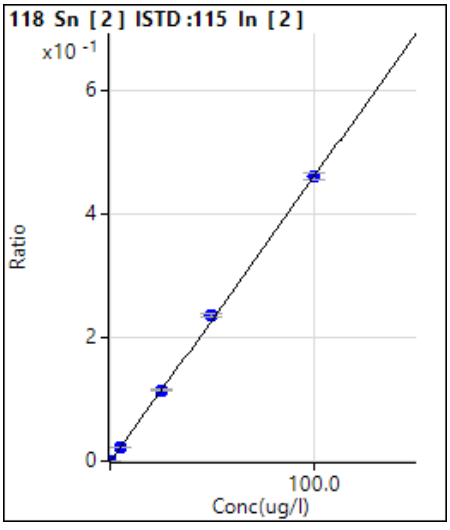
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1276.77	0.0003	P	11.0	
2	☐	5.000	4.569	64945.36	0.0175	P	1.0	-8.6
3	☐			64372.49	0.0178	P	0.8	
4	☐	25.000	24.131	331768.51	0.0910	P	1.3	-3.5
5	☐	50.000	49.597	671099.55	0.1867	P	1.4	-0.8
6	☐	100.000	100.440	1329092.74	0.3778	A	1.4	0.4
7	☐			17400.32	0.0049	P	14.6	
8	☐			5174.38	0.0014	P	16.5	
9	☐			2923.72	0.0008	P	7.5	
10	☐			1960.20	0.0006	P	8.4	

y = 0.0038 * x + 3.4816E-004
R = 1.0000
DL = 0.03071 ug/l
BEC = 0.09264 ug/l

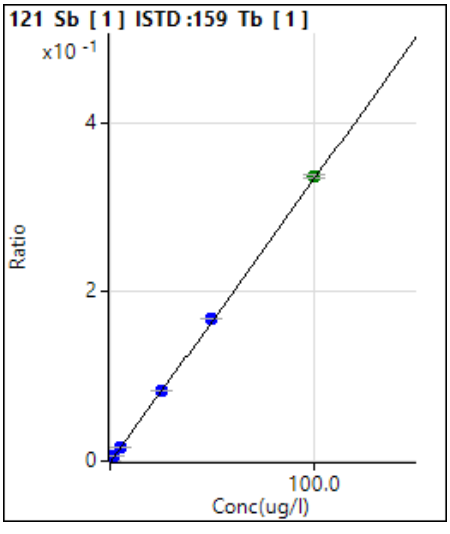
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.025	418.90	0.0007	P	24.6	
2	☐	5.000	4.698	14316.61	0.0222	P	2.1	-6.0
3	☐			16427.14	0.0247	P	9.4	
4	☐	25.000	24.745	73885.19	0.1148	P	1.1	-1.0
5	☐	50.000	50.906	152987.16	0.2356	P	1.5	1.8
6	☐	100.000	99.626	294690.64	0.4606	P	2.1	-0.4
7	☐			8420.14	0.0131	P	10.3	
8	☐			2360.20	0.0037	P	9.2	
9	☐			1237.84	0.0020	P	11.9	
10	☐			826.70	0.0013	P	13.6	

y = 0.004618 * x + 5.408827E-004
R = 0.9999
DL = 0.1051 ug/l
BEC = 0.1171 ug/l

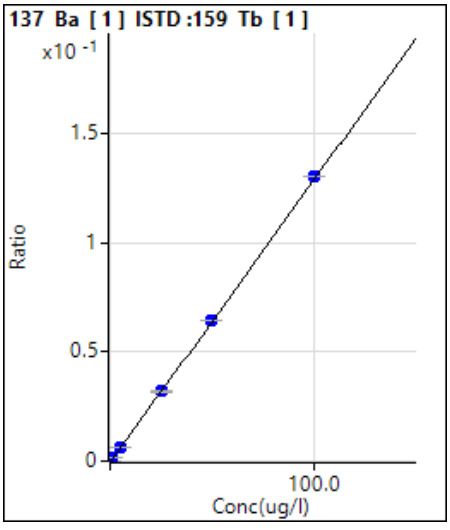
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	133.34	0.0000	P	62.6	
2	☐	2.000	1.844	31599.45	0.0062	P	1.6	-7.8
3	☐	5.000	4.678	78962.37	0.0157	P	1.4	-6.4
4	☐	25.000	24.916	417105.41	0.0835	P	1.0	-0.3
5	☐	50.000	50.046	838351.08	0.1677	P	0.2	0.1
6	☐	100.000	100.554	1623487.37	0.3369	A	0.7	0.6
7	☐			5611.22	0.0011	P	11.0	
8	☐			1590.14	0.0003	P	8.4	
9	☐			1146.76	0.0002	P	13.2	
10	☐			1386.78	0.0003	P	7.1	

y = 0.003350 * x + 2.233769E-005
R = 1.0000
DL = 0.01473 ug/l
BEC = 0.006668 ug/l

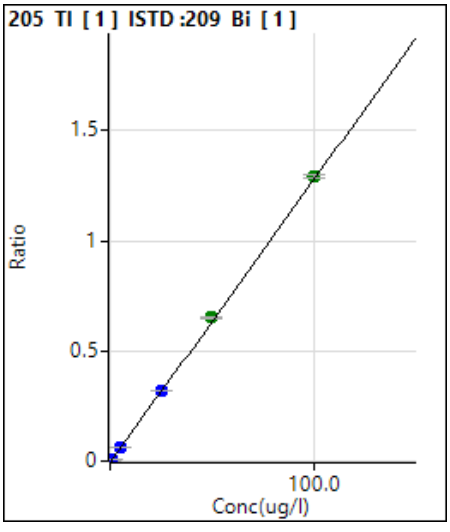
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.001	90.00	0.0000	P	73.4	
2	☐	1.000	0.980	6551.67	0.0013	P	1.1	-2.0
3	☐	5.000	4.669	30507.50	0.0061	P	1.2	-6.6
4	☐	25.000	24.608	159292.12	0.0319	P	1.7	-1.6
5	☐	50.000	49.986	323734.45	0.0647	P	0.1	0.0
6	☐	100.000	100.792	629128.17	0.1305	P	0.6	0.8
7	☐			176.68	0.0000	P	19.8	
8	☐			266.68	0.0001	P	19.5	
9	☐			373.35	0.0001	P	20.9	
10	☐			546.70	0.0001	P	13.6	

y = 0.001295 * x + 1.609311E-005
R = 1.0000
DL = 0.03039 ug/l
BEC = 0.01243 ug/l

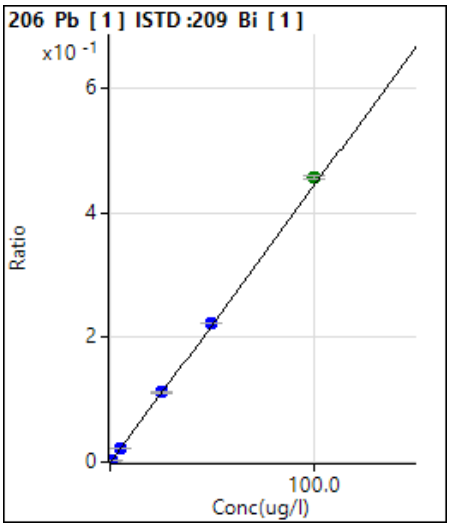
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.34	0.0000	P	27.4	
2	☐	0.500	0.501	20381.30	0.0065	P	2.1	0.2
3	☐	5.000	4.790	193731.04	0.0615	P	1.4	-4.2
4	☐	25.000	25.017	1018553.55	0.3213	P	0.4	0.1
5	☐	50.000	50.725	2073588.25	0.6514	A	1.2	1.5
6	☐	100.000	100.672	4005315.77	1.2929	A	0.8	0.7
7	☐			1436.80	0.0005	P	15.1	
8	☐			386.69	0.0001	P	18.0	
9	☐			316.68	0.0001	P	13.4	
10	☐			323.35	0.0001	P	27.1	

y = 0.0128 * x + 3.5832E-005
R = 1.0000
DL = 0.002313 ug/l
BEC = 0.00279 ug/l

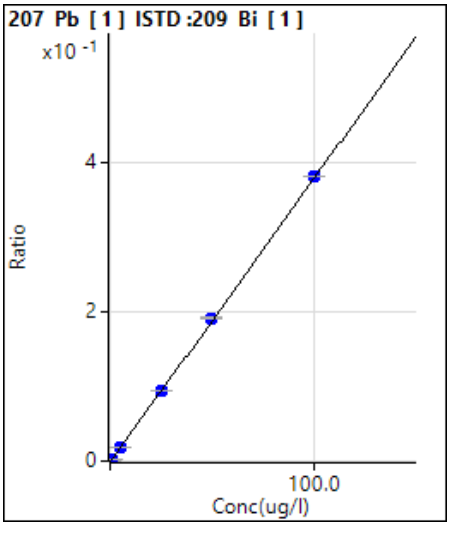
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.008	2370.29	0.0008	P	11.5	
2	☐	0.500	0.501	9303.31	0.0030	P	7.2	0.3
3	☐	5.000	4.812	69678.23	0.0221	P	1.9	-3.8
4	☐	25.000	24.948	354255.41	0.1118	P	0.8	-0.2
5	☐	50.000	49.950	709902.05	0.2230	P	0.8	-0.1
6	☐	100.000	102.585	1416649.87	0.4573	A	1.3	2.6
7	☐			2690.36	0.0009	P	4.2	
8	☐			2753.69	0.0009	P	1.5	
9	☐			2606.99	0.0009	P	5.1	
10	☐			2980.41	0.0010	P	9.1	

y = 0.0045 * x + 7.2162E-004
R = 0.9999
DL = 0.05877 ug/l
BEC = 0.1621 ug/l

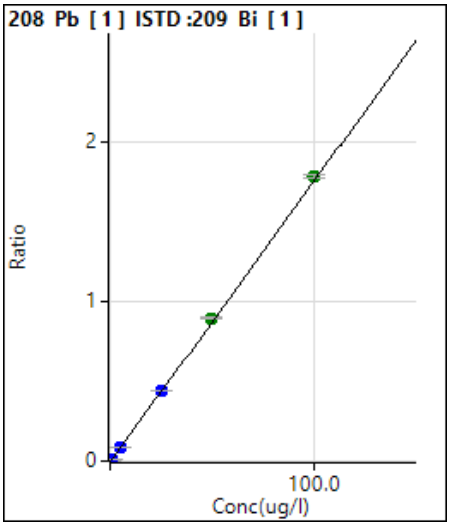
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.007	2013.54	0.0006	P	11.6	
2	☐	0.500	0.511	8062.51	0.0026	P	6.0	2.2
3	☐	5.000	4.742	58677.72	0.0186	P	1.9	-5.2
4	☐	25.000	24.721	299868.37	0.0946	P	0.3	-1.1
5	☐	50.000	50.187	609272.48	0.1914	P	1.6	0.4
6	☐	100.000	100.352	1183834.44	0.3821	P	0.2	0.4
7	☐			2406.96	0.0008	P	2.5	
8	☐			2213.59	0.0007	P	5.8	
9	☐			2310.26	0.0008	P	4.4	
10	☐			2460.31	0.0008	P	10.5	

y = 0.003802 * x + 6.165768E-004
R = 1.0000
DL = 0.05869 ug/l
BEC = 0.1622 ug/l

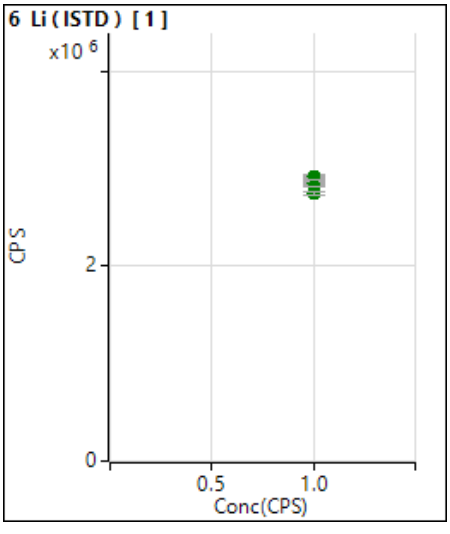
Weight: 1/y
Min Conc: <None>



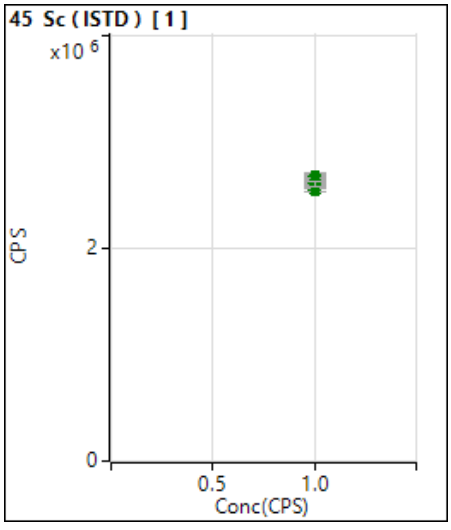
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.007	9428.23	0.0030	P	3.8	
2	☐	0.500	0.494	36415.45	0.0116	P	4.1	-1.2
3	☐	5.000	4.806	274591.46	0.0872	P	0.6	-3.9
4	☐	25.000	25.000	1400265.59	0.4417	P	0.0	0.0
5	☐	50.000	50.811	2848213.67	0.8948	A	1.3	1.6
6	☐	100.000	101.288	5517144.37	1.7809	A	0.9	1.3
7	☐			10888.70	0.0035	P	2.8	
8	☐			10285.10	0.0033	P	0.9	
9	☐			10548.52	0.0034	P	0.2	
10	☐			11602.23	0.0039	P	4.2	

y = 0.0176 * x + 0.0029
R = 1.0000
DL = 0.01949 ug/l
BEC = 0.1643 ug/l

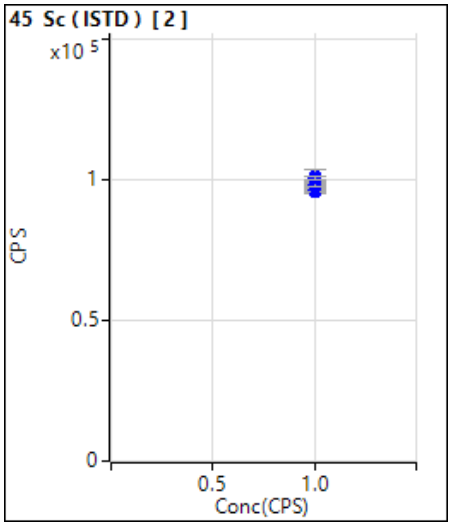
Weight: 1/SD^2
Min Conc: <None>



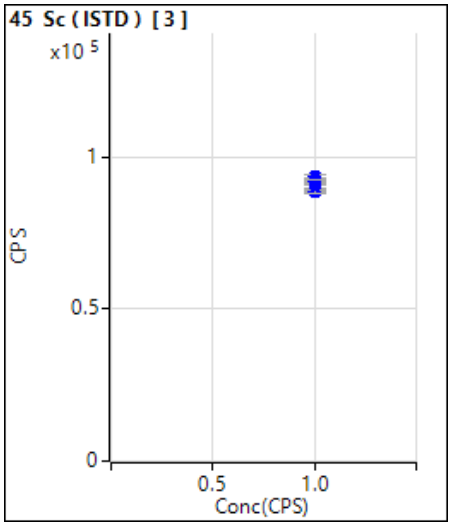
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2865774.89		A	0.7	
2	☐	1.000		2906982.28		A	1.2	
3	☐	1.000		2894077.55		A	0.7	
4	☐	1.000		2919205.28		A	0.6	
5	☐	1.000		2899923.65		A	0.7	
6	☐	1.000		2826612.36		A	1.0	
7	☐	1.000		2844167.10		A	1.2	
8	☐	1.000		2872120.17		A	0.7	
9	☐	1.000		2818159.10		A	0.3	
10	☐	1.000		2739053.02		A	1.6	



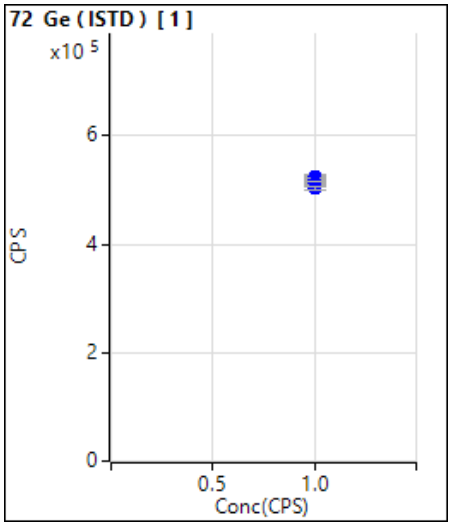
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2648889.49		A	1.6	
2	☐	1.000		2612600.64		A	0.5	
3	☐	1.000		2674789.96		A	1.2	
4	☐	1.000		2676395.38		A	2.2	
5	☐	1.000		2628476.47		A	0.6	
6	☐	1.000		2551531.06		A	1.4	
7	☐	1.000		2579295.74		A	0.8	
8	☐	1.000		2631800.43		A	0.4	
9	☐	1.000		2656504.02		A	0.2	
10	☐	1.000		2604998.30		A	1.4	



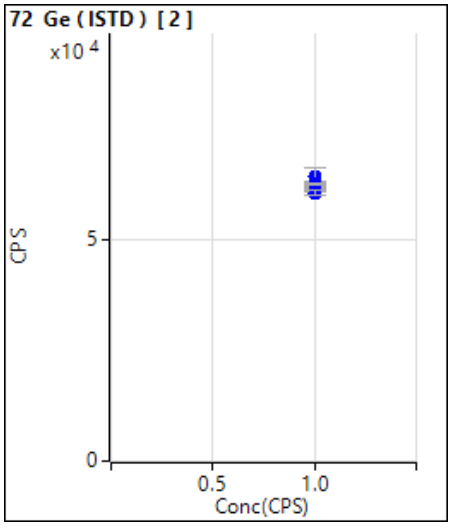
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		95645.75		P	1.5	
2	☐	1.000		96064.63		P	0.6	
3	☐	1.000		101089.24		P	4.4	
4	☐	1.000		98225.89		P	1.4	
5	☐	1.000		97106.20		P	1.4	
6	☐	1.000		96385.65		P	1.0	
7	☐	1.000		97202.72		P	1.2	
8	☐	1.000		99091.28		P	0.4	
9	☐	1.000		98301.85		P	1.9	
10	☐	1.000		100309.41		P	1.3	



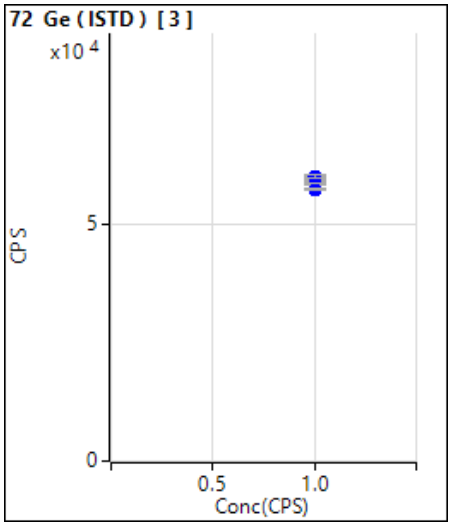
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		89435.10		P	1.2	
2	☐	1.000		88954.59		P	1.3	
3	☐	1.000		91784.56		P	0.3	
4	☐	1.000		92212.29		P	0.3	
5	☐	1.000		91522.86		P	1.1	
6	☐	1.000		91199.02		P	0.2	
7	☐	1.000		91182.47		P	0.5	
8	☐	1.000		91915.25		P	1.3	
9	☐	1.000		93775.57		P	1.4	
10	☐	1.000		92546.33		P	0.1	



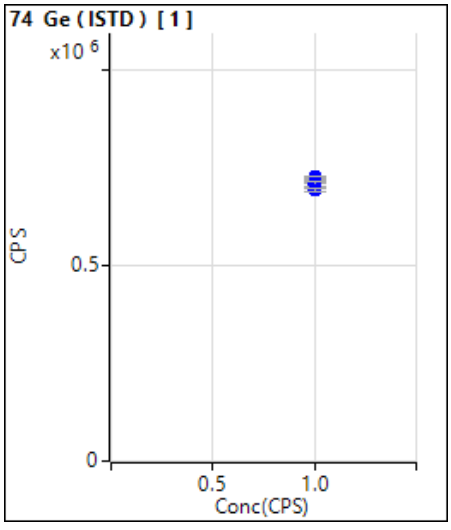
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		519909.21		P	0.7	
2	☐	1.000		523883.94		P	0.5	
3	☐	1.000		519580.07		P	0.6	
4	☐	1.000		525546.41		P	1.6	
5	☐	1.000		522181.26		P	0.5	
6	☐	1.000		507829.54		P	0.9	
7	☐	1.000		514281.95		P	0.2	
8	☐	1.000		519149.93		P	0.9	
9	☐	1.000		512357.23		P	0.9	
10	☐	1.000		502280.79		P	1.4	



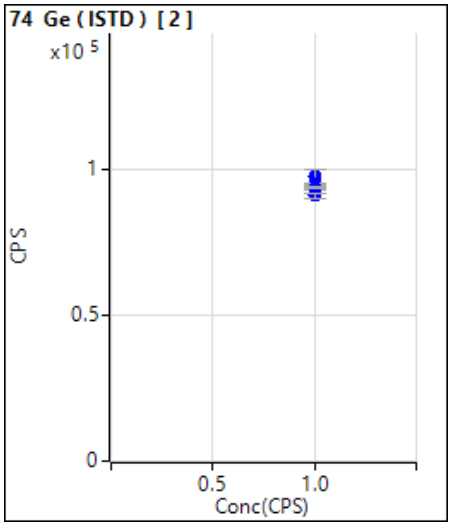
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		61905.89		P	1.3	
2	☐	1.000		61981.57		P	1.0	
3	☐	1.000		64516.04		P	5.8	
4	☐	1.000		61865.54		P	1.0	
5	☐	1.000		62934.11		P	1.8	
6	☐	1.000		62193.53		P	0.7	
7	☐	1.000		62354.17		P	0.7	
8	☐	1.000		62834.80		P	0.2	
9	☐	1.000		61148.50		P	0.4	
10	☐	1.000		60694.60		P	2.1	



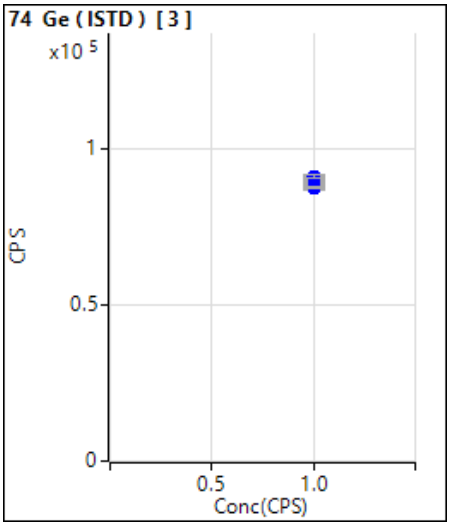
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		58557.91		P	0.8	
2	☐	1.000		58923.75		P	1.2	
3	☐	1.000		59867.19		P	0.2	
4	☐	1.000		58526.82		P	1.7	
5	☐	1.000		58783.38		P	1.4	
6	☐	1.000		58796.68		P	1.5	
7	☐	1.000		59161.29		P	0.4	
8	☐	1.000		59965.25		P	1.2	
9	☐	1.000		58241.38		P	0.5	
10	☐	1.000		57145.19		P	0.7	



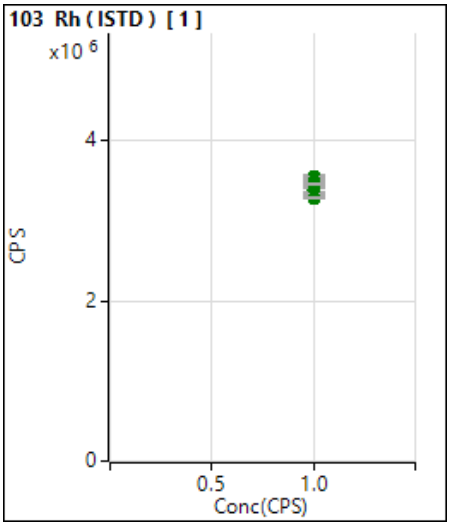
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		716492.36		P	0.8	
2	☐	1.000		724157.93		P	0.6	
3	☐	1.000		720225.98		P	0.6	
4	☐	1.000		722660.51		P	1.2	
5	☐	1.000		723344.03		P	0.8	
6	☐	1.000		704271.66		P	1.3	
7	☐	1.000		719400.75		P	0.5	
8	☐	1.000		726640.74		P	0.3	
9	☐	1.000		707242.54		P	1.7	
10	☐	1.000		690900.43		P	1.1	



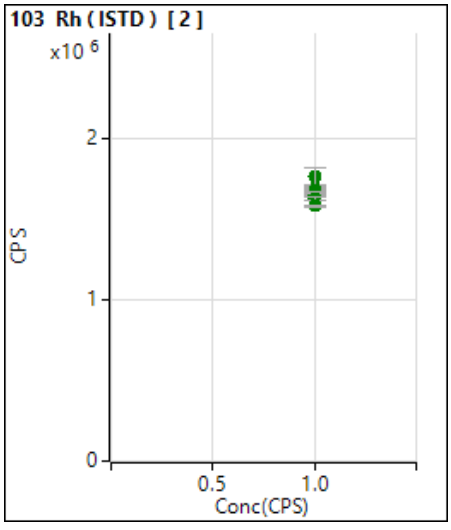
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		93442.13		P	0.7	
2	☐	1.000		93292.54		P	1.0	
3	☐	1.000		97716.12		P	4.8	
4	☐	1.000		94343.19		P	0.8	
5	☐	1.000		94608.96		P	0.6	
6	☐	1.000		93814.72		P	2.1	
7	☐	1.000		93746.36		P	0.4	
8	☐	1.000		95070.65		P	0.5	
9	☐	1.000		93797.81		P	0.4	
10	☐	1.000		91002.17		P	2.0	



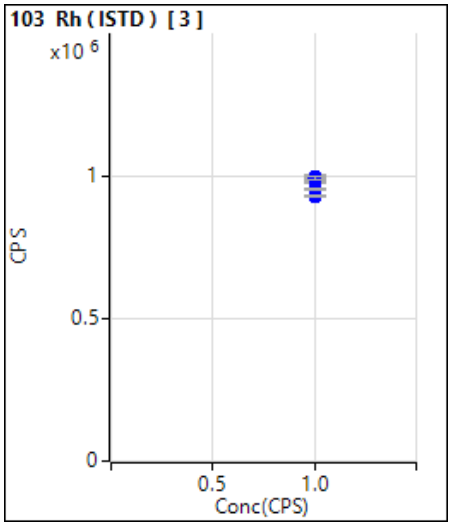
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		88898.46		P	1.0	
2	☐	1.000		89170.80		P	0.2	
3	☐	1.000		90228.06		P	1.2	
4	☐	1.000		89420.16		P	0.8	
5	☐	1.000		90790.95		P	0.8	
6	☐	1.000		90178.78		P	0.8	
7	☐	1.000		90882.65		P	1.0	
8	☐	1.000		91354.41		P	0.6	
9	☐	1.000		87258.68		P	0.5	
10	☐	1.000		87664.43		P	0.3	



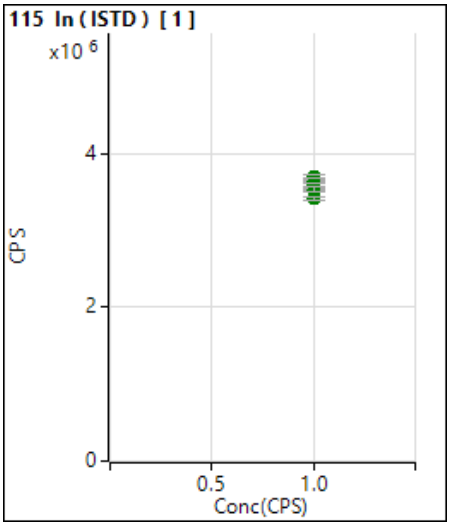
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3555740.26		A	0.7	
2	☐	1.000		3538658.80		A	0.4	
3	☐	1.000		3492586.51		A	0.6	
4	☐	1.000		3483828.59		A	0.8	
5	☐	1.000		3469075.68		A	1.1	
6	☐	1.000		3383857.97		A	0.7	
7	☐	1.000		3442569.53		A	0.7	
8	☐	1.000		3462705.47		A	0.5	
9	☐	1.000		3335415.06		A	0.5	
10	☐	1.000		3285191.31		A	0.8	



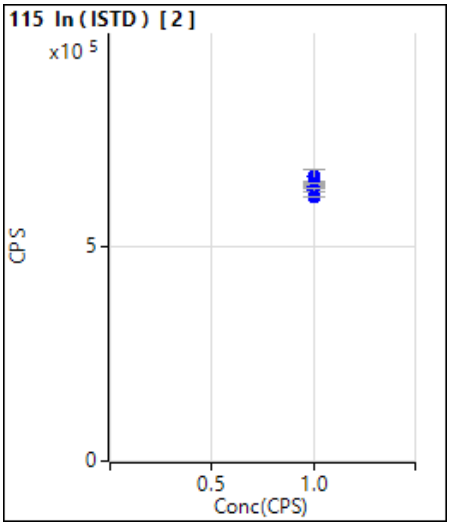
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1692884.10		A	1.4	
2	☐	1.000		1679315.66		A	0.0	
3	☐	1.000		1769448.92		A	5.8	
4	☐	1.000		1682333.58		A	1.0	
5	☐	1.000		1679499.45		A	0.8	
6	☐	1.000		1648671.77		A	0.6	
7	☐	1.000		1652207.47		A	0.8	
8	☐	1.000		1672180.46		A	0.7	
9	☐	1.000		1630354.97		A	0.9	
10	☐	1.000		1584302.30		A	0.5	



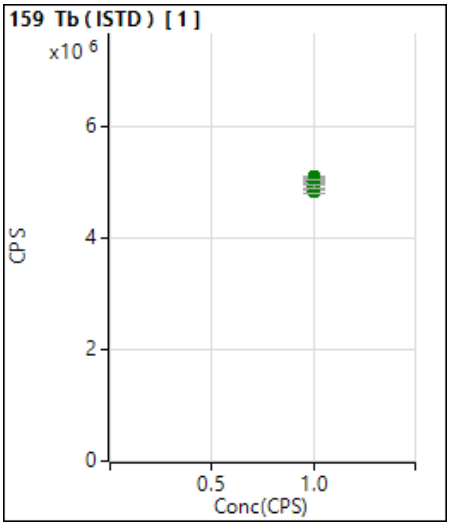
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		979507.11		P	0.5	
2	☐	1.000		978869.41		P	0.2	
3	☐	1.000		991078.95		P	0.6	
4	☐	1.000		987644.23		P	0.5	
5	☐	1.000		995857.43		P	1.4	
6	☐	1.000		999794.48		P	1.3	
7	☐	1.000		992481.42		P	0.2	
8	☐	1.000		992112.95		P	1.0	
9	☐	1.000		956524.48		P	0.5	
10	☐	1.000		930158.23		P	0.2	



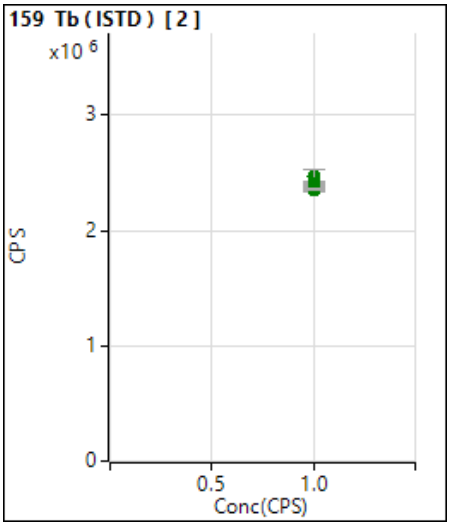
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3666412.32		A	0.7	
2	☐	1.000		3707128.85		A	1.1	
3	☐	1.000		3624656.55		A	0.7	
4	☐	1.000		3644523.08		A	1.9	
5	☐	1.000		3594045.30		A	0.8	
6	☐	1.000		3518158.77		A	0.7	
7	☐	1.000		3570828.03		A	0.5	
8	☐	1.000		3591755.37		A	1.0	
9	☐	1.000		3537731.11		A	1.9	
10	☐	1.000		3417761.14		A	1.6	



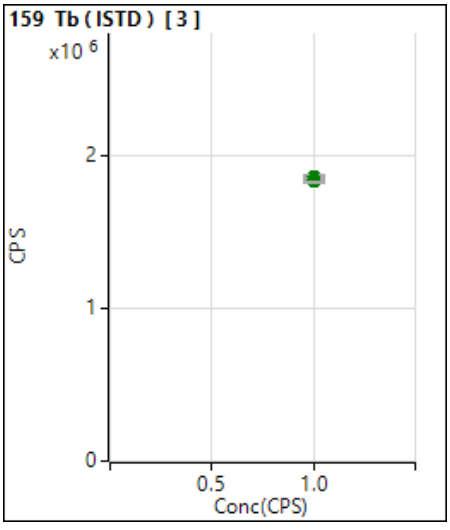
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		638031.63		P	0.1	
2	☐	1.000		643763.18		P	0.9	
3	☐	1.000		664121.79		P	5.4	
4	☐	1.000		643507.97		P	0.6	
5	☐	1.000		649253.91		P	0.5	
6	☐	1.000		639894.28		P	1.8	
7	☐	1.000		643527.98		P	0.4	
8	☐	1.000		645413.53		P	0.4	
9	☐	1.000		632228.98		P	0.9	
10	☐	1.000		616073.55		P	0.6	



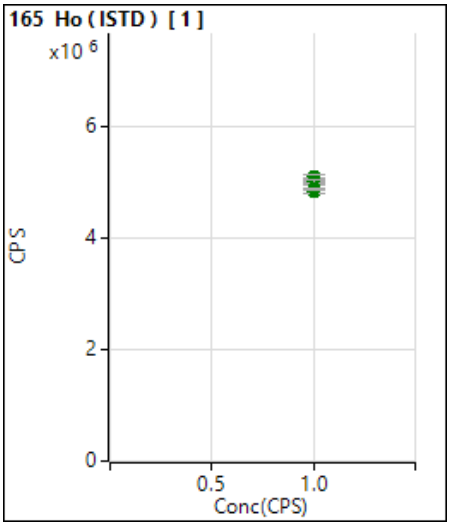
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5064542.53		A	1.3	
2	☐	1.000		5097637.94		A	0.5	
3	☐	1.000		5032083.36		A	0.5	
4	☐	1.000		4995697.84		A	0.8	
5	☐	1.000		4999943.89		A	1.0	
6	☐	1.000		4819518.16		A	1.0	
7	☐	1.000		4973527.53		A	0.7	
8	☐	1.000		5047160.86		A	0.5	
9	☐	1.000		5017598.88		A	1.2	
10	☐	1.000		4911484.93		A	1.4	



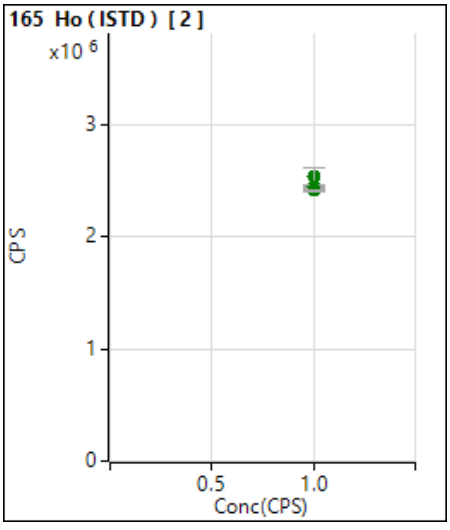
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2382802.54		A	0.4	
2	☐	1.000		2399582.75		A	0.4	
3	☐	1.000		2468615.60		A	5.3	
4	☐	1.000		2365006.57		A	0.7	
5	☐	1.000		2412936.08		A	0.7	
6	☐	1.000		2350274.77		A	0.8	
7	☐	1.000		2377946.01		A	0.9	
8	☐	1.000		2397231.22		A	0.3	
9	☐	1.000		2387671.85		A	0.6	
10	☐	1.000		2358942.27		A	0.9	



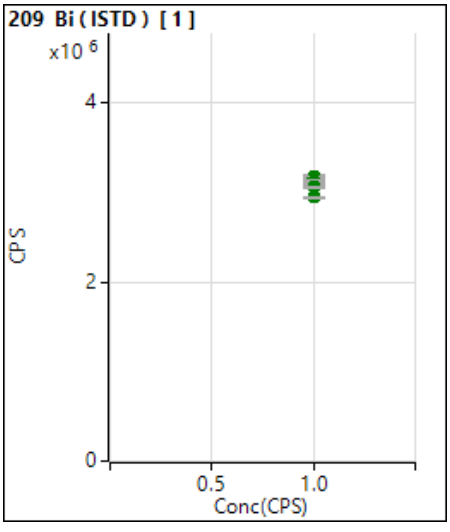
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1854289.37		A	1.5	
2	☐	1.000		1832456.73		A	0.7	
3	☐	1.000		1864609.51		A	0.8	
4	☐	1.000		1834928.68		A	0.3	
5	☐	1.000		1845772.63		A	1.4	
6	☐	1.000		1849027.15		A	1.2	
7	☐	1.000		1852183.54		A	1.0	
8	☐	1.000		1867437.84		A	1.5	
9	☐	1.000		1843474.30		A	1.7	
10	☐	1.000		1829360.48		A	0.9	



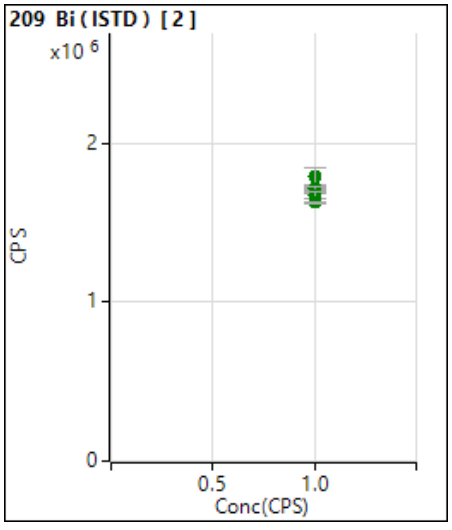
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5034589.82		A	0.3	
2	☐	1.000		5102169.61		A	0.9	
3	☐	1.000		4976263.26		A	1.0	
4	☐	1.000		4978245.65		A	1.2	
5	☐	1.000		4980797.53		A	0.6	
6	☐	1.000		4830022.22		A	1.5	
7	☐	1.000		5002018.15		A	1.0	
8	☐	1.000		5010355.03		A	0.8	
9	☐	1.000		5003319.82		A	1.3	
10	☐	1.000		4872540.55		A	1.0	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2428573.65		A	1.7	
2	☐	1.000		2436310.80		A	0.2	
3	☐	1.000		2540752.75		A	6.1	
4	☐	1.000		2429566.99		A	0.2	
5	☐	1.000		2440280.11		A	0.2	
6	☐	1.000		2415133.03		A	1.1	
7	☐	1.000		2432234.56		A	0.7	
8	☐	1.000		2441984.28		A	0.6	
9	☐	1.000		2451665.39		A	1.6	
10	☐	1.000		2415073.10		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3136110.68		A	0.9	
2	☐	1.000		3150569.33		A	0.4	
3	☐	1.000		3147571.41		A	0.1	
4	☐	1.000		3169973.81		A	1.5	
5	☐	1.000		3183095.89		A	0.2	
6	☐	1.000		3098153.39		A	1.1	
7	☐	1.000		3114408.29		A	0.7	
8	☐	1.000		3132206.31		A	0.9	
9	☐	1.000		3061789.75		A	0.9	
10	☐	1.000		2943633.29		A	1.0	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1712331.70		A	0.7	
2	☐	1.000		1716317.09		A	0.8	
3	☐	1.000		1793747.25		A	6.0	
4	☐	1.000		1718553.09		A	1.1	
5	☐	1.000		1708547.50		A	0.6	
6	☐	1.000		1690709.93		A	1.2	
7	☐	1.000		1718688.58		A	1.9	
8	☐	1.000		1713275.07		A	1.7	
9	☐	1.000		1673197.12		A	2.3	
10	☐	1.000		1628409.45		A	0.4	

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Method: SGS Operator: Admin Date of Analysis: 25 Aug 2022 11:22:36

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
STDA - 1	25 Aug 2022 11:23:05	S	ug/l	-	-1294	1.000	1.000
STDB - 1	25 Aug 2022 11:26:13	S	ug/l	-	1767	1.000	1.000
STDC - 1	25 Aug 2022 11:29:30	S	ug/l	-	3990	1.000	1.000
STDD - 1	25 Aug 2022 11:32:54	S	ug/l	-	10942	1.000	1.000
STDE - 1	25 Aug 2022 11:36:00	S	ug/l	-	25910	1.000	1.000
STDF - 1	25 Aug 2022 11:40:59	S	ug/l	-	49701	1.000	1.000
STDD - 1	25 Aug 2022 11:46:46	S	ug/l	-	10329	1.000	1.000
SAMPLECONF - 1	25 Aug 2022 11:50:27	U	ug/l	-0.1711	-2281	1.000	1.000
ICV - 1	25 Aug 2022 11:52:24	C	ug/l	3.1361	31381	1.000	1.000
ICB - 1	25 Aug 2022 11:54:06	C	ug/l	-0.0808	-1362	1.000	1.000
CCV - 1	25 Aug 2022 11:55:56	C	ug/l	2.5649	25567	1.000	1.000
CCB - 1	25 Aug 2022 11:57:34	C	ug/l	-0.0889	-1444	1.000	1.000
CRI - 1	25 Aug 2022 11:59:44	C	ug/l	0.1994	1490	1.000	1.000
MP34779-MB1 - 1	25 Aug 2022 12:05:12	U	ug/l	-0.0934	-1490	1.000	1.000
MP34779-B1 - 1	25 Aug 2022 12:06:43	U	ug/l	1.8941	18739	1.000	1.000
MP34779-S1 - 1	25 Aug 2022 12:10:48	U	ug/l	1.9386	19192	1.000	1.000
MP34779-S2 - 1	25 Aug 2022 12:17:11	U	ug/l	2.0339	20162	1.000	1.000
MP34779-LC1 - 1	25 Aug 2022 12:19:18	U	ug/l	51.3179	9907	1.000	50.000
SAMPLECONF - 1	25 Aug 2022 12:21:16	U	ug/l	42.4854	8109	1.000	50.000
JD49740-1 - 1	25 Aug 2022 12:22:48	U	ug/l	-0.0049	-589	1.000	1.000
JD50305-1 - 1	25 Aug 2022 12:27:03	U	ug/l	0.3441	2963	1.000	1.000
CCV - 1	25 Aug 2022 12:28:46	C	ug/l	2.4118	24009	1.000	1.000
CCB - 1	25 Aug 2022 12:30:19	C	ug/l	-0.0483	-1031	1.000	1.000
MP34779-LC2 - 1	25 Aug 2022 12:34:43	U	ug/l	50.2912	9698	1.000	50.000
CCV - 1	25 Aug 2022 12:38:57	C	ug/l	2.5259	25170	1.000	1.000
CCB - 1	25 Aug 2022 12:42:45	C	ug/l	0.0117	-421	1.000	1.000
JD49335-1 - 1	25 Aug 2022 12:48:45	U	ug/l	0.0644	116	1.000	1.000
JD49335-2 - 1	25 Aug 2022 12:50:09	U	ug/l	-0.0198	-741	1.000	1.000
JD49335-3 - 1	25 Aug 2022 12:53:21	U	ug/l	0.0701	174	1.000	1.000
SAMPLECONF - 1	25 Aug 2022 12:54:52	U	ug/l	0.0530	0	1.000	1.000
JD49335-4 - 1	25 Aug 2022 12:56:05	U	ug/l	0.0924	401	1.000	1.000
JD49335-5 - 1	25 Aug 2022 12:57:36	U	ug/l	0.0143	-394	1.000	1.000
JD49848-1 - 1	25 Aug 2022 12:59:07	U	ug/l	15.5506	157740	1.000	1.000
SAMPLECONF - 1	25 Aug 2022 13:00:38	C	ug/l	(L)0.7642	7239	1.000	1.000
CCV - 1	25 Aug 2022 13:03:18	C	ug/l	2.5287	25198	1.000	1.000
CCB - 1	25 Aug 2022 13:07:39	C	ug/l	-0.0307	-852	1.000	1.000
JD49848-2 - 1	25 Aug 2022 13:13:03	U	ug/l	7.4065	74846	1.000	1.000
JD49848-3 - 1	25 Aug 2022 13:14:50	U	ug/l	9.5098	96254	1.000	1.000
JD49848-4 - 1	25 Aug 2022 13:17:01	U	ug/l	8.0187	81077	1.000	1.000
JD49848-5 - 1	25 Aug 2022 13:23:24	X	ug/l	HIGH	102331	1.000	1.000
JD49848-6 - 1	25 Aug 2022 13:26:54	U	ug/l	5.7560	58047	1.000	1.000
JD49400-1 - 1	25 Aug 2022 13:30:42	U	ug/l	0.0181	-355	1.000	1.000
CCV - 1	25 Aug 2022 13:32:57	C	ug/l	2.3263	23138	1.000	1.000
CCB - 1	25 Aug 2022 13:36:51	C	ug/l	-0.0656	-1207	1.000	1.000
JD49694-1 - 1	25 Aug 2022 13:41:07	U	ug/l	0.6488	6064	1.000	1.000
JD49694-2 - 1	25 Aug 2022 13:42:48	U	ug/l	0.3395	2916	1.000	1.000
JD50347-1 - 1	25 Aug 2022 13:47:17	U	ug/l	0.0910	387	1.000	1.000
JD50367-1 - 1	25 Aug 2022 13:53:42	U	ug/l	0.7634	7231	1.000	1.000
JD50367-3 - 1	25 Aug 2022 14:00:07	U	ug/l	0.1663	1153	1.000	1.000
JD50367-5 - 1	25 Aug 2022 14:03:05	U	ug/l	0.8012	7615	1.000	1.000
CCV - 1	25 Aug 2022 14:09:31	C	ug/l	2.5827	25748	1.000	1.000
CCB - 1	25 Aug 2022 14:15:55	C	ug/l	-0.0654	-1205	1.000	1.000
SAMPLECONF - 1	25 Aug 2022 14:18:02	U	ug/l	0.0530	0	1.000	1.000
MP34780-MB1 - 1	25 Aug 2022 14:20:24	U	ug/l	0.0101	-437	1.000	1.000
MP34780-B1 - 1	25 Aug 2022 14:22:05	U	ug/l	1.9800	19614	1.000	1.000
MP34780-S1 - 1	25 Aug 2022 14:23:46	U	ug/l	2.9086	29065	1.000	1.000
MP34780-S2 - 1	25 Aug 2022 14:25:27	U	ug/l	2.9629	29618	1.000	1.000
JD50098-1 - 1	25 Aug 2022 14:27:08	U	ug/l	1.2098	11774	1.000	1.000
JD50098-3 - 1	25 Aug 2022 14:28:49	U	ug/l	1.8741	18536	1.000	1.000
CCV - 1	25 Aug 2022 14:30:30	C	ug/l	2.3814	23699	1.000	1.000
CCB - 1	25 Aug 2022 14:32:12	C	ug/l	-0.1235	-1797	1.000	1.000
JD49929-1 - 1	25 Aug 2022 14:33:53	U	ug/l	-0.0063	-604	1.000	1.000

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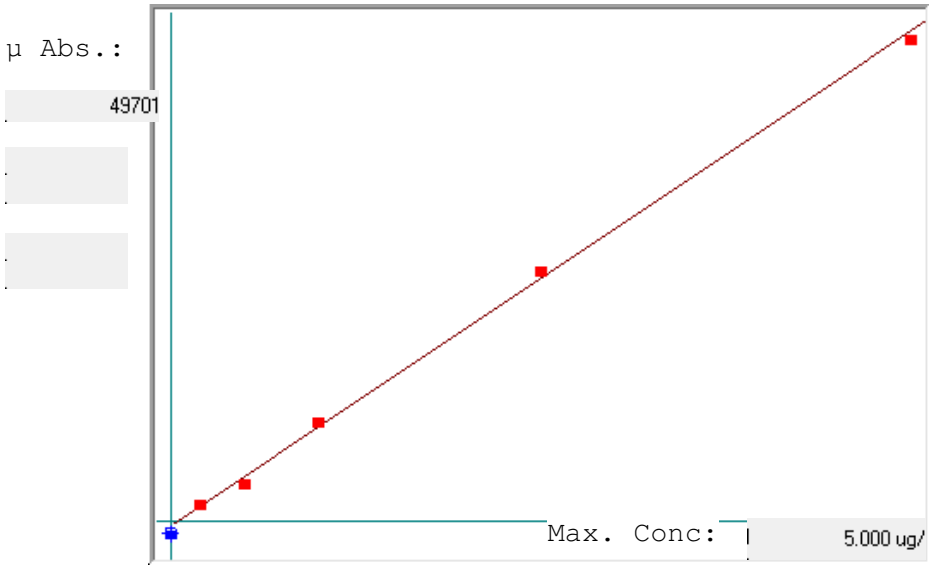
Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
JD49929-2 - 1	25 Aug 2022 14:35:34	U	ug/l	0.0865	341	1.000	1.000
JD49929-3 - 1	25 Aug 2022 14:37:16	U	ug/l	0.0661	133	1.000	1.000
JD49929-4 - 1	25 Aug 2022 14:38:58	U	ug/l	0.1714	1205	1.000	1.000
JD49929-5 - 1	25 Aug 2022 14:40:41	U	ug/l	0.1934	1429	1.000	1.000
JD49929-6 - 1	25 Aug 2022 14:42:23	U	ug/l	0.3779	3307	1.000	1.000
JD49929-7 - 1	25 Aug 2022 14:44:06	U	ug/l	0.1636	1126	1.000	1.000
CCV - 1	25 Aug 2022 14:45:48	C	ug/l	2.4528	24426	1.000	1.000
CCB - 1	25 Aug 2022 14:47:29	C	ug/l	-0.1413	-1978	1.000	1.000
JD50189-1 - 1	25 Aug 2022 14:49:10	U	ug/l	0.4125	3659	1.000	1.000
JD50189-4 - 1	25 Aug 2022 14:50:51	U	ug/l	0.0590	61	1.000	1.000
JD50189-6 - 1	25 Aug 2022 14:52:32	U	ug/l	0.4313	3850	1.000	1.000
JD50189-7 - 1	25 Aug 2022 14:54:13	U	ug/l	0.0782	256	1.000	1.000
JD50189-8 - 1	25 Aug 2022 14:55:55	U	ug/l	0.2056	1553	1.000	1.000
JD50172-1 - 1	25 Aug 2022 14:57:35	U	ug/l	0.5427	4984	1.000	1.000
JD50172-2 - 1	25 Aug 2022 14:59:16	U	ug/l	0.5855	5420	1.000	1.000
CCV - 1	25 Aug 2022 15:00:58	C	ug/l	2.6523	26456	1.000	1.000
CCB - 1	25 Aug 2022 15:02:40	C	ug/l	-0.0539	-1088	1.000	1.000
MP34781-MB1 - 1	25 Aug 2022 15:04:21	U	ug/l	0.0873	349	1.000	1.000
MP34781-B1 - 1	25 Aug 2022 15:06:03	U	ug/l	1.8461	18251	1.000	1.000
MP34781-S1 - 1	25 Aug 2022 15:07:46	U	ug/l	1.8691	18485	1.000	1.000
MP34781-S2 - 1	25 Aug 2022 15:09:29	U	ug/l	1.7764	17541	1.000	1.000
DA48177-1 - 1	25 Aug 2022 15:11:12	U	ug/l	0.0364	-169	1.000	1.000
CCV - 1	25 Aug 2022 15:12:53	C	ug/l	2.3953	23841	1.000	1.000
CCB - 1	25 Aug 2022 15:14:35	C	ug/l	-0.0948	-1505	1.000	1.000
JD49848-1 - 1	25 Aug 2022 15:33:00	U	ug/l	16.0496	32132	1.000	5.000
JD49848-2 - 1	25 Aug 2022 15:34:41	U	ug/l	6.8356	34248	1.000	2.000
JD49848-3 - 1	25 Aug 2022 15:36:22	U	ug/l	8.9045	17587	1.000	5.000
JD49848-4 - 1	25 Aug 2022 15:38:04	U	ug/l	8.5081	16780	1.000	5.000
JD49848-5 - 1	25 Aug 2022 15:39:45	U	ug/l	42.3675	8085	1.000	50.000
JD49848-6 - 1	25 Aug 2022 15:41:26	U	ug/l	5.5313	27610	1.000	2.000
CCV - 1	25 Aug 2022 15:43:53	C	ug/l	2.4517	24415	1.000	1.000
CCB - 1	25 Aug 2022 15:47:10	C	ug/l	-0.0806	-1360	1.000	1.000

SGS

Linear



A= 0.0000e+000

B= 9.8248e-005

C= 5.3017e-002

Rho= 0.9992500

Accept= Accepted

11.4.1

11

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	-0.074	-0.074	-1294	0.000	-1294				
STDB	0.200	0.227	0.027	1767	0.0 %	1767				
STDC	0.500	0.445	-0.055	3990	0.0 %	3990				
STDD	1.000	1.068	0.068	10329	0.0 %	10329				
STDE	2.500	2.599	0.099	25910	0.0 %	25910				
STDF	5.000	4.936	-0.064	49701	0.0 %	49701				

SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3C.

MA Batch #: MA52905
Analyst: LM
Date: 8/24/2022
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-82

Hot Block # HG-7 Start Time: 17:00 End Time: 17:30 Tube # 1-36.
Start Temp: 93 Corrected Start Temp: 92 Correction: -1 Thermometer ID: 3124942.
End Temp: 97 Corrected Start Temp: 96 Correction: -1 Thermometer ID: 3124942.
Hot Block # HG-7 Start Time: 17:30 End Time: 18:00 Tube # 37-51.
Start Temp: 97 Corrected Start Temp: 96 Correction: -1 Thermometer ID: 3124942.
End Temp: 93 Corrected Start Temp: 92 Correction: -1 Thermometer ID: 3124942.

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
1	MP34779-MB1	0.6000	100				MP34779	
2	MP34779-B1	0.6000	100	2.0ml	Y	0.1		HG-22-162-395-HGA1, IN. V.
3	MP34779-S1	0.7096	100	2.0ml	Y	0.1		JD49740-1, HG-22-162-395-HGA1, IN. V.
4	MP34779-S2	0.6807	100	2.0ml	Y	0.1		JD49740-1, HG-22-162-395-HGA1, IN. V.
5	MP34779-LC1	0.6041	100					
6	MP34779-LC2	0.6049	100					
7	JD49740-1	0.6143	100					
8	JD49335-1	0.6449	100					
9	JD49335-2	0.7966	100					
10	JD49335-3	0.6586	100					
11	JD49335-4	0.6974	100					
12	JD49335-5	0.7355	100					
13	JD49848-1	0.7202	100					MAMCP
14	JD49848-2	0.6571	100					MAMCP
15	JD49848-3	0.6575	100					MAMCP
16	JD49848-4	0.7733	100					MAMCP
17	JD49848-5	0.6559	100					MAMCP
18	JD49848-6	0.7628	100					MAMCP
19	JD49400-1	0.6100	100					
20	JD49694-1	0.7781	100					
21	JD49694-2	0.6572	100					
22	JD50305-1	0.7797	100					MAMCP
23	JD50347-1	0.6747	100					
24	JD50367-1	0.7512	100					
25	JD50367-3	0.6884	100					
26	JD50367-5	0.7048	100					
27	MP34780-MB1	0.6000	100				MP34780	
28	MP34780-B1	0.6000	100	2.0ml	Y	0.1		HG-22-162-395-HGA1, IN. V.
29	MP34780-S1	0.6502	100	2.0ml	Y	0.1		JD50098-1, HG-22-162-395-HGA1, IN. V.
30	MP34780-S2	0.6261	100	2.0ml	Y	0.1		JD50098-1, HG-22-162-395-HGA1, IN. V.
31	JD50098-1	0.6434	100					
32	JD50098-3	0.7198	100					
33	JD49929-1	0.6378	100					
34	JD49929-2	0.6521	100					
35	JD49929-3	0.6616	100					

11.5.1 11

Form: HG-022F-02
Revision Date:08/24/15

ANALYST: LM
SPIKE WITNESS:
QC REVIERER:

DATE: 8/25/22
DATE:
DATE:

SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3C.

MA Batch #:	MA52905
Analyst:	LM
Date:	8/24/2022
Balance ID:	B-24
Reagents:	See attached sheet
Auto pipet ID:	M-82

Hot Block # HG-7 Start Time: 17:00 End Time: 17:30 Tube # 1-36.
Start Temp: 93 Corrected Start Temp: 92 Correction: -1 Thermometer ID: 3124942.
End Temp: 97 Corrected Start Temp: 96 Correction: -1 Thermometer ID: 3124942.
Hot Block # HG-7 Start Time: 17:30 End Time: 18:00 Tube # 37-51.
Start Temp: 97 Corrected Start Temp: 96 Correction: -1 Thermometer ID: 3124942.
End Temp: 93 Corrected Start Temp: 92 Correction: -1 Thermometer ID: 3124942.

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
36	JD49929-4	0.6790	100					
37	JD49929-5	0.6620	100					
38	JD49929-6	0.7391	100					
39	JD49929-7	0.6721	100					
40	JD50189-1	0.7467	100					
41	JD50189-4	0.7654	100					
42	JD50189-6	0.6123	100					
43	JD50189-7	0.7653	100					
44	JD50189-8	0.7399	100					
45	JD50172-1	0.6150	100					
46	JD50172-2	0.6621	100					
47	MP34781-MB1	0.6000	100				MP34781	TCLP LIQ
48	MP34781-B1	0.6000	100	2.0ml	Y	0.1		HG-22-162-395-HGA1, IN. V.
49	MP34781-S1	0.6000	100	2.0ml	Y	0.1		DA48177-1, HG-22-162-395-HGA1, IN. V.
50	MP34781-S2	0.6000	100	2.0ml	Y	0.1		DA48177-1, HG-22-162-395-HGA1, IN. V.
51	DA48177-1	0.6000	100					
52			100					
53			100					
54			100					
55			100					
56			100					
57			100					
58			100					
59			100					
60			100					
61			100					
62			100					
63			100					
64			100					
65			100					
66			100					
67			100					
68			100					
69			100					
70			100					

11.5.1 11

Form: HG-022F-02
Revision Date:08/24/15

ANALYST: LM
SPIKE WITNESS:
QC REVIERER:

DATE: 9/25/22
DATE:
DATE:

SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

MA Batch #: MA52905
Analyst: LM
Date: 8/24/2022
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-82

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3 C.

Hot Block # HG-7 Start Time: 17:00 End Time: 17:30 Tube # S1-CRI.
Start Temp: 93 Corrected Start Temp: 92 Correction: -1 Thermometer ID: 3124942.
End Temp: 97 Corrected Start Temp: 96 Correction: -1 Thermometer ID: 3124942.

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
S-1	Calibration Blank	0.6	100 ml	0.0 ml	N	N/A	N/A	N/A
S-2	0.20 ug/l standard	0.6	100 ml	2.0 ml	Y	0.0100	N/A	HG-22-162-396-HGA2, IN. V.
S-3	0.50 ug/l standard	0.6	100 ml	5.0 ml	Y	0.0100	N/A	HG-22-162-396-HGA2, IN. V.
S-4	1.00 ug/l standard	0.6	100 ml	1.0 ml	Y	0.1000	N/A	HG-22-162-395-HGA1, IN. V.
S-5	2.50 ug/l standard	0.6	100 ml	2.5 ml	Y	0.1000	N/A	HG-22-162-395-HGA1, IN. V.
S-6	5.00 ug/l standard	0.6	100 ml	5.0 ml	Y	0.1000	N/A	HG-22-162-395-HGA1, IN. V.
ICV	ICV_MA52905 (Exterr	0.6	100 ml	3.0 ml	Y	0.1		HG-22-162-397-HGB1, AGILENT
ICB	ICB	0.6	100 ml	0.0 ml	N	N/A	N/A	
CCV	CCV_MA52905	0.6	100 ml	2.5 ml	Y	0.1		HG-22-162-395-HGA1, IN. V.
CCB	CCB	0.6	100 ml	0.0 ml	N	N/A	N/A	
CRI	CRI	0.6	100 ml	2.0 ml	Y	0.01		HG-22-162-396-HGA2, IN. V.

SGS

Reagent Information Log- Hg Soil

MA # 52905

Reagents	Exp. Date	Reagent # or manufacturer lot #
Conc. Hydrochloric Acid	8/22/2024	Sigma MKCR5064
Conc. Nitric Acid	8/10/2024	Supelco 62047
Sodium Chloride-Hydroxylamine Hydrochloride	1/26/2023	HG-22-163- 92 -HGHCL
Potassium Permanganate	1/26/2023	HG-22-163- 90 -HGKM1
Stannous Chloride	8/26/2022	HG-22-162- 403 -HGS
STD Hg standard solution 1000 ppm	2/14/2023	Inorganic Ventures R2-HG696409
STD Hg standard solution 100 ppb	8/25/2022	HG-22-162- 395 -HGA1
STD Hg standard solution 10 ppb	8/25/2022	HG-22-162- 396 -HGA2
ICV Hg standard solution 1000 ppm	4/30/2026	Agilent CT-1449.
ICV Hg standard solution 100 ppb	8/25/2022	HG-22-162- 397 -HGB1
Solid Lab control/Soil LC	7/6/2024	ERA D112-540
Aqua Regia	8/25/2022	HG-22-162- 399 -HGKAQ
Dilution acid	2/17/2023	HG-22-162- 378 -HGD1
Digestion Tubes (50ml)	N/A	Environmental Express 2204135
Digestion Tubes (100ml)	N/A	Environmental Express 2204135
Teflon Chips (For Soil MB)	N/A	Chemware , Lot: S941-6H028

Form: GN087A80-04
Rev.Date: 06/06/17

SGS North America Inc.

Solids/Soil Metals Digestion Form

Batch Information

Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2
MP34484	2022-08-08	01:20	2022-08-08	05:50	JD49193-5	

Temperature

		Block ID	Therm. ID#	Balance ID	Temperature	Correction	Corrected Temp
1	Start	MP-5	6406059	B-26	92	1	93
1	End	MP-5	6406059	NA	92	1	93
2	Start						
2	End			NA			

Methods and Equipment

	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #	
	SW846 3050B	Digestion Block		M-81	2204135	

Sample ID	Bottle ID	Final Volume (ML)	Wet Weight (G)	Reagent Groups Added	Spike Groups Added	Comments
MP34484-MB1	1	100	1.00	ABCD		
MP34484-B1	1	100	1.00	ABCD	ABCDE	
MP34484-S1	1	100	1.00	ABCD	ABCDE	
MP34484-S2	1	100	1.00	ABCD	ABCDE	
MP34484-SD1	1	100	1.01	ABCD		
JD48158-1R	1	100	0.99	ABCD		
JD48158-2R	1	100	0.97	ABCD		
JD48158-3R	1	100	0.99	ABCD		
JD48158-4R	1	100	1.02	ABCD		
JD49193-1	1	100	1.03	ABCD		
JD49193-10	2	100	1.02	ABCD		
JD49193-2	1	100	1.02	ABCD		
JD49193-3	1	100	1.02	ABCD		
JD49193-4	1	100	1.03	ABCD		
JD49193-5	1	100	1.01	ABCD		
JD49193-6	1	100	1.03	ABCD		
JD49193-7	1	100	0.97	ABCD		
JD49193-8	1	100	0.98	ABCD		
JD49193-9	1	100	1.00	ABCD		
JD49369-1	1	100	1.02	ABCD		
JD49400-1	1	100	1.01	ABCD		

Reagents Groups

Group	Description	MLs Used
A	1:! HNO3	10
B	CONC. HNO3	5
C	H2O2	5
D	CONC. HCL	10
E		
F		
G		
H		

Spike Groups

Group	Description	MLs Used
A	ACCUTETS 13B REV1	1
B	ACCUTEST 14B REV1	1
C	MINERALS 1000 PPM	1
D	AG 20 PPM	0.5
E	SE 20 PPM	1.5
F		
G		
H		

Comments: _____

Analyst SARAHF **Approved by** _____ **Approved on** _____

Note: Reagent traceability for batch Start Date can be seen on the reagent traceability page for this batch.
Serial Dilution samples shown for QC purposes only.
Acceptable Temperature range is 90-95 degrees C unless otherwise noted

Document Control #: NJ-MET-PREP-SO-01 (2456482.5460764432) Validated by: Validated on:

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Halides	GP41687/GN32189	20	0.0	mg/kg	200	214	107.0	80-120%

Associated Samples:
Batch GP41687: JD49400-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN32318	JD49546-1	%	86.7	87	0.3	0-5%

Associated Samples:
Batch GN32318: JD49400-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Halides	GP41687/GN32189	DA47788-1	mg/kg	0.0	214	220	102.8	72-133%

Associated Samples:
Batch GP41687: JD49400-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD49400
Account: TTCOD - Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Total Organic Halides	GP41687/GN32189	DA47788-1	mg/kg	0.0	214	211	4.2	20%

Associated Samples:
Batch GP41687: JD49400-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Percent Solids Raw Data Summary

Job Number: JD49400
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample: JD49400-1 **Analyzed:** 14-AUG-22 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: VDS-WS-01

Wet Weight (Total)	28.83	g
Tare Weight	23.47	g
Dry Weight (Total)	28.48	g
Solids, Percent	93.5	%

General Chemistry

Raw Data

Test: **Total Organic Halides**
Method: **SW846 9023B**

Product: **TOX**
Units: mg/kg

Instrument: TOX-1

Analyst: JO
Date: 08/10/22
GNBatch ID: GN32189

Spreadsheet Revision Date 4/28/08

QC Summary - Batch QC									Units
MB ID GP41484-MB2	Result:	<RL	RL:	20	<RL				
BS ID GP41484-B2	Result:	177	Spike Amt:	200	%Rec.	88.5			
MS ID:	Sample		Spike Amt:		Result:		%Rec	#DIV/0!	
DUP ID:	Sample		Dup		RPD:	#DIV/0!			
Cell Check:	Result:	1076.0000	TV:	1000	%Rec.	107.6			mg/l
Init. Cal Check:	Result:	1017.1000	TV:	1000	%Rec.	101.71	IC Check Avg	965.8667	mgl
Init. Cal Check:	Result:	958.8000	TV:	1000	%Rec.	95.88	SD=	48.09099015	mg/l
Init. Cal Check:	Result:	921.7000	TV:	1000	%Rec.	92.17	%RSD=	4.98%	mg/l
Cal Check Solution	Result:	970.2000	TV:	1000	%Rec.	97.02			mg/l
Cal Check Solution	Result:	964.8000	TV:	1000	%Rec.	96.48			mg/l
Cal Check Solution	Result:	905.2000	TV:	1000	%Rec.	90.52			mg/l
Cal Check Solution	Result:	1005.9000	TV:	1000	%Rec.	100.59			mg/l
Cal Check Solution	Result:	954.2000	TV:	1000	%Rec.	95.42			mg/l
Cal Check Solution	Result:	900.1000	TV:	1000	%Rec.	90.01			mg/l

Sample ID	%solids (for reference only)	Sample weight extracted	Total Extract Volume	Factor	Volume injected in ul	Result in ug	Calculated Result (ug/g)	Final Result (mg/kg) wet weight	RL	Dilution factor
Cell Check	NA	5	5	1.0000	5.0	5.3800	1076.0000	1076.000	100	5
Cal Check	NA	5	5	1.0000	10.0	10.1710	1017.1000	1017.100	50	2.5
Cal Check	NA	5	5	1.0000	10.0	9.5880	958.8000	958.800	50	2.5
Cal Check	NA	5	5	1.0000	10.0	9.2170	921.7000	921.700	50	2.5
GP41484-MB2		5	5	1.0000	25.0	0.1780	7.1200	7.120	20	1
GP41484-B2		5	5	1.0000	25.0	4.4250	177.0000	177.000	20	1
GP41484-S1conf		5.42	5	0.9225	25.0	4.4870	165.5720	165.572	18.4501845	1
GP41484-MSD1conf		5.51	5	0.9074	25.0	4.6290	168.0218	168.022	18.1488203	1
JD48894-13conf		5.39	5	0.9276	25.0	0.1970	7.3098	7.310	18.5528757	1
JD48894-14conf		5.48	5	0.9124	25.0	0.0660	2.4088	2.409	18.2481752	1
JD48894-15conf		5.15	5	0.9709	25.0	0.1810	7.0291	7.029	19.4174757	1
JD48894-16conf		5.33	5	0.9381	25.0	0.1200	4.5028	4.503	18.7617261	1
CalCheckCONF	NA	5	5	1.0000	10.0	9.7020	970.2000	970.200	50	2.5
JD48894-17conf		5.63	5	0.8881	25.0	0.2420	8.5968	8.597	17.7619893	1
JD48894-18conf		5.13	5	0.9747	25.0	0.0660	2.5731	2.573	19.4931774	1
JD48894-19conf		5.24	5	0.9542	25.0	0.1960	7.4809	7.481	19.0839695	1
JD48894-20conf		5.51	5	0.9074	25.0	0.1900	6.8966	6.897	18.1488203	1
JD48894-21conf		5.49	5	0.9107	25.0	0.0760	2.7687	2.769	18.2149362	1
JD48894-22conf		5.37	5	0.9311	25.0	0.1440	5.3631	5.363	18.6219739	1
JD48894-23conf		5.73	5	0.8726	25.0	0.1200	4.1885	4.188	17.452007	1
JD48894-24conf		5.39	5	0.9276	25.0	0.1370	5.0835	5.083	18.5528757	1
CalCheckCONF	NA	5	5	1.0000	10.0	9.6480	964.8000	964.800	50	2.5
conf			5	#DIV/0!	25.0		#DIV/0!	#DIV/0!	#DIV/0!	1
conf			5	#DIV/0!	25.0		#DIV/0!	#DIV/0!	#DIV/0!	1
conf			5	#DIV/0!	25.0		#DIV/0!	#DIV/0!	#DIV/0!	1
conf			5	#DIV/0!	25.0		#DIV/0!	#DIV/0!	#DIV/0!	1
conf			5	#DIV/0!	25.0		#DIV/0!	#DIV/0!	#DIV/0!	1
conf			5	#DIV/0!	25.0		#DIV/0!	#DIV/0!	#DIV/0!	1
conf			5	#DIV/0!	25.0		#DIV/0!	#DIV/0!	#DIV/0!	1
CalCheckCONF	NA	5	5	1.0000	10.0	9.0520	905.2000	905.200	50	2.5
JD49283-2		4.91	5	1.0183	25.0	0.2020	8.2281	8.228	20.3665988	1
JD49283-3		4.94	5	1.0121	25.0	0.0720	2.9150	2.915	20.242915	1
JD49284-1		4.96	5	1.0081	25.0	0.1380	5.5645	5.565	20.1612903	1
JD49284-2		4.96	5	1.0081	25.0	0.1360	5.4839	5.484	20.1612903	1
JD49284-3		4.87	5	1.0267	25.0	0.0940	3.8604	3.860	20.5338809	1
JD49284-4		5.04	5	0.9921	25.0	0.0750	2.9762	2.976	19.8412698	1
JD49284-5		5.11	5	0.9785	25.0	0.0760	2.9746	2.975	19.5694716	1
GP41687-MB1		5	5	1.0000	25.0	0.0890	3.5600	3.560	20	1
CalCheckCONF	NA	5	5	1.0000	10.0	10.0590	1005.9000	1005.900	50	2.5
GP41687-B1		5	5	1.0000	25.0	5.3500	214.0000	214.000	20	1
GP41687-S1		5.12	5	0.9766	25.0	5.2730	205.9766	205.977	19.53125	1
GP41687-MSD1		5.12	5	0.9766	25.0	5.0540	197.4219	197.422	19.53125	1
DA477881		5.09	5	0.9823	25.0	0.1320	5.1866	5.187	19.6463654	1
JD49368-1		5.4	5	0.9259	25.0	1.2210	45.2222	45.222	18.5185185	1
JD49405-1		5.08	5	0.9843	25.0	0.0220	0.8661	0.866	19.6850394	1
JD49405-2		4.98	5	1.0040	25.0	0.0690	2.7711	2.771	20.0803213	1
JD49405-3		5.12	5	0.9766	25.0	0.0740	2.8906	2.891	19.53125	1

CalCheckCONF	NA	5	5	1.0000	10.0	9.5420	954.2000	954.200	50	2.5
DA47788-2		5.12	5	0.9766	25.0	0.1660	6.4844	6.484	19.53125	1
JD49400-1		1.11	5	4.5045	25.0	0.1600	28.8288	28.829	90.0900901	1
JD49512-1		5.41	5	0.9242	25.0	0.0830	3.0684	3.068	18.4842884	1
JD49622-2		5.15	5	0.9709	25.0	0.1010	3.9223	3.922	19.4174757	1
JD49622-3		4.83	5	1.0352	25.0	0.0700	2.8986	2.899	20.7039337	1
JD49478-1		5.11	5	0.9785	25.0	0.0850	3.3268	3.327	19.5694716	1
JD49478-2		5	5	1.0000	25.0	0.3770	15.0800	15.080	20	1
JD49712-1		5.03	5	0.9940	25.0	0.3770	14.9901	14.990	19.8807157	1
CalCheckCONF	NA	5	5	1.0000	10.0	9.0010	900.1000	900.100	50	2.5

Analyst: JO

Date: 08/10/22

GNBatch ID: GN32189

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Validated By: Hemex Patel

Validated Date: 8/18/2017

Document Control #: AGN-TOX-SO-02

TSX-Cl Results

Accessory: ABC

Sample Results

Data ID	Sample ID	Date/Time	Reps.	Sample Size	Density	D.Rate	Counts1	S. L. N K	Counts2	S. L. N K	Counts3	S. L. N K	Blank	Conc.	ppm	Conc.X̄	Conc.RSD	%Brkthru
TSXC08092022.001	CCV	8/9/2022 10:57	1	10.00 ul	1.0000		10.171						0.000	0.10 %	1000			
TSXC08092022.001	CCV	8/9/2022 14:06	2	10.00 ul	1.0000		9.588						0.000	958.80 ppm	958.8			
TSXC08092022.001	CCV	8/9/2022 14:28	3	10.00 ul	1.0000		9.217						0.000	921.70 ppm	921.7			
TSXC08092022.001	GP41484-MB2	8/9/2022 14:34	1	25.00 ul	1.0000	1	0.173						0.000	6.92 ppm	6.92	6.92	******	
TSXC08092022.001	GP41484-b2	8/9/2022 14:58	1	25.00 ul	1.0000	1	4.426						0.000	177.04 ppm	177.04	177.04	******	
TSXC08092022.001	GP41484-S1CONF	8/9/2022 15:16	1	25.00 ul	1.0000	1.084	4.485						0.000	165.50 ppm	165.5	165.5	******	
TSXC08092022.001	GP41484-MSD1C(	8/9/2022 15:33	1	25.00 ul	1.0000	1.102	4.629						0.000	168.02 ppm	168.02	168.02	******	
TSXC08092022.001	JD48894-13CONF	8/9/2022 15:40	1	25.00 ul	1.0000	1.078	0.197						0.000	7.31 ppm	7.31	7.31	******	
TSXC08092022.001	JD48894-14CONF	8/9/2022 15:47	1	25.00 ul	1.0000	1.096	0.066						0.000	2.41 ppm	2.41	2.41	******	
TSXC08092022.001	JD48894-15CONF	8/9/2022 16:17	1	25.00 ul	1.0000	1.03	0.181						0.000	7.03 ppm	7.03	7.03	******	
TSXC08092022.001	JD48894-16CONF	8/9/2022 16:28	1	25.00 ul	1.0000	1.066	0.120						0.000	4.50 ppm	4.5	4.5	******	
TSXC08092022.001	CCV	8/9/2022 16:47	4	10.00 ul	1.0000		9.702						0.000	970.20 ppm	970.2			
TSXC08092022.001	JD48894-17CONF	8/9/2022 16:56	1	25.00 ul	1.0000	1.126	0.242						0.000	8.60 ppm	8.6	8.6	******	
TSXC08092022.001	JD48894-18CONF	8/9/2022 17:03	1	25.00 ul	1.0000	1.026	0.066						0.000	2.57 ppm	2.57	2.57	******	
TSXC08092022.001	JD48894-19CONF	8/9/2022 17:12	1	25.00 ul	1.0000	1.048	0.196						0.000	7.48 ppm	7.48	7.48	******	
TSXC08092022.001	JD48894-20CONF	8/9/2022 17:31	1	25.00 ul	1.0000	1.102	0.190						0.000	6.90 ppm	6.9	6.9	******	
TSXC08092022.001	JD48894-21CONF	8/9/2022 17:38	1	25.00 ul	1.0000	1.098	0.076						0.000	2.77 ppm	2.77	2.77	******	
TSXC08092022.001	JD48894-22CONF	8/9/2022 17:52	1	25.00 ul	1.0000	1.074	0.144						0.000	5.36 ppm	5.36	5.36	******	
TSXC08092022.001	JD48894-23CONF	8/9/2022 18:02	1	25.00 ul	1.0000	1.146	0.120						0.000	4.19 ppm	4.19	4.19	******	
TSXC08092022.001	JD48894-24CONF	8/9/2022 18:13	1	25.00 ul	1.0000	1.078	0.137						0.000	5.08 ppm	5.08	5.08	******	
TSXC08092022.001	CCV	8/9/2022 18:22	5	10.00 ul	1.0000		9.648						0.000	964.80 ppm	964.8			
TSXC08092022.001	CCV	8/10/2022 12:43	6	10.00 ul	1.0000		9.052						0.000	905.20 ppm	905.2			
TSXC08092022.001	JD49283-2	8/10/2022 12:57	1	25.00 ul	1.0000	0.982	0.202						0.000	8.23 ppm	8.23	8.23	******	
TSXC08092022.001	JD49283-3	8/10/2022 13:13	1	25.00 ul	1.0000	0.988	0.072						0.000	2.91 ppm	2.91	2.91	******	
TSXC08092022.001	JD49284-1	8/10/2022 13:29	1	25.00 ul	1.0000	0.992	0.138						0.000	5.56 ppm	5.56	5.56	******	
TSXC08092022.001	JD49284-2	8/10/2022 13:37	1	25.00 ul	1.0000	0.992	0.136						0.000	5.48 ppm	5.48	5.48	******	
TSXC08092022.001	JD49284-3	8/10/2022 13:45	1	25.00 ul	1.0000	0.974	0.094						0.000	3.86 ppm	3.86	3.86	******	
TSXC08092022.001	JD49284-4	8/10/2022 13:53	1	25.00 ul	1.0000	1.008	0.075						0.000	2.98 ppm	2.98	2.98	******	
TSXC08092022.001	JD49284-5	8/10/2022 14:00	1	25.00 ul	1.0000	1.022	0.076						0.000	2.97 ppm	2.97	2.97	******	
TSXC08092022.001	GP41687-MB1	8/10/2022 14:07	1	25.00 ul	1.0000	1	0.089						0.000	3.56 ppm	3.56	3.56	******	
TSXC08092022.001	CCV	8/10/2022 14:21	7	10.00 ul	1.0000		10.059						0.000	0.10 %	1000			
TSXC08092022.001	GP41687-B1	8/10/2022 14:38	1	25.00 ul	1.0000	1	5.350						0.000	214.00 ppm	214	214	******	
TSXC08092022.001	GP41687-S1	8/10/2022 14:49	1	25.00 ul	1.0000	1.024	5.273						0.000	205.98 ppm	205.98	205.98	******	
TSXC08092022.001	GP41687-MSD1	8/10/2022 15:26	1	25.00 ul	1.0000	1.024	5.054						0.000	197.42 ppm	197.42	197.42	******	
TSXC08092022.001	DA47786-1	8/10/2022 15:34	1	25.00 ul	1.0000	1.018	0.132						0.000	5.19 ppm	5.19	5.19	******	
TSXC08092022.001	JD49368-1	8/10/2022 15:44	1	25.00 ul	1.0000	1.08	1.221						0.000	45.22 ppm	45.22	45.22	******	
TSXC08092022.001	JD49405-1	8/10/2022 15:51	1	25.00 ul	1.0000	1.016	0.022						0.000	866.14 ppb	0.86614	0.86614	******	
TSXC08092022.001	JD49405-2	8/10/2022 15:58	1	25.00 ul	1.0000	0.996	0.069						0.000	2.77 ppm	2.77	2.77	******	
TSXC08092022.001	JD49405-3	8/10/2022 16:05	1	25.00 ul	1.0000	1.024	0.074						0.000	2.89 ppm	2.89	2.89	******	
TSXC08092022.001	CCV	8/10/2022 16:19	8	10.00 ul	1.0000		9.542						0.000	954.20 ppm	954.2			
TSXC08092022.001	DA47788-2	8/10/2022 16:27	1	25.00 ul	1.0000	1.024	0.166						0.000	6.48 ppm	6.48	6.48	******	
TSXC08092022.001	JD49400-1	8/10/2022 16:41	1	25.00 ul	1.0000	0.222	0.160						0.000	28.83 ppm	28.83	28.83	******	
TSXC08092022.001	JD49512-1	8/10/2022 16:48	1	25.00 ul	1.0000	1.082	0.083						0.000	3.07 ppm	3.07	3.07	******	
TSXC08092022.001	JD49622-2	8/10/2022 16:59	1	25.00 ul	1.0000	1.03	0.101						0.000	3.92 ppm	3.92	3.92	******	
TSXC08092022.001	JD49622-3	8/10/2022 17:07	1	25.00 ul	1.0000	0.966	0.070						0.000	2.90 ppm	2.9	2.9	******	

TSXC08092022.001 JD49478-1	8/10/2022 17:24	1	25.00 ul	1.0000	1.022	0.085	0.000	3.33 ppm	3.33	3.33	******
TSXC08092022.001 JD49478-2	8/10/2022 17:50	1	25.00 ul	1.0000	1	0.377	0.000	15.08 ppm	15.08	15.08	******
TSXC08092022.001 JD49712-1	8/10/2022 18:14	1	25.00 ul	1.0000	1.006	0.420	0.000	16.70 ppm	16.7	16.7	******
TSXC08092022.001 CCV	8/10/2022 18:25	9	10.00 ul	1.0000		9.001	0.000	900.10 ppm	900.1	952.7778	37.00

08/10/2022 15:19

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Diagnostics Report - Cell Check

Cell Check All Data

Standard Sample :

Repeats	Mass(ug)	Concentration	Standard Volume	Counts(ug)
1	5.000	1000.00 mg/l	5.0 ul	5.380
1	20.000	1000.00 mg/l	20.0 ul	21.667

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Sample Report

Comment

System Parameter

Data ID		:	TSXC08092022.001	
Mode		:	TSX-Cl	
Accessory		:	ABC	
Balance		:	(NO USED)	
Heater	Set T1	:	800	°C
	Set T2	:	900	°C
Gas Flow	Ar/O_2	:	203	ml/min
	O_2	:	143	ml/min

Titration Parameter

End Point	:	306.01	mV
Gain-1	:	0.76	
Titration-F	:	100	%
Sens	:	1.0	mV
Blank	:	0.000	µg
Ar Time	:		
O_2 Time	:		
Delay Time	:		
W-Time	:	0	sec
W-V	:	0	mV
E1-Time	:	300	sec
E2-Time	:	999	sec

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SGS

TOTAL ORGANIC HALIDES EXTRACTION LOG

Test: Total Organic Halides | Product: TOX | Analyst:

Method: SW846 9023 | Units: mg/kg | Date:7/28/22

TOX | GP Batch ID:GP41484

Balance# 43 | OIL /SOIL

Bottle #	Sample ID	% Sol	Initial Mass (g)	Final Volume	Comments
	GP41484-B1		5	5.0ml	
	GP41484-S1		5	5.0ml	1.0ML OF 1000PPM TRICHLOROBENZENE
	GP41484-MB1		5.42	5.0ml	1.0ML OF 1000PPM TRICHLOROBENZENE
	GP41484-MSD1		5.51	5.0ml	1.0ML OF 1000PPM TRICHLOROBENZENE
	JD48894-13 QC		5.39	5.0ml	
	JD48894-14		5.48	5.0ml	
	JD48894-15		5.15	5.0ml	
	JD48894-16		5.33	5.0ml	
	JD48894-17		5.63	5.0ml	
	JD48894-18		5.13	5.0ml	
	JD48894-19		5.24	5.0ml	
	JD48894-20		5.51	5.0ml	
	JD48894-21		5.49	5.0ml	
	JD48894-22		5.37	5.0ml	
	JD48894-23		5.73	5.0ml	
	JD48894-24		5.39	5.0ml	
	JD49283-2		4.91	5.0ml	
	JD49283-3		4.94	5.0ml	
	JD49284-1		4.95	5.0ml	
	JD49284-2		4.96	5.0ml	
	JD49284-3		4.87	5.0ml	
	JD49284-4		5.04	5.0ml	
	JD49284-5		5.11	5.0ml	
				5.0ml	
				5.0ml	

F/N GN152-01
Rev. Date: 8/9/2022

SGS

GN32189

TOTAL ORGANIC HALIDES EXTRACTION LOG

Test: Total Organic Halides **Product: TOX** **Analyst:**

Method: SW846 9023 **Units: mg/kg** **Date:**

GP Batch ID:

Balance# **SOIL / OIL / LIQ**

Bottle #	Sample ID	% Sol	Initial Mass (g)	Final Volume	Comments
	GP41687-MB1		5.00	5.0ml	
	GP41687-B1		5.00	5.0ml	1mL 1000 ppm Trichlorobenzene BSP Spike
	GP41687-S1		5.12	5.0ml	1mL 1000 ppm Trichlorobenzene BSP Spike
	GP41687-MSD1		5.12	5.0ml	1mL 1000 ppm Trichlorobenzene BSP Spike
	DA47788-1		5.09	5.0ml	
	JD49368-1 •		5.40	5.0ml	
	JD49405-1 •		5.08	5.0ml	
	JD49405-2 •		4.98	5.0ml	
	JD49405-3 •		5.12	5.0ml	
	DA47788-2		5.12	5.0ml	
	JD49400-1		1.11	5.0ml	OIL
	JD49512-1		5.41	5.0ml	
	JD49622-2 •		5.18	5.0ml	
	JD49622-3 •		4.83	5.0ml	
	JD49628-1		5.19	5.0ml	
	JD49628-2		4.90	5.0ml	
	JD49628-3 ON HOLD		4.90	5.0ml	
	JD49628-4		5.12	5.0ml	
	JD49628-5		4.97	5.0ml	
	JD49478-1		5.11	5.0ml	
	JD49478-2		5.00	5.0ml	
	JD49712-1		5.03	5.0ml	
	JD49715-1		4.96	5.0ml	
	JD49715-2		5.22	5.0ml	
	JD49622-1		5.12		

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SGS

Reagent Information Log - TOX (Solid & Oil)

Reagent	Exp. Date	Reagent # or Manufacturer/Lot
Acetic Acid Electrolyte Solution	9/11/2022	GNE3-69277-TOX
Cell Check Solution (1000 ug/L NaCl)	8/11/2022	GNE2-68922-TOX
Ethyl Acetate, Reagent Grade	6/22/2026	Fisher Lot 200213
1,2,4-Trichlorobenzene (FOR BSP)	5/23/2023	ALDRICH MKBX3037V
1,2,4-Trichlorobenzene (FOR CCV)	5/18/2023	Lot 10199574 Alfa Aesar
Electrode Solutions for TOX-100		
Reference Electrode Outer Solution (IM KN03)	2/3/2023	GNE8-71060-TOX
Reference Electrode Inner Solution (IM KCL)	2/3/2023	GNE8-71061-TOX
Counter Electrode Chamber Solution (10% KN03)	2/3/2023	GNE8-71062-TOX
Trichlorobenze Soil Cal. Check Solution(1000ug/mi)(BSF	12/21/2022	GNE6-70523-TOX
1000ug/ml soil CCV	12/21/2022	GNE6-70524-TOX

All standards and stocks were made as described in the SOP for this method (circle one) Y or N
If no (N), see attached page for standards prep.

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