Analytical Resources, LLC
Analytical Chemists and Consultants

13 January 2023

Ali Judkins
Anchor QEA, LLC
1201 3rd Ave, Suite 2600
Seattle, WA 98101

RE: AOC4 UR Phase 3

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

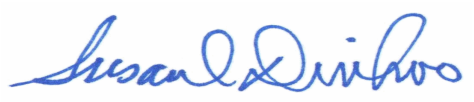
Associated Work Order(s)	Associated SDG ID(s)
22L0199	N/A

Susan Dunnihoo
Digitally signed by Susan Dunnihoo
Date: 2023.01.25 16:52:16 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC



Susan Dunnihoo, Director, Client Services

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-012

1 of 2 | 22L0199

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3261

Project/Client Name: AOC4 UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARI
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/8/2022
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCB	PAH BBP	mercury	Arsenic	D/F	TOC/TOM/Solids	Archive	Comments / Instructions [Jar tag number(s)]
12/7/2022	1414	LDW22-SC762A	3	Sediment	X	—	—	—	—	X	X	
		LDW22-SC762B	3		X	—	—	—	—	X	X	
		LDW22-SC762C	3		X	—	—	—	—	X	X	
		LDW22-SC762D	3		X	—	—	—	—	X	X	
		LDW22-SC762E	3		X	—	—	—	—	X	X	
		LDW22-SC762F	3		X	—	—	—	—	X	X	
		LDW22-SC762G	3		X	—	—	—	—	X	X	
		LDW22-SC762H	3		X	—	—	—	—	X	X	
		LDW22-SC762I	3		X	—	—	—	—	X	X	
12/7/2022	1414	LDW22-SC762J	3		X	—	—	—	—	X	X	
12/8/2022	0817	LDW22-IT789F	3		X	—	—	X	—	X	X	
12/8/2022	0817	LDW22-IT789G	3	Sediment	X	—	—	X	—	X	X	
		Total Number of Containers	36	Purchase Order / Statement of Work # APJ-110222-AOC4-ARI								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort	YARED	YARED	
Signature:			
Company: Windward	YA YA SAFETY	YA YA SAFETY	ARI
Date/Time: 12/8/2022 1635	12/8/22 4:35	12/8/22 5:18 PM	12/8/22 1718

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3262

Project/Client Name: ARC4 UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARI
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/8/2022
Airbill Number:
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	PAH	BBP	Mercury	Arsenic	DIF	TOC/TOTAL Solids	Archive	Comments / Instructions [Jar tag number(s)]
12/8/22	0817	LDW22-IT789H	3	Sediment	X	—	—	—	X	—	X	X	
		LDW22-IT789I	3		X	—	—	—	X	—	X	X	
		LDW22-IT789I-FD	3		X	—	—	—	X	—	X	X	
		LDW22-IT789J	3		X	—	—	—	X	—	X	X	
		LDW22-IT789K	3		X	—	—	—	X	—	X	X	
	0817	LDW22-IT789L	3		X	—	—	—	X	—	X	X	
	0920	LDW22-IT790I	3		X	—	—	—	X	—	X	X	
		LDW22-IT790J	3		X	—	—	—	X	—	X	X	
		LDW22-IT790K	3		X	—	—	—	X	—	X	X	
		LDW22-IT790L	3		X	—	—	—	X	—	X	X	
	0920	LDW22-IT790M	3		X	—	—	—	X	—	X	X	
12/8/22	1039	LDW22-SC602A	3	Sediment	X	—	—	—	—	—	X	X	
		Total Number of Containers	36	Purchase Order / Statement of Work # APT-110222-ARC4-ARI									

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort	YARED	YARED	
Signature:		YA YA SAFETY	
Company: Windward	YA YA SAFETY		ARI
Date/Time: 12/8/2022 1638	12/8/22 4:38	12/8/22 5:18 PM	12/8/22 1718

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward environmental LLC

200 1st Ave W, Suite 500
Seattle, WA 98119

206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3255

Project/Client Name: AOC4 UR Phase 3
Project Number: 180067 - 02.04
Contact Name: Amara Vandenort
Sampled By: Windward

Ship to: ARL
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/8/2022
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCB	PAH BBP	Mercury	Arsenic	D/F	TOC/Grind Solids	Archive (35)	Comments / Instructions [Jar tag number(s)]
12/8/22	1039	LDW22-SC802B	3	Sediment	X	—	—	—	—	X	X	
		LDW22-SC802C	3		X	—	—	—	—	X	X	
		LDW22-SC802D	3		X	—	—	—	—	X	X	
		LDW22-SC802E	3		X	—	—	—	—	X	X	
		LDW22-SC802F	3		X	—	—	—	—	X	X	
		LDW22-SC802G	3		X	—	—	—	—	X	X	
		LDW22-SC802H	3		X	—	—	—	—	X	X	
		LDW22-SC802I	3		X	—	—	—	—	X	X	
		LDW22-SC802J	3		X	—	—	—	—	X	X	
	1039	LDW22-SC802K	3		X	—	—	—	—	X	X	
	1039	LDW22-SC802C-FD	3		X	—	—	—	—	X	X	
12/8/22	1127	LDW22-SC787A	3	Sediment	X	—	—	X	—	X	X	
		Total Number of Containers	36	Purchase Order / Statement of Work # APT-110222-AOC4-ARL								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandenort	YARED	YARED	
Signature: AVandenort			
Company: Windward	Company: YA YA SAFETY	Company: YA YA SAFETY	Company: ARI
Date/Time: 12/8/2022 1638	Date/Time: 12/8/22 4:38	Date/Time: 12/8/22 5:18 PM	Date/Time: 12/8/22 1718

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3258

Project/Client Name: AOC4 UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARL
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/8/2022
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCB	PAH/BBP	Mercury	Arsenic	D/F	TOC/Total solids	Archive	Comments / Instructions [Jar tag number(s)]
12/8/22	1127	LOW22-SC787B	3	Sediment	X	—	—	X	—	X	X	
		LOW22-SC787C	3		X	—	—	X	—	X	X	
		LOW22-SC787D	3		X	—	—	X	—	X	X	
		LOW22-SC787E	3		X	—	—	X	—	X	X	
		LOW22-SC787F	3		X	—	—	X	—	X	X	
		LOW22-SC787G	3		X	—	—	X	—	X	X	
		LOW22-SC787H	3		X	—	—	X	—	X	X	
		LOW22-SC787I	3		X	—	—	X	—	X	X	
		LOW22-SC787J	3		X	—	—	X	—	X	X	
		LOW22-SC787K	3		X	—	—	X	—	X	X	
	1127	LOW22-SC787L	3		X	—	—	X	—	X	X	
12/8/22	1347	LOW22-SC761A	3	Sediment	X	—	—	—	—	X	X	
		Total Number of Containers	36		Purchase Order / Statement of Work # APJ-110222-AOC4-ARL							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort	YARED	YARED	
Signature:			
Company: Windward	YA YA SAFETY	YA YA SAFETY	ARI
Date/Time: 12/8/2022 1638	12/8/22 4:38	12/8/22 5:48 PM	12/8/22 1718

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2210199

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3257

Project/Client Name: AOC 4 LR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARL
Attn: Sue Drummond
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/8/2022
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCB	PAH BBP	Mercury	Arsenic	D/F	TOC/Total Solids	Archive	Comments / Instructions [Jar tag number(s)]
12/8/22	1347	LDW22-SC761B	3	Sediment	X	—	—	—	—	X	X	
		LDW22-SC761C	3		X	—	—	—	—	X	X	
		LDW22-SC761D	3		X	—	—	—	—	X	X	
		LDW22-SC761D-FD	3		X	—	—	—	—	X	X	
		LDW22-SC761E	3		X	—	—	—	—	X	X	
		LDW22-SC761F	3		X	—	—	—	—	X	X	
		LDW22-SC761G	3		X	—	—	—	—	X	X	
		LDW22-SC761H	3		X	—	—	—	—	X	X	
		LDW22-SC761I	3		X	—	—	—	—	X	X	
		LDW22-SC761J	3		X	—	—	—	—	X	X	
		LDW22-SC761K	3		X	—	—	—	—	X	X	
12/8/22	1347	LDW22-SC761L	3	Sediment	X	—	—	—	—	X	X	
		Total Number of Containers	36	Purchase Order / Statement of Work # APJ-110222-AOC4-ARL								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort	YARED	YARED	
Signature:			
Company: Windward	YA YA SAFETY	YA YA SAFETY	ARI
Date/Time: 12/8/2022 1638	12/8/22 4:38	12/8/22 5:38 BM	12/8/22 1718

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3260

Project/Client Name: AOC4 UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara VanderVoA
Sampled By: Windward

Ship to: ARL
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: —
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCB	PAH / BBP	Mercury	Arsenic	DF	TC/Total Solids	Archive	Comments / Instructions [Jar tag number(s)]
12/8/22	1429	LDW22-SC75B3	3	Sediment	X					X	X	
		LDW22-SC75BC	3		X					X	X	
		LDW22-SC75BD	3		X					X	X	
		LDW22-SC75BE	3		X					X	X	
		LDW22-SC75BF	3		X					X	X	
		LDW22-SC75BG	3		X					X	X	
		LDW22-SC75BH	3		X					X	X	
		LDW22-SC75BI	3		X					X	X	
		LDW22-SC75BJ	3		X					X	X	
12/8/22	1429	LDW22-SC75BK	3		X					X	X	
		Total Number of Containers			Purchase Order / Statement of Work # APJ-10222-AOC4-ARL							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara VanderVoA	YARED	YARED	
Signature:			
Company: Windward	YA YA SAFETY	YA YA SAFETY	ARI
Date/Time: 12/8/22 1638	12/8/22 4:38	12/8/22 @ 5:18 PM	12/8/22 1718

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward

Project Name: AOC NBR Phase 3

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22L0199

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? ..... YES NO

Were custody papers properly filled out (ink, signed, etc.) ..... YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1718 2.1 3.0 1.8 4.9 4.8 5.1 2.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9208

Cooler Accepted by: JM Date: 12/08/22 Time: 1718

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? ..... YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? ..... NA YES NO

How were bottles sealed in plastic bags? ..... Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? ..... YES NO

Were all bottle labels complete and legible? ..... YES NO

Did the number of containers listed on COC match with the number of containers received? ..... YES NO

Did all bottle labels and tags agree with custody papers? ..... YES NO

Were all bottles used correct for the requested analyses? ..... YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? ..... NA YES NO

Was sufficient amount of sample sent in each bottle? ..... YES NO

Date VOC Trip Blank was made at ARI..... NA _____

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [signature] Date: 12/09/22 Time: 9:57 Labels checked by: JBW

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	01/13/2023 17:42

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0199-01	LDW22-SC762A	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-02	LDW22-SC762B	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-03	LDW22-SC762C	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-04	LDW22-SC762D	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-05	LDW22-SC762E	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-06	LDW22-SC762F	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-07	LDW22-SC762G	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-08	LDW22-SC762H	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-09	LDW22-SC762I	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-10	LDW22-SC762J	Solid	12/07/22 14:14	12/08/22 17:18
22L0199-11	LDW22-IT789F	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-12	LDW22-IT789G	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-13	LDW22-IT789H	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-14	LDW22-IT789I	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-15	LDW22-IT789I-FD	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-16	LDW22-IT789J	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-17	LDW22-IT789K	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-18	LDW22-IT789L	Solid	12/08/22 08:17	12/08/22 17:18
22L0199-19	LDW22-IT790I	Solid	12/08/22 09:20	12/08/22 17:18
22L0199-20	LDW22-IT790J	Solid	12/08/22 09:20	12/08/22 17:18
22L0199-21	LDW22-IT790K	Solid	12/08/22 09:20	12/08/22 17:18
22L0199-22	LDW22-IT790L	Solid	12/08/22 09:20	12/08/22 17:18
22L0199-23	LDW22-IT790M	Solid	12/08/22 09:20	12/08/22 17:18
22L0199-24	LDW22-SC802A	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-25	LDW22-SC802B	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-26	LDW22-SC802C	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-27	LDW22-SC802D	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-28	LDW22-SC802E	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-29	LDW22-SC802F	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-30	LDW22-SC802G	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-31	LDW22-SC802H	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-32	LDW22-SC802I	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-33	LDW22-SC802J	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-34	LDW22-SC802K	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-35	LDW22-SC802C-FD	Solid	12/08/22 10:39	12/08/22 17:18
22L0199-36	LDW22-SC787A	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-37	LDW22-SC787B	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-38	LDW22-SC787C	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-39	LDW22-SC787D	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-40	LDW22-SC787E	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-41	LDW22-SC787F	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-42	LDW22-SC787G	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-43	LDW22-SC787H	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-44	LDW22-SC787I	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-45	LDW22-SC787J	Solid	12/08/22 11:27	12/08/22 17:18

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	01/13/2023 17:42

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0199-46	LDW22-SC787K	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-47	LDW22-SC787L	Solid	12/08/22 11:27	12/08/22 17:18
22L0199-48	LDW22-SC761A	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-49	LDW22-SC761B	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-50	LDW22-SC761C	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-51	LDW22-SC761D	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-52	LDW22-SC761D-FD	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-53	LDW22-SC761E	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-54	LDW22-SC761F	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-55	LDW22-SC761G	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-56	LDW22-SC761H	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-57	LDW22-SC761I	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-58	LDW22-SC761J	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-59	LDW22-SC761K	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-60	LDW22-SC761L	Solid	12/08/22 13:47	12/08/22 17:18
22L0199-61	LDW22-SC758B	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-62	LDW22-SC758C	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-63	LDW22-SC758D	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-64	LDW22-SC758E	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-65	LDW22-SC758F	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-66	LDW22-SC758G	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-67	LDW22-SC758H	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-68	LDW22-SC758I	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-69	LDW22-SC758J	Solid	12/08/22 14:29	12/08/22 17:18
22L0199-70	LDW22-SC758K	Solid	12/08/22 14:29	12/08/22 17:18

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	13-Jan-2023 17:42

Case Narrative

Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Work Order: 22L0199

Sample receipt

Samples as listed on the preceding page were received 08-Dec-2022 17:18 under ARI work order 22L0199. For details regarding sample receipt, please refer to the Cooler Receipt Form.

PCB Aroclors - EPA Method SW8082A

The sample(s) were extracted and analyzed within the recommended holding times. Several extracts were initially run at dilution due to the color and characteristics of the extract.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were high of control limits for several samples due to interference from the matrix, and flagged on the summary sheet.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

The reference material (SRM) percent recoveries were within control limits.

Several results were "P1" flagged, indicating a greater than 40% difference between the response on the two analytical columns.

Total Metals - EPA Method 6020B (Arsenic)

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

The batch BKL0608 matrix QC is reported under work order 22L0329.

The reference material (SRM) percent recoveries were within control limits.

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	13-Jan-2023 17:42

Case Narrative

Wet Chemistry (Total Organic Carbon)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits. Batch BKL0463 matrix QC is reported under work order 22L0156.

QUALIFIERS AND NOTES

Qualifier	Definition
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
J	Estimated concentration value detected below the reporting limit.
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
H	Hold time violation - Hold time was exceeded.
D	The reported value is from a dilution
B	This analyte was detected in the method blank.
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-01 B	File ID:	12292241ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/29/22 22:58
% Solids:	54.93	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.8 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0370	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	148	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	155	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	123	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9846*	*9.18*	*115*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9846*	*5.70*	*71.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9846*	*8.40*	*105*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9846*	*6.38*	*79.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292241ECD7.D
Data file 2: /221229.b/221229.b/12292241ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-01
Client ID:
Injection Date: 29-DEC-2022 22:58
Report Date: 01/03/2023 11:18
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	178898	5.702	-0.006	123370	28.6	32.0	11.2	Tetrachloro-m-xylene
13.896	-0.007	176913	14.123	-0.007	180536	46.0	42.1	8.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	441776	-1.3
Hexabromobiphenyl	798898	419742	-47.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	281432	13.0
Hexabromobiphenyl	362541	302275	-16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.410	-0.012	112684	593.2	1	8.312	-0.009	90014	782.9
Aroclor-1248	2	8.578	-0.020	111652	460.4	2	8.717	-0.010	80797	668.2
Aroclor-1248	3	8.994	-0.024	279215	640.0	3	9.149	-0.023	114176	776.2
Aroclor-1248	4	9.298	-0.012	259414	1213.7	4	9.544	-0.050	88182	510.7
		Total Col1Ave (4 peaks):			726.8		Total Col2Ave (4 peaks):			684.5 RPD = 6
		Corrected Ave (3 peaks):			564.5		Corrected Ave (3 peaks):			651.7 RPD = 14
										742.43
Aroclor-1254	1	9.298	-0.015	259414	666.9	1	9.448	-0.012	150273	828.2
Aroclor-1254	2	9.373	-0.021	120618	797.4	2	9.966	-0.012	73646	504.8
Aroclor-1254	3	9.665	-0.021	141666	576.6	3	10.114	-0.015	269727	860.2
Aroclor-1254	4	9.797	-0.023	342220	714.6	4	10.355	-0.023	156991	483.4
Aroclor-1254	5	10.125	-0.050	141631	431.5	5	10.564	-0.012	190658	1217.3
		Total Col1Ave (5 peaks):			637.4		Total Col2Ave (5 peaks):			778.8 RPD = 20
		Corrected Ave (4 peaks):			597.4		Corrected Ave (4 peaks):			669.1 RPD = 11
					688.875					
Aroclor-1260	1	11.044	-0.012	99535	651.5	1	11.653	-0.009	108314	678.8
Aroclor-1260	2	11.360	-0.012	81061	513.0	2	11.913	-0.012	198464	495.7
Aroclor-1260	3	11.729	-0.017	252122	607.2	3	12.431	-0.013	82582	774.6
Aroclor-1260	4	12.129	-0.023	126913	600.2	4	12.497	-0.012	138399	518.5
Aroclor-1260	5	12.244	-0.012	52947	611.7	NS	---			----
		Total Col1Ave (5 peaks):			596.7		Total Col2Ave (4 peaks):			616.9 RPD = 3
		Corrected Ave (4 peaks):			583.0		Corrected Ave (3 peaks):			564.4 RPD = 3
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.803) = 5892868 Col1 Total PCB = 1.4 ppm*

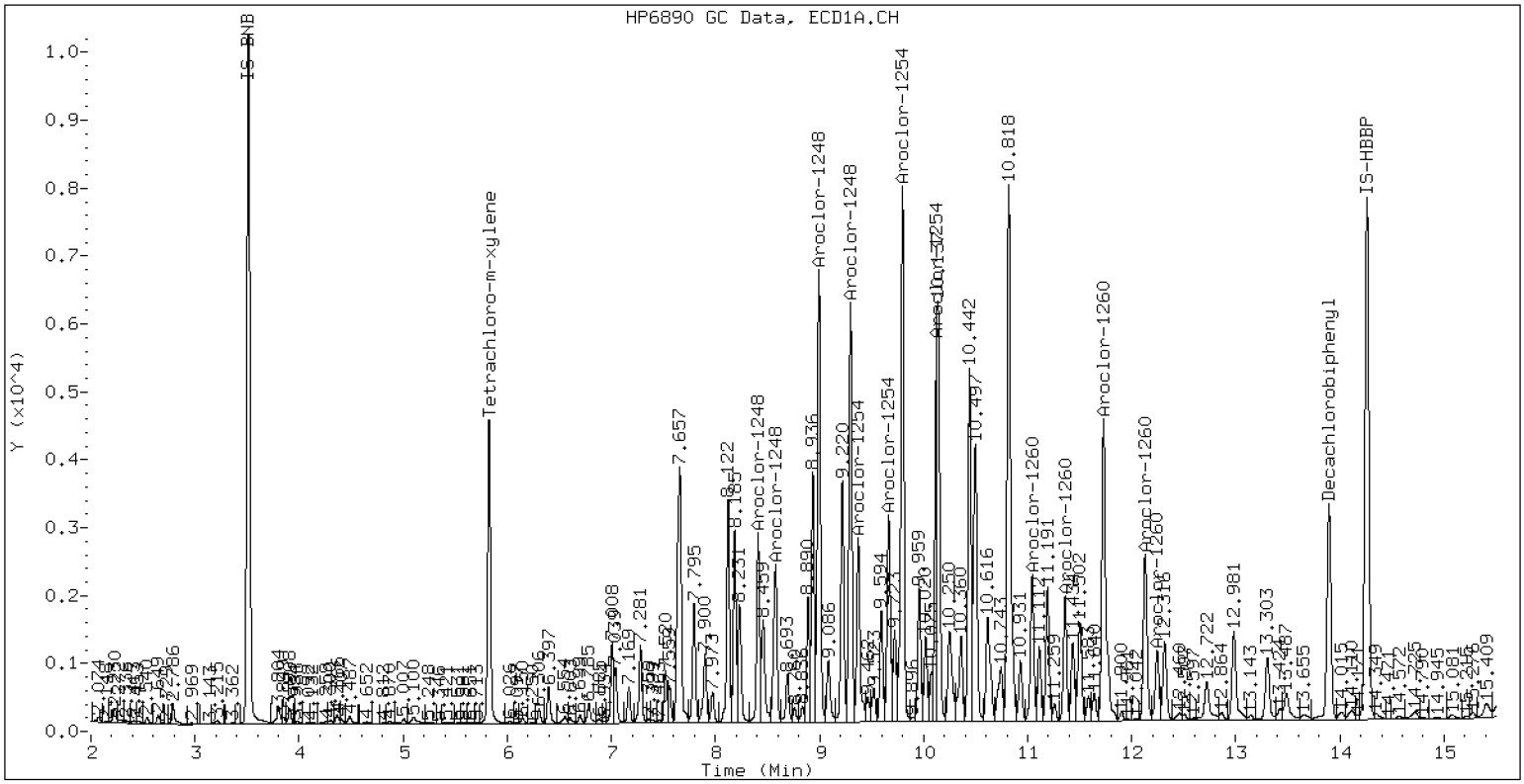
Total PCB Area Col2 (5.808 - 14.029) = 4321120 Col2 Total PCB = 1.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

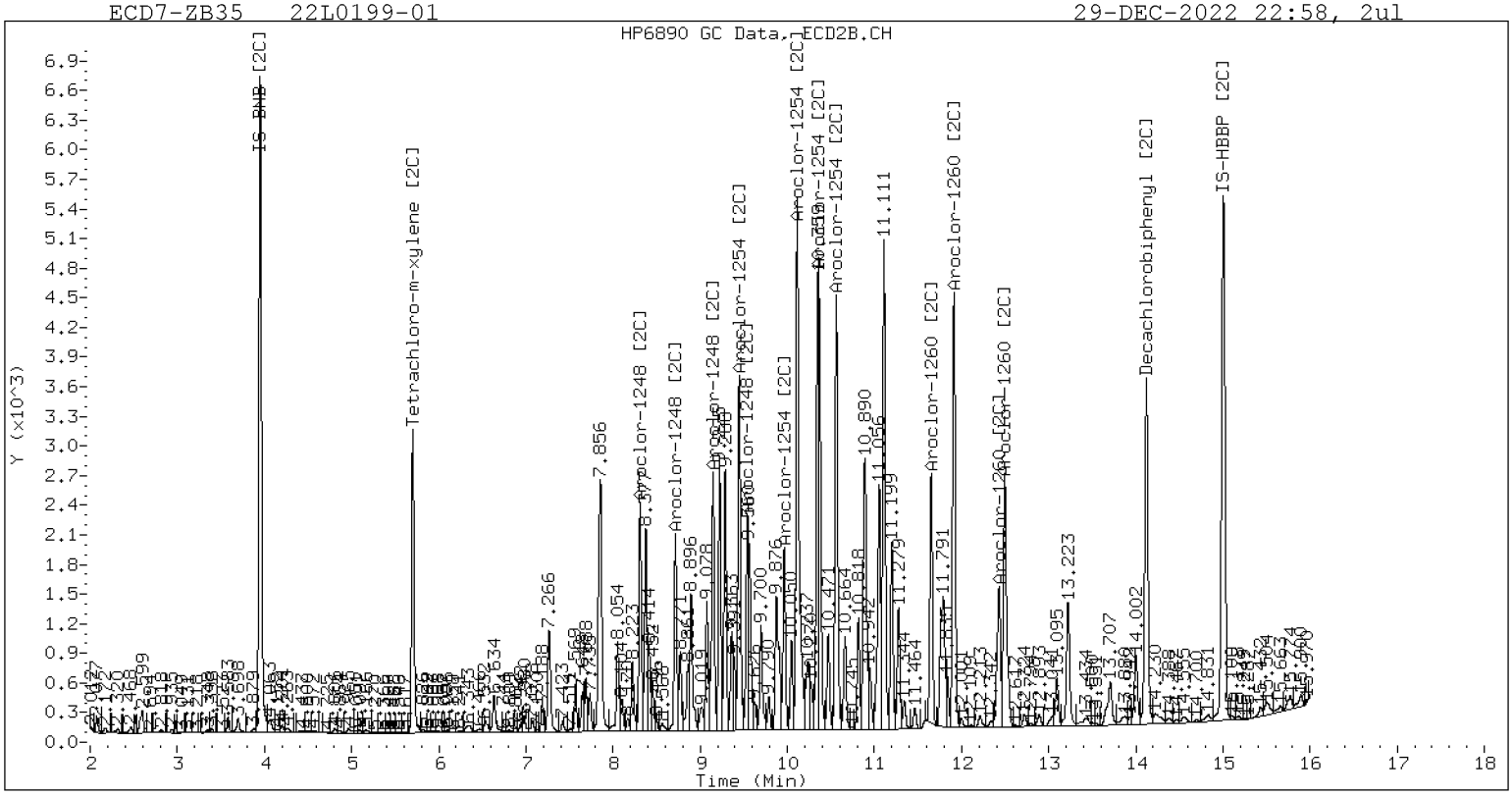
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-01 29-DEC-2022 22:58, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-01 29-DEC-2022 22:58, 2ul

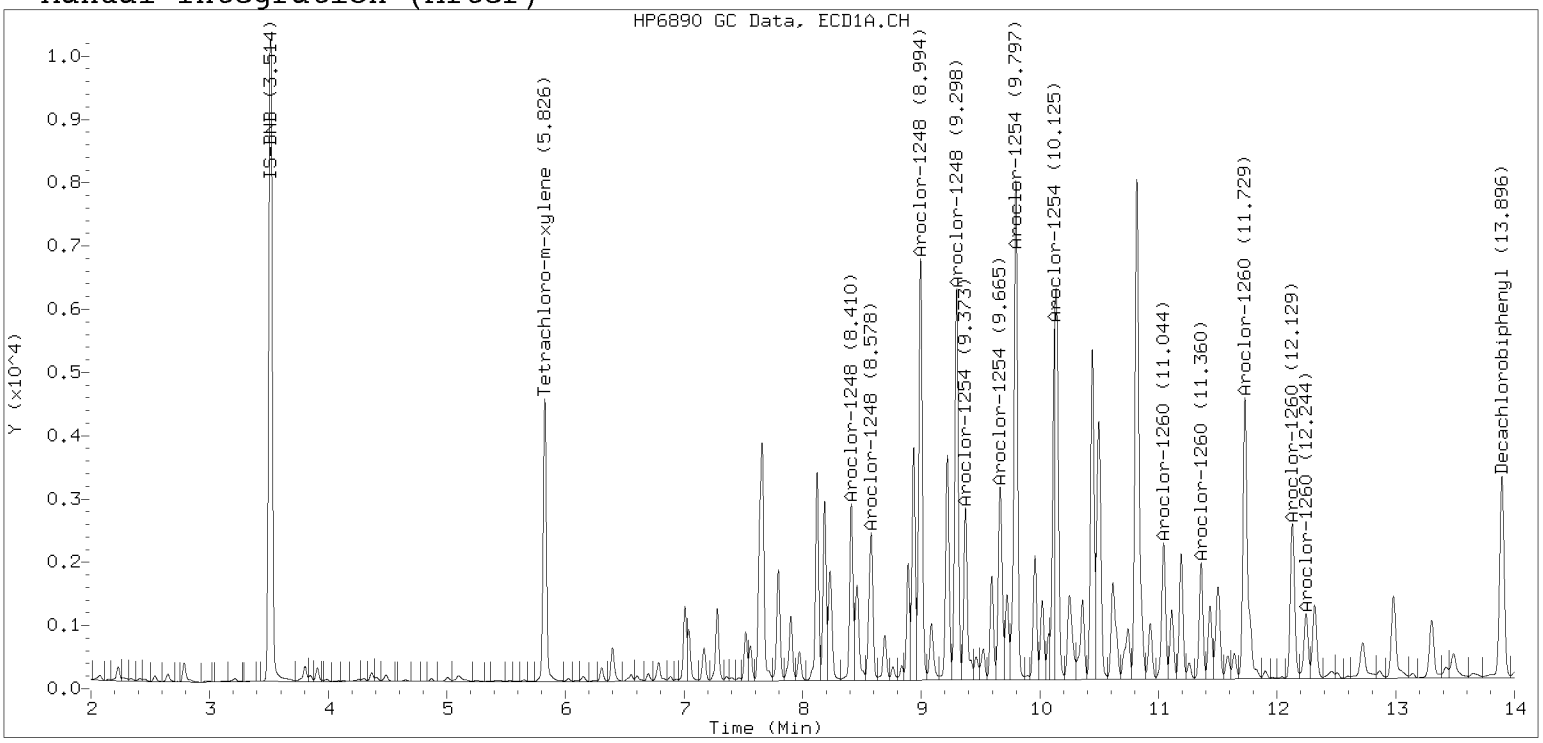


ZB-35 Manual Integration: YES

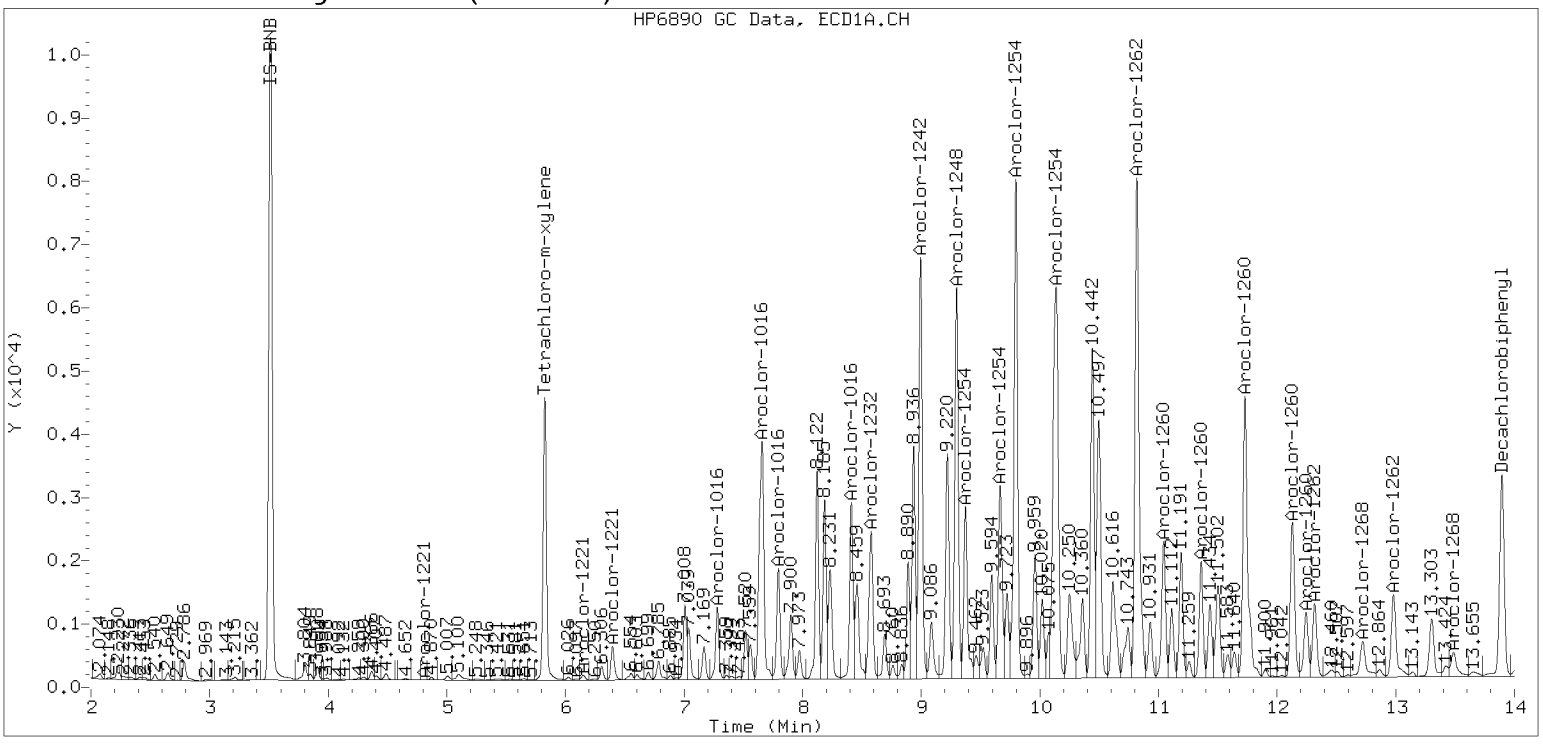
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221229.b/12292241ECD7.D Injection Date: 29-DEC-2022 22:58

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-02 B	File ID:	12292242ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/29/22 23:20
% Solids:	56.77	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.05 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0370	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	521	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	486	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	226	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9886*	*10.5*	*131*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9886*	*7.65*	*95.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9886*	*9.75*	*122*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9886*	*7.79*	*97.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292242ECD7.D
Data file 2: /221229.b/221229.b/12292242ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-02RE1
Client ID:
Injection Date: 29-DEC-2022 23:20
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.004	49833	5.704	-0.004	32499	7.7	7.8	1.9	Tetrachloro-m-xylene
13.897	-0.006	55713	14.123	-0.006	53019	10.5	9.8	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	459137	2.6
Hexabromobiphenyl	798898	578614	-27.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	303731	21.9
Hexabromobiphenyl	362541	382471	5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.412	-0.010	79757	404.0	1	8.314	-0.007	60619	488.5
Aroclor-1248	2	8.581	-0.017	92772	368.1	2	8.719	-0.008	57177	438.1
Aroclor-1248	3	8.998	-0.020	199199	439.3	3	9.153	-0.020	87225	549.5
Aroclor-1248	4	9.300	-0.010	166966	751.6	4	9.570	-0.023	113546	609.3
	Total Col1Ave (4 peaks):				490.8	Total Col2Ave (4 peaks):				521.4 RPD = 6
	Corrected Ave (3 peaks):				403.8	Corrected Ave (3 peaks):				492.0 RPD = 20
Aroclor-1254	1	9.300	-0.013	166966	413.0	1	9.451	-0.009	91667	468.1
Aroclor-1254	2	9.376	-0.017	74364	473.0	2	9.968	-0.010	53921	342.5
Aroclor-1254	3	9.667	-0.019	95127	372.6	3	10.117	-0.012	161283	476.6
Aroclor-1254	4	9.801	-0.019	212198	426.4	4	10.358	-0.020	187555	535.1
Aroclor-1254	5	10.132	-0.044	104095	305.1	5	10.566	-0.010	102937	609.0
	Total Col1Ave (5 peaks):				398.0	Total Col2Ave (5 peaks):				486.2 RPD = 20
	Corrected Ave (4 peaks):				379.3	Corrected Ave (4 peaks):				455.6 RPD = 18
Aroclor-1260	1	11.046	-0.010	47104	223.6	1	11.655	-0.007	60720	300.8
Aroclor-1260	2	11.362	-0.011	42737	196.2	2	11.915	-0.010	97646	192.7
Aroclor-1260	3	11.731	-0.014	114674	200.4	3	12.435	-0.009	28538	211.5
Aroclor-1260	4	12.132	-0.020	71046	243.7	4	12.498	-0.011	67576	200.1
Aroclor-1260	5	12.246	-0.010	25721	215.6	NS	---			----
	Total Col1Ave (5 peaks):				215.9	Total Col2Ave (4 peaks):				226.3 RPD = 5
	Corrected Ave (4 peaks):				208.9	Corrected Ave (3 peaks):				201.5 RPD = 4
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 3710811 Col1 Total PCB = 0.8 ppm*

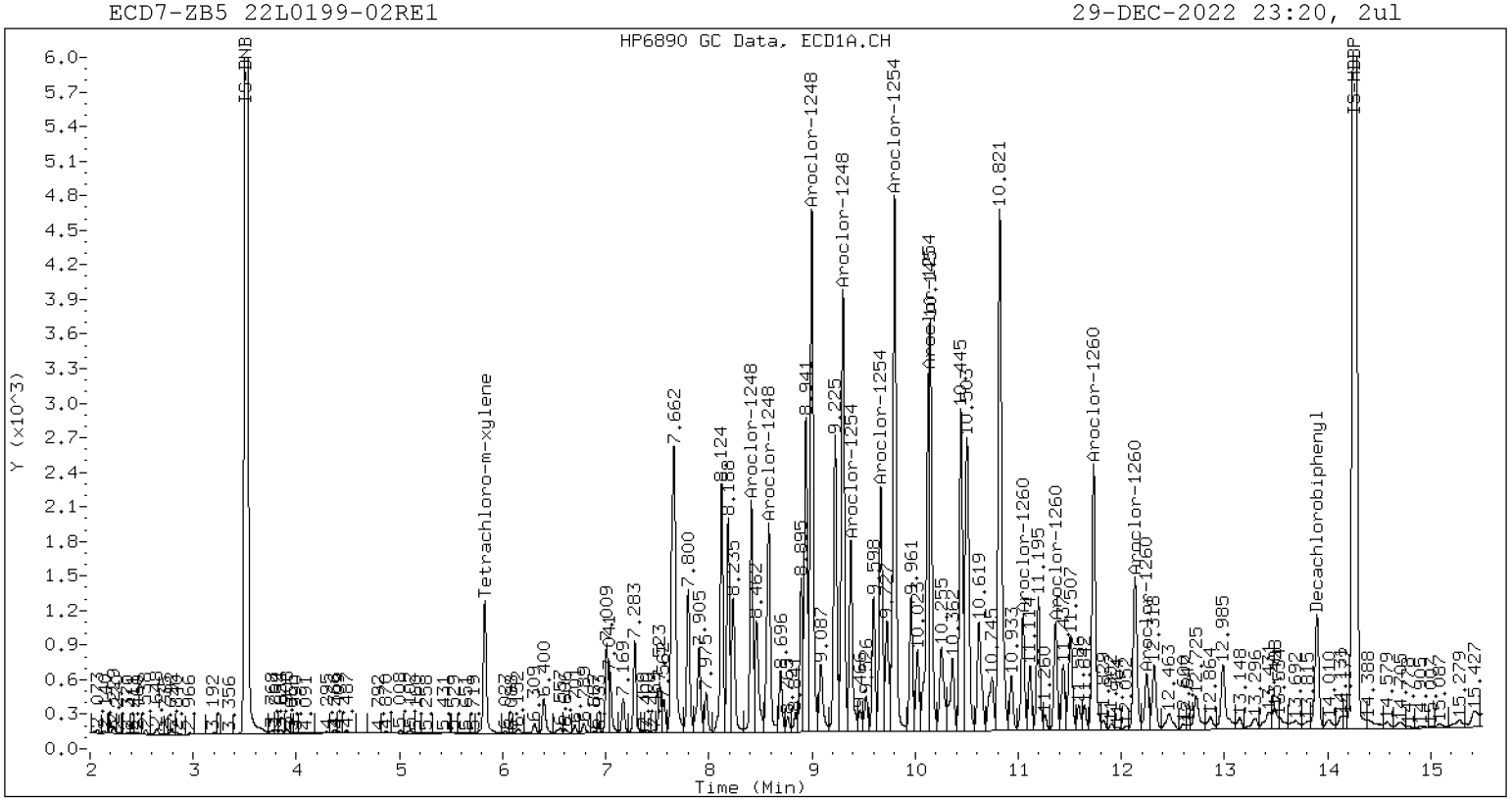
Total PCB Area Col2 (5.808 - 14.029) = 2615260 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

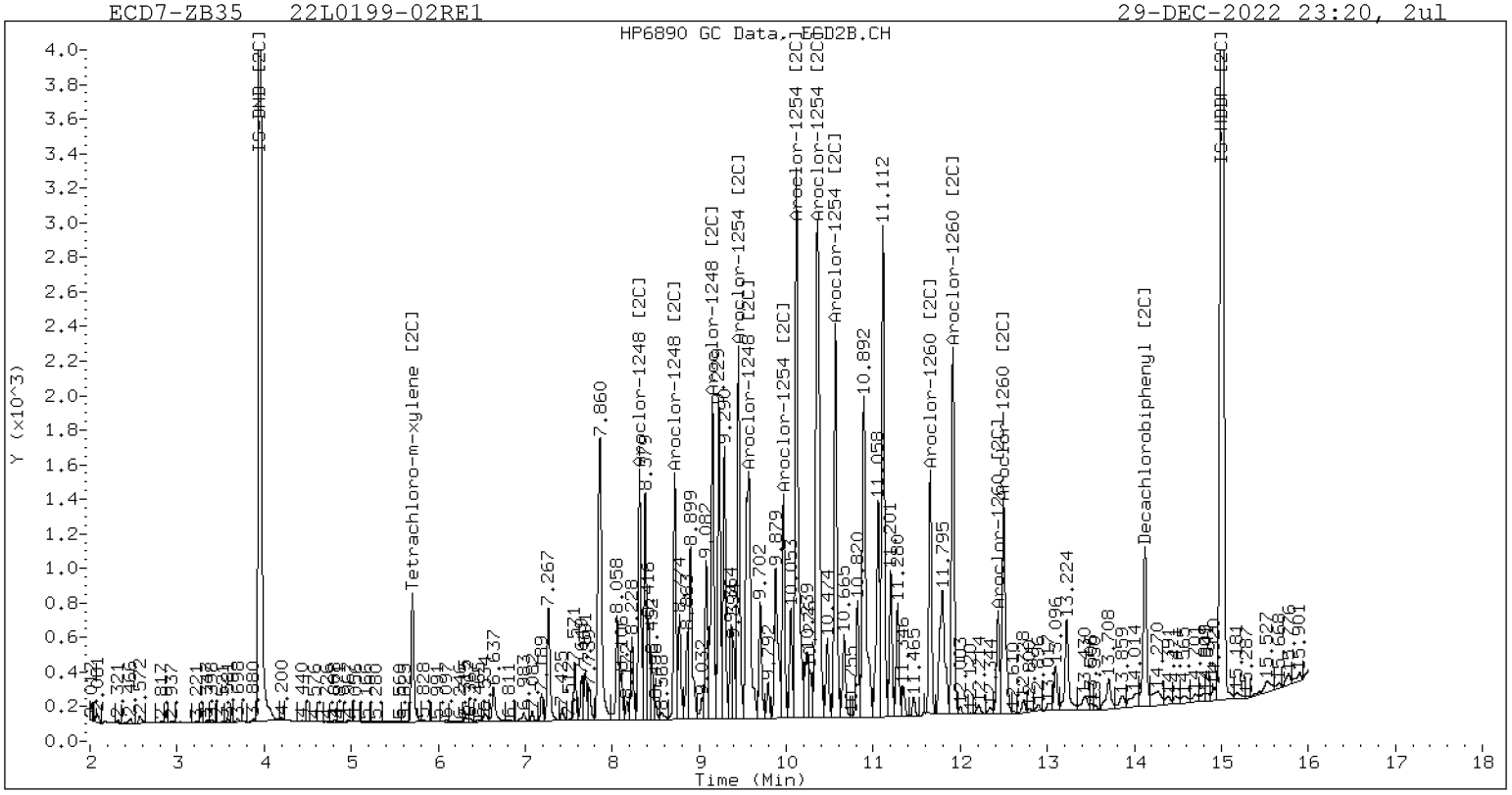
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-02RE1 29-DEC-2022 23:20, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-02RE1 29-DEC-2022 23:20, 2ul

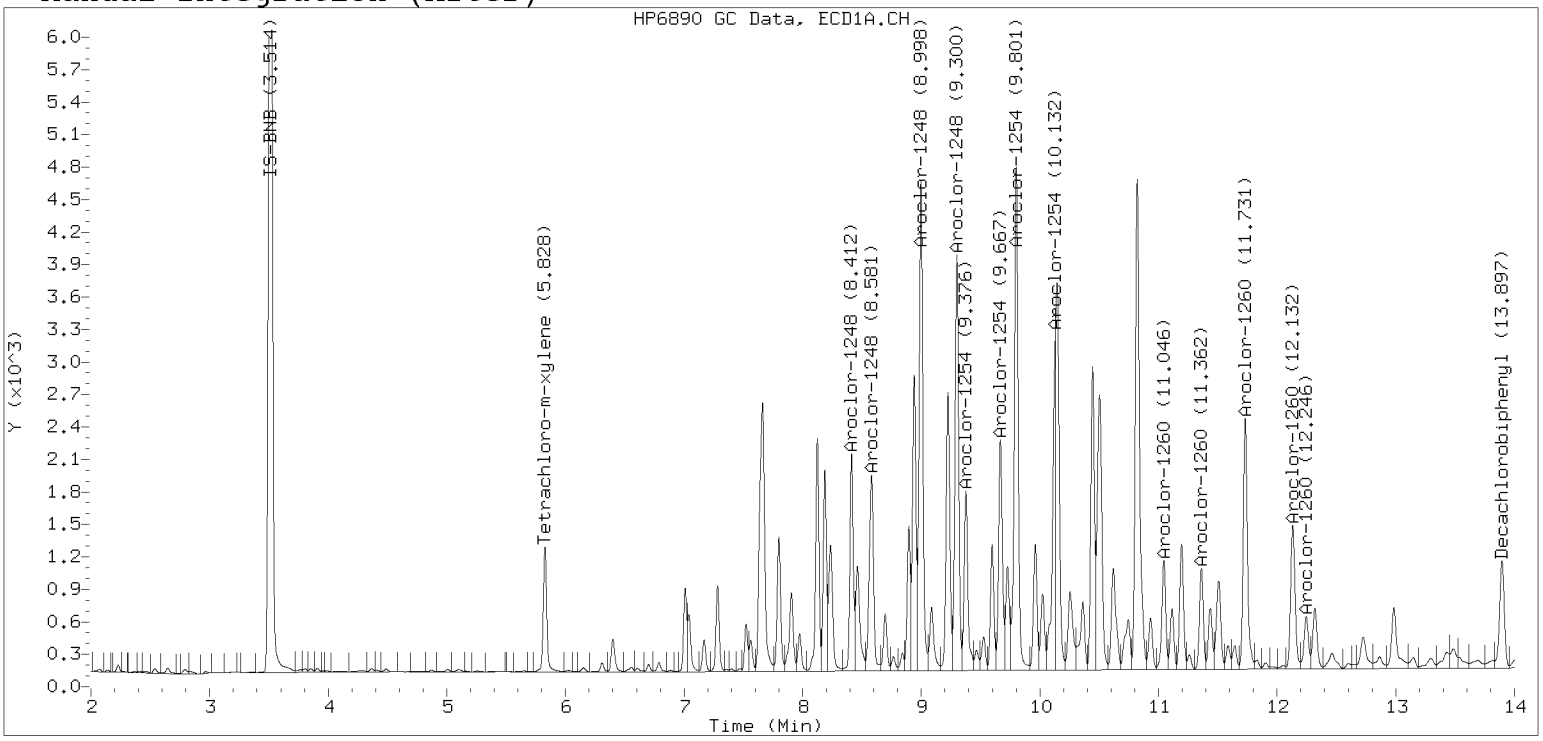


ZB-35 Manual Integration: NO

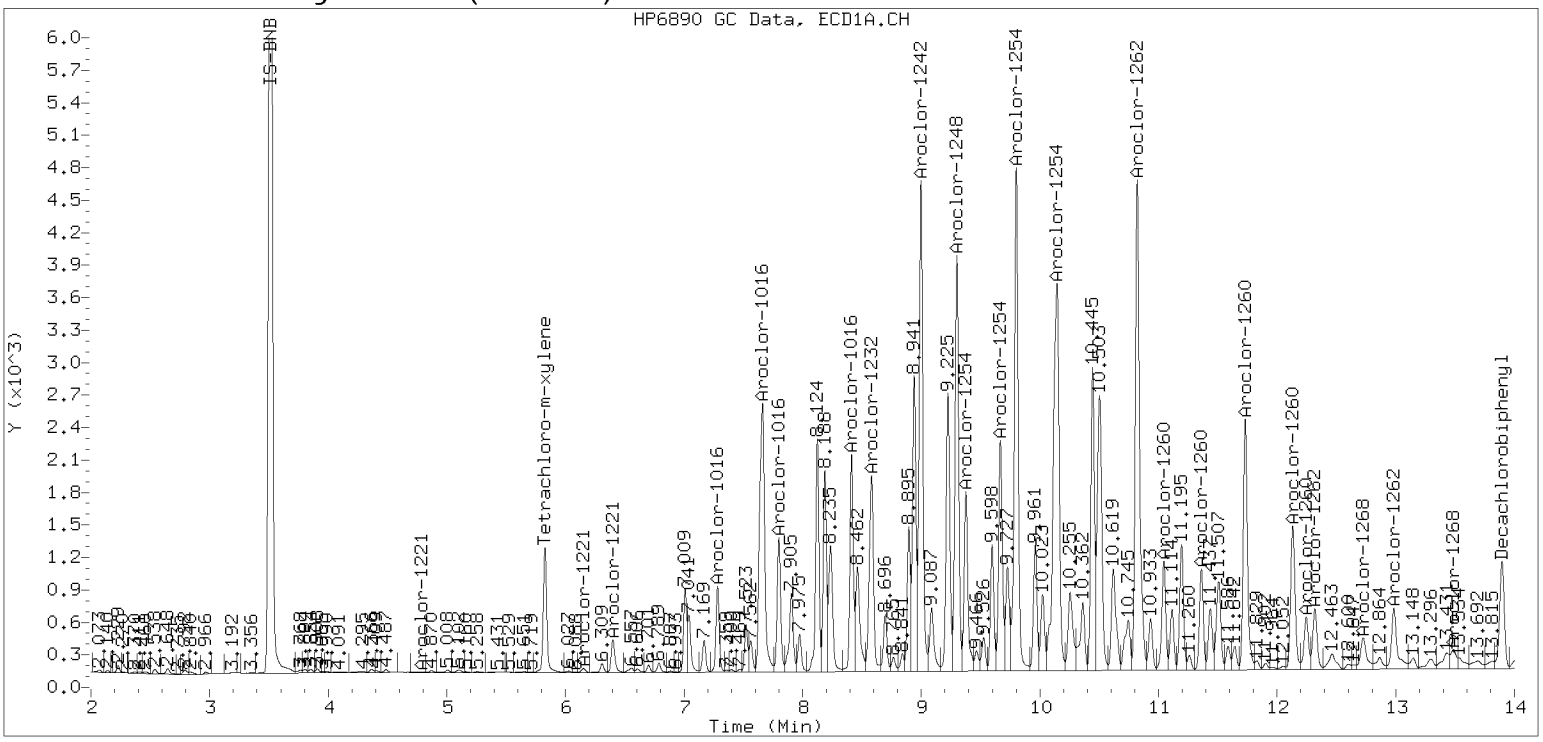
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221229.b/12292242ECD7.D Injection Date: 29-DEC-2022 23:20

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-03 B	File ID:	12292243ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/29/22 23:41
% Solids:	55.70	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.57 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0370	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	19.9	7.8	19.9	U
11104-28-2	Aroclor 1221	1	5	19.9	7.8	19.9	U
11141-16-5	Aroclor 1232	1	5	19.9	7.8	19.9	U
53469-21-9	Aroclor 1242	1	5	19.9	7.8	19.9	U
12672-29-6	Aroclor 1248	1	5	626	7.8	19.9	D
11097-69-1	Aroclor 1254	2	5	844	7.8	19.9	D
11096-82-5	Aroclor 1260	2	5	336	2.9	19.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9545*	*8.76*	*110*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9545*	*6.58*	*82.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9545*	*7.85*	*98.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9545*	*6.85*	*86.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292243ECD7.D
Data file 2: /221229.b/221229.b/12292243ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-03RE1
Client ID:
Injection Date: 29-DEC-2022 23:41
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	41887	5.703	-0.005	27659	6.6	6.9	4.0	Tetrachloro-m-xylene
13.895	-0.008	46176	14.123	-0.006	42484	8.8	7.9	11.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	446888	-0.2
Hexabromobiphenyl	798898	571529	-28.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	293004	17.6
Hexabromobiphenyl	362541	378946	4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.411	-0.012	78361	407.8	1	8.312	-0.009	65376	546.2
Aroclor-1248	2	8.580	-0.018	73394	299.2	2	8.718	-0.009	54499	432.9
Aroclor-1248	3	8.997	-0.021	236916	536.8	3	9.152	-0.021	89627	585.3
Aroclor-1248	4	9.299	-0.011	275668	1275.0	4	9.543	-0.050	72741	404.6
		Total Col1Ave (4 peaks):			629.7		Total Col2Ave (4 peaks):			492.2 RPD = 25
		Corrected Ave (3 peaks):			414.6		Corrected Ave (3 peaks):			461.2 RPD = 11
										521.47
Aroclor-1254	1	9.299	-0.015	275668	700.6	1	9.450	-0.010	155075	820.9
Aroclor-1254	2	9.375	-0.018	110798	724.1	2	9.967	-0.011	97277	640.5
Aroclor-1254	3	9.666	-0.020	179170	721.0	3	10.116	-0.013	262510	804.1
Aroclor-1254	4	9.800	-0.020	353769	730.3	4	10.355	-0.022	312390	923.9
Aroclor-1254	5	10.131	-0.045	180130	542.5	5	10.565	-0.011	172034	1055.0
		Total Col1Ave (5 peaks):			683.7		Total Col2Ave (5 peaks):			848.9 RPD = 22
		Corrected Ave (4 peaks):			672.0		Corrected Ave (4 peaks):			797.3 RPD = 17
Aroclor-1260	1	11.045	-0.011	64942	312.2	1	11.654	-0.008	101906	509.5
Aroclor-1260	2	11.361	-0.011	62554	290.7	2	11.914	-0.010	139822	278.6
Aroclor-1260	3	11.731	-0.015	161758	286.1	3	12.434	-0.011	37133	277.8
Aroclor-1260	4	12.131	-0.020	103824	360.6	4	12.497	-0.012	95285	284.8
Aroclor-1260	5	12.245	-0.011	29514	250.4	NS	---			----
		Total Col1Ave (5 peaks):			300.0		Total Col2Ave (4 peaks):			337.7 RPD = 12
		Corrected Ave (4 peaks):			284.9		Corrected Ave (3 peaks):			280.4 RPD = 2
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 4976899 Col1 Total PCB = 1.2 ppm*

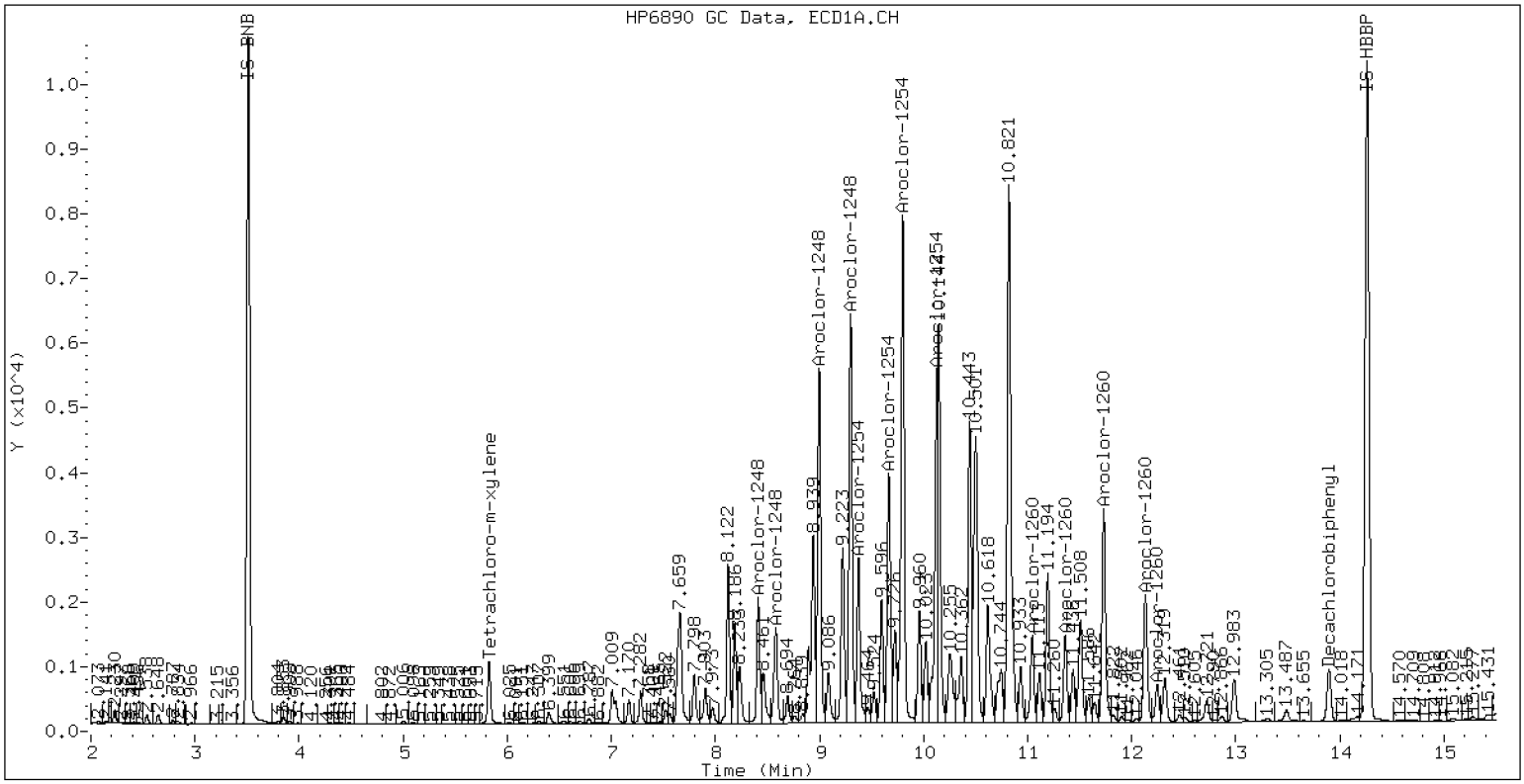
Total PCB Area Col2 (5.808 - 14.029) = 3494351 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

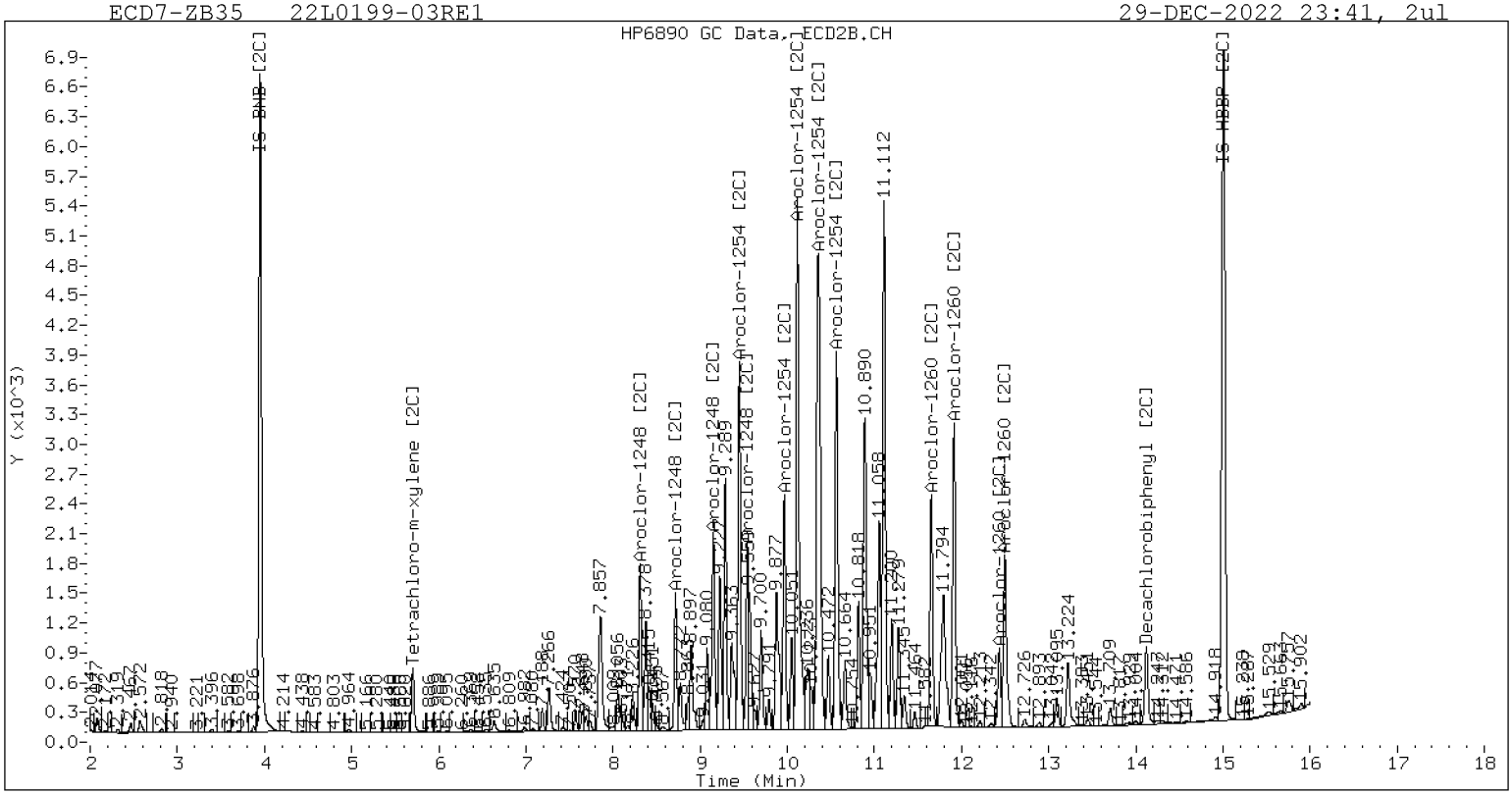
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-03RE1 29-DEC-2022 23:41, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-03RE1 29-DEC-2022 23:41, 2ul

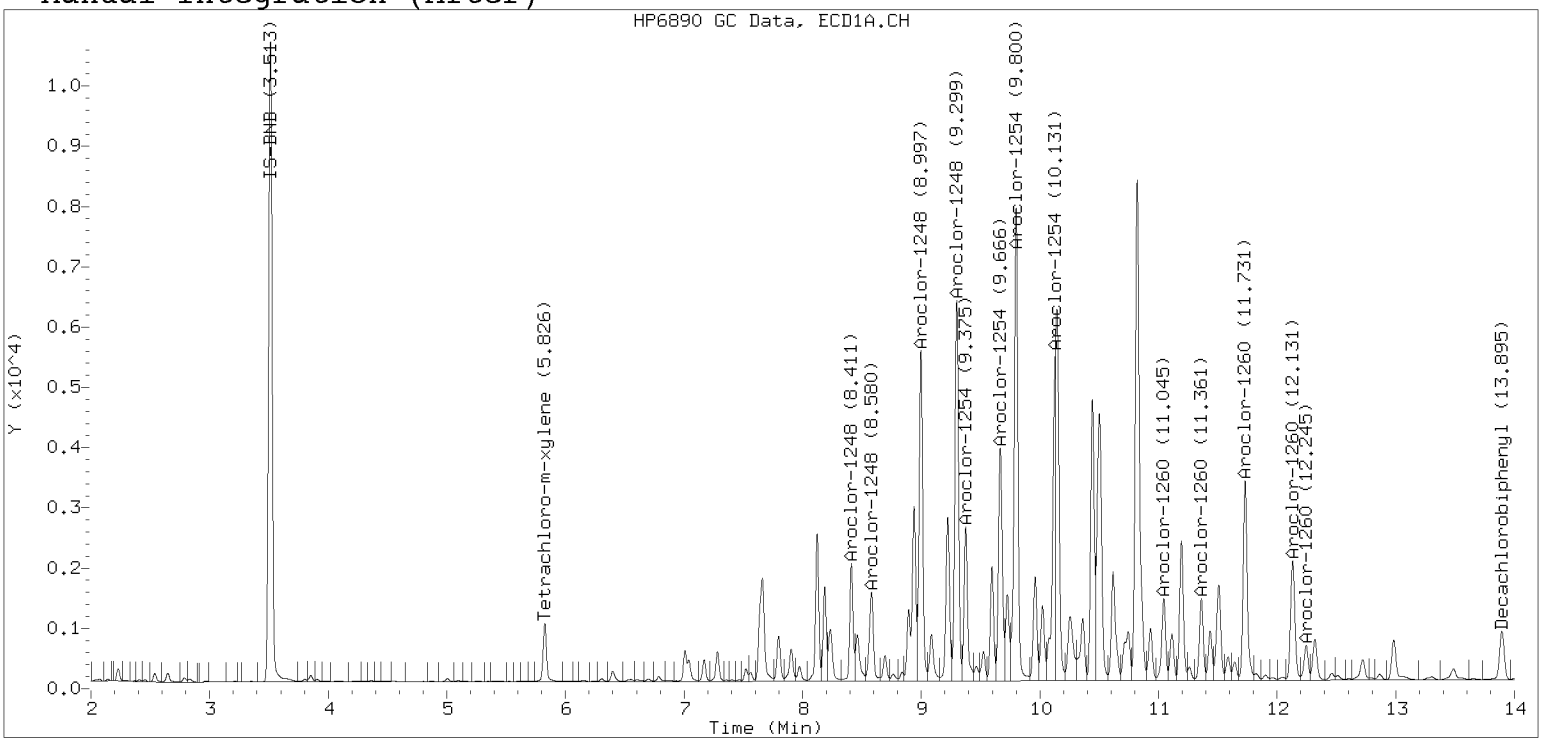


ZB-35 Manual Integration: YES

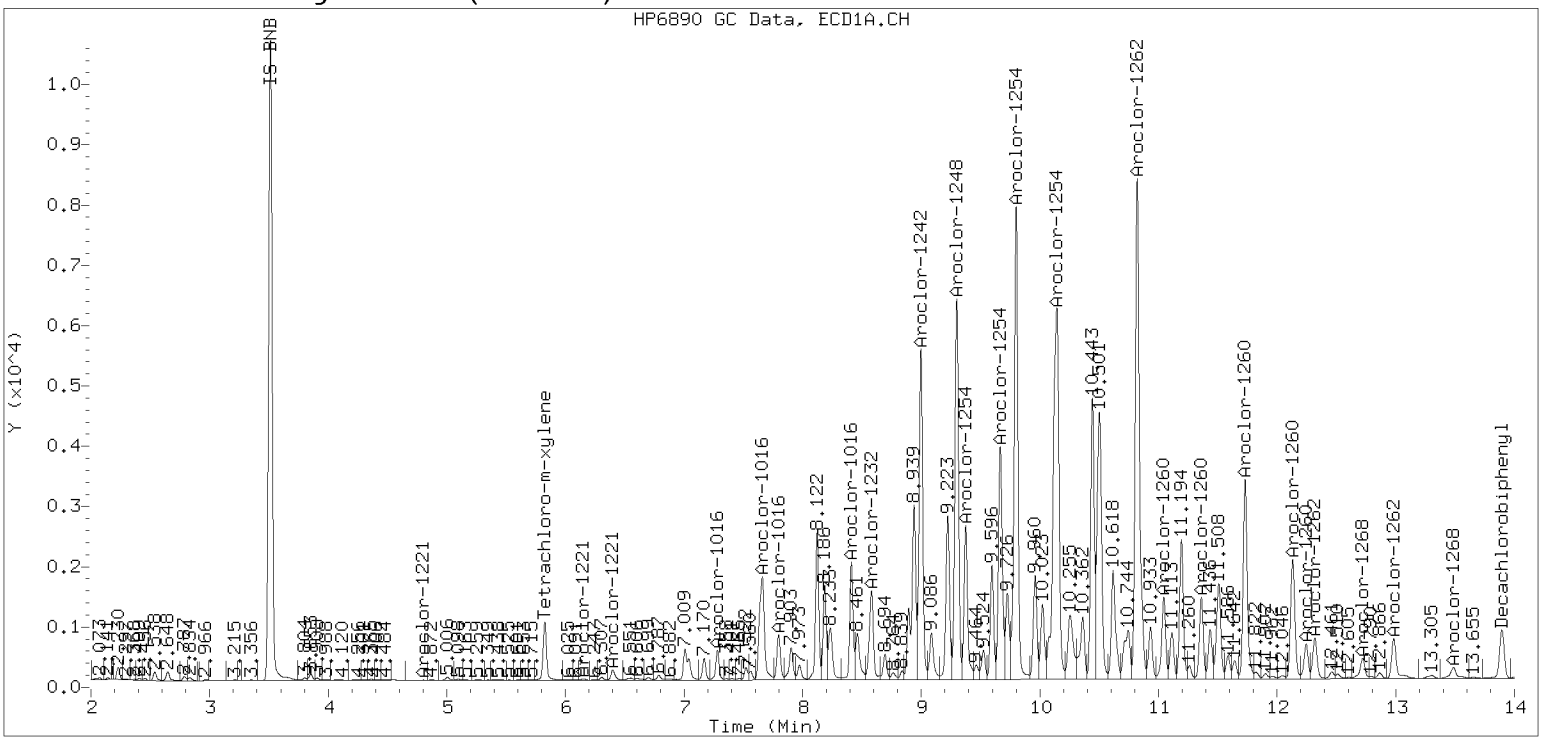
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221229.b/12292243ECD7.D Injection Date: 29-DEC-2022 23:41

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-04 B	File ID:	12312252ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	01/01/23 04:04
% Solids:	57.08	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.05 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	39.7	15.5	39.7	U
11104-28-2	Aroclor 1221	1	10	39.7	15.5	39.7	U
11141-16-5	Aroclor 1232	1	10	39.7	15.5	39.7	U
53469-21-9	Aroclor 1242	1	10	39.7	15.5	39.7	U
12672-29-6	Aroclor 1248	1	10	601	15.5	39.7	D
11097-69-1	Aroclor 1254	1	10	816	15.5	39.7	D
11096-82-5	Aroclor 1260	2	10	291	5.8	39.7	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9452*	*9.33*	*117*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9452*	*7.20*	*90.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9452*	*7.81*	*98.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9452*	*6.81*	*85.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312252ECD7.D
Data file 2: /221231.b/221231.b/12312252ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-04RE1
Client ID:
Injection Date: 01-JAN-2023 04:04
Report Date: 01/06/2023 12:25
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.005	25319	5.706	-0.004	15403	3.6	3.4	5.5	Tetrachloro-m-xylene
13.895	-0.007	31497	14.123	-0.007	26619	4.7	3.9	17.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	493213	10.2
Hexabromobiphenyl	798898	731579	-8.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	327615	31.5
Hexabromobiphenyl	362541	476713	31.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.011	43829	206.7	1	8.316	-0.007	34420	257.2
Aroclor-1248	2	8.584	-0.015	42257	156.1	2	8.722	-0.007	29066	206.5
Aroclor-1248	3	9.000	-0.019	123610	253.8	3	9.156	-0.018	46527	271.7
Aroclor-1248	4	9.302	-0.011	141875	594.6	4	9.546	-0.049	39475	196.4
	Total Col1Ave (4 peaks):				302.8	Total Col2Ave (4 peaks):				232.9 RPD = 26
	Corrected Ave (3 peaks):				205.5	Corrected Ave (3 peaks):				220.0 RPD = 7
Aroclor-1254	1	9.302	-0.012	141875	326.7	1	9.452	-0.009	77986	369.2
Aroclor-1254	2	9.378	-0.015	57645	341.3	2	9.971	-0.008	49371	290.7
Aroclor-1254	3	9.674	-0.011	125497	457.6	3	10.119	-0.011	129180	353.9
Aroclor-1254	4	9.802	-0.018	181424	339.3	4	10.363	-0.015	154303	408.2
Aroclor-1254	5	10.146	-0.027	216284	590.2	5	10.567	-0.008	88412	484.9
	Total Col1Ave (5 peaks):				411.0	Total Col2Ave (5 peaks):				381.4 RPD = 7
	Corrected Ave (4 peaks):				366.2	Corrected Ave (4 peaks):				355.5 RPD = 3
Aroclor-1260	1	11.046	-0.011	39751	149.3	1	11.656	-0.007	52985	210.6
Aroclor-1260	2	11.362	-0.012	38422	139.5	2	11.917	-0.009	79498	125.9
Aroclor-1260	3	11.732	-0.014	97917	135.3	3	12.436	-0.009	20796	123.7
Aroclor-1260	4	12.133	-0.018	58946	159.9	4	12.499	-0.010	52845	125.5
Aroclor-1260	5	12.245	-0.011	18952	125.6	NS	---			----
	Total Col1Ave (5 peaks):				141.9	Total Col2Ave (4 peaks):				146.4 RPD = 3
	Corrected Ave (4 peaks):				137.4	Corrected Ave (3 peaks):				125.0 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.802) = 2738825 Col1 Total PCB = 0.6 ppm*

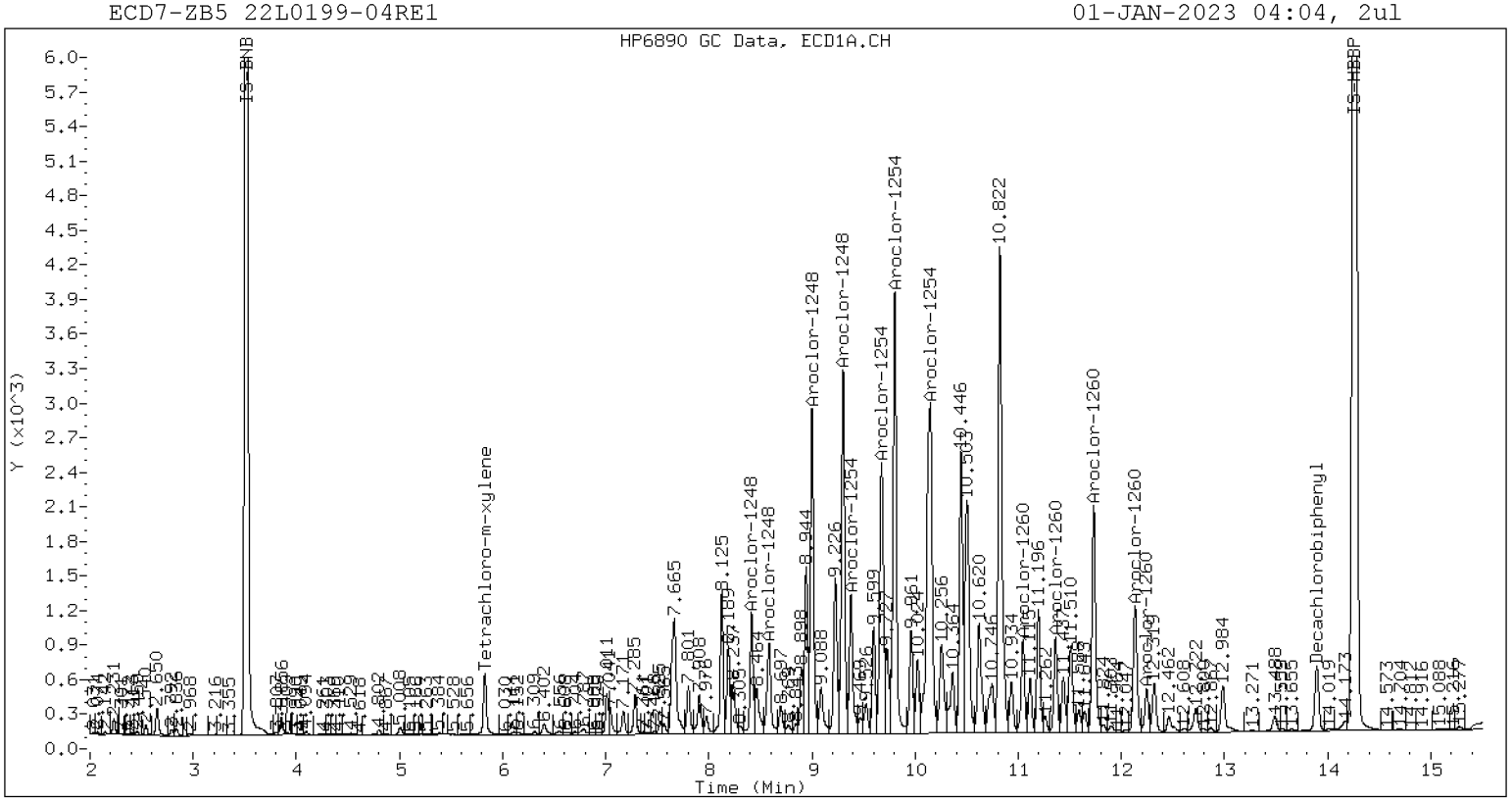
Total PCB Area Col2 (5.810 - 14.030) = 1853507 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

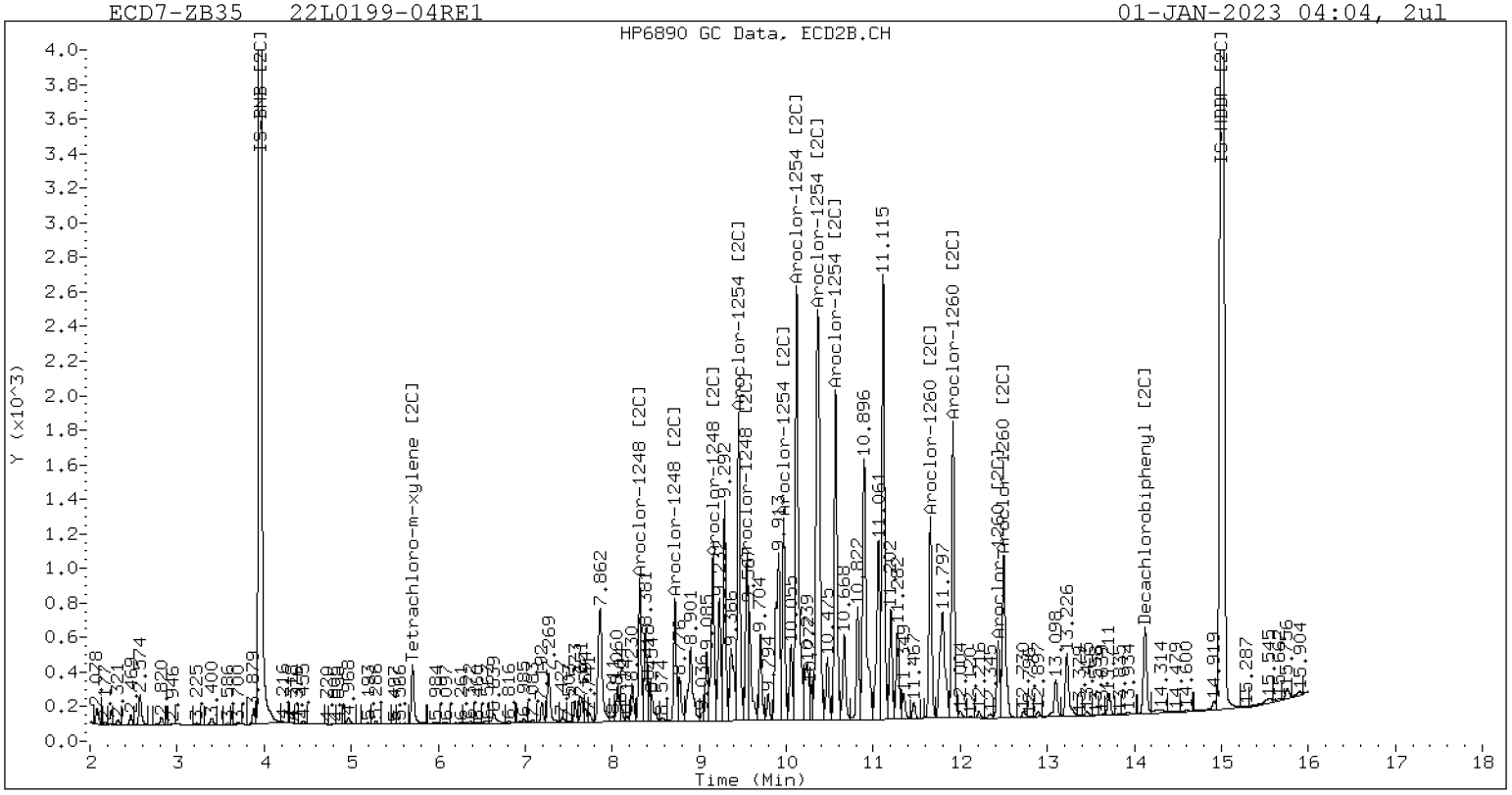
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-04RE1 01-JAN-2023 04:04, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-04RE1 01-JAN-2023 04:04, 2ul

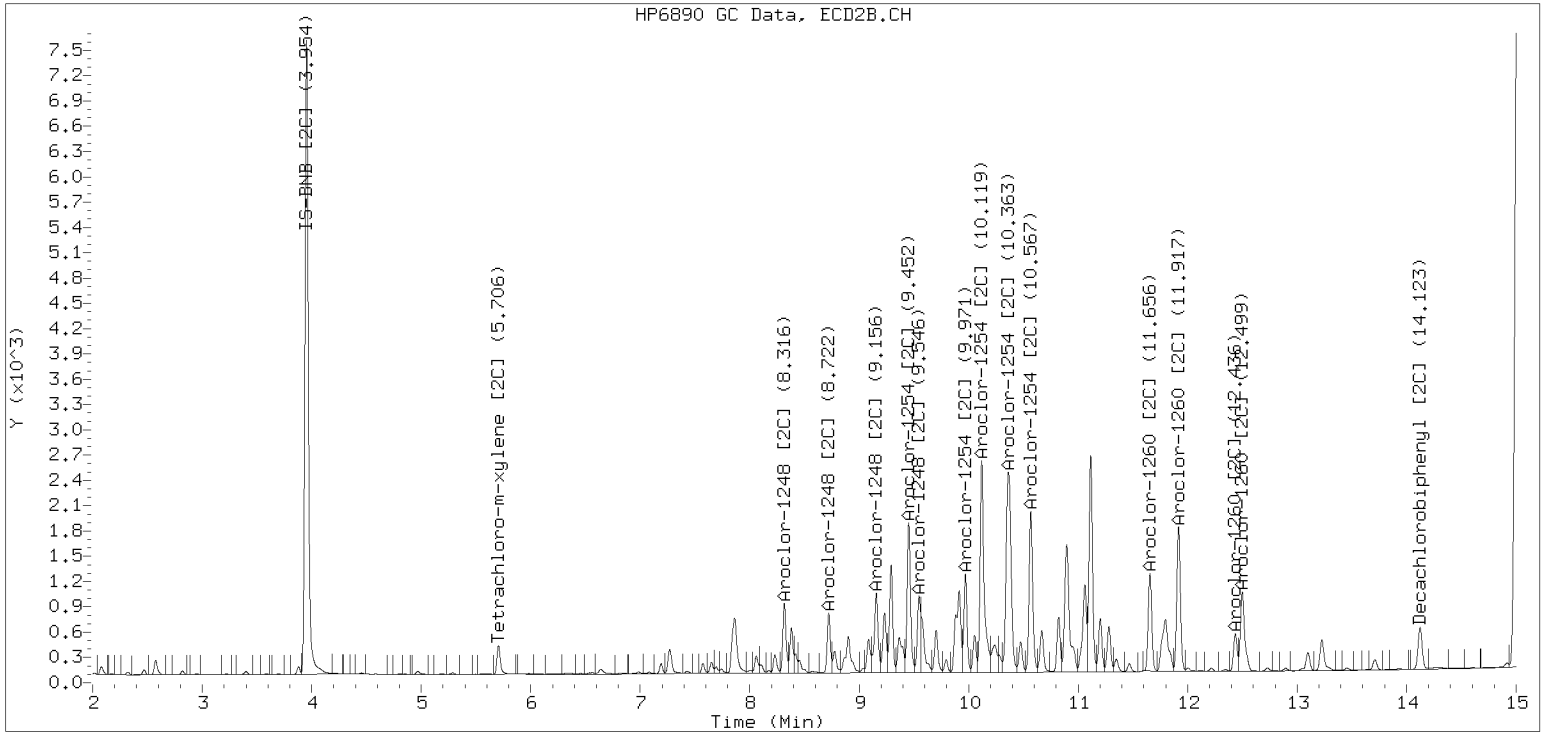


ZB-35 Manual Integration: YES

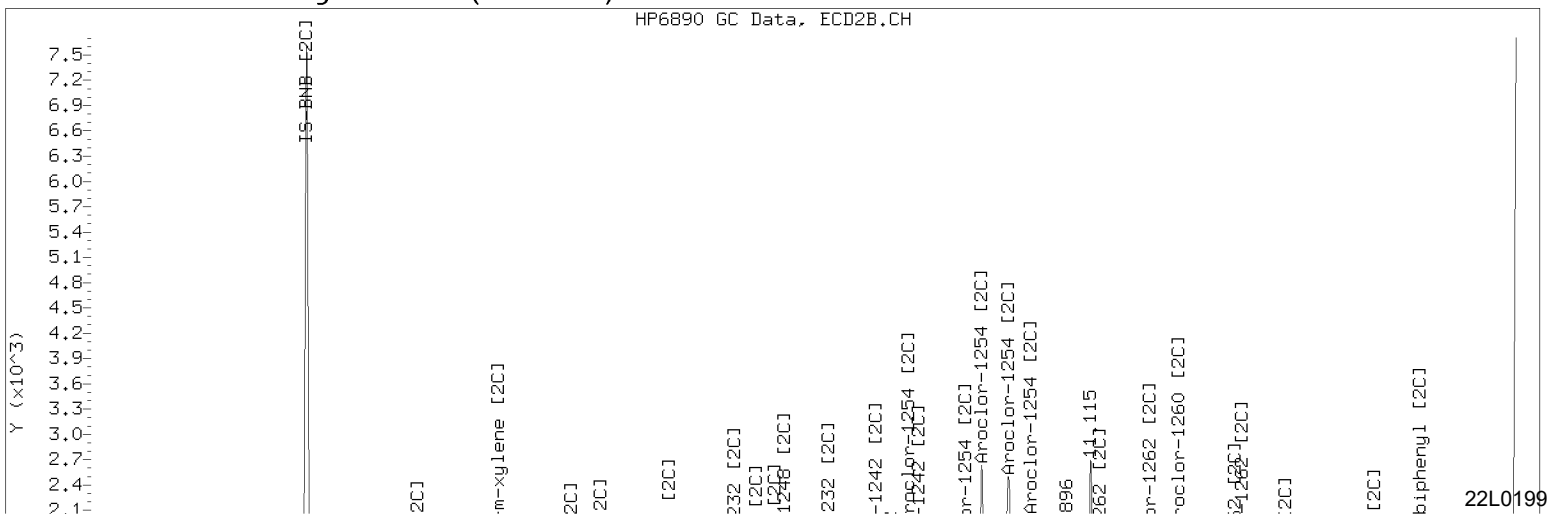
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312252ECD7.D Injection Date: 01-JAN-2023 04:04

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-05 B	File ID:	12272253ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 10:57
% Solids:	71.25	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.77 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	3.9	1.5	3.9	U
11104-28-2	Aroclor 1221	1	1	3.9	1.5	3.9	U
11141-16-5	Aroclor 1232	1	1	3.9	1.5	3.9	U
53469-21-9	Aroclor 1242	1	1	3.9	1.5	3.9	U
12672-29-6	Aroclor 1248	1	1	99.1	1.5	3.9	
11097-69-1	Aroclor 1254	2	1	146	1.5	3.9	
11096-82-5	Aroclor 1260	2	1	67.5	0.6	3.9	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.8982*	*8.49*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.8982*	*6.09*	*77.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.8982*	*8.45*	*107*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.8982*	*6.86*	*86.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272253ECD7.D
Data file 2: /221227.b/221227.b/12272253ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-05
Client ID:
Injection Date: 28-DEC-2022 10:57
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.004	203649	5.704	-0.005	140673	30.8	34.7	11.9	Tetrachloro-m-xylene
13.896	-0.008	188596	14.125	-0.003	199659	43.0	42.8	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466184	4.1
Hexabromobiphenyl	798898	478549	-40.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	295556	18.7
Hexabromobiphenyl	362541	328683	-9.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.411	-0.016	70268	350.6	1	8.314	-0.008	61041	505.6
Aroclor-1248	2	8.581	-0.023	69991	273.5	2	8.719	-0.008	65743	517.7
Aroclor-1248	3	8.997	-0.025	212879	462.4	3	9.152	-0.021	94050	608.8
Aroclor-1248	4	9.300	-0.012	207777	921.2	4	9.629	0.036	18181	100.3
	Total Col1Ave (4 peaks):				501.9	Total Col2Ave (4 peaks):				433.1 RPD = 15
	Corrected Ave (3 peaks):				362.1	Corrected Ave (3 peaks):				374.5 RPD = 3
Aroclor-1254	1	9.300	-0.022	207777	506.2	1	9.451	-0.010	139561	732.4
Aroclor-1254	2	9.375	-0.027	86309	540.7	2	9.968	-0.010	97363	635.5
Aroclor-1254	3	9.667	-0.028	139770	539.1	3	10.117	-0.013	224685	682.3
Aroclor-1254	4	9.800	-0.031	276062	546.3	4	10.358	-0.021	260323	763.3
Aroclor-1254	5	10.142	-0.048	330454	954.0	5	10.566	-0.010	145211	882.8
	Total Col1Ave (5 peaks):				617.3	Total Col2Ave (5 peaks):				739.3 RPD = 18
	Corrected Ave (4 peaks):				533.1	Corrected Ave (4 peaks):				703.4 RPD = 28
Aroclor-1260	1	11.044	-0.011	63355	363.7	1	11.655	-0.008	82500	475.5
Aroclor-1260	2	11.362	-0.010	56014	310.9	2	11.916	-0.010	130003	298.6
Aroclor-1260	3	11.731	-0.013	146196	308.8	3	12.436	-0.009	35024	302.1
Aroclor-1260	4	12.132	-0.018	84292	349.7	4	12.499	-0.010	84530	291.3
Aroclor-1260	5	12.245	-0.010	29038	294.2	NS	---			----
	Total Col1Ave (5 peaks):				325.5	Total Col2Ave (4 peaks):				341.9 RPD = 5
	Corrected Ave (4 peaks):				315.9	Corrected Ave (3 peaks):				297.3 RPD = 6
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 9447472 Col1 Total PCB = 2.1 ppm*

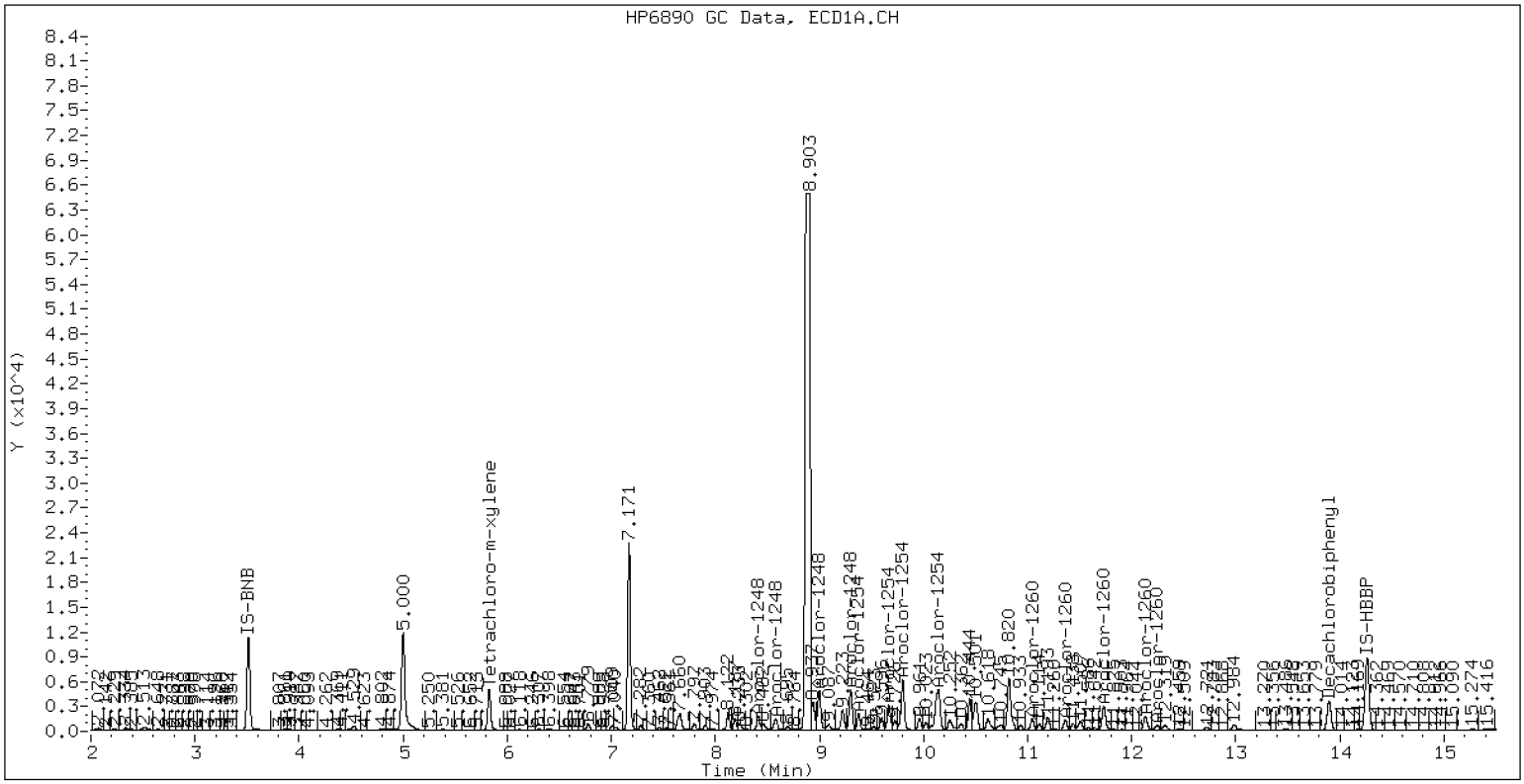
Total PCB Area Col2 (5.809 - 14.028) = 6583362 Col2 Total PCB = 2.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

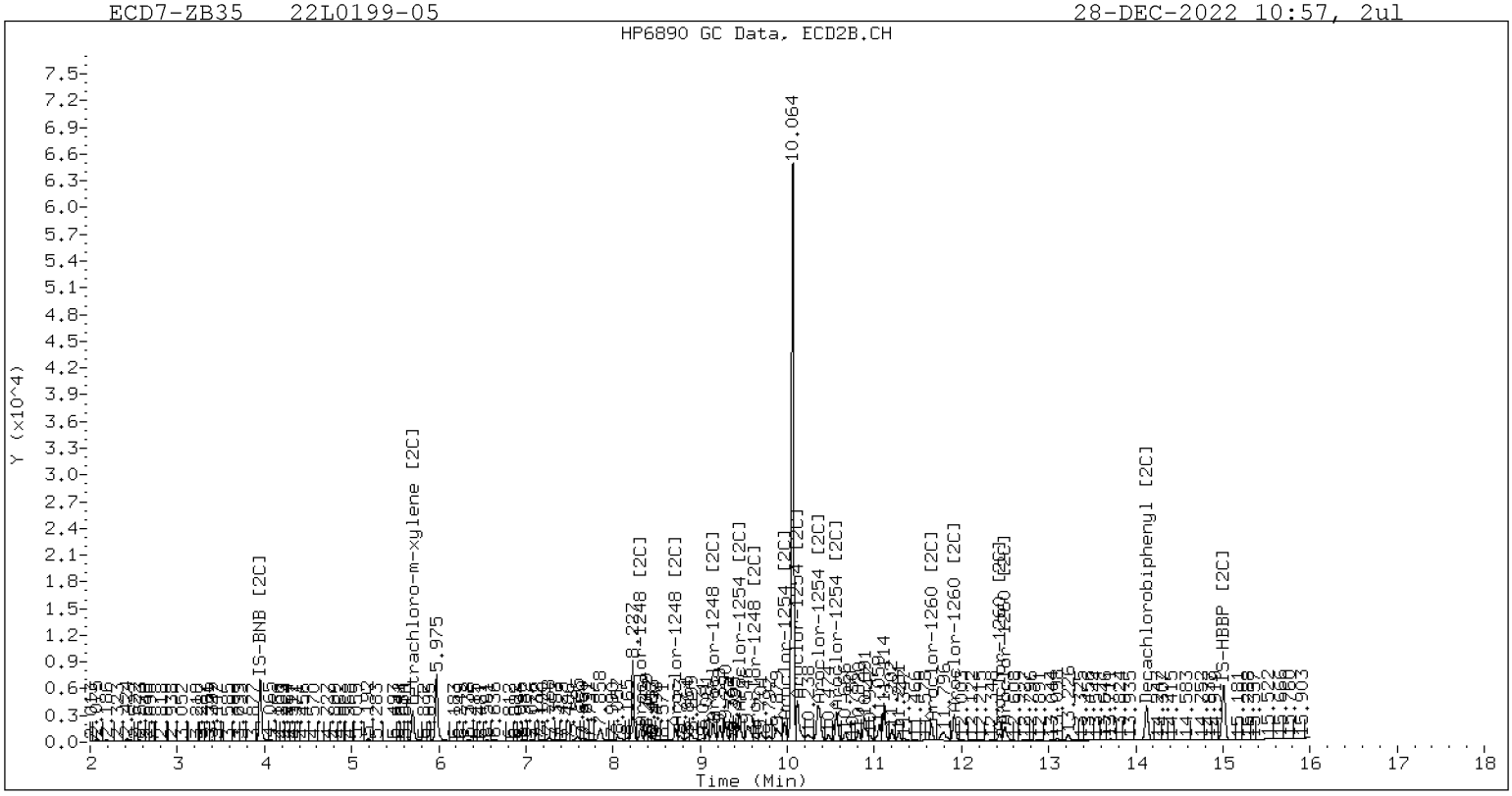
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-05 28-DEC-2022 10:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-05 28-DEC-2022 10:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-06 B	File ID:	12272254ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 11:18
% Solids:	75.38	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.64 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	7.4	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	14.1	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	7.2	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9724*	*8.84*	*111*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9724*	*6.67*	*83.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9724*	*8.68*	*109*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9724*	*7.15*	*89.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272254ECD7.D
Data file 2: /221227.b/221227.b/12272254ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-06
Client ID:
Injection Date: 28-DEC-2022 11:18
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.004	215064	5.705	-0.004	142972	33.5	35.9	6.8	Tetrachloro-m-xylene
13.897	-0.006	227698	14.125	-0.003	224626	44.3	43.6	1.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453199	1.2
Hexabromobiphenyl	798898	560319	-29.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	290857	16.8
Hexabromobiphenyl	362541	363220	0.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.414	-0.014	7619	39.1	1	8.316	-0.006	5076	42.7
Aroclor-1248	2	8.582	-0.022	6641	26.7	2	8.721	-0.006	3849	30.8
Aroclor-1248	3	9.000	-0.022	20035	44.8	3	9.155	-0.018	5696	37.5
Aroclor-1248	4	9.302	-0.009	22945	104.6	4	9.630	0.036	743	4.2
		Total Col1Ave (4 peaks):			53.8		Total Col2Ave (4 peaks):			28.8 RPD = 61*
		Corrected Ave (3 peaks):			36.9		Corrected Ave (3 peaks):			24.1 RPD = 42*
Aroclor-1254	1	9.302	-0.019	22945	57.5	1	9.452	-0.009	12478	66.5
Aroclor-1254	2	9.377	-0.025	10302	66.4	2	9.970	-0.009	7164	47.5
Aroclor-1254	3	9.670	-0.024	13564	53.8	3	10.118	-0.012	21170	65.3
Aroclor-1254	4	9.803	-0.028	30336	61.8	4	10.364	-0.014	26516	79.0
Aroclor-1254	5	10.136	-0.053	17294	51.4	5	10.568	-0.008	15285	94.4
		Total Col1Ave (5 peaks):			58.2		Total Col2Ave (5 peaks):			70.6 RPD = 19
		Corrected Ave (4 peaks):			56.1		Corrected Ave (4 peaks):			64.6 RPD = 14
					59.88					
Aroclor-1260	1	11.046	-0.009	8116	39.8	1	11.657	-0.006	8843	46.1
Aroclor-1260	2	11.363	-0.009	6466	30.7	2	11.918	-0.008	13412	27.9
Aroclor-1260	3	11.732	-0.011	17971	32.4	3	12.436	-0.008	5159	40.3
Aroclor-1260	4	12.134	-0.015	9840	34.9	4	12.500	-0.009	9868	30.8
Aroclor-1260	5	12.247	-0.008	4369	37.8	NS	---			----
		Total Col1Ave (5 peaks):			35.1		Total Col2Ave (4 peaks):			36.3 RPD = 3
		Corrected Ave (4 peaks):			33.9		Corrected Ave (3 peaks):			33.0 RPD = 3
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.931 - 13.803) = 783741 Col1 Total PCB = 0.2 ppm*

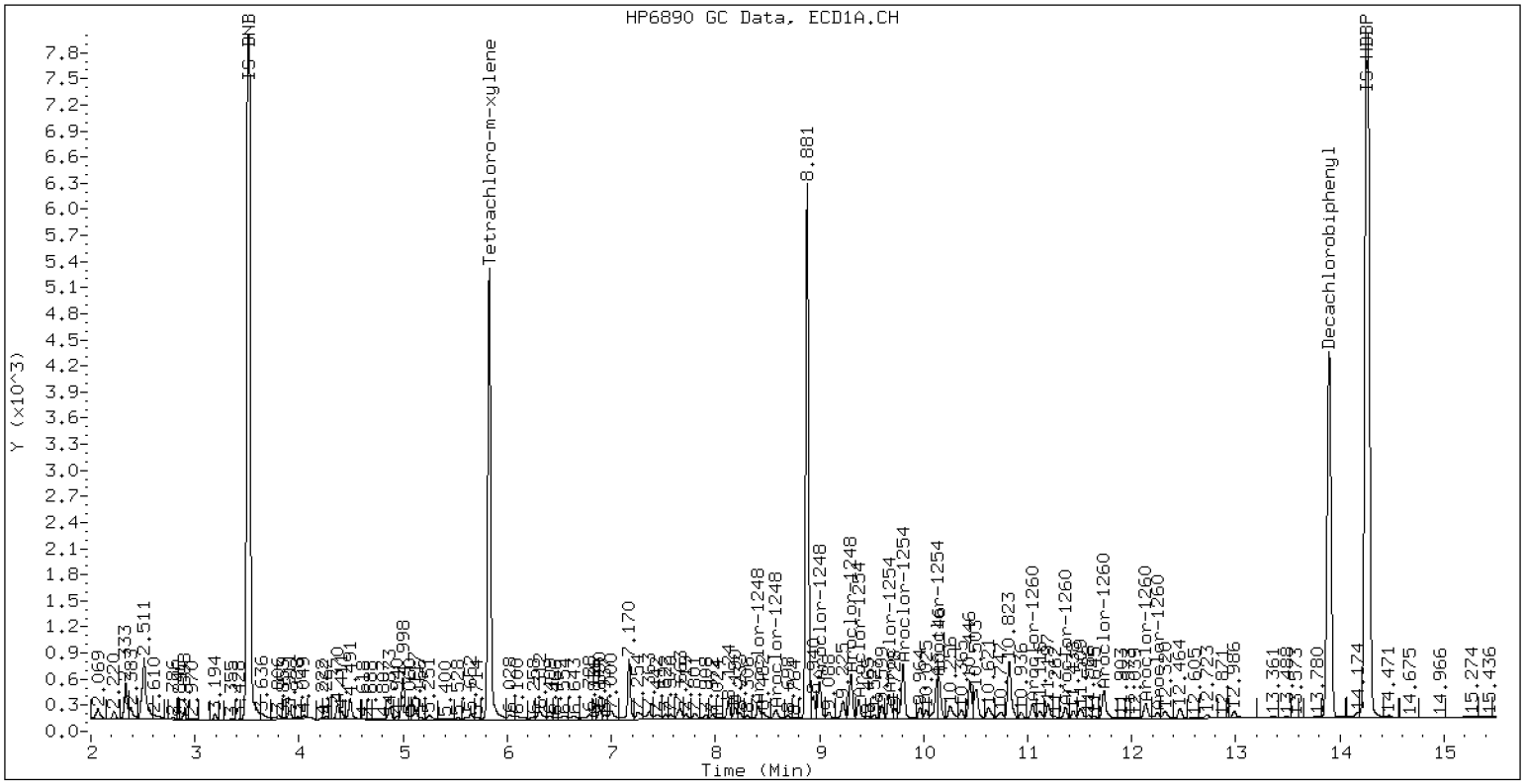
Total PCB Area Col2 (5.809 - 14.028) = 452511 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

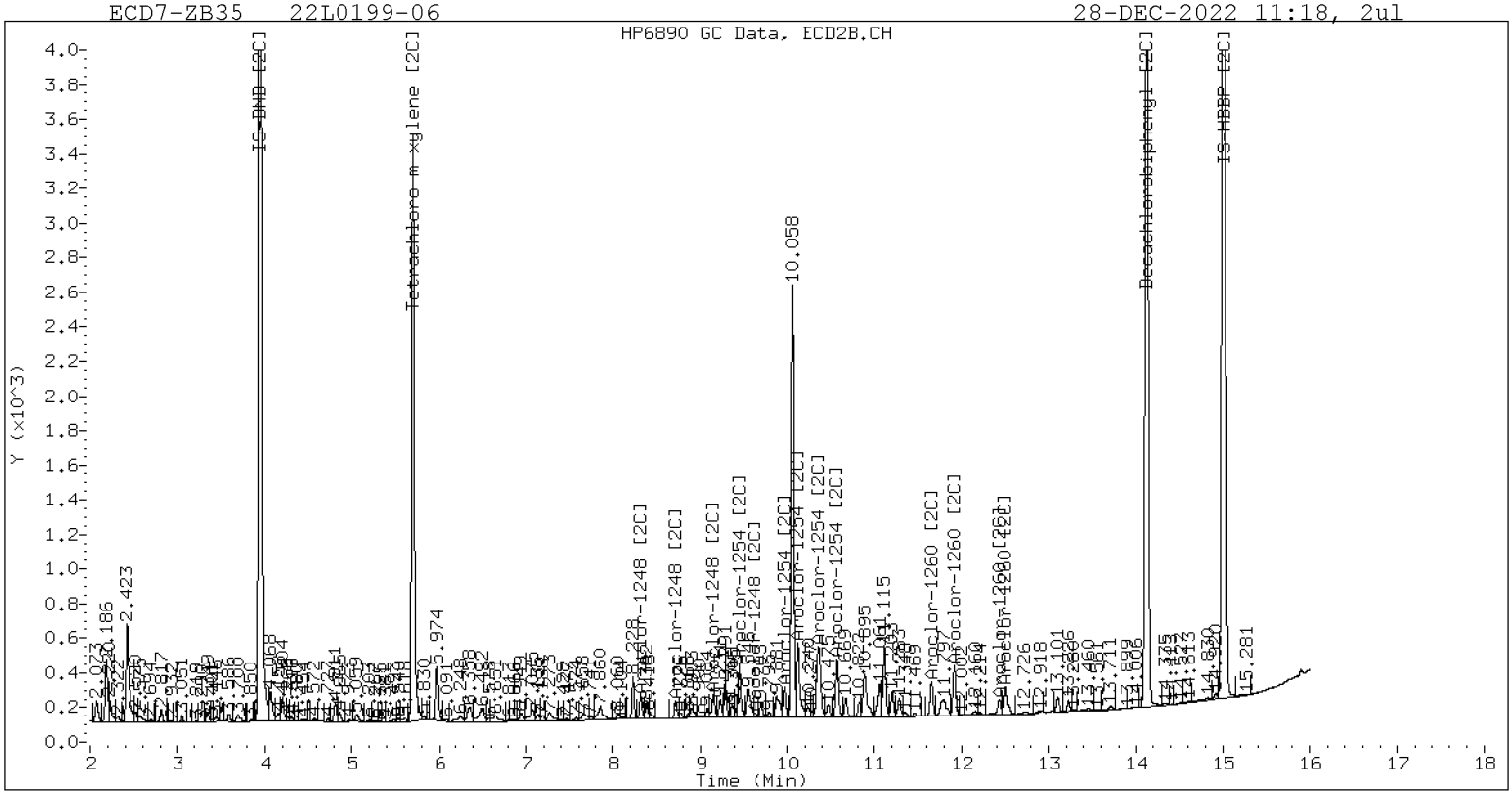
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-06 28-DEC-2022 11:18, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-06 28-DEC-2022 11:18, 2ul

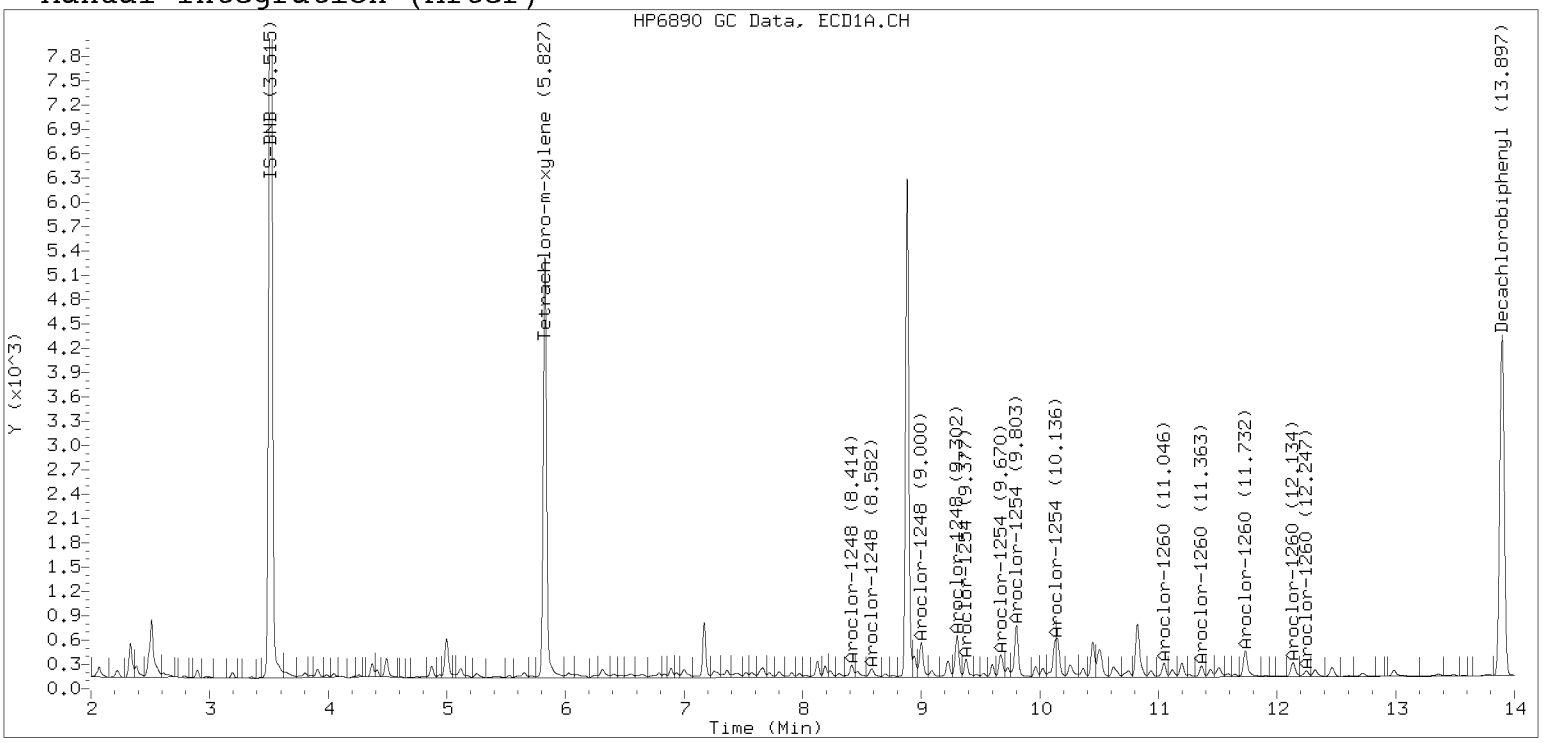


ZB-35 Manual Integration: NO

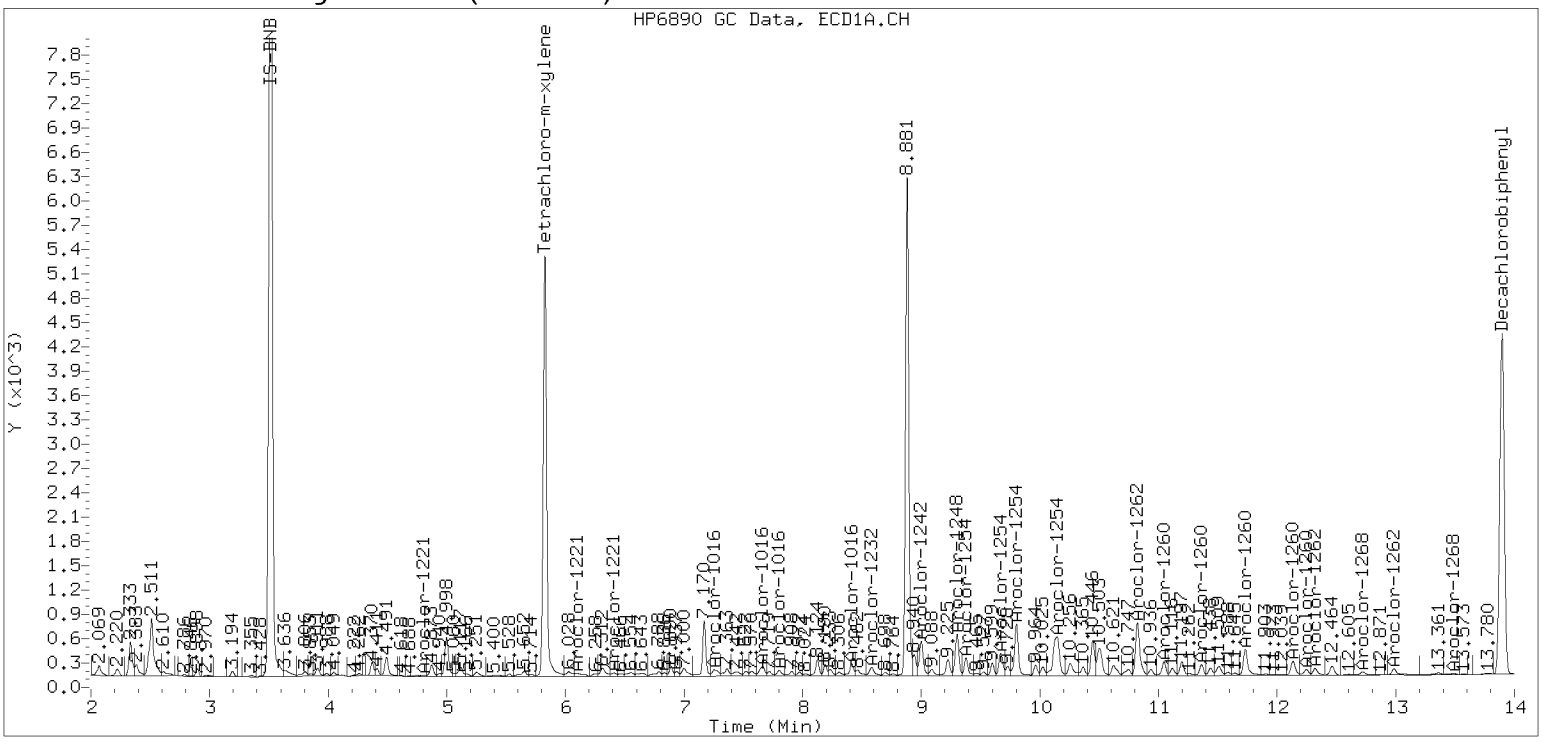
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221227.b/12272254ECD7.D Injection Date: 28-DEC-2022 11:18

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-07 B	File ID:	01042307ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	01/04/23 11:29
% Solids:	68.98	Preparation:	EPA 3546 (Microwave)	Initial/Final:	18.4 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	19.7	7.7	19.7	U
11104-28-2	Aroclor 1221	1	5	19.7	7.7	19.7	U
11141-16-5	Aroclor 1232	1	5	19.7	7.7	19.7	U
53469-21-9	Aroclor 1242	1	5	19.7	7.7	19.7	U
12672-29-6	Aroclor 1248	1	5	19.7	7.7	19.7	U
11097-69-1	Aroclor 1254	2	5	48.8	7.7	19.7	D
11096-82-5	Aroclor 1260	2	5	28.5	2.9	19.7	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.8788*	*10.6*	*135*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.8788*	*7.62*	*96.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.8788*	*8.80*	*112*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.8788*	*7.49*	*95.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042307ECD7.D
Data file 2: /230104.b/230104.b/01042307ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-07RE2
Client ID:
Injection Date: 04-JAN-2023 11:29
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.002	47925	5.706	-0.001	31172	7.7	7.6	1.6	Tetrachloro-m-xylene
13.898	-0.004	65980	14.126	-0.002	52647	10.8	8.9	18.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	437368	-2.3
Hexabromobiphenyl	798898	667355	-16.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	298882	20.0
Hexabromobiphenyl	362541	415190	14.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	9.305	-0.016	15084	39.2	1	9.455	-0.005	8597	44.6
Aroclor-1254	2	9.382	-0.020	7292	48.7	2	9.973	-0.004	4949	31.9
Aroclor-1254	3	9.678	-0.016	9894	40.7	3	10.123	-0.005	14659	44.0
Aroclor-1254	4	9.808	-0.022	20049	42.3	4	10.372	-0.005	18344	53.2
Aroclor-1254	5	10.128	-0.062	14427	44.4	5	10.570	-0.005	12283	73.8
		Total Col1Ave (5 peaks):			43.0		Total Col2Ave (5 peaks):			49.5 RPD = 14
		Corrected Ave (4 peaks):			41.6		Corrected Ave (4 peaks):			43.4 RPD = 4
Aroclor-1260	1	11.049	-0.006	8207	33.8	1	11.659	-0.002	7350	33.5
Aroclor-1260	2	11.365	-0.007	6279	25.0	2	11.920	-0.004	12771	23.2
Aroclor-1260	3	11.737	-0.009	17955	27.2	3	12.439	-0.004	4813	32.9
Aroclor-1260	4	12.138	-0.012	9885	29.4	4	12.503	-0.003	9574	26.1
Aroclor-1260	5	12.249	-0.006	4361	31.7	NS	---			----
		Total Col1Ave (5 peaks):			29.4		Total Col2Ave (4 peaks):			28.9 RPD = 2
		Corrected Ave (4 peaks):			28.3		Corrected Ave (3 peaks):			27.4 RPD = 3
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 363427 Col1 Total PCB = 0.1 ppm*

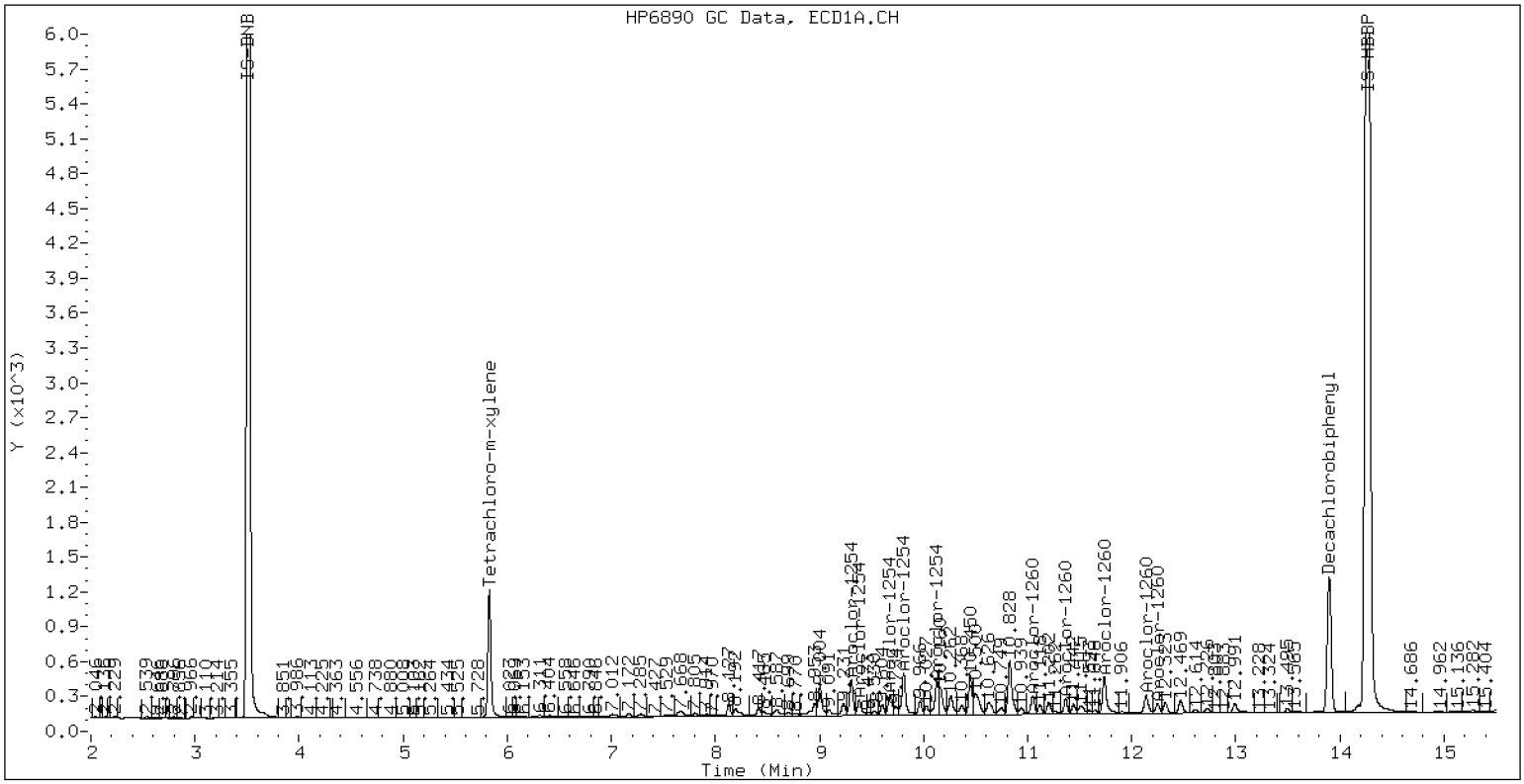
Total PCB Area Col2 (5.807 - 14.028) = 226127 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

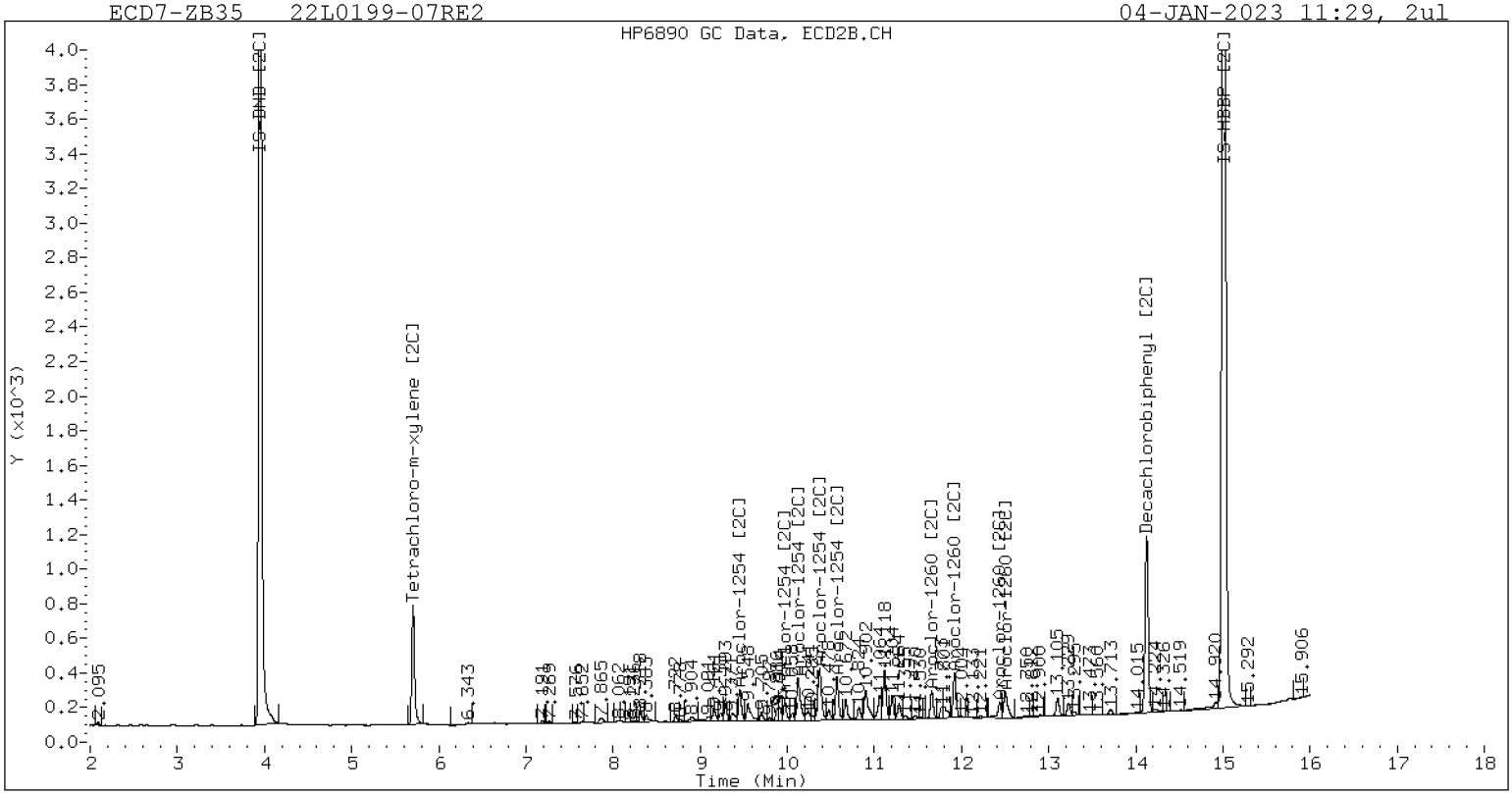
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-07RE2 04-JAN-2023 11:29, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-07RE2 04-JAN-2023 11:29, 2ul

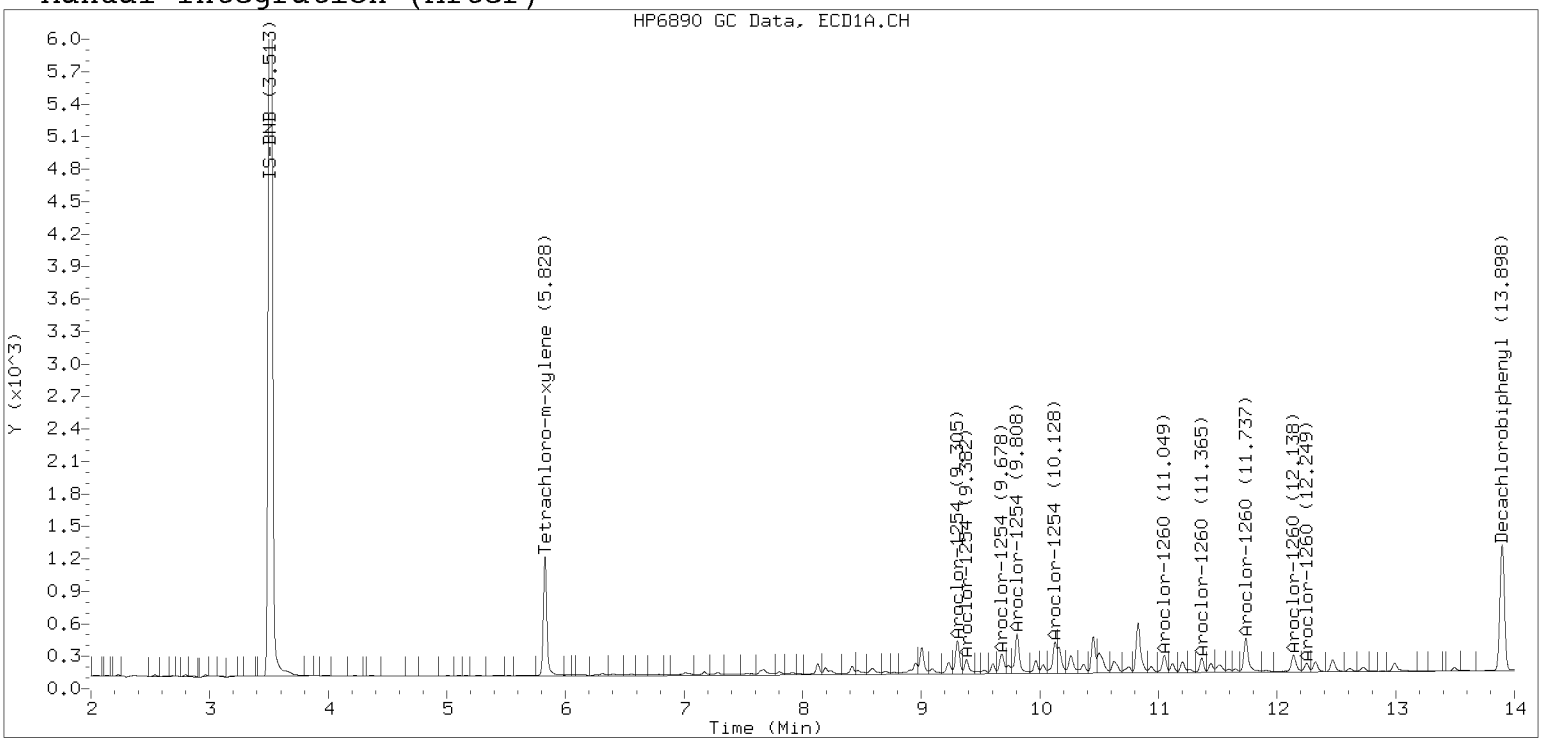


ZB-35 Manual Integration: NO

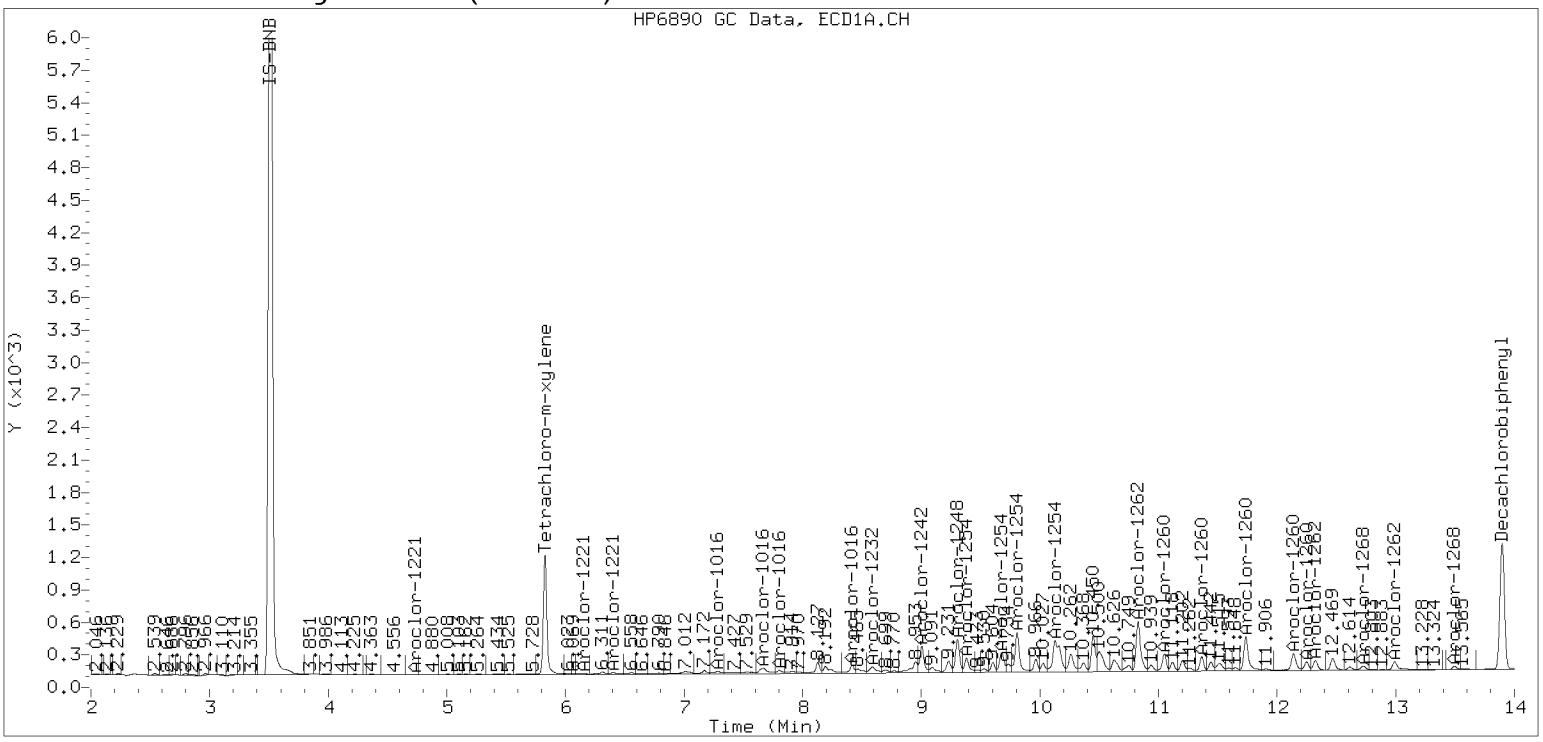
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042307ECD7.D Injection Date: 04-JAN-2023 11:29

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-08 B	File ID:	12272256ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 12:00
% Solids:	64.68	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.57 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9002*	*7.99*	*101*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9002*	*6.25*	*79.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272256ECD7.D
Data file 2: /221227.b/221227.b/12272256ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-08
Client ID:
Injection Date: 28-DEC-2022 12:00
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.006	213093	5.702	-0.006	141449	31.7	34.5	8.6	Tetrachloro-m-xylene
13.897	-0.007	174298	14.124	-0.004	180327	40.5	39.1	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	474836	6.1
Hexabromobiphenyl	798898	470028	-41.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	298917	20.0
Hexabromobiphenyl	362541	324796	-10.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 11916631 Col1 Total PCB = 2.6 ppm*

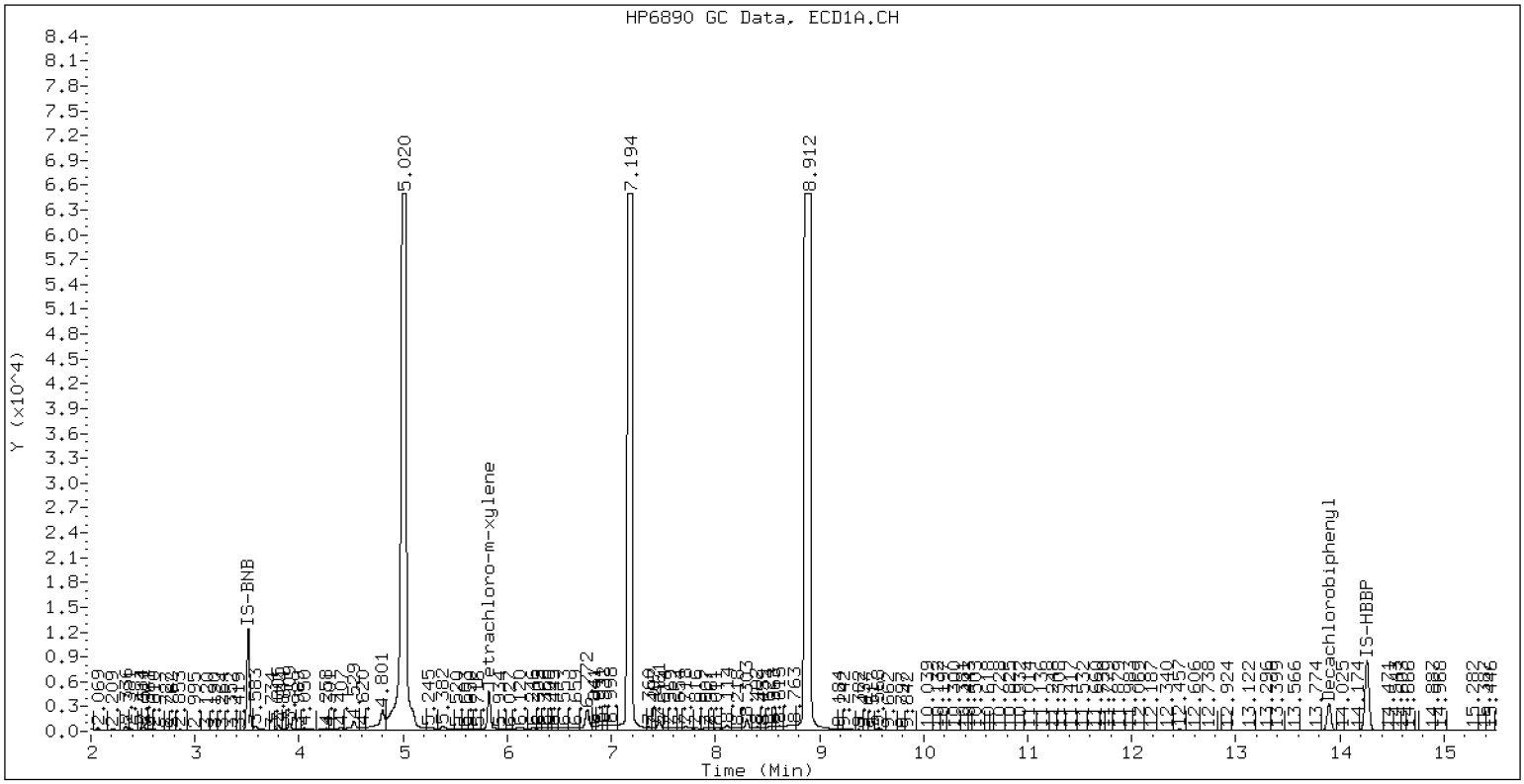
Total PCB Area Col2 (5.809 - 14.028) = 9096321 Col2 Total PCB = 3.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

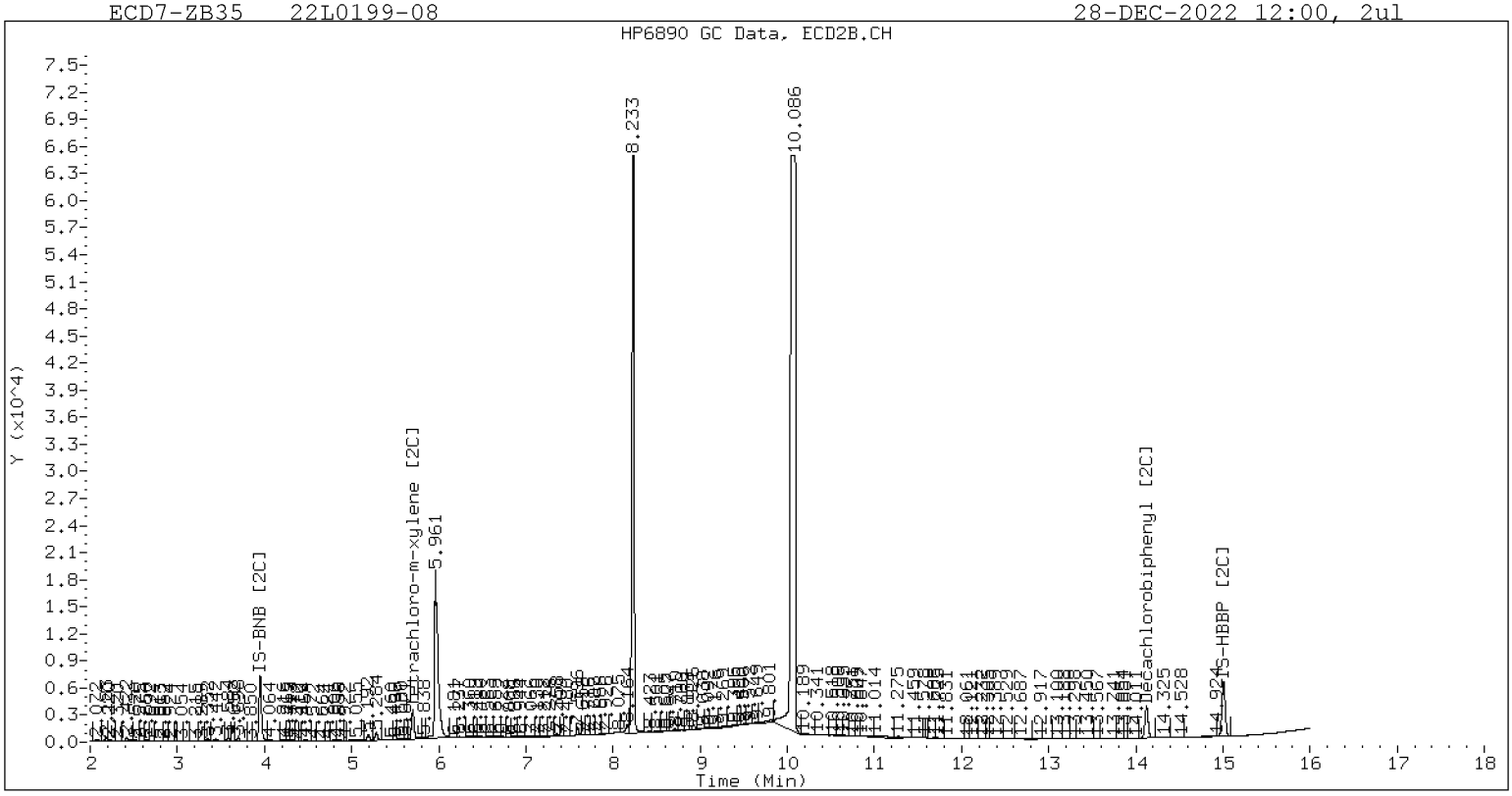
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-08 28-DEC-2022 12:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-08 28-DEC-2022 12:00, 2ul



ZB-35 Manual Integration: YES

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-09 B	File ID:	12292248ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/30/22 01:26
% Solids:	65.33	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.38 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0370	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	3.9	1.5	3.9	U
11104-28-2	Aroclor 1221	1	1	3.9	1.5	3.9	U
11141-16-5	Aroclor 1232	1	1	3.9	1.5	3.9	U
53469-21-9	Aroclor 1242	1	1	3.9	1.5	3.9	U
12672-29-6	Aroclor 1248	1	1	3.9	1.5	3.9	U
11097-69-1	Aroclor 1254	1	1	3.9	1.5	3.9	U
11096-82-5	Aroclor 1260	1	1	3.9	0.6	3.9	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.8983*	*9.62*	*122*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.8983*	*6.01*	*76.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292248ECD7.D
Data file 2: /221229.b/221229.b/12292248ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-09
Client ID:
Injection Date: 30-DEC-2022 01:26
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	181876	5.703	-0.006	128345	30.5	33.6	9.8	Tetrachloro-m-xylene
13.895	-0.008	187209	14.122	-0.007	183855	48.7	44.1	10.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	421353	-5.9
Hexabromobiphenyl	798898	419078	-47.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	278748	11.9
Hexabromobiphenyl	362541	293577	-19.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 80658 Col1 Total PCB = 0.0 ppm*

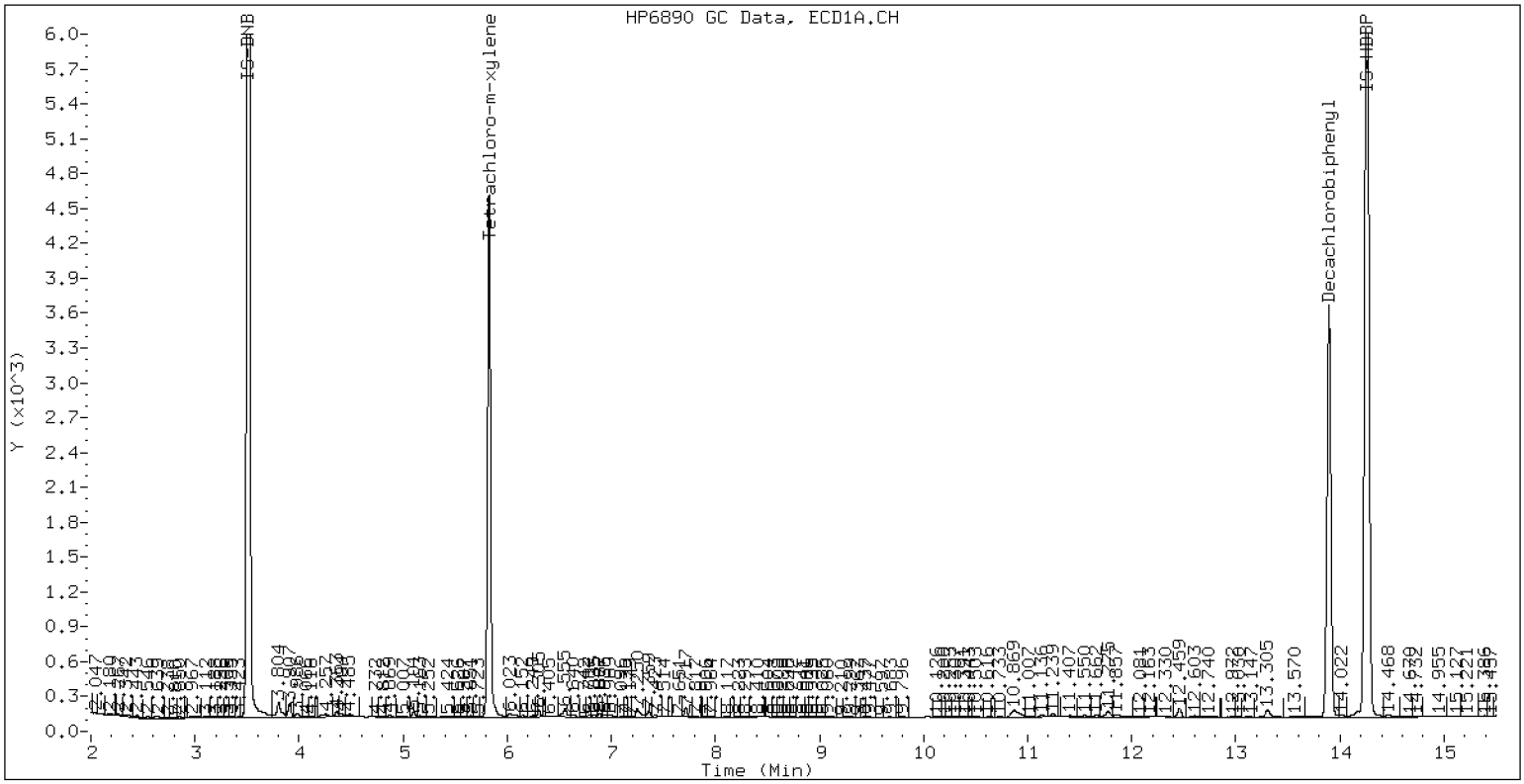
Total PCB Area Col2 (5.808 - 14.029) = 55033 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

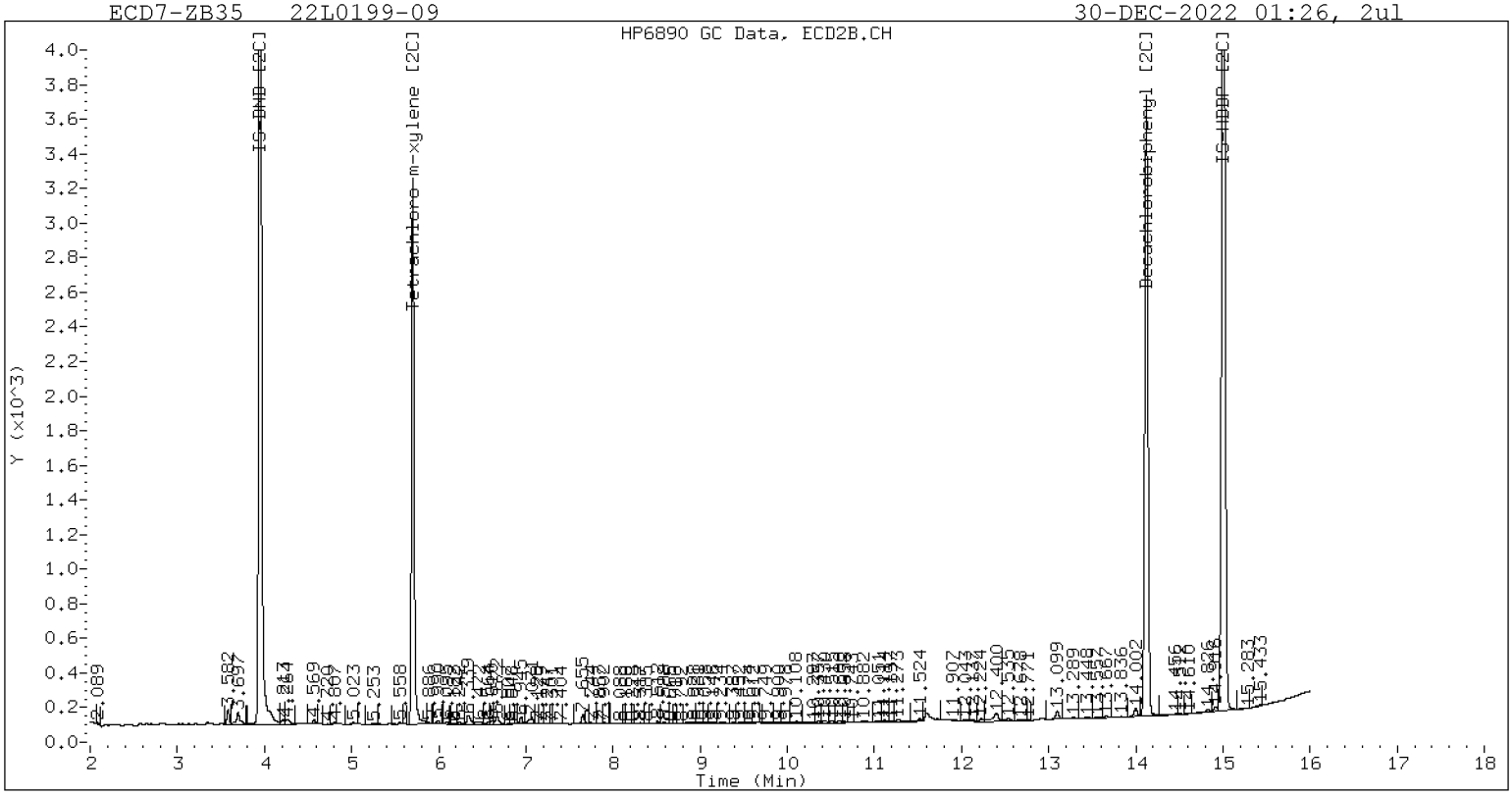
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-09 30-DEC-2022 01:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-09 30-DEC-2022 01:26, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC762J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-10 B	File ID:	12272258ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 12:42
% Solids:	62.55	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.16 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9302*	*8.42*	*106*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9302*	*6.00*	*75.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272258ECD7.D
Data file 2: /221227.b/221227.b/12272258ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-10
Client ID:
Injection Date: 28-DEC-2022 12:42
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	187119	5.703	-0.006	140880	30.3	36.4	18.5	Tetrachloro-m-xylene
13.895	-0.009	168705	14.124	-0.004	176286	42.5	40.3	5.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	436483	-2.5
Hexabromobiphenyl	798898	433355	-45.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	282269	13.3
Hexabromobiphenyl	362541	308250	-15.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 7569694 Col1 Total PCB = 1.8 ppm*

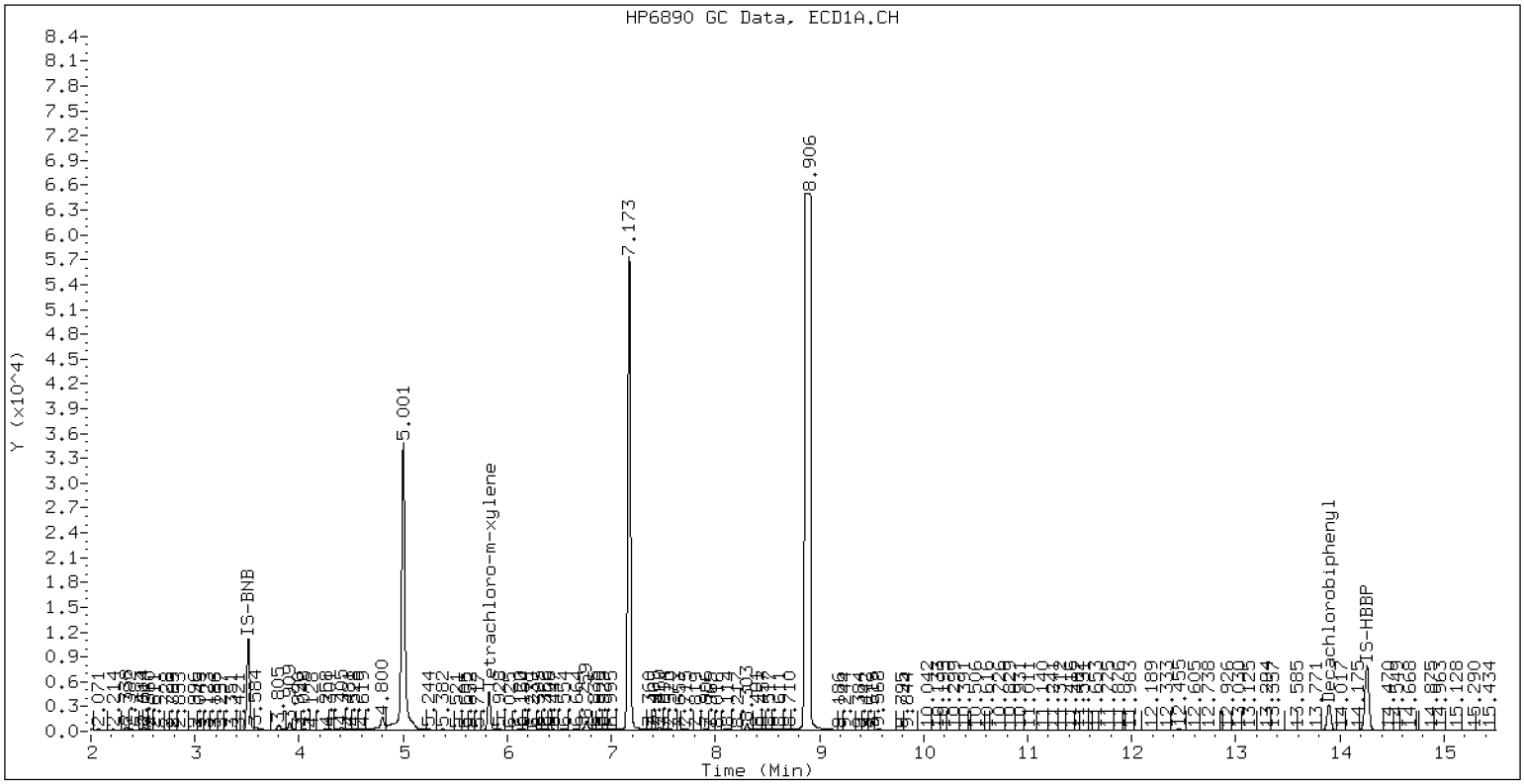
Total PCB Area Col2 (5.809 - 14.028) = 5258105 Col2 Total PCB = 2.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

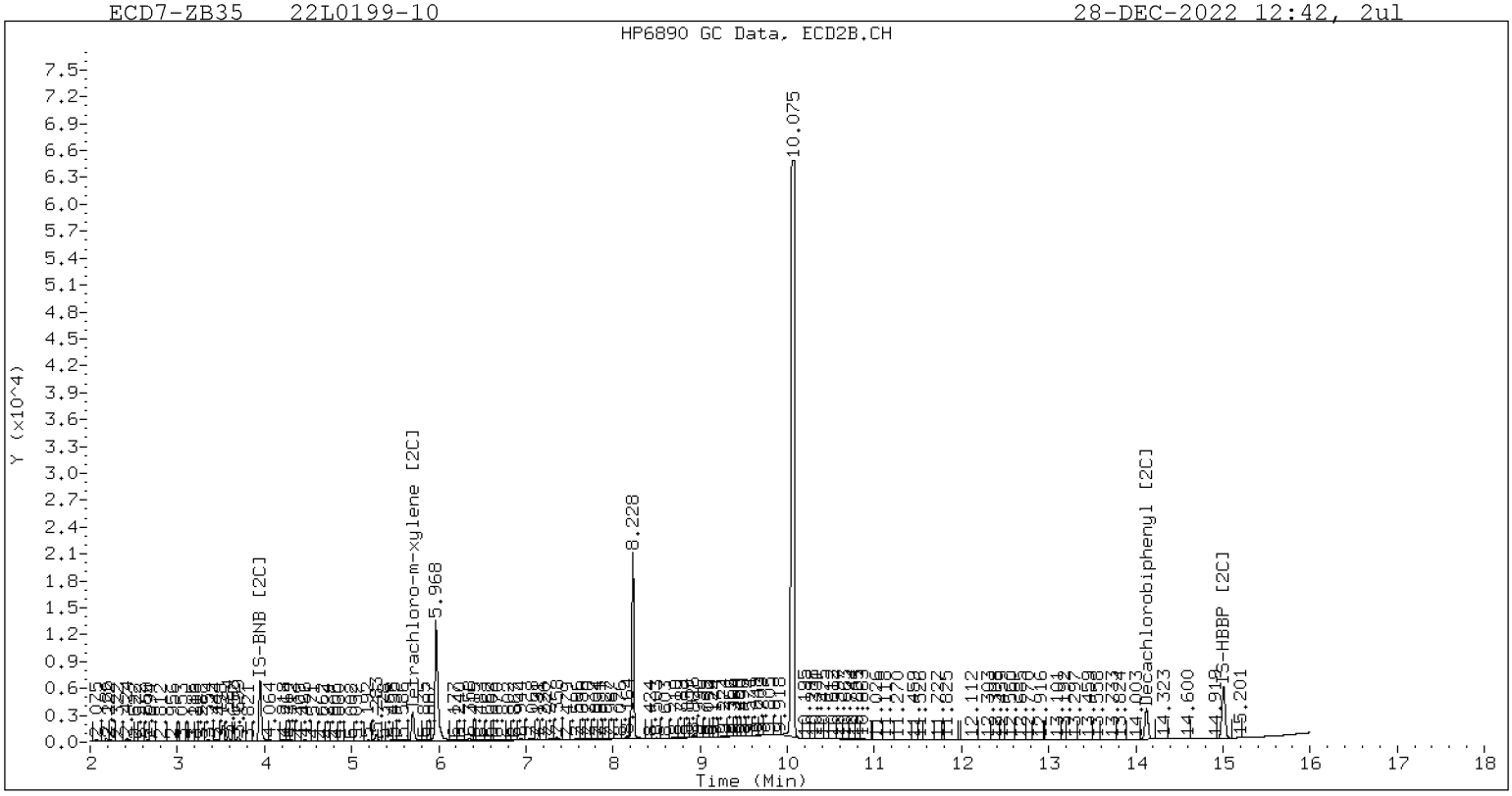
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-10 28-DEC-2022 12:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-10 28-DEC-2022 12:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-11 B	File ID:	12272261ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 13:45
% Solids:	88.94	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.18 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9292*	*9.35*	*118*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9292*	*6.94*	*87.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272261ECD7.D
Data file 2: /221227.b/221227.b/12272261ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-11
Client ID:
Injection Date: 28-DEC-2022 13:45
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	242942	5.706	-0.003	182634	35.0	40.3	14.2	Tetrachloro-m-xylene
13.899	-0.004	348056	14.126	-0.002	290475	47.2	47.0	0.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	489868	9.4
Hexabromobiphenyl	798898	804792	0.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330271	32.6
Hexabromobiphenyl	362541	435349	20.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 9261579 Col1 Total PCB = 2.0 ppm*

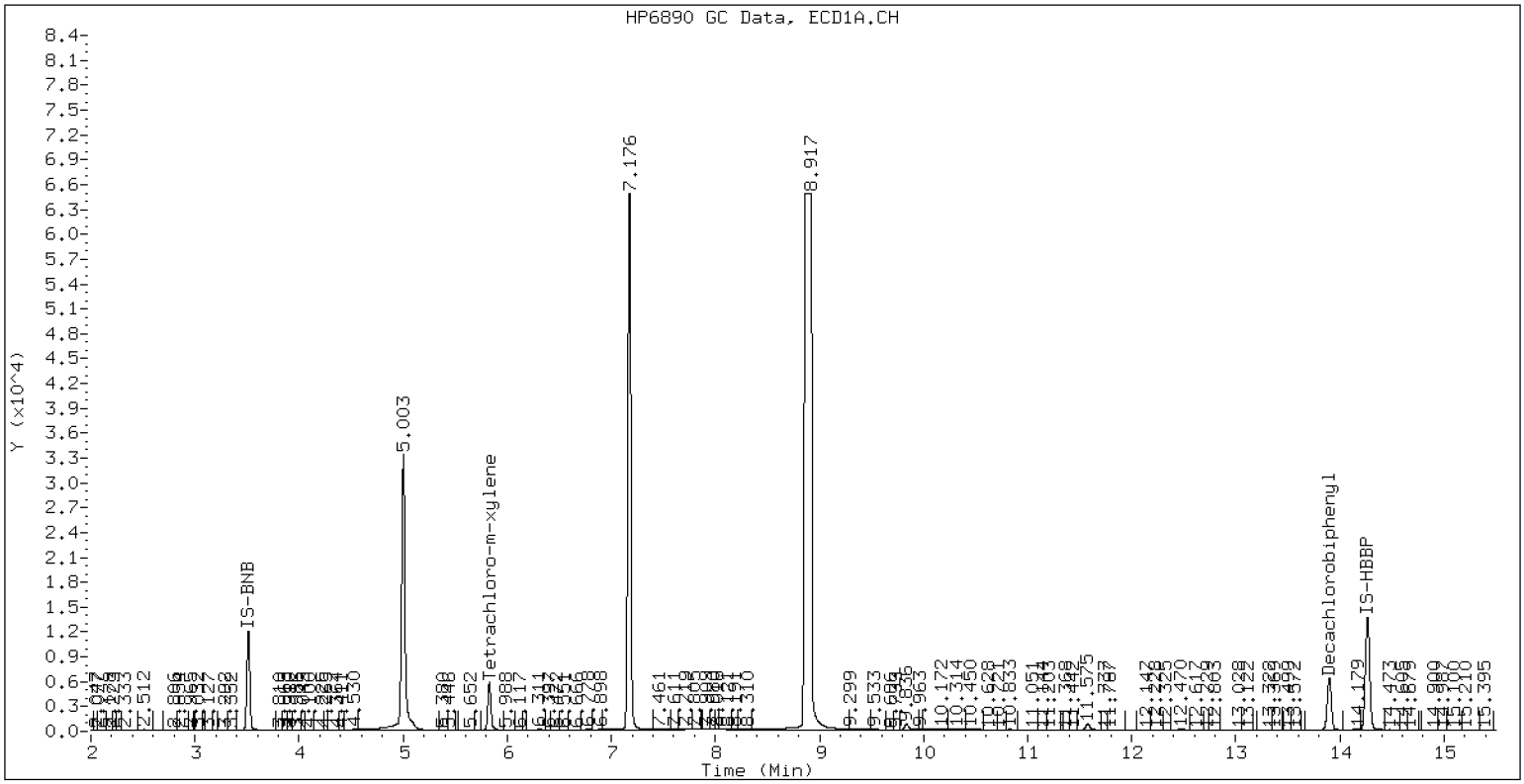
Total PCB Area Col2 (5.809 - 14.028) = 7017841 Col2 Total PCB = 2.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

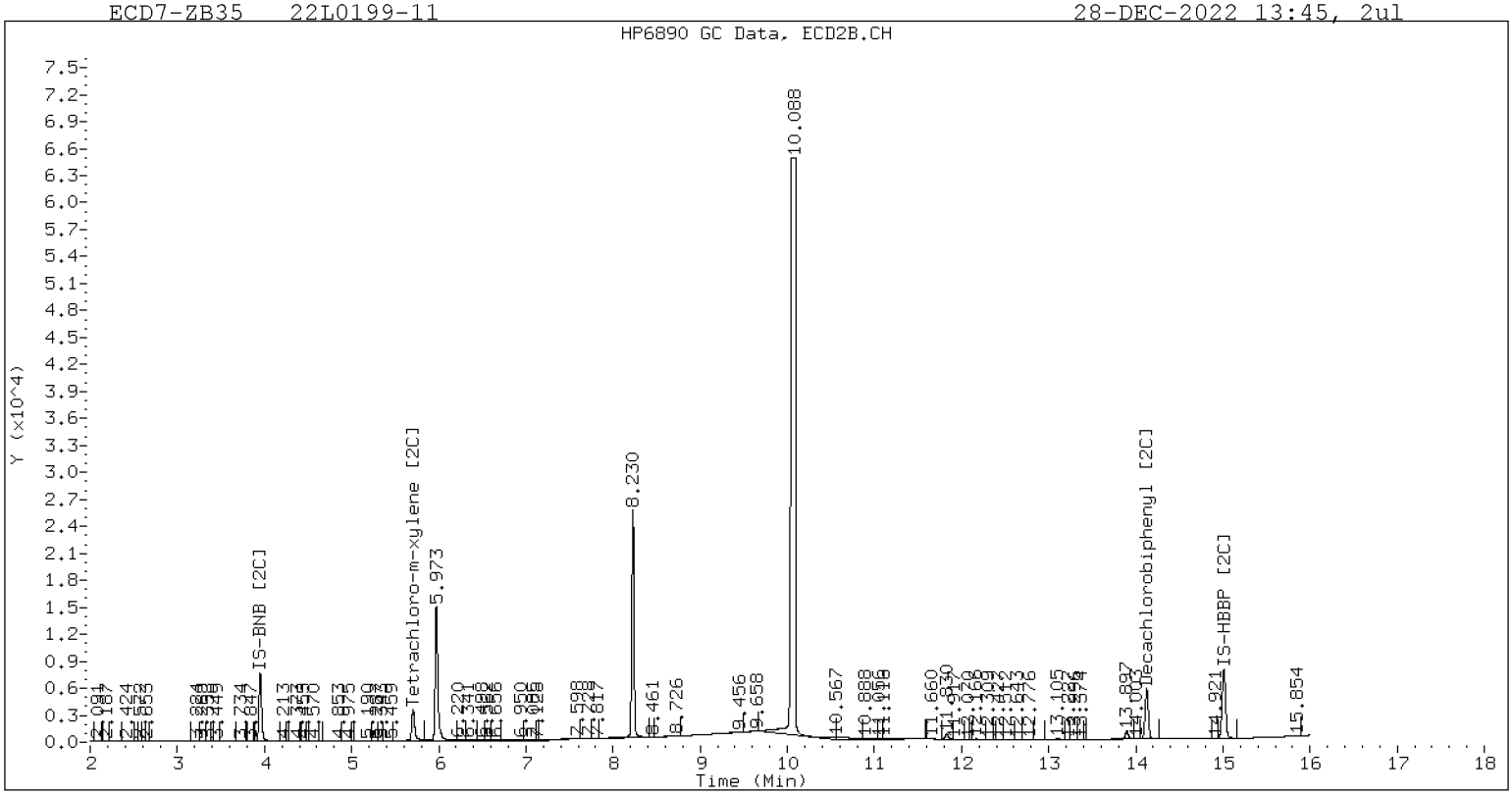
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-11 28-DEC-2022 13:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-11 28-DEC-2022 13:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-12 B	File ID:	12272262ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 14:06
% Solids:	90.53	Preparation:	EPA 3546 (Microwave)	Initial/Final:	13.9 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9468*	*8.86*	*111*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9468*	*6.36*	*80.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272262ECD7.D
Data file 2: /221227.b/221227.b/12272262ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-12
Client ID:
Injection Date: 28-DEC-2022 14:06
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	216885	5.706	-0.002	154030	32.0	35.2	9.7	Tetrachloro-m-xylene
13.899	-0.004	345568	14.126	-0.002	291748	44.6	46.0	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	478367	6.9
Hexabromobiphenyl	798898	845318	5.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	318868	28.0
Hexabromobiphenyl	362541	446992	23.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 827959 Col1 Total PCB = 0.2 ppm*

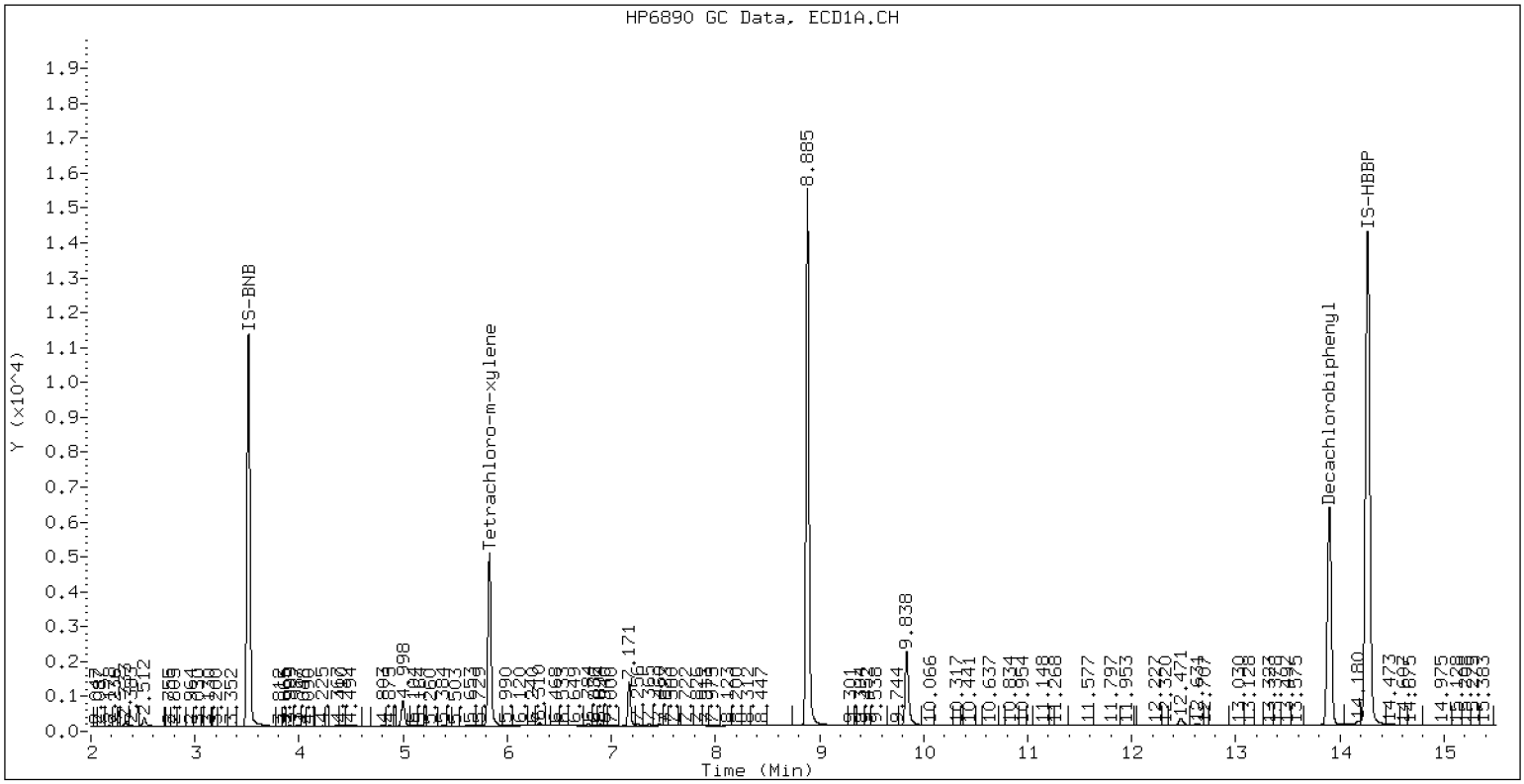
Total PCB Area Col2 (5.809 - 14.028) = 371133 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

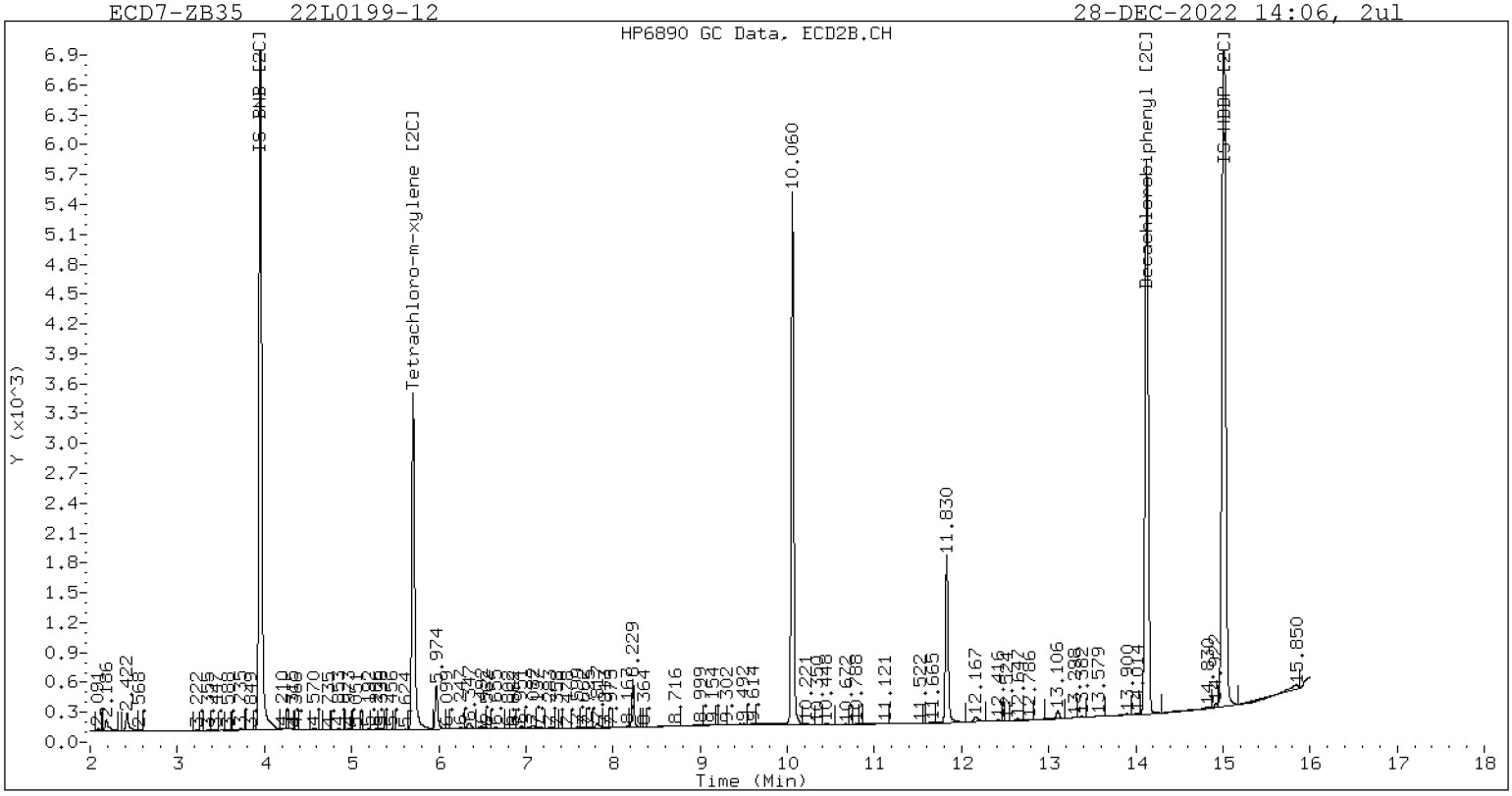
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-12 28-DEC-2022 14:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-12 28-DEC-2022 14:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-13 B	File ID:	12292249ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/30/22 01:47
% Solids:	86.26	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.65 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0370	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9132*	*16.3*	*206*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9132*	*6.42*	*81.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292249ECD7.D
Data file 2: /221229.b/221229.b/12292249ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-13
Client ID:
Injection Date: 30-DEC-2022 01:47
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	208931	5.707	-0.002	144549	32.5	34.1	5.0	Tetrachloro-m-xylene
13.898	-0.005	344994	14.125	-0.004	285757	82.6	84.4	2.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	454281	1.5
Hexabromobiphenyl	798898	455891	-42.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	309205	24.1
Hexabromobiphenyl	362541	238509	-34.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 139940 Col1 Total PCB = 0.0 ppm*

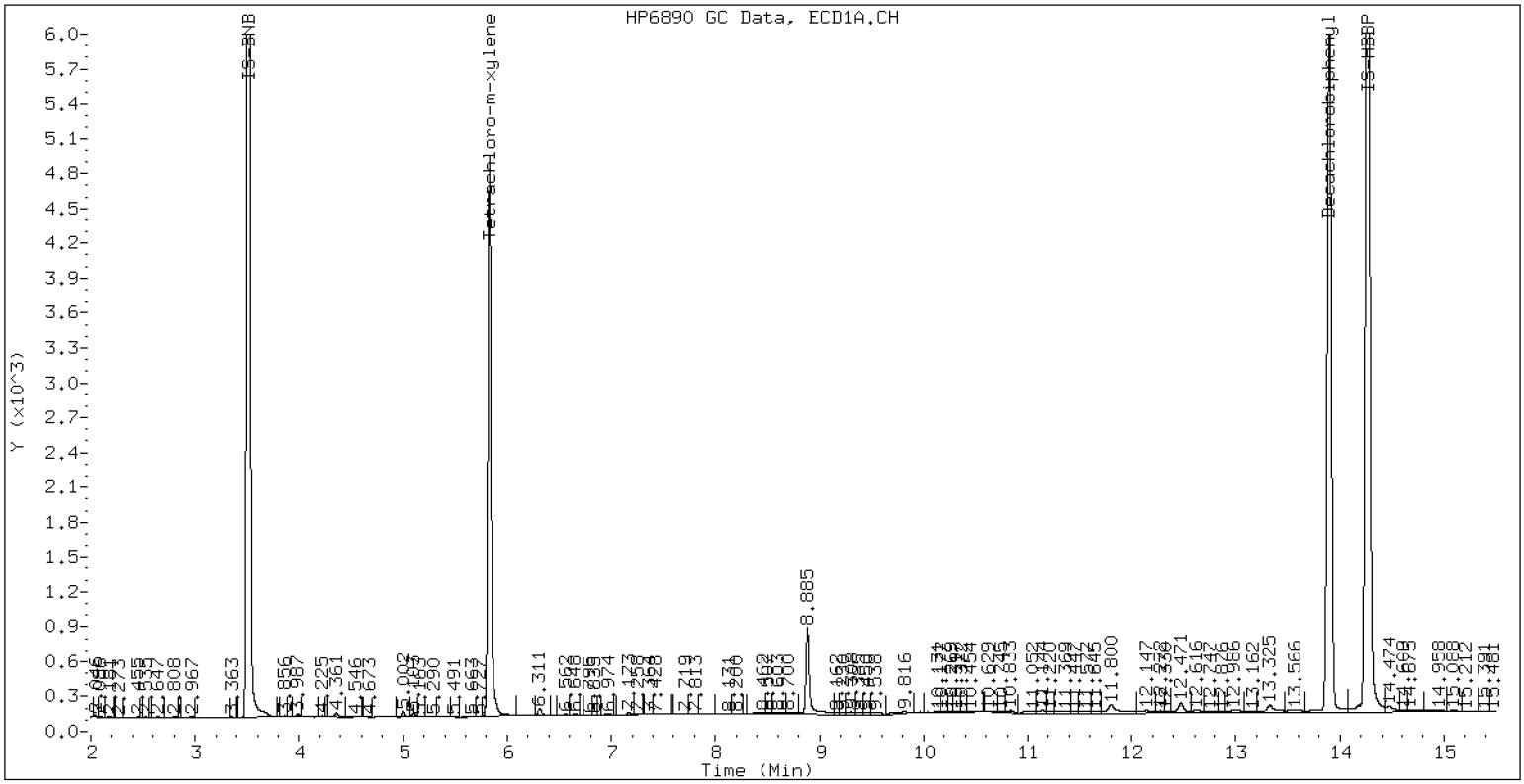
Total PCB Area Col2 (5.808 - 14.029) = 42520 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

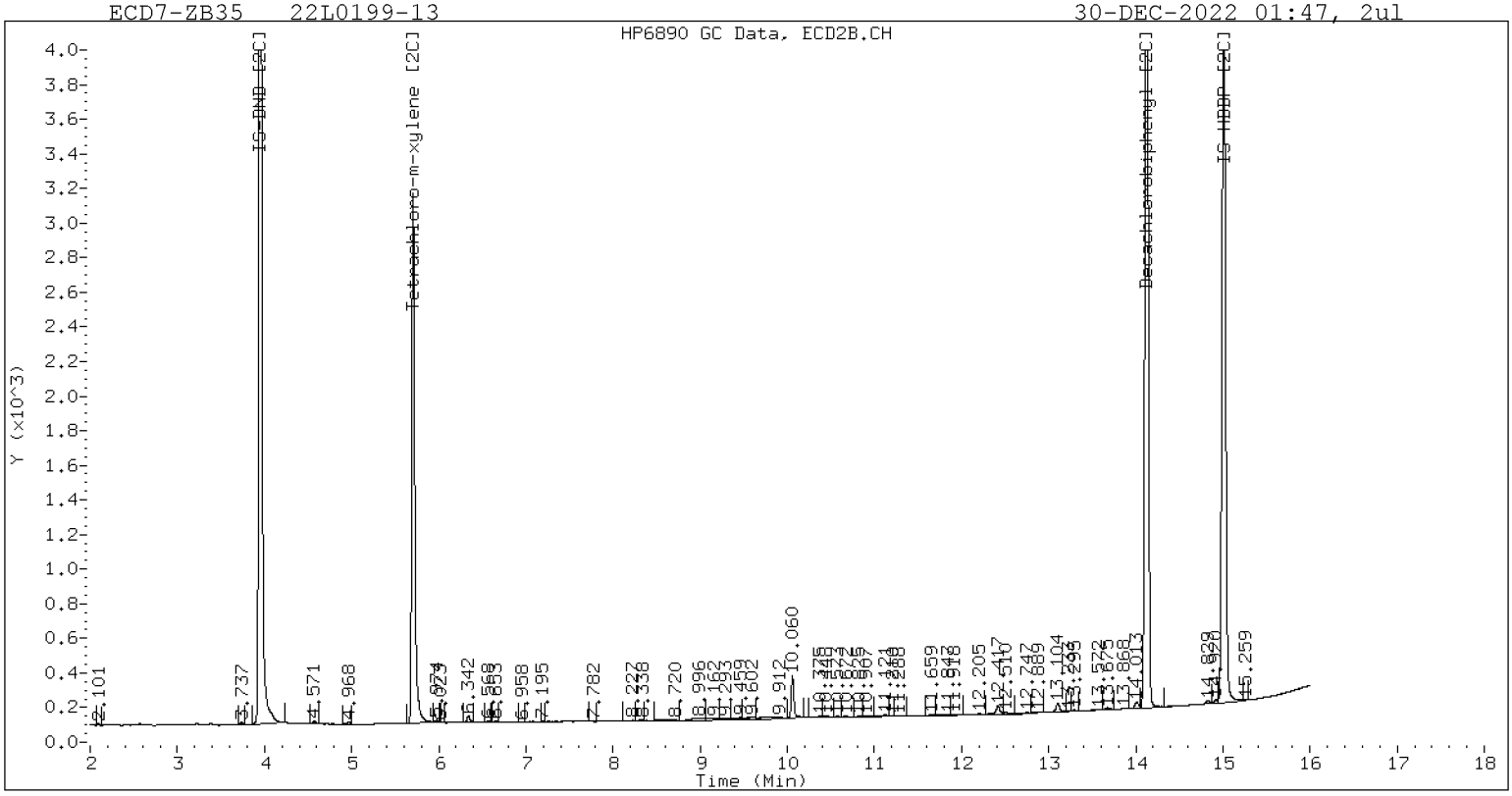
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-13 30-DEC-2022 01:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-13 30-DEC-2022 01:47, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-14 B	File ID:	12272264ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 14:49
% Solids:	87.23	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.4 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9611*	*9.13*	*115*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9611*	*6.87*	*86.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272264ECD7.D
Data file 2: /221227.b/221227.b/12272264ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-14
Client ID:
Injection Date: 28-DEC-2022 14:49
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	234511	5.706	-0.002	156623	34.5	35.7	3.3	Tetrachloro-m-xylene
13.899	-0.004	374137	14.126	-0.003	306521	45.9	48.8	6.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	479709	7.2
Hexabromobiphenyl	798898	890080	11.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	320370	28.6
Hexabromobiphenyl	362541	442339	22.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 3472017 Col1 Total PCB = 0.8 ppm*

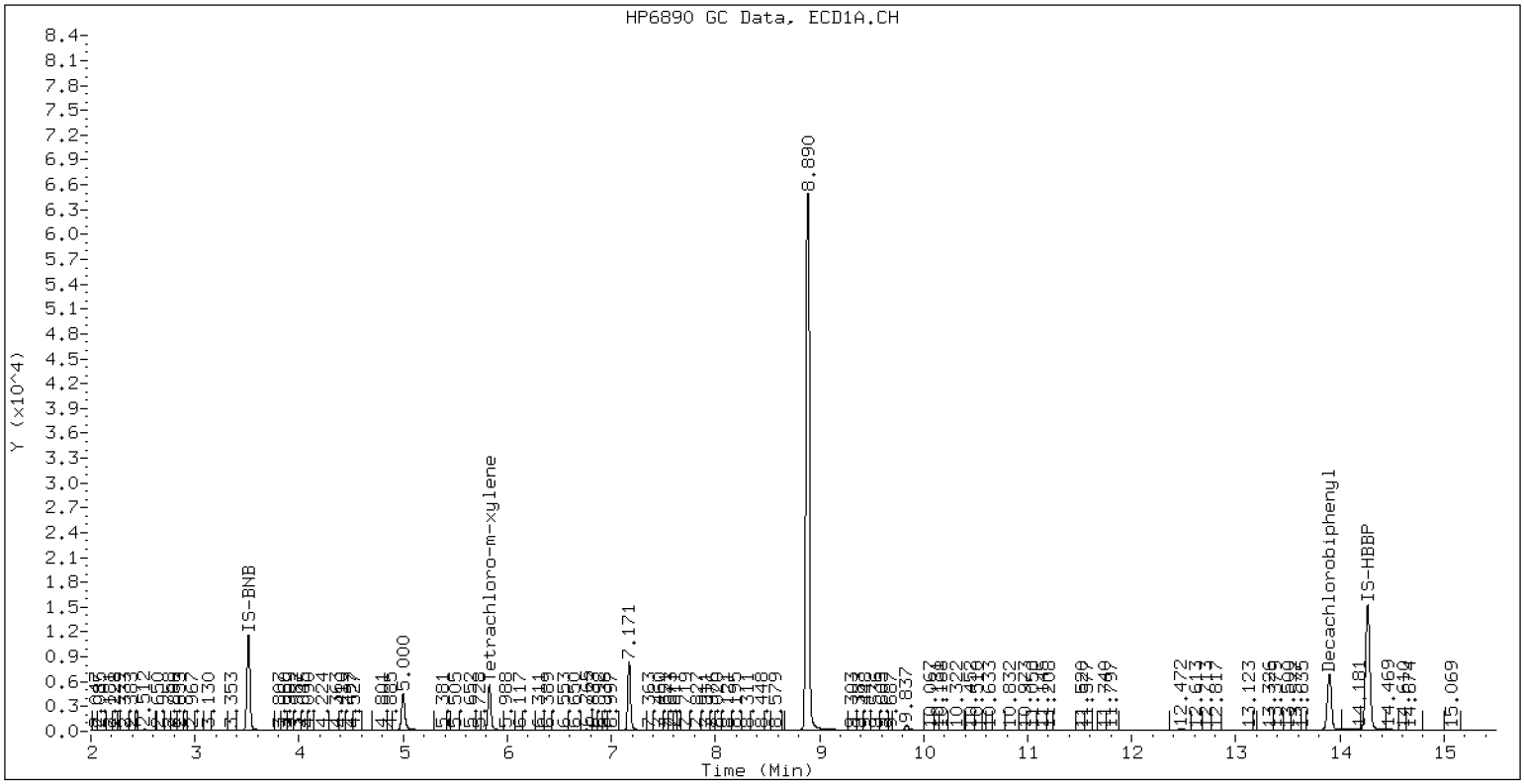
Total PCB Area Col2 (5.809 - 14.028) = 1341641 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

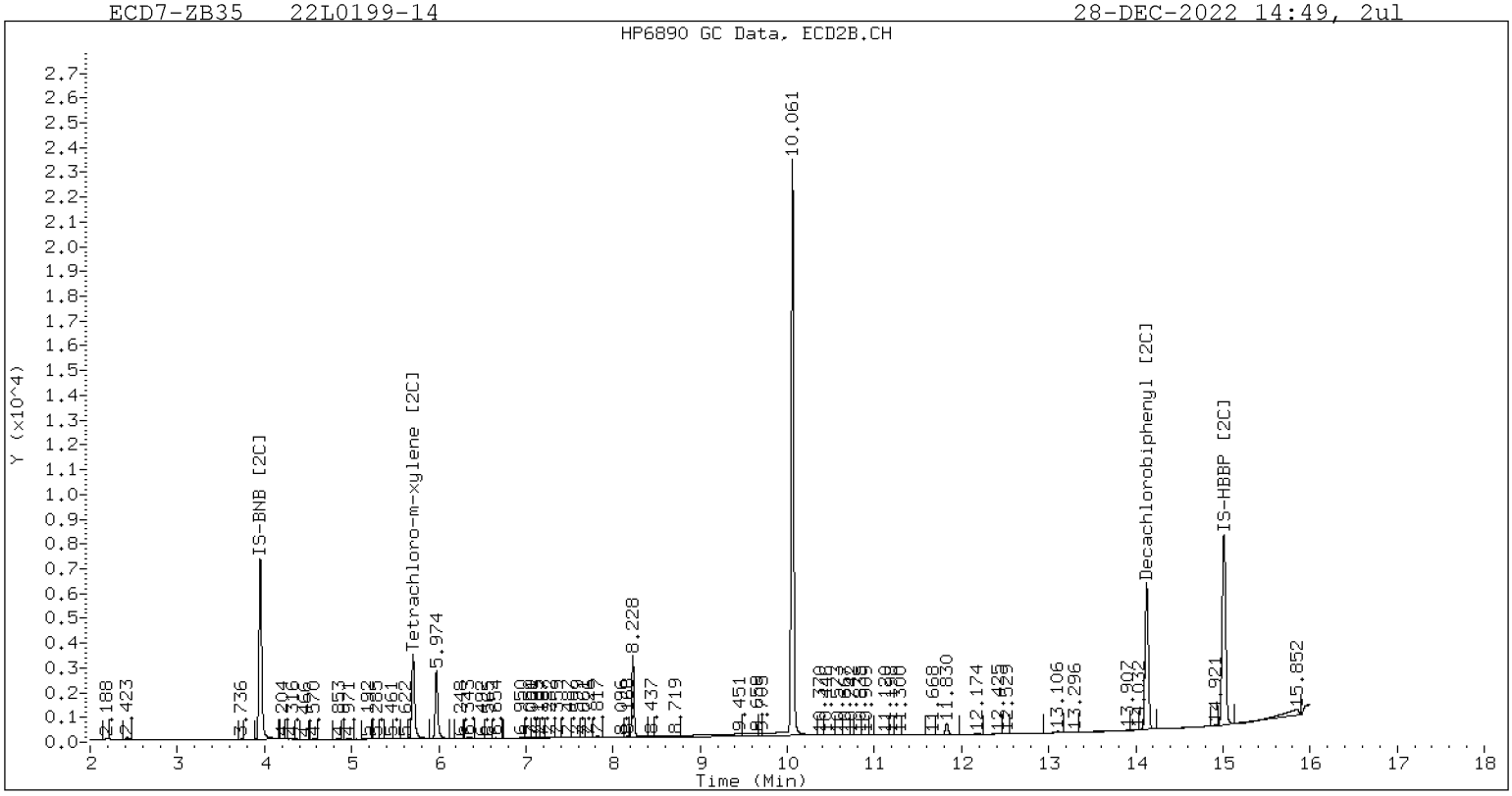
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-14 28-DEC-2022 14:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-14 28-DEC-2022 14:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789I-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-15 B	File ID:	12292250ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/30/22 02:08
% Solids:	86.57	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.5 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0370	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9664*	*11.5*	*145*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9664*	*7.32*	*91.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292250ECD7.D
Data file 2: /221229.b/221229.b/12292250ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-15
Client ID:
Injection Date: 30-DEC-2022 02:08
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	250597	5.707	-0.001	165448	36.7	36.9	0.4	Tetrachloro-m-xylene
13.900	-0.003	462140	14.126	-0.003	347526	58.0	59.2	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	481277	7.5
Hexabromobiphenyl	798898	869392	8.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	327138	31.3
Hexabromobiphenyl	362541	413279	14.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 428581 Col1 Total PCB = 0.1 ppm*

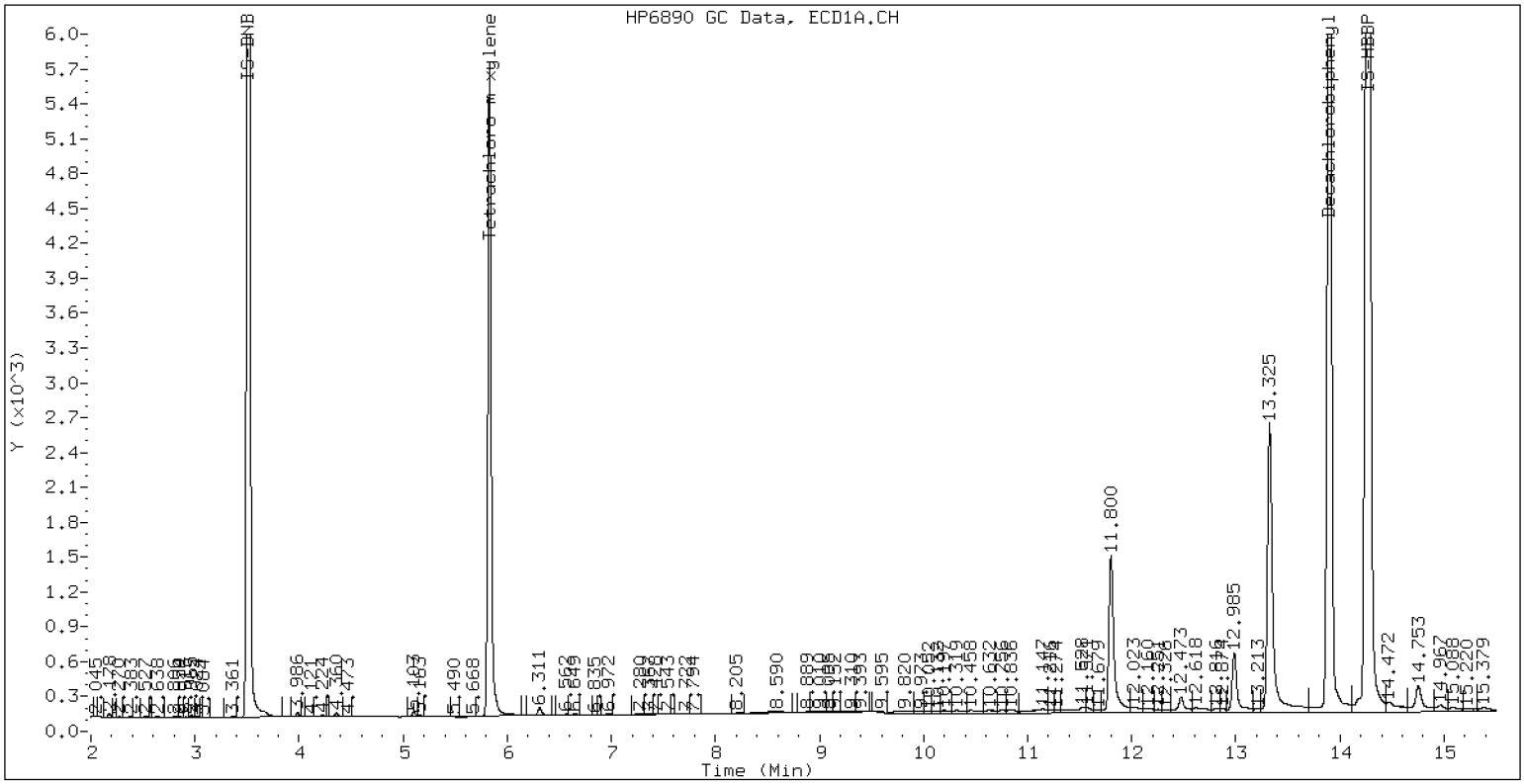
Total PCB Area Col2 (5.808 - 14.029) = 90305 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

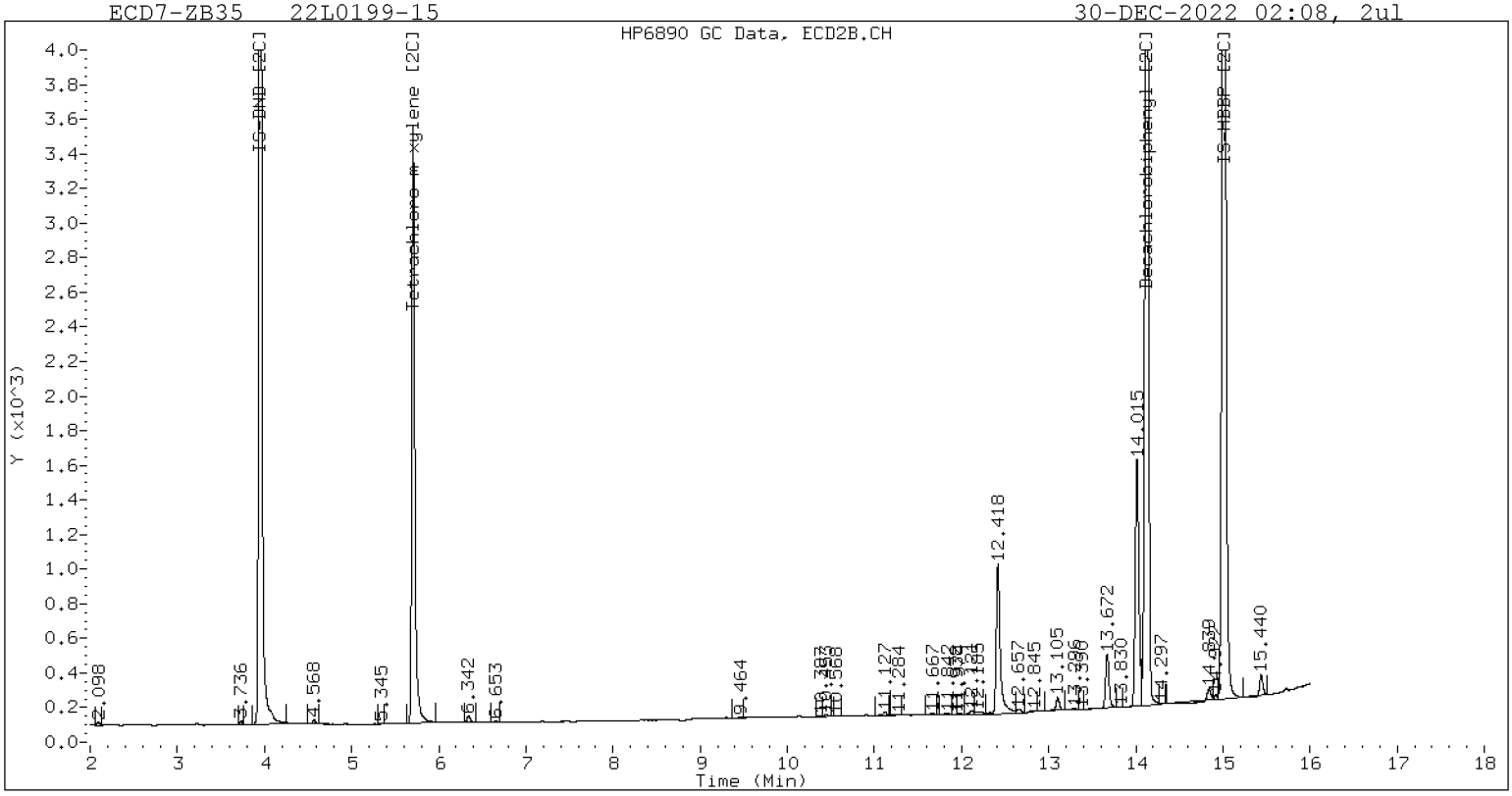
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-15 30-DEC-2022 02:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-15 30-DEC-2022 02:08, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-16 B	File ID:	12272266ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 15:31
% Solids:	85.45	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.75 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9341*	*9.23*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9341*	*6.47*	*81.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272266ECD7.D
Data file 2: /221227.b/221227.b/12272266ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-16
Client ID:
Injection Date: 28-DEC-2022 15:31
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	217708	5.705	-0.004	154857	32.6	36.4	10.8	Tetrachloro-m-xylene
13.902	-0.002	386196	14.128	0.000	307718	46.5	48.6	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470702	5.2
Hexabromobiphenyl	798898	905146	13.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	310727	24.7
Hexabromobiphenyl	362541	446324	23.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 314246 Col1 Total PCB = 0.1 ppm*

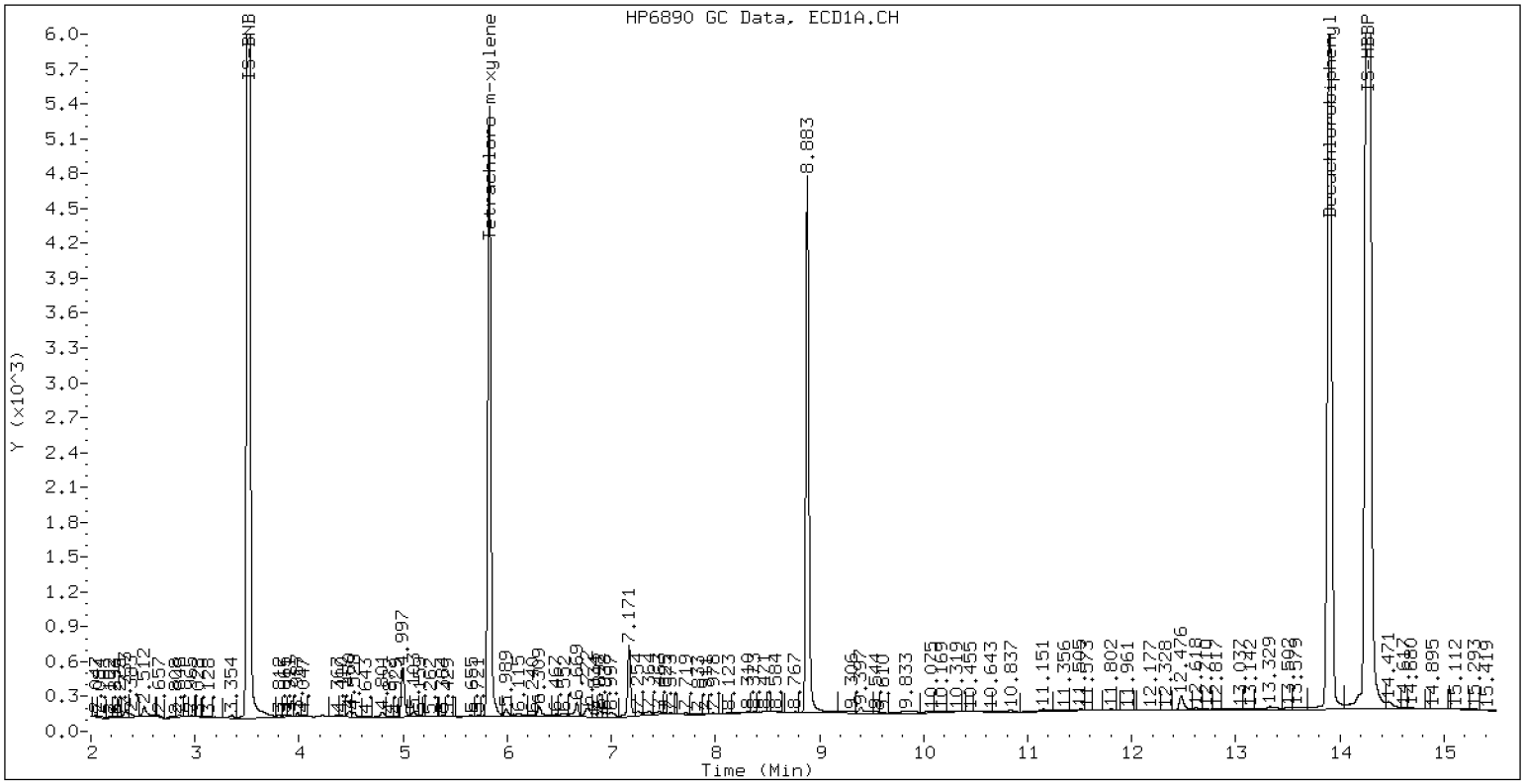
Total PCB Area Col2 (5.809 - 14.028) = 148511 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

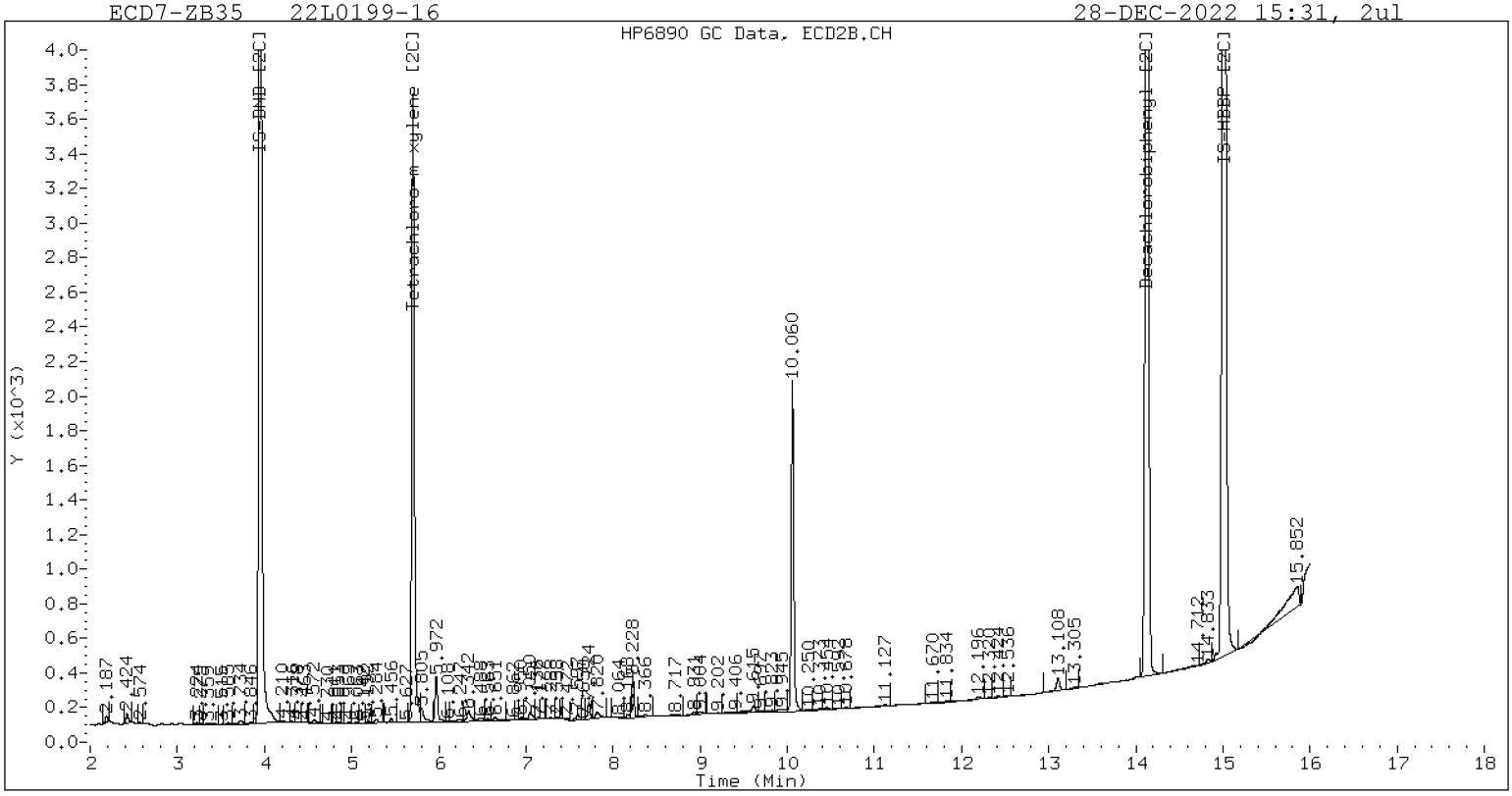
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-16 28-DEC-2022 15:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-16 28-DEC-2022 15:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789K

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-17 B	File ID:	12272267ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 15:52
% Solids:	87.42	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.37 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9604*	*9.21*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9604*	*6.74*	*84.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272267ECD7.D
Data file 2: /221227.b/221227.b/12272267ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-17
Client ID:
Injection Date: 28-DEC-2022 15:52
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	223050	5.706	-0.002	154282	33.9	36.5	7.6	Tetrachloro-m-xylene
13.902	-0.002	395731	14.129	0.000	309089	46.3	48.2	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	464959	3.9
Hexabromobiphenyl	798898	932701	16.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	308103	23.7
Hexabromobiphenyl	362541	451604	24.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 486242 Col1 Total PCB = 0.1 ppm*

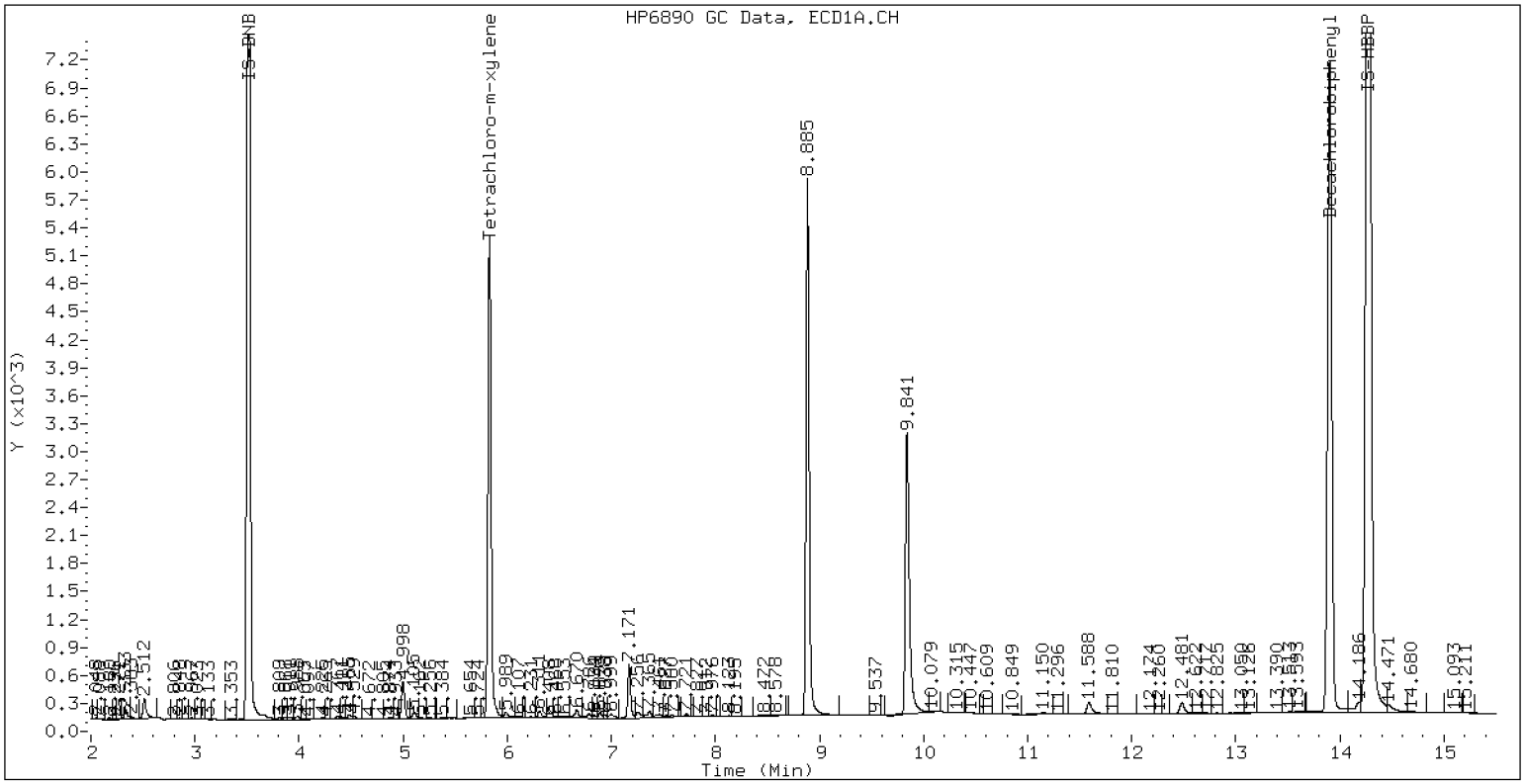
Total PCB Area Col2 (5.809 - 14.028) = 280446 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

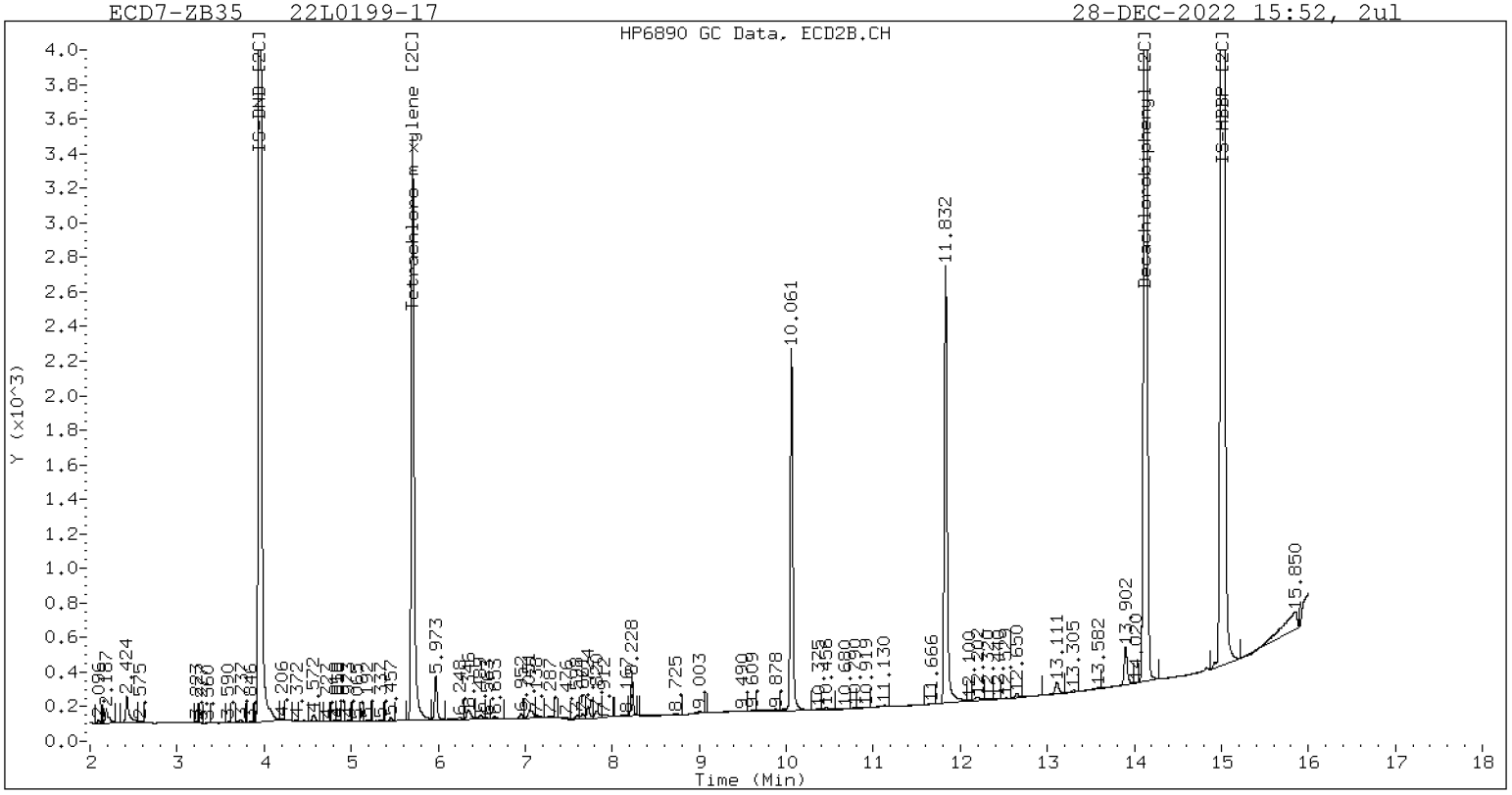
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-17 28-DEC-2022 15:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-17 28-DEC-2022 15:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT789L

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-18 B	File ID:	12272268ECD7.D
Sampled:	12/08/22 08:17	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 16:13
% Solids:	80.82	Preparation:	EPA 3546 (Microwave)	Initial/Final:	15.53 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9673*	*8.96*	*112*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9673*	*6.54*	*82.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272268ECD7.D
Data file 2: /221227.b/221227.b/12272268ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-18
Client ID:
Injection Date: 28-DEC-2022 16:13
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	234694	5.706	-0.002	162106	32.8	35.0	6.3	Tetrachloro-m-xylene
13.902	-0.002	436716	14.129	0.000	335033	45.0	47.6	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	504407	12.7
Hexabromobiphenyl	798898	1058965	32.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	338254	35.8
Hexabromobiphenyl	362541	495854	36.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 84197 Col1 Total PCB = 0.0 ppm*

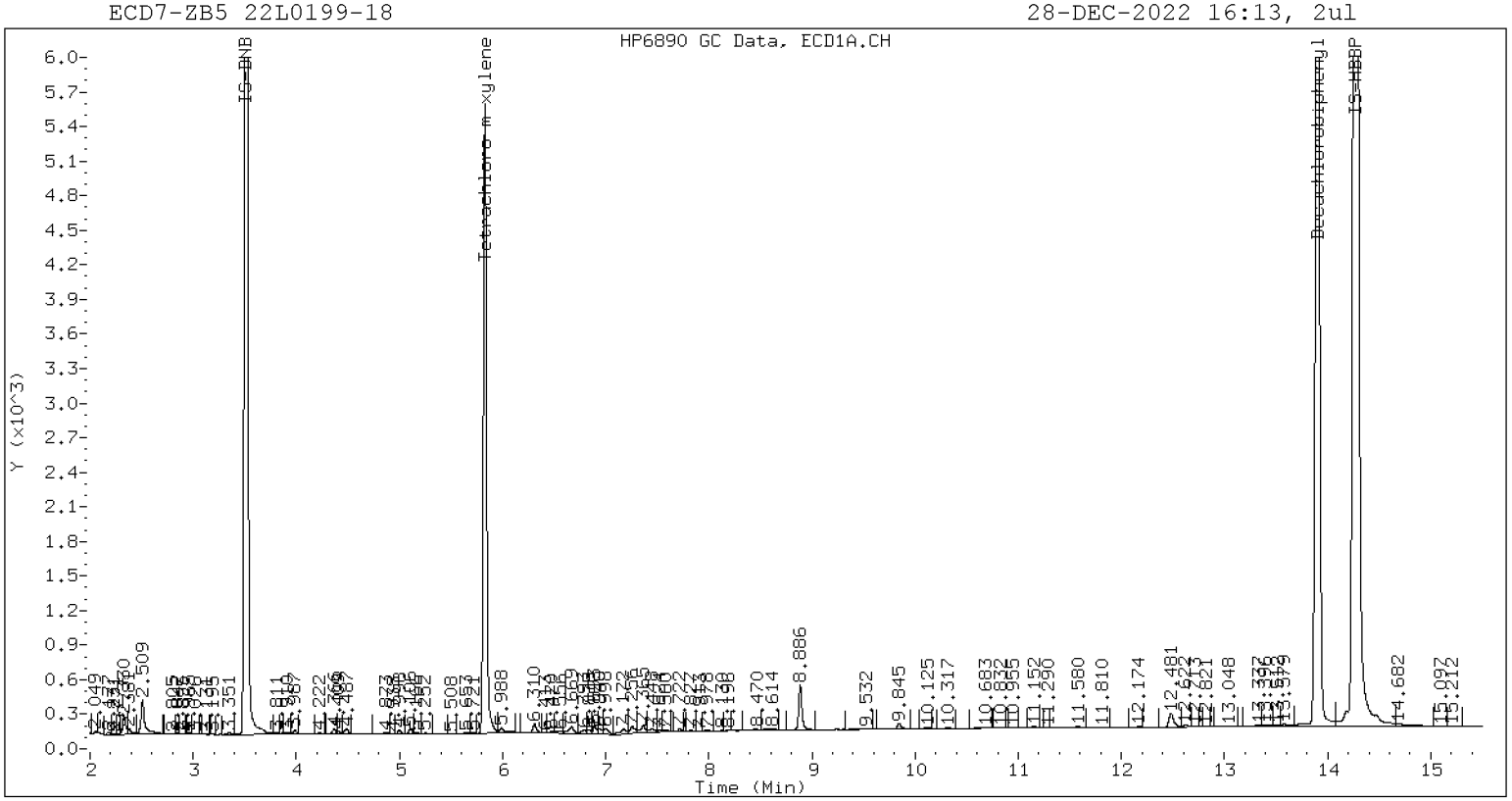
Total PCB Area Col2 (5.809 - 14.028) = 50876 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

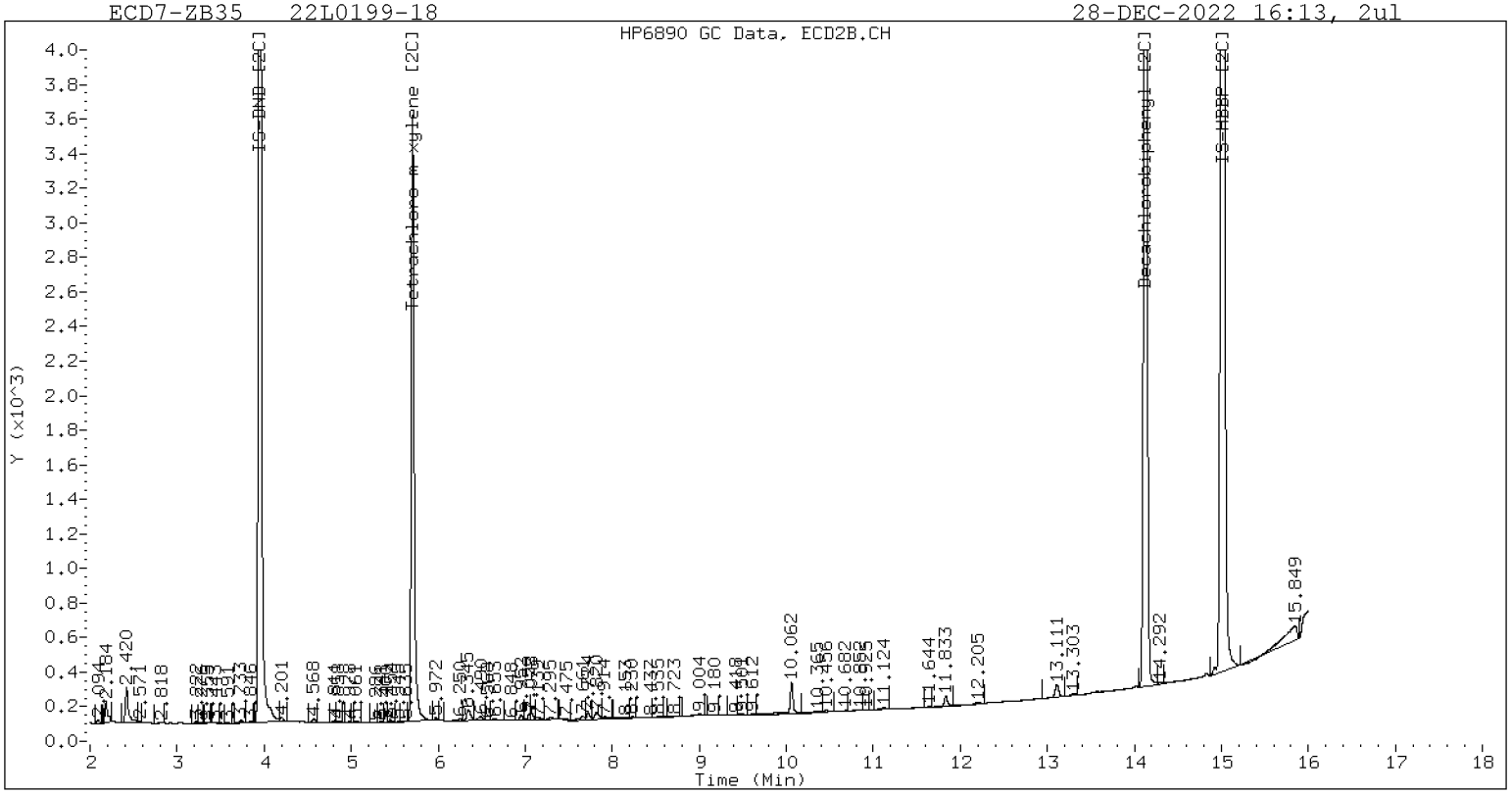
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-18 28-DEC-2022 16:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-18 28-DEC-2022 16:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT790I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-19 B	File ID:	12272269ECD7.D
Sampled:	12/08/22 09:20	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 16:34
% Solids:	86.51	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.61 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9119*	*9.20*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9119*	*7.27*	*91.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272269ECD7.D
Data file 2: /221227.b/221227.b/12272269ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-19
Client ID:
Injection Date: 28-DEC-2022 16:34
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	242581	5.708	-0.001	159645	36.8	36.8	0.0	Tetrachloro-m-xylene
13.903	-0.001	427704	14.129	0.001	333948	46.5	49.7	6.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	465429	4.0
Hexabromobiphenyl	798898	1003401	25.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	316574	27.1
Hexabromobiphenyl	362541	473552	30.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 396781 Col1 Total PCB = 0.1 ppm*

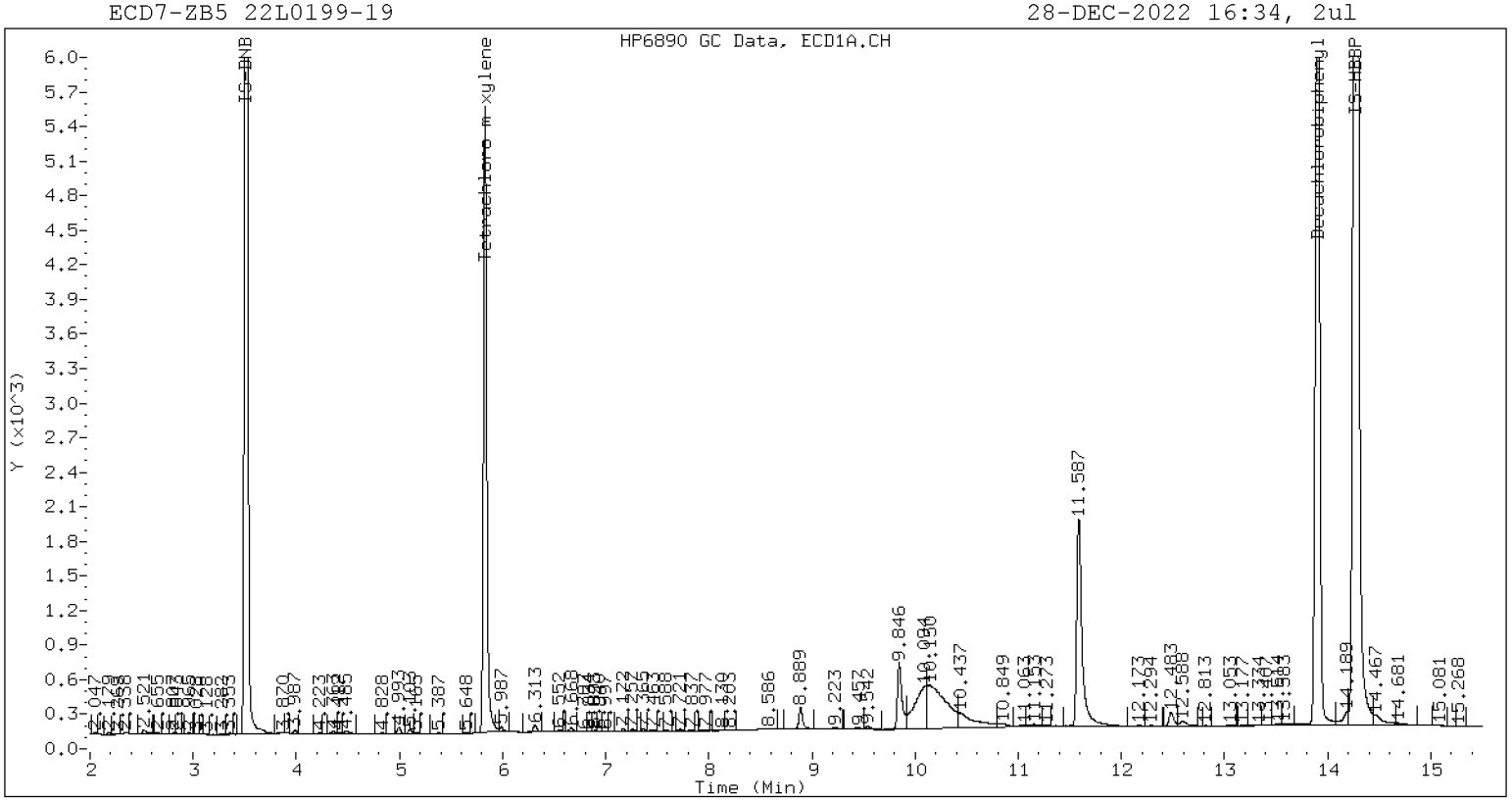
Total PCB Area Col2 (5.809 - 14.028) = 251898 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

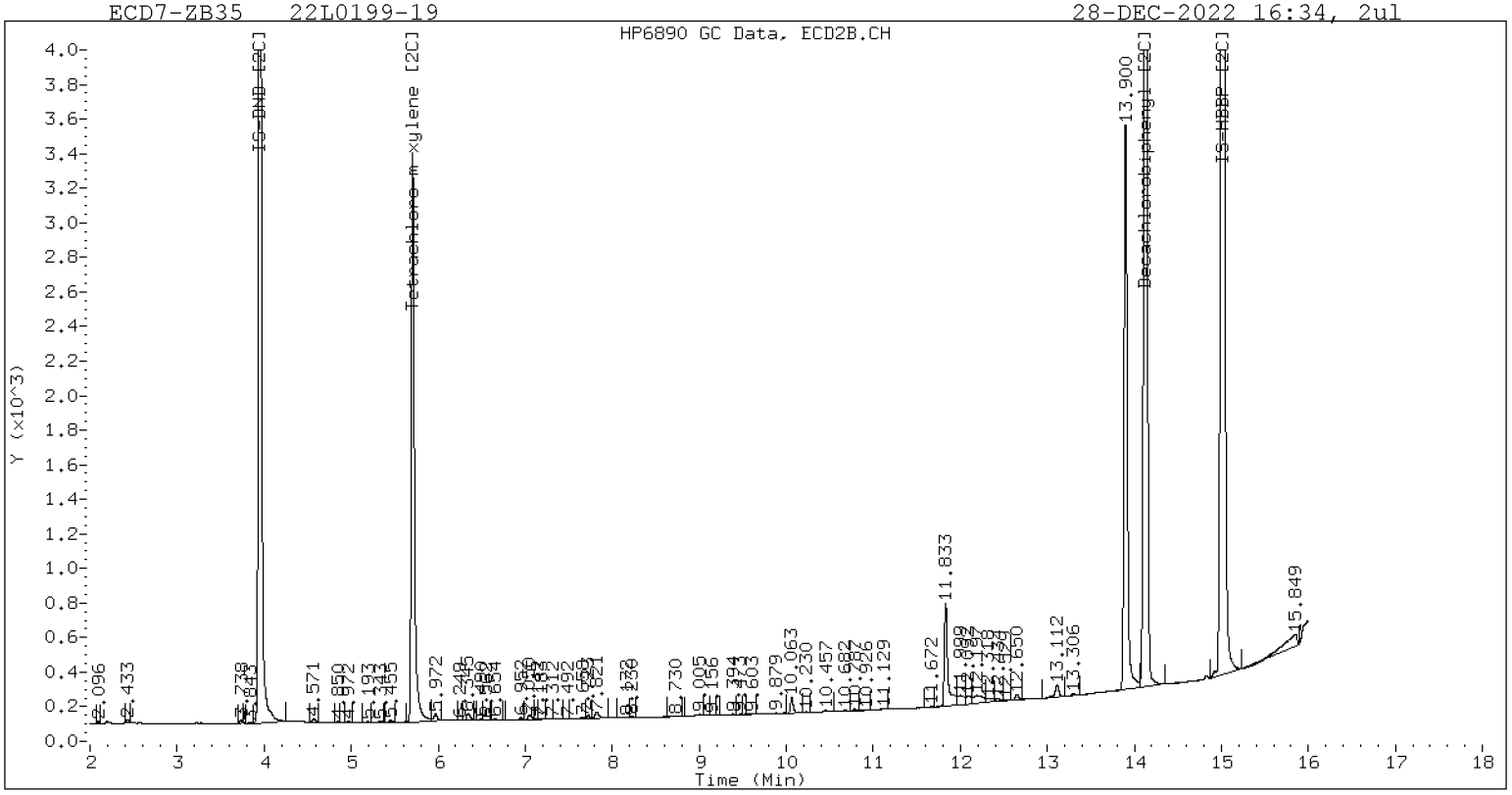
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-19 28-DEC-2022 16:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-19 28-DEC-2022 16:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT790J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-20 B	File ID:	12272270ECD7.D
Sampled:	12/08/22 09:20	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 16:55
% Solids:	83.17	Preparation:	EPA 3546 (Microwave)	Initial/Final:	15.18 g Wet / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.5	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.5	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.5	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.5	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.5	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.5	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9207*	*9.11*	*115*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9207*	*7.11*	*89.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272270ECD7.D
Data file 2: /221227.b/221227.b/12272270ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-20
Client ID:
Injection Date: 28-DEC-2022 16:55
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	238892	5.708	-0.001	155645	35.9	35.9	0.1	Tetrachloro-m-xylene
13.902	-0.002	428389	14.129	0.001	331028	46.0	49.4	7.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	469650	4.9
Hexabromobiphenyl	798898	1015444	27.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	316142	26.9
Hexabromobiphenyl	362541	472004	30.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 271581 Col1 Total PCB = 0.1 ppm*

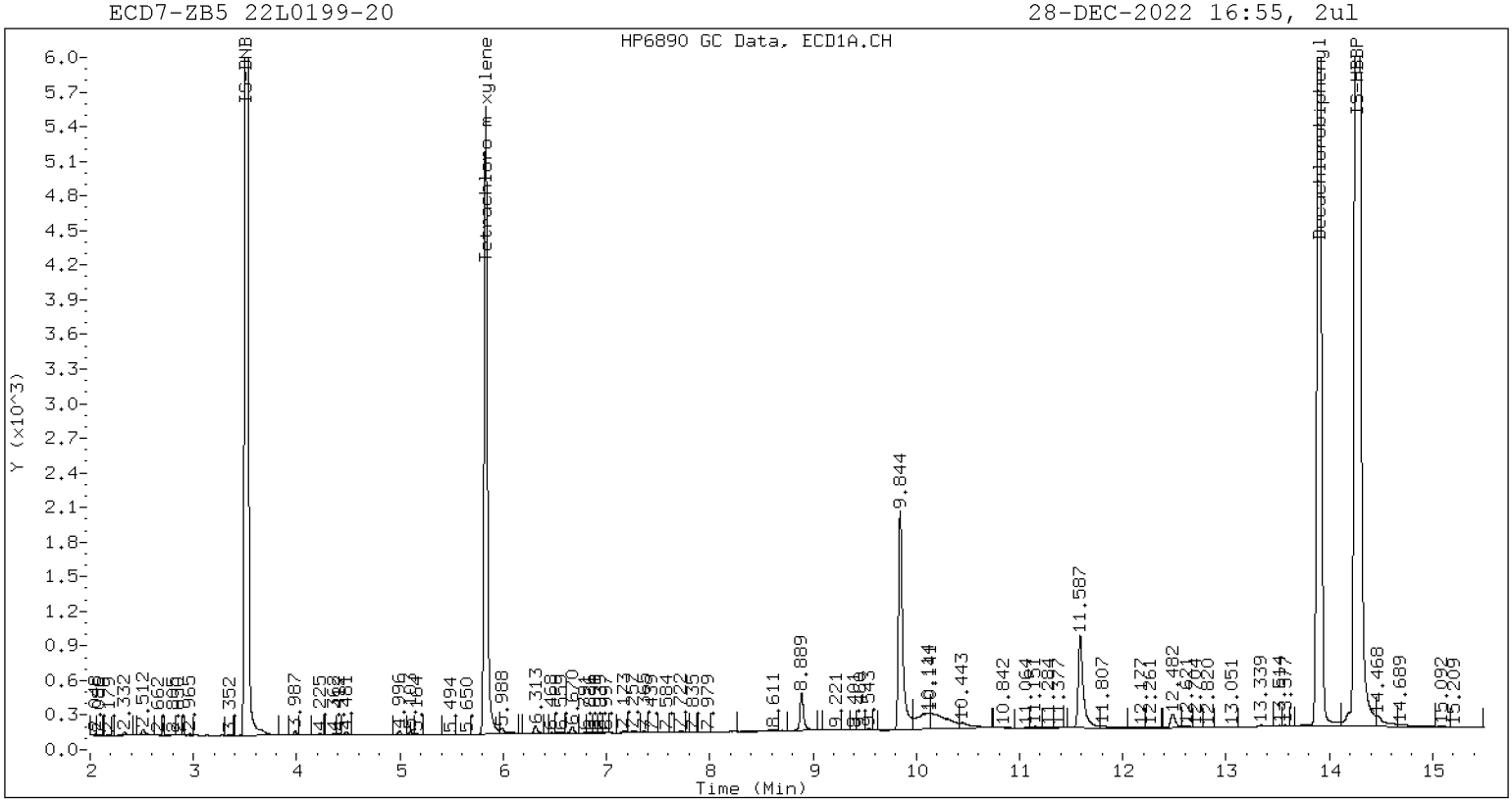
Total PCB Area Col2 (5.809 - 14.028) = 180958 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

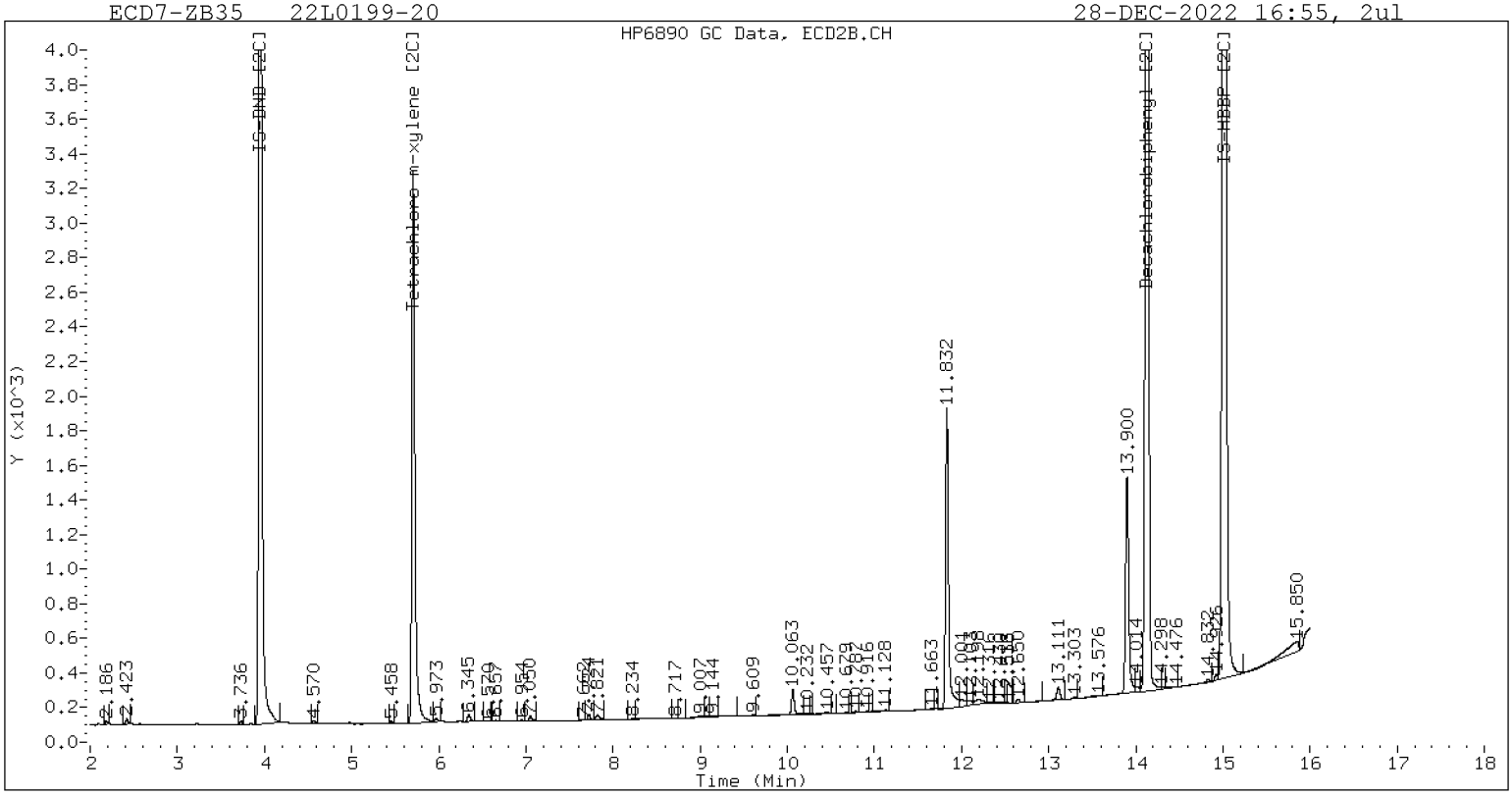
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-20 28-DEC-2022 16:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-20 28-DEC-2022 16:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT790K

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-21 B	File ID:	12302216ECD7.D
Sampled:	12/08/22 09:20	Prepared:	12/19/22 12:08	Analyzed:	12/30/22 16:36
% Solids:	89.49	Preparation:	EPA 3546 (Microwave)	Initial/Final:	13.98 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0035	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9932*	*8.70*	*109*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9932*	*7.07*	*88.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302216ECD7.D
Data file 2: /221230.b/221230.b/12302216ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-21
Client ID:
Injection Date: 30-DEC-2022 16:36
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.003	264544	5.706	-0.003	170133	35.4	37.2	5.0	Tetrachloro-m-xylene
13.901	-0.001	501692	14.128	-0.001	373380	43.5	44.8	2.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	527291	17.8
Hexabromobiphenyl	798898	1257785	57.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	333477	33.9
Hexabromobiphenyl	362541	587432	62.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.802) = 287146 Col1 Total PCB = 0.1 ppm*

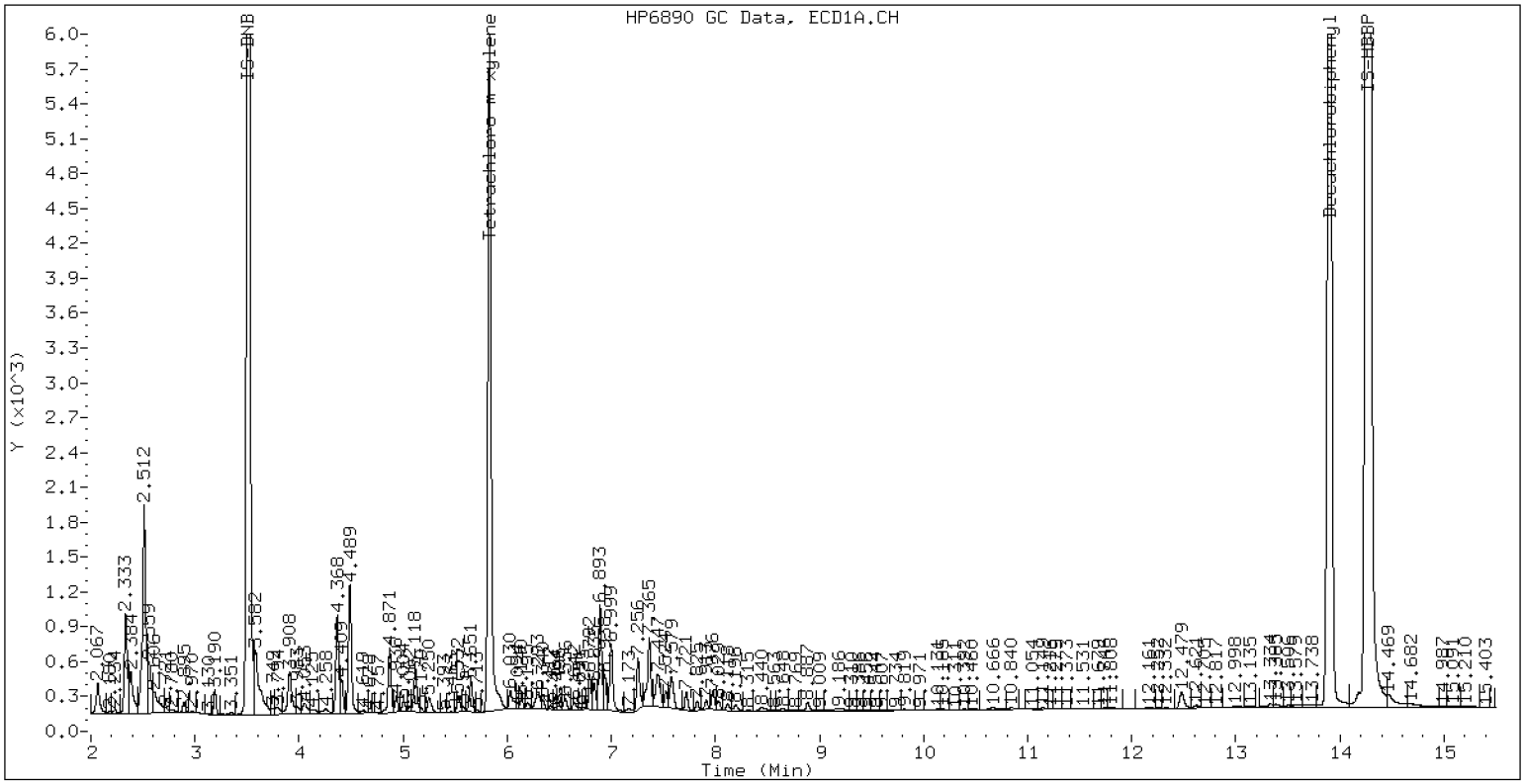
Total PCB Area Col2 (5.810 - 14.028) = 191053 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

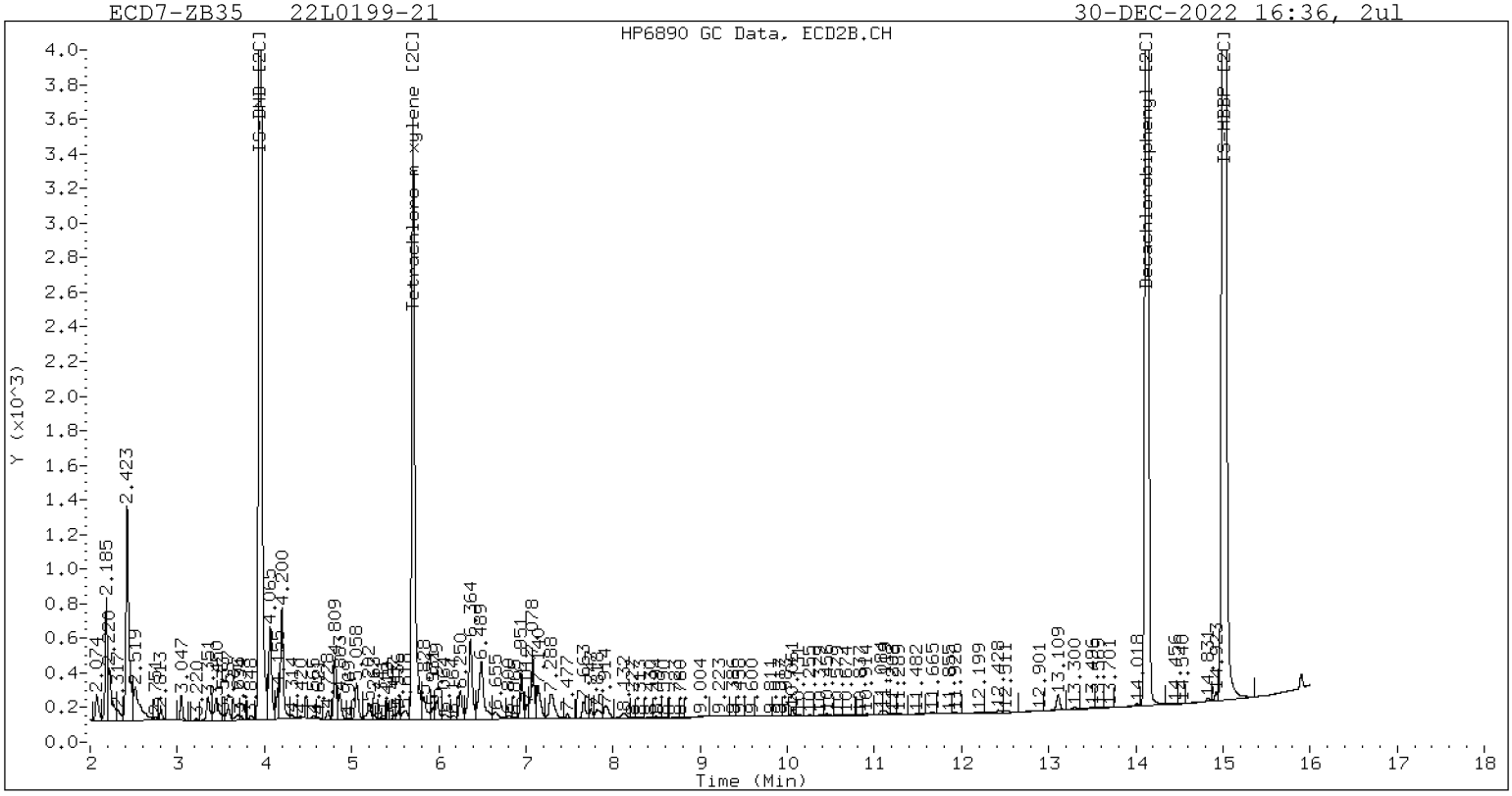
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-21 30-DEC-2022 16:36, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-21 30-DEC-2022 16:36, 2ul

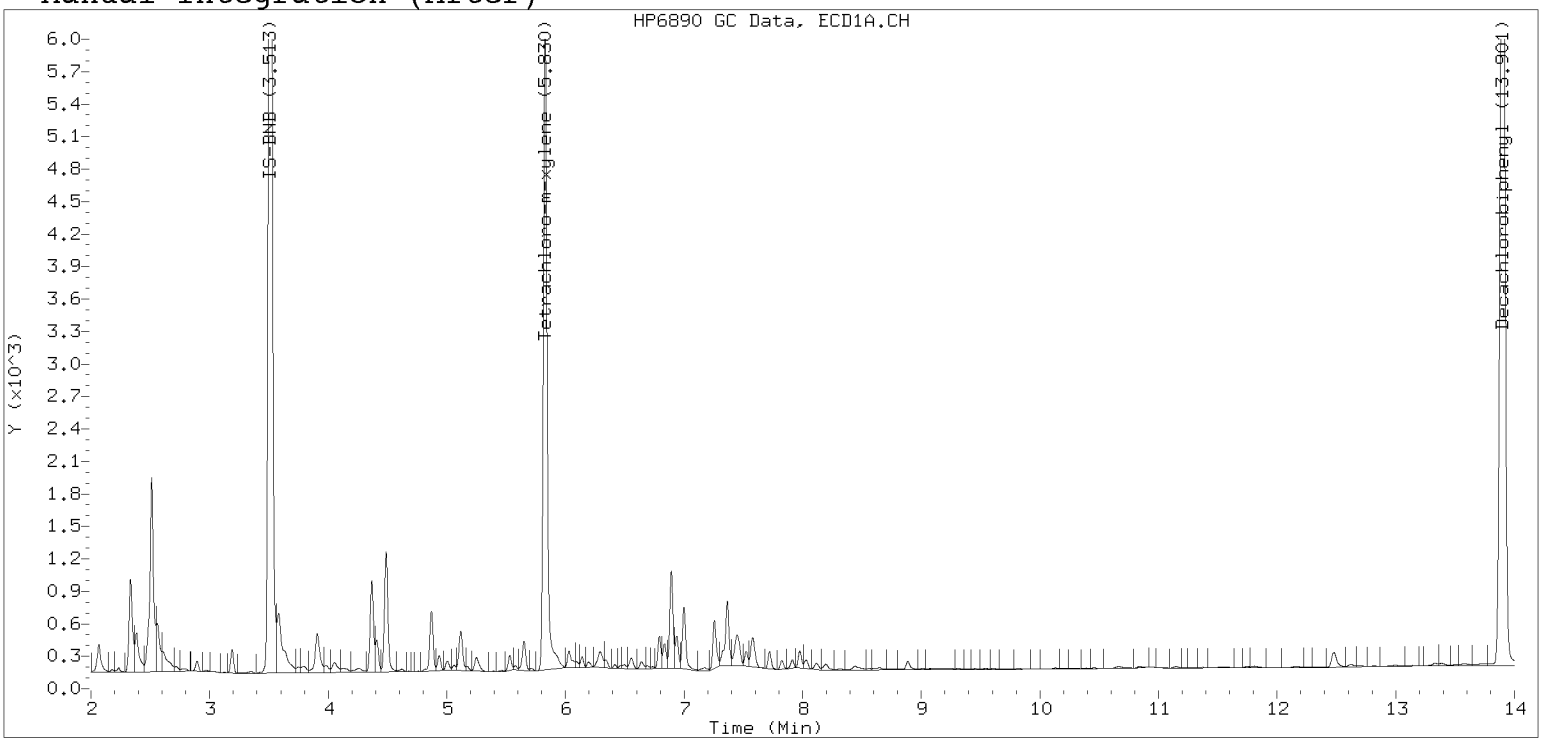


ZB-35 Manual Integration: NO

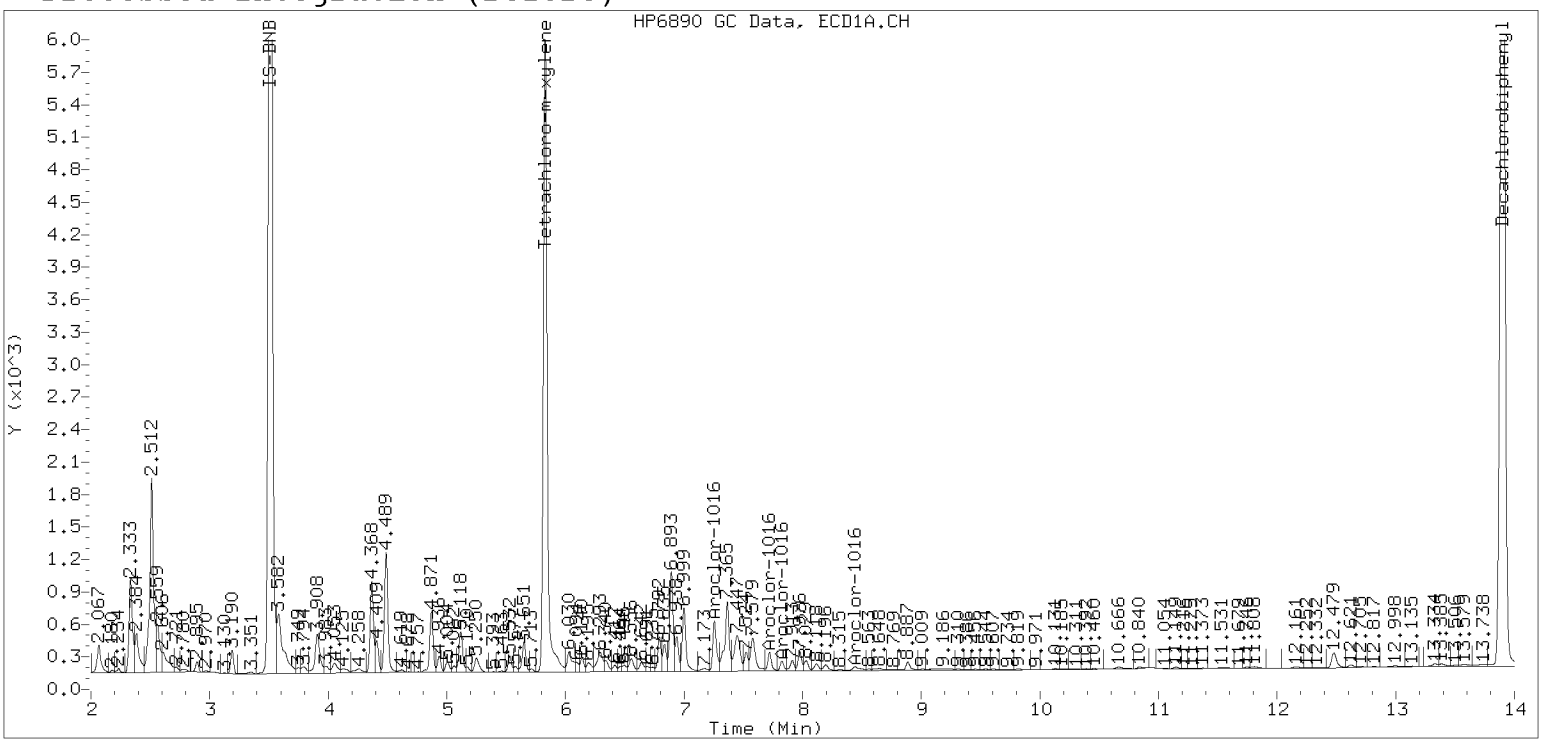
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221230.b/12302216ECD7.D Injection Date: 30-DEC-2022 16:36

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT790L

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-22 B	File ID:	12302217ECD7.D
Sampled:	12/08/22 09:20	Prepared:	12/19/22 12:08	Analyzed:	12/30/22 16:58
% Solids:	75.37	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.62 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0035	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9831*	*9.21*	*115*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9831*	*6.56*	*82.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302217ECD7.D
Data file 2: /221230.b/221230.b/12302217ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-22
Client ID:
Injection Date: 30-DEC-2022 16:58
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	237390	5.705	-0.005	175467	32.9	40.1	19.7	Tetrachloro-m-xylene
13.899	-0.003	411410	14.125	-0.003	345300	46.1	46.2	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	509626	13.8
Hexabromobiphenyl	798898	972852	21.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	319444	28.2
Hexabromobiphenyl	362541	525943	45.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.802) = 276705 Col1 Total PCB = 0.1 ppm*

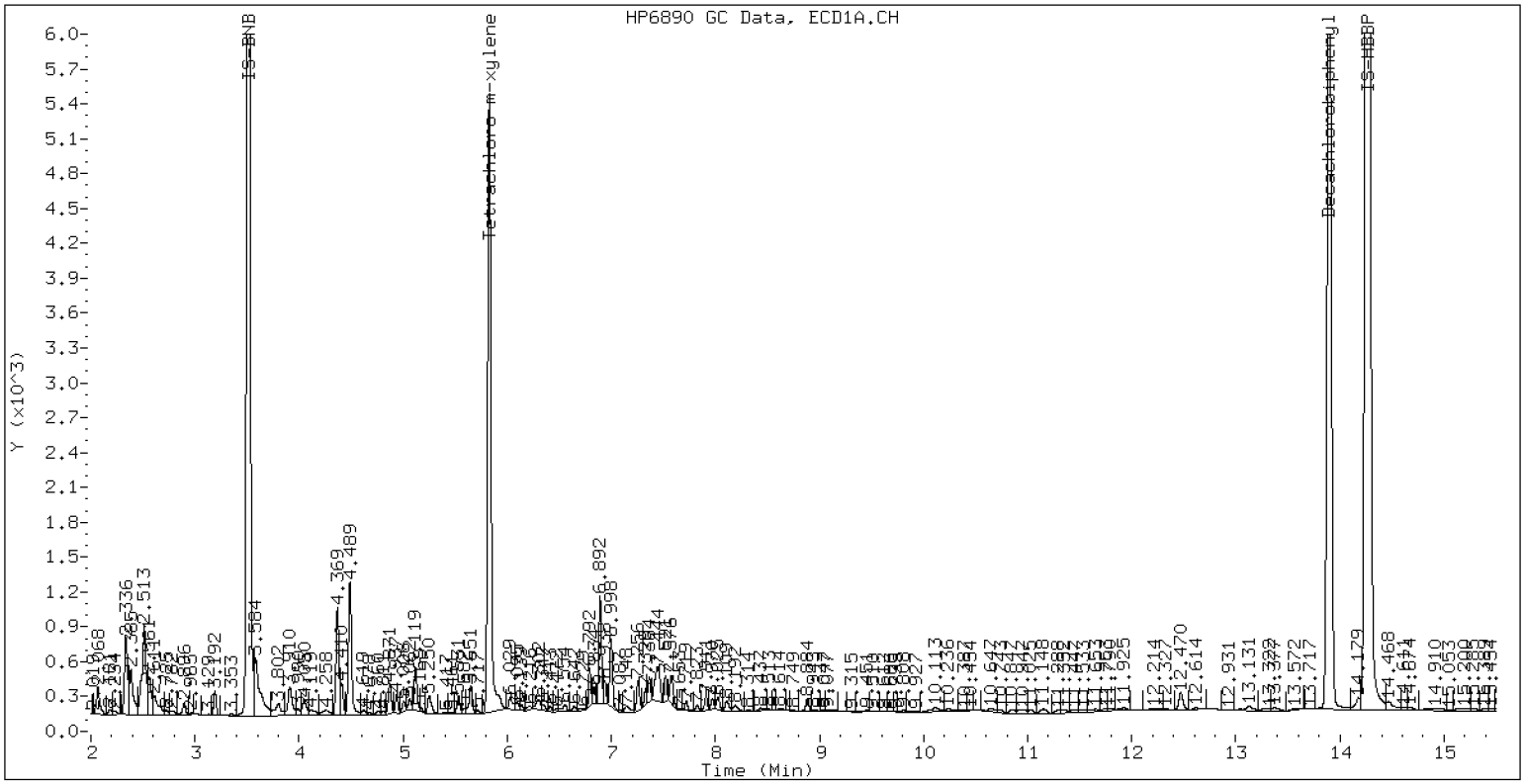
Total PCB Area Col2 (5.810 - 14.028) = 220846 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

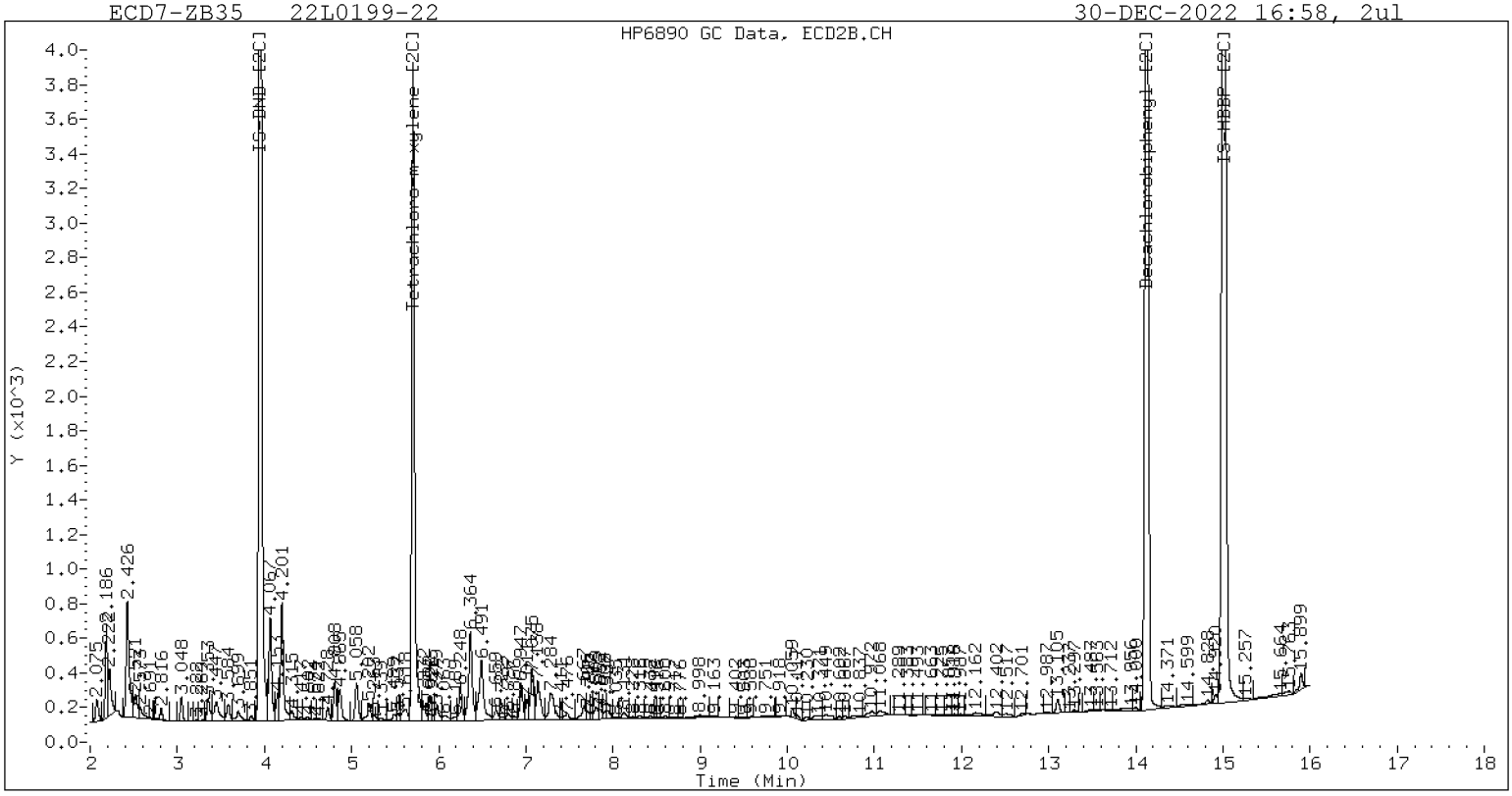
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-22 30-DEC-2022 16:58, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-22 30-DEC-2022 16:58, 2ul

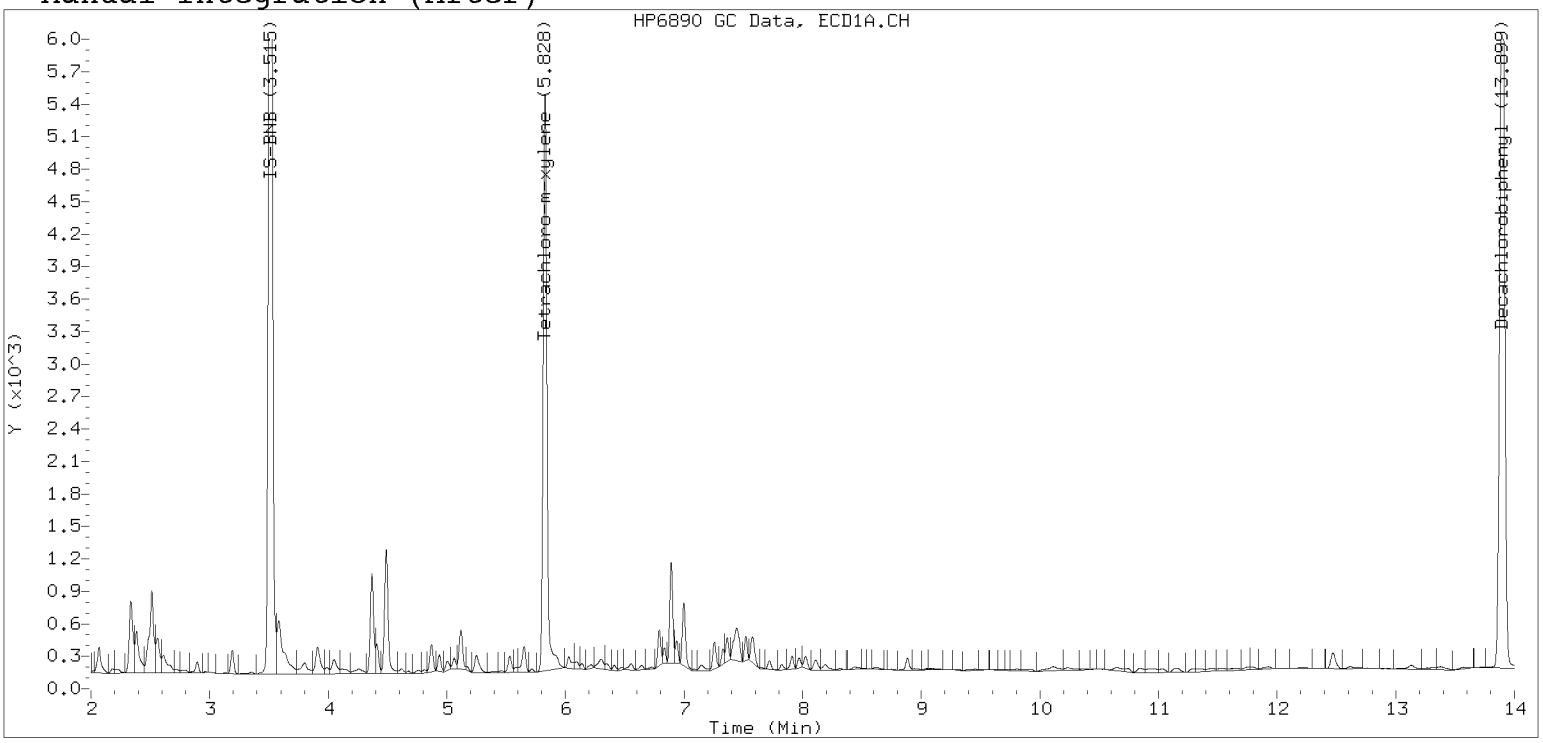


ZB-35 Manual Integration: NO

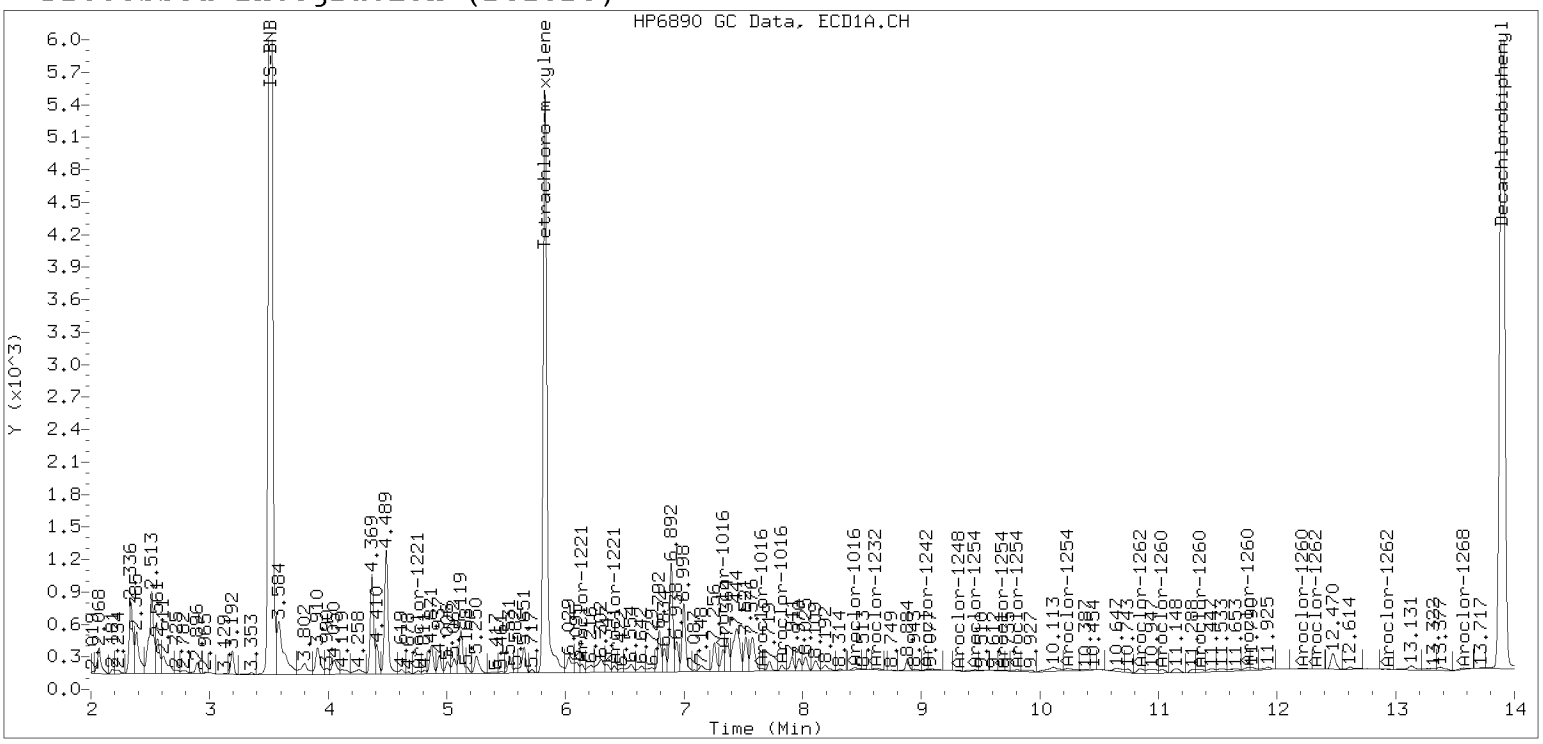
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221230.b/12302217ECD7.D Injection Date: 30-DEC-2022 16:58

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT790M

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-23 B	File ID:	12302218ECD7.D
Sampled:	12/08/22 09:20	Prepared:	12/19/22 12:08	Analyzed:	12/30/22 17:19
% Solids:	67.84	Preparation:	EPA 3546 (Microwave)	Initial/Final:	18.54 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0035	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9507*	*8.50*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9507*	*7.18*	*90.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302218ECD7.D
Data file 2: /221230.b/221230.b/12302218ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-23
Client ID:
Injection Date: 30-DEC-2022 17:19
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	239660	5.705	-0.005	158006	36.1	36.1	0.1	Tetrachloro-m-xylene
13.897	-0.005	328787	14.124	-0.004	292449	42.8	40.1	6.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	468057	4.6
Hexabromobiphenyl	798898	838308	4.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	319440	28.2
Hexabromobiphenyl	362541	513359	41.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.802) = 274136 Col1 Total PCB = 0.1 ppm*

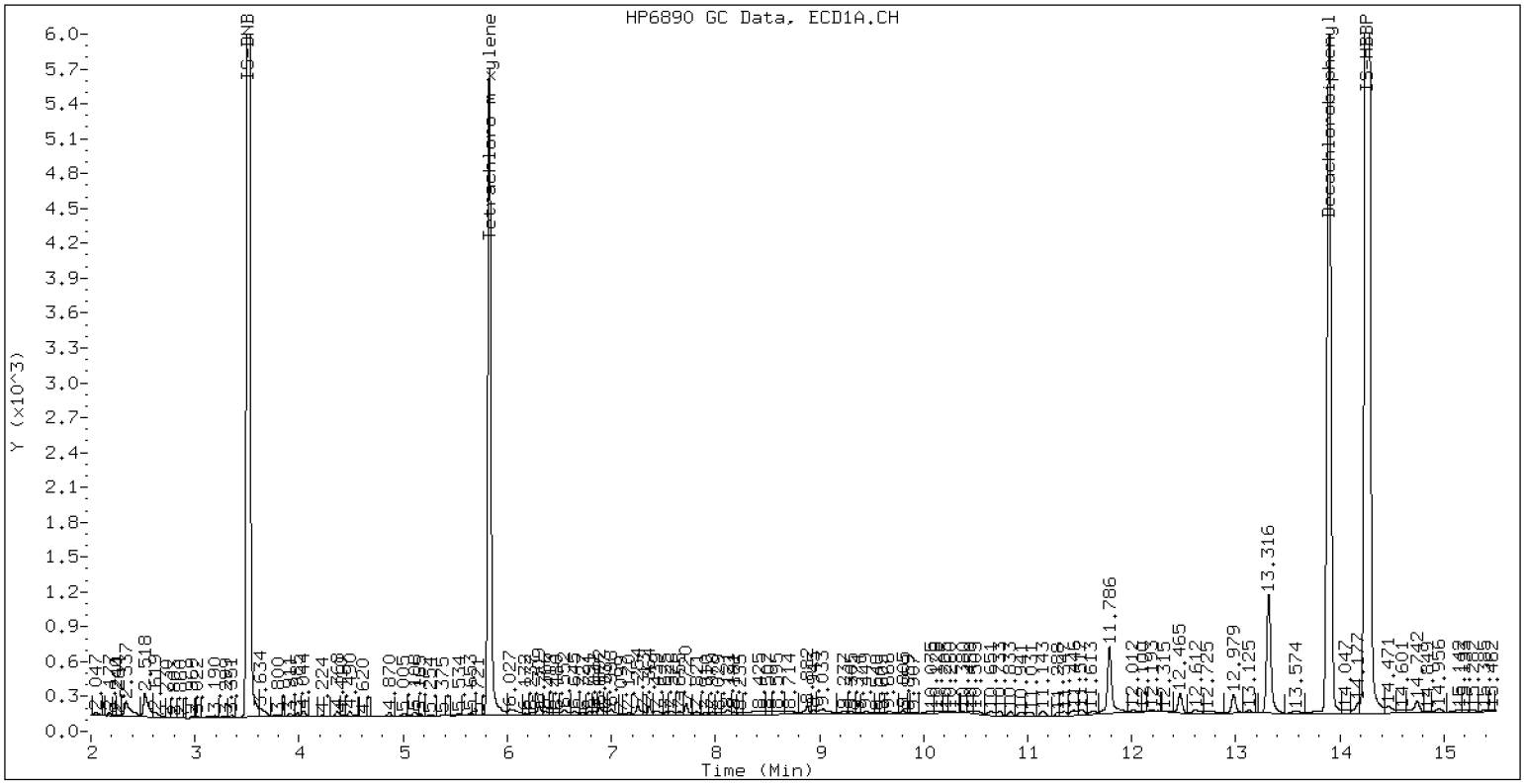
Total PCB Area Col2 (5.810 - 14.028) = 126488 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

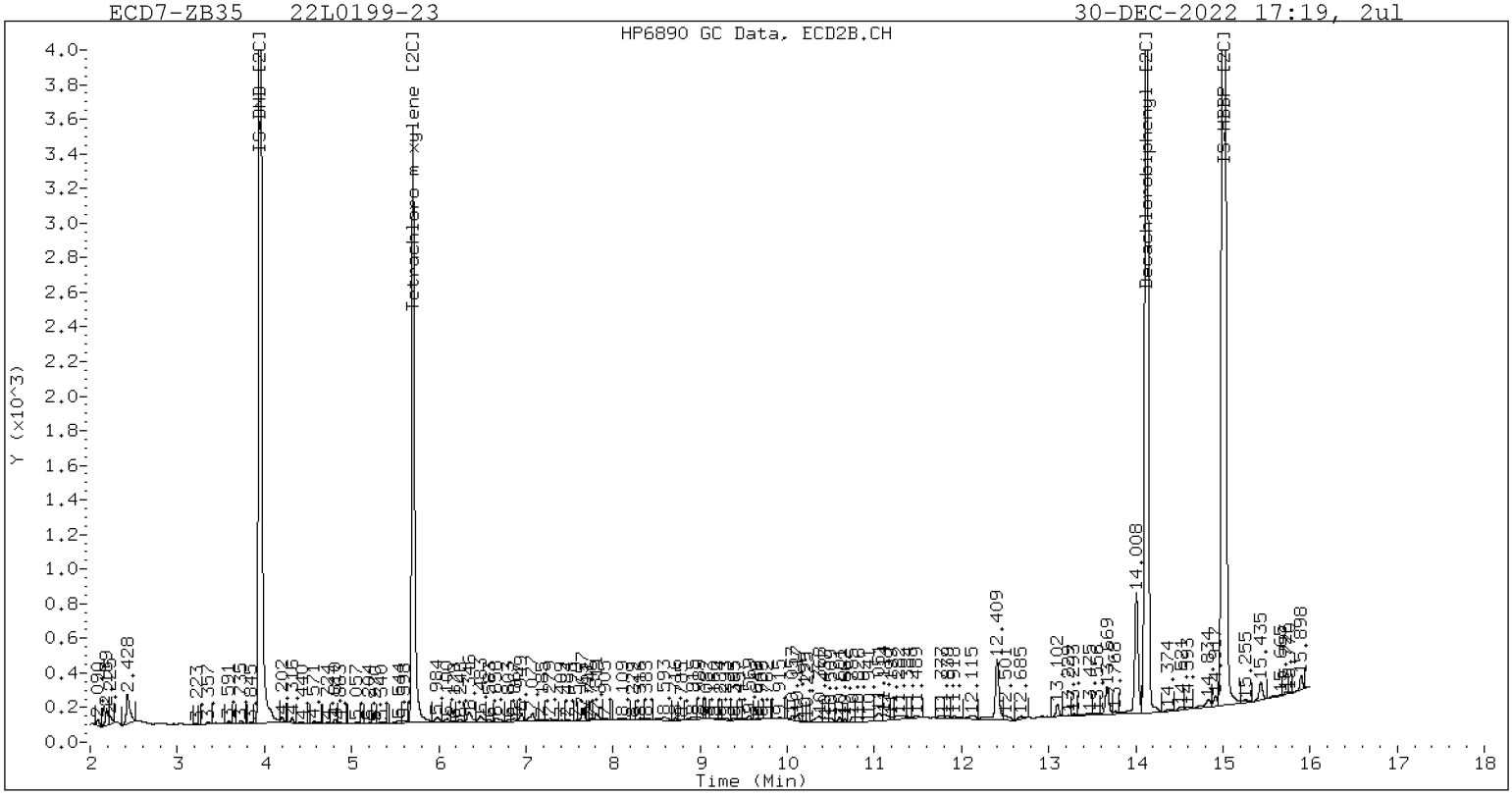
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-23 30-DEC-2022 17:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-23 30-DEC-2022 17:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-24 B	File ID:	01042352ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/05/23 03:19
% Solids:	51.63	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.27 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	30.9	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	37.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	30.6	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9805*	*8.47*	*106*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9805*	*6.42*	*80.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9805*	*7.79*	*97.6*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9805*	*6.85*	*85.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042352ECD7.D
Data file 2: /230104.b/230104.b/01042352ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-24
Client ID:
Injection Date: 05-JAN-2023 03:19
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.003	224793	5.704	-0.003	150563	32.2	34.3	6.4	Tetrachloro-m-xylene
13.894	-0.008	196690	14.121	-0.006	207288	42.4	39.1	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	492983	10.1
Hexabromobiphenyl	798898	505598	-36.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	320034	28.5
Hexabromobiphenyl	362541	373829	3.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.410	-0.018	28827	136.0	1	8.312	-0.008	21554	164.9
Aroclor-1248	2	8.578	-0.027	25164	93.0	2	8.717	-0.008	17802	129.5
Aroclor-1248	3	8.996	-0.026	60413	124.1	3	9.149	-0.021	24272	145.1
Aroclor-1248	4	9.298	-0.013	63454	266.0	4	9.542	-0.050	21586	~~109~~ 146.47 .9
	Total Col1Ave (4 peaks):				154.8	Total Col2Ave (4 peaks):				137.3 RPD = 12
	Corrected Ave (3 peaks):				117.7	Corrected Ave (3 peaks):				128.2 RPD = 9
Aroclor-1254	1	9.298	-0.023	63454	146.2	1	9.448	-0.012	39684	192.3
Aroclor-1254	2	9.373	-0.029	26900	159.4	2	9.966	-0.012	20311	122.4
Aroclor-1254	3	9.669	-0.025	50528	184.3	3	10.115	-0.014	69496	194.9
Aroclor-1254	4	9.798	-0.033	91576	171.4	4	10.363	-0.014	37391	101.2
Aroclor-1254	5	10.131	-0.058	62622	~~171~~.0	5	10.563	-0.012	57774	324.4
	Total Col1Ave (5 peaks):				166.4	Total Col2Ave (5 peaks):				187.1 RPD = 12
	Corrected Ave (4 peaks):				162.0	Corrected Ave (4 peaks):				152.7 RPD = 6
Aroclor-1260	1	11.043	-0.013	32211	175.0	1	11.653	-0.008	30549	154.8
Aroclor-1260	2	11.358	-0.014	26139	137.3	2	11.913	-0.010	60453	122.1
Aroclor-1260	3	11.728	-0.018	79492	158.9	3	12.431	-0.011	26637	202.0
Aroclor-1260	4	12.129	-0.021	40608	159.4	4	12.496	-0.010	44634	135.2
Aroclor-1260	5	12.243	-0.011	19373	185.8	NS	---			----
	Total Col1Ave (5 peaks):				163.3	Total Col2Ave (4 peaks):				153.5 RPD = 6
	Corrected Ave (4 peaks):				157.7	Corrected Ave (3 peaks):				137.4 RPD = 14
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 1849289 Col1 Total PCB = 0.4 ppm*

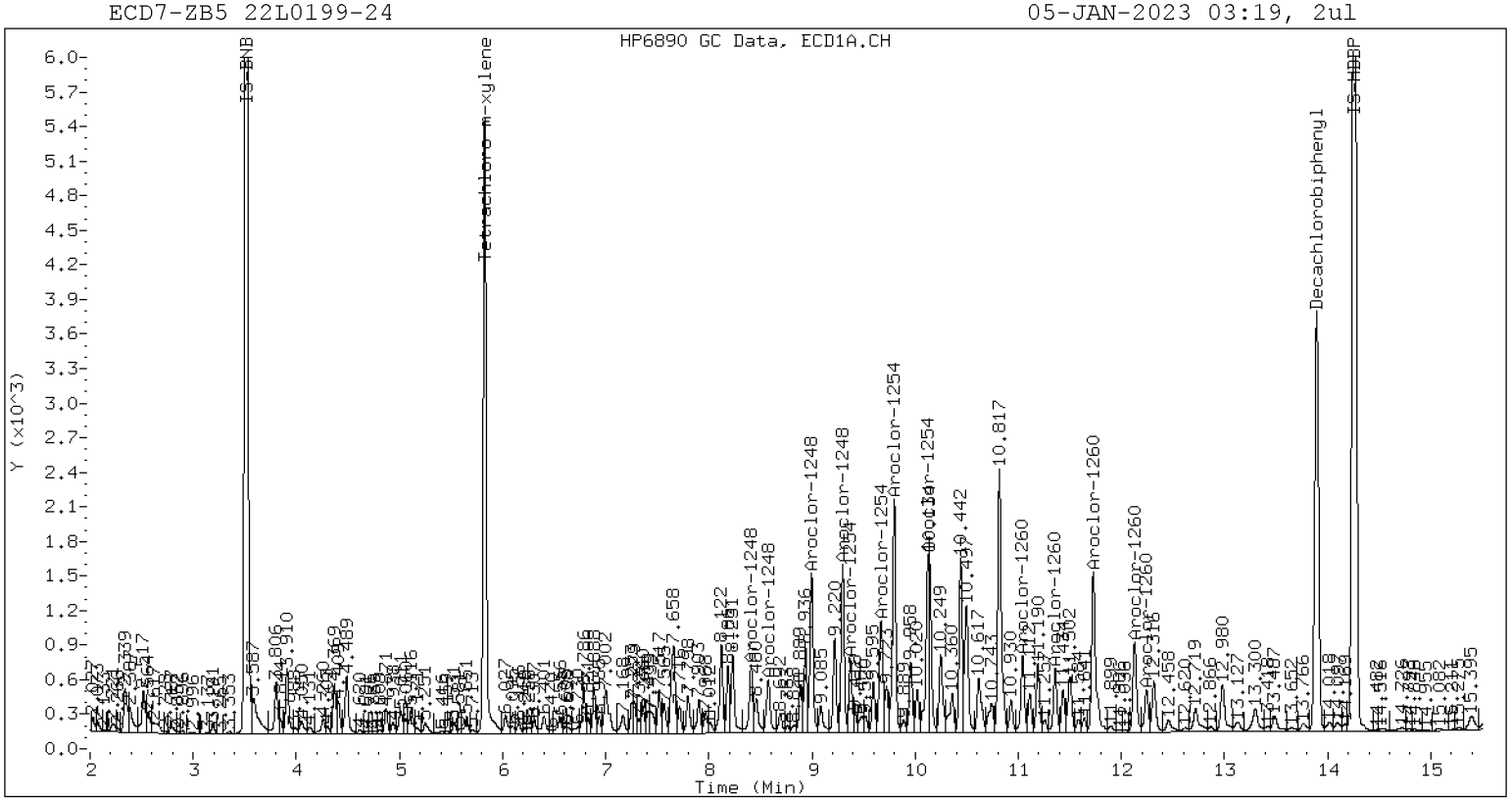
Total PCB Area Col2 (5.807 - 14.028) = 1303312 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

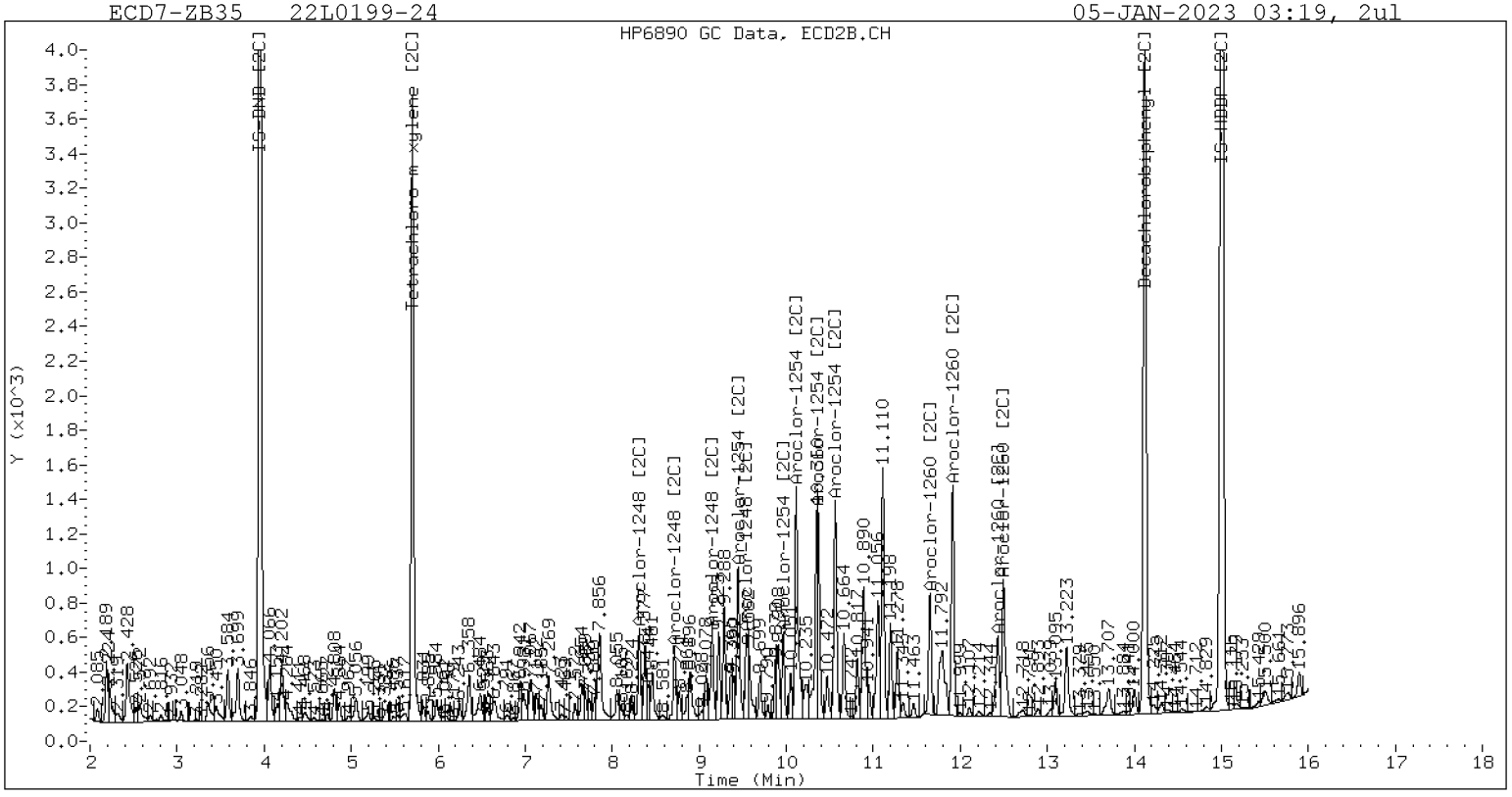
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-24 05-JAN-2023 03:19, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-24 05-JAN-2023 03:19, 2ul

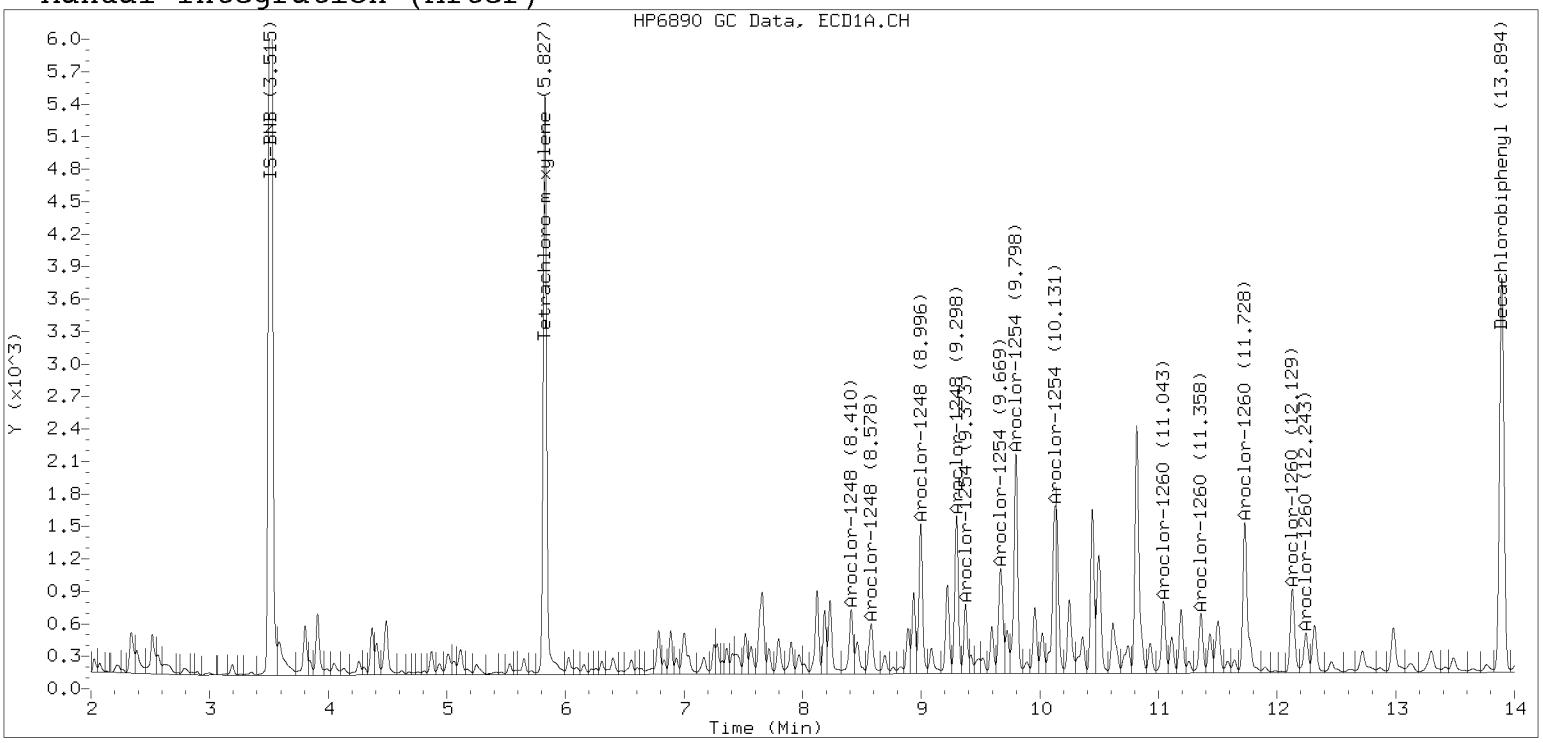


ZB-35 Manual Integration: YES

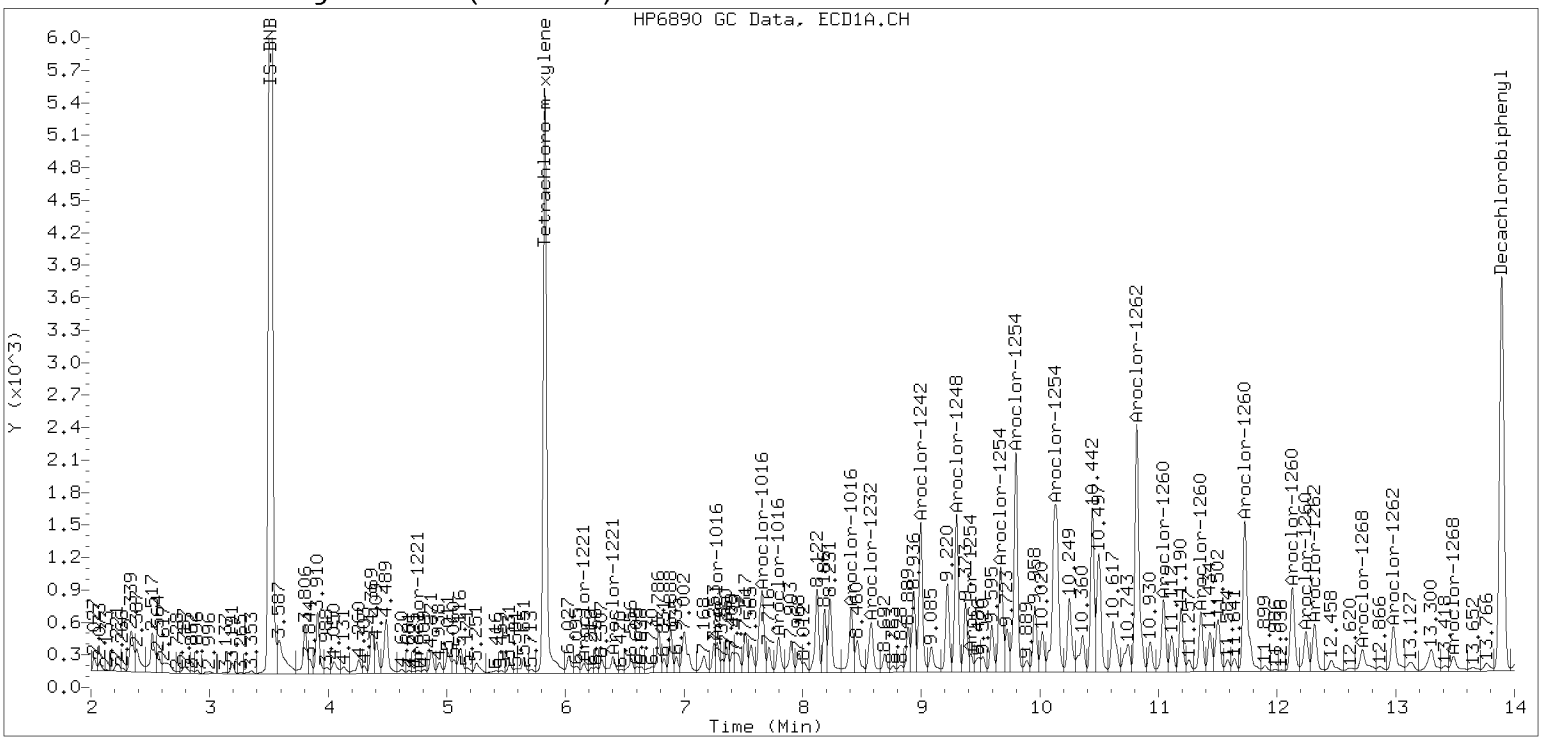
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042352ECD7.D Injection Date: 05-JAN-2023 03:19

Manual Integration (After)



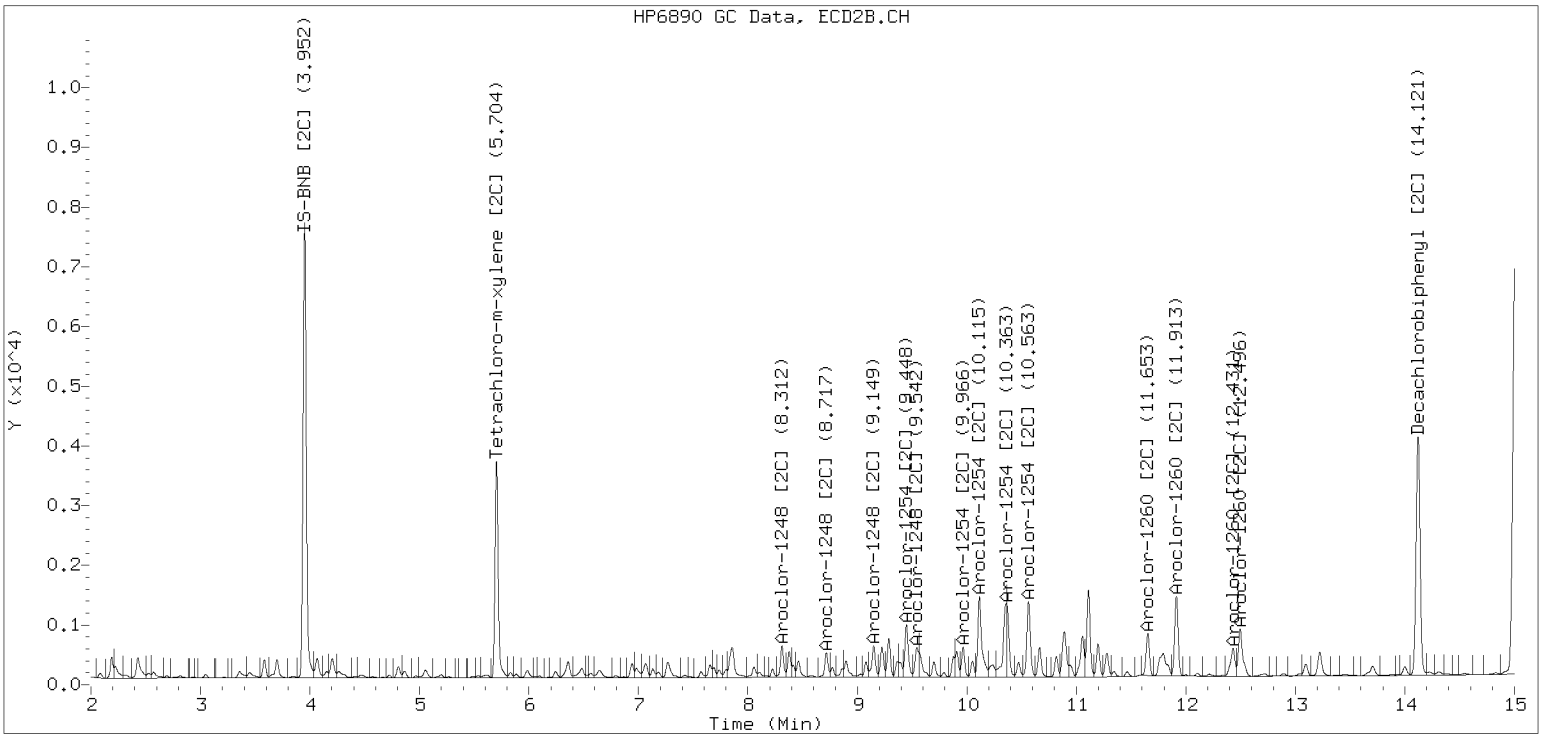
Processed Integration (Before)



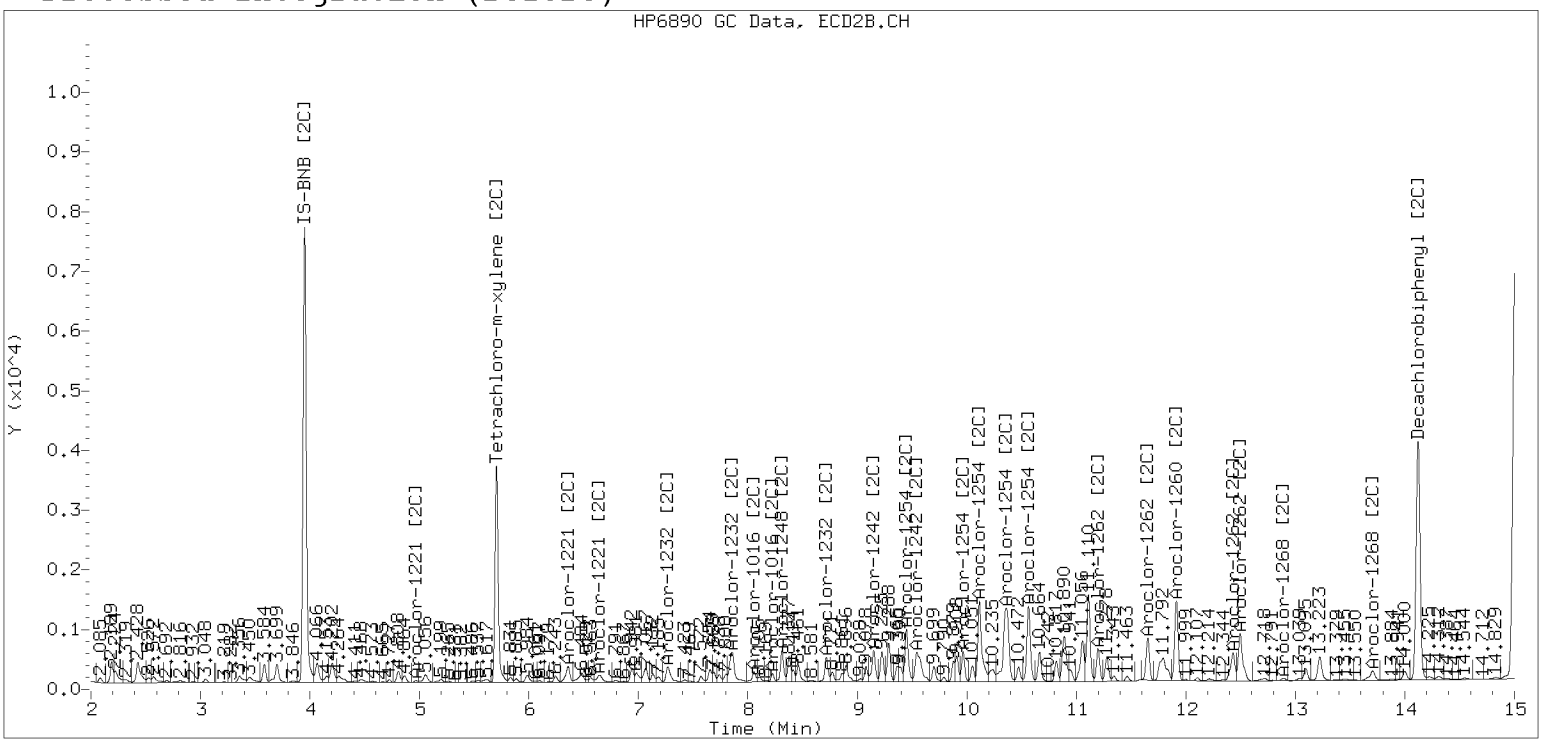
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042352ECD7.D Injection Date: 05-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-25 B	File ID:	01052374ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 14:02
% Solids:	51.87	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.15 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	26.1	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	38.9	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	30.4	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9830*	*8.08*	*101*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9830*	*5.57*	*69.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9830*	*7.29*	*91.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9830*	*6.51*	*81.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052374ECD7.D
Data file 2: /230105.b/230105.b/01052374ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-25
Client ID:
Injection Date: 06-JAN-2023 14:02
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.006	182810	5.703	-0.007	128434	27.9	32.6	15.6	Tetrachloro-m-xylene
13.895	-0.009	173033	14.123	-0.004	180800	40.5	36.5	10.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	462480	3.3
Hexabromobiphenyl	798898	466263	-41.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	287211	15.3
Hexabromobiphenyl	362541	348456	-3.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.014	23656	119.0	1	8.312	-0.010	15991	136.3
Aroclor-1248	2	8.579	-0.020	18770	73.9	2	8.718	-0.009	13649	110.6
Aroclor-1248	3	8.996	-0.019	47485	104.0	3	9.150	-0.022	19035	126.8
Aroclor-1248	4	9.298	-0.013	50821	227.1	4	9.543	-0.050	18745	106.4
		Total Col1Ave (4 peaks):			131.0		Total Col2Ave (4 peaks):			120.0 RPD = 9
		Corrected Ave (3 peaks):			99.0		Corrected Ave (3 peaks):			114.6 RPD = 15
										124.57
Aroclor-1254	1	9.298	-0.014	50821	124.8	1	9.449	-0.012	33904	183.1
Aroclor-1254	2	9.374	-0.018	21547	136.1	2	9.967	-0.010	14405	96.8
Aroclor-1254	3	9.672	-0.012	40147	156.1	3	10.116	-0.014	56614	176.9
Aroclor-1254	4	9.799	-0.020	72096	143.8	4	10.363	-0.015	67925	205.0
Aroclor-1254	5	10.131	-0.044	92301	268.6	5	10.564	-0.011	50047	313.1
		Total Col1Ave (5 peaks):			165.9		Total Col2Ave (5 peaks):			195.0 RPD = 16
		Corrected Ave (4 peaks):			140.2		Corrected Ave (4 peaks):			165.4 RPD = 17
Aroclor-1260	1	11.044	-0.012	29462	173.6	1	11.654	-0.009	28486	154.9
Aroclor-1260	2	11.360	-0.013	24654	140.4	2	11.914	-0.013	55799	120.9
Aroclor-1260	3	11.728	-0.017	72598	157.4	3	12.433	-0.010	24097	196.1
Aroclor-1260	4	12.130	-0.020	36192	154.1	4	12.498	-0.010	42041	136.6
Aroclor-1260	5	12.245	-0.011	17734	184.4	NS	---			----
		Total Col1Ave (5 peaks):			162.0		Total Col2Ave (4 peaks):			152.1 RPD = 6
		Corrected Ave (4 peaks):			156.4		Corrected Ave (3 peaks):			137.5 RPD = 13
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 1759897 Col1 Total PCB = 0.4 ppm*

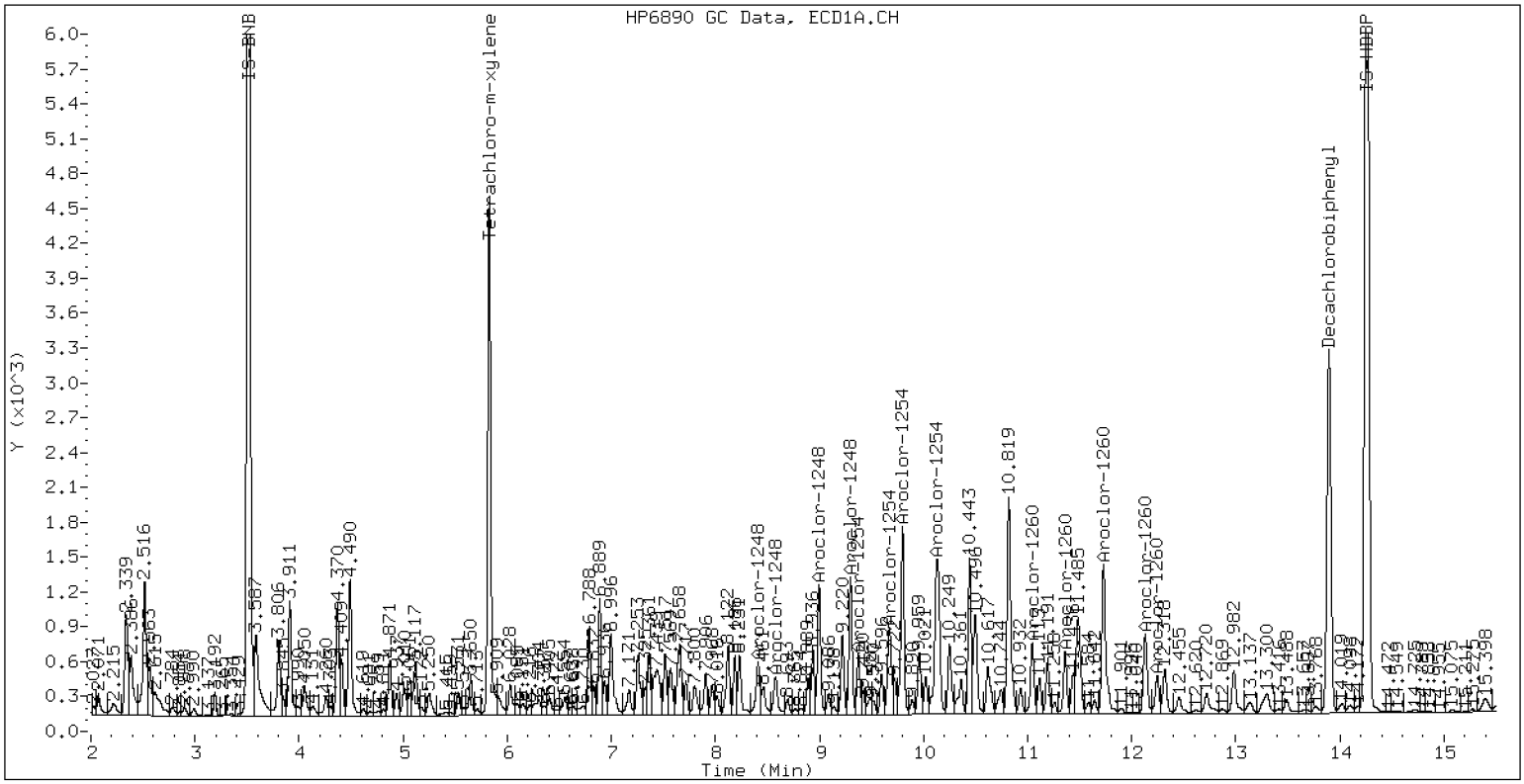
Total PCB Area Col2 (5.810 - 14.028) = 1227673 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

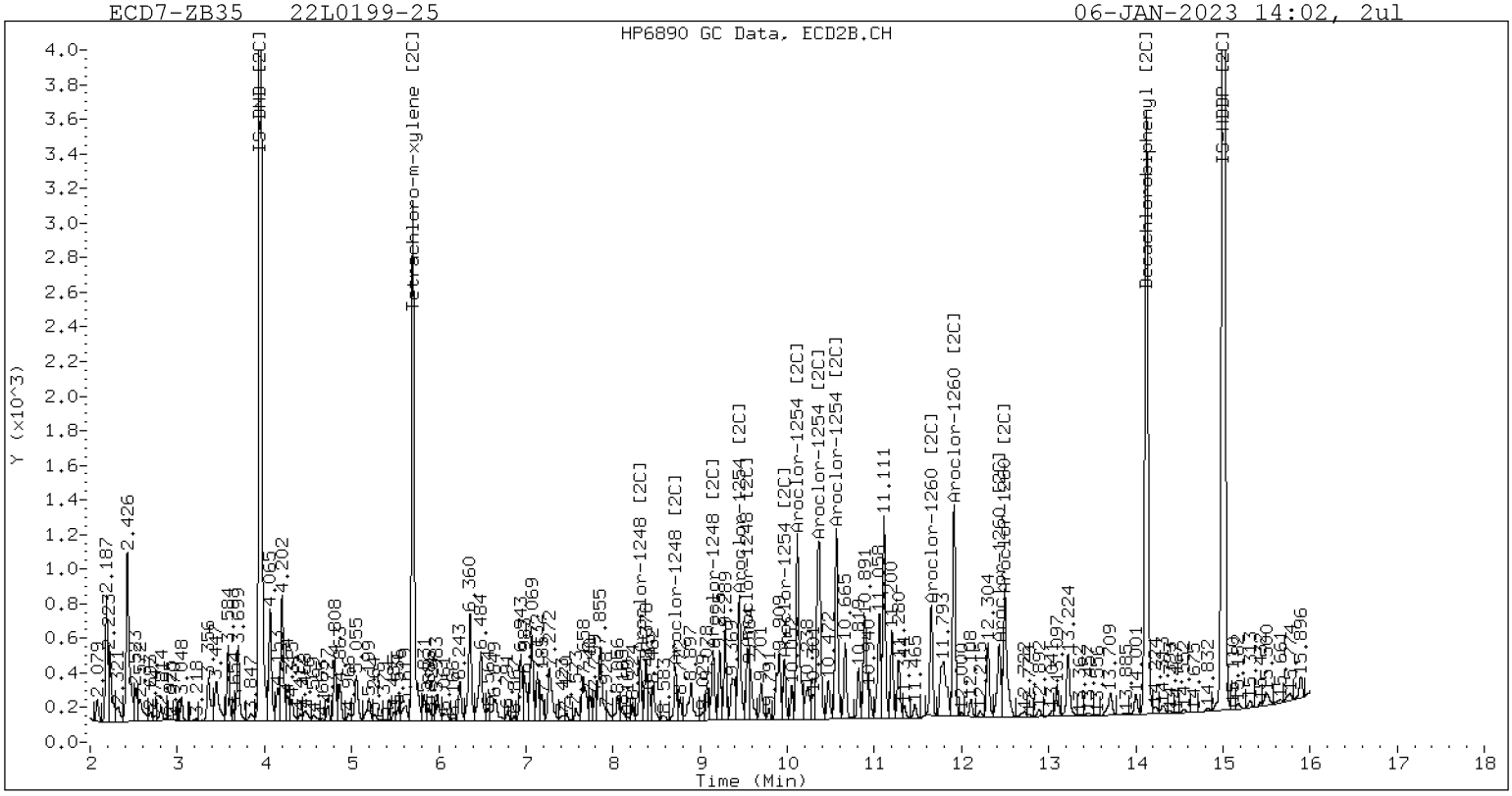
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-25 06-JAN-2023 14:02, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-25 06-JAN-2023 14:02, 2ul

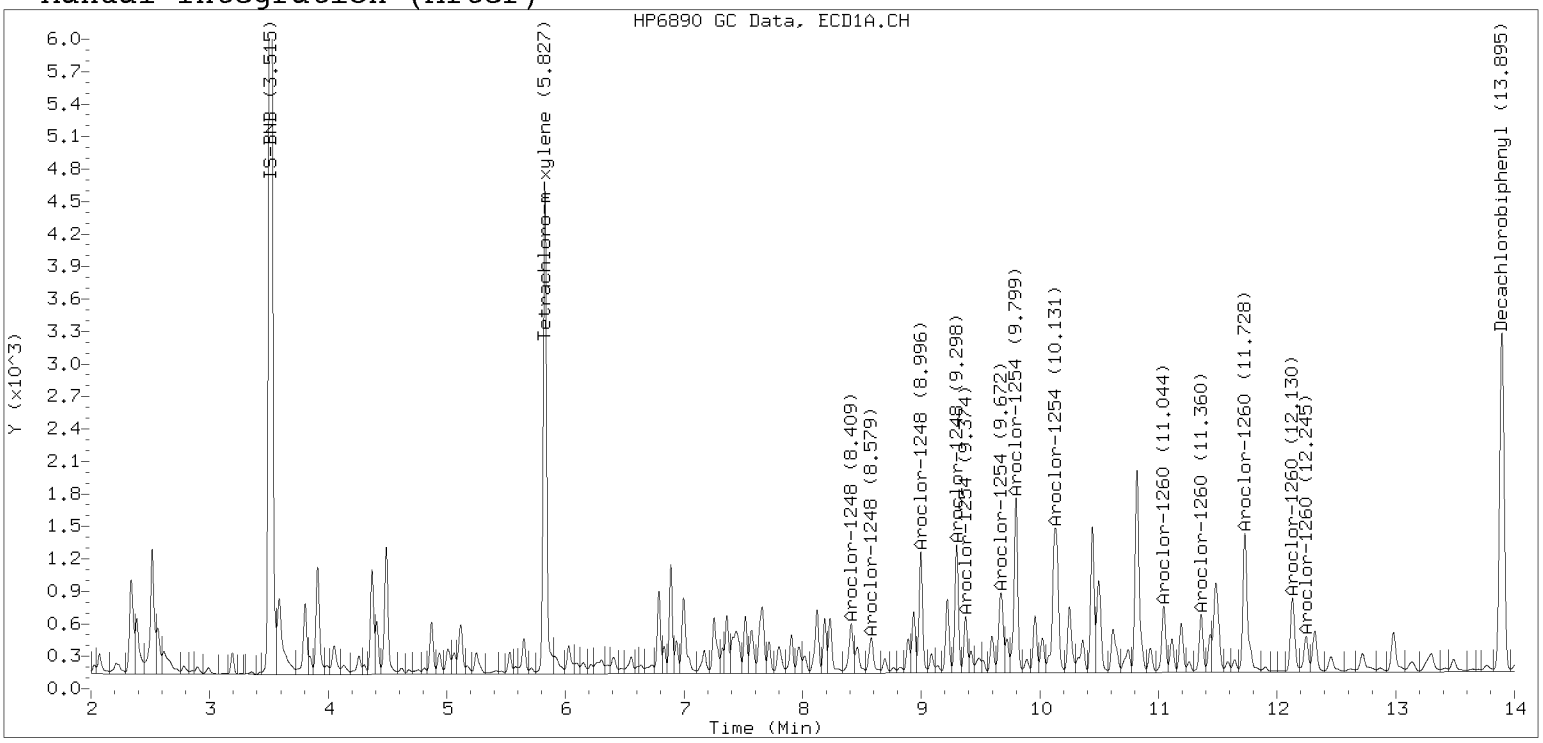


ZB-35 Manual Integration: YES

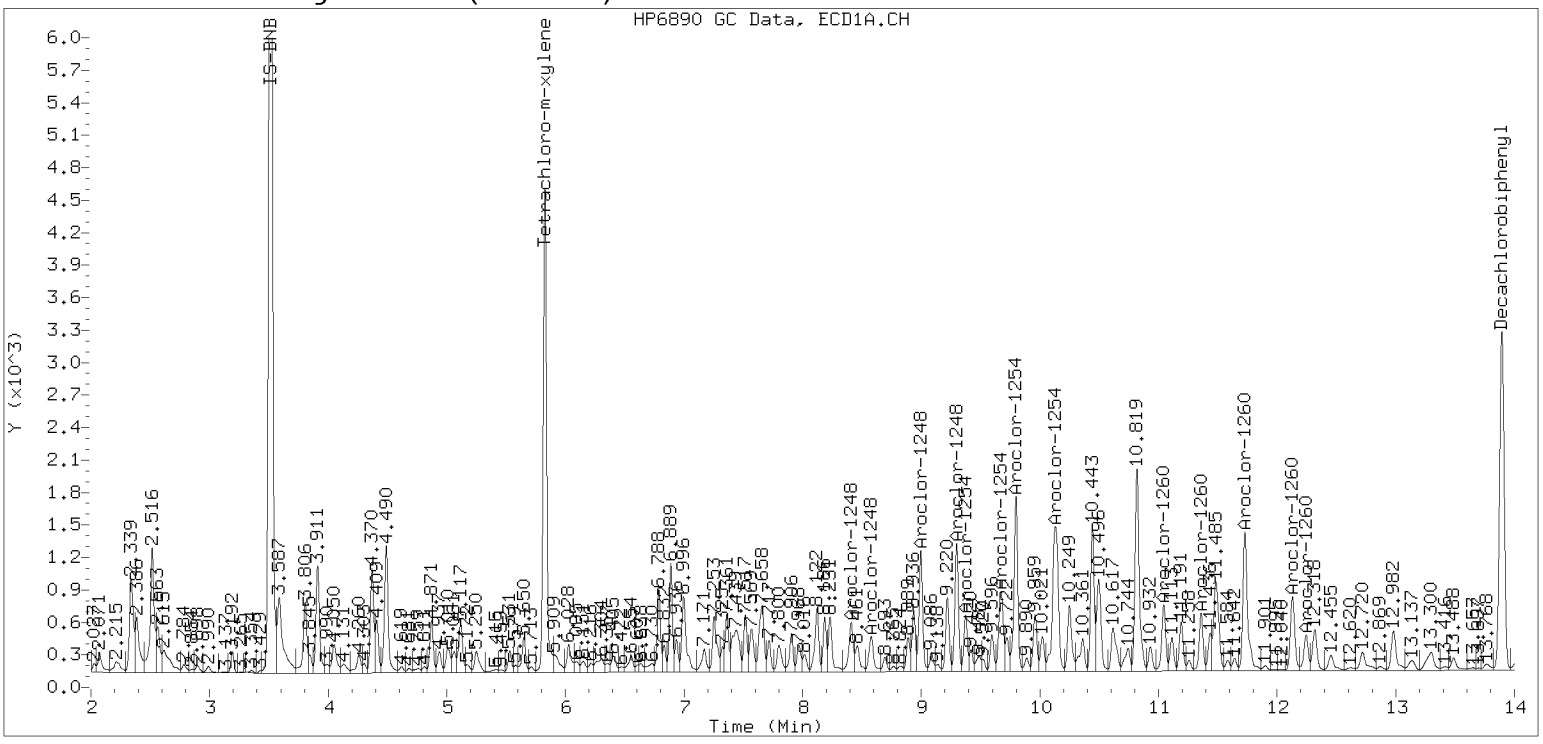
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052374ECD7.D Injection Date: 06-JAN-2023 14:02

Manual Integration (After)



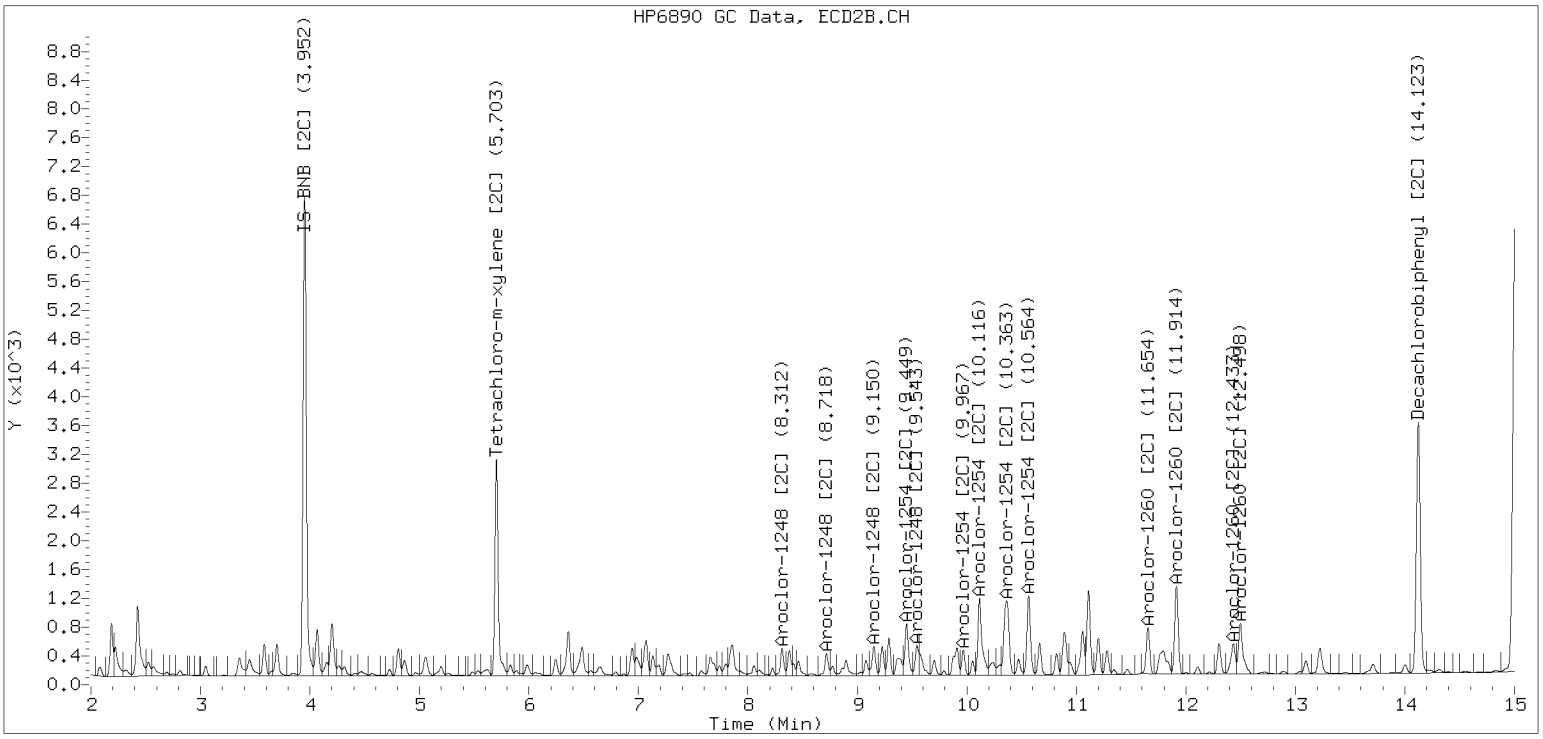
Processed Integration (Before)



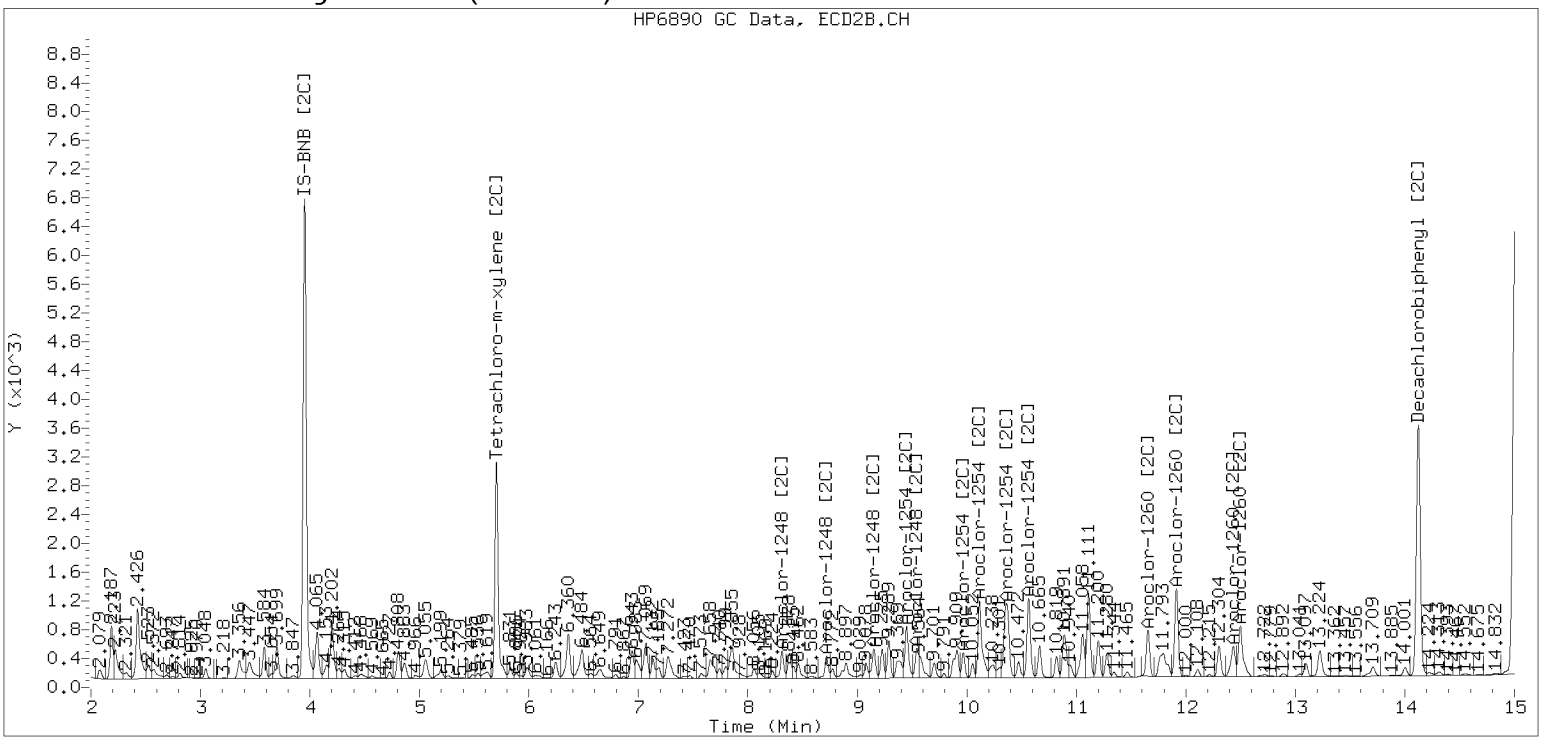
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052374ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-26 B	File ID:	01052375ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 14:23
% Solids:	52.29	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.96 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	51.7	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	84.1	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	64.2	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9817*	*7.40*	*92.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9817*	*4.99*	*62.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9817*	*6.94*	*86.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9817*	*5.77*	*72.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052375ECD7.D
Data file 2: /230105.b/230105.b/01052375ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-26
Client ID:
Injection Date: 06-JAN-2023 14:23
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.008	174324	5.702	-0.008	124421	25.0	28.9	14.6	Tetrachloro-m-xylene
13.895	-0.009	160242	14.123	-0.005	179573	37.1	34.8	6.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	492153	9.9
Hexabromobiphenyl	798898	471321	-41.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313807	26.0
Hexabromobiphenyl	362541	363683	0.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.407	-0.016	47596	224.9	1	8.311	-0.010	30328	236.6
Aroclor-1248	2	8.577	-0.023	30540	113.0	2	8.717	-0.009	27718	205.6
Aroclor-1248	3	8.995	-0.020	103382	212.7	3	9.149	-0.024	39417	240.3
Aroclor-1248	4	9.297	-0.014	115439	484.8	4	9.542	-0.050	62269	323.4
		Total Col1Ave (4 peaks):			258.9		Total Col2Ave (4 peaks):			251.5 RPD = 3
		Corrected Ave (3 peaks):			183.6		Corrected Ave (3 peaks):			227.5 RPD = 21
Aroclor-1254	1	9.297	-0.016	115439	266.4	1	9.449	-0.012	74804	369.7
Aroclor-1254	2	9.372	-0.020	47521	282.0	2	9.966	-0.011	36142	222.2
Aroclor-1254	3	9.668	-0.017	87746	320.6	3	10.115	-0.015	134898	385.8
Aroclor-1254	4	9.797	-0.022	163716	306.9	4	10.359	-0.019	164371	453.9
Aroclor-1254	5	10.132	-0.043	208677	570.6	5	10.564	-0.012	117813	674.6
		Total Col1Ave (5 peaks):			349.3		Total Col2Ave (5 peaks):			421.2 RPD = 19
		Corrected Ave (4 peaks):			294.0		Corrected Ave (4 peaks):			357.9 RPD = 20
Aroclor-1260	1	11.043	-0.013	63279	368.8	1	11.653	-0.010	67524	351.7
Aroclor-1260	2	11.358	-0.014	50523	284.7	2	11.913	-0.013	128147	266.0
Aroclor-1260	3	11.728	-0.018	145759	312.6	3	12.432	-0.011	48051	374.6
Aroclor-1260	4	12.128	-0.022	82981	349.5	4	12.496	-0.012	94884	295.5
Aroclor-1260	5	12.243	-0.013	35652	366.8	NS	---			----
		Total Col1Ave (5 peaks):			336.5		Total Col2Ave (4 peaks):			322.0 RPD = 4
		Corrected Ave (4 peaks):			328.4		Corrected Ave (3 peaks):			304.4 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 3034972 Col1 Total PCB = 0.6 ppm*

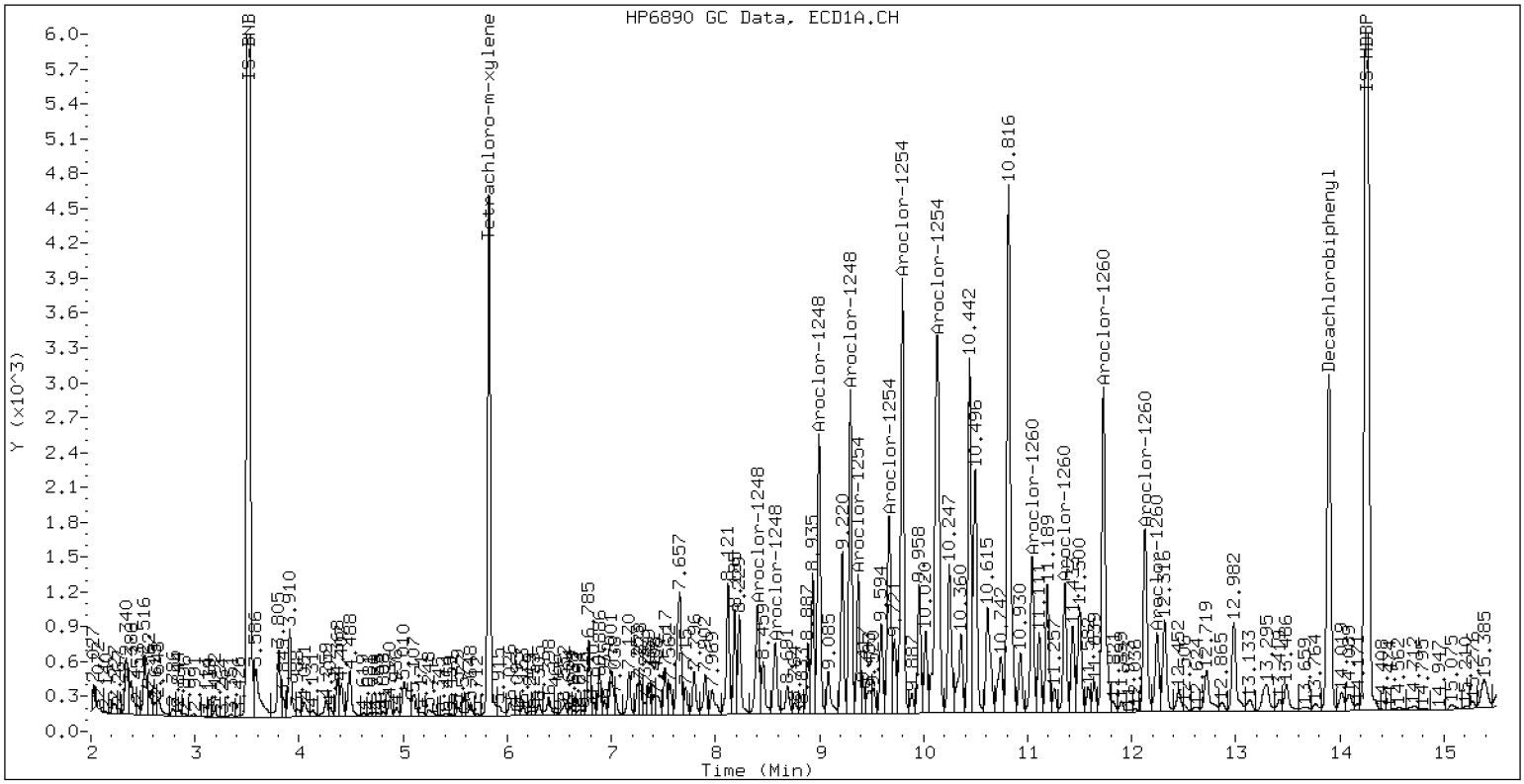
Total PCB Area Col2 (5.810 - 14.028) = 2315992 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

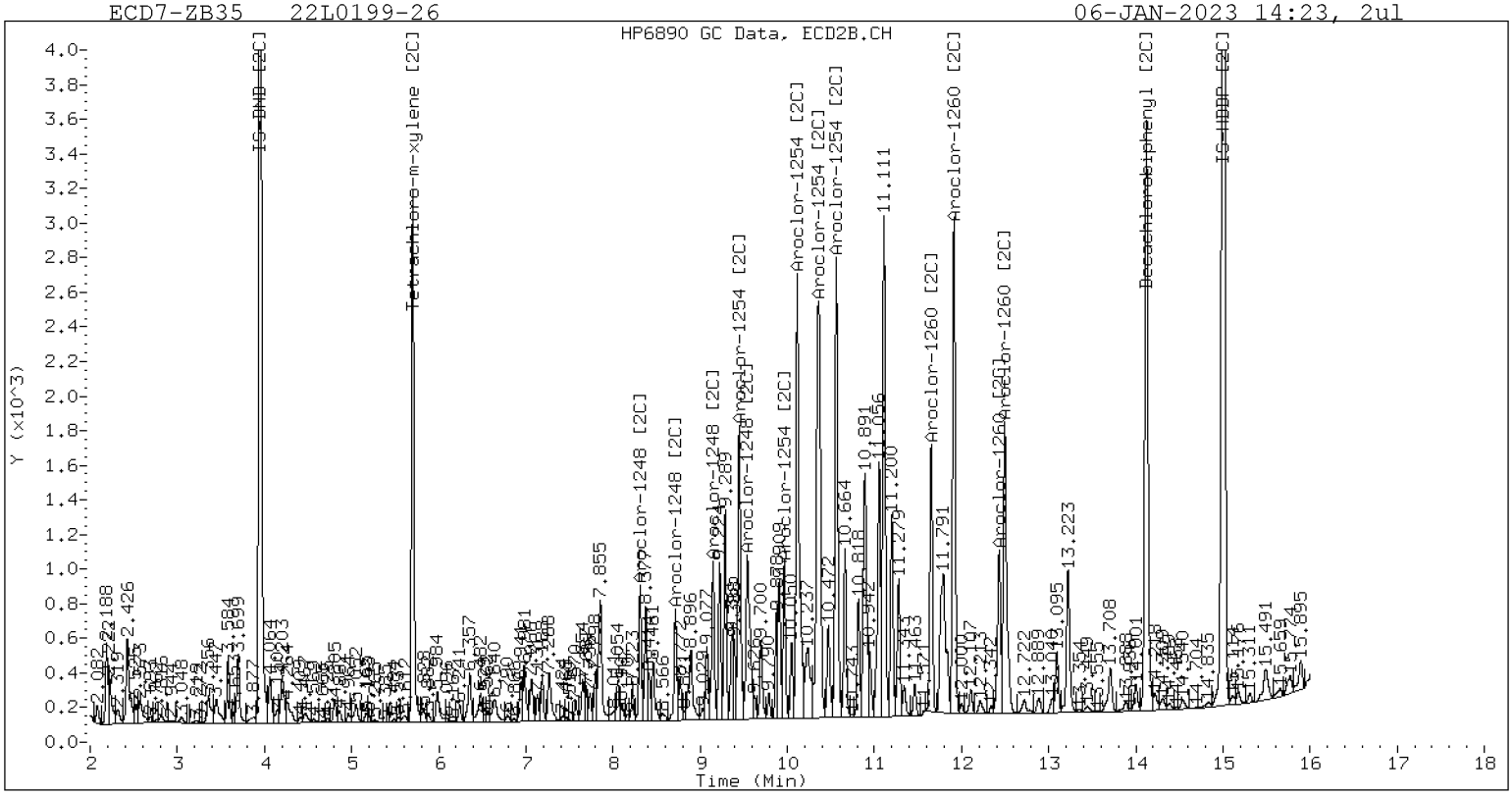
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-26 06-JAN-2023 14:23, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-26 06-JAN-2023 14:23, 2ul

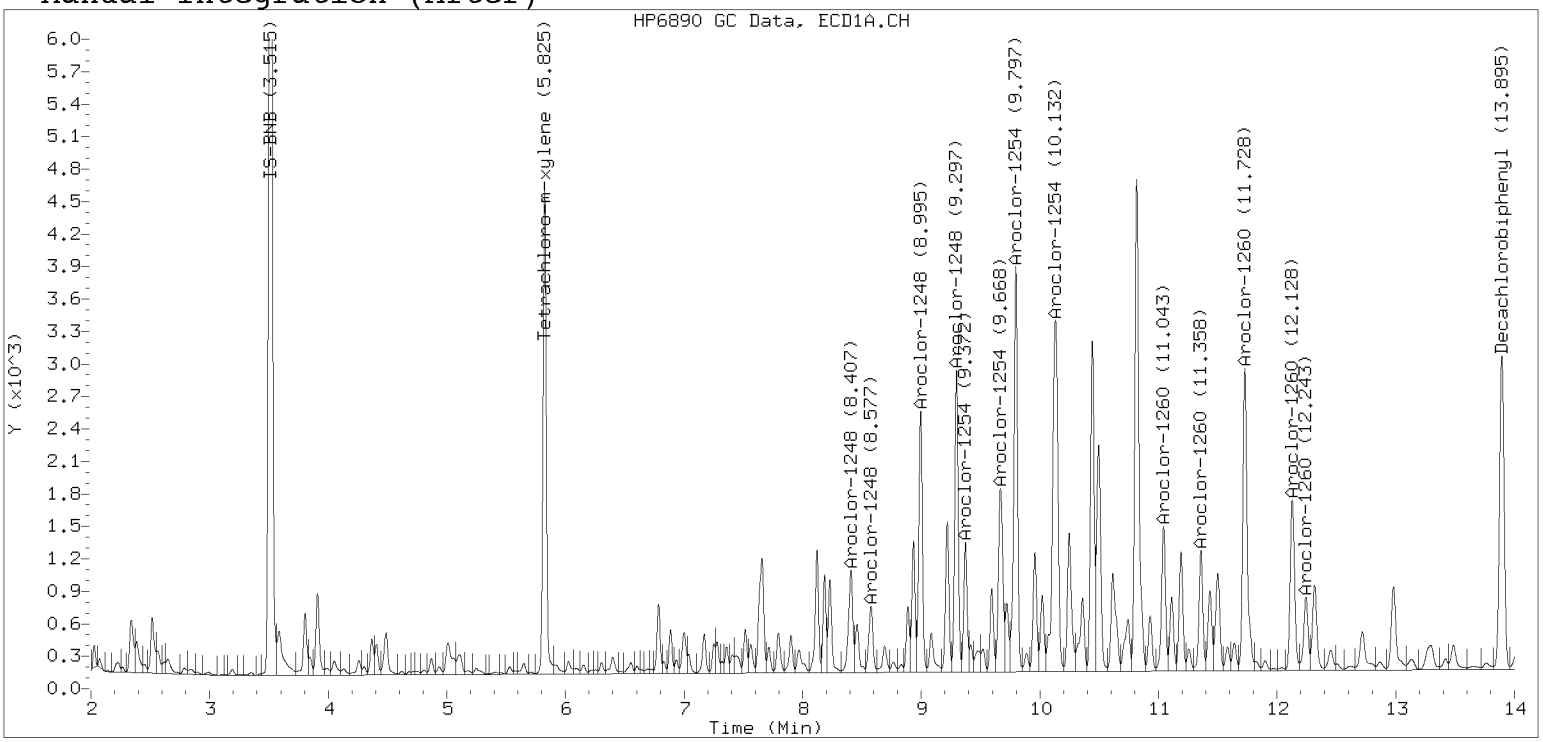


ZB-35 Manual Integration: YES

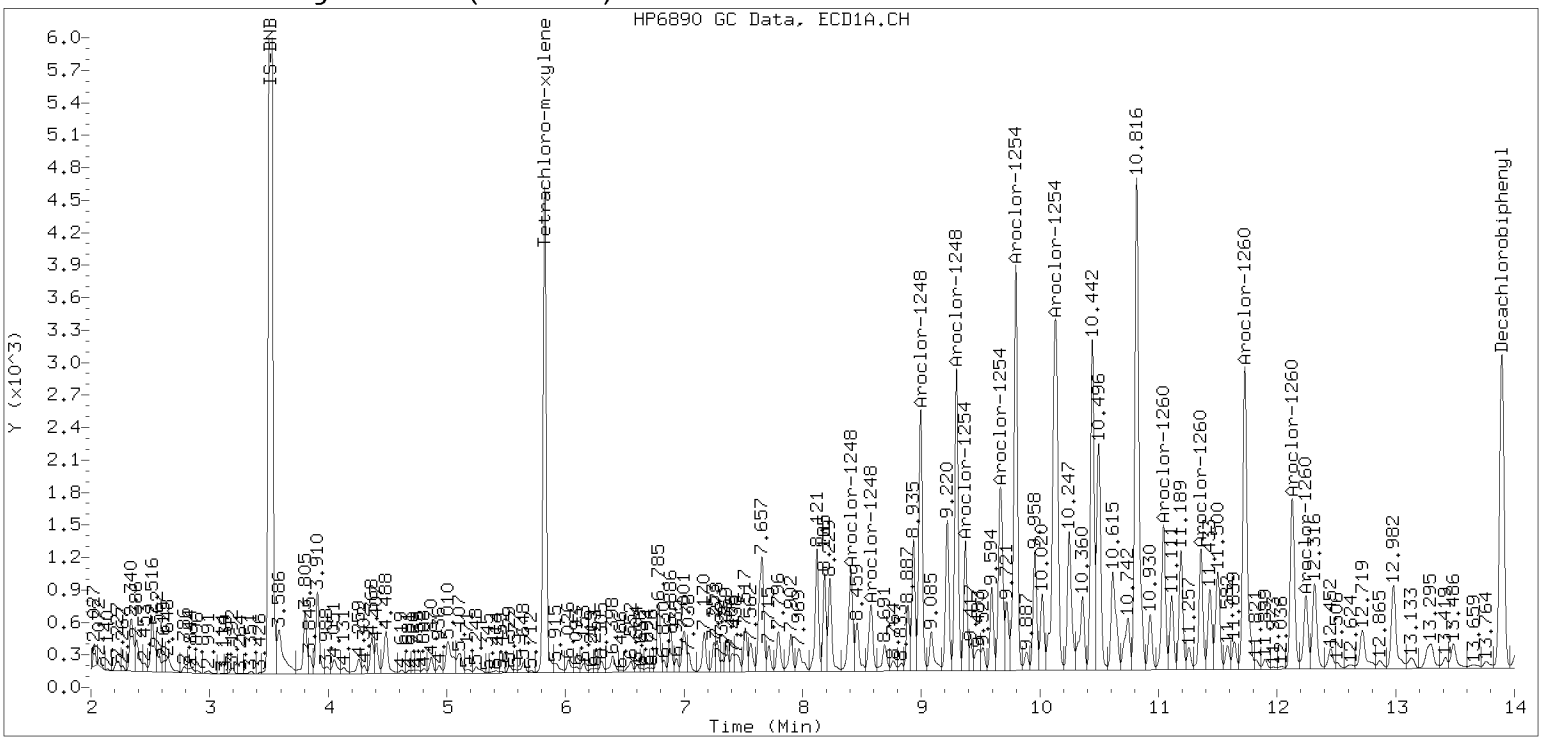
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052375ECD7.D Injection Date: 06-JAN-2023 14:23

Manual Integration (After)



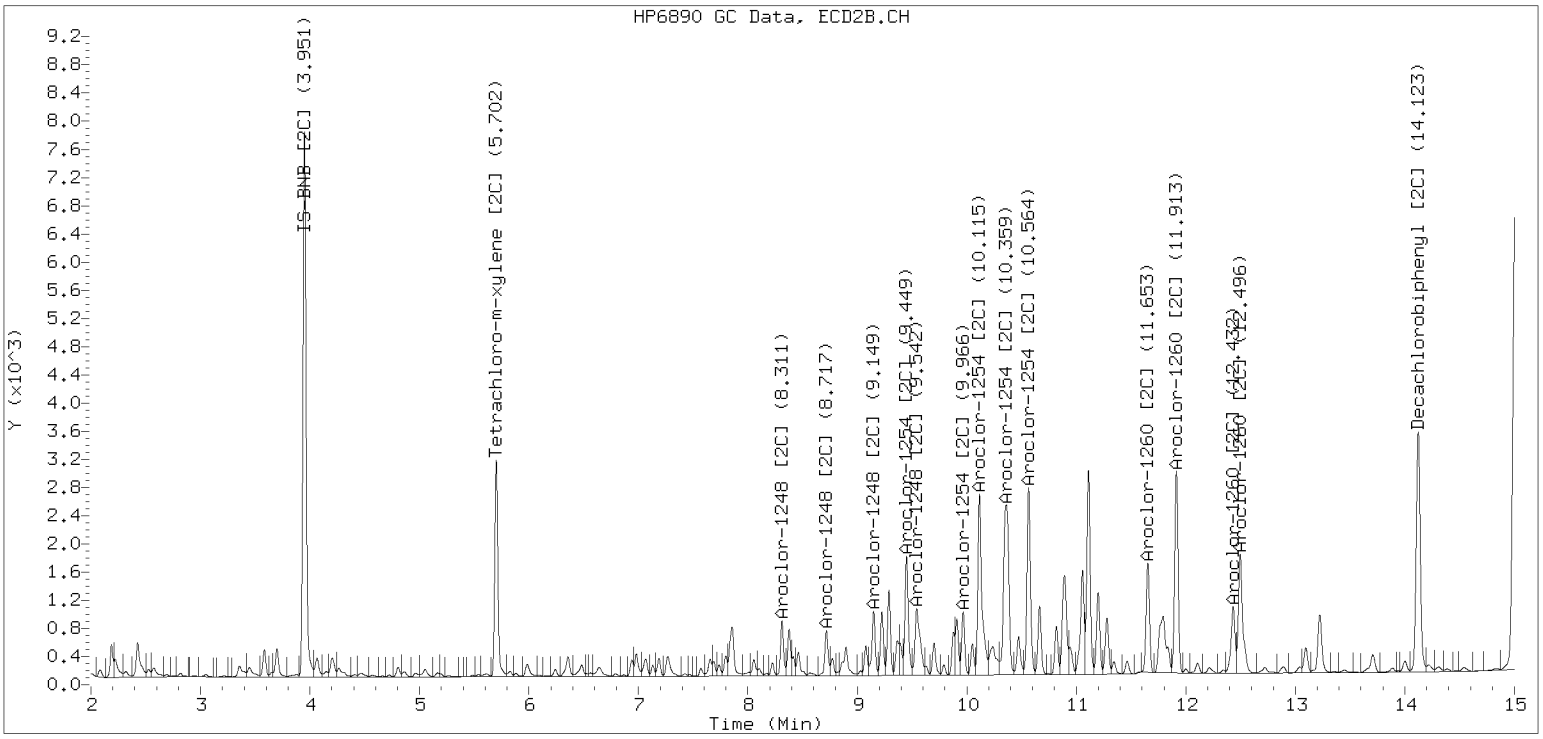
Processed Integration (Before)



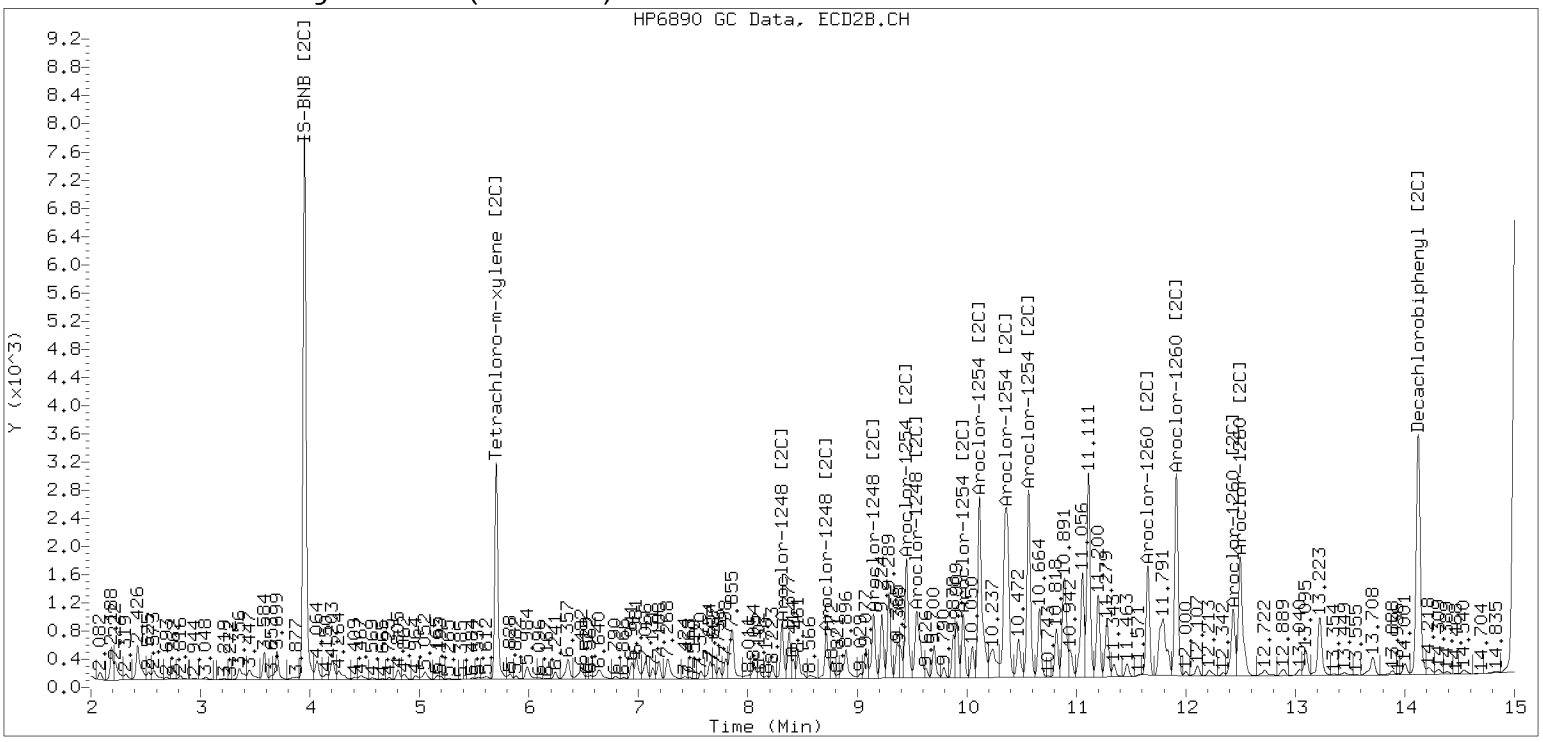
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052375ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-27 B	File ID:	01052376ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 14:44
% Solids:	53.82	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.26 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	41.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	67.1	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	51.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9882*	*7.33*	*91.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9882*	*5.02*	*62.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9882*	*6.82*	*85.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9882*	*5.60*	*70.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052376ECD7.D
Data file 2: /230105.b/230105.b/01052376ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-27
Client ID:
Injection Date: 06-JAN-2023 14:44
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.008	165504	5.701	-0.009	115613	25.2	28.0	10.8	Tetrachloro-m-xylene
13.895	-0.009	150952	14.123	-0.004	169326	36.7	34.2	7.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	464234	3.7
Hexabromobiphenyl	798898	448514	-43.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	300752	20.7
Hexabromobiphenyl	362541	348992	-3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.408	-0.016	32475	162.7	1	8.311	-0.010	25214	205.2
Aroclor-1248	2	8.577	-0.022	23068	90.5	2	8.717	-0.010	21070	163.1
Aroclor-1248	3	8.995	-0.021	79962	174.4	3	9.149	-0.023	30836	196.2
Aroclor-1248	4	9.298	-0.014	90714	403.9	4	9.542	-0.051	52984	287.1
		Total Col1Ave (4 peaks):			207.9		Total Col2Ave (4 peaks):			212.9 RPD = 2
		Corrected Ave (3 peaks):			142.5		Corrected Ave (3 peaks):			188.1 RPD = 28
Aroclor-1254	1	9.298	-0.015	90714	221.9	1	9.448	-0.013	62618	322.9
Aroclor-1254	2	9.373	-0.019	41324	260.0	2	9.966	-0.011	23912	153.4
Aroclor-1254	3	9.672	-0.013	66516	257.7	3	10.115	-0.015	104974	313.3
Aroclor-1254	4	9.797	-0.022	131415	261.1	4	10.363	-0.015	123760	356.6
Aroclor-1254	5	10.132	-0.043	87163	252.7	5	10.564	-0.012	89428	534.3
		Total Col1Ave (5 peaks):			250.7		Total Col2Ave (5 peaks):			336.1 RPD = 29
		Corrected Ave (4 peaks):			248.1		Corrected Ave (4 peaks):			286.5 RPD = 14
Aroclor-1260	1	11.043	-0.013	47682	292.1	1	11.654	-0.009	50669	275.1
Aroclor-1260	2	11.359	-0.014	37616	222.8	2	11.914	-0.013	95569	206.7
Aroclor-1260	3	11.728	-0.018	114385	257.8	3	12.434	-0.010	39070	317.4
Aroclor-1260	4	12.128	-0.022	58067	257.0	4	12.496	-0.012	68274	221.6
Aroclor-1260	5	12.244	-0.012	26228	283.6	NS	---			----
		Total Col1Ave (5 peaks):			262.6		Total Col2Ave (4 peaks):			255.2 RPD = 3
		Corrected Ave (4 peaks):			255.3		Corrected Ave (3 peaks):			234.5 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 2357609 Col1 Total PCB = 0.5 ppm*

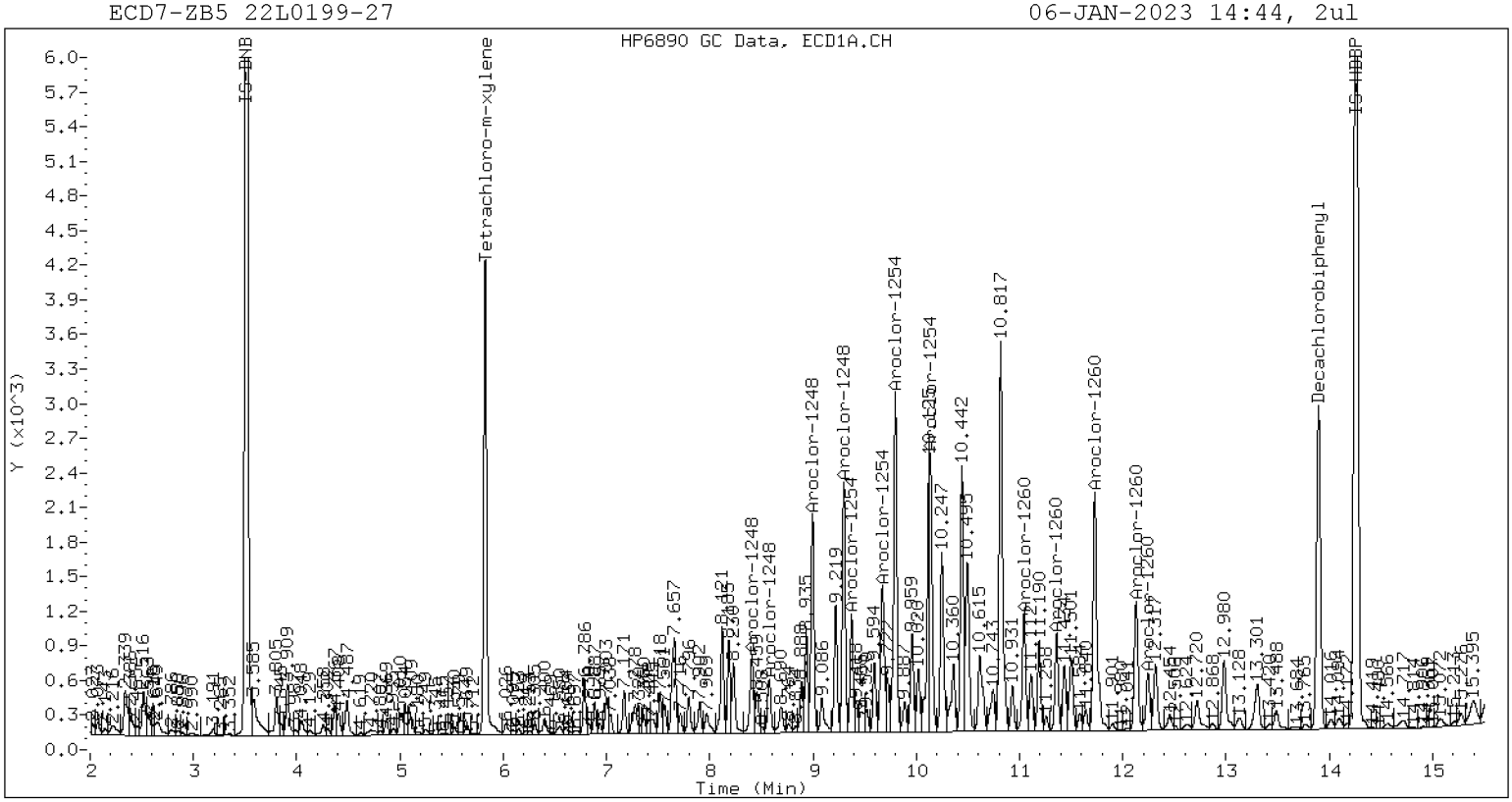
Total PCB Area Col2 (5.810 - 14.028) = 1815248 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

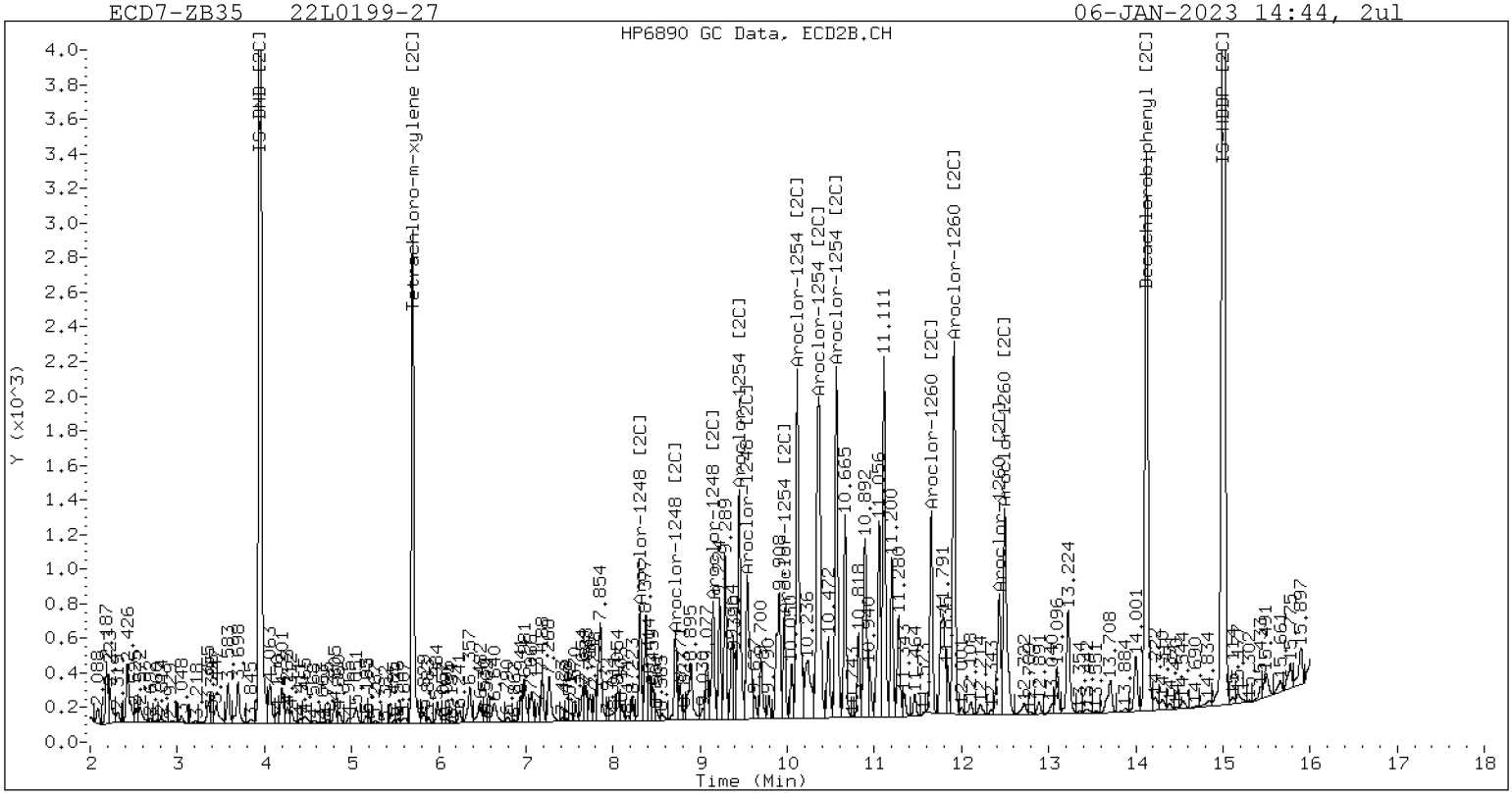
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-27 06-JAN-2023 14:44, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-27 06-JAN-2023 14:44, 2ul

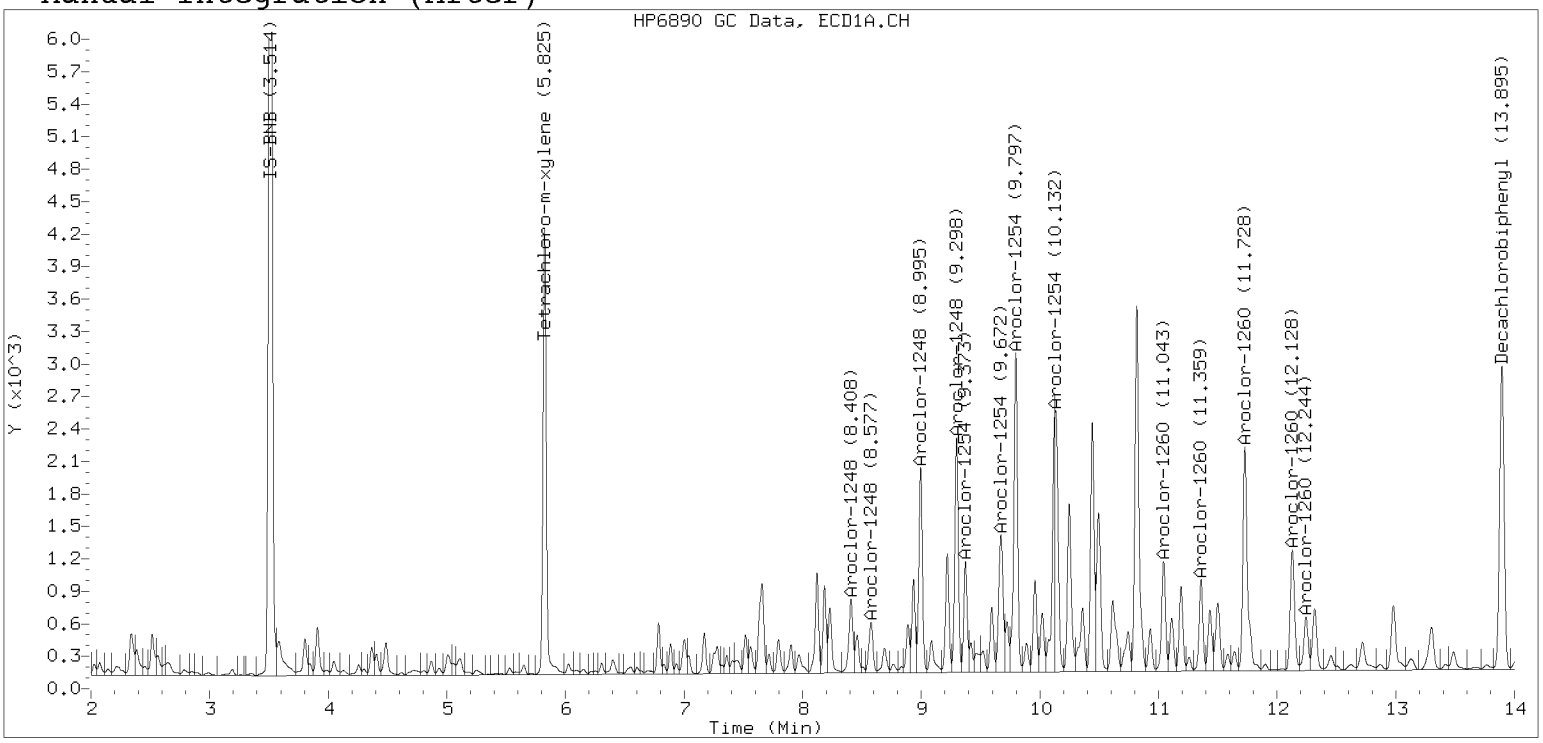


ZB-35 Manual Integration: YES

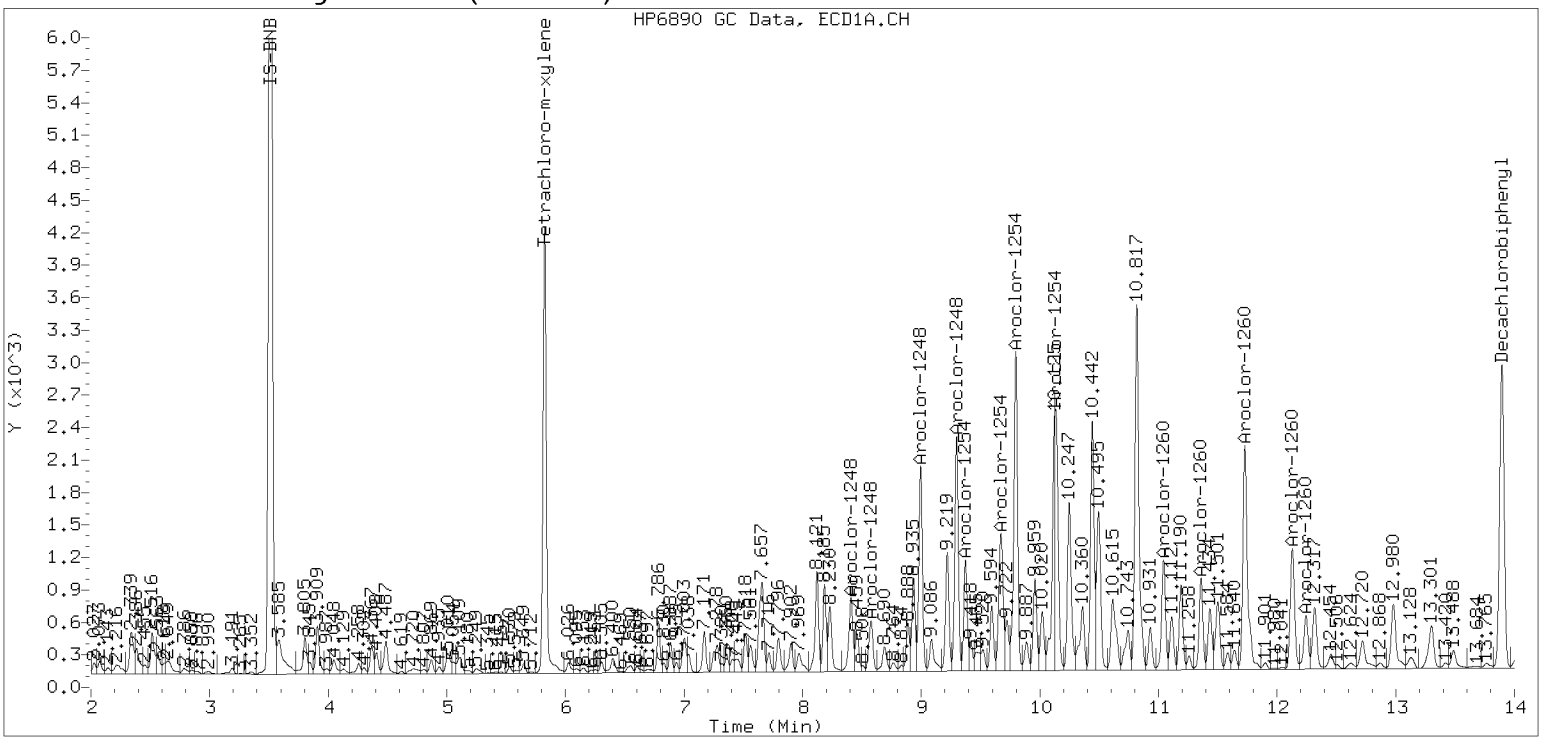
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052376ECD7.D Injection Date: 06-JAN-2023 14:44

Manual Integration (After)



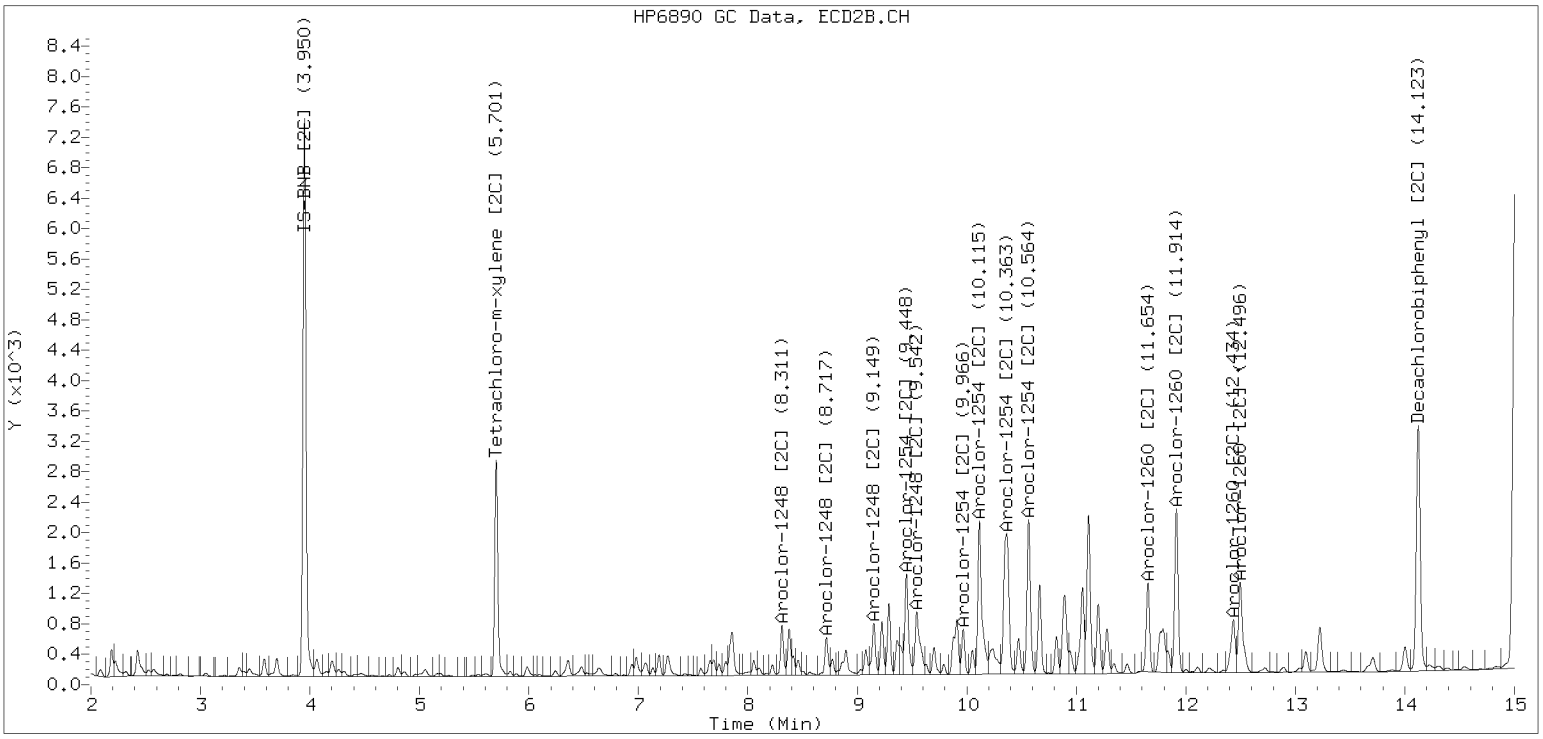
Processed Integration (Before)



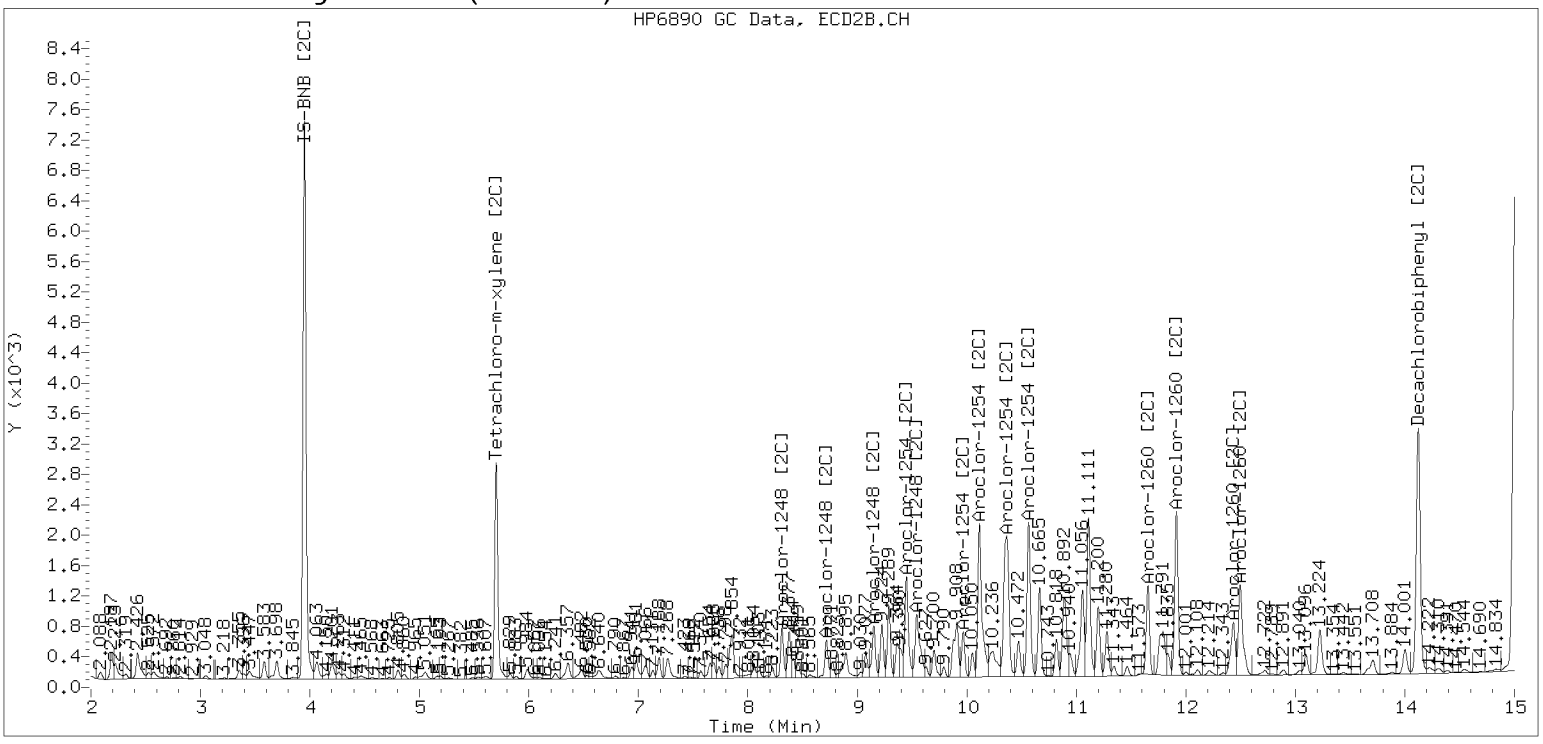
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052376ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-28 B	File ID:	01052377ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 15:05
% Solids:	53.80	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.24 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	63.7	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	94.6	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	76.2	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9980*	*7.58*	*94.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9980*	*4.79*	*59.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9980*	*7.01*	*87.6*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9980*	*5.72*	*71.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052377ECD7.D
Data file 2: /230105.b/230105.b/01052377ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-28
Client ID:
Injection Date: 06-JAN-2023 15:05
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.007	156525	5.702	-0.008	113323	23.9	28.6	17.7	Tetrachloro-m-xylene
13.895	-0.009	146484	14.122	-0.006	163433	37.9	35.1	7.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461232	3.0
Hexabromobiphenyl	798898	421438	-47.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	289209	16.1
Hexabromobiphenyl	362541	328398	-9.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.014	41727	210.4	1	8.312	-0.010	36629	310.0
Aroclor-1248	2	8.577	-0.022	36265	143.2	2	8.717	-0.009	32001	257.5
Aroclor-1248	3	8.995	-0.021	128838	282.9	3	9.149	-0.024	49265	325.9
Aroclor-1248	4	9.298	-0.013	142373	638.0	4	9.542	-0.051	77811	438.5
		Total Col1Ave (4 peaks):			318.6		Total Col2Ave (4 peaks):			330.0 RPD = 4
		Corrected Ave (3 peaks):			212.2		Corrected Ave (3 peaks):			297.8 RPD = 34
Aroclor-1254	1	9.298	-0.014	142373	350.6	1	9.448	-0.012	94088	504.6
Aroclor-1254	2	9.373	-0.019	74848	473.9	2	9.966	-0.011	34467	229.9
Aroclor-1254	3	9.670	-0.015	89913	350.5	3	10.115	-0.015	160785	499.0
Aroclor-1254	4	9.798	-0.021	196090	392.2	4	10.356	-0.022	102698	307.7
Aroclor-1254	5	10.132	-0.043	235403	686.9	5	10.564	-0.012	132752	824.8
		Total Col1Ave (5 peaks):			450.8		Total Col2Ave (5 peaks):			473.2 RPD = 5
		Corrected Ave (4 peaks):			391.8		Corrected Ave (4 peaks):			385.3 RPD = 2
Aroclor-1260	1	11.044	-0.012	71744	467.7	1	11.653	-0.010	73703	425.2
Aroclor-1260	2	11.358	-0.014	53672	338.3	2	11.914	-0.012	138217	317.8
Aroclor-1260	3	11.729	-0.017	150684	361.5	3	12.433	-0.010	50381	435.0
Aroclor-1260	4	12.128	-0.022	83494	393.3	4	12.497	-0.011	100712	347.3
Aroclor-1260	5	12.244	-0.012	39027	449.1	NS	---			----
		Total Col1Ave (5 peaks):			402.0		Total Col2Ave (4 peaks):			381.3 RPD = 5
		Corrected Ave (4 peaks):			385.5		Corrected Ave (3 peaks):			363.4 RPD = 6
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 3430001 Col1 Total PCB = 0.8 ppm*

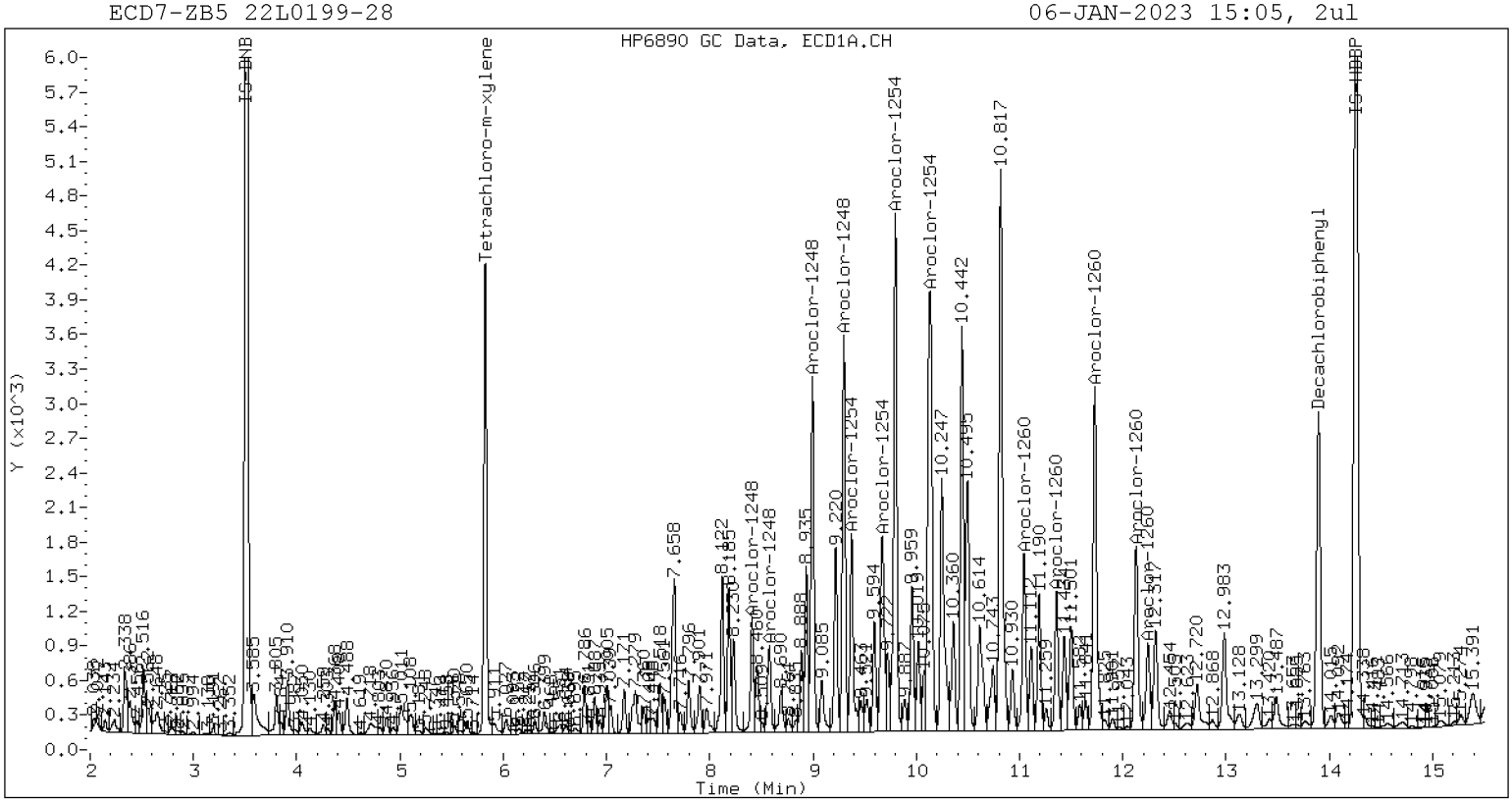
Total PCB Area Col2 (5.810 - 14.028) = 2650786 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

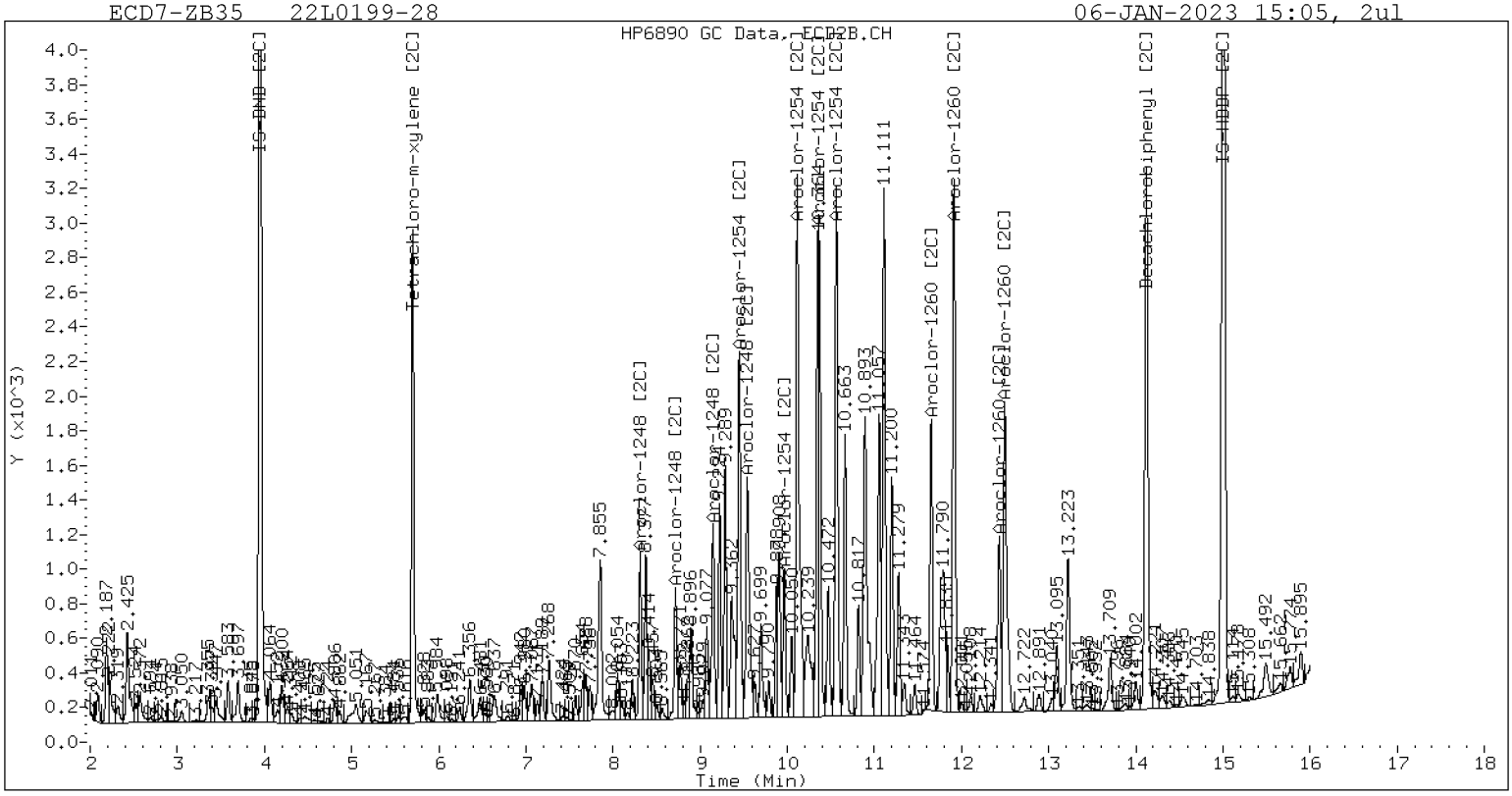
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-28 06-JAN-2023 15:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-28 06-JAN-2023 15:05, 2ul

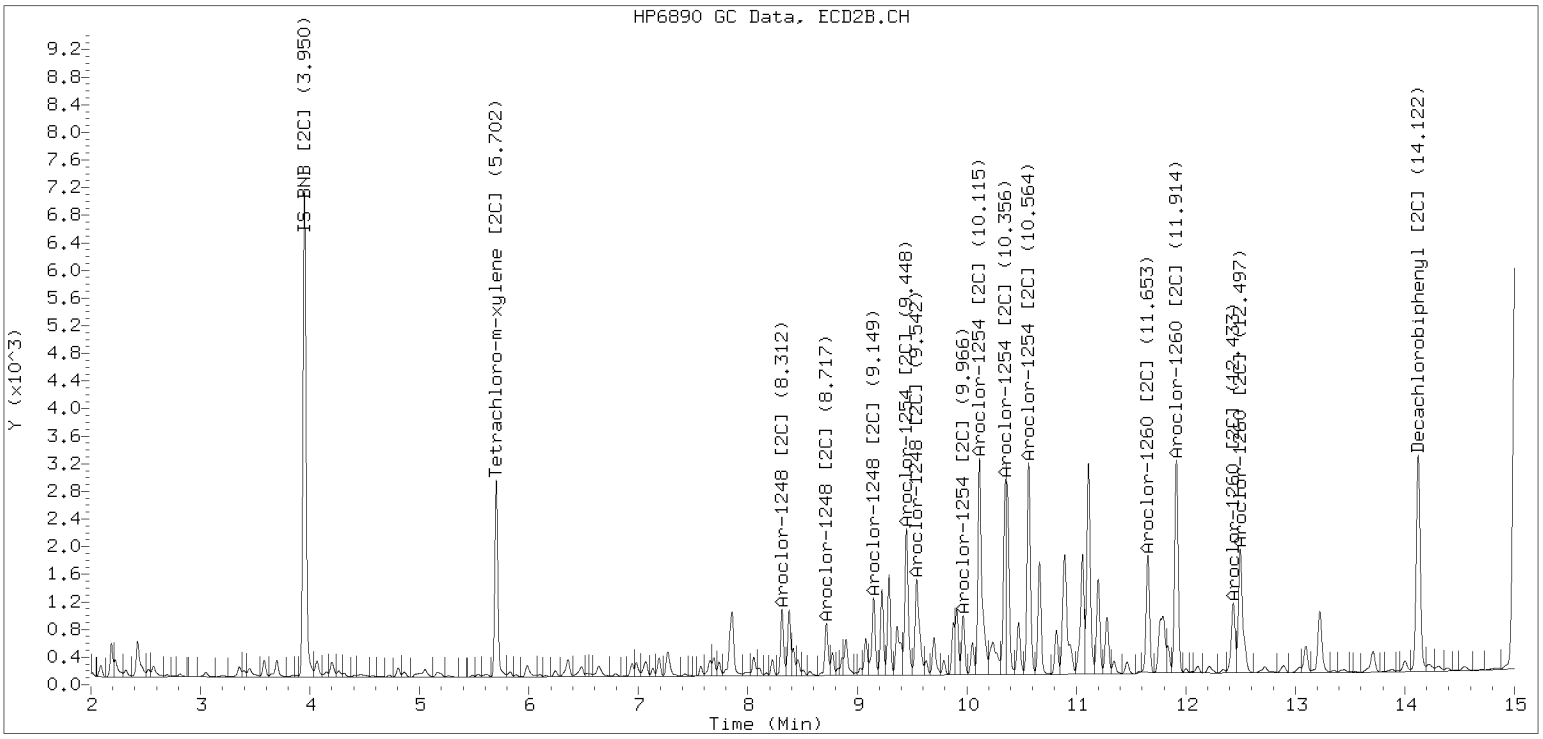


ZB-35 Manual Integration: YES

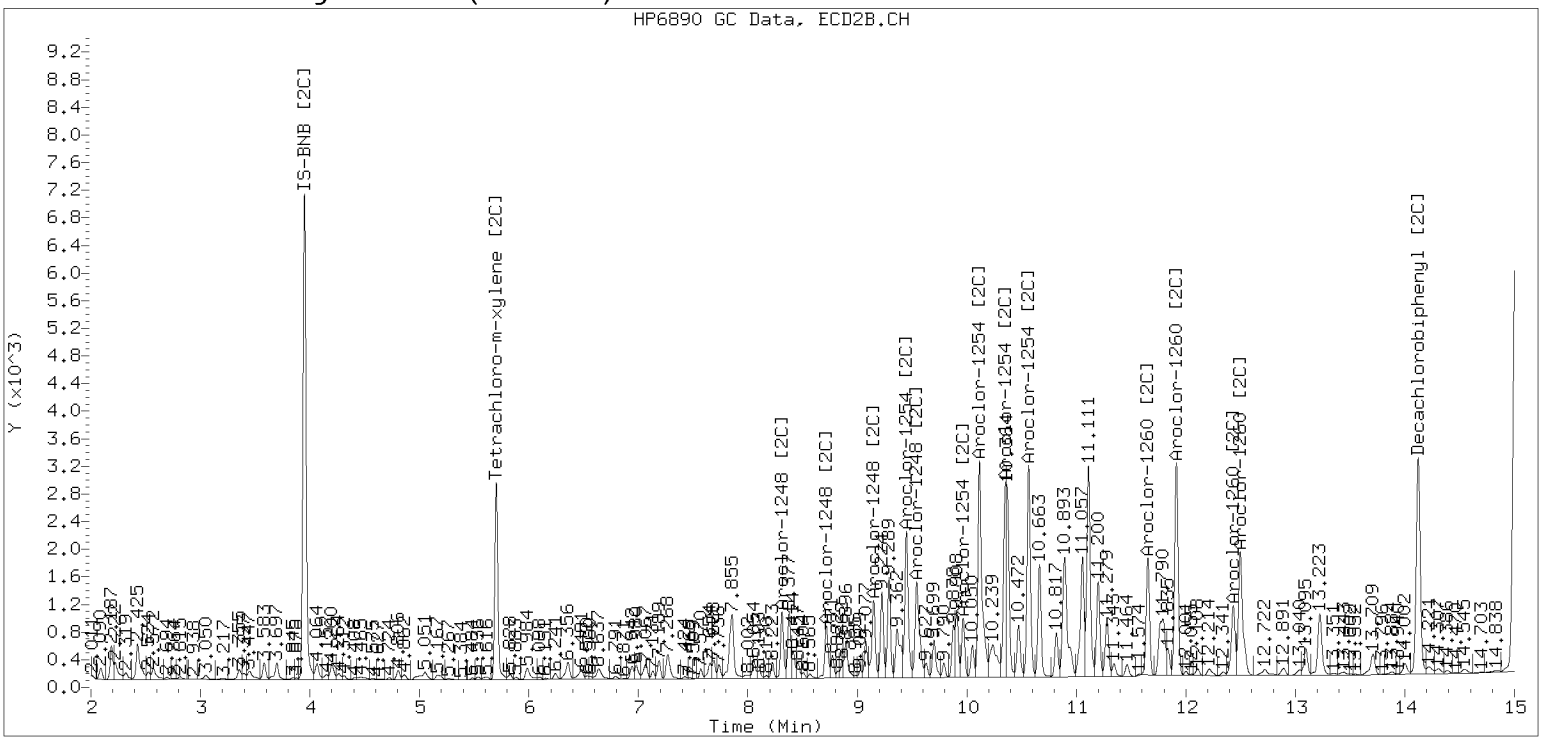
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052377ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-29 B	File ID:	01052378ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 15:26
% Solids:	57.29	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.92 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	120	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	132	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	70.7	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9631*	*8.29*	*104*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9631*	*5.11*	*64.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9631*	*7.64*	*95.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9631*	*5.84*	*73.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052378ECD7.D
Data file 2: /230105.b/230105.b/01052378ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-29
Client ID:
Injection Date: 06-JAN-2023 15:26
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.008	170367	5.701	-0.008	121886	25.7	29.4	13.4	Tetrachloro-m-xylene
13.896	-0.008	172575	14.122	-0.005	191358	41.6	38.4	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	468412	4.6
Hexabromobiphenyl	798898	452125	-43.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	302943	21.6
Hexabromobiphenyl	362541	351283	-3.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.410	-0.014	91224	453.0	1	8.312	-0.010	87320	705.6
Aroclor-1248	2	8.577	-0.022	93554	363.8	2	8.717	-0.010	71251	547.4
Aroclor-1248	3	8.994	-0.021	222750	481.5	3	9.148	-0.024	88800	560.8
Aroclor-1248	4	9.297	-0.014	208542	920.2	4	9.543	-0.050	117001	629.5
	Total Col1Ave (4 peaks):				554.6	Total Col2Ave (4 peaks):				610.8 RPD = 10
	Corrected Ave (3 peaks):				432.8	Corrected Ave (3 peaks):				579.2 RPD = 29
										604.6
Aroclor-1254	1	9.297	-0.015	208542	505.7	1	9.448	-0.013	125471	642.4
Aroclor-1254	2	9.372	-0.020	93153	580.8	2	9.966	-0.011	56095	357.2
Aroclor-1254	3	9.667	-0.018	123986	476.0	3	10.115	-0.016	230496	682.9
Aroclor-1254	4	9.798	-0.021	287096	565.4	4	10.352	-0.026	255556	731.1
Aroclor-1254	5	10.135	-0.040	310779	892.9	5	10.563	-0.012	152615	905.2
	Total Col1Ave (5 peaks):				604.1	Total Col2Ave (5 peaks):				663.7 RPD = 9
	Corrected Ave (4 peaks):				532.0	Corrected Ave (4 peaks):				603.4 RPD = 13
Aroclor-1260	1	11.043	-0.013	68799	418.0	1	11.653	-0.009	82971	447.5
Aroclor-1260	2	11.359	-0.013	56482	331.8	2	11.913	-0.013	138467	297.6
Aroclor-1260	3	11.729	-0.017	148730	332.6	3	12.434	-0.009	44989	363.1
Aroclor-1260	4	12.129	-0.021	85982	377.5	4	12.497	-0.011	96833	312.2
Aroclor-1260	5	12.243	-0.012	36409	390.5	NS	---			----
	Total Col1Ave (5 peaks):				370.1	Total Col2Ave (4 peaks):				355.1 RPD = 4
	Corrected Ave (4 peaks):				358.1	Corrected Ave (3 peaks):				324.3 RPD = 10
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 4911305 Col1 Total PCB = 1.1 ppm*

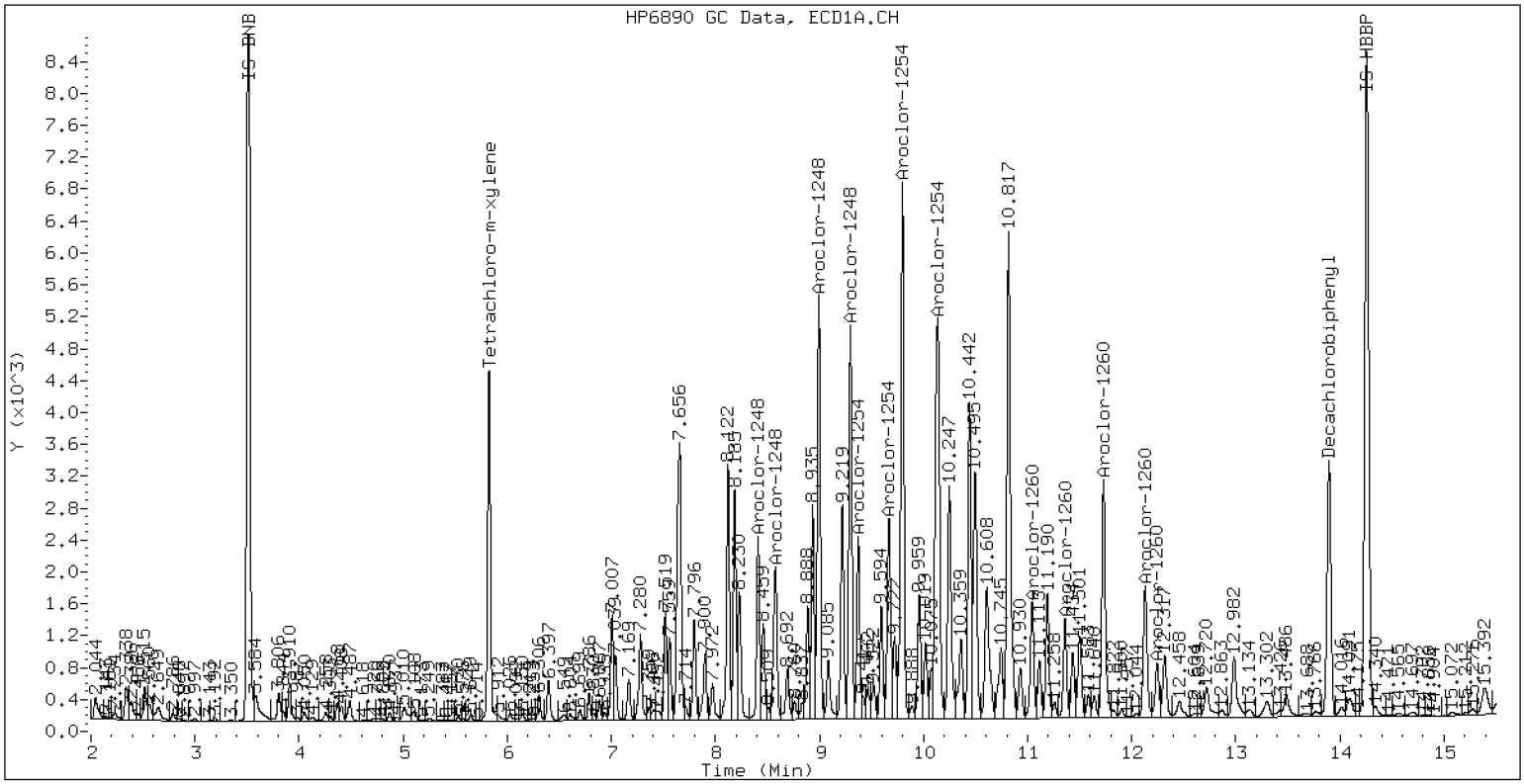
Total PCB Area Col2 (5.810 - 14.028) = 3678475 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

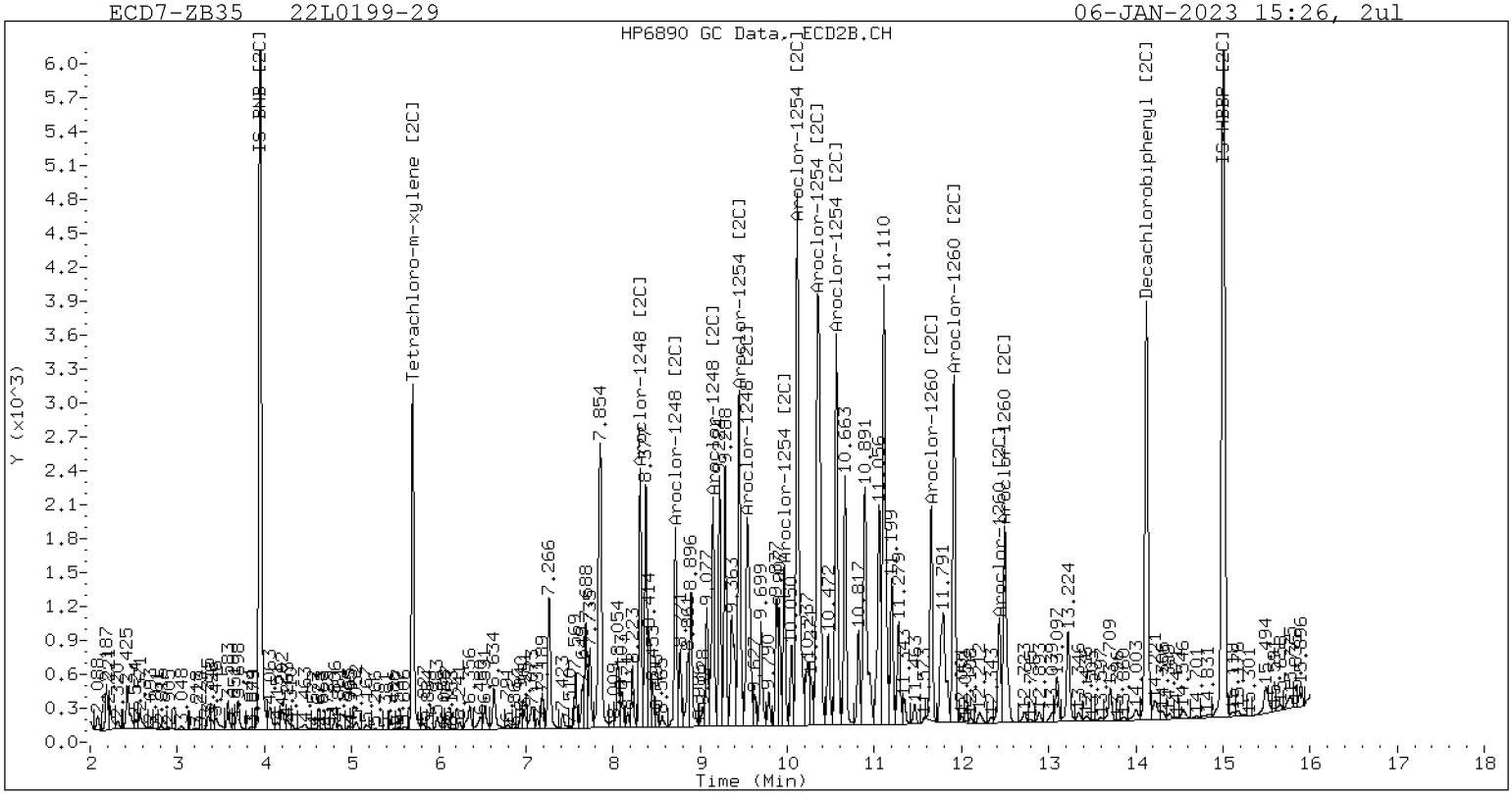
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-29 06-JAN-2023 15:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-29 06-JAN-2023 15:26, 2ul

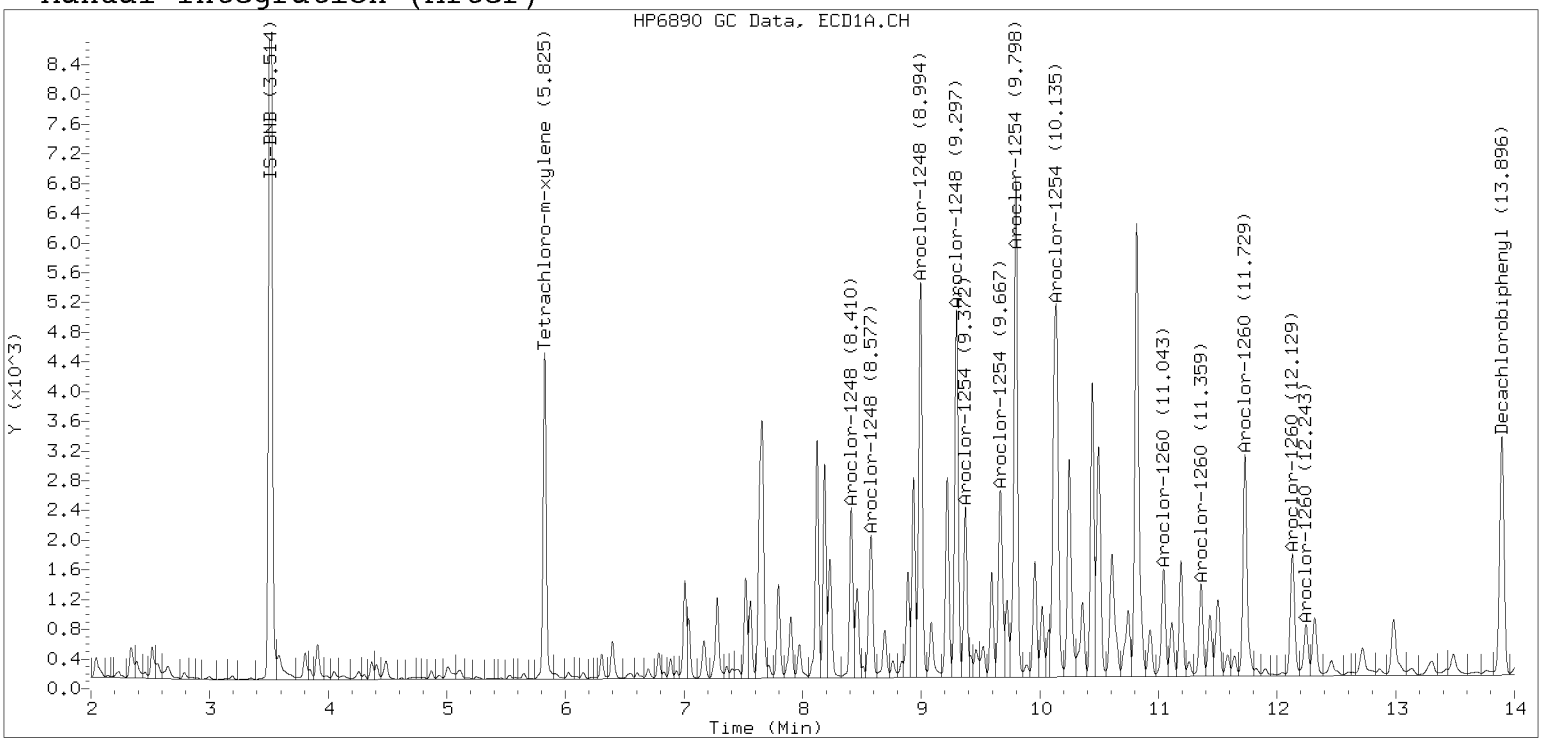


ZB-35 Manual Integration: YES

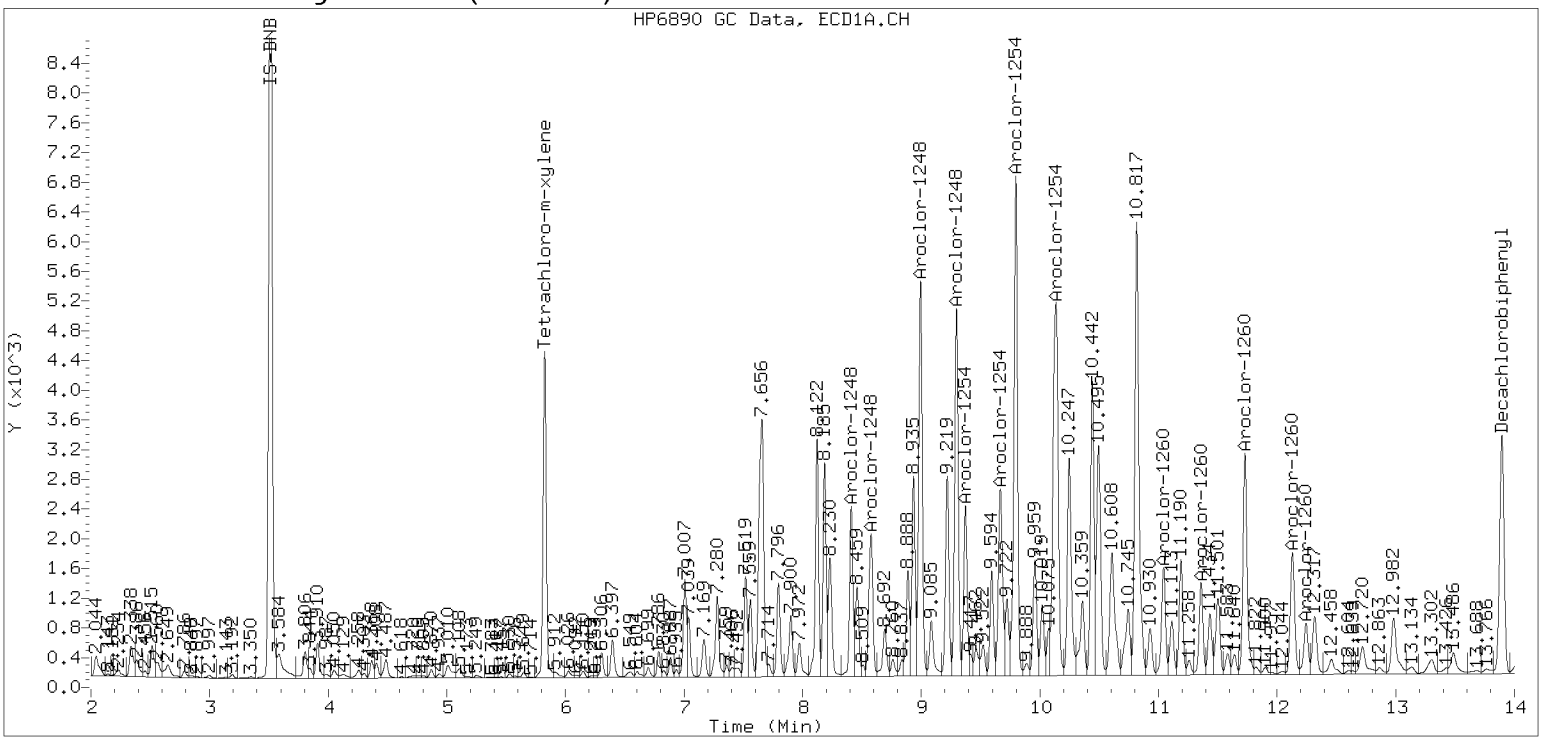
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052378ECD7.D Injection Date: 06-JAN-2023 15:26

Manual Integration (After)



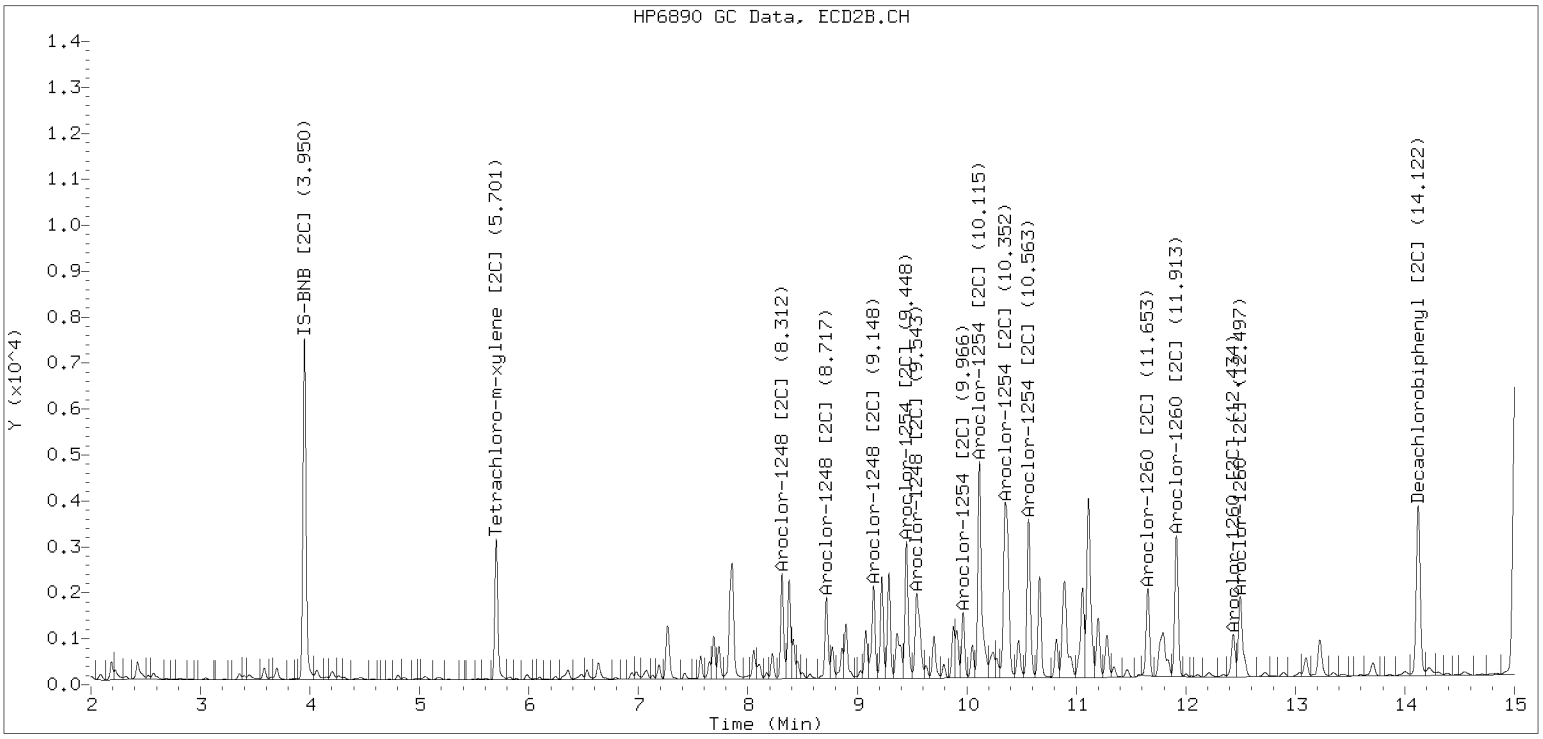
Processed Integration (Before)



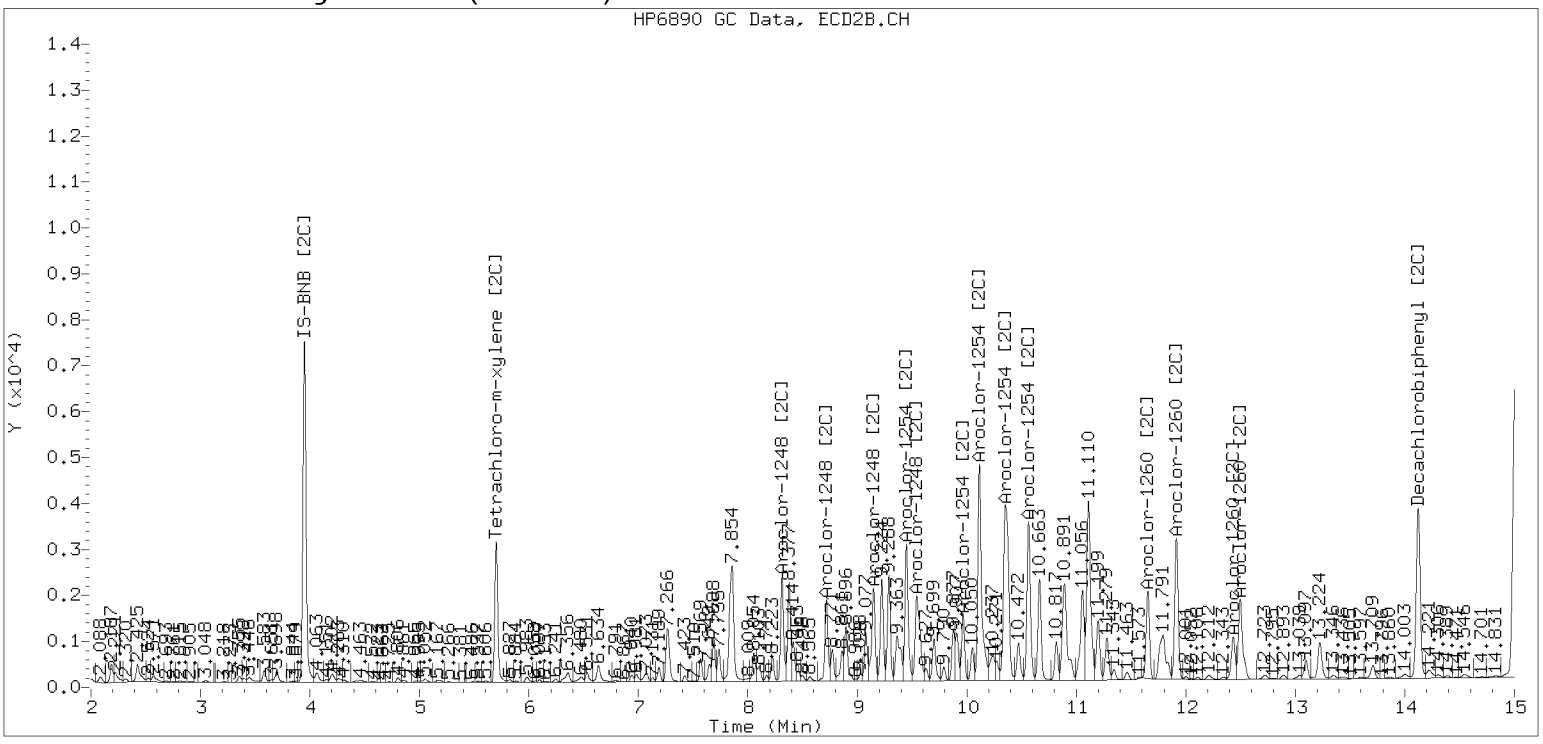
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052378ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-30 B	File ID:	01052379ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 15:47
% Solids:	59.26	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.09 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	20	80.0	31.2	80.0	U
11104-28-2	Aroclor 1221	1	20	80.0	31.2	80.0	U
11141-16-5	Aroclor 1232	1	20	80.0	31.2	80.0	U
53469-21-9	Aroclor 1242	1	20	80.0	31.2	80.0	U
12672-29-6	Aroclor 1248	2	20	2370	31.2	80.0	D
11097-69-1	Aroclor 1254	1	20	1370	31.2	80.0	D
11096-82-5	Aroclor 1260	2	20	384	11.8	80.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0013*	*10.5*	*131*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0013*	*6.97*	*87.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0013*	*9.64*	*121*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0013*	*7.06*	*88.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052379ECD7.D
Data file 2: /230105.b/230105.b/01052379ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-30
Client ID:
Injection Date: 06-JAN-2023 15:47
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 20.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	11278	5.705	-0.005	7537	1.7	1.8	1.3	Tetrachloro-m-xylene
13.896	-0.008	14703	14.124	-0.003	13957	2.6	2.4	8.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	456739	2.0
Hexabromobiphenyl	798898	614040	-23.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	311559	25.1
Hexabromobiphenyl	362541	407859	12.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.414	-0.010	102281	520.8	1	8.315	-0.007	149821	1177.1
Aroclor-1248	2	8.578	-0.021	167942	669.8	2	8.719	-0.007	76916	574.6
Aroclor-1248	3	9.000	-0.016	209661	464.8	3	9.155	-0.018	63730	391.4
Aroclor-1248	4	9.301	-0.011	131522	595.2	4	9.547	-0.046	44076	230.6
		Total Col1Ave (4 peaks):			562.7		Total Col2Ave (4 peaks):			593.4 RPD = 5
		Corrected Ave (3 peaks):			526.9		Corrected Ave (3 peaks):			398.8 RPD = 28
Aroclor-1254	1	9.301	-0.012	131522	327.1	1	9.452	-0.009	63513	316.2
Aroclor-1254	2	9.378	-0.014	66878	427.6	2	9.969	-0.008	29931	185.3
Aroclor-1254	3	9.671	-0.013	62910	247.7	3	10.119	-0.011	144711	416.9
Aroclor-1254	4	9.804	-0.015	202706	409.4	4	10.364	-0.014	132567	368.7
Aroclor-1254	5	10.150	-0.025	99917	294.4	5	10.567	-0.009	59331	342.2
		Total Col1Ave (5 peaks):			341.2		Total Col2Ave (5 peaks):			325.9 RPD = 5
		Corrected Ave (4 peaks):			319.6		Corrected Ave (4 peaks):			303.1 RPD = 5
Aroclor-1260	1	11.048	-0.008	23780	106.4	1	11.656	-0.007	31828	147.8
Aroclor-1260	2	11.362	-0.011	18578	80.4	2	11.917	-0.009	38844	71.9
Aroclor-1260	3	11.733	-0.013	44975	74.0	3	12.436	-0.007	12094	84.1
Aroclor-1260	4	12.135	-0.015	29493	95.3	4	12.500	-0.008	28906	80.3
Aroclor-1260	5	12.247	-0.009	10135	80.0	NS	---			----
		Total Col1Ave (5 peaks):			87.2		Total Col2Ave (4 peaks):			96.0 RPD = 10
		Corrected Ave (4 peaks):			82.4		Corrected Ave (3 peaks):			78.7 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 4127331 Col1 Total PCB = 0.9 ppm*

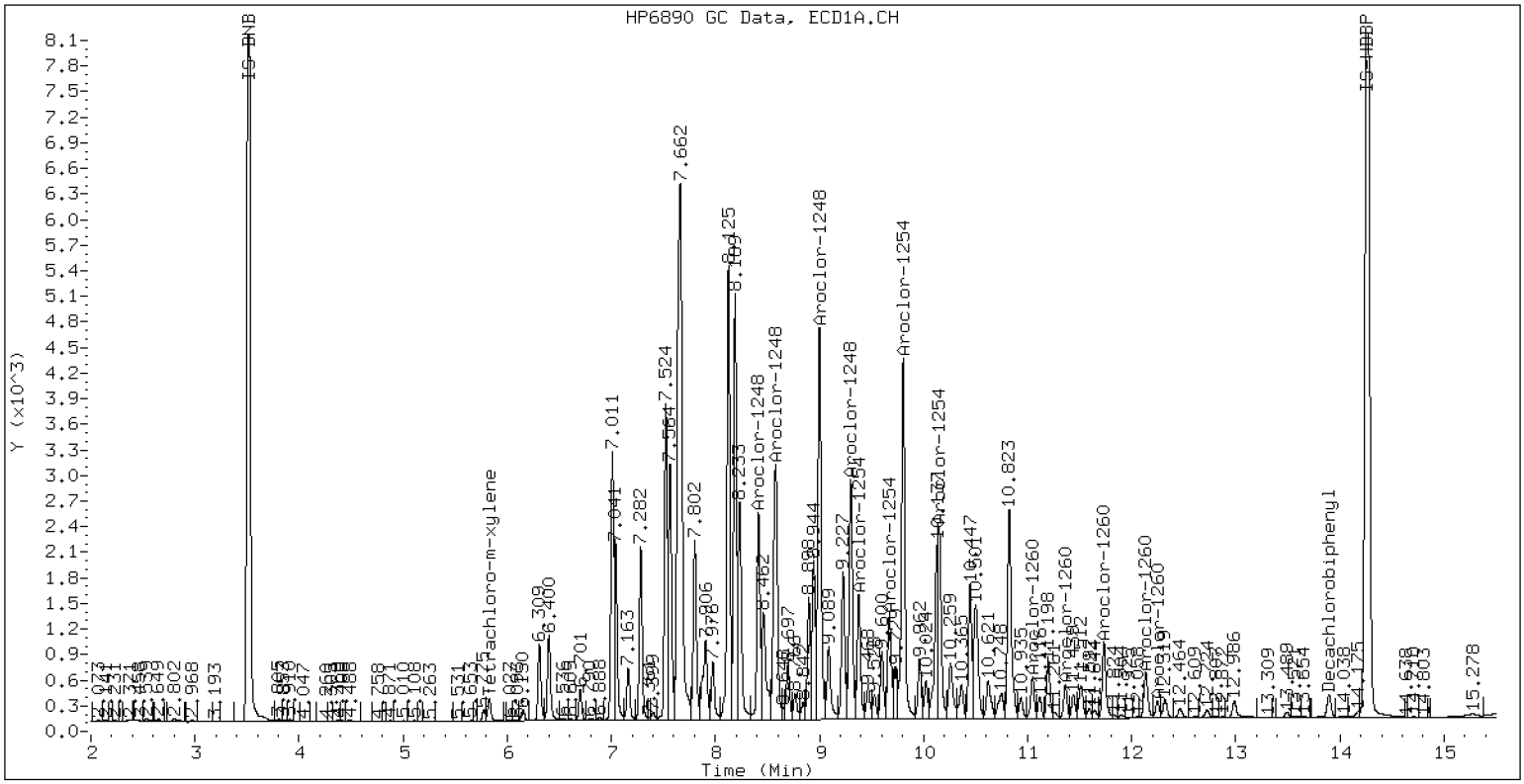
Total PCB Area Col2 (5.810 - 14.028) = 2852318 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

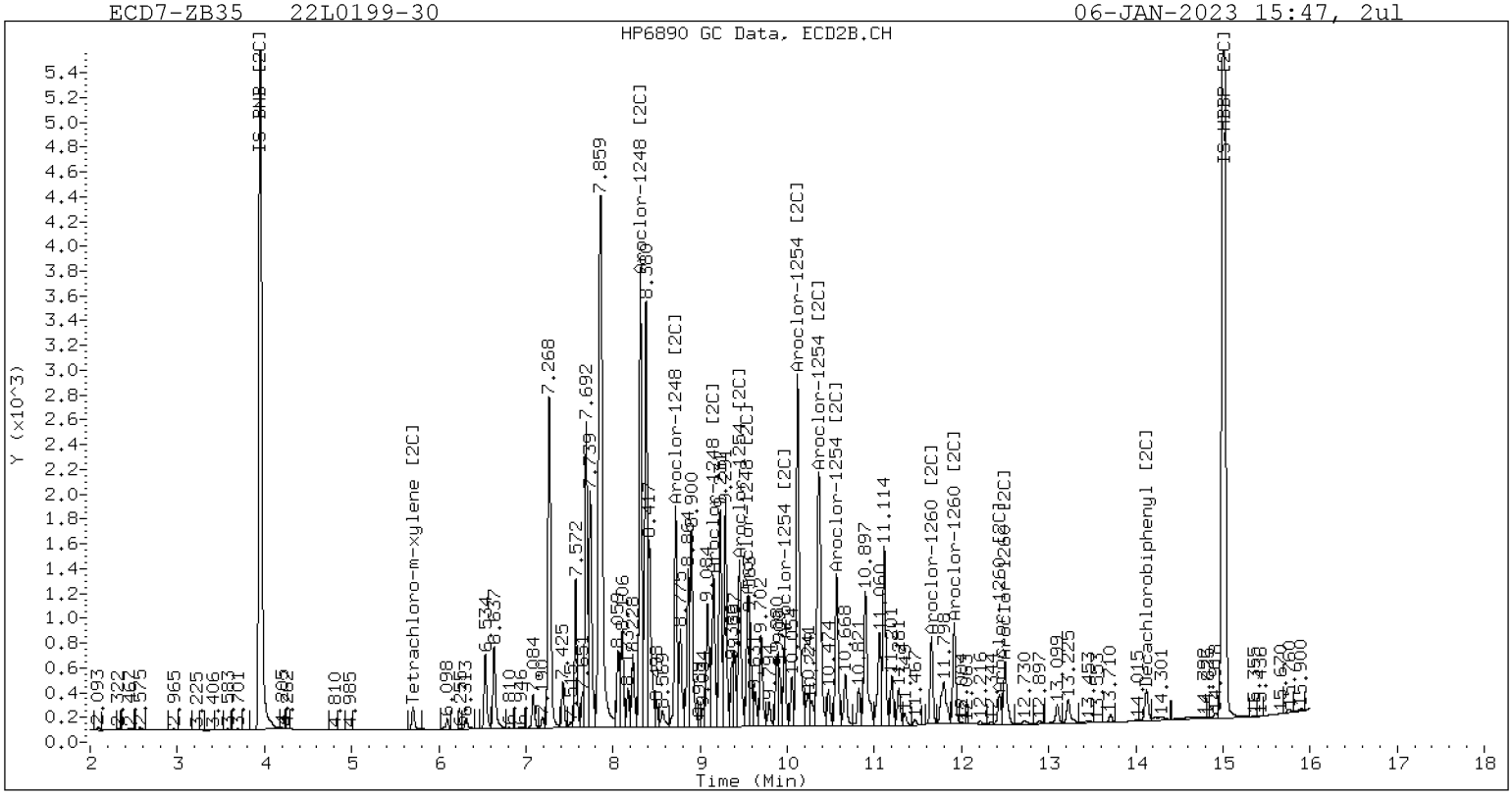
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-30 06-JAN-2023 15:47, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-30 06-JAN-2023 15:47, 2ul

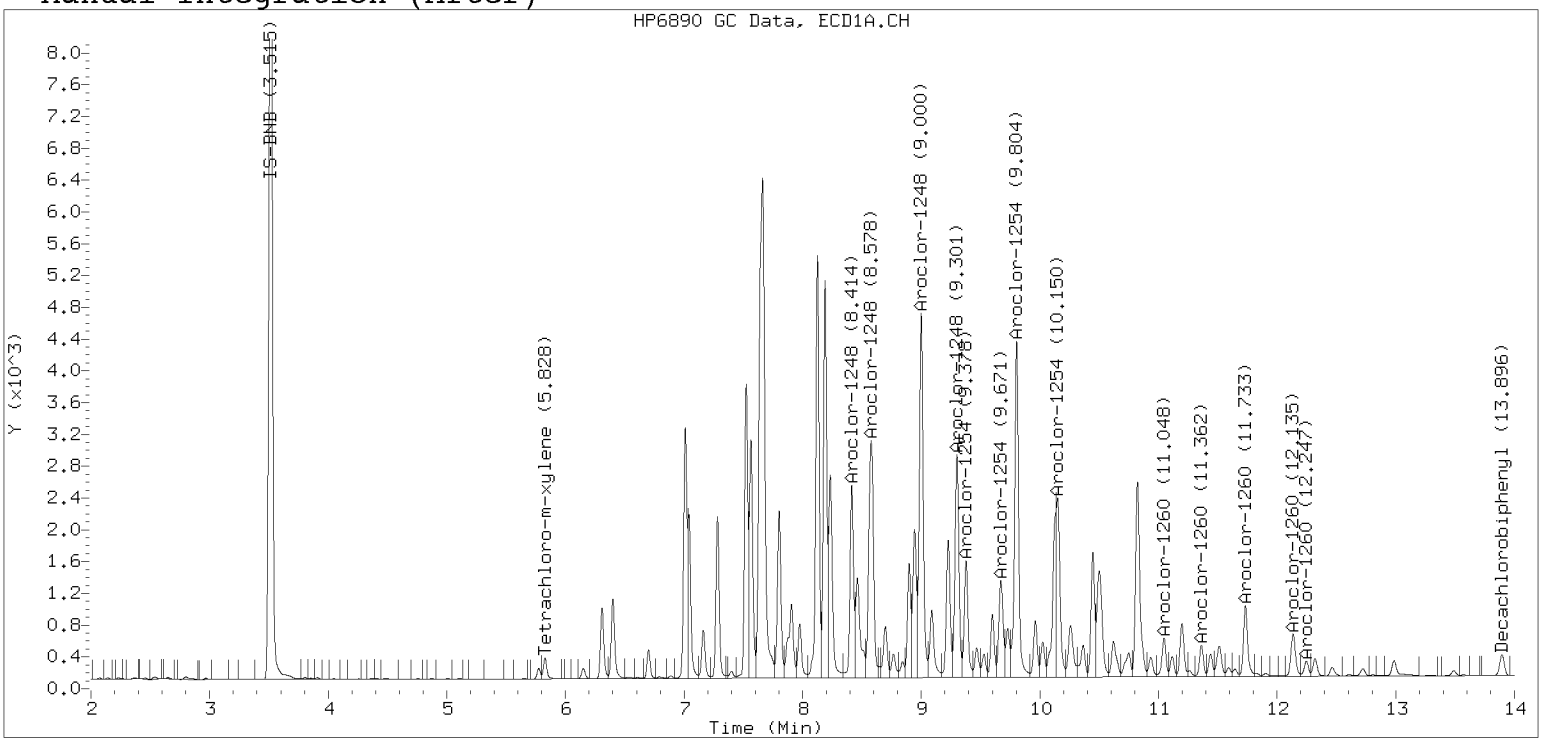


ZB-35 Manual Integration: YES

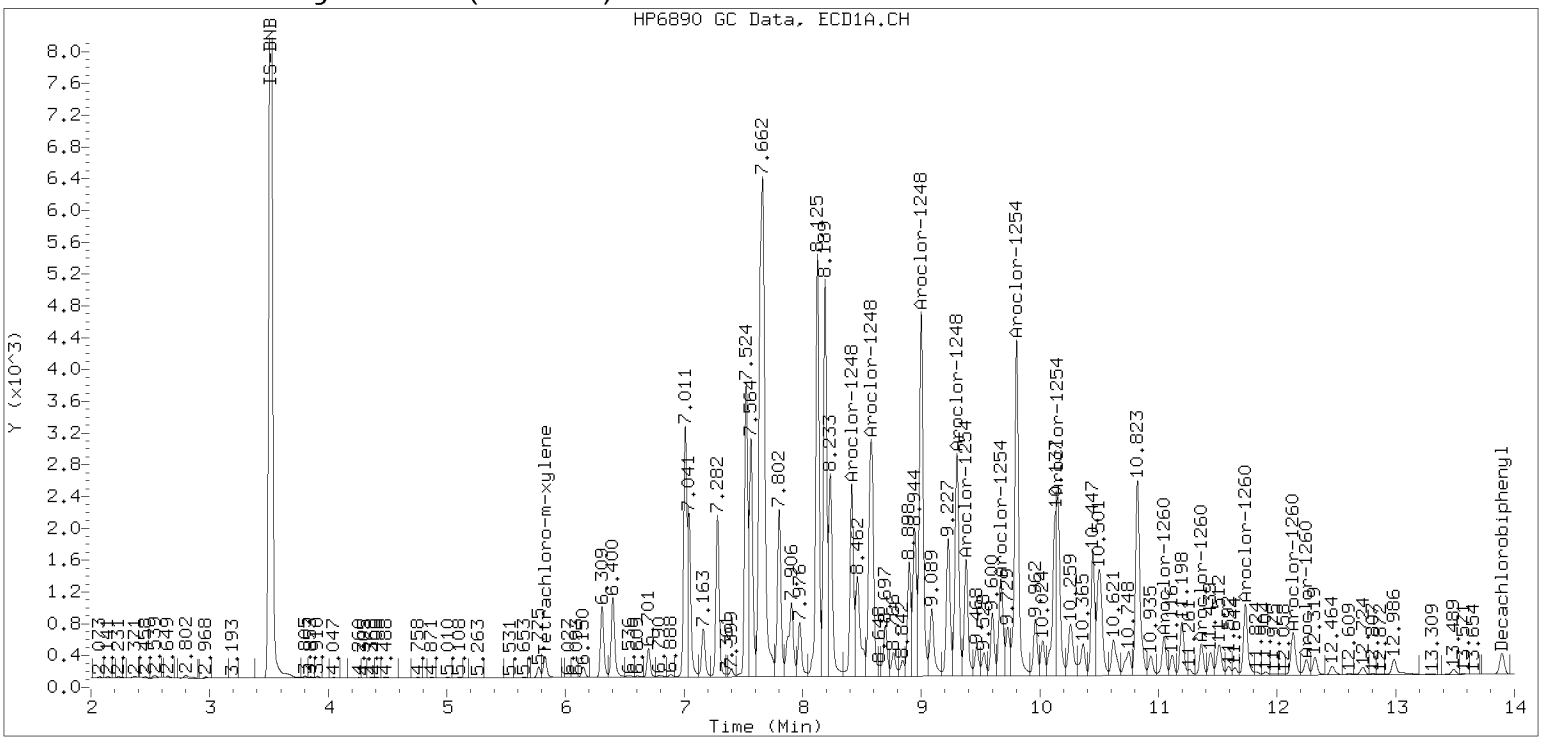
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052379ECD7.D Injection Date: 06-JAN-2023 15:47

Manual Integration (After)



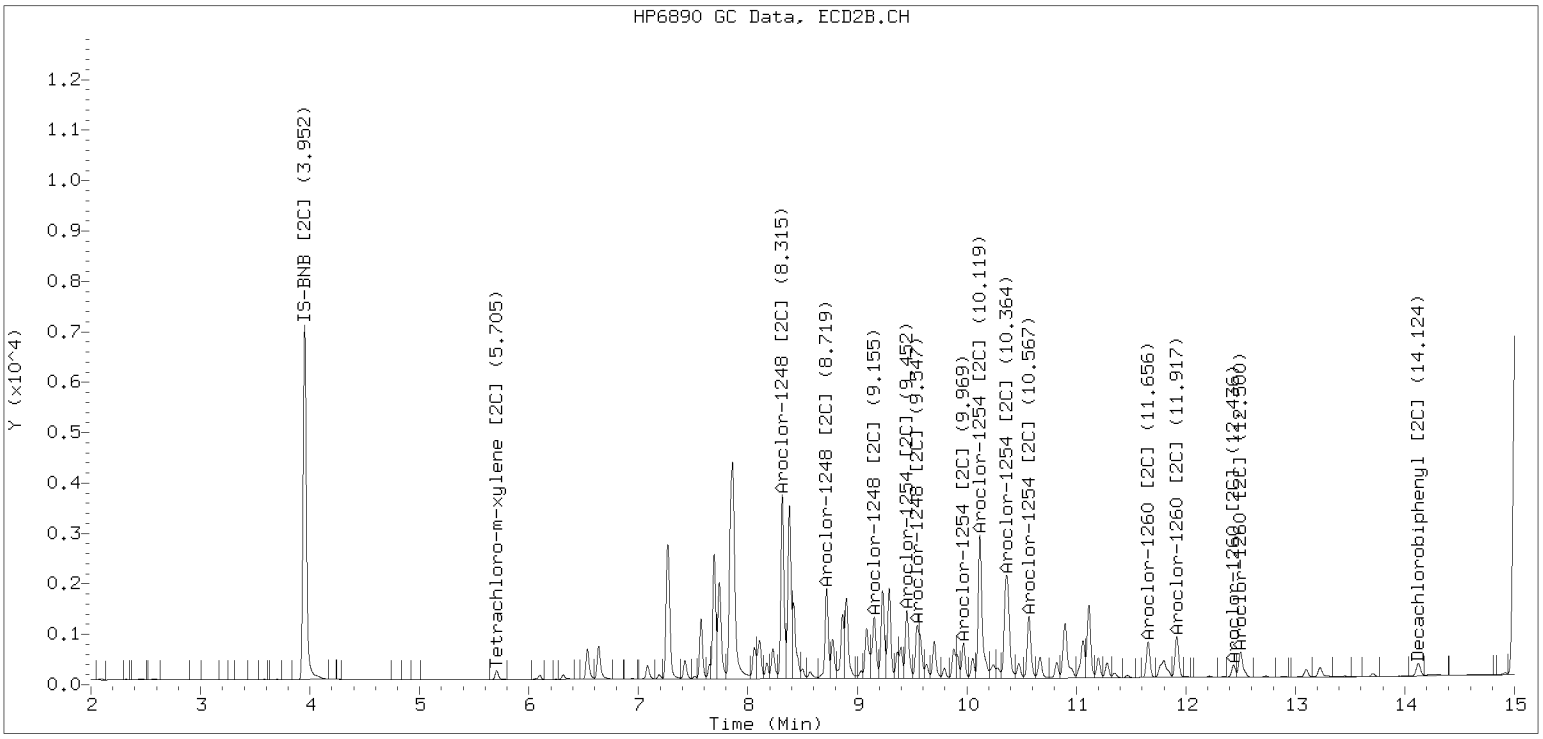
Processed Integration (Before)



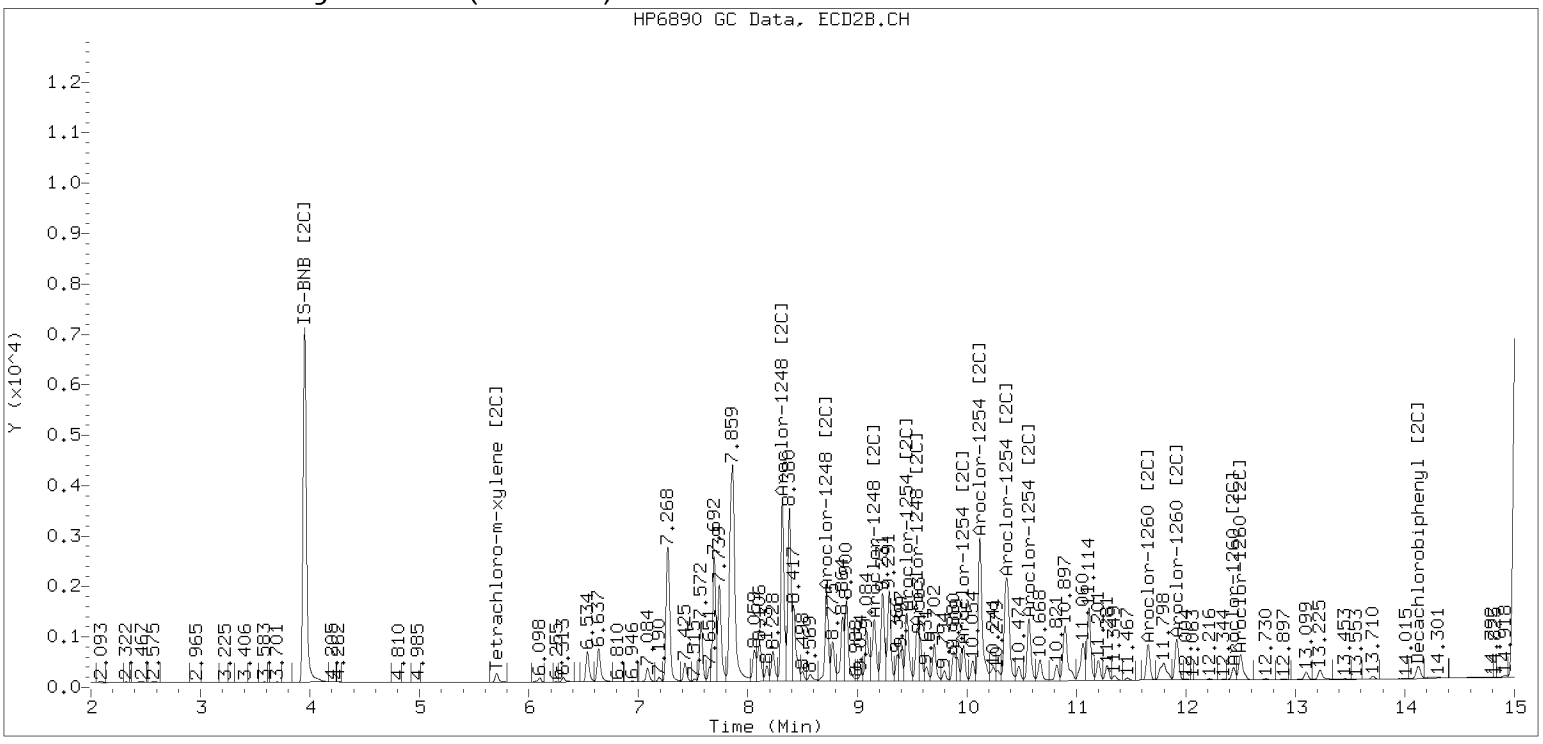
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052379ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-31 B	File ID:	01032309ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/03/23 11:06
% Solids:	68.45	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.26 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	34.4	13.4	34.4	U
11104-28-2	Aroclor 1221	1	10	34.4	13.4	34.4	U
11141-16-5	Aroclor 1232	1	10	34.4	13.4	34.4	U
53469-21-9	Aroclor 1242	1	10	34.4	13.4	34.4	U
12672-29-6	Aroclor 1248	1	10	1140	13.4	34.4	P1, D
11097-69-1	Aroclor 1254	1	10	724	13.4	34.4	D
11096-82-5	Aroclor 1260	1	10	142	5.1	34.4	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*6.8717*	*10.7*	*155*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*6.8717*	*8.65*	*126*	*44 - 120*	*

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032309ECD7.D
Data file 2: /230103.b/230103.b/01032309ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-31RE1
Client ID:
Injection Date: 03-JAN-2023 11:06
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.004	30857	5.705	-0.003	19535	5.0	4.9	2.3	Tetrachloro-m-xylene
13.897	-0.006	40798	14.125	-0.005	33186	6.2	5.2	17.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	432669	-3.3
Hexabromobiphenyl	798898	715617	-10.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	289807	16.3
Hexabromobiphenyl	362541	448272	23.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.014	118058	634.6	1	8.316	-0.005	572596	4836.4
Aroclor-1248	2	8.570	-0.034	434425	1829.0	2	8.720	-0.006	86267	692.8
Aroclor-1248	3	9.001	-0.022	313387	733.4	3	9.155	-0.016	59125	390.3
Aroclor-1248	4	9.300	-0.011	131504	628.2	4	9.633	0.042	26658	149.9
	Total Col1Ave (4 peaks):				956.3	Total Col2Ave (4 peaks):				1517.4 RPD = 45*
	Corrected Ave (3 peaks):				665.4	Corrected Ave (3 peaks):				411.0 RPD = 47*
Aroclor-1254	1	9.300	-0.014	131504	345.2	1	9.453	-0.008	55816	298.7
Aroclor-1254	2	9.378	-0.016	64144	433.0	2	9.971	-0.007	22588	150.4
Aroclor-1254	3	9.670	-0.016	50552	210.1	3	10.119	-0.010	146345	453.2
Aroclor-1254	4	9.805	-0.016	244290	520.9	4	10.370	-0.008	133896	400.4
Aroclor-1254	5	10.129	-0.046	192373	598.4	5	10.568	-0.008	51309	318.1
	Total Col1Ave (5 peaks):				421.5	Total Col2Ave (5 peaks):				324.2 RPD = 26
	Corrected Ave (4 peaks):				377.3	Corrected Ave (4 peaks):				291.9 RPD = 26
Aroclor-1260	1	11.047	-0.015	26622	102.2	1	11.658	-0.005	27110	114.6
Aroclor-1260	2	11.363	-0.014	18925	70.2	2	11.917	-0.008	36017	60.7
Aroclor-1260	3	11.733	-0.019	45409	64.1	3	12.438	-0.006	13636	86.2
Aroclor-1260	4	12.135	-0.023	30053	83.4	4	12.501	-0.008	29882	75.5
Aroclor-1260	5	12.248	-0.014	13946	94.5	NS	---			----
	Total Col1Ave (5 peaks):				82.9	Total Col2Ave (4 peaks):				84.2 RPD = 2
	Corrected Ave (4 peaks):				78.1	Corrected Ave (3 peaks):				74.1 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 10525691 Col1 Total PCB = 2.5 ppm*

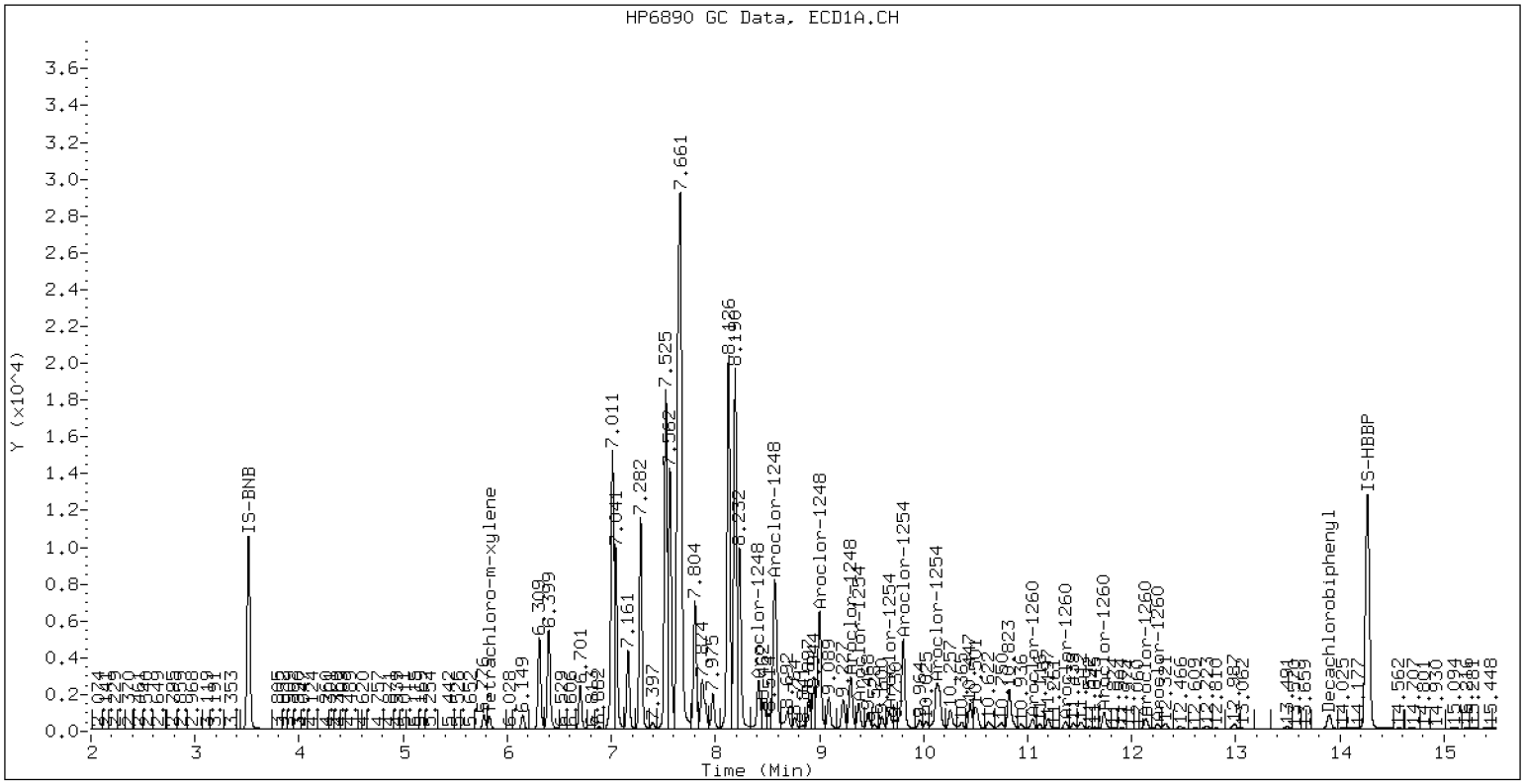
Total PCB Area Col2 (5.808 - 14.029) = 7213959 Col2 Total PCB = 2.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

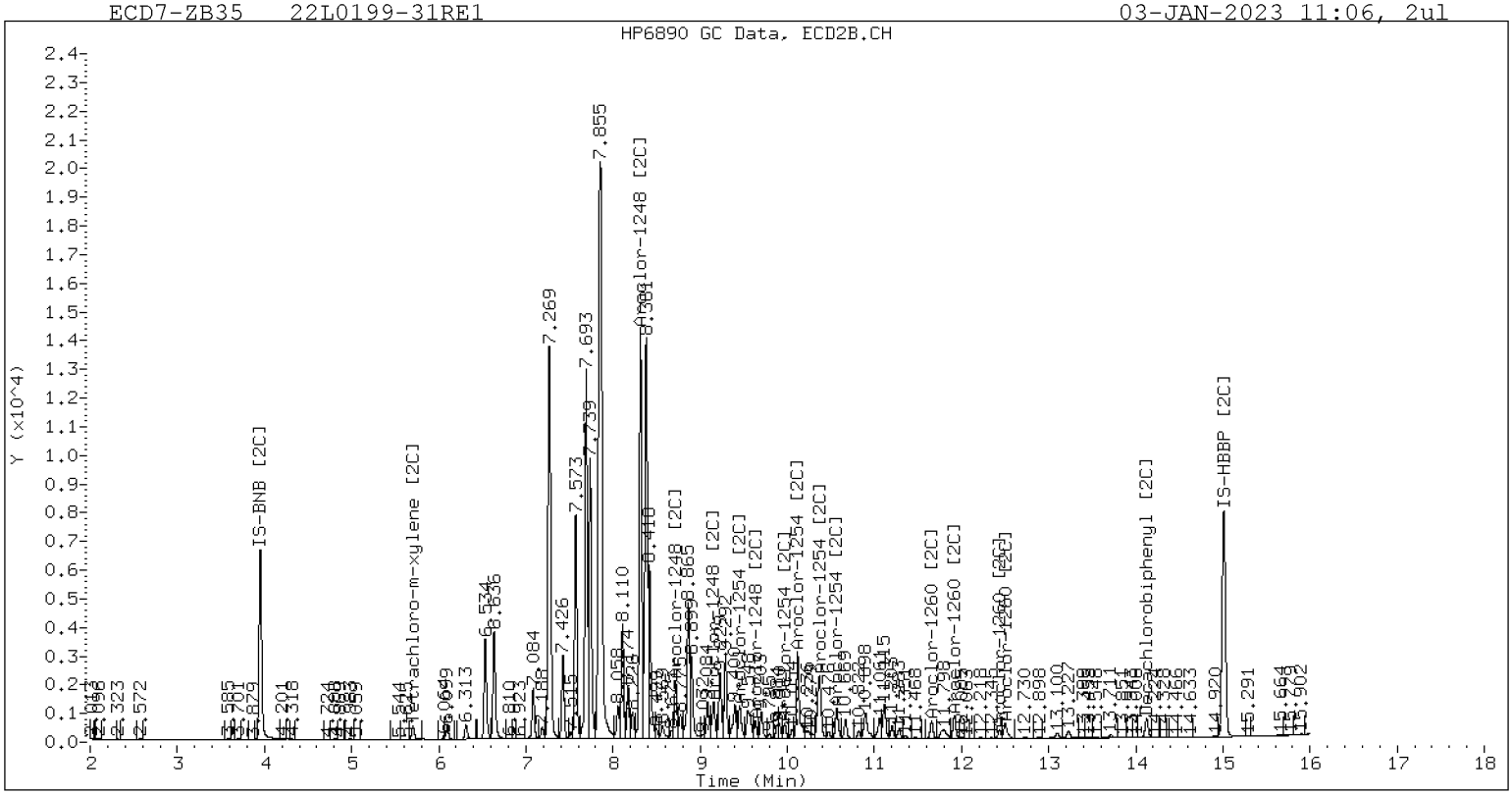
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-31RE1 03-JAN-2023 11:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-31RE1 03-JAN-2023 11:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-32 B	File ID:	01032310ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/03/23 11:27
% Solids:	72.98	Preparation:	EPA 3546 (Microwave)	Initial/Final:	13.17 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	26.0	10.1	26.0	U
11104-28-2	Aroclor 1221	1	5	26.0	10.1	26.0	U
11141-16-5	Aroclor 1232	1	5	26.0	10.1	26.0	U
53469-21-9	Aroclor 1242	1	5	26.0	10.1	26.0	U
12672-29-6	Aroclor 1248	2	5	384	10.1	26.0	D
11097-69-1	Aroclor 1254	1	5	474	10.1	26.0	D
11096-82-5	Aroclor 1260	1	5	199	3.8	26.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*10.404*	*13.9*	*133*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*10.404*	*10.8*	*104*	*44 - 120*	
Decachlorobiphenyl	*2*	*10.404*	*12.1*	*117*	*40 - 126*	
Tetrachlorometaxylene	*2*	*10.404*	*11.4*	*110*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032310ECD7.D
Data file 2: /230103.b/230103.b/01032310ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-32RE1
Client ID:
Injection Date: 03-JAN-2023 11:27
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.004	52457	5.704	-0.004	35611	8.3	8.8	5.4	Tetrachloro-m-xylene
13.896	-0.007	68586	14.125	-0.005	59694	10.7	9.3	13.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	444269	-0.8
Hexabromobiphenyl	798898	700693	-12.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	295410	18.6
Hexabromobiphenyl	362541	450294	24.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.015	40431	211.7	1	8.315	-0.006	56211	465.8
Aroclor-1248	2	8.580	-0.024	39874	163.5	2	8.720	-0.005	29744	234.3
Aroclor-1248	3	9.000	-0.022	114141	260.2	3	9.155	-0.016	31267	202.5
Aroclor-1248	4	9.301	-0.010	109942	511.5	4	9.545	-0.047	50542	278.9
		Total Col1Ave (4 peaks):			286.7		Total Col2Ave (4 peaks):			295.4 RPD = 3
		Corrected Ave (3 peaks):			211.8		Corrected Ave (3 peaks):			238.6 RPD = 12
Aroclor-1254	1	9.301	-0.013	109942	281.1	1	9.452	-0.009	61787	324.4
Aroclor-1254	2	9.377	-0.016	55988	368.0	2	9.970	-0.008	23911	156.1
Aroclor-1254	3	9.672	-0.015	56981	230.6	3	10.119	-0.010	114753	348.6
Aroclor-1254	4	9.803	-0.018	161789	336.0	4	10.371	-0.008	141752	415.8
Aroclor-1254	5	10.126	-0.049	200749	608.1	5	10.567	-0.009	83284	506.6
		Total Col1Ave (5 peaks):			364.8		Total Col2Ave (5 peaks):			350.3 RPD = 4
		Corrected Ave (4 peaks):			303.9		Corrected Ave (4 peaks):			311.3 RPD = 2
Aroclor-1260	1	11.047	-0.015	51013	200.0	1	11.656	-0.006	43059	181.2
Aroclor-1260	2	11.361	-0.016	36441	138.1	2	11.916	-0.010	70674	118.5
Aroclor-1260	3	11.733	-0.019	86352	124.6	3	12.436	-0.008	24976	157.3
Aroclor-1260	4	12.133	-0.025	47770	135.3	4	12.500	-0.010	50464	126.9
Aroclor-1260	5	12.246	-0.016	23874	165.2	NS	---			----
		Total Col1Ave (5 peaks):			152.7		Total Col2Ave (4 peaks):			146.0 RPD = 4
		Corrected Ave (4 peaks):			140.8		Corrected Ave (3 peaks):			134.2 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.803) = 2487526 Col1 Total PCB = 0.6 ppm*

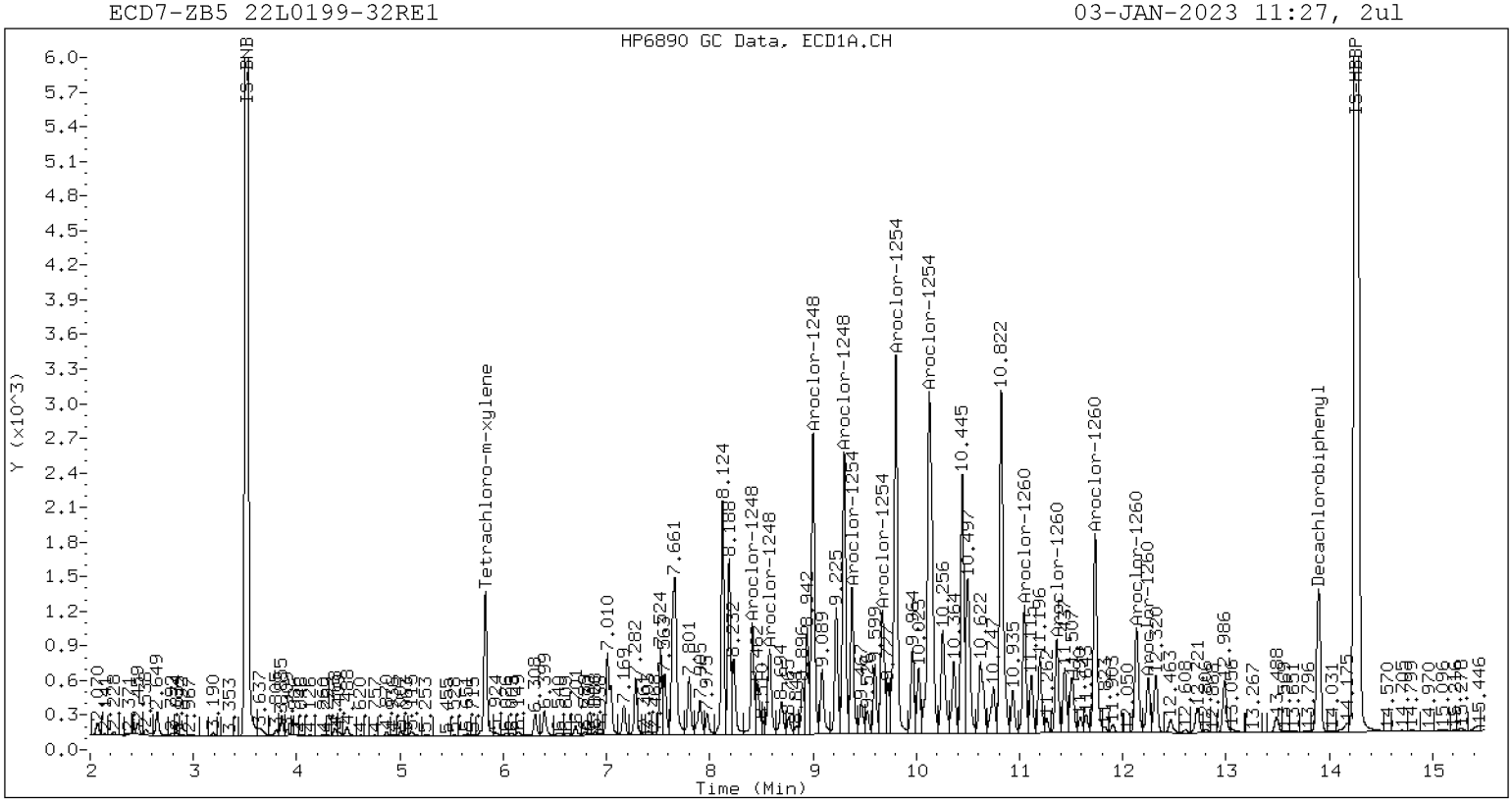
Total PCB Area Col2 (5.808 - 14.029) = 1780274 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

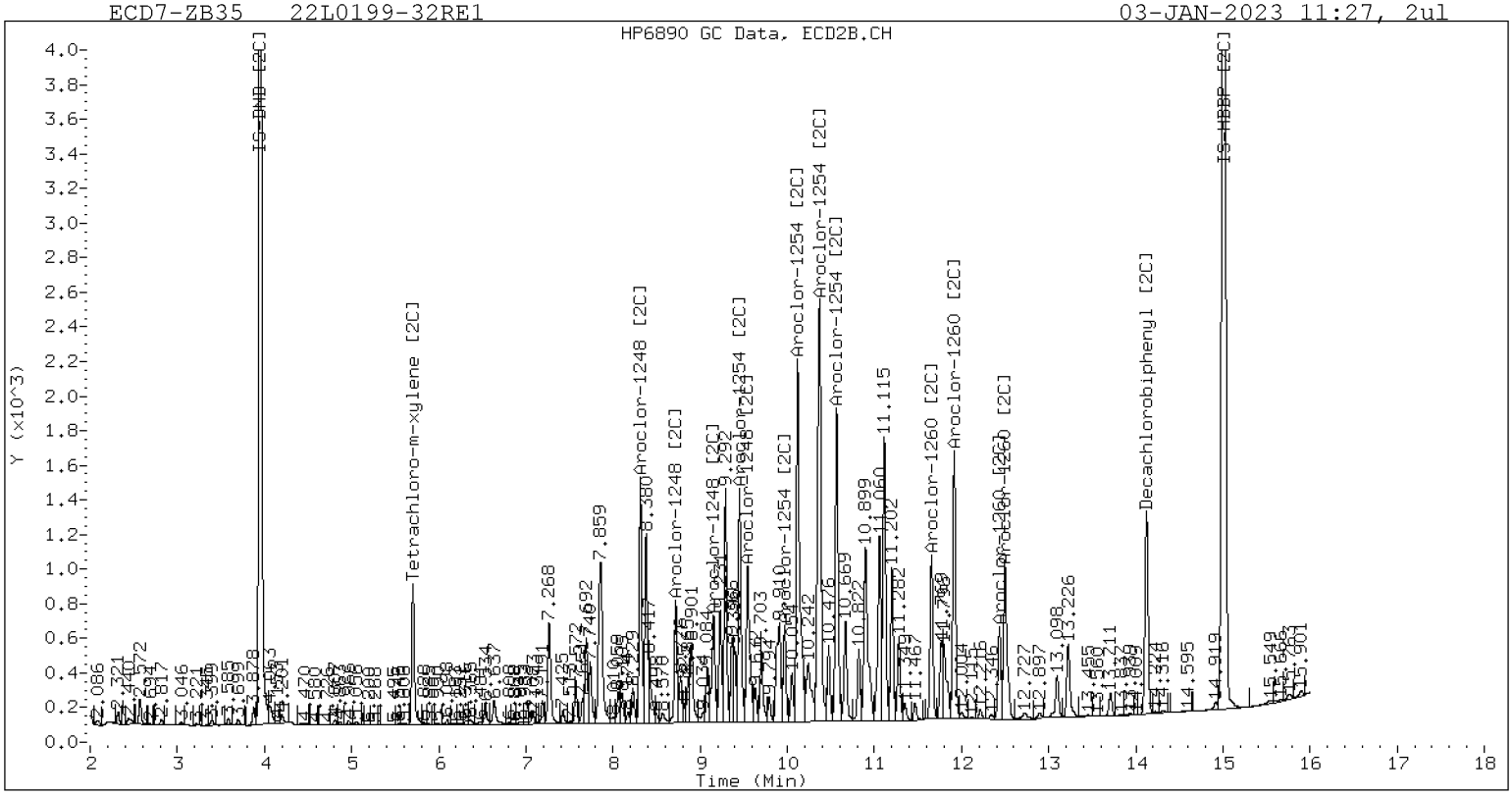
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-32RE1 03-JAN-2023 11:27, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-32RE1 03-JAN-2023 11:27, 2ul

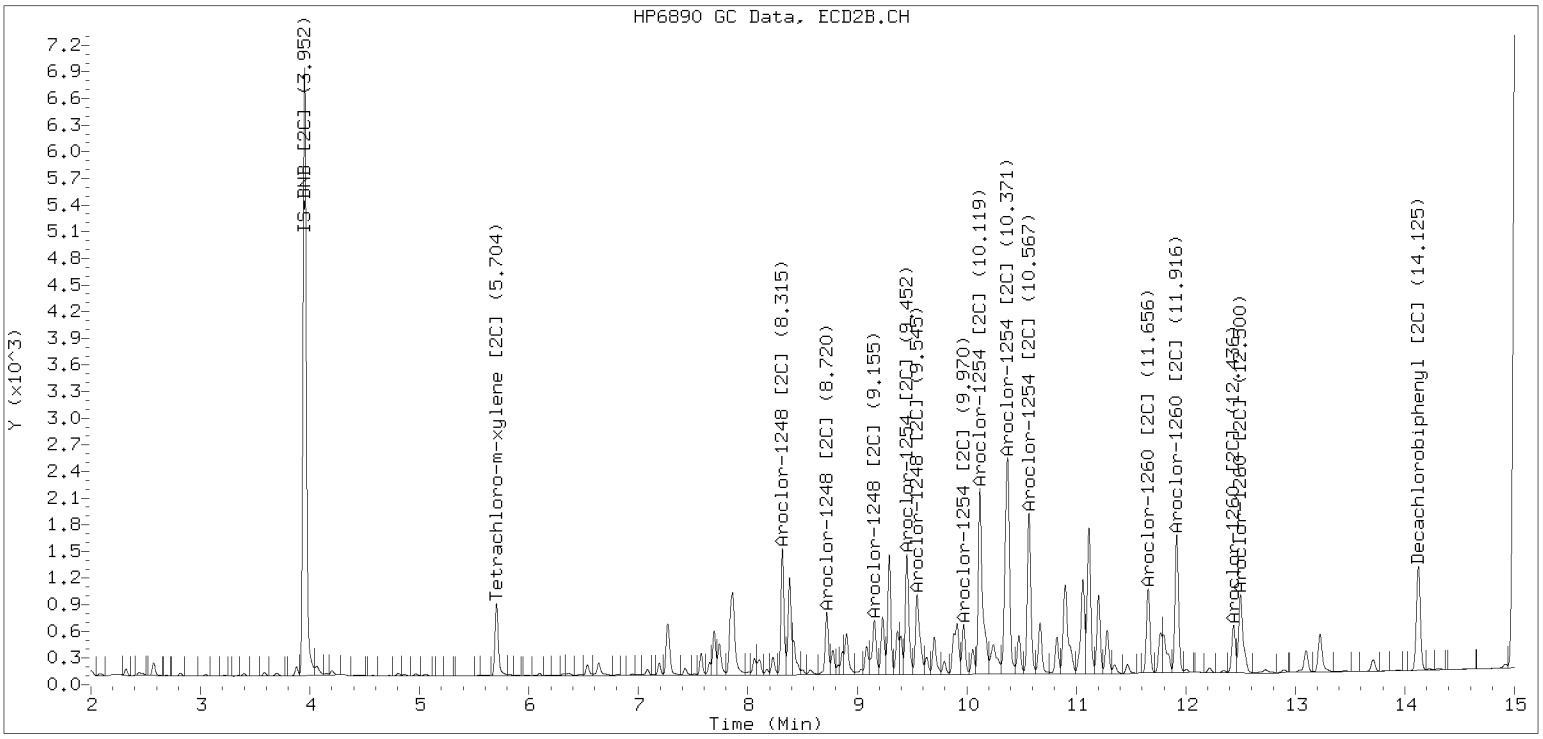


ZB-35 Manual Integration: YES

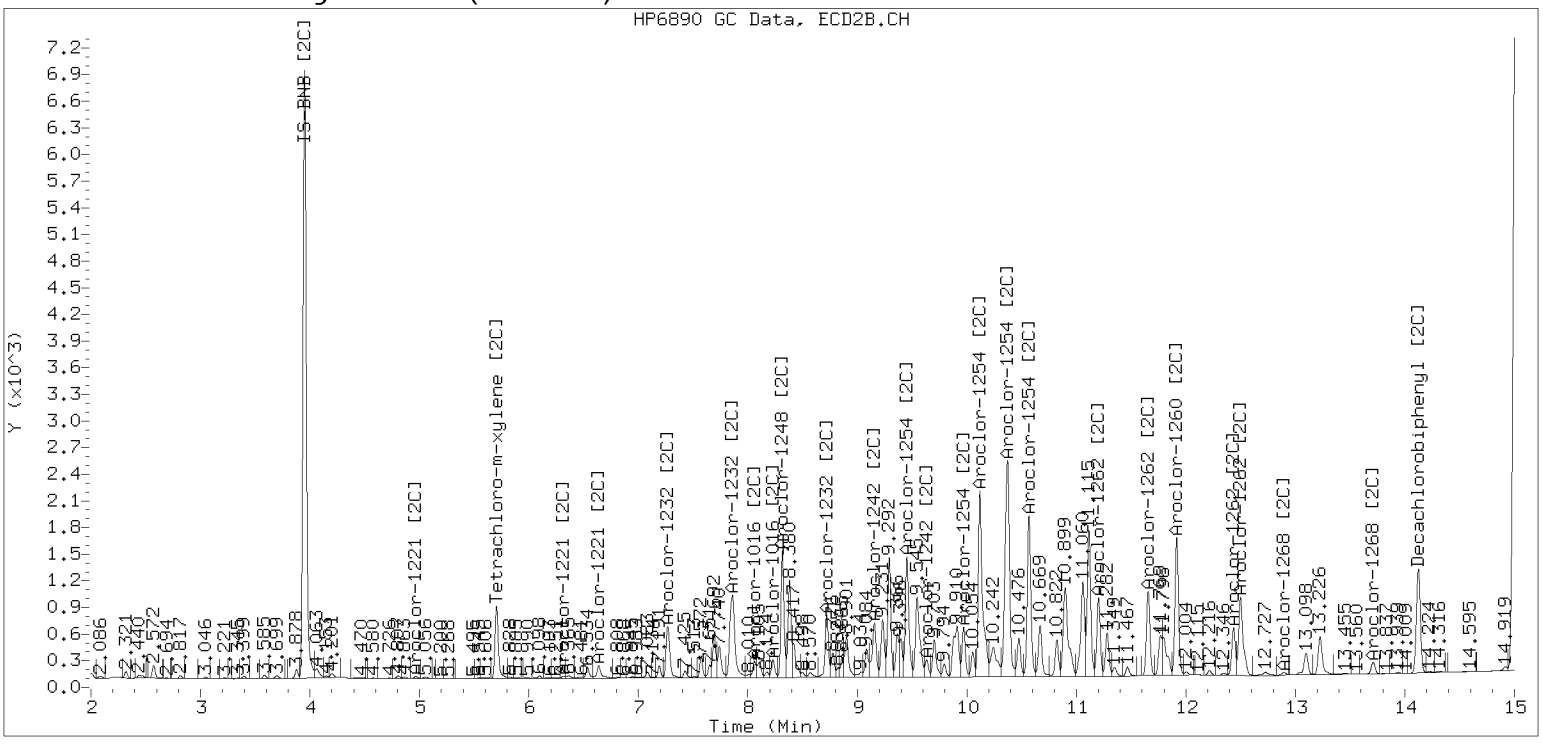
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230103.b/230103.b/01032310ECD7.D Injection Date: 03-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-33 B	File ID:	01052380ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 16:08
% Solids:	80.20	Preparation:	EPA 3546 (Microwave)	Initial/Final:	15.59 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9980*	*8.20*	*102*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9980*	*6.49*	*81.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052380ECD7.D
Data file 2: /230105.b/230105.b/01052380ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-33
Client ID:
Injection Date: 06-JAN-2023 16:08
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.004	222310	5.706	-0.004	146085	32.5	34.2	5.3	Tetrachloro-m-xylene
13.897	-0.007	254921	14.125	-0.003	248560	41.0	39.1	4.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483159	7.9
Hexabromobiphenyl	798898	678345	-15.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	311306	25.0
Hexabromobiphenyl	362541	447981	23.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 204461 Col1 Total PCB = 0.0 ppm*

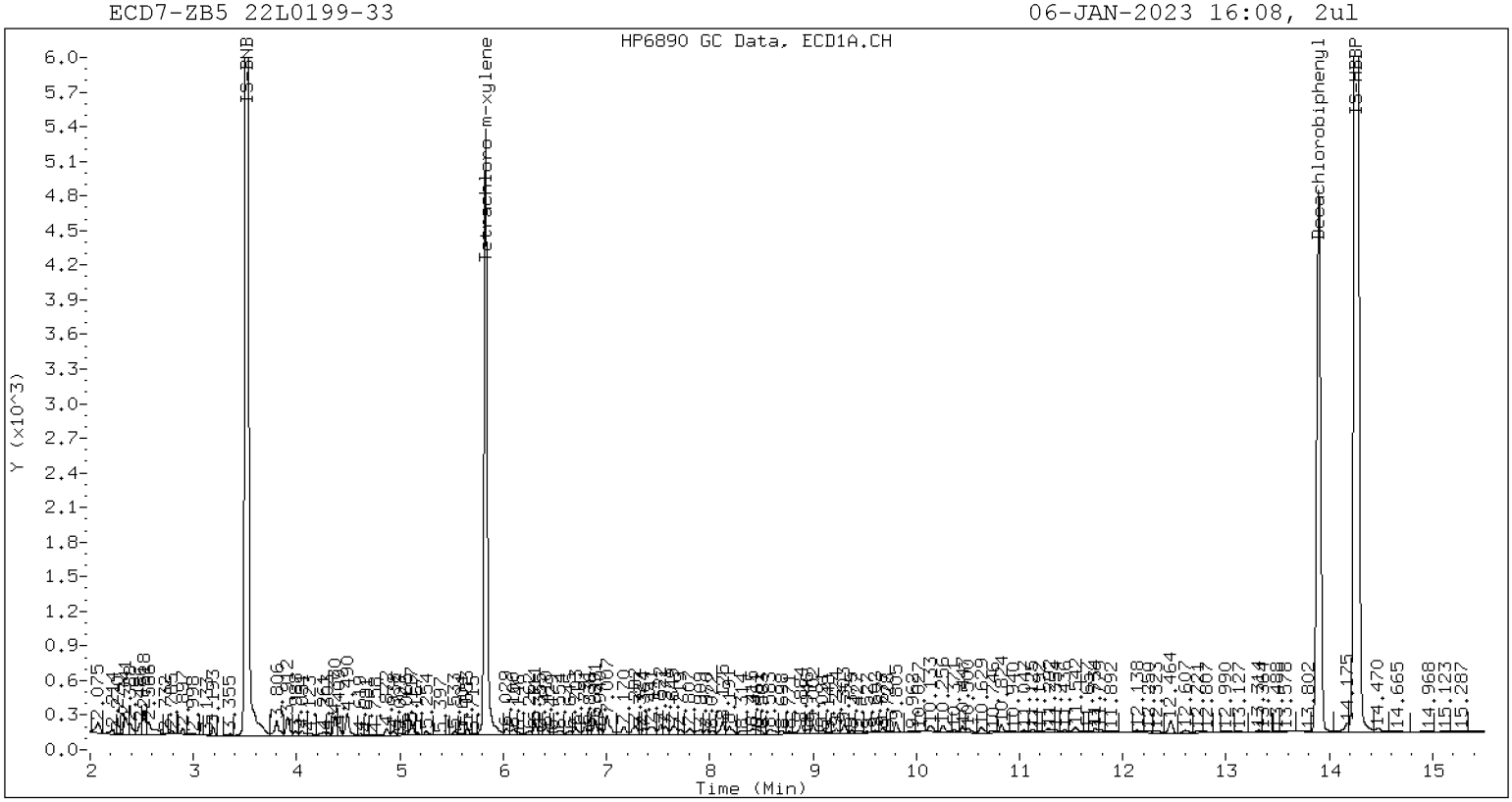
Total PCB Area Col2 (5.810 - 14.028) = 142659 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

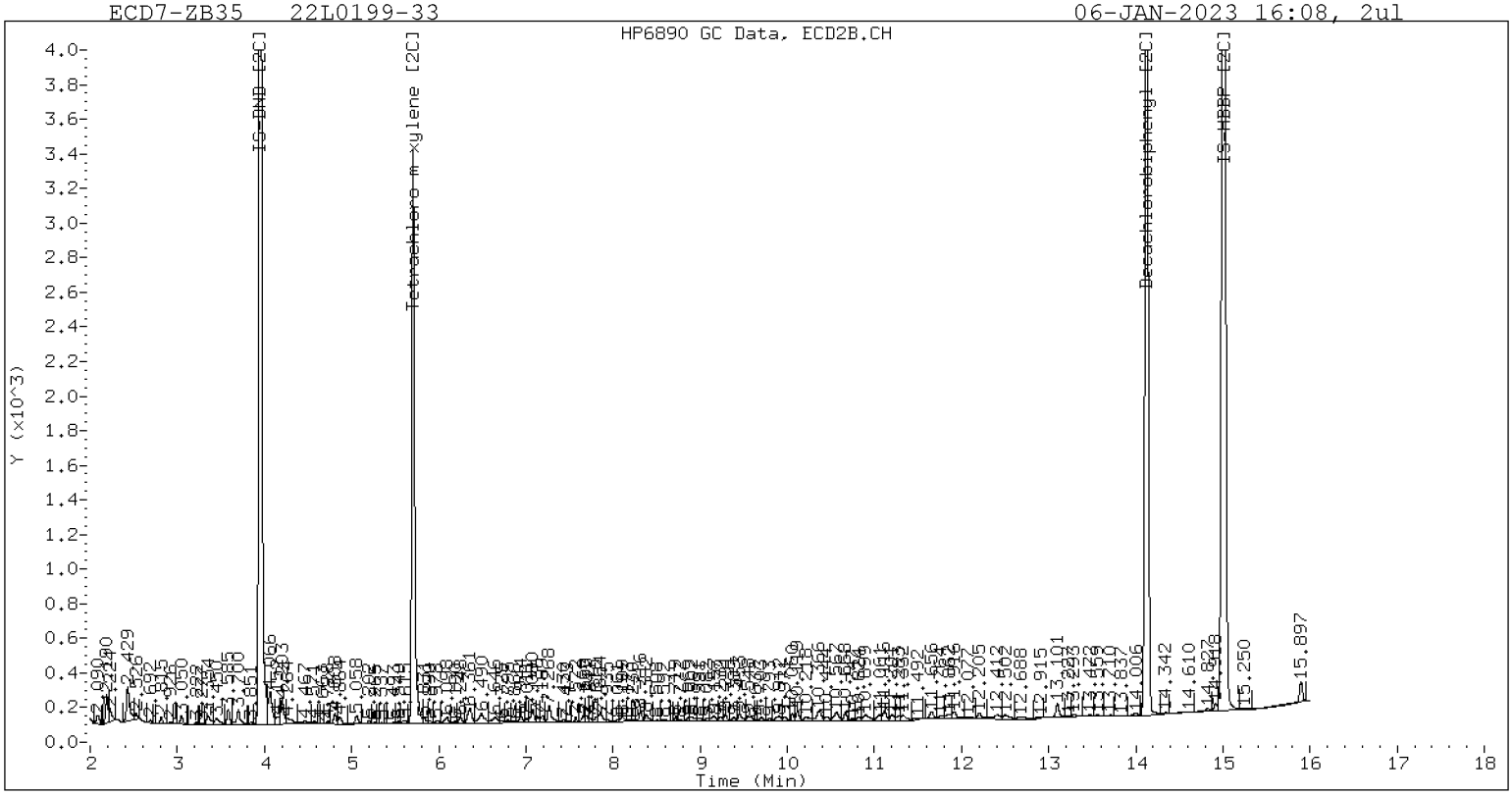
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-33 06-JAN-2023 16:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-33 06-JAN-2023 16:08, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802K

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-34 B	File ID:	01052381ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 16:29
% Solids:	82.05	Preparation:	EPA 3546 (Microwave)	Initial/Final:	15.29 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9710*	*8.18*	*103*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9710*	*6.79*	*85.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052381ECD7.D
Data file 2: /230105.b/230105.b/01052381ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-34
Client ID:
Injection Date: 06-JAN-2023 16:29
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.004	238921	5.706	-0.004	154095	34.1	33.6	1.4	Tetrachloro-m-xylene
13.898	-0.005	313558	14.124	-0.004	291818	41.0	41.4	0.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	495018	10.6
Hexabromobiphenyl	798898	833703	4.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	334822	34.4
Hexabromobiphenyl	362541	496989	37.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 377640 Col1 Total PCB = 0.1 ppm*

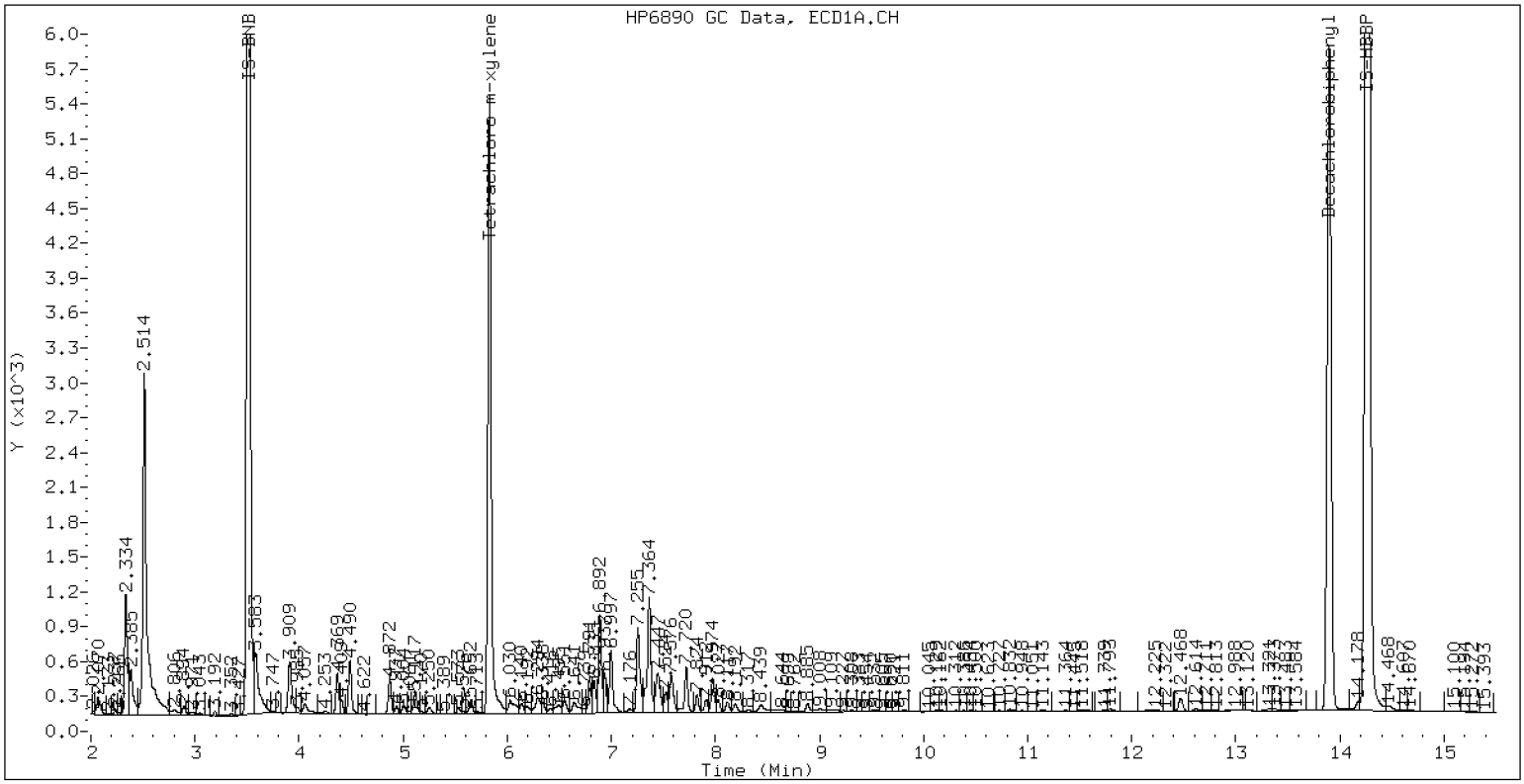
Total PCB Area Col2 (5.810 - 14.028) = 218164 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

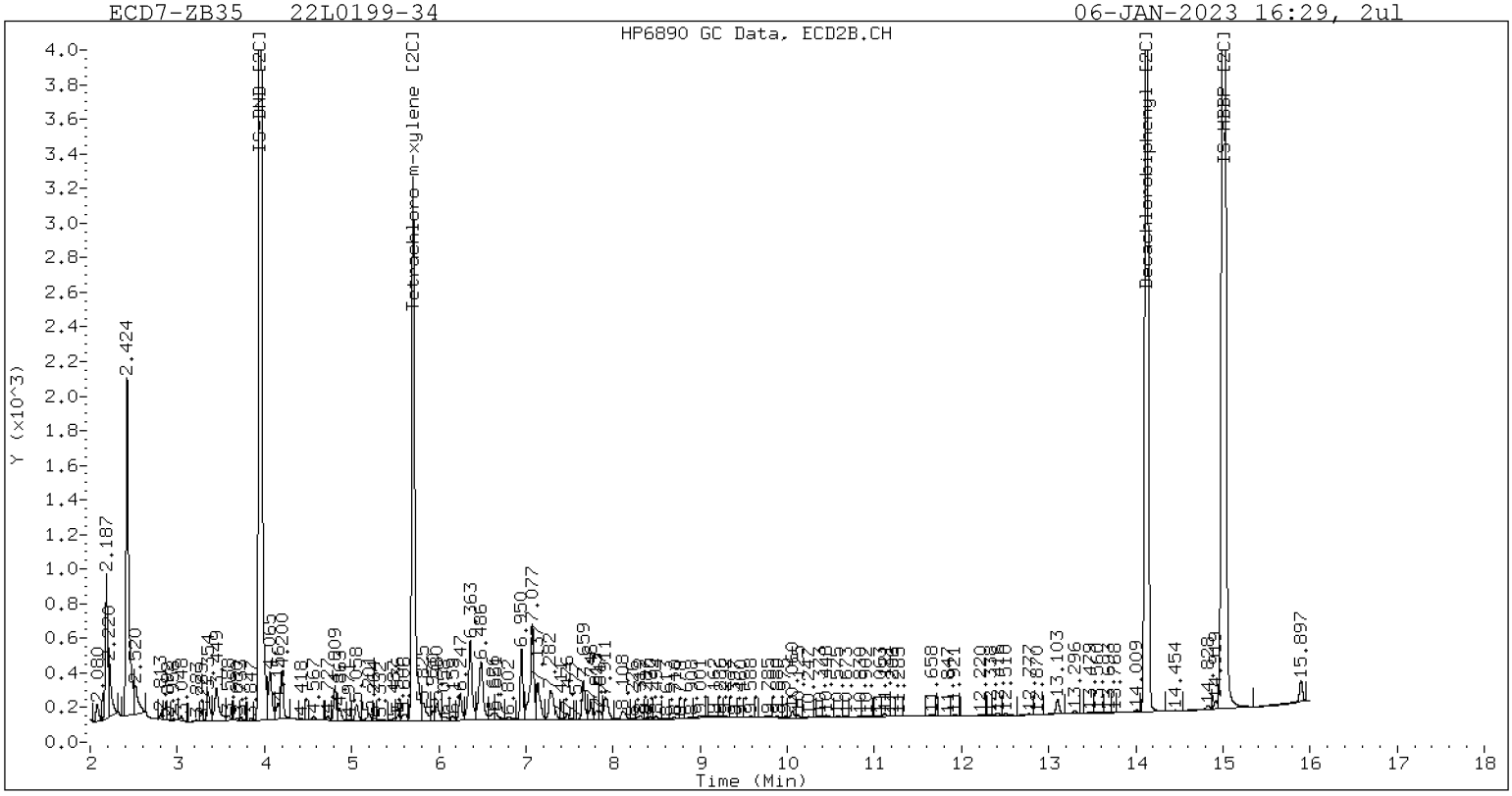
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-34 06-JAN-2023 16:29, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-34 06-JAN-2023 16:29, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC802C-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-35 B	File ID:	01052382ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 16:50
% Solids:	52.06	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.03 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	59.1	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	85.4	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	75.5	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9936*	*7.81*	*97.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9936*	*5.57*	*69.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9936*	*7.34*	*91.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9936*	*6.09*	*76.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052382ECD7.D
Data file 2: /230105.b/230105.b/01052382ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-35
Client ID:
Injection Date: 06-JAN-2023 16:50
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.007	182353	5.703	-0.007	126020	27.9	30.5	8.9	Tetrachloro-m-xylene
13.895	-0.009	166113	14.123	-0.004	186728	39.1	36.7	6.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461888	3.2
Hexabromobiphenyl	798898	463747	-42.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301781	21.2
Hexabromobiphenyl	362541	358148	-1.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.408	-0.015	48496	244.2	1	8.311	-0.010	31411	254.8
Aroclor-1248	2	8.577	-0.022	32792	129.3	2	8.717	-0.009	29256	225.6
Aroclor-1248	3	8.994	-0.021	112277	246.1	3	9.148	-0.025	41684	264.3
Aroclor-1248	4	9.297	-0.014	125743	562.7	4	9.542	-0.051	66978	361.7
	Total Col1Ave (4 peaks):				295.6	Total Col2Ave (4 peaks):				276.6 RPD = 7
	Corrected Ave (3 peaks):				206.6	Corrected Ave (3 peaks):				248.2 RPD = 18
Aroclor-1254	1	9.297	-0.015	125743	309.2	1	9.447	-0.013	80701	414.8
Aroclor-1254	2	9.373	-0.019	52159	329.8	2	9.966	-0.012	39545	252.8
Aroclor-1254	3	9.668	-0.016	96598	376.1	3	10.114	-0.016	148378	441.3
Aroclor-1254	4	9.797	-0.022	177758	355.0	4	10.363	-0.015	89666	257.5
Aroclor-1254	5	10.130	-0.045	230855	672.6	5	10.563	-0.013	129257	769.6
	Total Col1Ave (5 peaks):				408.5	Total Col2Ave (5 peaks):				427.2 RPD = 4
	Corrected Ave (4 peaks):				342.5	Corrected Ave (4 peaks):				341.6 RPD = 0
Aroclor-1260	1	11.042	-0.013	71305	422.4	1	11.652	-0.010	75266	398.1
Aroclor-1260	2	11.357	-0.015	58229	333.5	2	11.914	-0.013	143720	303.0
Aroclor-1260	3	11.728	-0.018	170127	370.9	3	12.433	-0.010	59368	470.0
Aroclor-1260	4	12.128	-0.022	92621	396.5	4	12.497	-0.011	107404	339.6
Aroclor-1260	5	12.244	-0.012	42095	440.2	NS	---			----
	Total Col1Ave (5 peaks):				392.7	Total Col2Ave (4 peaks):				377.7 RPD = 4
	Corrected Ave (4 peaks):				380.8	Corrected Ave (3 peaks):				346.9 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 3330122 Col1 Total PCB = 0.8 ppm*

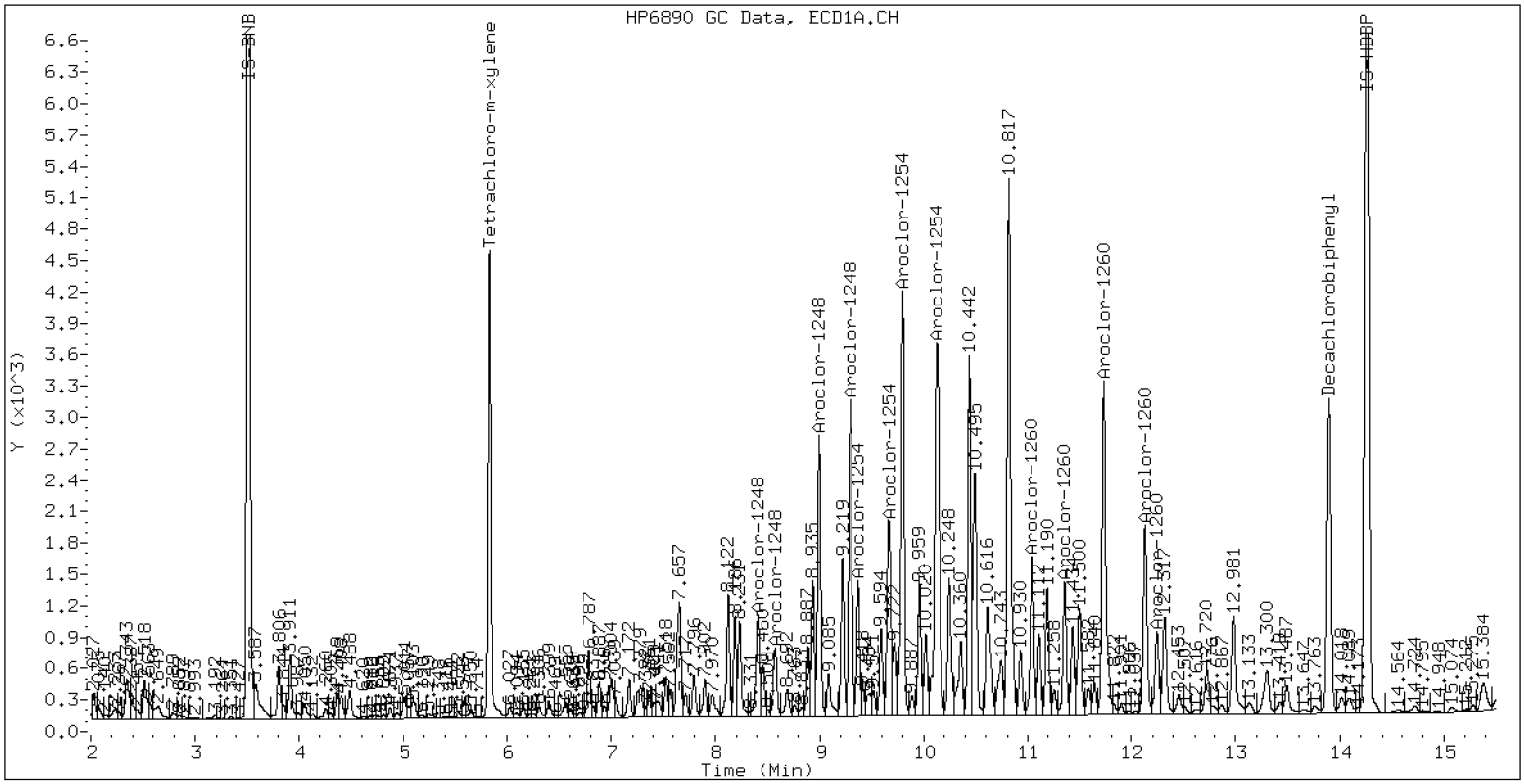
Total PCB Area Col2 (5.810 - 14.028) = 2512616 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

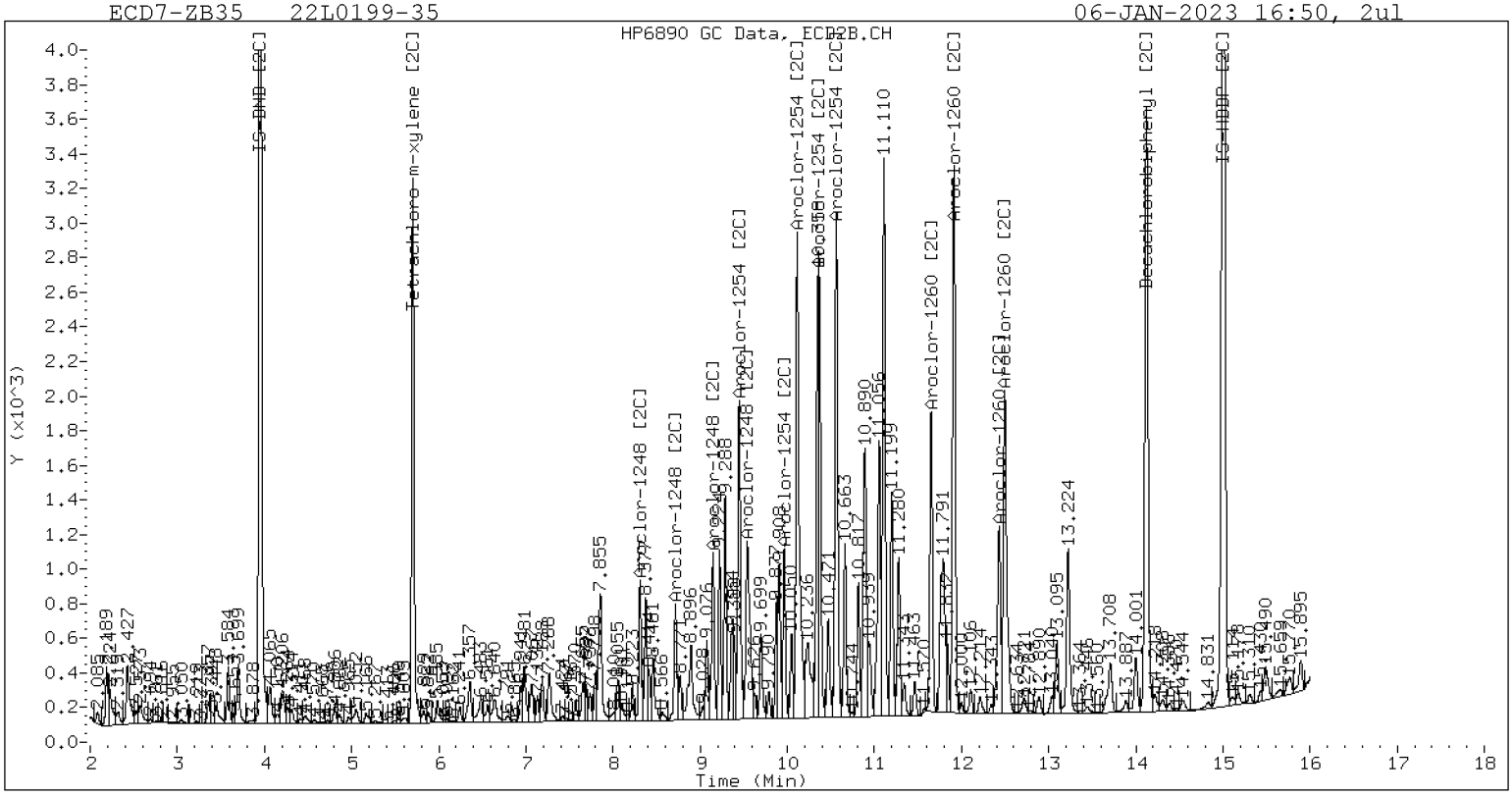
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-35 06-JAN-2023 16:50, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-35 06-JAN-2023 16:50, 2ul

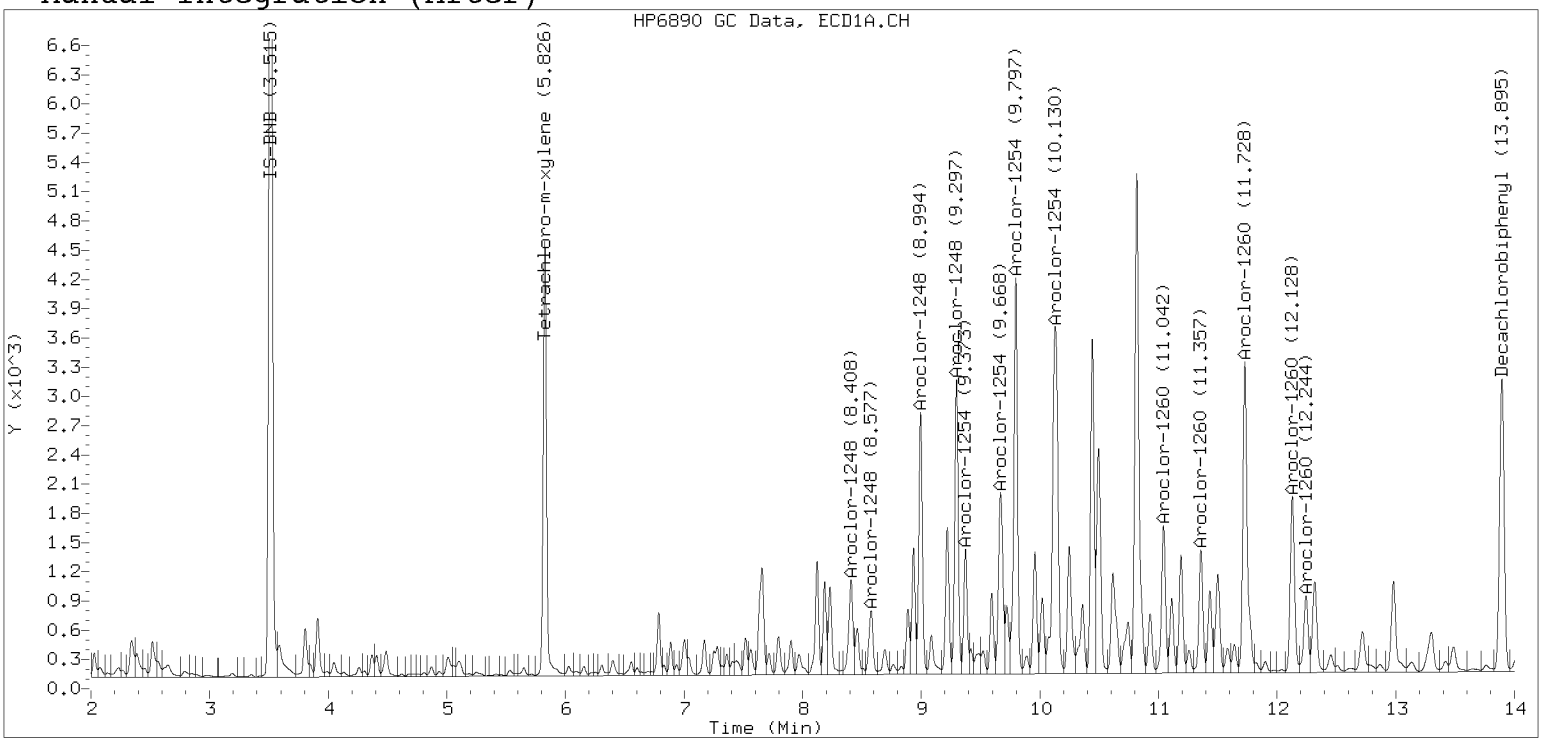


ZB-35 Manual Integration: YES

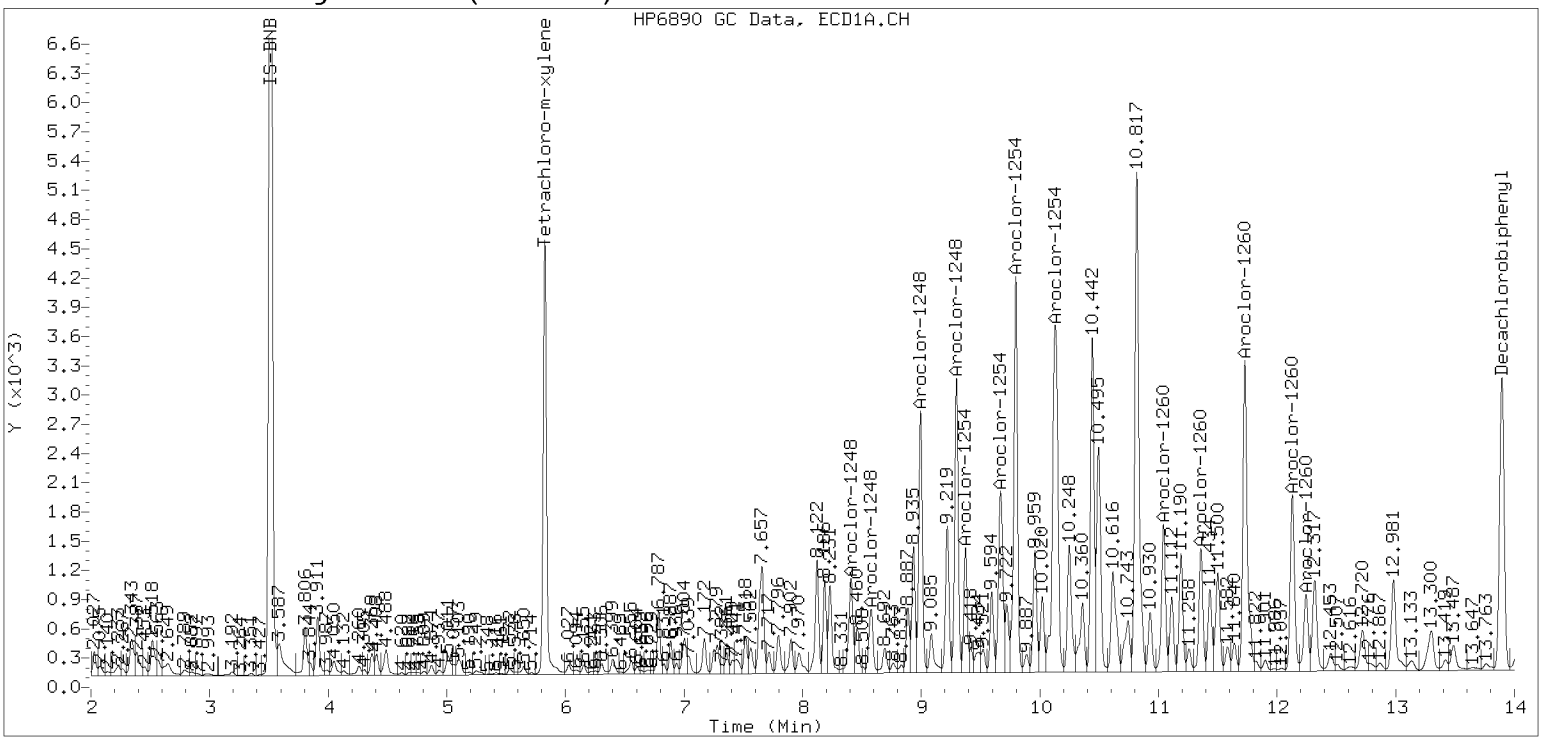
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052382ECD7.D Injection Date: 06-JAN-2023 16:50

Manual Integration (After)



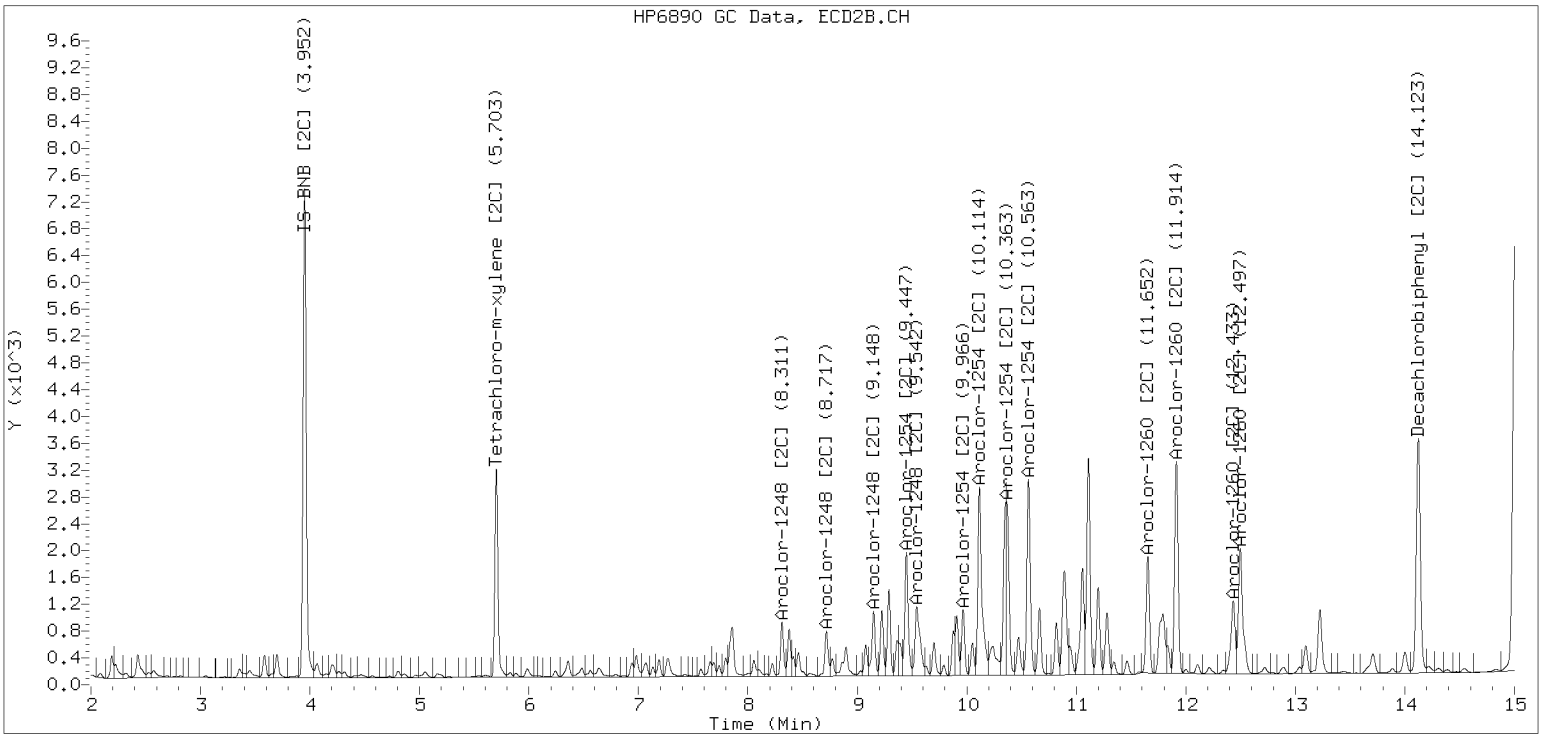
Processed Integration (Before)



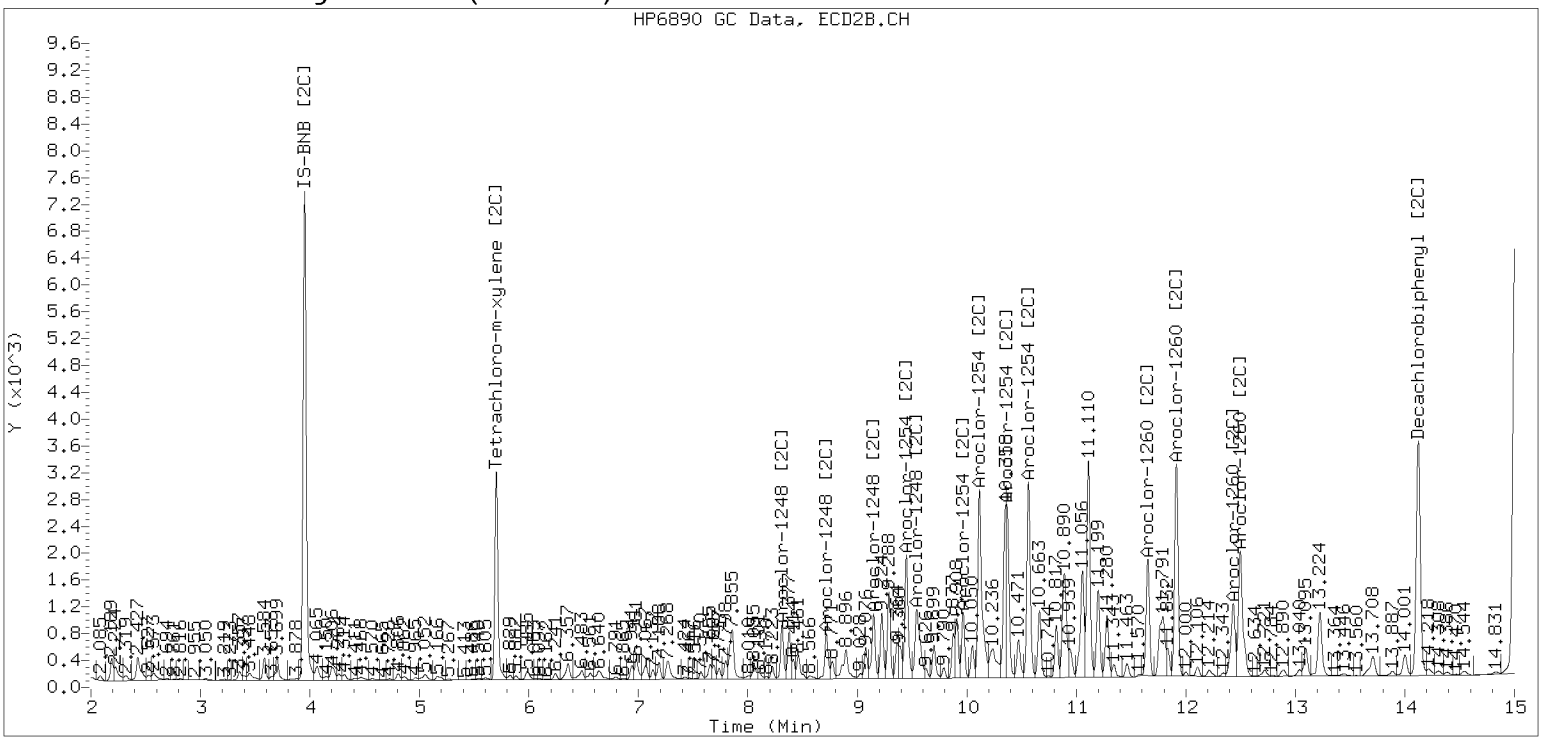
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052382ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-36 B	File ID:	01052383ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 17:11
% Solids:	60.12	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.85 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	30.2	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	49.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	34.2	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9777*	*8.02*	*100*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9777*	*6.38*	*80.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9777*	*7.60*	*95.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9777*	*6.82*	*85.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052383ECD7.D
Data file 2: /230105.b/230105.b/01052383ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-36
Client ID:
Injection Date: 06-JAN-2023 17:11
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	202007	5.704	-0.006	139359	32.0	34.2	6.6	Tetrachloro-m-xylene
13.895	-0.009	189663	14.123	-0.005	201109	40.2	38.1	5.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	445325	-0.5
Hexabromobiphenyl	798898	514838	-35.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297306	19.4
Hexabromobiphenyl	362541	371554	2.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.412	-0.012	21481	112.2	1	8.313	-0.008	20564	169.3
Aroclor-1248	2	8.579	-0.020	18386	75.2	2	8.719	-0.008	13865	108.5
Aroclor-1248	3	8.998	-0.017	53567	121.8	3	9.151	-0.022	18908	121.7
Aroclor-1248	4	9.299	-0.012	64060	297.3	4	9.544	-0.049	29770	163.2
	Total Col1Ave (4 peaks):				151.6	Total Col2Ave (4 peaks):				140.7 RPD = 7
	Corrected Ave (3 peaks):				103.1	Corrected Ave (3 peaks):				131.1 RPD = 24
Aroclor-1254	1	9.299	-0.013	64060	163.4	1	9.450	-0.011	39435	205.7
Aroclor-1254	2	9.375	-0.017	30414	199.5	2	9.968	-0.010	21347	138.5
Aroclor-1254	3	9.669	-0.015	46539	187.9	3	10.116	-0.015	73784	222.7
Aroclor-1254	4	9.800	-0.019	95387	197.6	4	10.364	-0.014	98524	287.2
Aroclor-1254	5	10.131	-0.044	61457	185.7	5	10.564	-0.011	63297	382.5
	Total Col1Ave (5 peaks):				186.8	Total Col2Ave (5 peaks):				247.3 RPD = 28
	Corrected Ave (4 peaks):				183.7	Corrected Ave (4 peaks):				213.5 RPD = 15
Aroclor-1260	1	11.045	-0.011	35066	187.1	1	11.654	-0.009	35830	182.7
Aroclor-1260	2	11.360	-0.012	28997	149.6	2	11.914	-0.012	67419	137.0
Aroclor-1260	3	11.730	-0.016	84723	166.4	3	12.434	-0.009	27686	211.3
Aroclor-1260	4	12.130	-0.020	45511	175.5	4	12.497	-0.011	51103	155.8
Aroclor-1260	5	12.245	-0.011	22537	212.3	NS	---			----
	Total Col1Ave (5 peaks):				178.2	Total Col2Ave (4 peaks):				171.7 RPD = 4
	Corrected Ave (4 peaks):				169.6	Corrected Ave (3 peaks):				158.5 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 1733525 Col1 Total PCB = 0.4 ppm*

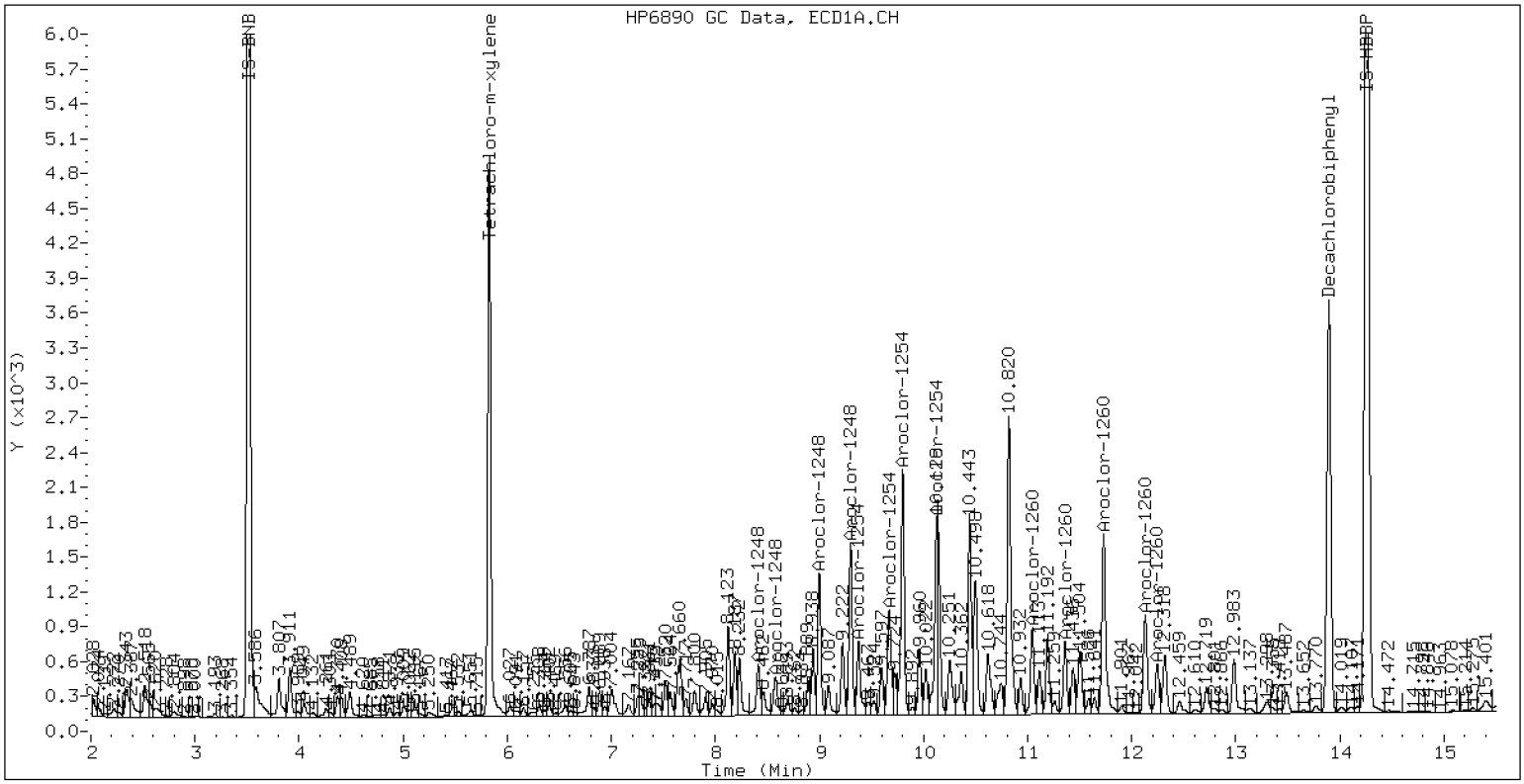
Total PCB Area Col2 (5.810 - 14.028) = 1264117 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

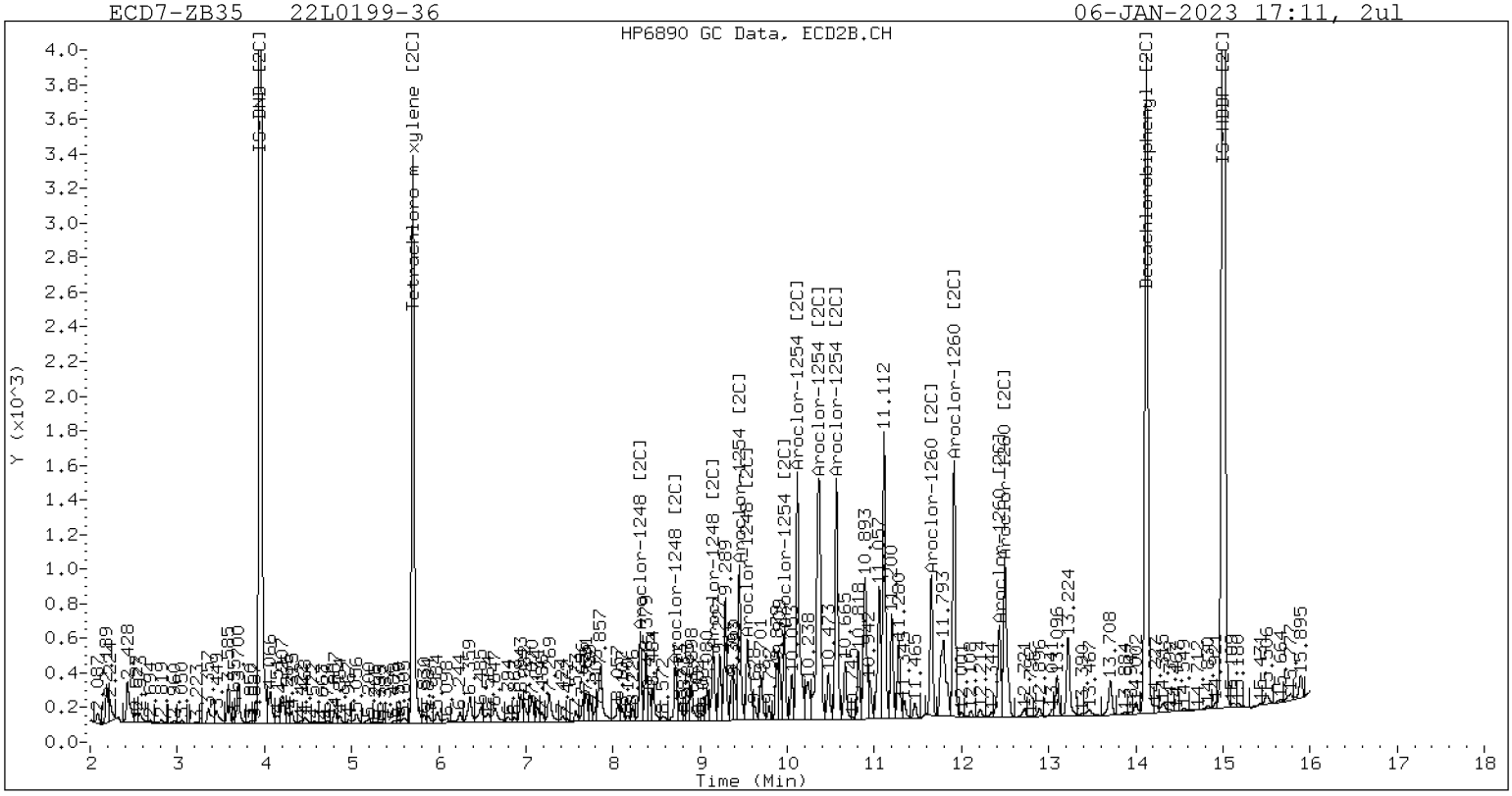
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-36 06-JAN-2023 17:11, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-36 06-JAN-2023 17:11, 2ul

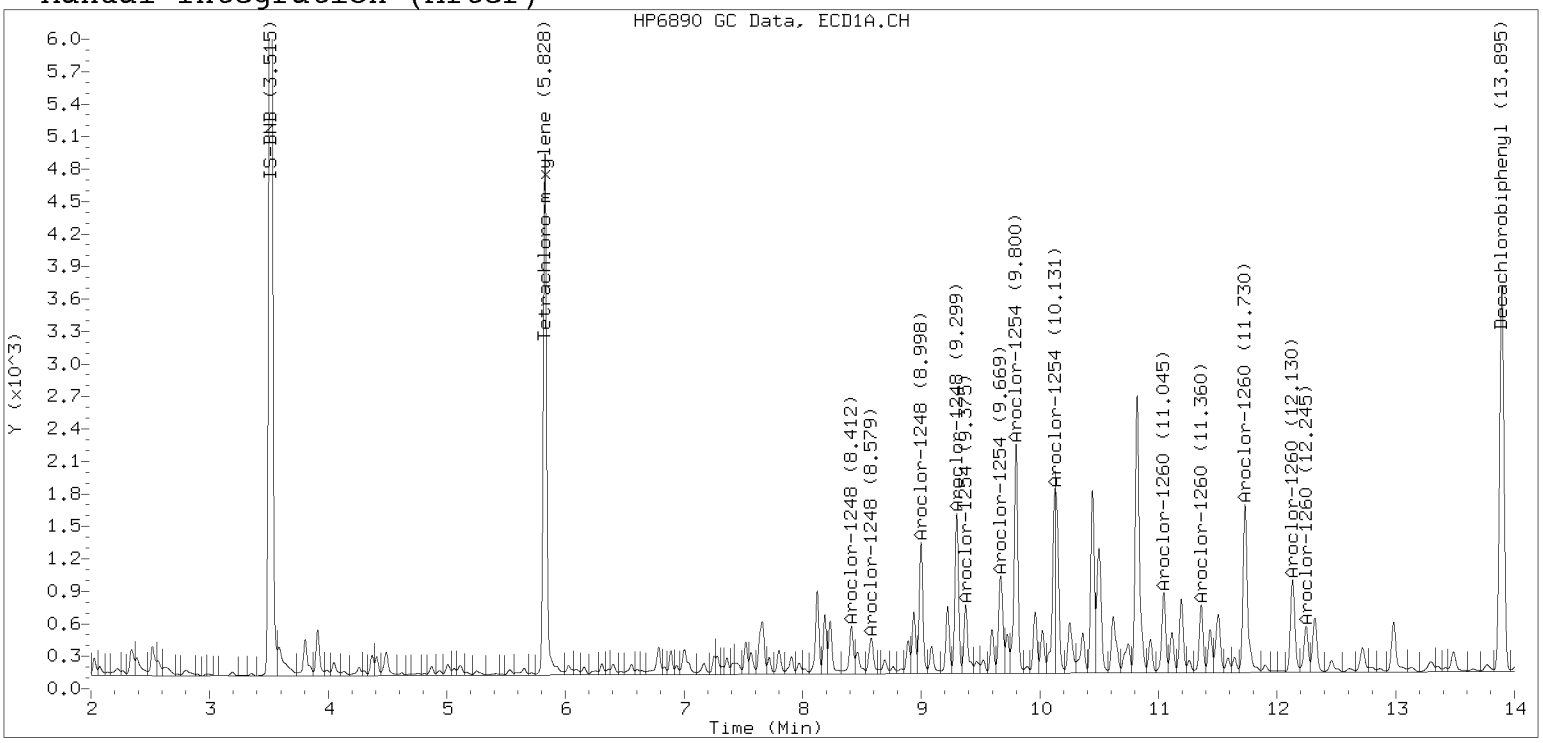


ZB-35 Manual Integration: YES

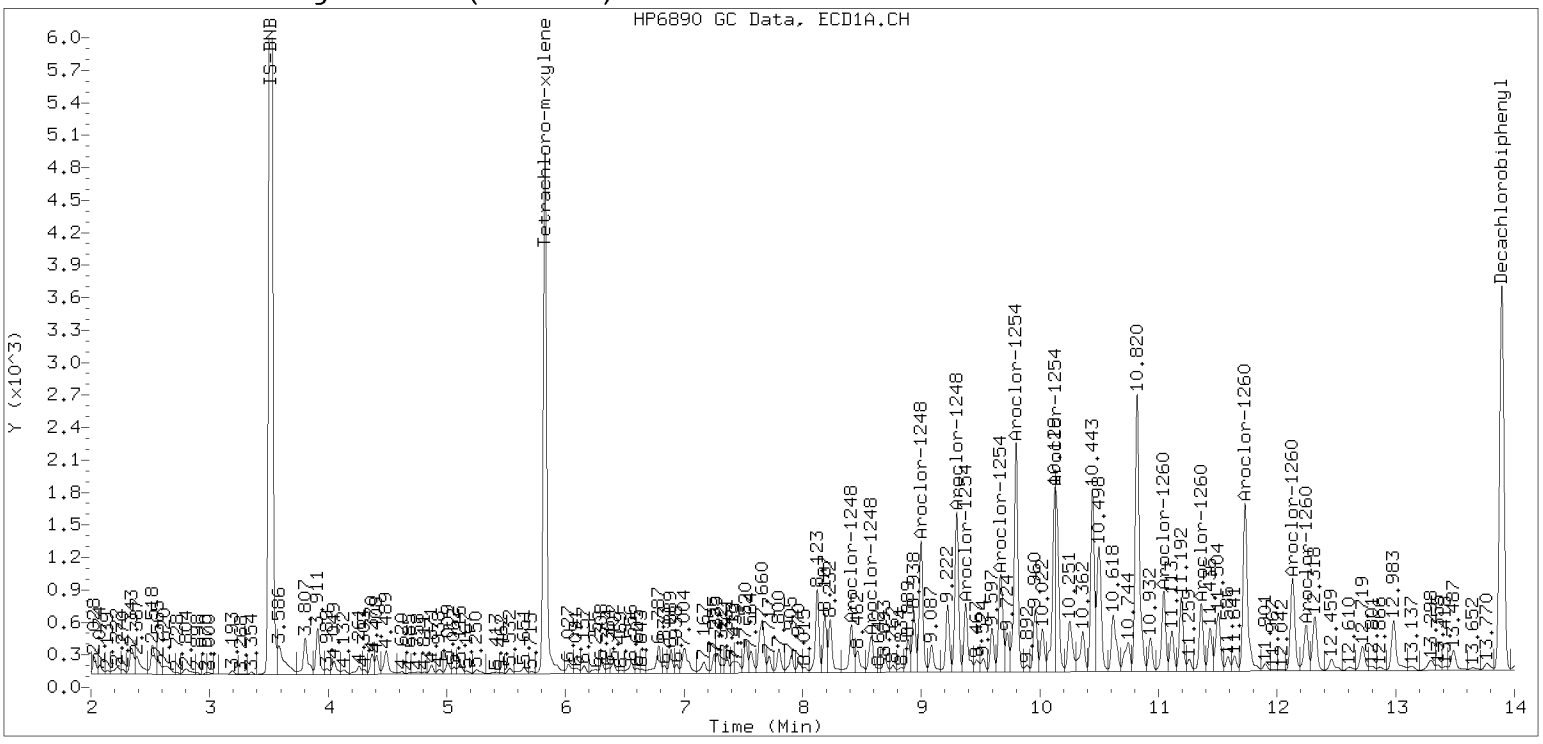
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052383ECD7.D Injection Date: 06-JAN-2023 17:11

Manual Integration (After)



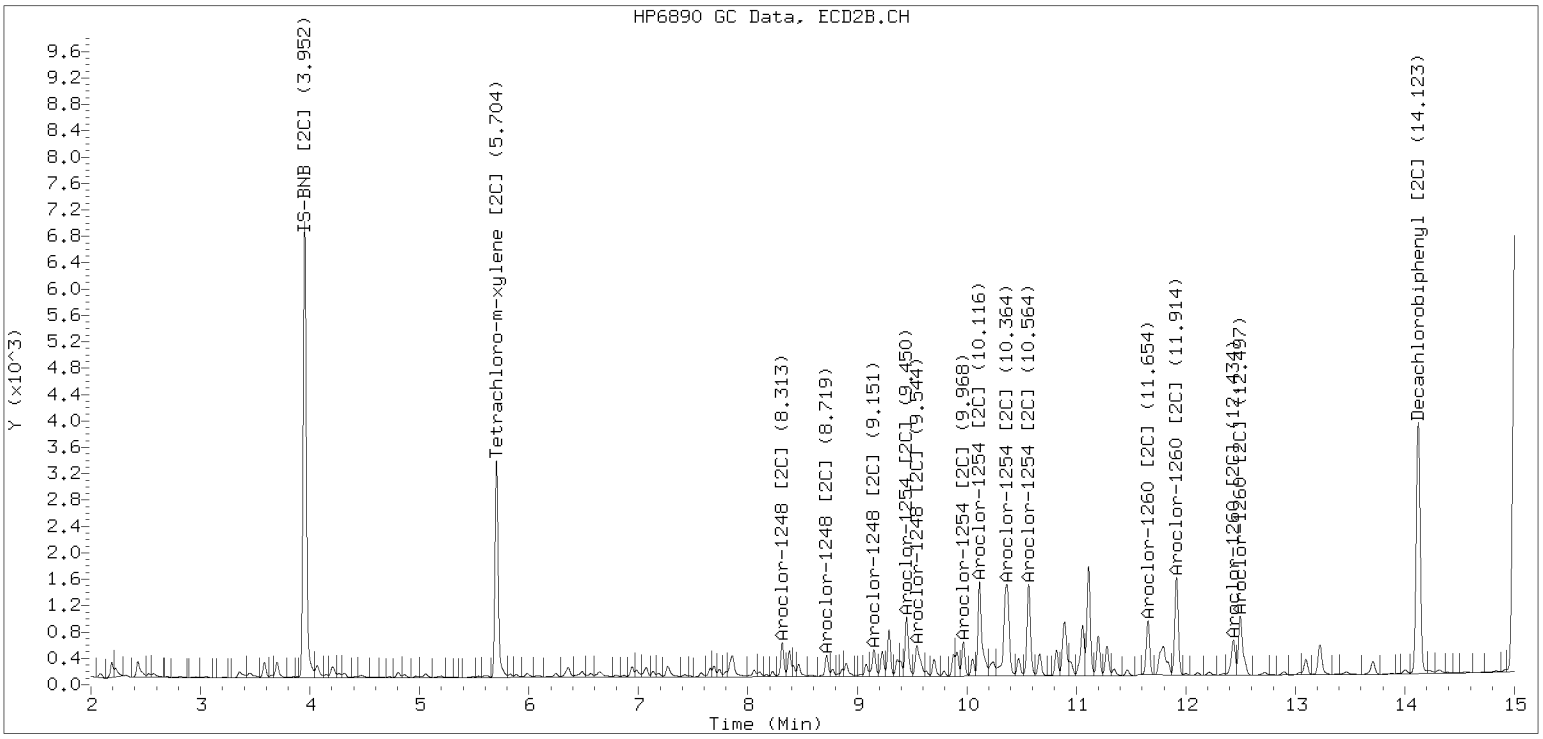
Processed Integration (Before)



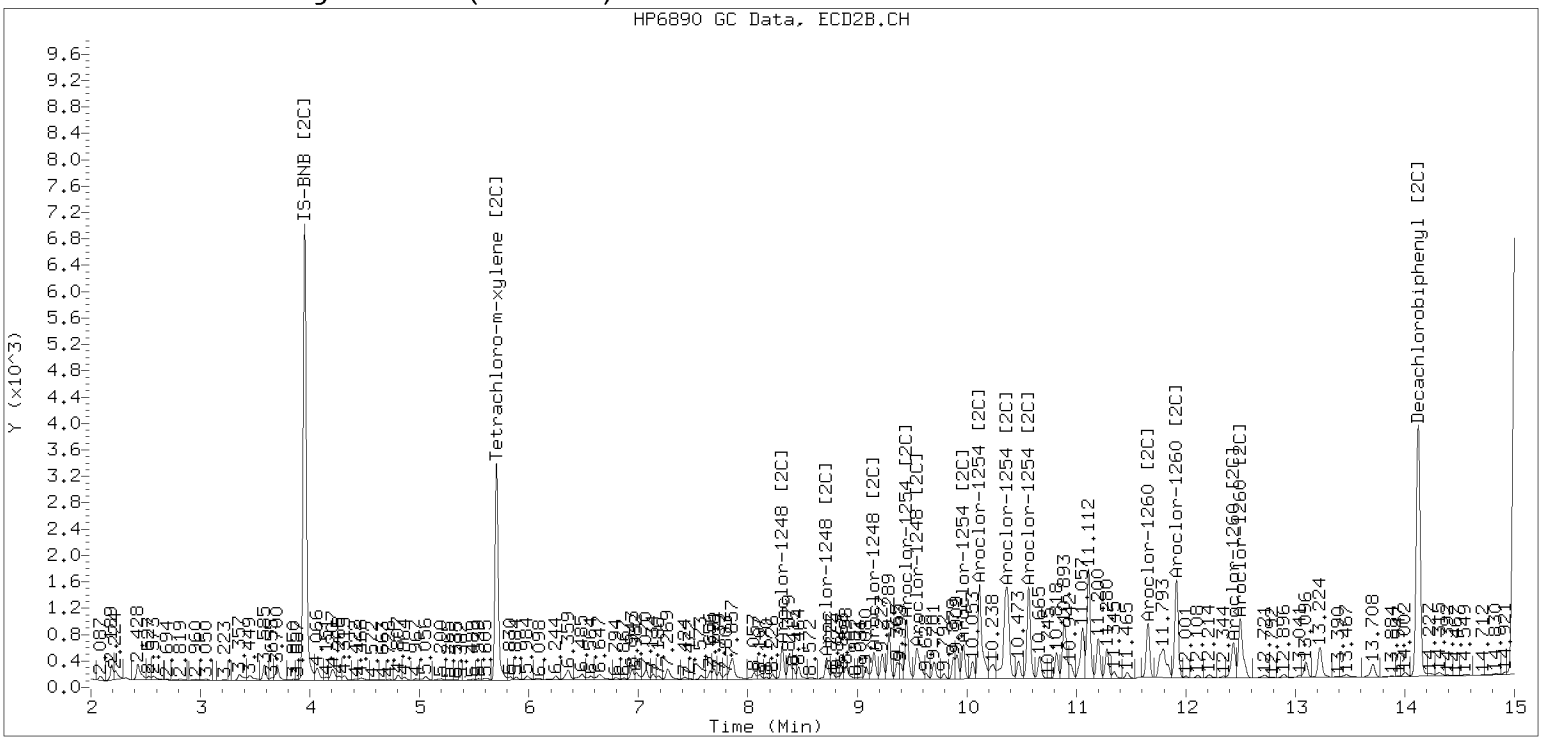
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052383ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-37 B	File ID:	01052386ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 18:15
% Solids:	52.97	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.66 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	38.7	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	52.4	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	38.5	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9791*	*7.90*	*98.9*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9791*	*5.91*	*74.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9791*	*7.31*	*91.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9791*	*6.34*	*79.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052386ECD7.D
Data file 2: /230105.b/230105.b/01052386ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-37
Client ID:
Injection Date: 06-JAN-2023 18:15
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.007	193814	5.703	-0.007	132267	29.6	31.8	7.2	Tetrachloro-m-xylene
13.894	-0.009	178174	14.123	-0.005	190982	39.6	36.7	7.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	462018	3.2
Hexabromobiphenyl	798898	491093	-38.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	303424	21.8
Hexabromobiphenyl	362541	366886	1.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.410	-0.014	34969	176.0	1	8.312	-0.009	23340	188.3
Aroclor-1248	2	8.578	-0.021	29684	117.0	2	8.717	-0.009	22930	175.9
Aroclor-1248	3	8.995	-0.020	73220	160.5	3	9.150	-0.023	31404	198.0
Aroclor-1248	4	9.298	-0.013	72136	322.7	4	9.543	-0.049	22916	123.1
		Total Col1Ave (4 peaks):			194.1		Total Col2Ave (4 peaks):			171.3 RPD = 12
		Corrected Ave (3 peaks):			151.2		Corrected Ave (3 peaks):			162.4 RPD = 7
Aroclor-1254	1	9.298	-0.015	72136	177.3	1	9.448	-0.012	45263	231.4
Aroclor-1254	2	9.374	-0.018	29976	189.5	2	9.967	-0.011	23961	152.3
Aroclor-1254	3	9.669	-0.016	56362	219.4	3	10.115	-0.016	80729	238.8
Aroclor-1254	4	9.798	-0.021	103110	205.9	4	10.359	-0.019	104301	297.9
Aroclor-1254	5	10.133	-0.042	62481	182.0	5	10.564	-0.012	66514	393.9
		Total Col1Ave (5 peaks):			194.8		Total Col2Ave (5 peaks):			262.9 RPD = 30
		Corrected Ave (4 peaks):			188.7		Corrected Ave (4 peaks):			230.1 RPD = 20
Aroclor-1260	1	11.044	-0.012	37569	210.2	1	11.653	-0.010	38659	199.6
Aroclor-1260	2	11.360	-0.013	31955	172.8	2	11.913	-0.013	75900	156.2
Aroclor-1260	3	11.728	-0.018	97352	200.4	3	12.432	-0.011	32247	249.2
Aroclor-1260	4	12.128	-0.022	49509	200.1	4	12.496	-0.011	54389	167.9
Aroclor-1260	5	12.244	-0.012	21578	213.1	NS	---			----
		Total Col1Ave (5 peaks):			199.3		Total Col2Ave (4 peaks):			193.2 RPD = 3
		Corrected Ave (4 peaks):			195.9		Corrected Ave (3 peaks):			174.6 RPD = 12
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 2013041 Col1 Total PCB = 0.5 ppm*

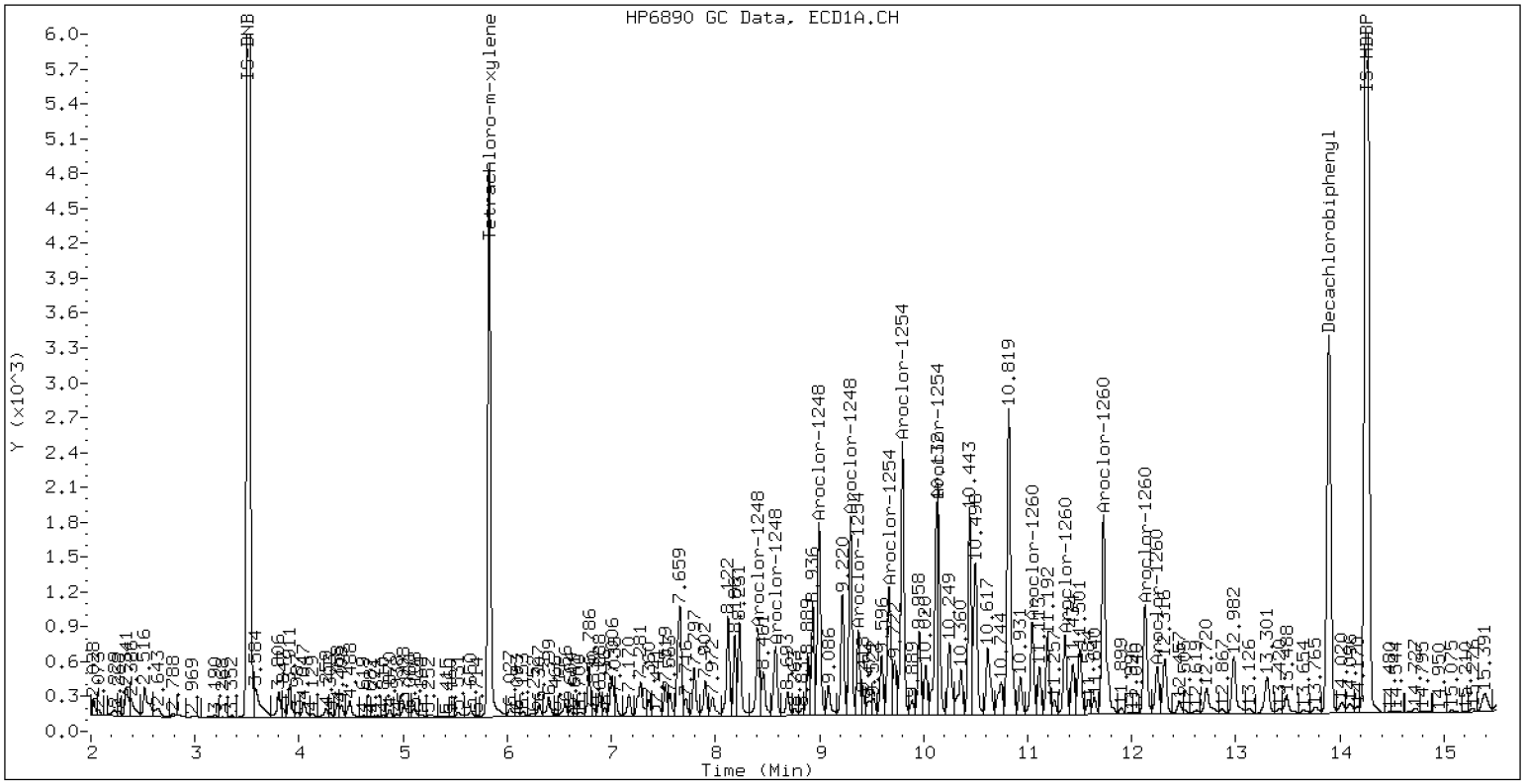
Total PCB Area Col2 (5.810 - 14.028) = 1468032 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

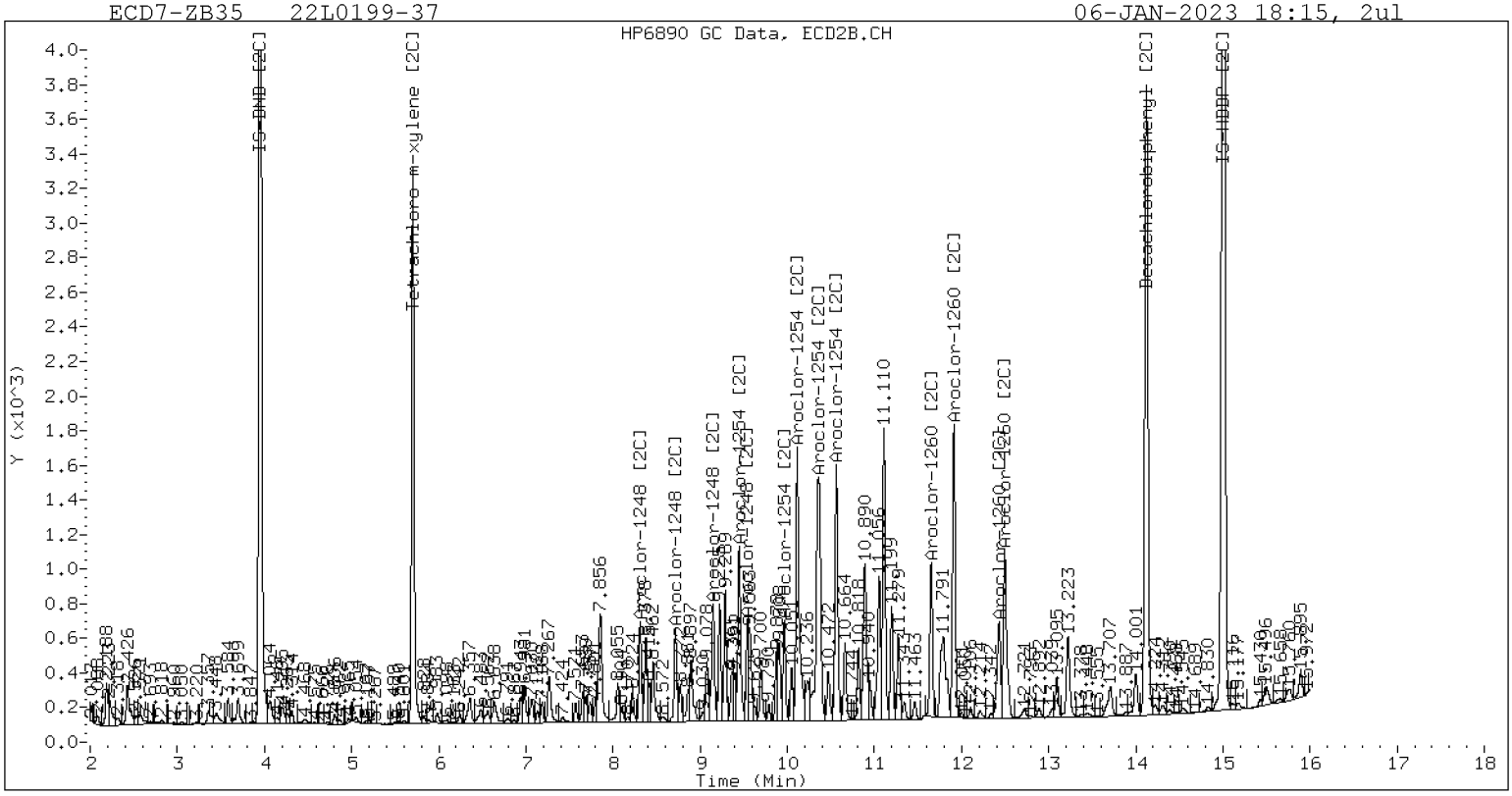
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-37 06-JAN-2023 18:15, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-37 06-JAN-2023 18:15, 2ul

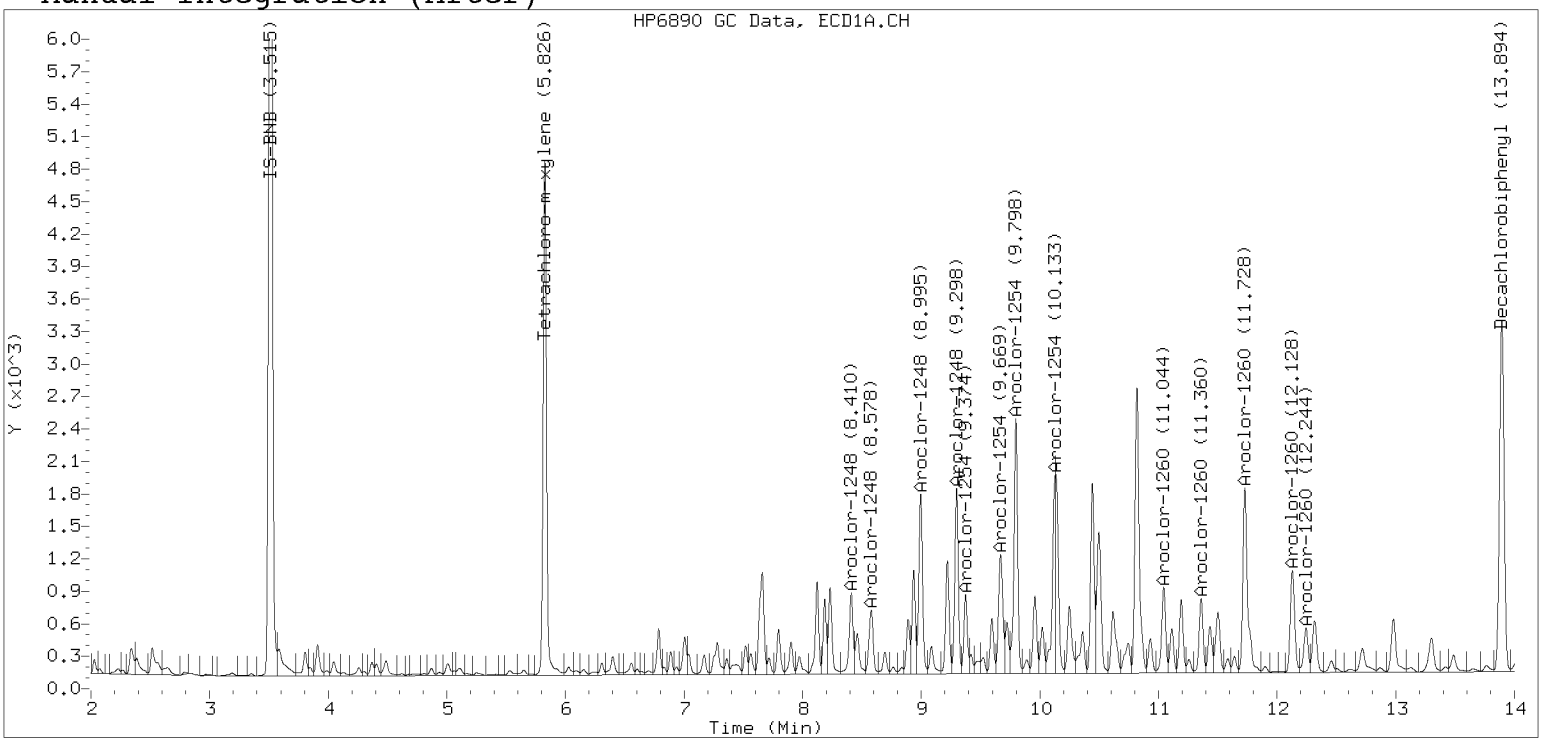


ZB-35 Manual Integration: YES

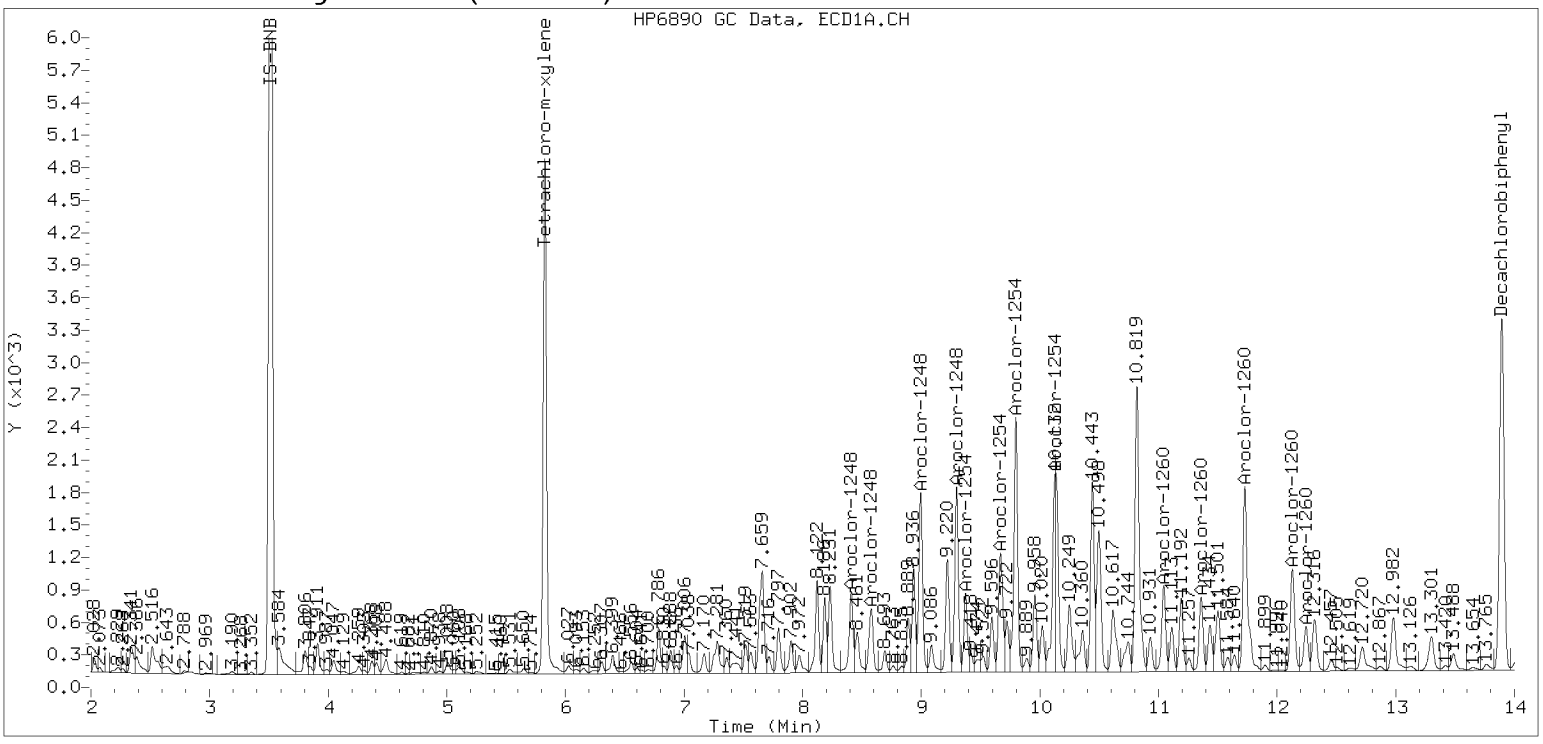
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052386ECD7.D Injection Date: 06-JAN-2023 18:15

Manual Integration (After)



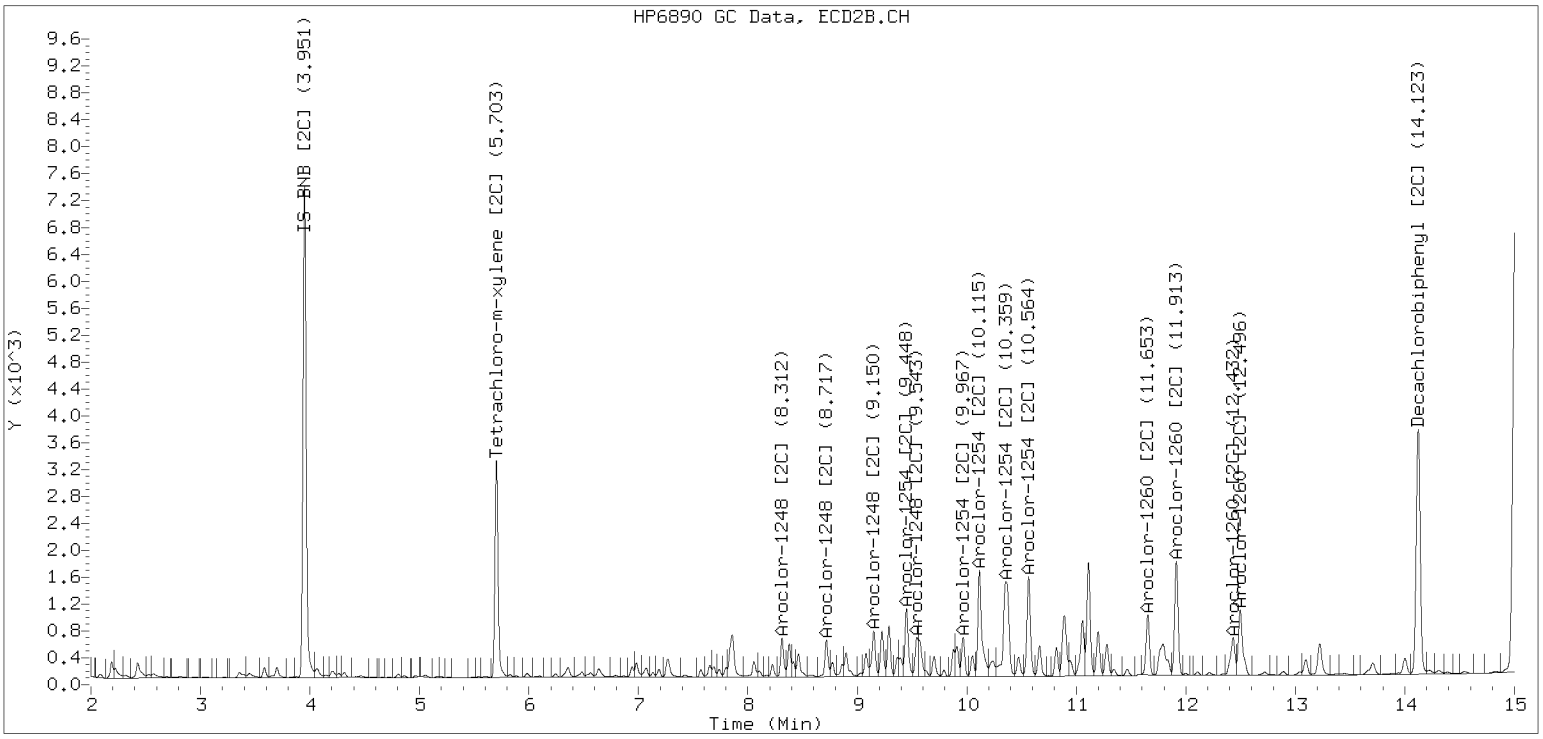
Processed Integration (Before)



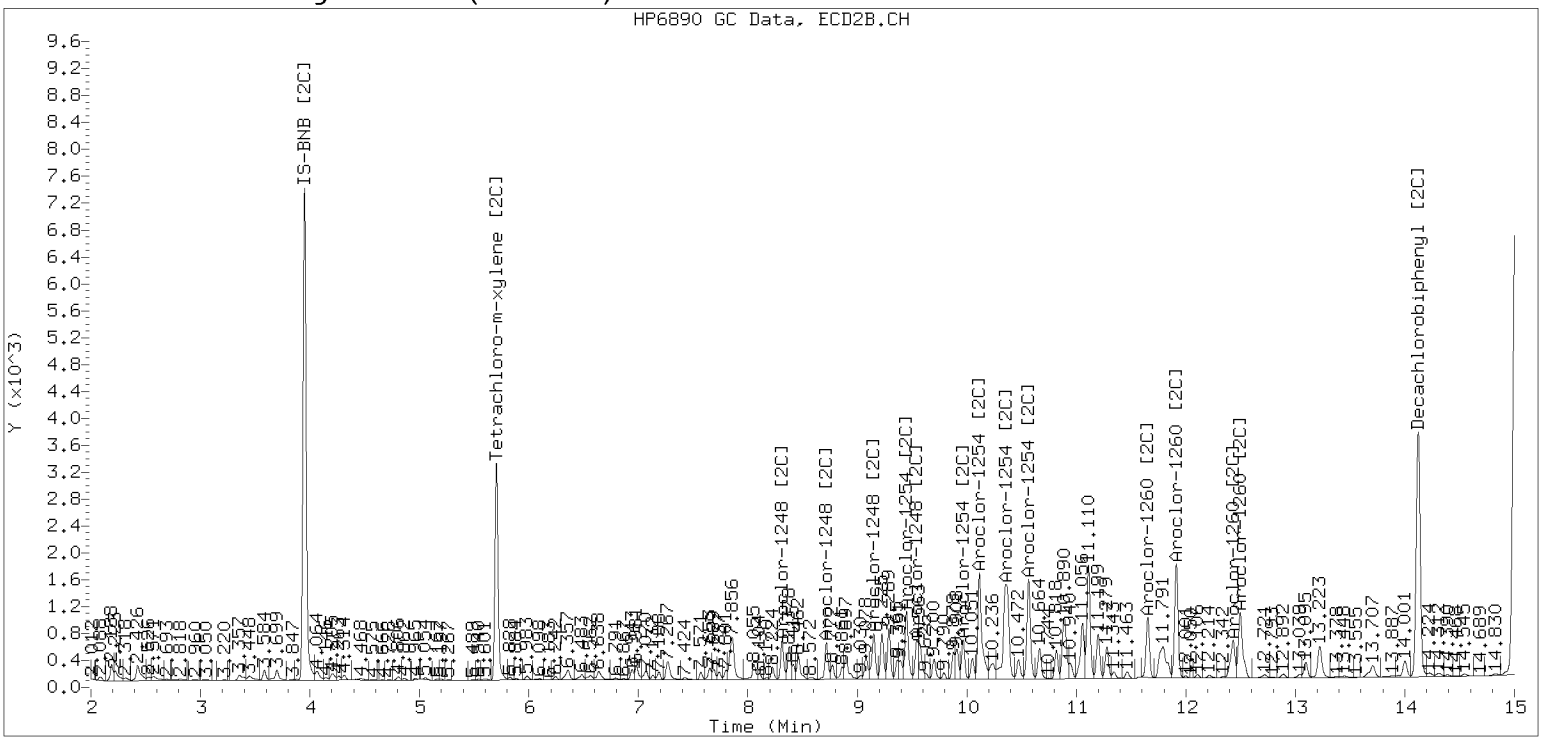
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052386ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-38 B	File ID:	01052387ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 18:36
% Solids:	55.94	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.38 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	39.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	64.7	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	56.1	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9876*	*7.65*	*95.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9876*	*5.42*	*67.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9876*	*7.23*	*90.5*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9876*	*6.06*	*75.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052387ECD7.D
Data file 2: /230105.b/230105.b/01052387ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-38
Client ID:
Injection Date: 06-JAN-2023 18:36
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.007	185520	5.703	-0.007	130260	27.1	30.3	11.2	Tetrachloro-m-xylene
13.895	-0.009	172194	14.123	-0.005	188621	38.3	36.2	5.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482495	7.8
Hexabromobiphenyl	798898	490033	-38.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313107	25.7
Hexabromobiphenyl	362541	367073	1.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.408	-0.016	35735	172.3	1	8.312	-0.010	21652	169.3
Aroclor-1248	2	8.578	-0.021	22874	86.4	2	8.718	-0.009	19628	145.9
Aroclor-1248	3	8.996	-0.020	78235	164.2	3	9.149	-0.023	28509	174.2
Aroclor-1248	4	9.298	-0.014	86045	368.6	4	9.543	-0.050	29139	151.7
		Total Col1Ave (4 peaks):			197.8		Total Col2Ave (4 peaks):			160.3 RPD = 21
		Corrected Ave (3 peaks):			140.9		Corrected Ave (3 peaks):			155.6 RPD = 10
										163.13
Aroclor-1254	1	9.298	-0.015	86045	202.5	1	9.449	-0.012	56217	278.5
Aroclor-1254	2	9.373	-0.019	35460	214.6	2	9.967	-0.010	28831	177.6
Aroclor-1254	3	9.668	-0.016	64270	239.5	3	10.115	-0.015	102538	293.9
Aroclor-1254	4	9.797	-0.022	123442	236.0	4	10.363	-0.015	124850	345.6
Aroclor-1254	5	10.130	-0.045	158389	441.8	5	10.564	-0.011	91356	524.3
		Total Col1Ave (5 peaks):			266.9		Total Col2Ave (5 peaks):			324.0 RPD = 19
		Corrected Ave (4 peaks):			223.2		Corrected Ave (4 peaks):			273.9 RPD = 20
Aroclor-1260	1	11.043	-0.013	50973	285.8	1	11.653	-0.010	55298	285.4
Aroclor-1260	2	11.359	-0.013	44726	242.4	2	11.914	-0.012	110591	227.5
Aroclor-1260	3	11.729	-0.017	130597	269.4	3	12.433	-0.010	46163	356.5
Aroclor-1260	4	12.130	-0.021	71717	290.5	4	12.497	-0.011	82181	253.6
Aroclor-1260	5	12.244	-0.012	32253	319.2	NS	---			----
		Total Col1Ave (5 peaks):			281.5		Total Col2Ave (4 peaks):			280.7 RPD = 0
		Corrected Ave (4 peaks):			272.0		Corrected Ave (3 peaks):			255.5 RPD = 6
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 2409976 Col1 Total PCB = 0.5 ppm*

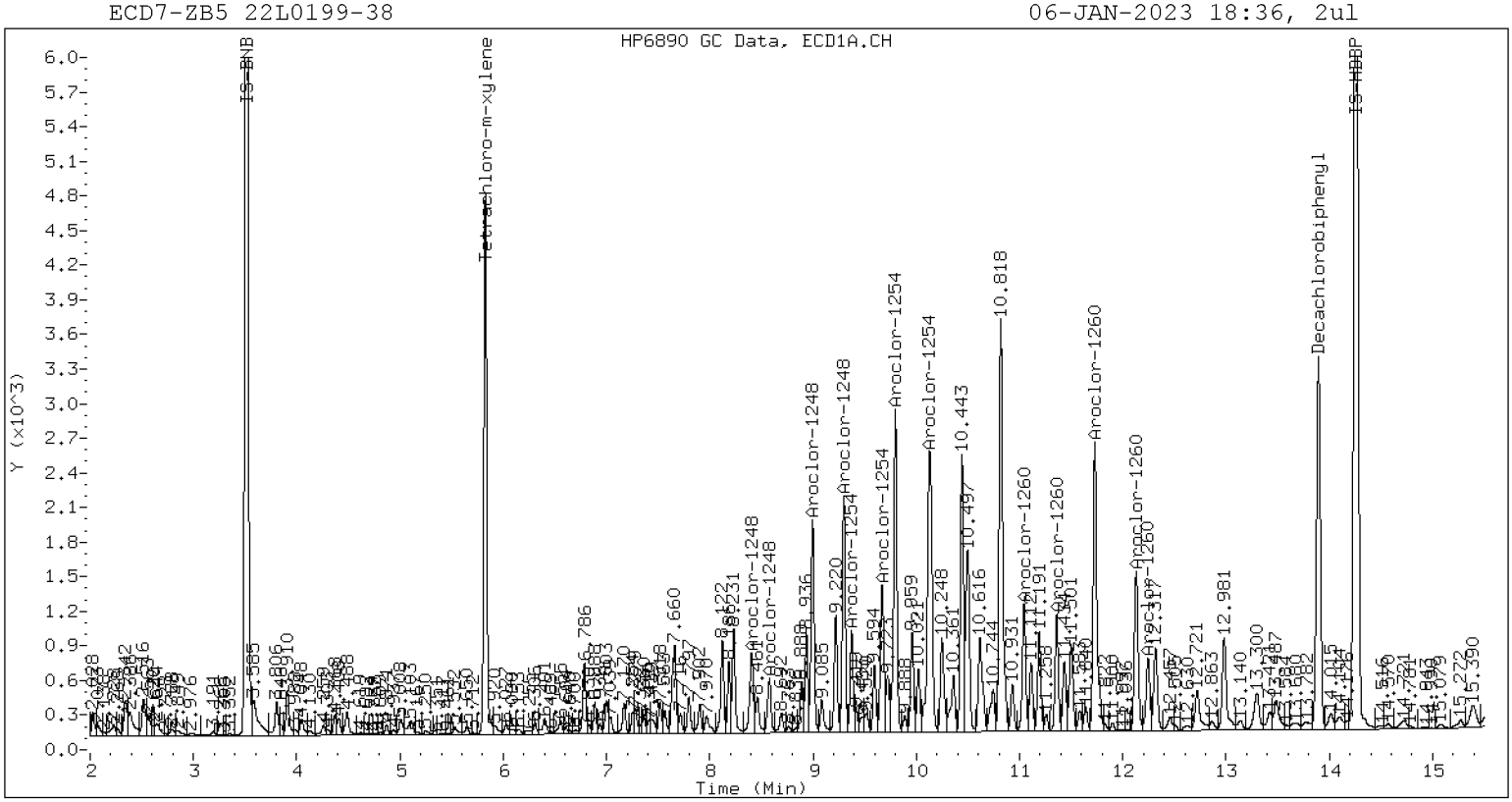
Total PCB Area Col2 (5.810 - 14.028) = 1834619 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

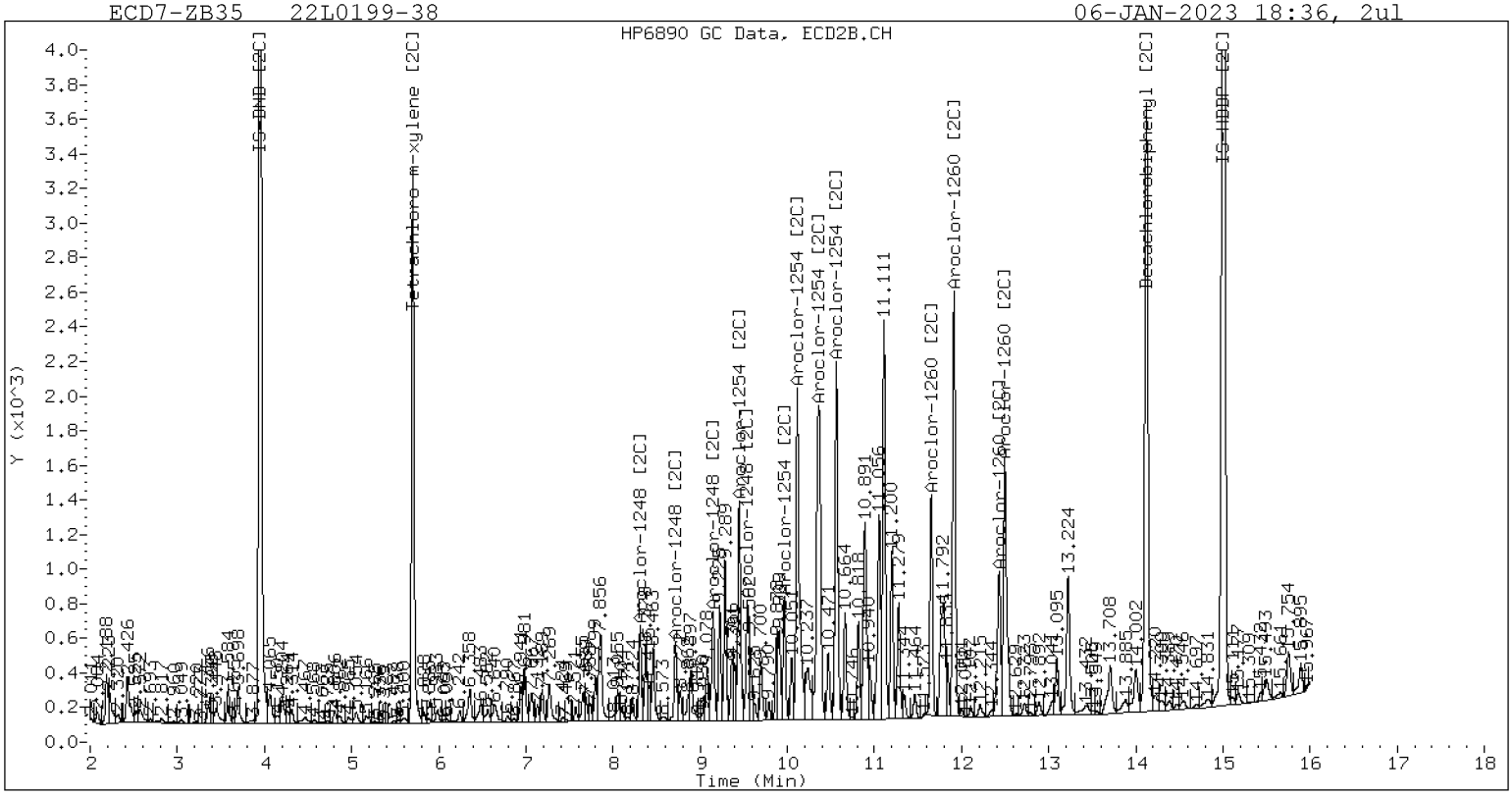
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-38 06-JAN-2023 18:36, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-38 06-JAN-2023 18:36, 2ul

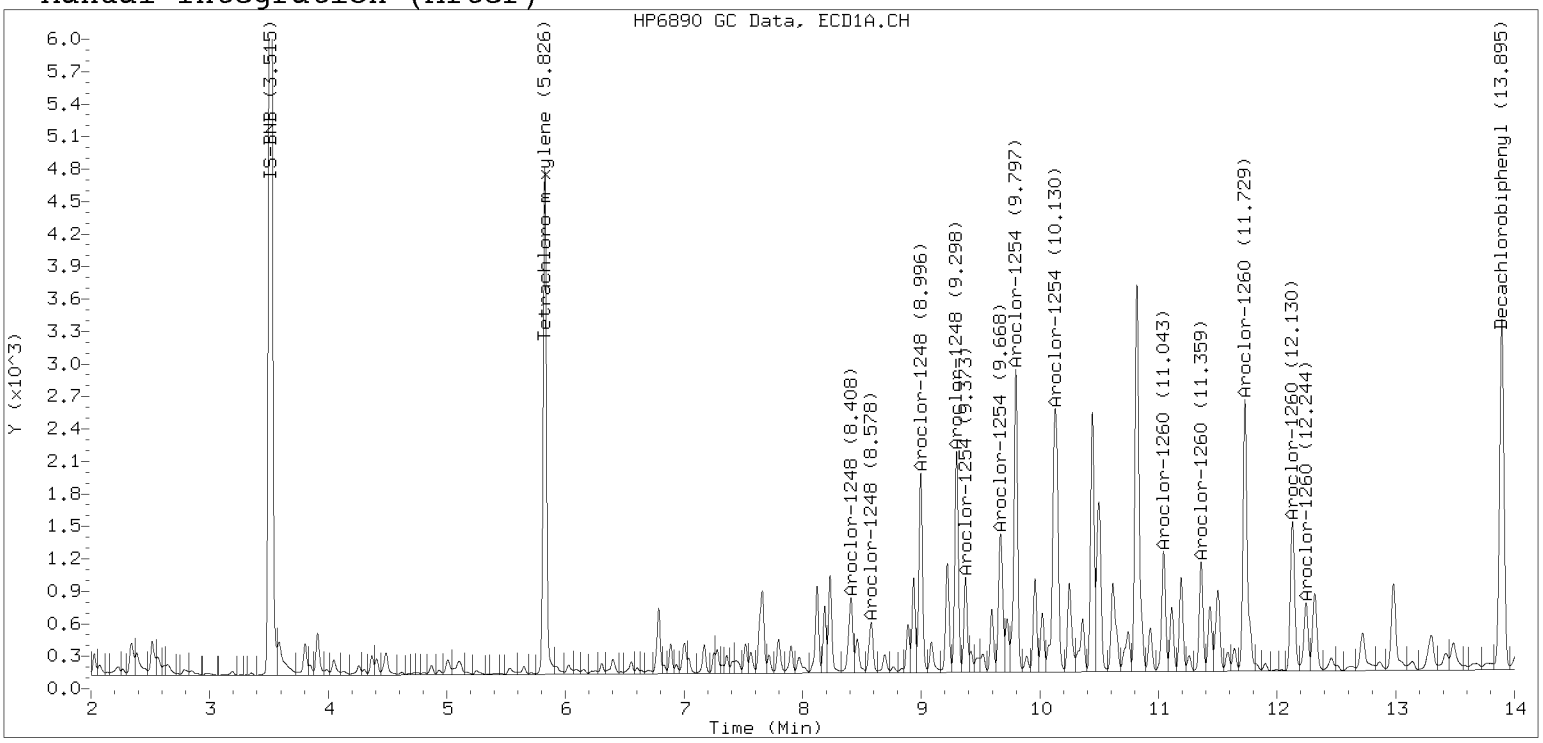


ZB-35 Manual Integration: YES

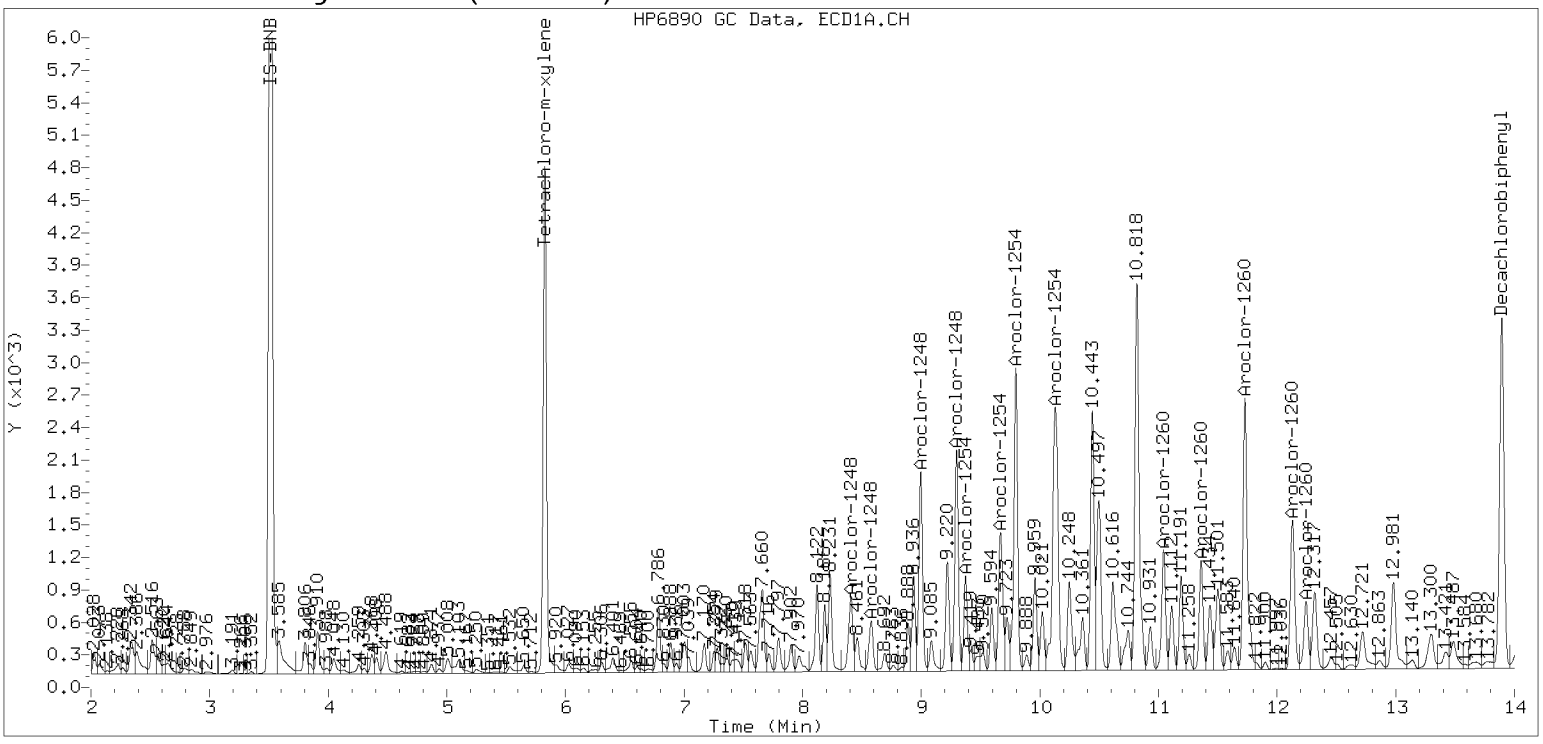
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052387ECD7.D Injection Date: 06-JAN-2023 18:36

Manual Integration (After)



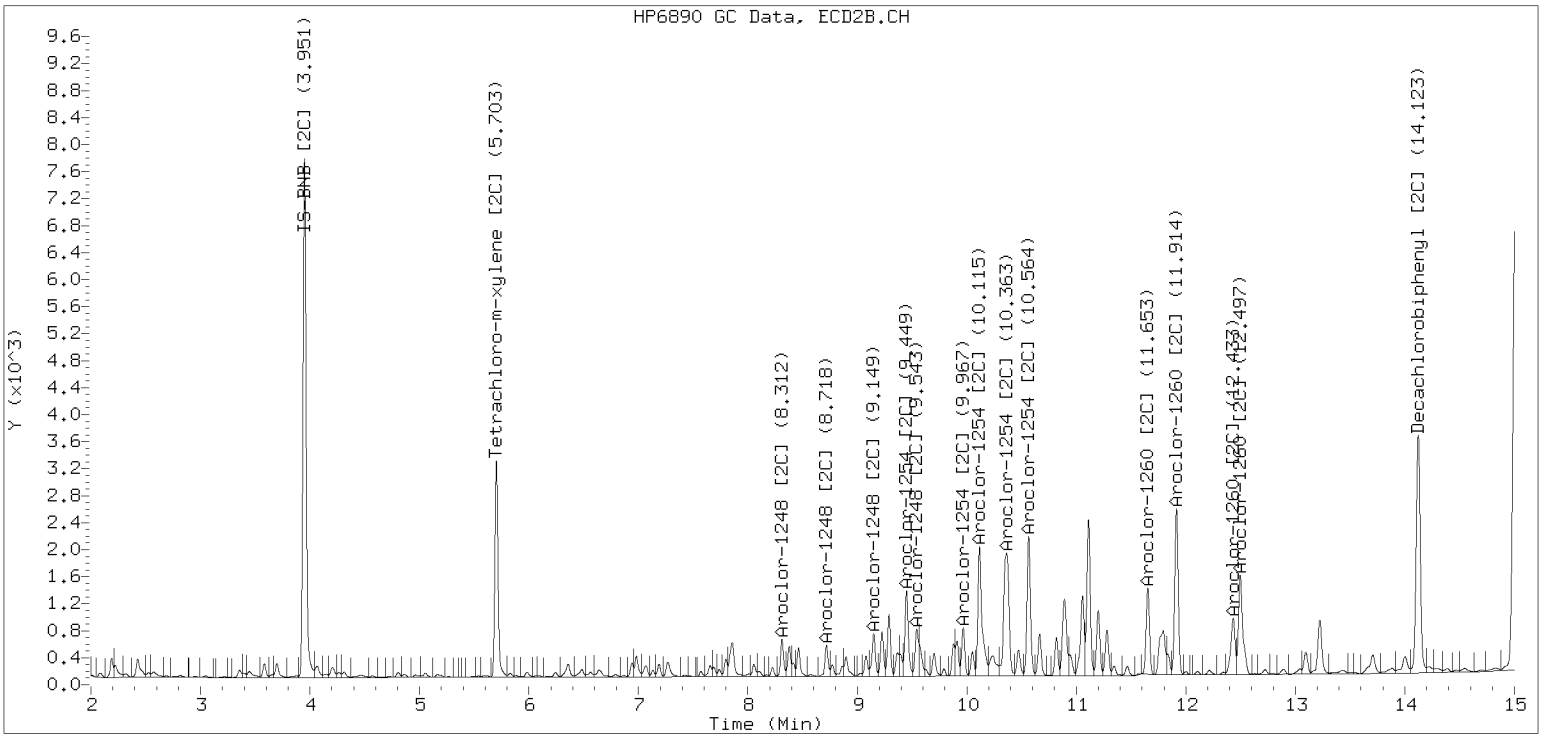
Processed Integration (Before)



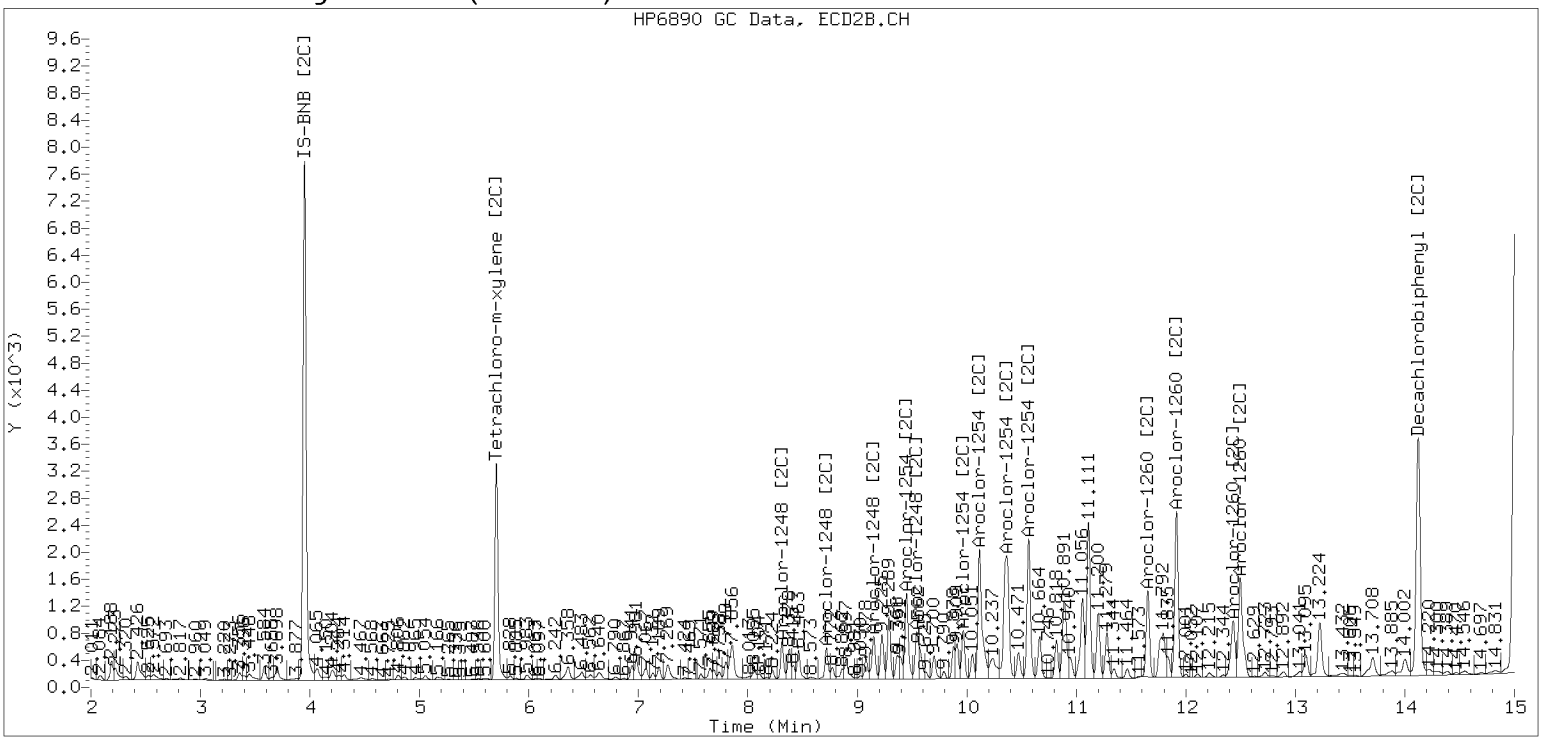
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052387ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-39 B	File ID:	01052388ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 18:57
% Solids:	57.00	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.97 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	137	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	164	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	82.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9854*	*7.55*	*94.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9854*	*5.21*	*65.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9854*	*7.04*	*88.2*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9854*	*5.95*	*74.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052388ECD7.D
Data file 2: /230105.b/230105.b/01052388ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-39
Client ID:
Injection Date: 06-JAN-2023 18:57
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.008	172518	5.702	-0.008	121328	26.1	29.8	13.2	Tetrachloro-m-xylene
13.894	-0.010	161428	14.122	-0.006	179705	37.8	35.3	7.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466110	4.1
Hexabromobiphenyl	798898	465378	-41.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	296847	19.2
Hexabromobiphenyl	362541	358943	-1.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.410	-0.014	102002	509.0	1	8.312	-0.010	86302	711.7
Aroclor-1248	2	8.578	-0.022	98028	383.1	2	8.717	-0.009	77380	606.7
Aroclor-1248	3	8.995	-0.020	257088	558.5	3	9.149	-0.024	103168	665.0
Aroclor-1248	4	9.298	-0.013	258015	1144.1	4	9.543	-0.049	138162	758.6
	Total Col1Ave (4 peaks):				648.7	Total Col2Ave (4 peaks):				685.5 RPD = 6
	Corrected Ave (3 peaks):				483.5	Corrected Ave (3 peaks):				661.1 RPD = 31
Aroclor-1254	1	9.298	-0.014	258015	628.7	1	9.448	-0.013	153486	801.9
Aroclor-1254	2	9.373	-0.019	117376	735.4	2	9.967	-0.011	77407	503.1
Aroclor-1254	3	9.664	-0.020	141521	546.0	3	10.114	-0.016	270994	819.3
Aroclor-1254	4	9.798	-0.021	345858	684.5	4	10.351	-0.027	308239	899.9
Aroclor-1254	5	10.136	-0.039	372172	1074.6	5	10.564	-0.011	177558	1074.7
	Total Col1Ave (5 peaks):				733.8	Total Col2Ave (5 peaks):				819.8 RPD = 11
	Corrected Ave (4 peaks):				648.7	Corrected Ave (4 peaks):				756.0 RPD = 15
Aroclor-1260	1	11.044	-0.012	75201	443.9	1	11.653	-0.010	102497	541.0
Aroclor-1260	2	11.359	-0.013	64699	369.3	2	11.914	-0.013	161478	339.6
Aroclor-1260	3	11.729	-0.017	175896	382.1	3	12.433	-0.010	52199	412.3
Aroclor-1260	4	12.128	-0.022	103292	440.6	4	12.498	-0.010	111253	351.0
Aroclor-1260	5	12.244	-0.012	41281	430.1	NS	---			----
	Total Col1Ave (5 peaks):				413.2	Total Col2Ave (4 peaks):				411.0 RPD = 1
	Corrected Ave (4 peaks):				405.5	Corrected Ave (3 peaks):				367.7 RPD = 10
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 5379161 Col1 Total PCB = 1.2 ppm*

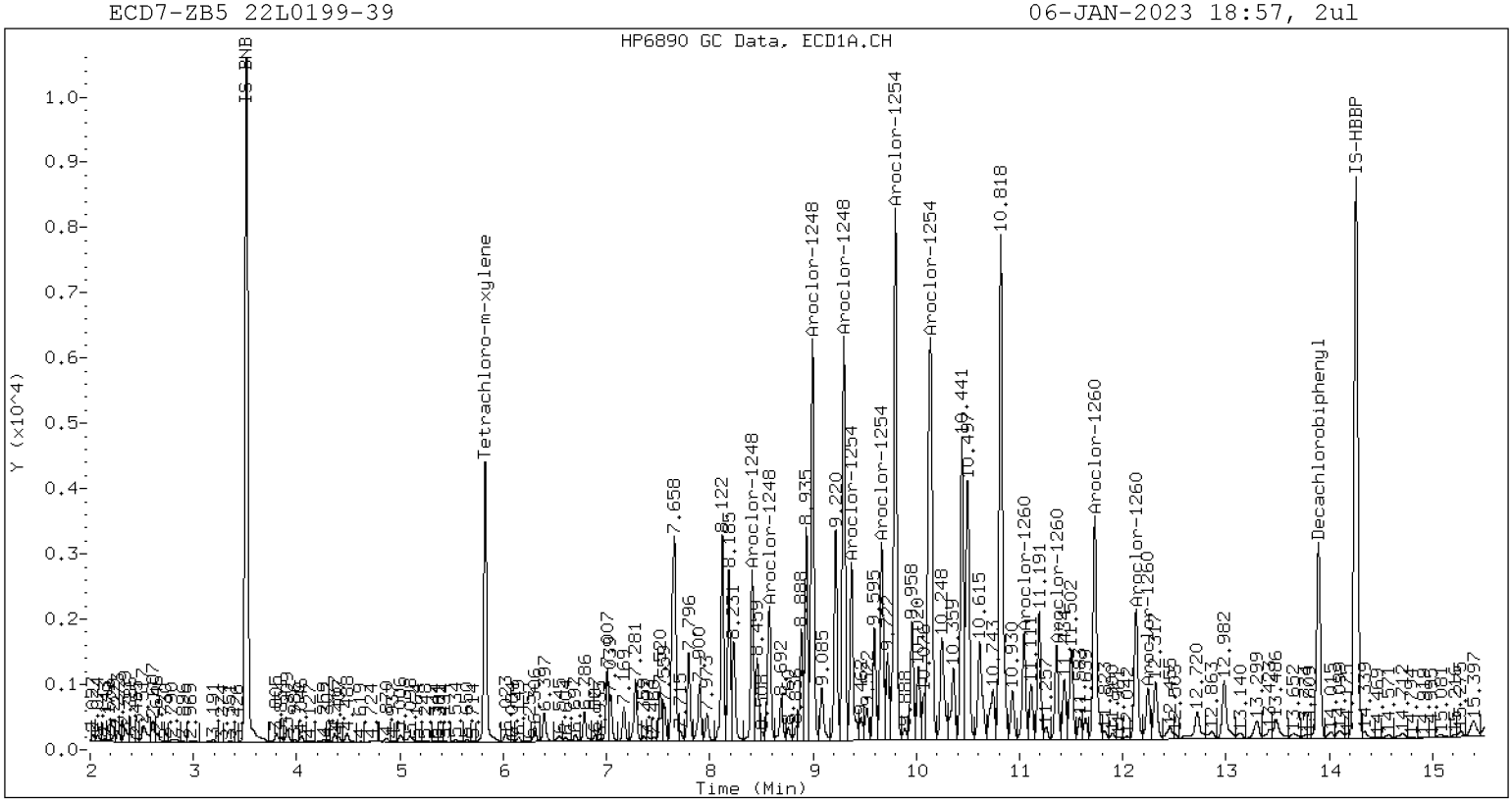
Total PCB Area Col2 (5.810 - 14.028) = 4010943 Col2 Total PCB = 1.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

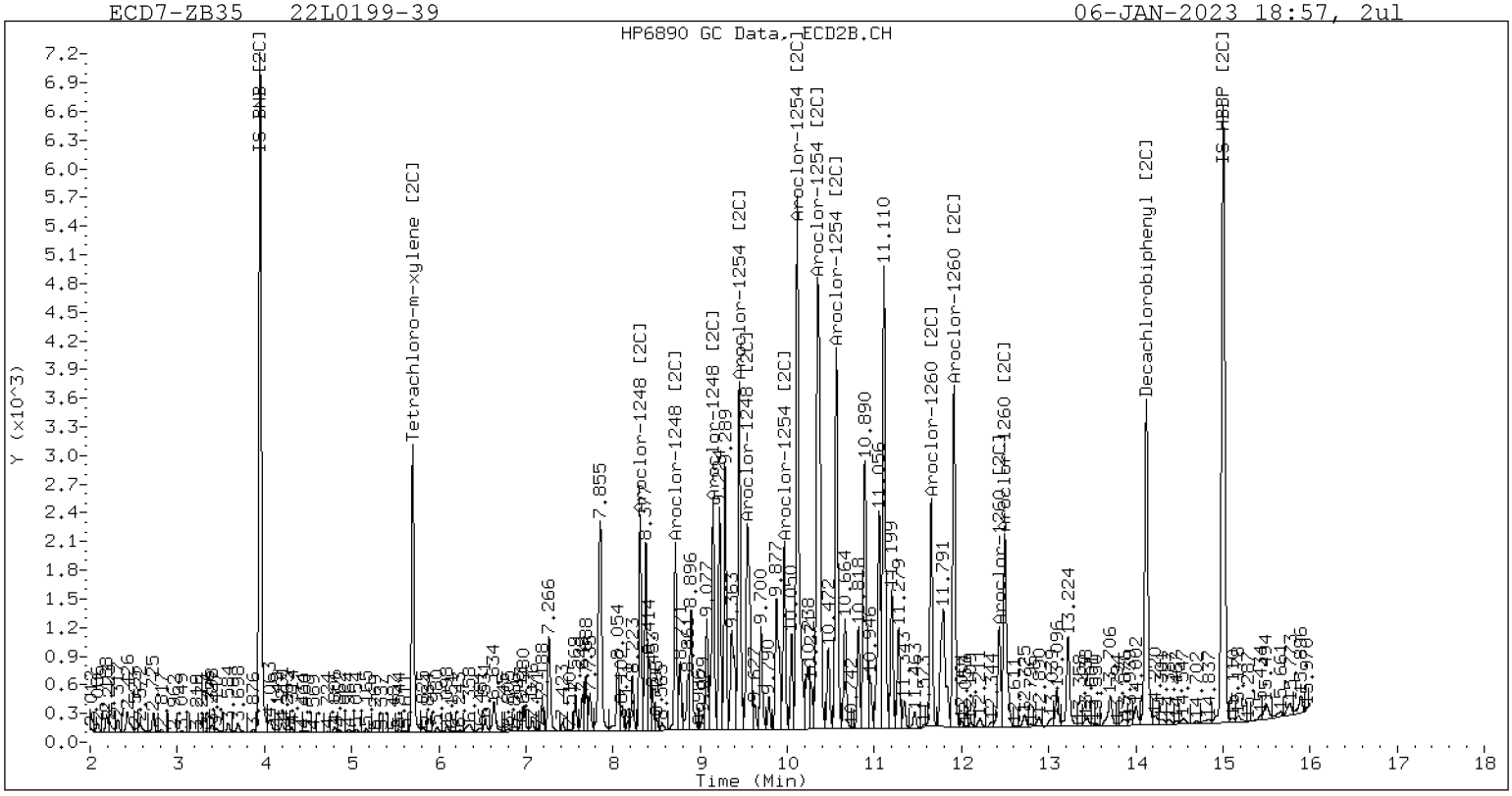
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-39 06-JAN-2023 18:57, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-39 06-JAN-2023 18:57, 2ul

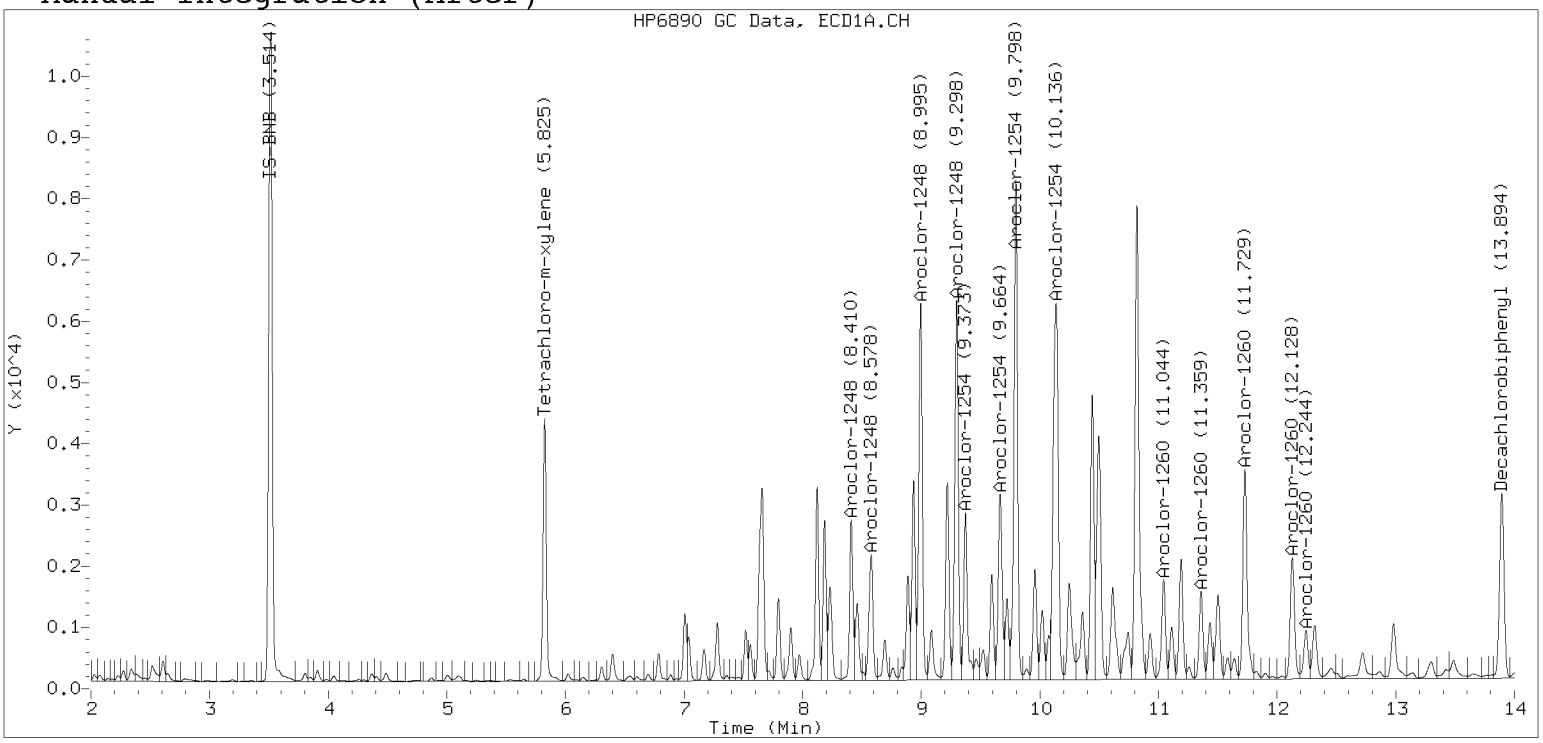


ZB-35 Manual Integration: YES

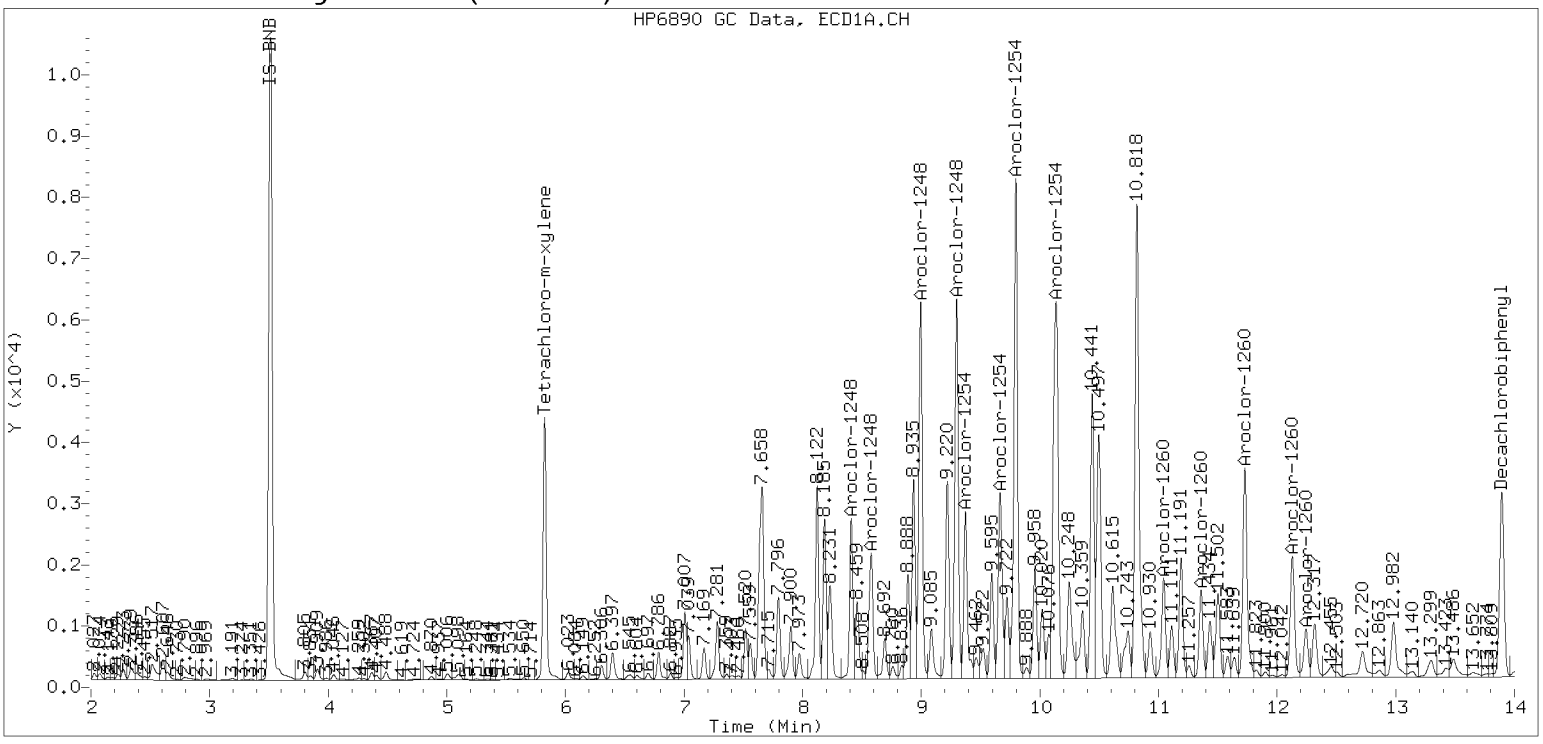
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052388ECD7.D Injection Date: 06-JAN-2023 18:57

Manual Integration (After)



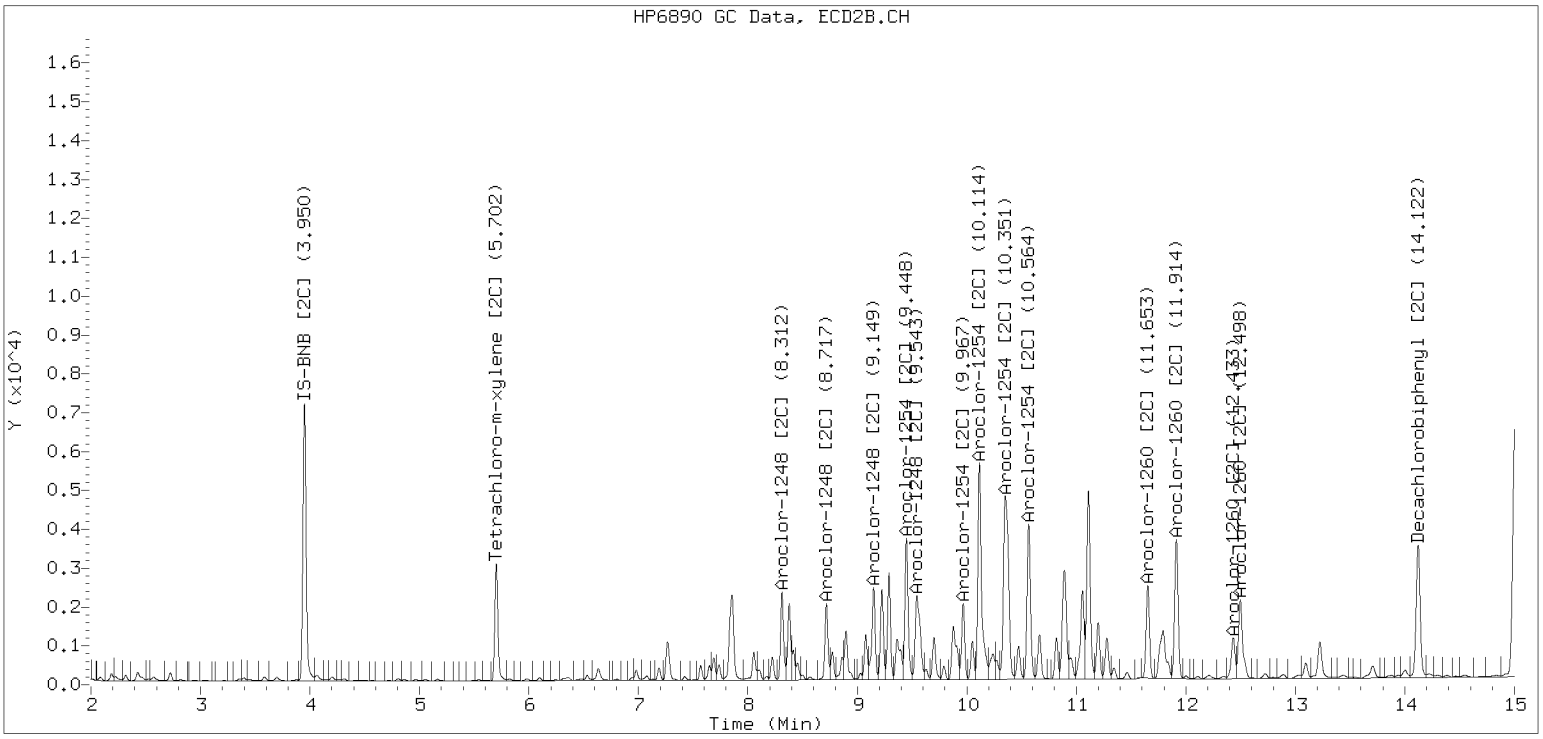
Processed Integration (Before)



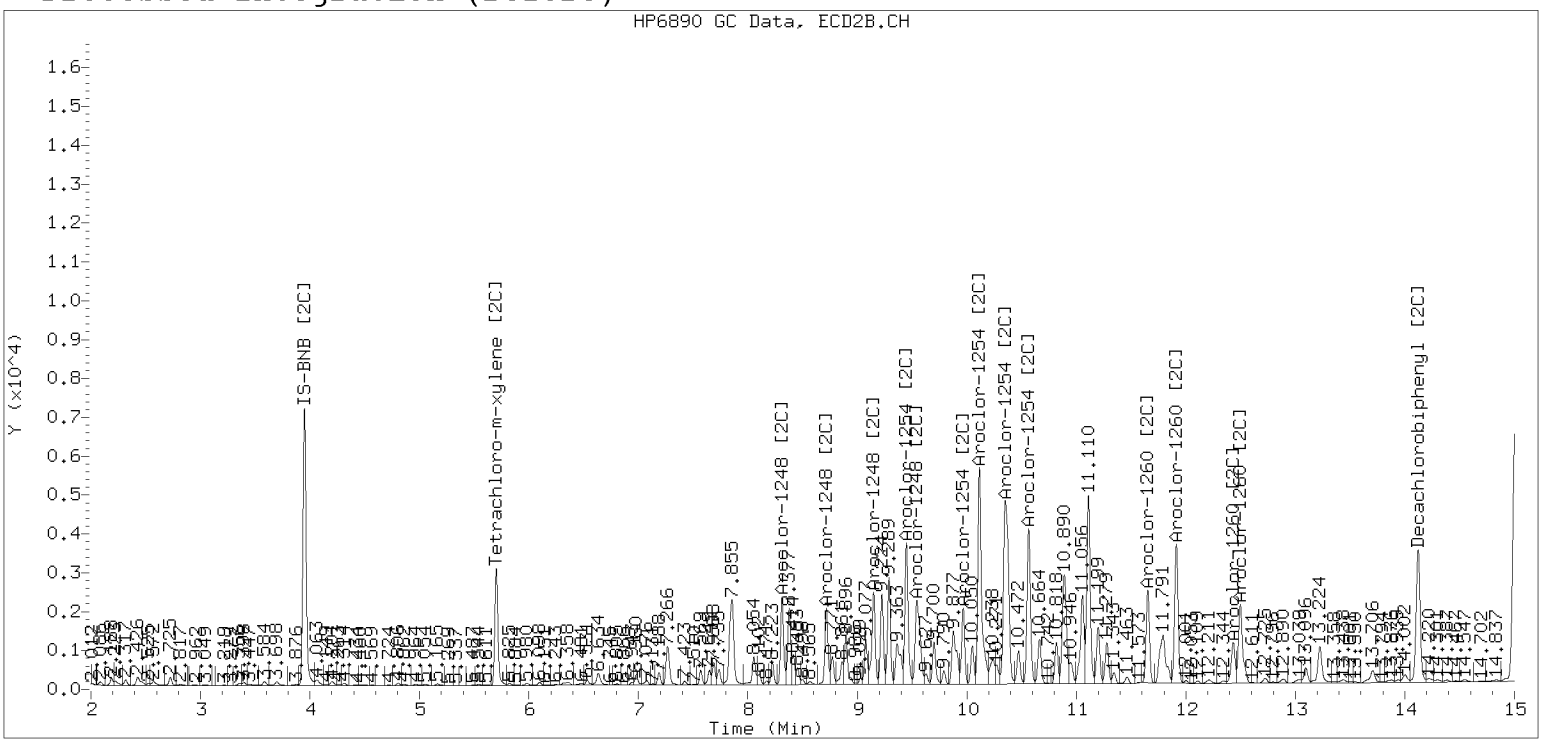
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052388ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-40 B	File ID:	01052369ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 12:16
% Solids:	56.76	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.08 g Wet / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	80.0	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	103	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	61.3	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9792*	*8.55*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9792*	*5.66*	*71.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9792*	*7.97*	*99.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9792*	*6.31*	*79.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052369ECD7.D
Data file 2: /230105.b/230105.b/01052369ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-40
Client ID:
Injection Date: 06-JAN-2023 12:16
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.006	175982	5.703	-0.007	125529	28.4	31.6	10.7	Tetrachloro-m-xylene
13.894	-0.010	168244	14.122	-0.006	185894	42.8	39.9	7.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	437512	-2.3
Hexabromobiphenyl	798898	428453	-46.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	289720	16.3
Hexabromobiphenyl	362541	327885	-9.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.411	-0.012	59986	318.9	1	8.313	-0.009	46248	390.7
Aroclor-1248	2	8.578	-0.021	53078	221.0	2	8.718	-0.008	40599	326.1
Aroclor-1248	3	8.995	-0.020	151934	351.6	3	9.149	-0.023	59234	391.2
Aroclor-1248	4	9.299	-0.013	150978	713.3	4	9.543	-0.049	86410	486.1
		Total Col1Ave (4 peaks):			401.2	Total Col2Ave (4 peaks):				398.5 RPD = 1
		Corrected Ave (3 peaks):			297.2	Corrected Ave (3 peaks):				369.4 RPD = 22
Aroclor-1254	1	9.299	-0.014	150978	391.9	1	9.449	-0.012	95188	509.6
Aroclor-1254	2	9.374	-0.018	68903	459.9	2	9.967	-0.011	39378	262.2
Aroclor-1254	3	9.668	-0.016	87196	358.4	3	10.116	-0.015	165534	512.8
Aroclor-1254	4	9.797	-0.022	208096	438.8	4	10.353	-0.025	188732	564.5
Aroclor-1254	5	10.136	-0.039	227632	700.2	5	10.565	-0.011	119425	740.7
		Total Col1Ave (5 peaks):			469.8	Total Col2Ave (5 peaks):				518.0 RPD = 10
		Corrected Ave (4 peaks):			412.3	Corrected Ave (4 peaks):				462.3 RPD = 11
Aroclor-1260	1	11.044	-0.012	55029	352.8	1	11.653	-0.009	66461	384.0
Aroclor-1260	2	11.359	-0.013	44951	278.7	2	11.914	-0.013	109718	252.6
Aroclor-1260	3	11.729	-0.017	119007	280.8	3	12.433	-0.010	38005	328.6
Aroclor-1260	4	12.129	-0.021	68070	315.4	4	12.497	-0.011	76308	263.6
Aroclor-1260	5	12.244	-0.012	29621	335.3	NS	---			----
		Total Col1Ave (5 peaks):			312.6	Total Col2Ave (4 peaks):				307.2 RPD = 2
		Corrected Ave (4 peaks):			302.5	Corrected Ave (3 peaks):				281.6 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 3508591 Col1 Total PCB = 0.8 ppm*

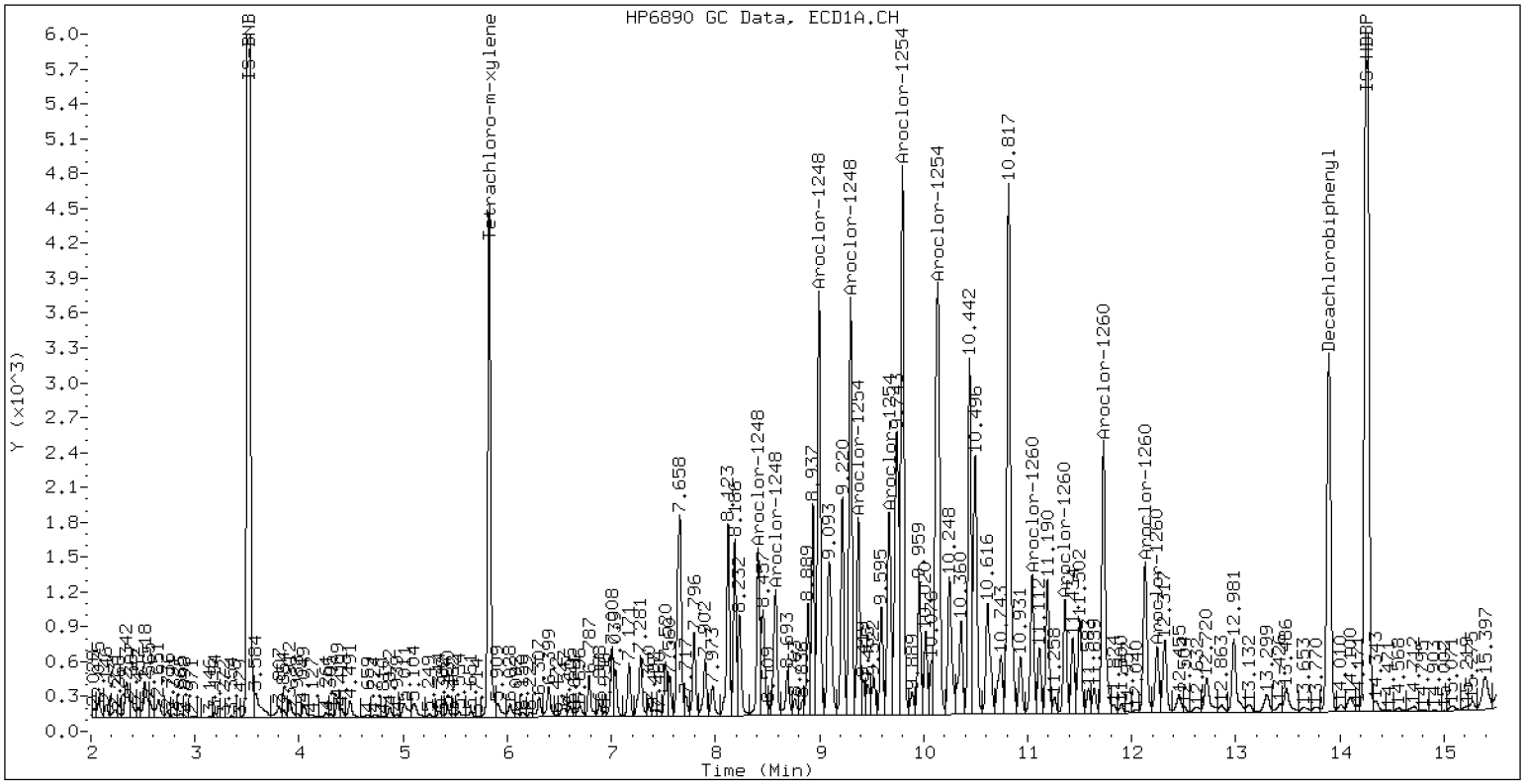
Total PCB Area Col2 (5.810 - 14.028) = 2666053 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

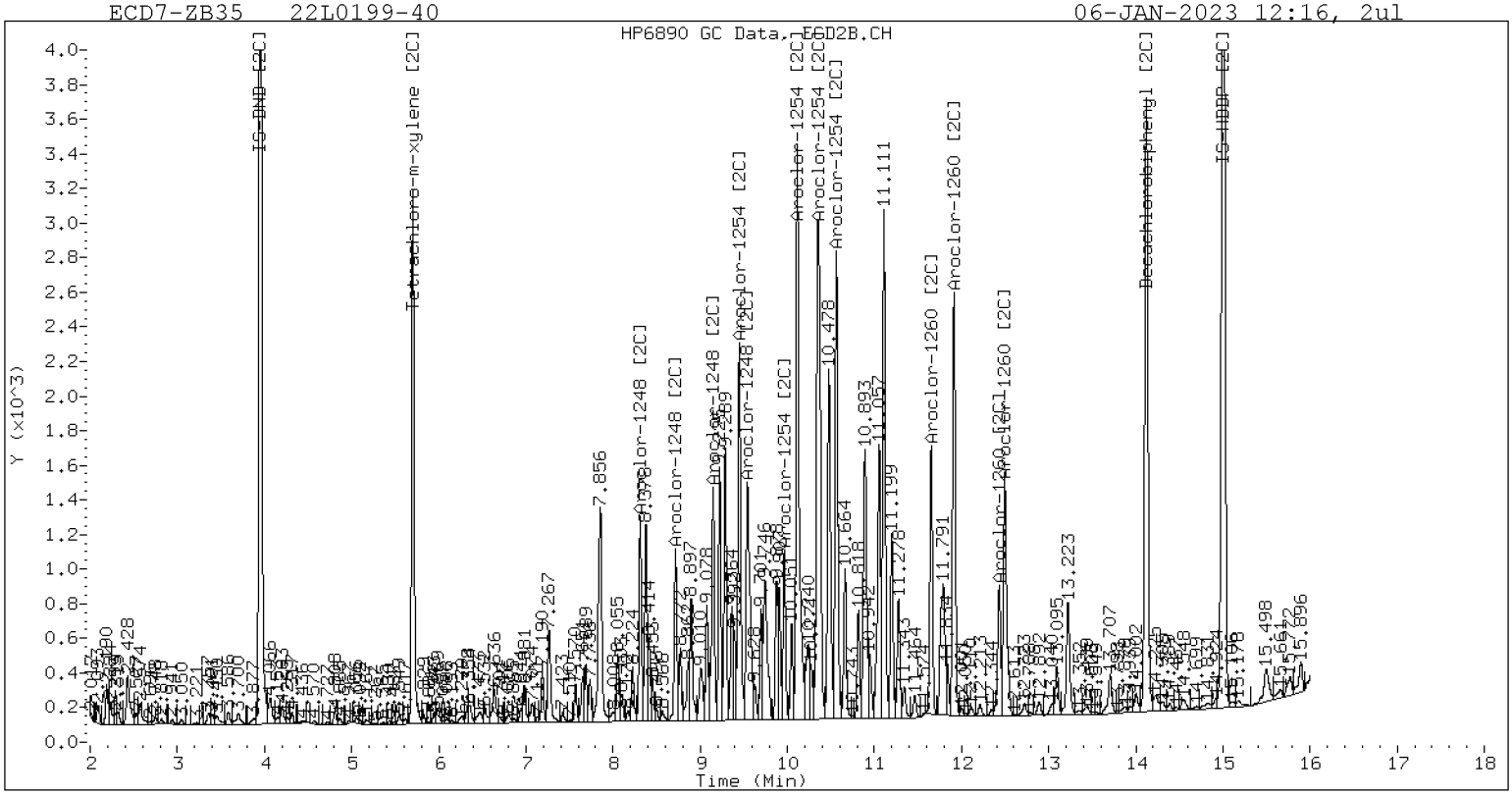
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-40 06-JAN-2023 12:16, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-40 06-JAN-2023 12:16, 2ul

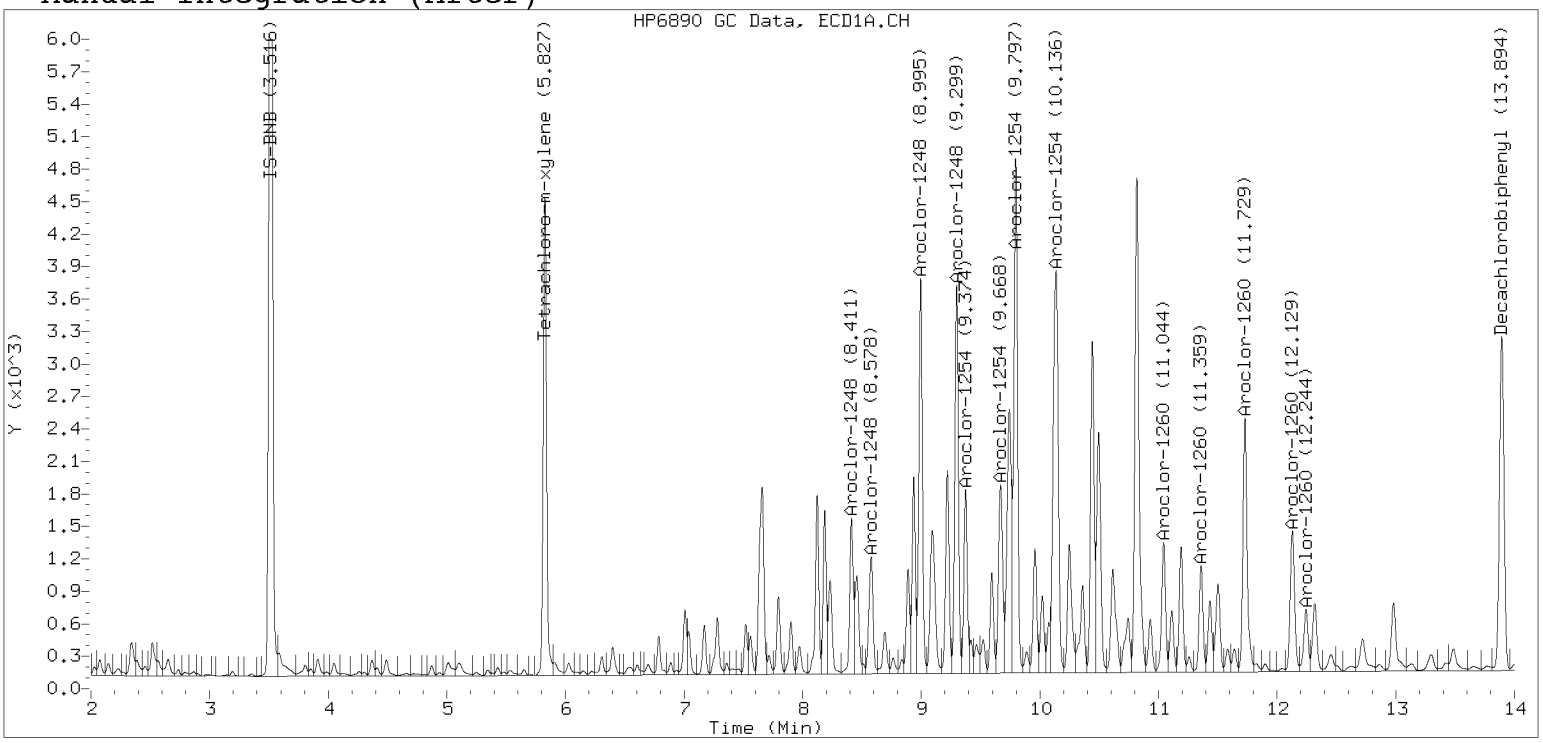


ZB-35 Manual Integration: YES

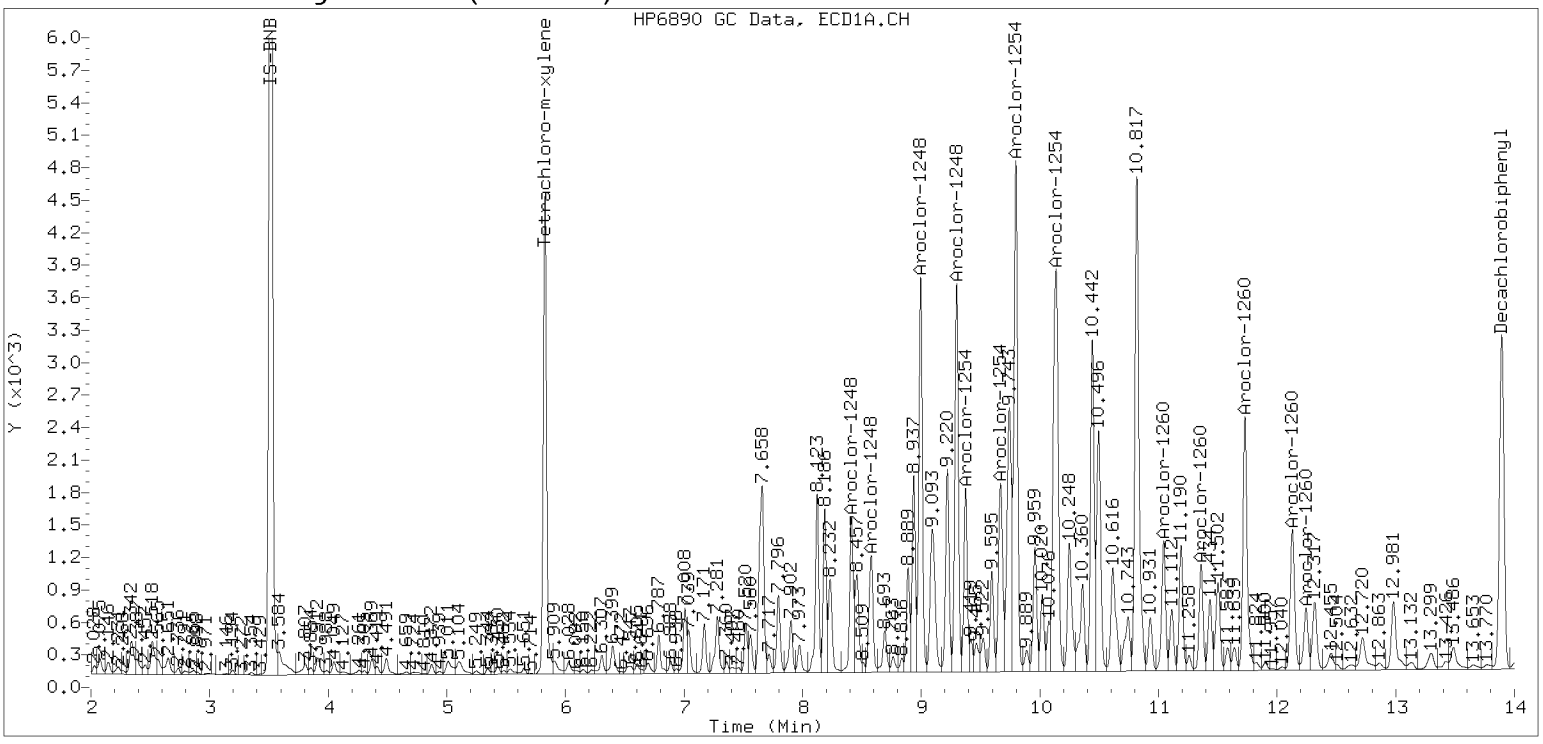
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052369ECD7.D Injection Date: 06-JAN-2023 12:16

Manual Integration (After)



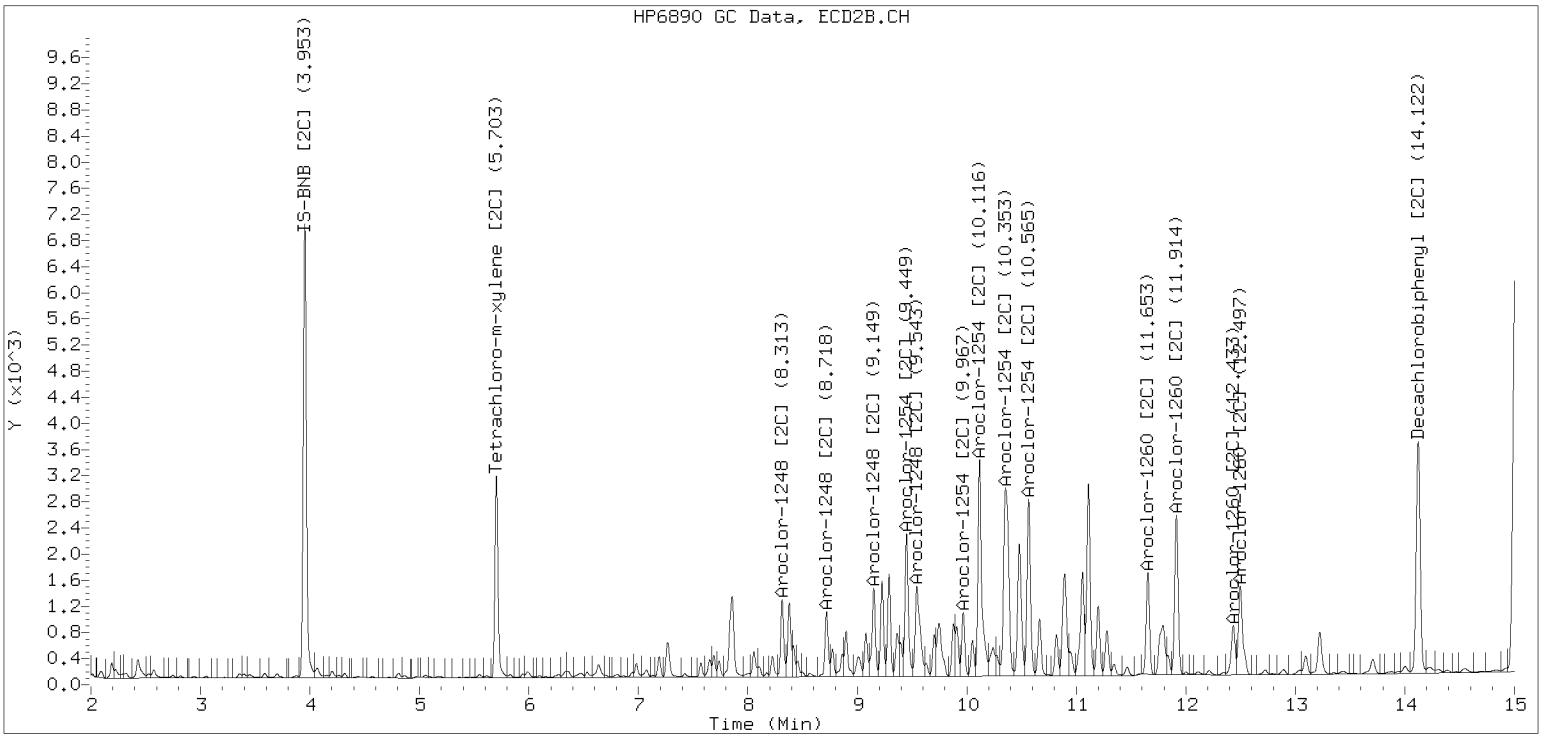
Processed Integration (Before)



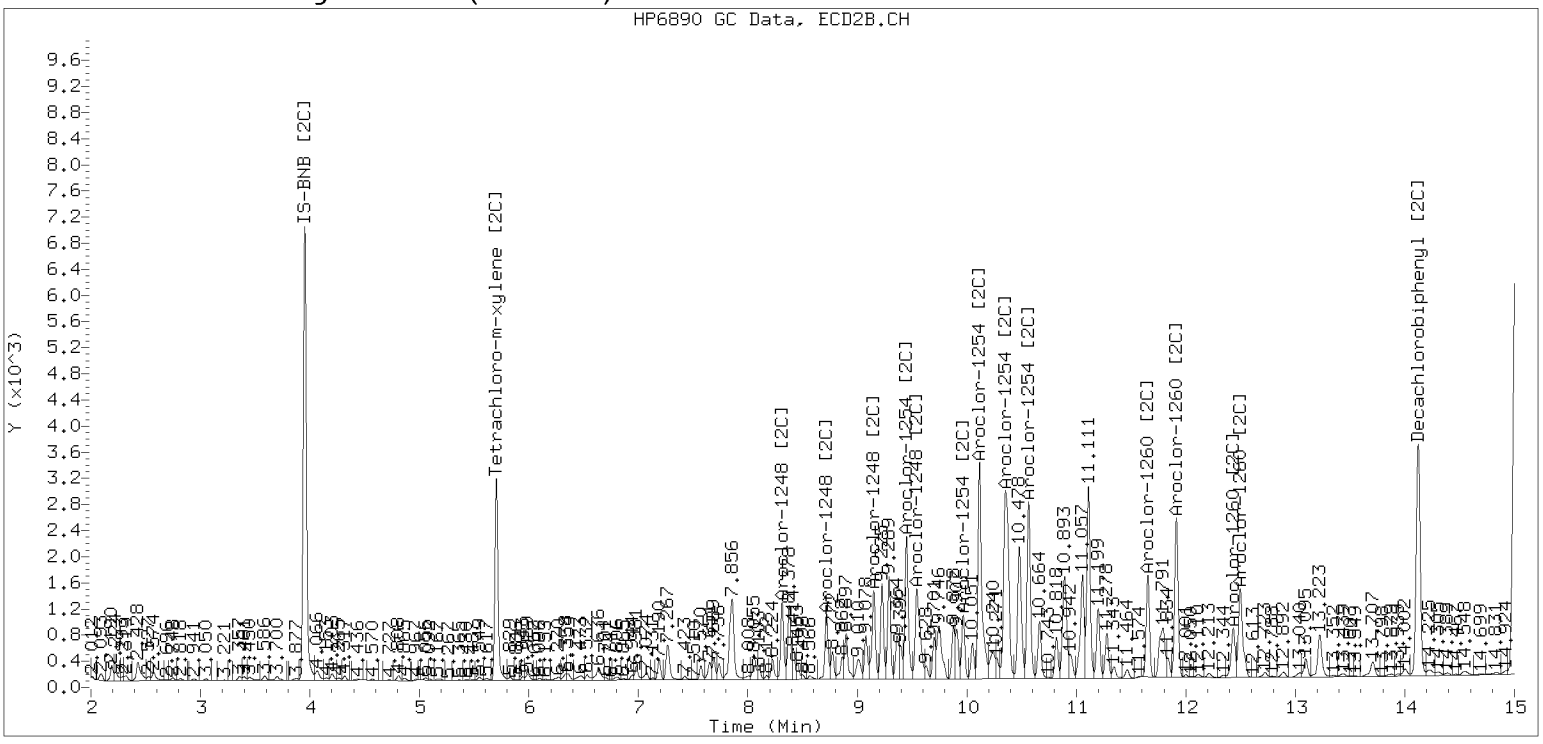
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052369ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-41 B	File ID:	01052370ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/06/23 12:37
% Solids:	55.35	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.59 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	239	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	208	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	81.4	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9977*	*9.35*	*117*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9977*	*6.43*	*80.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9977*	*7.91*	*98.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9977*	*6.64*	*83.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052370ECD7.D
Data file 2: /230105.b/230105.b/01052370ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-41RE2
Client ID:
Injection Date: 06-JAN-2023 12:37
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	44550	5.705	-0.005	29876	6.4	6.6	3.1	Tetrachloro-m-xylene
13.896	-0.008	52389	14.122	-0.005	47290	9.4	7.9	16.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	488640	9.2
Hexabromobiphenyl	798898	610961	-23.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	328387	31.8
Hexabromobiphenyl	362541	421166	16.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.010	46228	220.0	1	8.314	-0.007	38849	289.6
Aroclor-1248	2	8.581	-0.018	45431	169.4	2	8.720	-0.007	32744	232.1
Aroclor-1248	3	8.999	-0.017	94598	196.0	3	9.153	-0.019	36284	211.4
Aroclor-1248	4	9.300	-0.011	84186	356.1	4	9.546	-0.046	44798	222.3
		Total Col1Ave (4 peaks):			235.4		Total Col2Ave (4 peaks):			238.9 RPD = 1
		Corrected Ave (3 peaks):			195.1		Corrected Ave (3 peaks):			221.9 RPD = 13
Aroclor-1254	1	9.300	-0.012	84186	195.7	1	9.451	-0.010	45065	212.8
Aroclor-1254	2	9.376	-0.016	42356	253.1	2	9.968	-0.009	18230	107.1
Aroclor-1254	3	9.670	-0.015	40900	150.5	3	10.118	-0.012	83144	227.2
Aroclor-1254	4	9.801	-0.017	112670	212.7	4	10.361	-0.017	87322	230.4
Aroclor-1254	5	10.145	-0.030	63495	174.9	5	10.566	-0.009	47655	260.7
		Total Col1Ave (5 peaks):			197.4		Total Col2Ave (5 peaks):			207.7 RPD = 5
		Corrected Ave (4 peaks):			183.4		Corrected Ave (4 peaks):			194.4 RPD = 6
Aroclor-1260	1	11.046	-0.010	23521	105.8	1	11.655	-0.007	24402	109.8
Aroclor-1260	2	11.362	-0.011	18236	79.3	2	11.916	-0.011	35173	63.1
Aroclor-1260	3	11.731	-0.015	45451	75.2	3	12.434	-0.009	12334	83.0
Aroclor-1260	4	12.133	-0.018	29349	95.4	4	12.498	-0.010	25918	69.7
Aroclor-1260	5	12.246	-0.010	14438	114.6	NS	---			----
		Total Col1Ave (5 peaks):			94.0		Total Col2Ave (4 peaks):			81.4 RPD = 14
		Corrected Ave (4 peaks):			88.9		Corrected Ave (3 peaks):			71.9 RPD = 21
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 1956925 Col1 Total PCB = 0.4 ppm*

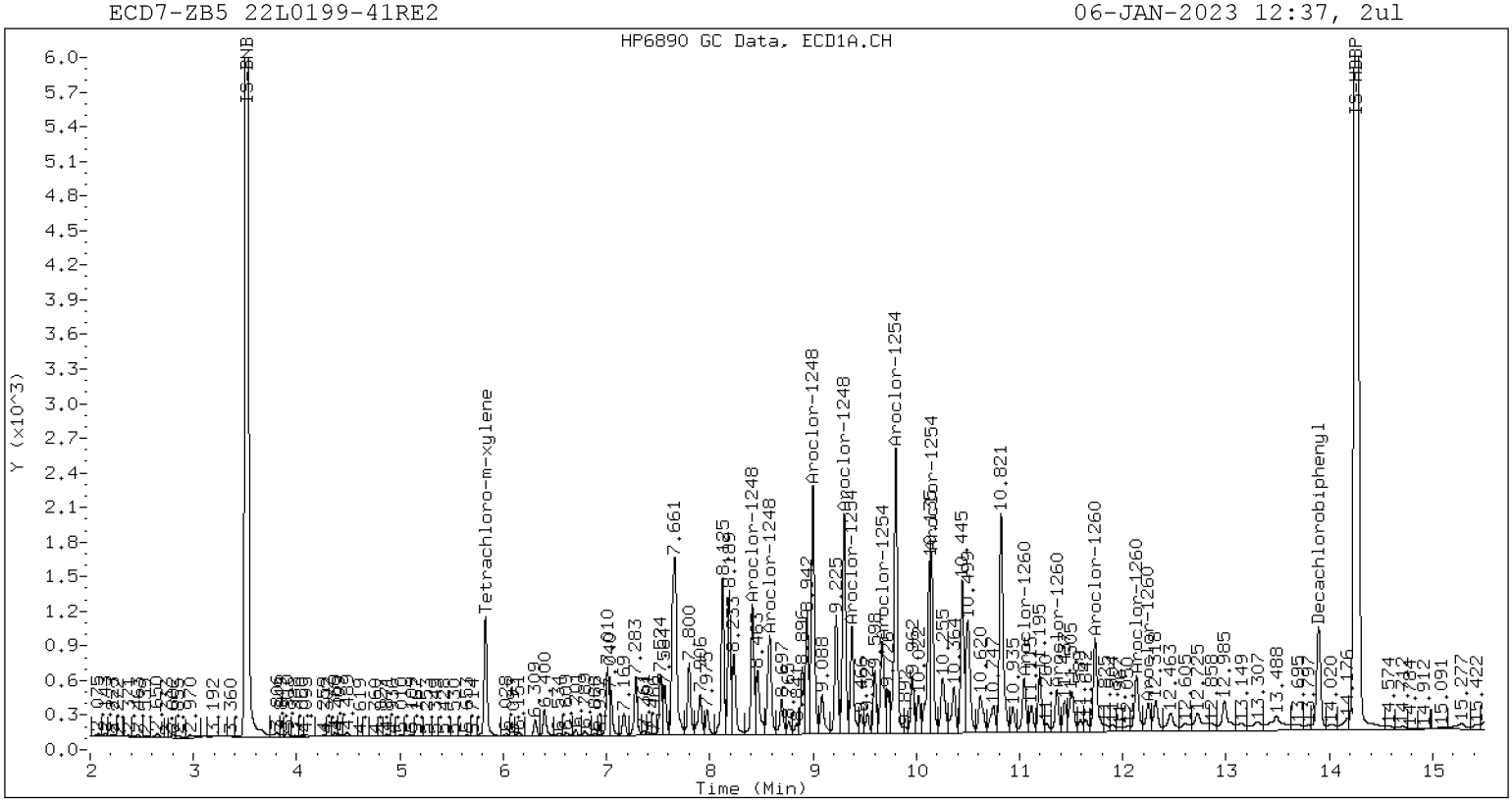
Total PCB Area Col2 (5.810 - 14.028) = 1289026 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

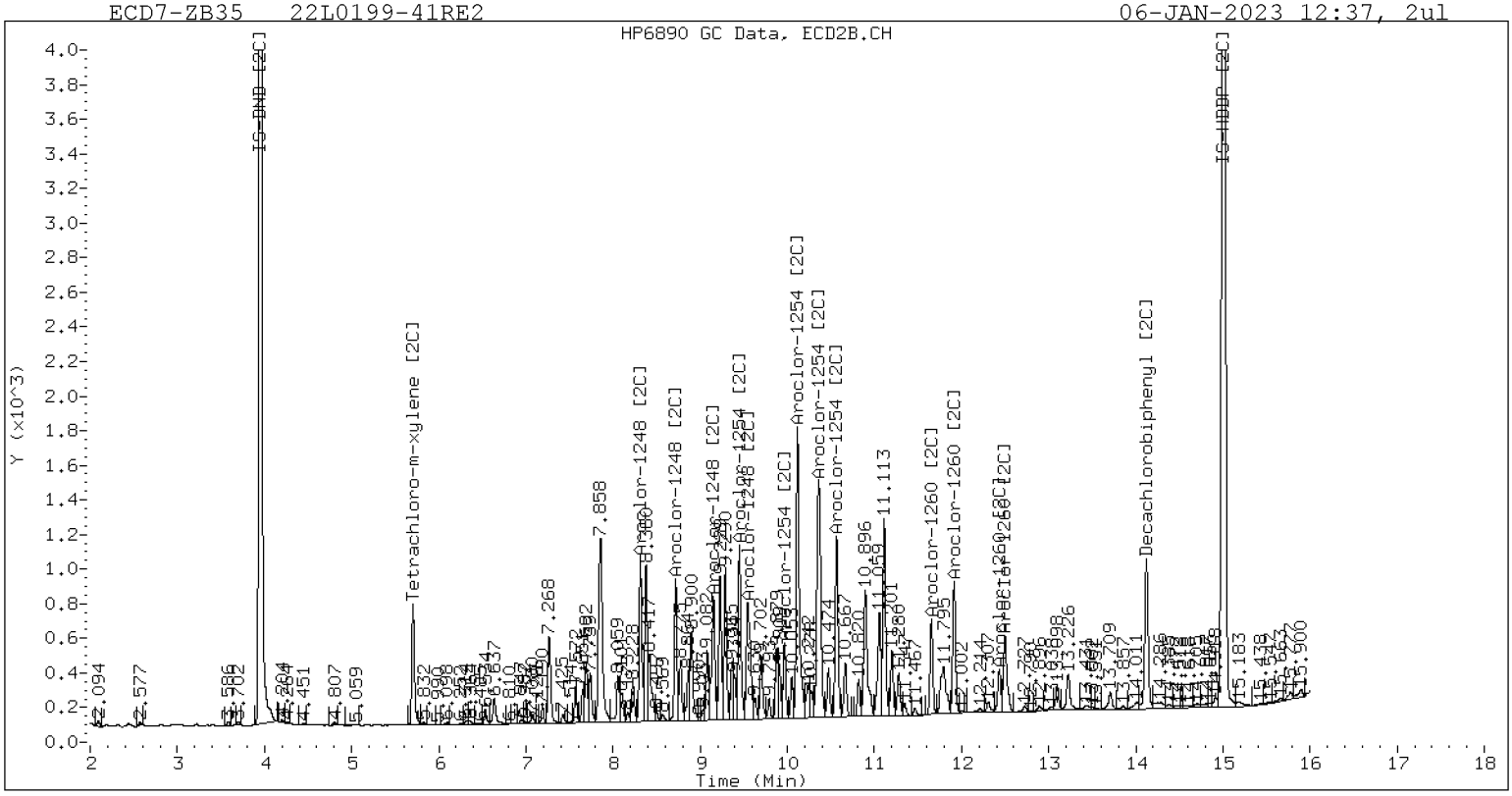
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-41RE2 06-JAN-2023 12:37, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-41RE2 06-JAN-2023 12:37, 2ul

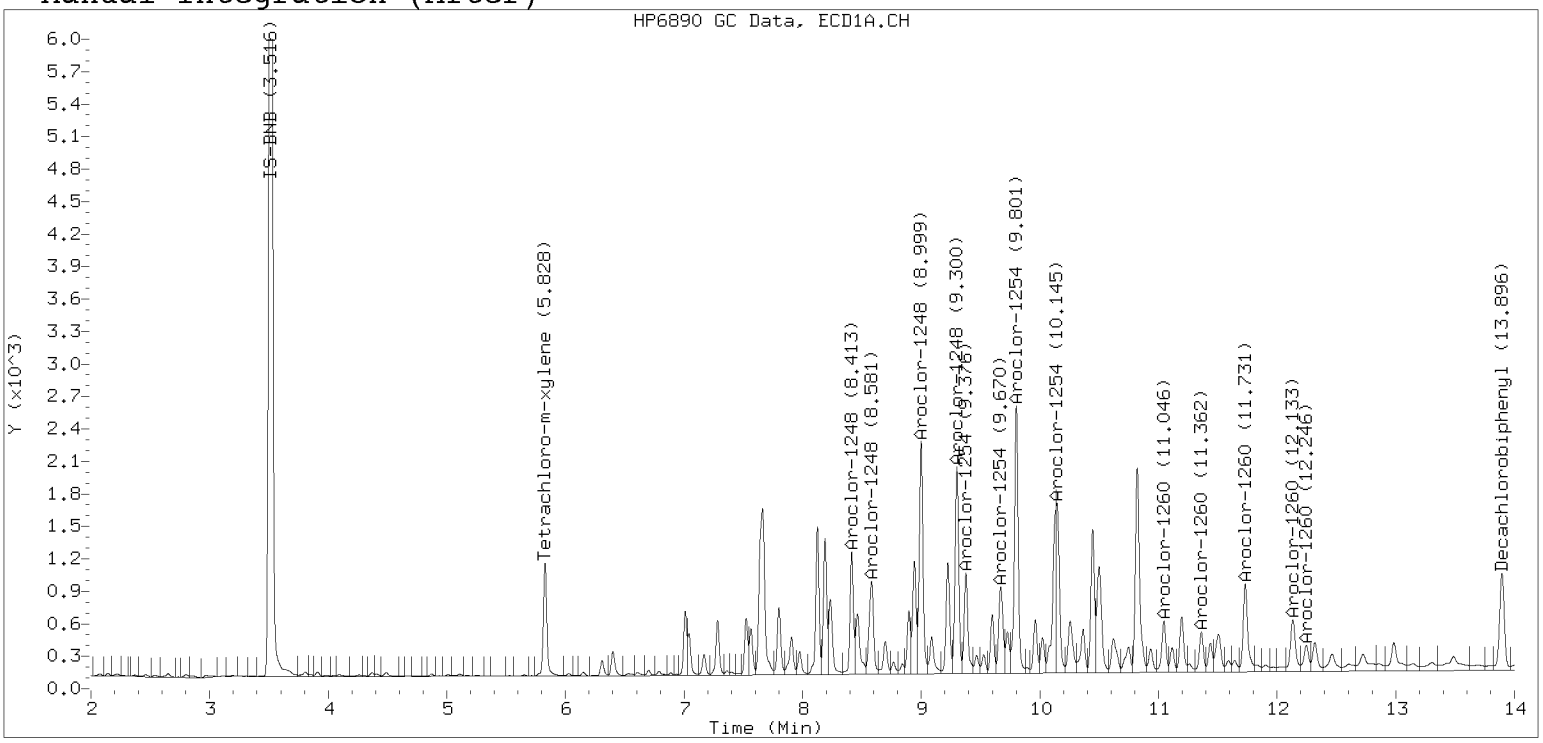


ZB-35 Manual Integration: YES

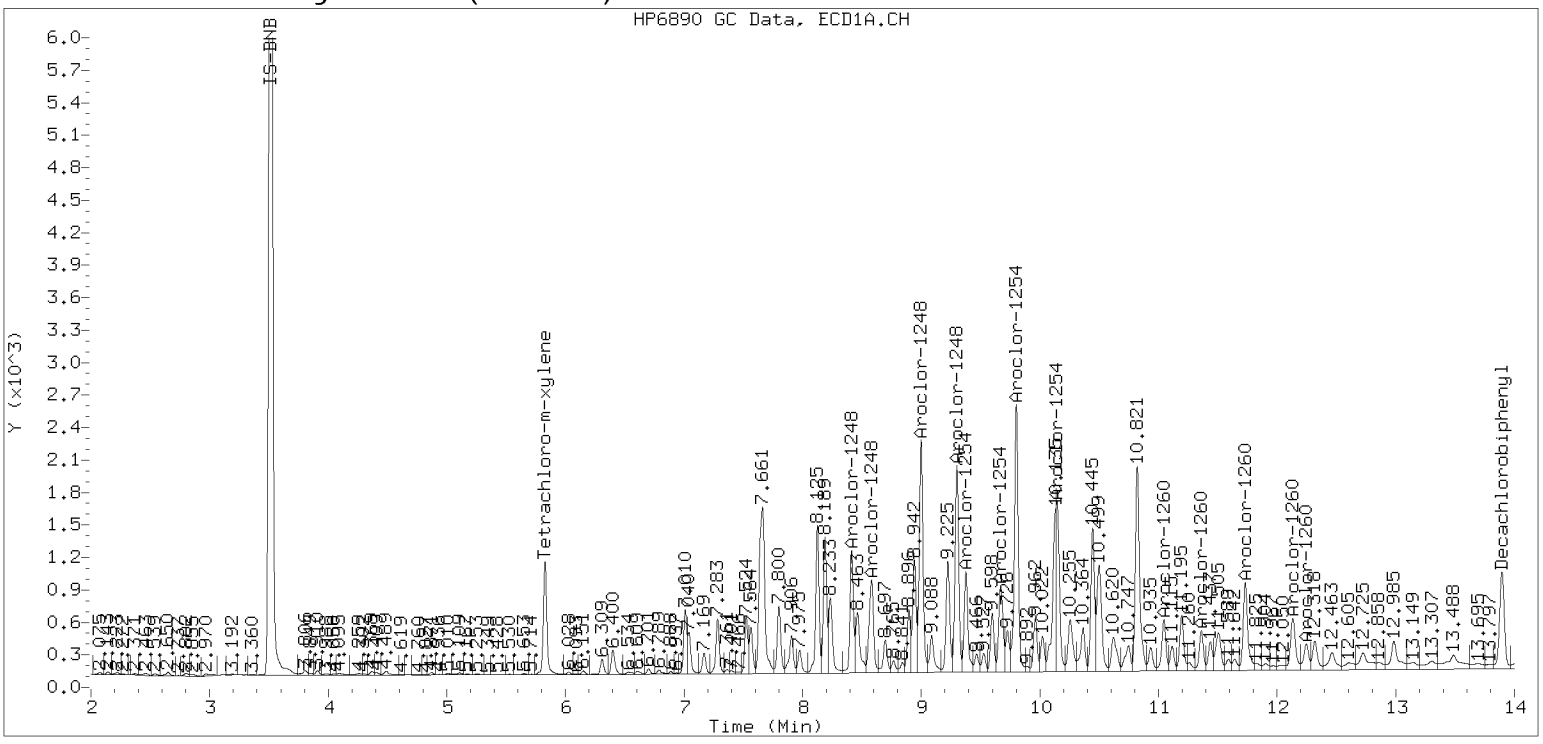
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052370ECD7.D Injection Date: 06-JAN-2023 12:37

Manual Integration (After)



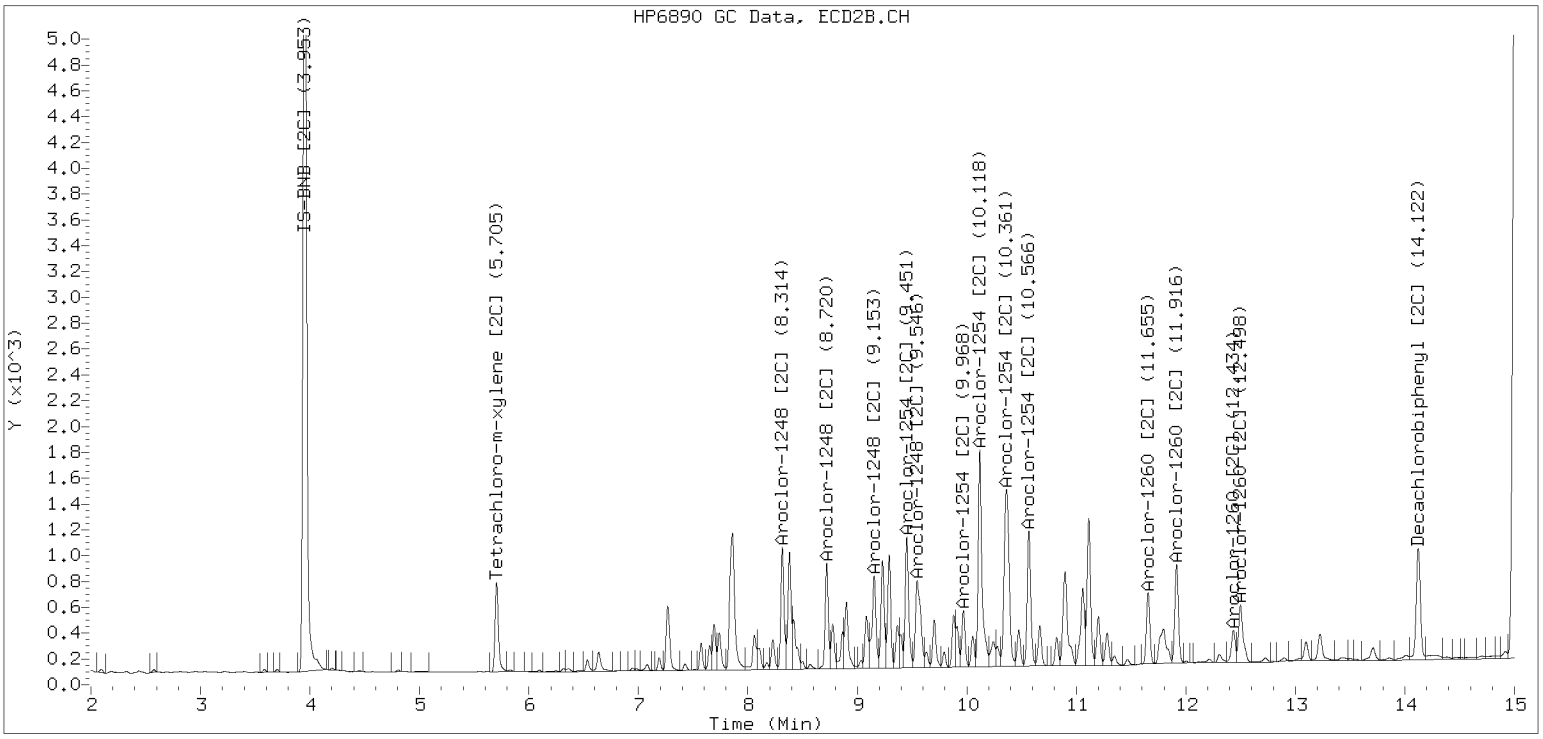
Processed Integration (Before)



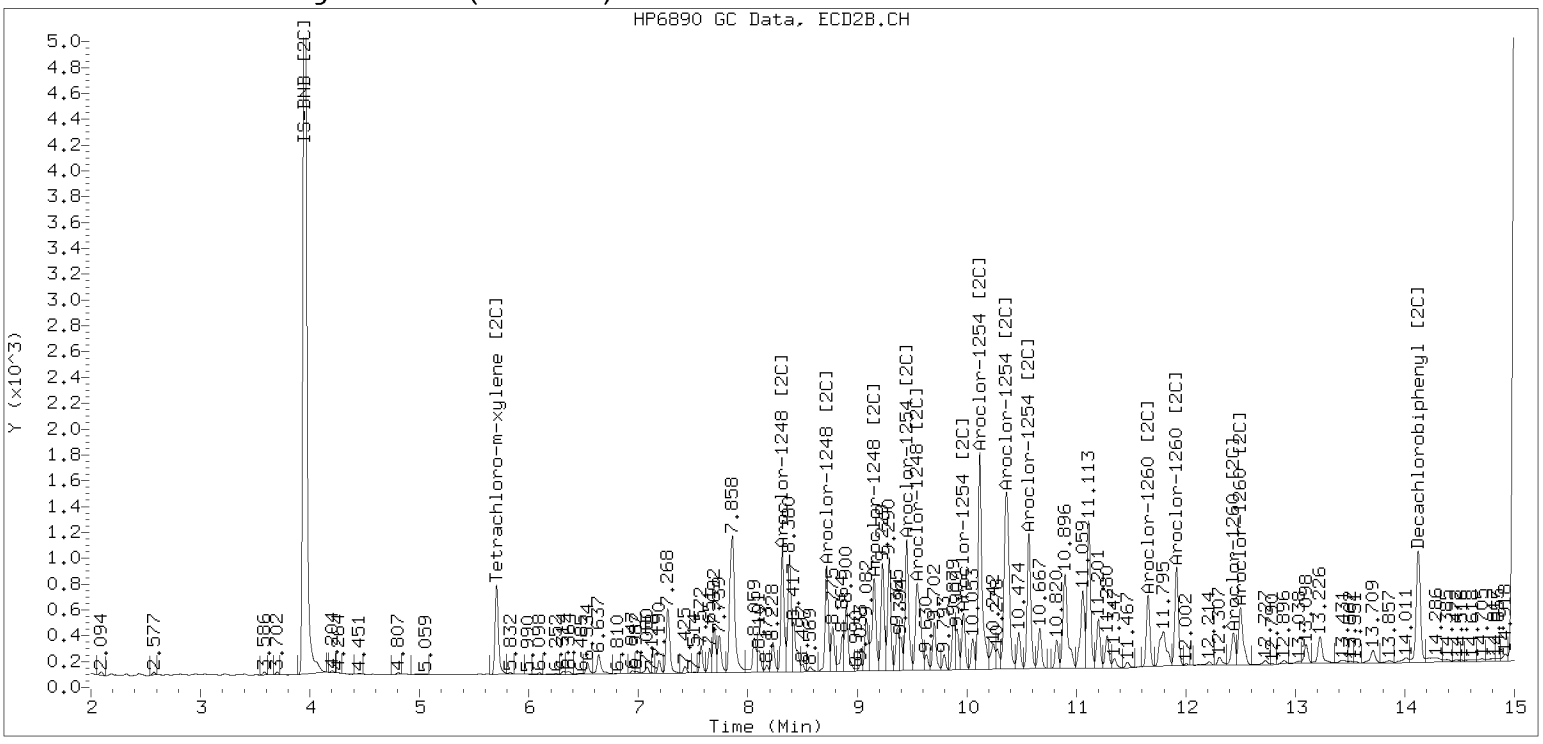
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052370ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-42 B	File ID:	01052371ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/06/23 12:58
% Solids:	57.10	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.94 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	288	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	221	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	77.7	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9823*	*9.65*	*121*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9823*	*7.12*	*89.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9823*	*8.69*	*109*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9823*	*7.26*	*90.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052371ECD7.D
Data file 2: /230105.b/230105.b/01052371ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-42RE2
Client ID:
Injection Date: 06-JAN-2023 12:58
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.006	45478	5.704	-0.006	30105	7.1	7.3	1.9	Tetrachloro-m-xylene
13.895	-0.009	53299	14.123	-0.005	50670	9.7	8.7	10.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	449607	0.4
Hexabromobiphenyl	798898	601267	-24.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301877	21.2
Hexabromobiphenyl	362541	409545	13.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.010	55415	286.7	1	8.314	-0.007	48644	394.4
Aroclor-1248	2	8.581	-0.018	59876	242.6	2	8.720	-0.007	39728	306.3
Aroclor-1248	3	8.999	-0.016	105899	238.5	3	9.154	-0.019	44861	284.3
Aroclor-1248	4	9.301	-0.010	83739	385.0	4	9.547	-0.045	28015	151.3
		Total Col1Ave (4 peaks):			288.2		Total Col2Ave (4 peaks):			284.1 RPD = 1
		Corrected Ave (3 peaks):			255.9		Corrected Ave (3 peaks):			247.3 RPD = 3
Aroclor-1254	1	9.301	-0.012	83739	211.5	1	9.452	-0.009	45033	231.4
Aroclor-1254	2	9.376	-0.016	41465	269.3	2	9.970	-0.008	19392	123.9
Aroclor-1254	3	9.671	-0.013	42609	170.4	3	10.118	-0.012	80507	239.4
Aroclor-1254	4	9.803	-0.016	113903	233.7	4	10.362	-0.016	86178	247.4
Aroclor-1254	5	10.144	-0.031	64079	191.8	5	10.567	-0.008	44637	265.7
		Total Col1Ave (5 peaks):			215.4		Total Col2Ave (5 peaks):			221.5 RPD = 3
		Corrected Ave (4 peaks):			201.9		Corrected Ave (4 peaks):			210.5 RPD = 4
Aroclor-1260	1	11.046	-0.010	20327	92.9	1	11.656	-0.006	22504	104.1
Aroclor-1260	2	11.361	-0.012	14611	64.5	2	11.916	-0.010	34801	64.2
Aroclor-1260	3	11.732	-0.014	40604	68.3	3	12.435	-0.008	11149	77.2
Aroclor-1260	4	12.131	-0.019	22032	72.7	4	12.500	-0.008	23889	66.1
Aroclor-1260	5	12.247	-0.009	10794	87.1	NS	---			----
		Total Col1Ave (5 peaks):			77.1		Total Col2Ave (4 peaks):			77.9 RPD = 1
		Corrected Ave (4 peaks):			73.2		Corrected Ave (3 peaks):			69.1 RPD = 6
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 2020594 Col1 Total PCB = 0.5 ppm*

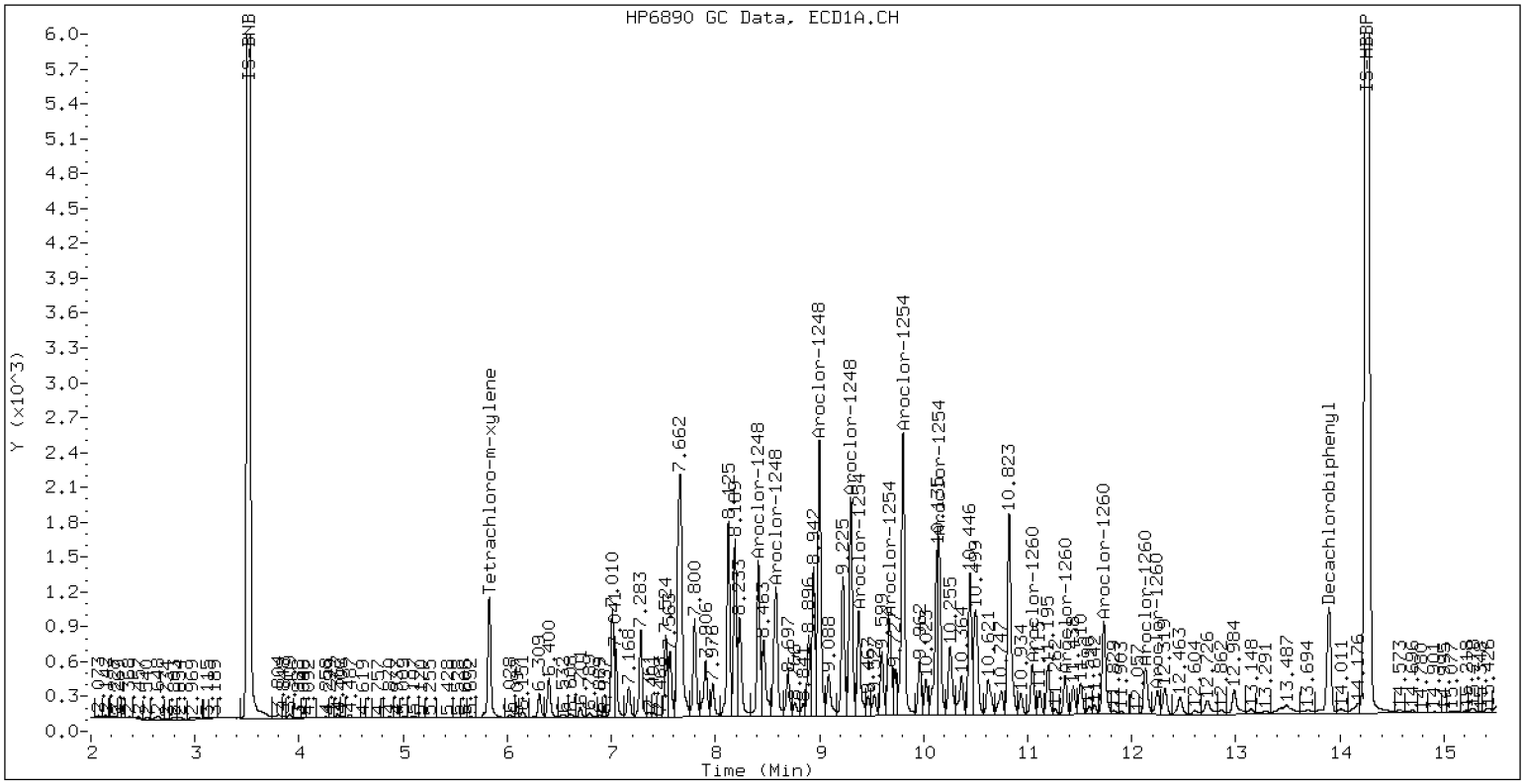
Total PCB Area Col2 (5.810 - 14.028) = 1439436 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

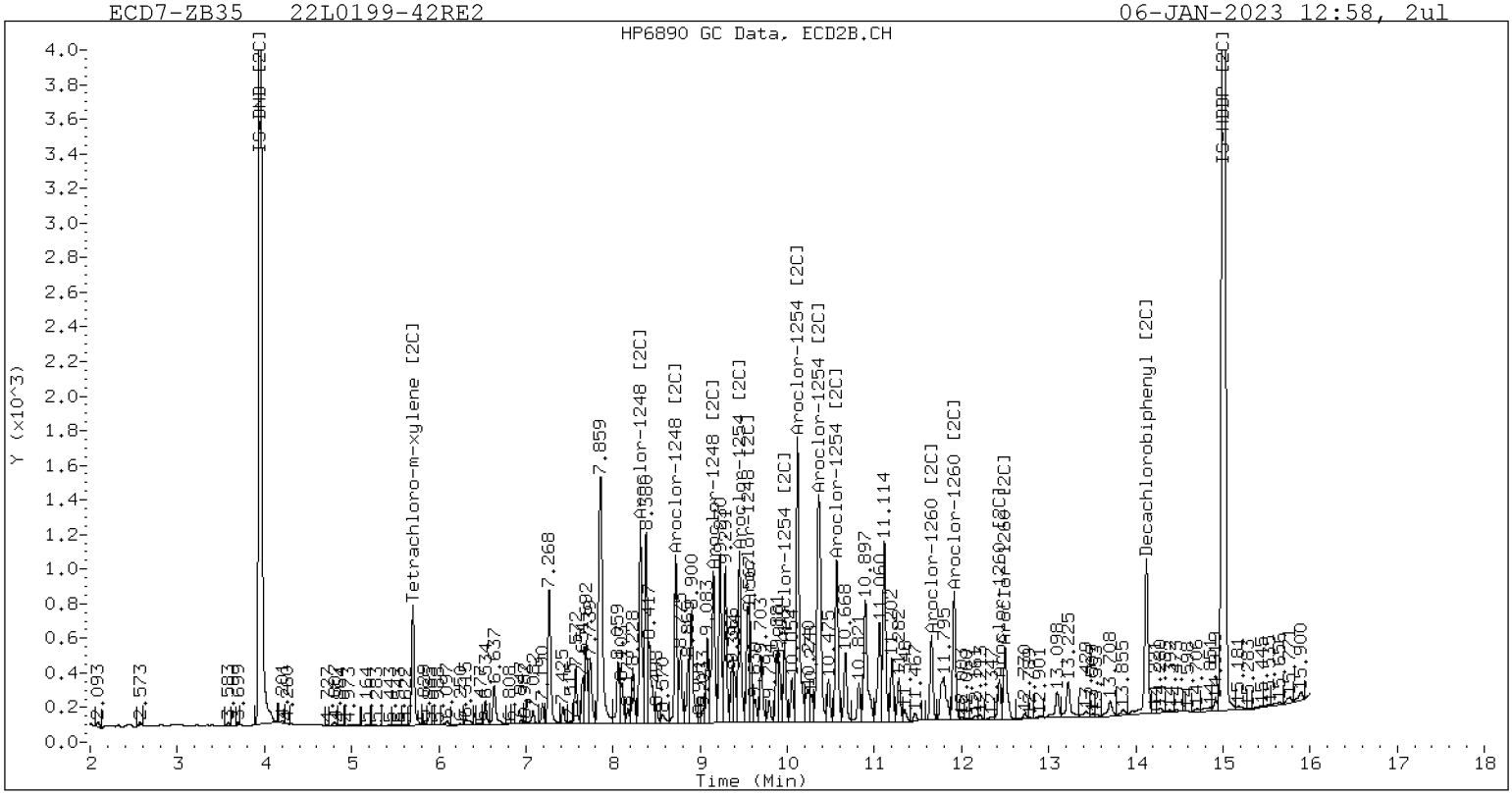
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-42RE2 06-JAN-2023 12:58, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-42RE2 06-JAN-2023 12:58, 2ul

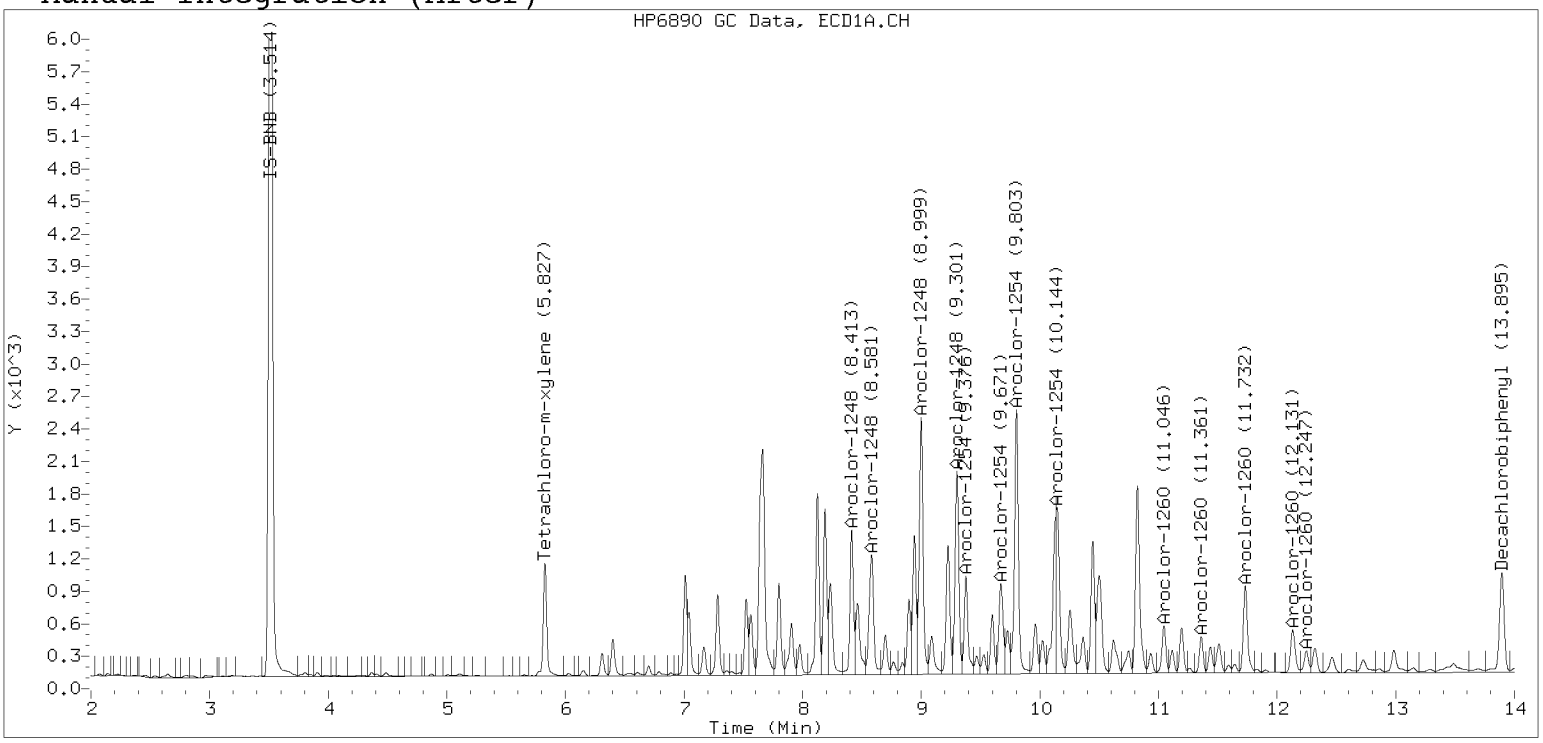


ZB-35 Manual Integration: YES

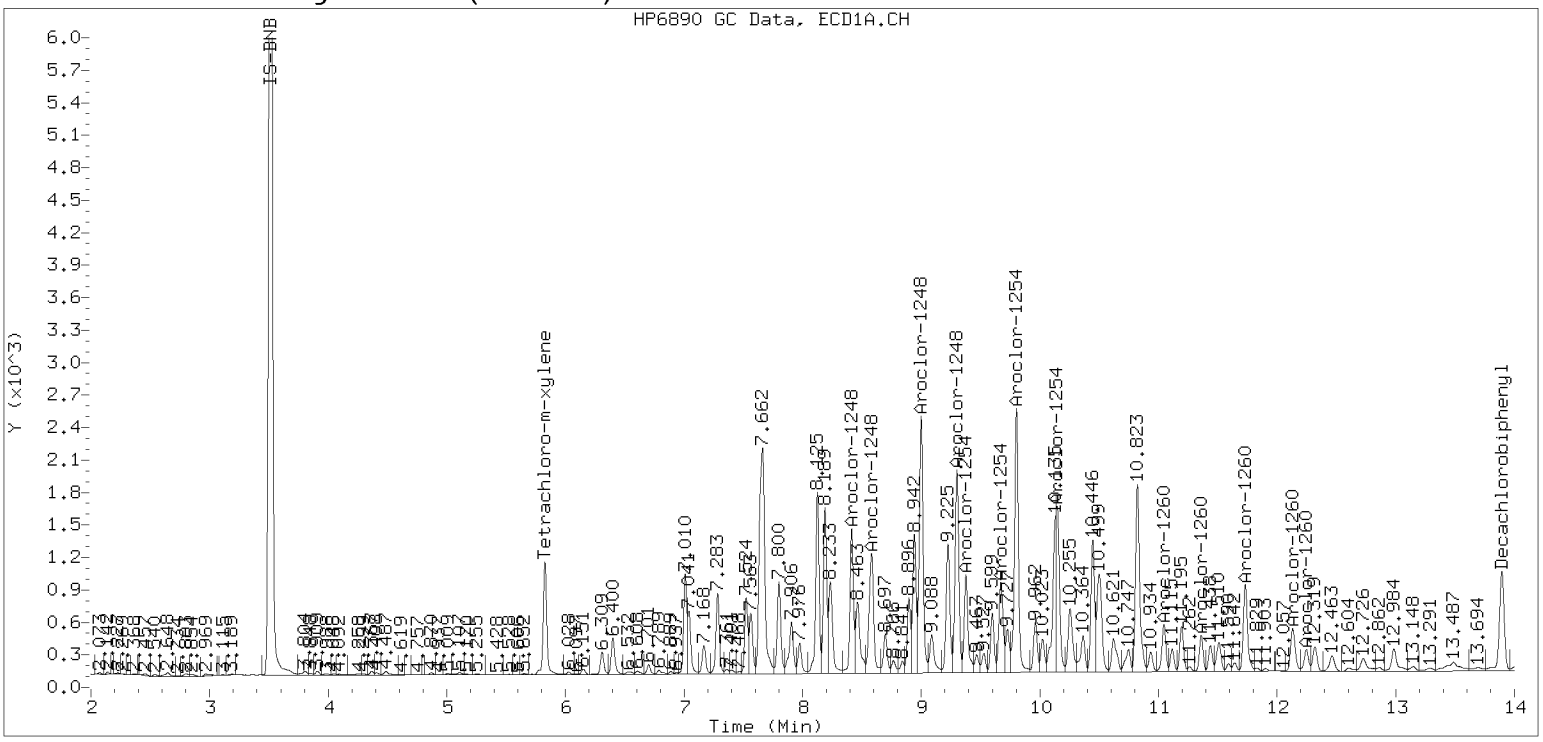
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052371ECD7.D Injection Date: 06-JAN-2023 12:58

Manual Integration (After)



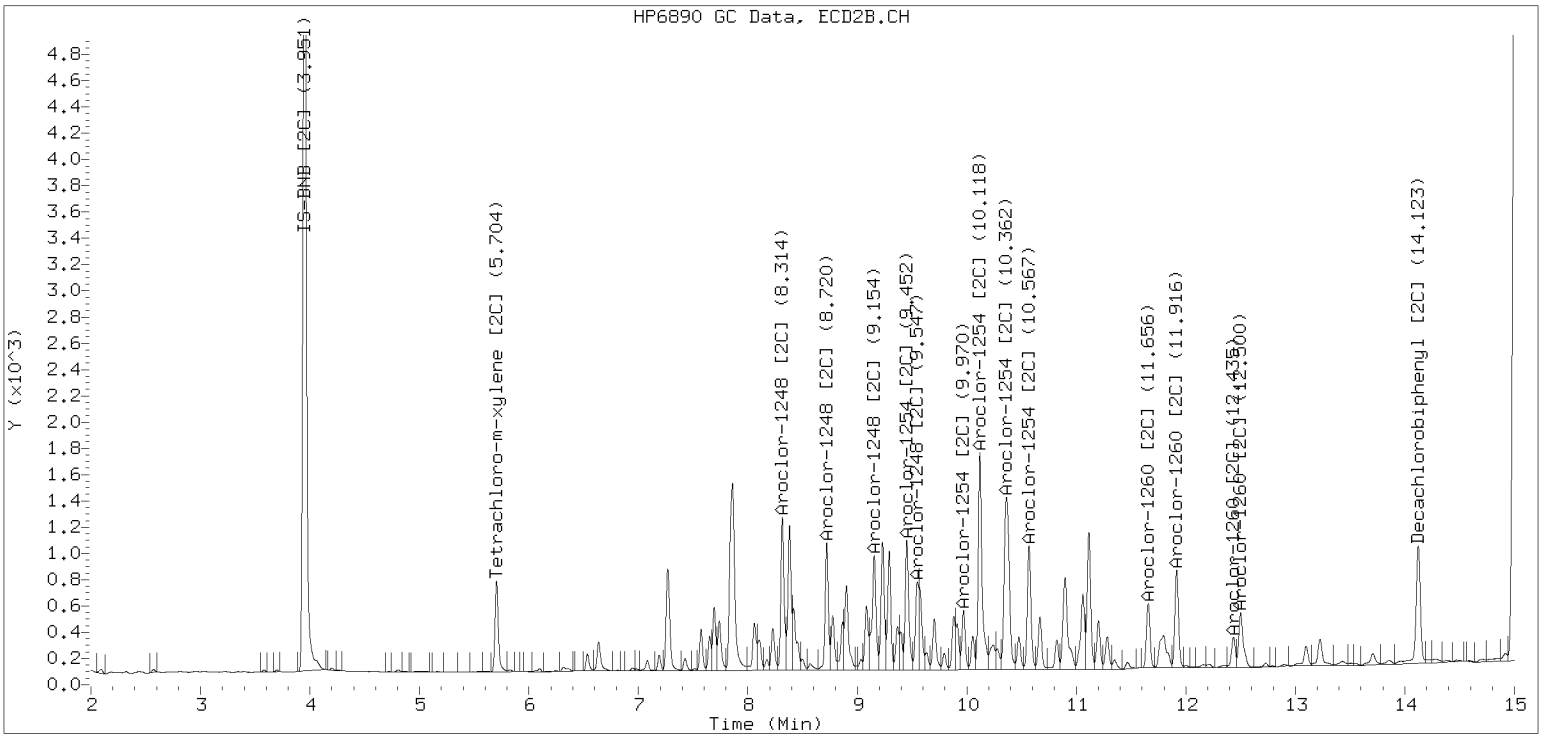
Processed Integration (Before)



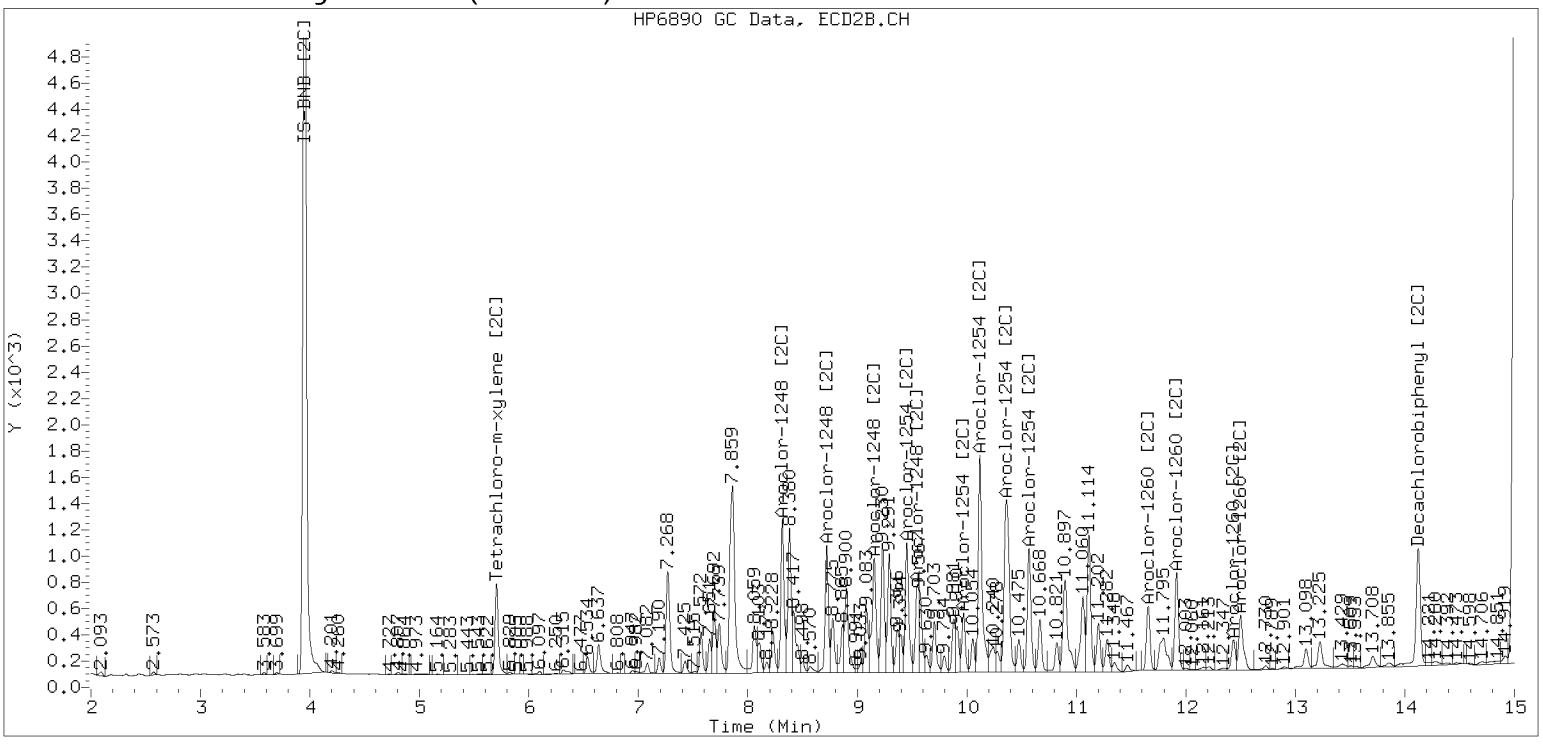
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052371ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-43 B	File ID:	12292237ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	12/29/22 21:34
% Solids:	62.76	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.96 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0370	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	151	1.6	4.0	
11097-69-1	Aroclor 1254	1	1	123	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	77.7	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9828*	*9.50*	*119*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9828*	*5.72*	*71.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9828*	*9.08*	*114*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9828*	*6.42*	*80.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292237ECD7.D
Data file 2: /221229.b/221229.b/12292237ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-43
Client ID:
Injection Date: 29-DEC-2022 21:34
Report Date: 01/03/2023 11:18
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.006	168217	5.702	-0.006	118044	28.7	32.2	11.5	Tetrachloro-m-xylene
13.895	-0.008	178727	14.122	-0.007	189262	47.6	45.5	4.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	413913	-7.5
Hexabromobiphenyl	798898	409418	-48.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	267545	7.4
Hexabromobiphenyl	362541	292941	-19.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.410	-0.013	106168	596.6	1	8.311	-0.010	97680	893.7
Aroclor-1248	2	8.576	-0.022	108262	476.5	2	8.717	-0.010	84408	734.3
Aroclor-1248	3	8.993	-0.025	231717	566.9	3	9.148	-0.024	89540	640.3
Aroclor-1248	4	9.297	-0.013	193277	965.1	4	9.544	-0.050	69849	425.5
		Total Col1Ave (4 peaks):			651.3		Total Col2Ave (4 peaks):			673.5 RPD = 3
		Corrected Ave (3 peaks):			546.6		Corrected Ave (3 peaks):			600.0 RPD = 9
										756.1
Aroclor-1254	1	9.297	-0.016	193277	530.3	1	9.448	-0.011	113845	660.0
Aroclor-1254	2	9.373	-0.020	86038	607.0	2	9.966	-0.012	49699	358.4
Aroclor-1254	3	9.667	-0.019	113537	493.3	3	10.114	-0.015	209318	702.2
Aroclor-1254	4	9.797	-0.024	261865	583.6	4	10.352	-0.026	93073	301.5
Aroclor-1254	5	10.133	-0.043	268915	874.3	5	10.563	-0.012	136378	915.9
		Total Col1Ave (5 peaks):			617.7		Total Col2Ave (5 peaks):			587.6 RPD = 5
		Corrected Ave (4 peaks):			553.6		Corrected Ave (4 peaks):			505.5 RPD = 9
Aroclor-1260	1	11.043	-0.013	62337	418.3	1	11.653	-0.009	74608	482.5
Aroclor-1260	2	11.359	-0.013	53282	345.7	2	11.913	-0.012	128966	332.4
Aroclor-1260	3	11.729	-0.017	138388	341.7	3	12.433	-0.012	40124	388.3
Aroclor-1260	4	12.129	-0.023	81448	394.9	4	12.497	-0.012	91722	354.6
Aroclor-1260	5	12.245	-0.011	36721	434.9	NS	---			----
		Total Col1Ave (5 peaks):			387.1		Total Col2Ave (4 peaks):			389.5 RPD = 1
		Corrected Ave (4 peaks):			375.1		Corrected Ave (3 peaks):			358.4 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.803) = 4752973 Col1 Total PCB = 1.2 ppm*

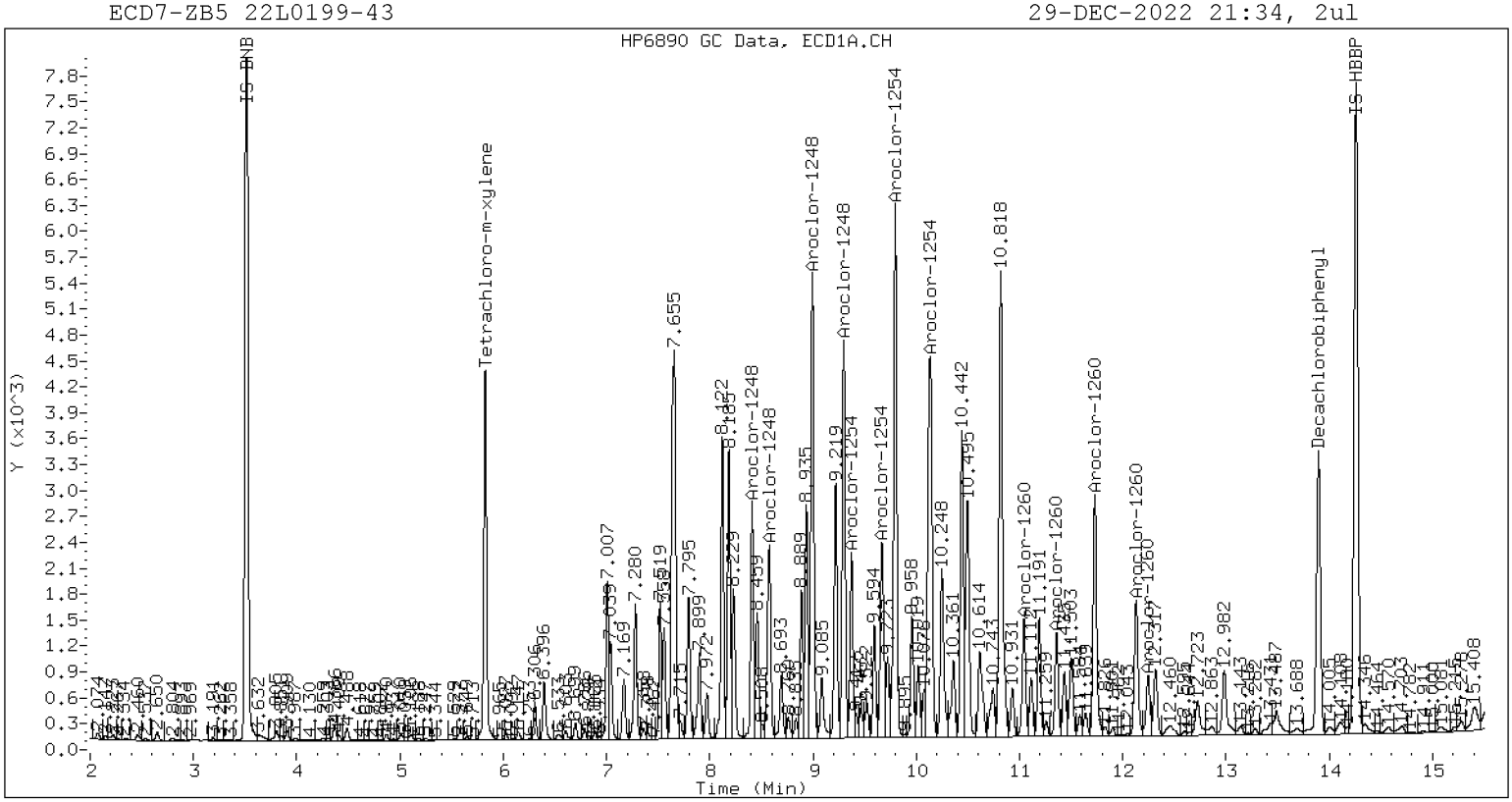
Total PCB Area Col2 (5.808 - 14.029) = 3560103 Col2 Total PCB = 1.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

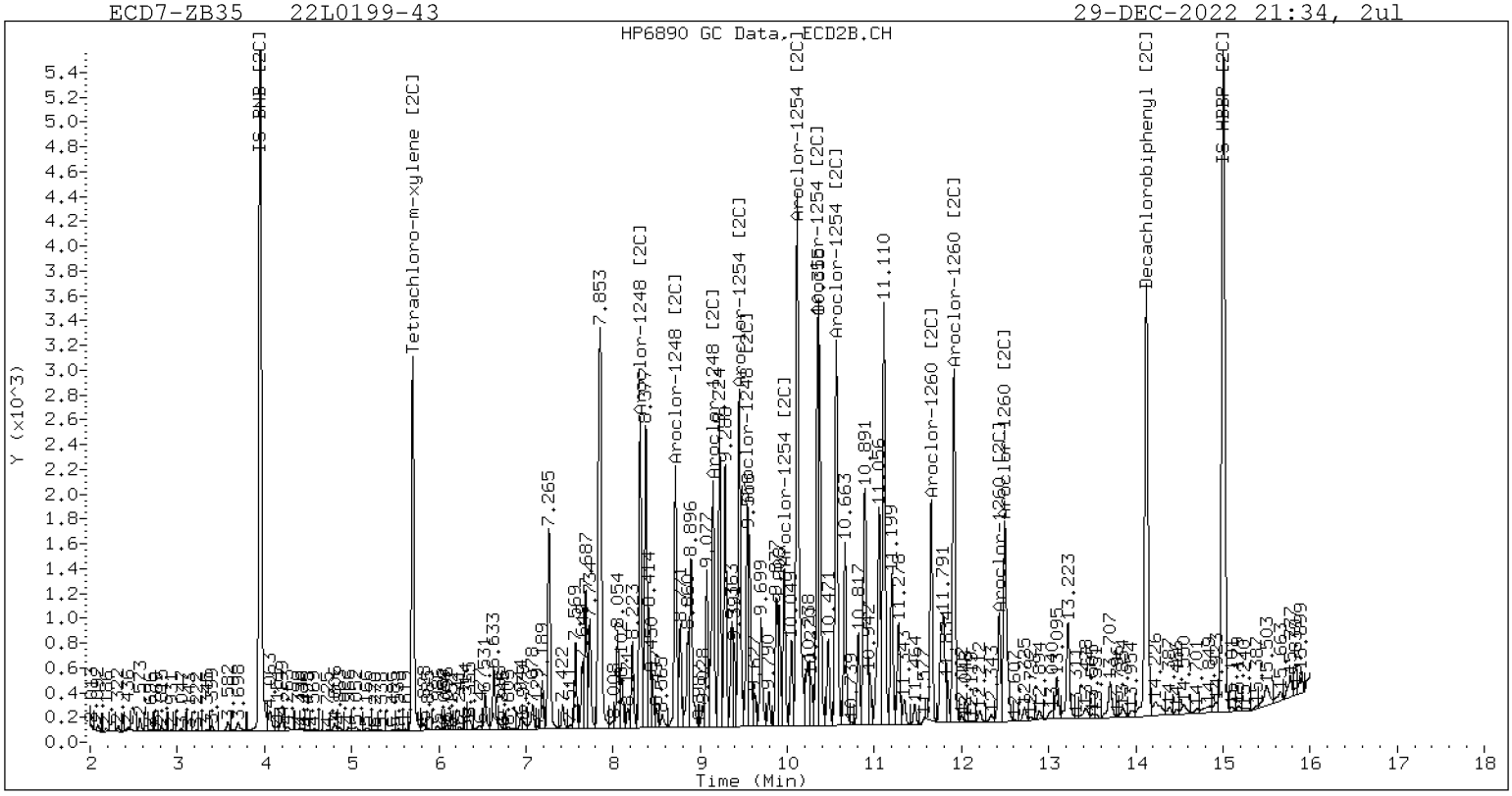
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-43 29-DEC-2022 21:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-43 29-DEC-2022 21:34, 2ul



ZB-35 Manual Integration: YES

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-44 B	File ID:	01032327ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/03/23 17:25
% Solids:	61.67	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.31 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	39.9	15.6	39.9	U
11104-28-2	Aroclor 1221	1	10	39.9	15.6	39.9	U
11141-16-5	Aroclor 1232	1	10	39.9	15.6	39.9	U
53469-21-9	Aroclor 1242	1	10	39.9	15.6	39.9	U
12672-29-6	Aroclor 1248	2	10	1750	15.6	39.9	D
11097-69-1	Aroclor 1254	2	10	1290	15.6	39.9	D
11096-82-5	Aroclor 1260	1	10	277	5.9	39.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9839*	*10.5*	*132*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9839*	*6.69*	*83.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9839*	*9.11*	*114*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9839*	*14.6*	*183*	*44 - 120*	*

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032327ECD7.D
Data file 2: /230103.b/230103.b/01032327ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-44RE2
Client ID:
Injection Date: 03-JAN-2023 17:25
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.005	21277	5.704	-0.004	29866	3.3	7.3	74.5*	Tetrachloro-m-xylene
13.897	-0.006	28639	14.123	-0.006	25556	5.3	4.6	14.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	448272	0.1
Hexabromobiphenyl	798898	593807	-25.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297244	19.3
Hexabromobiphenyl	362541	394190	8.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.014	139242	722.4	1	8.314	-0.007	143107	1178.5
Aroclor-1248	2	8.580	-0.024	151280	614.7	2	8.719	-0.006	134823	1055.6
Aroclor-1248	3	8.998	-0.024	284873	643.5	3	9.152	-0.018	125107	805.3
Aroclor-1248	4	9.300	-0.011	197505	910.7	4	9.546	-0.046	86384	473.7
		Total Col1Ave (4 peaks):			722.8		Total Col2Ave (4 peaks):			878.3 RPD = 19
		Corrected Ave (3 peaks):			660.2		Corrected Ave (3 peaks):			778.2 RPD = 16
Aroclor-1254	1	9.300	-0.014	197505	500.4	1	9.450	-0.011	138953	725.0
Aroclor-1254	2	9.376	-0.017	93440	608.7	2	9.969	-0.009	83585	542.5
Aroclor-1254	3	9.668	-0.018	98247	394.1	3	10.117	-0.012	231621	699.4
Aroclor-1254	4	9.802	-0.018	286362	589.3	4	10.359	-0.019	216127	630.1
Aroclor-1254	5	10.146	-0.030	159610	479.2	5	10.566	-0.010	105447	637.4
		Total Col1Ave (5 peaks):			514.4		Total Col2Ave (5 peaks):			646.9 RPD = 23
		Corrected Ave (4 peaks):			490.8		Corrected Ave (4 peaks):			627.3 RPD = 24
Aroclor-1260	1	11.046	-0.016	37231	172.2	1	11.655	-0.007	46631	224.1
Aroclor-1260	2	11.360	-0.017	27629	123.6	2	11.916	-0.010	60107	115.1
Aroclor-1260	3	11.732	-0.020	70686	120.3	3	12.435	-0.009	18282	131.5
Aroclor-1260	4	12.133	-0.026	46111	154.1	4	12.498	-0.011	43967	126.3
Aroclor-1260	5	12.246	-0.015	15154	123.8	NS	---			----
		Total Col1Ave (5 peaks):			138.8		Total Col2Ave (4 peaks):			149.3 RPD = 7
		Corrected Ave (4 peaks):			130.5		Corrected Ave (3 peaks):			124.3 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.803) = 11230139 Col1 Total PCB = 2.6 ppm*

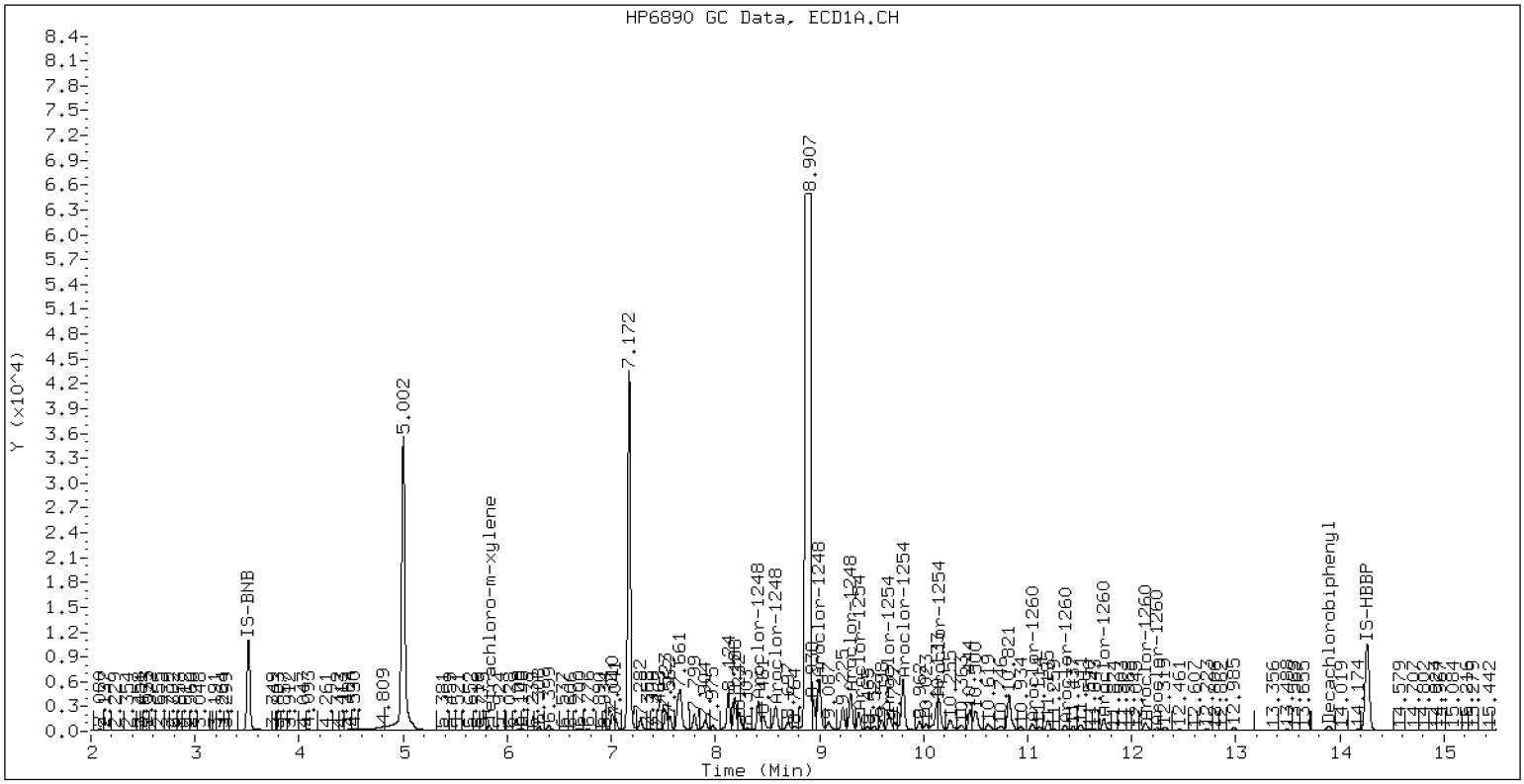
Total PCB Area Col2 (5.808 - 14.029) = 8776799 Col2 Total PCB = 3.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

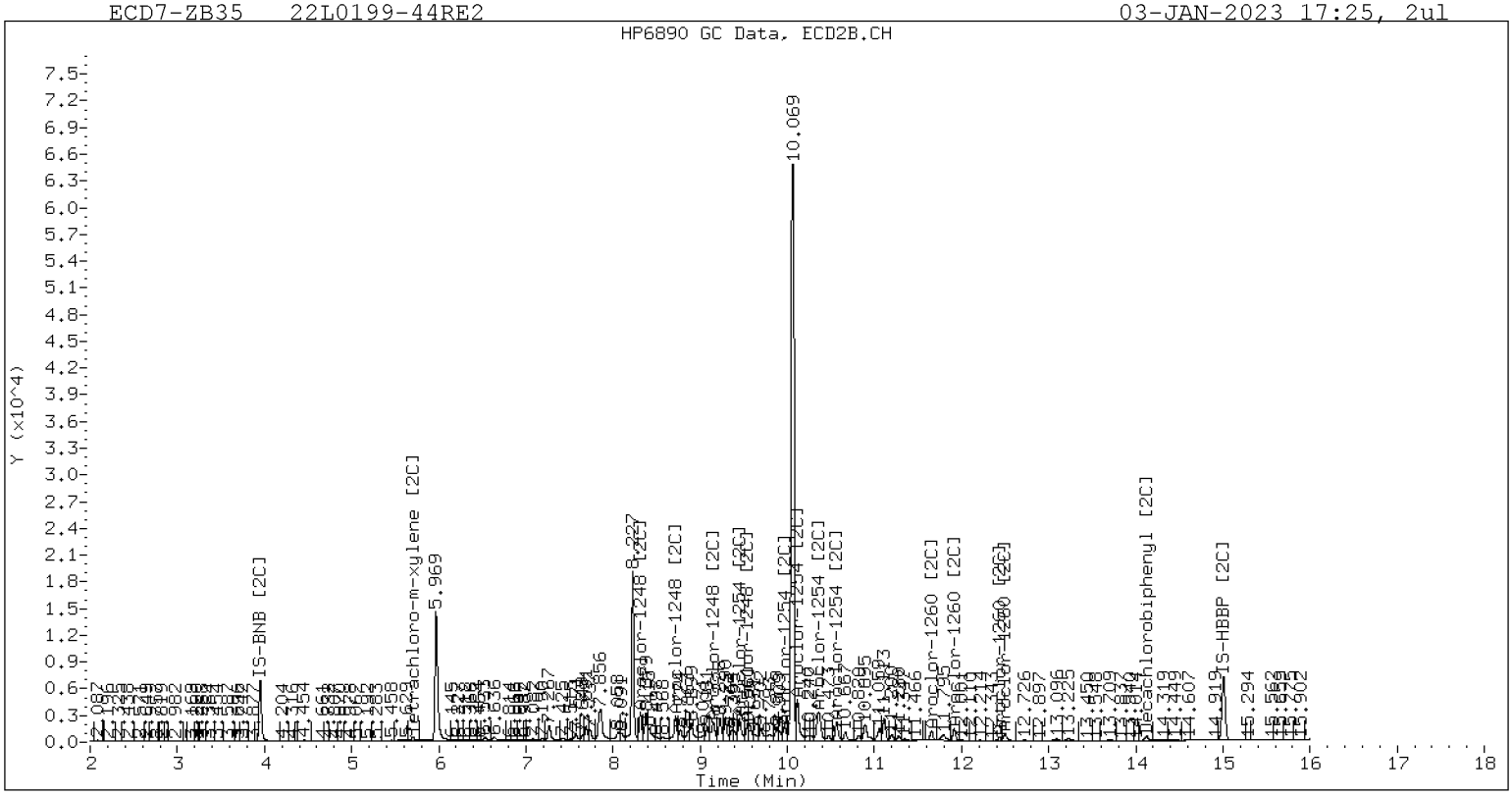
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-44RE2 03-JAN-2023 17:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-44RE2 03-JAN-2023 17:25, 2ul

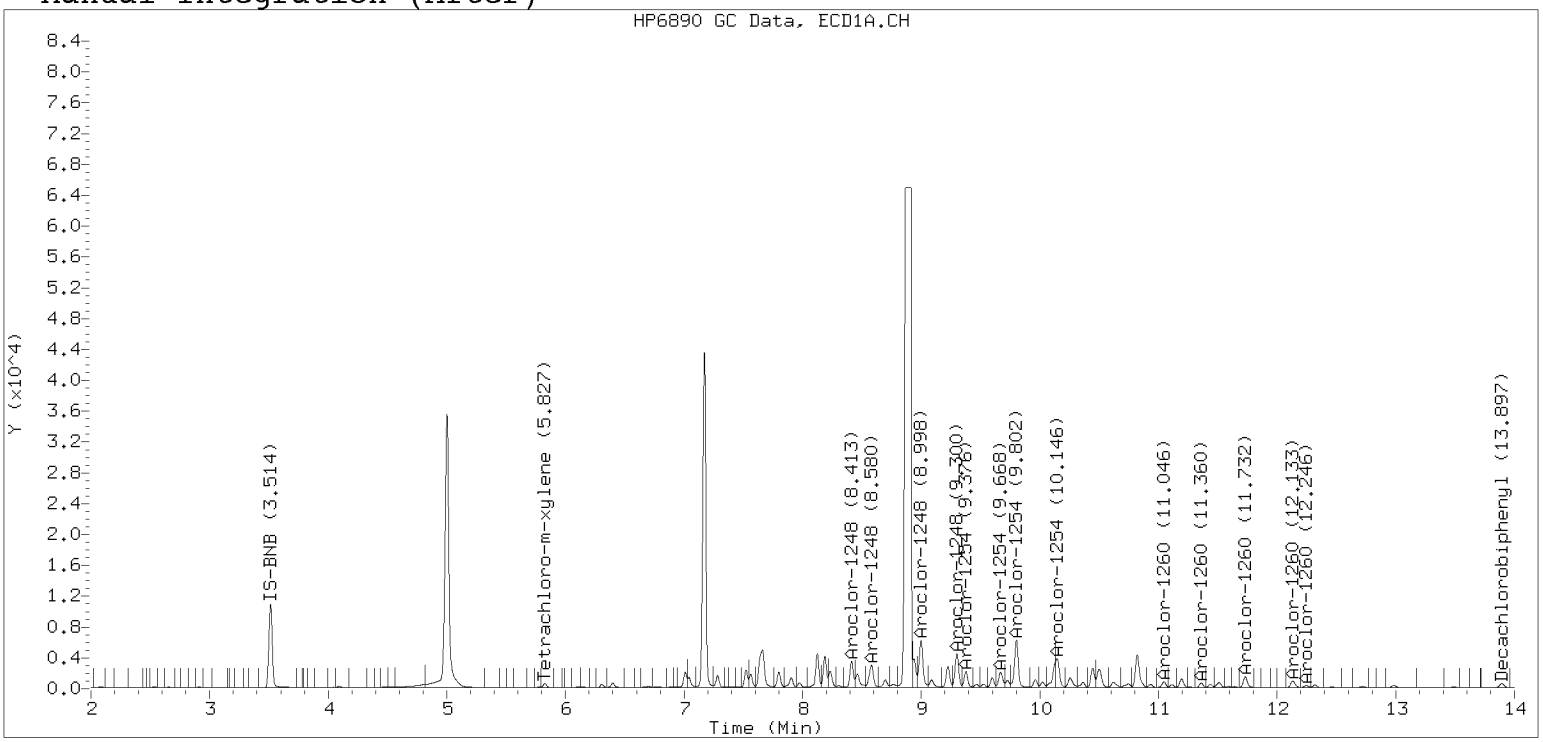


ZB-35 Manual Integration: YES

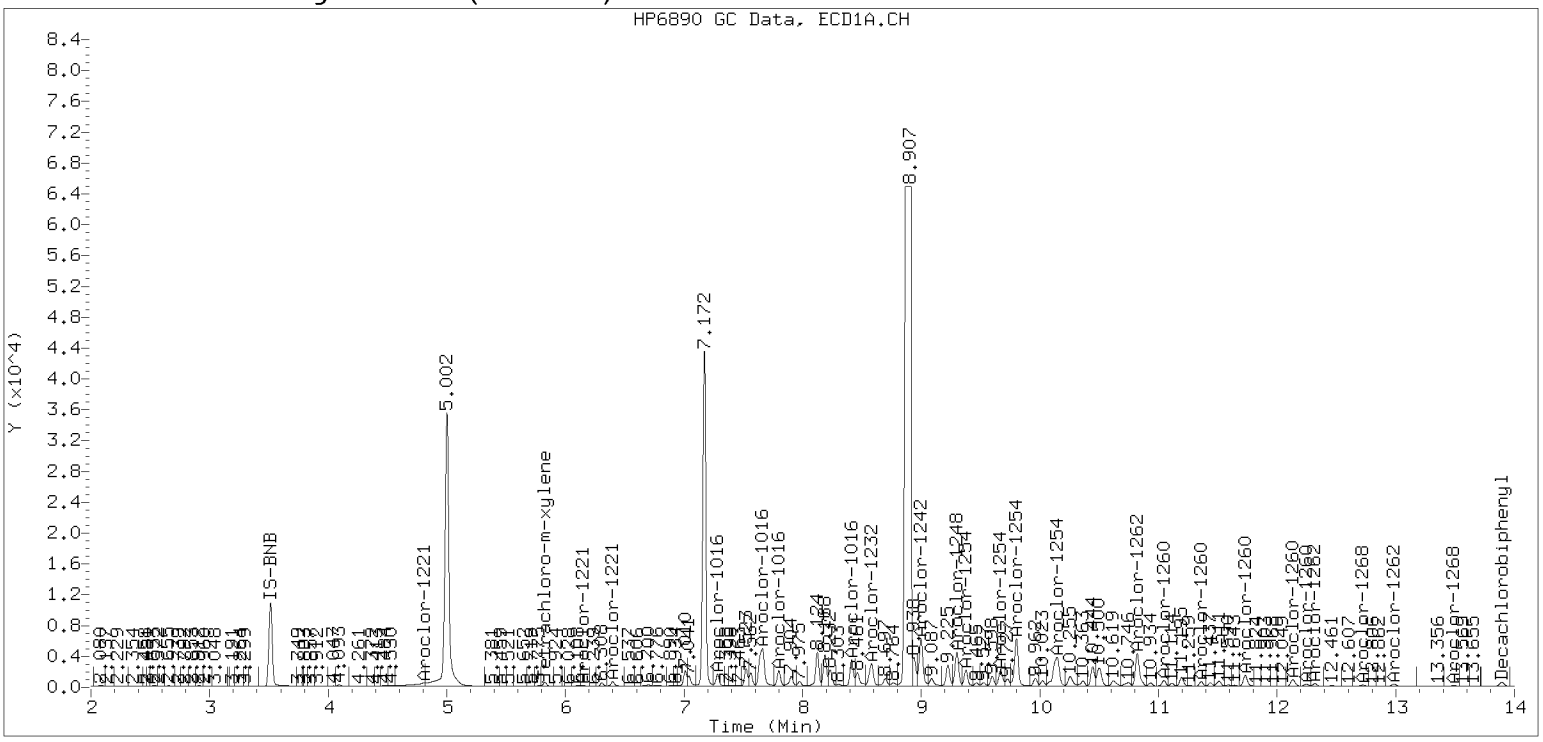
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032327ECD7.D Injection Date: 03-JAN-2023 17:25

Manual Integration (After)



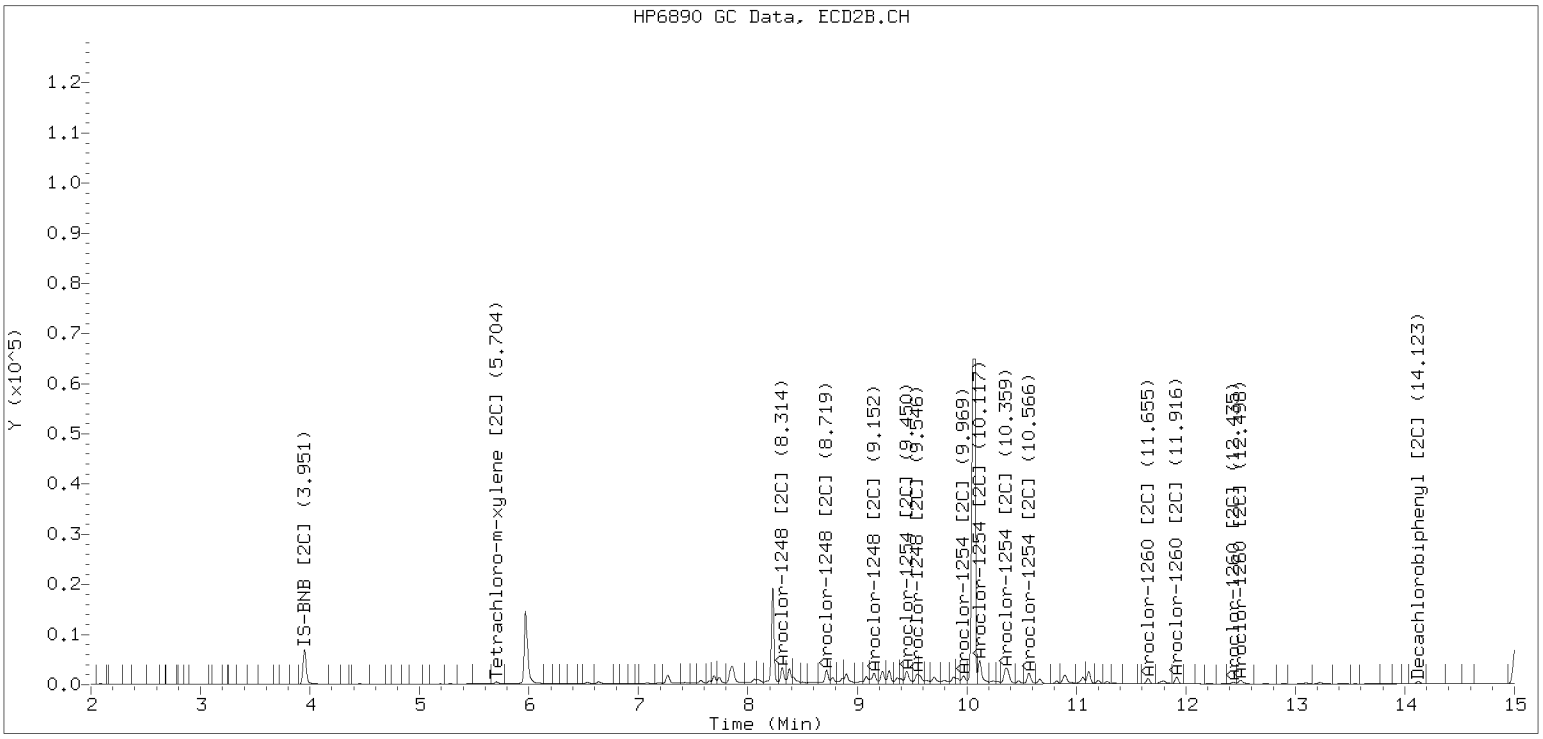
Processed Integration (Before)



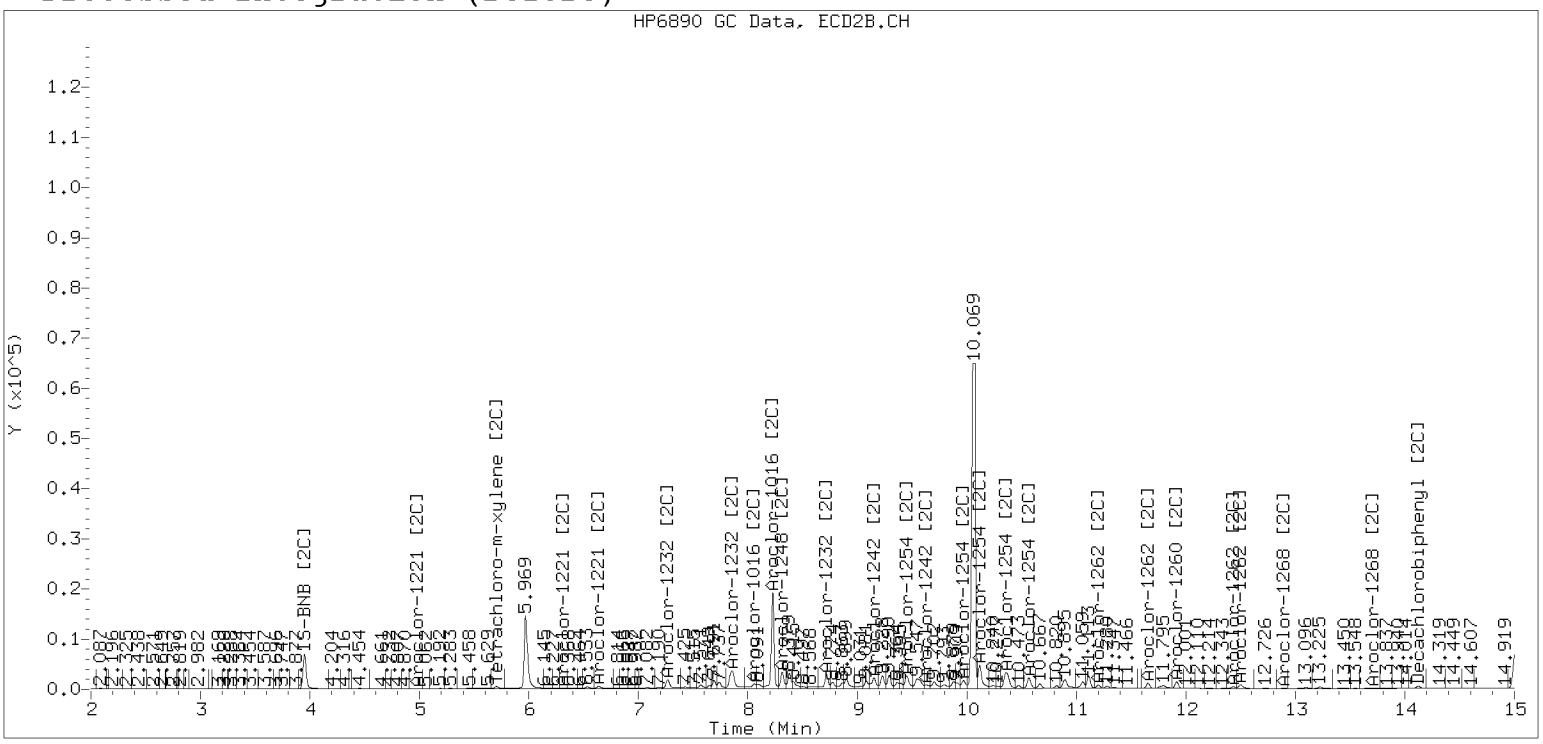
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230103.b/230103.b/01032327ECD7.D Injection Date: 03-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-45 B	File ID:	01032328ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/03/23 17:46
% Solids:	60.47	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.7 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	39.9	15.6	39.9	U
11104-28-2	Aroclor 1221	1	10	39.9	15.6	39.9	U
11141-16-5	Aroclor 1232	1	10	39.9	15.6	39.9	U
53469-21-9	Aroclor 1242	1	10	39.9	15.6	39.9	U
12672-29-6	Aroclor 1248	2	10	1690	15.6	39.9	D
11097-69-1	Aroclor 1254	1	10	1100	15.6	39.9	D
11096-82-5	Aroclor 1260	1	10	240	5.9	39.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9889*	*10.3*	*129*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9889*	*5.74*	*71.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9889*	*8.11*	*102*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9889*	*11.4*	*143*	*44 - 120*	*

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032328ECD7.D
Data file 2: /230103.b/230103.b/01032328ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-45RE2
Client ID:
Injection Date: 03-JAN-2023 17:46
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	19049	5.703	-0.005	23806	2.9	5.7	66.3*	Tetrachloro-m-xylene
13.896	-0.007	28743	14.123	-0.006	23159	5.2	4.1	24.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	467573	4.5
Hexabromobiphenyl	798898	606146	-24.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	303191	21.7
Hexabromobiphenyl	362541	401504	10.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.411	-0.016	158035	786.1	1	8.313	-0.009	160453	1295.4
Aroclor-1248	2	8.578	-0.026	209805	817.4	2	8.718	-0.007	115153	883.9
Aroclor-1248	3	8.997	-0.025	329246	713.0	3	9.152	-0.019	122749	774.6
Aroclor-1248	4	9.300	-0.011	193703	856.3	4	9.547	-0.045	79224	425.9
		Total Col1Ave (4 peaks):			793.2		Total Col2Ave (4 peaks):			845.0 RPD = 6
		Corrected Ave (3 peaks):			772.2		Corrected Ave (3 peaks):			694.8 RPD = 11
Aroclor-1254	1	9.300	-0.015	193703	470.5	1	9.450	-0.011	123375	631.1
Aroclor-1254	2	9.376	-0.018	96819	604.7	2	9.968	-0.010	76713	488.1
Aroclor-1254	3	9.668	-0.019	88199	339.2	3	10.117	-0.012	182263	539.5
Aroclor-1254	4	9.802	-0.019	287754	567.7	4	10.358	-0.021	168983	483.0
Aroclor-1254	5	10.146	-0.030	267621	770.3	5	10.566	-0.011	79378	470.4
		Total Col1Ave (5 peaks):			550.5		Total Col2Ave (5 peaks):			522.4 RPD = 5
		Corrected Ave (4 peaks):			495.5		Corrected Ave (4 peaks):			495.3 RPD = 0
Aroclor-1260	1	11.046	-0.016	31697	143.7	1	11.656	-0.006	39650	187.1
Aroclor-1260	2	11.361	-0.017	24592	107.8	2	11.915	-0.010	51084	96.1
Aroclor-1260	3	11.731	-0.021	61469	102.5	3	12.435	-0.009	15830	111.8
Aroclor-1260	4	12.133	-0.026	40813	133.7	4	12.499	-0.011	38289	108.0
Aroclor-1260	5	12.245	-0.016	14024	112.2	NS	---			----
		Total Col1Ave (5 peaks):			120.0		Total Col2Ave (4 peaks):			125.7 RPD = 5
		Corrected Ave (4 peaks):			114.0		Corrected Ave (3 peaks):			105.3 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.803) = 14029685 Col1 Total PCB = 3.1 ppm*

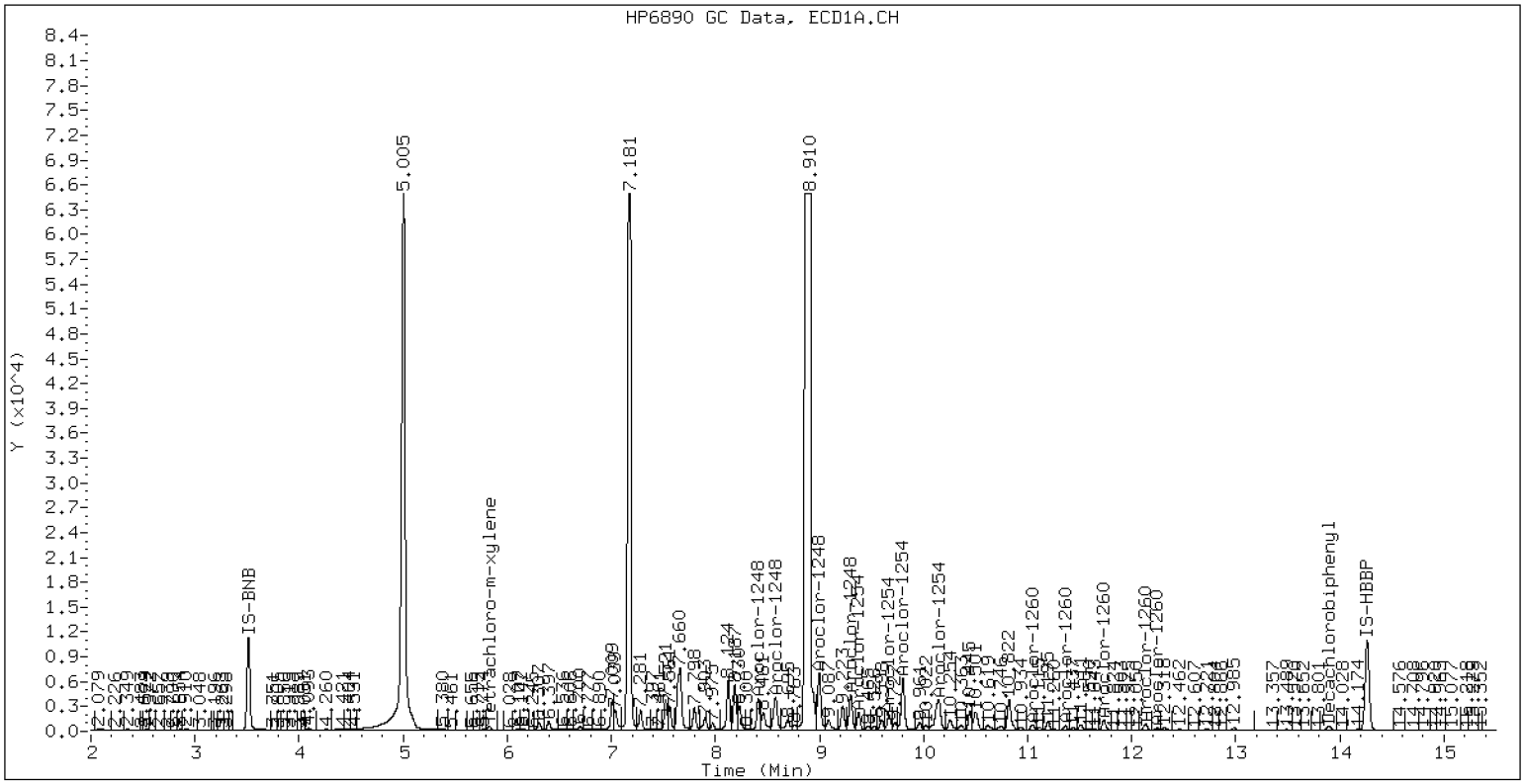
Total PCB Area Col2 (5.808 - 14.029) = 10523241 Col2 Total PCB = 3.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

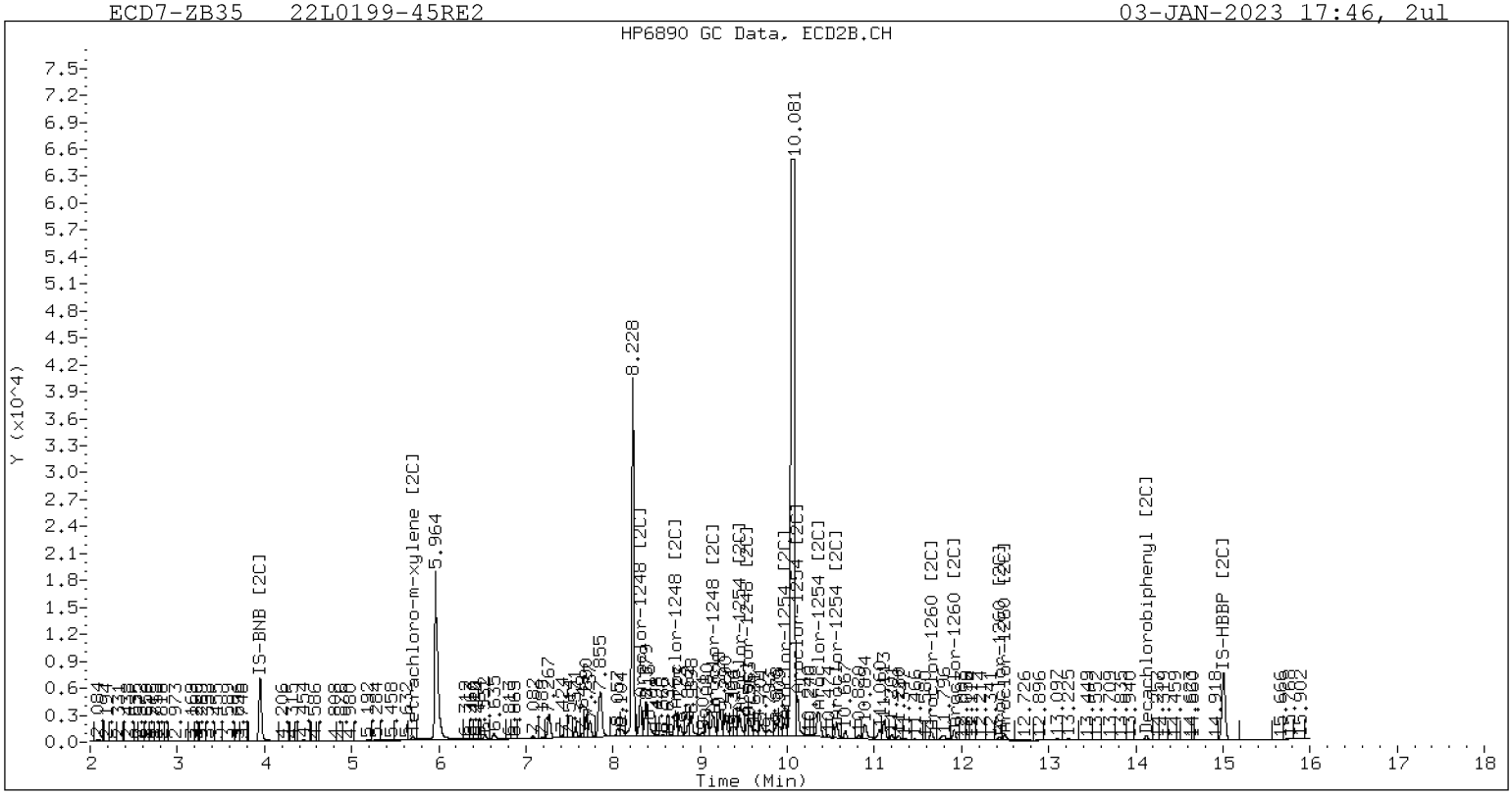
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-45RE2 03-JAN-2023 17:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-45RE2 03-JAN-2023 17:46, 2ul

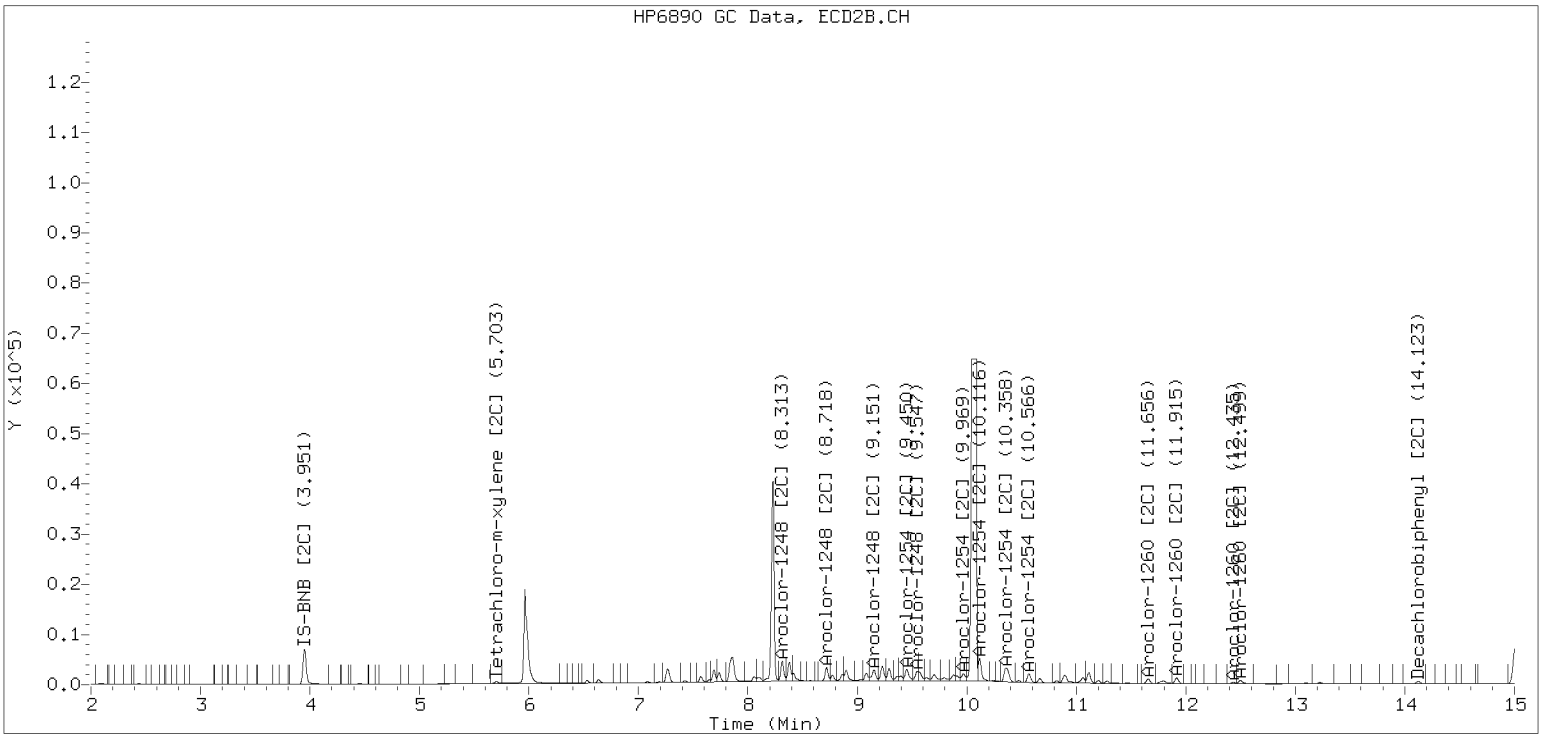


ZB-35 Manual Integration: YES

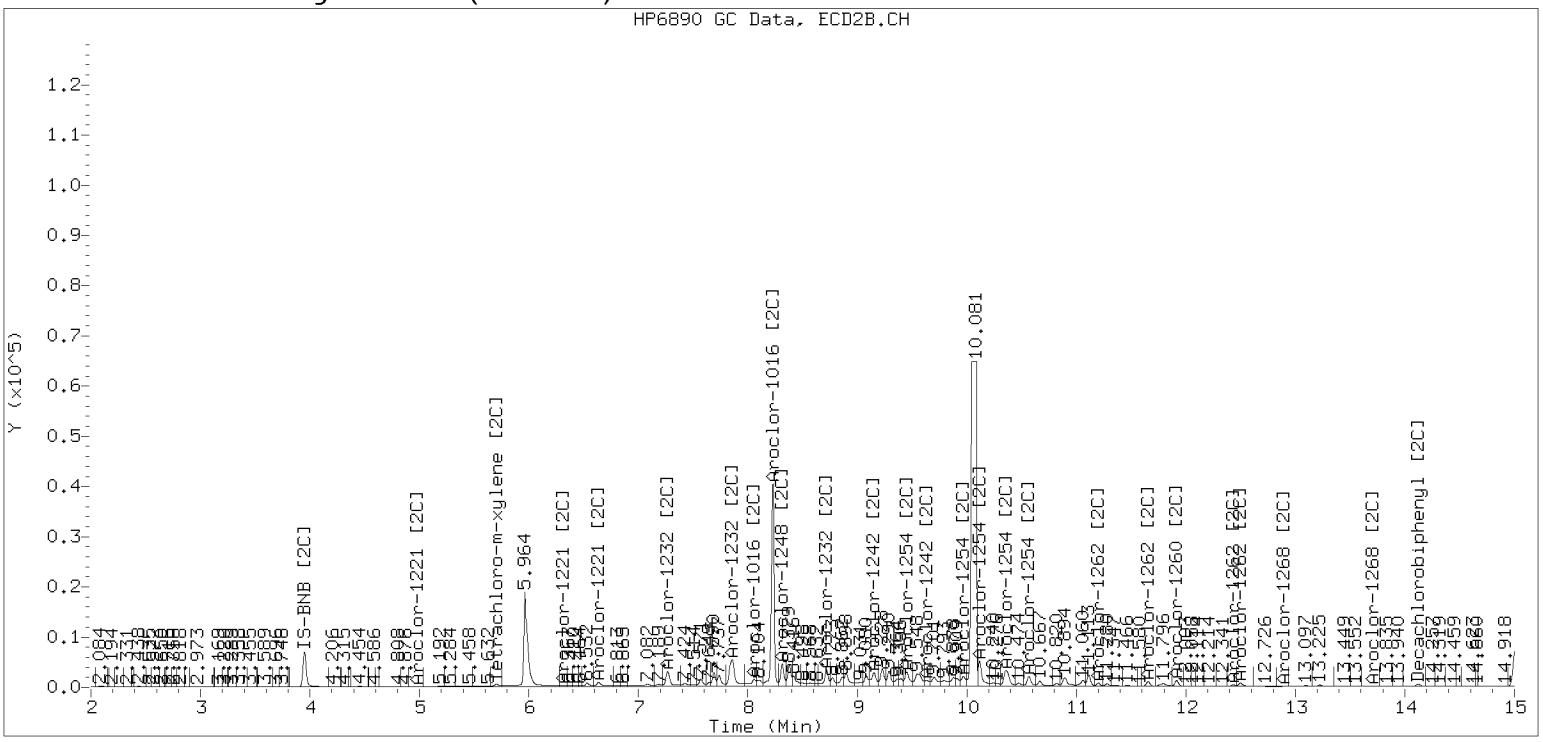
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230103.b/230103.b/01032328ECD7.D Injection Date: 03-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787K

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-46 B	File ID:	12272222ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 00:02
% Solids:	79.92	Preparation:	EPA 3546 (Microwave)	Initial/Final:	15.65 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	6.7	1.6	4.0	
11097-69-1	Aroclor 1254	1	1	3.6	1.6	4.0	J
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9952*	*9.44*	*118*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9952*	*7.52*	*94.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9952*	*9.88*	*124*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9952*	*7.61*	*95.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272222ECD7.D
Data file 2: /221227.b/221227.b/12272222ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-46
Client ID:
Injection Date: 28-DEC-2022 00:02
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	242617	5.705	-0.004	159106	37.6	38.1	1.2	Tetrachloro-m-xylene
13.899	-0.005	248742	14.127	-0.002	244836	47.2	49.4	4.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	455072	1.7
Hexabromobiphenyl	798898	574717	-28.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	304695	22.3
Hexabromobiphenyl	362541	348897	-3.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.415	-0.012	7505	38.4	1	8.316	-0.005	6098	49.0
Aroclor-1248	2	8.585	-0.019	7871	31.5	2	8.722	-0.005	4960	37.9
Aroclor-1248	3	9.004	-0.018	11481	25.5	3	9.160	-0.013	4166	26.2
Aroclor-1248	4	9.305	-0.007	7244	32.9	4	9.551	-0.042	3912	20.9
		Total Col1Ave (4 peaks):			32.1		Total Col2Ave (4 peaks):			33.5 RPD = 4
		Corrected Ave (3 peaks):			30.0		Corrected Ave (3 peaks):			28.3 RPD = 6
Aroclor-1254	1	9.305	-0.016	7244	18.1	1	9.456	-0.005	3013	15.3
Aroclor-1254	2	9.382	-0.020	3782	24.3	2	9.974	-0.005	1451	9.2
Aroclor-1254	3	9.677	-0.017	2793	11.0	3	10.122	-0.008	6031	17.8
Aroclor-1254	4	9.809	-0.022	9588	19.4	4	10.371	-0.008	6803	19.3
Aroclor-1254	5	10.130	-0.060	3791	11.2	5	10.572	-0.004	2472	14.6
		Total Col1Ave (5 peaks):			16.8		Total Col2Ave (5 peaks):			15.2 RPD = 10
		Corrected Ave (4 peaks):			14.9		Corrected Ave (4 peaks):			14.2 RPD = 5
					18.2					
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.931 - 13.803) = 306561 Col1 Total PCB = 0.1 ppm*

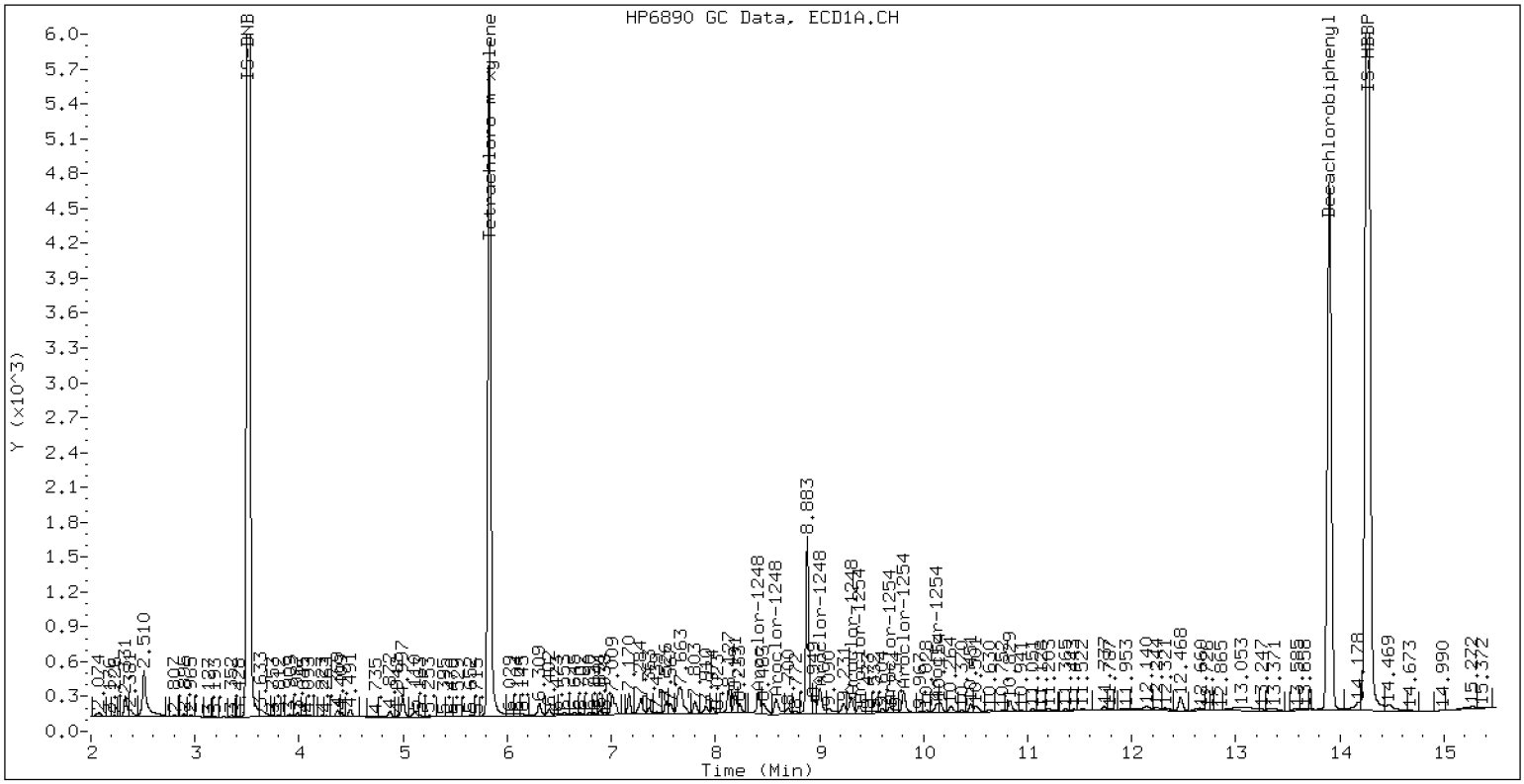
Total PCB Area Col2 (5.809 - 14.028) = 210930 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

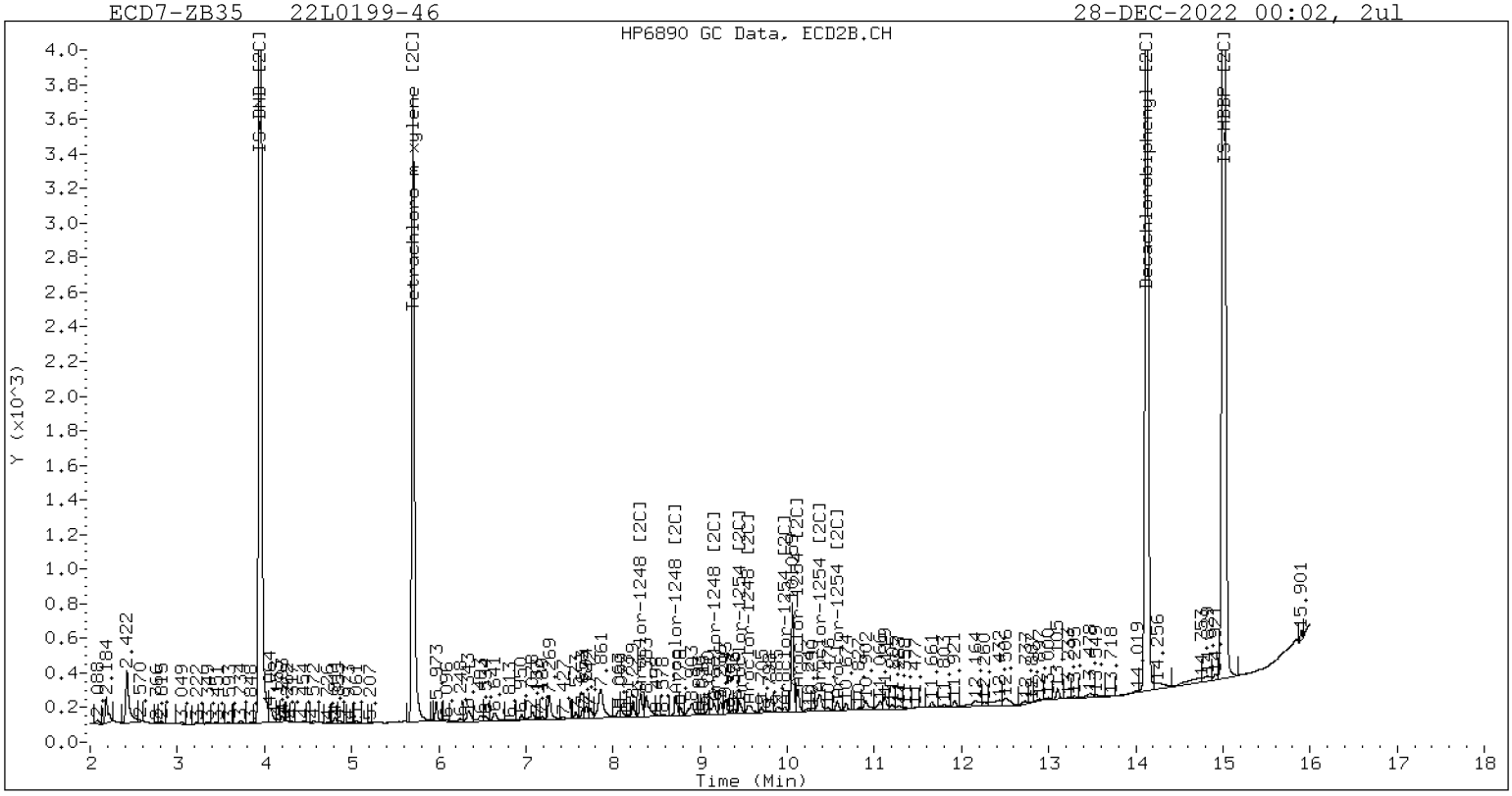
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-46 28-DEC-2022 00:02, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-46 28-DEC-2022 00:02, 2ul

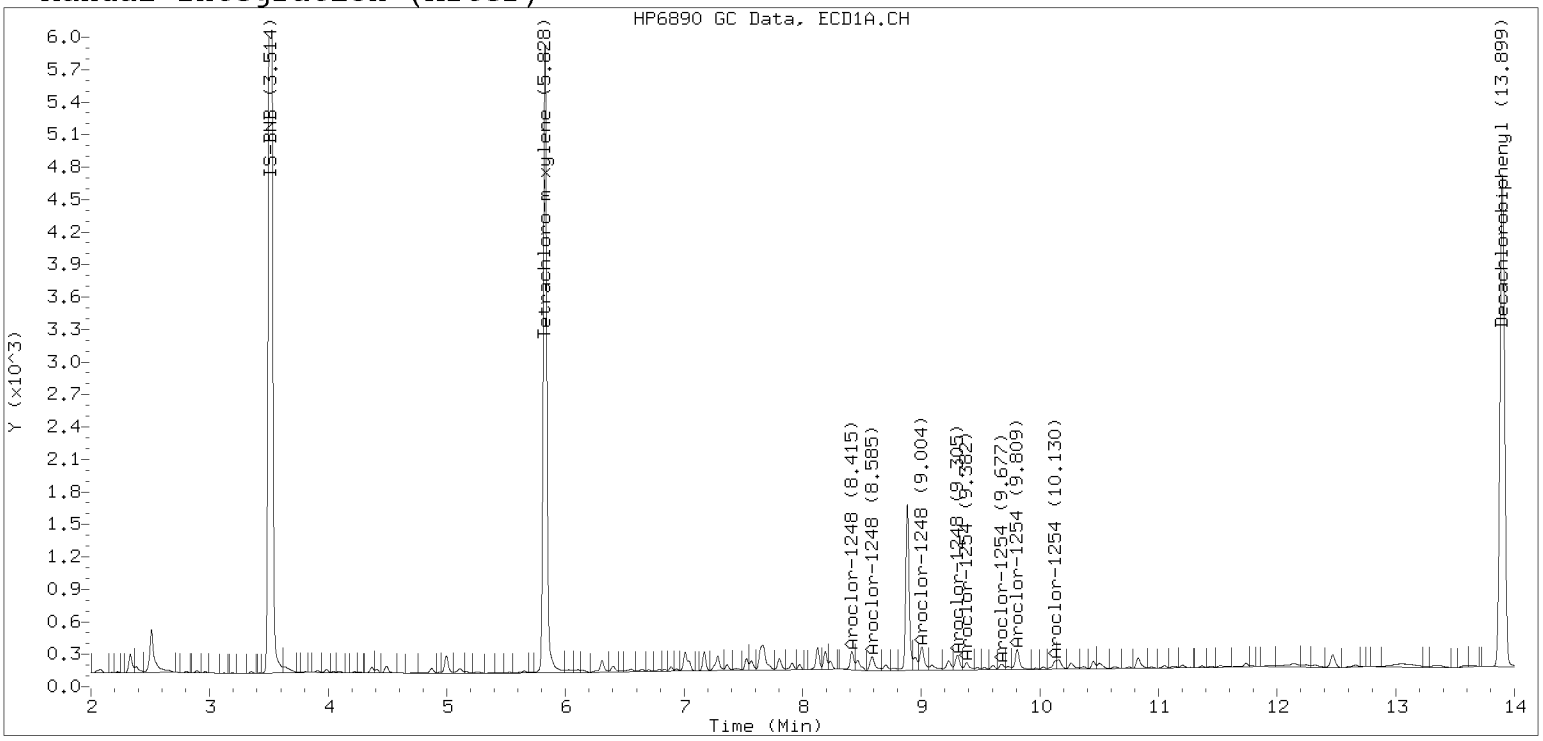


ZB-35 Manual Integration: NO

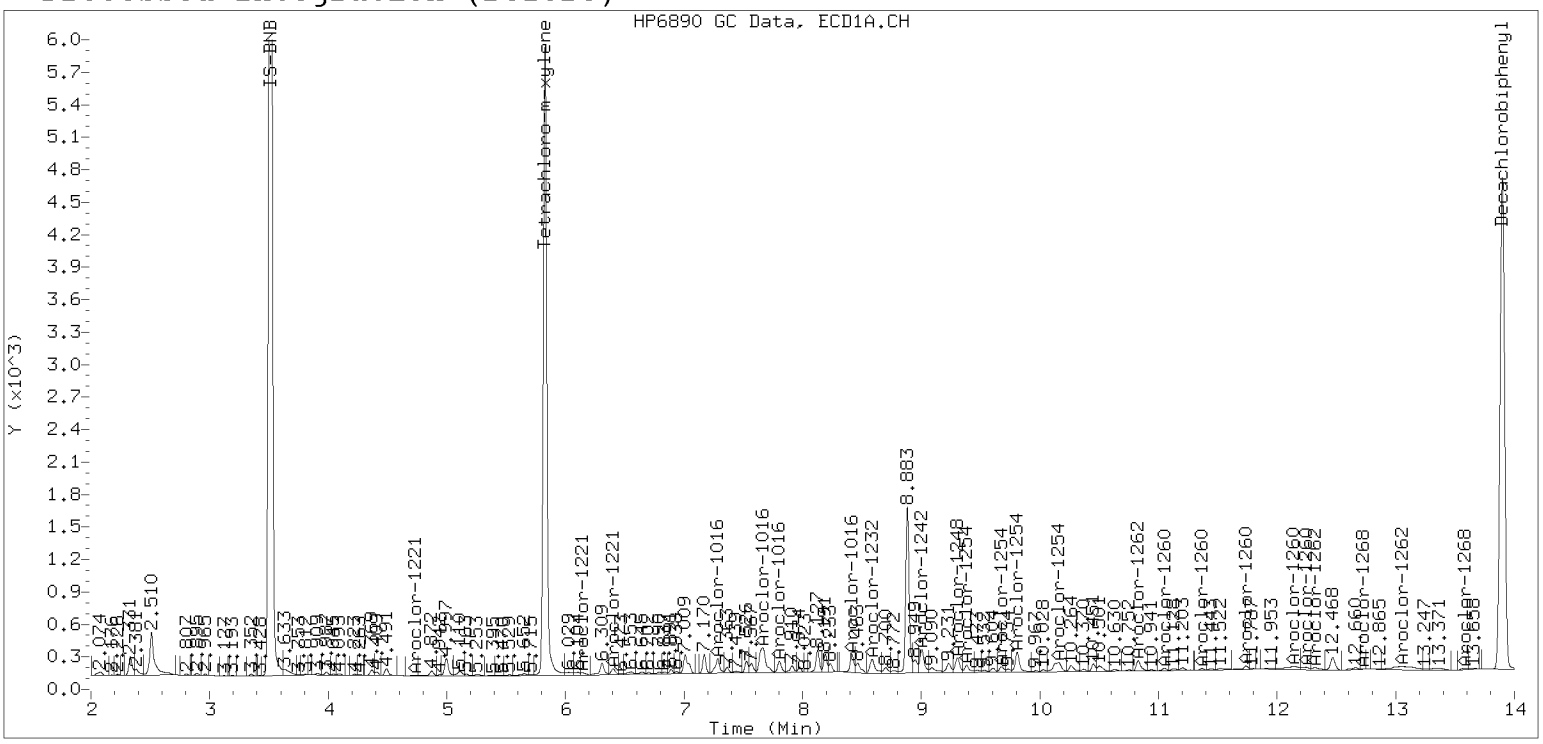
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221227.b/12272222ECD7.D Injection Date: 28-DEC-2022 00:02

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC787L

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-47 B	File ID:	12272223ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 00:23
% Solids:	76.20	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.48 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	4.1	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	2.9	1.6	4.0	J
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9632*	*9.25*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9632*	*6.81*	*85.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9632*	*9.01*	*113*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9632*	*7.70*	*96.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272223ECD7.D
Data file 2: /221227.b/221227.b/12272223ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-47
Client ID:
Injection Date: 28-DEC-2022 00:23
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.004	224595	5.704	-0.005	157195	34.2	38.7	12.2	Tetrachloro-m-xylene
13.896	-0.007	238276	14.125	-0.003	229439	46.5	45.3	2.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	463222	3.5
Hexabromobiphenyl	798898	559571	-30.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	296626	19.1
Hexabromobiphenyl	362541	356970	-1.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.412	-0.016	3232	16.2	1	8.315	-0.007	3882	32.0
Aroclor-1248	2	8.576	-0.028	4695	18.5	2	8.719	-0.008	3238	25.4
Aroclor-1248	3	8.998	-0.025	4666	10.2	3	9.154	-0.019	3242	20.9
Aroclor-1248	4	9.301	-0.010	4613	20.6	4	9.630	0.036	597	3.3
	Total Col1Ave (4 peaks):				16.4	Total Col2Ave (4 peaks):				20.4 RPD = 22
	Corrected Ave (3 peaks):				15.0	Corrected Ave (3 peaks):				16.5 RPD = 10
Aroclor-1254	1	9.301	-0.020	4613	11.3	1	9.452	-0.009	2958	15.5
Aroclor-1254	2	9.375	-0.027	2041	12.9	2	9.969	-0.010	1353	8.8
Aroclor-1254	3	9.669	-0.026	1743	6.8	3	10.116	-0.014	3744	11.3
Aroclor-1254	4	9.801	-0.030	7210	14.4	4	10.361	-0.018	5441	15.9
Aroclor-1254	5	10.144	-0.045	5013	14.6	5	10.567	-0.009	3364	20.4
	Total Col1Ave (5 peaks):				12.0	Total Col2Ave (5 peaks):				14.4 RPD = 18
	Corrected Ave (4 peaks):				11.3	Corrected Ave (4 peaks):				12.9 RPD = 13
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 263192 Col1 Total PCB = 0.1 ppm*

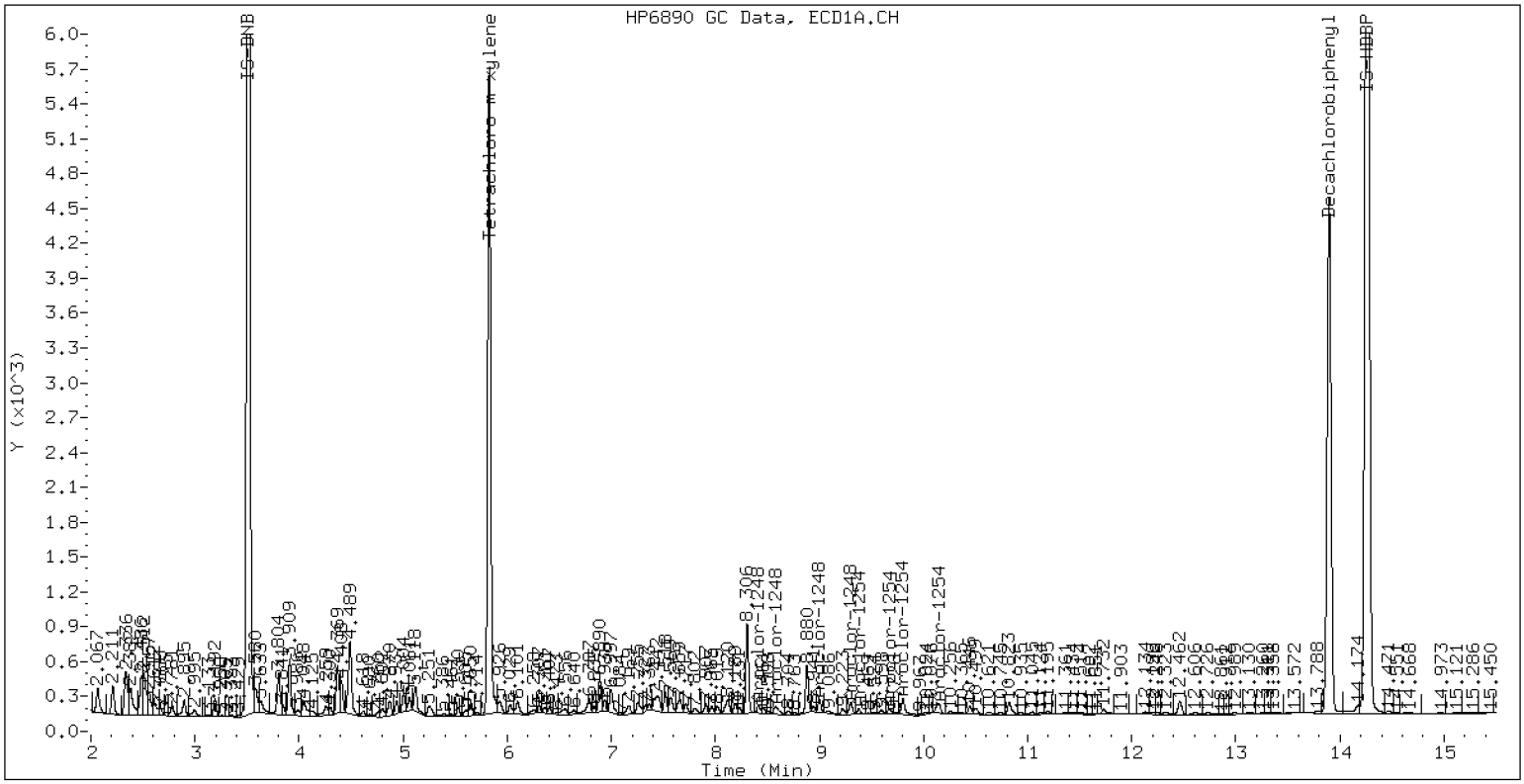
Total PCB Area Col2 (5.809 - 14.028) = 237138 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

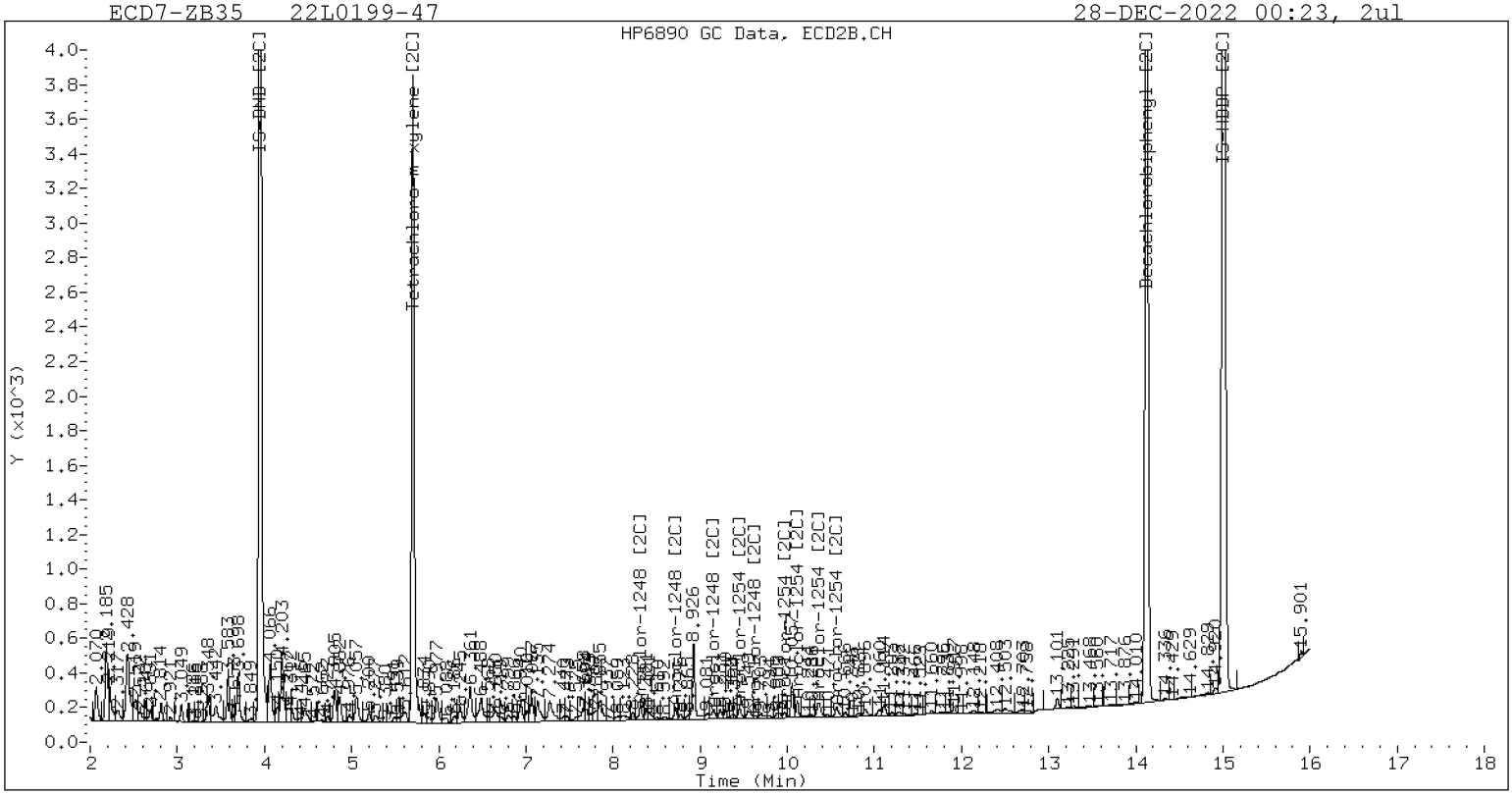
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-47 28-DEC-2022 00:23, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-47 28-DEC-2022 00:23, 2ul

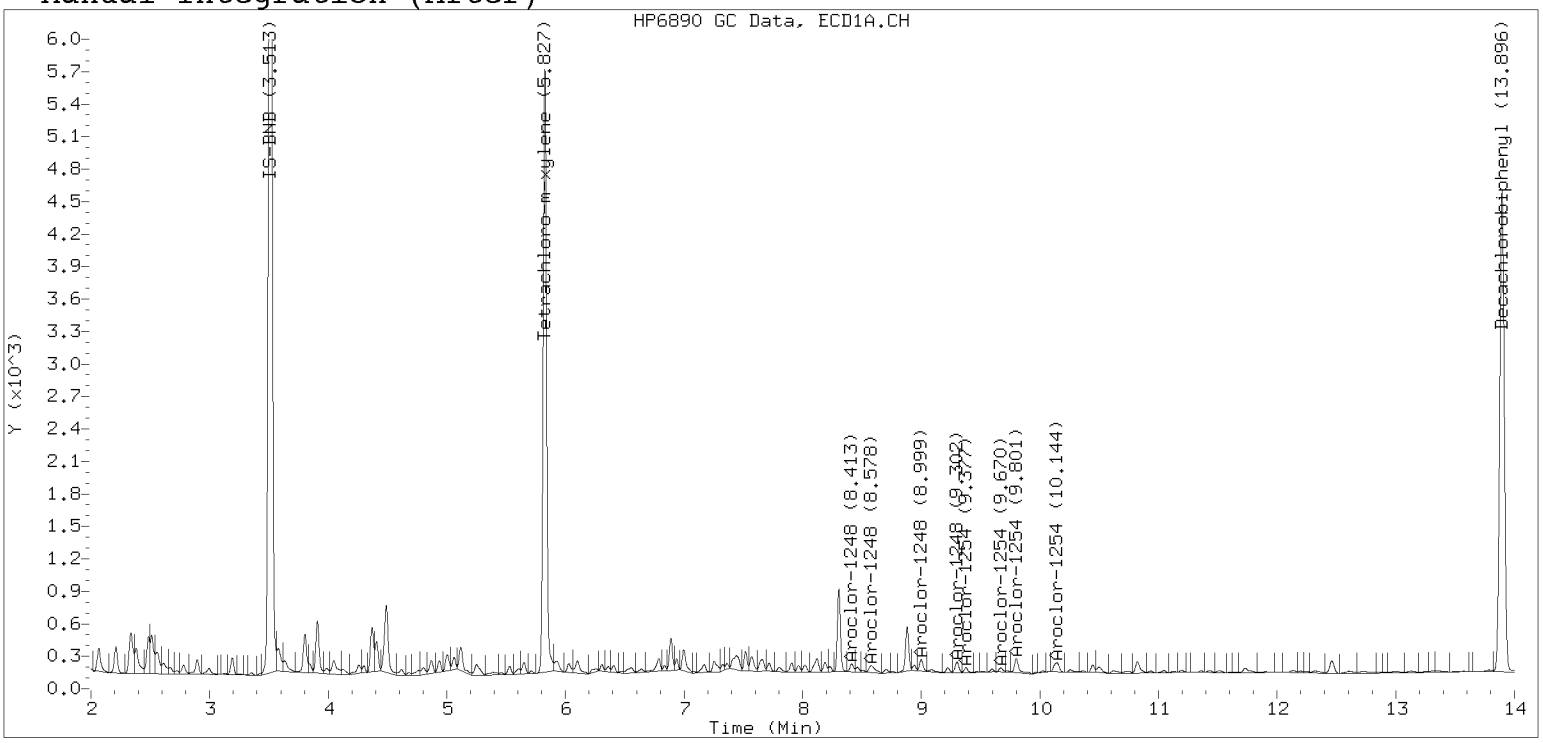


ZB-35 Manual Integration: NO

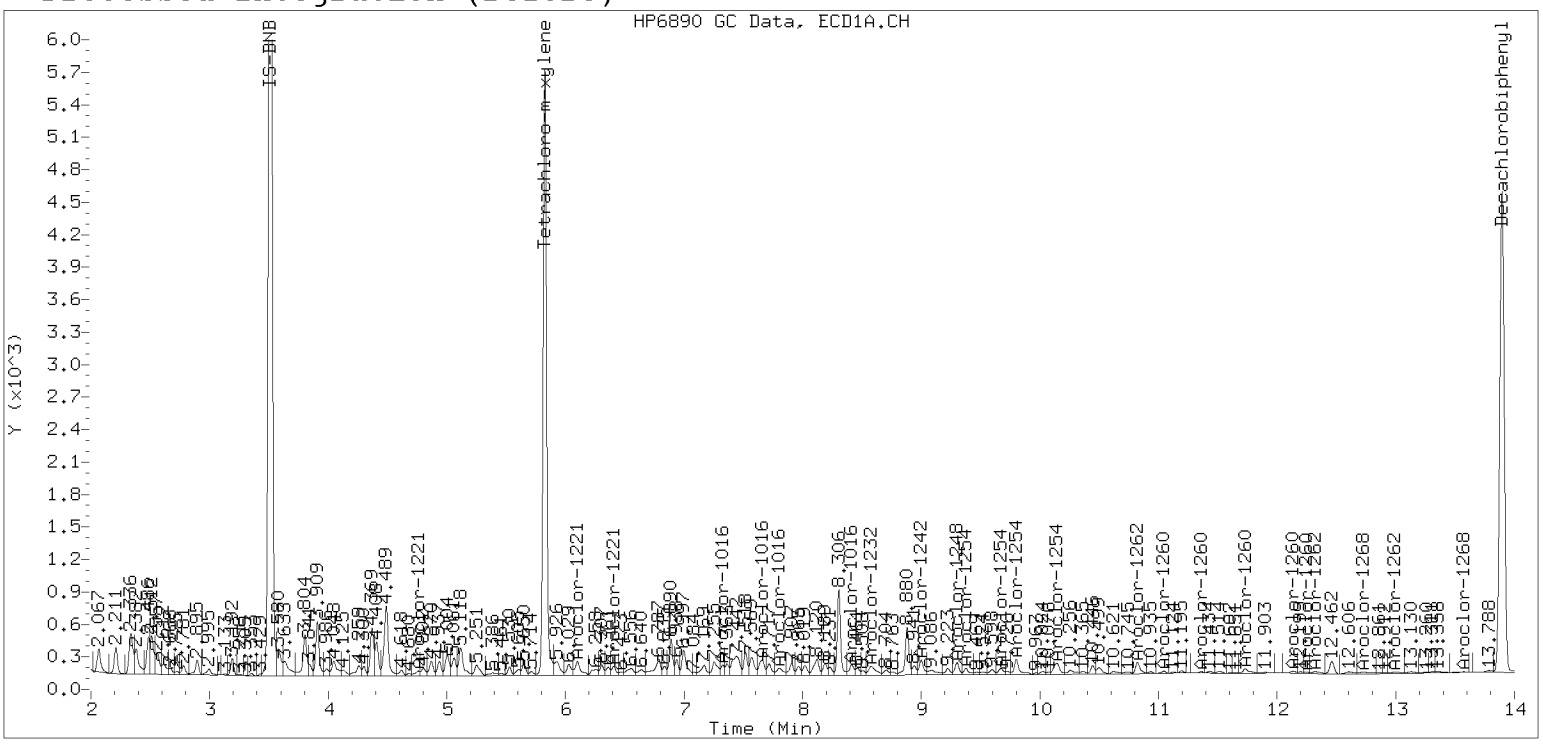
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221227.b/12272223ECD7.D Injection Date: 28-DEC-2022 00:23

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-48 B	File ID:	12272224ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 00:45
% Solids:	54.55	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.97 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	80.1	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	113	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	91.5	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9808*	*8.79*	*110*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9808*	*5.92*	*74.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9808*	*8.45*	*106*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9808*	*6.59*	*82.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272224ECD7.D
Data file 2: /221227.b/221227.b/12272224ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-48
Client ID:
Injection Date: 28-DEC-2022 00:45
Report Date: 01/03/2023 14:57
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	190893	5.702	-0.006	131862	29.7	33.0	10.7	Tetrachloro-m-xylene
13.897	-0.006	175602	14.124	-0.005	187806	44.1	42.3	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453997	1.4
Hexabromobiphenyl	798898	434606	-45.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	291233	16.9
Hexabromobiphenyl	362541	312512	-13.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.410	-0.013	60692	310.9	1	8.312	-0.010	44553	374.5
Aroclor-1248	2	8.578	-0.020	58634	235.3	2	8.718	-0.010	45563	364.1
Aroclor-1248	3	8.995	-0.021	156207	348.4	3	9.150	-0.023	62600	411.3
Aroclor-1248	4	9.298	-0.013	156055	710.5	4	9.543	-0.051	45721	255.9
	Total Col1Ave (4 peaks):				401.3	Total Col2Ave (4 peaks):				351.4 RPD = 13
	Corrected Ave (3 peaks):				298.2	Corrected Ave (3 peaks):				331.5 RPD = 11
										383.3
Aroclor-1254	1	9.298	-0.016	156055	390.4	1	9.449	-0.012	93437	497.6
Aroclor-1254	2	9.373	-0.020	62528	402.2	2	9.967	-0.012	51488	341.1
Aroclor-1254	3	9.666	-0.019	101968	403.9	3	10.116	-0.014	169801	523.3
Aroclor-1254	4	9.798	-0.021	207858	422.4	4	10.363	-0.016	203186	604.6
Aroclor-1254	5	10.131	-0.043	263566	781.3	5	10.565	-0.011	139364	859.8
	Total Col1Ave (5 peaks):				480.0	Total Col2Ave (5 peaks):				565.3 RPD = 16
	Corrected Ave (4 peaks):				404.7	Corrected Ave (4 peaks):				491.6 RPD = 19
Aroclor-1260	1	11.044	-0.011	75745	478.8	1	11.654	-0.009	83629	507.0
Aroclor-1260	2	11.359	-0.012	66538	406.7	2	11.915	-0.011	165186	399.1
Aroclor-1260	3	11.730	-0.016	186677	434.2	3	12.435	-0.010	55965	507.7
Aroclor-1260	4	12.130	-0.020	105483	481.8	4	12.497	-0.012	116228	421.2
Aroclor-1260	5	12.245	-0.010	44402	495.4	NS	---			----
	Total Col1Ave (5 peaks):				459.4	Total Col2Ave (4 peaks):				458.7 RPD = 0
	Corrected Ave (4 peaks):				450.4	Corrected Ave (3 peaks):				442.4 RPD = 2
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.802) = 3982523 Col1 Total PCB = 0.9 ppm*

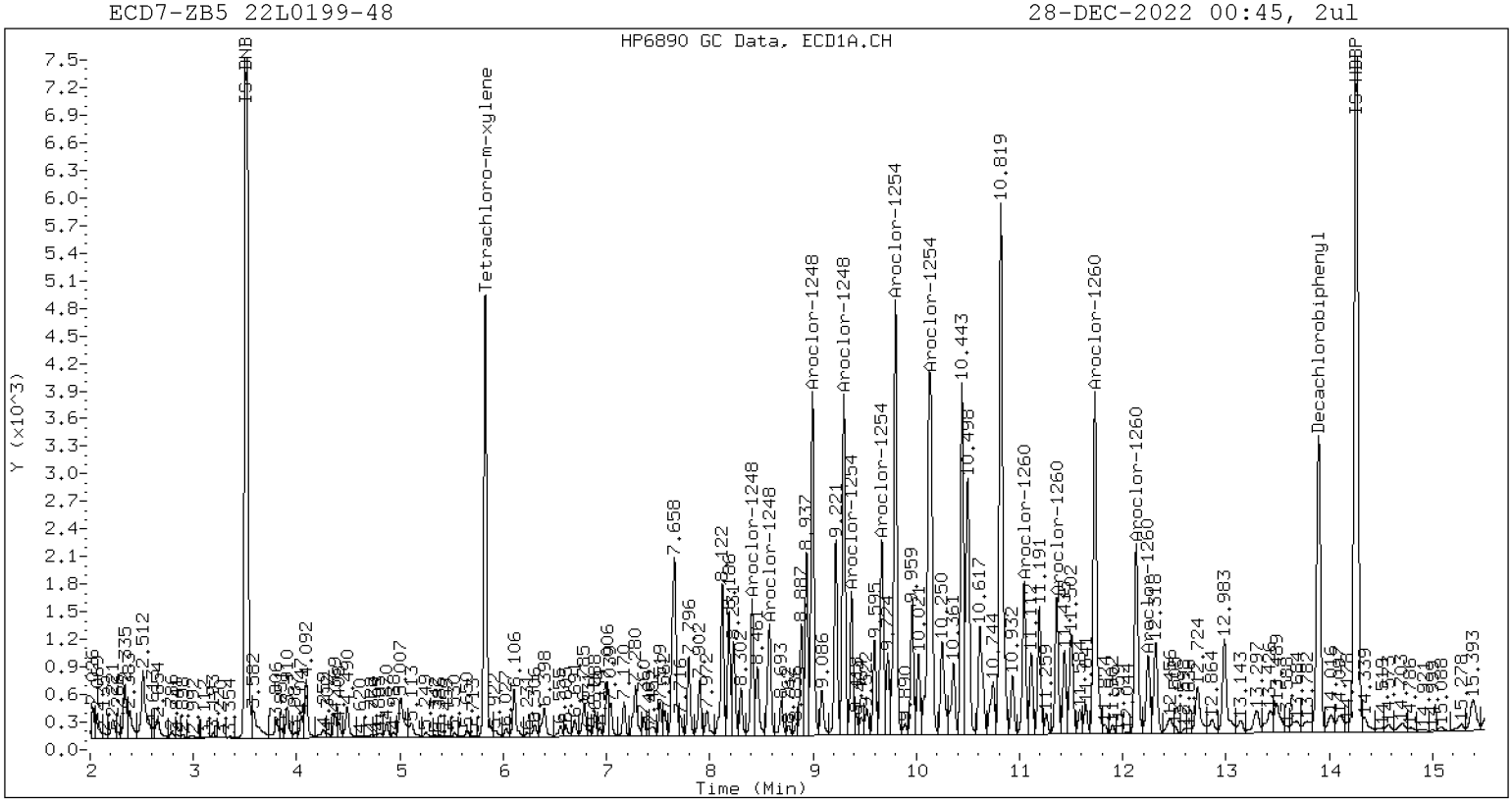
Total PCB Area Col2 (5.809 - 14.028) = 2963579 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

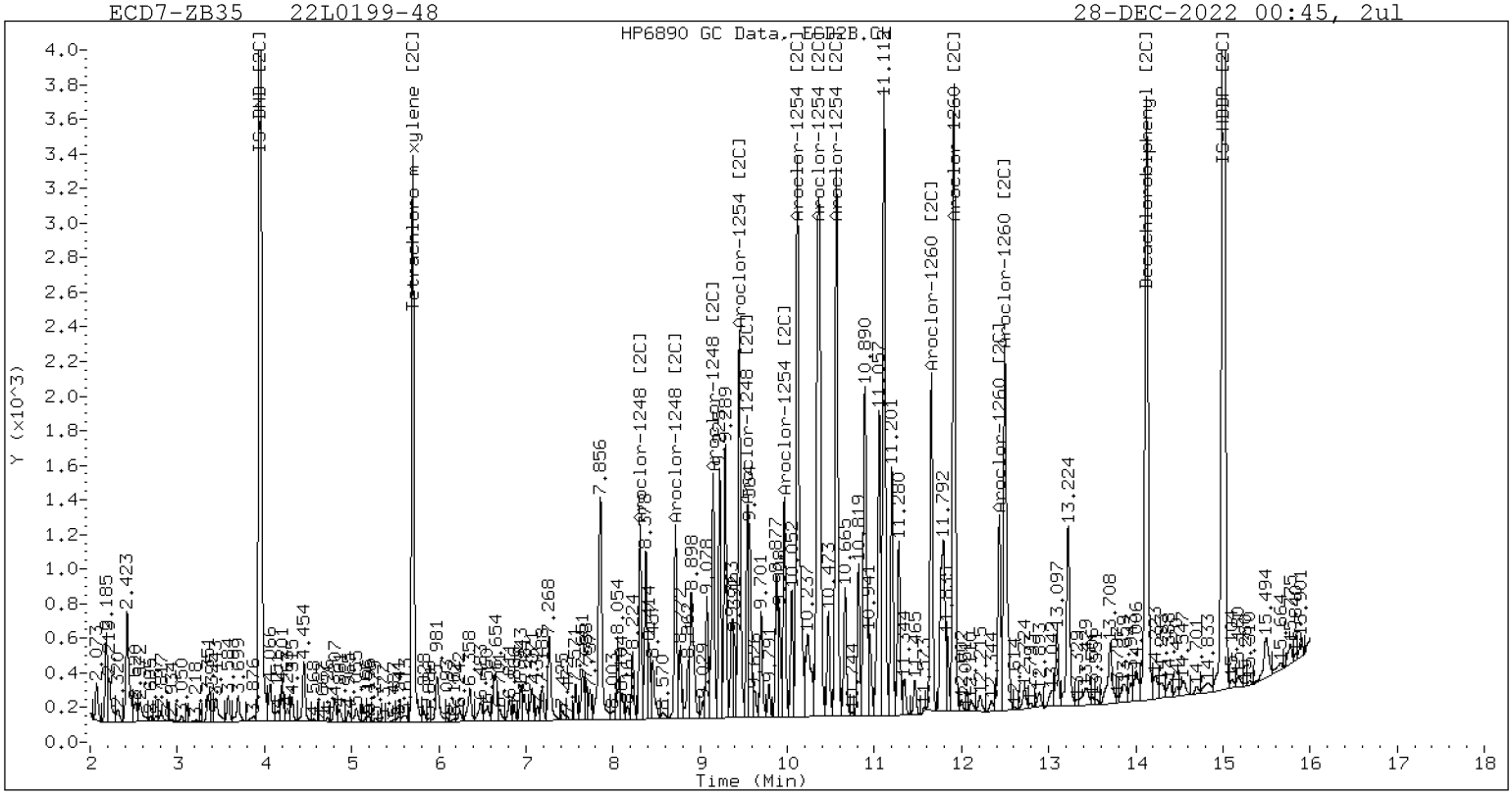
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-48 28-DEC-2022 00:45, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-48 28-DEC-2022 00:45, 2ul

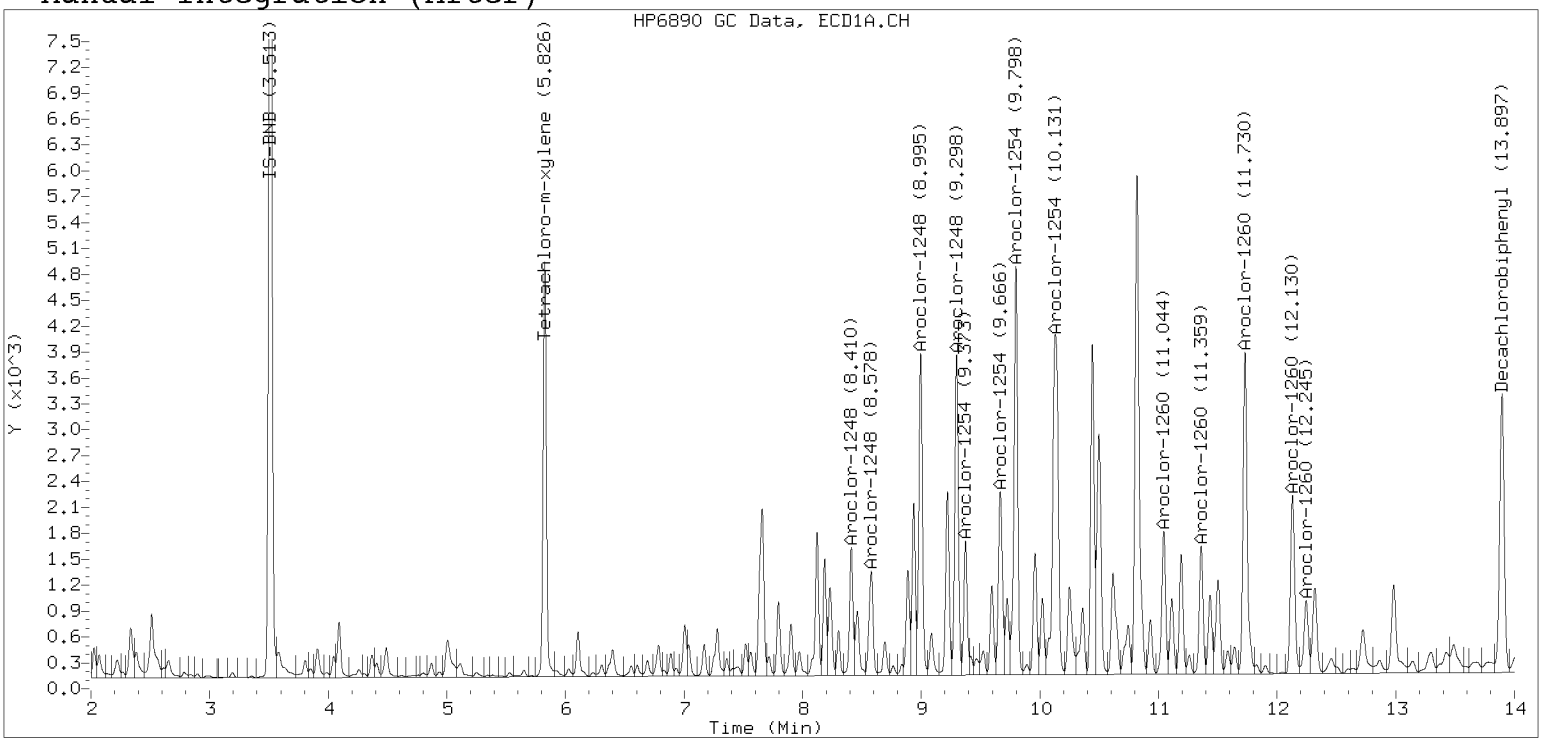


ZB-35 Manual Integration: YES

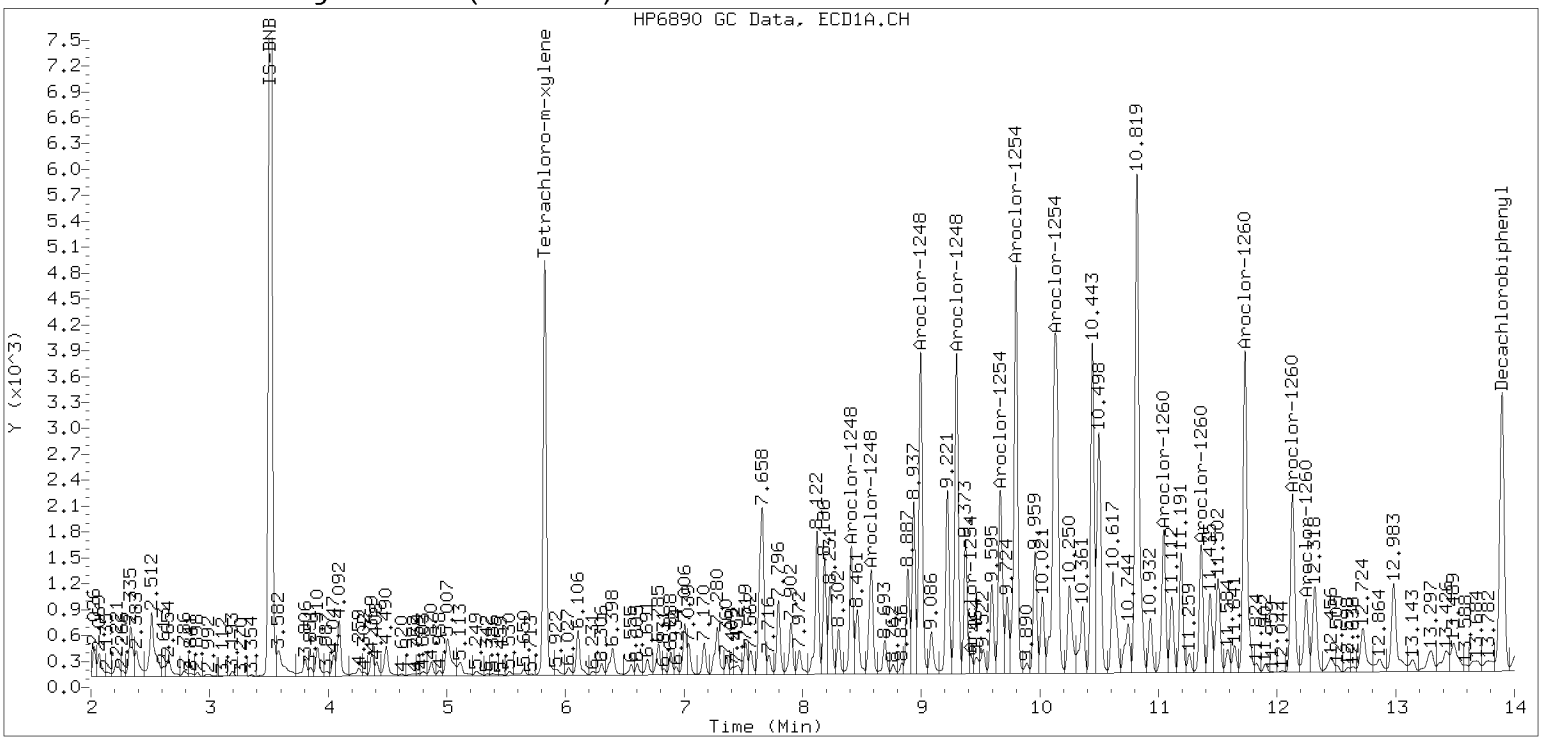
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221227.b/12272224ECD7.D Injection Date: 28-DEC-2022 00:45

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-49 B	File ID:	12312253ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 04:25
% Solids:	56.89	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.99 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	40.0	15.6	40.0	U
11104-28-2	Aroclor 1221	1	10	40.0	15.6	40.0	U
11141-16-5	Aroclor 1232	1	10	40.0	15.6	40.0	U
53469-21-9	Aroclor 1242	1	10	40.0	15.6	40.0	U
12672-29-6	Aroclor 1248	1	10	989	15.6	40.0	D
11097-69-1	Aroclor 1254	2	10	1140	15.6	40.0	D
11096-82-5	Aroclor 1260	2	10	387	5.9	40.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9935*	*12.1*	*151*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9935*	*8.28*	*104*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9935*	*10.3*	*129*	*40 - 126*	*
Tetrachlorometaxylene	*2*	*7.9935*	*8.41*	*105*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312253ECD7.D
Data file 2: /221231.b/221231.b/12312253ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-49RE1
Client ID:
Injection Date: 01-JAN-2023 04:25
Report Date: 01/06/2023 12:25
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.003	28564	5.708	-0.002	19066	4.1	4.2	1.6	Tetrachloro-m-xylene
13.895	-0.008	39480	14.124	-0.006	34023	6.0	5.1	15.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	486597	8.7
Hexabromobiphenyl	798898	714248	-10.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330343	32.6
Hexabromobiphenyl	362541	465554	28.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.415	-0.010	72011	344.2	1	8.316	-0.007	55552	411.6
Aroclor-1248	2	8.584	-0.015	73483	275.1	2	8.722	-0.007	49648	349.8
Aroclor-1248	3	9.000	-0.019	207737	432.3	3	9.155	-0.019	79837	462.4
Aroclor-1248	4	9.302	-0.010	218418	927.8	4	9.548	-0.048	61985	305.8
		Total Col1Ave (4 peaks):			494.8		Total Col2Ave (4 peaks):			382.4 RPD = 26
		Corrected Ave (3 peaks):			350.5		Corrected Ave (3 peaks):			355.8 RPD = 1
Aroclor-1254	1	9.302	-0.011	218418	509.8	1	9.453	-0.009	119513	561.1
Aroclor-1254	2	9.378	-0.015	92964	557.9	2	9.971	-0.008	72795	425.1
Aroclor-1254	3	9.669	-0.016	132841	490.9	3	10.120	-0.010	203661	553.3
Aroclor-1254	4	9.803	-0.017	278312	527.6	4	10.360	-0.018	236206	619.7
Aroclor-1254	5	10.146	-0.027	188809	522.2	5	10.568	-0.008	126220	686.5
		Total Col1Ave (5 peaks):			521.7		Total Col2Ave (5 peaks):			569.1 RPD = 9
		Corrected Ave (4 peaks):			512.6		Corrected Ave (4 peaks):			539.8 RPD = 5
Aroclor-1260	1	11.047	-0.010	46629	179.4	1	11.657	-0.006	73280	298.2
Aroclor-1260	2	11.363	-0.011	44716	166.3	2	11.917	-0.009	98098	159.1
Aroclor-1260	3	11.732	-0.015	115454	163.4	3	12.437	-0.008	25193	153.4
Aroclor-1260	4	12.131	-0.019	76041	211.3	4	12.500	-0.009	67534	164.3
Aroclor-1260	5	12.246	-0.010	21735	147.6	NS	---			----
		Total Col1Ave (5 peaks):			173.6		Total Col2Ave (4 peaks):			193.7 RPD = 11
		Corrected Ave (4 peaks):			164.2		Corrected Ave (3 peaks):			158.9 RPD = 3
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.802) = 4005919 Col1 Total PCB = 0.9 ppm*

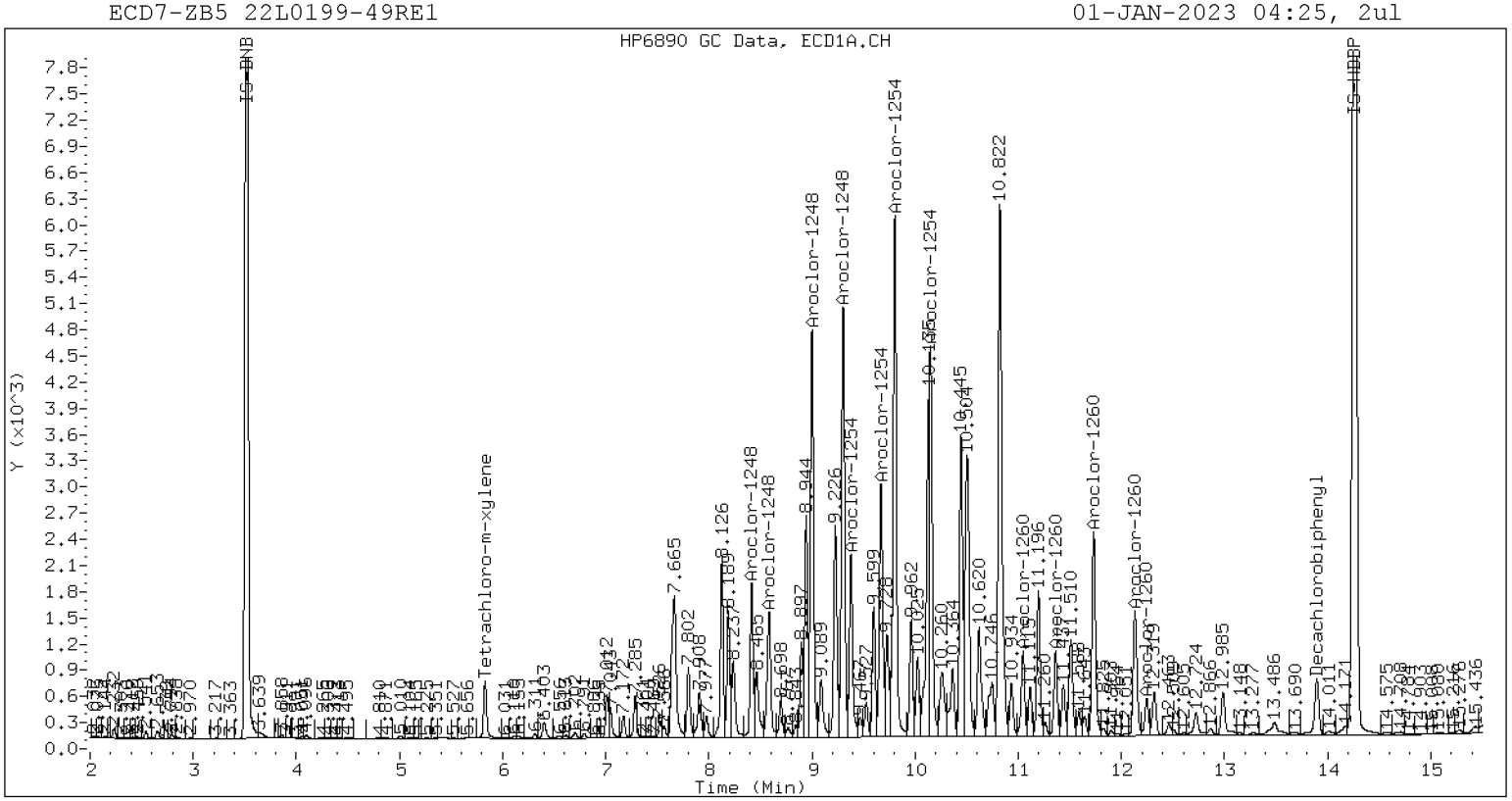
Total PCB Area Col2 (5.810 - 14.030) = 2756223 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

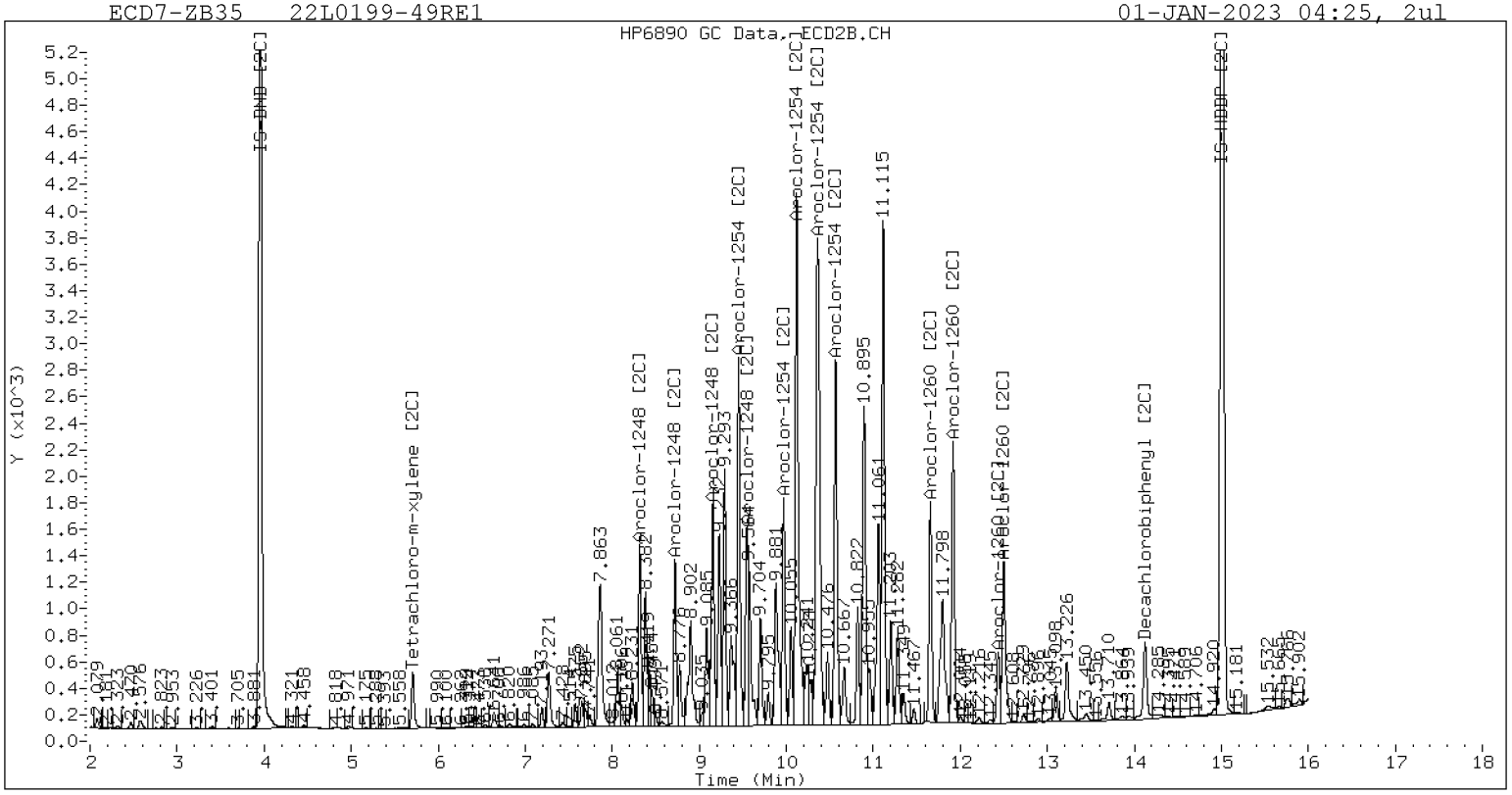
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-49RE1 01-JAN-2023 04:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-49RE1 01-JAN-2023 04:25, 2ul

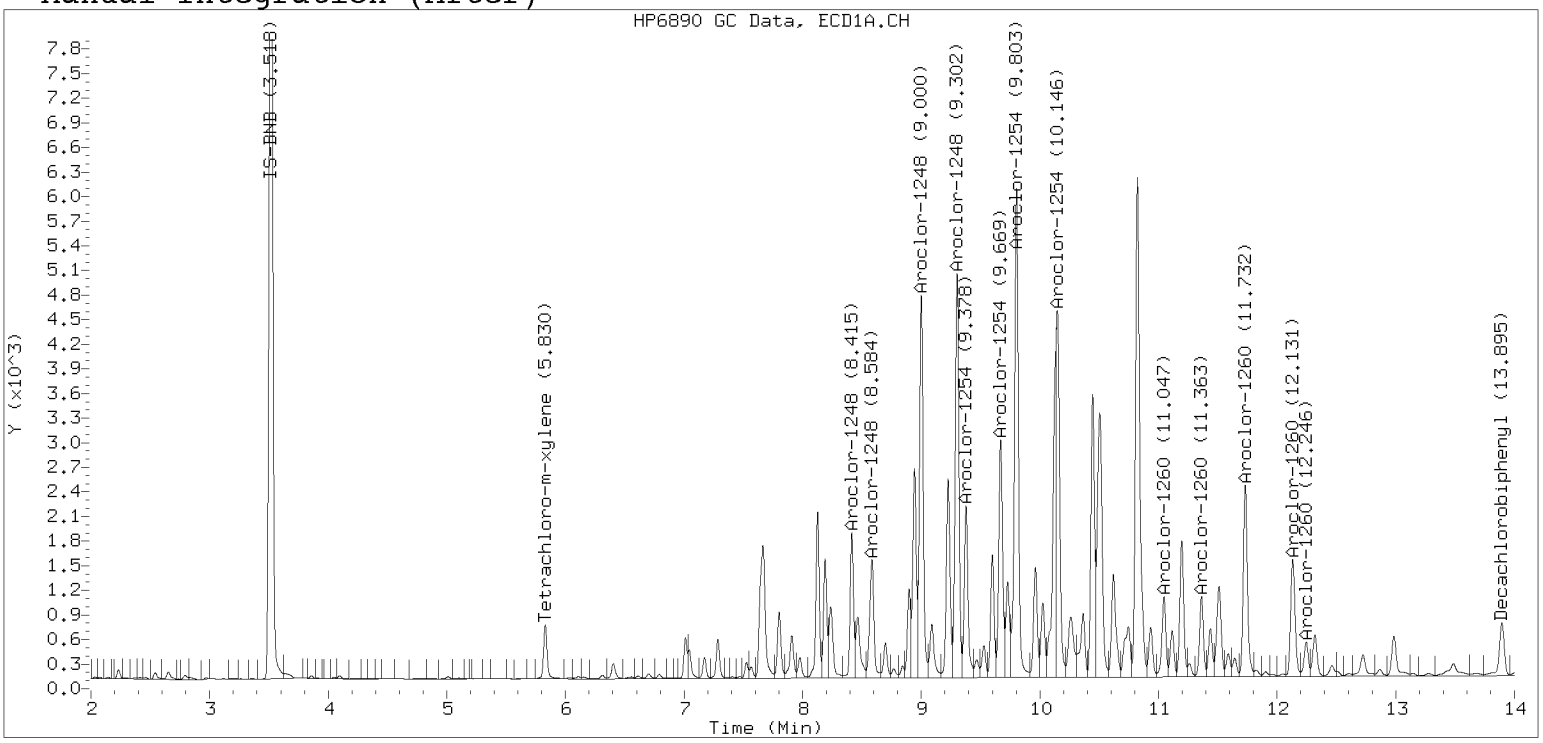


ZB-35 Manual Integration: YES

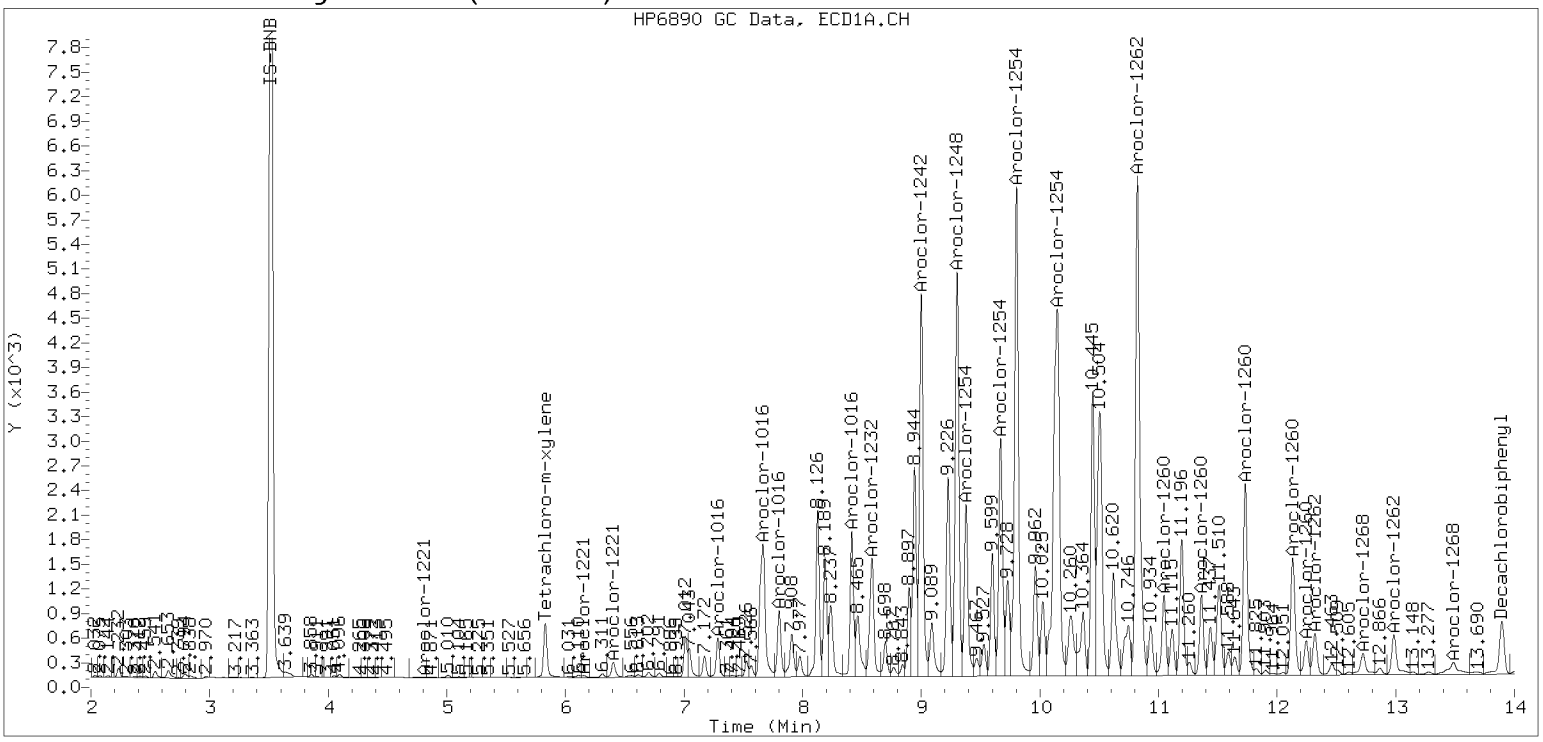
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312253ECD7.D Injection Date: 01-JAN-2023 04:25

Manual Integration (After)



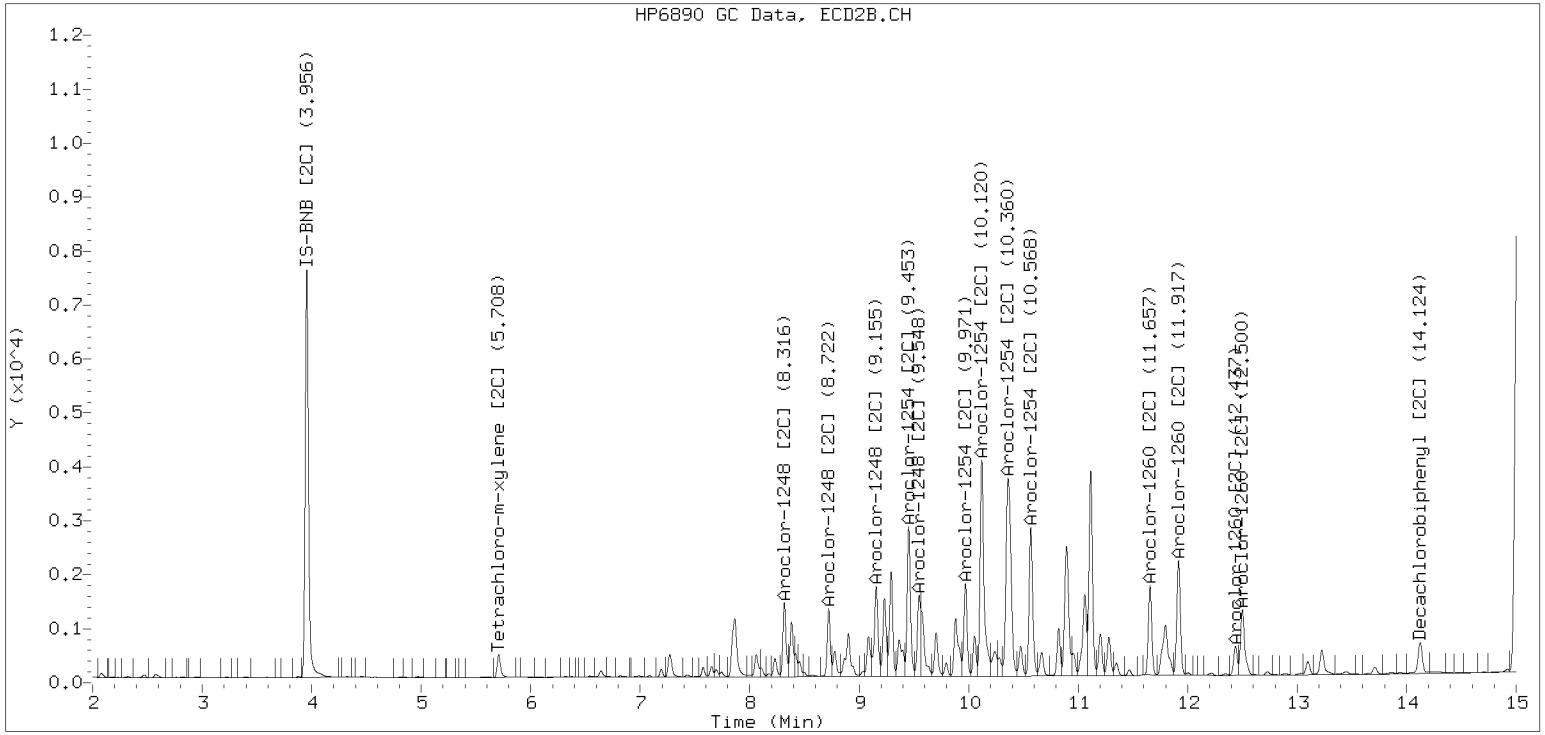
Processed Integration (Before)



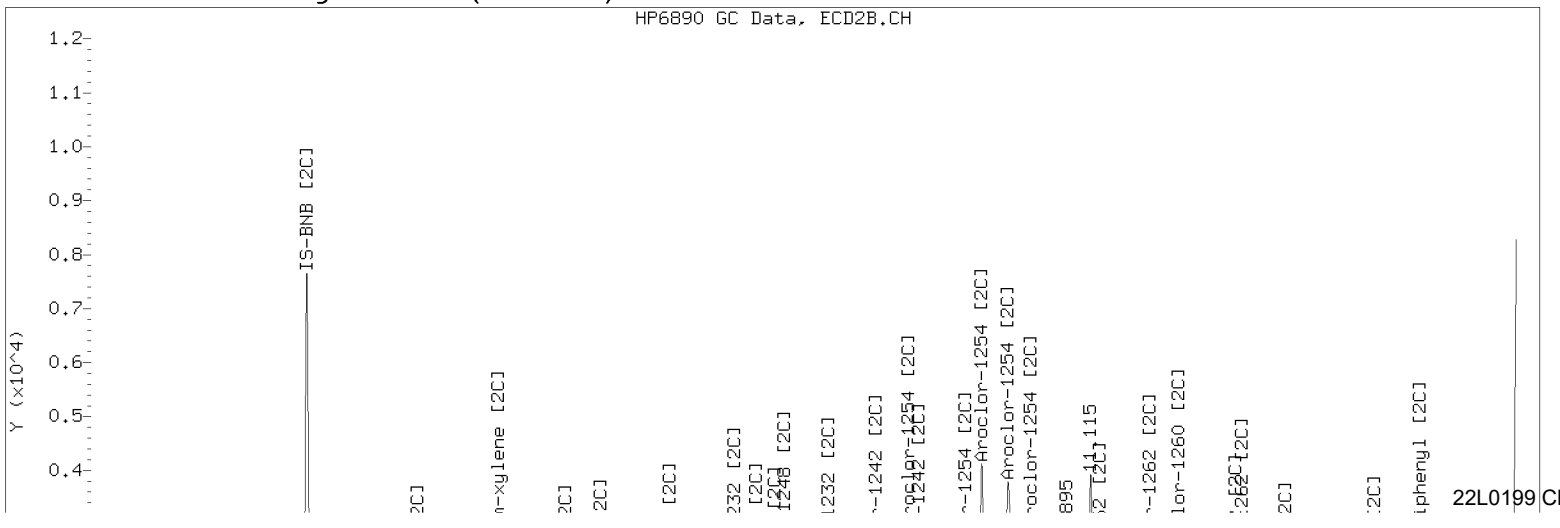
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312253ECD7.D Injection Date: 01-JAN-2023 04:25

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-50 B	File ID:	12312254ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 04:46
% Solids:	56.26	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.22 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	394	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	464	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	196	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9994*	*5.38*	*67.3*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9994*	*3.93*	*49.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9994*	*4.53*	*56.6*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9994*	*4.18*	*52.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312254ECD7.D
Data file 2: /221231.b/221231.b/12312254ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-50RE1
Client ID:
Injection Date: 01-JAN-2023 04:46
Report Date: 01/06/2023 12:25
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.004	27972	5.706	-0.004	19220	3.9	4.2	6.2	Tetrachloro-m-xylene
13.896	-0.007	35247	14.124	-0.006	30260	5.4	4.5	17.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	502079	12.2
Hexabromobiphenyl	798898	714467	-10.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	335201	34.6
Hexabromobiphenyl	362541	470676	29.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.414	-0.011	60482	280.2	1	8.316	-0.007	48733	355.9
Aroclor-1248	2	8.583	-0.016	56317	204.3	2	8.721	-0.007	41686	289.4
Aroclor-1248	3	9.000	-0.019	167074	337.0	3	9.155	-0.019	62567	357.1
Aroclor-1248	4	9.302	-0.011	183575	755.7	4	9.546	-0.050	54961	267.2
		Total Col1Ave (4 peaks):			394.3		Total Col2Ave (4 peaks):			317.4 RPD = 22
		Corrected Ave (3 peaks):			273.8		Corrected Ave (3 peaks):			304.2 RPD = 11
										334.13
Aroclor-1254	1	9.302	-0.012	183575	415.3	1	9.452	-0.009	100437	464.7
Aroclor-1254	2	9.377	-0.016	77576	451.2	2	9.970	-0.008	53873	310.1
Aroclor-1254	3	9.676	-0.009	156840	561.7	3	10.120	-0.011	167550	448.6
Aroclor-1254	4	9.802	-0.018	229099	420.9	4	10.363	-0.016	194106	501.8
Aroclor-1254	5	10.147	-0.026	138071	370.1	5	10.568	-0.008	111122	595.7
		Total Col1Ave (5 peaks):			443.9		Total Col2Ave (5 peaks):			464.2 RPD = 4
		Corrected Ave (4 peaks):			414.4		Corrected Ave (4 peaks):			431.3 RPD = 4
Aroclor-1260	1	11.046	-0.010	50366	193.7	1	11.656	-0.007	64872	261.1
Aroclor-1260	2	11.362	-0.011	47528	176.7	2	11.917	-0.009	99859	160.2
Aroclor-1260	3	11.731	-0.015	132176	187.0	3	12.436	-0.009	33822	203.7
Aroclor-1260	4	12.133	-0.017	70969	197.2	4	12.500	-0.009	66703	160.5
Aroclor-1260	5	12.246	-0.010	23309	158.2	NS	---			----
		Total Col1Ave (5 peaks):			182.6		Total Col2Ave (4 peaks):			196.4 RPD = 7
		Corrected Ave (4 peaks):			178.9		Corrected Ave (3 peaks):			174.8 RPD = 2
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.802) = 3513192 Col1 Total PCB = 0.7 ppm*

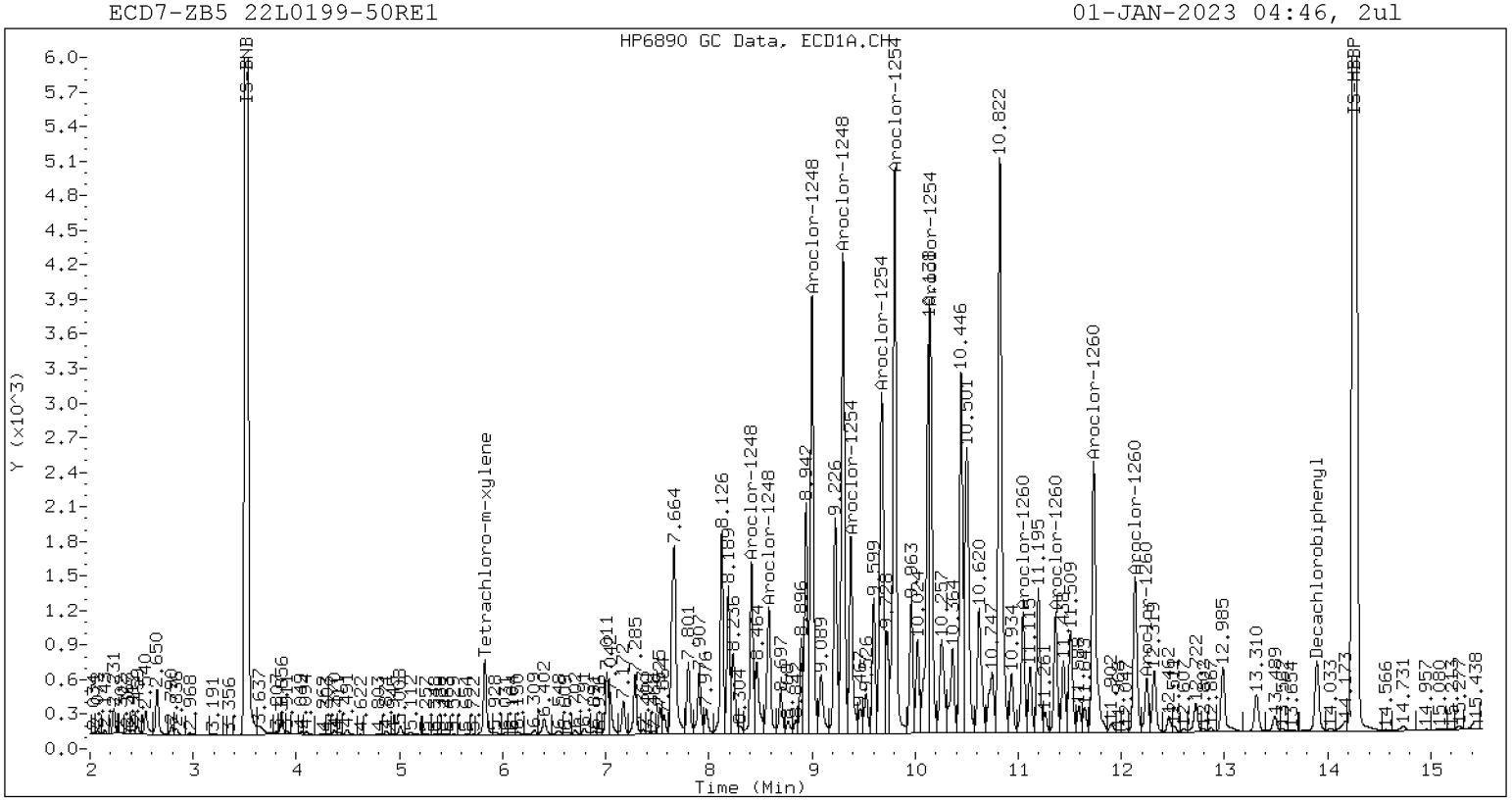
Total PCB Area Col2 (5.810 - 14.030) = 2402351 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

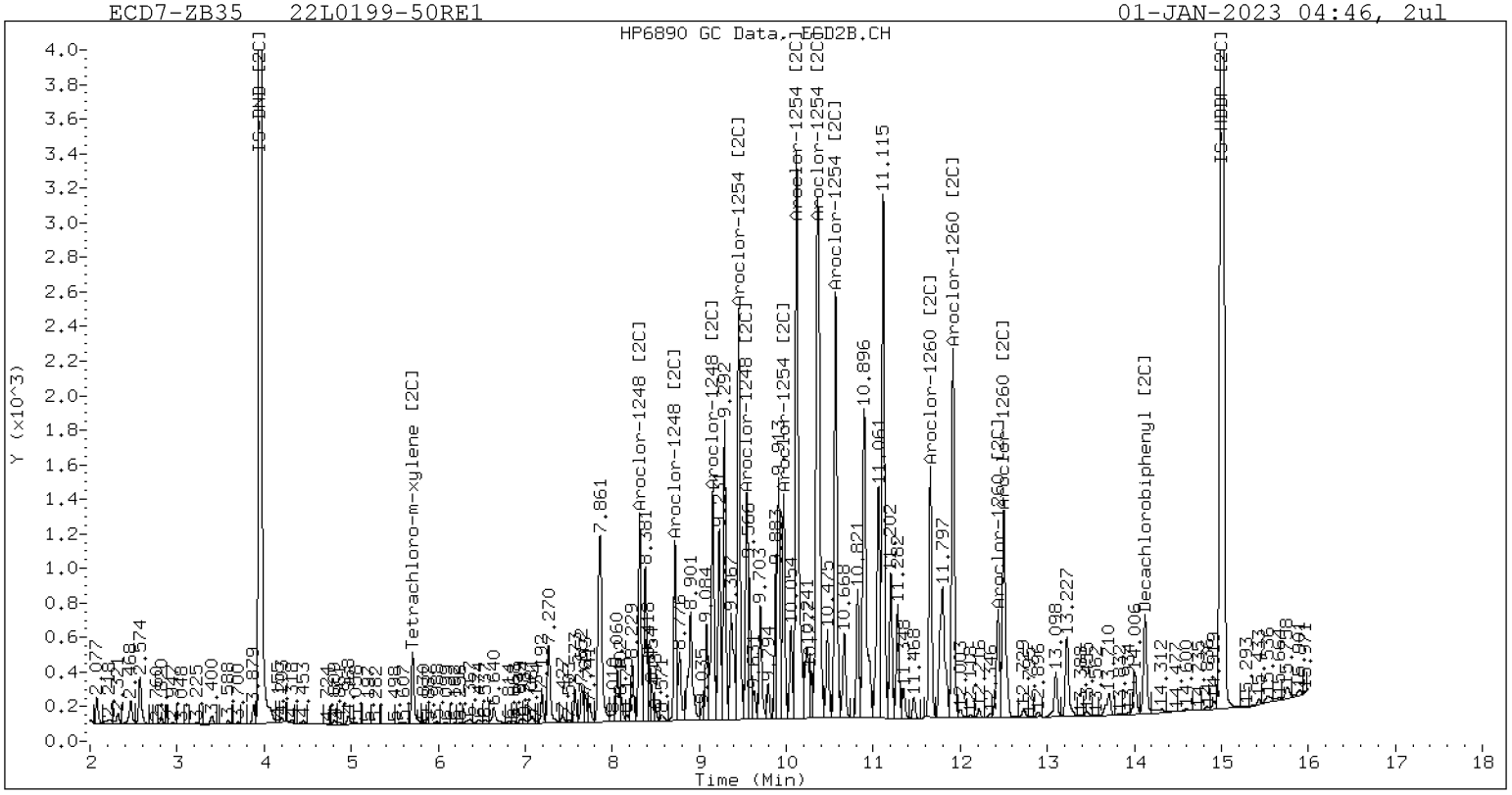
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-50RE1 01-JAN-2023 04:46, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-50RE1 01-JAN-2023 04:46, 2ul

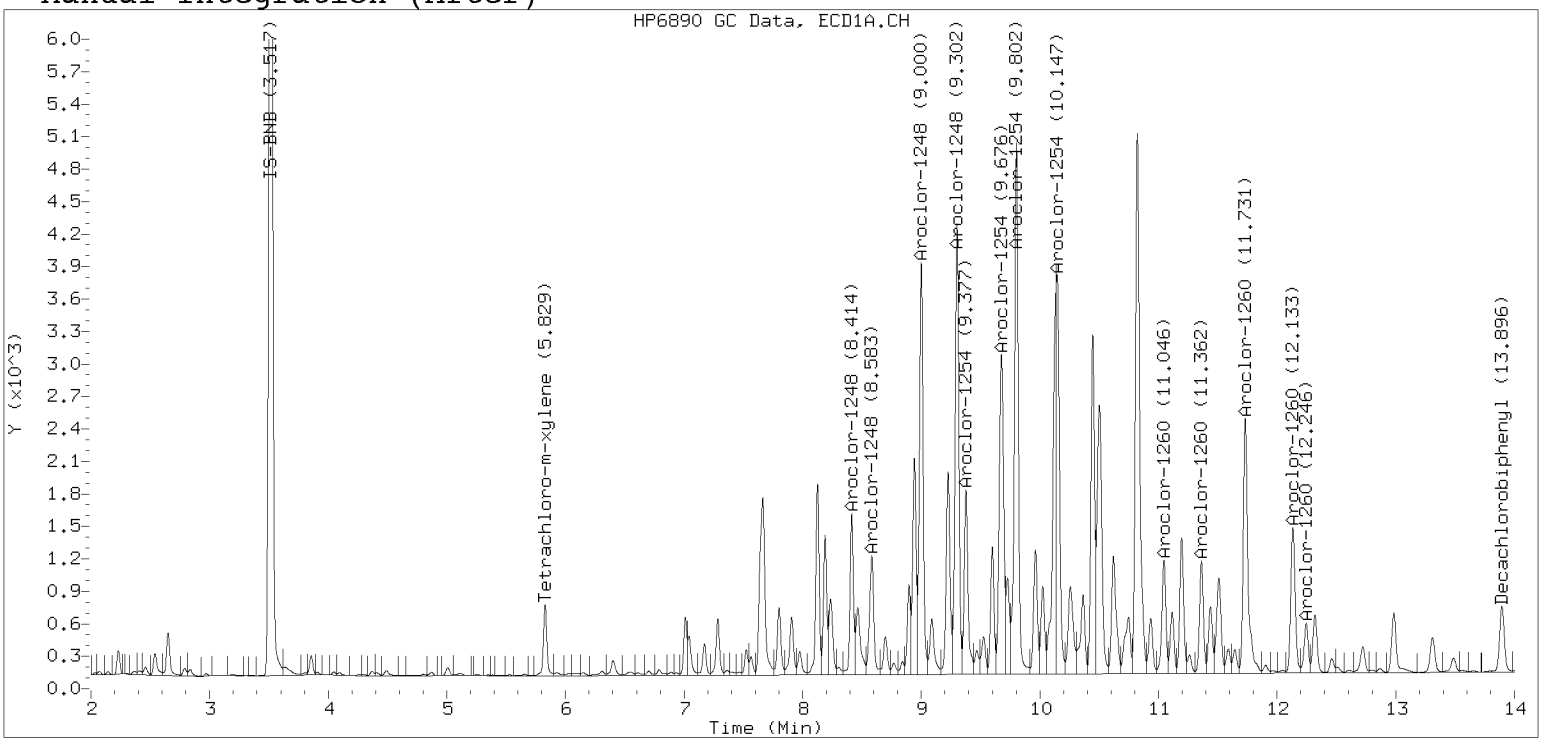


ZB-35 Manual Integration: YES

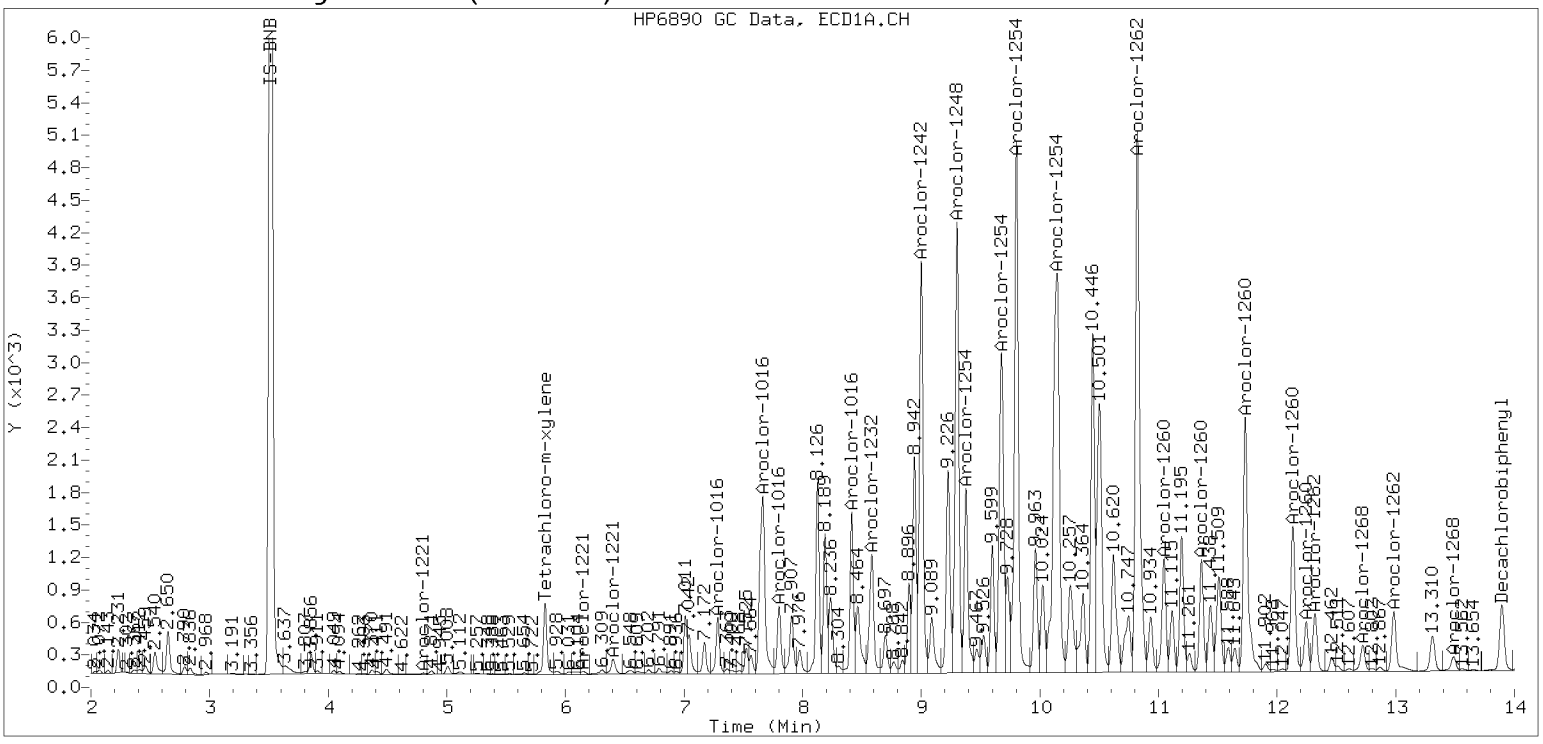
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312254ECD7.D Injection Date: 01-JAN-2023 04:46

Manual Integration (After)



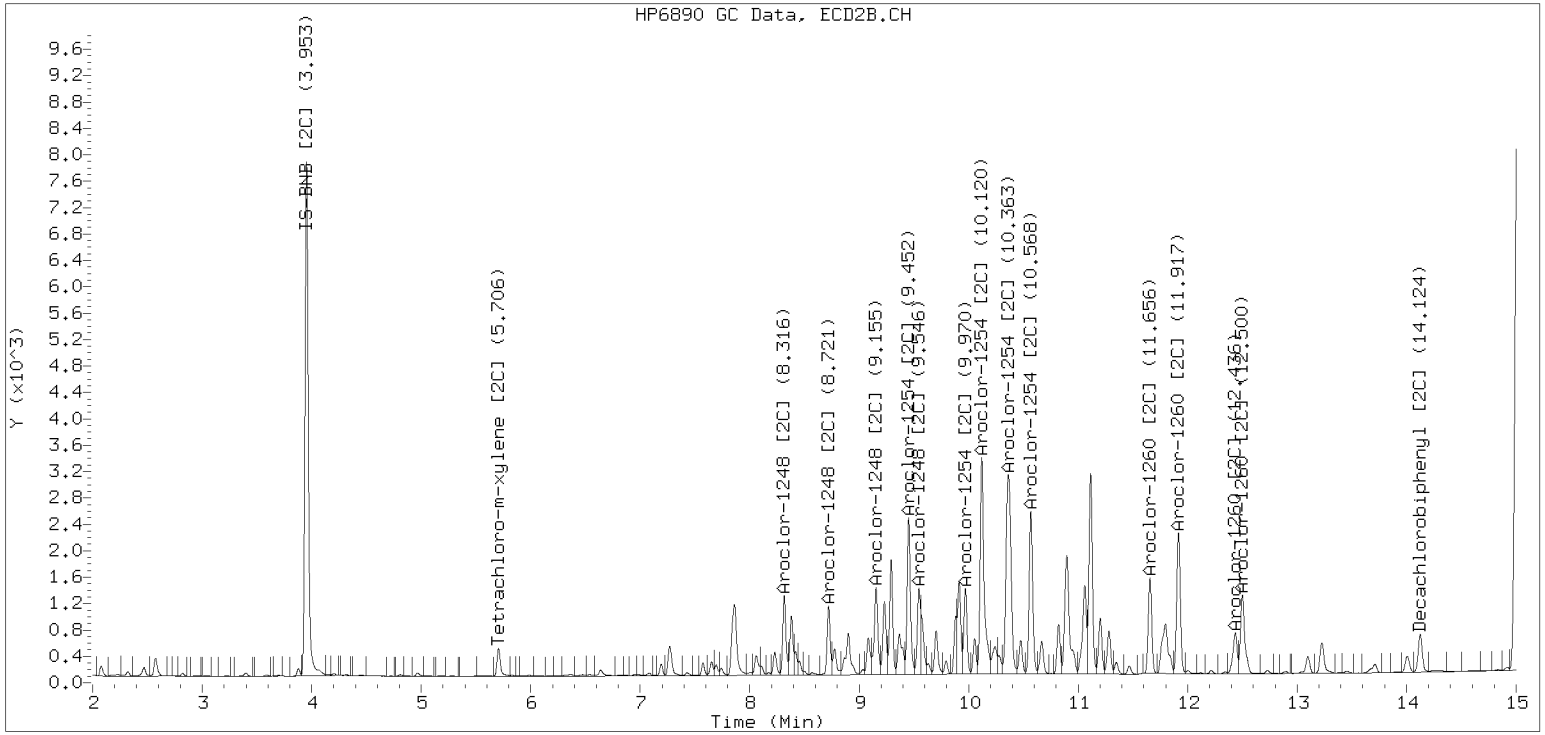
Processed Integration (Before)



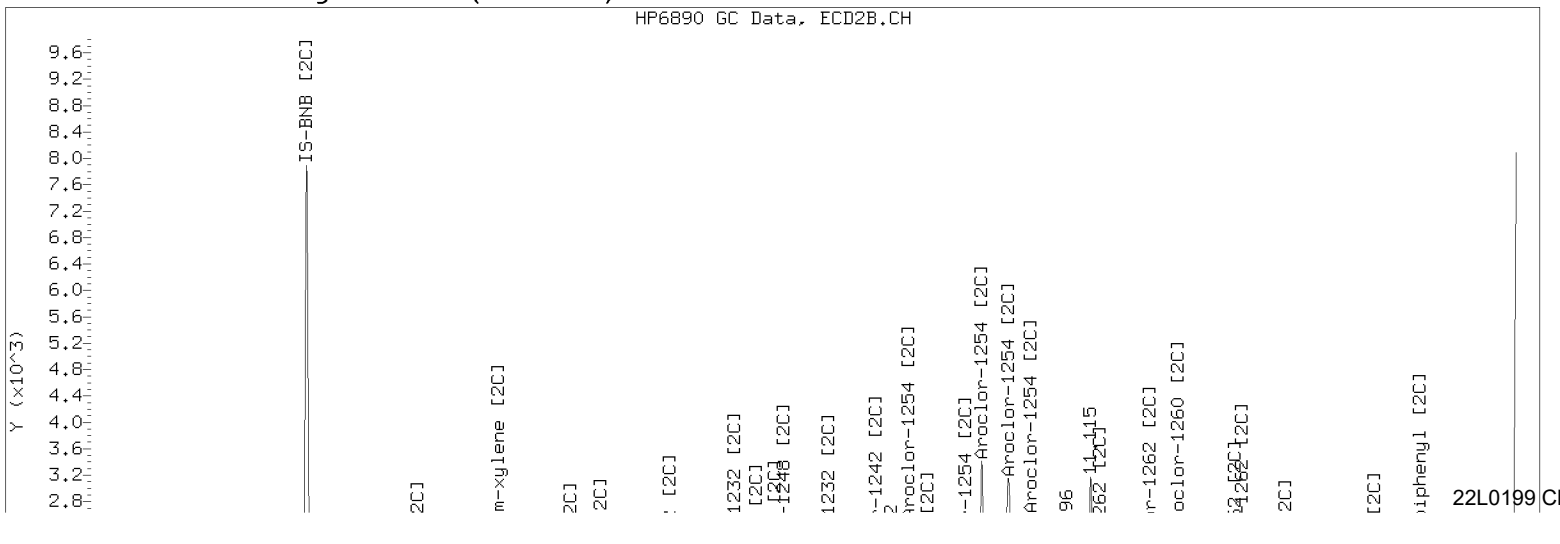
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312254ECD7.D Injection Date: 01-JAN-2023 04:46

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-51 B	File ID:	12312255ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 05:07
% Solids:	59.64	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.98 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	275	7.8	20.0	D
11097-69-1	Aroclor 1254	1	5	330	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	120	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9920*	*9.08*	*114*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9920*	*7.35*	*92.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9920*	*7.99*	*100*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9920*	*7.61*	*95.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312255ECD7.D
Data file 2: /221231.b/221231.b/12312255ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-51RE1
Client ID:
Injection Date: 01-JAN-2023 05:07
Report Date: 01/06/2023 12:25
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.004	52023	5.707	-0.003	34403	7.4	7.6	3.5	Tetrachloro-m-xylene
13.896	-0.006	59720	14.125	-0.005	53274	9.1	8.0	12.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	499062	11.5
Hexabromobiphenyl	798898	716886	-10.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	329306	32.2
Hexabromobiphenyl	362541	469131	29.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.010	41996	195.7	1	8.316	-0.007	37393	278.0
Aroclor-1248	2	8.583	-0.016	37656	137.4	2	8.722	-0.007	30219	213.6
Aroclor-1248	3	9.001	-0.018	117225	237.8	3	9.156	-0.018	42253	245.5
Aroclor-1248	4	9.303	-0.010	127846	529.5	4	9.547	-0.048	59278	293.4
	Total Col1Ave (4 peaks):				275.1	Total Col2Ave (4 peaks):				257.6 RPD = 7
	Corrected Ave (3 peaks):				190.3	Corrected Ave (3 peaks):				245.7 RPD = 25
Aroclor-1254	1	9.303	-0.011	127846	290.9	1	9.453	-0.008	71365	336.1
Aroclor-1254	2	9.378	-0.015	58680	343.4	2	9.972	-0.007	33679	197.3
Aroclor-1254	3	9.680	-0.005	115479	416.1	3	10.120	-0.010	119618	326.0
Aroclor-1254	4	9.803	-0.017	171290	316.6	4	10.364	-0.014	136011	357.9
Aroclor-1254	5	10.146	-0.027	105305	284.0	5	10.568	-0.007	73450	400.8
	Total Col1Ave (5 peaks):				330.2	Total Col2Ave (5 peaks):				323.6 RPD = 2
	Corrected Ave (4 peaks):				308.7	Corrected Ave (4 peaks):				304.3 RPD = 1
Aroclor-1260	1	11.047	-0.010	37846	145.0	1	11.657	-0.006	41892	169.2
Aroclor-1260	2	11.363	-0.010	29977	111.1	2	11.918	-0.008	61228	98.5
Aroclor-1260	3	11.732	-0.014	74277	104.7	3	12.437	-0.008	18612	112.5
Aroclor-1260	4	12.133	-0.017	42105	116.6	4	12.500	-0.009	42251	102.0
Aroclor-1260	5	12.247	-0.010	17812	120.5	NS	---			----
	Total Col1Ave (5 peaks):				119.6	Total Col2Ave (4 peaks):				120.5 RPD = 1
	Corrected Ave (4 peaks):				113.2	Corrected Ave (3 peaks):				104.3 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.802) = 2448020 Col1 Total PCB = 0.5 ppm*

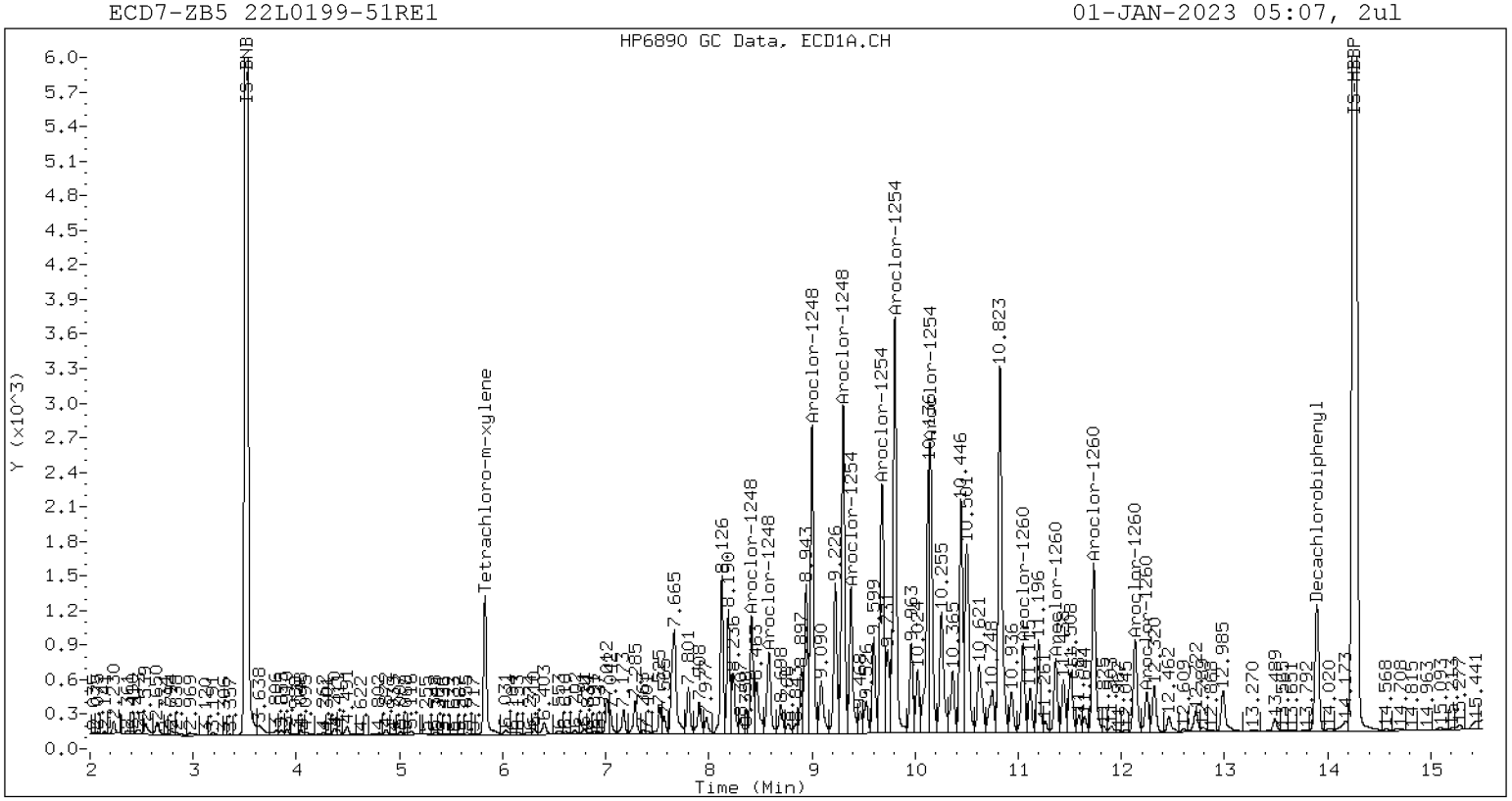
Total PCB Area Col2 (5.810 - 14.030) = 1705729 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

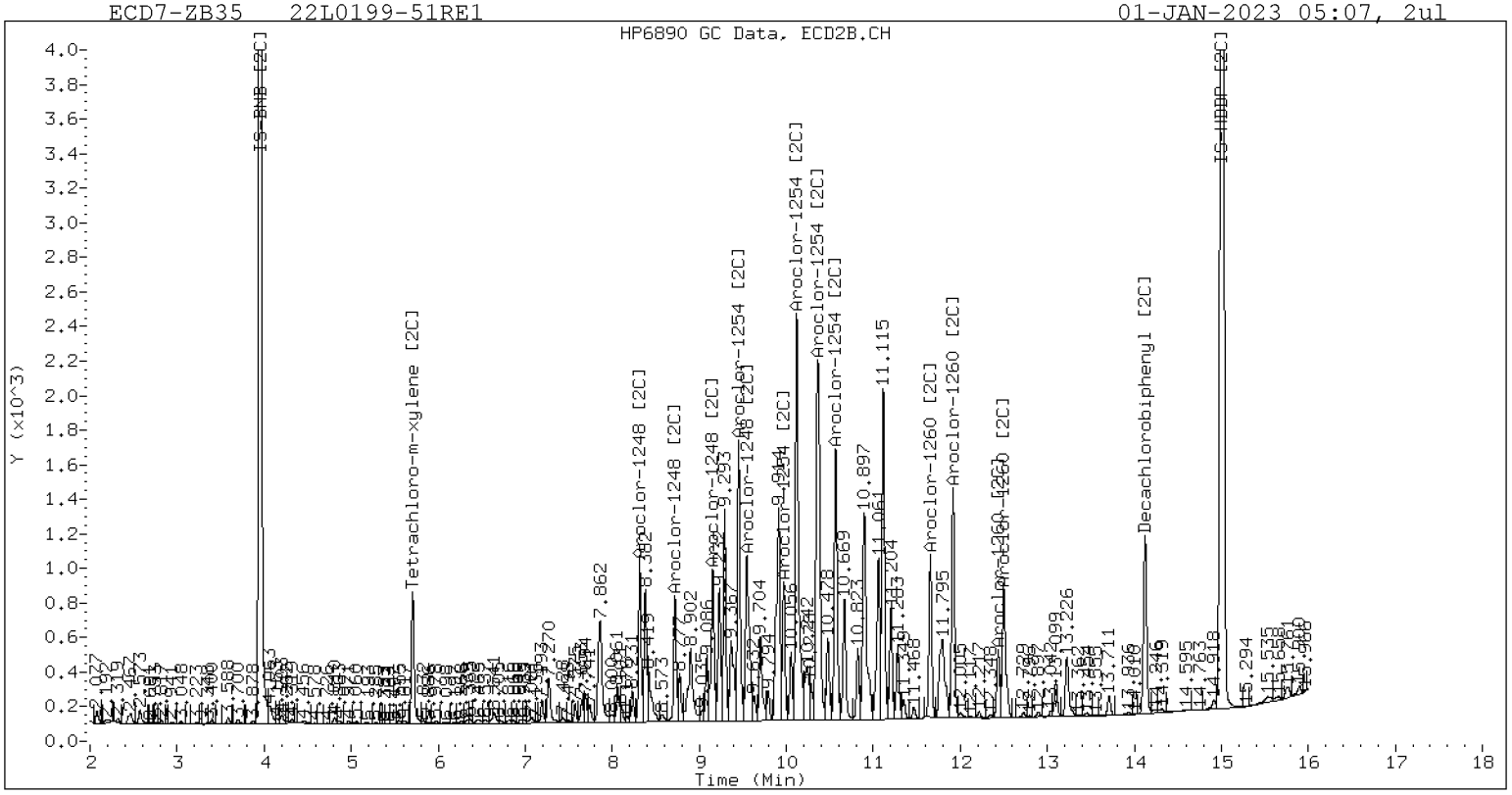
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-51RE1 01-JAN-2023 05:07, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-51RE1 01-JAN-2023 05:07, 2ul

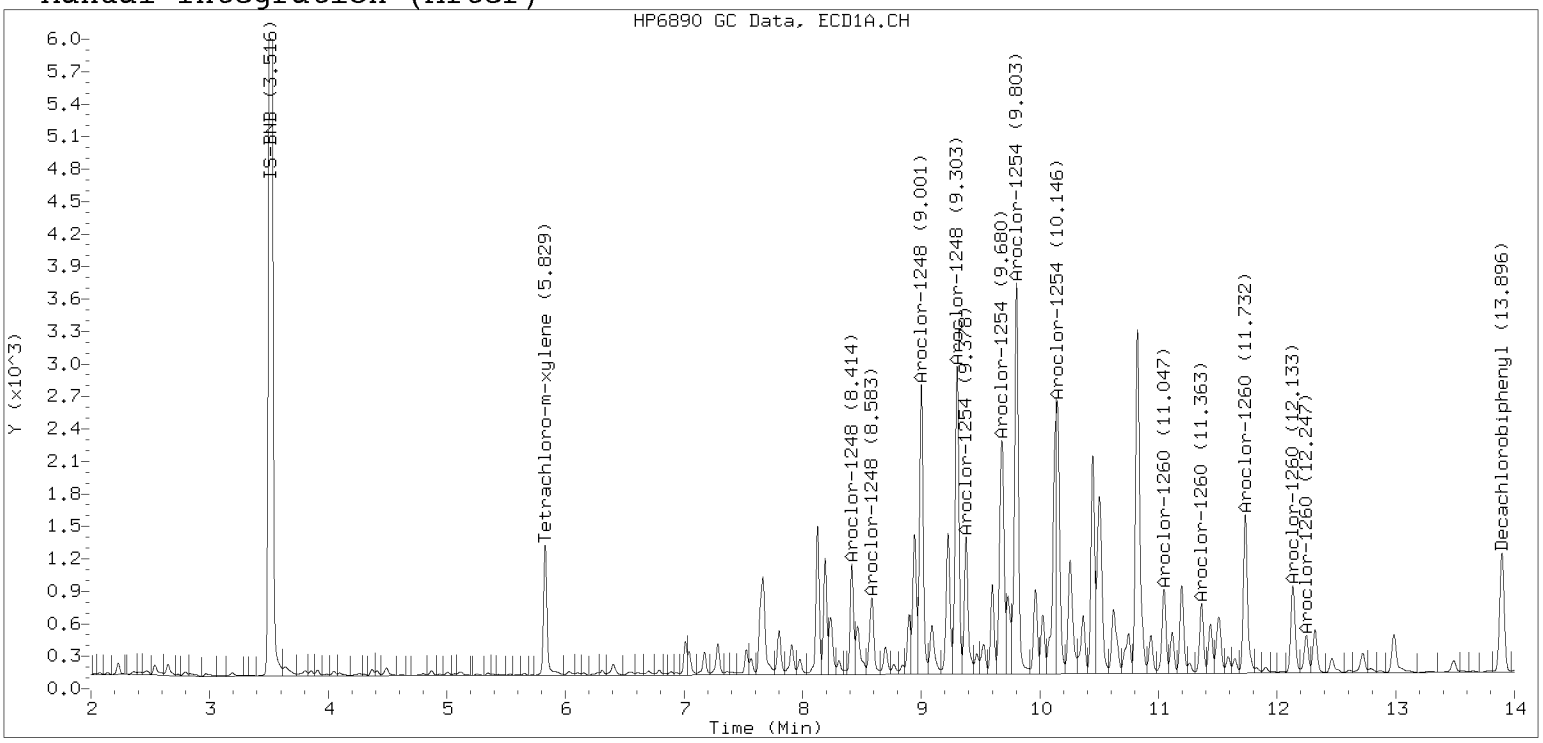


ZB-35 Manual Integration: YES

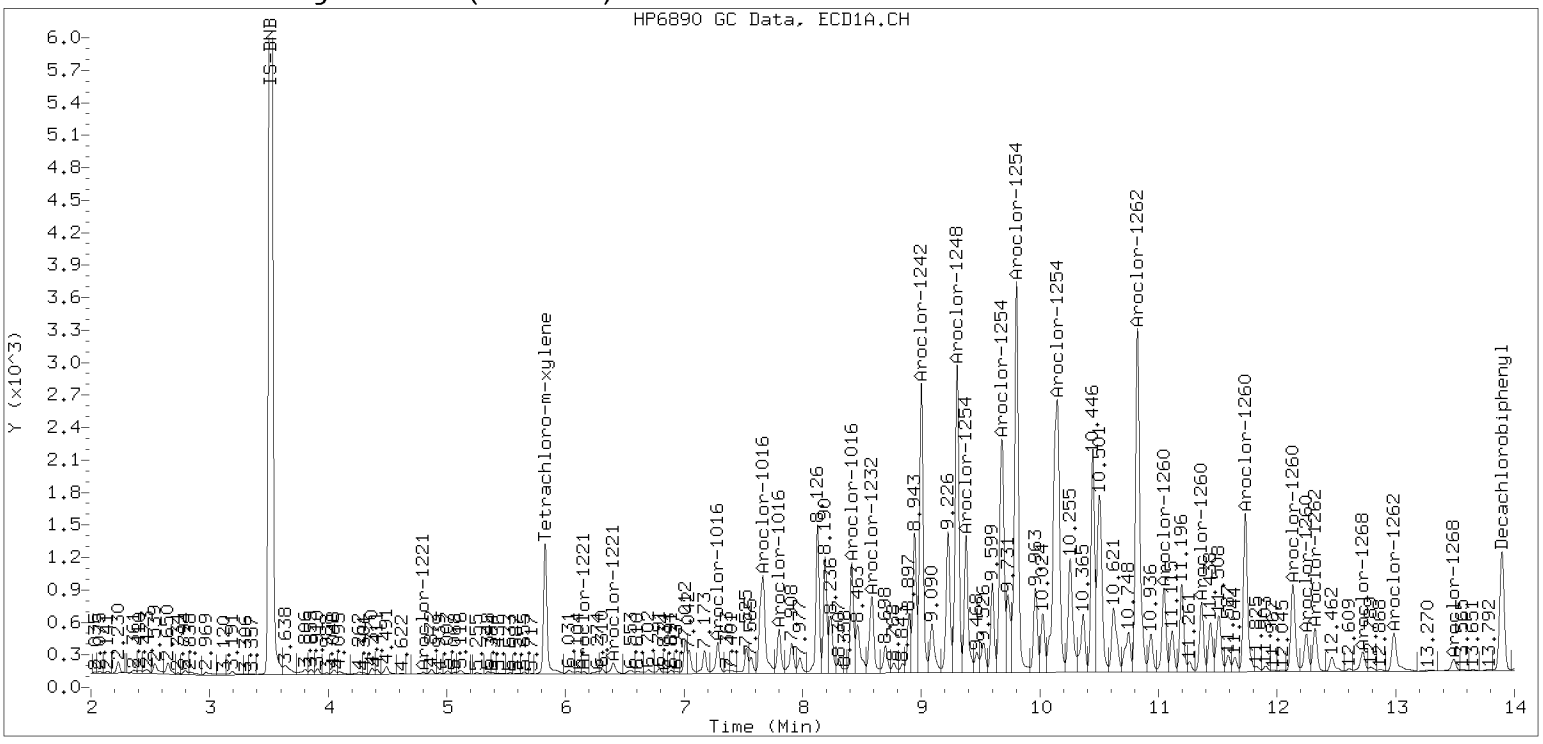
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312255ECD7.D Injection Date: 01-JAN-2023 05:07

Manual Integration (After)



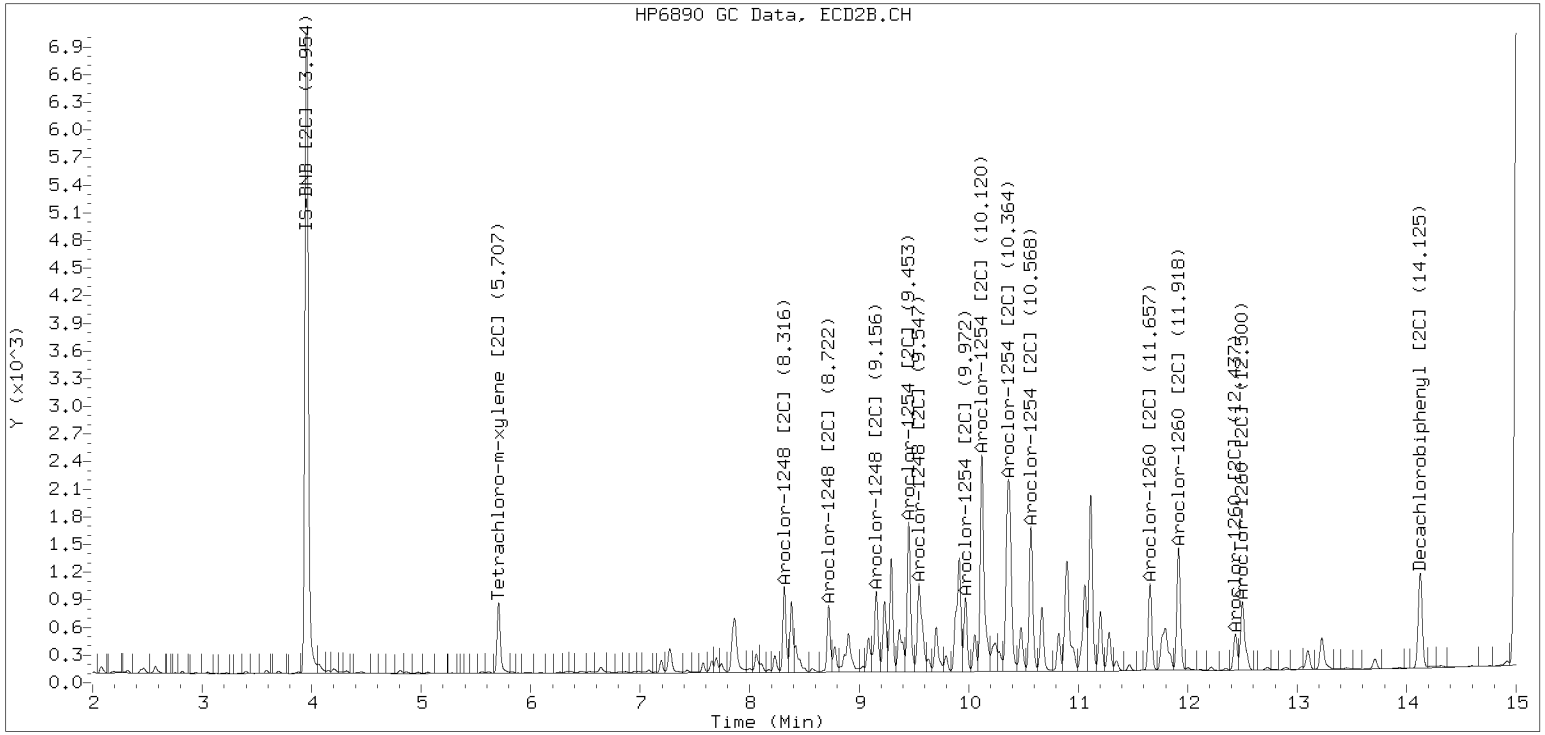
Processed Integration (Before)



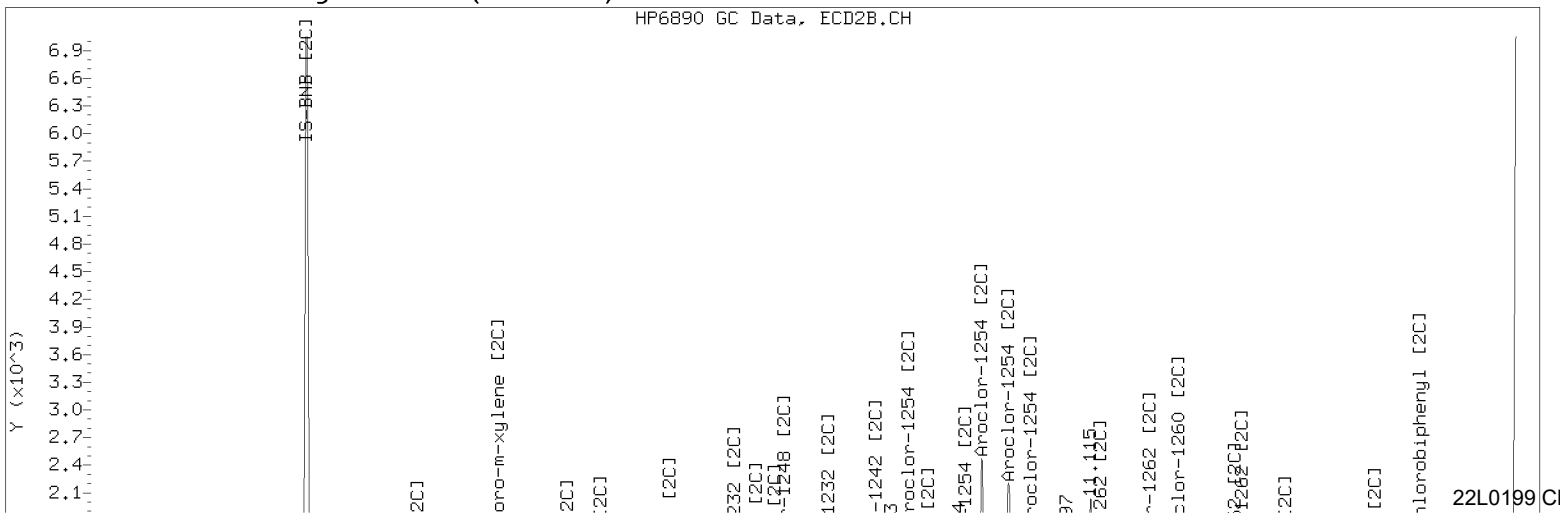
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312255ECD7.D Injection Date: 01-JAN-2023 05:07

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761D-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-52 B	File ID:	12312256ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 05:29
% Solids:	60.52	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.68 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	292	7.8	20.0	D
11097-69-1	Aroclor 1254	1	5	346	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	119	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9901*	*8.97*	*112*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9901*	*7.02*	*87.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9901*	*8.00*	*100*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9901*	*7.25*	*90.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312256ECD7.D
Data file 2: /221231.b/221231.b/12312256ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-52RE1
Client ID:
Injection Date: 01-JAN-2023 05:29
Report Date: 01/06/2023 12:25
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.002	48239	5.708	-0.002	32828	7.0	7.3	3.2	Tetrachloro-m-xylene
13.895	-0.007	58264	14.124	-0.006	52904	9.0	8.0	11.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484459	8.2
Hexabromobiphenyl	798898	707616	-11.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330096	32.5
Hexabromobiphenyl	362541	465451	28.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.414	-0.010	43060	206.7	1	8.316	-0.007	38225	283.5
Aroclor-1248	2	8.583	-0.016	38476	144.7	2	8.722	-0.007	31164	219.7
Aroclor-1248	3	9.000	-0.019	123225	257.6	3	9.156	-0.018	43529	252.3
Aroclor-1248	4	9.302	-0.010	131570	561.3	4	9.546	-0.050	43211	213.4
		Total Col1Ave (4 peaks):			292.6		Total Col2Ave (4 peaks):			242.2 RPD = 19
		Corrected Ave (3 peaks):			203.0		Corrected Ave (3 peaks):			228.5 RPD = 12
										251.83
Aroclor-1254	1	9.302	-0.012	131570	308.4	1	9.453	-0.008	73178	343.8
Aroclor-1254	2	9.378	-0.015	61456	370.5	2	9.971	-0.008	34786	203.3
Aroclor-1254	3	9.678	-0.007	113377	420.8	3	10.120	-0.010	124385	338.2
Aroclor-1254	4	9.803	-0.017	175775	334.7	4	10.363	-0.015	140141	367.9
Aroclor-1254	5	10.146	-0.027	106292	295.3	5	10.567	-0.008	76354	415.6
		Total Col1Ave (5 peaks):			345.9		Total Col2Ave (5 peaks):			333.8 RPD = 4
		Corrected Ave (4 peaks):			327.2		Corrected Ave (4 peaks):			313.3 RPD = 4
Aroclor-1260	1	11.046	-0.010	34774	135.0	1	11.656	-0.007	42229	171.9
Aroclor-1260	2	11.362	-0.012	29574	111.0	2	11.918	-0.008	60282	97.8
Aroclor-1260	3	11.731	-0.015	73172	104.5	3	12.437	-0.008	17449	106.3
Aroclor-1260	4	12.132	-0.018	42373	118.9	4	12.500	-0.009	41520	101.0
Aroclor-1260	5	12.245	-0.011	16214	111.1	NS	---			----
		Total Col1Ave (5 peaks):			116.1		Total Col2Ave (4 peaks):			119.2 RPD = 3
		Corrected Ave (4 peaks):			111.4		Corrected Ave (3 peaks):			101.7 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.802) = 2488715 Col1 Total PCB = 0.5 ppm*

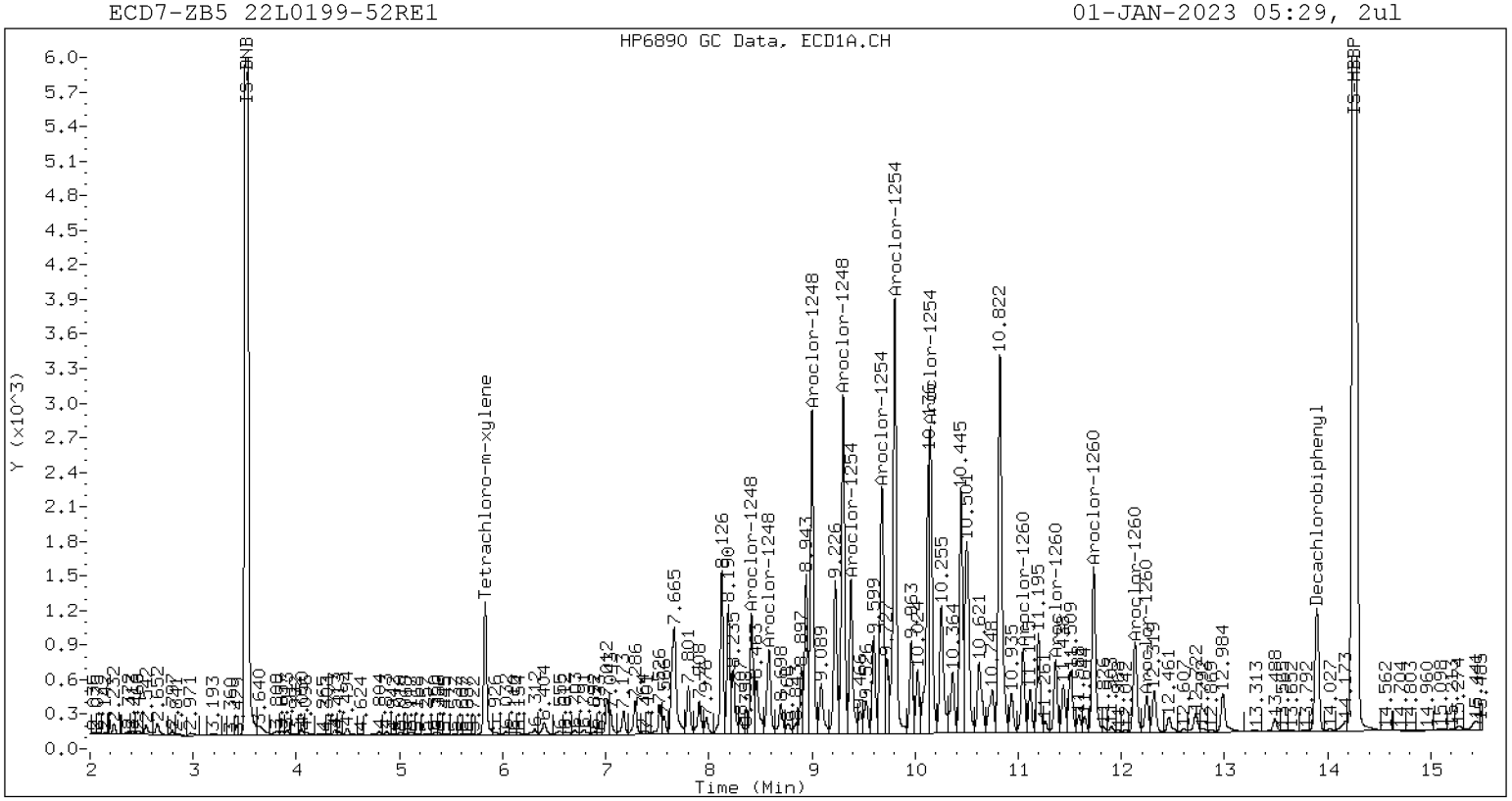
Total PCB Area Col2 (5.810 - 14.030) = 1707205 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

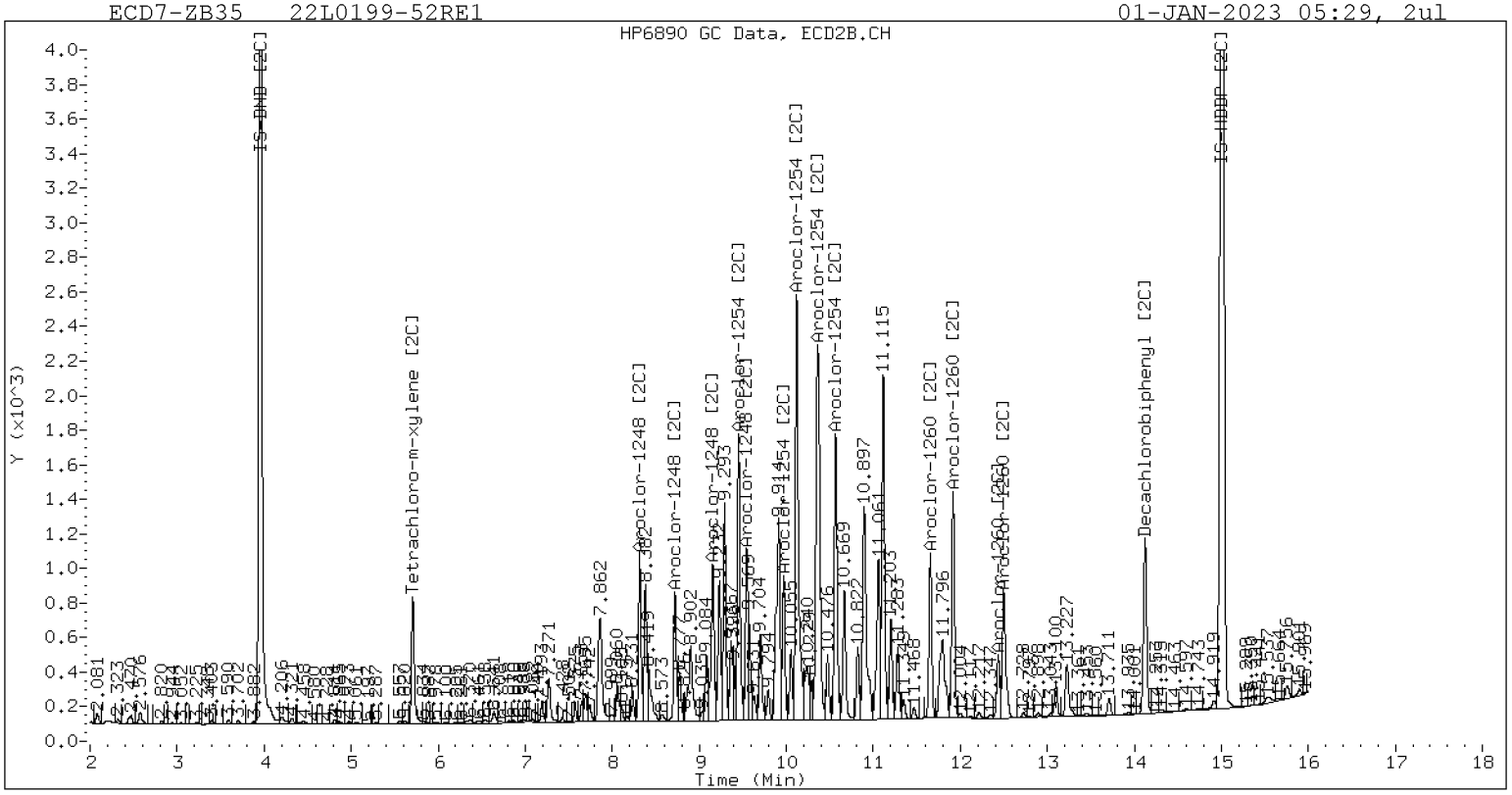
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-52RE1 01-JAN-2023 05:29, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-52RE1 01-JAN-2023 05:29, 2ul

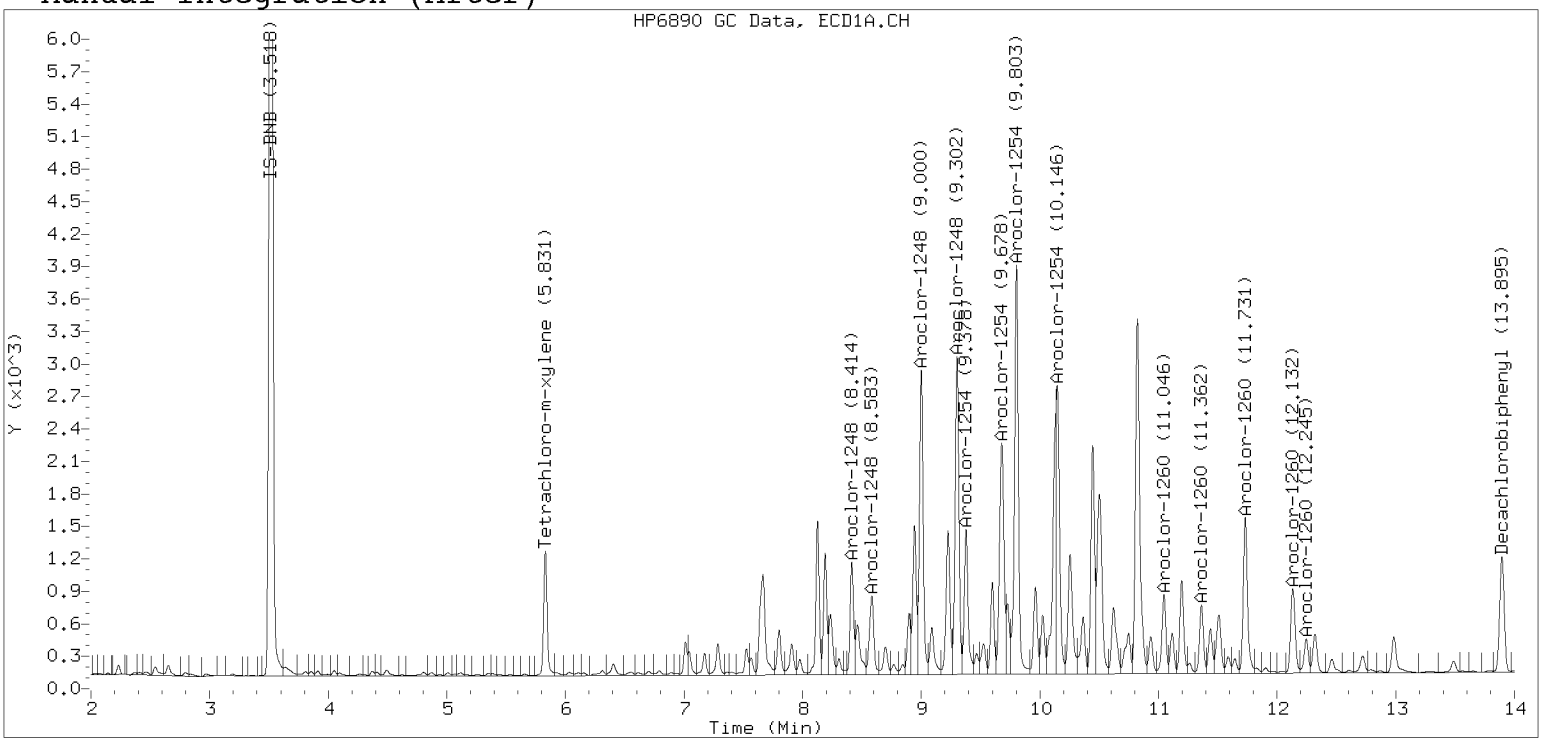


ZB-35 Manual Integration: YES

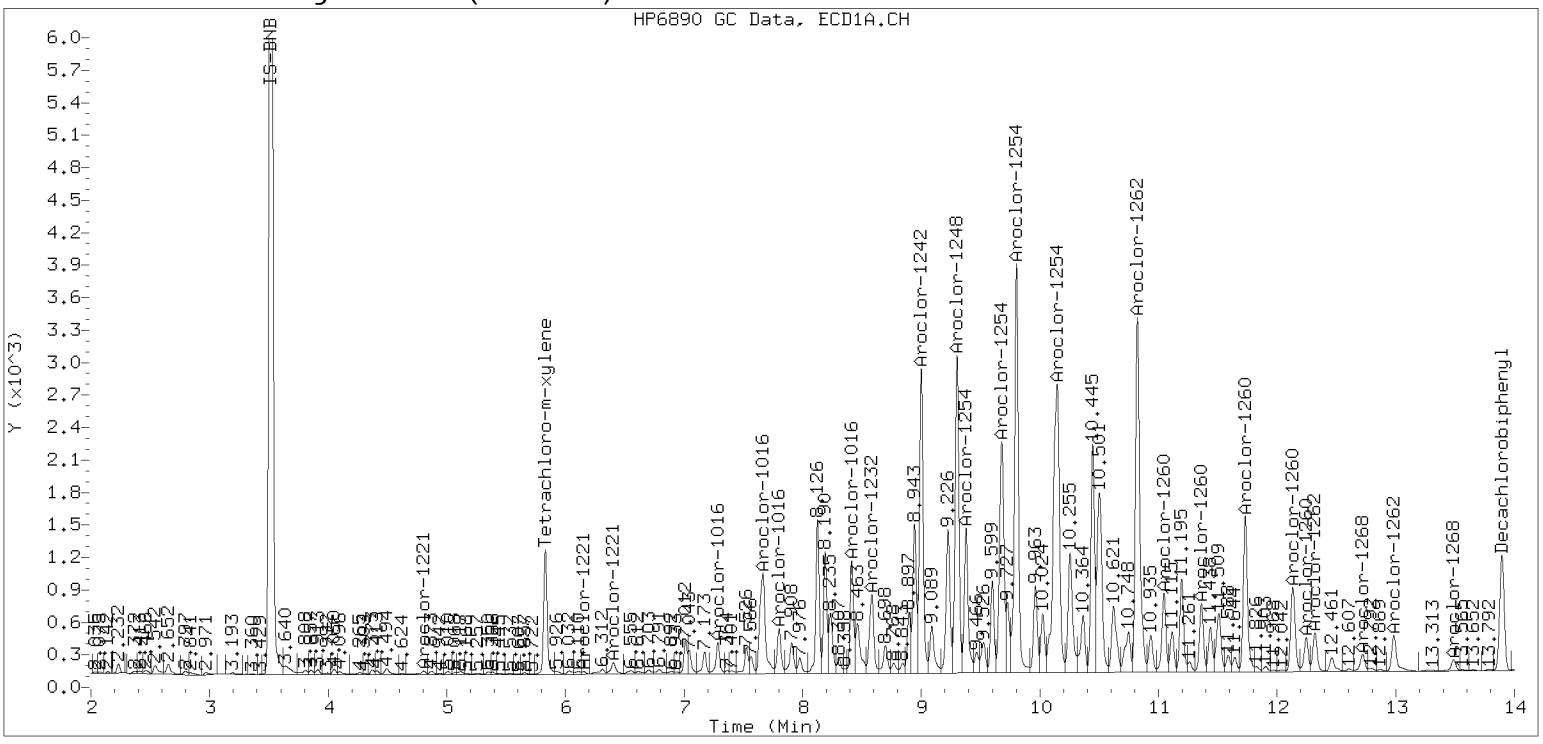
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312256ECD7.D Injection Date: 01-JAN-2023 05:29

Manual Integration (After)



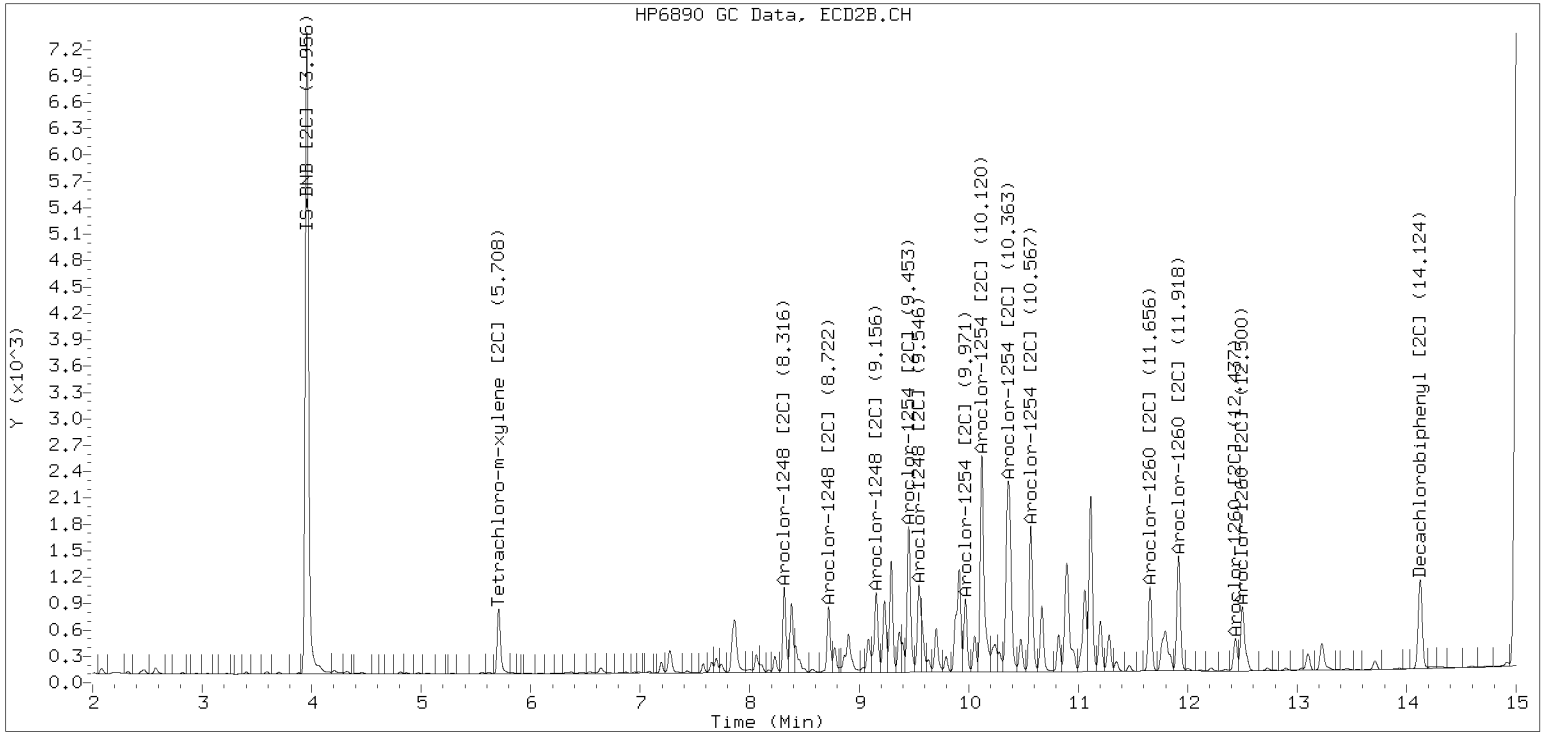
Processed Integration (Before)



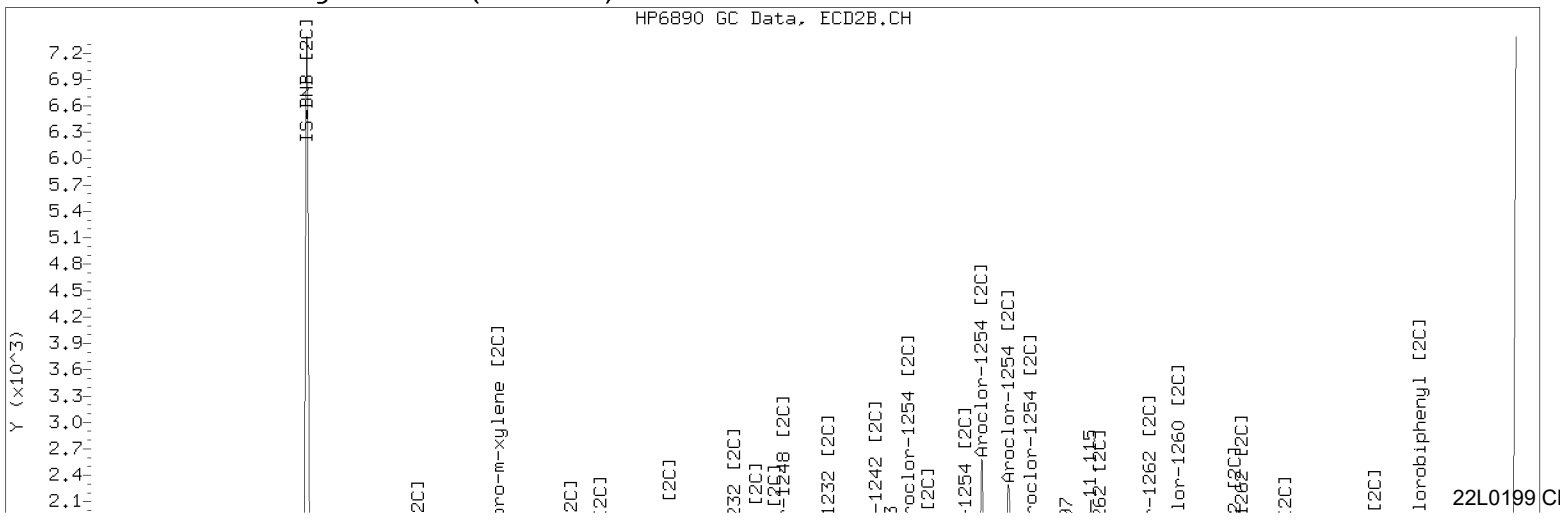
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312256ECD7.D Injection Date: 01-JAN-2023 05:29

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-53 B	File ID:	12272231ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 03:12
% Solids:	76.89	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.26 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	16.1	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	32.2	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	16.5	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9985*	*9.12*	*114*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9985*	*6.80*	*85.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9985*	*8.88*	*111*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9985*	*7.35*	*91.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272231ECD7.D
Data file 2: /221227.b/221227.b/12272231ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-53
Client ID:
Injection Date: 28-DEC-2022 03:12
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	214726	5.706	-0.003	145041	34.0	36.7	7.8	Tetrachloro-m-xylene
13.896	-0.007	221000	14.124	-0.005	218919	45.6	44.4	2.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	445832	-0.4
Hexabromobiphenyl	798898	528452	-33.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	287924	15.6
Hexabromobiphenyl	362541	347405	-4.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.413	-0.015	16589	86.5	1	8.314	-0.007	14602	124.1
Aroclor-1248	2	8.581	-0.023	13219	54.0	2	8.719	-0.008	9946	80.4
Aroclor-1248	3	8.999	-0.023	44222	100.4	3	9.153	-0.019	14817	98.5
Aroclor-1248	4	9.301	-0.011	51573	239.1	4	9.631	0.038	2506	14.2
		Total Col1Ave (4 peaks):			120.0		Total Col2Ave (4 peaks):			79.3 RPD = 41*
		Corrected Ave (3 peaks):			80.3		Corrected Ave (3 peaks):			64.3 RPD = 22
Aroclor-1254	1	9.301	-0.020	51573	131.4	1	9.451	-0.010	29179	157.2
Aroclor-1254	2	9.375	-0.027	22802	149.4	2	9.969	-0.009	14937	100.1
Aroclor-1254	3	9.668	-0.026	29729	119.9	3	10.117	-0.013	48716	151.9
Aroclor-1254	4	9.801	-0.030	69348	143.5	4	10.364	-0.015	61269	184.4
Aroclor-1254	5	10.136	-0.054	80351	242.5	5	10.566	-0.009	33956	211.9
		Total Col1Ave (5 peaks):			157.3		Total Col2Ave (5 peaks):			161.1 RPD = 2
		Corrected Ave (4 peaks):			136.0		Corrected Ave (4 peaks):			148.4 RPD = 9
Aroclor-1260	1	11.046	-0.009	18989	98.7	1	11.656	-0.008	20044	109.3
Aroclor-1260	2	11.362	-0.010	14833	74.6	2	11.916	-0.010	29660	64.5
Aroclor-1260	3	11.731	-0.012	39005	74.6	3	12.435	-0.009	10392	84.8
Aroclor-1260	4	12.133	-0.017	21340	80.2	4	12.499	-0.010	21776	71.0
Aroclor-1260	5	12.247	-0.009	10142	93.1	NS	---			----
		Total Col1Ave (5 peaks):			84.2		Total Col2Ave (4 peaks):			82.4 RPD = 2
		Corrected Ave (4 peaks):			80.6		Corrected Ave (3 peaks):			73.4 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 1074685 Col1 Total PCB = 0.3 ppm*

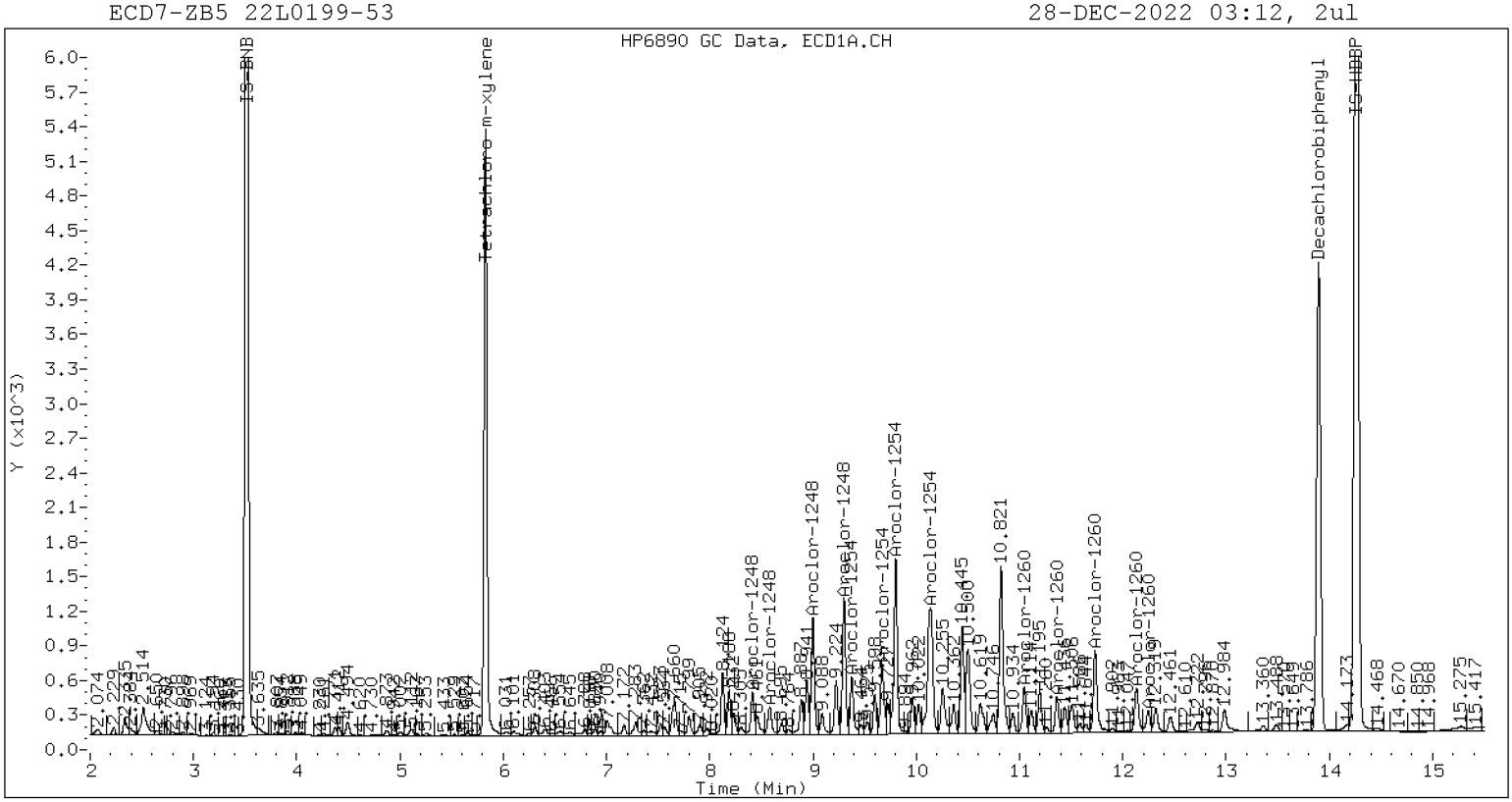
Total PCB Area Col2 (5.809 - 14.028) = 735340 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

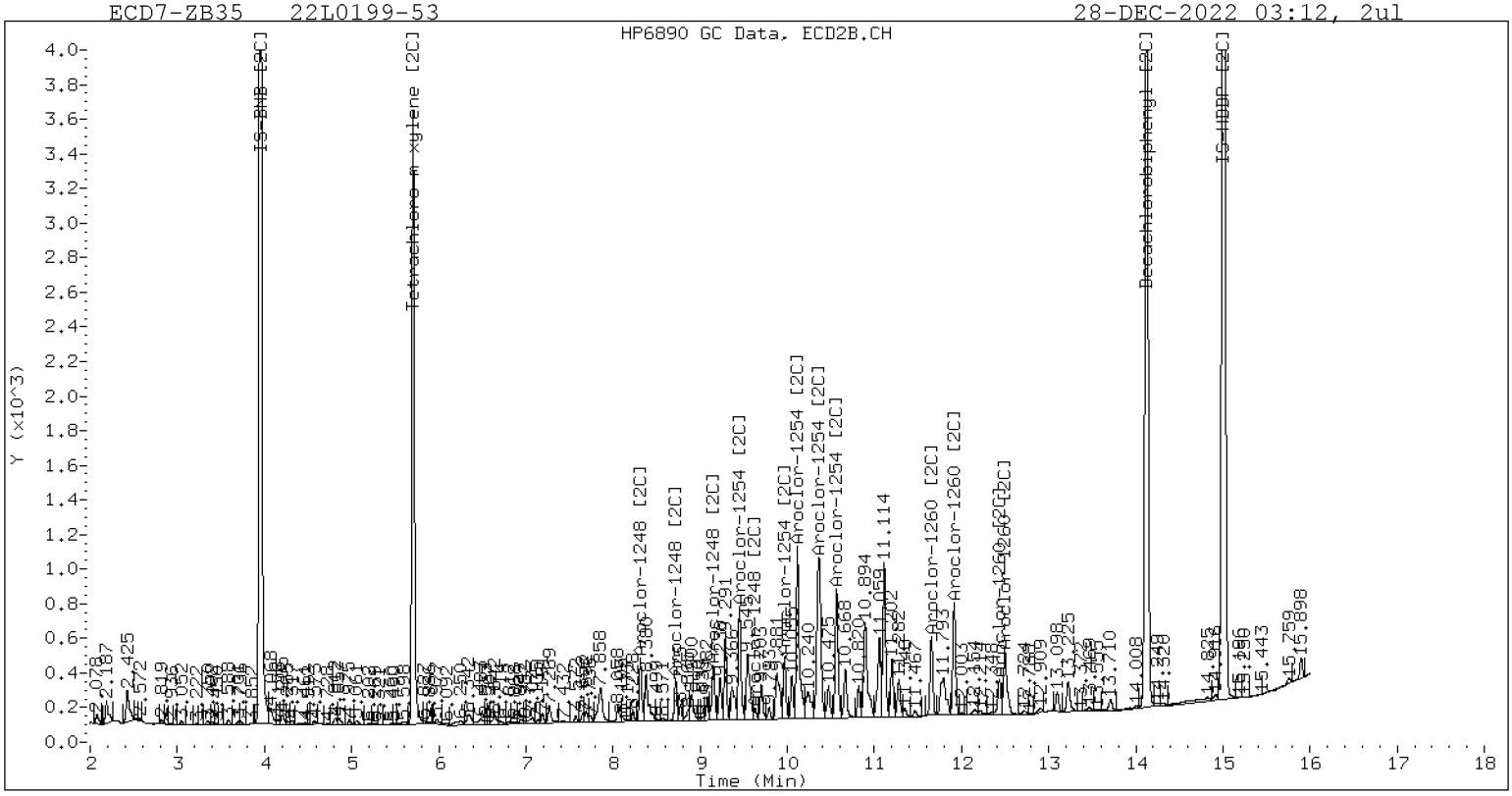
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-53 28-DEC-2022 03:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-53 28-DEC-2022 03:12, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-54 B	File ID:	12312257ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 05:50
% Solids:	65.33	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.16 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	39.9	15.6	39.9	U
11104-28-2	Aroclor 1221	1	10	39.9	15.6	39.9	U
11141-16-5	Aroclor 1232	1	10	39.9	15.6	39.9	U
53469-21-9	Aroclor 1242	1	10	39.9	15.6	39.9	U
12672-29-6	Aroclor 1248	1	10	437	15.6	39.9	D
11097-69-1	Aroclor 1254	2	10	574	15.6	39.9	D
11096-82-5	Aroclor 1260	2	10	203	5.9	39.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9890*	*10.8*	*135*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9890*	*8.81*	*110*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9890*	*9.18*	*115*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9890*	*8.59*	*107*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312257ECD7.D
Data file 2: /221231.b/221231.b/12312257ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-54RE1
Client ID:
Injection Date: 01-JAN-2023 05:50
Report Date: 01/06/2023 12:25
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.004	31838	5.707	-0.003	20247	4.4	4.3	2.6	Tetrachloro-m-xylene
13.896	-0.006	39548	14.124	-0.006	32973	5.4	4.6	16.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	509283	13.8
Hexabromobiphenyl	798898	796160	-0.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	343609	37.9
Hexabromobiphenyl	362541	505544	39.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.415	-0.010	29121	133.0	1	8.316	-0.007	25029	178.3
Aroclor-1248	2	8.585	-0.014	25220	90.2	2	8.722	-0.006	18907	128.1
Aroclor-1248	3	9.002	-0.017	96192	191.3	3	9.158	-0.016	30135	167.8
Aroclor-1248	4	9.303	-0.009	113680	461.4	4	9.547	-0.048	34614	164.2
		Total Col1Ave (4 peaks):			219.0		Total Col2Ave (4 peaks):			159.6 RPD = 31
		Corrected Ave (3 peaks):			138.2		Corrected Ave (3 peaks):			153.4 RPD = 10
Aroclor-1254	1	9.303	-0.010	113680	253.5	1	9.454	-0.007	62089	280.3
Aroclor-1254	2	9.379	-0.014	51051	292.7	2	9.972	-0.007	33962	190.7
Aroclor-1254	3	9.671	-0.014	62263	219.8	3	10.121	-0.009	109764	286.7
Aroclor-1254	4	9.805	-0.015	152707	276.6	4	10.366	-0.013	124540	314.1
Aroclor-1254	5	10.151	-0.022	95994	253.7	5	10.569	-0.007	69970	365.9
		Total Col1Ave (5 peaks):			259.3		Total Col2Ave (5 peaks):			287.5 RPD = 10
		Corrected Ave (4 peaks):			250.9		Corrected Ave (4 peaks):			267.9 RPD = 7
Aroclor-1260	1	11.047	-0.010	31668	109.3	1	11.657	-0.006	41115	154.1
Aroclor-1260	2	11.364	-0.010	28214	94.1	2	11.919	-0.007	55903	83.5
Aroclor-1260	3	11.734	-0.013	68850	87.4	3	12.437	-0.008	15225	85.4
Aroclor-1260	4	12.134	-0.016	39976	99.7	4	12.501	-0.008	37517	84.0
Aroclor-1260	5	12.248	-0.008	14207	86.5	NS	---			----
		Total Col1Ave (5 peaks):			95.4		Total Col2Ave (4 peaks):			101.7 RPD = 6
		Corrected Ave (4 peaks):			91.9		Corrected Ave (3 peaks):			84.3 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.802) = 2036798 Col1 Total PCB = 0.4 ppm*

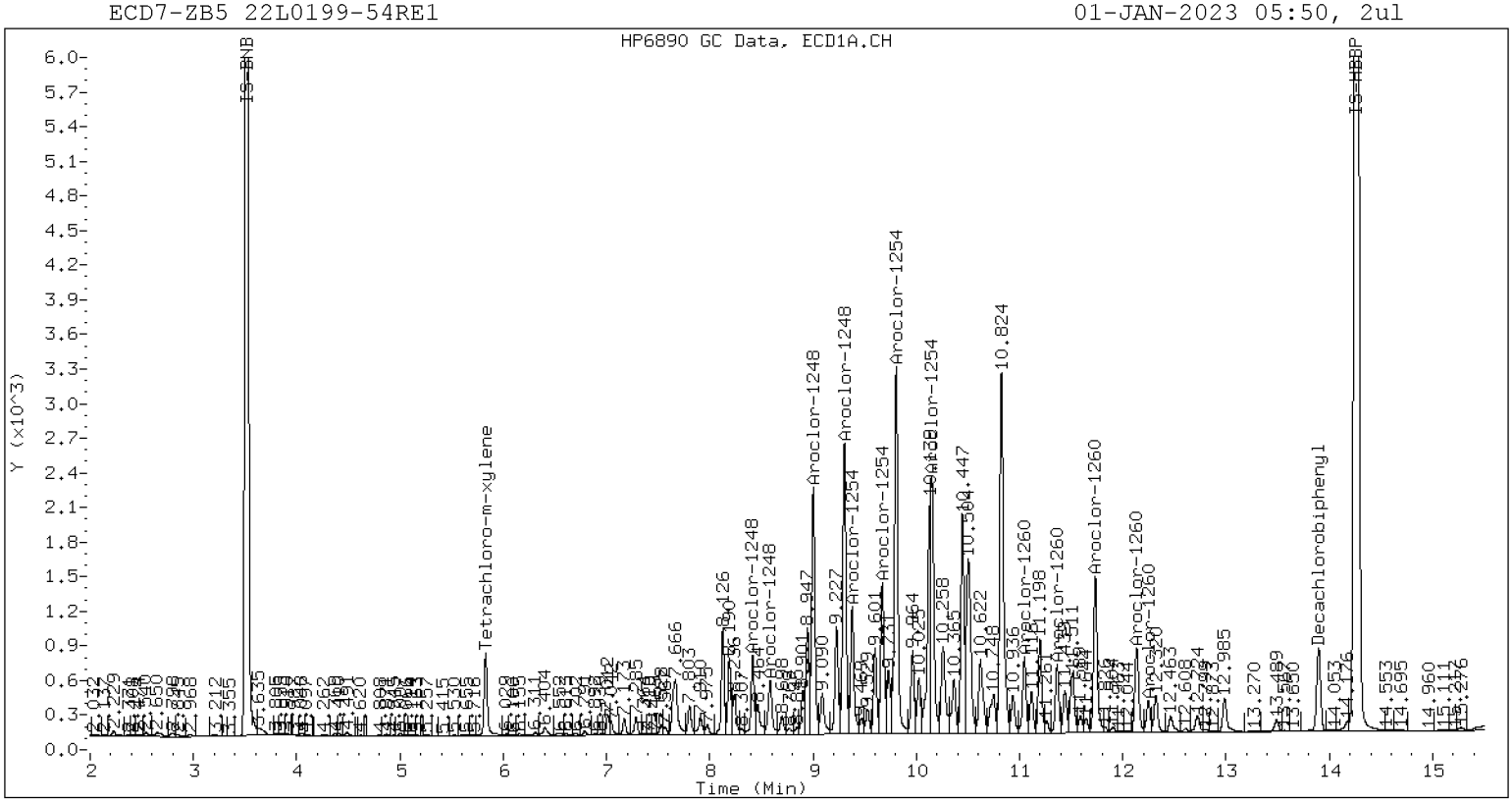
Total PCB Area Col2 (5.810 - 14.030) = 1382313 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

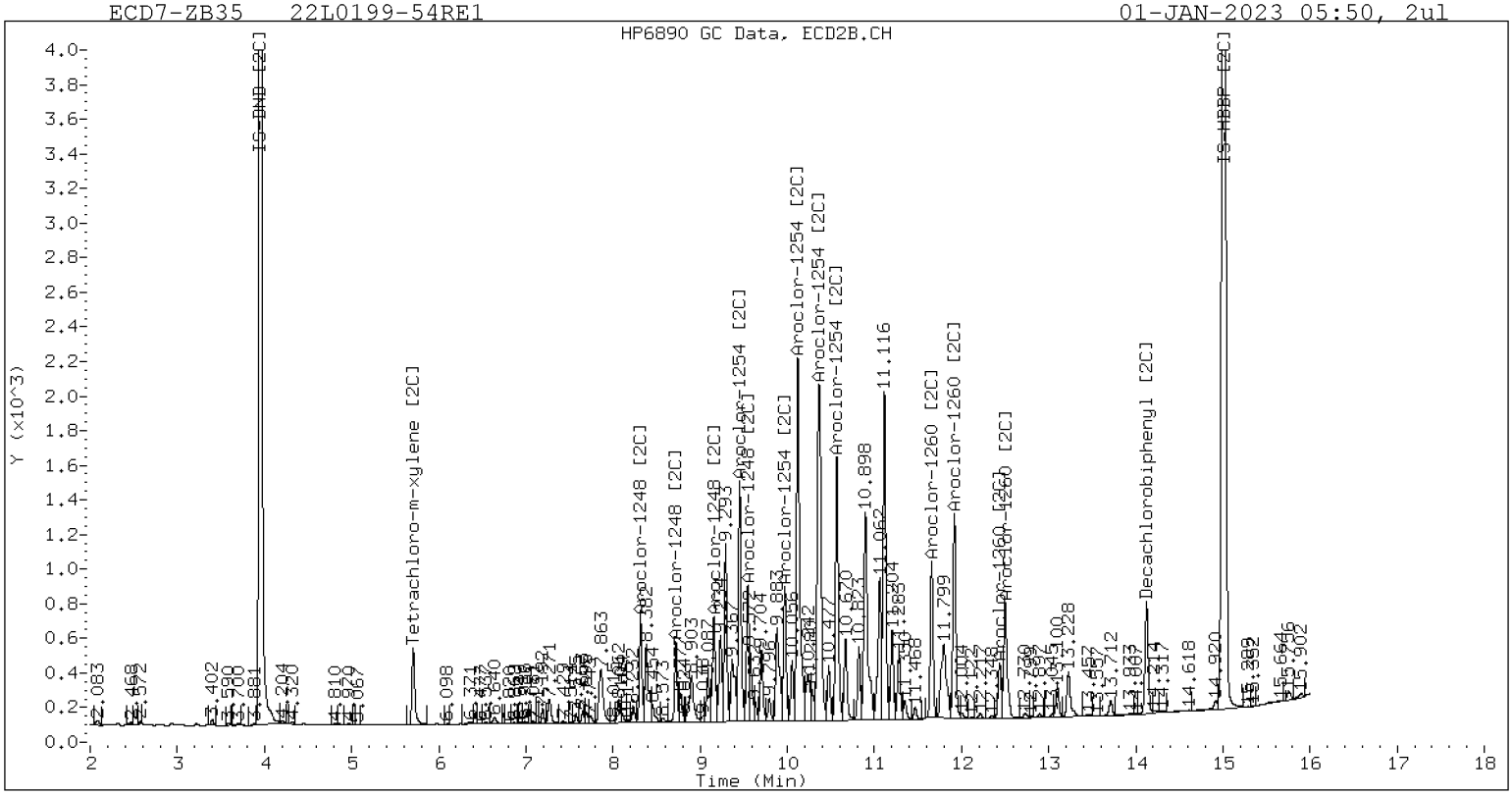
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-54RE1 01-JAN-2023 05:50, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-54RE1 01-JAN-2023 05:50, 2ul

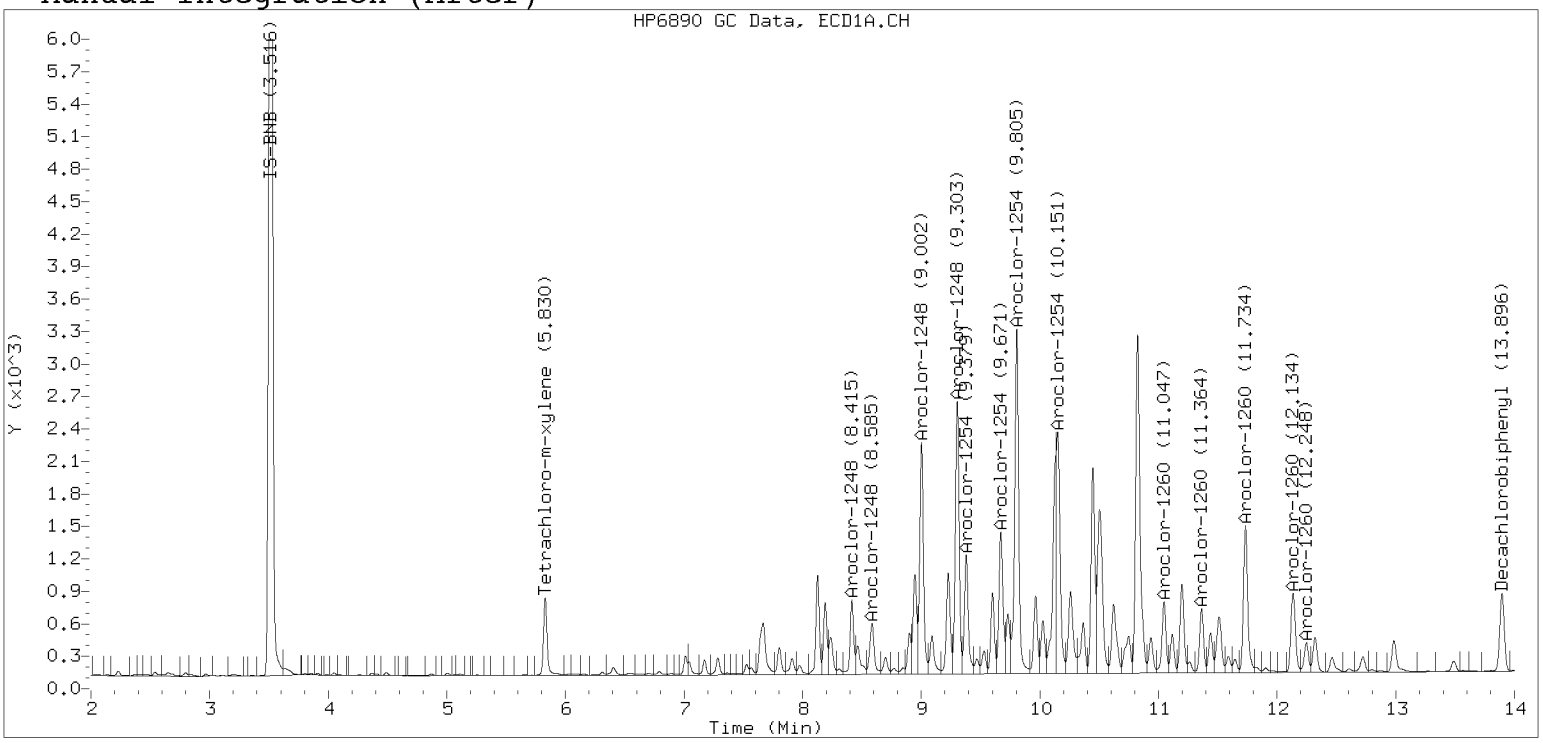


ZB-35 Manual Integration: YES

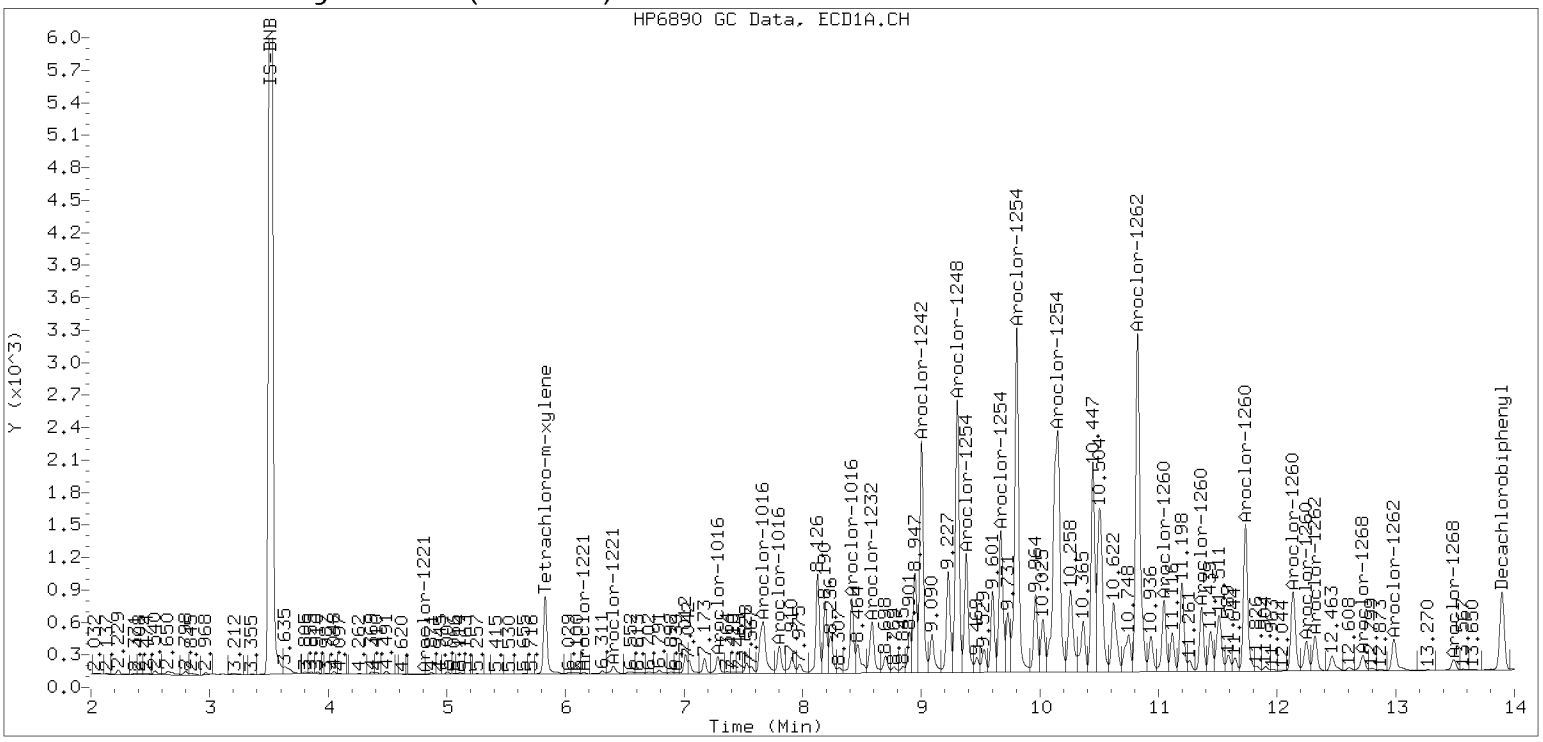
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312257ECD7.D Injection Date: 01-JAN-2023 05:50

Manual Integration (After)



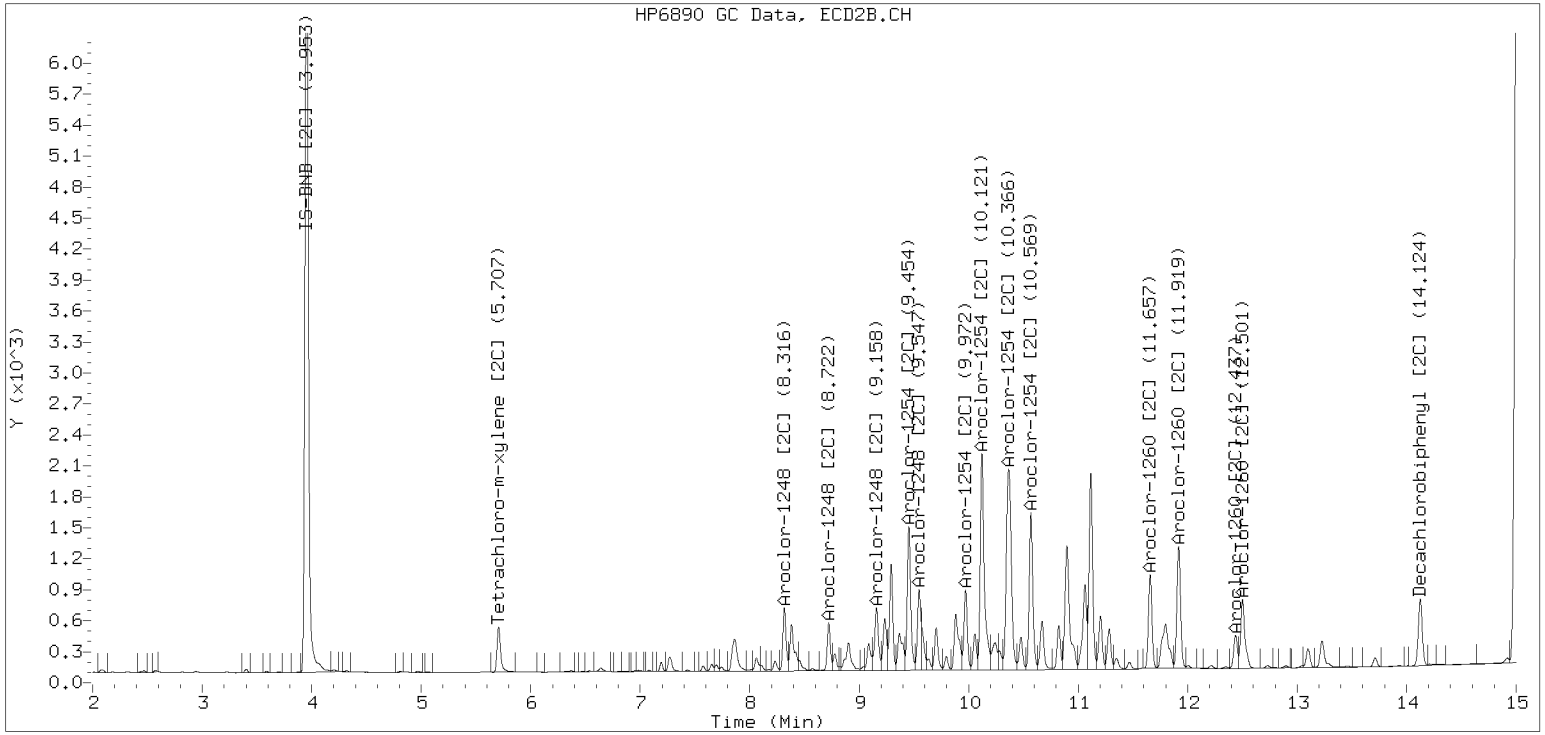
Processed Integration (Before)



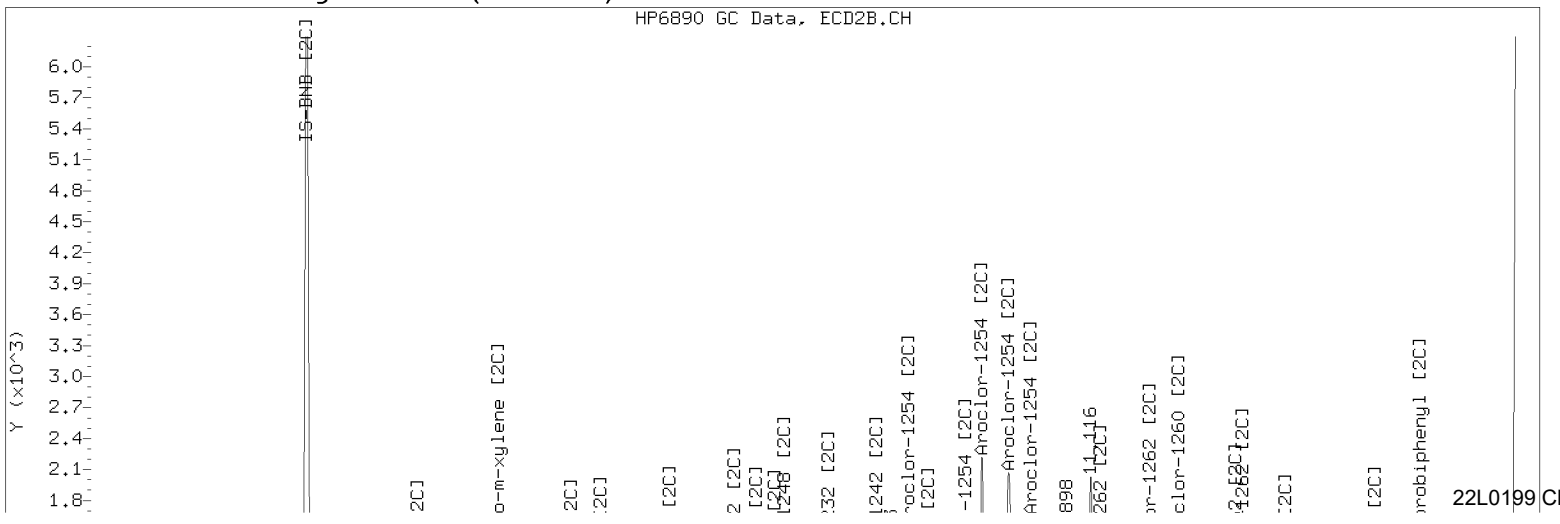
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312257ECD7.D Injection Date: 01-JAN-2023 05:50

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-55 B	File ID:	12272233ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 03:55
% Solids:	69.14	Preparation:	EPA 3546 (Microwave)	Initial/Final:	18.1 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	14.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	20.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	41.3	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9908*	*9.31*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9908*	*6.37*	*79.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9908*	*8.91*	*111*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9908*	*7.29*	*91.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272233ECD7.D
Data file 2: /221227.b/221227.b/12272233ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-55
Client ID:
Injection Date: 28-DEC-2022 03:55
Report Date: 01/03/2023 14:57
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.005	201654	5.703	-0.005	142476	31.9	36.5	13.4	Tetrachloro-m-xylene
13.896	-0.007	200410	14.124	-0.004	208632	46.6	44.6	4.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	446279	-0.3
Hexabromobiphenyl	798898	469276	-41.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	284958	14.4
Hexabromobiphenyl	362541	329488	-9.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.411	-0.012	9210	48.0	1	8.313	-0.009	8423	72.4
Aroclor-1248	2	8.579	-0.019	7798	31.8	2	8.719	-0.008	7277	59.4
Aroclor-1248	3	8.998	-0.018	25947	58.9	3	9.152	-0.021	8545	57.4
Aroclor-1248	4	9.299	-0.011	32674	151.3	4	9.544	-0.049	13343	76.3
		Total Col1Ave (4 peaks):			72.5		Total Col2Ave (4 peaks):			66.4 RPD = 9
		Corrected Ave (3 peaks):			46.2		Corrected Ave (3 peaks):			63.1 RPD = 31
Aroclor-1254	1	9.299	-0.015	32674	83.2	1	9.451	-0.010	20191	109.9
Aroclor-1254	2	9.374	-0.018	13640	89.3	2	9.969	-0.010	10279	69.6
Aroclor-1254	3	9.667	-0.018	18635	75.1	3	10.116	-0.014	25179	79.3
Aroclor-1254	4	9.799	-0.021	42616	88.1	4	10.370	-0.009	48309	146.9
Aroclor-1254	5	10.125	-0.050	60236	181.6	5	10.566	-0.010	41201	259.8
		Total Col1Ave (5 peaks):			103.4		Total Col2Ave (5 peaks):			133.1 RPD = 25
		Corrected Ave (4 peaks):			83.9		Corrected Ave (4 peaks):			101.4 RPD = 19
Aroclor-1260	1	11.044	-0.011	41392	242.3	1	11.655	-0.008	32100	184.6
Aroclor-1260	2	11.360	-0.012	32719	185.2	2	11.915	-0.011	82292	188.6
Aroclor-1260	3	11.730	-0.016	95057	204.8	3	12.435	-0.010	30403	261.6
Aroclor-1260	4	12.131	-0.019	42525	179.9	4	12.499	-0.010	56107	192.9
Aroclor-1260	5	12.245	-0.010	28189	291.3	NS	---			----
		Total Col1Ave (5 peaks):			220.7		Total Col2Ave (4 peaks):			206.9 RPD = 6
		Corrected Ave (4 peaks):			203.0		Corrected Ave (3 peaks):			188.7 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.802) = 1129425 Col1 Total PCB = 0.3 ppm*

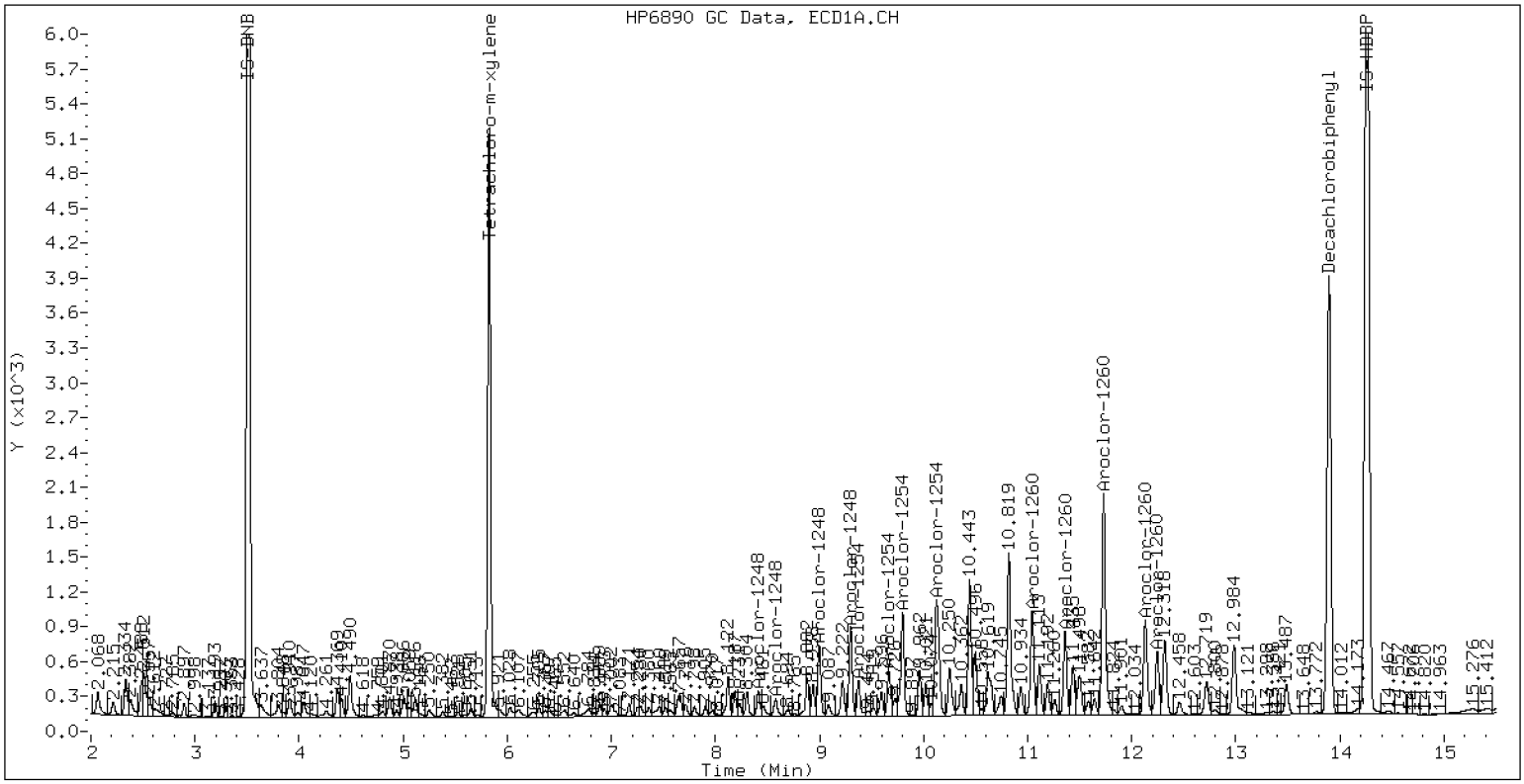
Total PCB Area Col2 (5.809 - 14.028) = 871386 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

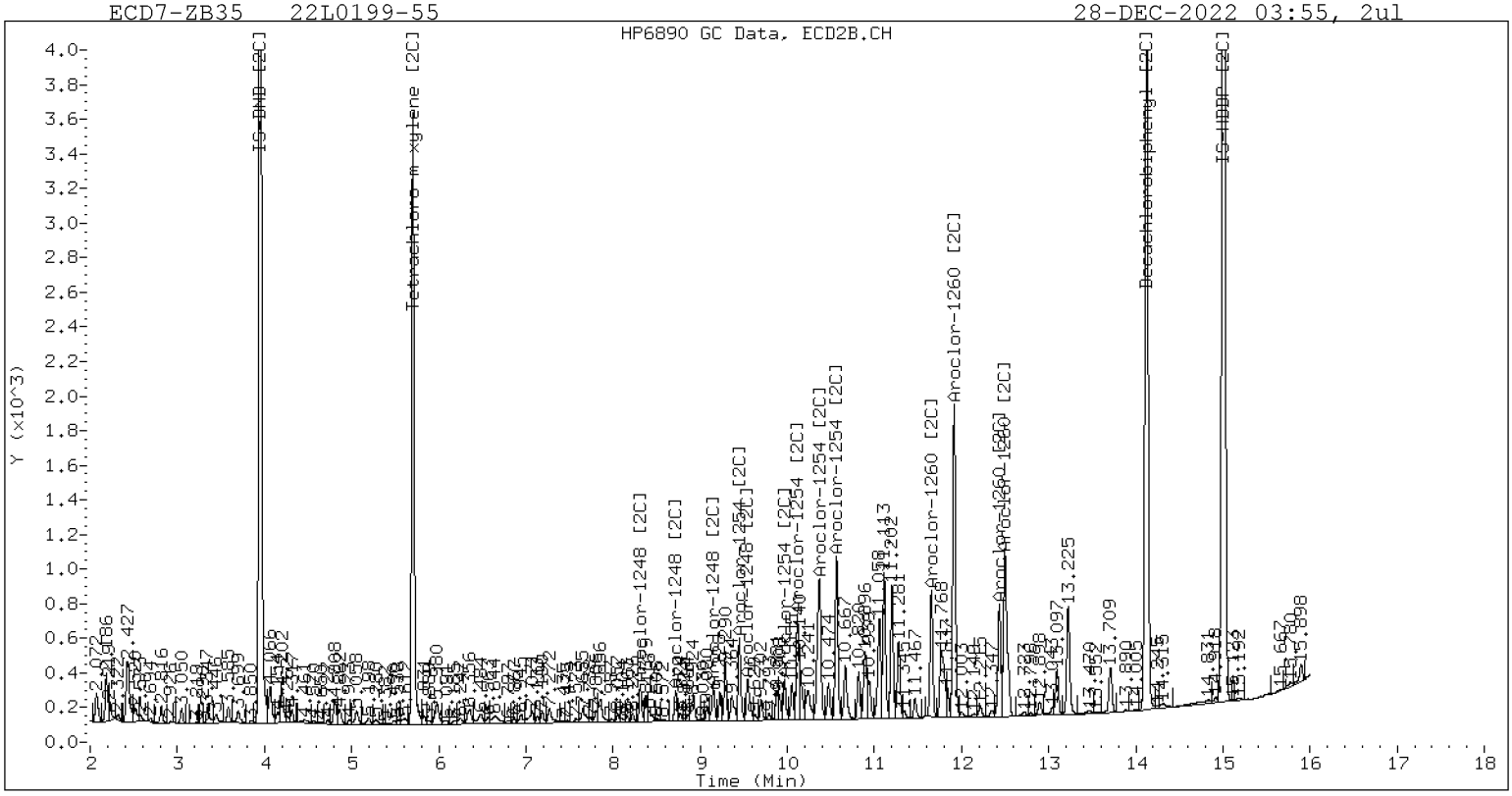
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-55 28-DEC-2022 03:55, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-55 28-DEC-2022 03:55, 2ul

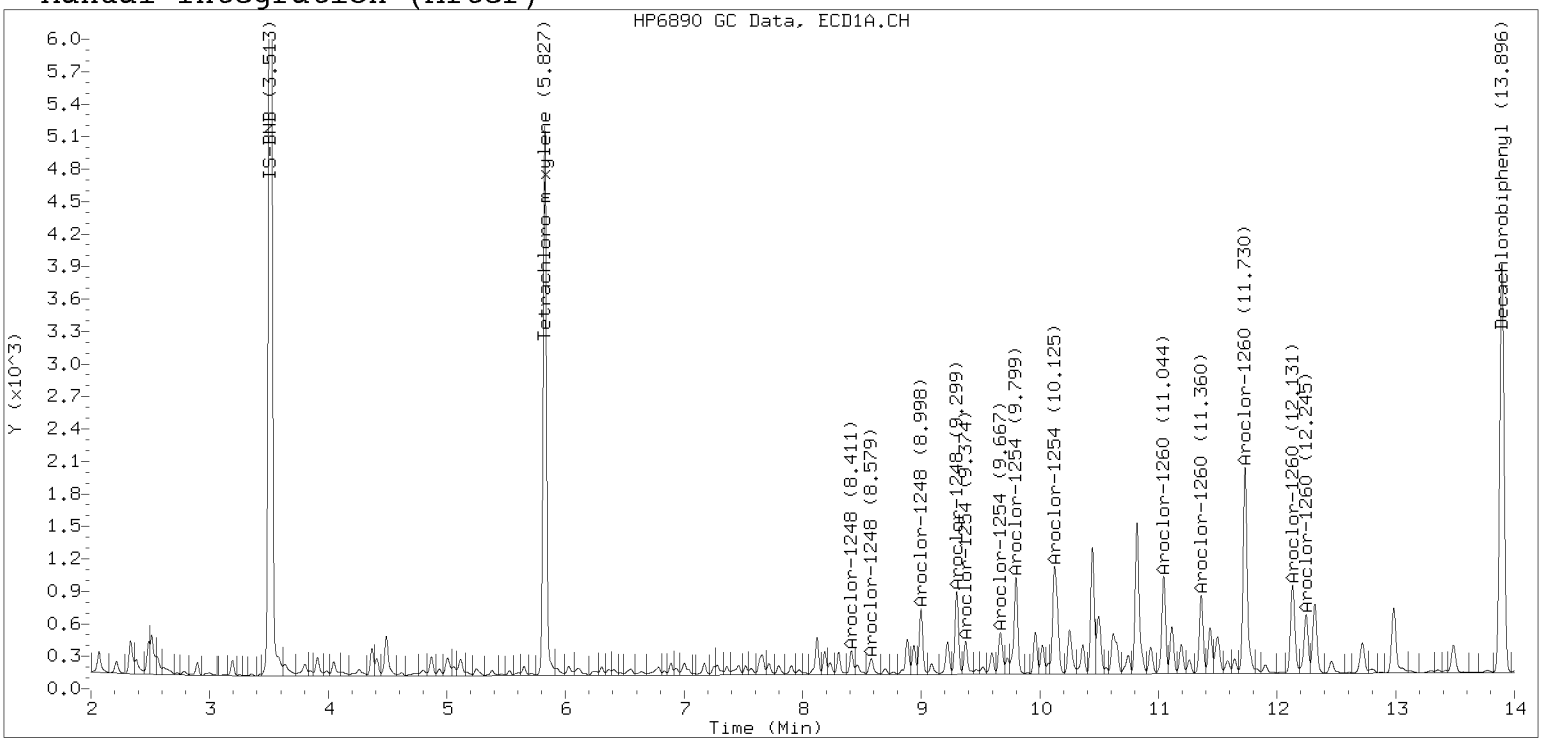


ZB-35 Manual Integration: YES

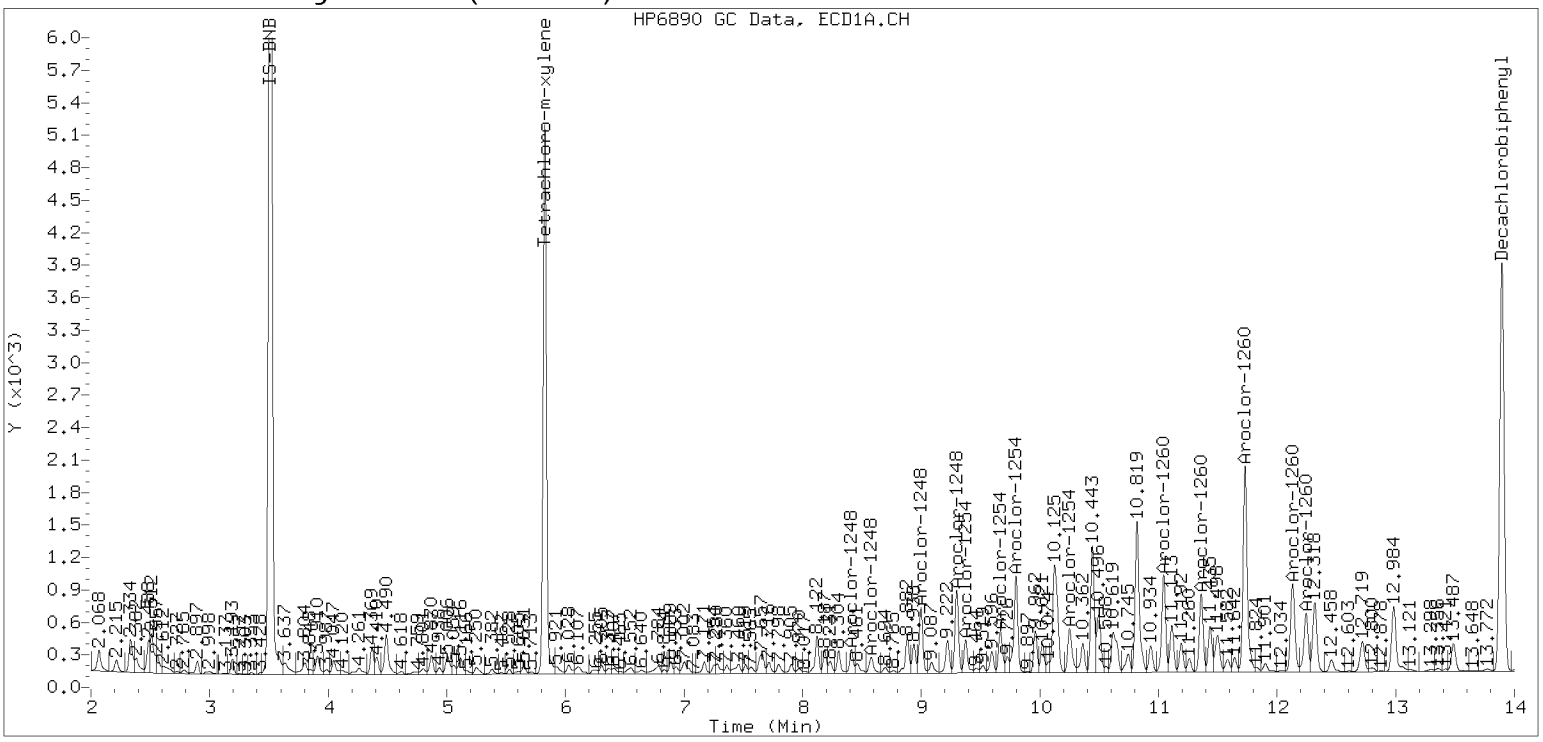
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221227.b/12272233ECD7.D Injection Date: 28-DEC-2022 03:55

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-56 B	File ID:	12272234ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 04:16
% Solids:	64.92	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.28 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9894*	*8.53*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9894*	*6.10*	*76.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272234ECD7.D
Data file 2: /221227.b/221227.b/12272234ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-56
Client ID:
Injection Date: 28-DEC-2022 04:16
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	179205	5.703	-0.006	125662	30.5	34.2	11.2	Tetrachloro-m-xylene
13.896	-0.008	167640	14.125	-0.004	176110	42.7	39.8	7.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	414150	-7.5
Hexabromobiphenyl	798898	428344	-46.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268321	7.7
Hexabromobiphenyl	362541	311556	-14.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 142743 Col1 Total PCB = 0.0 ppm*

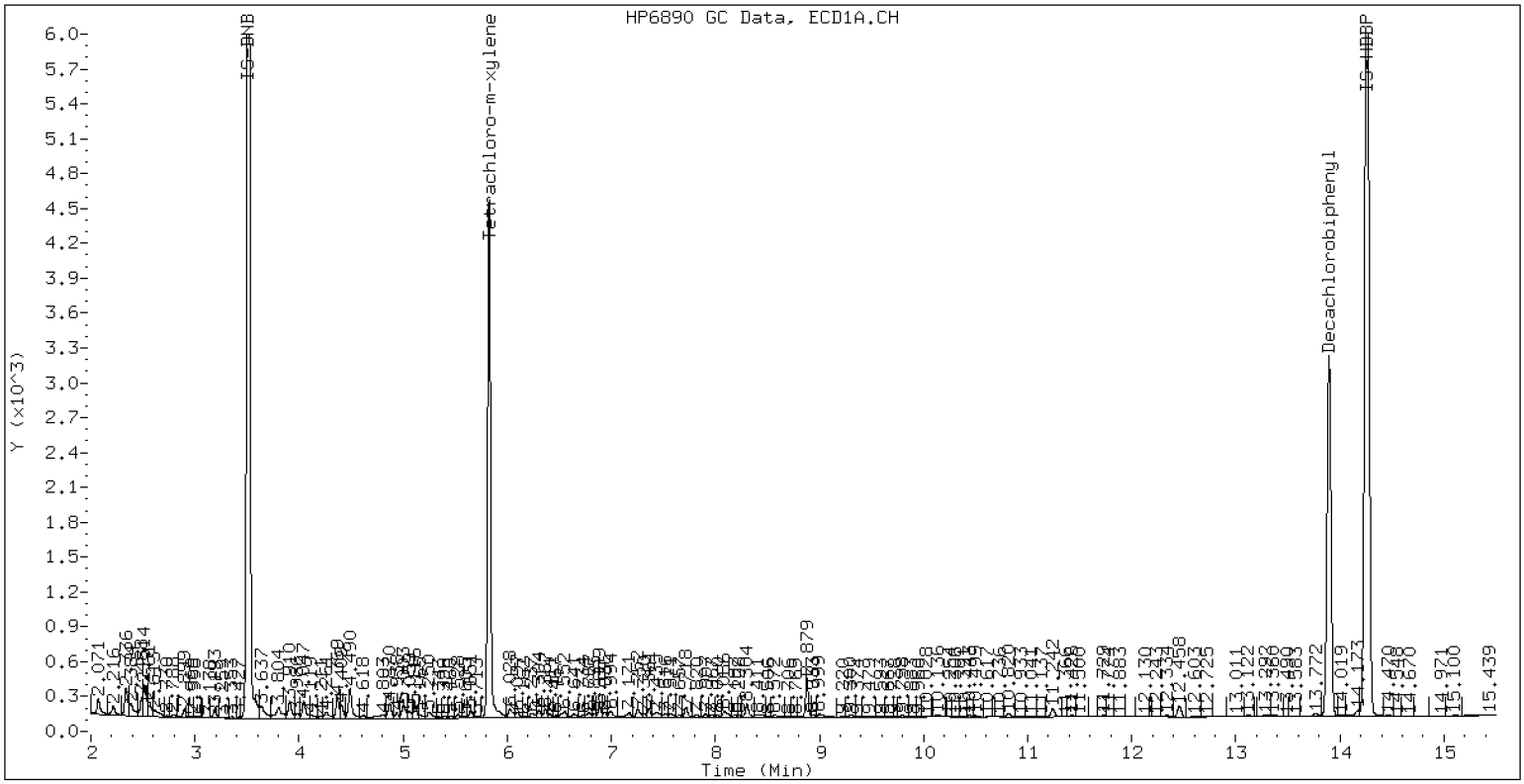
Total PCB Area Col2 (5.809 - 14.028) = 75275 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

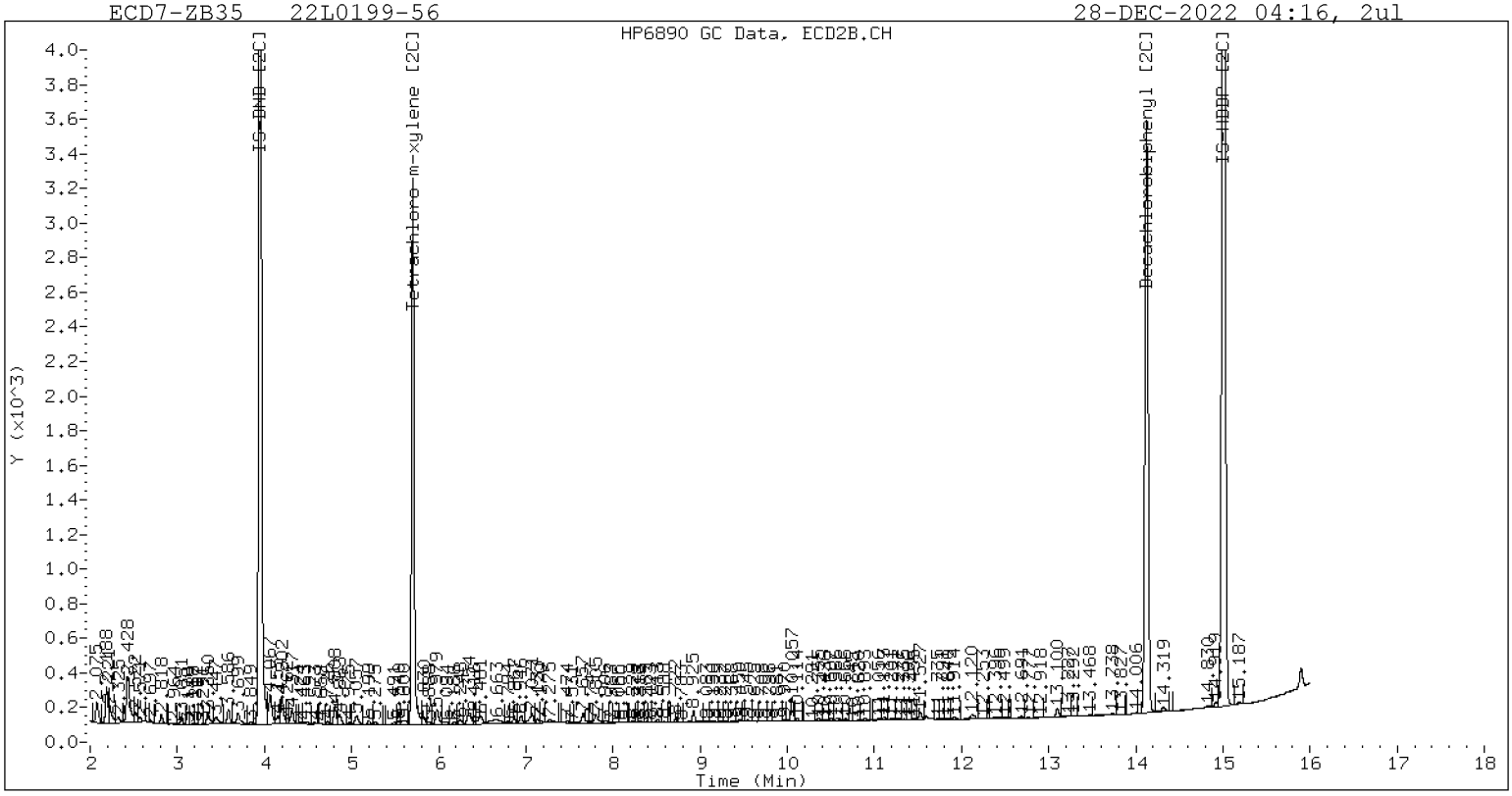
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-56 28-DEC-2022 04:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-56 28-DEC-2022 04:16, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-57 B	File ID:	12272235ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 04:37
% Solids:	65.70	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.12 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9606*	*8.64*	*109*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9606*	*6.36*	*79.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272235ECD7.D
Data file 2: /221227.b/221227.b/12272235ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-57
Client ID:
Injection Date: 28-DEC-2022 04:37
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	201679	5.706	-0.003	139326	32.0	35.4	10.1	Tetrachloro-m-xylene
13.896	-0.007	191814	14.124	-0.004	195346	43.4	40.2	7.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	445368	-0.5
Hexabromobiphenyl	798898	481919	-39.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	287415	15.4
Hexabromobiphenyl	362541	341966	-5.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 159763 Col1 Total PCB = 0.0 ppm*

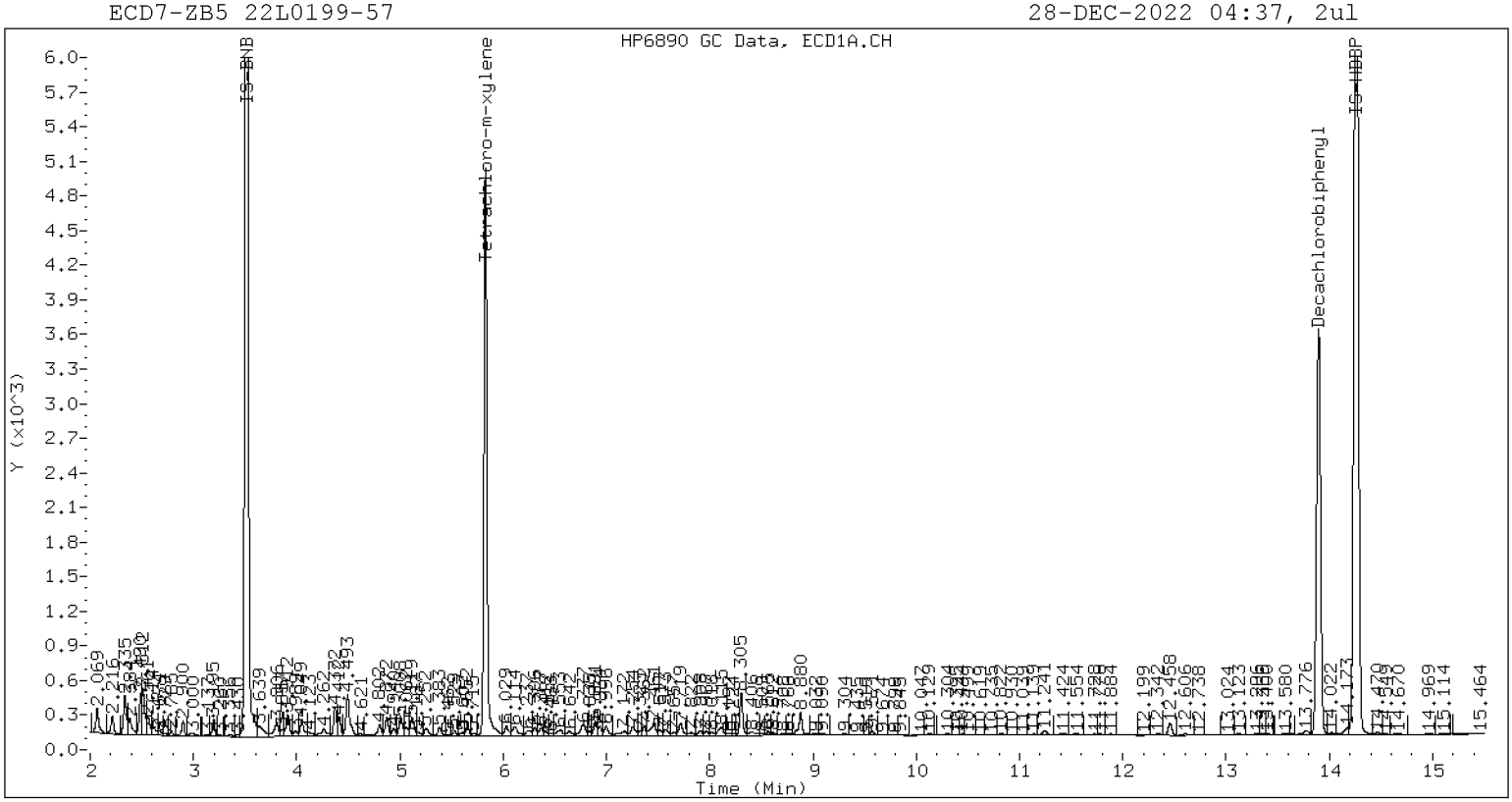
Total PCB Area Col2 (5.809 - 14.028) = 108123 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

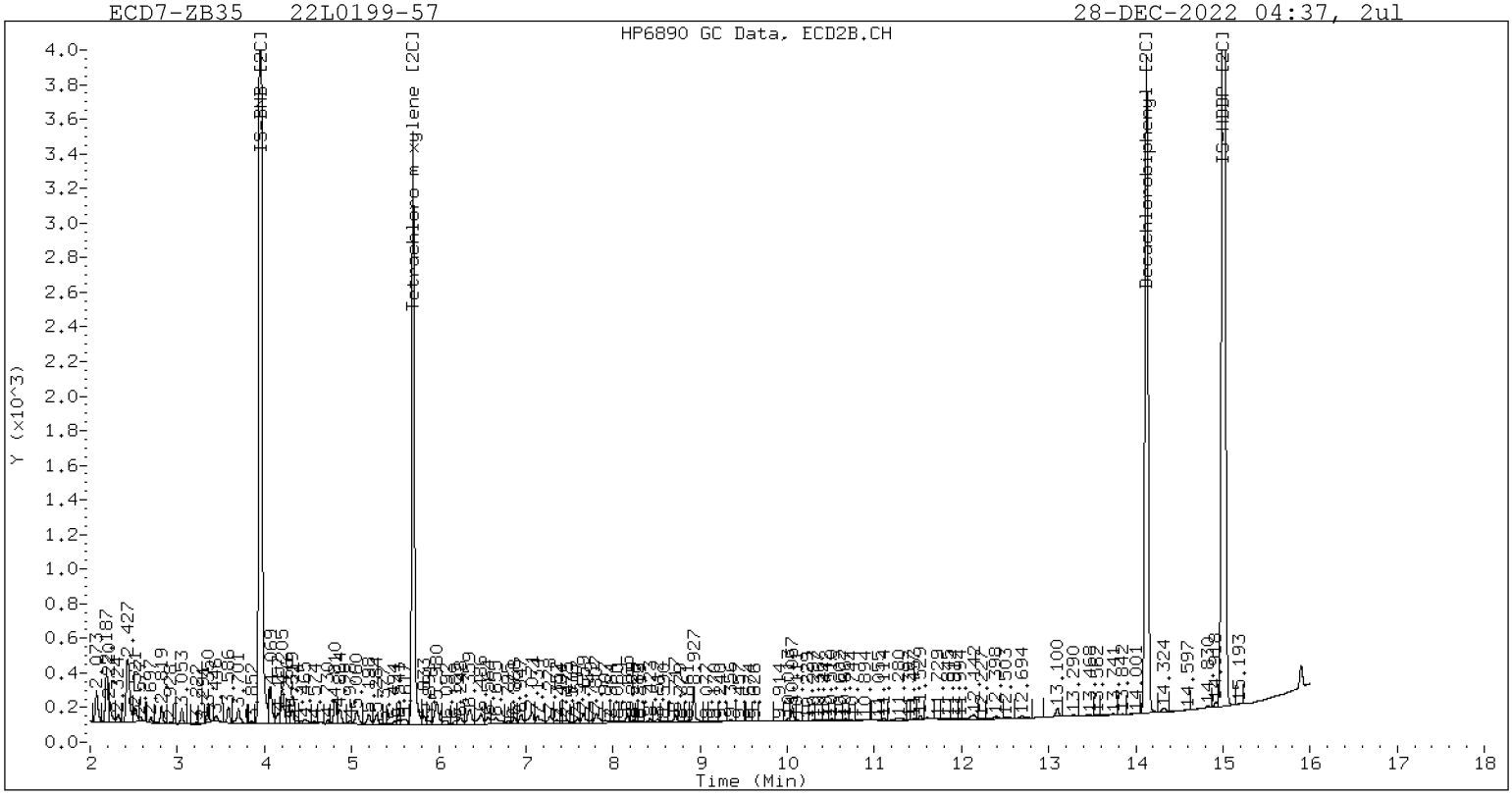
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-57 28-DEC-2022 04:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-57 28-DEC-2022 04:37, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-58 B	File ID:	12272236ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 04:58
% Solids:	72.57	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.24 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9929*	*9.44*	*118*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9929*	*7.08*	*88.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272236ECD7.D
Data file 2: /221227.b/221227.b/12272236ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-58
Client ID:
Injection Date: 28-DEC-2022 04:58
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	223480	5.706	-0.003	149305	35.4	37.0	4.2	Tetrachloro-m-xylene
13.898	-0.006	263716	14.126	-0.003	243278	47.2	44.8	5.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	445140	-0.6
Hexabromobiphenyl	798898	609211	-23.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	294762	18.3
Hexabromobiphenyl	362541	382377	5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.931 - 13.803) = 214042 Col1 Total PCB = 0.1 ppm*

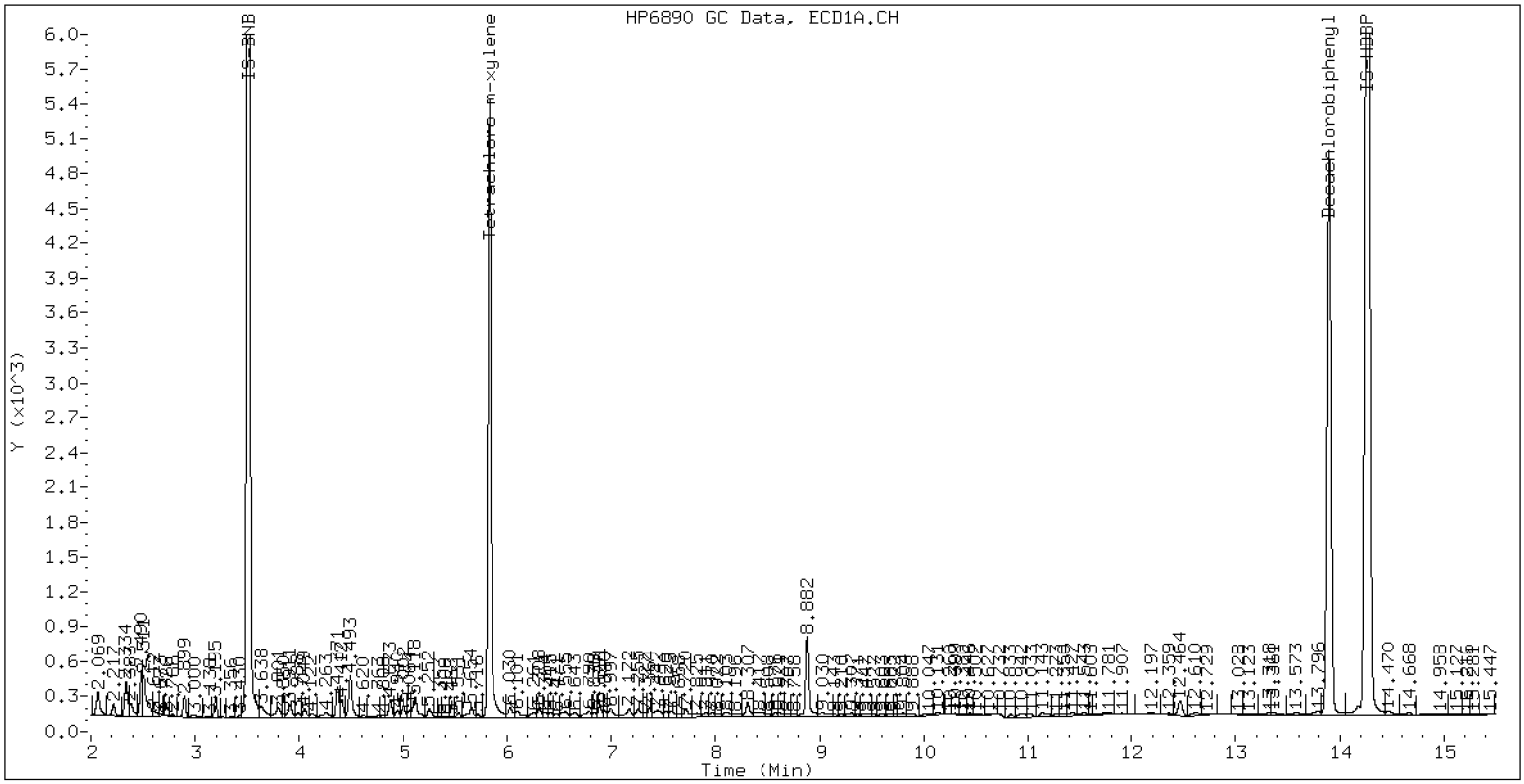
Total PCB Area Col2 (5.809 - 14.028) = 97294 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

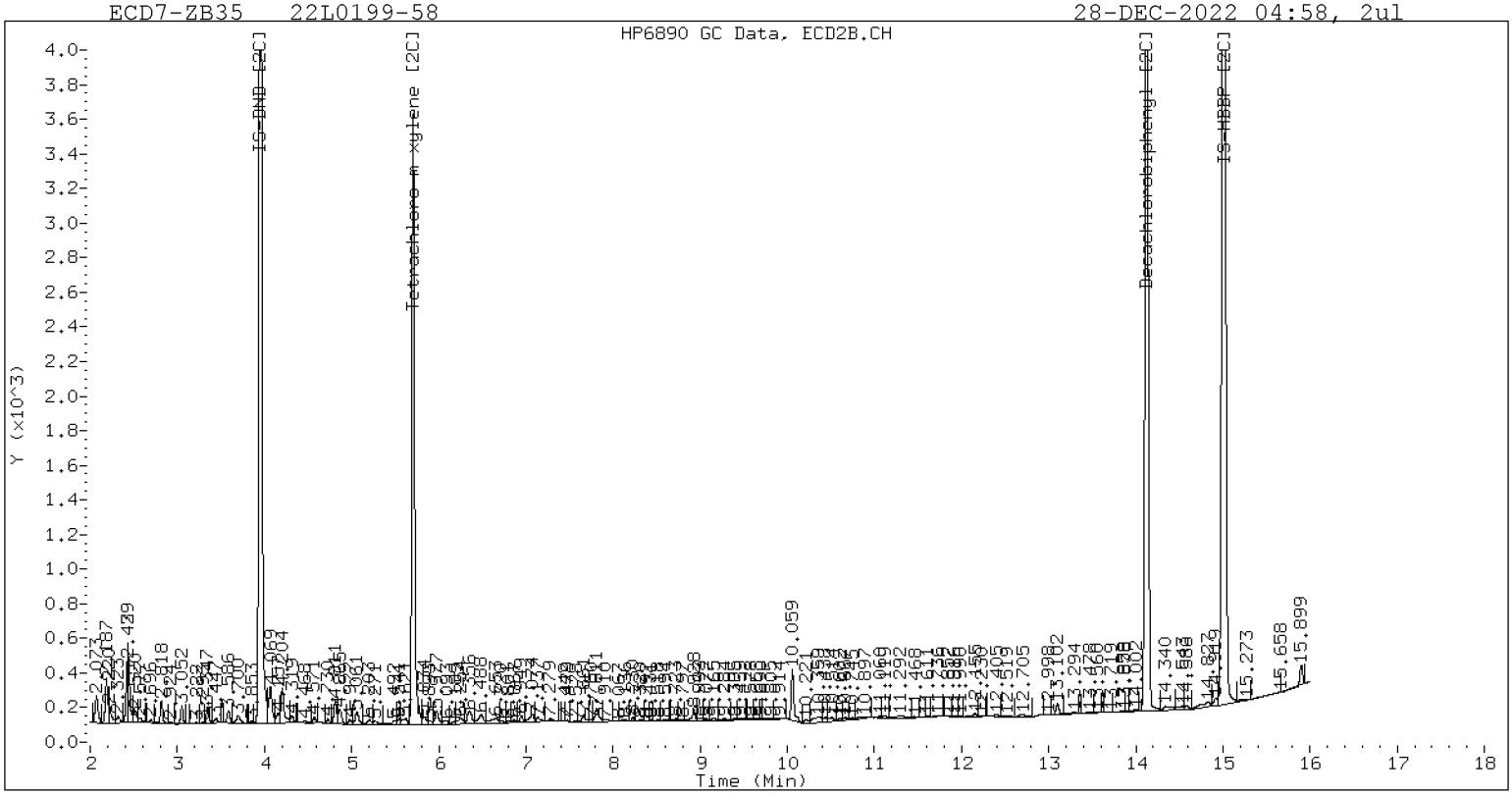
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-58 28-DEC-2022 04:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-58 28-DEC-2022 04:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761K

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-59 B	File ID:	12272237ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 05:19
% Solids:	74.50	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.81 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9850*	*9.32*	*117*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9850*	*6.93*	*86.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272237ECD7.D
Data file 2: /221227.b/221227.b/12272237ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-59
Client ID:
Injection Date: 28-DEC-2022 05:19
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	226992	5.707	-0.002	151528	34.7	37.2	6.8	Tetrachloro-m-xylene
13.897	-0.006	287645	14.125	-0.003	252686	46.7	43.2	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461138	3.0
Hexabromobiphenyl	798898	672470	-15.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297255	19.3
Hexabromobiphenyl	362541	411799	13.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 133541 Col1 Total PCB = 0.0 ppm*

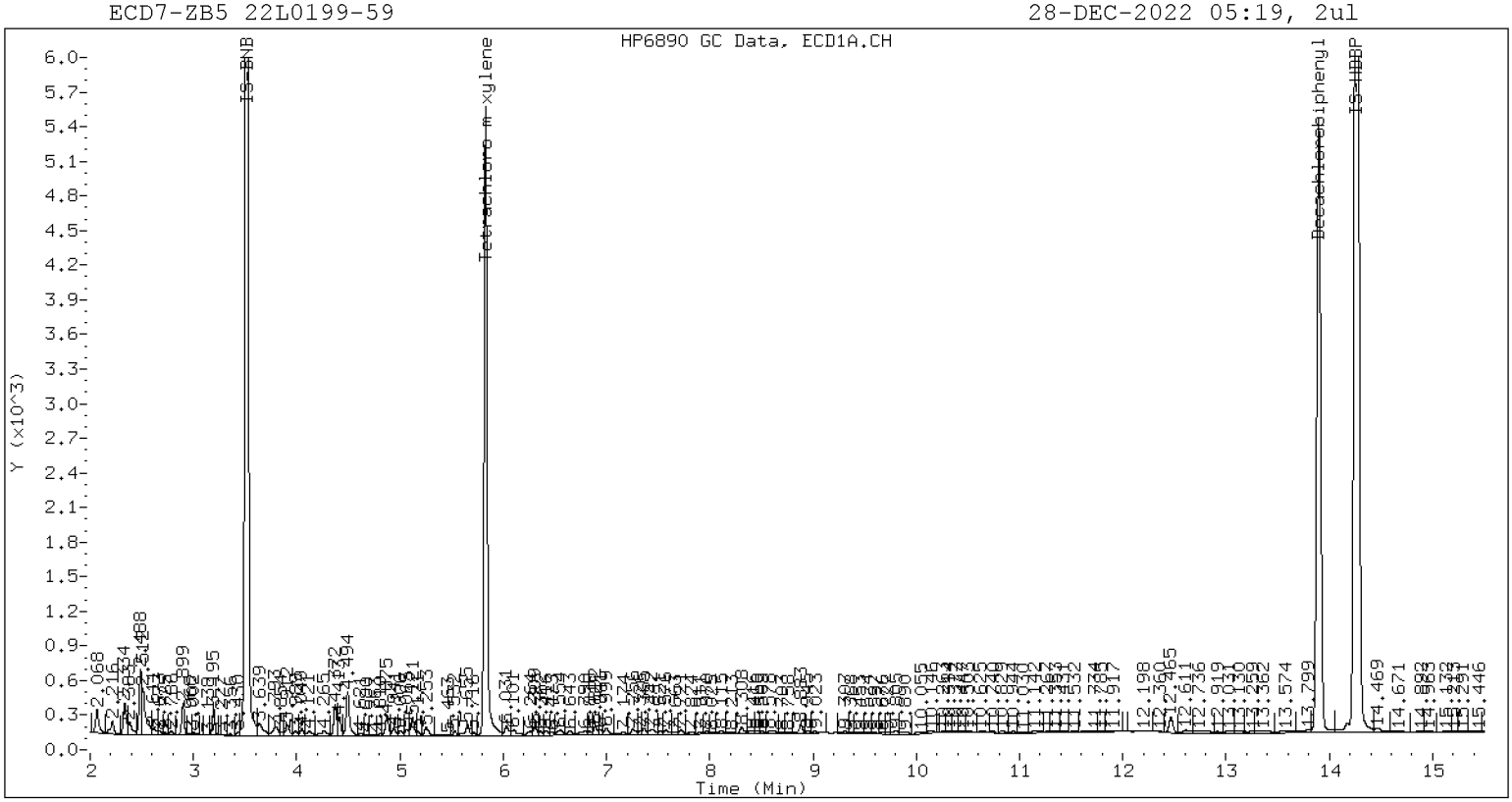
Total PCB Area Col2 (5.809 - 14.028) = 85305 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

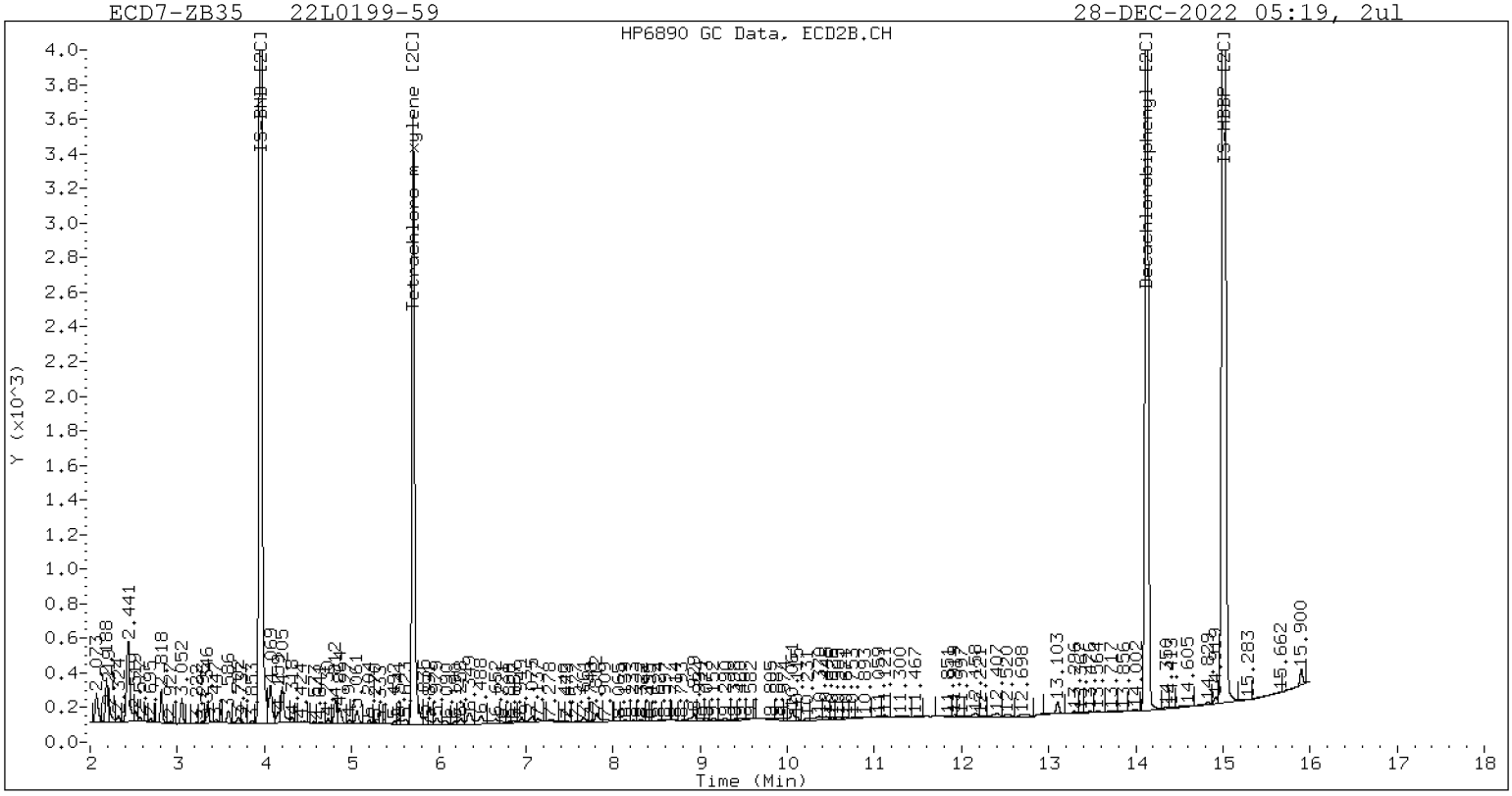
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-59 28-DEC-2022 05:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-59 28-DEC-2022 05:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC761L

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-60 B	File ID:	12272238ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 05:40
% Solids:	78.10	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.06 g Wet / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9727*	*9.26*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9727*	*7.34*	*92.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272238ECD7.D
Data file 2: /221227.b/221227.b/12272238ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-60
Client ID:
Injection Date: 28-DEC-2022 05:40
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	236039	5.707	-0.002	156901	36.8	38.4	4.3	Tetrachloro-m-xylene
13.899	-0.004	311488	14.126	-0.003	269940	46.5	45.2	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	452454	1.1
Hexabromobiphenyl	798898	731332	-8.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297799	19.6
Hexabromobiphenyl	362541	420417	16.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 93977 Col1 Total PCB = 0.0 ppm*

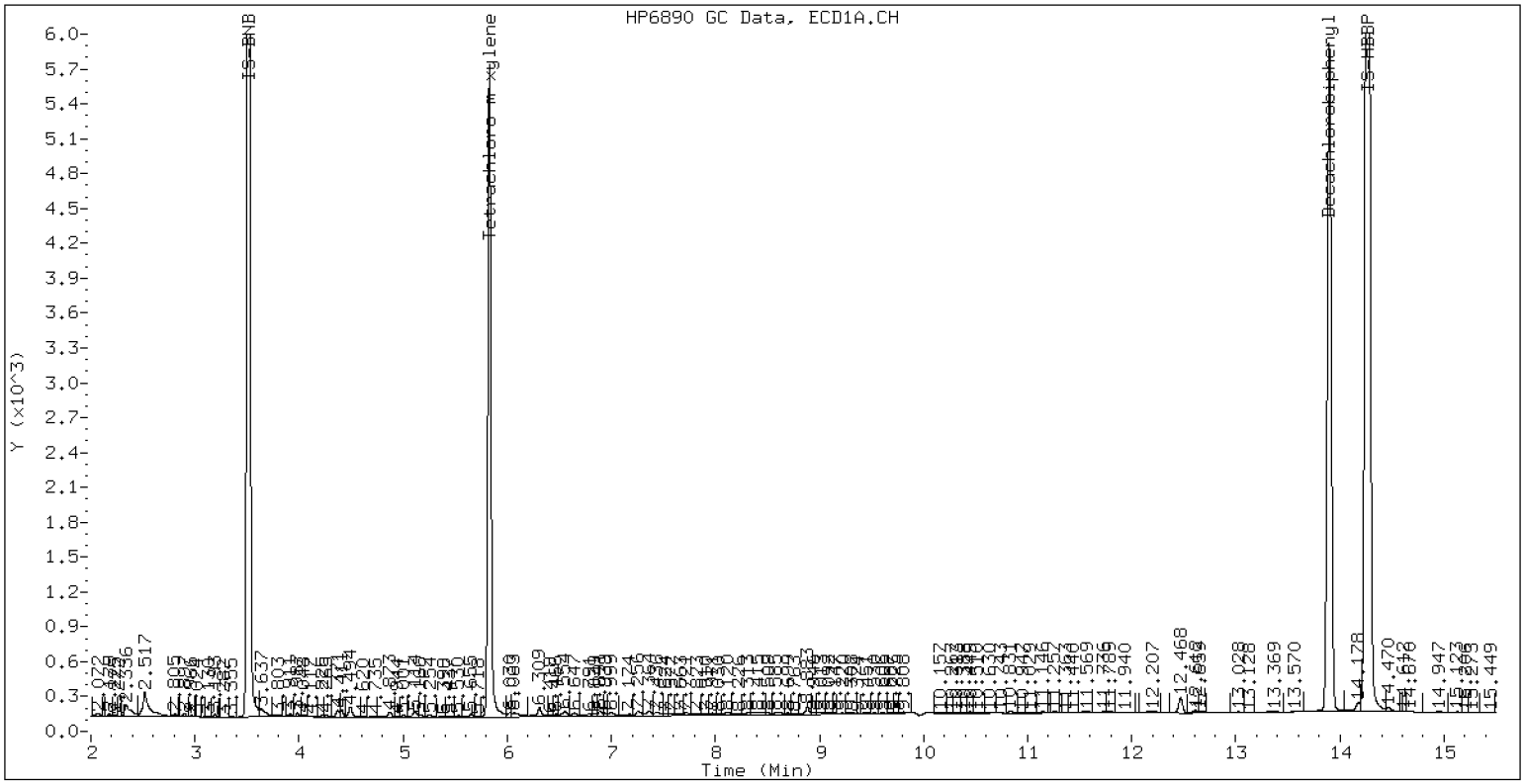
Total PCB Area Col2 (5.809 - 14.028) = 55799 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

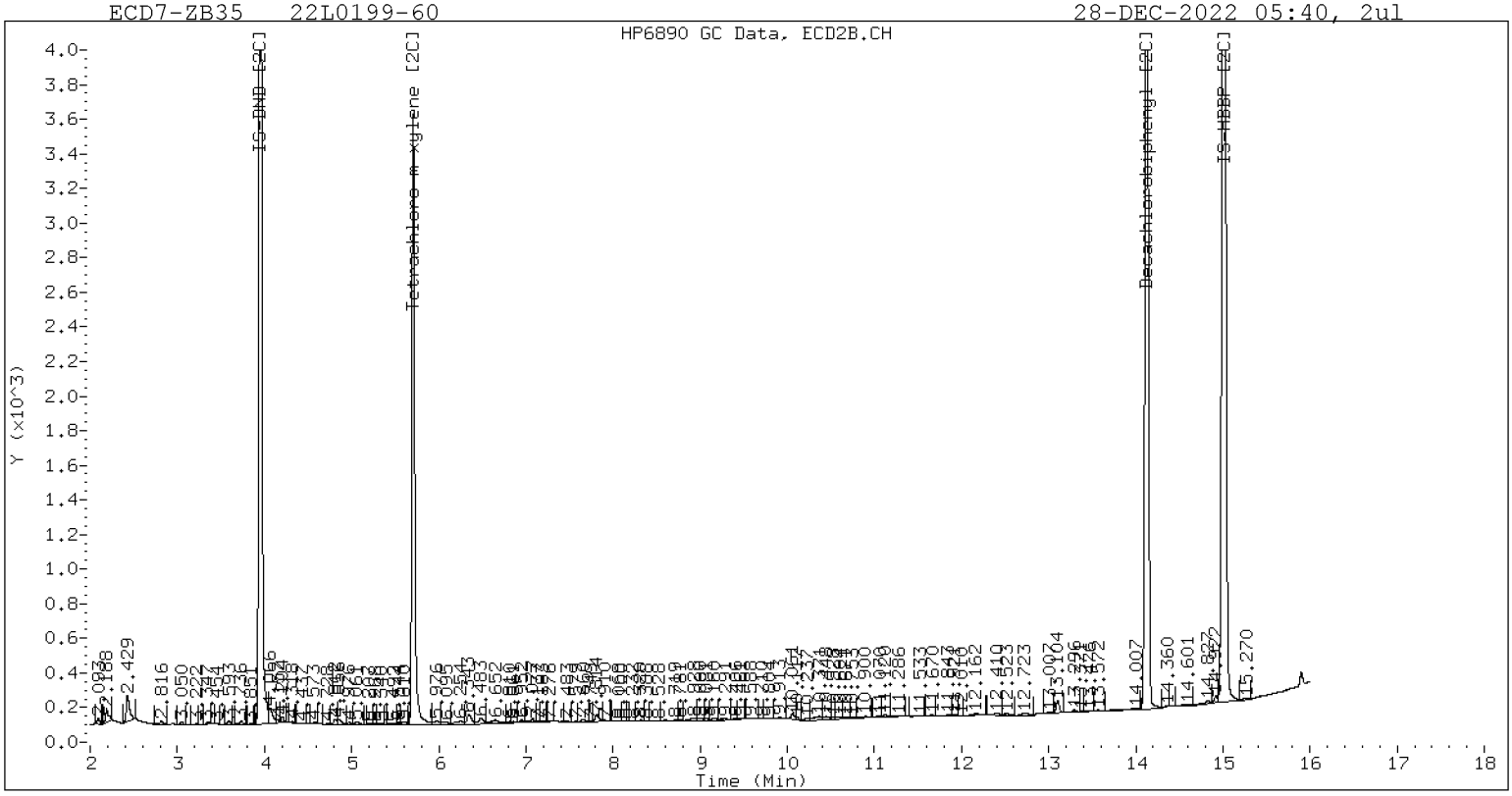
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-60 28-DEC-2022 05:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-60 28-DEC-2022 05:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-61 B	File ID:	01032304ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	01/03/23 09:20
% Solids:	56.71	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.05 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	40.0	15.6	40.0	U
11104-28-2	Aroclor 1221	1	10	40.0	15.6	40.0	U
11141-16-5	Aroclor 1232	1	10	40.0	15.6	40.0	U
53469-21-9	Aroclor 1242	1	10	40.0	15.6	40.0	U
12672-29-6	Aroclor 1248	1	10	976	15.6	40.0	D
11097-69-1	Aroclor 1254	1	10	1210	15.6	40.0	D
11096-82-5	Aroclor 1260	1	10	362	5.9	40.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9971*	*13.9*	*174*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9971*	*8.57*	*107*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032304ECD7.D
Data file 2: /230103.b/230103.b/01032304ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-61RE1
Client ID:
Injection Date: 03-JAN-2023 09:20
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.841	0.009	25822	5.698	-0.009	17368	4.3	4.5	5.5	Tetrachloro-m-xylene
13.907	0.004	36749	14.124	-0.005	28129	6.9	5.1	30.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	425090	-5.0
Hexabromobiphenyl	798898	577160	-27.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	279700	12.3
Hexabromobiphenyl	362541	388487	7.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.424	-0.003	65816	360.1	1	8.312	-0.009	51779	453.2
Aroclor-1248	2	8.593	-0.011	62917	269.6	2	8.718	-0.007	47030	391.3
Aroclor-1248	3	9.010	-0.012	177464	422.7	3	9.151	-0.019	71016	485.8
Aroclor-1248	4	9.312	0.000	185103	900.0	4	9.545	-0.047	98894	576.3
		Total Col1Ave (4 peaks):			488.1		Total Col2Ave (4 peaks):			476.6 RPD = 2
		Corrected Ave (3 peaks):			350.8		Corrected Ave (3 peaks):			443.4 RPD = 23
Aroclor-1254	1	9.312	-0.003	185103	494.6	1	9.449	-0.012	102840	570.3
Aroclor-1254	2	9.387	-0.007	76225	523.7	2	9.968	-0.011	67389	464.8
Aroclor-1254	3	9.680	-0.006	139324	589.4	3	10.117	-0.012	176928	567.7
Aroclor-1254	4	9.812	-0.008	239779	520.4	4	10.357	-0.022	205607	637.0
Aroclor-1254	5	10.155	-0.021	282588	894.6	5	10.566	-0.011	108260	695.5
		Total Col1Ave (5 peaks):			604.5		Total Col2Ave (5 peaks):			587.1 RPD = 3
		Corrected Ave (4 peaks):			532.0		Corrected Ave (4 peaks):			560.0 RPD = 5
Aroclor-1260	1	11.057	-0.006	40412	192.4	1	11.655	-0.008	62276	303.7
Aroclor-1260	2	11.371	-0.006	36778	169.3	2	11.915	-0.010	82392	160.1
Aroclor-1260	3	11.742	-0.010	96529	169.1	3	12.414	-0.030	48877	356.7
Aroclor-1260	4	12.143	-0.016	64405	221.5	4	12.498	-0.011	57328	167.1
Aroclor-1260	5	12.256	-0.005	18132	152.3	NS	---			----
		Total Col1Ave (5 peaks):			180.9		Total Col2Ave (4 peaks):			246.9 RPD = 31
		Corrected Ave (4 peaks):			170.8		Corrected Ave (3 peaks):			210.3 RPD = 21
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.803) = 3630791 Col1 Total PCB = 0.9 ppm*

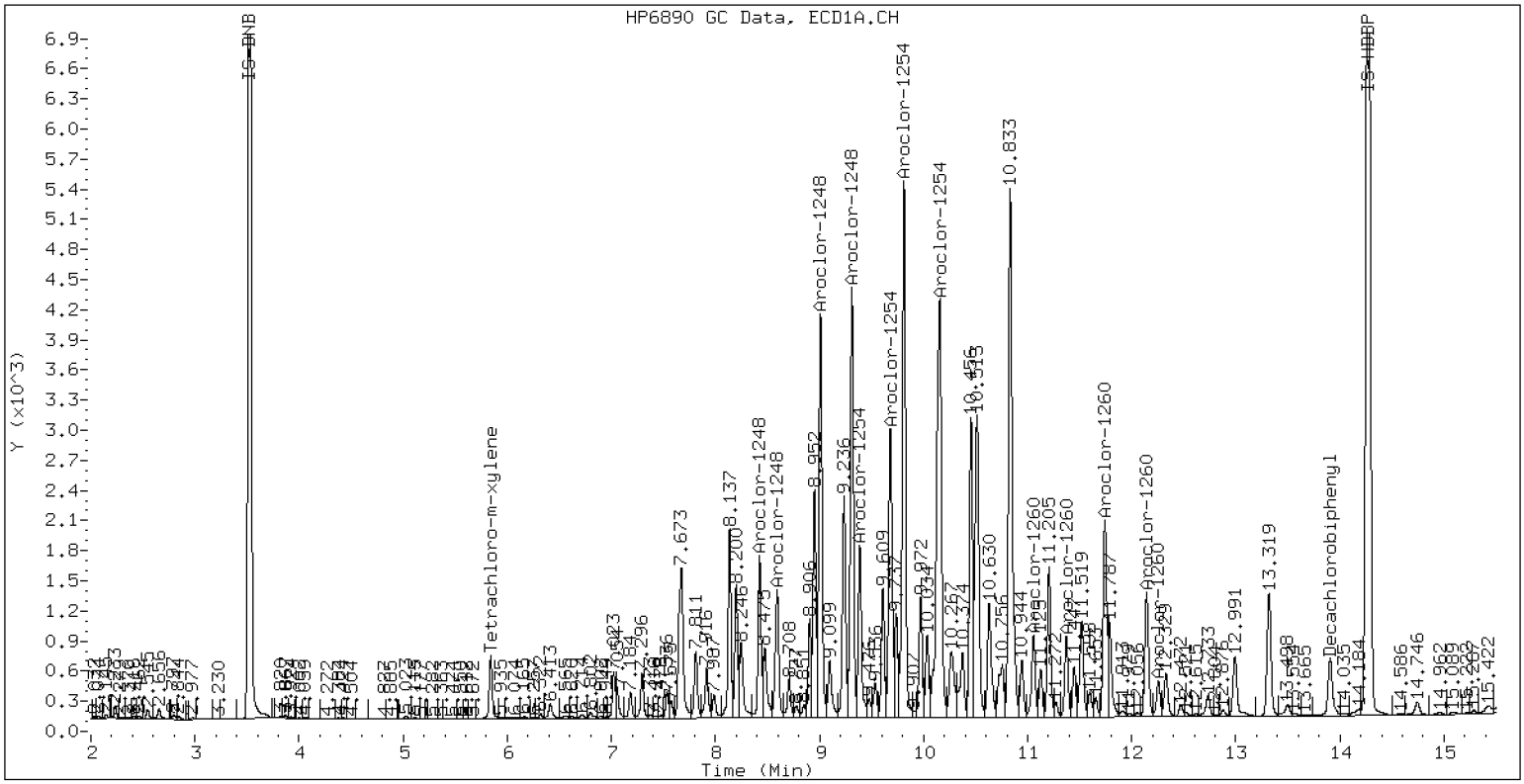
Total PCB Area Col2 (5.808 - 14.029) = 2460991 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

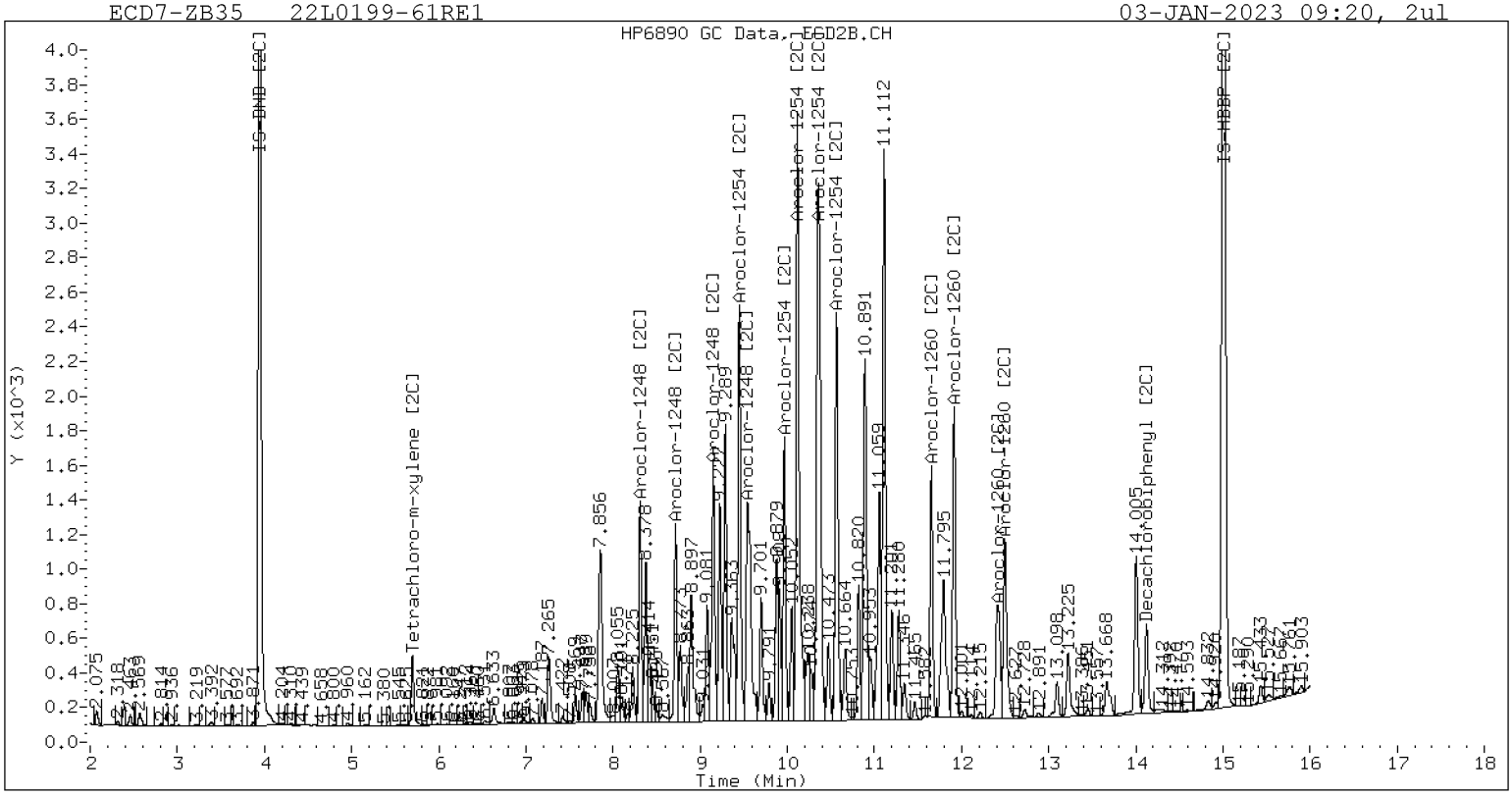
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-61RE1 03-JAN-2023 09:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-61RE1 03-JAN-2023 09:20, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-62 B	File ID:	01032305ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	01/03/23 09:41
% Solids:	57.26	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.86 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	38.2	14.9	38.2	U
11104-28-2	Aroclor 1221	1	10	38.2	14.9	38.2	U
11141-16-5	Aroclor 1232	1	10	38.2	14.9	38.2	U
53469-21-9	Aroclor 1242	1	10	38.2	14.9	38.2	U
12672-29-6	Aroclor 1248	2	10	900	14.9	38.2	D
11097-69-1	Aroclor 1254	2	10	979	14.9	38.2	D
11096-82-5	Aroclor 1260	1	10	381	5.6	38.2	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.6396*	*11.8*	*154*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.6396*	*8.22*	*108*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.6396*	*9.77*	*128*	*40 - 126*	*
Tetrachlorometaxylene	*2*	*7.6396*	*8.92*	*117*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032305ECD7.D
Data file 2: /230103.b/230103.b/01032305ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-62RE1
Client ID:
Injection Date: 03-JAN-2023 09:41
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.004	25331	5.703	-0.005	17847	4.3	4.7	8.1	Tetrachloro-m-xylene
13.898	-0.005	32335	14.125	-0.004	27870	6.2	5.1	18.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	415091	-7.3
Hexabromobiphenyl	798898	571258	-28.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	278853	11.9
Hexabromobiphenyl	362541	383868	5.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.013	68492	383.8	1	8.314	-0.007	72450	636.0
Aroclor-1248	2	8.583	-0.021	49016	215.1	2	8.719	-0.006	55391	462.3
Aroclor-1248	3	9.001	-0.021	158177	385.9	3	9.153	-0.018	47490	325.8
Aroclor-1248	4	9.302	-0.009	162500	809.2	4	9.631	0.039	9483	~~55.~~4
	Total Col1Ave (4 peaks):				448.5	Total Col2Ave (4 peaks):				369.9 RPD = 19
	Corrected Ave (3 peaks):				328.2	Corrected Ave (3 peaks):				281.2 RPD = 15
										471.37
Aroclor-1254	1	9.302	-0.012	162500	444.6	1	9.451	-0.010	87813	488.4
Aroclor-1254	2	9.378	-0.016	71748	504.8	2	9.969	-0.009	44326	306.7
Aroclor-1254	3	9.679	-0.007	147832	640.4	3	10.118	-0.011	170003	547.2
Aroclor-1254	4	9.803	-0.017	224286	498.5	4	10.365	-0.013	179431	557.6
Aroclor-1254	5	10.141	-0.034	132528	429.7	5	10.567	-0.010	102868	662.8
	Total Col1Ave (5 peaks):				503.6	Total Col2Ave (5 peaks):				512.5 RPD = 2
	Corrected Ave (4 peaks):				469.4	Corrected Ave (4 peaks):				475.0 RPD = 1
Aroclor-1260	1	11.047	-0.015	49145	236.3	1	11.656	-0.007	58588	289.1
Aroclor-1260	2	11.363	-0.014	40371	187.7	2	11.916	-0.009	85118	167.4
Aroclor-1260	3	11.733	-0.019	100590	178.0	3	12.437	-0.007	24195	178.7
Aroclor-1260	4	12.134	-0.024	61247	212.8	4	12.501	-0.009	59239	174.8
Aroclor-1260	5	12.249	-0.013	21477	182.3	NS	---			----
	Total Col1Ave (5 peaks):				199.4	Total Col2Ave (4 peaks):				202.5 RPD = 2
	Corrected Ave (4 peaks):				190.2	Corrected Ave (3 peaks):				173.6 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 3289070 Col1 Total PCB = 0.8 ppm*

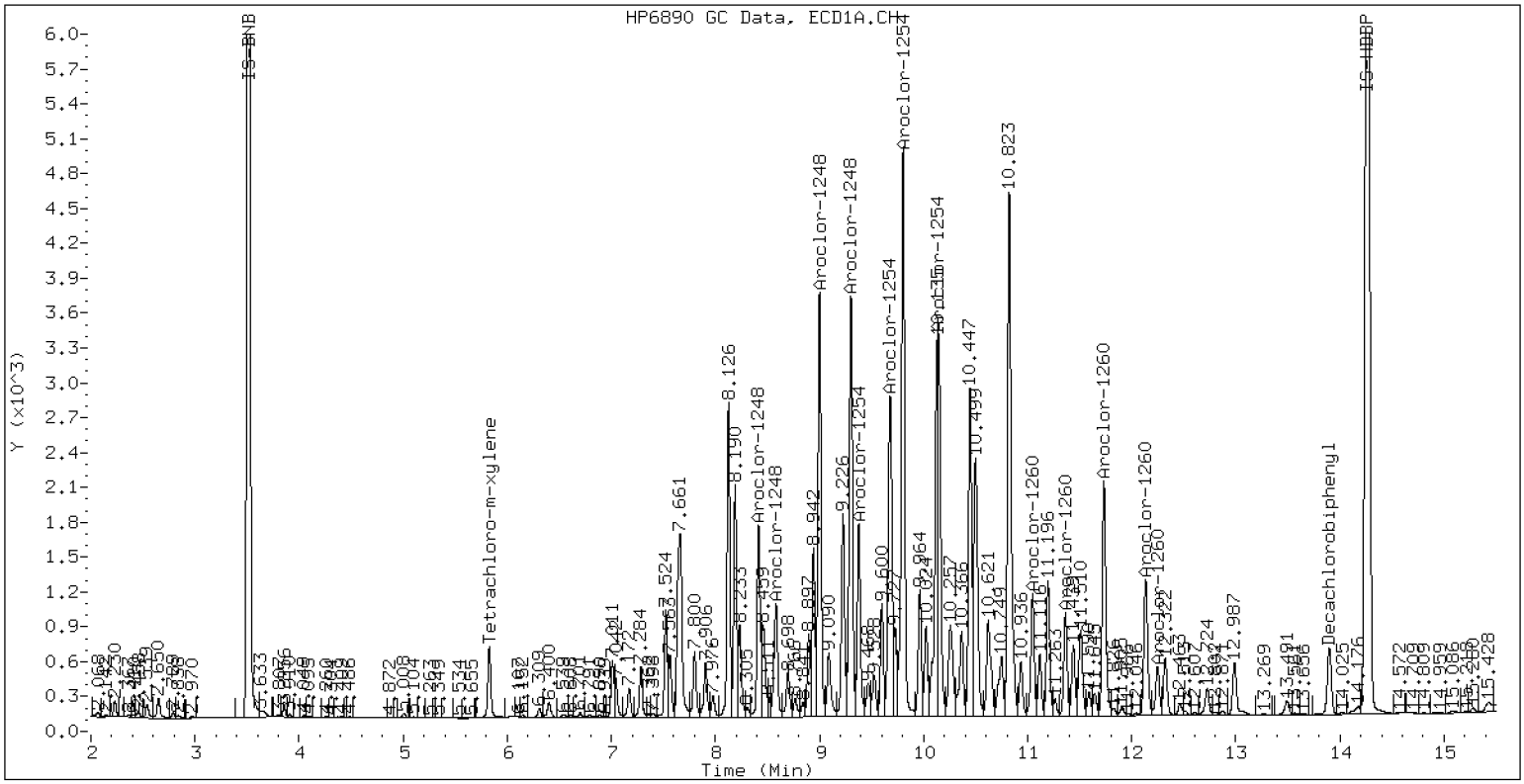
Total PCB Area Col2 (5.808 - 14.029) = 2339084 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

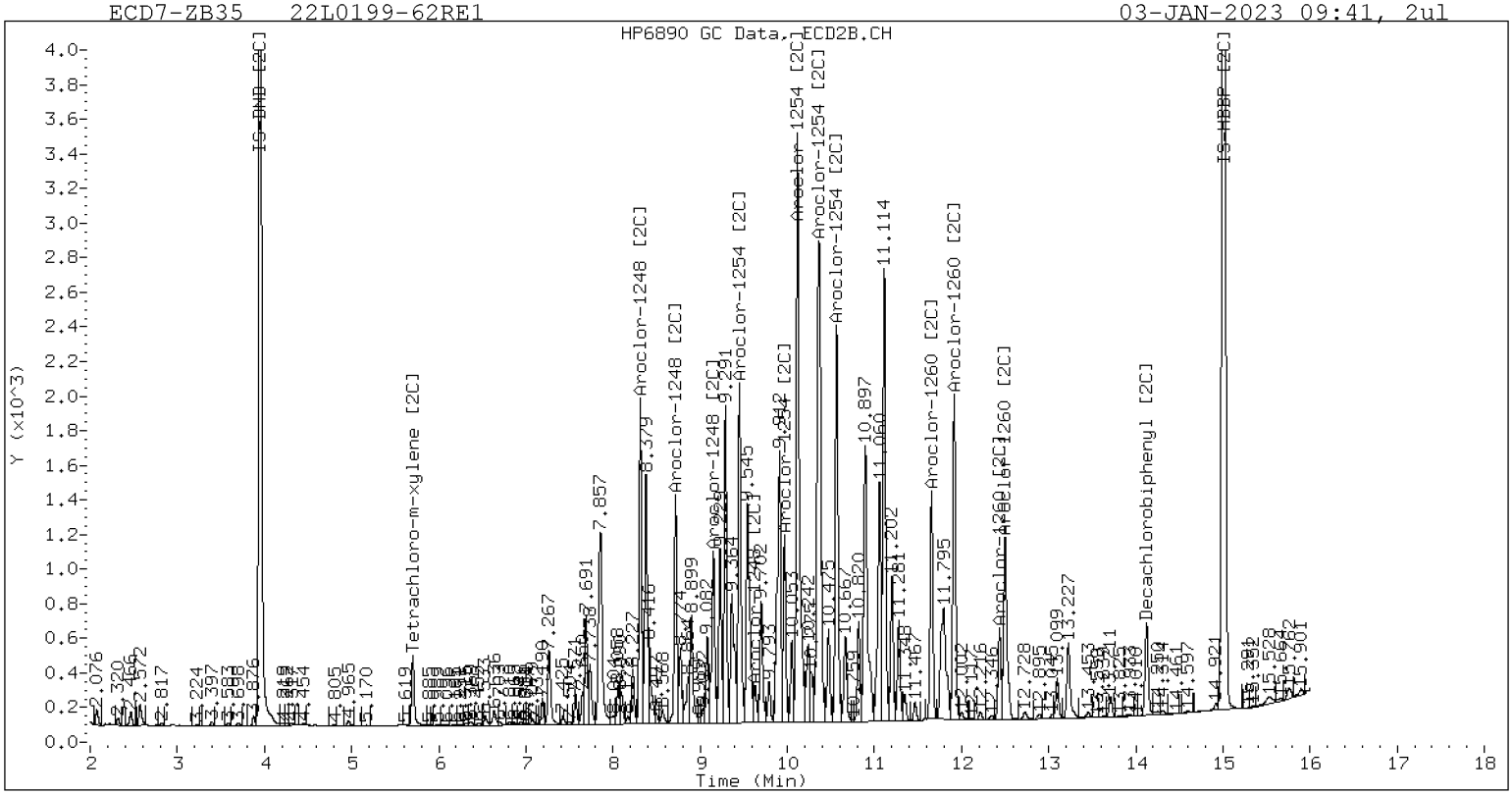
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-62RE1 03-JAN-2023 09:41, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-62RE1 03-JAN-2023 09:41, 2ul

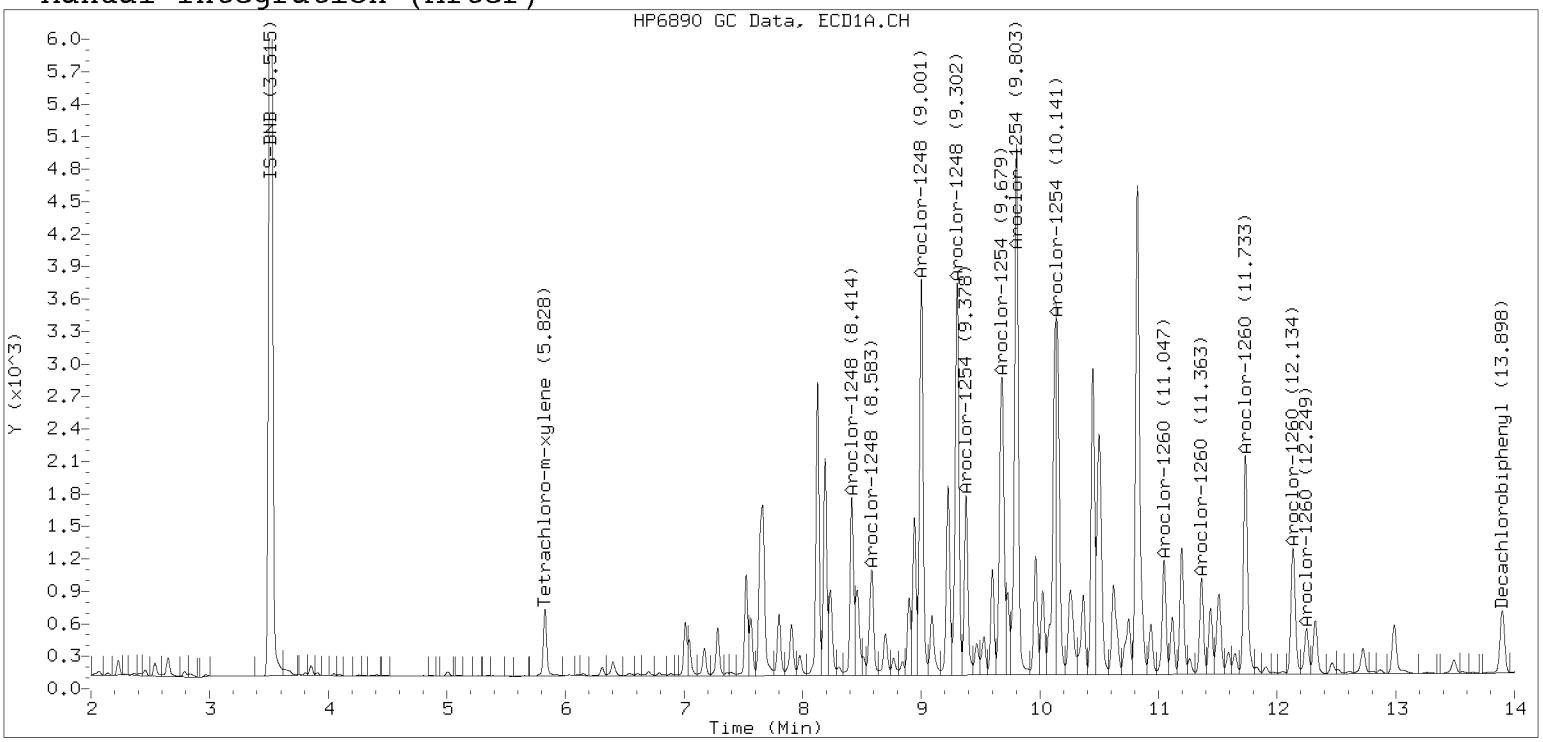


ZB-35 Manual Integration: NO

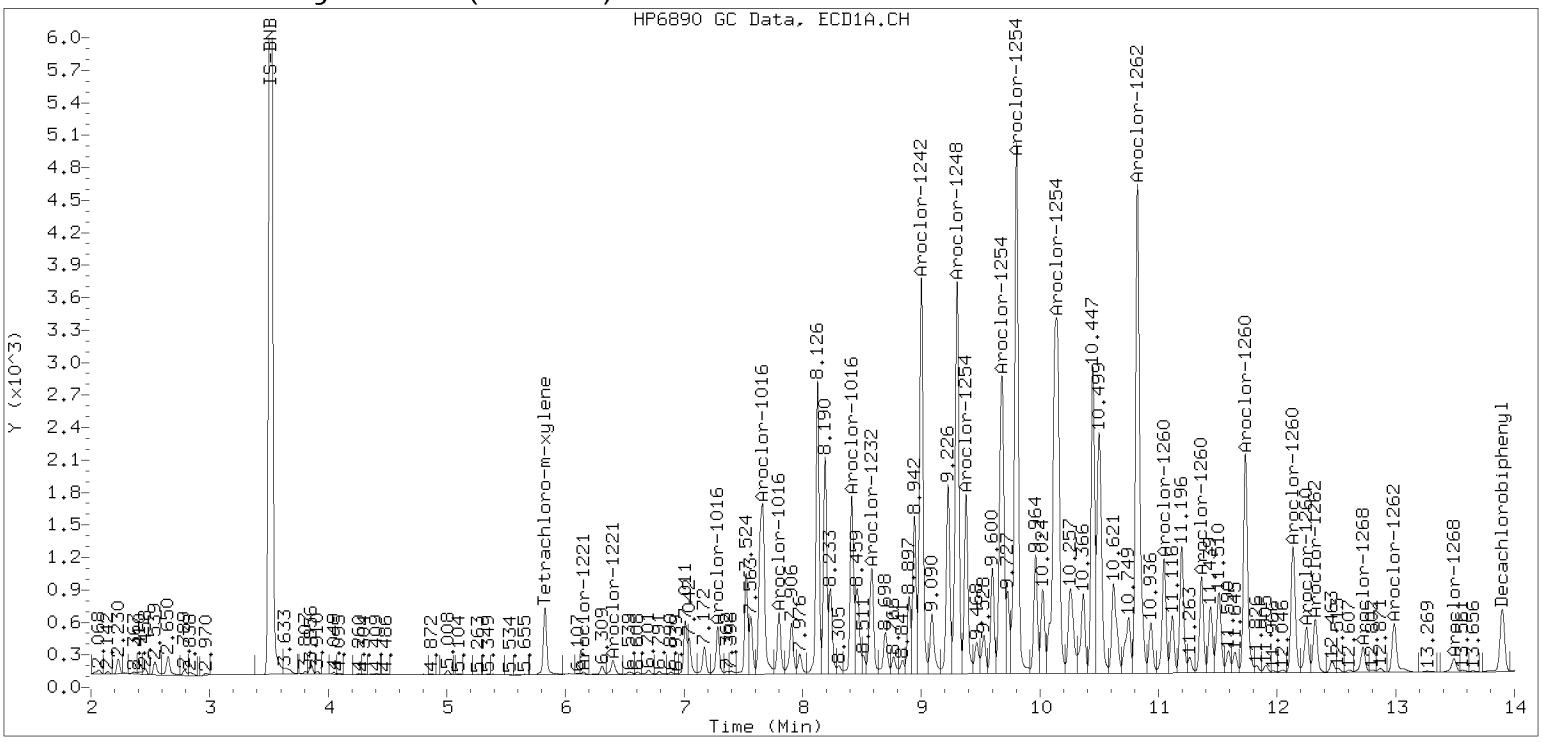
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032305ECD7.D Injection Date: 03-JAN-2023 09:41

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-63 B	File ID:	12312212ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 14:02
% Solids:	58.82	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.27 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	102	1.6	4.0	
11097-69-1	Aroclor 1254	1	1	140	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	56.6	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9930*	*8.70*	*109*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9930*	*5.83*	*72.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9930*	*8.32*	*104*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9930*	*6.65*	*83.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312212ECD7.D
Data file 2: /221231.b/221231.b/12312212ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-63
Client ID:
Injection Date: 31-DEC-2022 14:02
Report Date: 01/06/2023 11:42
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.007	184166	5.703	-0.007	130553	29.2	33.3	13.3	Tetrachloro-m-xylene
13.895	-0.007	179390	14.124	-0.006	190692	43.5	41.7	4.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	445703	-0.4
Hexabromobiphenyl	798898	449524	-43.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	285989	14.8
Hexabromobiphenyl	362541	322447	-11.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.412	-0.013	73974	386.0	1	8.313	-0.010	72310	618.9
Aroclor-1248	2	8.577	-0.022	49789	203.5	2	8.719	-0.010	57201	465.5
Aroclor-1248	3	8.997	-0.023	193505	439.6	3	9.151	-0.024	67178	449.4
Aroclor-1248	4	9.299	-0.013	214014	992.5	4	9.543	-0.052	104327	594.6
		Total Col1Ave (4 peaks):			505.4		Total Col2Ave (4 peaks):			532.1 RPD = 5
		Corrected Ave (3 peaks):			343.0		Corrected Ave (3 peaks):			503.2 RPD = 38
										511.27
Aroclor-1254	1	9.299	-0.015	214014	545.4	1	9.450	-0.012	126947	688.5
Aroclor-1254	2	9.374	-0.019	98900	648.0	2	9.968	-0.011	51038	344.3
Aroclor-1254	3	9.679	-0.006	211117	851.8	3	10.116	-0.014	216910	680.7
Aroclor-1254	4	9.798	-0.022	285098	590.1	4	10.353	-0.025	126976	384.8
Aroclor-1254	5	10.137	-0.036	284788	859.9	5	10.564	-0.011	132288	831.1
		Total Col1Ave (5 peaks):			699.0		Total Col2Ave (5 peaks):			585.9 RPD = 18
		Corrected Ave (4 peaks):			658.8		Corrected Ave (4 peaks):			524.6 RPD = 23
Aroclor-1260	1	11.043	-0.013	51322	313.7	1	11.654	-0.009	67612	397.2
Aroclor-1260	2	11.360	-0.014	42270	249.8	2	11.914	-0.012	99144	232.1
Aroclor-1260	3	11.728	-0.018	107499	241.8	3	12.434	-0.011	29906	263.0
Aroclor-1260	4	12.130	-0.020	62240	274.9	4	12.497	-0.012	68308	239.9
Aroclor-1260	5	12.244	-0.012	26496	285.8	NS	---			----
		Total Col1Ave (5 peaks):			273.2		Total Col2Ave (4 peaks):			283.1 RPD = 4
		Corrected Ave (4 peaks):			263.1		Corrected Ave (3 peaks):			245.0 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.802) = 4035908 Col1 Total PCB = 0.9 ppm*

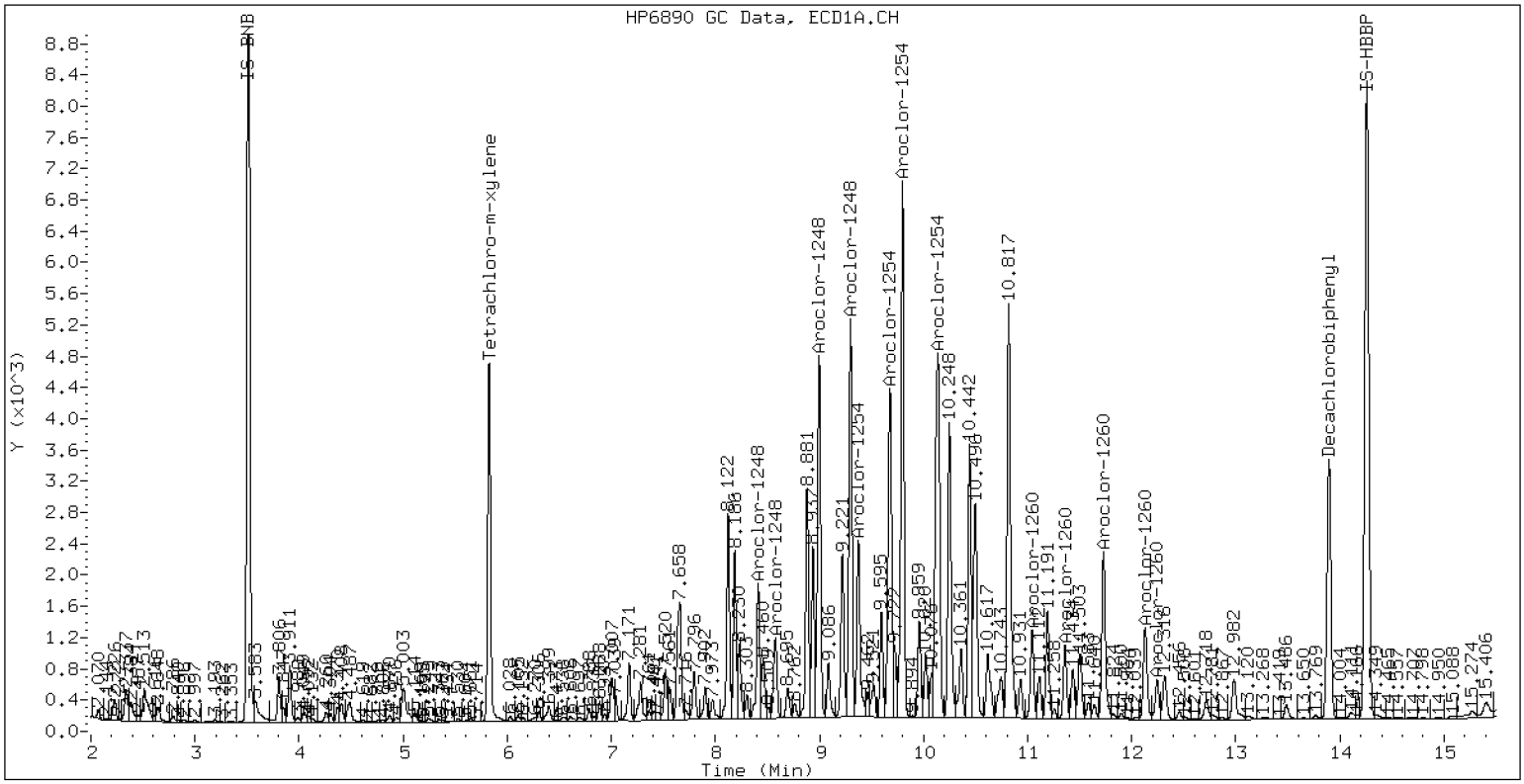
Total PCB Area Col2 (5.810 - 14.030) = 3119825 Col2 Total PCB = 1.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

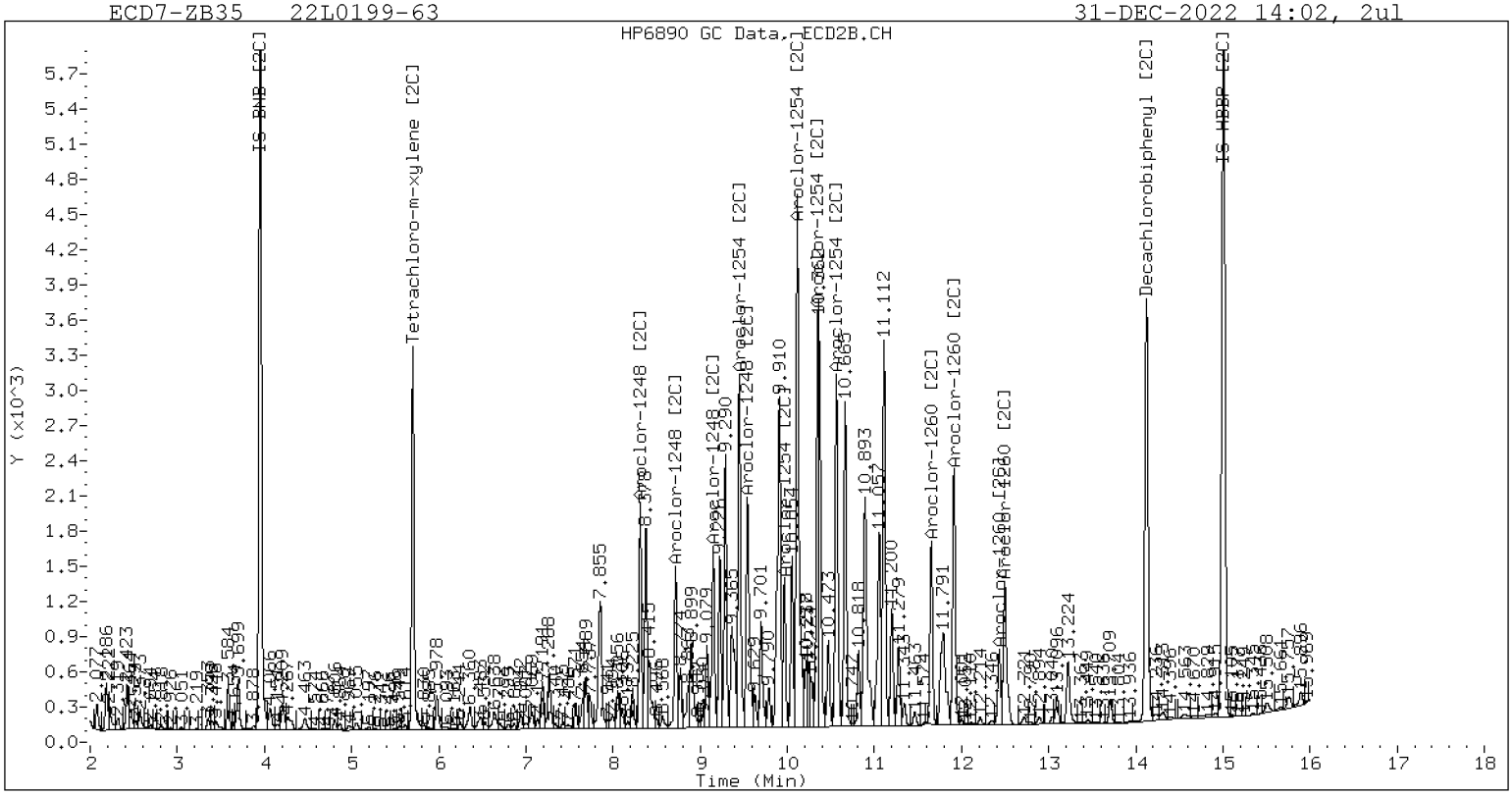
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-63 31-DEC-2022 14:02, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-63 31-DEC-2022 14:02, 2ul

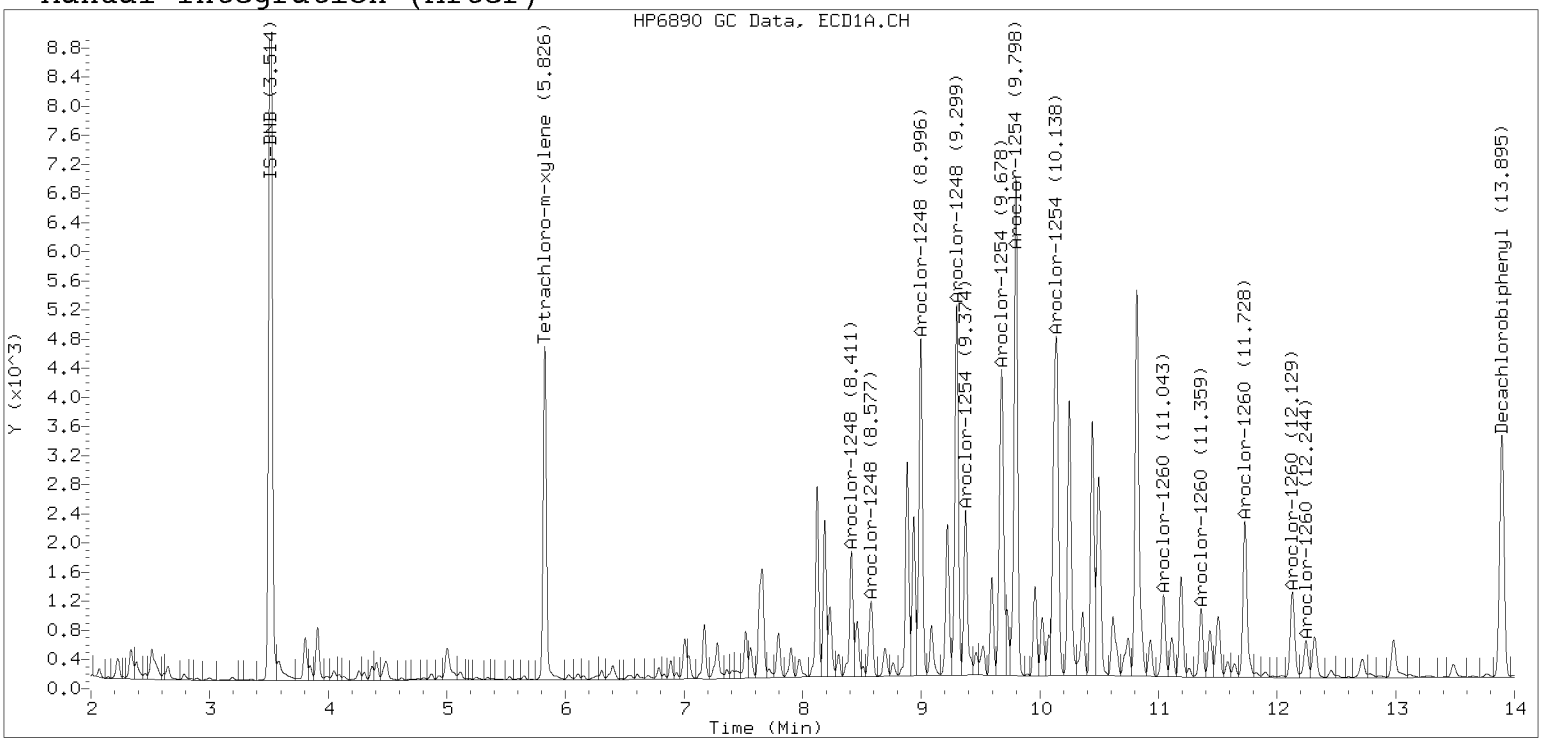


ZB-35 Manual Integration: YES

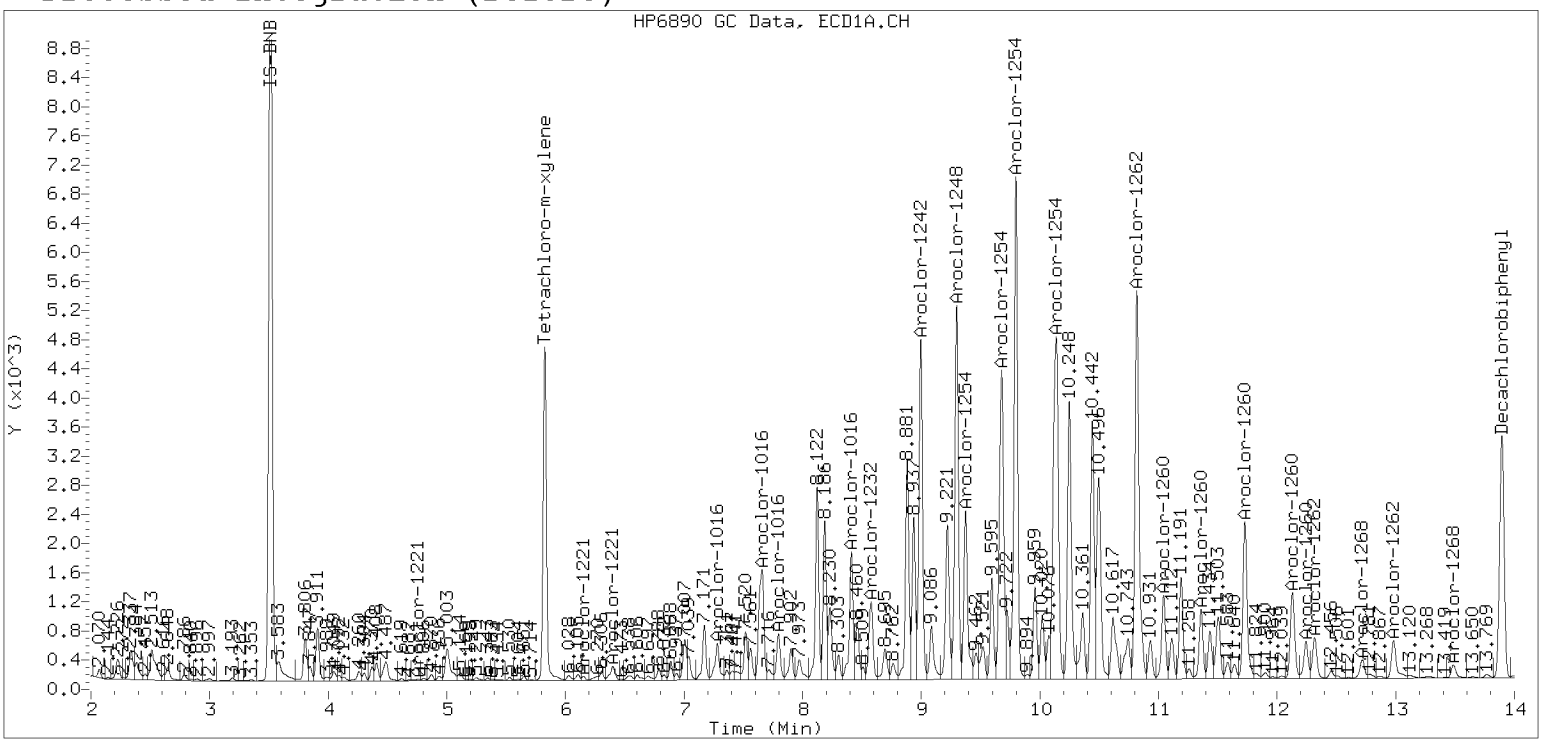
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312212ECD7.D Injection Date: 31-DEC-2022 14:02

Manual Integration (After)



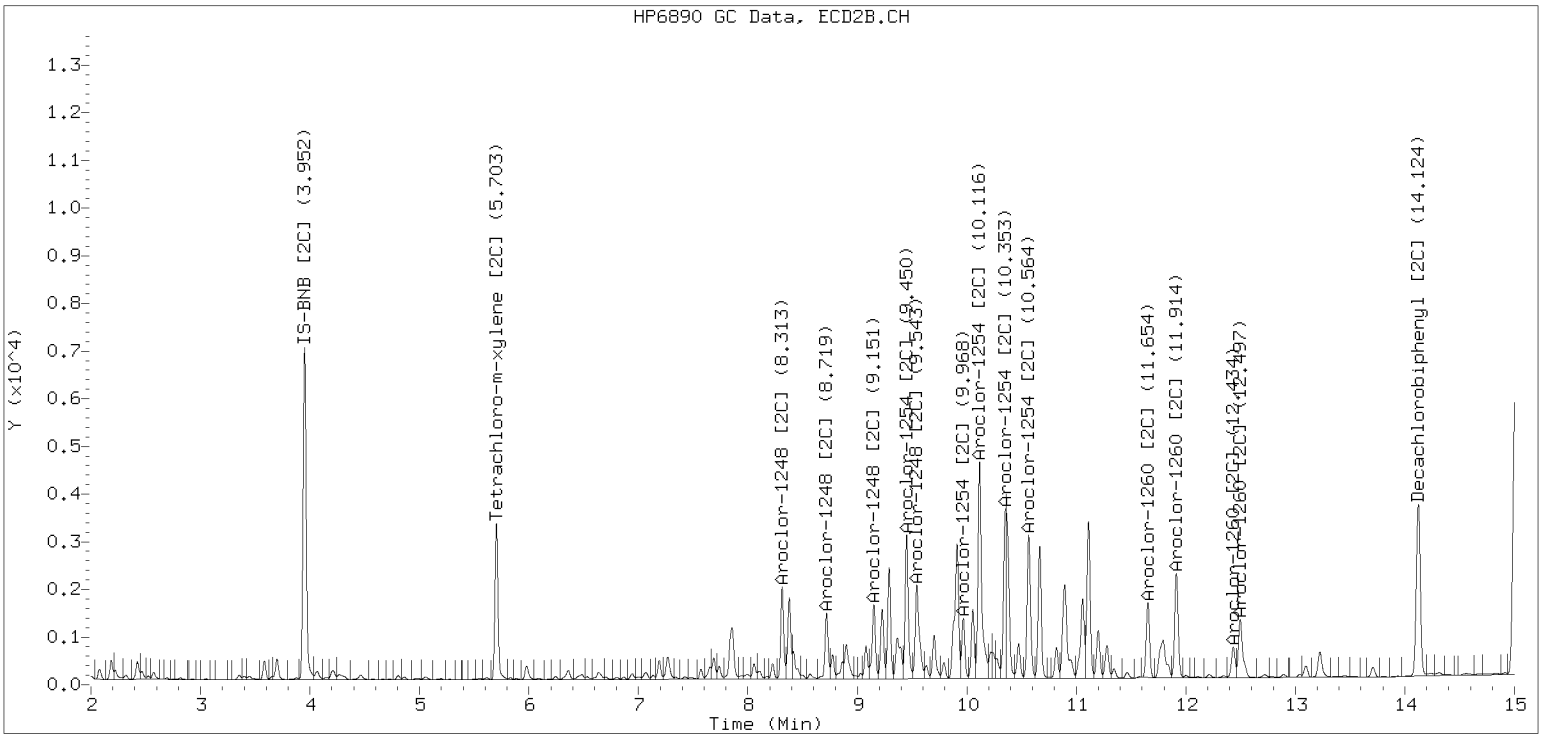
Processed Integration (Before)



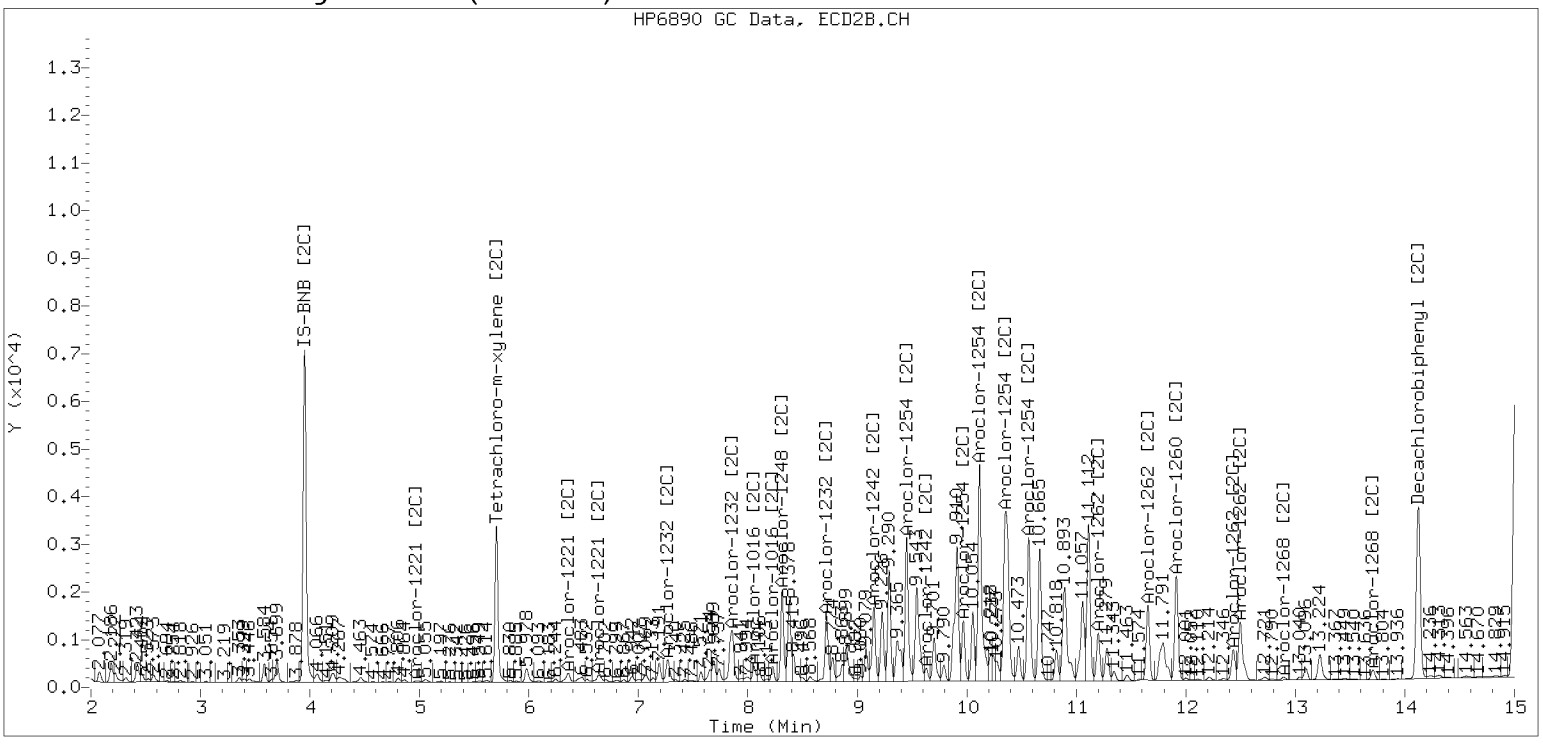
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312212ECD7.D Injection Date: 31-DEC-2022

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-64 B	File ID:	12312213ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 14:23
% Solids:	63.69	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.68 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	108	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	161	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	76.1	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9782*	*8.52*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9782*	*5.57*	*69.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9782*	*7.98*	*100*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9782*	*6.41*	*80.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312213ECD7.D
Data file 2: /221231.b/221231.b/12312213ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-64
Client ID:
Injection Date: 31-DEC-2022 14:23
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	180698	5.703	-0.007	128487	27.9	32.2	14.1	Tetrachloro-m-xylene
13.895	-0.006	182793	14.123	-0.007	190561	42.7	40.0	6.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	456562	2.0
Hexabromobiphenyl	798898	466657	-41.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	291452	17.0
Hexabromobiphenyl	362541	335582	-7.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.411	-0.017	70656	359.9	1	8.313	-0.010	82271	691.0
Aroclor-1248	2	8.576	-0.028	48860	194.9	2	8.718	-0.010	55182	440.7
Aroclor-1248	3	8.996	-0.026	219923	487.8	3	9.151	-0.023	74236	487.3
Aroclor-1248	4	9.299	-0.012	247544	1120.7	4	9.544	-0.052	112041	626.6
		Total Col1Ave (4 peaks):			540.8		Total Col2Ave (4 peaks):			561.4 RPD = 4
		Corrected Ave (3 peaks):			347.5		Corrected Ave (3 peaks):			518.2 RPD = 39
										539.67
Aroclor-1254	1	9.299	-0.022	247544	615.8	1	9.450	-0.011	150432	800.5
Aroclor-1254	2	9.373	-0.029	107287	686.3	2	9.968	-0.011	62433	413.3
Aroclor-1254	3	9.666	-0.028	135068	532.0	3	10.116	-0.014	275298	847.8
Aroclor-1254	4	9.798	-0.033	348666	704.5	4	10.357	-0.021	307075	913.1
Aroclor-1254	5	10.136	-0.054	372422	1097.8	5	10.565	-0.011	173653	1070.6
		Total Col1Ave (5 peaks):			727.3		Total Col2Ave (5 peaks):			809.0 RPD = 11
		Corrected Ave (4 peaks):			634.6		Corrected Ave (4 peaks):			743.7 RPD = 16
Aroclor-1260	1	11.044	-0.018	73727	434.0	1	11.655	-0.009	91963	519.2
Aroclor-1260	2	11.360	-0.018	54577	310.7	2	11.915	-0.011	143789	323.5
Aroclor-1260	3	11.729	-0.023	149767	324.4	3	12.434	-0.011	42298	357.4
Aroclor-1260	4	12.129	-0.029	81231	345.5	4	12.498	-0.011	96715	326.4
Aroclor-1260	5	12.244	-0.018	31508	327.4	NS	---			----
		Total Col1Ave (5 peaks):			348.4		Total Col2Ave (4 peaks):			381.6 RPD = 9
		Corrected Ave (4 peaks):			327.0		Corrected Ave (3 peaks):			335.7 RPD = 3
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.801) = 4478314 Col1 Total PCB = 1.0 ppm*

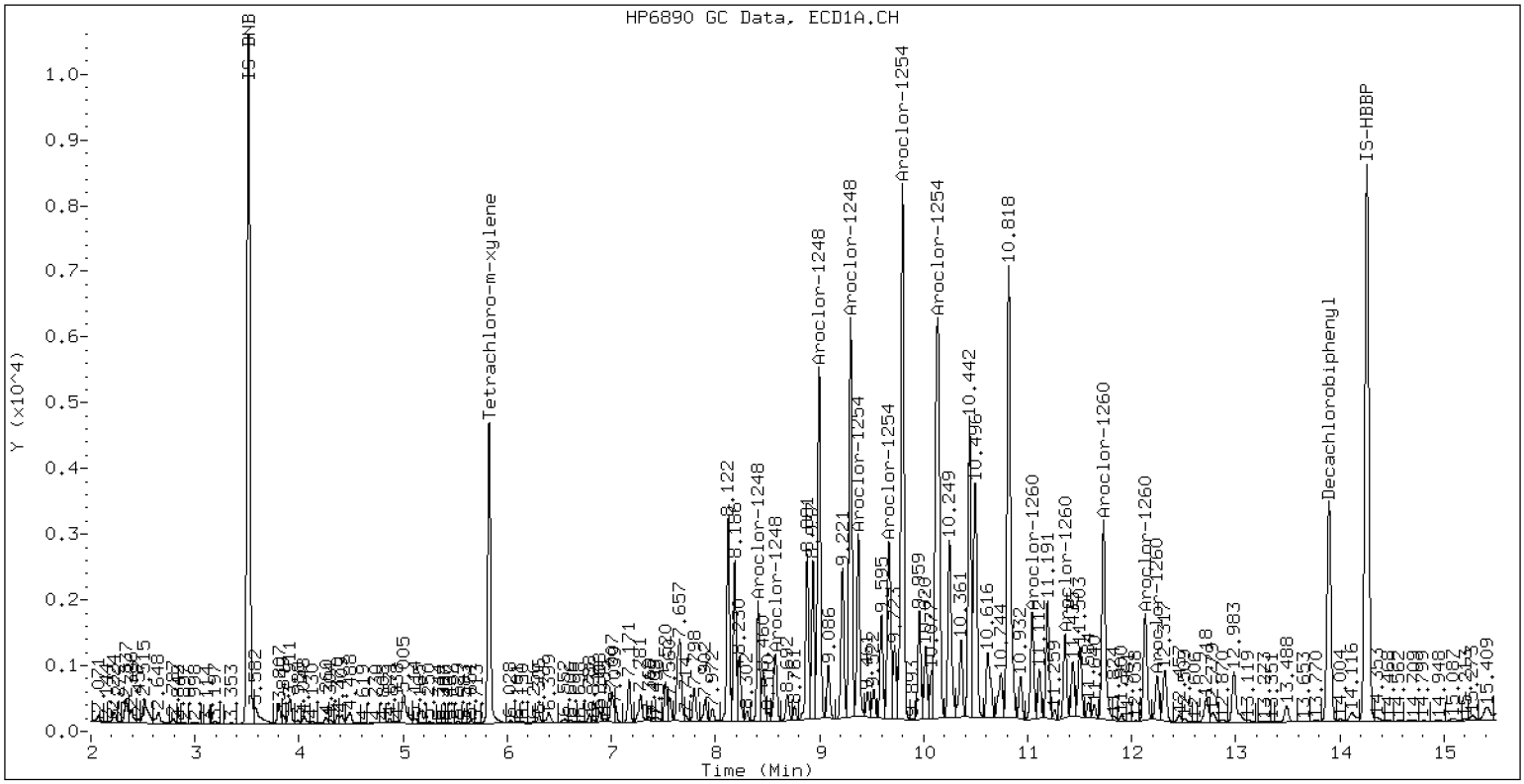
Total PCB Area Col2 (5.810 - 14.030) = 3580735 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

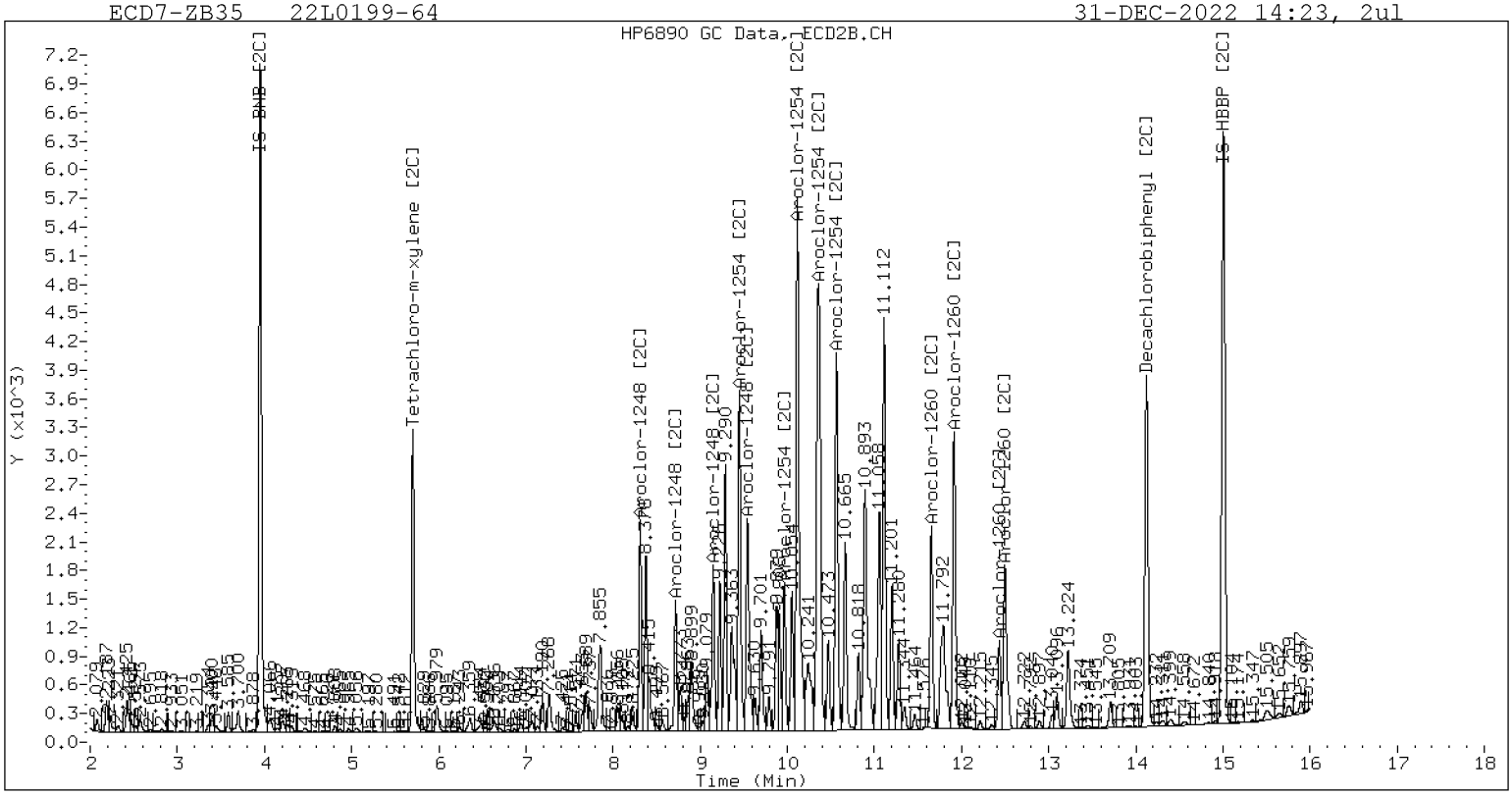
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-64 31-DEC-2022 14:23, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-64 31-DEC-2022 14:23, 2ul

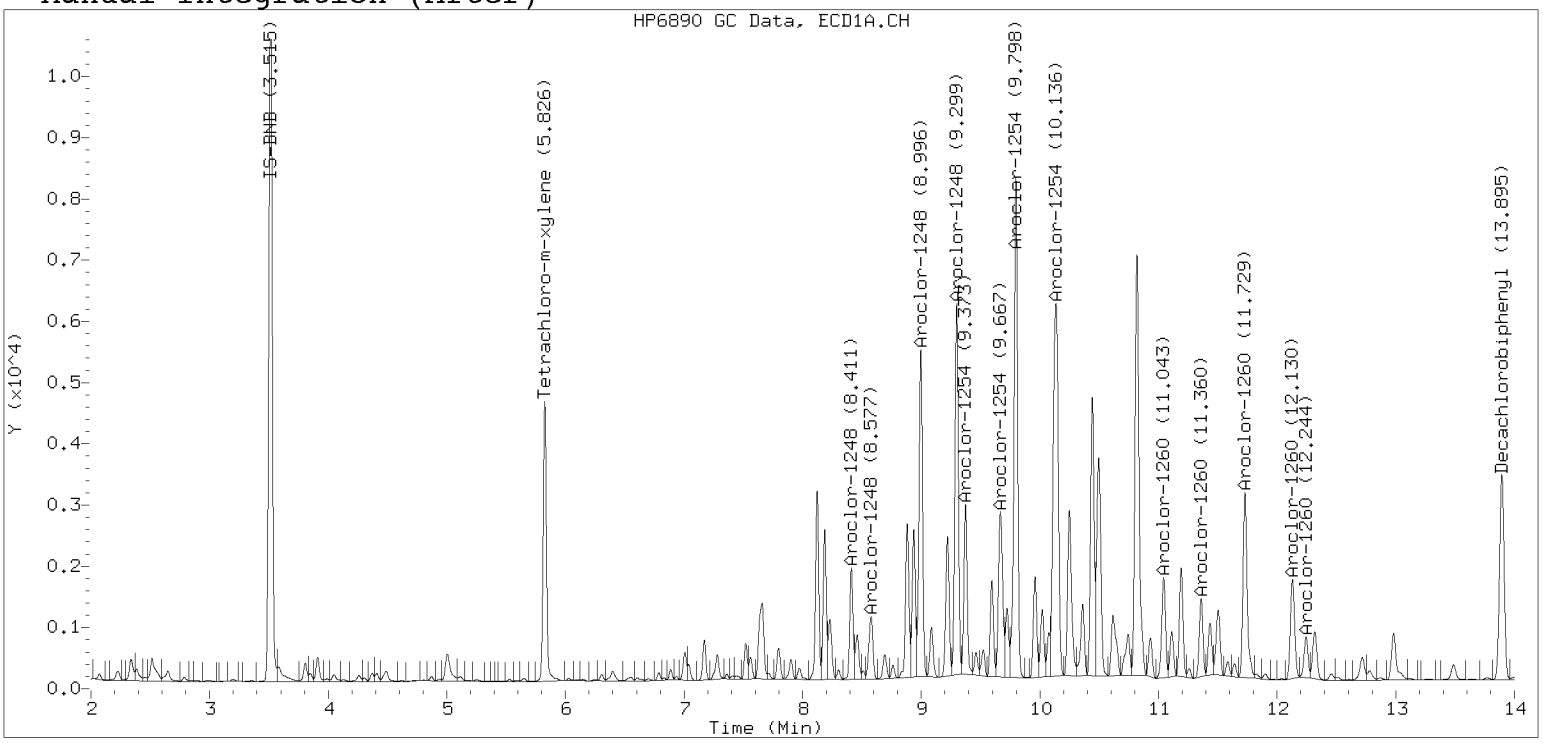


ZB-35 Manual Integration: YES

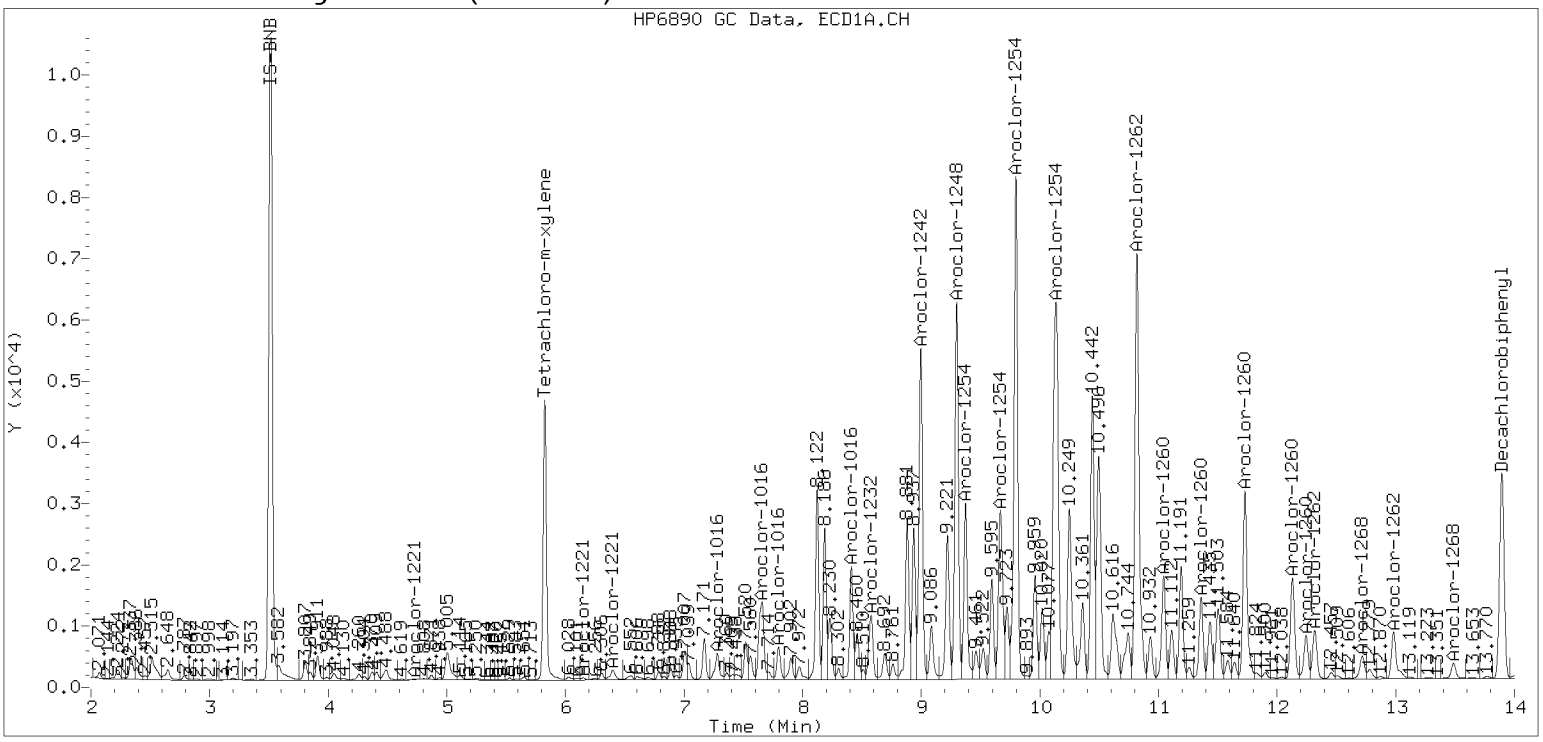
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312213ECD7.D Injection Date: 31-DEC-2022 14:23

Manual Integration (After)



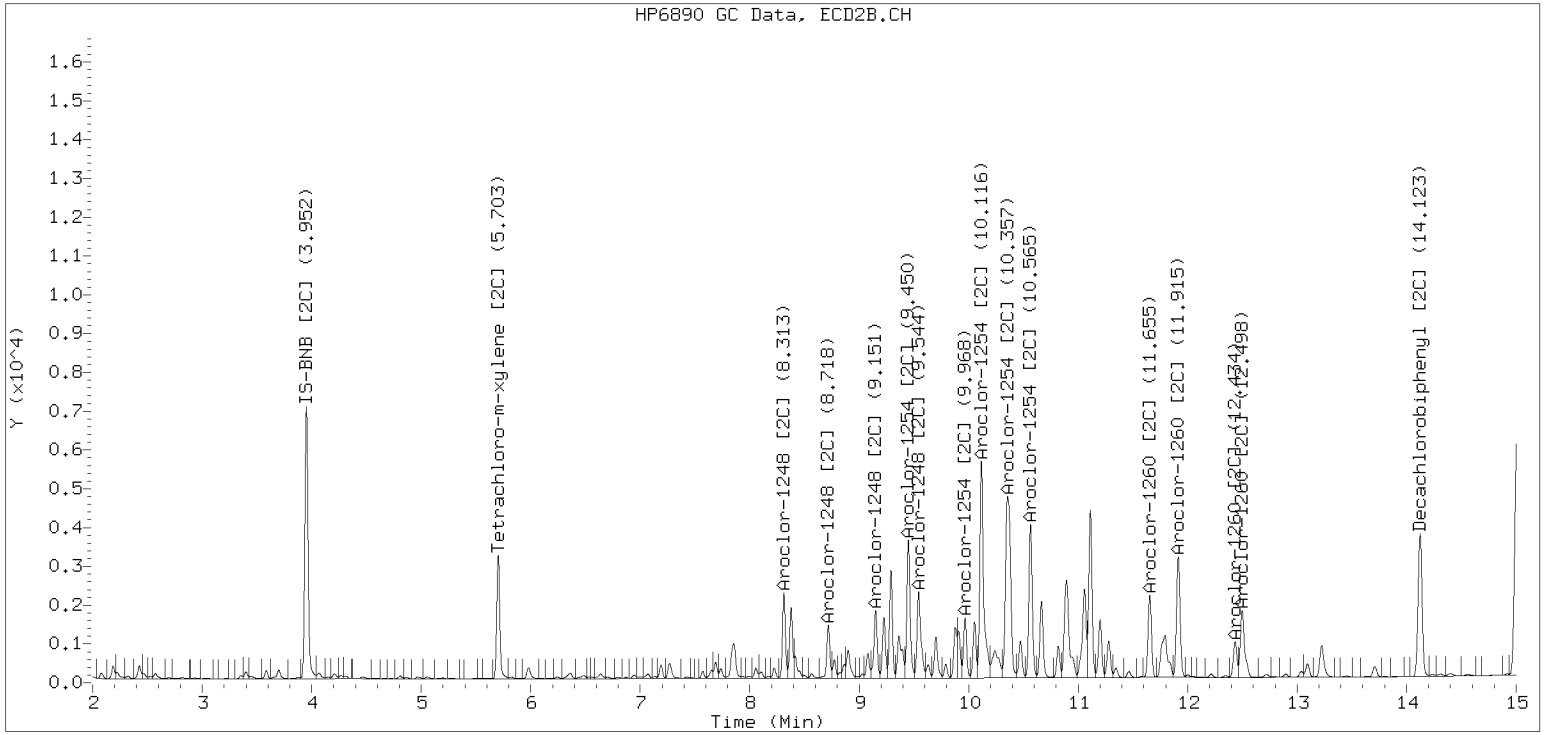
Processed Integration (Before)



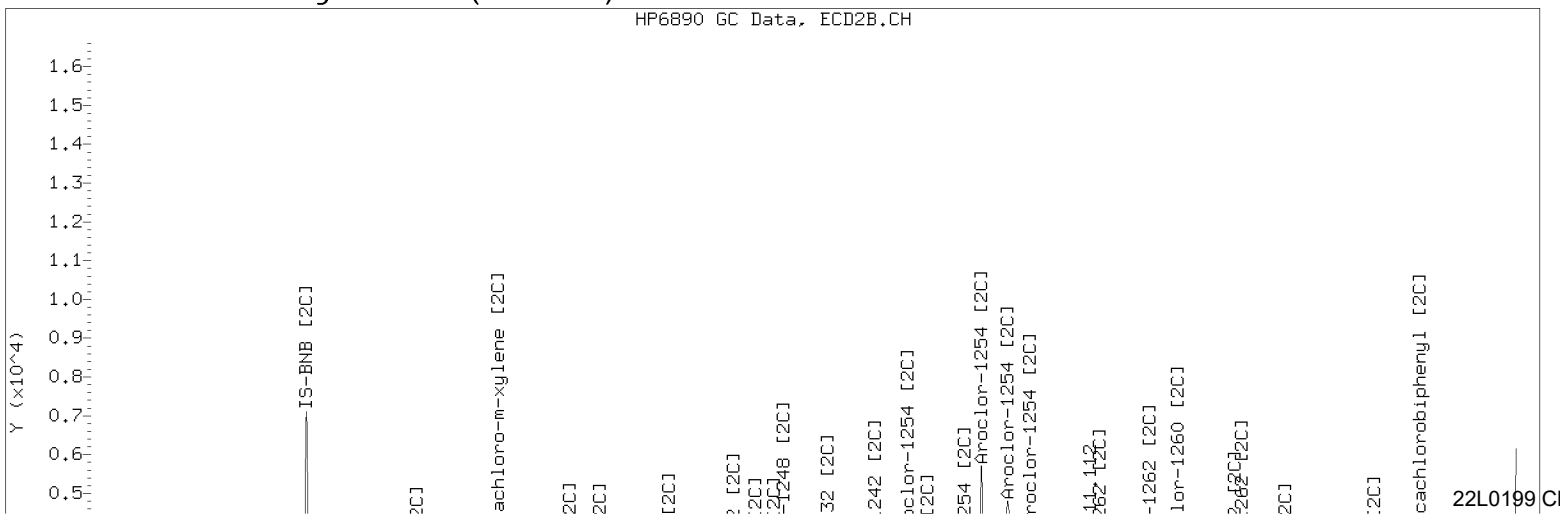
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312213ECD7.D Injection Date: 31-DEC-2022 14:23

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-65 B	File ID:	12312214ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 14:44
% Solids:	57.07	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.95 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	11.8	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	19.1	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	9.5	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9828*	*8.34*	*104*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9828*	*5.43*	*68.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9828*	*7.90*	*98.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9828*	*6.73*	*84.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312214ECD7.D
Data file 2: /221231.b/221231.b/12312214ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-65
Client ID:
Injection Date: 31-DEC-2022 14:44
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	169349	5.702	-0.008	129548	27.2	33.7	21.4	Tetrachloro-m-xylene
13.894	-0.007	161432	14.123	-0.006	177163	41.8	39.6	5.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	439425	-1.8
Hexabromobiphenyl	798898	421327	-47.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	280289	12.5
Hexabromobiphenyl	362541	315378	-13.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.411	-0.017	7682	40.7	1	8.312	-0.011	7251	63.3
Aroclor-1248	2	8.578	-0.026	5657	23.5	2	8.719	-0.010	5080	42.2
Aroclor-1248	3	8.996	-0.027	20653	47.6	3	9.149	-0.025	8093	55.2
Aroclor-1248	4	9.298	-0.013	26470	124.5	4	9.542	-0.053	12526	~~72.8~~
	Total Col1Ave (4 peaks):				59.1	Total Col2Ave (4 peaks):				~~58.4~~ RPD = 1
	Corrected Ave (3 peaks):				37.2	Corrected Ave (3 peaks):				53.6 RPD = 36
Aroclor-1254	1	9.298	-0.023	26470	68.4	1	9.449	-0.012	16434	90.9
Aroclor-1254	2	9.373	-0.029	12091	80.4	2	9.967	-0.012	8431	58.0
Aroclor-1254	3	9.667	-0.027	16215	66.4	3	10.115	-0.015	28240	90.4
Aroclor-1254	4	9.797	-0.034	34192	71.8	4	10.353	-0.025	33425	103.3
Aroclor-1254	5	10.132	-0.057	18539	~~56.8~~	5	10.565	-0.011	21112	135.3
	Total Col1Ave (5 peaks):				68.7	Total Col2Ave (5 peaks):				95.6 RPD = 33
	Corrected Ave (4 peaks):				65.8	Corrected Ave (4 peaks):				85.7 RPD = 26
					71.75					
Aroclor-1260	1	11.043	-0.019	8160	53.2	1	11.653	-0.010	10339	62.1
Aroclor-1260	2	11.360	-0.017	7318	46.1	2	11.914	-0.012	14734	35.3
Aroclor-1260	3	11.728	-0.023	16547	39.7	3	12.434	-0.011	5932	53.3
Aroclor-1260	4	12.128	-0.030	9799	46.2	4	12.496	-0.013	11051	39.7
Aroclor-1260	5	12.243	-0.018	4523	52.1	NS	---			----
	Total Col1Ave (5 peaks):				47.5	Total Col2Ave (4 peaks):				47.6 RPD = 0
	Corrected Ave (4 peaks):				46.0	Corrected Ave (3 peaks):				42.8 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.801) = 605031 Col1 Total PCB = 0.1 ppm*

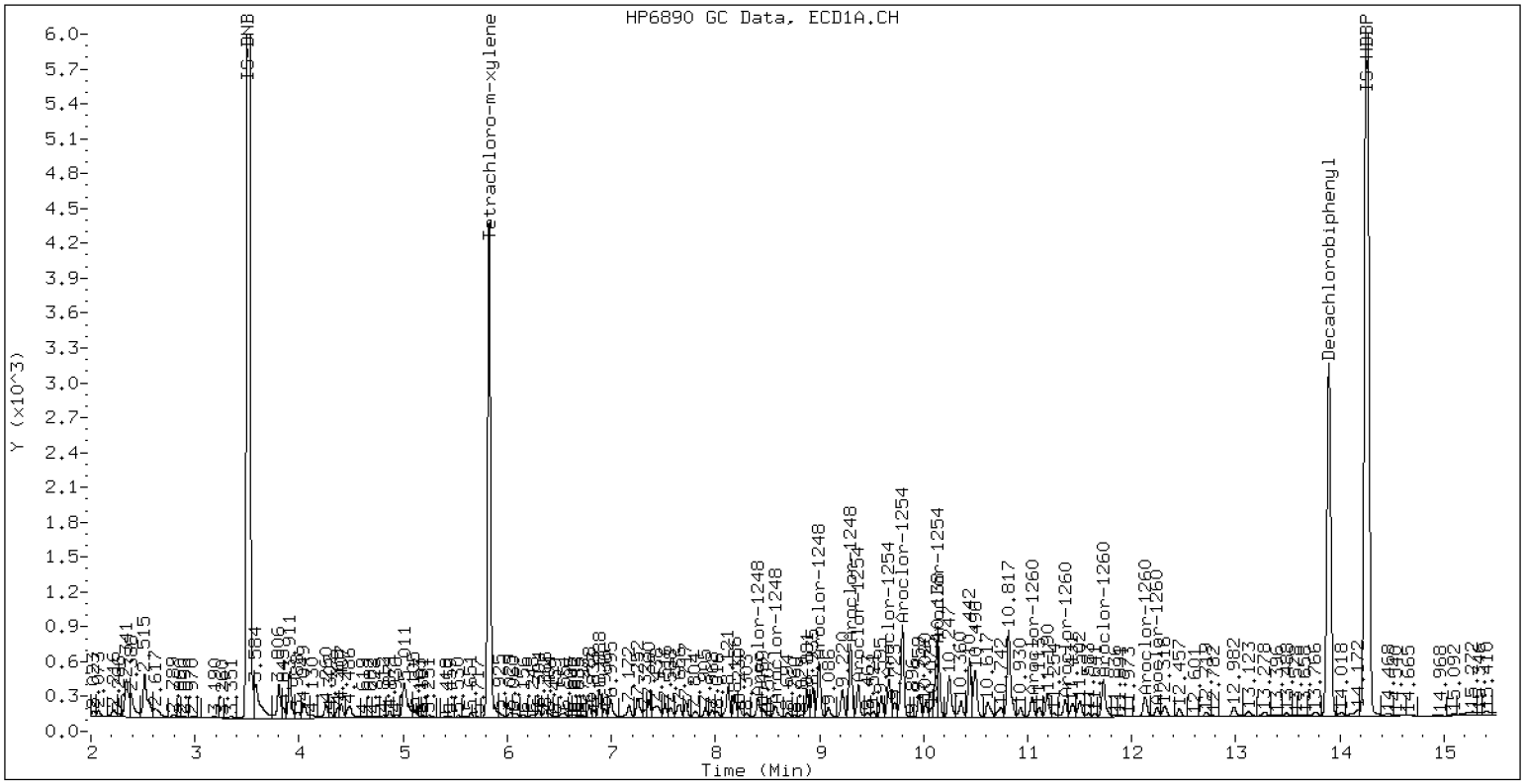
Total PCB Area Col2 (5.810 - 14.030) = 472424 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

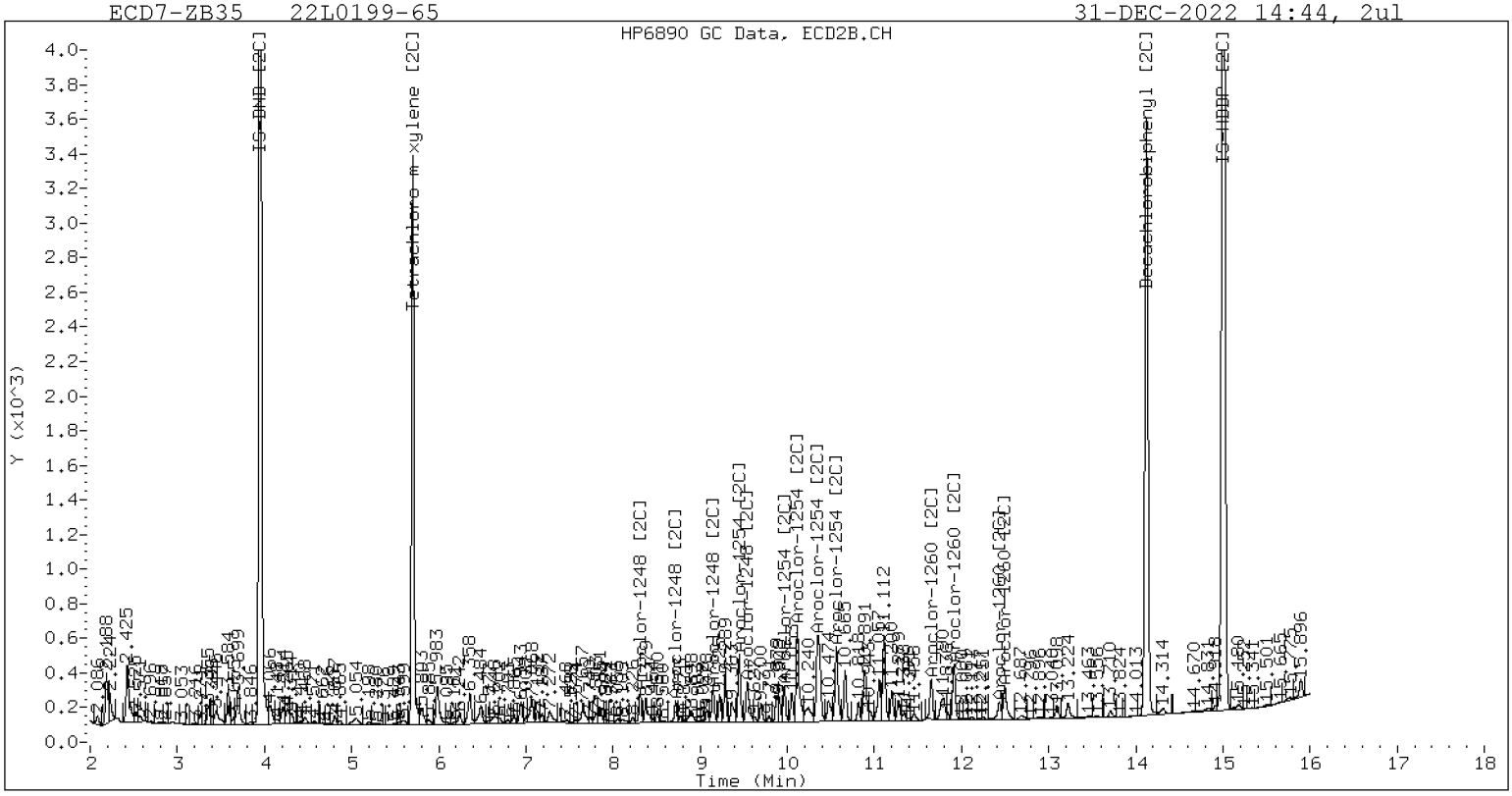
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-65 31-DEC-2022 14:44, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0199-65 31-DEC-2022 14:44, 2ul

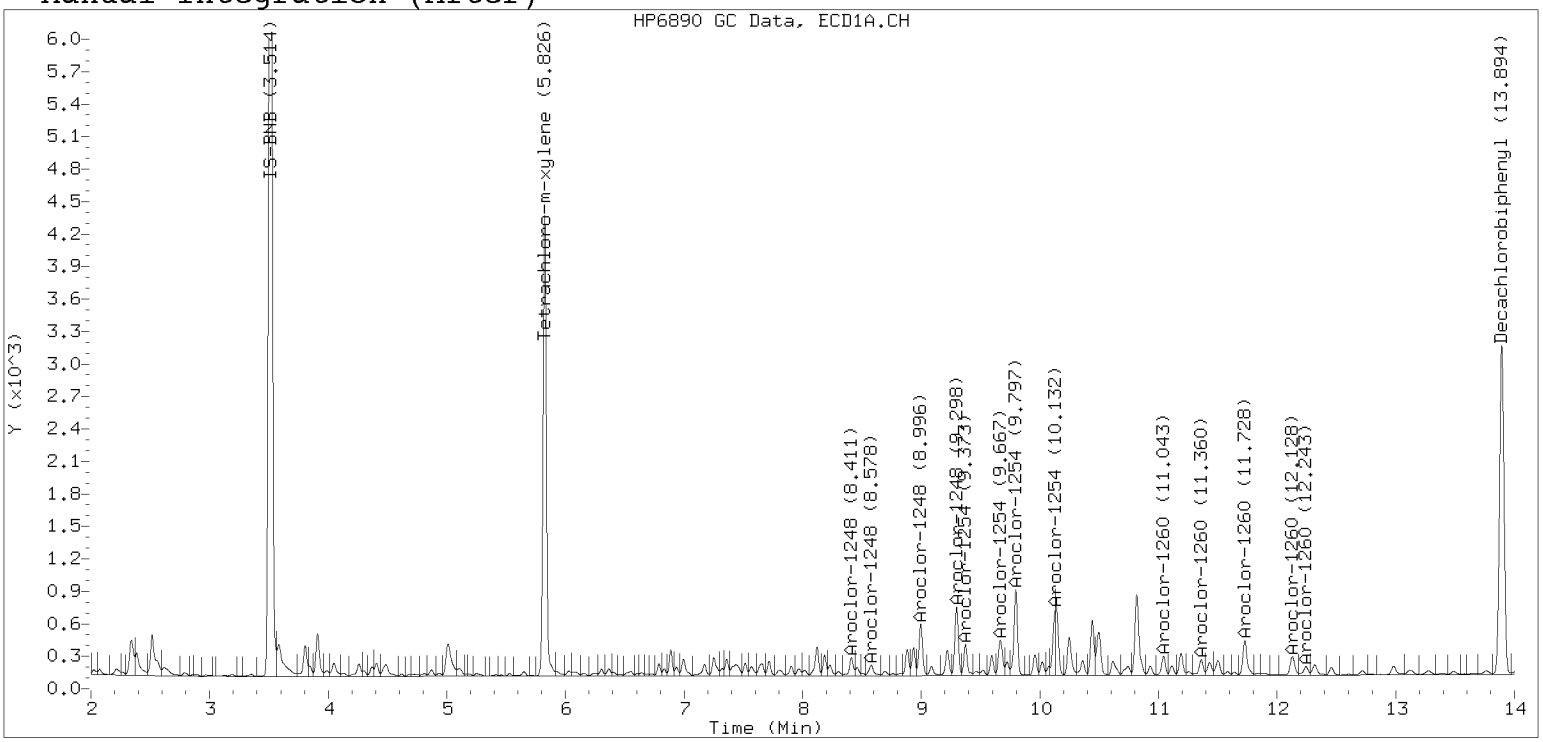


ZB-35 Manual Integration: YES

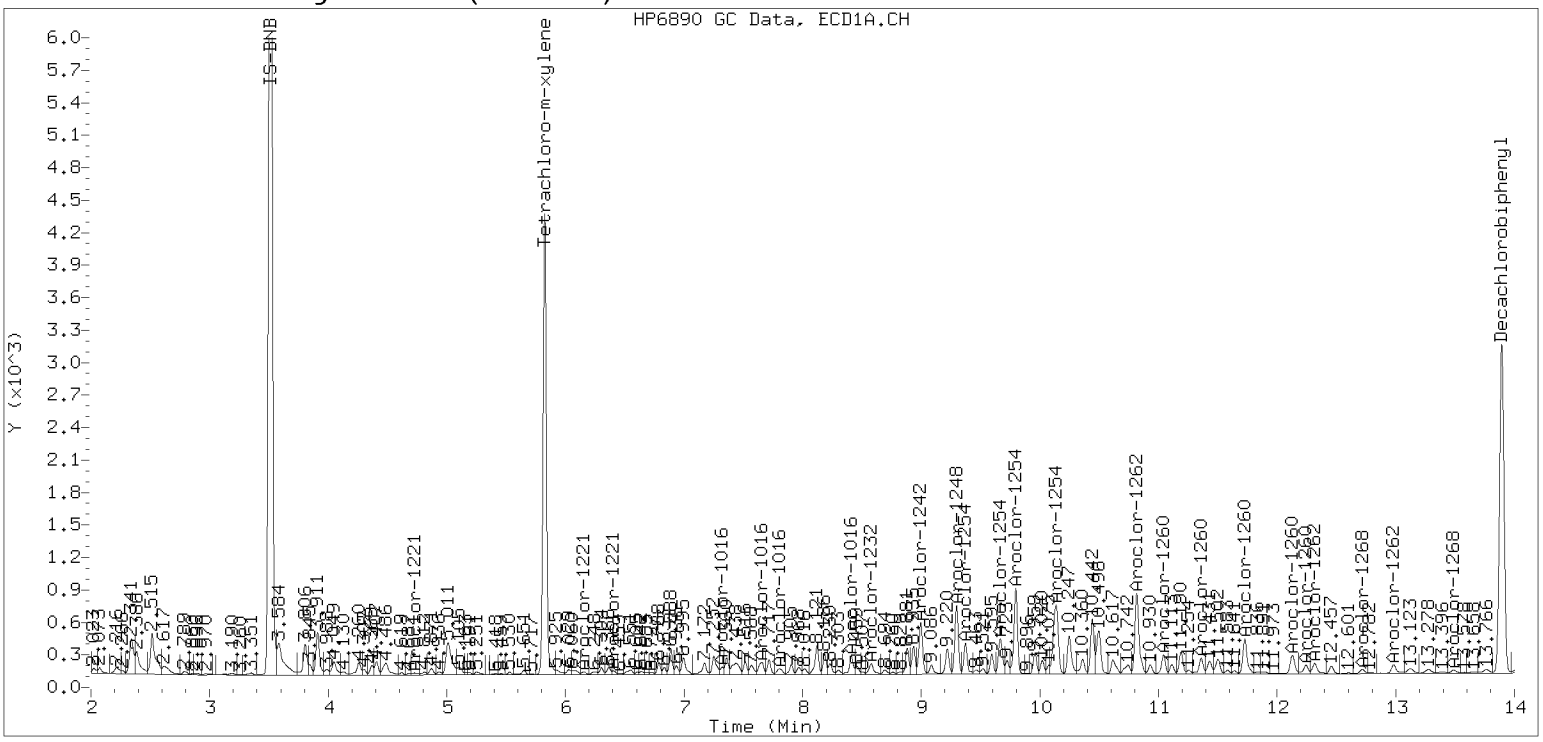
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312214ECD7.D Injection Date: 31-DEC-2022 14:44

Manual Integration (After)



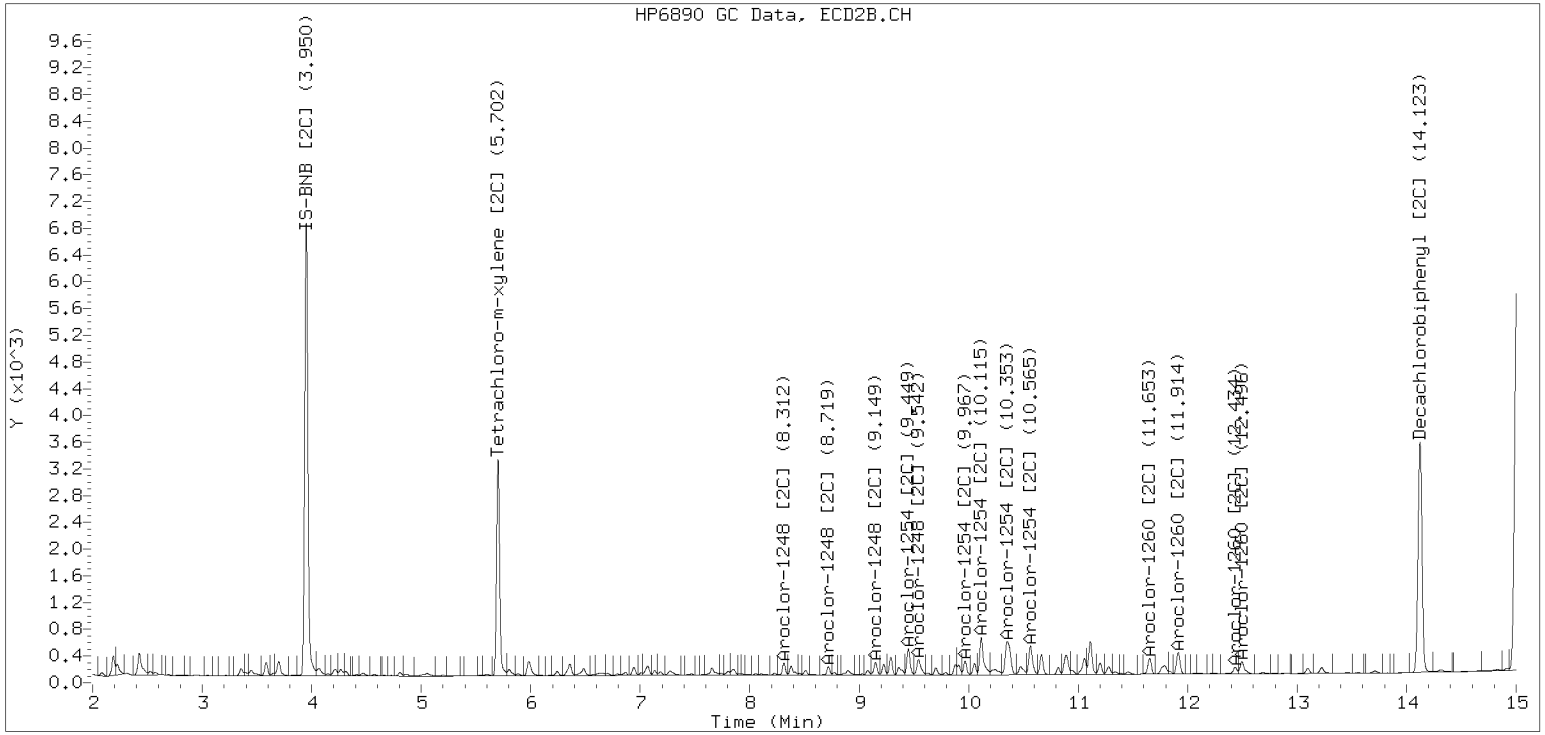
Processed Integration (Before)



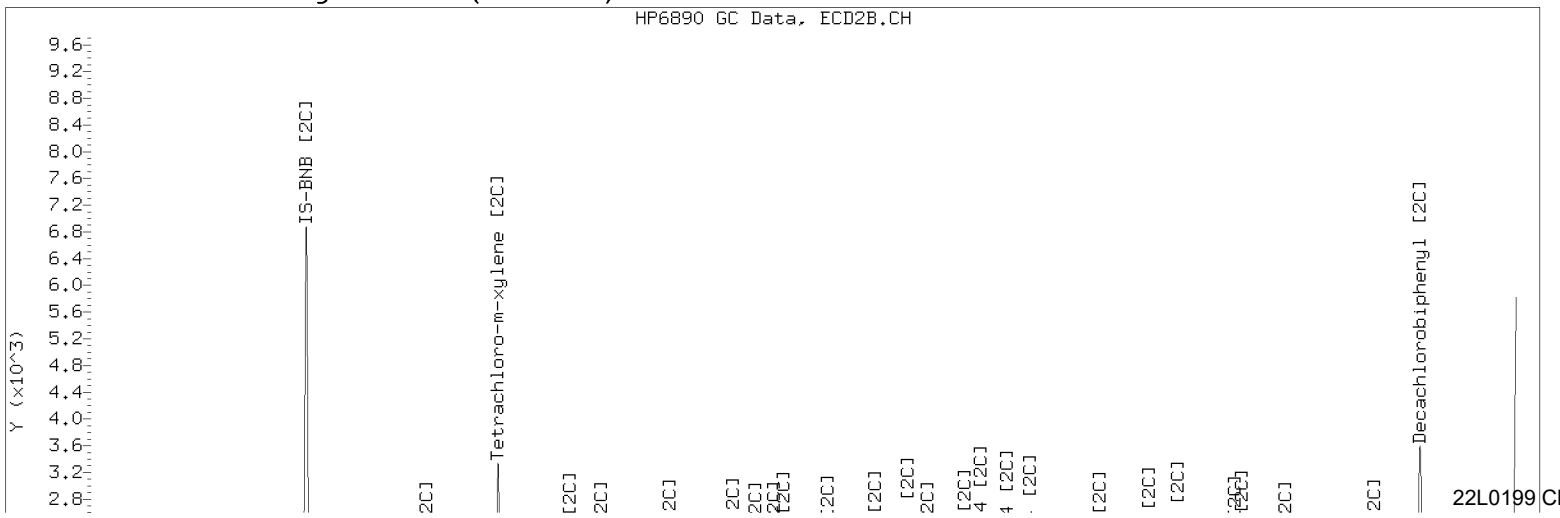
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221231.b/221231.b/12312214ECD7.D Injection Date: 31-DEC-2022 14:44

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-66 B	File ID:	12312215ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 15:05
% Solids:	62.19	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.11 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9959*	*8.88*	*111*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9959*	*6.31*	*78.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312215ECD7.D
Data file 2: /221231.b/221231.b/12312215ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-66
Client ID:
Injection Date: 31-DEC-2022 15:05
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	195461	5.703	-0.007	146474	31.5	37.4	17.0	Tetrachloro-m-xylene
13.895	-0.006	191742	14.123	-0.007	203054	44.4	41.2	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	437184	-2.3
Hexabromobiphenyl	798898	470696	-41.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	285509	14.6
Hexabromobiphenyl	362541	346746	-4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.801) = 109451 Col1 Total PCB = 0.0 ppm*

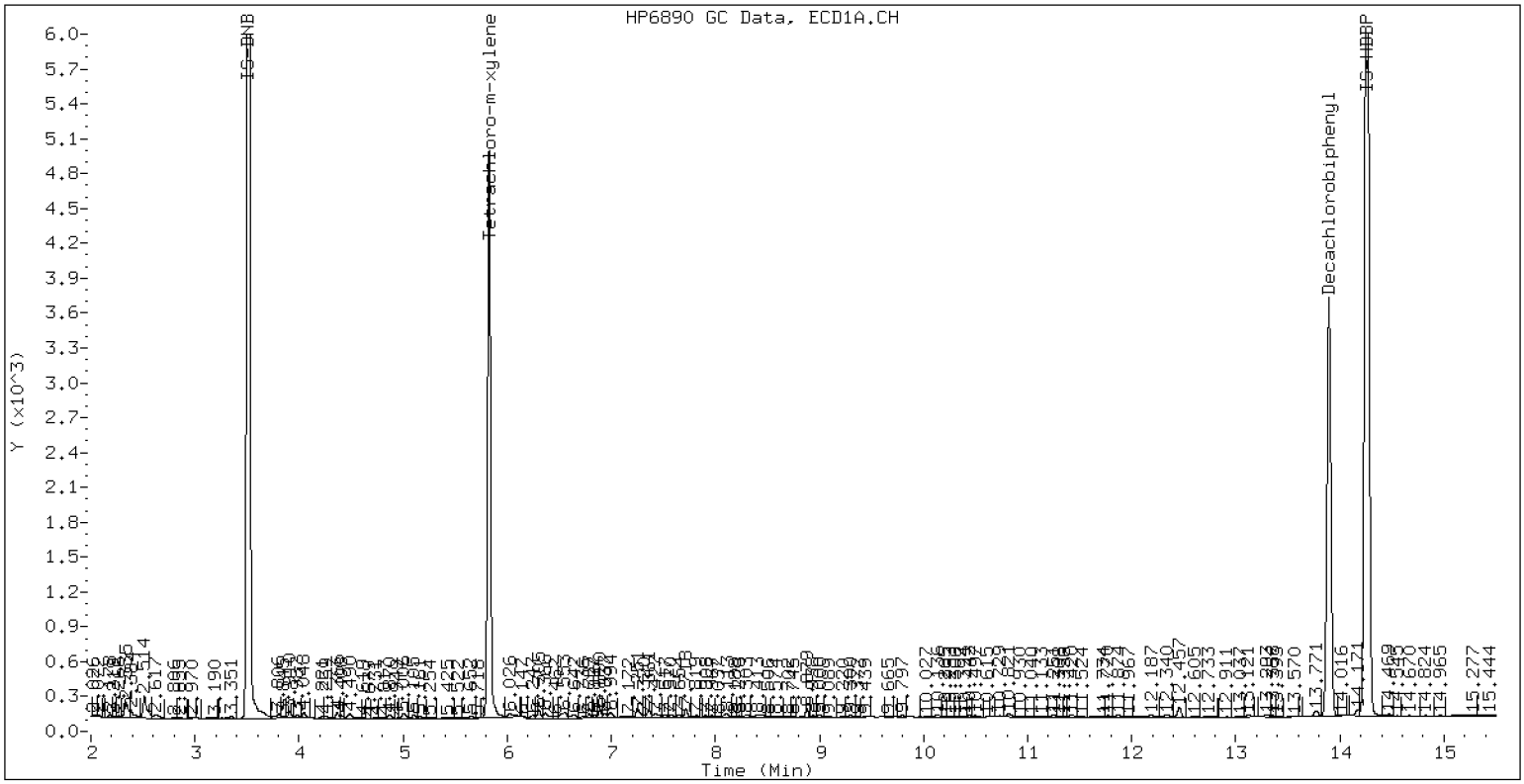
Total PCB Area Col2 (5.810 - 14.030) = 76806 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

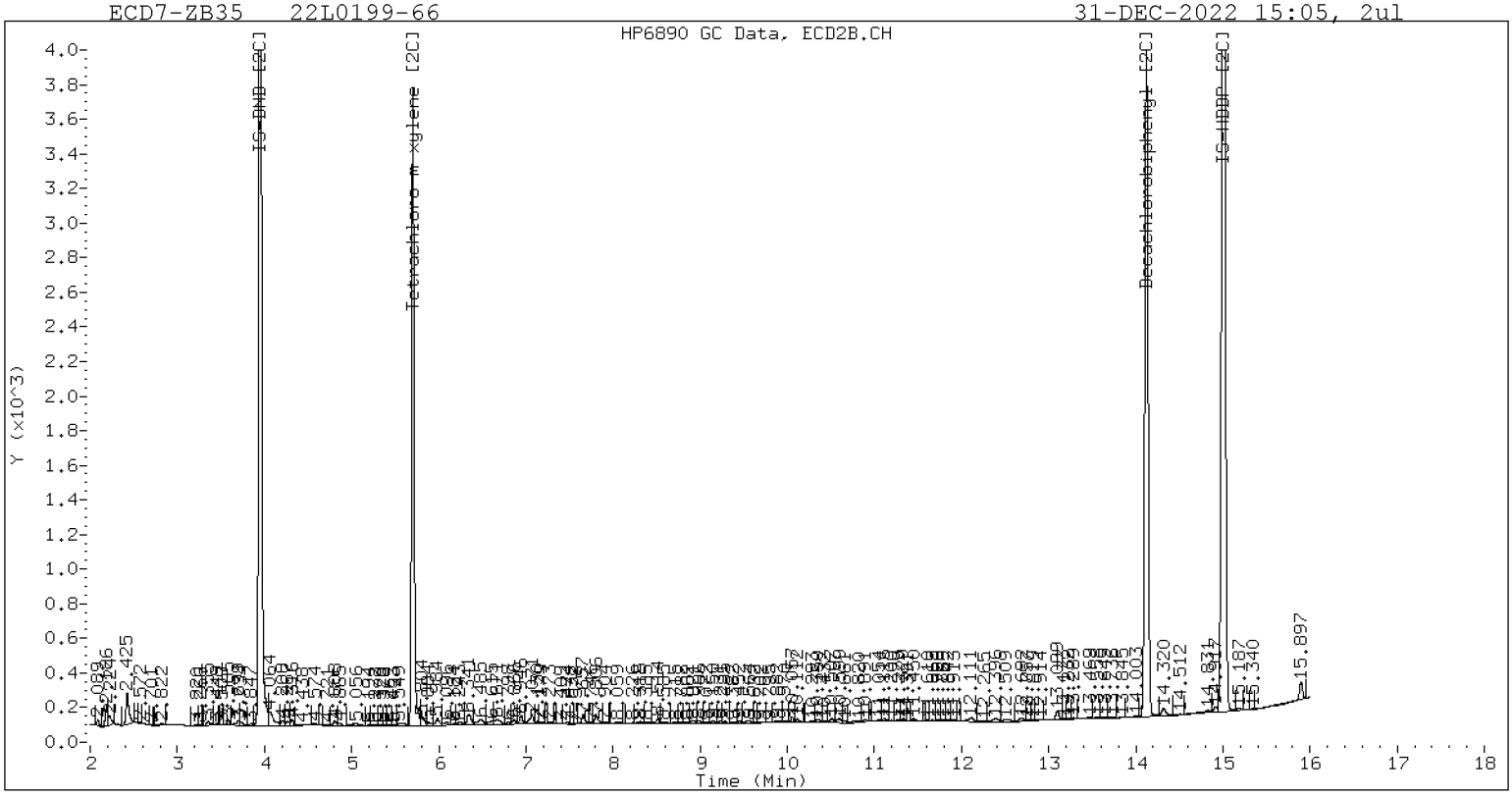
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-66 31-DEC-2022 15:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-66 31-DEC-2022 15:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-67 B	File ID:	12312216ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 15:26
% Solids:	63.33	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.76 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9910*	*8.18*	*102*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9910*	*5.80*	*72.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312216ECD7.D
Data file 2: /221231.b/221231.b/12312216ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-67
Client ID:
Injection Date: 31-DEC-2022 15:26
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.005	181623	5.704	-0.006	134740	29.0	34.7	17.7	Tetrachloro-m-xylene
13.895	-0.006	161964	14.123	-0.007	176121	40.9	37.9	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	441839	-1.3
Hexabromobiphenyl	798898	431507	-46.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	283639	13.9
Hexabromobiphenyl	362541	327264	-9.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.801) = 94323 Col1 Total PCB = 0.0 ppm*

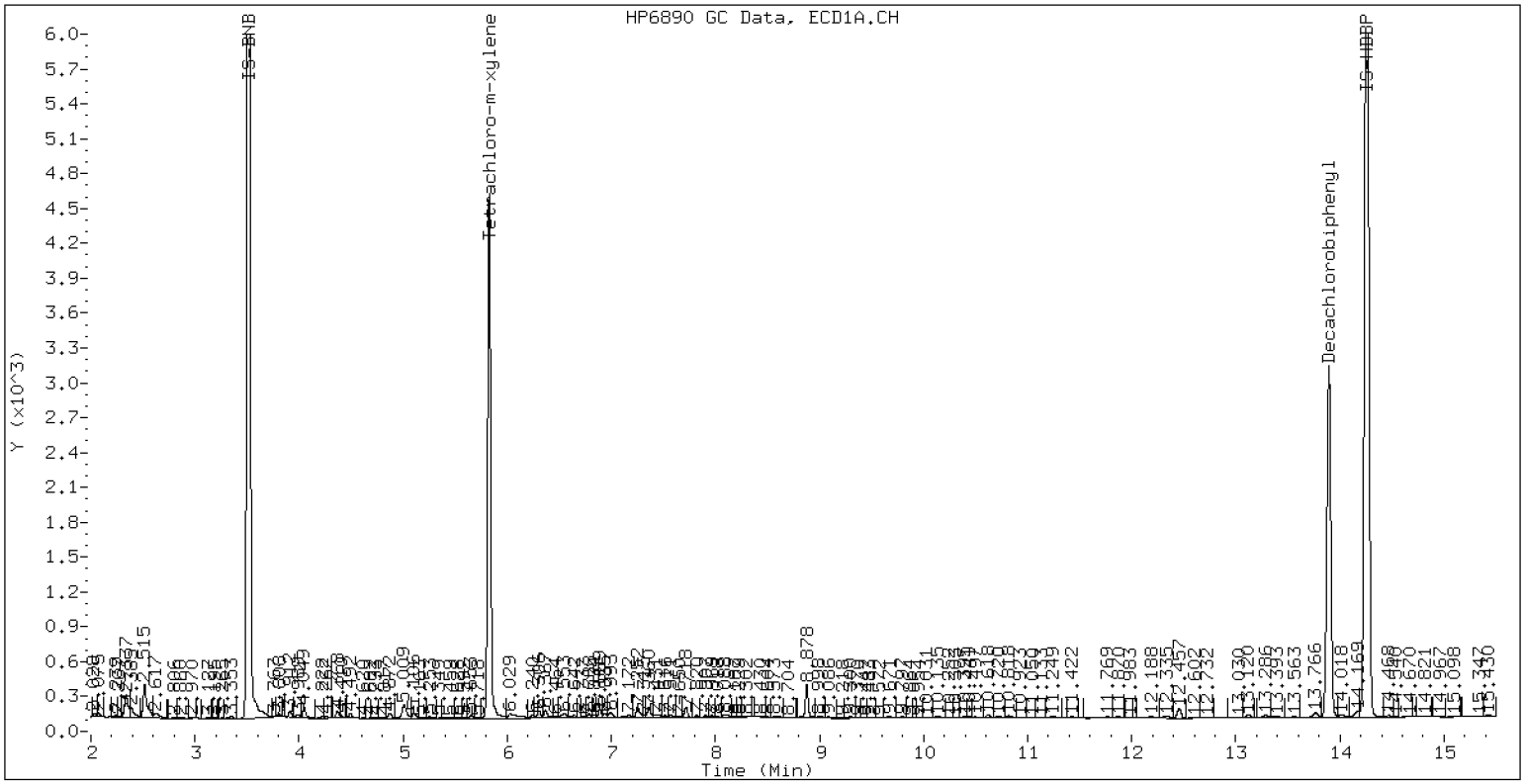
Total PCB Area Col2 (5.810 - 14.030) = 85737 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

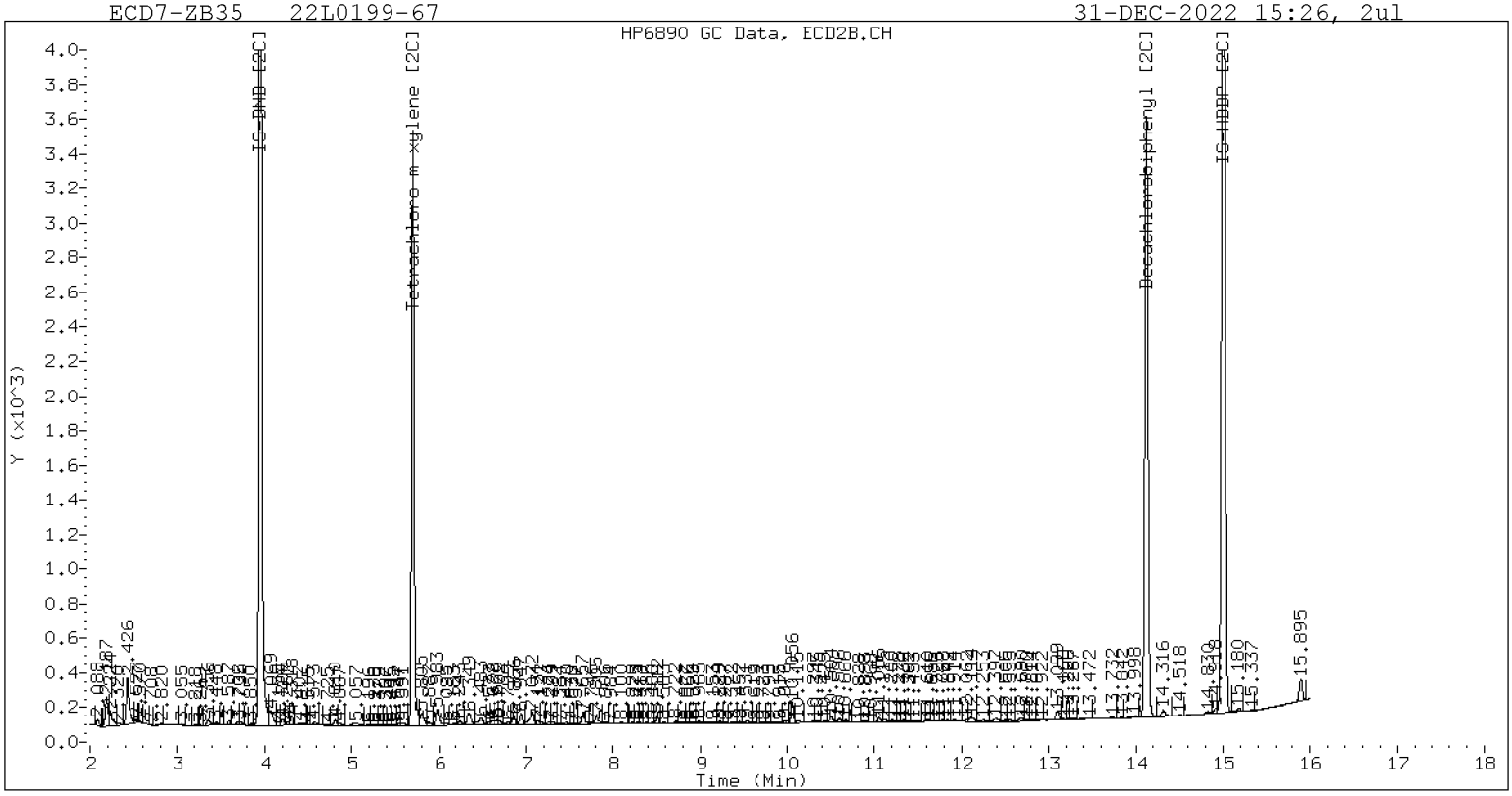
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-67 31-DEC-2022 15:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-67 31-DEC-2022 15:26, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-68 B	File ID:	12312217ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 15:47
% Solids:	62.80	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.9 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0018*	*8.75*	*109*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0018*	*6.19*	*77.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312217ECD7.D
Data file 2: /221231.b/221231.b/12312217ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-68
Client ID:
Injection Date: 31-DEC-2022 15:47
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.005	194322	5.704	-0.006	140980	30.9	36.7	16.9	Tetrachloro-m-xylene
13.895	-0.006	175250	14.124	-0.006	189780	43.7	40.8	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	443189	-1.0
Hexabromobiphenyl	798898	437260	-45.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	280619	12.7
Hexabromobiphenyl	362541	327654	-9.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.801) = 130649 Col1 Total PCB = 0.0 ppm*

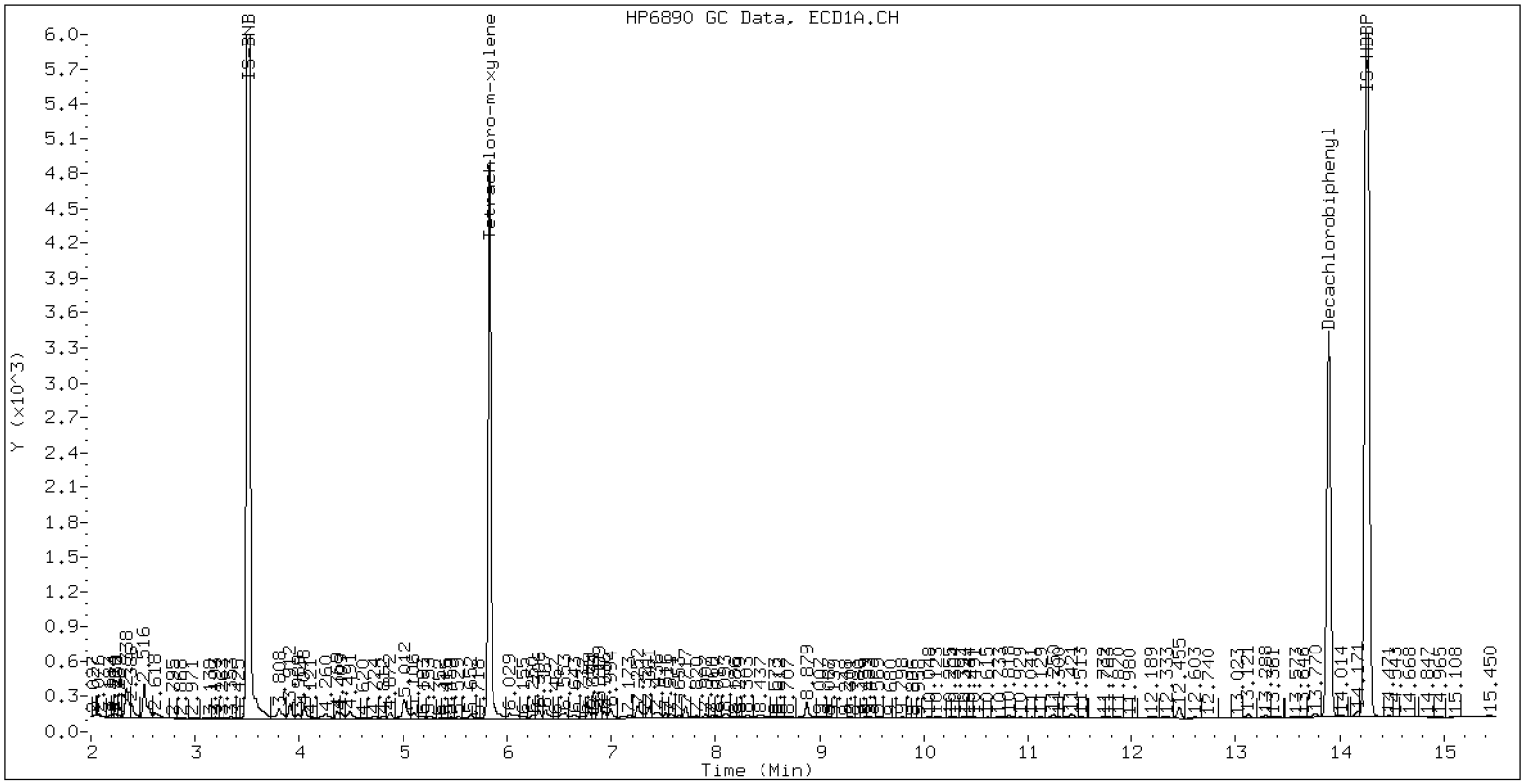
Total PCB Area Col2 (5.810 - 14.030) = 79673 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

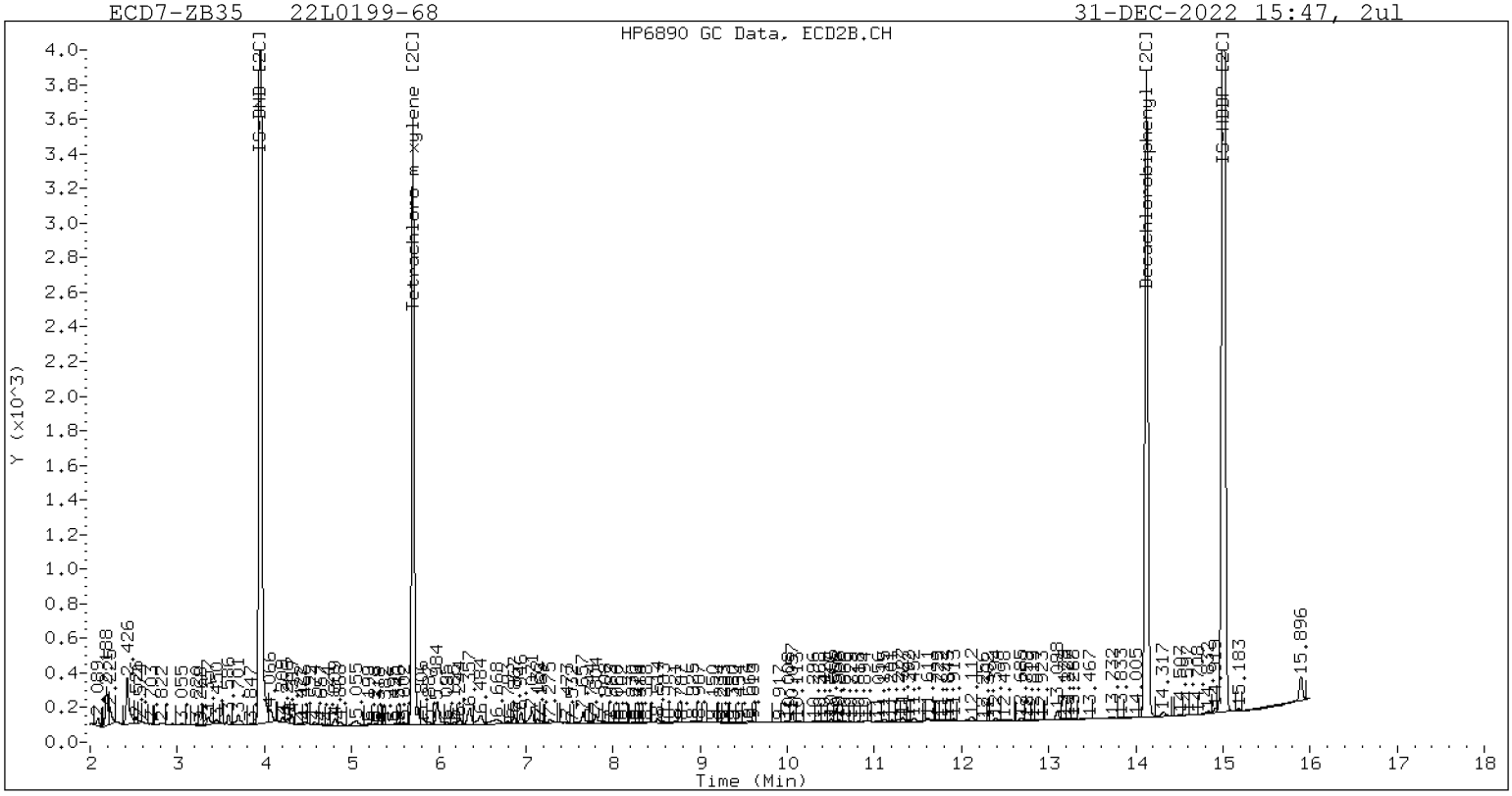
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-68 31-DEC-2022 15:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-68 31-DEC-2022 15:47, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-69 B	File ID:	12312218ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 16:08
% Solids:	63.62	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.72 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9708*	*8.56*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9708*	*6.25*	*78.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312218ECD7.D
Data file 2: /221231.b/221231.b/12312218ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-69
Client ID:
Injection Date: 31-DEC-2022 16:08
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.004	197939	5.705	-0.005	142061	31.4	35.5	12.2	Tetrachloro-m-xylene
13.896	-0.005	191139	14.124	-0.006	201233	42.9	39.4	8.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	445051	-0.6
Hexabromobiphenyl	798898	485594	-39.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	292144	17.3
Hexabromobiphenyl	362541	359337	-0.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.801) = 189603 Col1 Total PCB = 0.0 ppm*

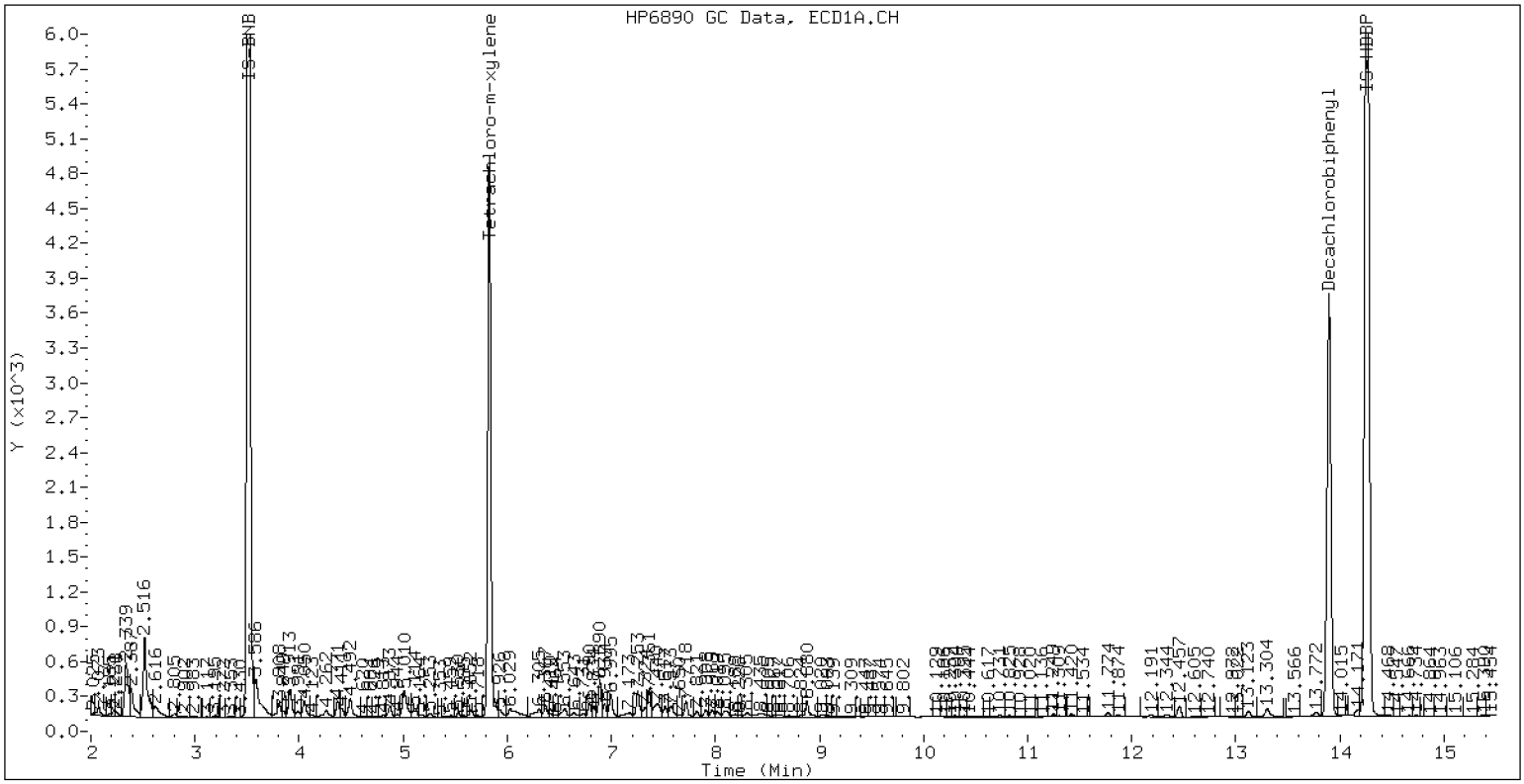
Total PCB Area Col2 (5.810 - 14.030) = 121856 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

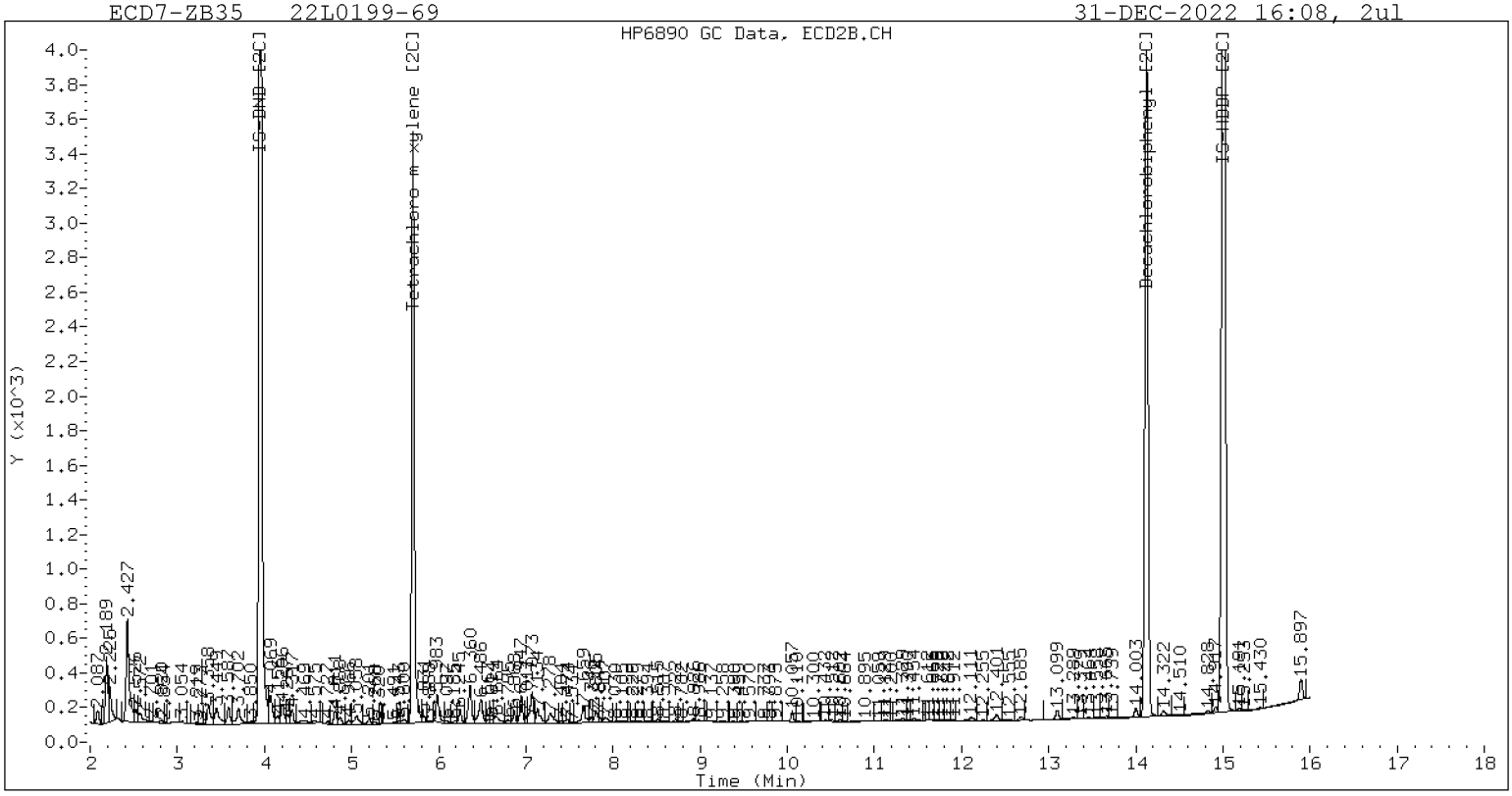
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-69 31-DEC-2022 16:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-69 31-DEC-2022 16:08, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC758K

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0199-70 B	File ID:	12312219ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 16:29
% Solids:	67.19	Preparation:	EPA 3546 (Microwave)	Initial/Final:	18.64 g Wet / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9845*	*8.56*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9845*	*6.50*	*81.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312219ECD7.D
Data file 2: /221231.b/221231.b/12312219ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0199-70
Client ID:
Injection Date: 31-DEC-2022 16:29
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	216170	5.703	-0.007	150749	32.5	36.4	11.3	Tetrachloro-m-xylene
13.895	-0.006	186550	14.124	-0.006	197636	42.9	39.5	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	468794	4.7
Hexabromobiphenyl	798898	474721	-40.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301940	21.2
Hexabromobiphenyl	362541	352616	-2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.801) = 243351 Col1 Total PCB = 0.1 ppm*

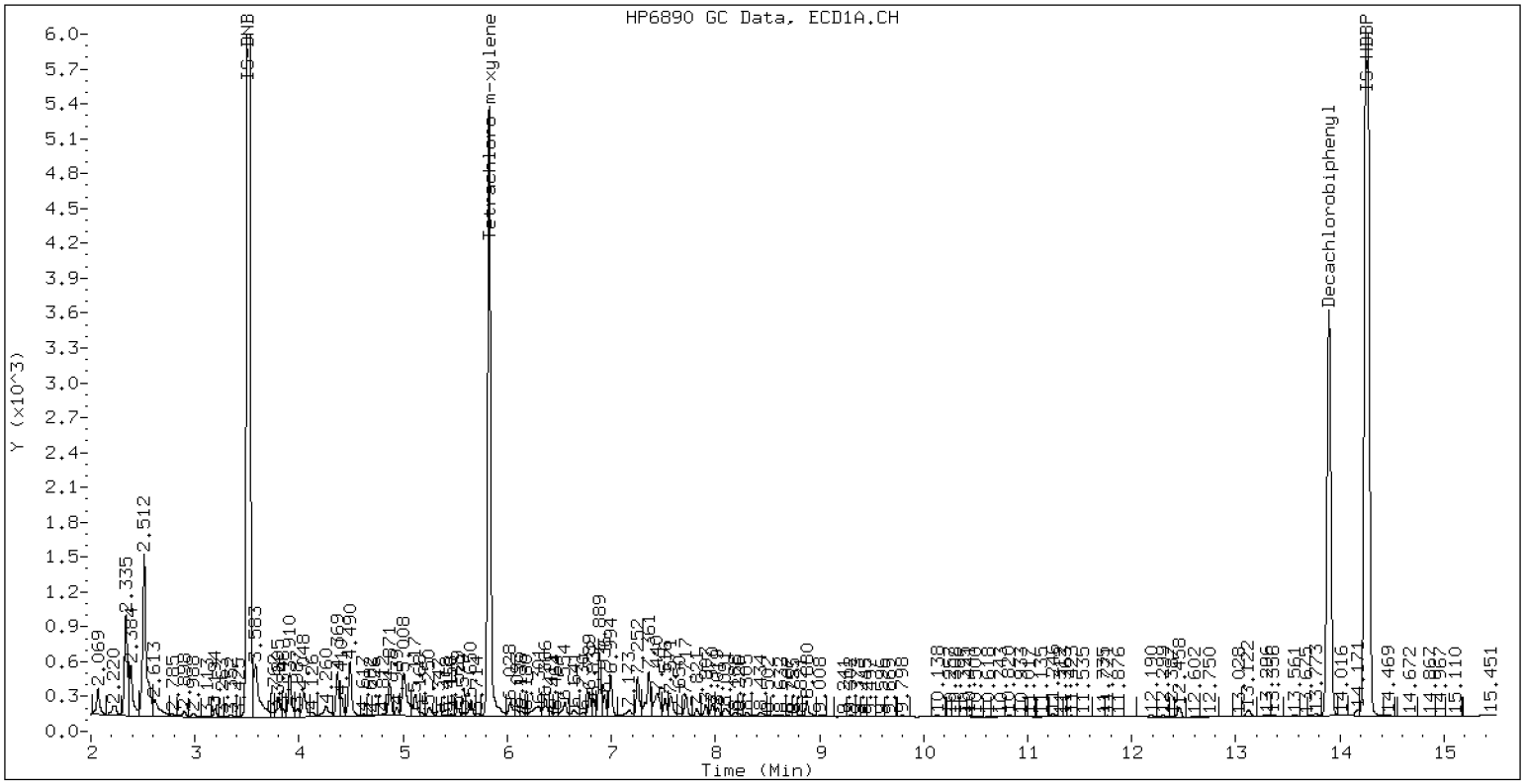
Total PCB Area Col2 (5.810 - 14.030) = 173504 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

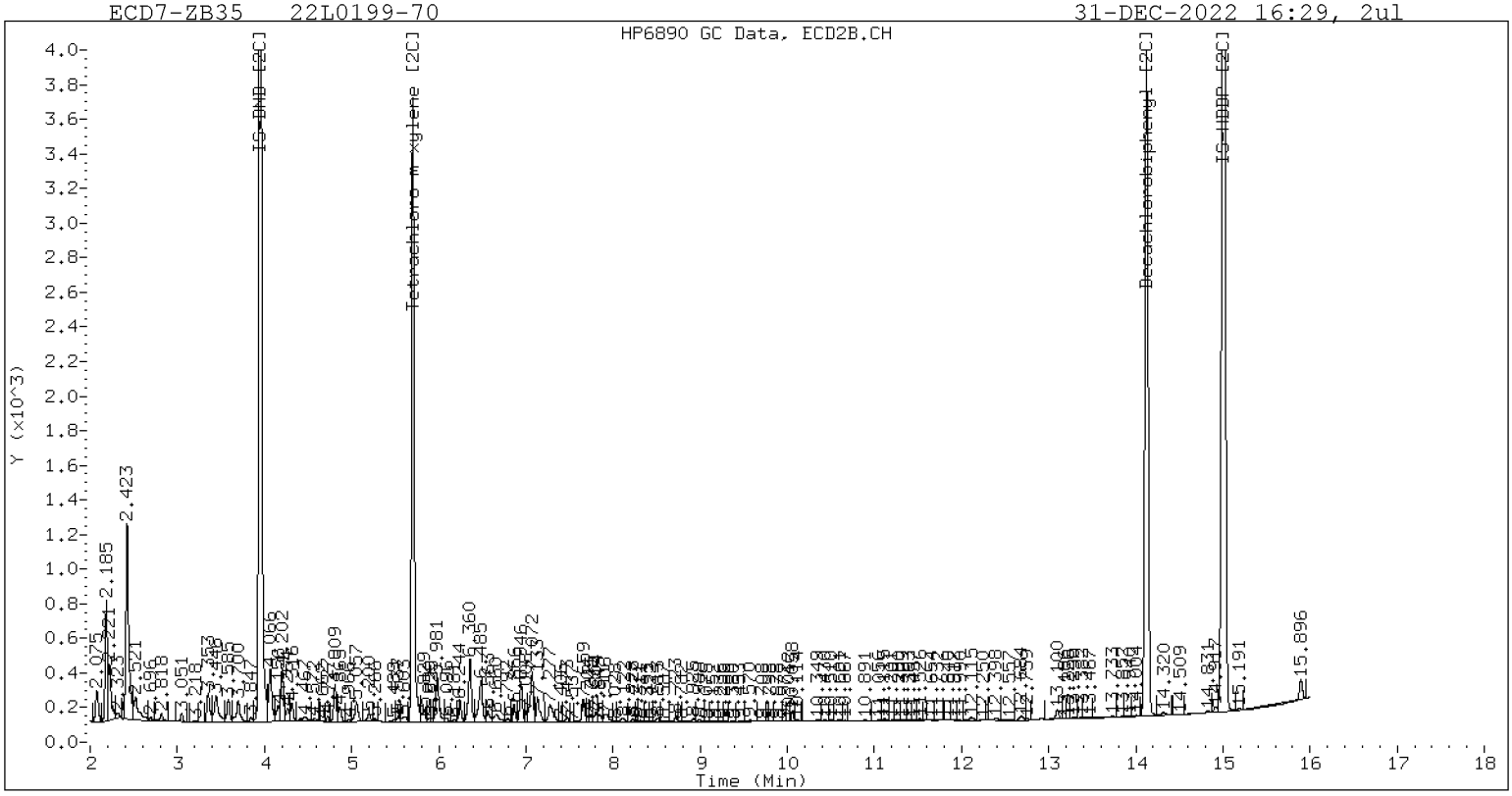
PCB Dual Column Chromatograms

ECD7-ZB5 22L0199-70 31-DEC-2022 16:29, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0199-70 31-DEC-2022 16:29, 2ul



ZB-35 Manual Integration: NO

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0401 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC762A	22L0199-01	12292241ECD7.D	12/16/22 18:57	
LDW22-SC762B	22L0199-02	12292242ECD7.D	12/16/22 18:57	
LDW22-SC762C	22L0199-03	12292243ECD7.D	12/16/22 18:57	
LDW22-SC762D	22L0199-04	12312252ECD7.D	12/16/22 18:57	
LDW22-SC762E	22L0199-05	12272253ECD7.D	12/16/22 18:57	
LDW22-SC762F	22L0199-06	12272254ECD7.D	12/16/22 18:57	
LDW22-SC762G	22L0199-07	01042307ECD7.D	12/16/22 18:57	
LDW22-SC762H	22L0199-08	12272256ECD7.D	12/16/22 18:57	
LDW22-SC762I	22L0199-09	12292248ECD7.D	12/16/22 18:57	
LDW22-SC762J	22L0199-10	12272258ECD7.D	12/16/22 18:57	
LDW22-IT789F	22L0199-11	12272261ECD7.D	12/16/22 18:57	
LDW22-IT789G	22L0199-12	12272262ECD7.D	12/16/22 18:57	
LDW22-IT789H	22L0199-13	12292249ECD7.D	12/16/22 18:57	
LDW22-IT789I	22L0199-14	12272264ECD7.D	12/16/22 18:57	
LDW22-IT789I-FD	22L0199-15	12292250ECD7.D	12/16/22 18:57	
LDW22-IT789J	22L0199-16	12272266ECD7.D	12/16/22 18:57	
LDW22-IT789K	22L0199-17	12272267ECD7.D	12/16/22 18:57	
LDW22-IT789L	22L0199-18	12272268ECD7.D	12/16/22 18:57	
LDW22-IT790I	22L0199-19	12272269ECD7.D	12/16/22 18:57	
LDW22-IT790J	22L0199-20	12272270ECD7.D	12/16/22 18:57	
Blank	BKL0401-BLK1	12272241ECD7.D	12/16/22 18:57	
LCS	BKL0401-BS1	12272242ECD7.D	12/16/22 18:57	
LCS Dup	BKL0401-BSD1	12272243ECD7.D	12/16/22 18:57	
LDW22-IT789G	BKL0401-MS1	12272245ECD7.D	12/16/22 18:57	
LDW22-IT789G	BKL0401-MSD1	12292240ECD7.D	12/16/22 18:57	
Reference	BKL0401-SRM1	12272244ECD7.D	12/16/22 18:57	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0401

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid Date Prepared: 12/16/22 Balance ID: B139298##2 Set Up By: GTO 12/15/22

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0199-01 B	54.9	(22.76)	22.80	5mL	5mL	2mL	2.5	1.0	
22L0199-02 B	56.8	(22.02)	22.05	5mL	5mL	2mL	2.5	1.0	
22L0199-03 B	55.7	(22.44)	22.57	5mL	5mL	2mL	2.5	1.0	
22L0199-04 B	57.1	(21.90)	22.05	5mL	5mL	2mL	2.5	1.0	
22L0199-05 B	71.3	(17.54)	17.77	5mL	5mL	2mL	2.5	1.0	
22L0199-06 B	75.4	(16.58)	16.64	5mL	5mL	2mL	2.5	1.0	
22L0199-07 B	69.0	(18.12)	18.44	5mL	5mL	2mL	2.5	1.0	
22L0199-08 B	64.7	(19.33)	19.57	5mL	5mL	2mL	2.5	1.0	
22L0199-09 B	65.3	(19.13)	19.33	5mL	5mL	2mL	2.5	1.0	
22L0199-10 B	62.6	(19.98)	20.16	5mL	5mL	2mL	2.5	1.0	
22L0199-11 B	88.9	(14.05)	14.18	5mL	5mL	2mL	2.5	1.0	
22L0199-12 B	90.5	(13.81)	13.94	5mL	5mL	2mL	2.5	1.0	
22L0199-13 B	86.3	(14.49)	14.65	5mL	5mL	2mL	2.5	1.0	
22L0199-14 B	87.2	(14.33)	14.44	5mL	5mL	2mL	2.5	1.0	
22L0199-15 B	86.6	(14.44)	14.54	5mL	5mL	2mL	2.5	1.0	
22L0199-16 B	85.5	(14.63)	14.75	5mL	5mL	2mL	2.5	1.0	
22L0199-17 B	87.4	(14.30)	14.37	5mL	5mL	2mL	2.5	1.0	
22L0199-18 B	80.8	(15.47)	15.53	5mL	5mL	2mL	2.5	1.0	
22L0199-19 B	86.5	(14.45)	14.61	5mL	5mL	2mL	2.5	1.0	
22L0199-20 B	83.2	(15.03)	15.18	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0401-BLK1	100.0	(12.50)	12.54	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0401-BS1	100.0	(12.50)	12.54	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0401-BSD1	100.0	(12.50)	12.54	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0401-MS1	90.5	(13.81)	13.94	5mL	5mL	2mL	2.5	1.0	Use 22L0199-12
BKL0401-MSD1	90.5	(13.81)	13.94	5mL	5mL	2mL	2.5	1.0	Use 22L0199-12
BKL0401-SRM1	100.0	~~(12.50)~~ (2.50)	2.54	5mL	5mL	2mL	2.5	1.0	Use K003525

+1g DI WATER

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0401

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Client ID verified By	Date	Preparation Reviewed By	Date	Extraction Date and Time
SH	12/16/22	TWC	12/22/22	12/16/22 18:57

Printed: 12/15/2022 12:50:34PM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0401

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 2 **3**
12/17/22
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
(1) 1 2 3 4 (5) 6
LJ 12/21/22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
LJ 12/22/22
Analyst/Date

TurboVap
Post Cleanups
1 (2) 3 4 5
TWC 12/22/22
Analyst/Date

Vialing
TWC 12/22/22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave **Analyst:** **Date:** 12/17/22	
Neutral Glass Wool	KΦ11285
1:1 Hexane/Acetone	KΦ11389
Hexane	KΦ11373
Anhydrous Sodium Sulfate	KΦ11562
KD **Analyst:** LJ **Date:** 12/21/22	
Anhydrous Sodium Sulfate	N/A
Hexane	KO 11373
Vialing **Analyst:** LJ/TWC **Date:** 12/22/22	
Hexane	KO11373
Concentrated Sulfuric Acid	KO 10364
Silica Gel (SPE) Darts	KO11573
Sodium Sulfite	KW3744
Tetrabutylammonium hydrogensulfate (TBAS)	KO11530, KO10832

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K010600 (V) Exp Date: 1/23/2023	50µL	CT	V
Spike 20µg/mL	1 K008150 Exp Date: 3/5/2023	63µL	CT	V

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0401

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PCB Extraction Batch BK10401

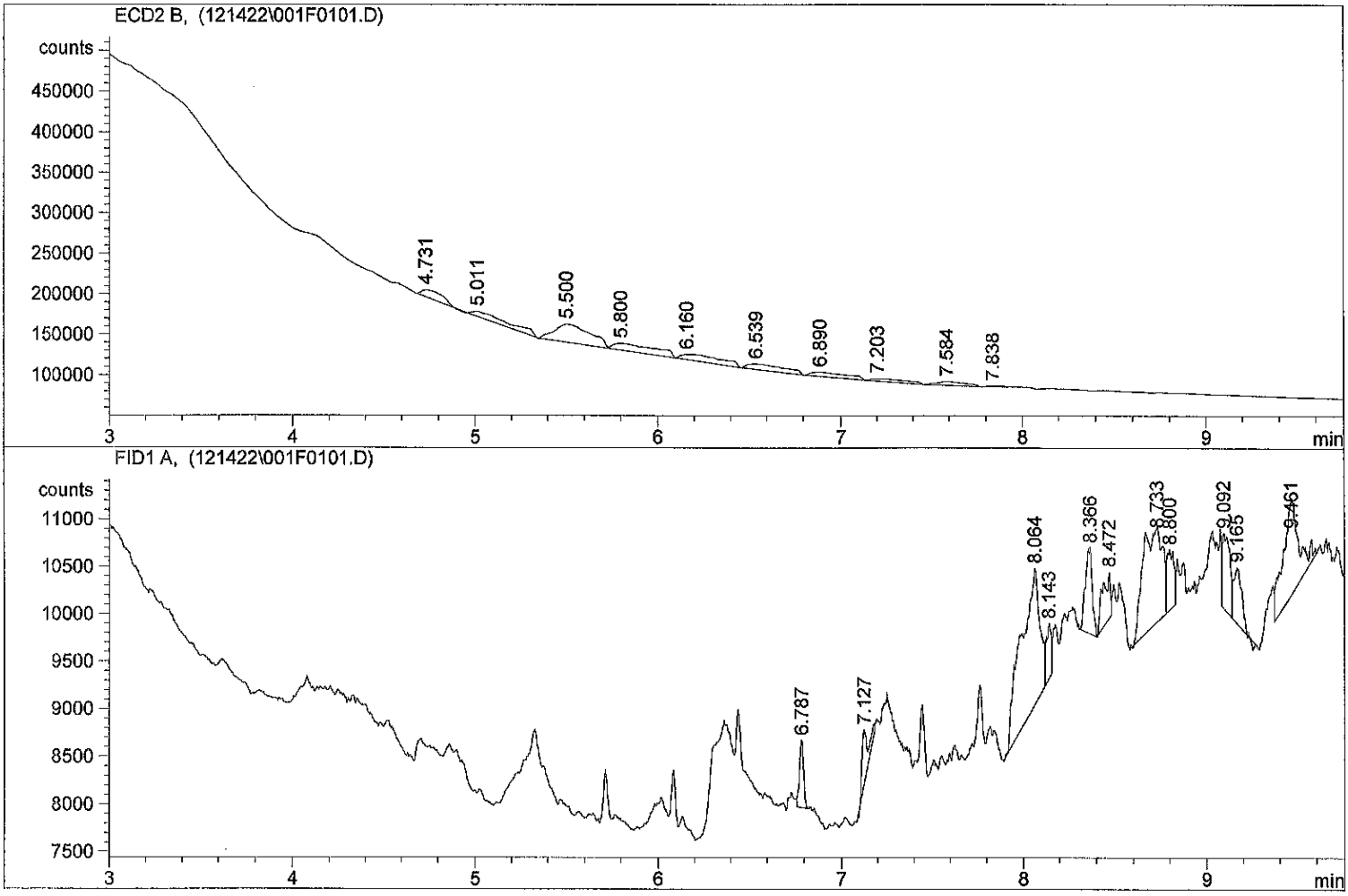
Total Solids Batch: BK10340 Work Order(s): 22L0199 01-20

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 01-03, 06-20	CR 12/14/2022
☒ Standing Water Decanted (Not shared)= 01-03, 05-07, 10	CR 12/14/2022
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☒ Oily, obvious fuel/sulfur odors= 04, 05	CR 12/14/2022
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / (N)	CR 12/14/2022
☒ Multiple Jars Y / (N)	CR 12/14/2022
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Data File C:\HPCHEM\1\DATA\121422\001F0101.D Sample Name: DCM RINSE

Injection Date : 12/14/2022 4:56:34 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

```
Injection Date  : 12/14/2022 5:09:14 PM        Seq. Line :   2
Sample Name     : PNA STD 10PPM                 Location : Vial 2
Acq. Operator   : CR                               Inj :   1
                                              Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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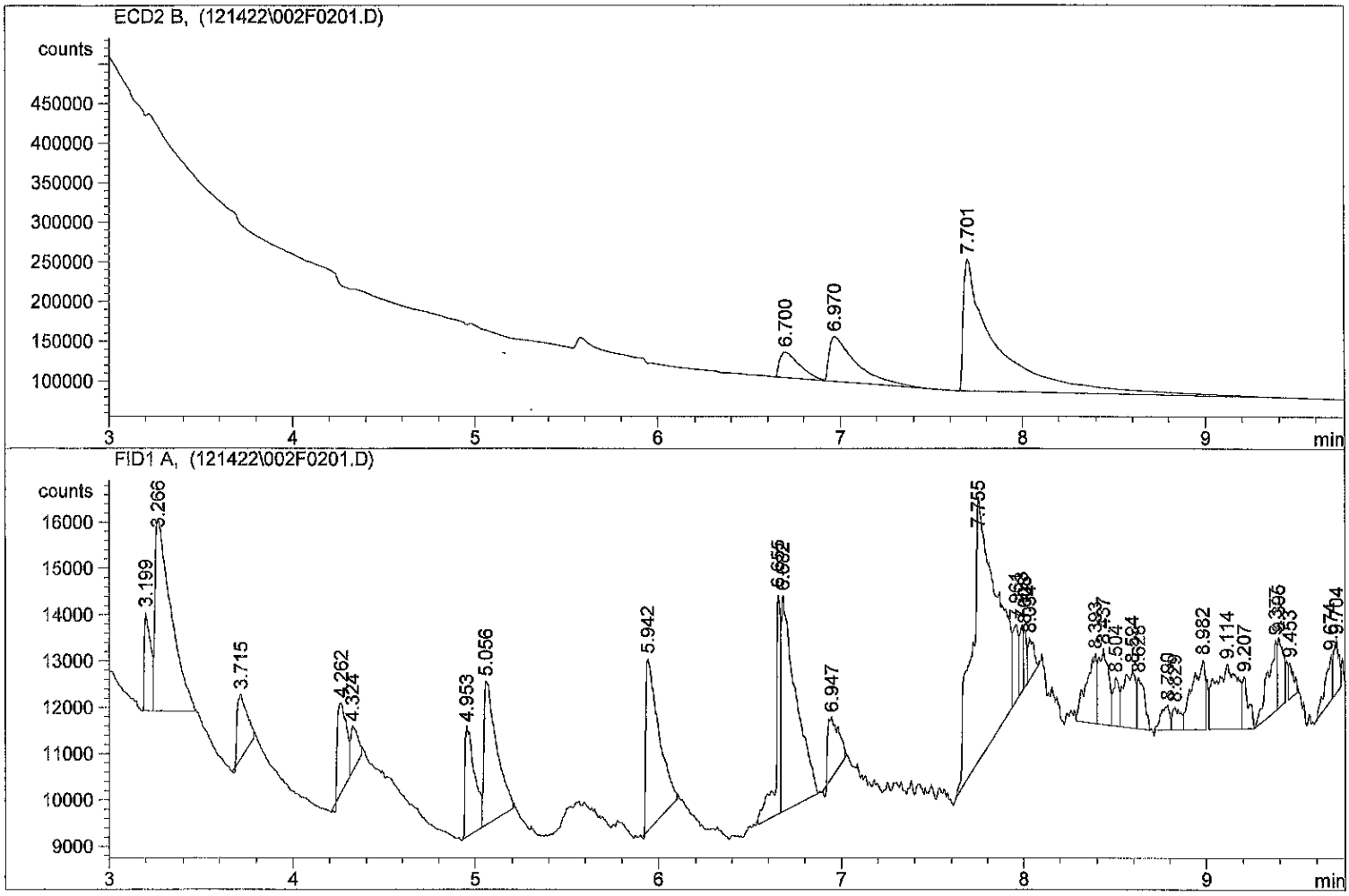

*** End of Report ***

```
Injection Date  : 12/14/2022 5:22:59 PM          Seq. Line :   3
Sample Name     : AR1660 1PPM                    Location : Vial 3
Acq. Operator   : CR                                 Inj :   1
                                                 Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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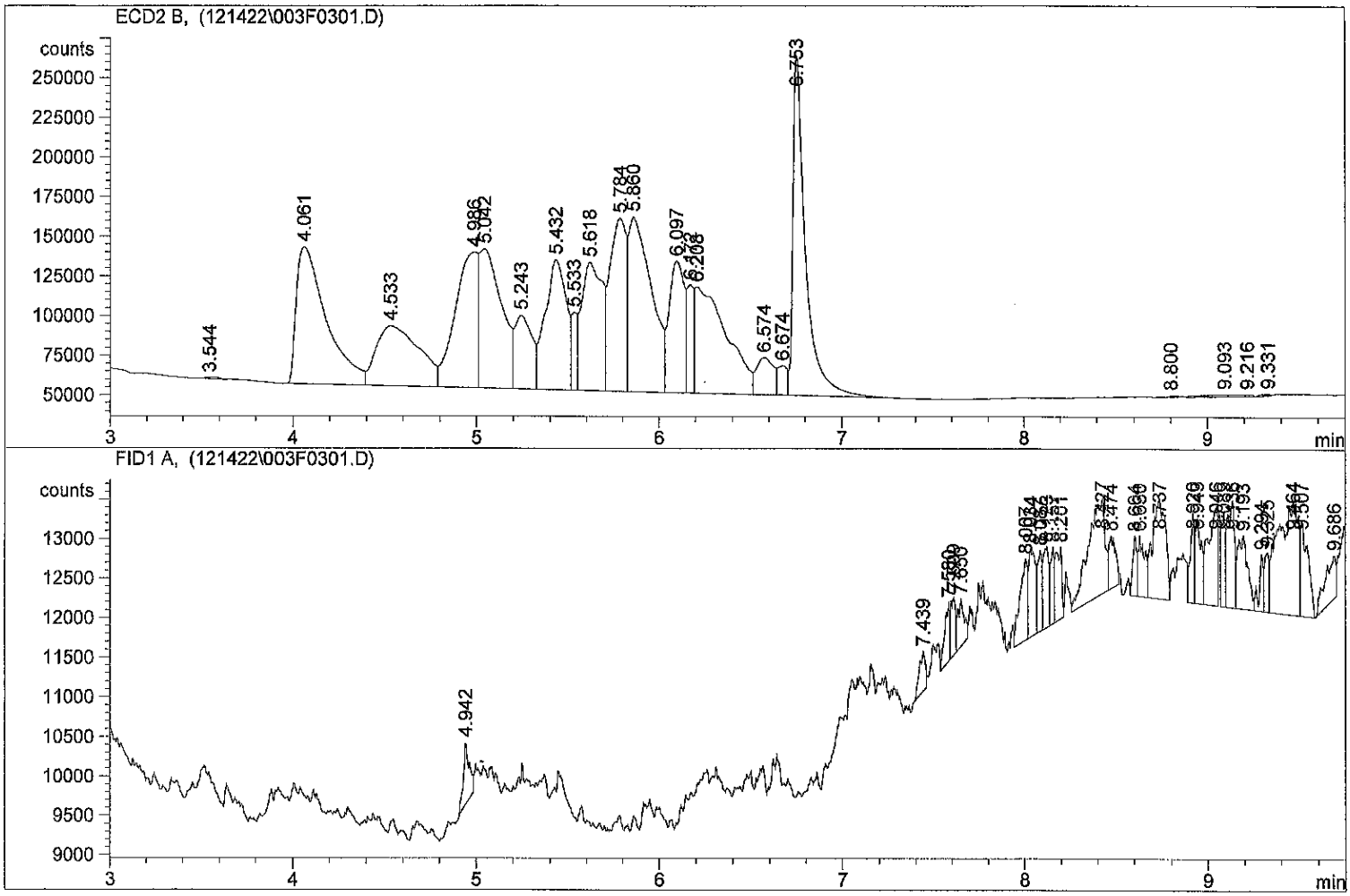

*** End of Report ***

```
Injection Date  : 12/14/2022 5:37:24 PM        Seq. Line :   4
Sample Name     : 22L0199 01                   Location : Vial 4
Acq. Operator   : CR                              Inj :   1
                                               Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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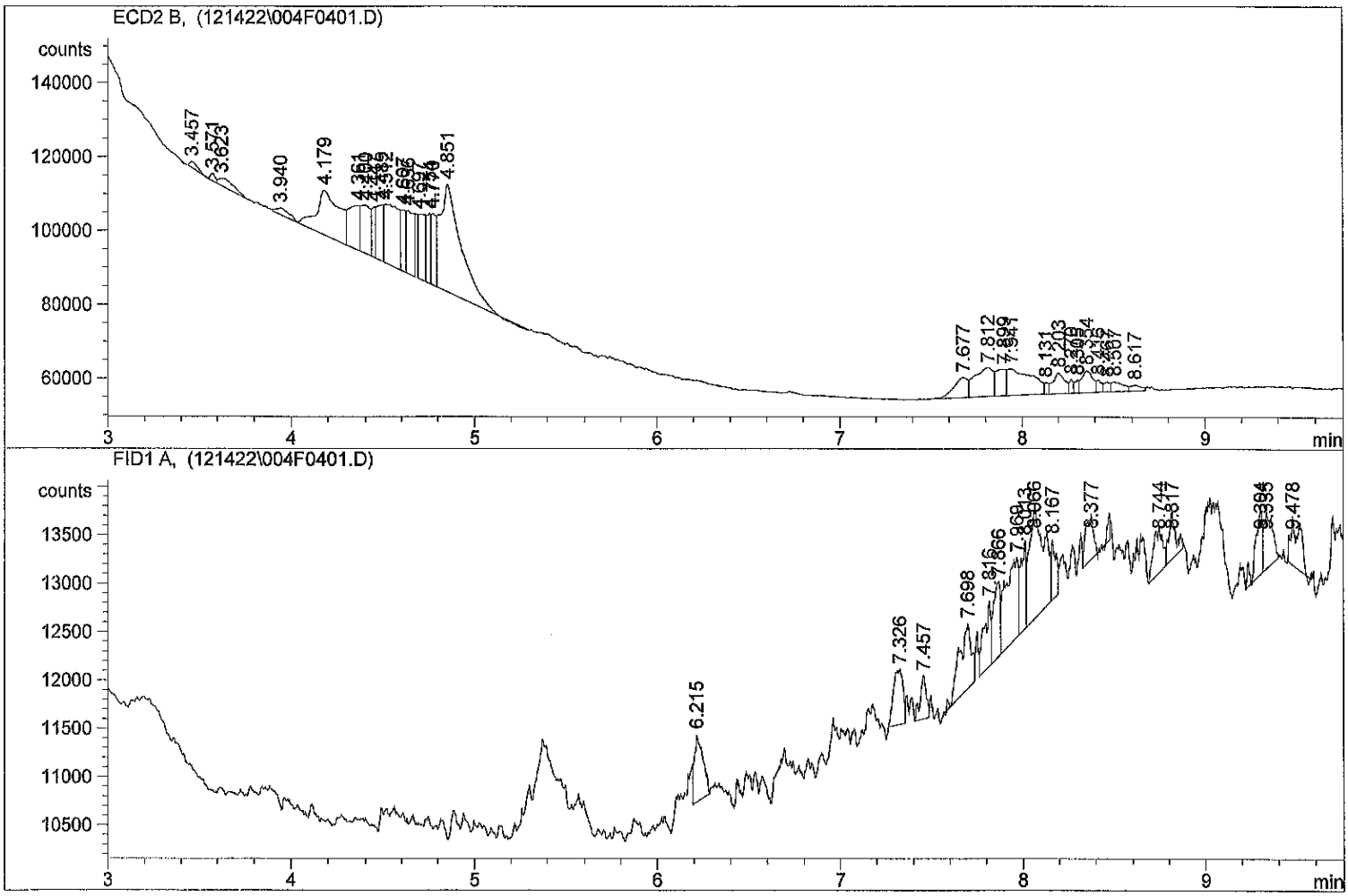

*** End of Report ***

```
Injection Date  : 12/14/2022 5:51:49 PM          Seq. Line :   5
Sample Name     : 22L0199 02                     Location : Vial 5
Acq. Operator   : CR                                 Inj :   1
                                                 Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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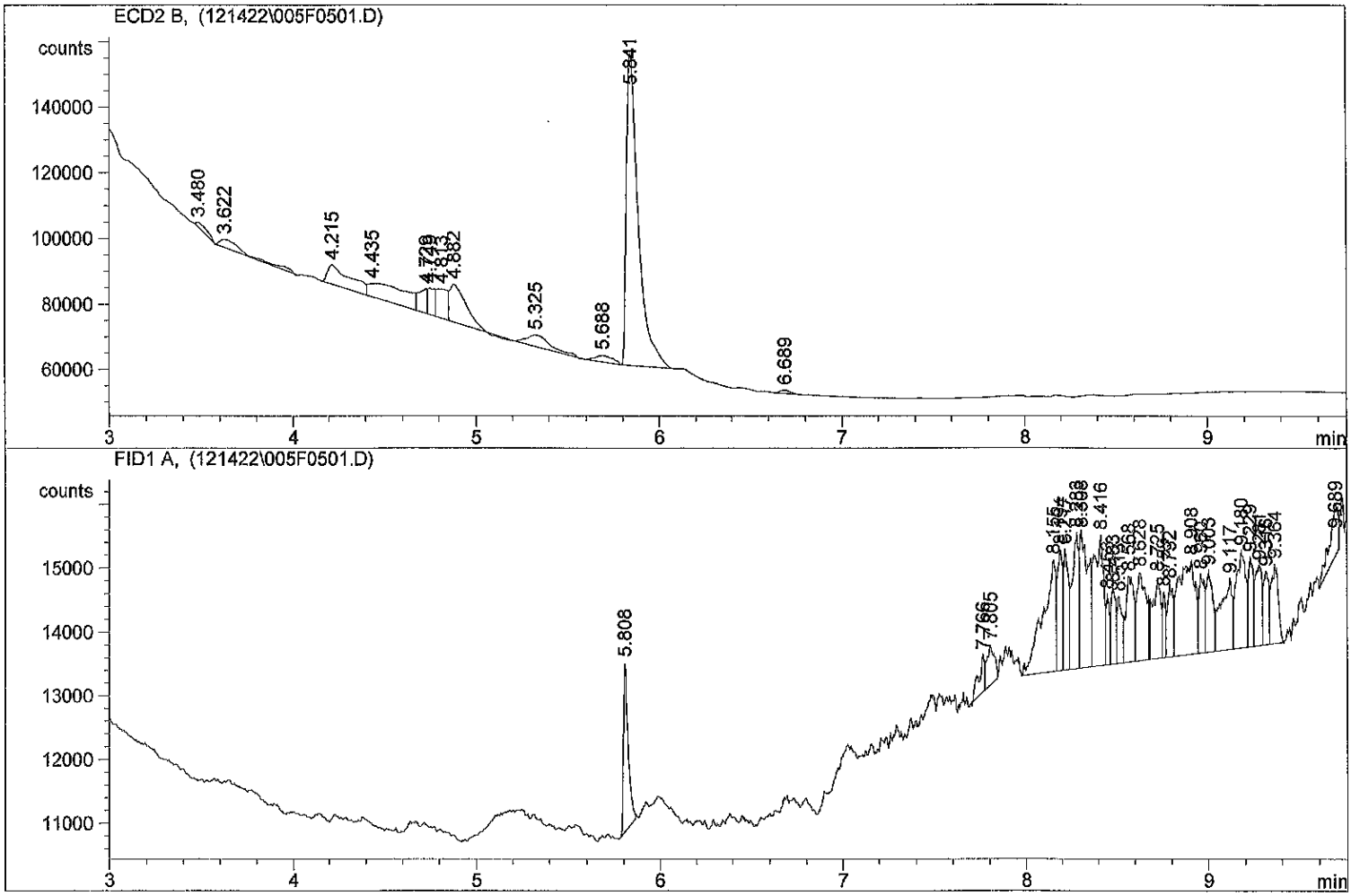
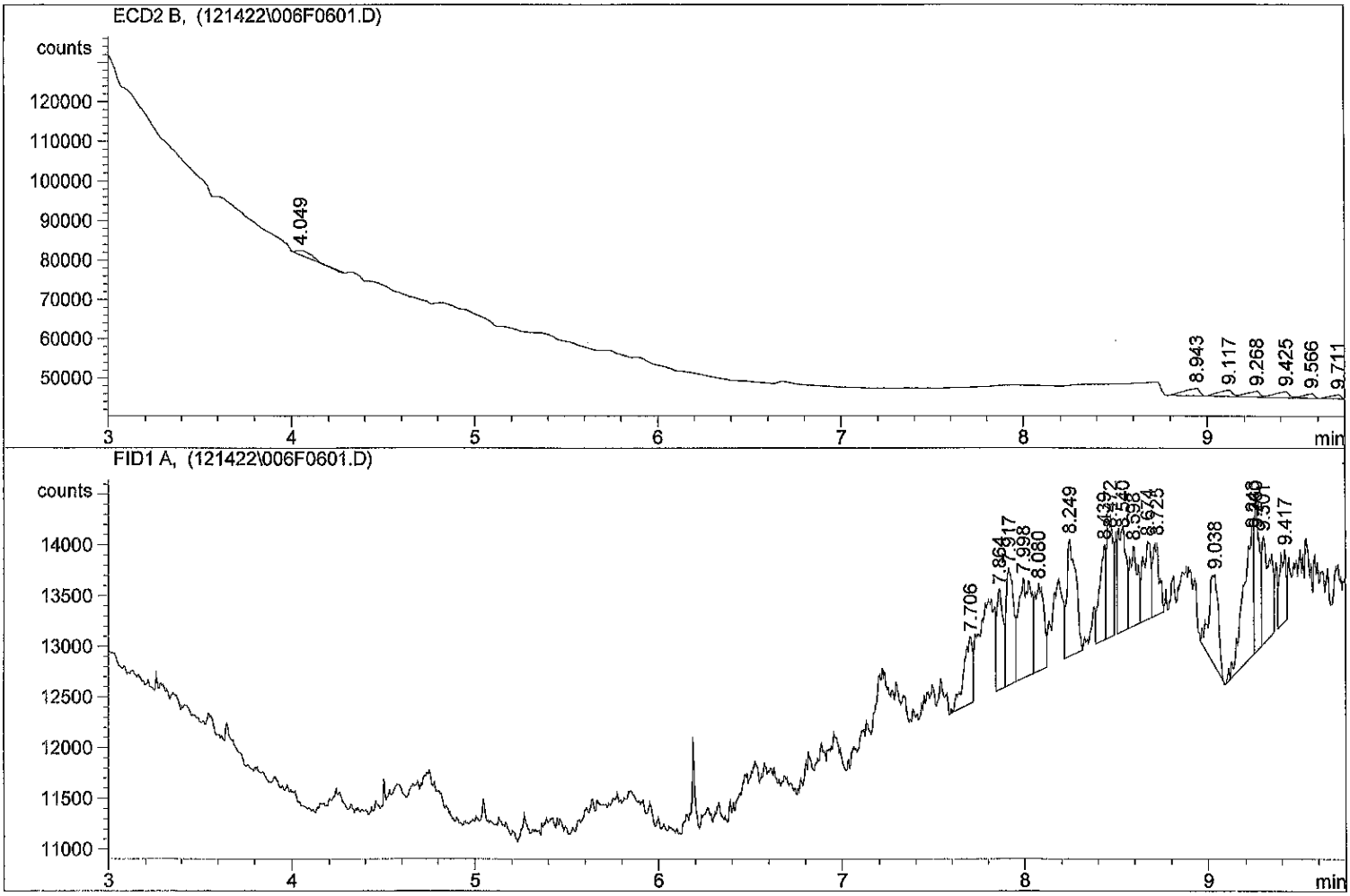


*** End of Report ***

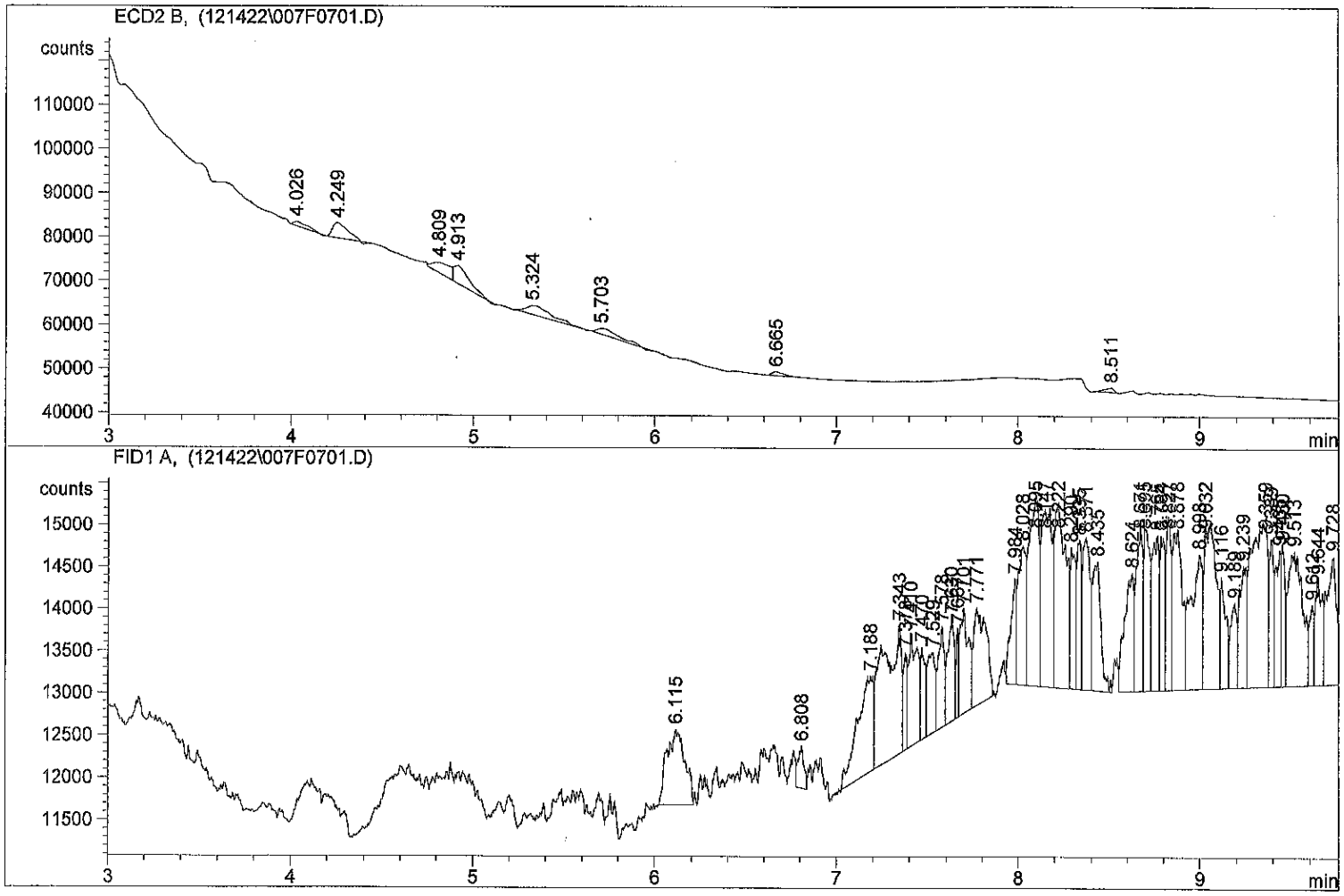
Injection Date	: 12/14/2022 6:06:09 PM	Seq. Line	: 6
Sample Name	: 22L0199 03	Location	: Vial 6
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

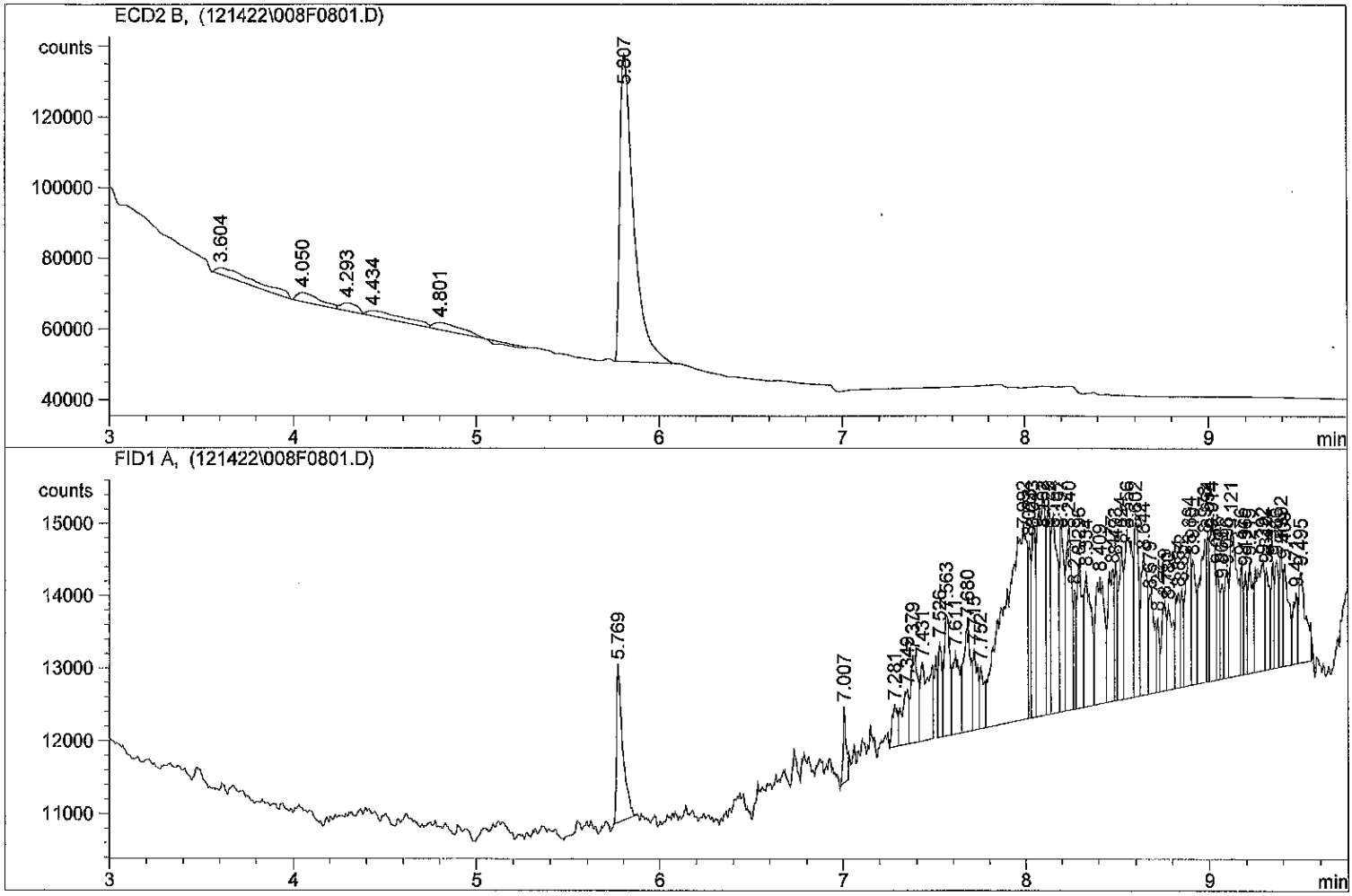
Injection Date : 12/14/2022 6:20:38 PM Seq. Line : 7
Sample Name : 22L0199 04 Location : Vial 7
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



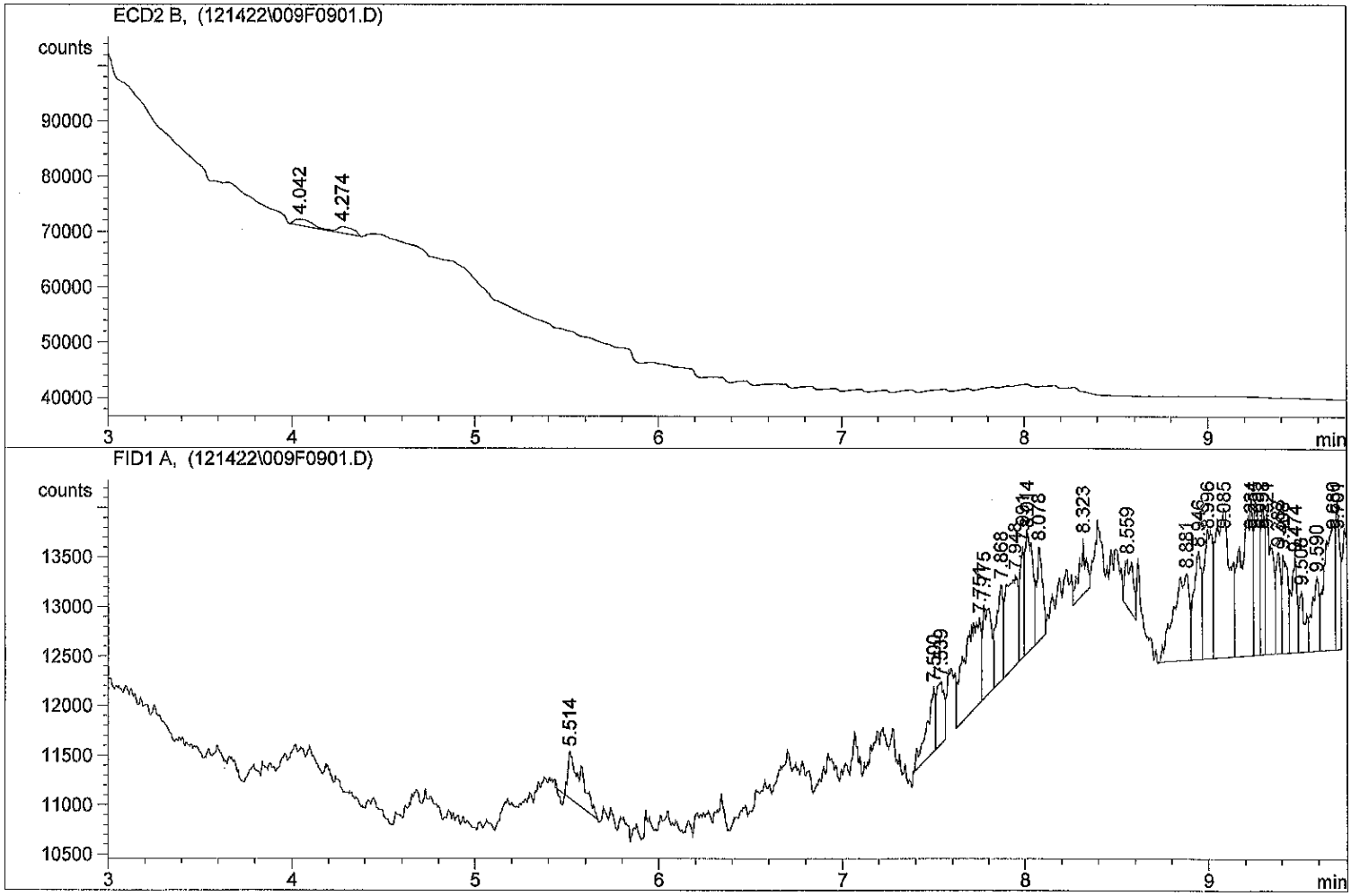
*** End of Report ***

Injection Date	: 12/14/2022 6:34:56 PM	Seq. Line	: 8
Sample Name	: 22L0199 05	Location	: Vial 8
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

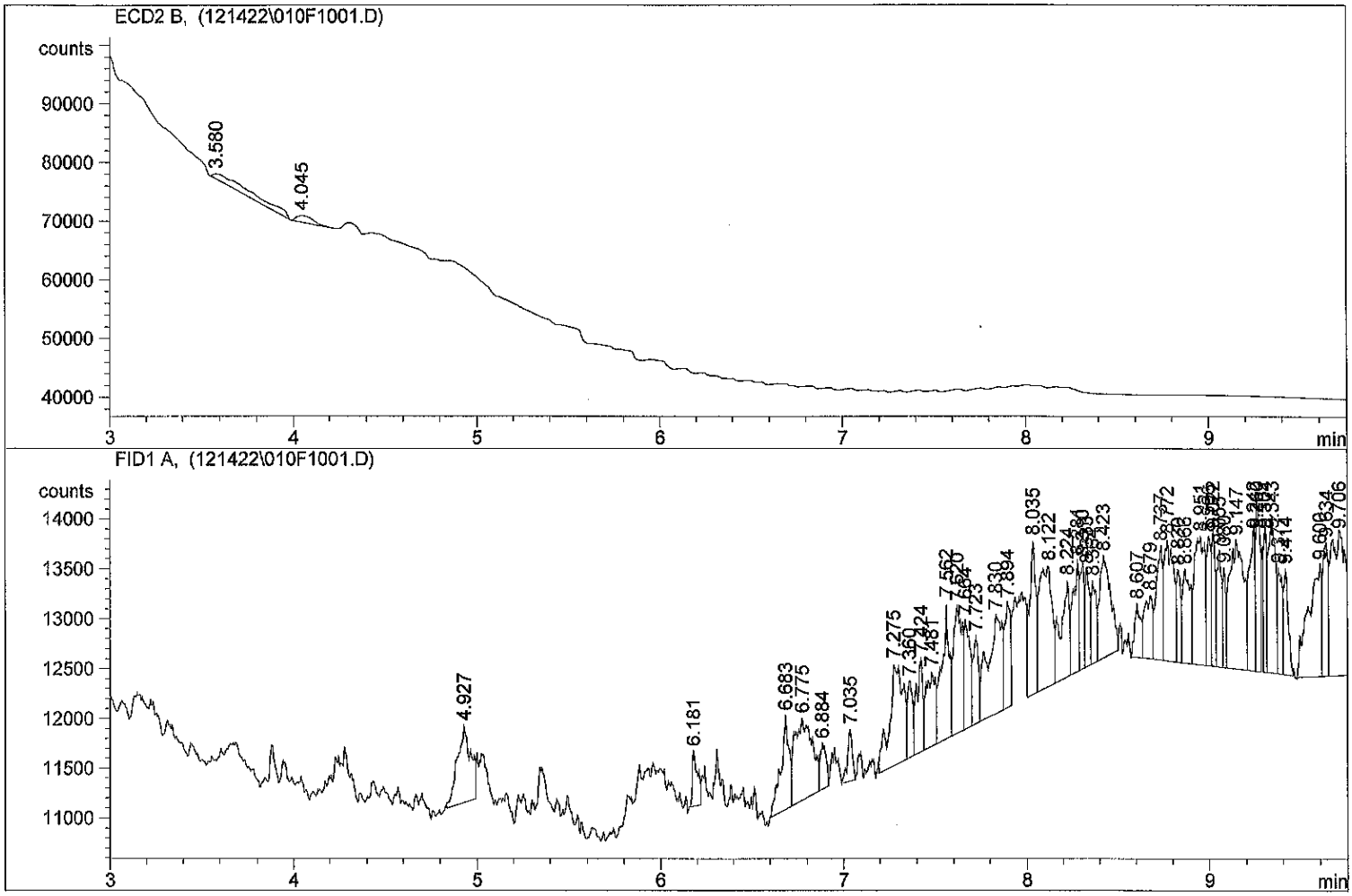
Injection Date	: 12/14/2022 6:49:24 PM	Seq. Line	: 9
Sample Name	: 22L0199 06	Location	: Vial 9
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

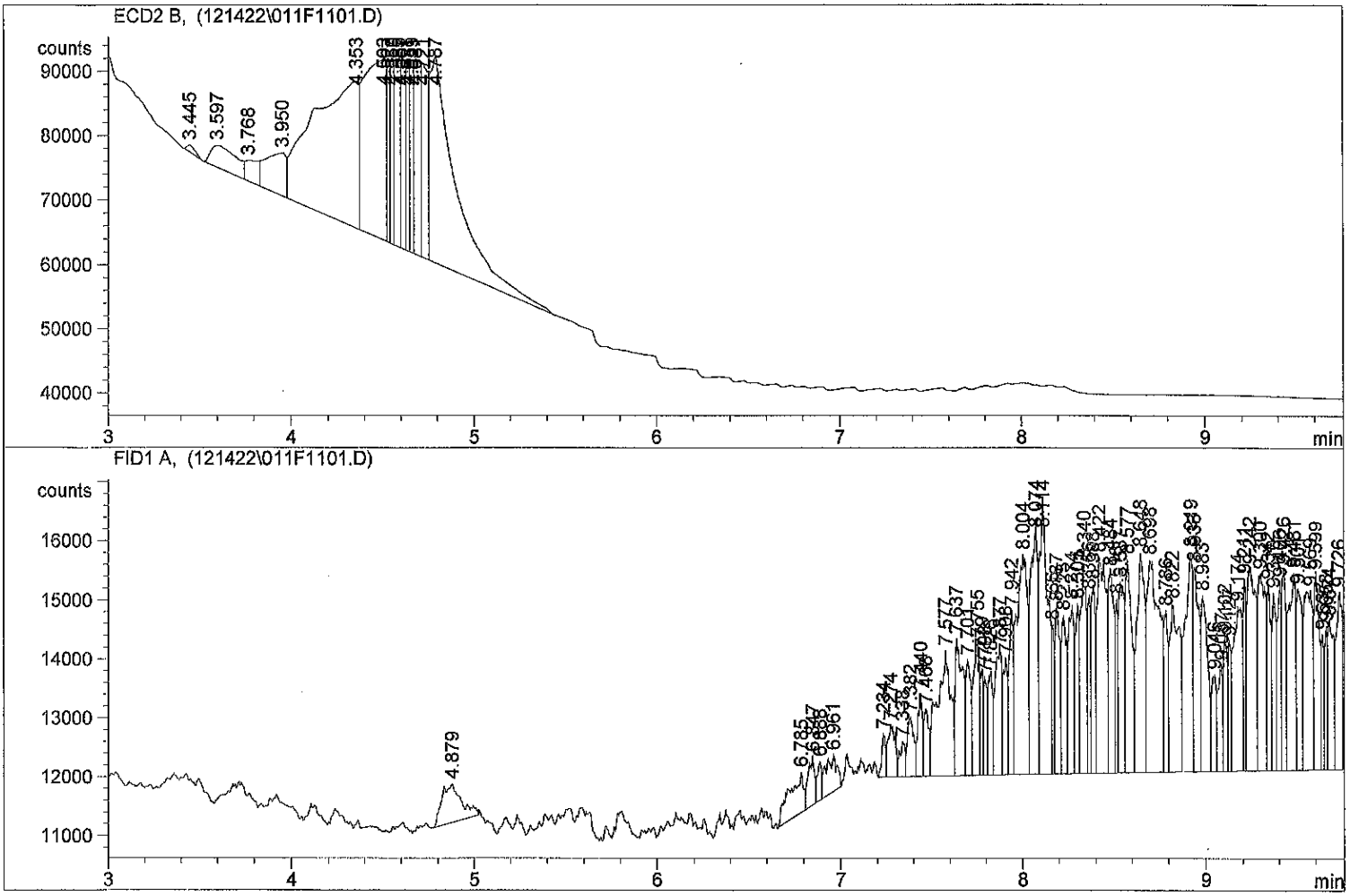
Injection Date : 12/14/2022 7:03:50 PM Seq. Line : 10
Sample Name : 22L0199 07 Location : Vial 10
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



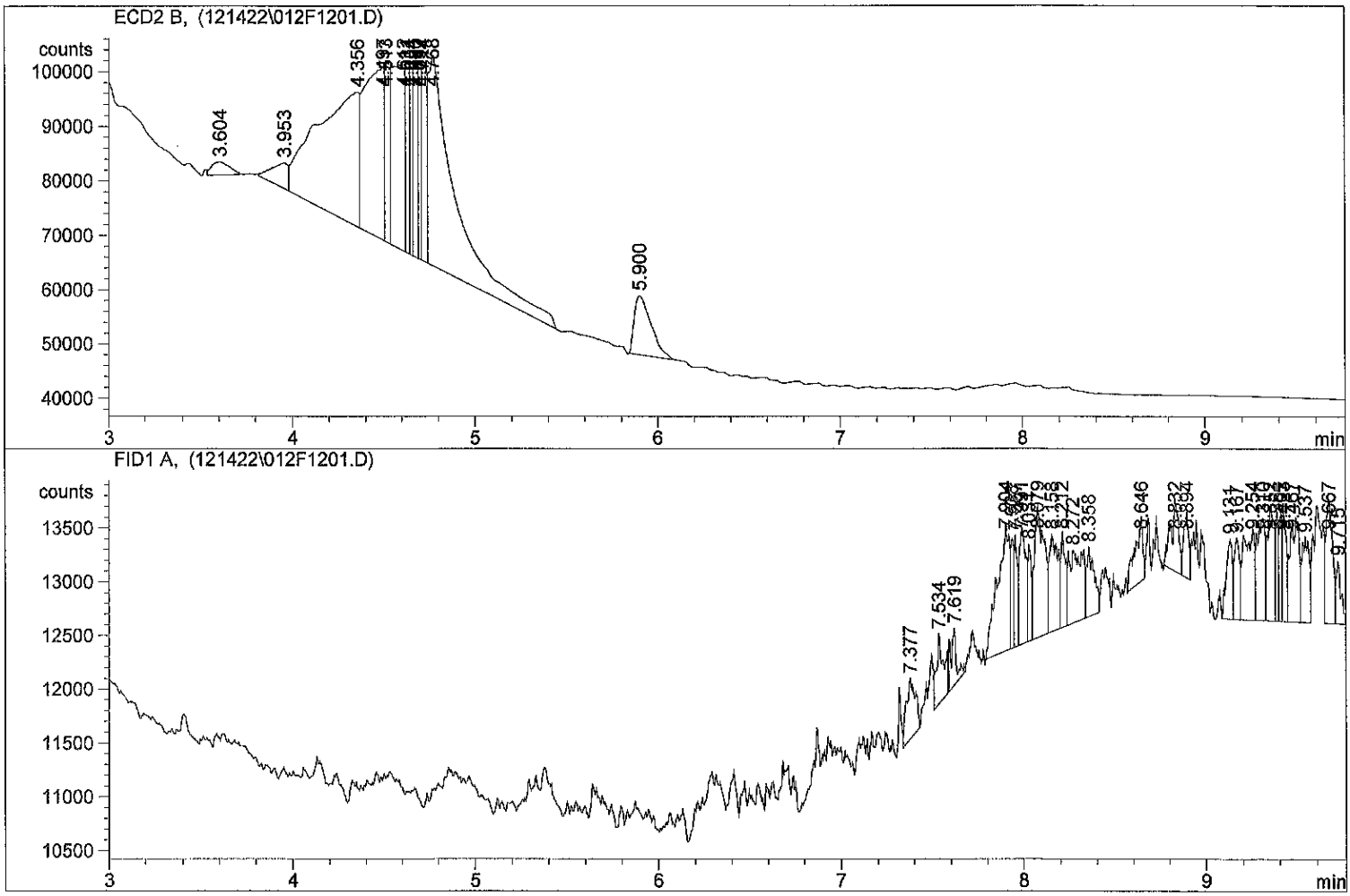
*** End of Report ***

Injection Date	: 12/14/2022 7:18:11 PM	Seq. Line	: 11
Sample Name	: 22L0199 08	Location	: Vial 11
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/14/2022 7:32:31 PM	Seq. Line	: 12
Sample Name	: 22L0199 09	Location	: Vial 12
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/14/2022 7:47:03 PM        Seq. Line :  13
Sample Name     : 22L0199 10                    Location : Vial 13
Acq. Operator   : CR                               Inj :  1
                                              Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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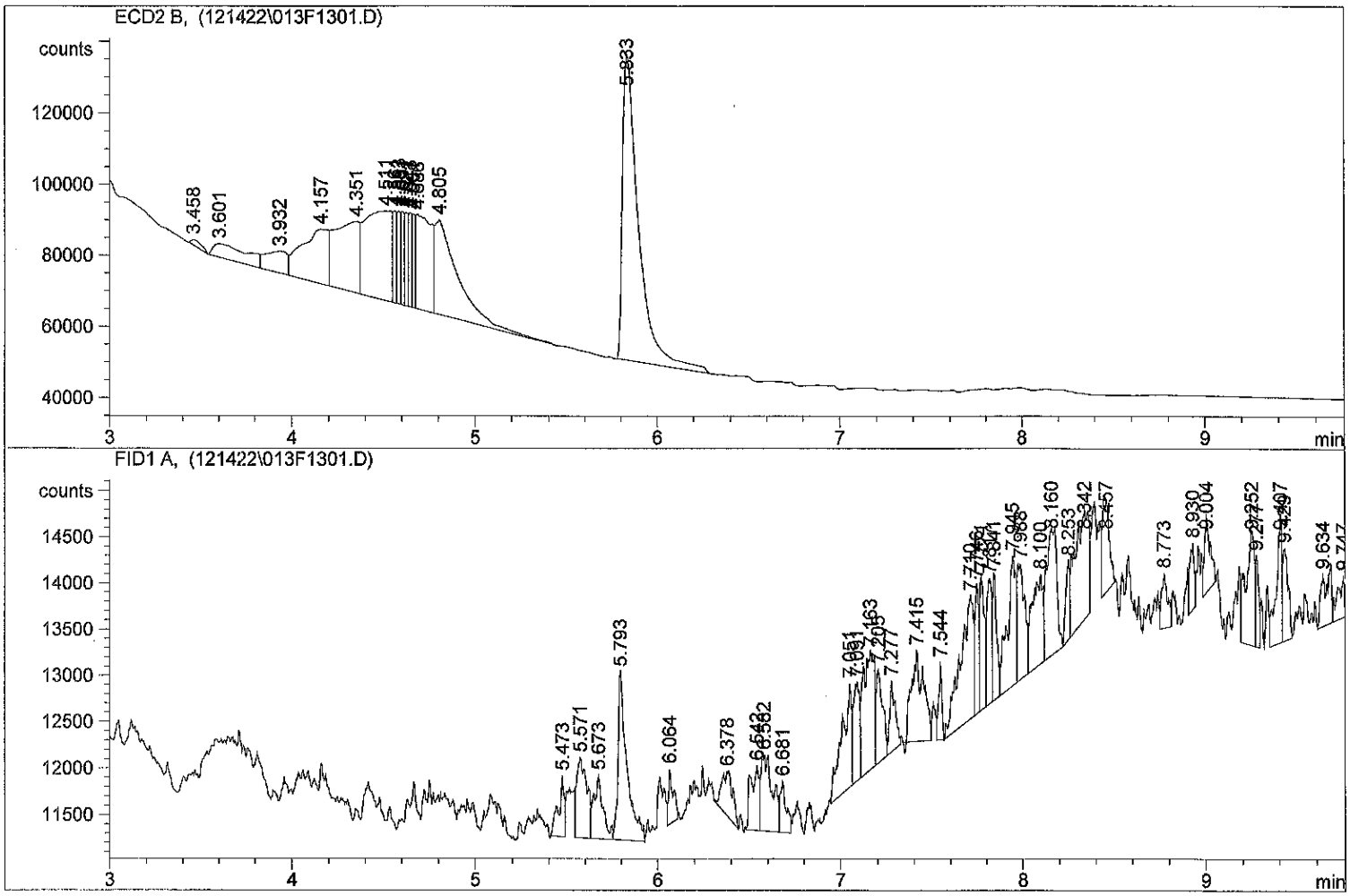
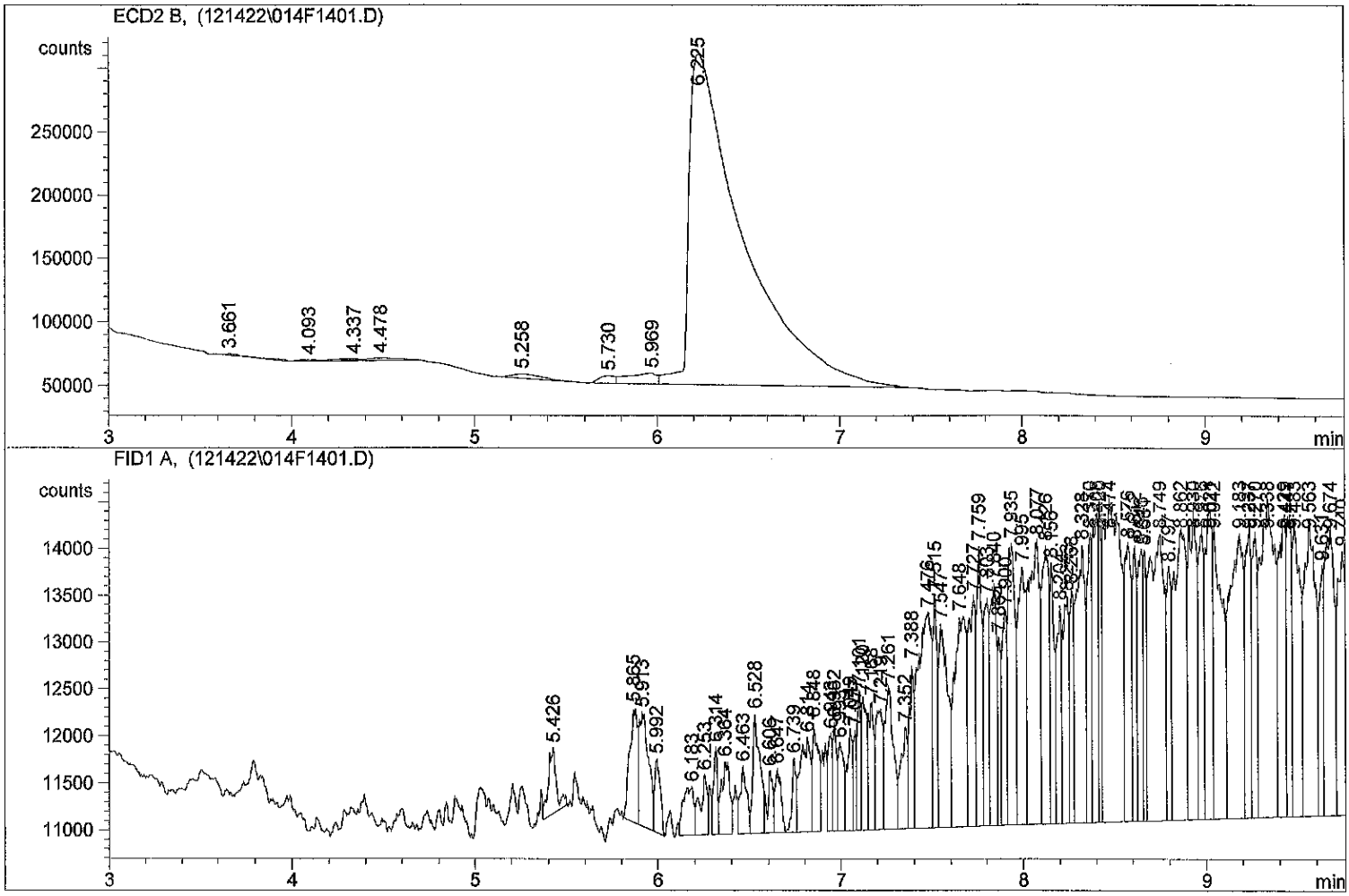


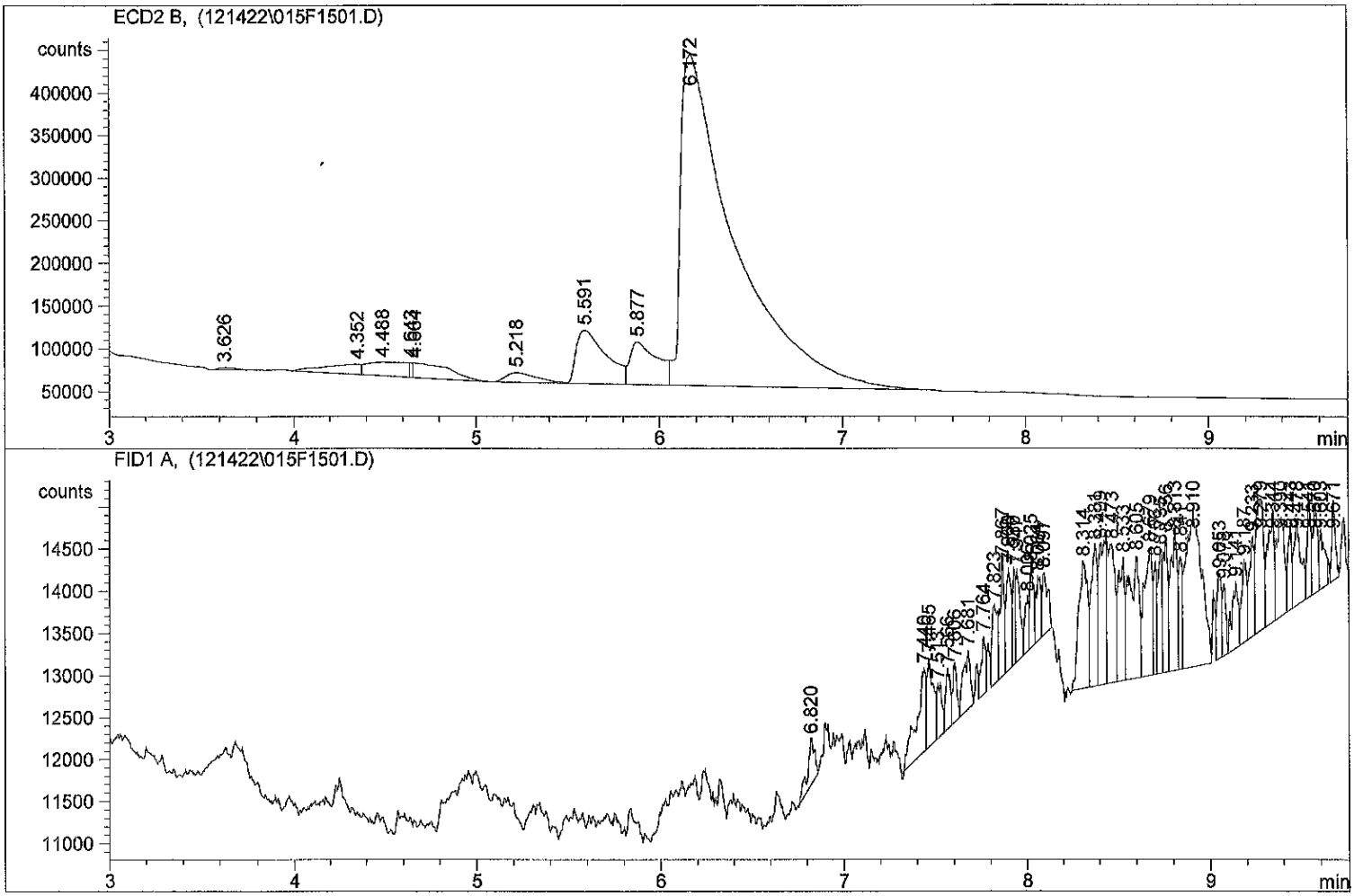
*** End of Report ***

Injection Date	: 12/14/2022 8:01:21 PM	Seq. Line	: 14
Sample Name	: 22L0199 11	Location	: Vial 14
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/14/2022 8:15:45 PM	Seq. Line	: 15
Sample Name	: 22L0199 12	Location	: Vial 15
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/14/2022 8:30:01 PM        Seq. Line :  16
Sample Name     : 22L0199 13                   Location : Vial 16
Acq. Operator   : CR                               Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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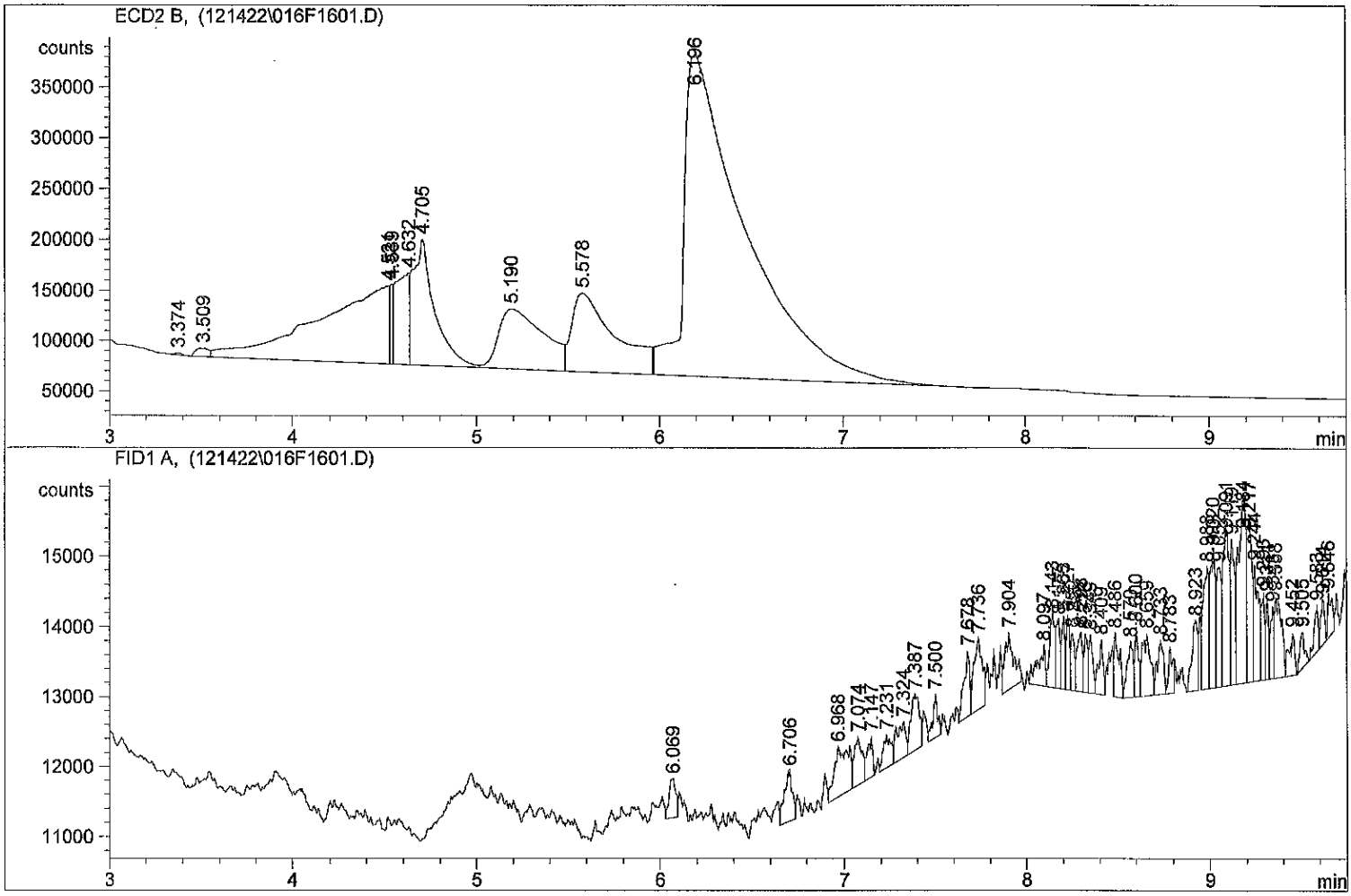
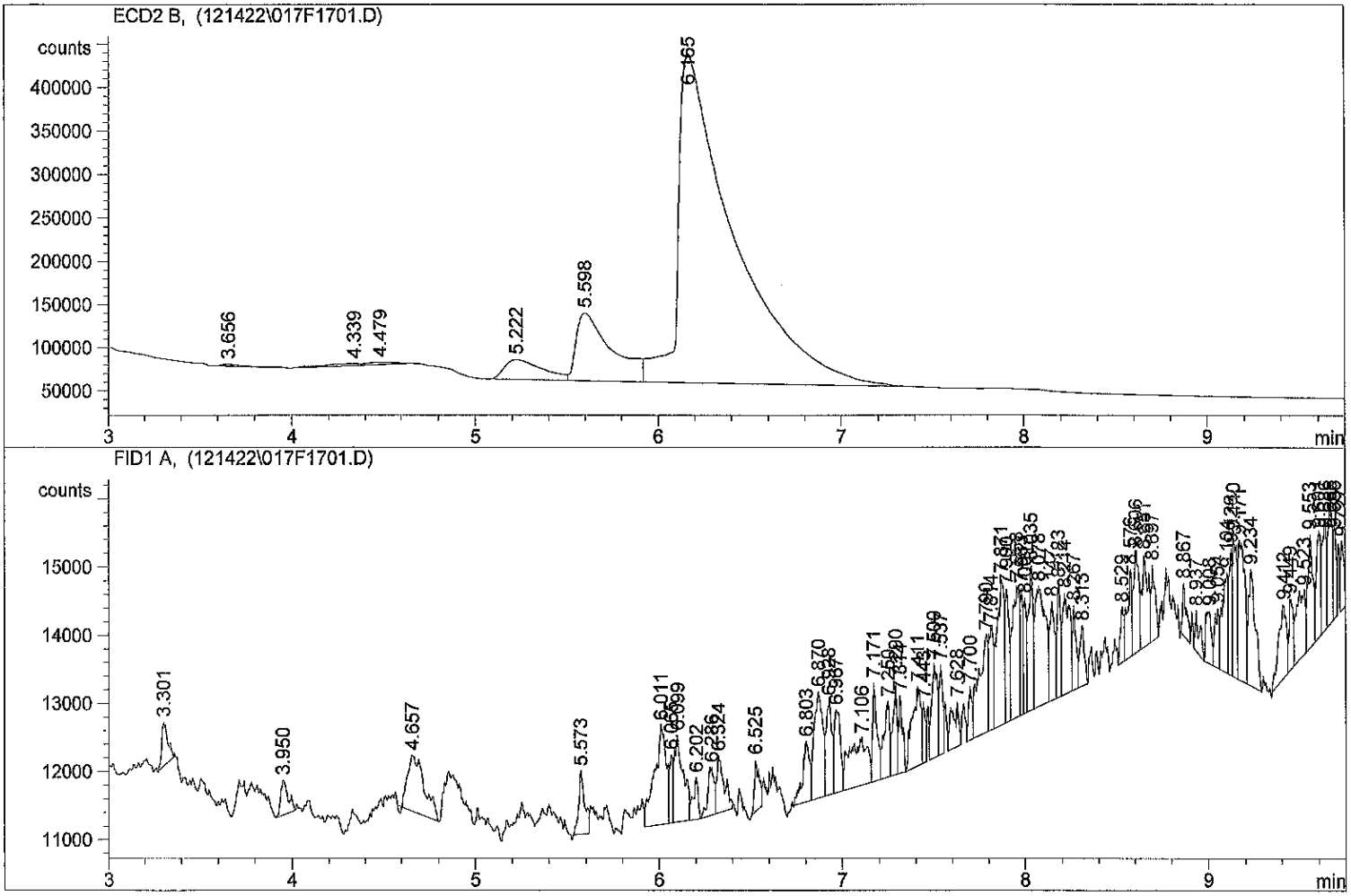


*** End of Report ***

Injection Date	: 12/14/2022 8:43:42 PM	Seq. Line	: 17
Sample Name	: 22L0199 14	Location	: Vial 17
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/14/2022 8:58:21 PM        Seq. Line :  18
Sample Name     : 22L0199 15                   Location : Vial 18
Acq. Operator   : CR                              Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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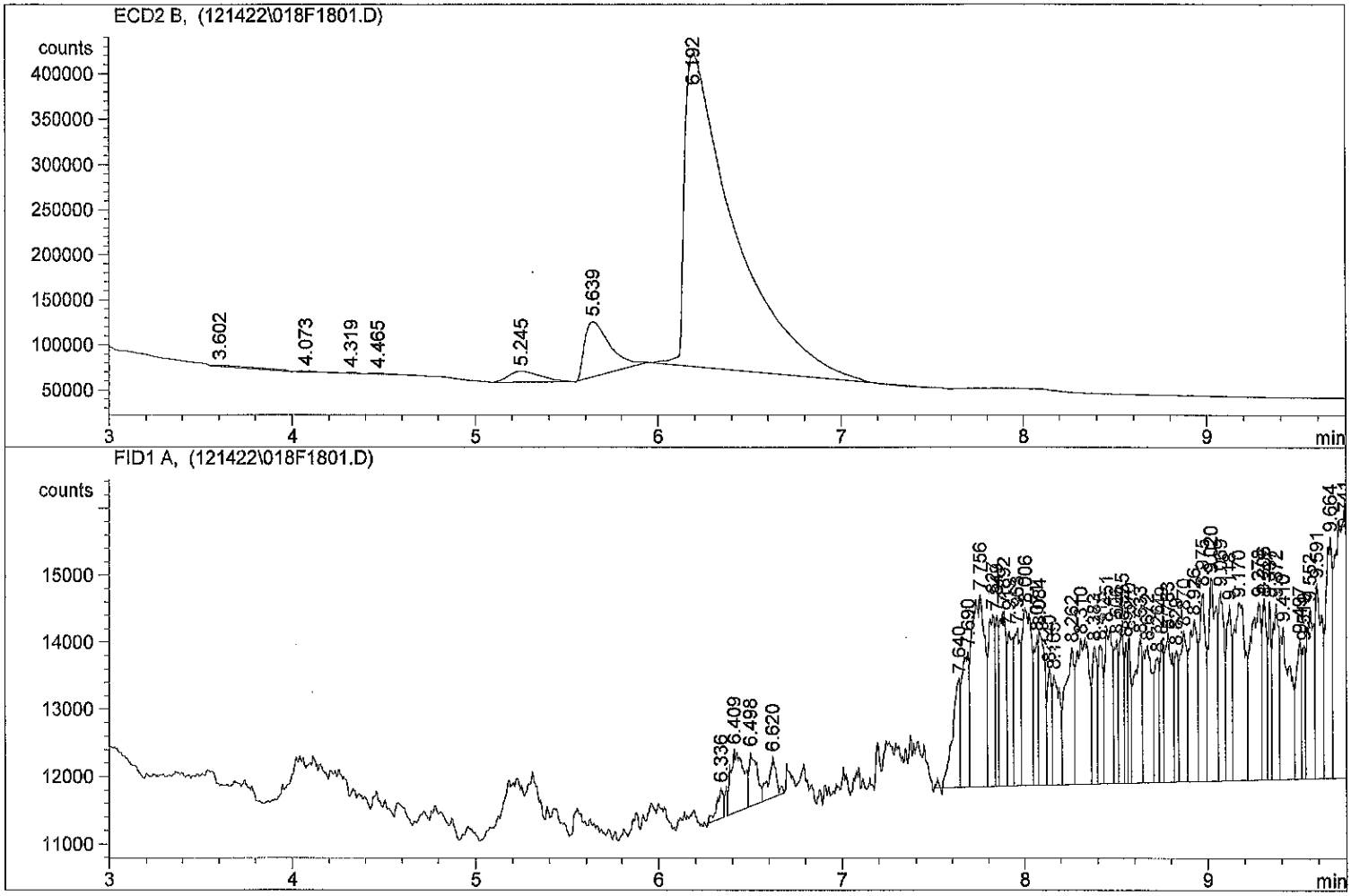
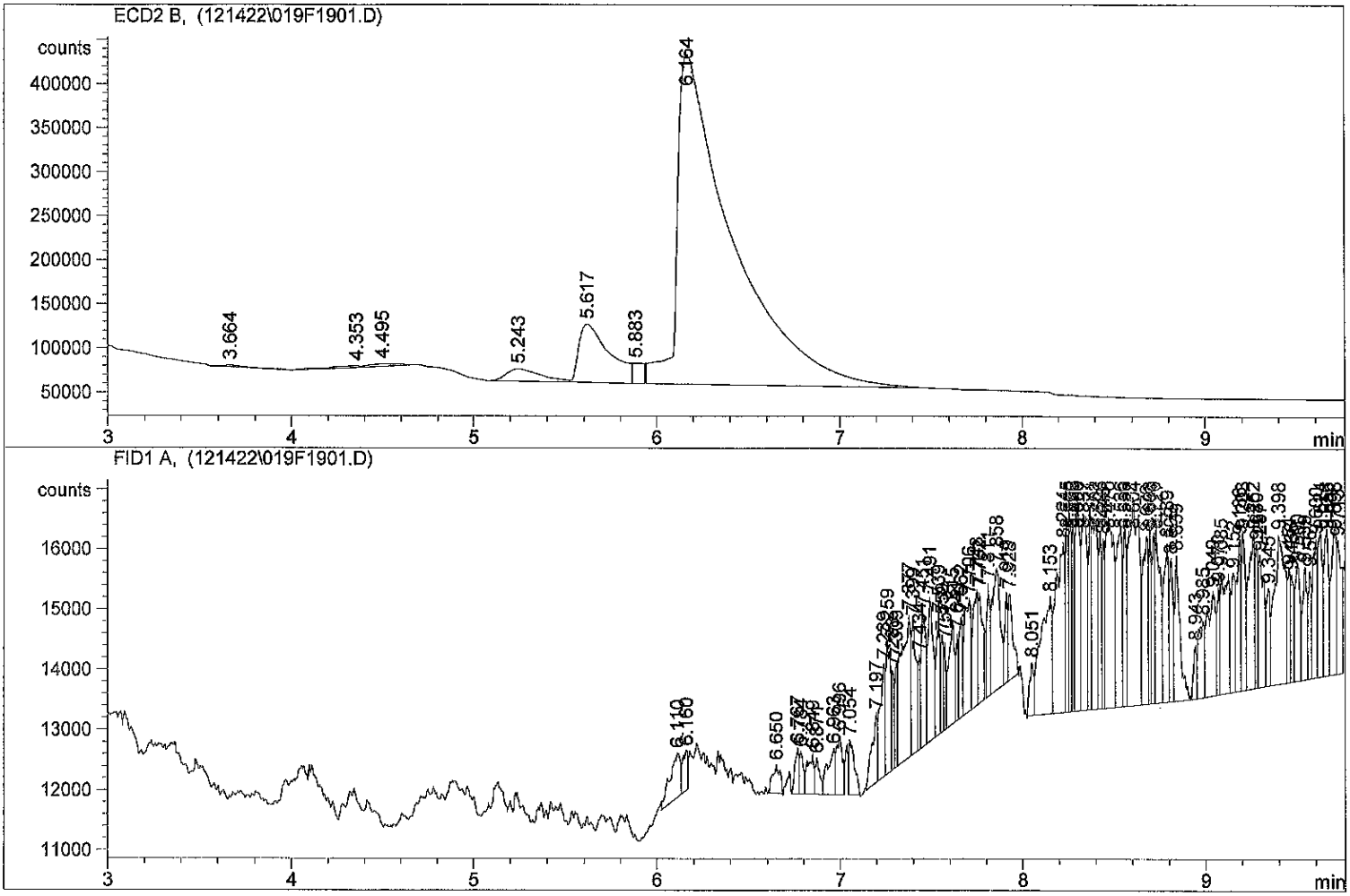


*** End of Report ***

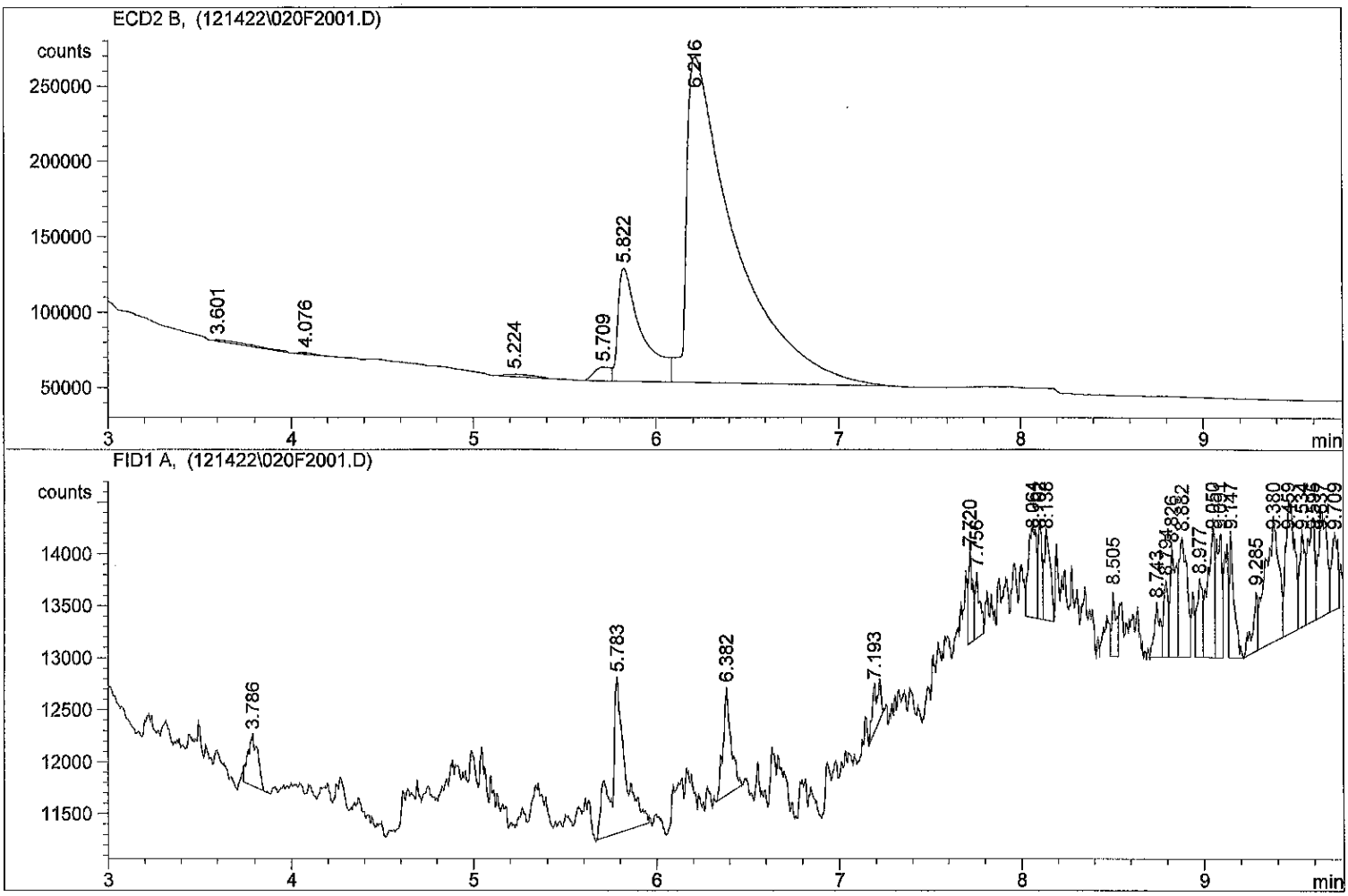
Injection Date	: 12/14/2022 9:11:50 PM	Seq. Line	: 19
Sample Name	: 22L0199 16	Location	: Vial 19
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 12/14/2022 9:25:34 PM Seq. Line : 20
Sample Name : 22L0199 17 Location : Vial 20
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

```
Injection Date  : 12/14/2022 10:22:08 PM        Seq. Line :  24
Sample Name     : 22L0199 18                    Location : Vial 21
Acq. Operator   : CR                               Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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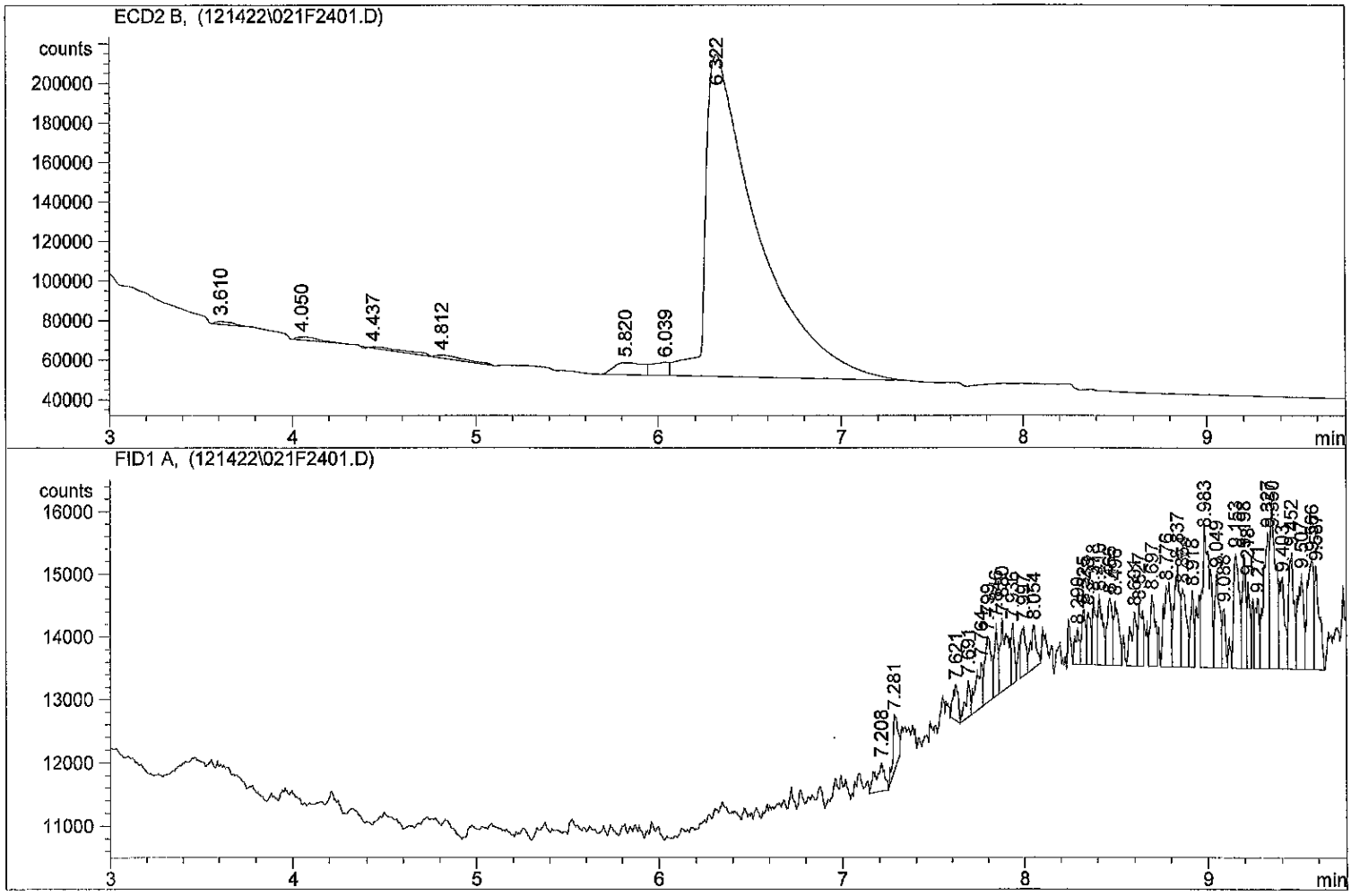

*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\022F2501.D Sample Name: 22L0199 19

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Injection Date  : 12/14/2022 10:36:42 PM        Seq. Line :  25
Sample Name     : 22L0199 19                    Location : Vial 22
Acq. Operator   : CR                               Inj :   1
                                                Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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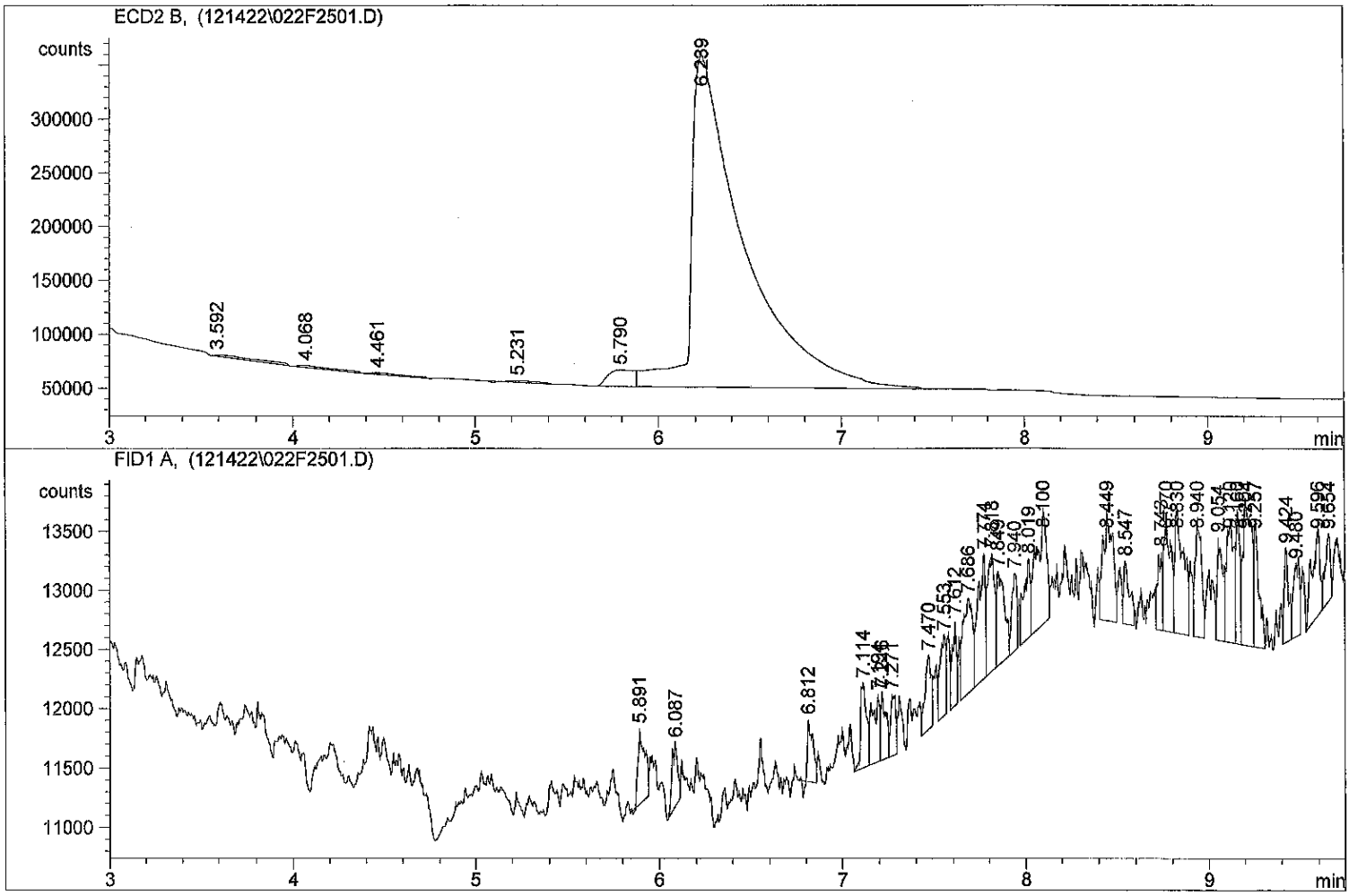
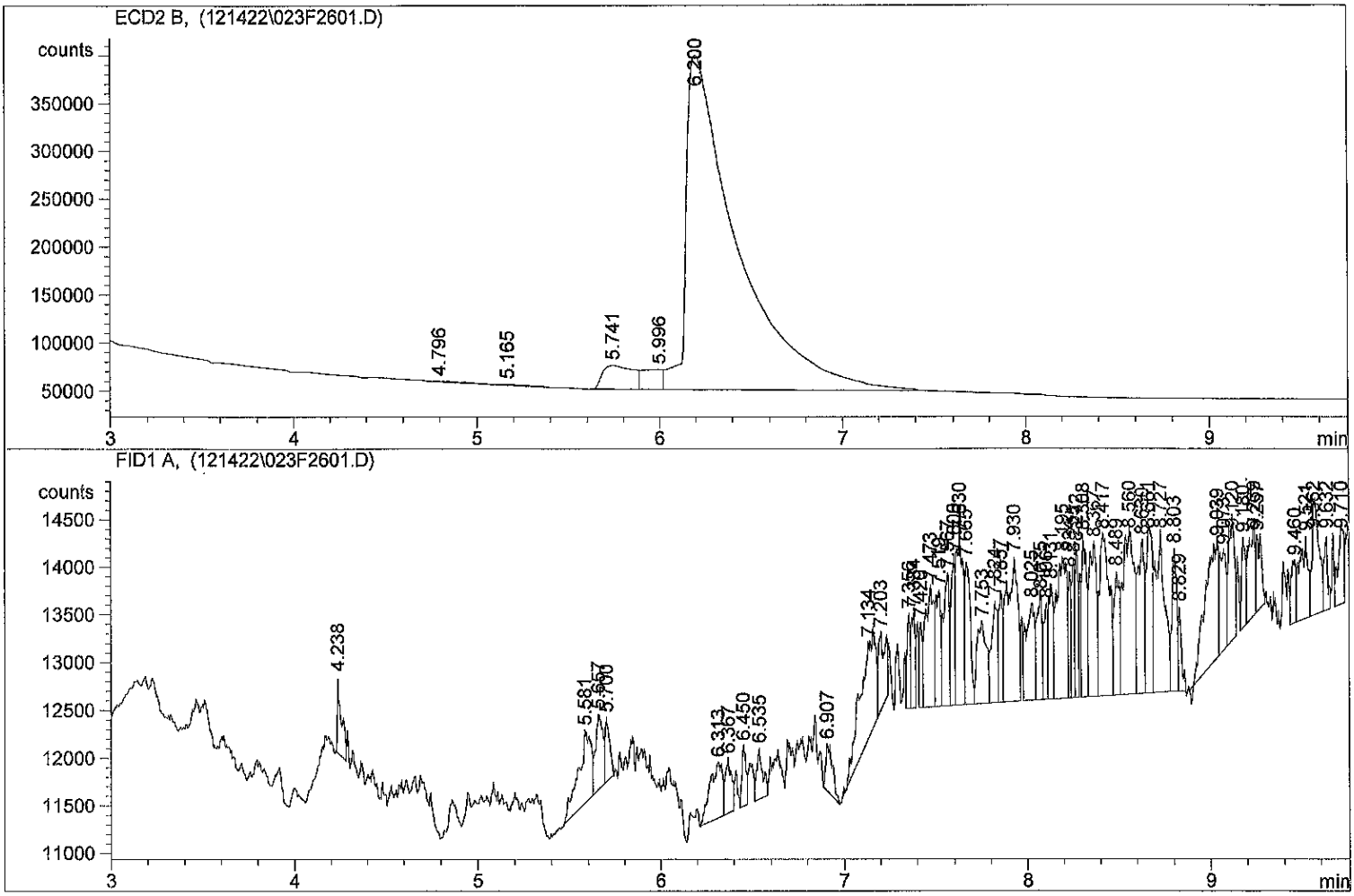


*** End of Report ***

Injection Date	: 12/14/2022 10:50:08 PM	Seq. Line	: 26
Sample Name	: 22L0199 20	Location	: Vial 23
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0402 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT790K	22L0199-21	12302216ECD7.D	12/19/22 12:08	
LDW22-IT790L	22L0199-22	12302217ECD7.D	12/19/22 12:08	
LDW22-IT790M	22L0199-23	12302218ECD7.D	12/19/22 12:08	
LDW22-SC802A	22L0199-24	01042352ECD7.D	12/19/22 12:08	
LDW22-SC802B	22L0199-25	01052374ECD7.D	12/19/22 12:08	
LDW22-SC802C	22L0199-26	01052375ECD7.D	12/19/22 12:08	
LDW22-SC802D	22L0199-27	01052376ECD7.D	12/19/22 12:08	
LDW22-SC802E	22L0199-28	01052377ECD7.D	12/19/22 12:08	
LDW22-SC802F	22L0199-29	01052378ECD7.D	12/19/22 12:08	
LDW22-SC802G	22L0199-30	01052379ECD7.D	12/19/22 12:08	
LDW22-SC802H	22L0199-31	01032309ECD7.D	12/19/22 12:08	
LDW22-SC802I	22L0199-32	01032310ECD7.D	12/19/22 12:08	
LDW22-SC802J	22L0199-33	01052380ECD7.D	12/19/22 12:08	
LDW22-SC802K	22L0199-34	01052381ECD7.D	12/19/22 12:08	
LDW22-SC802C-FD	22L0199-35	01052382ECD7.D	12/19/22 12:08	
LDW22-SC787A	22L0199-36	01052383ECD7.D	12/19/22 12:08	
LDW22-SC787B	22L0199-37	01052386ECD7.D	12/19/22 12:08	
LDW22-SC787C	22L0199-38	01052387ECD7.D	12/19/22 12:08	
LDW22-SC787D	22L0199-39	01052388ECD7.D	12/19/22 12:08	
LDW22-SC787E	22L0199-40	01052369ECD7.D	12/19/22 12:08	
Blank	BKL0402-BLK1	12302210ECD7.D	12/19/22 12:08	
LCS	BKL0402-BS1	12302211ECD7.D	12/19/22 12:08	
LCS Dup	BKL0402-BSD1	12302212ECD7.D	12/19/22 12:08	
LDW22-IT790K	BKL0402-MS1	12302214ECD7.D	12/19/22 12:08	
LDW22-IT790K	BKL0402-MSD1	12302215ECD7.D	12/19/22 12:08	
Reference	BKL0402-SRM1	12302213ECD7.D	12/19/22 12:08	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0402

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 12/19/22 **Balance ID:** B1464626 14 **Set Up By:** CPD 12/15/22

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0199-21 B	89.5	(13.97) 13.98	5mL	5mL	2mL	2.5	1.0	
22L0199-22 B	75.4	(16.59) 16.62	5mL	5mL	2mL	2.5	1.0	
22L0199-23 B	67.8	(18.43) 18.54	5mL	5mL	2mL	2.5	1.0	
22L0199-24 B	51.6	(24.21) 24.27	5mL	5mL	2mL	2.5	1.0	
22L0199-25 B	51.9	(24.10) 24.15	5mL	5mL	2mL	2.5	1.0	
22L0199-26 B	52.3	(23.91) 23.96	5mL	5mL	2mL	2.5	1.0	
22L0199-27 B	53.8	(23.23) 23.26	5mL	5mL	2mL	2.5	1.0	
22L0199-28 B	53.8	(23.23) 23.24	5mL	5mL	2mL	2.5	1.0	
22L0199-29 B	57.3	(21.82) 21.92	5mL	5mL	2mL	2.5	1.0	
22L0199-30 B	59.3	(21.09) 21.09	5mL	5mL	2mL	2.5	1.0	
22L0199-31 B	68.5	(18.26) 21.26	5mL	5mL	2mL	2.5	1.0	
22L0199-32 B	73.0	(17.13) 13.17	5mL	5mL	2mL	2.5	1.0	
22L0199-33 B	80.2	(15.59) 15.54	5mL	5mL	2mL	2.5	1.0	
22L0199-34 B	82.1	(15.24) 15.29	5mL	5mL	2mL	2.5	1.0	
22L0199-35 B	52.1	(24.01) 24.03	5mL	5mL	2mL	2.5	1.0	
22L0199-36 B	60.1	(20.79) 20.85	5mL	5mL	2mL	2.5	1.0	
22L0199-37 B	53.0	(23.60) 23.66	5mL	5mL	2mL	2.5	1.0	
22L0199-38 B	55.9	(22.35) 22.38	5mL	5mL	2mL	2.5	1.0	
22L0199-39 B	57.0	(21.93) 21.97	5mL	5mL	2mL	2.5	1.0	
22L0199-40 B	56.8	(22.02) 22.08	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0402-BLK1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0402-BS1	100.0	(12.50) 12.56	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0402-BSD1	100.0	(12.50) 12.56	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0402-MS1	89.5	(13.97) 13.98	5mL	5mL	2mL	2.5	1.0	Use 22L0199-21
BKL0402-MSD1	89.5	(13.97) 13.97	5mL	5mL	2mL	2.5	1.0	Use 22L0199-21
BKL0402-SRM1	100.0	~~(12.50)~~ (2.50) 2.50	5mL	5mL	2mL	2.5	1.0	Use K003525

+1g DI WATER

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0402

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 (2) 3
12/19/22
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 (4) (5) 6
AA 12-22-22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
NRB 12/28/22
Analyst/Date

TurboVap
Post Cleanups
1 2 (3) 4 5
NRB 12/29/22
Analyst/Date

Vialing
NRB 12/29/22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CG Date: 12/19/22	
Neutral Glass Wool	K011266
1:1 Hexane/Acetone	K011389
Hexane	K011373
Anhydrous Sodium Sulfate	K011562
KD Analyst: AA Date: 12-22-22	
Anhydrous Sodium Sulfate	NA
Hexane	K011373
Vialing Analyst: NRB Date: 12/29/22	
Hexane	K011373
Concentrated Sulfuric Acid	K010364
Silica Gel (SPE) Darts	K011575
Sodium Sulfite	K003744
Tetrabutylammonium hydrogensulfate (TBAS)	K011530

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K010600 Exp Date: 1/23/2023	50µL	G	✓
Spike 20µg/mL	1 K008150 Exp Date: 3/5/2023	63µL	G	✓

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Client ID verified By	Date	Preparation Reviewed By	Date	Extraction Date and Time
[signature]	12/19/22	NRB	12/29/22	12/19/22 12:48

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0402

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

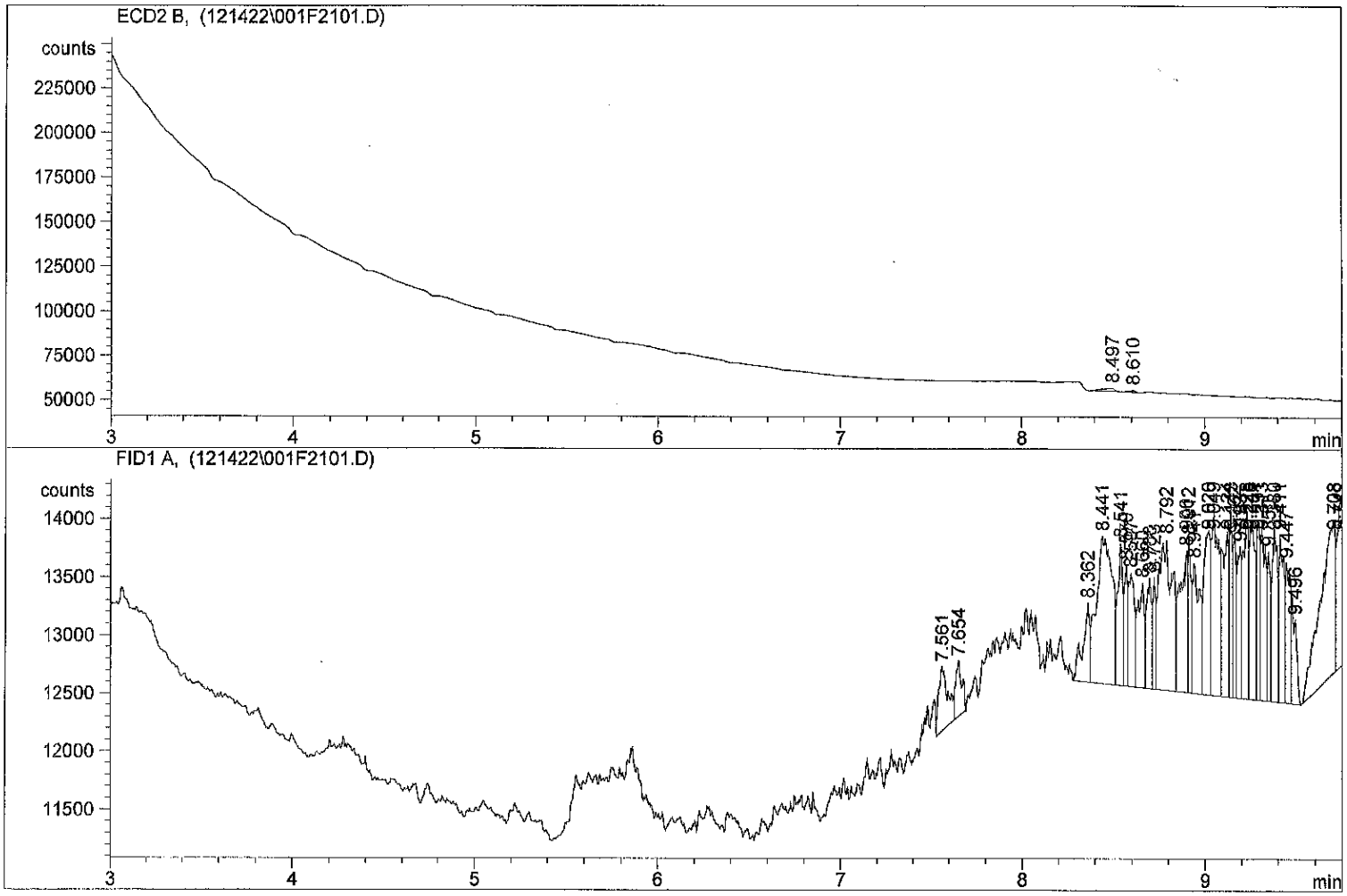
Extraction Parameter: PCB Extraction Batch: BKL0402

Total Solids Batch: BKL0342 Work Order(s): 22L0199 21-40

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 21-24, 26-34, 38	CR 12/14/2022
☒ Standing Water Decanted (Not shared)= 24, 25, 27, 29, 31, 33, 36-40	CR 12/14/2022
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☒ (Oily) obvious fuel/sulfur odors= 25, 35-37, 39, 40	CR 12/14/2022
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 21-40	CR 12/14/2022
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☒ Other Notes/Comments= (Note problems, concerns, corrective actions).	
- 22L0199 24 lost 5% of sample during end of sulfur clean	NRB 12/28/22
☒ Share Samples Y / (N)	CR 12/14/2022
☒ Multiple Jars Y / (N)	CR 12/14/2022
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Injection Date : 12/14/2022 9:40:18 PM Seq. Line : 21
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

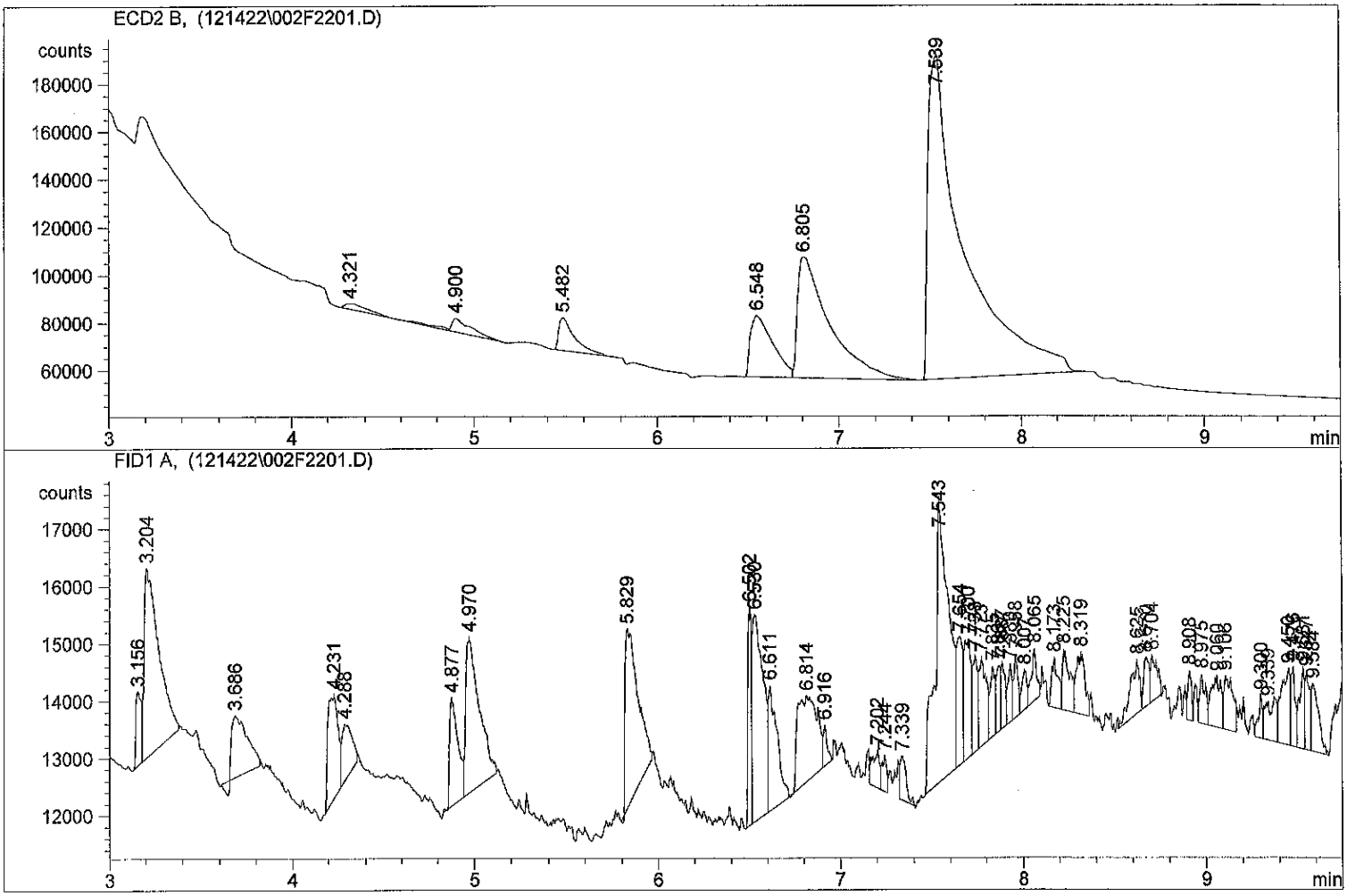
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

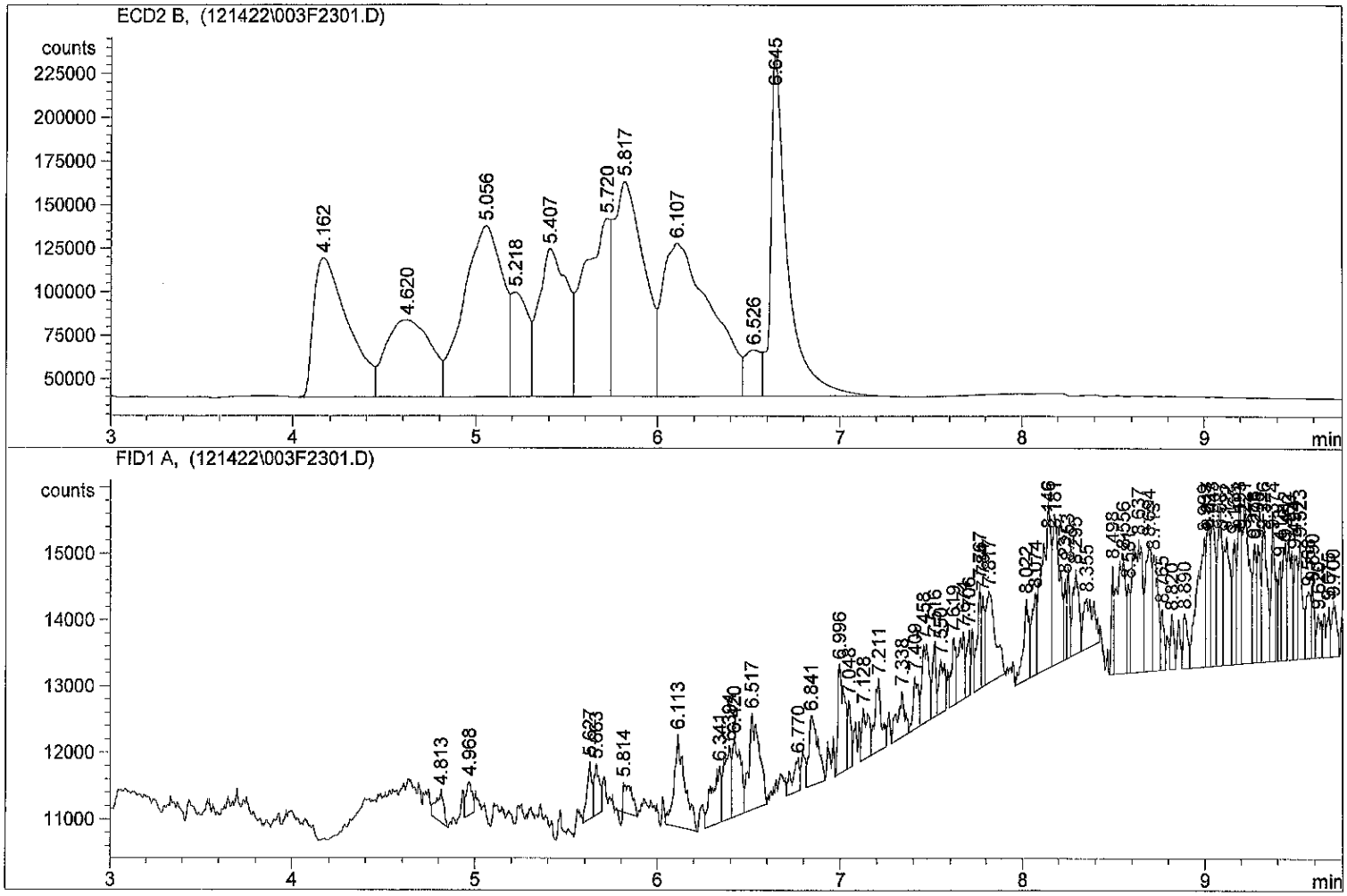
Data File C:\HPCHEM\1\DATA\121422\002F2201.D Sample Name: PNA STD 10PPM

Injection Date	: 12/14/2022 9:53:43 PM	Seq. Line	: 22
Sample Name	: PNA STD 10PPM	Location	: Vial 2
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



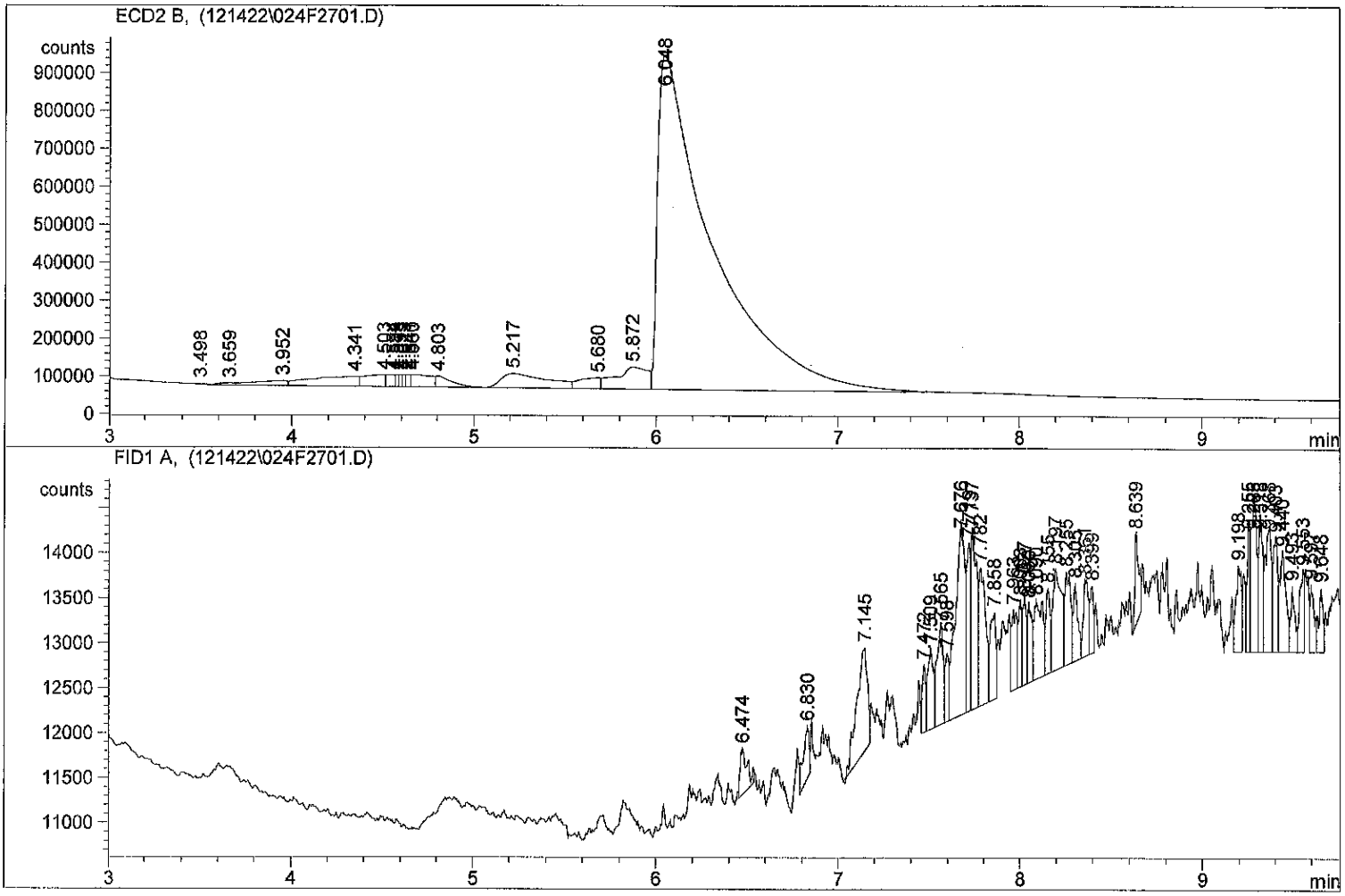
*** End of Report ***

Injection Date	: 12/14/2022 10:07:32 PM	Seq. Line	: 23
Sample Name	: AR1660 1PPM	Location	: Vial 3
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/14/2022 11:04:03 PM	Seq. Line	: 27
Sample Name	: 22L0199 21	Location	: Vial 24
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/14/2022 11:17:34 PM        Seq. Line :  28
Sample Name     : 22L0199 22                    Location : Vial 25
Acq. Operator   : CR                               Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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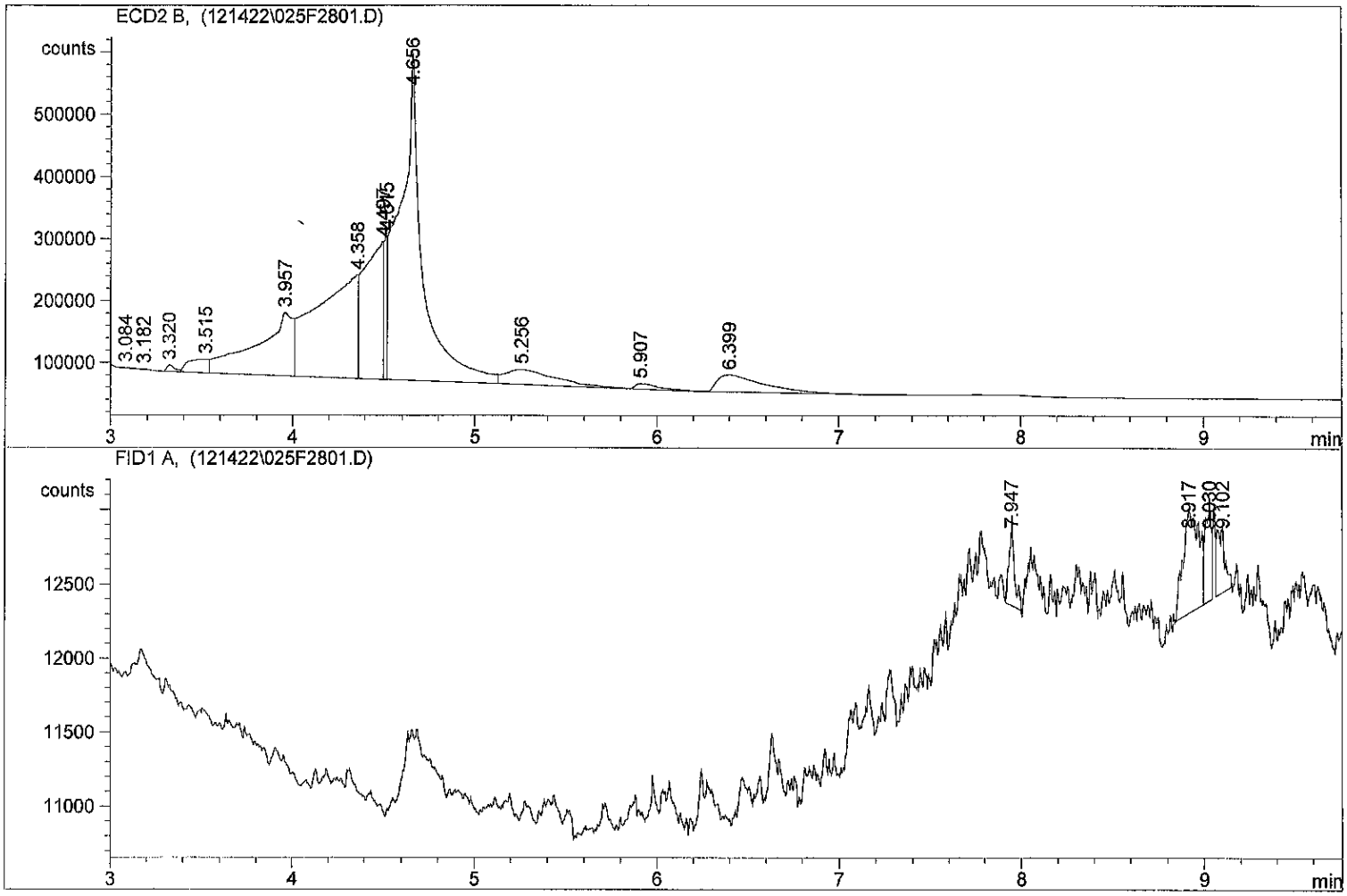
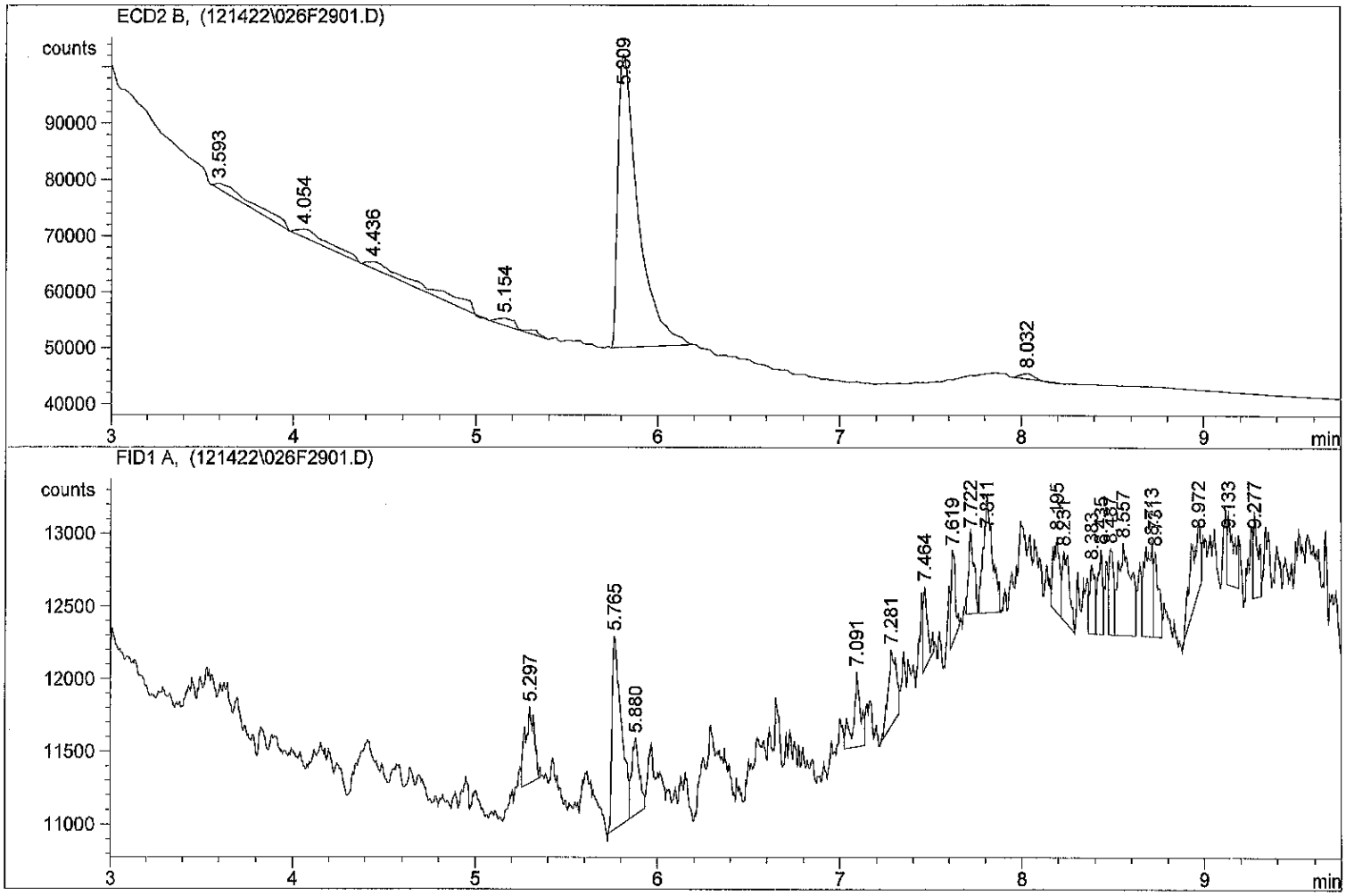


*** End of Report ***

Injection Date	: 12/14/2022 11:31:22 PM	Seq. Line	: 29
Sample Name	: 22L0199 23	Location	: Vial 26
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/14/2022 11:45:57 PM        Seq. Line :  30
Sample Name     : 22L0199 24                    Location : Vial 27
Acq. Operator   : CR                               Inj :  1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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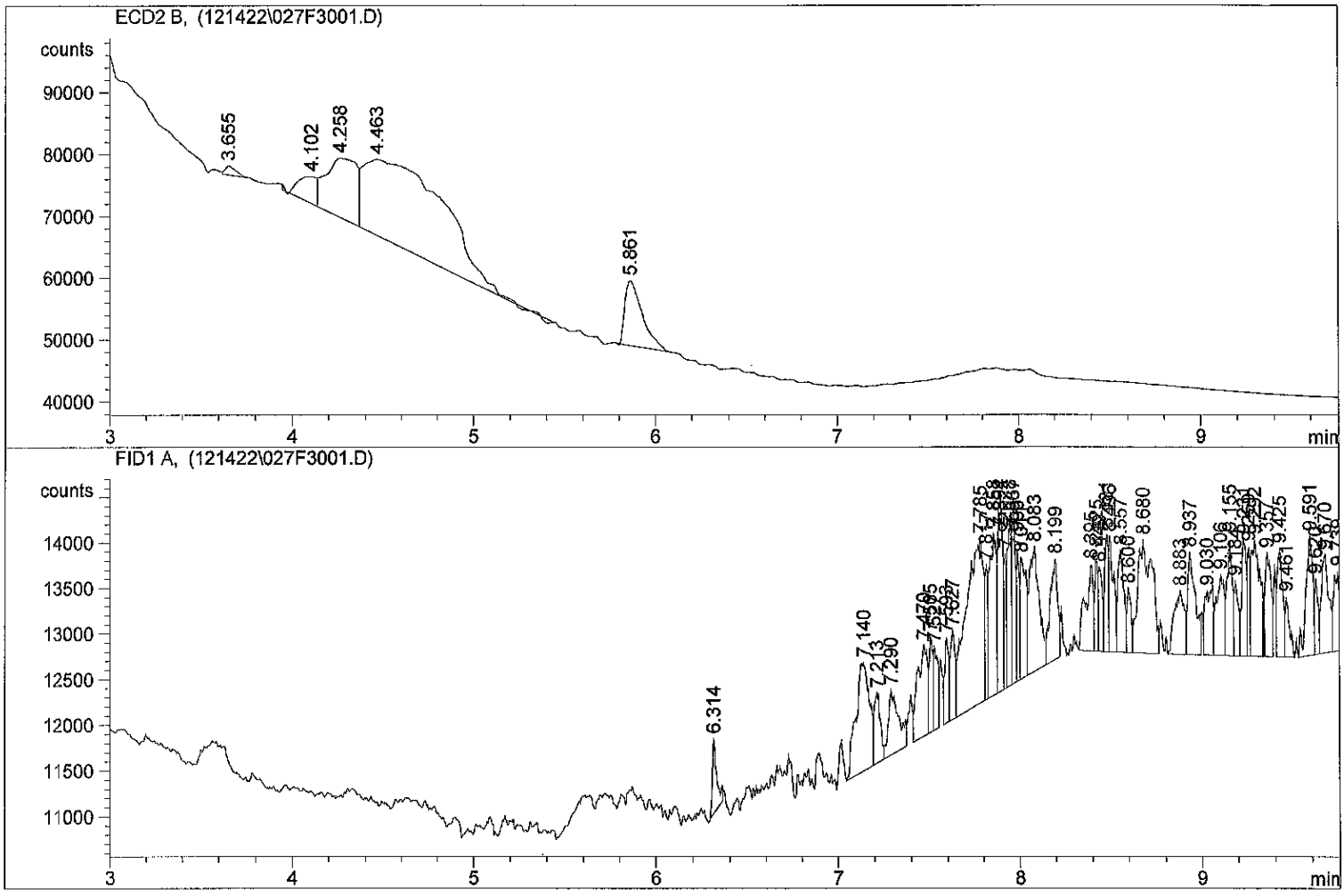

*** End of Report ***

```
==============================================================================
Injection Date  : 12/15/2022 12:00:35 AM        Seq. Line :  31
Sample Name     : 22L0199 25                    Location : Vial 28
Acq. Operator   : CR                               Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
==============================================================================
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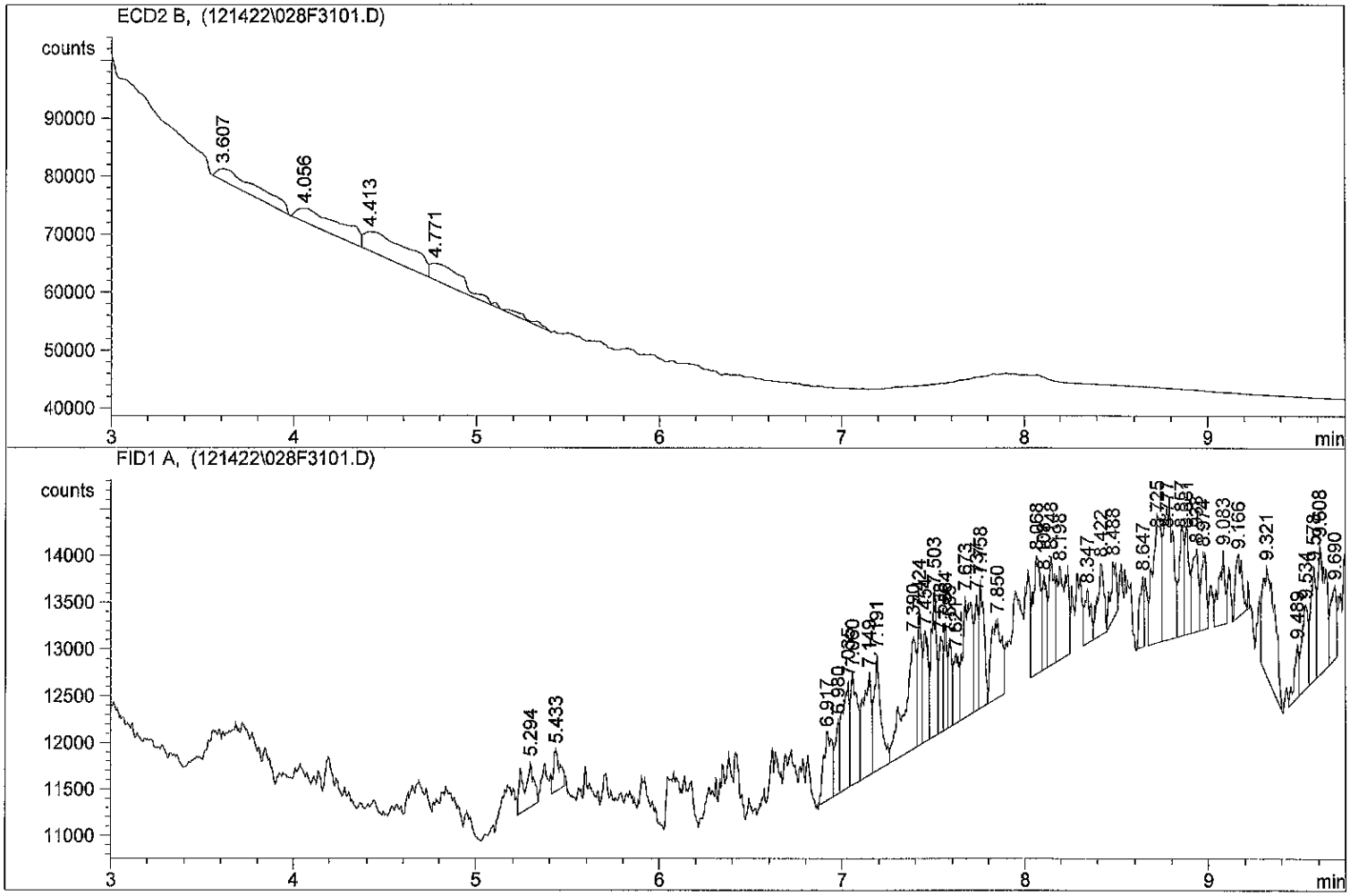
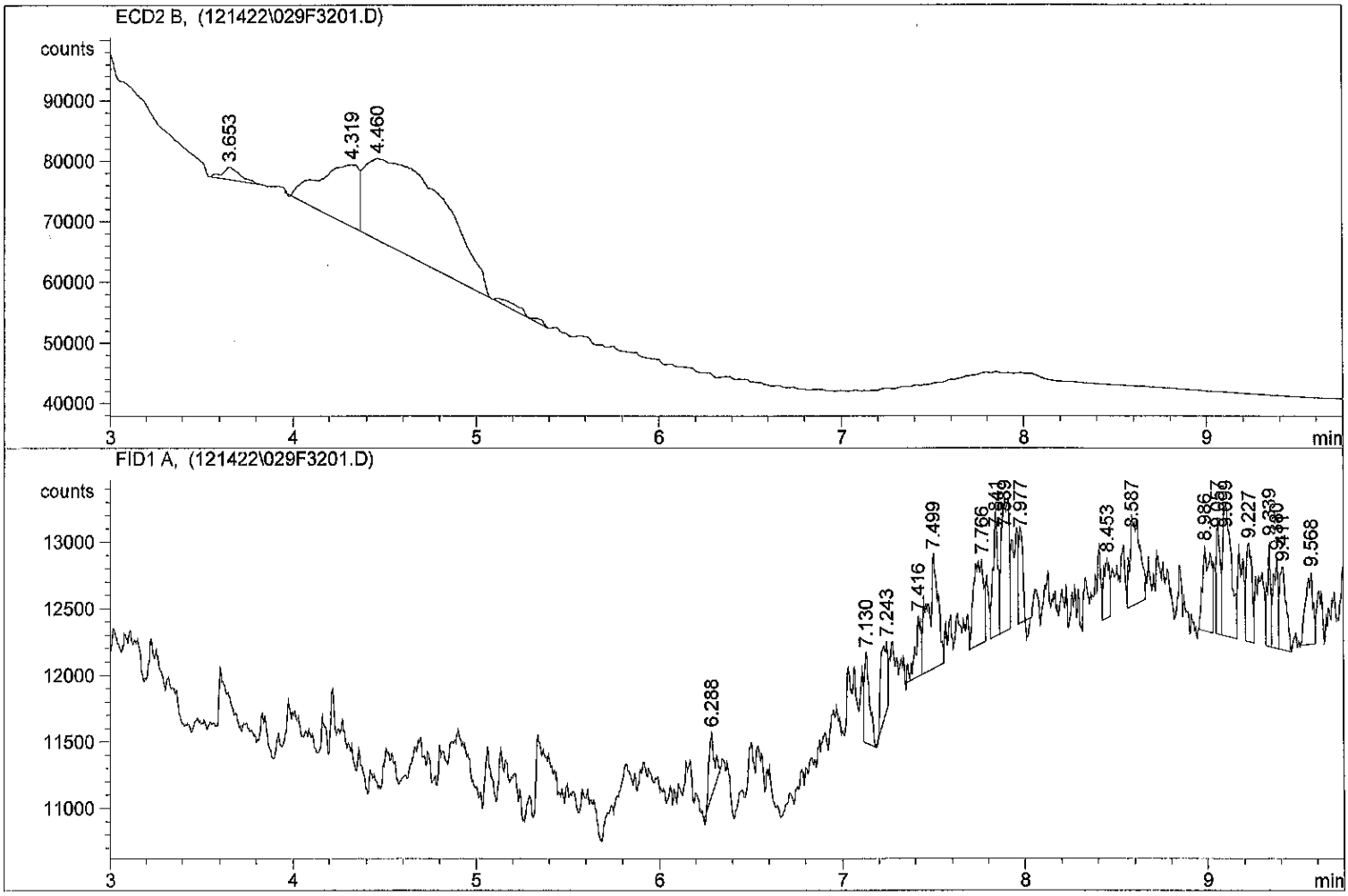


*** End of Report ***

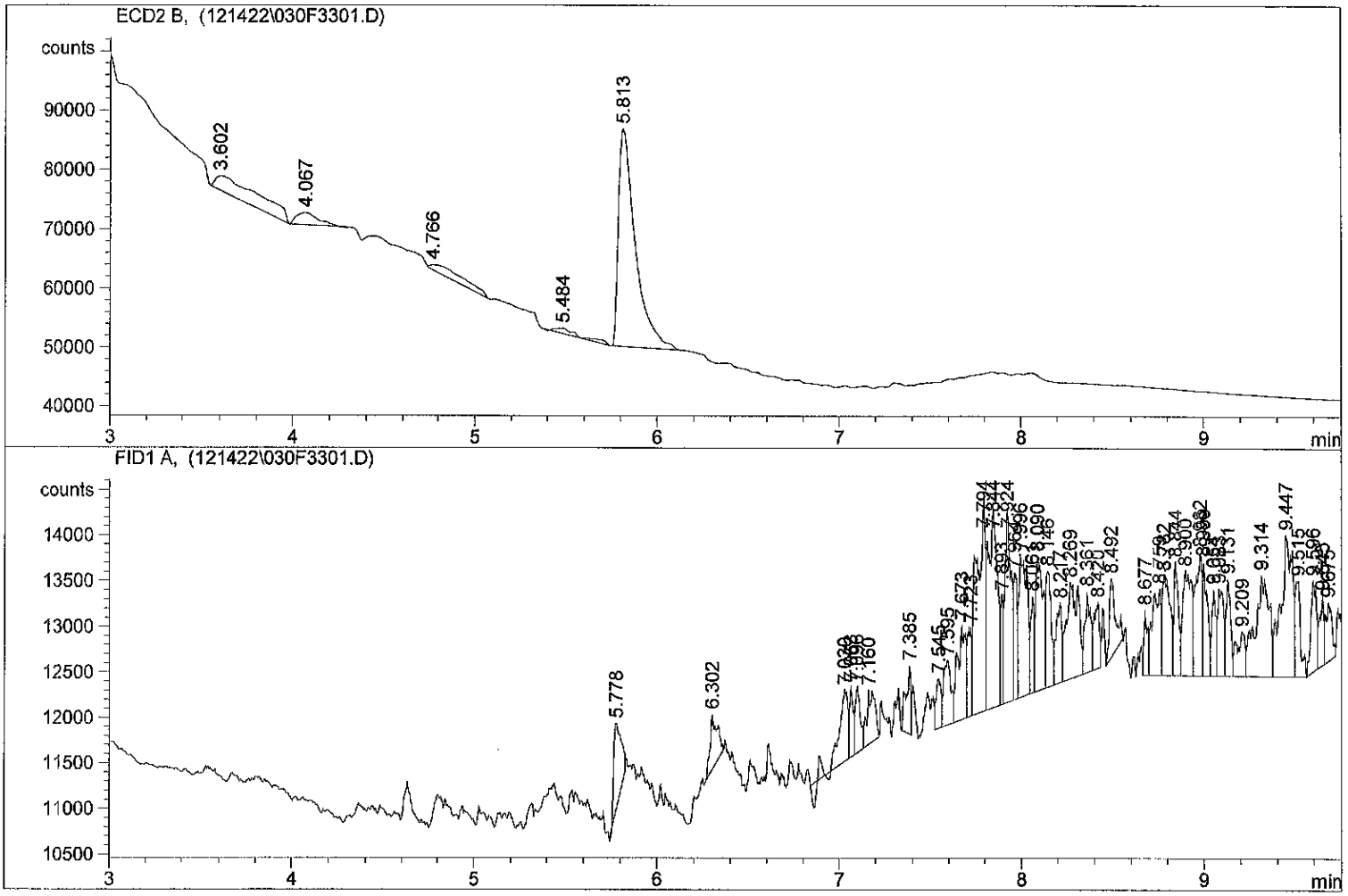
```
Injection Date  : 12/15/2022 12:15:10 AM        Seq. Line :  32
Sample Name     : 22L0199 26                    Location : Vial 29
Acq. Operator   : CR                               Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
```



*** End of Report ***

Injection Date : 12/15/2022 12:29:44 AM Seq. Line : 33
Sample Name : 22L0199 27 Location : Vial 30
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

```
Injection Date  : 12/15/2022 12:43:08 AM        Seq. Line :  34
Sample Name     : 22L0199 28                    Location : Vial 31
Acq. Operator   : CR                               Inj :  1
                                                Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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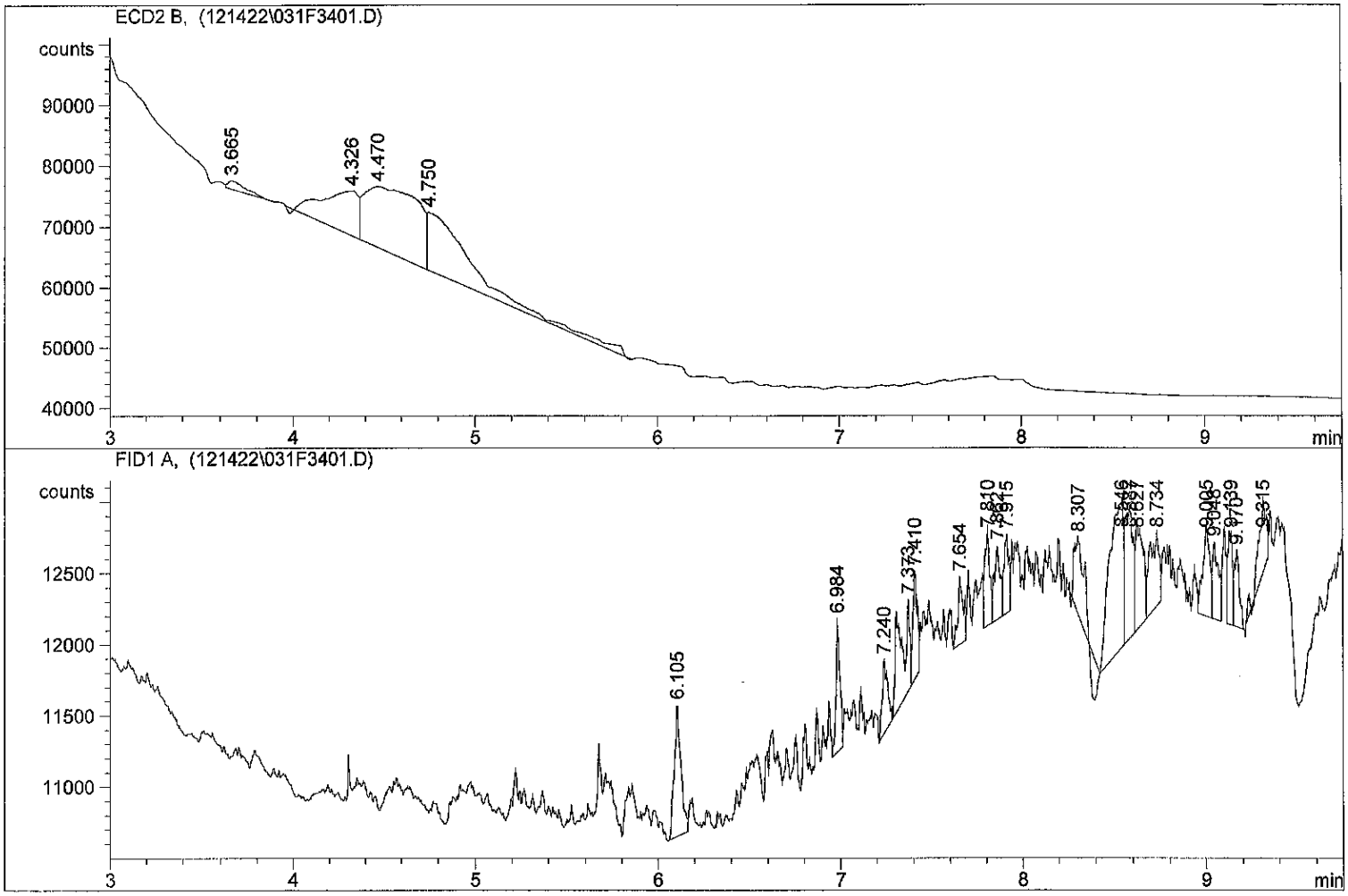
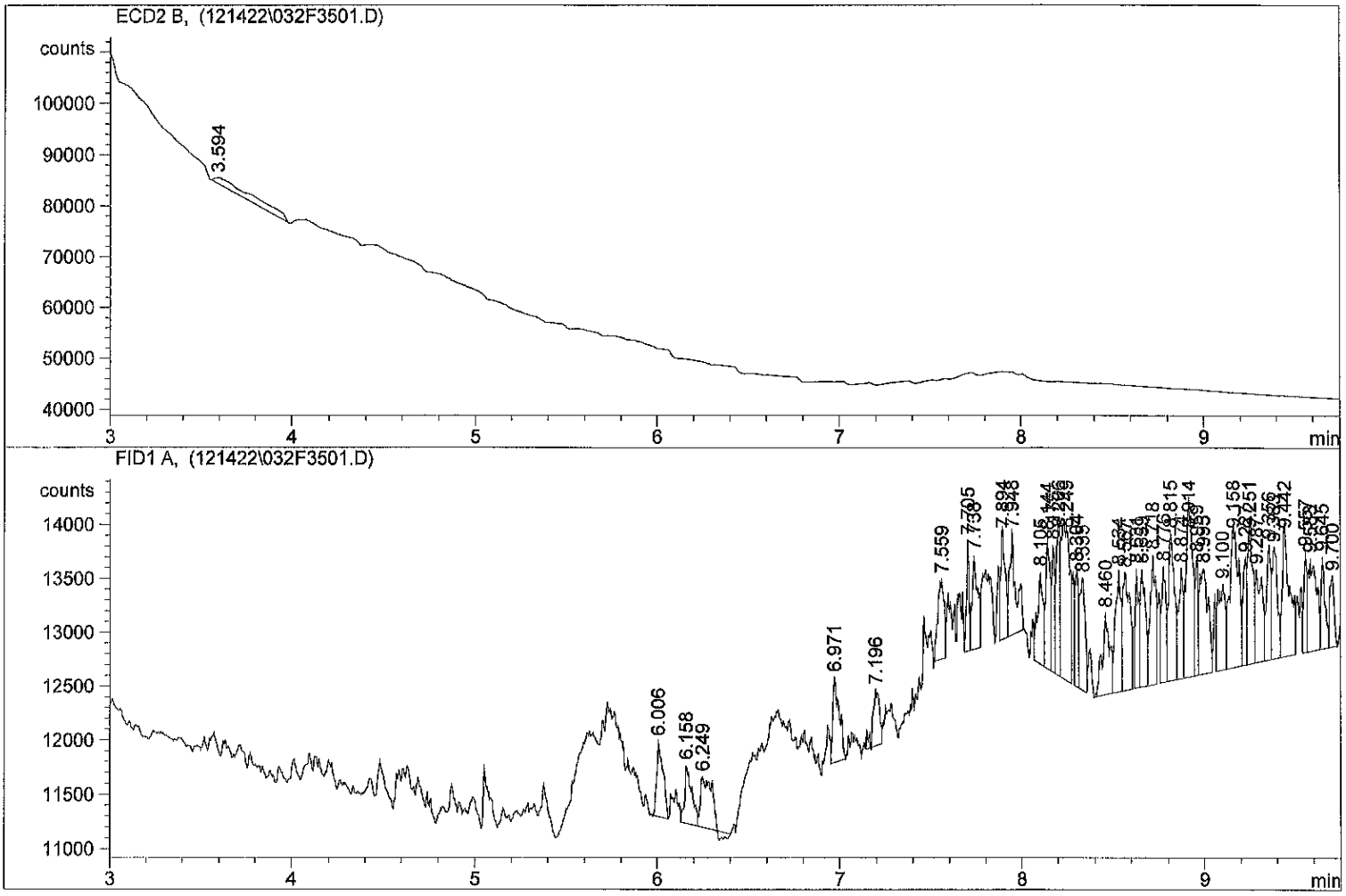


*** End of Report ***

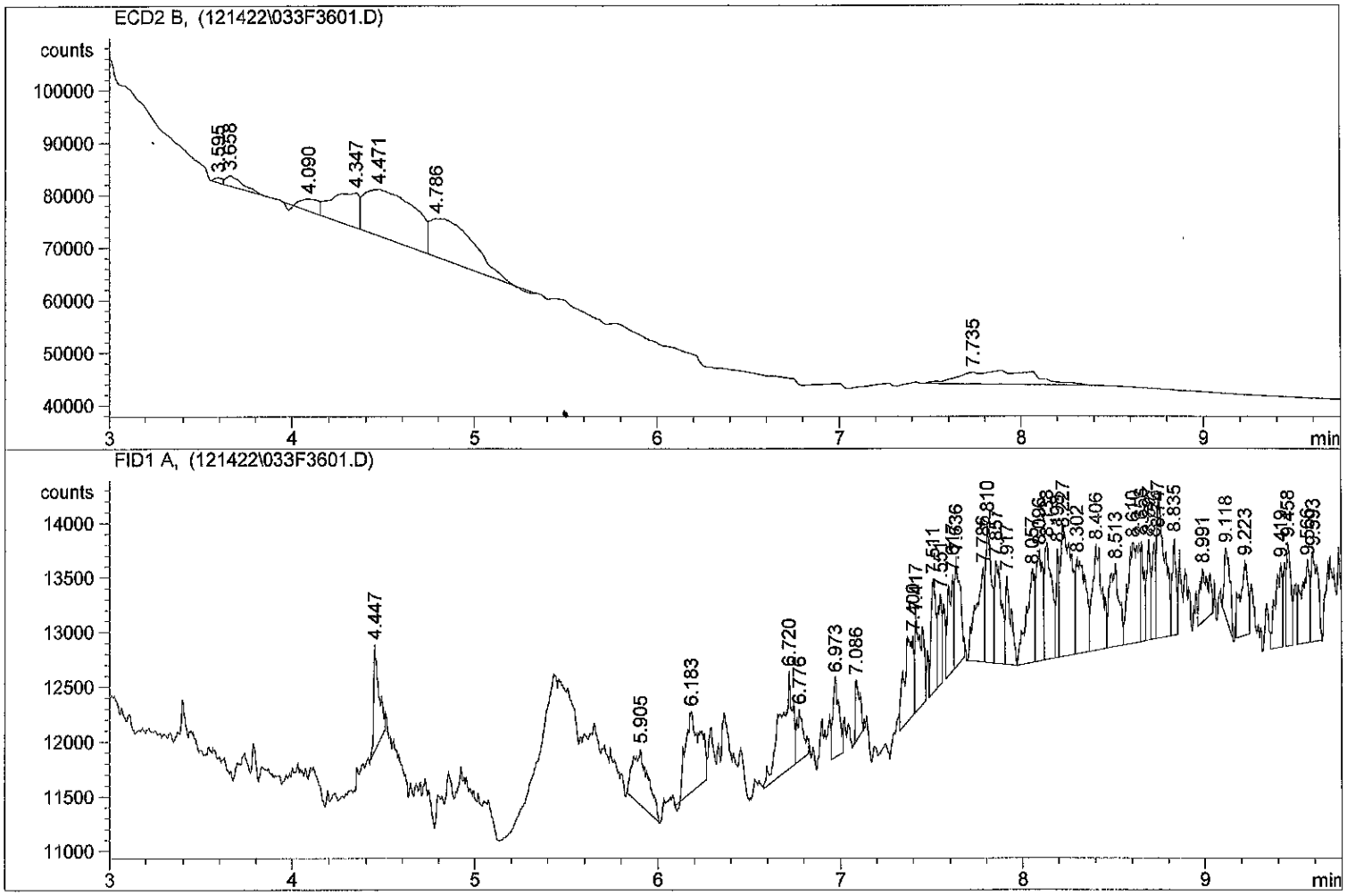
```
==========================================================================
Injection Date  : 12/15/2022 12:56:56 AM        Seq. Line :  35
Sample Name     : 22L0199 29                    Location : Vial 32
Acq. Operator   : CR                               Inj :  1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
==========================================================================
```



*** End of Report ***

```
Injection Date  : 12/15/2022 1:11:32 AM          Seq. Line :  36
Sample Name     : 22L0199 30                     Location : Vial 33
Acq. Operator   : CR                                 Inj :  1
                                                 Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
```



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\034F3701.D Sample Name: 22L0199 31

```
==========================================================================
Injection Date  : 12/15/2022 1:25:04 AM          Seq. Line :  37
Sample Name     : 22L0199 31                     Location : Vial 34
Acq. Operator   : CR                                 Inj :  1
                                                 Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
==========================================================================
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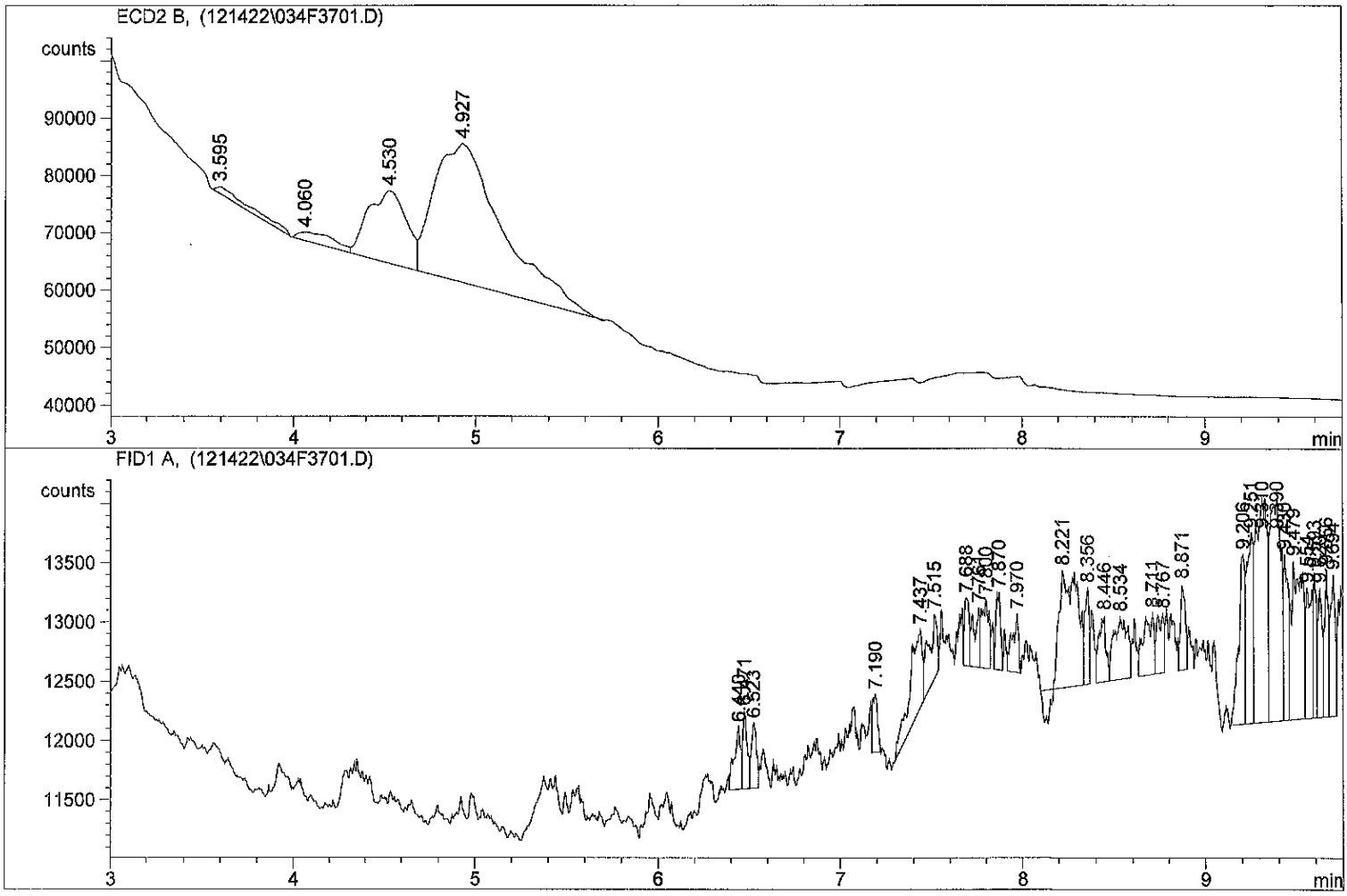
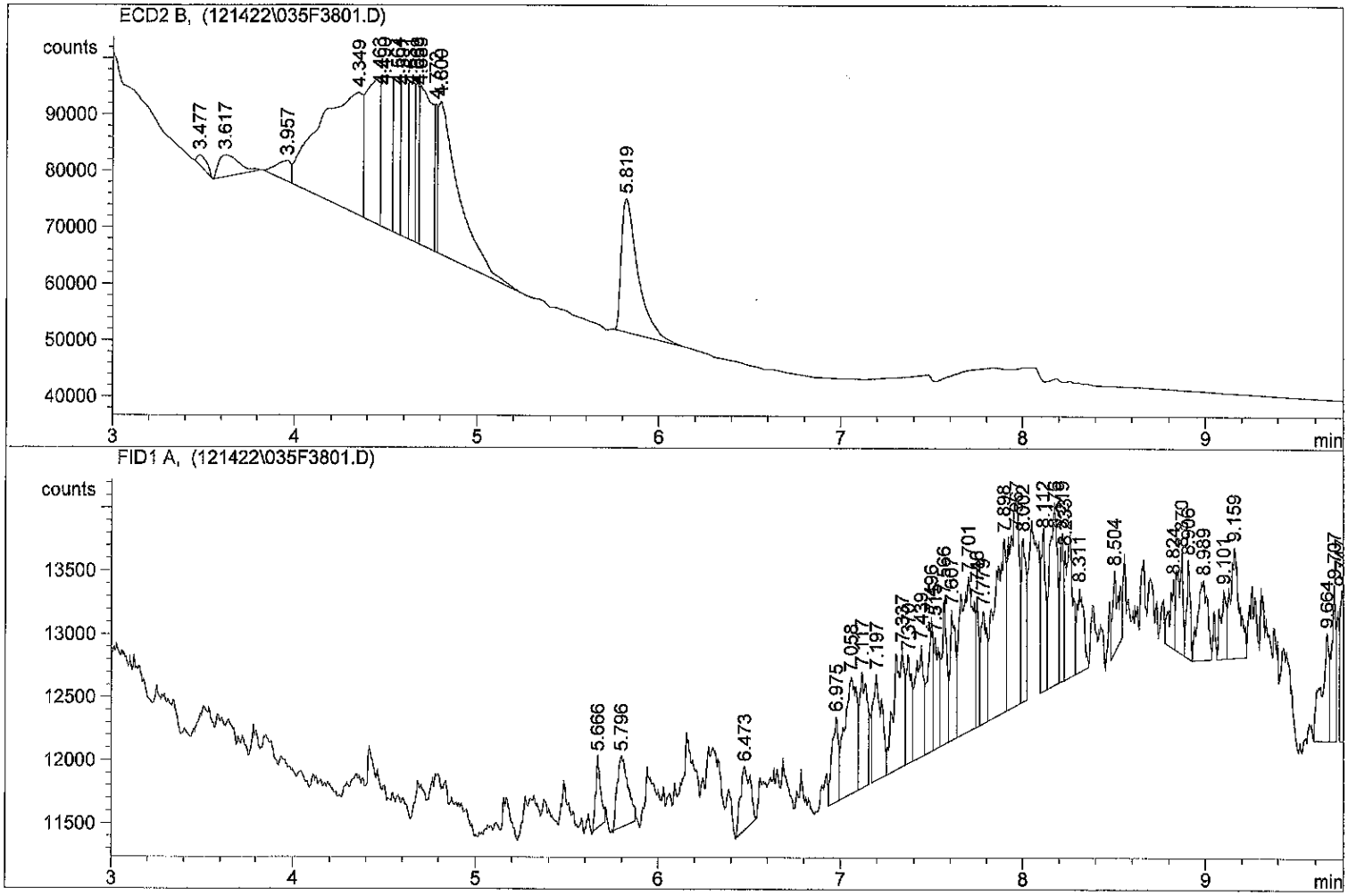


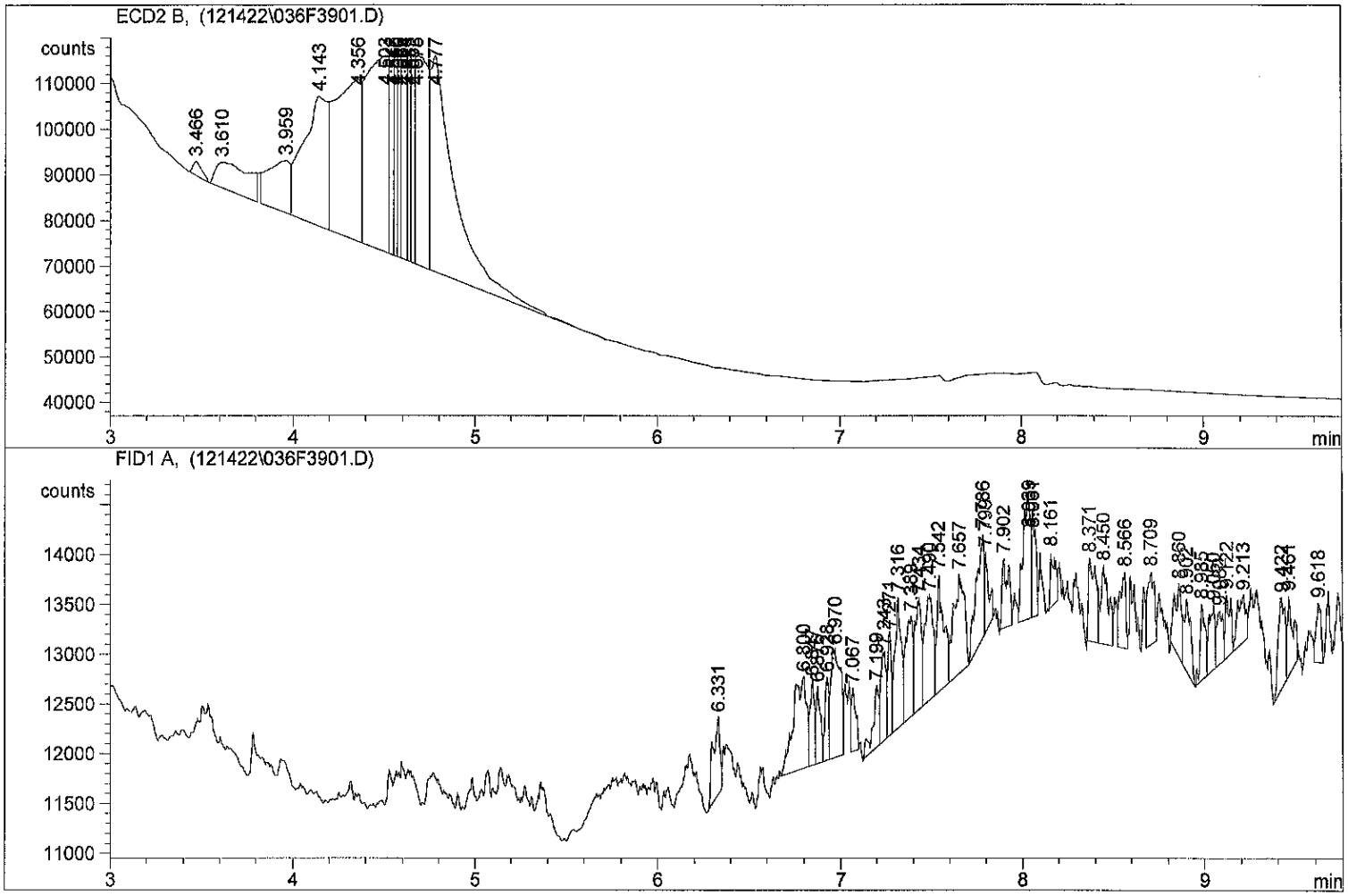
*** End of Report ***

Injection Date	: 12/15/2022 1:38:54 AM	Seq. Line	: 38
Sample Name	: 22L0199 32	Location	: Vial 35
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



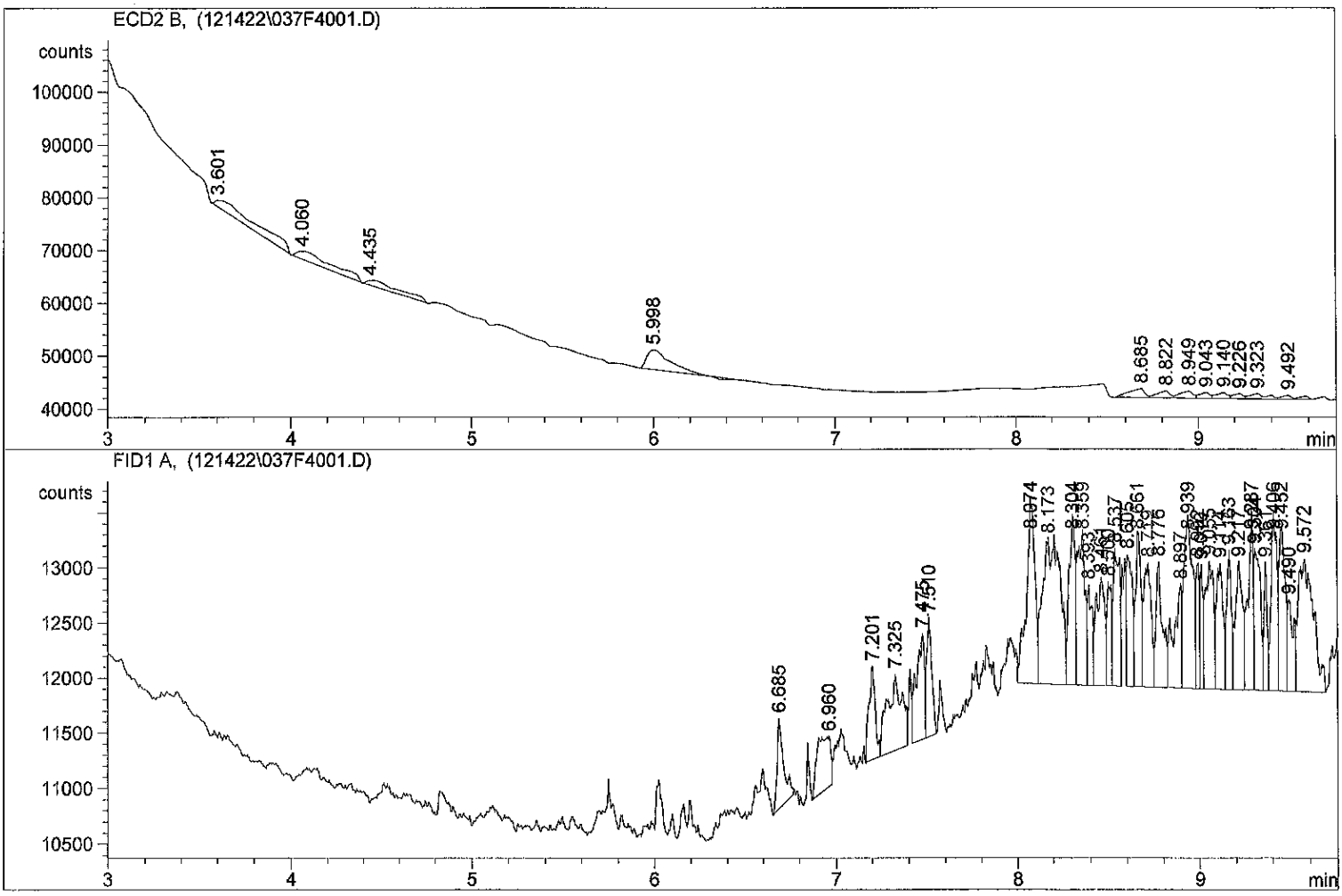
*** End of Report ***

Injection Date	: 12/15/2022 1:53:29 AM	Seq. Line	: 39
Sample Name	: 22L0199 33	Location	: Vial 36
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/15/2022 2:05:24 AM	Seq. Line	: 40
Sample Name	: 22L0199 34	Location	: Vial 37
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/15/2022 2:24:37 AM          Seq. Line :  41
Sample Name     : 22L0199 35                    Location : Vial 38
Acq. Operator   : CR                               Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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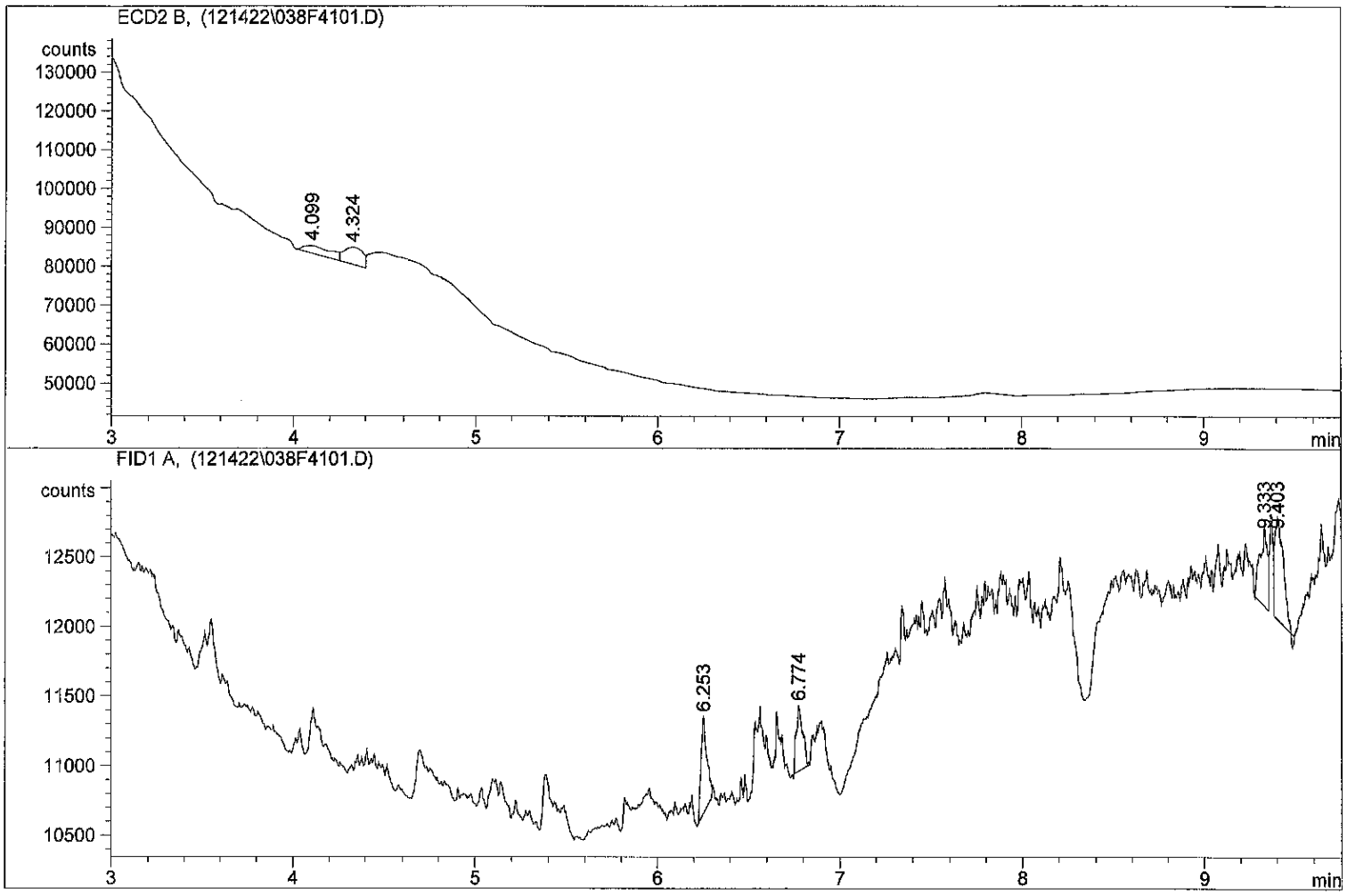

*** End of Report ***

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0404 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC787F	22L0199-41	01052370ECD7.D	12/19/22 13:40	
LDW22-SC787G	22L0199-42	01052371ECD7.D	12/19/22 13:40	
LDW22-SC787H	22L0199-43	12292237ECD7.D	12/19/22 13:40	
LDW22-SC787I	22L0199-44	01032327ECD7.D	12/19/22 13:40	
LDW22-SC787J	22L0199-45	01032328ECD7.D	12/19/22 13:40	
LDW22-SC787K	22L0199-46	12272222ECD7.D	12/19/22 13:40	
LDW22-SC787L	22L0199-47	12272223ECD7.D	12/19/22 13:40	
LDW22-SC761A	22L0199-48	12272224ECD7.D	12/19/22 13:40	
LDW22-SC761B	22L0199-49	12312253ECD7.D	12/19/22 13:40	
LDW22-SC761C	22L0199-50	12312254ECD7.D	12/19/22 13:40	
LDW22-SC761D	22L0199-51	12312255ECD7.D	12/19/22 13:40	
LDW22-SC761D-FD	22L0199-52	12312256ECD7.D	12/19/22 13:40	
LDW22-SC761E	22L0199-53	12272231ECD7.D	12/19/22 13:40	
LDW22-SC761F	22L0199-54	12312257ECD7.D	12/19/22 13:40	
LDW22-SC761G	22L0199-55	12272233ECD7.D	12/19/22 13:40	
LDW22-SC761H	22L0199-56	12272234ECD7.D	12/19/22 13:40	
LDW22-SC761I	22L0199-57	12272235ECD7.D	12/19/22 13:40	
LDW22-SC761J	22L0199-58	12272236ECD7.D	12/19/22 13:40	
LDW22-SC761K	22L0199-59	12272237ECD7.D	12/19/22 13:40	
LDW22-SC761L	22L0199-60	12272238ECD7.D	12/19/22 13:40	
Blank	BKL0404-BLK1	12272209ECD7.D	12/19/22 13:40	
LCS	BKL0404-BS1	12272210ECD7.D	12/19/22 13:40	
LCS Dup	BKL0404-BSD1	12272211ECD7.D	12/19/22 13:40	
LDW22-SC787K	BKL0404-MS1	12272213ECD7.D	12/19/22 13:40	
LDW22-SC787K	BKL0404-MSD1	12272214ECD7.D	12/19/22 13:40	
Reference	BKL0404-SRM1	12272212ECD7.D	12/19/22 13:40	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0404

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 12/19/22 **Balance ID:** B14646614 **Set Up By:** CTO 12/15/22

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0199-41 B	55.4	(22.58) 22.59	5mL	5mL	2mL	2.5	1.0	
22L0199-42 B	57.1	(21.89) 21.94	5mL	5mL	2mL	2.5	1.0	
22L0199-43 B	62.8	(19.92) 19.96	5mL	5mL	2mL	2.5	1.0	
22L0199-44 B	61.7	(20.27) 20.31	5mL	5mL	2mL	2.5	1.0	
22L0199-45 B	60.5	(20.67) 20.70	5mL	5mL	2mL	2.5	1.0	
22L0199-46 B	79.9	(15.64) 15.65	5mL	5mL	2mL	2.5	1.0	
22L0199-47 B	76.2	(16.40) 16.48	5mL	5mL	2mL	2.5	1.0	
22L0199-48 B	54.6	(22.92) 22.97	5mL	5mL	2mL	2.5	1.0	
22L0199-49 B	56.9	(21.97) 21.99	5mL	5mL	2mL	2.5	1.0	
22L0199-50 B	56.3	(22.22) 22.22	5mL	5mL	2mL	2.5	1.0	
22L0199-51 B	59.6	(20.96) 20.98	5mL	5mL	2mL	2.5	1.0	
22L0199-52 B	60.5	(20.65) 20.68	5mL	5mL	2mL	2.5	1.0	
22L0199-53 B	76.9	(16.26) 16.26	5mL	5mL	2mL	2.5	1.0	
22L0199-54 B	65.3	(19.13) 19.16	5mL	5mL	2mL	2.5	1.0	
22L0199-55 B	69.1	(18.08) 18.14	5mL	5mL	2mL	2.5	1.0	
22L0199-56 B	64.9	(19.25) 19.28	5mL	5mL	2mL	2.5	1.0	
22L0199-57 B	65.7	(19.03) 19.12	5mL	5mL	2mL	2.5	1.0	
22L0199-58 B	72.6	(17.23) 17.24	5mL	5mL	2mL	2.5	1.0	
22L0199-59 B	74.5	(16.78) 16.81	5mL	5mL	2mL	2.5	1.0	
22L0199-60 B	78.1	(16.01) 16.07	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0404-BLK1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0404-BS1	100.0	(12.50) 12.54	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0404-BSD1	100.0	(12.50) 12.56	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0404-MS1	79.9	(15.64) 15.64	5mL	5mL	2mL	2.5	1.0	Use 22L0199-46
BKL0404-MSD1	79.9	(15.64) 15.64	5mL	5mL	2mL	2.5	1.0	Use 22L0199-46
BKL0404-SRM1	100.0	~~(12.50)~~ (2.50) 2.50	5mL	5mL	2mL	2.5	1.0	Use K003525 KQ108151

+1g DI WATER

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0404

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Client ID Verified By	Date	Preparation Reviewed By	Date	Extraction Date and Time
MB	12/19/22	LJ	12/27/22	12/19/22 13:40

Printed: 12/15/2022 1:02:41PM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0404

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 2 3
LJ 12/19/22
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 5 6
LJ 12/21/22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 4 5
NRB 12/27/22
Analyst/Date

TurboVap
Post Cleanups
1 2 3 4 5
LJ 12/27/22
Analyst/Date

Vialing
LJ 12/27/22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: NJ/CT Date: 12/19/22	
Neutral Glass Wool	K011266
1:1 Hexane/Acetone	K011389
Hexane	K011373
Anhydrous Sodium Sulfate	K011562
KD Analyst: LJ Date: 12/21/22	
Anhydrous Sodium Sulfate	N/A
Hexane	K011373
Vialing Analyst: LJ Date: 12/27/22	
Hexane	K011373
Concentrated Sulfuric Acid	K010364
Silica Gel (SPE) Darts	K011573
Sodium Sulfite	K003744
Tetrabutylammonium hydrogensulfate (TBAS)	K011530

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K010600 (V) Exp Date: 1/23/2023	50µL	CT	LJ
Spike 20µg/mL	1 K008150 (V) Exp Date: 3/5/2023	63µL	CT	LJ

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0404

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PCB Extraction Batch: BKL0404

Total Solids Batch: BKL0344 Work Order(s): 22L0199 41-60

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 46, 53, 60.	VJ 12/14/22
[X] Standing Water Decanted (Not shared)= 41, 42, 46 – 60.	VJ 12/14/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[X] Oily, obvious fuel/sulfur odors= fuel odor = 43, 44, 45, 48, 54, 56. sulfur odor = 41, 42, 47, 49, 51, 52, 54, 55, 57, 58, 59	VJ 12/14/22
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 41 – 60.	VJ 12/14/22
[ ] Other (Details)=	
Aqueous:	
[-] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / N	VJ 12/14/22
[X] Multiple Jars Y / N	VJ 12/14/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

```
==============================================================================
Injection Date  : 12/15/2022 3:06:37 AM          Seq. Line :  44
Sample Name     : DCM RINSE                       Location : Vial 1
Acq. Operator   : CR                                 Inj :  1
                                                 Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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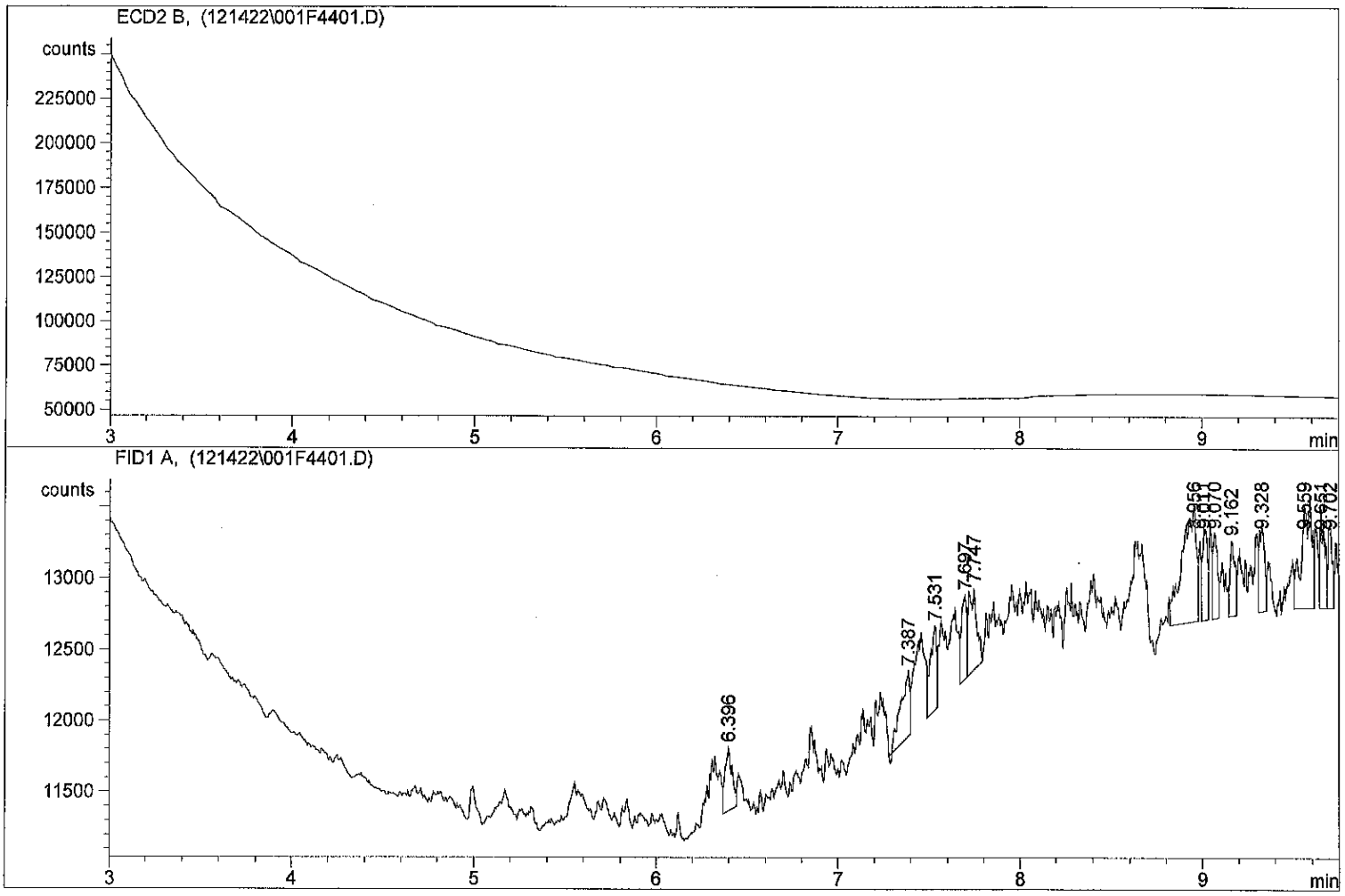

*** End of Report ***

```
Injection Date   : 12/15/2022 3:21:15 AM          Seq. Line :  45
Sample Name      : PNA STD 10PPM                  Location : Vial 2
Acq. Operator    : CR                                 Inj :  1
                                                  Inj Volume : 1 µl
Sequence File    : C:\HPCHEM\1\SEQUENCE\121422.S
Method           : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed     : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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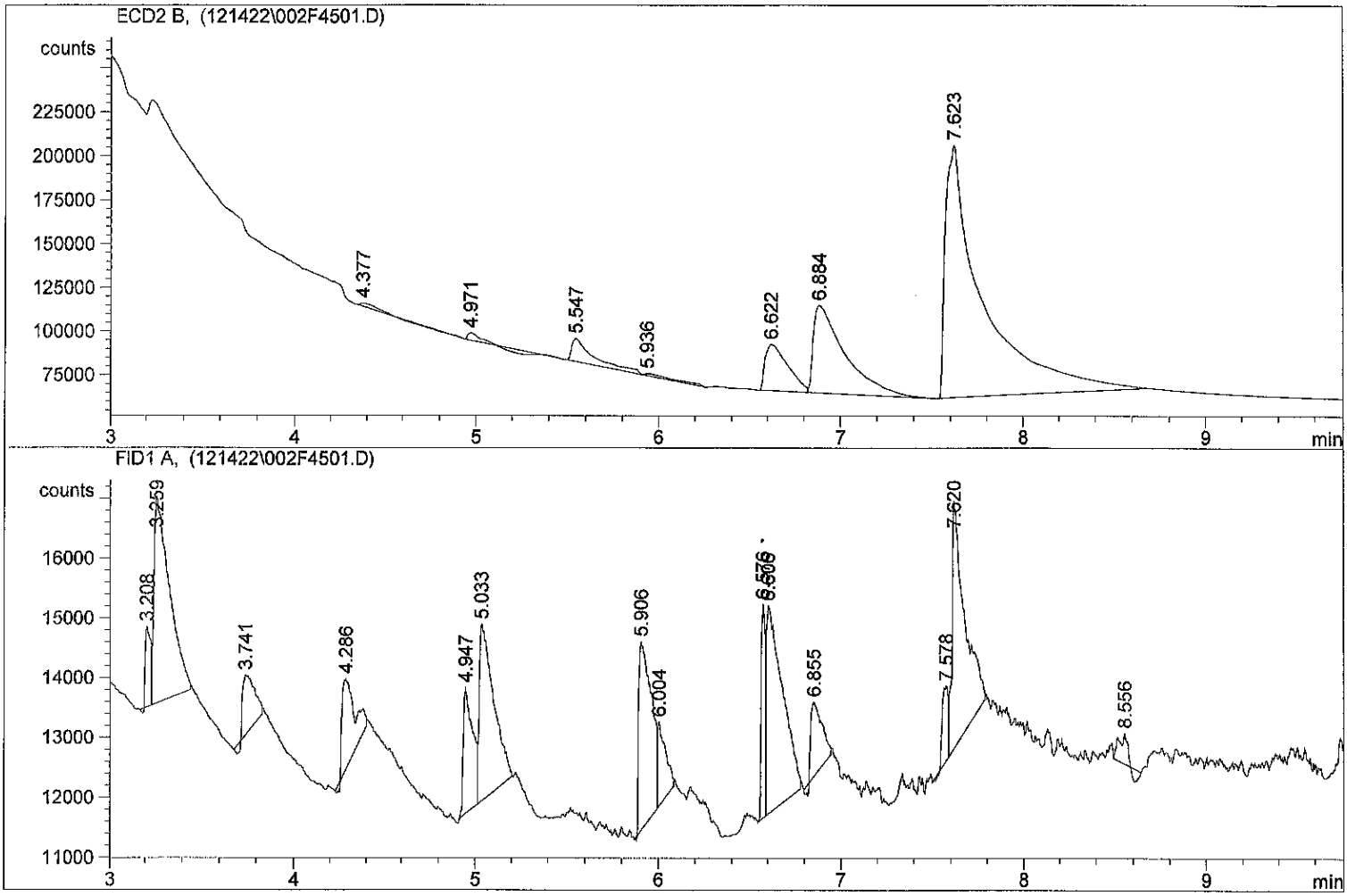
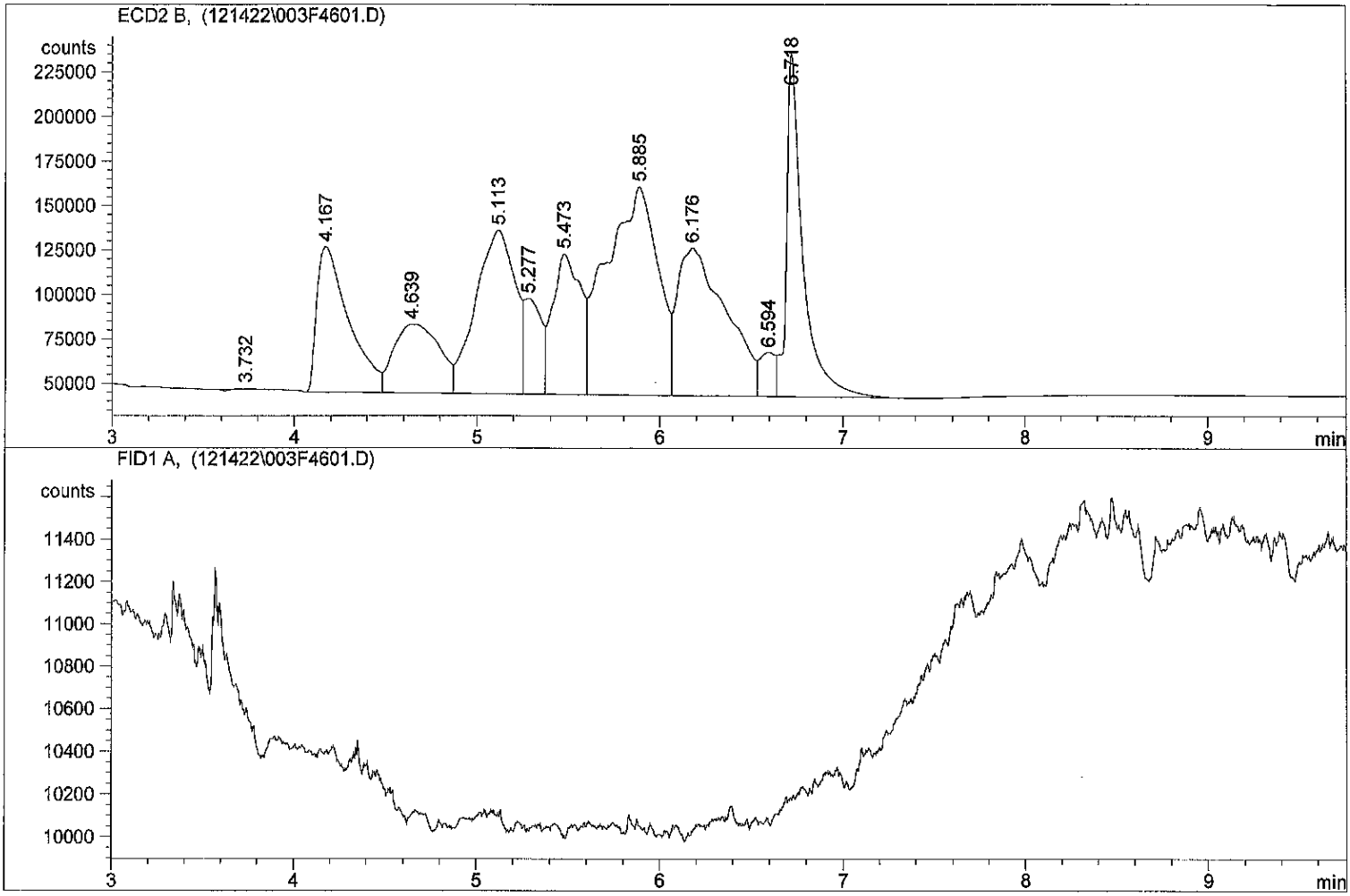


*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\003F4601.D Sample Name: AR1660 1PPM

Injection Date : 12/15/2022 3:35:43 AM Seq. Line : 46
Sample Name : AR1660 1PPM Location : Vial 3
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\044F5001.D Sample Name: 22L0199 41

```
Injection Date  : 12/15/2022 4:31:00 AM        Seq. Line :  50
Sample Name     : 22L0199 41                   Location : Vial 44
Acq. Operator   : CR                              Inj :  1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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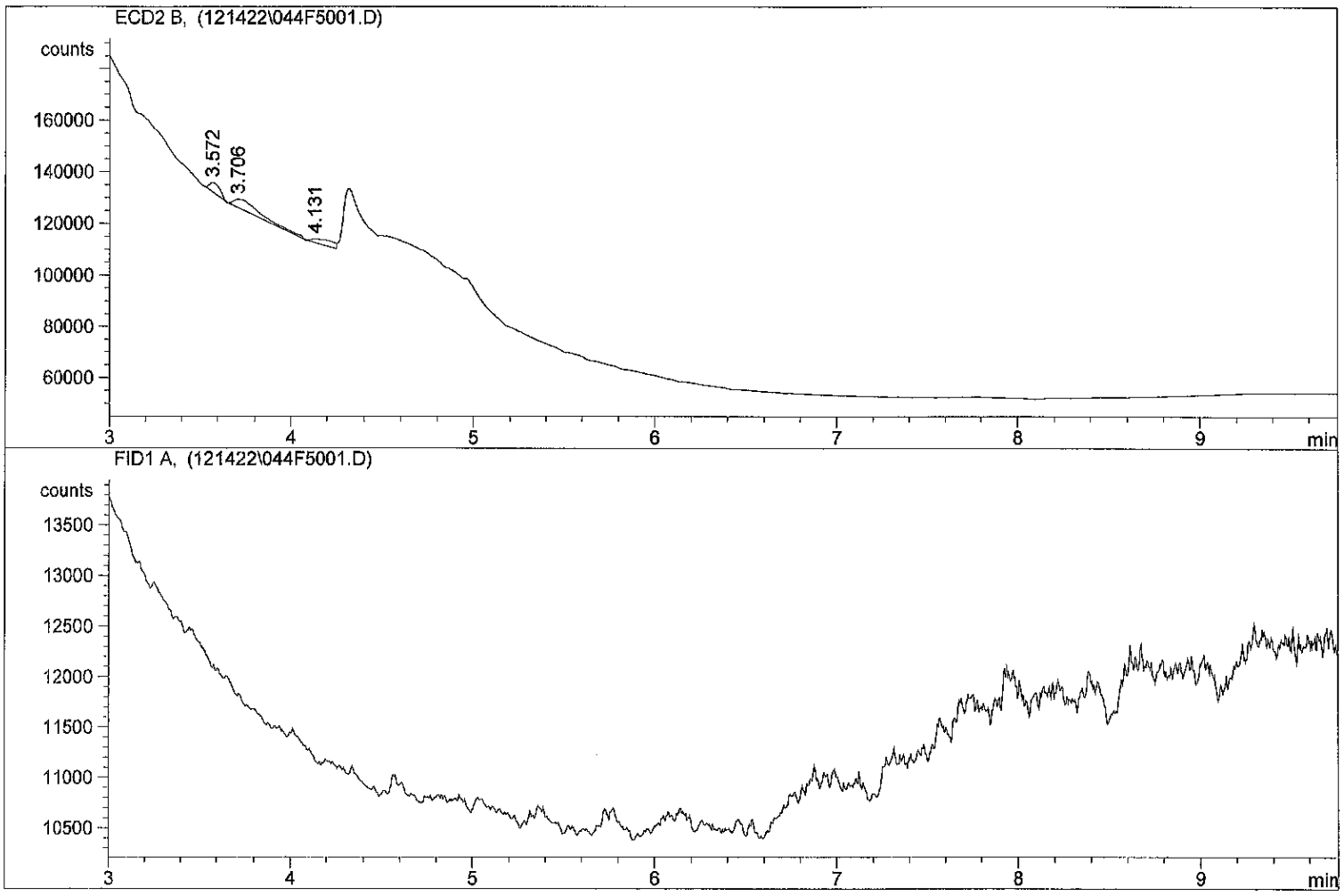
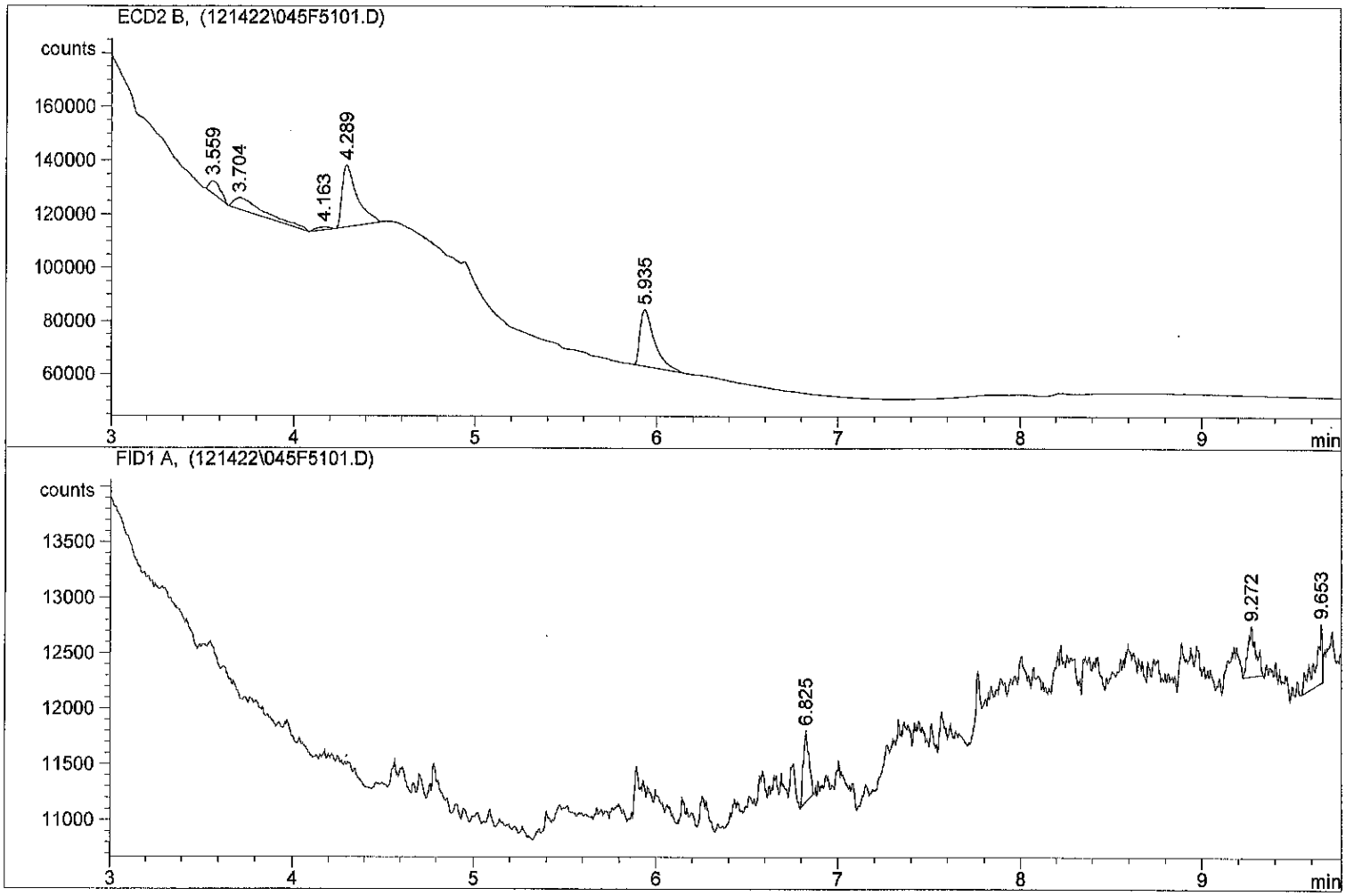


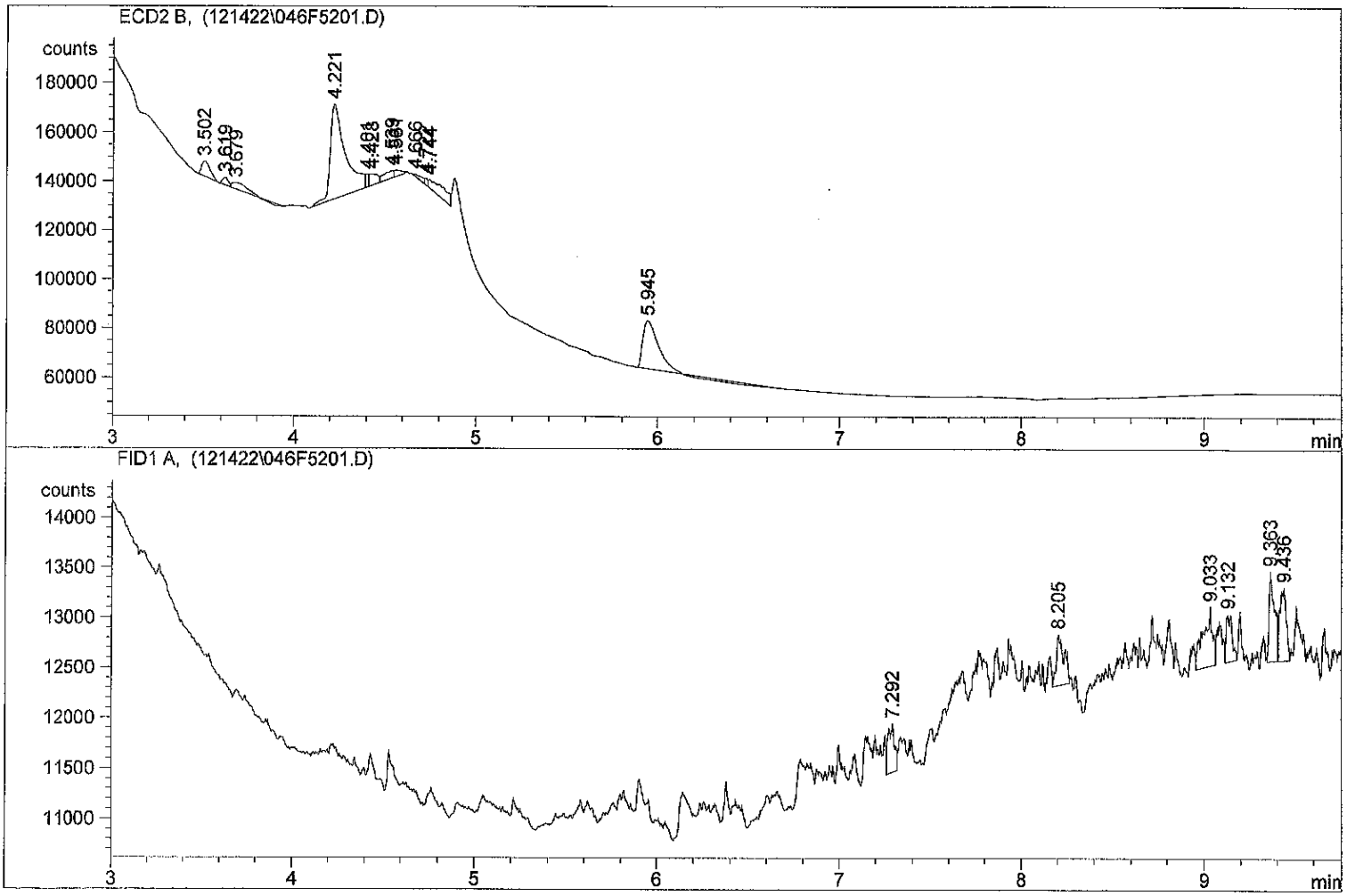
*** End of Report ***

Injection Date	: 12/15/2022 4:44:42 AM	Seq. Line	: 51
Sample Name	: 22L0199 42	Location	: Vial 45
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/15/2022 4:58:18 AM	Seq. Line	: 52
Sample Name	: 22L0199 43	Location	: Vial 46
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/15/2022 5:11:57 AM        Seq. Line :  53
Sample Name     : 22L0199 44                    Location : Vial 47
Acq. Operator   : CR                               Inj :   1
                                              Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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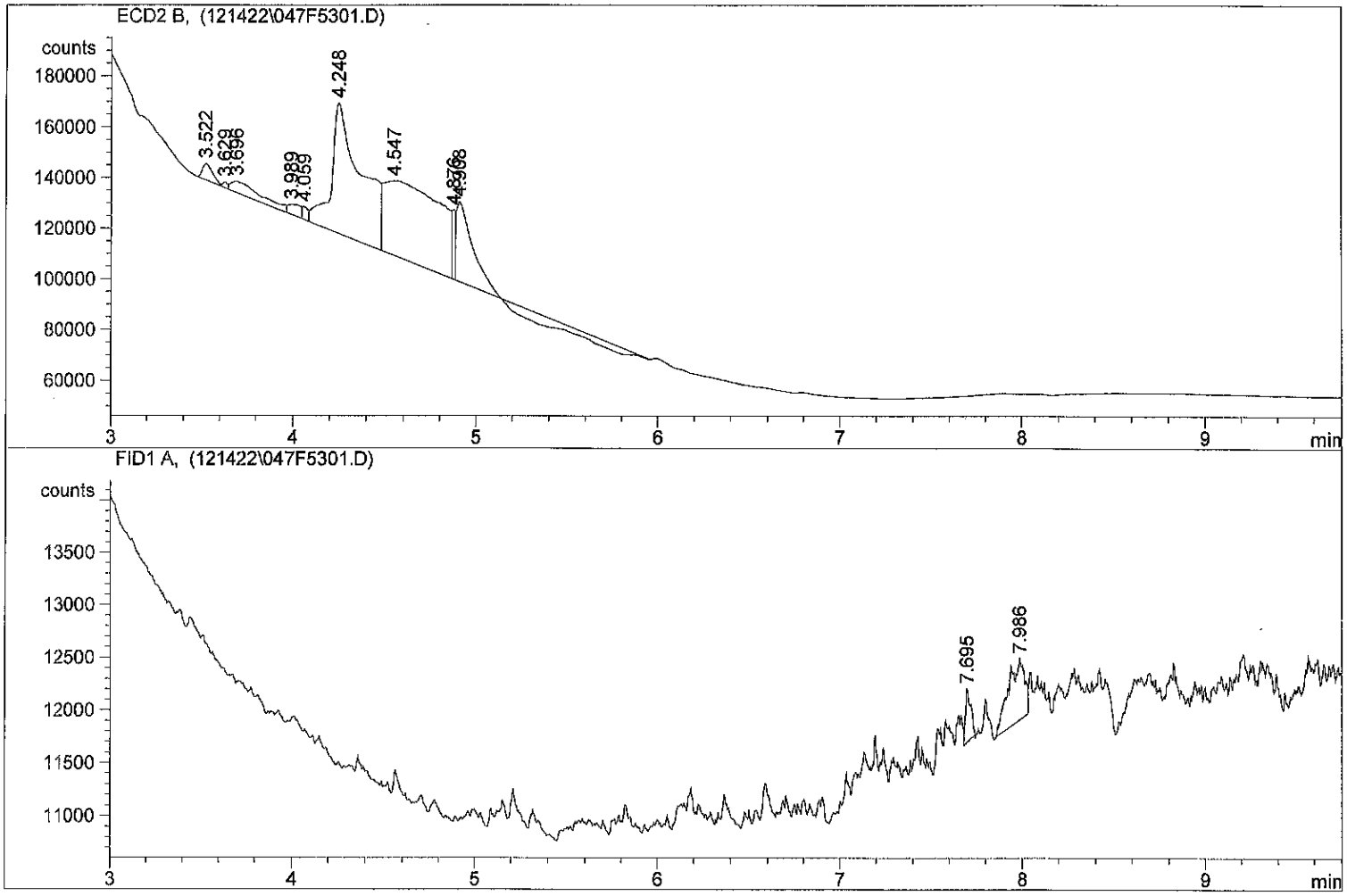
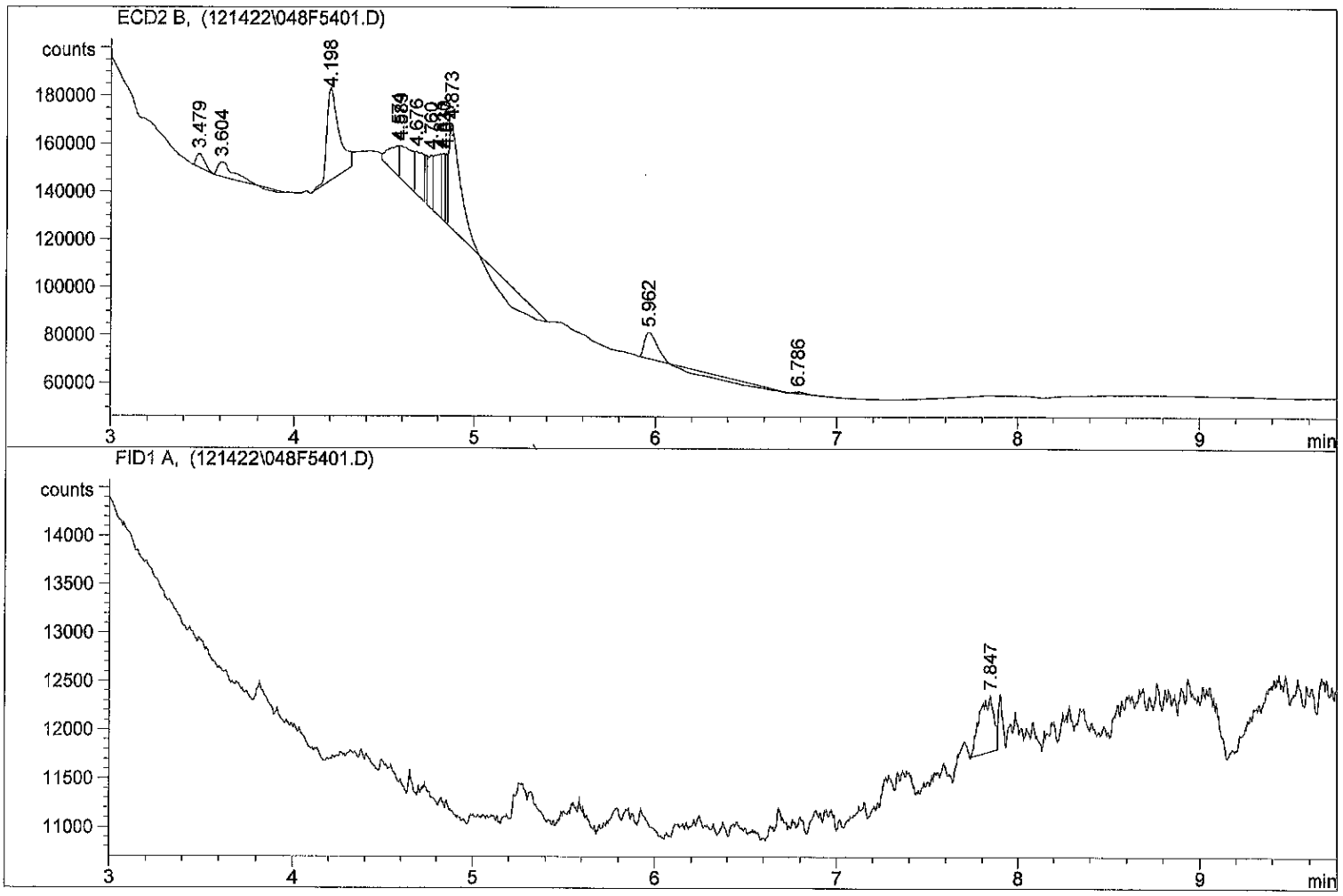


*** End of Report ***

Injection Date : 12/15/2022 5:26:31 AM Seq. Line : 54
Sample Name : 22L0199 45 Location : Vial 48
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

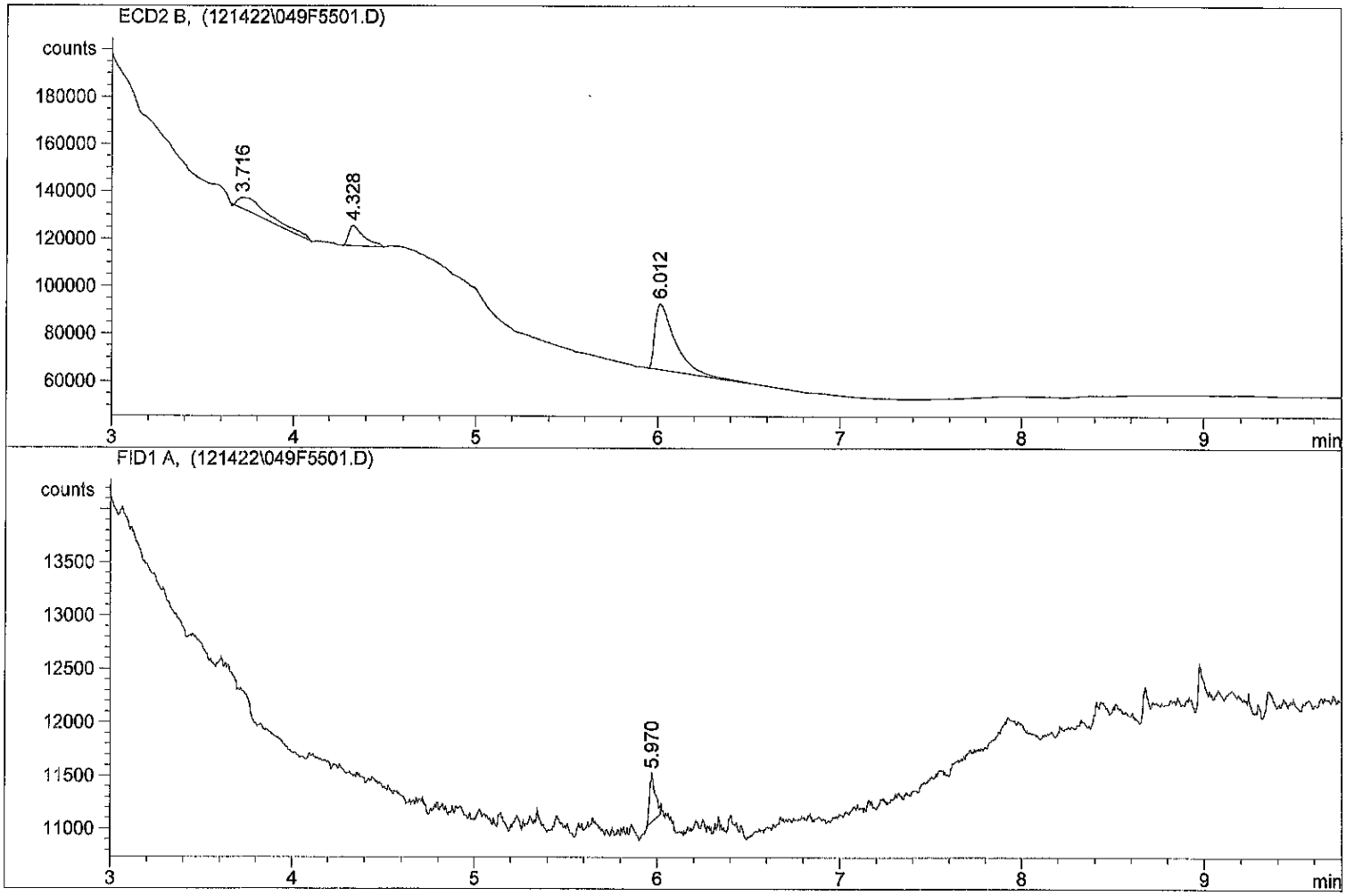
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date : 12/15/2022 5:40:56 AM Seq. Line : 55
Sample Name : 22L0199 46 Location : Vial 49
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

```
Injection Date   : 12/15/2022 5:55:31 AM          Seq. Line :  56
Sample Name      : 22L0199 47                    Location : Vial 50
Acq. Operator    : CR                                Inj :  1
                                                 Inj Volume : 1 µl
Sequence File    : C:\HPCHEM\1\SEQUENCE\121422.S
Method           : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed     : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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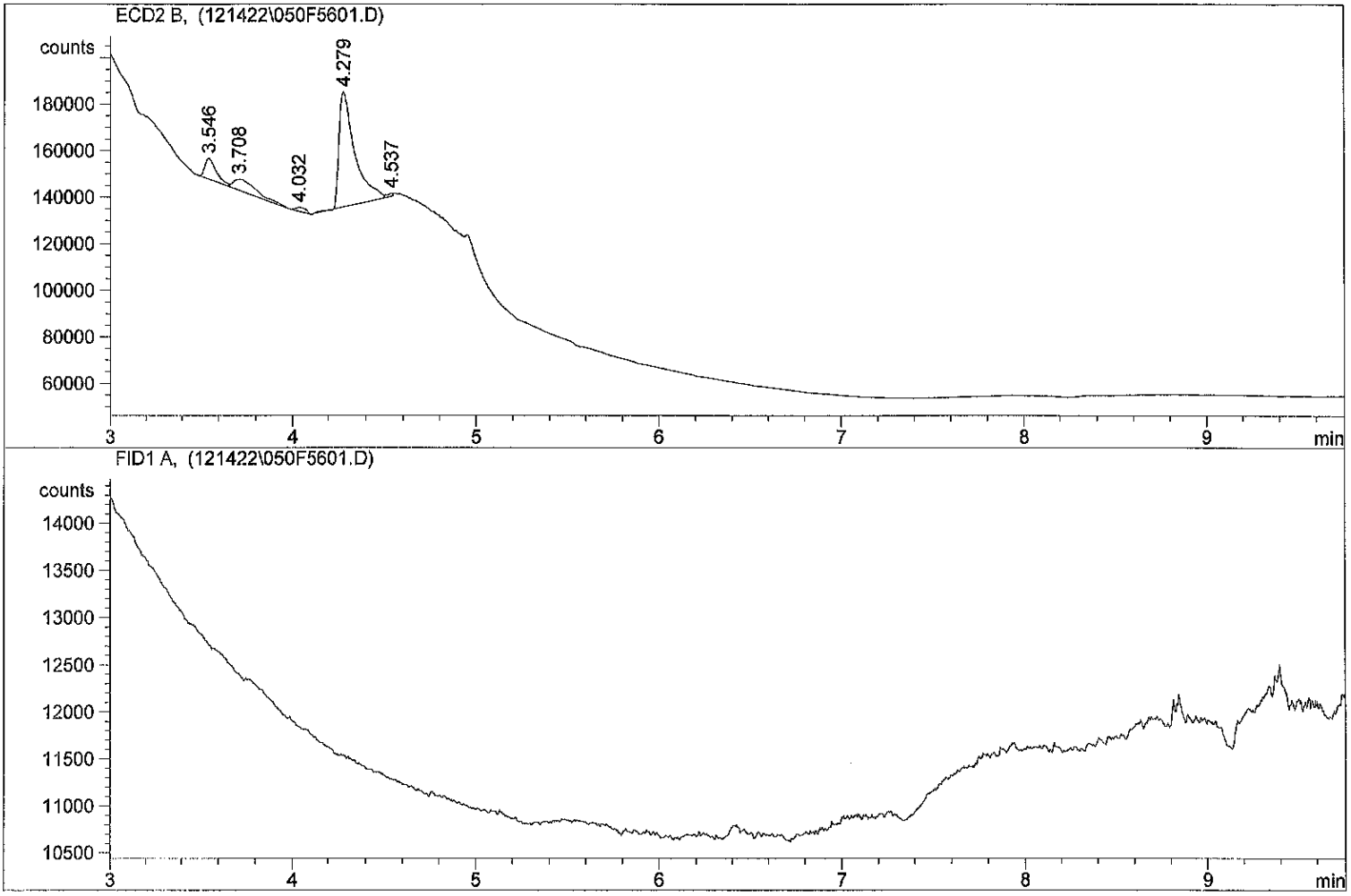
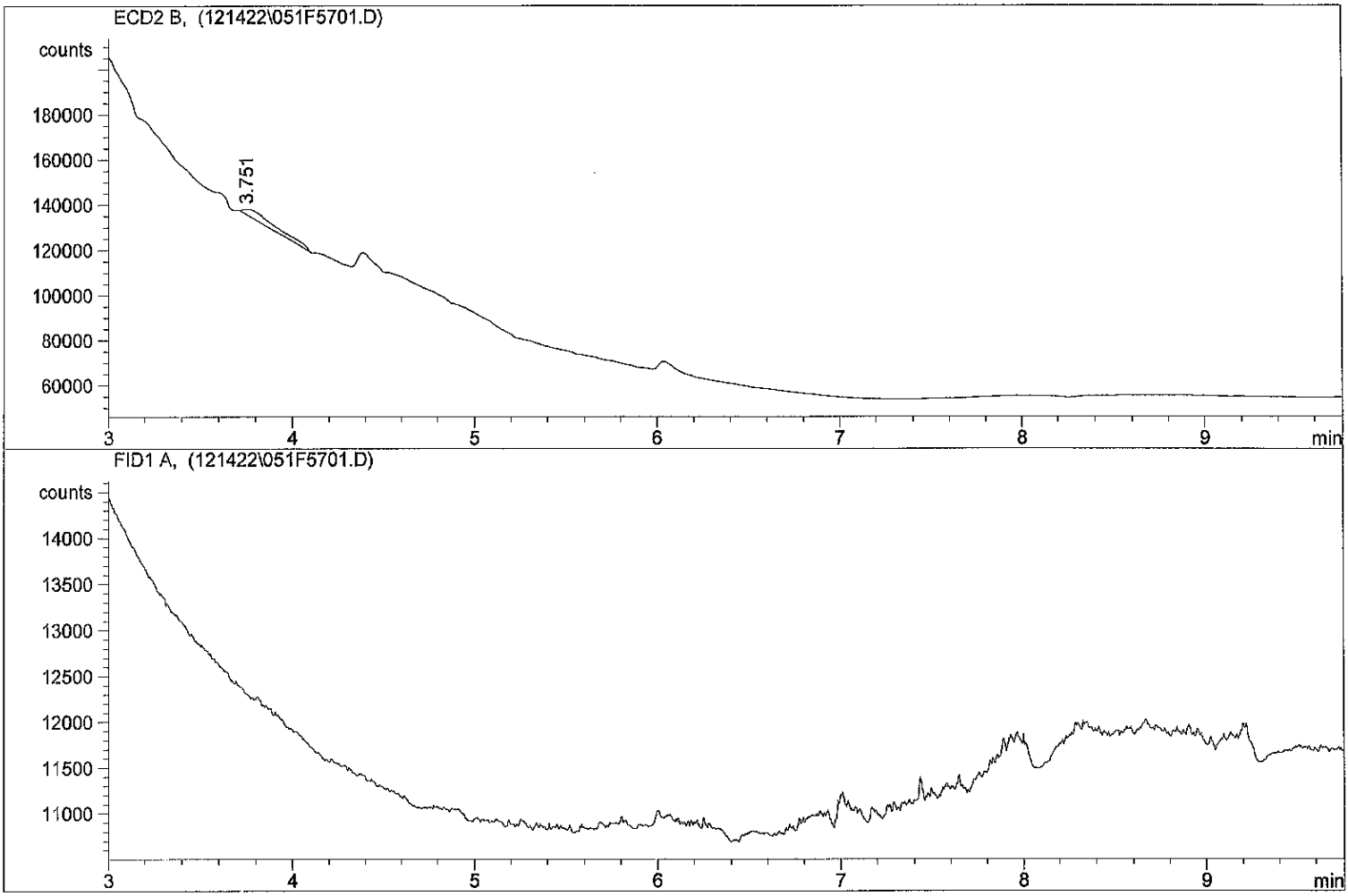


*** End of Report ***

Injection Date : 12/15/2022 6:07:22 AM Seq. Line : 57
Sample Name : 22L0199 48 Location : Vial 51
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

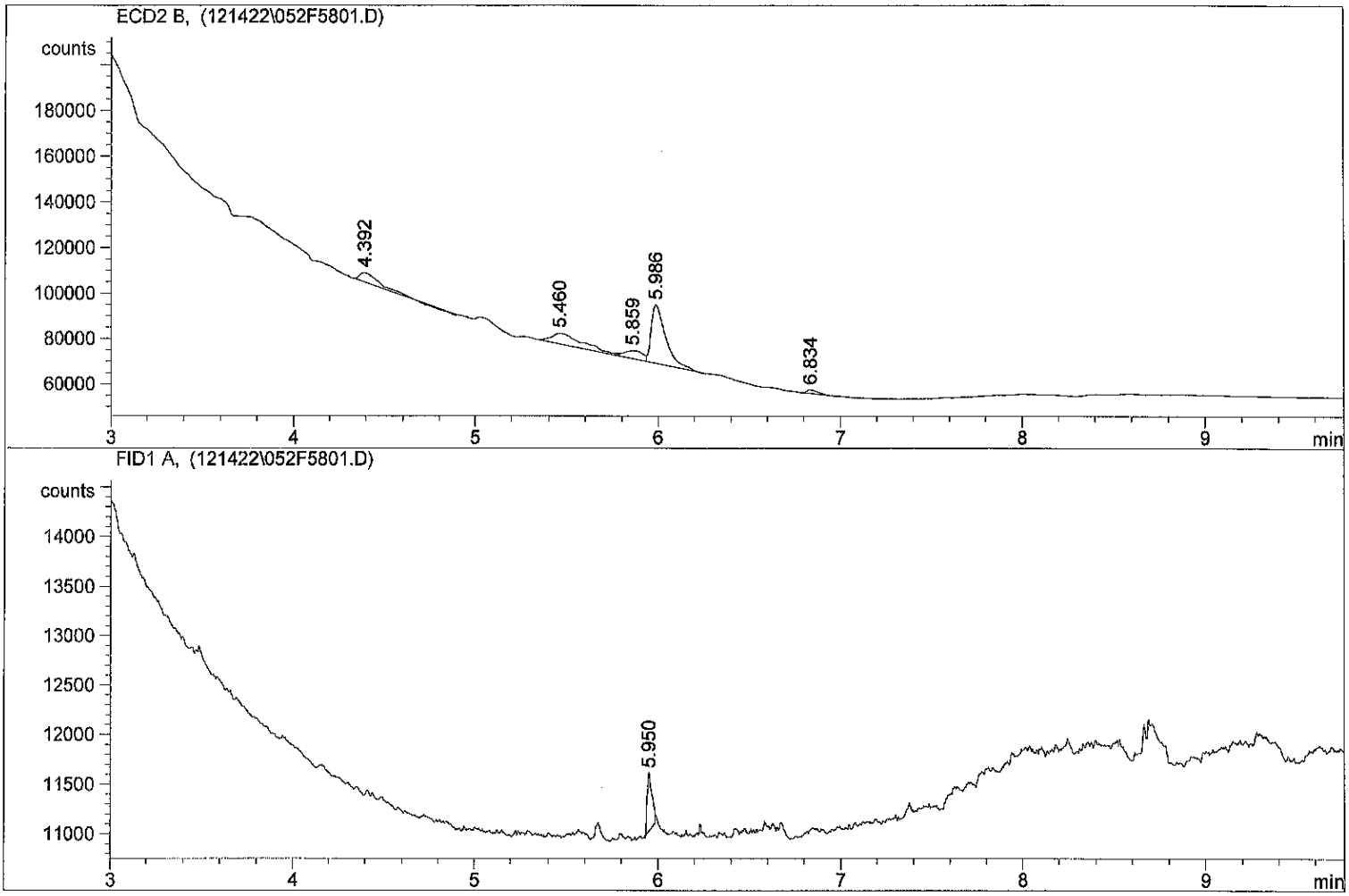
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date : 12/15/2022 6:24:32 AM Seq. Line : 58
Sample Name : 22L0199 49 Location : Vial 52
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

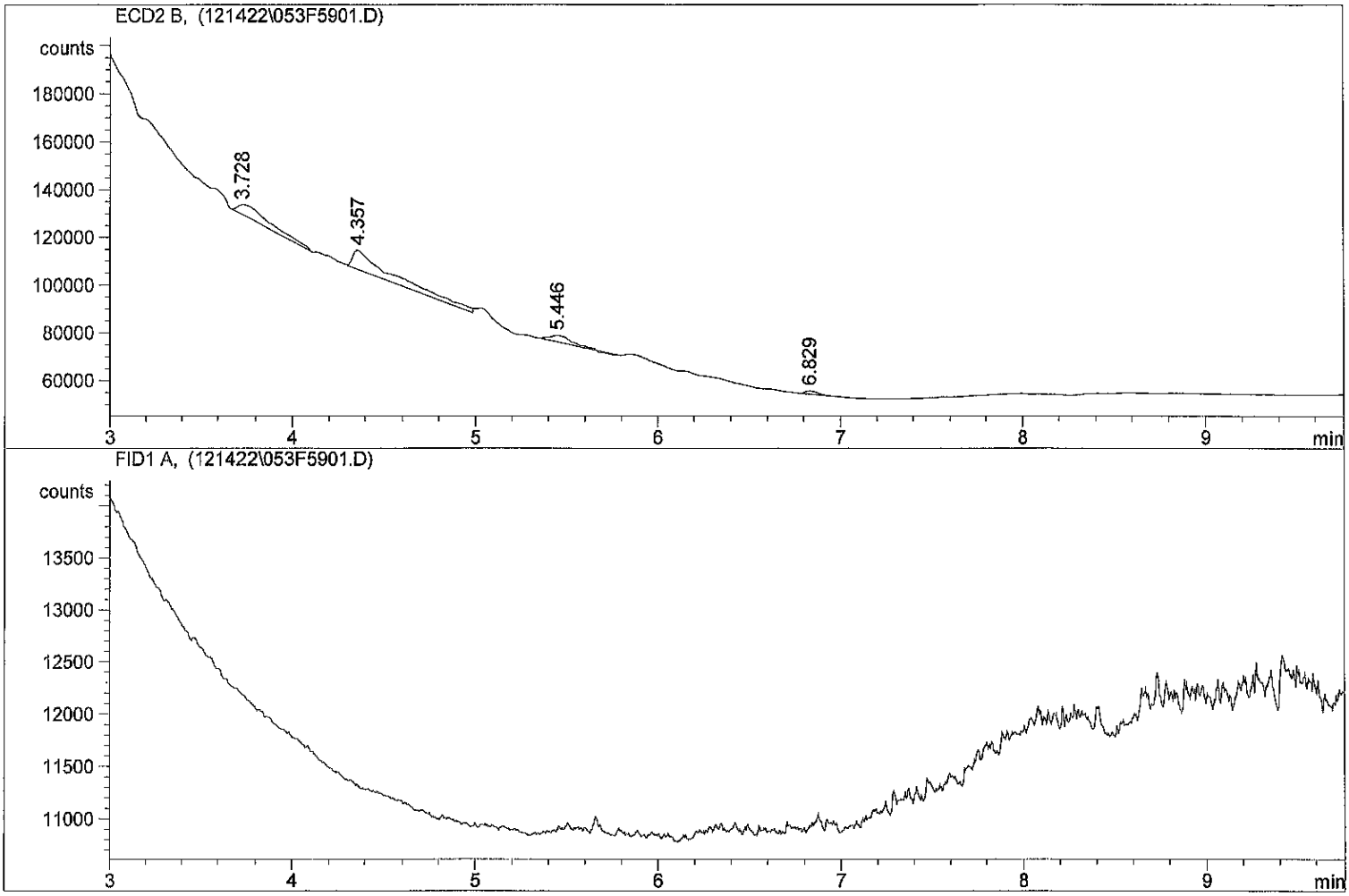
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date : 12/15/2022 6:39:04 AM Seq. Line : 59
Sample Name : 22L0199 50 Location : Vial 53
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\054F6001.D Sample Name: 22L0199 51

```
Injection Date  : 12/15/2022 6:53:32 AM        Seq. Line :  60
Sample Name     : 22L0199 51                   Location  : Vial 54
Acq. Operator   : CR                           Inj       : 1
                                               Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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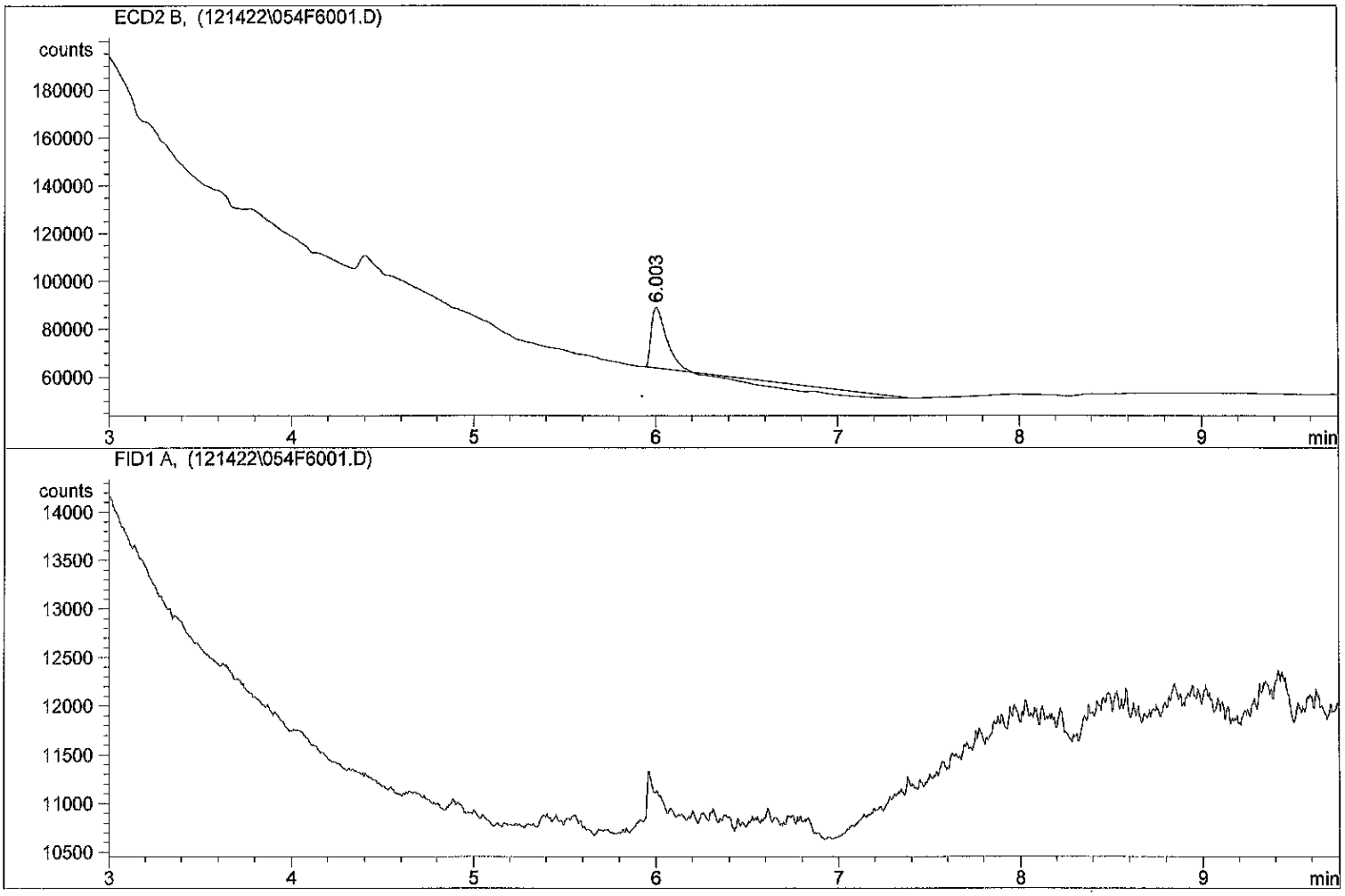
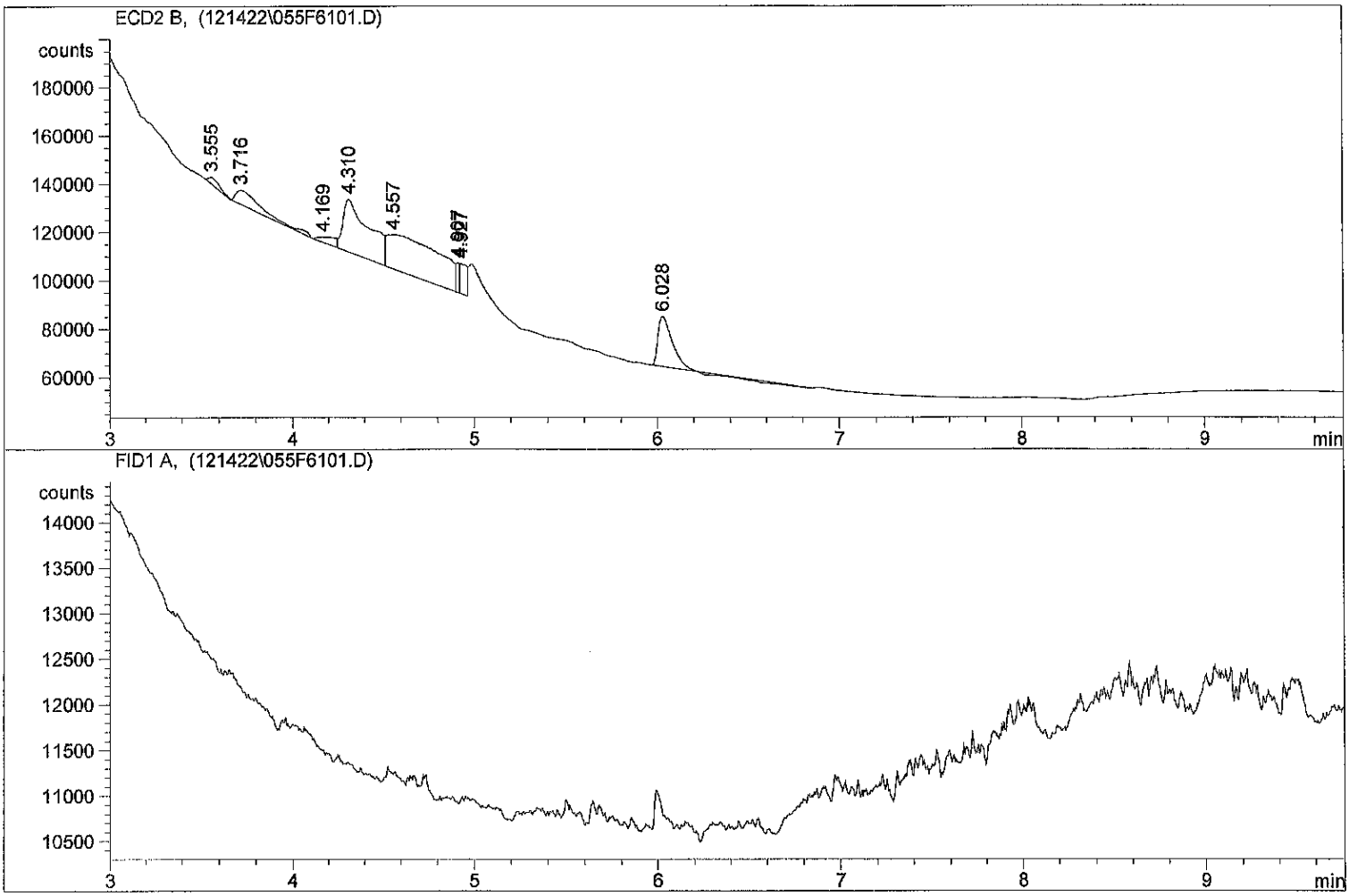


*** End of Report ***

Injection Date : 12/15/2022 7:05:23 AM Seq. Line : 61
Sample Name : 22L0199 52 Location : Vial 55
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

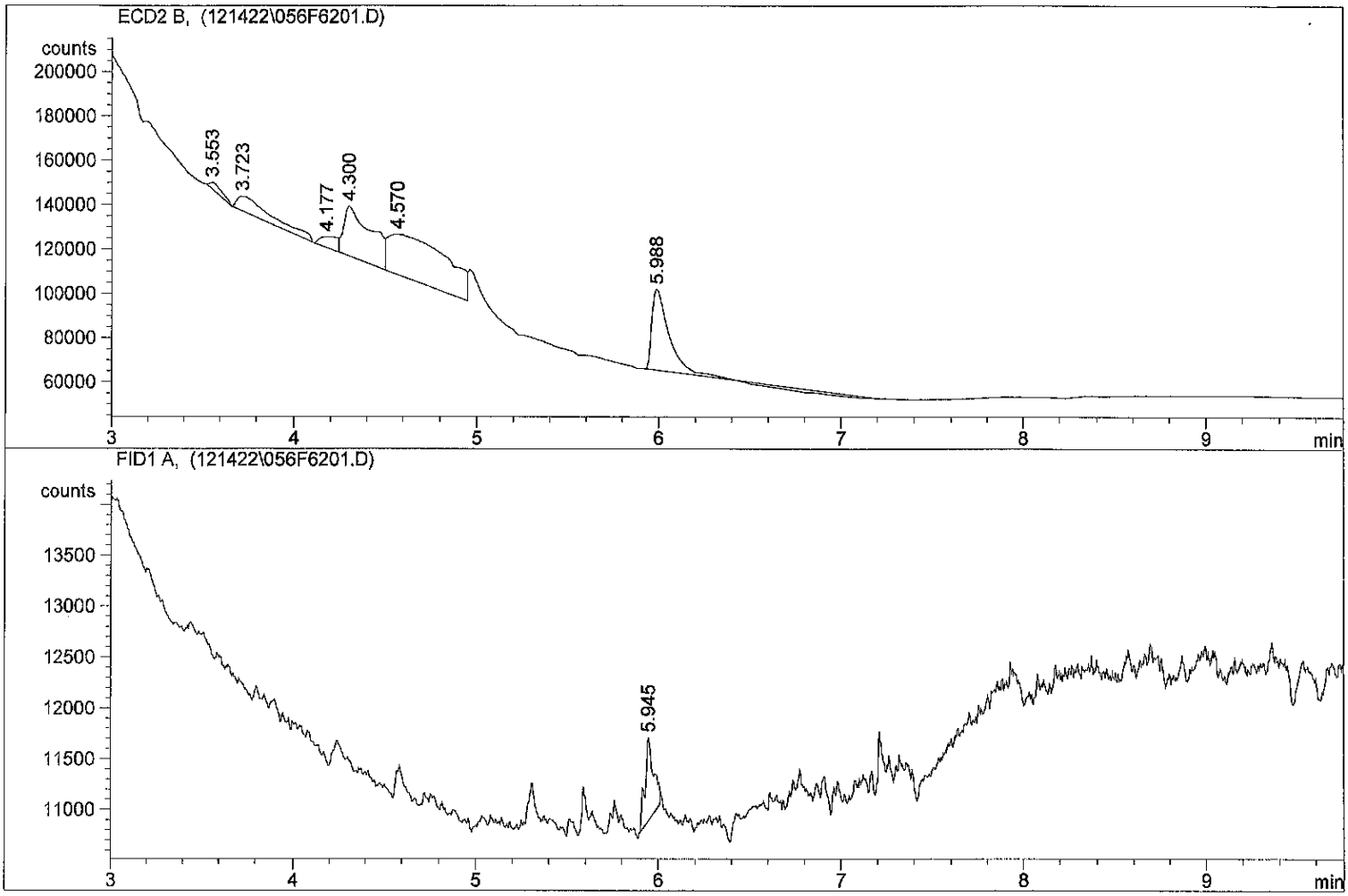
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

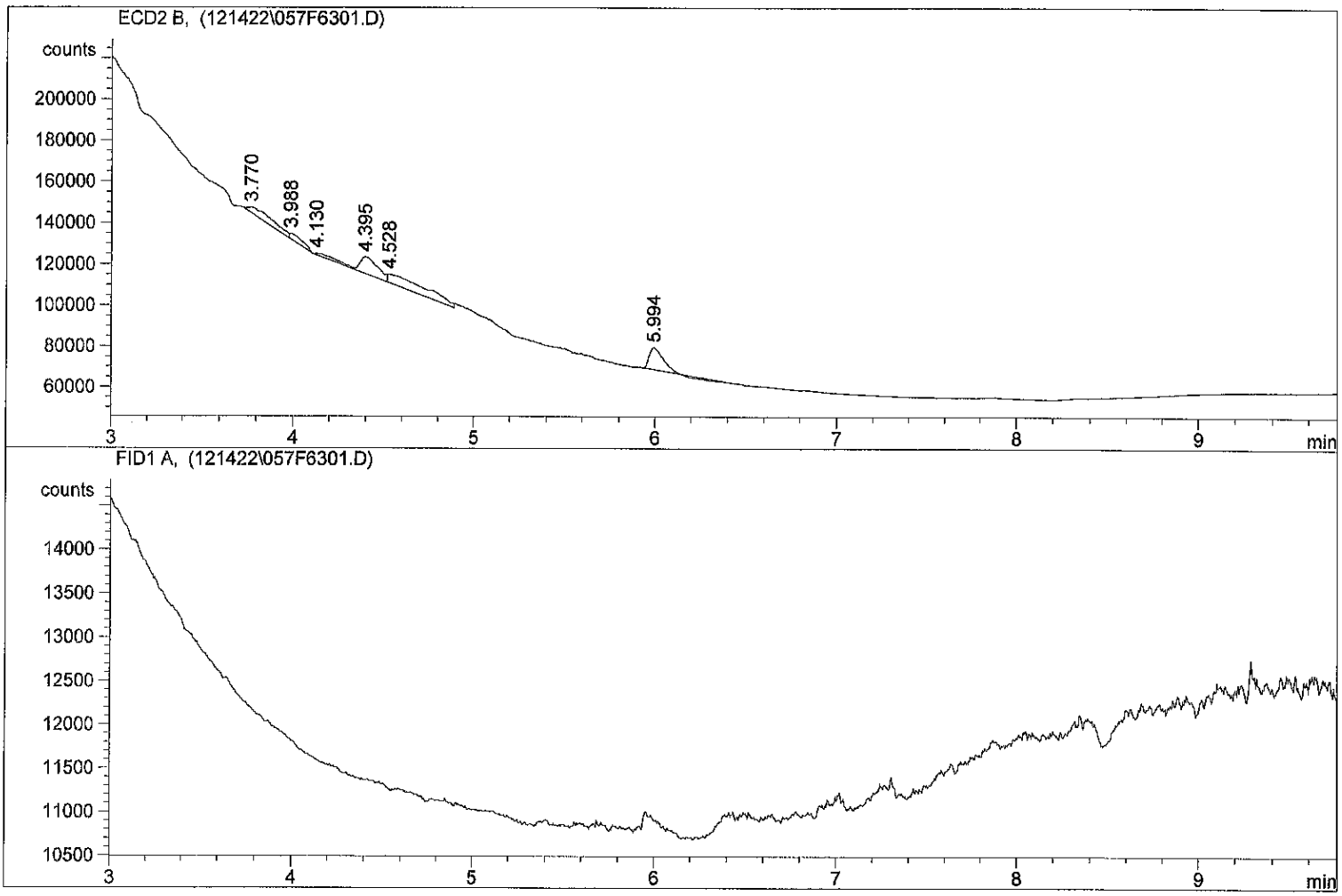
Injection Date : 12/15/2022 7:23:55 AM Seq. Line : 62
Sample Name : 22L0199 53 Location : Vial 56
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

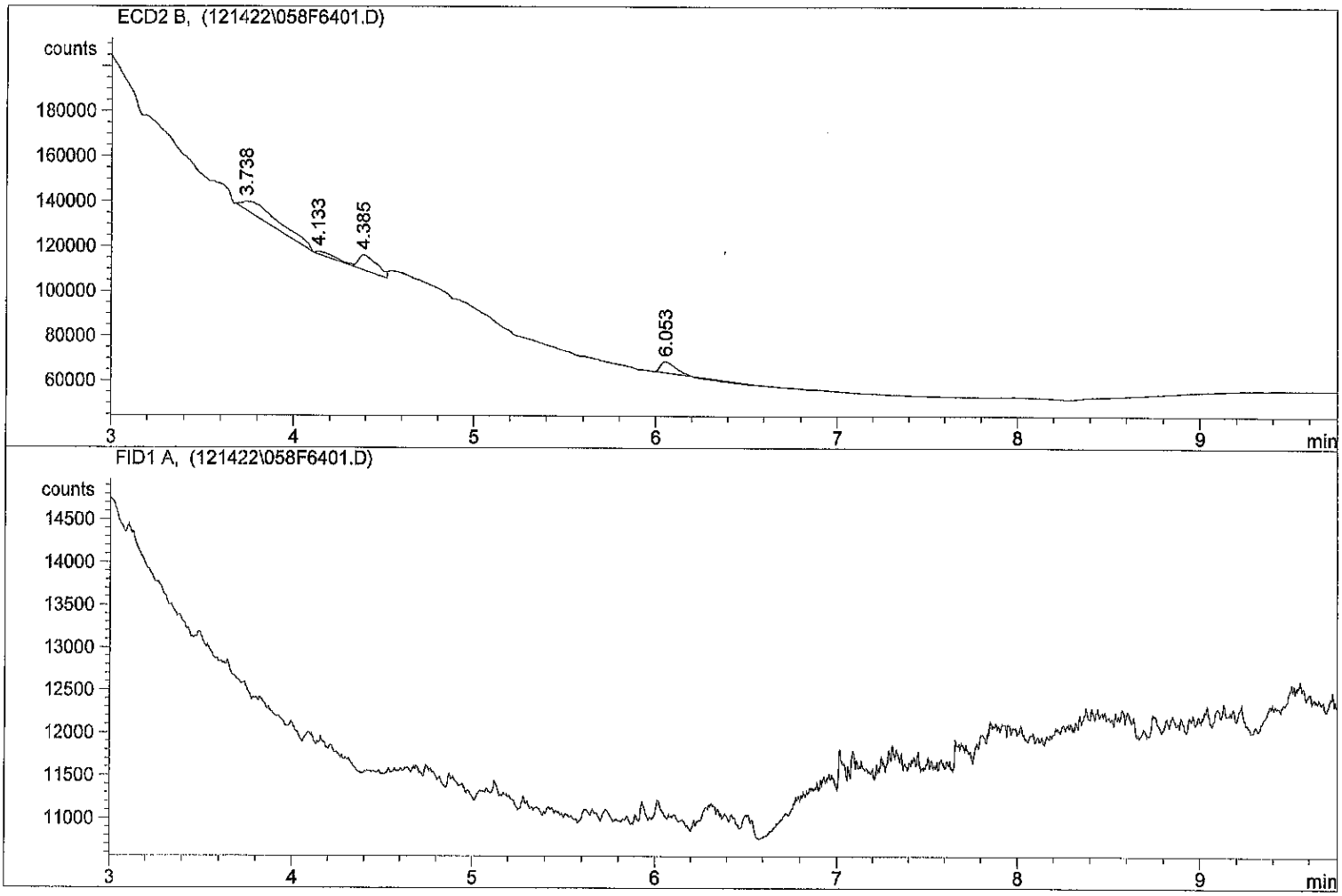
Injection Date	: 12/15/2022 7:37:31 AM	Seq. Line	: 63
Sample Name	: 22L0199 54	Location	: Vial 57
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\058F6401.D Sample Name: 22L0199 53

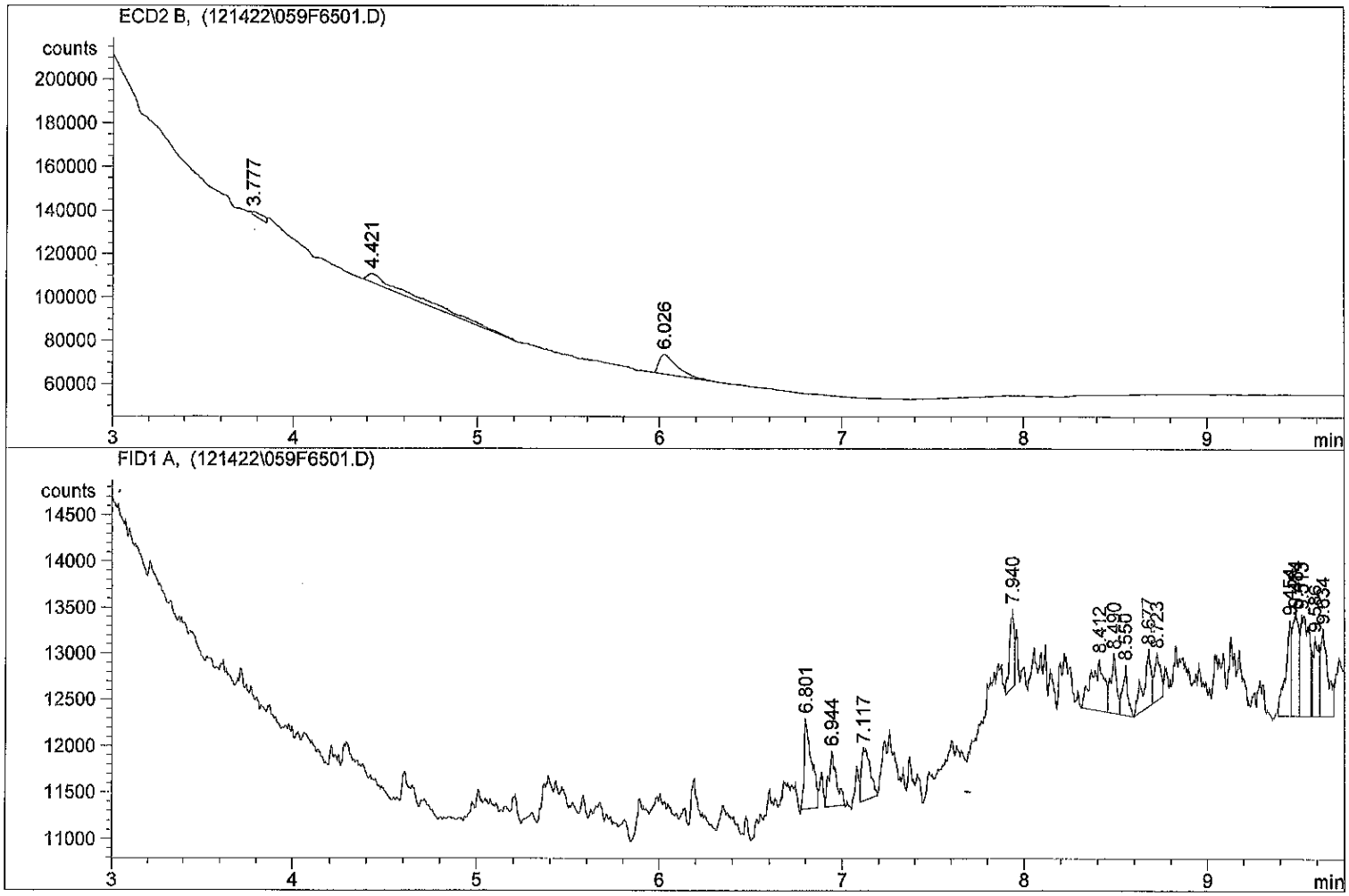
Injection Date	: 12/15/2022 7:51:52 AM	Seq. Line :	64
Sample Name	: 22L0199 53	Location :	Vial 58
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 12/15/2022 8:05:29 AM Seq. Line : 65
Sample Name : 22L0199 54 Location : Vial 59
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

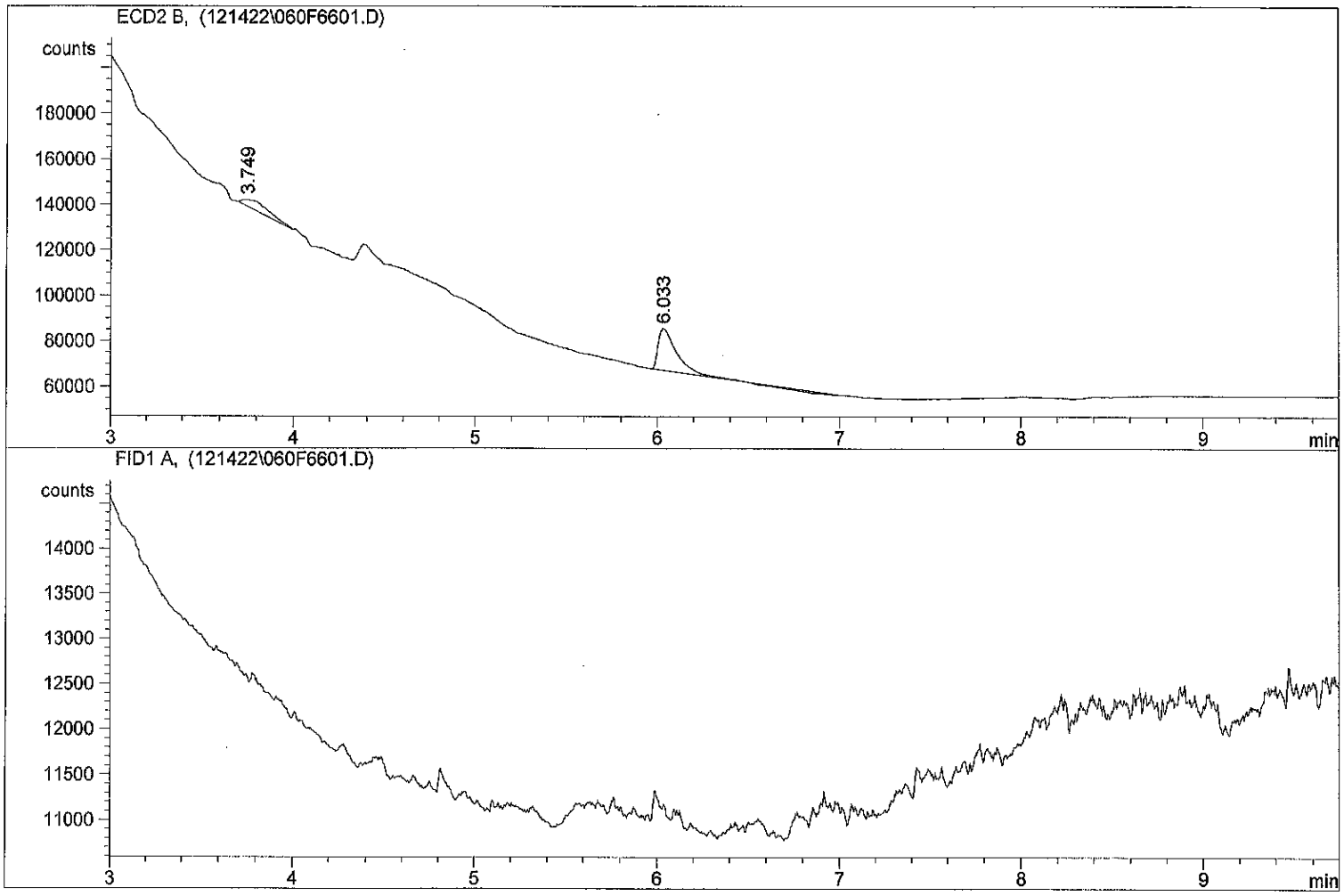
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date : 12/15/2022 8:20:04 AM Seq. Line : 66
Sample Name : 22L0199 55 Location : Vial 60
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

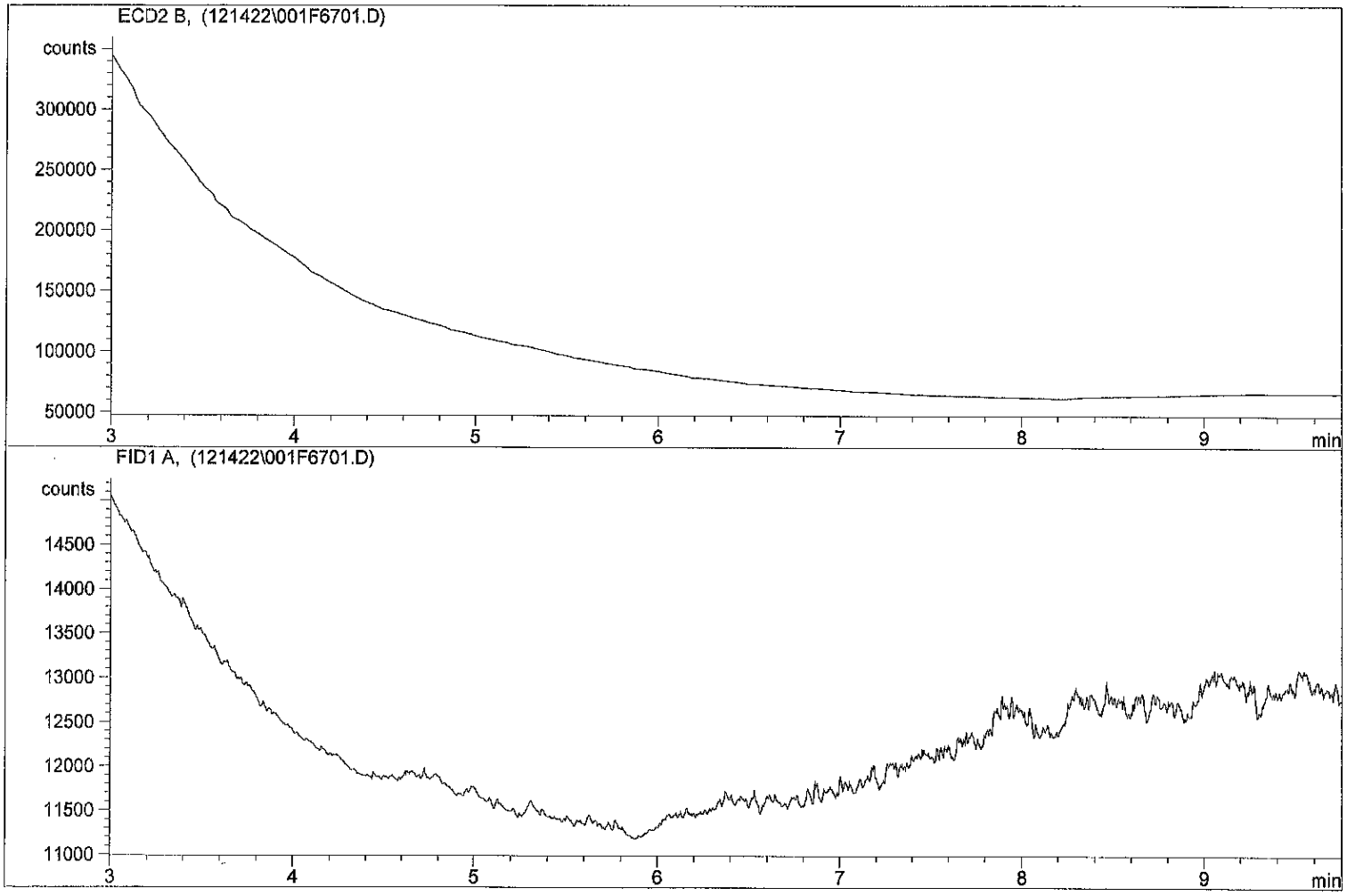
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\001F6701.D Sample Name: DCM RINSE

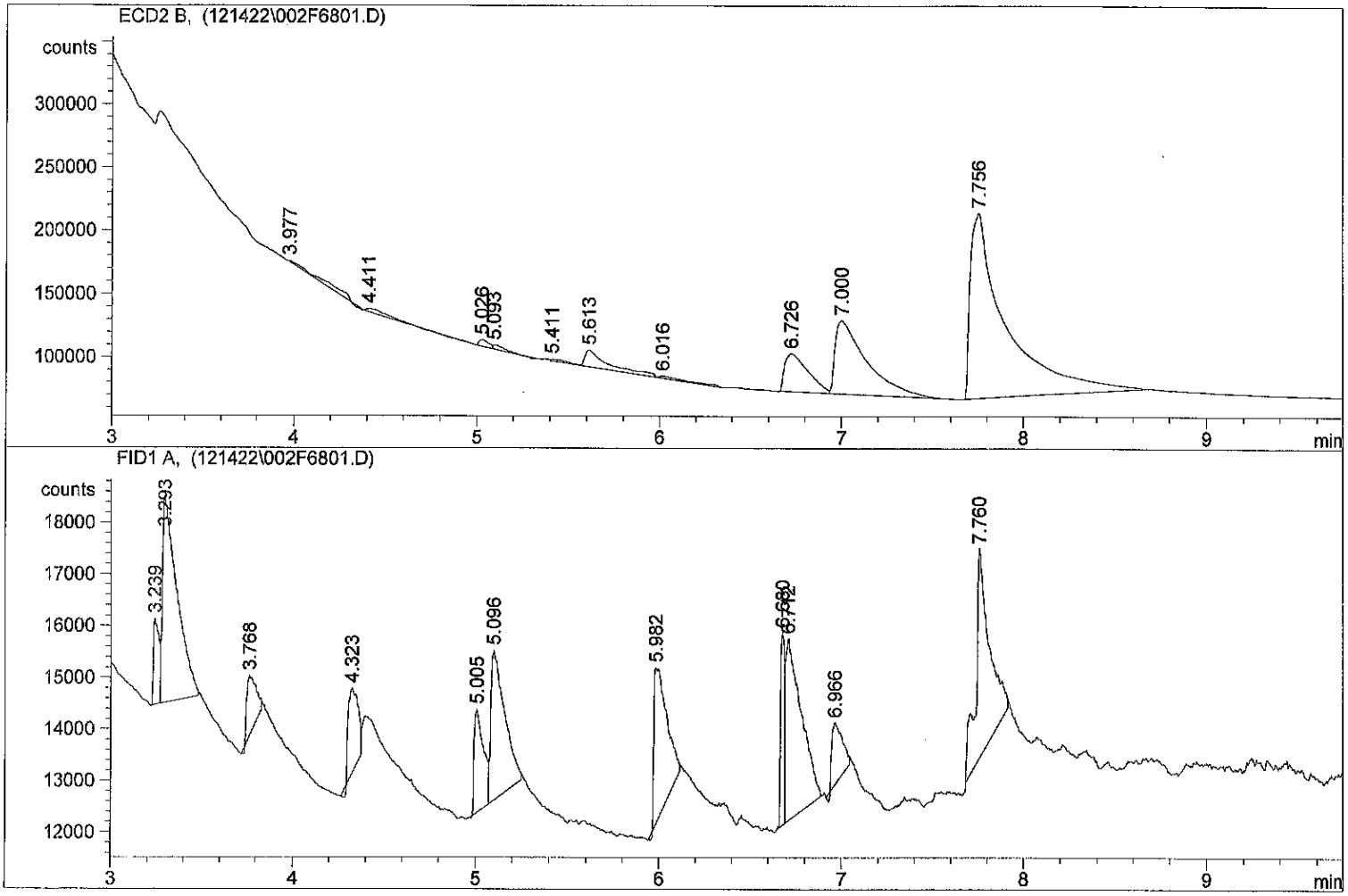
Injection Date	: 12/15/2022 8:33:28 AM	Seq. Line	: 67
Sample Name	: DCM RINSE	Location	: Vial 1
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 12/15/2022 8:47:16 AM Seq. Line : 68
Sample Name : PNA STD 10PPM Location : Vial 2
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

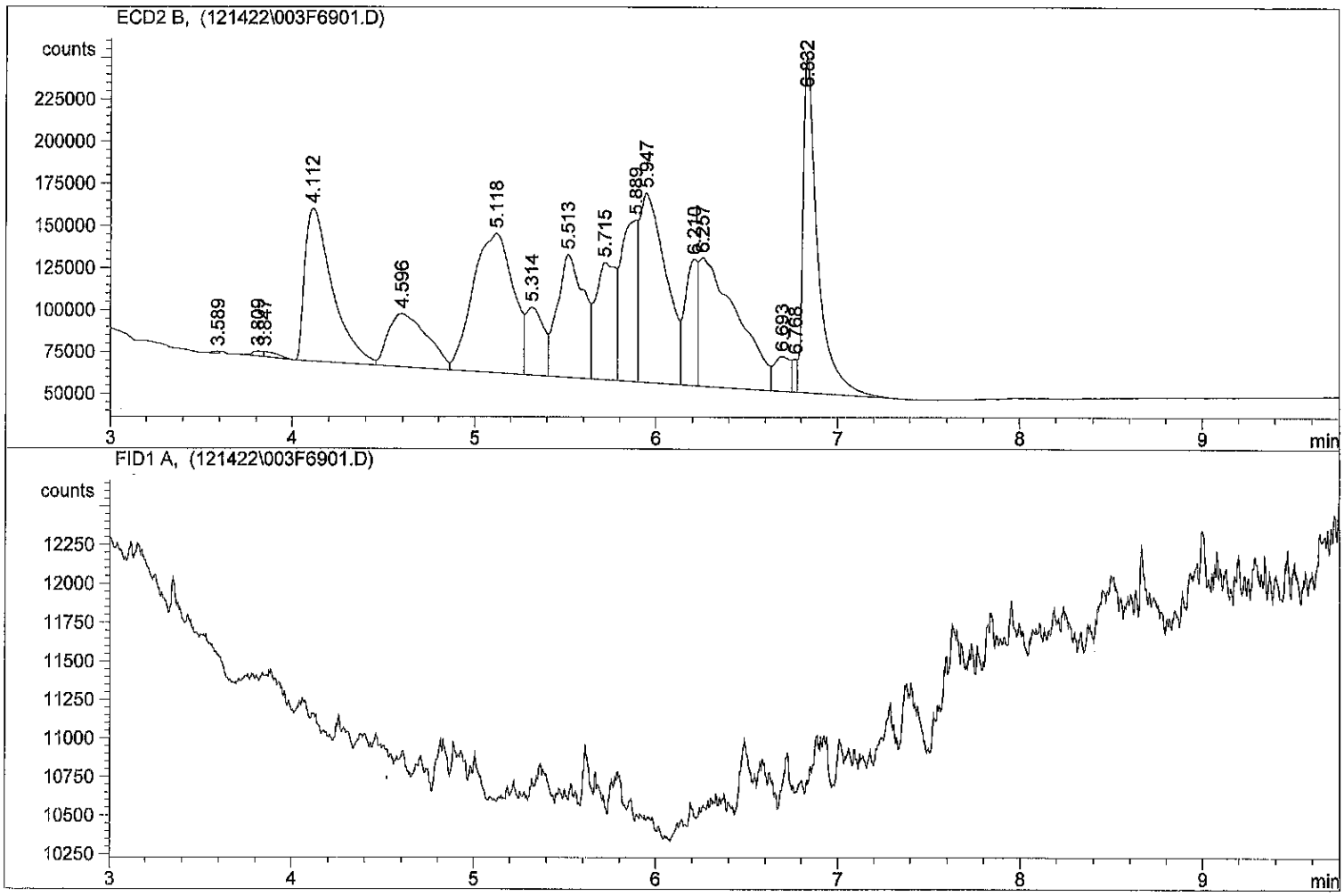
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\003F6901.D Sample Name: AR1660 1PPM

Injection Date	: 12/15/2022 9:01:53 AM	Seq. Line	: 69
Sample Name	: AR1660 1PPM	Location	: Vial 3
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/15/2022 9:15:17 AM        Seq. Line :  70
Sample Name     : 22L0199 56                   Location : Vial 61
Acq. Operator   : CR                              Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121422.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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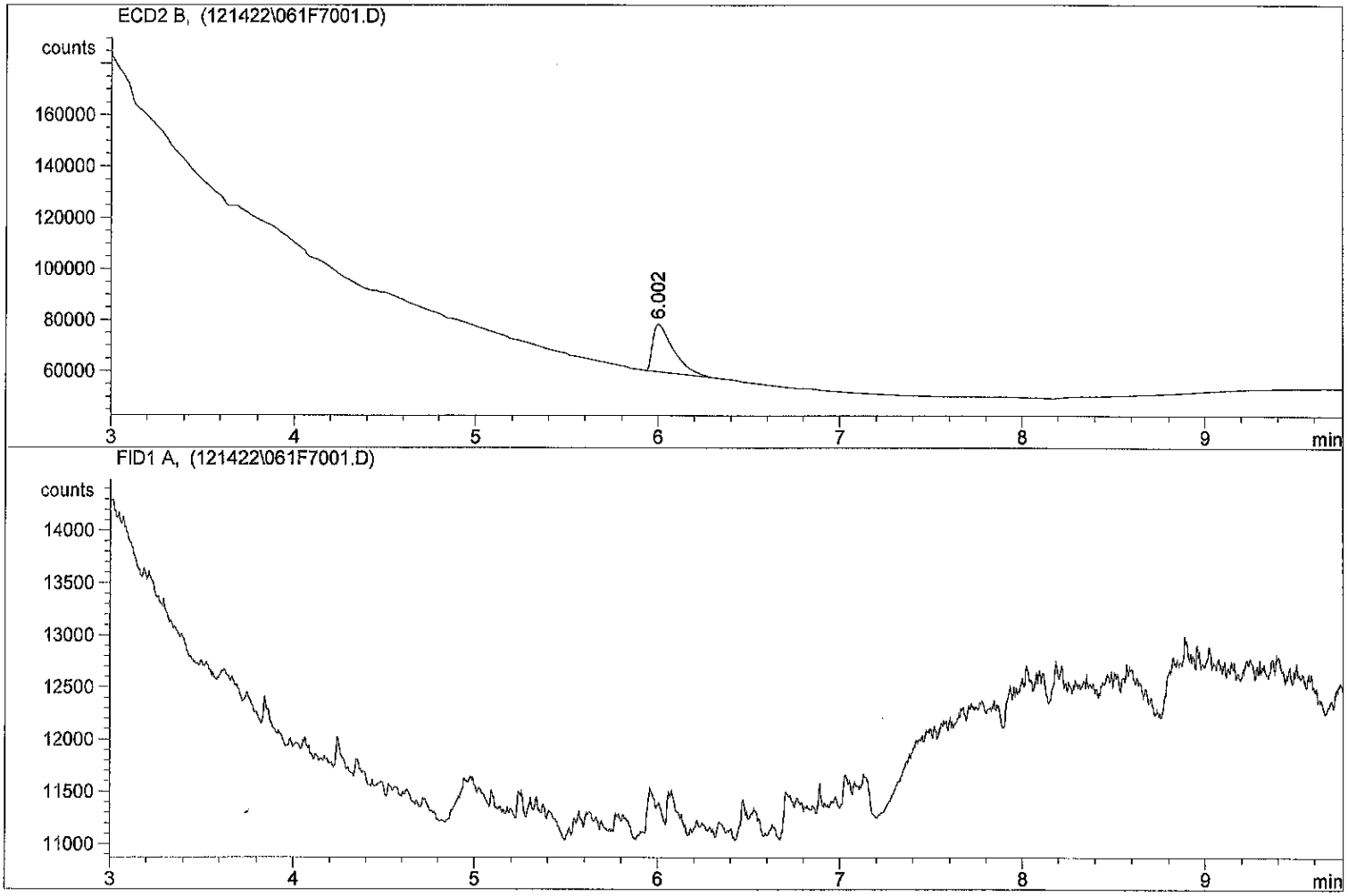
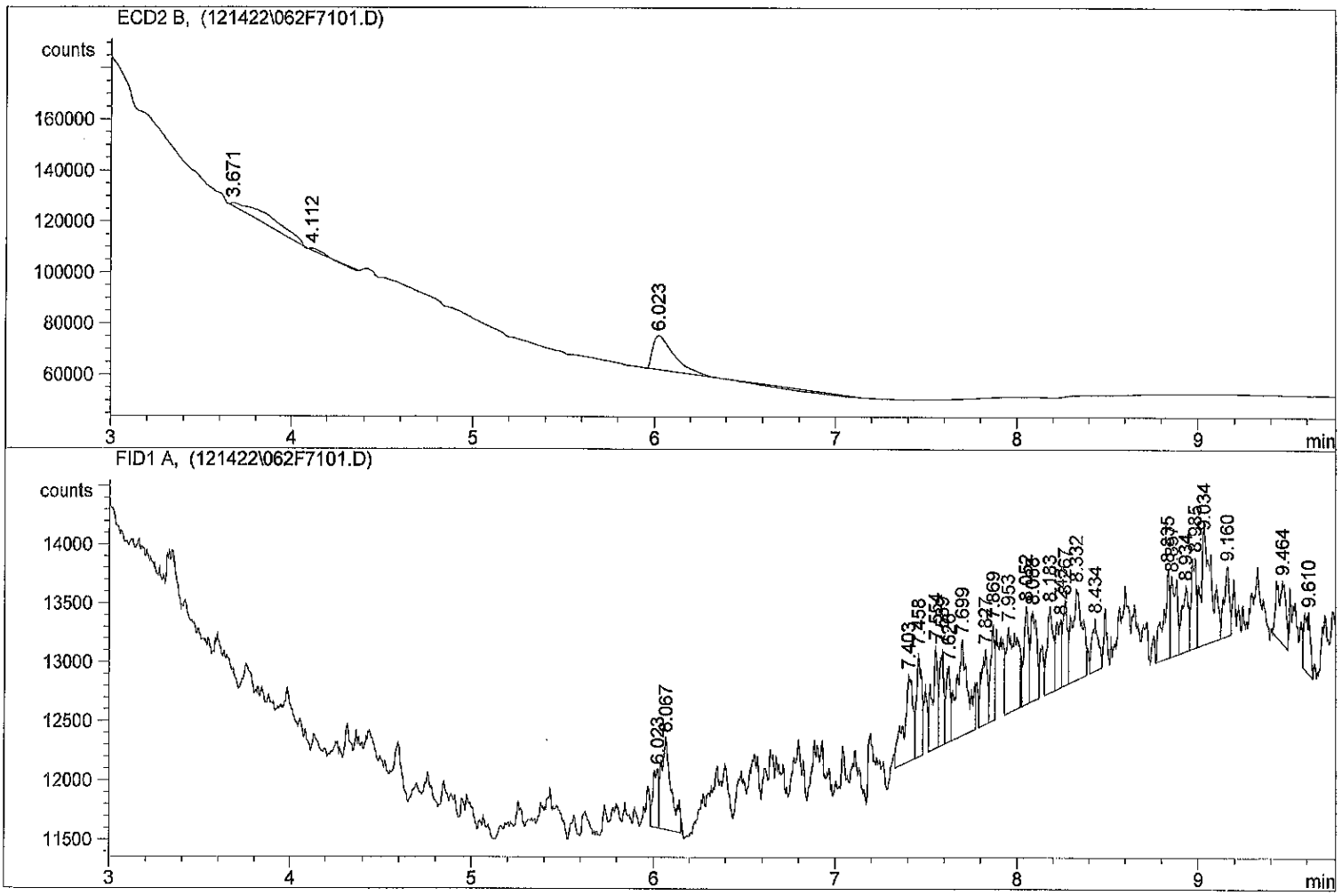


*** End of Report ***

Injection Date : 12/15/2022 9:29:02 AM Seq. Line : 71
Sample Name : 22L0199 57 Location : Vial 62
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

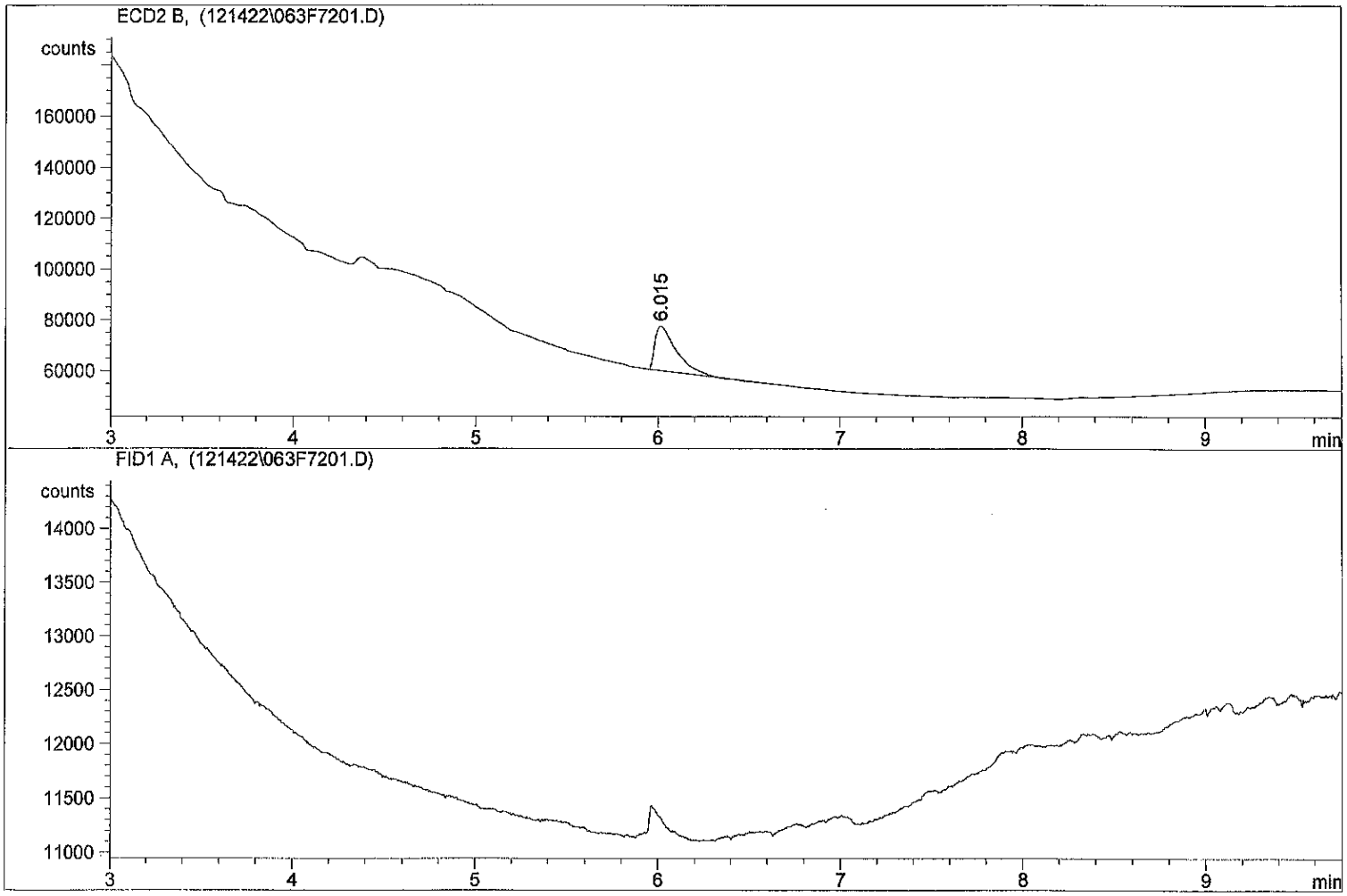
Sequence File : C:\HPCHEM\1\SEQUENCE\121422.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121422\063F7201.D Sample Name: 22L0199 58

Injection Date	: 12/15/2022 9:42:43 AM	Seq. Line	: 72
Sample Name	: 22L0199 58	Location	: Vial 63
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121422.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0488 Batch Matrix: Solid
Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC758B	22L0199-61	01032304ECD7.D	12/20/22 10:55	
LDW22-SC758C	22L0199-62	01032305ECD7.D	12/20/22 10:55	
LDW22-SC758D	22L0199-63	12312212ECD7.D	12/20/22 10:55	
LDW22-SC758E	22L0199-64	12312213ECD7.D	12/20/22 10:55	
LDW22-SC758F	22L0199-65	12312214ECD7.D	12/20/22 10:55	
LDW22-SC758G	22L0199-66	12312215ECD7.D	12/20/22 10:55	
LDW22-SC758H	22L0199-67	12312216ECD7.D	12/20/22 10:55	
LDW22-SC758I	22L0199-68	12312217ECD7.D	12/20/22 10:55	
LDW22-SC758J	22L0199-69	12312218ECD7.D	12/20/22 10:55	
LDW22-SC758K	22L0199-70	12312219ECD7.D	12/20/22 10:55	
Blank	BKL0488-BLK1	12312204ECD7.D	12/20/22 10:55	
LCS	BKL0488-BS1	12312205ECD7.D	12/20/22 10:55	
LCS Dup	BKL0488-BSD1	12312206ECD7.D	12/20/22 10:55	
LDW22-SC758K	BKL0488-MS1	12312208ECD7.D	12/20/22 10:55	
LDW22-SC758K	BKL0488-MSD1	12312209ECD7.D	12/20/22 10:55	
Reference	BKL0488-SRM1	12312207ECD7.D	12/20/22 10:55	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0488

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 12/20/22 **Balance ID:** B146462614 **Set Up By:** CD 12/19/22

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0199-61 B	56.7	(22.04)	22.05	5mL	5mL	2mL	2.5	1.0	
22L0199-62 B	57.3	(21.83)	21.86	5mL	5mL	2mL	2.5	1.0	
22L0199-63 B	58.8	(21.25)	21.27	5mL	5mL	2mL	2.5	1.0	
22L0199-64 B	63.7	(19.63)	19.68	5mL	5mL	2mL	2.5	1.0	
22L0199-65 B	57.1	(21.90)	21.95	5mL	5mL	2mL	2.5	1.0	
22L0199-66 B	62.2	(20.10)	20.11	5mL	5mL	2mL	2.5	1.0	
22L0199-67 B	63.3	(19.74)	19.76	5mL	5mL	2mL	2.5	1.0	
22L0199-68 B	62.8	(19.90)	19.90	5mL	5mL	2mL	2.5	1.0	
22L0199-69 B	63.6	(19.65)	19.72	5mL	5mL	2mL	2.5	1.0	
22L0199-70 B	67.2	(18.60)	18.64	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0488-BLK1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0488-BS1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0488-BSD1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0488-MS1	67.2	(18.60)	18.60	5mL	5mL	2mL	2.5	1.0	Use 22L0199-70
BKL0488-MSD1	67.2	(18.60)	18.60	5mL	5mL	2mL	2.5	1.0	Use 22L0199-70
BKL0488-SRM1	100.0	~~(12.50)~~ (2.50) +1g DI WATER	2.50	5mL	5mL	2mL	2.5	1.0	Use K010815

CD 12/20/22 — Client ID Verified By — Date

ZH 12/30/22 — Preparation Reviewed By — Date

12/20/22 10:55 — Extraction Date and Time

Printed: 12/19/2022 2:49:26PM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0488

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0199: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 (2) 3
12/6/22
CT
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 (5) 6
LJ 12/21/22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
AA 12-28-22
Analyst/Date

TurboVap
Post Cleanups
1 2 (3) 4 5
ZH 12/30/22
Analyst/Date

Vialing
ZH 12/30/22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: 12/6/22	
Neutral Glass Wool	KØ14266
1:1 Hexane/Acetone	KØ11642
Hexane	KØ11373
Anhydrous Sodium Sulfate	KØ11562
KD Analyst: LJ Date: 12/21/22	
Anhydrous Sodium Sulfate	N/A
Hexane	KØ11373
Vialing Analyst: ZH Date: 12/30/22	
Hexane	KØ11373
Concentrated Sulfuric Acid	KØ10364
Silica Gel (SPE) Darts	KØ11573
Sodium Sulfite	KØ03744
Tetrabutylammonium hydrogensulfate (TBAS)	KØ11530

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K010600 (V) Exp Date: 1/23/2023	50µL	CT	N
Spike 20µg/mL	1 K008150 (V) Exp Date: 3/5/2023	63µL	CT	N

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

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<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

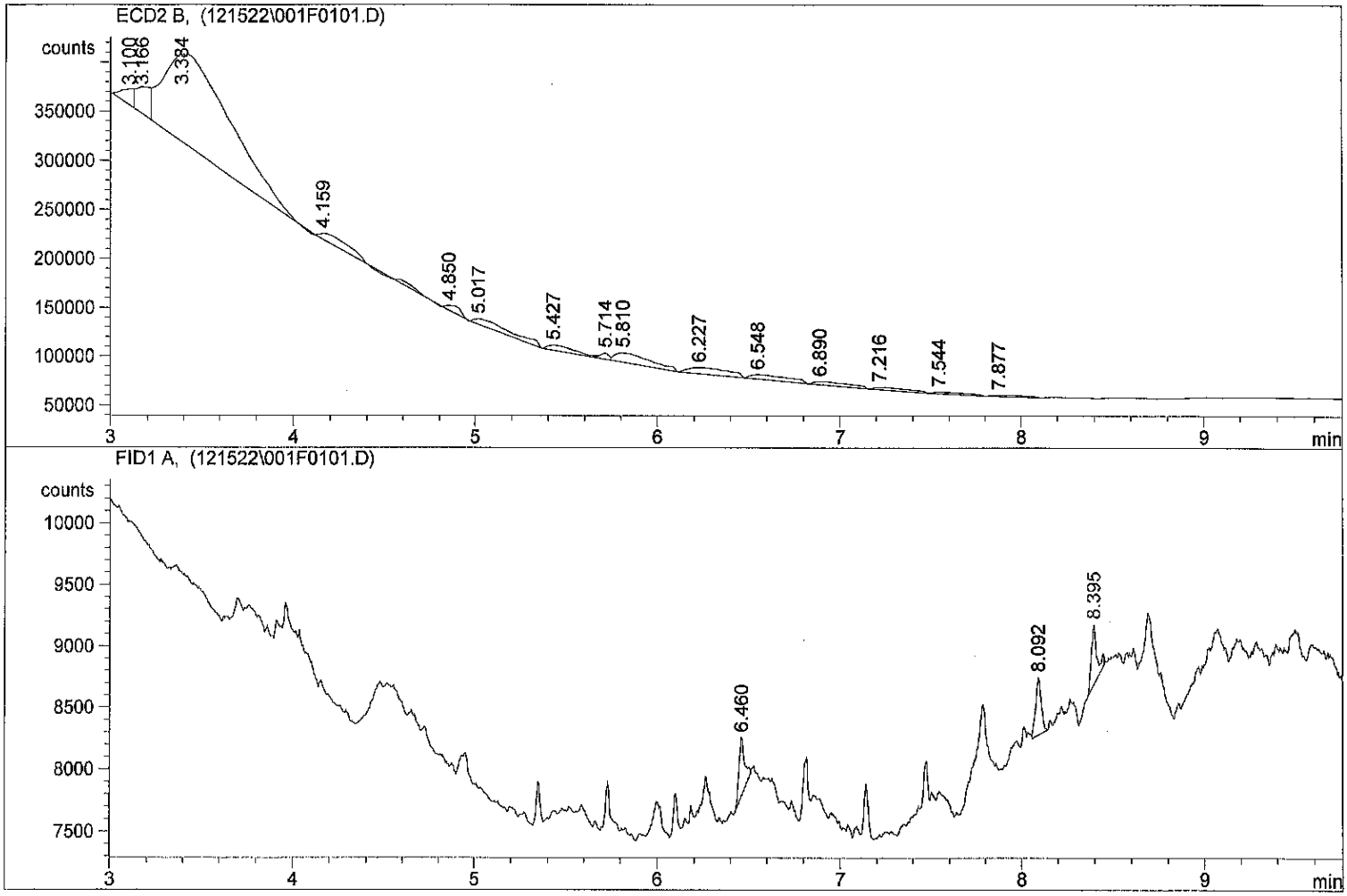
Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PCB Extraction Batch ~~BXL0488~~

Total Solids Batch: BXL0345 Work Order(s): 22L0199 61-70

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 64,65,66,69,70	SH 12/15/22
☒ Standing Water Decanted (Not shared)= 61,62,63	SH 12/15/22
~~☒ Standing Water Homogenized (Shared samples)= 61,62,63~~	~~SH 12/15/22~~ SH 12/15/22
☒ Clay/Clumps (Difficult to homogenize)= 67,68	SH 12/15/22
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☒ Oily, obvious fuel/sulfur odors= 61	SH 12/15/22
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / N	SH 12/15/22
☒ Multiple Jars Y / N	SH 12/15/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

```
Injection Date  : 12/15/2022 5:10:04 PM        Seq. Line :   1
Sample Name     : DCM RINSE                    Location : Vial 1
Acq. Operator   : SH                              Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121522.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
```



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121522\002F0201.D Sample Name: PNA STD 10PPM

Injection Date	: 12/15/2022 5:24:43 PM	Seq. Line	: 2
Sample Name	: PNA STD 10PPM	Location	: Vial 2
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121522.S		
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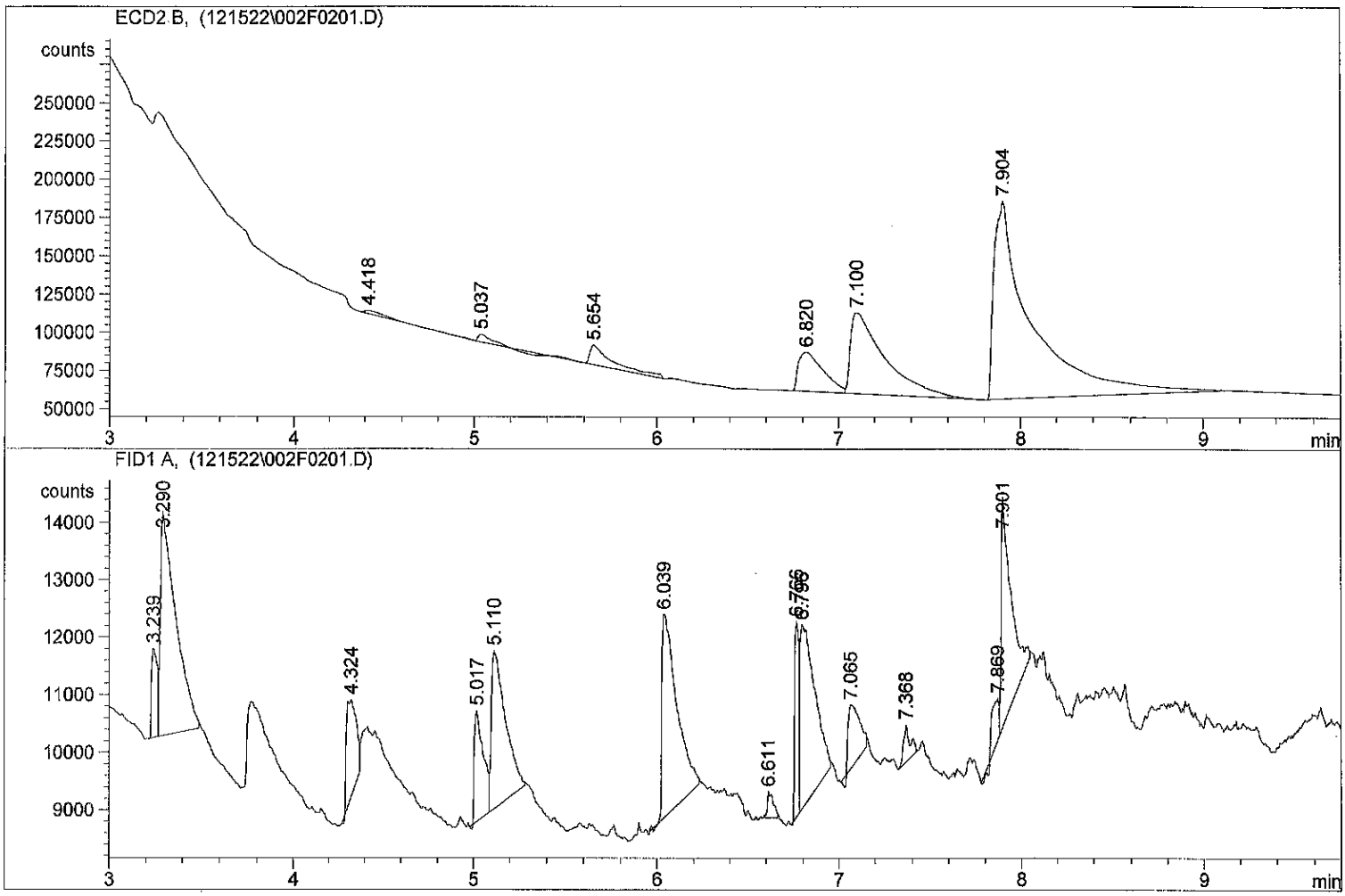
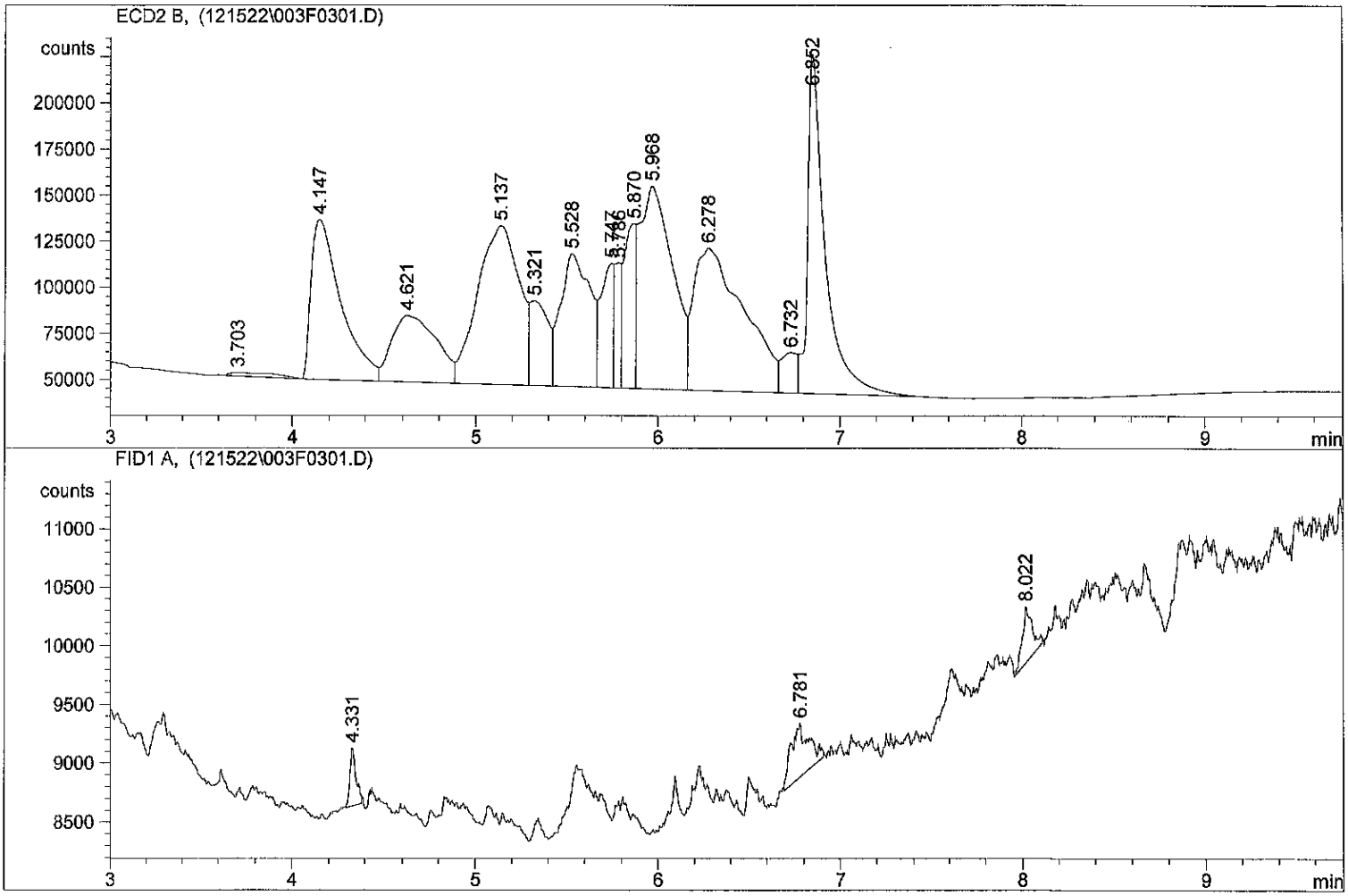
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121522\003F0301.D Sample Name: AR1660 1PPM

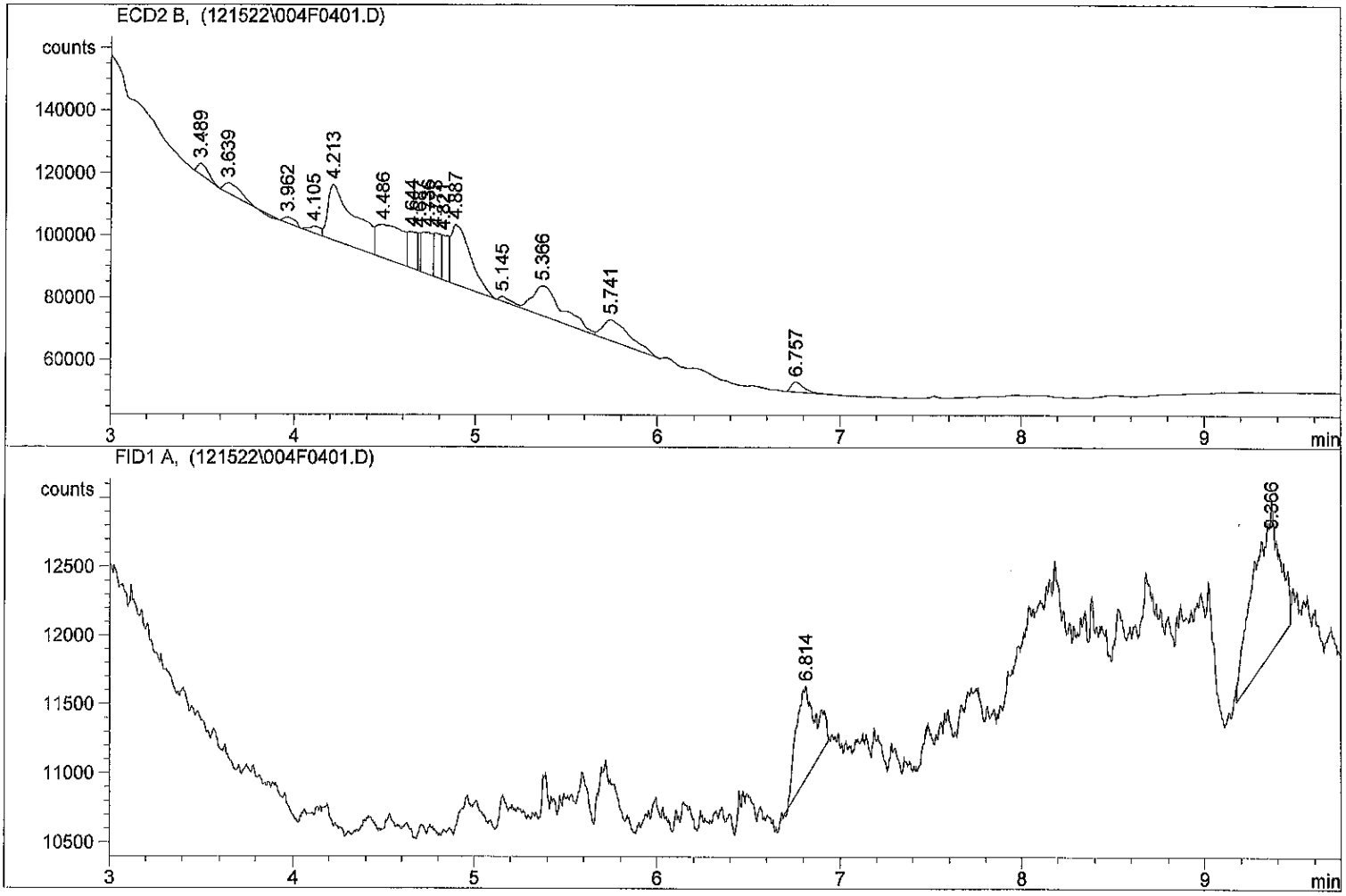
Injection Date	: 12/15/2022 5:39:04 PM	Seq. Line	: 3
Sample Name	: AR1660 1PPM	Location	: Vial 3
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121522.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121522\004F0401.D Sample Name: 22L0199 61

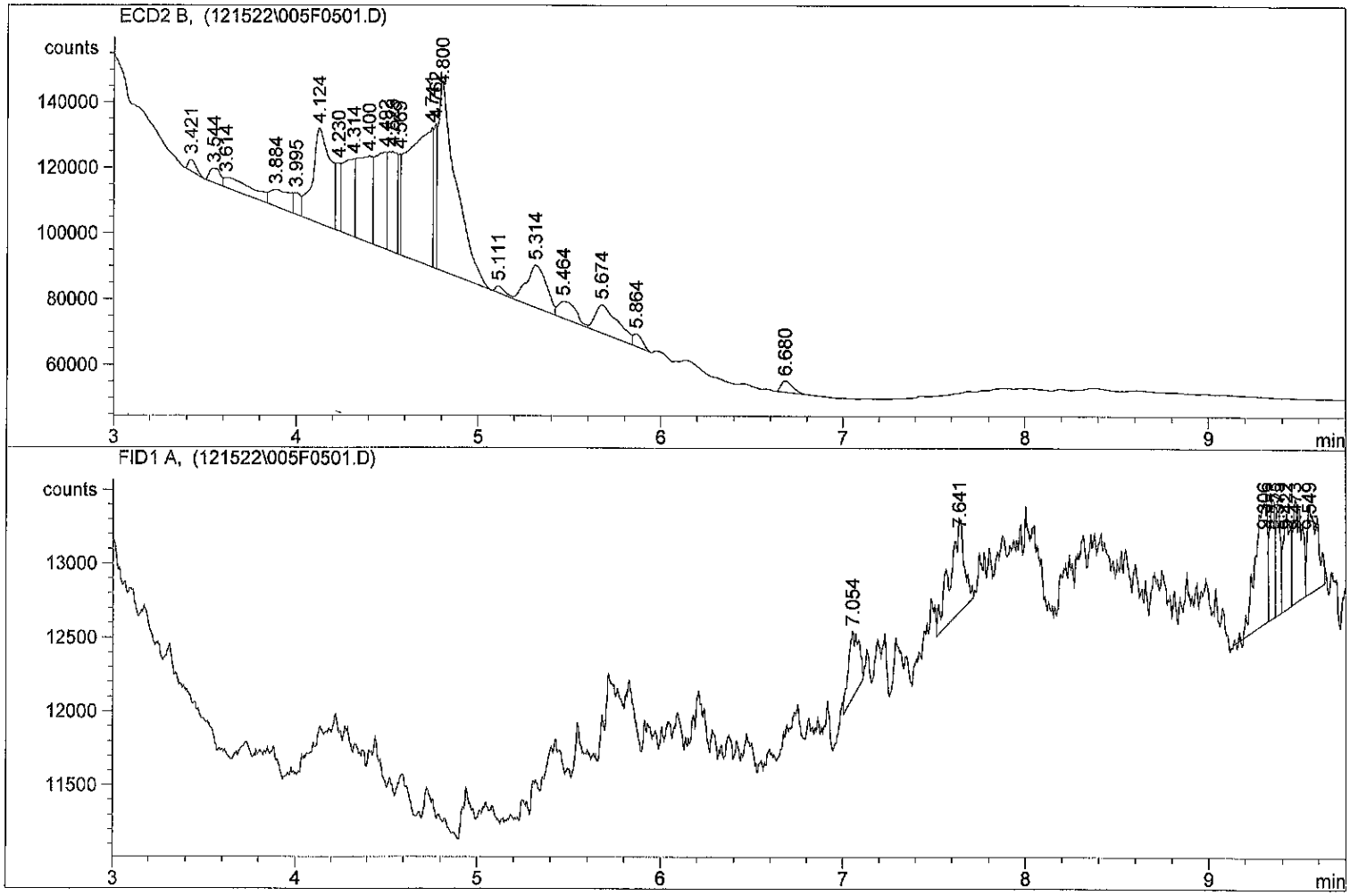
Injection Date	: 12/15/2022 5:53:25 PM	Seq. Line	: 4
Sample Name	: 22L0199 61	Location	: Vial 4
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121522.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 12/15/2022 6:07:11 PM Seq. Line : 5
Sample Name : 22L0199 62 Location : Vial 5
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

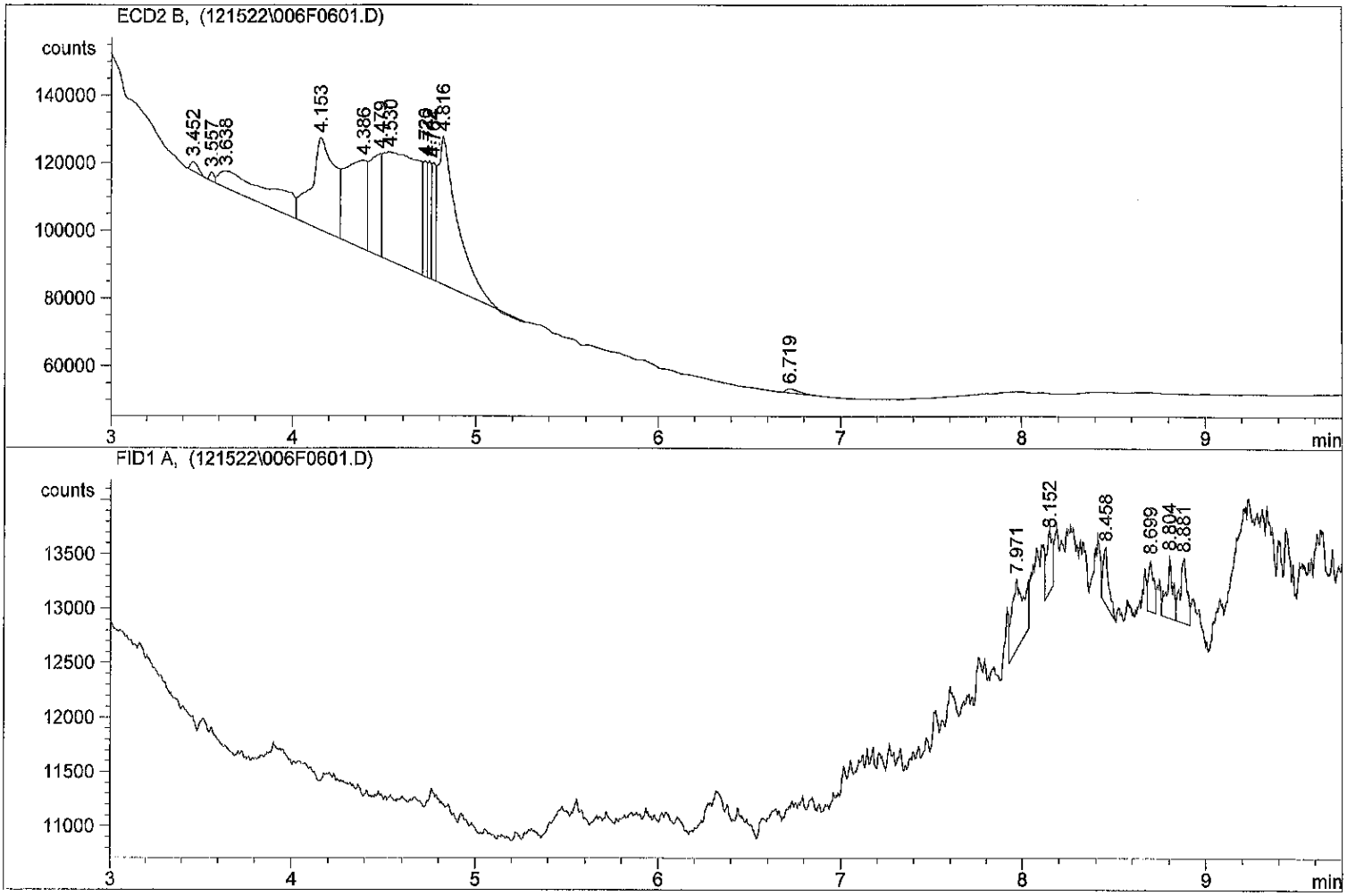
Sequence File : C:\HPCHEM\1\SEQUENCE\121522.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

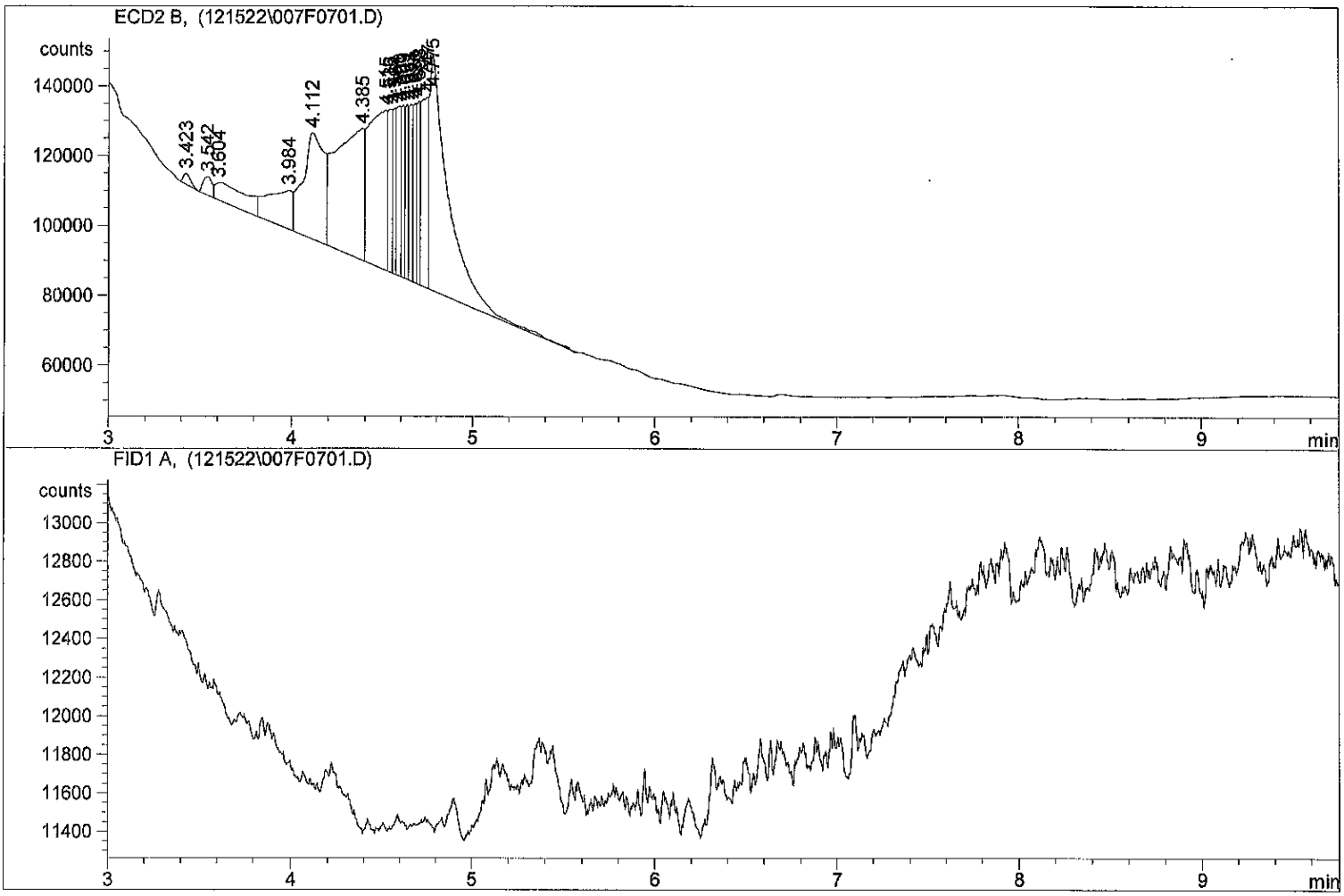
Injection Date : 12/15/2022 6:21:44 PM Seq. Line : 6
Sample Name : 22L0199 63 Location : Vial 6
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121522.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

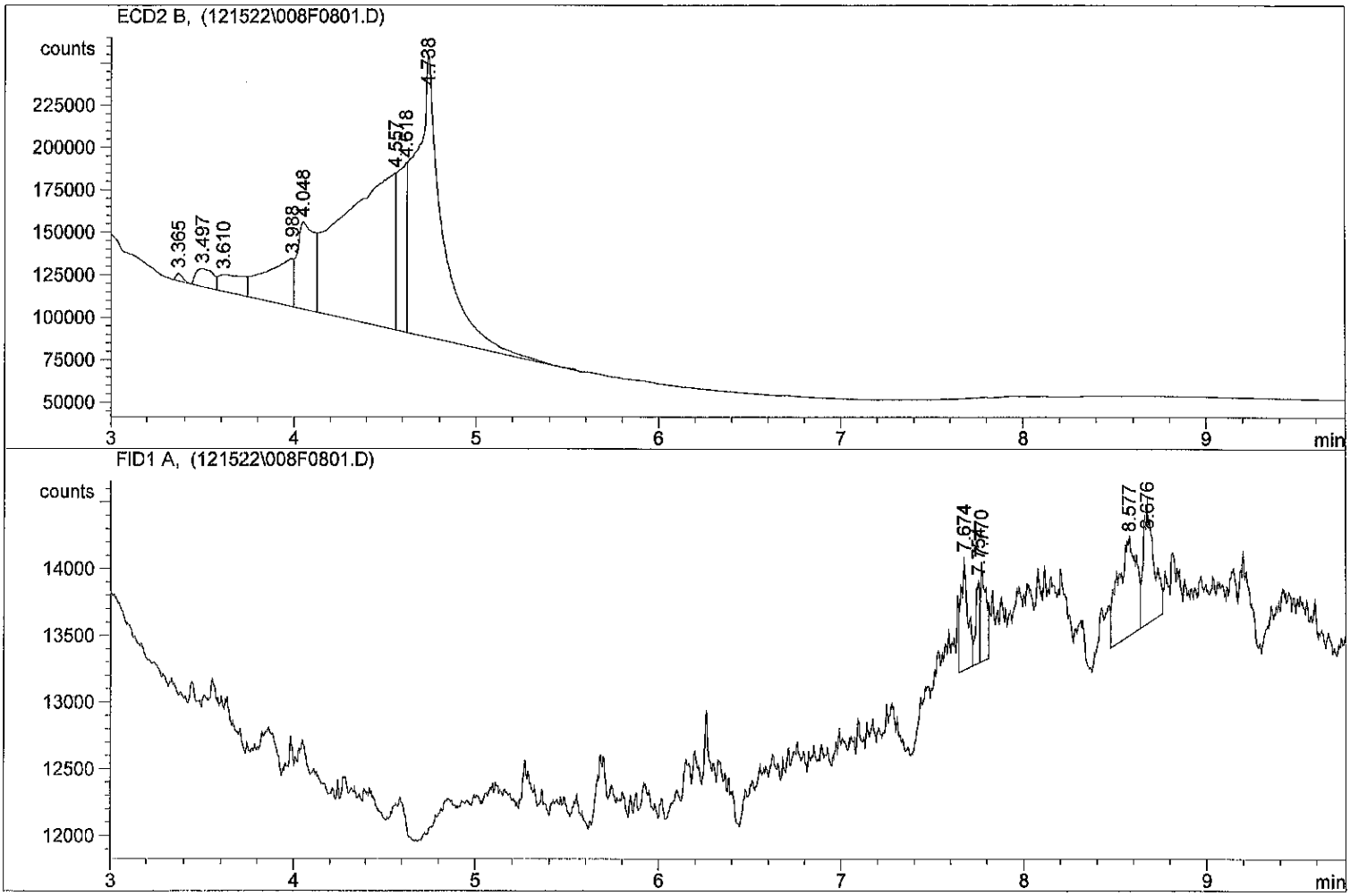
Injection Date	: 12/15/2022 6:35:13 PM	Seq. Line	: 7
Sample Name	: 22L0199 64	Location	: Vial 7
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121522.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 12/15/2022 6:49:01 PM Seq. Line : 8
Sample Name : 22L0199 65 Location : Vial 8
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

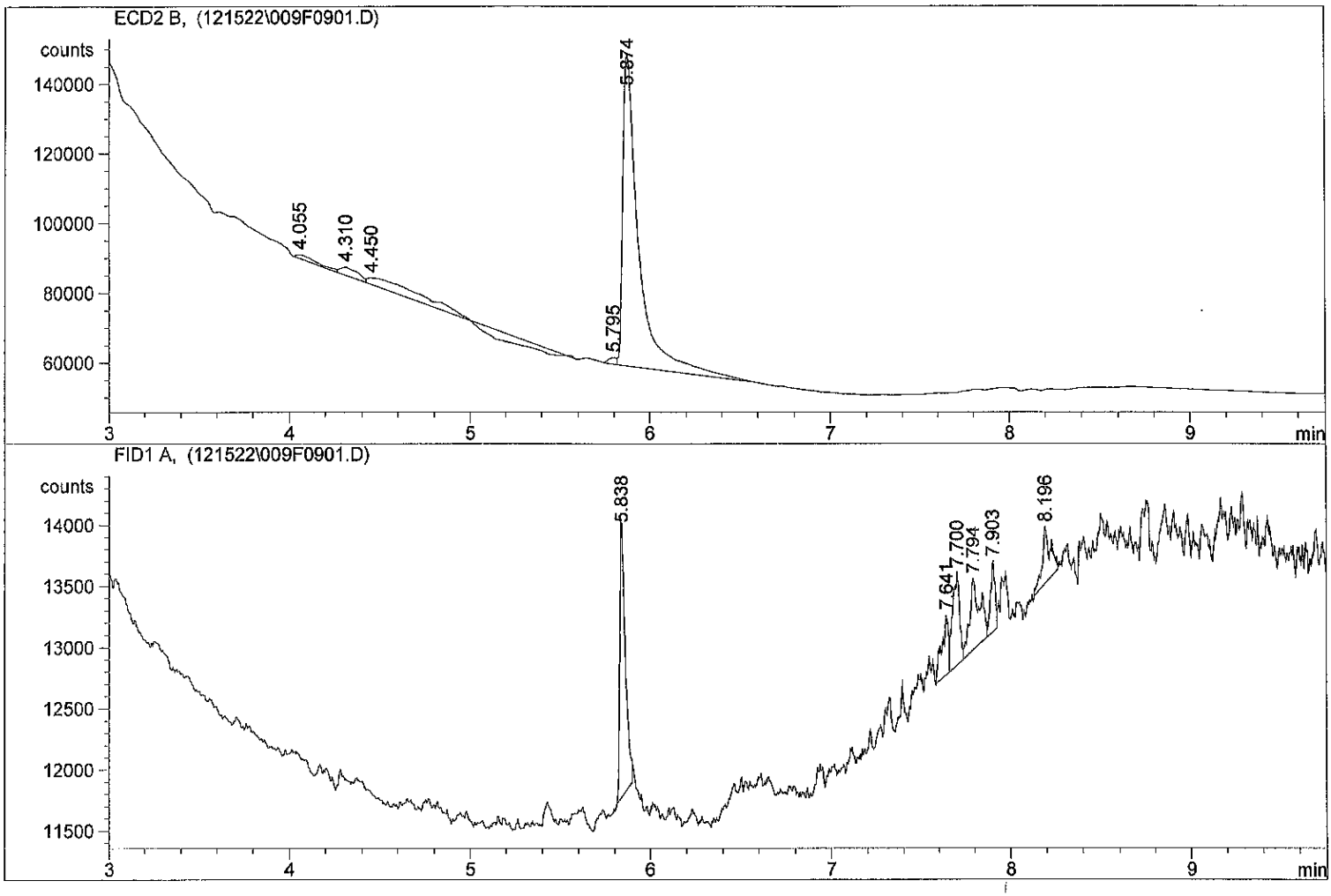
Sequence File : C:\HPCHEM\1\SEQUENCE\121522.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

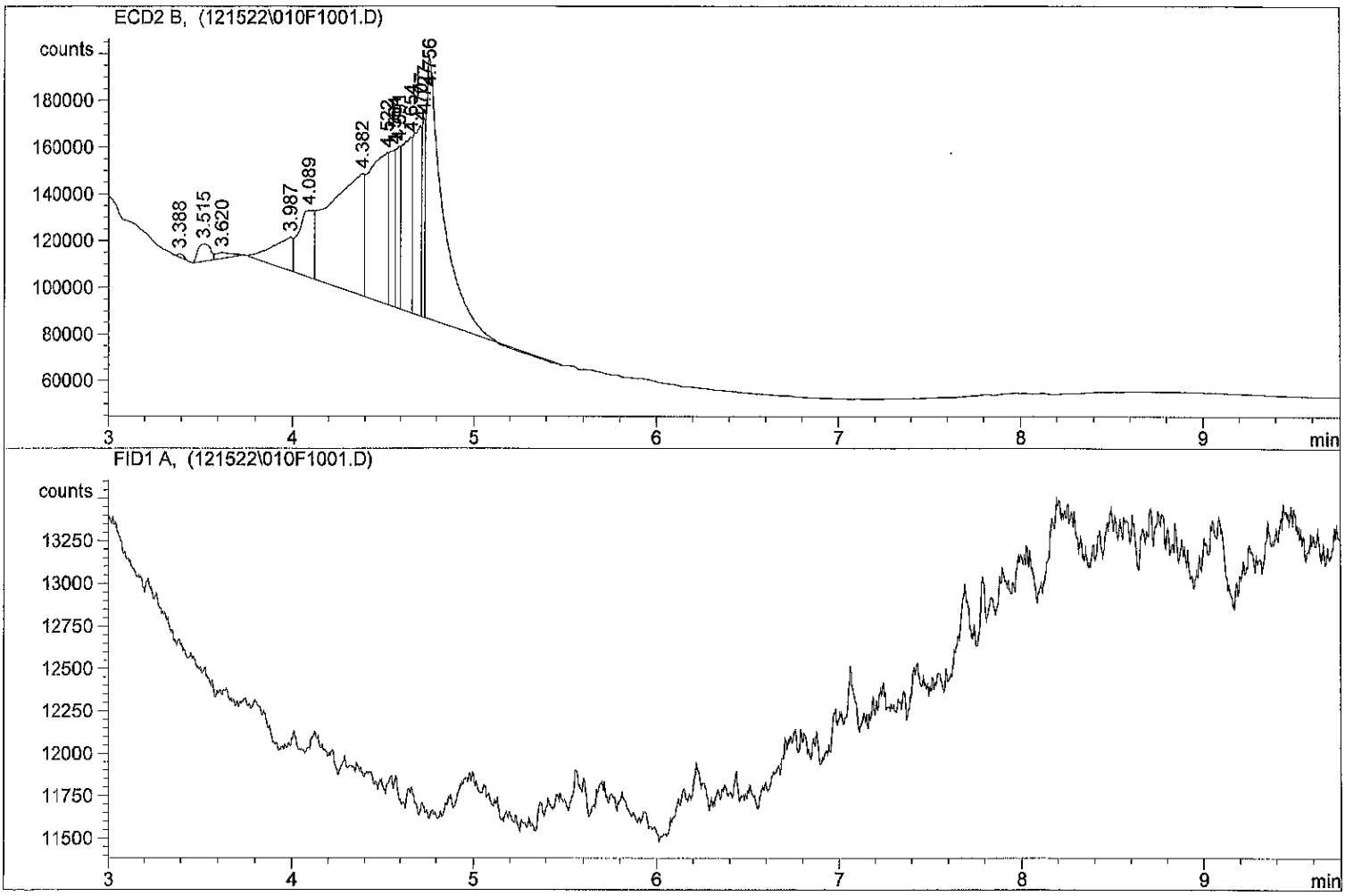
Injection Date : 12/15/2022 7:03:41 PM Seq. Line : 9
Sample Name : 22L0199 66 Location : Vial 9
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121522.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



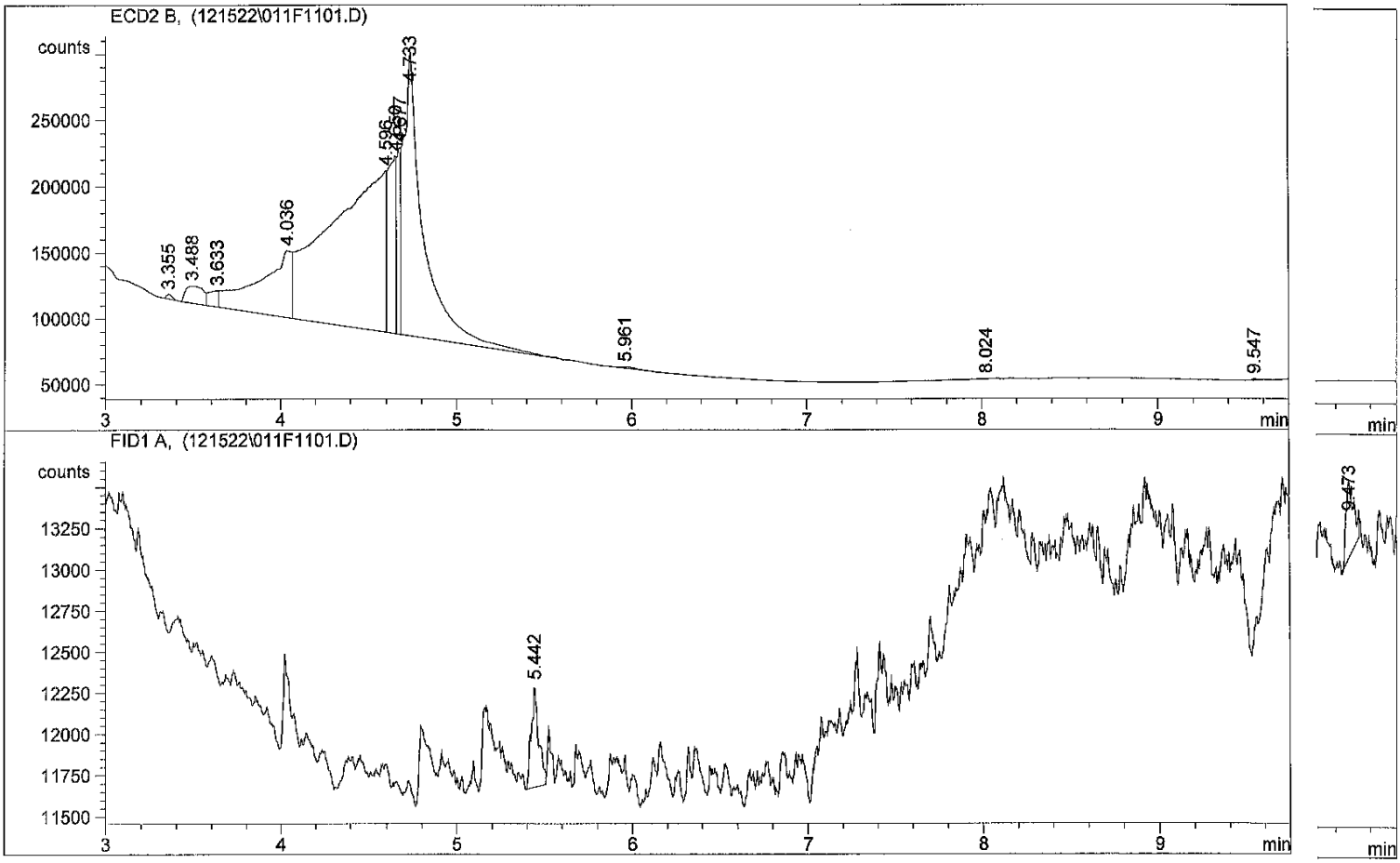
*** End of Report ***

Injection Date	: 12/15/2022 7:18:23 PM	Seq. Line	: 10
Sample Name	: 22L0199 67	Location	: Vial 10
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121522.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



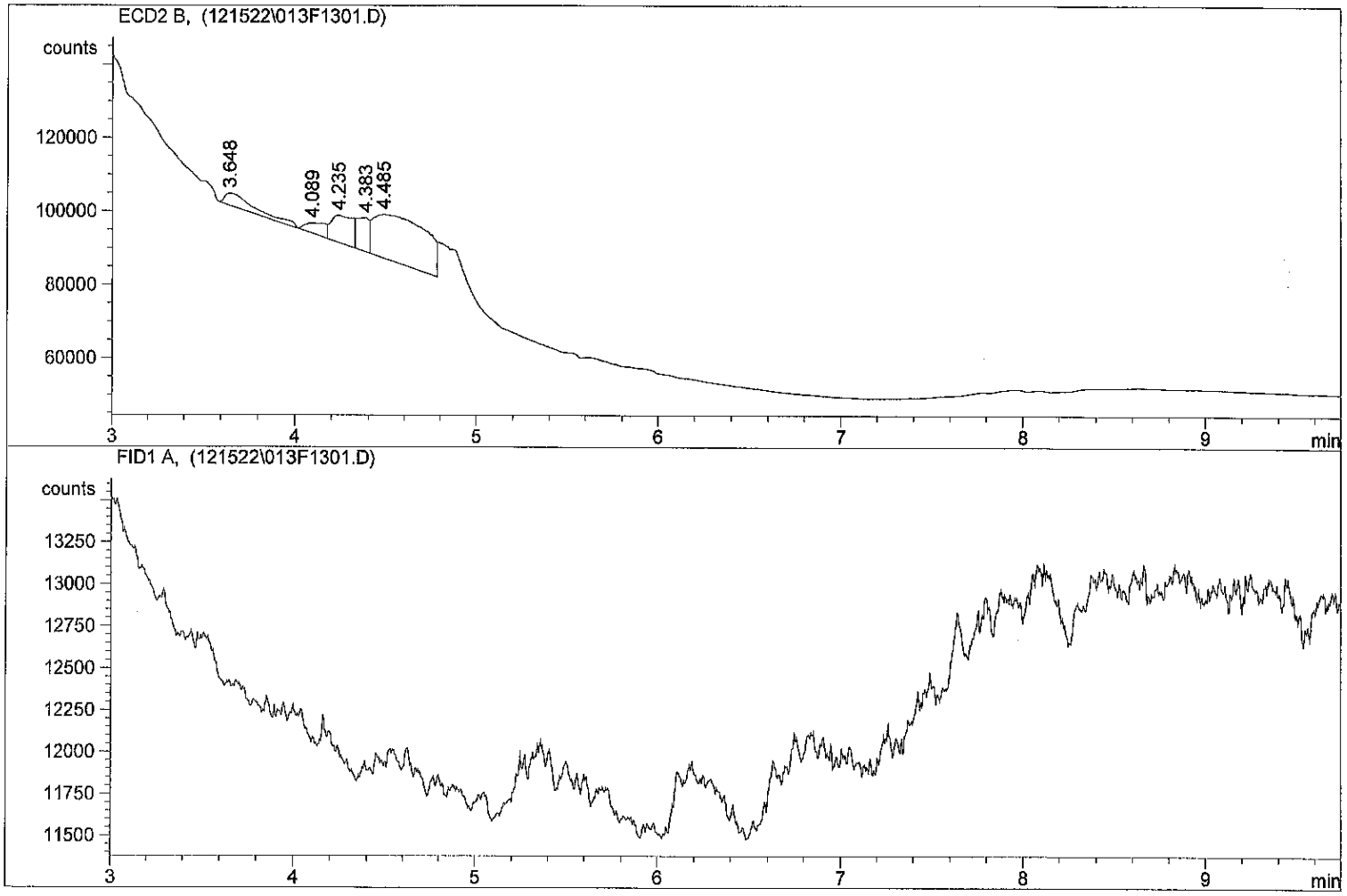
*** End of Report ***

Injection Date : 12/15/2022 7:32:59 PM Seq. Line : 11
Sample Name : 22L0199 68 Location : Vial 11
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\121522.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date	: 12/15/2022 8:00:19 PM	Seq. Line	: 13
Sample Name	: 22L0199 70	Location	: Vial 13
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121522.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0252	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC762D	22L0199-04	12312252ECD7.D	12/22/2022	
LDW22-IT789G	22L0199-12	12272262ECD7.D	12/22/2022	
LDW22-IT789H	22L0199-13	12292249ECD7.D	12/22/2022	
LDW22-IT789I	22L0199-14	12272264ECD7.D	12/22/2022	
LDW22-IT789I-FD	22L0199-15	12292250ECD7.D	12/22/2022	
LDW22-IT789J	22L0199-16	12272266ECD7.D	12/22/2022	
LDW22-IT789K	22L0199-17	12272267ECD7.D	12/22/2022	
LDW22-IT789L	22L0199-18	12272268ECD7.D	12/22/2022	
LDW22-IT790I	22L0199-19	12272269ECD7.D	12/22/2022	
LDW22-IT790J	22L0199-20	12272270ECD7.D	12/22/2022	
LDW22-SC762A	22L0199-01	12292241ECD7.D	12/22/2022	
LDW22-IT789F	22L0199-11	12272261ECD7.D	12/22/2022	
LDW22-SC762C	22L0199-03	12292243ECD7.D	12/22/2022	
Reference	BKL0401-SRM1	12272244ECD7.D	12/22/2022	
LDW22-SC762E	22L0199-05	12272253ECD7.D	12/22/2022	
LDW22-SC762F	22L0199-06	12272254ECD7.D	12/22/2022	
LDW22-SC762G	22L0199-07	01042307ECD7.D	12/22/2022	
LDW22-SC762H	22L0199-08	12272256ECD7.D	12/22/2022	
LDW22-SC762I	22L0199-09	12292248ECD7.D	12/22/2022	
LDW22-SC762J	22L0199-10	12272258ECD7.D	12/22/2022	
Blank	BKL0401-BLK1	12272241ECD7.D	12/22/2022	
LCS	BKL0401-BS1	12272242ECD7.D	12/22/2022	
LCS Dup	BKL0401-BSD1	12272243ECD7.D	12/22/2022	
Matrix Spike	BKL0401-MS1	12272245ECD7.D	12/22/2022	
Matrix Spike Dup	BKL0401-MSD1	12292240ECD7.D	12/22/2022	
LDW22-SC762B	22L0199-02	12292242ECD7.D	12/22/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0252

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/22/2022 4:42:26PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-01	B	LDW22-SC762A	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-02	B	LDW22-SC762B	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-03	B	LDW22-SC762C	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-04	B	LDW22-SC762D	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-05	B	LDW22-SC762E	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-06	B	LDW22-SC762F	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-07	B	LDW22-SC762G	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-08	B	LDW22-SC762H	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-09	B	LDW22-SC762I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-10	B	LDW22-SC762J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-11	B	LDW22-IT789F	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-12	B	LDW22-IT789G	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-13	B	LDW22-IT789H	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-14	B	LDW22-IT789I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-15	B	LDW22-IT789I-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-16	B	LDW22-IT789J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-17	B	LDW22-IT789K	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-18	B	LDW22-IT789L	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-19	B	LDW22-IT790I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-20	B	LDW22-IT790J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
BKL0401-BLK1	-	Blank	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-BS1	-	LCS	-	2.5	2.5	-	12/22/2022	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0252

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/22/2022 4:42:26PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0401-BSD1	-	LCS Dup	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-MS1	-	Matrix Spike	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-SRM1	-	Reference	-	2.5	2.5	-	12/22/2022	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0253	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3660C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC762D	22L0199-04	12312252ECD7.D	12/22/2022	
LDW22-IT789G	22L0199-12	12272262ECD7.D	12/22/2022	
LDW22-IT789H	22L0199-13	12292249ECD7.D	12/22/2022	
LDW22-IT789I	22L0199-14	12272264ECD7.D	12/22/2022	
LDW22-IT789I-FD	22L0199-15	12292250ECD7.D	12/22/2022	
LDW22-IT789J	22L0199-16	12272266ECD7.D	12/22/2022	
LDW22-IT789K	22L0199-17	12272267ECD7.D	12/22/2022	
LDW22-IT789L	22L0199-18	12272268ECD7.D	12/22/2022	
LDW22-IT790I	22L0199-19	12272269ECD7.D	12/22/2022	
LDW22-IT790J	22L0199-20	12272270ECD7.D	12/22/2022	
LDW22-SC762A	22L0199-01	12292241ECD7.D	12/22/2022	
LDW22-IT789F	22L0199-11	12272261ECD7.D	12/22/2022	
LDW22-SC762C	22L0199-03	12292243ECD7.D	12/22/2022	
Reference	BKL0401-SRM1	12272244ECD7.D	12/22/2022	
LDW22-SC762E	22L0199-05	12272253ECD7.D	12/22/2022	
LDW22-SC762F	22L0199-06	12272254ECD7.D	12/22/2022	
LDW22-SC762G	22L0199-07	01042307ECD7.D	12/22/2022	
LDW22-SC762H	22L0199-08	12272256ECD7.D	12/22/2022	
LDW22-SC762I	22L0199-09	12292248ECD7.D	12/22/2022	
LDW22-SC762J	22L0199-10	12272258ECD7.D	12/22/2022	
Blank	BKL0401-BLK1	12272241ECD7.D	12/22/2022	
LCS	BKL0401-BS1	12272242ECD7.D	12/22/2022	
LCS Dup	BKL0401-BSD1	12272243ECD7.D	12/22/2022	
Matrix Spike	BKL0401-MS1	12272245ECD7.D	12/22/2022	
Matrix Spike Dup	BKL0401-MSD1	12292240ECD7.D	12/22/2022	
LDW22-SC762B	22L0199-02	12292242ECD7.D	12/22/2022	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0253

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/22/2022 4:43:11PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-01	B	LDW22-SC762A	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-02	B	LDW22-SC762B	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-03	B	LDW22-SC762C	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-04	B	LDW22-SC762D	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-05	B	LDW22-SC762E	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-06	B	LDW22-SC762F	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-07	B	LDW22-SC762G	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-08	B	LDW22-SC762H	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-09	B	LDW22-SC762I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-10	B	LDW22-SC762J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-11	B	LDW22-IT789F	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-12	B	LDW22-IT789G	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-13	B	LDW22-IT789H	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-14	B	LDW22-IT789I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-15	B	LDW22-IT789I-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-16	B	LDW22-IT789J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-17	B	LDW22-IT789K	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-18	B	LDW22-IT789L	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-19	B	LDW22-IT790I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-20	B	LDW22-IT790J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
BKL0401-BLK1	-	Blank	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-BS1	-	LCS	-	2.5	2.5	-	12/22/2022	LMJ	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0253

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/22/2022 4:43:11PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0401-BSD1	-	LCS Dup	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-MS1	-	Matrix Spike	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-SRM1	-	Reference	-	2.5	2.5	-	12/22/2022	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0254	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC762D	22L0199-04	12312252ECD7.D	12/22/2022	
LDW22-IT789G	22L0199-12	12272262ECD7.D	12/22/2022	
LDW22-IT789H	22L0199-13	12292249ECD7.D	12/22/2022	
LDW22-IT789I	22L0199-14	12272264ECD7.D	12/22/2022	
LDW22-IT789I-FD	22L0199-15	12292250ECD7.D	12/22/2022	
LDW22-IT789J	22L0199-16	12272266ECD7.D	12/22/2022	
LDW22-IT789K	22L0199-17	12272267ECD7.D	12/22/2022	
LDW22-IT789L	22L0199-18	12272268ECD7.D	12/22/2022	
LDW22-IT790I	22L0199-19	12272269ECD7.D	12/22/2022	
LDW22-IT790J	22L0199-20	12272270ECD7.D	12/22/2022	
LDW22-SC762A	22L0199-01	12292241ECD7.D	12/22/2022	
LDW22-IT789F	22L0199-11	12272261ECD7.D	12/22/2022	
LDW22-SC762C	22L0199-03	12292243ECD7.D	12/22/2022	
Reference	BKL0401-SRM1	12272244ECD7.D	12/22/2022	
LDW22-SC762E	22L0199-05	12272253ECD7.D	12/22/2022	
LDW22-SC762F	22L0199-06	12272254ECD7.D	12/22/2022	
LDW22-SC762G	22L0199-07	01042307ECD7.D	12/22/2022	
LDW22-SC762H	22L0199-08	12272256ECD7.D	12/22/2022	
LDW22-SC762I	22L0199-09	12292248ECD7.D	12/22/2022	
LDW22-SC762J	22L0199-10	12272258ECD7.D	12/22/2022	
Blank	BKL0401-BLK1	12272241ECD7.D	12/22/2022	
LCS	BKL0401-BS1	12272242ECD7.D	12/22/2022	
LCS Dup	BKL0401-BSD1	12272243ECD7.D	12/22/2022	
Matrix Spike	BKL0401-MS1	12272245ECD7.D	12/22/2022	
Matrix Spike Dup	BKL0401-MSD1	12292240ECD7.D	12/22/2022	
LDW22-SC762B	22L0199-02	12292242ECD7.D	12/22/2022	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0254

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/22/2022 4:43:51PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-01	B	LDW22-SC762A	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-02	B	LDW22-SC762B	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-03	B	LDW22-SC762C	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-04	B	LDW22-SC762D	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-05	B	LDW22-SC762E	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-06	B	LDW22-SC762F	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-07	B	LDW22-SC762G	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-08	B	LDW22-SC762H	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-09	B	LDW22-SC762I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-10	B	LDW22-SC762J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-11	B	LDW22-IT789F	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-12	B	LDW22-IT789G	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-13	B	LDW22-IT789H	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-14	B	LDW22-IT789I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-15	B	LDW22-IT789I-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-16	B	LDW22-IT789J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-17	B	LDW22-IT789K	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-18	B	LDW22-IT789L	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-19	B	LDW22-IT790I	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
22L0199-20	B	LDW22-IT790J	B 01	2.5	2.5	8082A PCB Solid 4	12/22/2022	LMJ	
BKL0401-BLK1	-	Blank	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-BS1	-	LCS	-	2.5	2.5	-	12/22/2022	LMJ	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0254

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/22/2022 4:43:51PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0401-BSD1	-	LCS Dup	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-MS1	-	Matrix Spike	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/22/2022	LMJ	
BKL0401-SRM1	-	Reference	-	2.5	2.5	-	12/22/2022	LMJ	

Analytical Resources, LLC
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CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0264	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC787F	22L0199-41	01052370ECD7.D	12/27/2022	
LDW22-SC761B	22L0199-49	12312253ECD7.D	12/27/2022	
LDW22-SC761C	22L0199-50	12312254ECD7.D	12/27/2022	
LDW22-SC761D	22L0199-51	12312255ECD7.D	12/27/2022	
LDW22-SC761D-FD	22L0199-52	12312256ECD7.D	12/27/2022	
LDW22-SC761E	22L0199-53	12272231ECD7.D	12/27/2022	
LDW22-SC761F	22L0199-54	12312257ECD7.D	12/27/2022	
LDW22-SC761G	22L0199-55	12272233ECD7.D	12/27/2022	
LDW22-SC761H	22L0199-56	12272234ECD7.D	12/27/2022	
LDW22-SC761I	22L0199-57	12272235ECD7.D	12/27/2022	
LDW22-SC761J	22L0199-58	12272236ECD7.D	12/27/2022	
LDW22-SC761A	22L0199-48	12272224ECD7.D	12/27/2022	
LDW22-SC761L	22L0199-60	12272238ECD7.D	12/27/2022	
Reference	BKL0404-SRM1	12272212ECD7.D	12/27/2022	
LDW22-SC787G	22L0199-42	01052371ECD7.D	12/27/2022	
LDW22-SC787H	22L0199-43	12292237ECD7.D	12/27/2022	
LDW22-SC787I	22L0199-44	01032327ECD7.D	12/27/2022	
LDW22-SC787J	22L0199-45	01032328ECD7.D	12/27/2022	
LDW22-SC787K	22L0199-46	12272222ECD7.D	12/27/2022	
LDW22-SC787L	22L0199-47	12272223ECD7.D	12/27/2022	
Blank	BKL0404-BLK1	12272209ECD7.D	12/27/2022	
LCS	BKL0404-BS1	12272210ECD7.D	12/27/2022	
LCS Dup	BKL0404-BSD1	12272211ECD7.D	12/27/2022	
Matrix Spike	BKL0404-MS1	12272213ECD7.D	12/27/2022	
Matrix Spike Dup	BKL0404-MSD1	12272214ECD7.D	12/27/2022	
LDW22-SC761K	22L0199-59	12272237ECD7.D	12/27/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0264

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/27/2022 1:34:40PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-41	B	LDW22-SC787F	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-42	B	LDW22-SC787G	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-43	B	LDW22-SC787H	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-44	B	LDW22-SC787I	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-45	B	LDW22-SC787J	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-46	B	LDW22-SC787K	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-47	B	LDW22-SC787L	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-48	B	LDW22-SC761A	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-49	B	LDW22-SC761B	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-50	B	LDW22-SC761C	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-51	B	LDW22-SC761D	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-52	B	LDW22-SC761D-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-53	B	LDW22-SC761E	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-54	B	LDW22-SC761F	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-55	B	LDW22-SC761G	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-56	B	LDW22-SC761H	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-57	B	LDW22-SC761I	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-58	B	LDW22-SC761J	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-59	B	LDW22-SC761K	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-60	B	LDW22-SC761L	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
BKL0404-BLK1	-	Blank	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-BS1	-	LCS	-	2.5	2.5	-	12/27/2022	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0264

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/27/2022 1:34:40PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0404-BSD1	-	LCS Dup	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-MS1	-	Matrix Spike	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-SRM1	-	Reference	-	2.5	2.5	-	12/27/2022	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0265	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3660C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC787F	22L0199-41	01052370ECD7.D	12/27/2022	
LDW22-SC761B	22L0199-49	12312253ECD7.D	12/27/2022	
LDW22-SC761C	22L0199-50	12312254ECD7.D	12/27/2022	
LDW22-SC761D	22L0199-51	12312255ECD7.D	12/27/2022	
LDW22-SC761D-FD	22L0199-52	12312256ECD7.D	12/27/2022	
LDW22-SC761E	22L0199-53	12272231ECD7.D	12/27/2022	
LDW22-SC761F	22L0199-54	12312257ECD7.D	12/27/2022	
LDW22-SC761G	22L0199-55	12272233ECD7.D	12/27/2022	
LDW22-SC761H	22L0199-56	12272234ECD7.D	12/27/2022	
LDW22-SC761I	22L0199-57	12272235ECD7.D	12/27/2022	
LDW22-SC761J	22L0199-58	12272236ECD7.D	12/27/2022	
LDW22-SC761A	22L0199-48	12272224ECD7.D	12/27/2022	
LDW22-SC761L	22L0199-60	12272238ECD7.D	12/27/2022	
Reference	BKL0404-SRM1	12272212ECD7.D	12/27/2022	
LDW22-SC787G	22L0199-42	01052371ECD7.D	12/27/2022	
LDW22-SC787H	22L0199-43	12292237ECD7.D	12/27/2022	
LDW22-SC787I	22L0199-44	01032327ECD7.D	12/27/2022	
LDW22-SC787J	22L0199-45	01032328ECD7.D	12/27/2022	
LDW22-SC787K	22L0199-46	12272222ECD7.D	12/27/2022	
LDW22-SC787L	22L0199-47	12272223ECD7.D	12/27/2022	
Blank	BKL0404-BLK1	12272209ECD7.D	12/27/2022	
LCS	BKL0404-BS1	12272210ECD7.D	12/27/2022	
LCS Dup	BKL0404-BSD1	12272211ECD7.D	12/27/2022	
Matrix Spike	BKL0404-MS1	12272213ECD7.D	12/27/2022	
Matrix Spike Dup	BKL0404-MSD1	12272214ECD7.D	12/27/2022	
LDW22-SC761K	22L0199-59	12272237ECD7.D	12/27/2022	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0265

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/27/2022 1:35:19PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-41	B	LDW22-SC787F	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-42	B	LDW22-SC787G	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-43	B	LDW22-SC787H	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-44	B	LDW22-SC787I	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-45	B	LDW22-SC787J	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-46	B	LDW22-SC787K	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-47	B	LDW22-SC787L	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-48	B	LDW22-SC761A	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-49	B	LDW22-SC761B	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-50	B	LDW22-SC761C	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-51	B	LDW22-SC761D	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-52	B	LDW22-SC761D-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-53	B	LDW22-SC761E	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-54	B	LDW22-SC761F	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-55	B	LDW22-SC761G	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-56	B	LDW22-SC761H	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-57	B	LDW22-SC761I	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-58	B	LDW22-SC761J	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-59	B	LDW22-SC761K	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-60	B	LDW22-SC761L	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
BKL0404-BLK1	-	Blank	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-BS1	-	LCS	-	2.5	2.5	-	12/27/2022	LMJ	

CLEANUP BENCH SHEET

CKL0265

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/27/2022 1:35:19PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0404-BSD1	-	LCS Dup	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-MS1	-	Matrix Spike	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-SRM1	-	Reference	-	2.5	2.5	-	12/27/2022	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0266	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC787F	22L0199-41	01052370ECD7.D	12/27/2022	
LDW22-SC761B	22L0199-49	12312253ECD7.D	12/27/2022	
LDW22-SC761C	22L0199-50	12312254ECD7.D	12/27/2022	
LDW22-SC761D	22L0199-51	12312255ECD7.D	12/27/2022	
LDW22-SC761D-FD	22L0199-52	12312256ECD7.D	12/27/2022	
LDW22-SC761E	22L0199-53	12272231ECD7.D	12/27/2022	
LDW22-SC761F	22L0199-54	12312257ECD7.D	12/27/2022	
LDW22-SC761G	22L0199-55	12272233ECD7.D	12/27/2022	
LDW22-SC761H	22L0199-56	12272234ECD7.D	12/27/2022	
LDW22-SC761I	22L0199-57	12272235ECD7.D	12/27/2022	
LDW22-SC761J	22L0199-58	12272236ECD7.D	12/27/2022	
LDW22-SC761A	22L0199-48	12272224ECD7.D	12/27/2022	
LDW22-SC761L	22L0199-60	12272238ECD7.D	12/27/2022	
Reference	BKL0404-SRM1	12272212ECD7.D	12/27/2022	
LDW22-SC787G	22L0199-42	01052371ECD7.D	12/27/2022	
LDW22-SC787H	22L0199-43	12292237ECD7.D	12/27/2022	
LDW22-SC787I	22L0199-44	01032327ECD7.D	12/27/2022	
LDW22-SC787J	22L0199-45	01032328ECD7.D	12/27/2022	
LDW22-SC787K	22L0199-46	12272222ECD7.D	12/27/2022	
LDW22-SC787L	22L0199-47	12272223ECD7.D	12/27/2022	
Blank	BKL0404-BLK1	12272209ECD7.D	12/27/2022	
LCS	BKL0404-BS1	12272210ECD7.D	12/27/2022	
LCS Dup	BKL0404-BSD1	12272211ECD7.D	12/27/2022	
Matrix Spike	BKL0404-MS1	12272213ECD7.D	12/27/2022	
Matrix Spike Dup	BKL0404-MSD1	12272214ECD7.D	12/27/2022	
LDW22-SC761K	22L0199-59	12272237ECD7.D	12/27/2022	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0266

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/27/2022 1:36:02PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-41	B	LDW22-SC787F	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-42	B	LDW22-SC787G	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-43	B	LDW22-SC787H	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-44	B	LDW22-SC787I	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-45	B	LDW22-SC787J	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-46	B	LDW22-SC787K	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-47	B	LDW22-SC787L	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-48	B	LDW22-SC761A	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-49	B	LDW22-SC761B	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-50	B	LDW22-SC761C	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-51	B	LDW22-SC761D	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-52	B	LDW22-SC761D-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-53	B	LDW22-SC761E	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-54	B	LDW22-SC761F	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-55	B	LDW22-SC761G	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-56	B	LDW22-SC761H	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-57	B	LDW22-SC761I	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-58	B	LDW22-SC761J	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-59	B	LDW22-SC761K	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
22L0199-60	B	LDW22-SC761L	B 01	2.5	2.5	8082A PCB Solid 4	12/27/2022	LMJ	
BKL0404-BLK1	-	Blank	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-BS1	-	LCS	-	2.5	2.5	-	12/27/2022	LMJ	

CLEANUP BENCH SHEET

CKL0266

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/27/2022 1:36:02PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0404-BSD1	-	LCS Dup	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-MS1	-	Matrix Spike	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/27/2022	LMJ	
BKL0404-SRM1	-	Reference	-	2.5	2.5	-	12/27/2022	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0290	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC802E	22L0199-28	01052377ECD7.D	12/29/2022	
LDW22-IT790L	22L0199-22	12302217ECD7.D	12/29/2022	
LDW22-IT790M	22L0199-23	12302218ECD7.D	12/29/2022	
LDW22-SC787A	22L0199-36	01052383ECD7.D	12/29/2022	
LDW22-SC787B	22L0199-37	01052386ECD7.D	12/29/2022	
LDW22-SC787C	22L0199-38	01052387ECD7.D	12/29/2022	
LDW22-SC787D	22L0199-39	01052388ECD7.D	12/29/2022	
LDW22-SC787E	22L0199-40	01052369ECD7.D	12/29/2022	
LDW22-SC802A	22L0199-24	01042352ECD7.D	12/29/2022	
LDW22-SC802B	22L0199-25	01052374ECD7.D	12/29/2022	
LDW22-SC802C	22L0199-26	01052375ECD7.D	12/29/2022	
LDW22-IT790K	22L0199-21	12302216ECD7.D	12/29/2022	
LDW22-SC802D	22L0199-27	01052376ECD7.D	12/29/2022	
Reference	BKL0402-SRM1	12302213ECD7.D	12/29/2022	
LDW22-SC802F	22L0199-29	01052378ECD7.D	12/29/2022	
LDW22-SC802G	22L0199-30	01052379ECD7.D	12/29/2022	
LDW22-SC802H	22L0199-31	01032309ECD7.D	12/29/2022	
LDW22-SC802I	22L0199-32	01032310ECD7.D	12/29/2022	
LDW22-SC802J	22L0199-33	01052380ECD7.D	12/29/2022	
LDW22-SC802K	22L0199-34	01052381ECD7.D	12/29/2022	
Blank	BKL0402-BLK1	12302210ECD7.D	12/29/2022	
LCS	BKL0402-BS1	12302211ECD7.D	12/29/2022	
LCS Dup	BKL0402-BSD1	12302212ECD7.D	12/29/2022	
Matrix Spike	BKL0402-MS1	12302214ECD7.D	12/29/2022	
Matrix Spike Dup	BKL0402-MSD1	12302215ECD7.D	12/29/2022	
LDW22-SC802C-FD	22L0199-35	01052382ECD7.D	12/29/2022	

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CLEANUP BENCH SHEET

CKL0290

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/29/2022 4:13:13PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-21	B	LDW22-IT790K	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-22	B	LDW22-IT790L	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-23	B	LDW22-IT790M	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-24	B	LDW22-SC802A	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-25	B	LDW22-SC802B	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-26	B	LDW22-SC802C	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-27	B	LDW22-SC802D	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-28	B	LDW22-SC802E	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-29	B	LDW22-SC802F	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-30	B	LDW22-SC802G	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-31	B	LDW22-SC802H	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-32	B	LDW22-SC802I	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-33	B	LDW22-SC802J	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-34	B	LDW22-SC802K	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-35	B	LDW22-SC802C-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-36	B	LDW22-SC787A	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-37	B	LDW22-SC787B	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-38	B	LDW22-SC787C	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-39	B	LDW22-SC787D	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-40	B	LDW22-SC787E	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
BKL0402-BLK1	-	Blank	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-BS1	-	LCS	-	2.5	2.5	-	12/29/2022	NRB	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0290

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/29/2022 4:13:13PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0402-BSD1	-	LCS Dup	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-MS1	-	Matrix Spike	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-SRM1	-	Reference	-	2.5	2.5	-	12/29/2022	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0291	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC802E	22L0199-28	01052377ECD7.D	12/29/2022	
LDW22-IT790L	22L0199-22	12302217ECD7.D	12/29/2022	
LDW22-IT790M	22L0199-23	12302218ECD7.D	12/29/2022	
LDW22-SC787A	22L0199-36	01052383ECD7.D	12/29/2022	
LDW22-SC787B	22L0199-37	01052386ECD7.D	12/29/2022	
LDW22-SC787C	22L0199-38	01052387ECD7.D	12/29/2022	
LDW22-SC787D	22L0199-39	01052388ECD7.D	12/29/2022	
LDW22-SC787E	22L0199-40	01052369ECD7.D	12/29/2022	
LDW22-SC802A	22L0199-24	01042352ECD7.D	12/29/2022	
LDW22-SC802B	22L0199-25	01052374ECD7.D	12/29/2022	
LDW22-SC802C	22L0199-26	01052375ECD7.D	12/29/2022	
LDW22-IT790K	22L0199-21	12302216ECD7.D	12/29/2022	
LDW22-SC802D	22L0199-27	01052376ECD7.D	12/29/2022	
Reference	BKL0402-SRM1	12302213ECD7.D	12/29/2022	
LDW22-SC802F	22L0199-29	01052378ECD7.D	12/29/2022	
LDW22-SC802G	22L0199-30	01052379ECD7.D	12/29/2022	
LDW22-SC802H	22L0199-31	01032309ECD7.D	12/29/2022	
LDW22-SC802I	22L0199-32	01032310ECD7.D	12/29/2022	
LDW22-SC802J	22L0199-33	01052380ECD7.D	12/29/2022	
LDW22-SC802K	22L0199-34	01052381ECD7.D	12/29/2022	
Blank	BKL0402-BLK1	12302210ECD7.D	12/29/2022	
LCS	BKL0402-BS1	12302211ECD7.D	12/29/2022	
LCS Dup	BKL0402-BSD1	12302212ECD7.D	12/29/2022	
Matrix Spike	BKL0402-MS1	12302214ECD7.D	12/29/2022	
Matrix Spike Dup	BKL0402-MSD1	12302215ECD7.D	12/29/2022	
LDW22-SC802C-FD	22L0199-35	01052382ECD7.D	12/29/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0291

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/29/2022 4:14:03PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-21	B	LDW22-IT790K	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-22	B	LDW22-IT790L	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-23	B	LDW22-IT790M	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-24	B	LDW22-SC802A	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-25	B	LDW22-SC802B	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-26	B	LDW22-SC802C	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-27	B	LDW22-SC802D	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-28	B	LDW22-SC802E	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-29	B	LDW22-SC802F	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-30	B	LDW22-SC802G	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-31	B	LDW22-SC802H	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-32	B	LDW22-SC802I	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-33	B	LDW22-SC802J	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-34	B	LDW22-SC802K	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-35	B	LDW22-SC802C-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-36	B	LDW22-SC787A	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-37	B	LDW22-SC787B	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-38	B	LDW22-SC787C	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-39	B	LDW22-SC787D	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-40	B	LDW22-SC787E	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
BKL0402-BLK1	-	Blank	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-BS1	-	LCS	-	2.5	2.5	-	12/29/2022	NRB	

CLEANUP BENCH SHEET

CKL0291

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/29/2022 4:14:03PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0402-BSD1	-	LCS Dup	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-MS1	-	Matrix Spike	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-SRM1	-	Reference	-	2.5	2.5	-	12/29/2022	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0292	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3660C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC802E	22L0199-28	01052377ECD7.D	12/29/2022	
LDW22-IT790L	22L0199-22	12302217ECD7.D	12/29/2022	
LDW22-IT790M	22L0199-23	12302218ECD7.D	12/29/2022	
LDW22-SC787A	22L0199-36	01052383ECD7.D	12/29/2022	
LDW22-SC787B	22L0199-37	01052386ECD7.D	12/29/2022	
LDW22-SC787C	22L0199-38	01052387ECD7.D	12/29/2022	
LDW22-SC787D	22L0199-39	01052388ECD7.D	12/29/2022	
LDW22-SC787E	22L0199-40	01052369ECD7.D	12/29/2022	
LDW22-SC802A	22L0199-24	01042352ECD7.D	12/29/2022	
LDW22-SC802B	22L0199-25	01052374ECD7.D	12/29/2022	
LDW22-SC802C	22L0199-26	01052375ECD7.D	12/29/2022	
LDW22-IT790K	22L0199-21	12302216ECD7.D	12/29/2022	
LDW22-SC802D	22L0199-27	01052376ECD7.D	12/29/2022	
Reference	BKL0402-SRM1	12302213ECD7.D	12/29/2022	
LDW22-SC802F	22L0199-29	01052378ECD7.D	12/29/2022	
LDW22-SC802G	22L0199-30	01052379ECD7.D	12/29/2022	
LDW22-SC802H	22L0199-31	01032309ECD7.D	12/29/2022	
LDW22-SC802I	22L0199-32	01032310ECD7.D	12/29/2022	
LDW22-SC802J	22L0199-33	01052380ECD7.D	12/29/2022	
LDW22-SC802K	22L0199-34	01052381ECD7.D	12/29/2022	
Blank	BKL0402-BLK1	12302210ECD7.D	12/29/2022	
LCS	BKL0402-BS1	12302211ECD7.D	12/29/2022	
LCS Dup	BKL0402-BSD1	12302212ECD7.D	12/29/2022	
Matrix Spike	BKL0402-MS1	12302214ECD7.D	12/29/2022	
Matrix Spike Dup	BKL0402-MSD1	12302215ECD7.D	12/29/2022	
LDW22-SC802C-FD	22L0199-35	01052382ECD7.D	12/29/2022	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0292

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/29/2022 4:14:46PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-21	B	LDW22-IT790K	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-22	B	LDW22-IT790L	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-23	B	LDW22-IT790M	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-24	B	LDW22-SC802A	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-25	B	LDW22-SC802B	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-26	B	LDW22-SC802C	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-27	B	LDW22-SC802D	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-28	B	LDW22-SC802E	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-29	B	LDW22-SC802F	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-30	B	LDW22-SC802G	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-31	B	LDW22-SC802H	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-32	B	LDW22-SC802I	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-33	B	LDW22-SC802J	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-34	B	LDW22-SC802K	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-35	B	LDW22-SC802C-FD	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-36	B	LDW22-SC787A	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-37	B	LDW22-SC787B	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-38	B	LDW22-SC787C	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-39	B	LDW22-SC787D	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
22L0199-40	B	LDW22-SC787E	B 01	2.5	2.5	8082A PCB Solid 4	12/29/2022	NRB	
BKL0402-BLK1	-	Blank	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-BS1	-	LCS	-	2.5	2.5	-	12/29/2022	NRB	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CKL0292

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/29/2022 4:14:46PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0402-BSD1	-	LCS Dup	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-MS1	-	Matrix Spike	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/29/2022	NRB	
BKL0402-SRM1	-	Reference	-	2.5	2.5	-	12/29/2022	NRB	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0305	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC758J	22L0199-69	12312218ECD7.D	12/30/2022	
LDW22-SC758C	22L0199-62	01032305ECD7.D	12/30/2022	
LDW22-SC758D	22L0199-63	12312212ECD7.D	12/30/2022	
LDW22-SC758E	22L0199-64	12312213ECD7.D	12/30/2022	
LDW22-SC758F	22L0199-65	12312214ECD7.D	12/30/2022	
LDW22-SC758G	22L0199-66	12312215ECD7.D	12/30/2022	
LDW22-SC758B	22L0199-61	01032304ECD7.D	12/30/2022	
LDW22-SC758I	22L0199-68	12312217ECD7.D	12/30/2022	
Reference	BKL0488-SRM1	12312207ECD7.D	12/30/2022	
LDW22-SC758K	22L0199-70	12312219ECD7.D	12/30/2022	
Blank	BKL0488-BLK1	12312204ECD7.D	12/30/2022	
LCS	BKL0488-BS1	12312205ECD7.D	12/30/2022	
LCS Dup	BKL0488-BSD1	12312206ECD7.D	12/30/2022	
Matrix Spike	BKL0488-MS1	12312208ECD7.D	12/30/2022	
Matrix Spike Dup	BKL0488-MSD1	12312209ECD7.D	12/30/2022	
LDW22-SC758H	22L0199-67	12312216ECD7.D	12/30/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0305

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/30/2022 3:01:58PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-61	B	LDW22-SC758B	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-62	B	LDW22-SC758C	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-63	B	LDW22-SC758D	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-64	B	LDW22-SC758E	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-65	B	LDW22-SC758F	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-66	B	LDW22-SC758G	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-67	B	LDW22-SC758H	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-68	B	LDW22-SC758I	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-69	B	LDW22-SC758J	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-70	B	LDW22-SC758K	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
BKL0488-BLK1	-	Blank	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-BS1	-	LCS	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-BSD1	-	LCS Dup	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-MS1	-	Matrix Spike	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-SRM1	-	Reference	-	2.5	2.5	-	12/30/2022	ZH	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0306	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC758J	22L0199-69	12312218ECD7.D	12/30/2022	
LDW22-SC758C	22L0199-62	01032305ECD7.D	12/30/2022	
LDW22-SC758D	22L0199-63	12312212ECD7.D	12/30/2022	
LDW22-SC758E	22L0199-64	12312213ECD7.D	12/30/2022	
LDW22-SC758F	22L0199-65	12312214ECD7.D	12/30/2022	
LDW22-SC758G	22L0199-66	12312215ECD7.D	12/30/2022	
LDW22-SC758B	22L0199-61	01032304ECD7.D	12/30/2022	
LDW22-SC758I	22L0199-68	12312217ECD7.D	12/30/2022	
Reference	BKL0488-SRM1	12312207ECD7.D	12/30/2022	
LDW22-SC758K	22L0199-70	12312219ECD7.D	12/30/2022	
Blank	BKL0488-BLK1	12312204ECD7.D	12/30/2022	
LCS	BKL0488-BS1	12312205ECD7.D	12/30/2022	
LCS Dup	BKL0488-BSD1	12312206ECD7.D	12/30/2022	
Matrix Spike	BKL0488-MS1	12312208ECD7.D	12/30/2022	
Matrix Spike Dup	BKL0488-MSD1	12312209ECD7.D	12/30/2022	
LDW22-SC758H	22L0199-67	12312216ECD7.D	12/30/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0306

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/30/2022 3:02:52PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-61	B	LDW22-SC758B	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-62	B	LDW22-SC758C	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-63	B	LDW22-SC758D	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-64	B	LDW22-SC758E	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-65	B	LDW22-SC758F	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-66	B	LDW22-SC758G	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-67	B	LDW22-SC758H	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-68	B	LDW22-SC758I	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-69	B	LDW22-SC758J	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-70	B	LDW22-SC758K	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
BKL0488-BLK1	-	Blank	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-BS1	-	LCS	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-BSD1	-	LCS Dup	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-MS1	-	Matrix Spike	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-SRM1	-	Reference	-	2.5	2.5	-	12/30/2022	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0307	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3660C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC758J	22L0199-69	12312218ECD7.D	12/30/2022	
LDW22-SC758C	22L0199-62	01032305ECD7.D	12/30/2022	
LDW22-SC758D	22L0199-63	12312212ECD7.D	12/30/2022	
LDW22-SC758E	22L0199-64	12312213ECD7.D	12/30/2022	
LDW22-SC758F	22L0199-65	12312214ECD7.D	12/30/2022	
LDW22-SC758G	22L0199-66	12312215ECD7.D	12/30/2022	
LDW22-SC758B	22L0199-61	01032304ECD7.D	12/30/2022	
LDW22-SC758I	22L0199-68	12312217ECD7.D	12/30/2022	
Reference	BKL0488-SRM1	12312207ECD7.D	12/30/2022	
LDW22-SC758K	22L0199-70	12312219ECD7.D	12/30/2022	
Blank	BKL0488-BLK1	12312204ECD7.D	12/30/2022	
LCS	BKL0488-BS1	12312205ECD7.D	12/30/2022	
LCS Dup	BKL0488-BSD1	12312206ECD7.D	12/30/2022	
Matrix Spike	BKL0488-MS1	12312208ECD7.D	12/30/2022	
Matrix Spike Dup	BKL0488-MSD1	12312209ECD7.D	12/30/2022	
LDW22-SC758H	22L0199-67	12312216ECD7.D	12/30/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0307

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/30/2022 3:03:46PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0199-61	B	LDW22-SC758B	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-62	B	LDW22-SC758C	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-63	B	LDW22-SC758D	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-64	B	LDW22-SC758E	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-65	B	LDW22-SC758F	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-66	B	LDW22-SC758G	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-67	B	LDW22-SC758H	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-68	B	LDW22-SC758I	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-69	B	LDW22-SC758J	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
22L0199-70	B	LDW22-SC758K	B 01	2.5	2.5	8082A PCB Solid 4	12/30/2022	ZH	
BKL0488-BLK1	-	Blank	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-BS1	-	LCS	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-BSD1	-	LCS Dup	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-MS1	-	Matrix Spike	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/30/2022	ZH	
BKL0488-SRM1	-	Reference	-	2.5	2.5	-	12/30/2022	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0401-BLK1	File ID:	12272241ECD7.D
Sampled:	N/A	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 06:43
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0401	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	10.9	136	40 - 126	*
Tetrachlorometaxylene	8.0000	8.36	105	44 - 120	
Decachlorobiphenyl [2C]	8.0000	10.6	132	40 - 126	*
Tetrachlorometaxylene [2C]	8.0000	7.96	99.4	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272241ECD7.D
Data file 2: /221227.b/221227.b/12272241ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0401-BLK1
Client ID:
Injection Date: 28-DEC-2022 06:43
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	288437	5.708	-0.001	176326	41.8	39.8	5.0	Tetrachloro-m-xylene
13.902	-0.001	458373	14.129	0.001	353627	54.3	52.8	2.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	486899	8.8
Hexabromobiphenyl	798898	921497	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	323402	29.8
Hexabromobiphenyl	362541	471822	30.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 58253 Col1 Total PCB = 0.0 ppm*

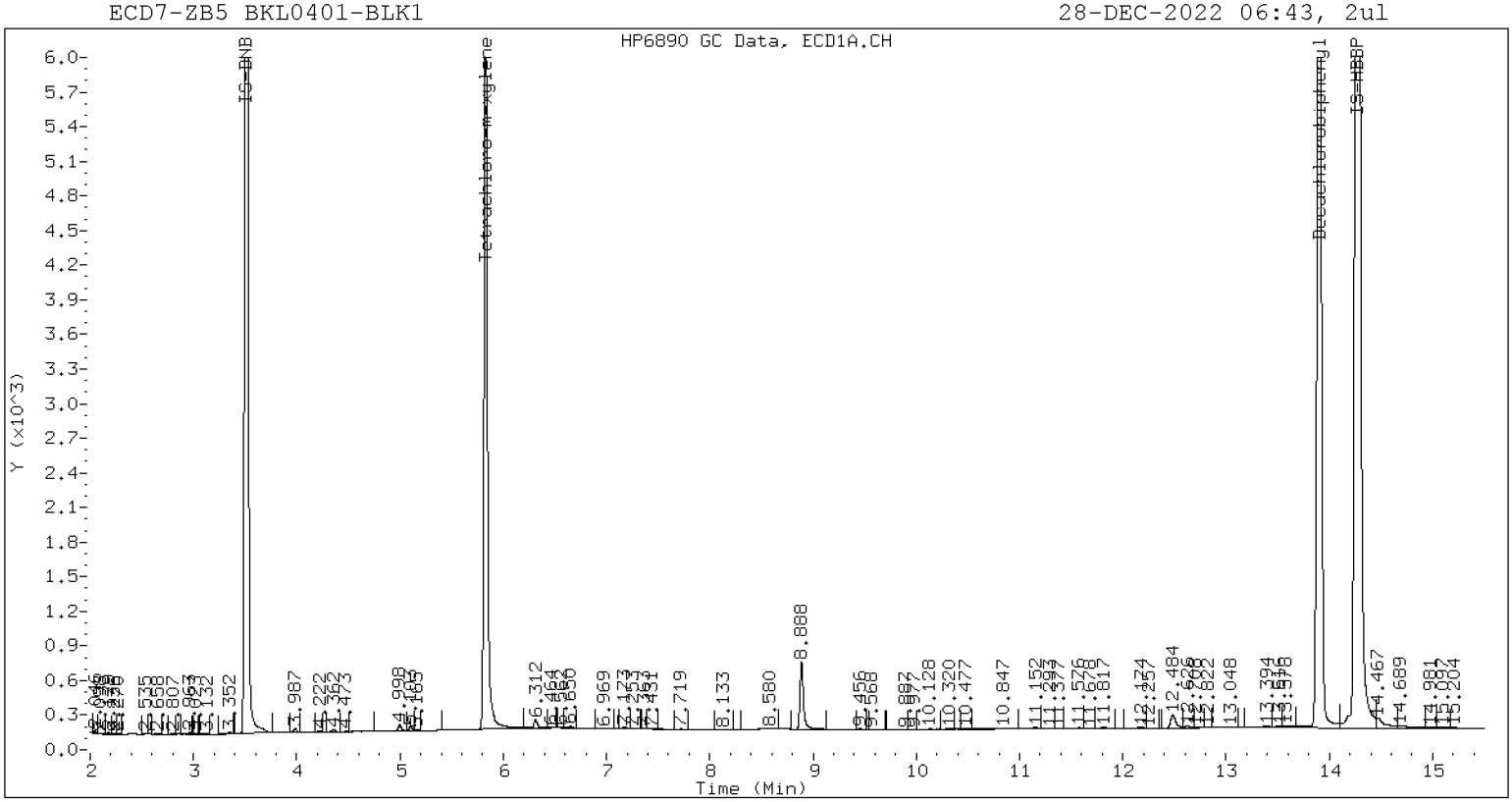
Total PCB Area Col2 (5.809 - 14.028) = 20646 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

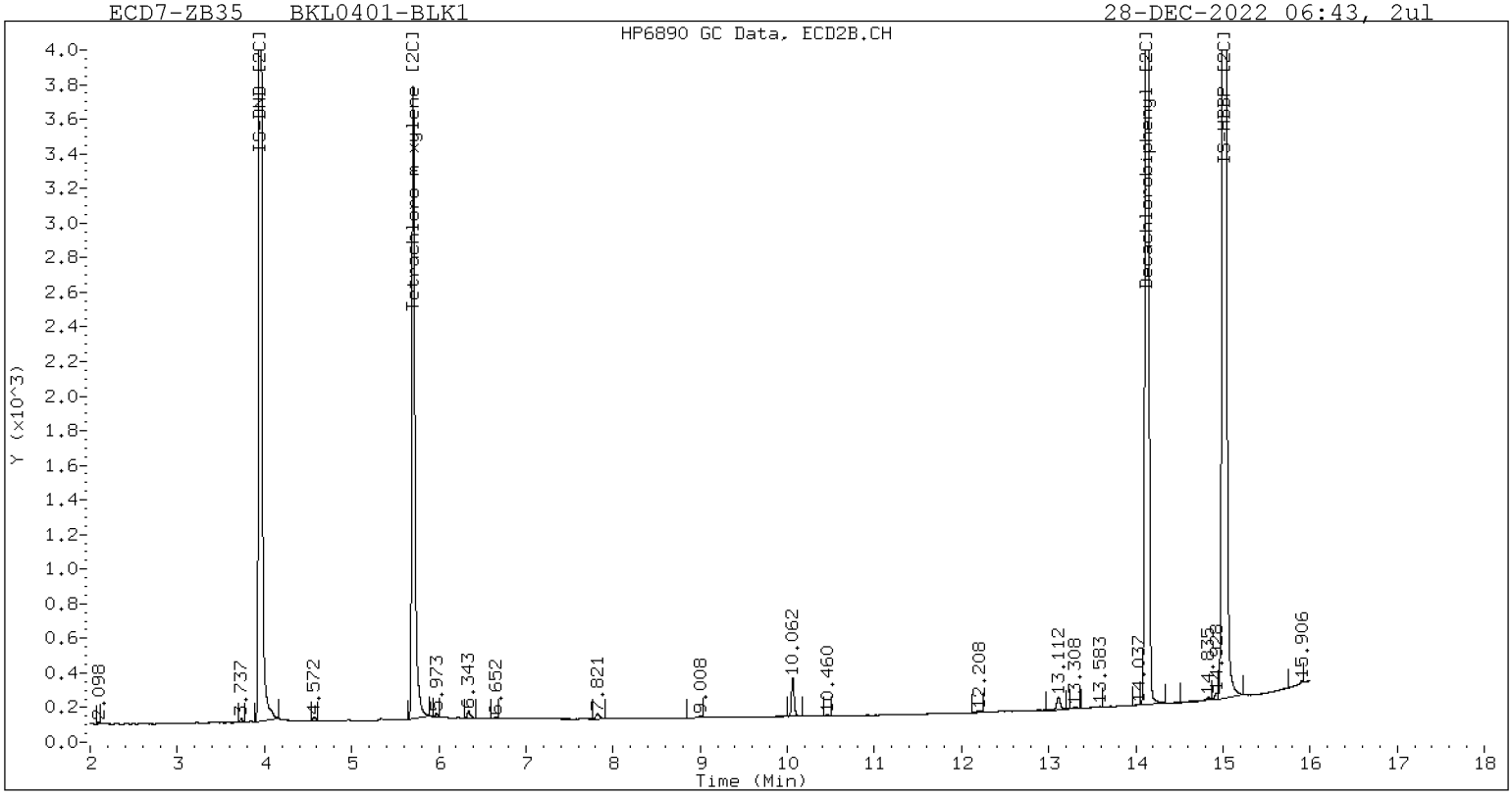
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0401-BLK1 28-DEC-2022 06:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0401-BLK1 28-DEC-2022 06:43, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0402-BLK1	File ID:	12302210ECD7.D
Sampled:	N/A	Prepared:	12/19/22 12:08	Analyzed:	12/30/22 14:30
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0402	Sequence:	SLA0035	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	9.47	118	40 - 126	
Tetrachlorometaxylene	8.0000	7.59	94.9	44 - 120	
Decachlorobiphenyl [2C]	8.0000	9.26	116	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	7.32	91.5	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302210ECD7.D
Data file 2: /221230.b/221230.b/12302210ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0402-BLK1
Client ID:
Injection Date: 30-DEC-2022 14:30
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.004	260518	5.706	-0.003	161993	37.9	36.6	3.6	Tetrachloro-m-xylene
13.901	-0.001	494637	14.128	-0.000	371367	47.3	46.3	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484506	8.2
Hexabromobiphenyl	798898	1139609	42.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	322920	29.6
Hexabromobiphenyl	362541	565127	55.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.802) = 77974 Col1 Total PCB = 0.0 ppm*

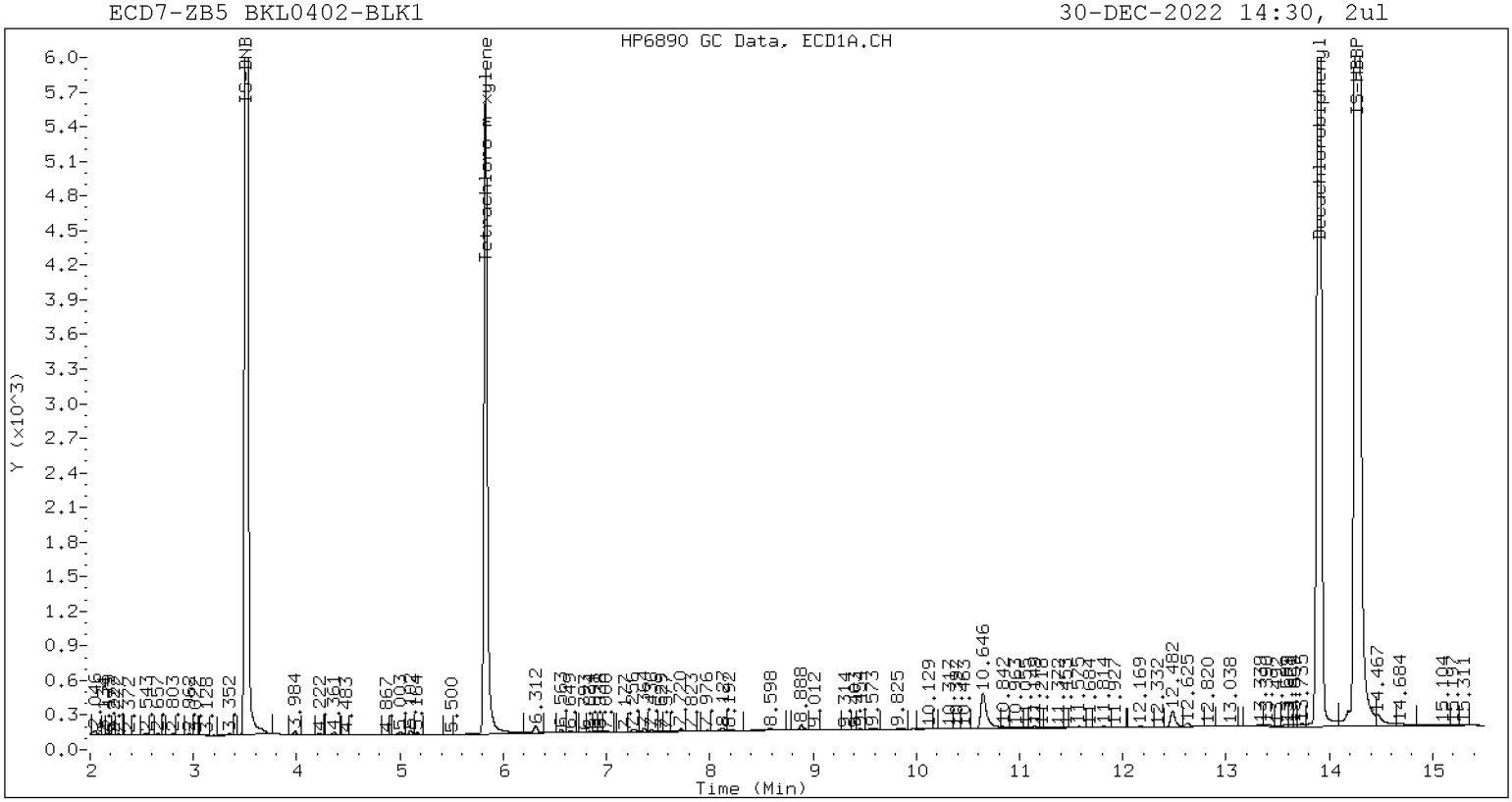
Total PCB Area Col2 (5.810 - 14.028) = 52351 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

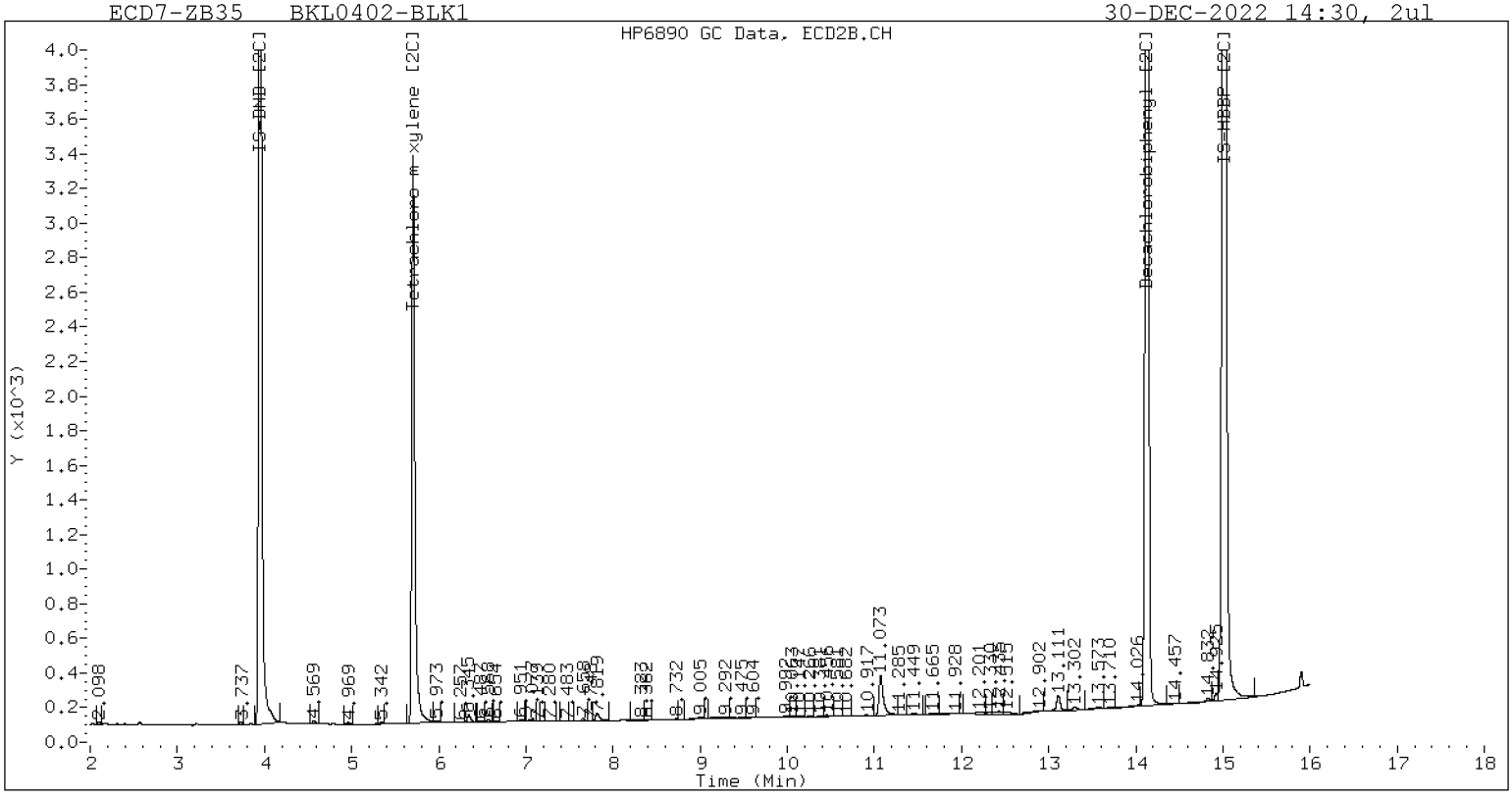
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0402-BLK1 30-DEC-2022 14:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0402-BLK1 30-DEC-2022 14:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0404-BLK1	File ID:	12272209ECD7.D
Sampled:	N/A	Prepared:	12/19/22 13:40	Analyzed:	12/27/22 19:28
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0404	Sequence:	SKL0377	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	9.07	113	40 - 126	
Tetrachlorometaxylene	8.0000	7.42	92.7	44 - 120	
Decachlorobiphenyl [2C]	8.0000	9.06	113	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	7.29	91.2	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272209ECD7.D
Data file 2: /221227.b/221227.b/12272209ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0404-BLK1
Client ID:
Injection Date: 27-DEC-2022 19:28
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	247236	5.708	-0.001	151582	37.1	36.5	1.7	Tetrachloro-m-xylene
13.901	-0.002	380323	14.128	-0.000	288495	45.4	45.3	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470337	5.1
Hexabromobiphenyl	798898	914378	14.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	303203	21.7
Hexabromobiphenyl	362541	448612	23.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.803) = 66836 Col1 Total PCB = 0.0 ppm*

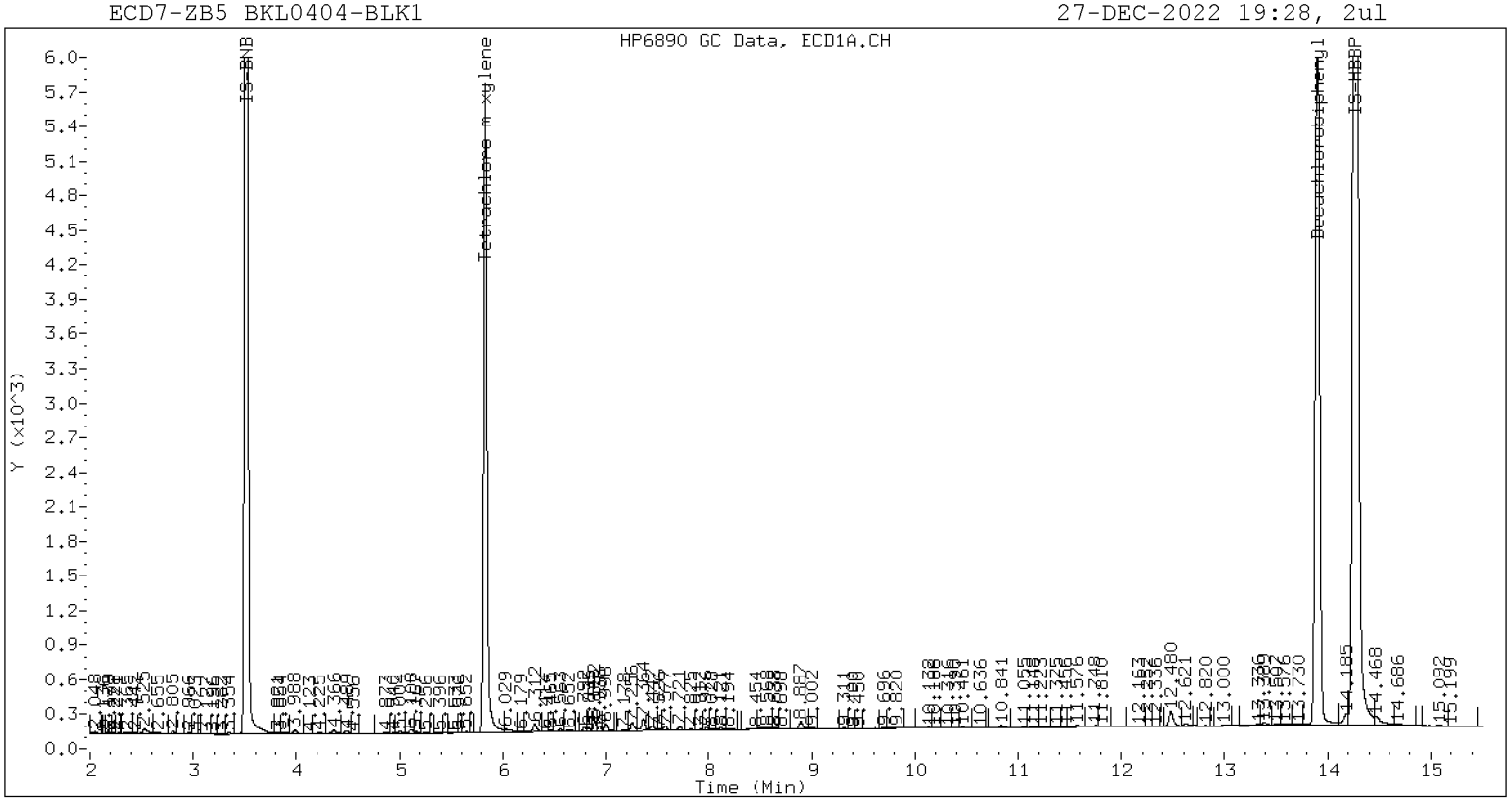
Total PCB Area Col2 (5.809 - 14.028) = 39735 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

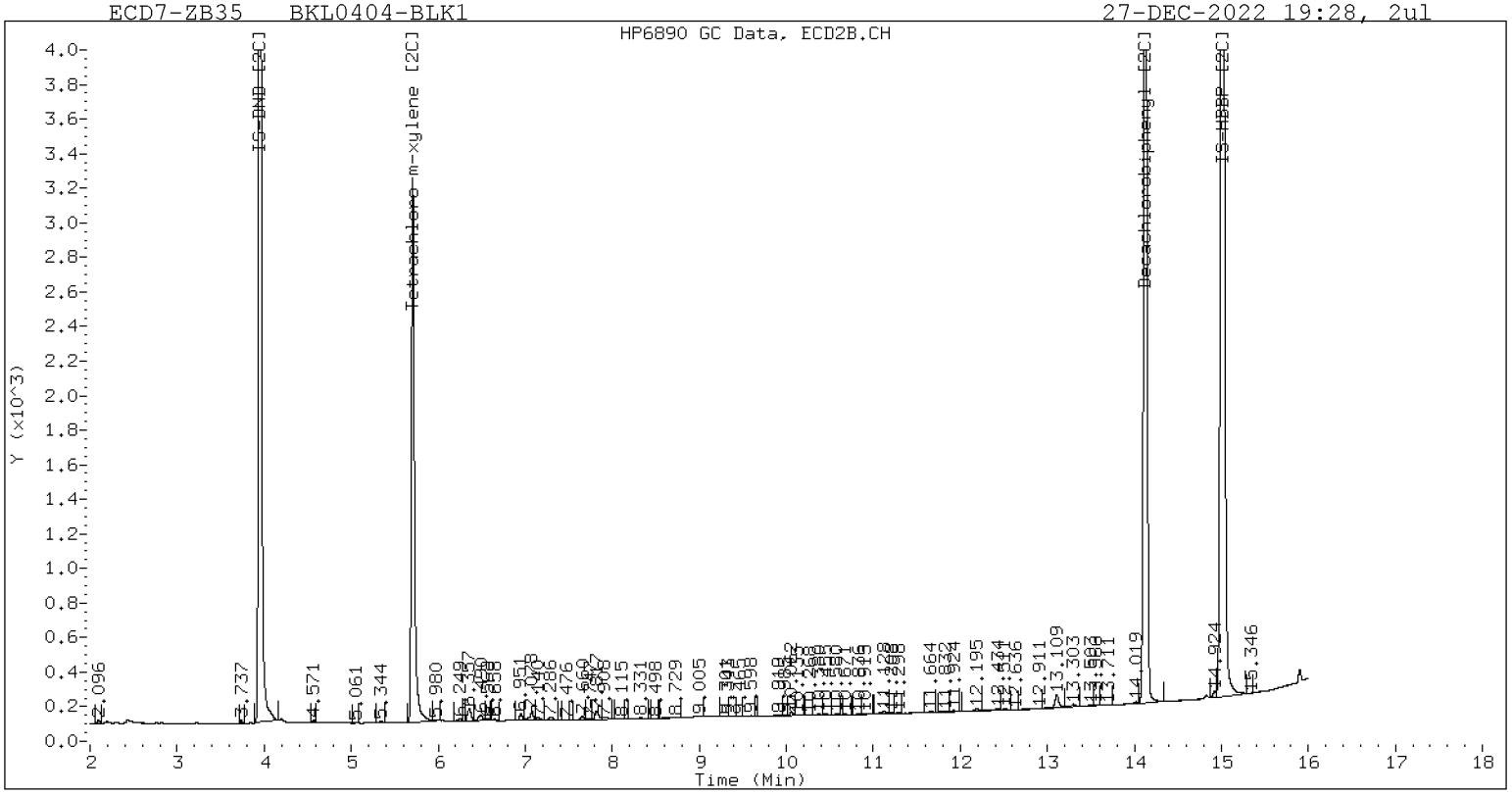
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0404-BLK1 27-DEC-2022 19:28, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0404-BLK1 27-DEC-2022 19:28, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0488-BLK1	File ID:	12312204ECD7.D
Sampled:	N/A	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 11:13
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0488	Sequence:	SLA0071	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	10.1	126	40 - 126	
Tetrachlorometaxylene	8.0000	8.04	100	44 - 120	
Decachlorobiphenyl [2C]	8.0000	9.94	124	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	7.64	95.5	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312204ECD7.D
Data file 2: /221231.b/221231.b/12312204ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0488-BLK1
Client ID:
Injection Date: 31-DEC-2022 11:13
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	274096	5.707	-0.003	169232	40.2	38.2	5.1	Tetrachloro-m-xylene
13.902	0.001	441654	14.128	-0.002	346699	50.4	49.7	1.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	481329	7.5
Hexabromobiphenyl	798898	956070	19.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	323161	29.7
Hexabromobiphenyl	362541	491270	35.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.801) = 50626 Col1 Total PCB = 0.0 ppm*

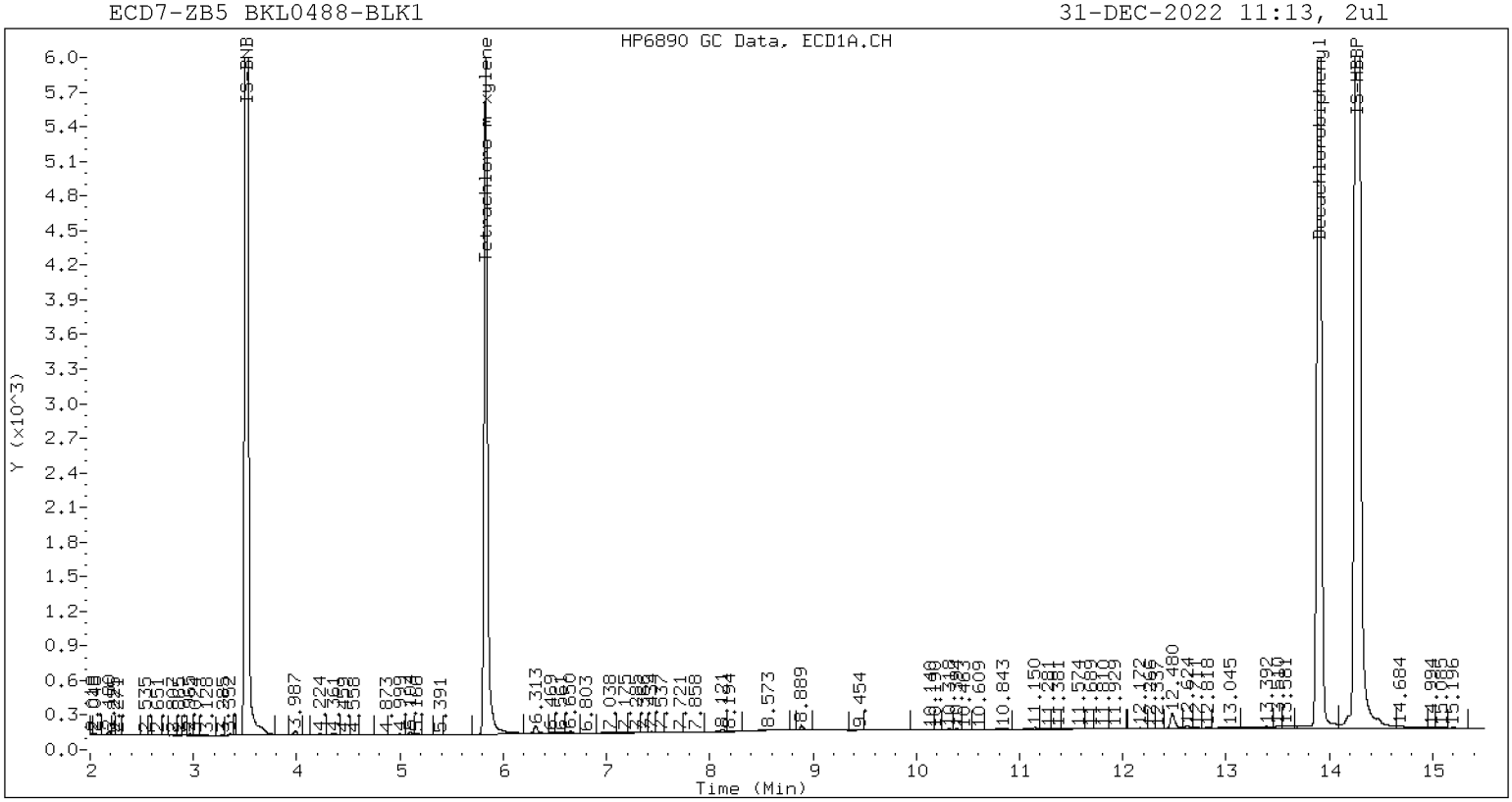
Total PCB Area Col2 (5.810 - 14.030) = 13797 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

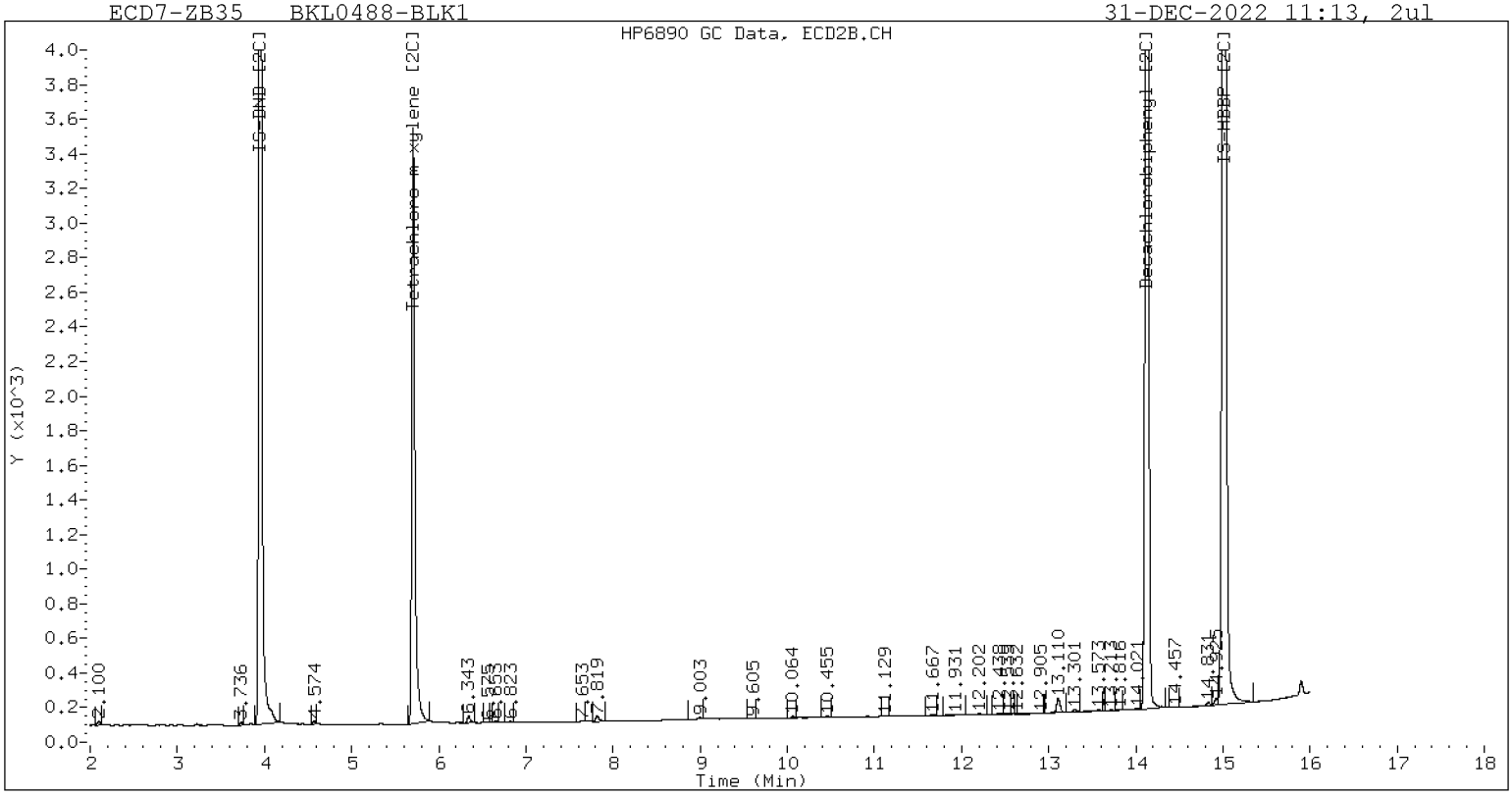
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0488-BLK1 31-DEC-2022 11:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0488-BLK1 31-DEC-2022 11:13, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/28/22 07:05
Batch:	BKL0401	Laboratory ID:	BKL0401-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	85.6		84.9	56 - 120
Aroclor 1260 [2C]	101	98.0		97.2	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	85.2		84.5	0.476	30	56 - 120
Aroclor 1260 [2C]	101	98.4		97.6	0.440	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272242ECD7.D
Data file 2: /221227.b/221227.b/12272242ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0401-BS1
Client ID:
Injection Date: 28-DEC-2022 07:05
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	266626	5.709	0.000	165048	39.1	37.8	3.5	Tetrachloro-m-xylene
13.902	-0.001	409957	14.129	0.001	324852	46.4	47.9	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480656	7.4
Hexabromobiphenyl	798898	963889	20.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	318480	27.9
Hexabromobiphenyl	362541	478140	31.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	-0.001	67950	423.8	1	7.271	-0.001	66585	408.9
Aroclor-1016	2	7.669	-0.003	226074	436.7	2	7.866	-0.005	150146	427.5
Aroclor-1016	3	7.805	-0.004	92674	395.1	3	8.066	-0.006	59261	392.9
Aroclor-1016	4	8.419	-0.004	68149	455.7	4	8.236	-0.006	36247	457.1
Total Col1Ave (4 peaks):					427.8	Total Col2Ave (4 peaks):				421.6 RPD = 1
Corrected Ave (3 peaks):					418.5	Corrected Ave (3 peaks):				409.8 RPD = 2
Aroclor-1221	1	4.758	-0.002	511	12.9	1	4.977	-0.010	834	31.0
Aroclor-1221	2	6.152	-0.006	9196	131.4	2	6.318	-0.003	6959	135.8
Aroclor-1221	3	6.403	-0.006	45545	282.0	3	6.641	-0.004	29885	346.7
Total Col1Ave (3 peaks):					142.1	Total Col2Ave (3 peaks):				171.2 RPD = 19
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	511	21.4	1	4.977	-0.012	834	53.9
Aroclor-1232	2	6.152	-0.007	9196	182.1	2	7.271	-0.006	66585	841.9
Aroclor-1232	3	7.669	-0.015	226074	996.6	3	7.866	-0.011	150146	971.1
Aroclor-1232	4	8.593	-0.013	88554	920.1	4	8.726	-0.008	45761	1091.6
Total Col1Ave (4 peaks):					530.0	Total Col2Ave (4 peaks):				739.6 RPD = 33
Corrected Ave (3 peaks):					374.5	Corrected Ave (3 peaks):				622.3 RPD = 50*
Aroclor-1242	1	7.287	-0.007	67950	498.8	1	7.271	0.000	66585	494.0
Aroclor-1242	2	7.669	-0.016	226074	522.6	2	7.866	-0.004	150146	524.7
Aroclor-1242	3	8.419	-0.011	68149	547.6	3	9.165	-0.005	8141	88.2
Aroclor-1242	4	9.007	-0.024	79875	309.1	4	9.592	0.002	4553	41.0
Total Col1Ave (4 peaks):					469.5	Total Col2Ave (4 peaks):				287.0 RPD = 48*
Corrected Ave (3 peaks):					443.5	Corrected Ave (3 peaks):				207.7 RPD = 72*
Aroclor-1248	1	8.419	-0.009	68149	329.8	1	8.319	-0.002	44871	344.9
Aroclor-1248	2	8.593	-0.012	88554	335.6	2	8.726	-0.001	45761	334.4
Aroclor-1248	3	9.007	-0.016	79875	168.3	3	9.165	-0.007	8141	48.9
Aroclor-1248	4	9.312	0.001	73459	315.9	4	9.592	-0.002	4553	23.3
Total Col1Ave (4 peaks):					287.4	Total Col2Ave (4 peaks):				187.9 RPD = 42*
Corrected Ave (3 peaks):					271.3	Corrected Ave (3 peaks):				135.5 RPD = 67*
Aroclor-1254	1	9.312	-0.009	73459	173.6	1	9.459	-0.002	39117	190.5
Aroclor-1254	2	---			0.0	2	9.979	-0.000	8553	51.8
Aroclor-1254	3	9.679	-0.016	13153	49.2	3	10.156	0.026	89805	253.1
Aroclor-1254	4	9.816	-0.015	42320	81.2	4	10.381	0.002	115996	315.6
Aroclor-1254	5	10.132	-0.058	197061	551.8	5	10.575	-0.000	156007	880.2
Total Col1Ave (4 peaks):					213.9	Total Col2Ave (5 peaks):				338.2 RPD = 45*
Corrected Ave (3 peaks):					101.3	Corrected Ave (4 peaks):				202.8 RPD = 67*
Aroclor-1260	1	11.054	-0.001	163767	466.8	1	11.662	-0.001	121943	483.2
Aroclor-1260	2	11.371	-0.001	172499	475.4	2	11.925	-0.001	300669	474.7
Aroclor-1260	3	11.743	-0.000	448475	470.4	3	12.444	-0.000	85003	504.0
Aroclor-1260	4	12.145	-0.004	238540	491.3	4	12.509	0.000	210108	497.7
Aroclor-1260	5	12.254	-0.002	95565	480.8	NS	---			----
Total Col1Ave (5 peaks):					476.9	Total Col2Ave (4 peaks):				489.9 RPD = 3
Corrected Ave (4 peaks):					473.3	Corrected Ave (3 peaks):				485.2 RPD = 2
Aroclor-1262	1	10.835	-0.014	326645	1013.4	1	11.209	-0.008	111619	307.0
Aroclor-1262	2	12.254	-0.009	95565	190.7	2	11.662	-0.008	121943	387.3
Aroclor-1262	3	12.328	-0.008	115168	215.2	3	12.444	-0.007	85003	244.7
Aroclor-1262	4	12.996	-0.009	107513	250.3	4	12.509	-0.010	210108	386.2
Total Col1Ave (4 peaks):					417.4	Total Col2Ave (4 peaks):				331.3 RPD = 23
Corrected Ave (3 peaks):					218.7	Corrected Ave (3 peaks):				312.6 RPD = 35
Aroclor-1268	1	12.254	-0.009	95565	70.9	1	12.444	-0.005	85003	94.2
Aroclor-1268	2	12.328	-0.007	115168	87.3	2	12.509	-0.008	210108	227.0
Aroclor-1268	3	12.733	0.017	51214	47.4	3	12.902	-0.008	3798	11.1
Aroclor-1268	4	13.498	-0.008	33017	10.0	4	13.717	-0.009	23360	9.5
Total Col1Ave (4 peaks):					53.9	Total Col2Ave (4 peaks):				85.4 RPD = 45*

Corrected Ave (3 peaks): 42.7 Corrected Ave (3 peaks): 38.2 RPD = 11

Total PCB Area Col1 (5.931 - 13.803) = 4525793 Col1 Total PCB = 1.0 ppm*

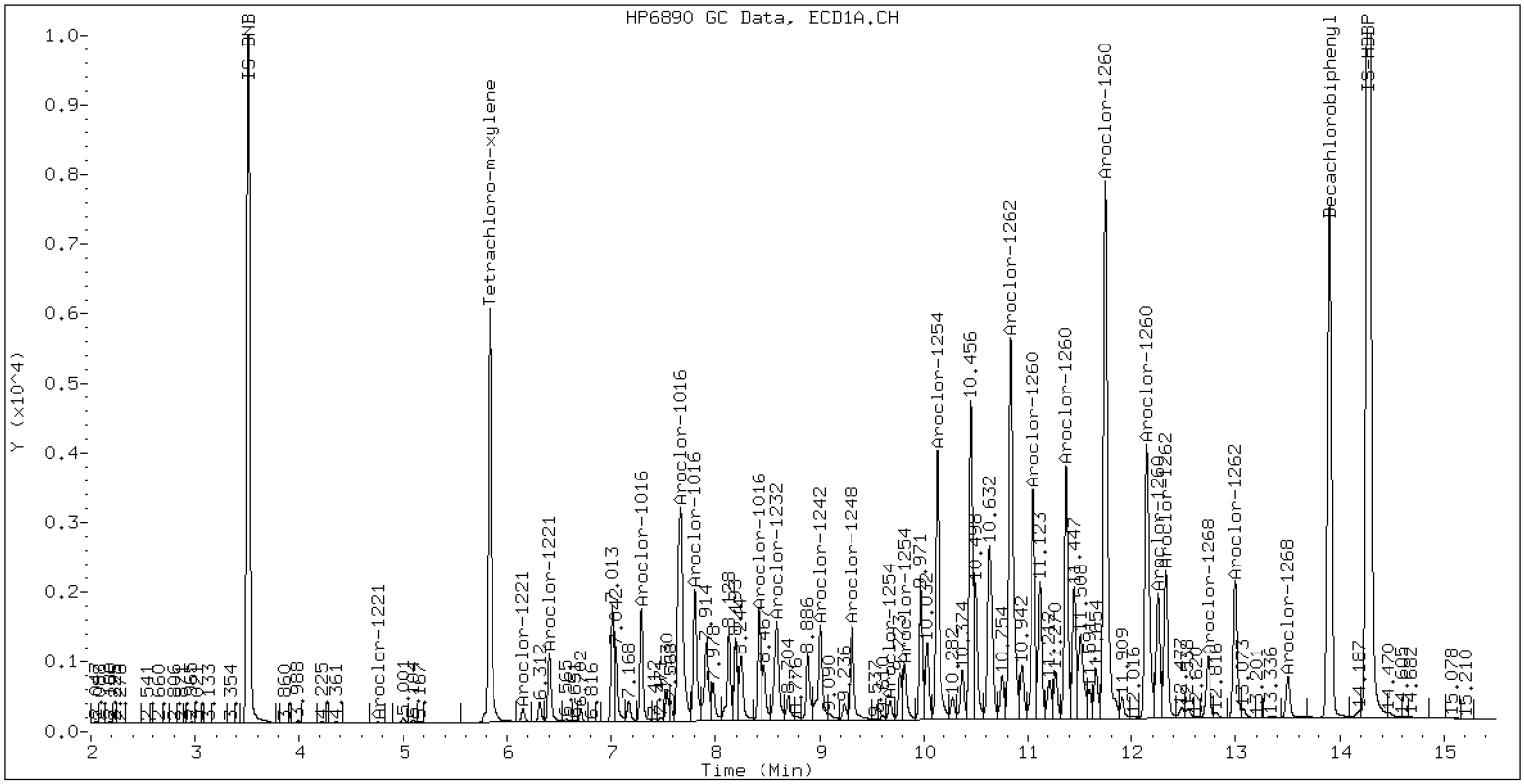
Total PCB Area Col2 (5.809 - 14.028) = 2854528 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

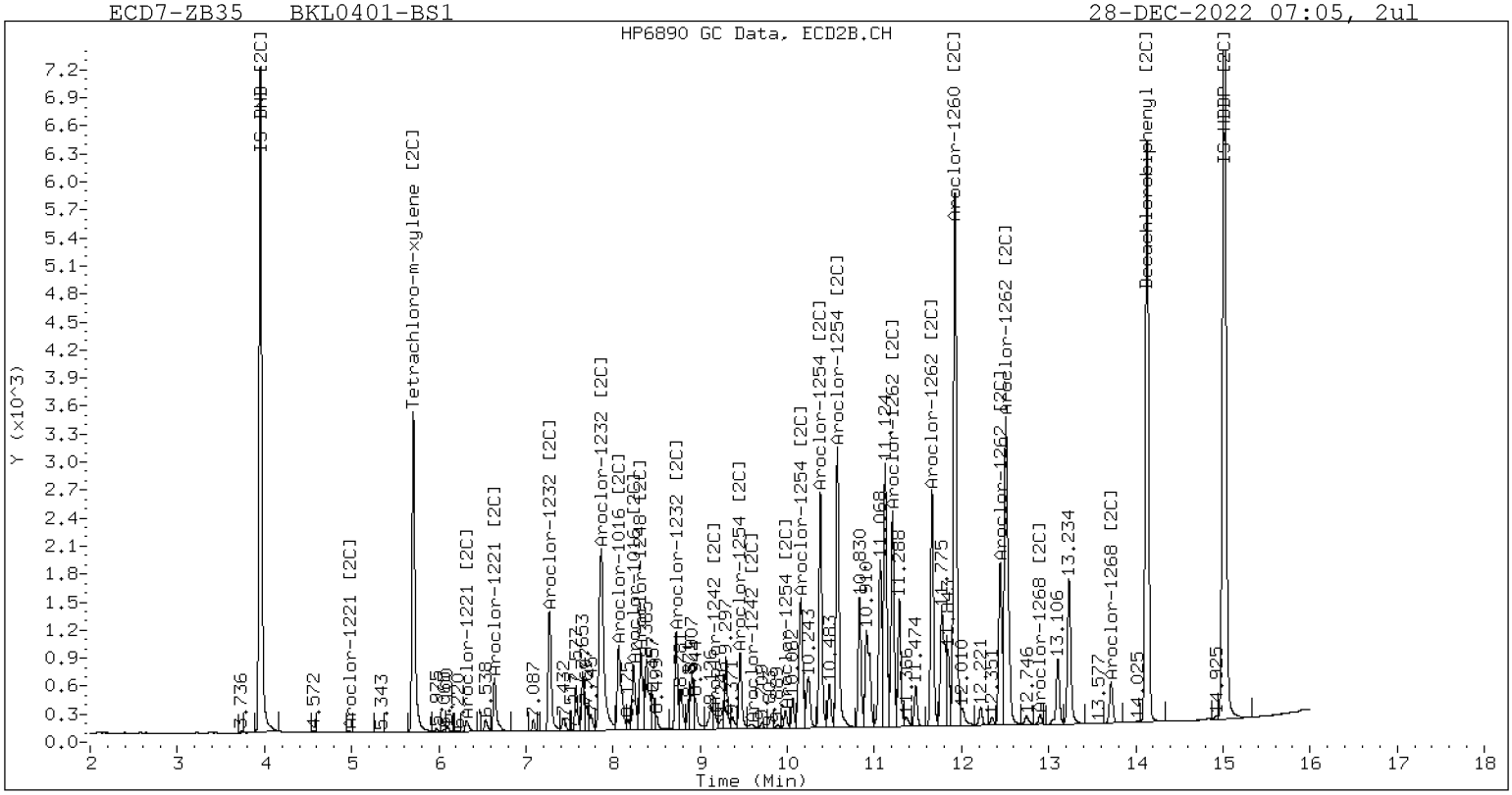
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0401-BS1 28-DEC-2022 07:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0401-BS1 28-DEC-2022 07:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272243ECD7.D
Data file 2: /221227.b/221227.b/12272243ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0401-BSD1
Client ID:
Injection Date: 28-DEC-2022 07:26
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	250559	5.709	-0.000	153547	36.1	34.4	4.6	Tetrachloro-m-xylene
13.902	-0.002	391884	14.128	-0.000	312188	43.0	44.9	4.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	490305	9.5
Hexabromobiphenyl	798898	994239	24.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	325234	30.6
Hexabromobiphenyl	362541	489731	35.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	-0.002	69229	423.3	1	7.271	-0.001	66606	400.5
Aroclor-1016	2	7.668	-0.004	229190	434.0	2	7.865	-0.006	149899	418.0
Aroclor-1016	3	7.805	-0.004	92254	385.5	3	8.064	-0.007	57423	372.8
Aroclor-1016	4	8.418	-0.004	70222	460.3	4	8.235	-0.007	35835	442.5
Total Col1Ave (4 peaks):					425.8	Total Col2Ave (4 peaks):				408.5 RPD = 4
Corrected Ave (3 peaks):					414.3	Corrected Ave (3 peaks):				397.1 RPD = 4
Aroclor-1221	1	4.758	-0.002	552	13.6	1	4.987	-0.000	268	9.8
Aroclor-1221	2	6.152	-0.006	8151	114.2	2	6.319	-0.003	6951	132.9
Aroclor-1221	3	6.404	-0.005	45106	273.8	3	6.641	-0.005	30267	343.8
Total Col1Ave (3 peaks):					133.9	Total Col2Ave (3 peaks):				162.1 RPD = 19
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	552	22.6	1	4.987	-0.002	268	16.9
Aroclor-1232	2	6.152	-0.007	8151	158.2	2	7.271	-0.006	66606	824.7
Aroclor-1232	3	7.668	-0.016	229190	990.5	3	7.865	-0.012	149899	949.4
Aroclor-1232	4	8.592	-0.014	90335	920.1	4	8.725	-0.009	46191	1079.0
Total Col1Ave (4 peaks):					522.9	Total Col2Ave (4 peaks):				717.5 RPD = 31
Corrected Ave (3 peaks):					367.0	Corrected Ave (3 peaks):				597.0 RPD = 48*
Aroclor-1242	1	7.287	-0.008	69229	498.1	1	7.271	-0.000	66606	483.9
Aroclor-1242	2	7.668	-0.017	229190	519.4	2	7.865	-0.005	149899	513.0
Aroclor-1242	3	8.418	-0.011	70222	553.1	3	9.166	-0.004	8368	88.8
Aroclor-1242	4	9.007	-0.025	81356	308.6	4	9.591	0.001	4474	39.5
Total Col1Ave (4 peaks):					469.8	Total Col2Ave (4 peaks):				281.3 RPD = 50*
Corrected Ave (3 peaks):					442.1	Corrected Ave (3 peaks):				204.0 RPD = 74*
Aroclor-1248	1	8.418	-0.009	70222	333.1	1	8.319	-0.002	44848	337.5
Aroclor-1248	2	8.592	-0.013	90335	335.6	2	8.725	-0.002	46191	330.5
Aroclor-1248	3	9.007	-0.016	81356	168.0	3	9.166	-0.007	8368	49.2
Aroclor-1248	4	9.311	-0.001	74456	313.9	4	9.591	-0.003	4474	22.4
Total Col1Ave (4 peaks):					287.7	Total Col2Ave (4 peaks):				184.9 RPD = 43*
Corrected Ave (3 peaks):					271.7	Corrected Ave (3 peaks):				134.1 RPD = 68*
Aroclor-1254	1	9.311	-0.010	74456	172.5	1	9.459	-0.002	39699	189.3
Aroclor-1254	2	---			0.0	2	9.979	-0.000	8907	52.8
Aroclor-1254	3	9.679	-0.016	13299	48.8	3	10.155	0.025	91198	251.7
Aroclor-1254	4	9.816	-0.015	42721	80.4	4	10.380	0.001	118550	315.9
Aroclor-1254	5	10.131	-0.059	201793	553.9	5	10.575	-0.001	159619	881.8
Total Col1Ave (4 peaks):					213.9	Total Col2Ave (5 peaks):				338.3 RPD = 45*
Corrected Ave (3 peaks):					100.5	Corrected Ave (4 peaks):				202.4 RPD = 67*
Aroclor-1260	1	11.055	-0.001	169123	467.3	1	11.662	-0.001	125270	484.6
Aroclor-1260	2	11.371	-0.001	179012	478.2	2	11.926	-0.000	309908	477.8
Aroclor-1260	3	11.743	-0.000	463906	471.7	3	12.445	0.000	87787	508.2
Aroclor-1260	4	12.147	-0.002	246749	492.7	4	12.509	0.000	215208	497.7
Aroclor-1260	5	12.254	-0.001	98345	479.7	NS	---			----
Total Col1Ave (5 peaks):					477.9	Total Col2Ave (4 peaks):				492.1 RPD = 3
Corrected Ave (4 peaks):					474.2	Corrected Ave (3 peaks):				486.7 RPD = 3
Aroclor-1262	1	10.835	-0.013	337549	1015.2	1	11.209	-0.009	114711	308.1
Aroclor-1262	2	12.254	-0.008	98345	190.3	2	11.662	-0.008	125270	388.4
Aroclor-1262	3	12.328	-0.009	119333	216.2	3	12.445	-0.007	87787	246.8
Aroclor-1262	4	12.997	-0.008	111179	250.9	4	12.509	-0.010	215208	386.2
Total Col1Ave (4 peaks):					418.1	Total Col2Ave (4 peaks):				332.4 RPD = 23
Corrected Ave (3 peaks):					219.1	Corrected Ave (3 peaks):				313.7 RPD = 35
Aroclor-1268	1	12.254	-0.008	98345	70.7	1	12.445	-0.005	87787	95.0
Aroclor-1268	2	12.328	-0.008	119333	87.7	2	12.509	-0.008	215208	227.0
Aroclor-1268	3	12.733	0.017	52919	47.4	3	12.903	-0.007	3986	11.3
Aroclor-1268	4	13.497	-0.008	32397	9.5	4	13.716	-0.011	23935	9.5
Total Col1Ave (4 peaks):					53.8	Total Col2Ave (4 peaks):				85.7 RPD = 46*

Corrected Ave (3 peaks): 42.6 Corrected Ave (3 peaks): 38.6 RPD = 10

Total PCB Area Col1 (5.931 - 13.803) = 4600288 Col1 Total PCB = 1.0 ppm*

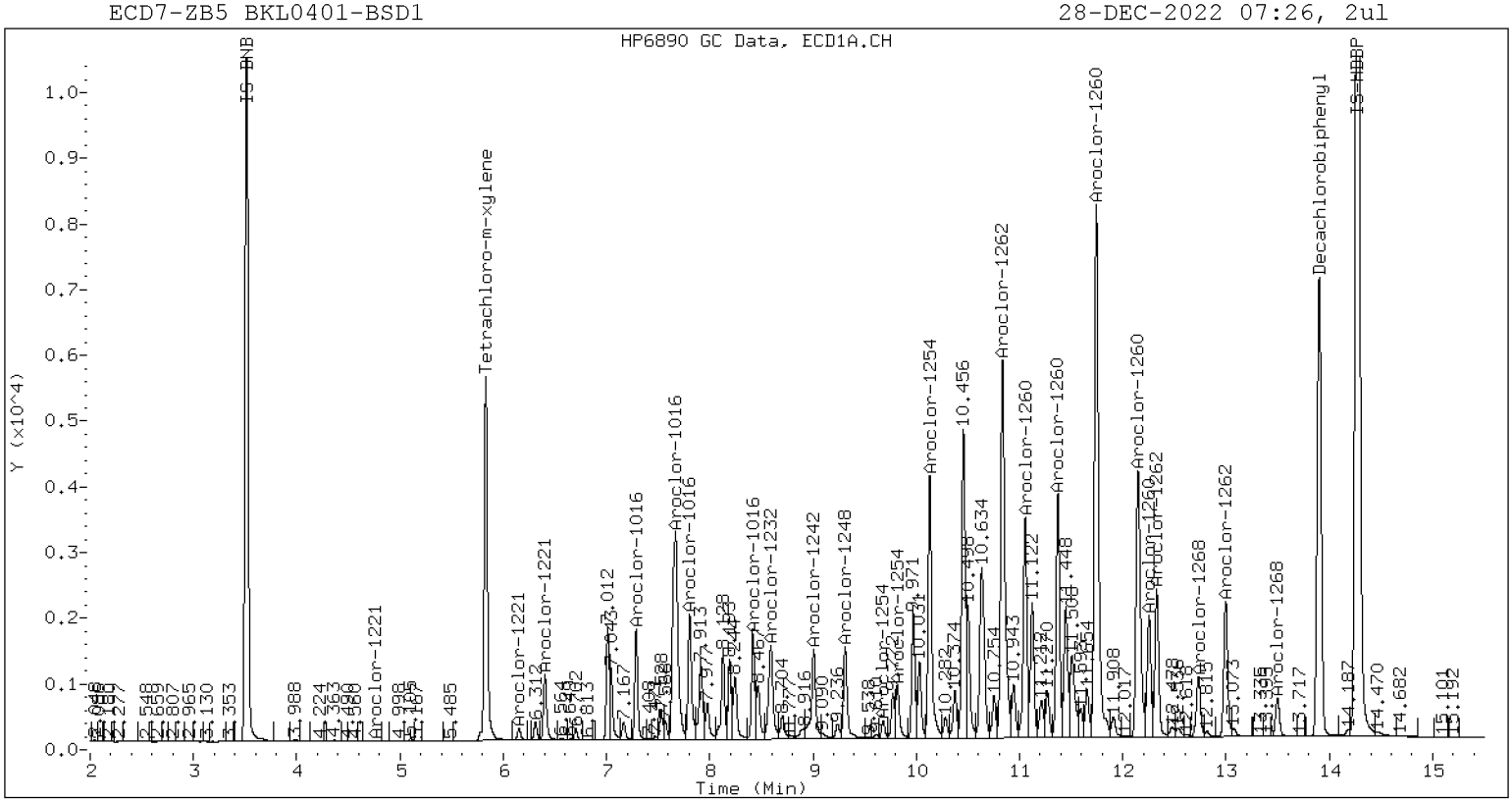
Total PCB Area Col2 (5.809 - 14.028) = 2890964 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

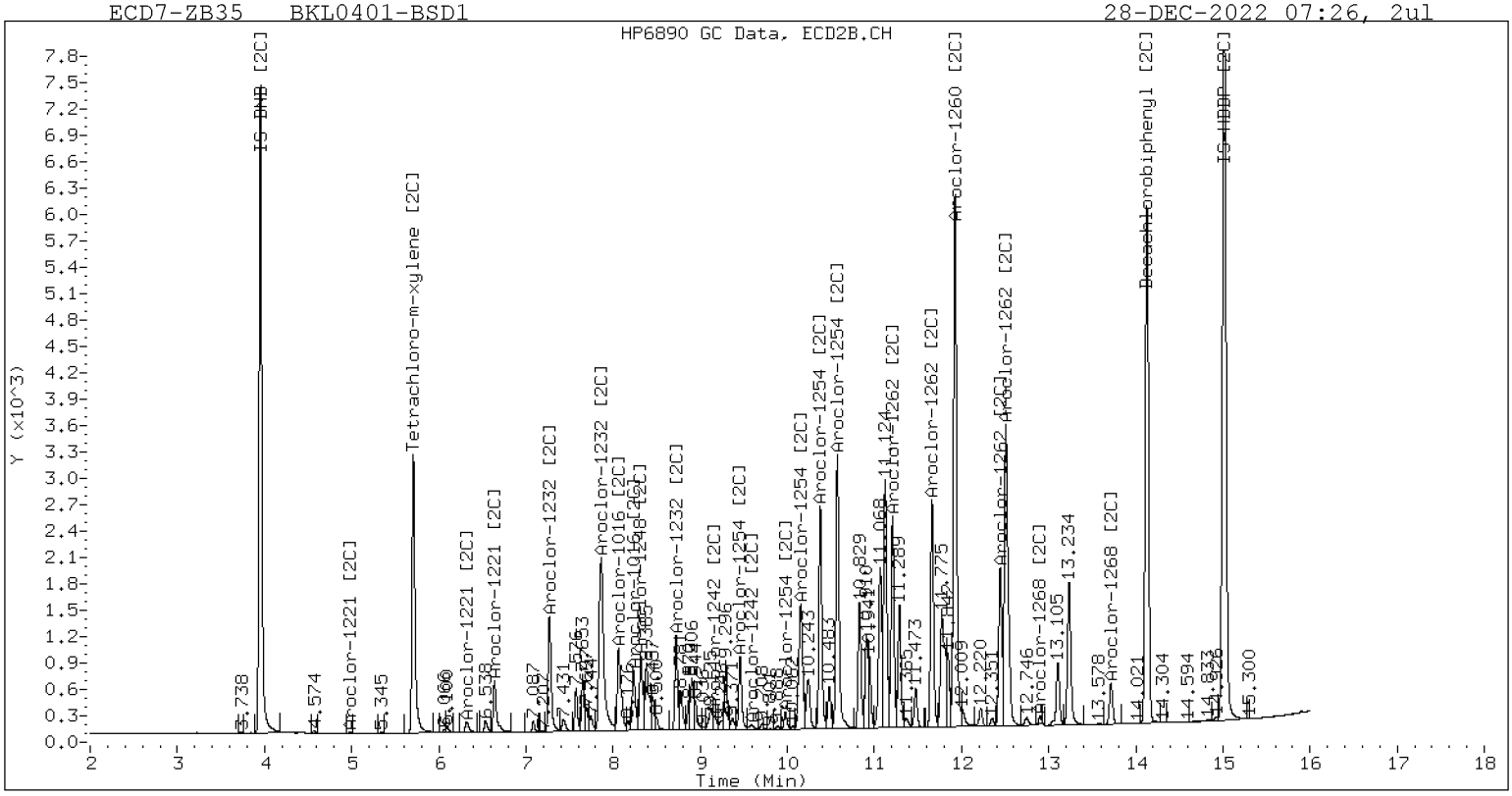
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0401-BSD1 28-DEC-2022 07:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0401-BSD1 28-DEC-2022 07:26, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/30/22 14:51
Batch:	BKL0402	Laboratory ID:	BKL0402-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	93.6		92.9	56 - 120
Aroclor 1260 [2C]	101	94.4		93.6	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	92.5		91.7	1.27	30	56 - 120
Aroclor 1260 [2C]	101	93.8		93.1	0.598	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302211ECD7.D
Data file 2: /221230.b/221230.b/12302211ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0402-BS1
Client ID:
Injection Date: 30-DEC-2022 14:51
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.004	279637	5.706	-0.003	171297	38.8	36.7	5.5	Tetrachloro-m-xylene
13.902	-0.000	515003	14.127	-0.001	396774	44.6	47.0	5.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	509048	13.7
Hexabromobiphenyl	798898	1259283	57.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	340559	36.7
Hexabromobiphenyl	362541	594913	64.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	ZB5 Col Amount	Peak#	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Area	ZB35 Col Amount
Aroclor-1016	1	7.285	-0.005	77721	457.7	1	7.269	-0.003	74459	427.6
Aroclor-1016	2	7.667	-0.010	262178	478.2	2	7.864	-0.008	172067	458.2
Aroclor-1016	3	7.804	-0.009	108235	435.7	3	8.063	-0.008	69723	432.3
Aroclor-1016	4	8.417	-0.007	79408	501.4	4	8.233	-0.009	41418	488.4
	Total Col1Ave (4 peaks):				468.2	Total Col2Ave (4 peaks):				451.6 RPD = 4
	Corrected Ave (3 peaks):				457.2	Corrected Ave (3 peaks):				439.4 RPD = 4
Aroclor-1221	1	4.755	-0.005	493	11.7	1	4.983	-0.004	314	10.9
Aroclor-1221	2	6.150	-0.008	9032	121.8	2	6.317	-0.005	7571	138.2
Aroclor-1221	3	6.401	-0.008	48568	284.0	3	6.639	-0.007	32449	352.0
	Total Col1Ave (3 peaks):				139.2	Total Col2Ave (3 peaks):				167.0 RPD = 18
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.755	-0.006	493	19.5	1	4.983	-0.006	314	19.0
Aroclor-1232	2	6.150	-0.009	9032	168.8	2	7.269	-0.008	74459	880.4
Aroclor-1232	3	7.667	-0.016	262178	1091.3	3	7.864	-0.013	172067	1040.7
Aroclor-1232	4	8.590	-0.015	103063	1011.1	4	8.723	-0.011	53086	1184.2
	Total Col1Ave (4 peaks):				572.7	Total Col2Ave (4 peaks):				781.1 RPD = 31
	Corrected Ave (3 peaks):				399.8	Corrected Ave (3 peaks):				646.7 RPD = 47*
Aroclor-1242	1	7.285	-0.004	77721	538.7	1	7.269	-0.003	74459	516.6
Aroclor-1242	2	7.667	-0.009	262178	572.3	2	7.864	-0.008	172067	562.4
Aroclor-1242	3	8.417	-0.004	79408	602.4	3	9.164	-0.006	9572	97.0
Aroclor-1242	4	9.006	-0.015	103872	379.5	4	9.588	-0.001	4196	35.4
	Total Col1Ave (4 peaks):				523.2	Total Col2Ave (4 peaks):				302.8 RPD = 53*
	Corrected Ave (3 peaks):				496.8	Corrected Ave (3 peaks):				216.3 RPD = 79*
Aroclor-1248	1	8.417	-0.007	79408	362.8	1	8.317	-0.005	51454	369.8
Aroclor-1248	2	8.590	-0.009	103063	368.8	2	8.723	-0.005	53086	362.8
Aroclor-1248	3	9.006	-0.012	103872	206.6	3	9.164	-0.010	9572	53.8
Aroclor-1248	4	9.310	0.000	85412	346.8	4	9.588	-0.008	4196	20.1
	Total Col1Ave (4 peaks):				321.3	Total Col2Ave (4 peaks):				201.6 RPD = 46*
	Corrected Ave (3 peaks):				305.4	Corrected Ave (3 peaks):				145.5 RPD = 71*
Aroclor-1254	1	9.310	-0.011	85412	190.6	1	9.457	-0.003	45722	208.2
Aroclor-1254	2	---			0.0	2	9.977	-0.001	10332	58.5
Aroclor-1254	3	9.677	-0.017	16566	58.5	3	10.153	0.025	105158	277.1
Aroclor-1254	4	9.815	-0.016	49765	90.2	4	10.378	0.002	136627	347.7
Aroclor-1254	5	10.130	-0.059	232251	614.0	5	10.573	-0.002	183417	967.7
	Total Col1Ave (4 peaks):				238.3	Total Col2Ave (5 peaks):				371.9 RPD = 44*
	Corrected Ave (3 peaks):				113.1	Corrected Ave (4 peaks):				222.9 RPD = 65*
Aroclor-1260	1	11.053	-0.003	197120	430.0	1	11.660	-0.002	145278	462.6
Aroclor-1260	2	11.370	-0.002	209192	441.2	2	11.923	-0.002	356909	452.9
Aroclor-1260	3	11.742	-0.004	549830	441.4	3	12.442	-0.002	104021	495.7
Aroclor-1260	4	12.146	-0.002	292757	461.5	4	12.507	-0.001	250355	476.6
Aroclor-1260	5	12.253	-0.003	117772	453.5	NS	---			----
	Total Col1Ave (5 peaks):				445.5	Total Col2Ave (4 peaks):				472.0 RPD = 6
	Corrected Ave (4 peaks):				441.5	Corrected Ave (3 peaks):				464.1 RPD = 5
Aroclor-1262	1	10.833	-0.015	391502	929.7	1	11.206	-0.011	132009	291.8
Aroclor-1262	2	12.253	-0.010	117772	179.9	2	11.660	-0.010	145278	370.8
Aroclor-1262	3	12.327	-0.009	142482	203.8	3	12.442	-0.010	104021	240.7
Aroclor-1262	4	12.996	-0.009	138958	247.6	4	12.507	-0.012	250355	369.8
	Total Col1Ave (4 peaks):				390.2	Total Col2Ave (4 peaks):				318.3 RPD = 20
	Corrected Ave (3 peaks):				210.4	Corrected Ave (3 peaks):				300.8 RPD = 35
Aroclor-1268	1	12.253	-0.009	117772	66.8	1	12.442	-0.008	104021	92.6
Aroclor-1268	2	12.327	-0.008	142482	82.7	2	12.507	-0.010	250355	217.4
Aroclor-1268	3	12.733	0.017	64278	45.5	3	12.899	-0.011	5093	11.9
Aroclor-1268	4	13.496	-0.010	38290	8.9	4	13.715	-0.011	29453	9.6
	Total Col1Ave (4 peaks):				51.0	Total Col2Ave (4 peaks):				82.9 RPD = 48*

Corrected Ave (3 peaks): 40.4 Corrected Ave (3 peaks): 38.0 RPD = 6

Total PCB Area Col1 (5.933 - 13.802) = 5353453 Col1 Total PCB = 1.1 ppm*

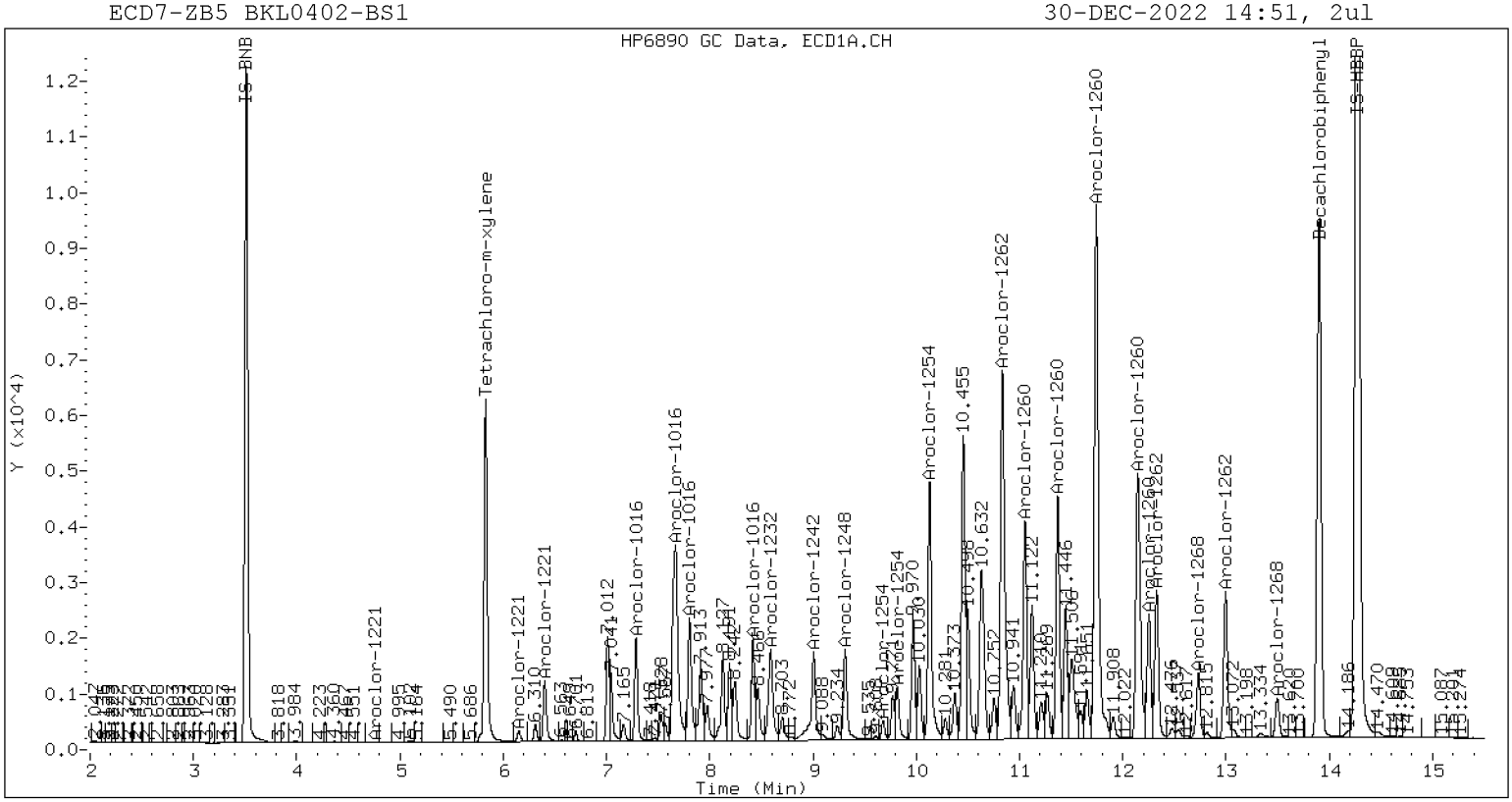
Total PCB Area Col2 (5.810 - 14.028) = 3347560 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

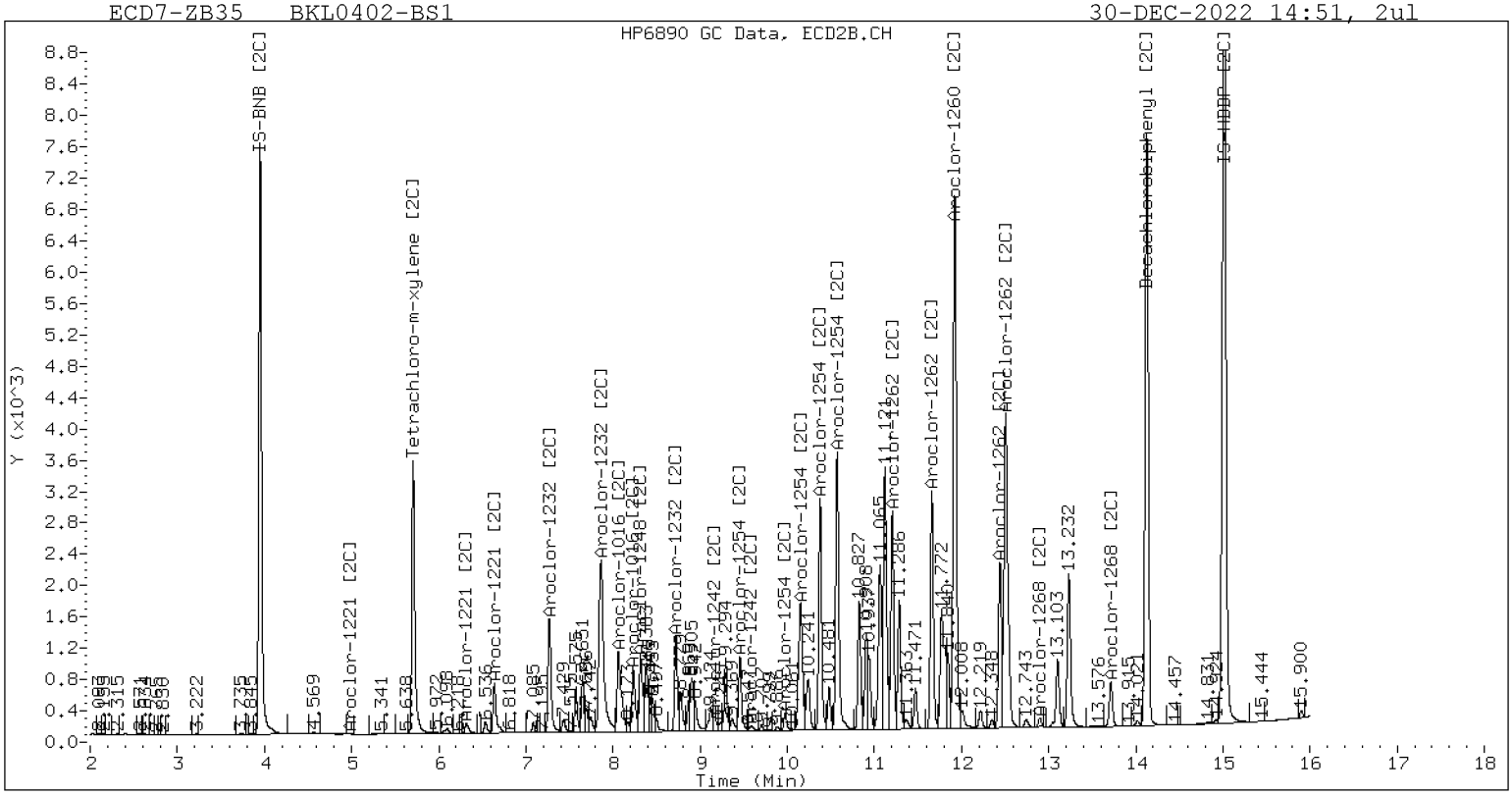
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0402-BS1 30-DEC-2022 14:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0402-BS1 30-DEC-2022 14:51, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302212ECD7.D
Data file 2: /221230.b/221230.b/12302212ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0402-BSD1
Client ID:
Injection Date: 30-DEC-2022 15:12
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.003	279821	5.708	-0.002	170343	38.3	35.9	6.3	Tetrachloro-m-xylene
13.902	-0.000	498895	14.128	-0.000	390920	43.3	46.1	6.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	515889	15.2
Hexabromobiphenyl	798898	1257790	57.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	345762	38.8
Hexabromobiphenyl	362541	597747	64.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.287	-0.004	77704	451.5	1	7.270	-0.002	74907	423.7
Aroclor-1016	2	7.667	-0.011	260154	468.2	2	7.864	-0.008	172336	452.0
Aroclor-1016	3	7.804	-0.008	107862	428.4	3	8.064	-0.007	69521	424.6
Aroclor-1016	4	8.418	-0.006	80425	501.1	4	8.234	-0.008	41433	481.2
Total Col1Ave (4 peaks):					462.3	Total Col2Ave (4 peaks):				445.4 RPD = 4
Corrected Ave (3 peaks):					449.4	Corrected Ave (3 peaks):				433.4 RPD = 4
Aroclor-1221	1	4.758	-0.002	483	11.3	1	4.980	-0.007	303	10.4
Aroclor-1221	2	6.152	-0.007	10188	135.6	2	6.317	-0.004	7641	137.4
Aroclor-1221	3	6.403	-0.006	50881	293.6	3	6.639	-0.006	31981	341.7
Total Col1Ave (3 peaks):					146.8	Total Col2Ave (3 peaks):				163.2 RPD = 11
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.004	483	18.8	1	4.980	-0.009	303	18.0
Aroclor-1232	2	6.152	-0.008	10188	187.9	2	7.270	-0.007	74907	872.4
Aroclor-1232	3	7.667	-0.017	260154	1068.5	3	7.864	-0.012	172336	1026.7
Aroclor-1232	4	8.591	-0.015	102868	995.8	4	8.724	-0.010	53174	1168.3
Total Col1Ave (4 peaks):					567.8	Total Col2Ave (4 peaks):				771.3 RPD = 30
Corrected Ave (3 peaks):					400.9	Corrected Ave (3 peaks):				639.0 RPD = 46*
Aroclor-1242	1	7.287	-0.003	77704	531.4	1	7.270	-0.002	74907	511.9
Aroclor-1242	2	7.667	-0.010	260154	560.3	2	7.864	-0.007	172336	554.8
Aroclor-1242	3	8.418	-0.003	80425	602.1	3	9.162	-0.007	9607	95.9
Aroclor-1242	4	9.006	-0.015	101459	365.8	4	9.588	-0.001	5200	43.2
Total Col1Ave (4 peaks):					514.9	Total Col2Ave (4 peaks):				301.4 RPD = 52*
Corrected Ave (3 peaks):					485.8	Corrected Ave (3 peaks):				217.0 RPD = 77*
Aroclor-1248	1	8.418	-0.006	80425	362.6	1	8.318	-0.004	50745	359.3
Aroclor-1248	2	8.591	-0.009	102868	363.2	2	8.724	-0.004	53174	357.9
Aroclor-1248	3	9.006	-0.012	101459	199.1	3	9.162	-0.011	9607	53.2
Aroclor-1248	4	9.310	0.000	86498	346.6	4	9.588	-0.008	5200	24.5
Total Col1Ave (4 peaks):					317.9	Total Col2Ave (4 peaks):				198.7 RPD = 46*
Corrected Ave (3 peaks):					302.8	Corrected Ave (3 peaks):				145.2 RPD = 70*
Aroclor-1254	1	9.310	-0.011	86498	190.4	1	9.457	-0.003	45316	203.3
Aroclor-1254	2	---			0.0	2	9.976	-0.001	10176	56.8
Aroclor-1254	3	9.677	-0.017	17448	60.8	3	10.153	0.025	104901	272.3
Aroclor-1254	4	9.815	-0.016	50516	90.3	4	10.378	0.002	135915	340.7
Aroclor-1254	5	10.130	-0.060	232030	605.3	5	10.573	-0.002	182409	947.9
Total Col1Ave (4 peaks):					236.7	Total Col2Ave (5 peaks):				364.2 RPD = 42*
Corrected Ave (3 peaks):					113.9	Corrected Ave (4 peaks):				218.2 RPD = 63*
Aroclor-1260	1	11.053	-0.003	198885	434.4	1	11.660	-0.002	145247	460.3
Aroclor-1260	2	11.370	-0.002	211459	446.6	2	11.923	-0.001	358946	453.4
Aroclor-1260	3	11.742	-0.004	551077	442.9	3	12.443	-0.001	103965	493.1
Aroclor-1260	4	12.146	-0.001	296306	467.6	4	12.507	-0.001	247970	469.8
Aroclor-1260	5	12.253	-0.003	119706	461.5	NS	---			----
Total Col1Ave (5 peaks):					450.6	Total Col2Ave (4 peaks):				469.2 RPD = 4
Corrected Ave (4 peaks):					446.3	Corrected Ave (3 peaks):				461.2 RPD = 3
Aroclor-1262	1	10.834	-0.014	392103	932.2	1	11.207	-0.010	131147	288.6
Aroclor-1262	2	12.253	-0.010	119706	183.1	2	11.660	-0.010	145247	369.0
Aroclor-1262	3	12.327	-0.009	145081	207.7	3	12.443	-0.009	103965	239.4
Aroclor-1262	4	12.995	-0.010	140582	250.8	4	12.507	-0.012	247970	364.6
Total Col1Ave (4 peaks):					393.5	Total Col2Ave (4 peaks):				315.4 RPD = 22
Corrected Ave (3 peaks):					213.9	Corrected Ave (3 peaks):				297.5 RPD = 33
Aroclor-1268	1	12.253	-0.010	119706	68.0	1	12.443	-0.007	103965	92.1
Aroclor-1268	2	12.327	-0.008	145081	84.3	2	12.507	-0.010	247970	214.3
Aroclor-1268	3	12.732	0.016	67297	47.7	3	12.901	-0.009	5130	12.0
Aroclor-1268	4	13.494	-0.012	30130	7.0	4	13.716	-0.011	28927	9.4
Total Col1Ave (4 peaks):					51.7	Total Col2Ave (4 peaks):				82.0 RPD = 45*

Corrected Ave (3 peaks): 40.9 Corrected Ave (3 peaks): 37.8 RPD = 8

Total PCB Area Col1 (5.933 - 13.802) = 5413179 Col1 Total PCB = 1.1 ppm*

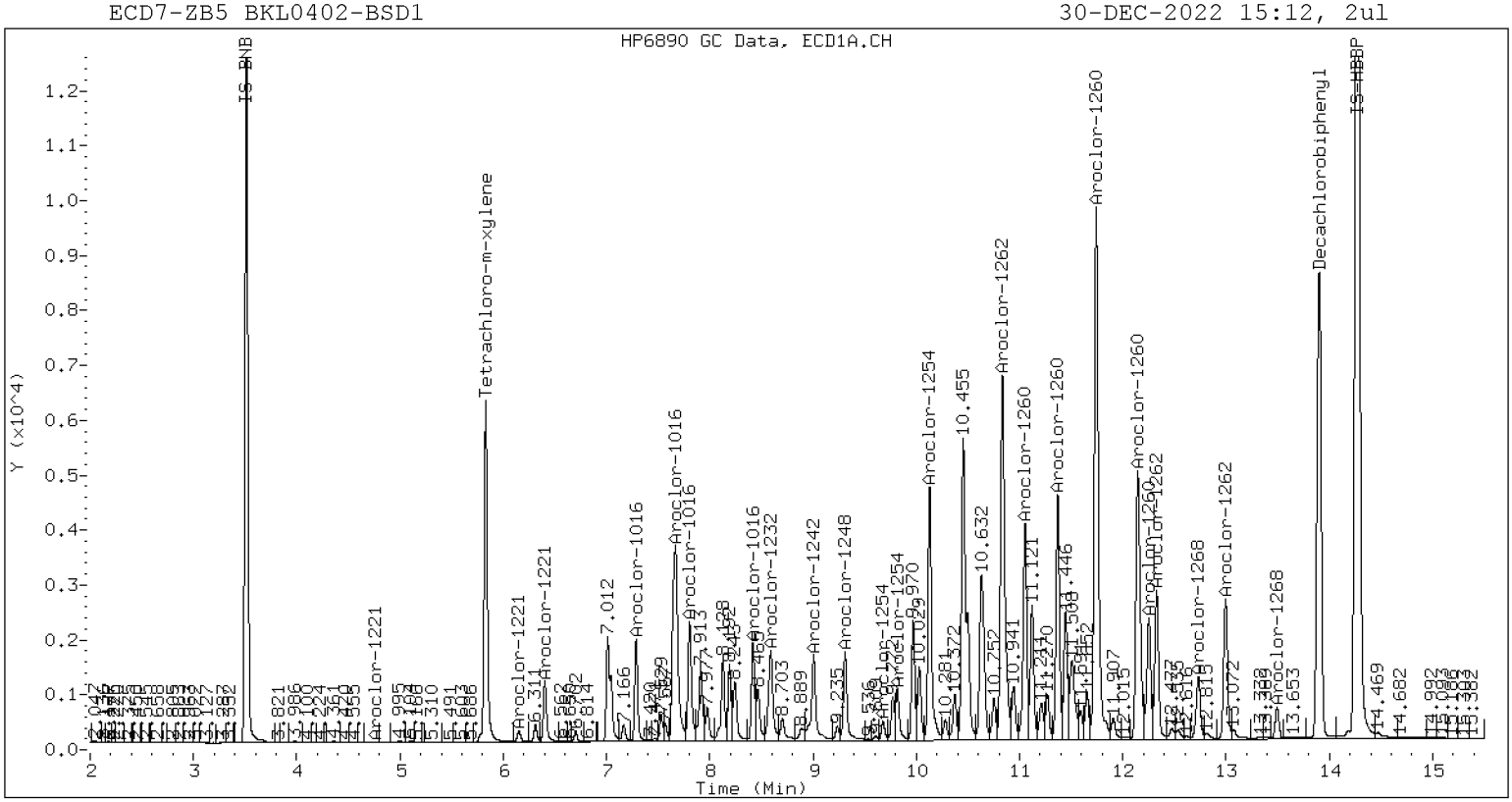
Total PCB Area Col2 (5.810 - 14.028) = 3347020 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

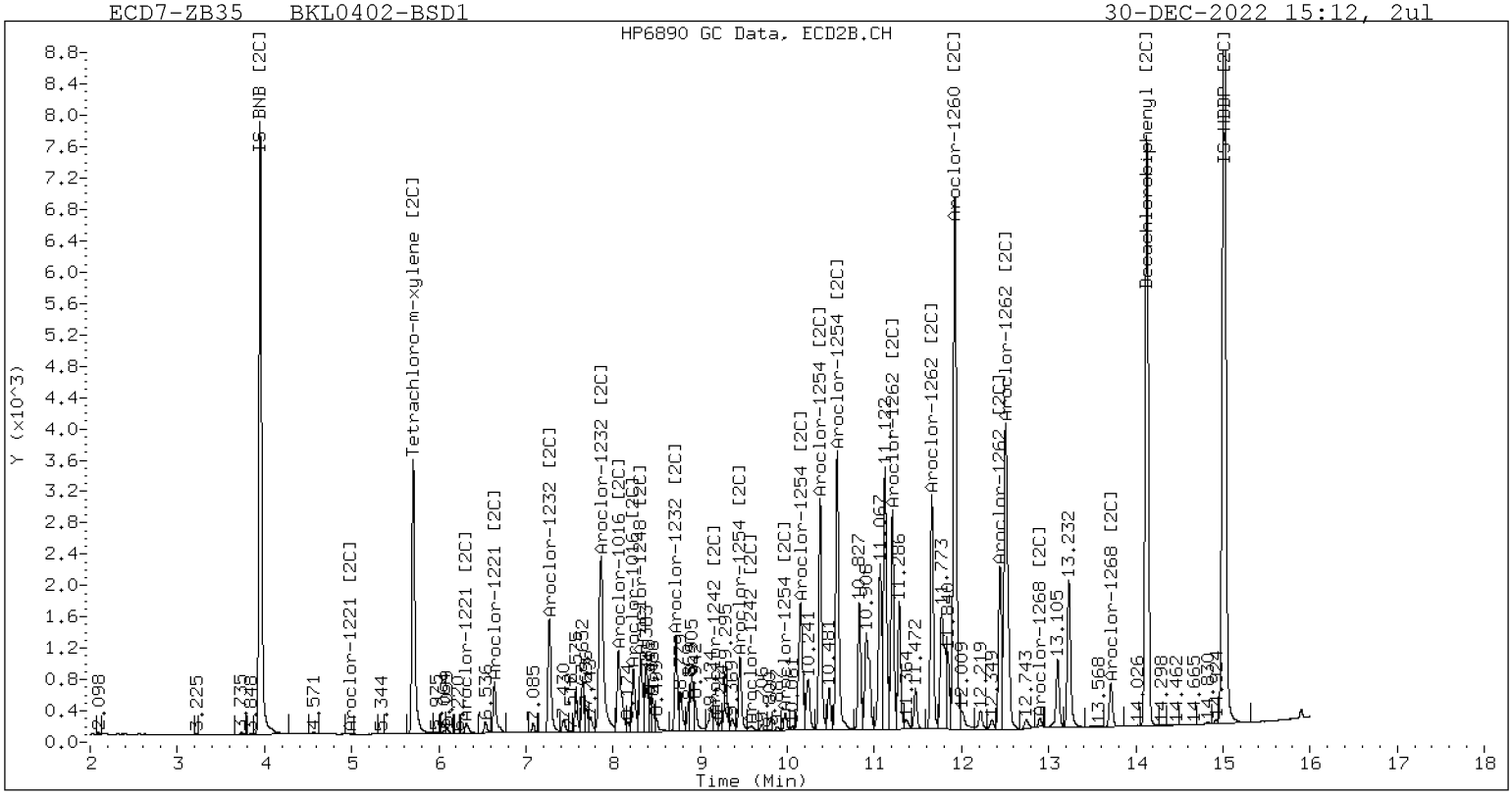
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0402-BSD1 30-DEC-2022 15:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0402-BSD1 30-DEC-2022 15:12, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/27/22 19:49
Batch:	BKL0404	Laboratory ID:	BKL0404-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	83.5		82.8	56 - 120
Aroclor 1260 [2C]	101	97.5		96.7	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	92.1		91.4	9.78	30	56 - 120
Aroclor 1260 [2C]	101	104		103	6.50	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272210ECD7.D
Data file 2: /221227.b/221227.b/12272210ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0404-BS1
Client ID:
Injection Date: 27-DEC-2022 19:49
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	263596	5.707	-0.002	154581	38.8	36.5	6.1	Tetrachloro-m-xylene
13.903	-0.001	427395	14.127	-0.001	323098	49.1	50.1	2.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	479528	7.1
Hexabromobiphenyl	798898	950192	18.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	309049	24.1
Hexabromobiphenyl	362541	454582	25.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.286	-0.003	66113	413.3	1	7.269	-0.003	60864	385.2
Aroclor-1016	2	7.668	-0.004	219031	424.1	2	7.864	-0.007	138345	406.0
Aroclor-1016	3	7.805	-0.005	90707	387.6	3	8.065	-0.007	55293	377.8
Aroclor-1016	4	8.418	-0.004	66375	444.9	4	8.234	-0.007	32585	423.4
	Total Col1Ave (4 peaks):				417.5	Total Col2Ave (4 peaks):				398.1 RPD = 5
	Corrected Ave (3 peaks):				408.3	Corrected Ave (3 peaks):				389.6 RPD = 5
Aroclor-1221	1	4.757	-0.003	414	10.4	1	---			0.0
Aroclor-1221	2	6.151	-0.007	8945	128.1	2	6.317	-0.005	6451	129.8
Aroclor-1221	3	6.402	-0.007	43723	271.4	3	6.639	-0.006	26503	316.8
	Total Col1Ave (3 peaks):				136.6	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.757	-0.004	414	17.4	1	---			0.0
Aroclor-1232	2	6.151	-0.008	8945	177.5	2	7.269	-0.008	60864	793.0
Aroclor-1232	3	7.668	-0.016	219031	967.8	3	7.864	-0.013	138345	922.1
Aroclor-1232	4	8.591	-0.014	86336	899.2	4	8.724	-0.010	41751	1026.3
	Total Col1Ave (4 peaks):				515.5	Total Col2Ave (3 peaks):				913.8 RPD = 56*
	Corrected Ave (3 peaks):				364.7	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.286	-0.009	66113	486.4	1	7.269	-0.002	60864	465.3
Aroclor-1242	2	7.668	-0.017	219031	507.5	2	7.864	-0.006	138345	498.2
Aroclor-1242	3	8.418	-0.011	66375	534.6	3	9.163	-0.007	7355	82.1
Aroclor-1242	4	9.006	-0.025	87927	341.0	4	9.590	0.000	3900	36.2
	Total Col1Ave (4 peaks):				467.4	Total Col2Ave (4 peaks):				270.5 RPD = 53*
	Corrected Ave (3 peaks):				445.0	Corrected Ave (3 peaks):				194.6 RPD = 78*
Aroclor-1248	1	8.418	-0.009	66375	321.9	1	8.318	-0.003	40882	323.8
Aroclor-1248	2	8.591	-0.013	86336	328.0	2	8.724	-0.003	41751	314.4
Aroclor-1248	3	9.006	-0.016	87927	185.7	3	9.163	-0.009	7355	45.5
Aroclor-1248	4	9.310	-0.001	71777	309.4	4	9.590	-0.004	3900	20.6
	Total Col1Ave (4 peaks):				286.2	Total Col2Ave (4 peaks):				176.1 RPD = 48*
	Corrected Ave (3 peaks):				272.3	Corrected Ave (3 peaks):				126.8 RPD = 73*
Aroclor-1254	1	9.310	-0.011	71777	170.0	1	9.457	-0.004	36324	182.3
Aroclor-1254	2	---			0.0	2	9.978	-0.001	8396	52.4
Aroclor-1254	3	9.678	-0.016	14306	53.6	3	10.154	0.024	83988	243.9
Aroclor-1254	4	9.815	-0.015	42114	81.0	4	10.379	-0.000	109554	307.2
Aroclor-1254	5	10.130	-0.059	194094	544.7	5	10.573	-0.002	147049	854.9
	Total Col1Ave (4 peaks):				212.3	Total Col2Ave (5 peaks):				328.2 RPD = 43*
	Corrected Ave (3 peaks):				101.6	Corrected Ave (4 peaks):				196.5 RPD = 64*
Aroclor-1260	1	11.054	-0.002	161825	467.9	1	11.661	-0.002	114985	479.2
Aroclor-1260	2	11.369	-0.003	168925	472.2	2	11.923	-0.003	283351	470.6
Aroclor-1260	3	11.743	-0.000	435770	463.6	3	12.443	-0.002	81913	510.9
Aroclor-1260	4	12.146	-0.004	229392	479.2	4	12.506	-0.003	196128	488.6
Aroclor-1260	5	12.253	-0.002	90975	464.3	NS	---			----
	Total Col1Ave (5 peaks):				469.4	Total Col2Ave (4 peaks):				487.3 RPD = 4
	Corrected Ave (4 peaks):				467.0	Corrected Ave (3 peaks):				479.5 RPD = 3
Aroclor-1262	1	10.833	-0.015	322609	1015.3	1	11.207	-0.011	104812	303.2
Aroclor-1262	2	12.253	-0.009	90975	184.2	2	11.661	-0.009	114985	384.1
Aroclor-1262	3	12.326	-0.010	109995	208.5	3	12.443	-0.009	81913	248.1
Aroclor-1262	4	12.995	-0.010	107113	253.0	4	12.506	-0.013	196128	379.2
	Total Col1Ave (4 peaks):				415.2	Total Col2Ave (4 peaks):				328.6 RPD = 23
	Corrected Ave (3 peaks):				215.2	Corrected Ave (3 peaks):				310.2 RPD = 36
Aroclor-1268	1	12.253	-0.009	90975	68.4	1	12.443	-0.007	81913	95.5
Aroclor-1268	2	12.326	-0.009	109995	84.6	2	12.506	-0.011	196128	222.9
Aroclor-1268	3	12.733	0.016	51633	48.4	3	12.900	-0.010	4039	12.4
Aroclor-1268	4	13.495	-0.011	23038	7.1	4	13.714	-0.012	21683	9.2
	Total Col1Ave (4 peaks):				52.1	Total Col2Ave (4 peaks):				85.0 RPD = 48*
	Corrected Ave (3 peaks):				41.3	Corrected Ave (3 peaks):				39.0 RPD = 6

Total PCB Area Col1 (5.931 - 13.803) = 4385937 Col1 Total PCB = 1.0 ppm*

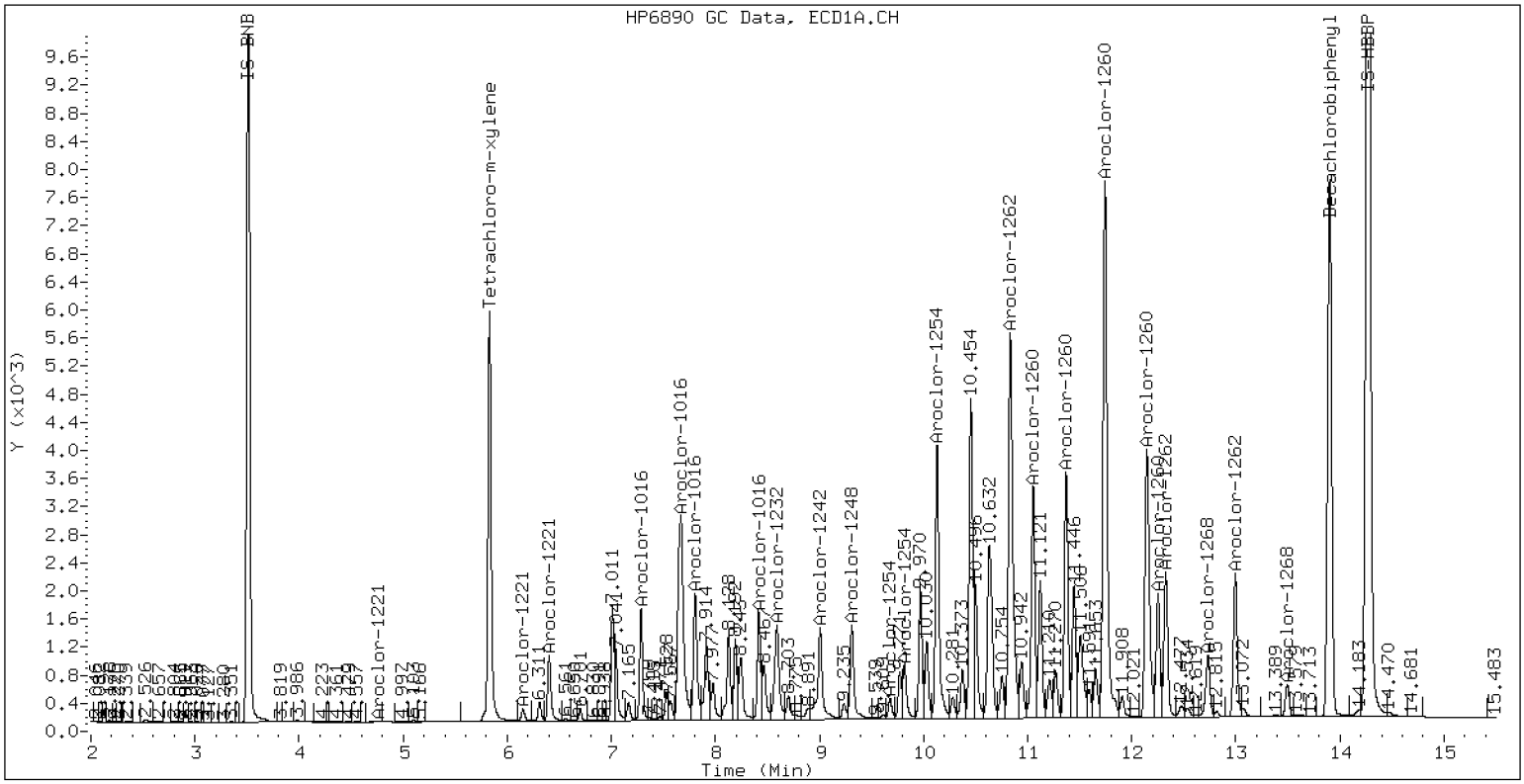
Total PCB Area Col2 (5.809 - 14.028) = 2661535 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BKL0404-BS1 27-DEC-2022 19:49, 2ul



ZB-5 Manual Integration: NO

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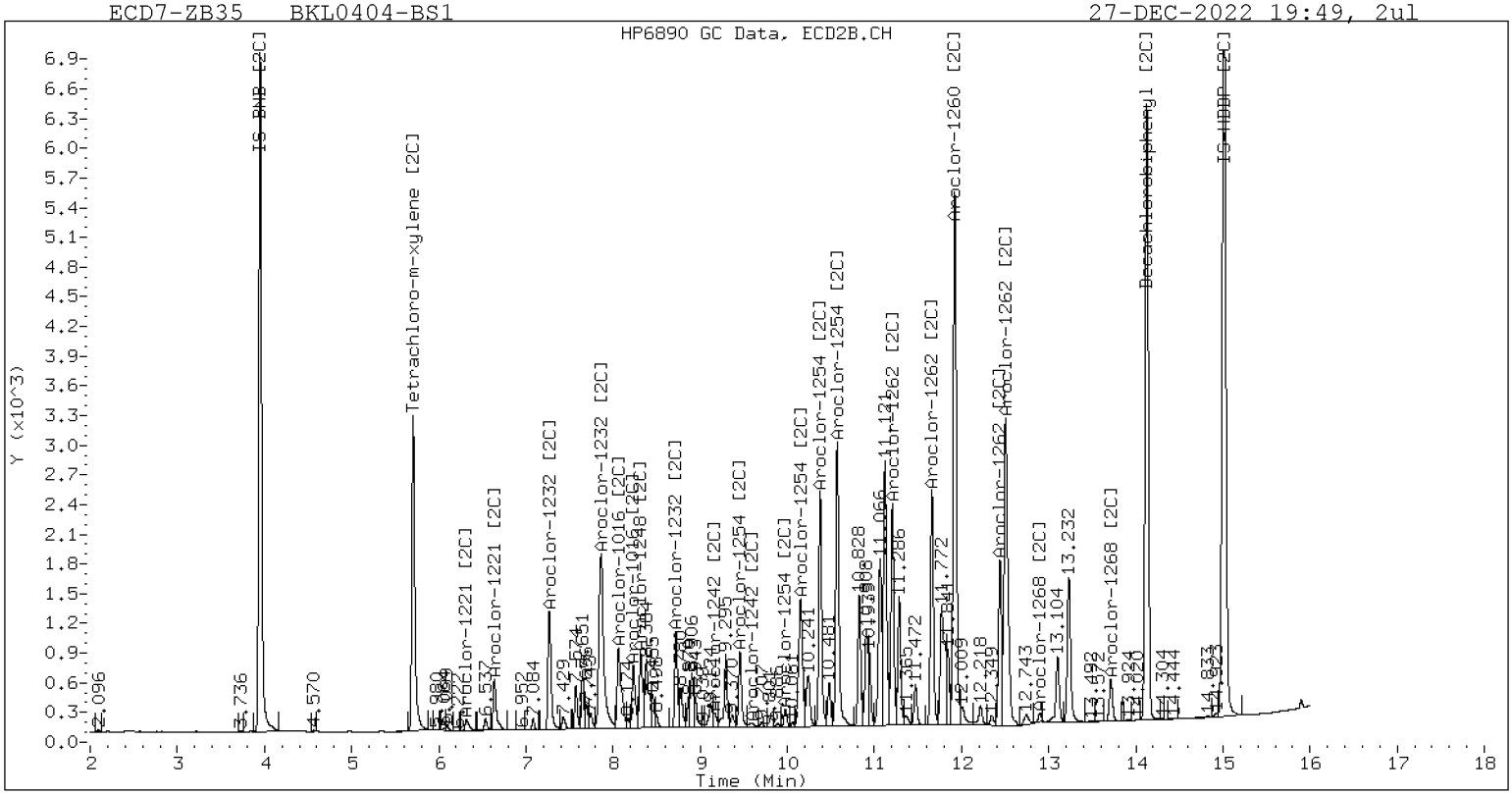


ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272211ECD7.D
Data file 2: /221227.b/221227.b/12272211ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0404-BSD1
Client ID:
Injection Date: 27-DEC-2022 20:10
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	277344	5.708	-0.001	162948	40.3	37.9	6.1	Tetrachloro-m-xylene
13.902	-0.002	447413	14.128	-0.000	325670	49.9	49.6	0.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	486050	8.6
Hexabromobiphenyl	798898	978353	22.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313650	25.9
Hexabromobiphenyl	362541	462800	27.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.286	-0.003	74422	459.0	1	7.269	-0.003	68269	425.7
Aroclor-1016	2	7.666	-0.006	245836	469.6	2	7.863	-0.008	154094	445.5
Aroclor-1016	3	7.803	-0.006	100843	425.1	3	8.063	-0.008	61527	414.2
Aroclor-1016	4	8.417	-0.005	73783	487.9	4	8.234	-0.008	36752	470.6
Total Col1Ave (4 peaks):					460.4	Total Col2Ave (4 peaks):				439.0 RPD = 5
Corrected Ave (3 peaks):					451.3	Corrected Ave (3 peaks):				428.5 RPD = 5
Aroclor-1221	1	4.758	-0.002	484	12.0	1	4.988	0.001	256	9.7
Aroclor-1221	2	6.152	-0.007	10347	146.2	2	6.317	-0.005	7255	143.8
Aroclor-1221	3	6.402	-0.007	49447	302.8	3	6.639	-0.007	30086	354.4
Total Col1Ave (3 peaks):					153.7	Total Col2Ave (3 peaks):				169.3 RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	484	20.0	1	4.988	-0.001	256	16.8
Aroclor-1232	2	6.152	-0.008	10347	202.6	2	7.269	-0.008	68269	876.5
Aroclor-1232	3	7.666	-0.018	245836	1071.7	3	7.863	-0.014	154094	1012.0
Aroclor-1232	4	8.590	-0.015	95583	982.1	4	8.724	-0.010	46779	1133.0
Total Col1Ave (4 peaks):					569.1	Total Col2Ave (4 peaks):				759.6 RPD = 29
Corrected Ave (3 peaks):					401.6	Corrected Ave (3 peaks):				635.1 RPD = 45*
Aroclor-1242	1	7.286	-0.009	74422	540.2	1	7.269	-0.002	68269	514.3
Aroclor-1242	2	7.666	-0.019	245836	562.0	2	7.863	-0.007	154094	546.8
Aroclor-1242	3	8.417	-0.012	73783	586.3	3	9.164	-0.006	8416	92.6
Aroclor-1242	4	9.006	-0.026	86793	332.1	4	9.587	-0.003	4599	42.1
Total Col1Ave (4 peaks):					505.1	Total Col2Ave (4 peaks):				298.9 RPD = 51*
Corrected Ave (3 peaks):					478.1	Corrected Ave (3 peaks):				216.3 RPD = 75*
Aroclor-1248	1	8.417	-0.010	73783	353.1	1	8.317	-0.004	45414	354.4
Aroclor-1248	2	8.590	-0.014	95583	358.2	2	8.724	-0.004	46779	347.1
Aroclor-1248	3	9.006	-0.017	86793	180.8	3	9.164	-0.009	8416	51.3
Aroclor-1248	4	9.310	-0.001	79818	339.4	4	9.587	-0.007	4599	23.9
Total Col1Ave (4 peaks):					307.9	Total Col2Ave (4 peaks):				194.2 RPD = 45*
Corrected Ave (3 peaks):					291.1	Corrected Ave (3 peaks):				140.8 RPD = 70*
Aroclor-1254	1	9.310	-0.011	79818	186.5	1	9.457	-0.004	39754	196.6
Aroclor-1254	2	---			0.0	2	9.977	-0.002	9132	56.2
Aroclor-1254	3	9.677	-0.017	16216	60.0	3	10.154	0.024	91827	262.8
Aroclor-1254	4	9.815	-0.016	46596	88.4	4	10.378	-0.001	117797	325.5
Aroclor-1254	5	10.129	-0.060	210309	582.3	5	10.574	-0.002	157808	904.0
Total Col1Ave (4 peaks):					229.3	Total Col2Ave (5 peaks):				349.0 RPD = 41*
Corrected Ave (3 peaks):					111.6	Corrected Ave (4 peaks):				210.2 RPD = 61*
Aroclor-1260	1	11.054	-0.002	176052	494.4	1	11.660	-0.003	123543	505.7
Aroclor-1260	2	11.369	-0.002	184708	501.5	2	11.923	-0.003	304817	497.3
Aroclor-1260	3	11.743	-0.001	479906	495.9	3	12.443	-0.002	90531	554.6
Aroclor-1260	4	12.145	-0.005	252318	512.0	4	12.508	-0.001	213629	522.8
Aroclor-1260	5	12.254	-0.002	100640	498.8	NS	---			----
Total Col1Ave (5 peaks):					500.5	Total Col2Ave (4 peaks):				520.1 RPD = 4
Corrected Ave (4 peaks):					497.6	Corrected Ave (3 peaks):				508.6 RPD = 2
Aroclor-1262	1	10.833	-0.015	350719	1072.0	1	11.207	-0.010	112974	321.0
Aroclor-1262	2	12.254	-0.009	100640	197.9	2	11.660	-0.010	123543	405.4
Aroclor-1262	3	12.327	-0.010	122105	224.8	3	12.443	-0.009	90531	269.3
Aroclor-1262	4	12.995	-0.010	120734	276.9	4	12.508	-0.011	213629	405.7
Total Col1Ave (4 peaks):					442.9	Total Col2Ave (4 peaks):				350.3 RPD = 23
Corrected Ave (3 peaks):					233.2	Corrected Ave (3 peaks):				331.9 RPD = 35
Aroclor-1268	1	12.254	-0.009	100640	73.5	1	12.443	-0.007	90531	103.6
Aroclor-1268	2	12.327	-0.008	122105	91.2	2	12.508	-0.009	213629	238.5
Aroclor-1268	3	12.733	0.017	56628	51.6	3	12.901	-0.009	4369	13.2
Aroclor-1268	4	13.498	-0.008	42831	12.8	4	13.716	-0.011	25424	10.6
Total Col1Ave (4 peaks):					57.3	Total Col2Ave (4 peaks):				91.5 RPD = 46*

Corrected Ave (3 peaks): 46.0 Corrected Ave (3 peaks): 42.5 RPD = 8

Total PCB Area Col1 (5.931 - 13.803) = 4905338 Col1 Total PCB = 1.1 ppm*

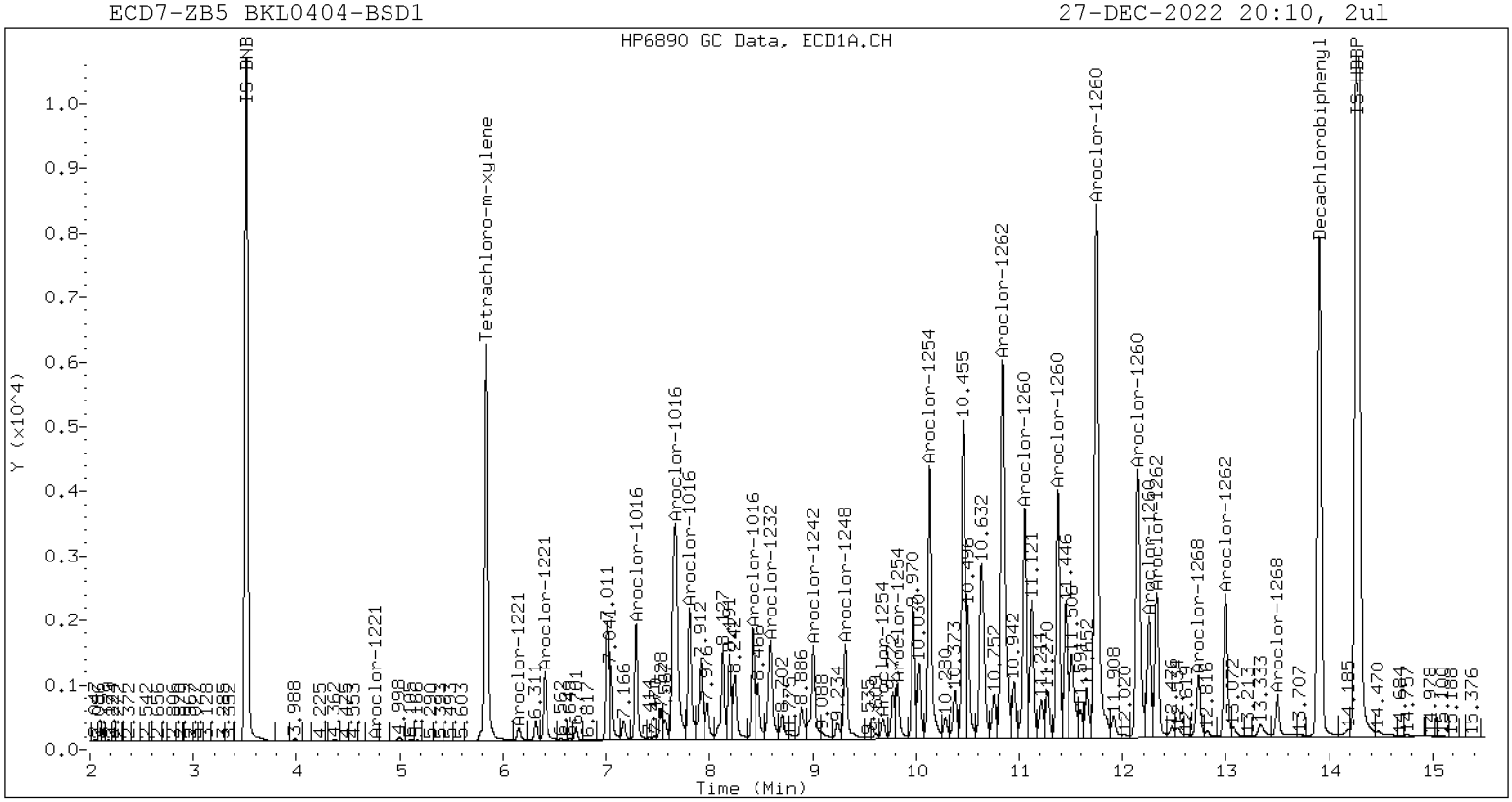
Total PCB Area Col2 (5.809 - 14.028) = 2904301 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

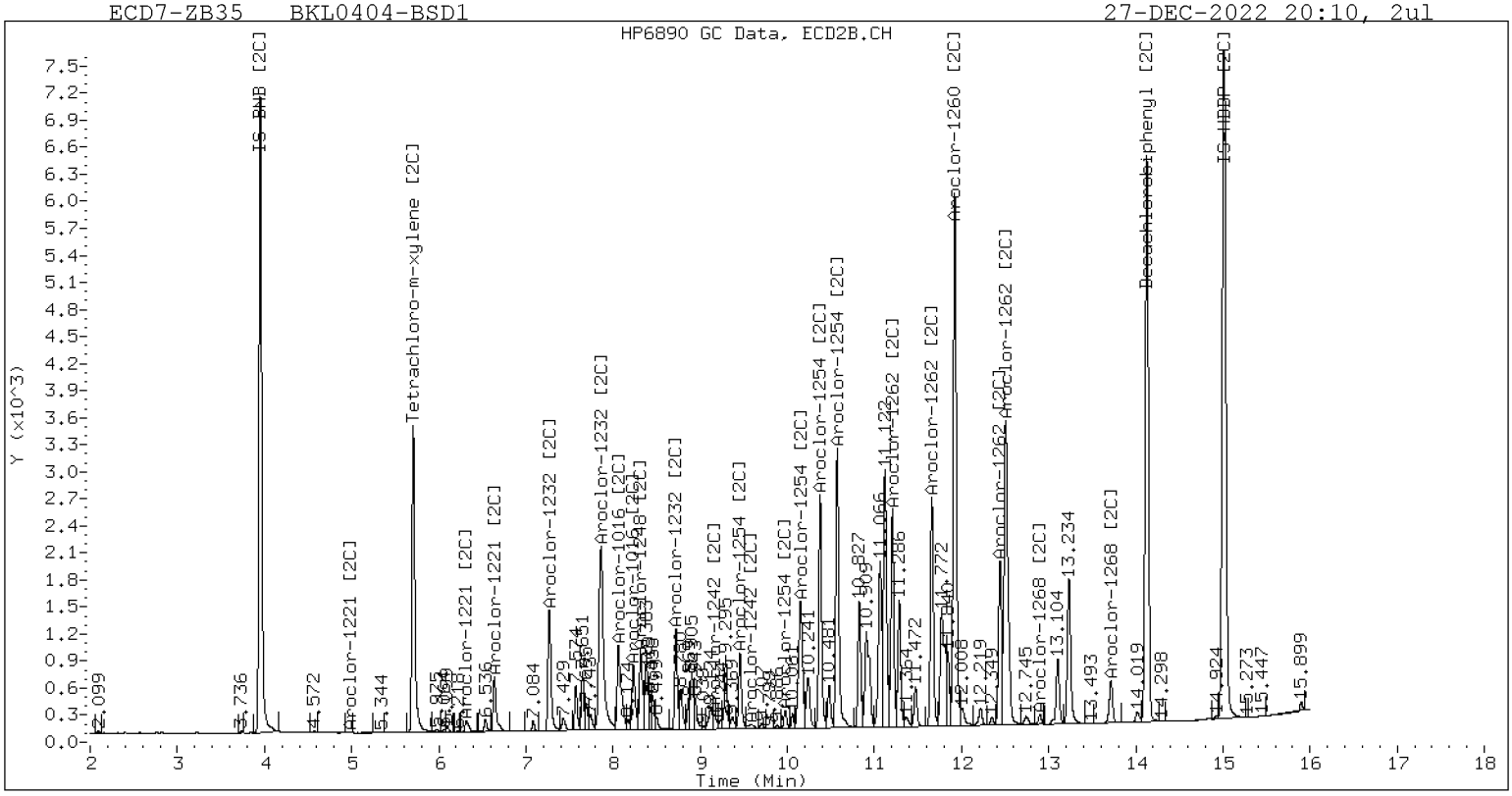
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0404-BSD1 27-DEC-2022 20:10, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0404-BSD1 27-DEC-2022 20:10, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/31/22 11:34
Batch:	BKL0488	Laboratory ID:	BKL0488-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	90.3		89.6	56 - 120
Aroclor 1260 [2C]	101	104		103	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	92.8		92.1	2.73	30	56 - 120
Aroclor 1260 [2C]	101	103		102	1.17	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312205ECD7.D
Data file 2: /221231.b/221231.b/12312205ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0488-BS1
Client ID:
Injection Date: 31-DEC-2022 11:34
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	289211	5.708	-0.002	175837	39.7	37.1	6.6	Tetrachloro-m-xylene
13.901	-0.000	454270	14.128	-0.002	362309	46.8	49.6	5.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	514676	15.0
Hexabromobiphenyl	798898	1059907	32.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	345608	38.7
Hexabromobiphenyl	362541	514689	42.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.287	-0.007	77056	448.8	1	7.271	-0.003	72281	409.0
Aroclor-1016	2	7.668	-0.017	254305	458.8	2	7.865	-0.009	165142	433.3
Aroclor-1016	3	7.806	-0.012	105052	418.2	3	8.064	-0.008	66566	406.7
Aroclor-1016	4	8.418	-0.011	76838	479.9	4	8.235	-0.009	39742	461.8
Total Col1Ave (4 peaks):					451.4	Total Col2Ave (4 peaks):				427.7 RPD = 5
Corrected Ave (3 peaks):					442.0	Corrected Ave (3 peaks):				416.4 RPD = 6
Aroclor-1221	1	4.758	-0.002	674	15.8	1	4.983	-0.004	254	8.7
Aroclor-1221	2	6.153	-0.006	10211	136.2	2	6.318	-0.003	8362	150.4
Aroclor-1221	3	6.403	-0.006	49862	288.4	3	6.640	-0.005	31122	332.7
Total Col1Ave (3 peaks):					146.8	Total Col2Ave (3 peaks):				163.9 RPD = 11
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	674	26.3	1	4.983	-0.007	254	15.1
Aroclor-1232	2	6.153	-0.007	10211	188.8	2	7.271	-0.006	72281	842.2
Aroclor-1232	3	7.668	-0.016	254305	1047.0	3	7.865	-0.011	165142	984.2
Aroclor-1232	4	8.591	-0.015	99430	964.8	4	8.725	-0.009	50819	1117.1
Total Col1Ave (4 peaks):					556.7	Total Col2Ave (4 peaks):				739.7 RPD = 28
Corrected Ave (3 peaks):					393.3	Corrected Ave (3 peaks):				613.8 RPD = 44*
Aroclor-1242	1	7.287	-0.002	77056	528.2	1	7.271	-0.001	72281	494.2
Aroclor-1242	2	7.668	-0.010	254305	549.0	2	7.865	-0.005	165142	531.8
Aroclor-1242	3	8.418	-0.005	76838	576.6	3	9.165	-0.005	9304	92.9
Aroclor-1242	4	9.006	-0.017	104628	378.1	4	9.589	-0.004	5092	42.3
Total Col1Ave (4 peaks):					508.0	Total Col2Ave (4 peaks):				290.3 RPD = 55*
Corrected Ave (3 peaks):					485.1	Corrected Ave (3 peaks):				209.8 RPD = 79*
Aroclor-1248	1	8.418	-0.009	76838	347.2	1	8.319	-0.004	49371	349.7
Aroclor-1248	2	8.591	-0.014	99430	351.9	2	8.725	-0.004	50819	342.2
Aroclor-1248	3	9.006	-0.017	104628	205.8	3	9.165	-0.009	9304	51.5
Aroclor-1248	4	9.310	-0.001	84914	341.0	4	9.589	-0.007	5092	24.0
Total Col1Ave (4 peaks):					311.5	Total Col2Ave (4 peaks):				191.9 RPD = 48*
Corrected Ave (3 peaks):					298.0	Corrected Ave (3 peaks):				139.2 RPD = 73*
Aroclor-1254	1	9.310	-0.011	84914	187.4	1	9.457	-0.004	44673	200.5
Aroclor-1254	2	---			0.0	2	9.978	-0.001	10095	56.3
Aroclor-1254	3	9.677	-0.017	16774	58.6	3	10.153	0.023	103894	269.8
Aroclor-1254	4	9.814	-0.017	49581	88.9	4	10.379	0.000	134552	337.4
Aroclor-1254	5	10.130	-0.060	226396	592.0	5	10.573	-0.002	180133	936.5
Total Col1Ave (4 peaks):					231.7	Total Col2Ave (5 peaks):				360.1 RPD = 43*
Corrected Ave (3 peaks):					111.6	Corrected Ave (4 peaks):				216.0 RPD = 64*
Aroclor-1260	1	11.053	-0.009	188188	487.8	1	11.661	-0.002	140927	518.7
Aroclor-1260	2	11.369	-0.008	196845	493.3	2	11.924	-0.002	344028	504.6
Aroclor-1260	3	11.742	-0.010	509677	486.1	3	12.443	-0.002	97384	536.4
Aroclor-1260	4	12.146	-0.012	275298	515.6	4	12.508	-0.002	238976	525.9
Aroclor-1260	5	12.253	-0.009	109499	501.0	NS	---			----
Total Col1Ave (5 peaks):					496.8	Total Col2Ave (4 peaks):				521.4 RPD = 5
Corrected Ave (4 peaks):					492.0	Corrected Ave (3 peaks):				516.4 RPD = 5
Aroclor-1262	1	10.833	-0.015	374778	1057.4	1	11.207	-0.010	128778	329.1
Aroclor-1262	2	12.253	-0.010	109499	198.7	2	11.661	-0.009	140927	415.8
Aroclor-1262	3	12.327	-0.010	132341	224.9	3	12.443	-0.009	97384	260.5
Aroclor-1262	4	12.995	-0.010	121773	257.8	4	12.508	-0.011	238976	408.1
Total Col1Ave (4 peaks):					434.7	Total Col2Ave (4 peaks):				353.3 RPD = 21
Corrected Ave (3 peaks):					227.1	Corrected Ave (3 peaks):				332.5 RPD = 38
Aroclor-1268	1	12.253	-0.010	109499	73.8	1	12.443	-0.007	97384	100.2
Aroclor-1268	2	12.327	-0.008	132341	91.2	2	12.508	-0.009	238976	239.9
Aroclor-1268	3	12.732	0.015	58248	49.0	3	12.901	-0.009	4540	12.3
Aroclor-1268	4	13.496	-0.009	35257	9.7	4	13.715	-0.011	25738	9.7
Total Col1Ave (4 peaks):					55.9	Total Col2Ave (4 peaks):				90.5 RPD = 47*

Corrected Ave (3 peaks): 44.2 Corrected Ave (3 peaks): 40.7 RPD = 8

Total PCB Area Col1 (5.932 - 13.801) = 5119988 Col1 Total PCB = 1.0 ppm*

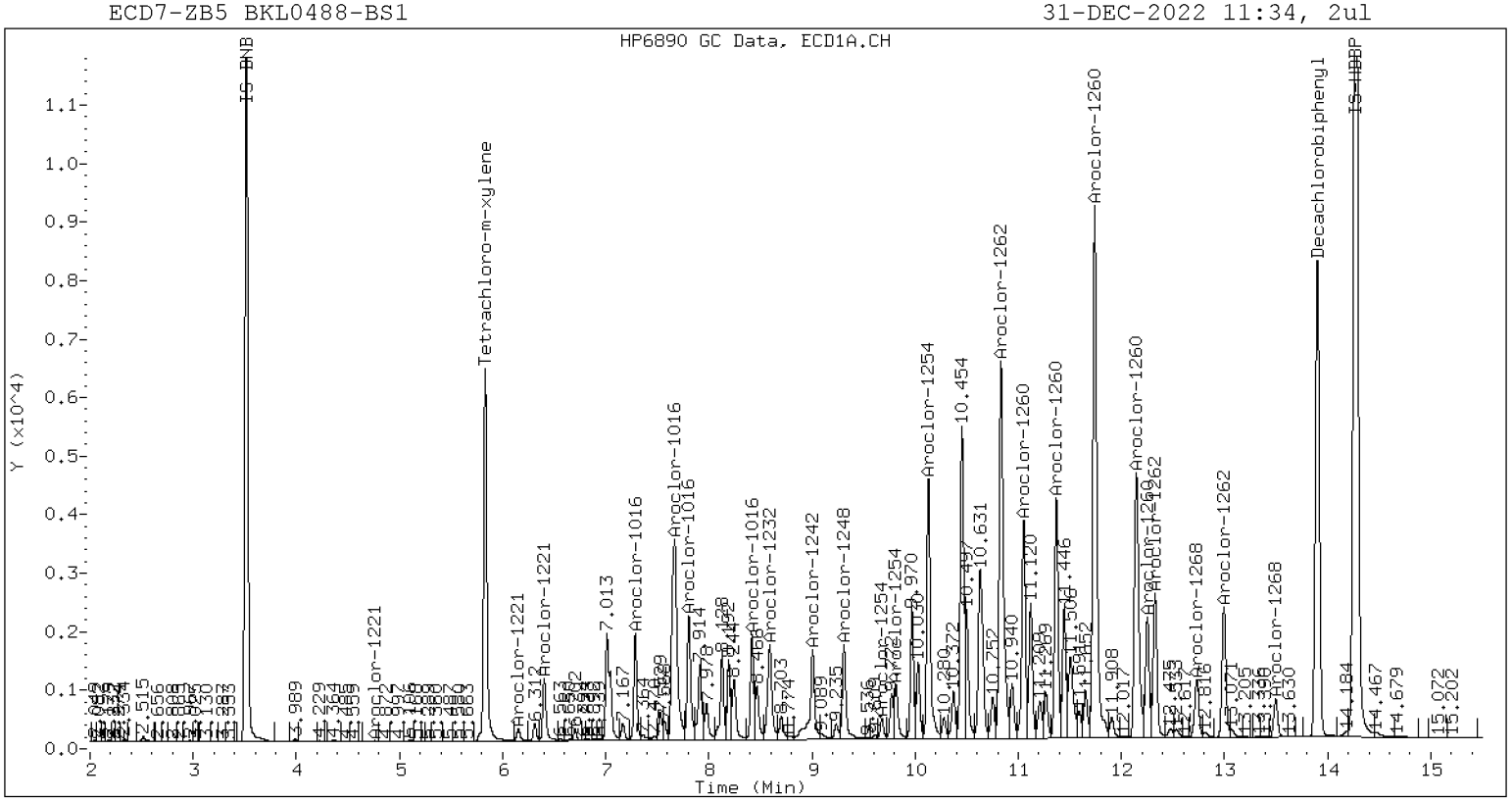
Total PCB Area Col2 (5.810 - 14.030) = 3234897 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

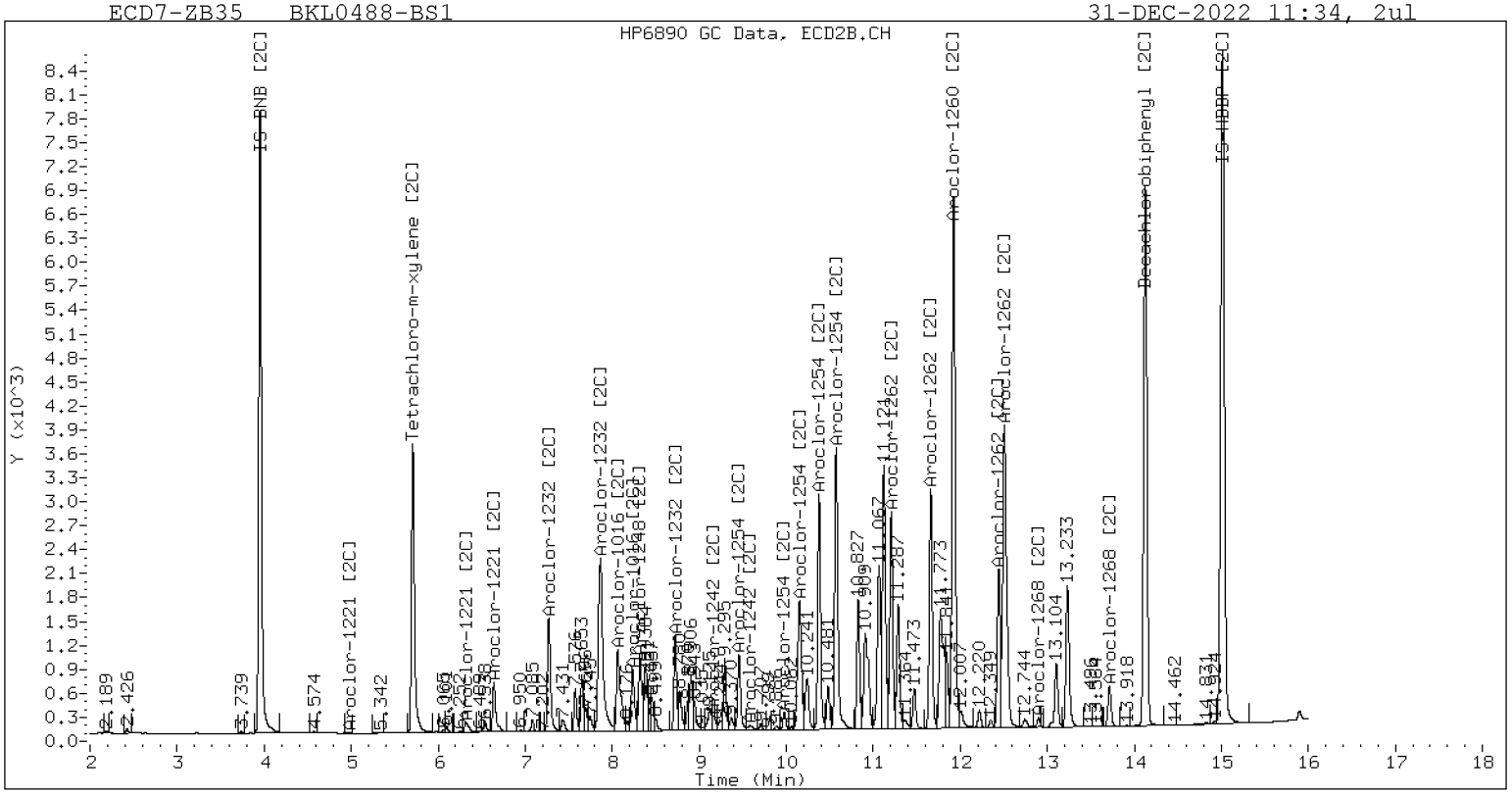
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0488-BS1 31-DEC-2022 11:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0488-BS1 31-DEC-2022 11:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312206ECD7.D
Data file 2: /221231.b/221231.b/12312206ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0488-BSD1
Client ID:
Injection Date: 31-DEC-2022 11:55
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	268982	5.708	-0.002	163253	39.0	36.3	7.4	Tetrachloro-m-xylene
13.902	0.001	437335	14.127	-0.003	344606	45.0	47.4	5.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	486403	8.7
Hexabromobiphenyl	798898	1059096	32.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	328526	31.9
Hexabromobiphenyl	362541	511836	41.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.286	-0.008	73266	451.6	1	7.270	-0.004	70601	420.3
Aroclor-1016	2	7.668	-0.016	247766	473.0	2	7.865	-0.010	161765	446.5
Aroclor-1016	3	7.805	-0.013	102276	430.9	3	8.065	-0.008	64920	417.3
Aroclor-1016	4	8.418	-0.012	75725	500.4	4	8.234	-0.009	38622	472.1
Total Col1Ave (4 peaks):					463.9	Total Col2Ave (4 peaks):				439.1 RPD = 6
Corrected Ave (3 peaks):					451.8	Corrected Ave (3 peaks):				428.0 RPD = 5
Aroclor-1221	1	4.757	-0.003	607	15.1	1	---			0.0
Aroclor-1221	2	6.152	-0.007	8827	124.6	2	6.317	-0.004	7226	136.7
Aroclor-1221	3	6.402	-0.006	46364	283.7	3	6.640	-0.006	30235	340.0
Total Col1Ave (3 peaks):					141.1	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.757	-0.004	607	25.1	1	---			0.0
Aroclor-1232	2	6.152	-0.008	8827	172.7	2	7.270	-0.007	70601	865.4
Aroclor-1232	3	7.668	-0.016	247766	1079.3	3	7.865	-0.012	161765	1014.2
Aroclor-1232	4	8.591	-0.015	97768	1003.8	4	8.725	-0.009	49529	1145.3
Total Col1Ave (4 peaks):					570.2	Total Col2Ave (3 peaks):				1008.3 RPD = 56*
Corrected Ave (3 peaks):					400.5	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.286	-0.003	73266	531.4	1	7.270	-0.002	70601	507.8
Aroclor-1242	2	7.668	-0.010	247766	566.0	2	7.865	-0.006	161765	548.1
Aroclor-1242	3	8.418	-0.006	75725	601.3	3	9.164	-0.006	9151	96.1
Aroclor-1242	4	9.006	-0.017	101131	386.7	4	9.589	-0.003	4616	40.3
Total Col1Ave (4 peaks):					521.3	Total Col2Ave (4 peaks):				298.1 RPD = 54*
Corrected Ave (3 peaks):					494.7	Corrected Ave (3 peaks):				214.7 RPD = 79*
Aroclor-1248	1	8.418	-0.010	75725	362.1	1	8.318	-0.005	47981	357.5
Aroclor-1248	2	8.591	-0.013	97768	366.1	2	8.725	-0.004	49529	350.9
Aroclor-1248	3	9.006	-0.016	101131	210.5	3	9.164	-0.010	9151	53.3
Aroclor-1248	4	9.310	-0.001	82560	350.8	4	9.589	-0.006	4616	22.9
Total Col1Ave (4 peaks):					322.4	Total Col2Ave (4 peaks):				196.1 RPD = 49*
Corrected Ave (3 peaks):					307.8	Corrected Ave (3 peaks):				142.4 RPD = 74*
Aroclor-1254	1	9.310	-0.011	82560	192.8	1	9.458	-0.003	43617	205.9
Aroclor-1254	2	---			0.0	2	9.978	-0.001	9802	57.6
Aroclor-1254	3	9.677	-0.017	15718	58.1	3	10.154	0.024	101821	278.2
Aroclor-1254	4	9.814	-0.016	47513	90.1	4	10.379	0.001	132159	348.6
Aroclor-1254	5	10.130	-0.059	222948	616.9	5	10.574	-0.002	177722	972.0
Total Col1Ave (4 peaks):					239.5	Total Col2Ave (5 peaks):				372.5 RPD = 43*
Corrected Ave (3 peaks):					113.7	Corrected Ave (4 peaks):				222.6 RPD = 65*
Aroclor-1260	1	11.053	-0.009	183872	477.0	1	11.661	-0.002	138596	513.0
Aroclor-1260	2	11.370	-0.007	193333	484.9	2	11.923	-0.002	339897	501.4
Aroclor-1260	3	11.741	-0.010	497116	474.5	3	12.442	-0.003	95736	530.3
Aroclor-1260	4	12.145	-0.014	266507	499.5	4	12.508	-0.002	233557	516.8
Aroclor-1260	5	12.252	-0.009	106484	487.6	NS	---			----
Total Col1Ave (5 peaks):					484.7	Total Col2Ave (4 peaks):				515.4 RPD = 6
Corrected Ave (4 peaks):					481.0	Corrected Ave (3 peaks):				510.4 RPD = 6
Aroclor-1262	1	10.834	-0.014	369604	1043.6	1	11.208	-0.010	126656	325.4
Aroclor-1262	2	12.252	-0.011	106484	193.4	2	11.661	-0.009	138596	411.2
Aroclor-1262	3	12.326	-0.010	128620	218.7	3	12.442	-0.009	95736	257.5
Aroclor-1262	4	12.995	-0.010	120298	254.9	4	12.508	-0.012	233557	401.0
Total Col1Ave (4 peaks):					427.6	Total Col2Ave (4 peaks):				348.8 RPD = 20
Corrected Ave (3 peaks):					222.3	Corrected Ave (3 peaks):				328.0 RPD = 38
Aroclor-1268	1	12.252	-0.010	106484	71.9	1	12.442	-0.007	95736	99.1
Aroclor-1268	2	12.326	-0.009	128620	88.7	2	12.508	-0.010	233557	235.8
Aroclor-1268	3	12.732	0.016	57239	48.2	3	12.901	-0.009	4622	12.6
Aroclor-1268	4	13.495	-0.010	33137	9.1	4	13.715	-0.011	25433	9.6
Total Col1Ave (4 peaks):					54.5	Total Col2Ave (4 peaks):				89.3 RPD = 48*
Corrected Ave (3 peaks):					43.1	Corrected Ave (3 peaks):				40.4 RPD = 6

Total PCB Area Col1 (5.932 - 13.801) = 4983886 Col1 Total PCB = 1.1 ppm*

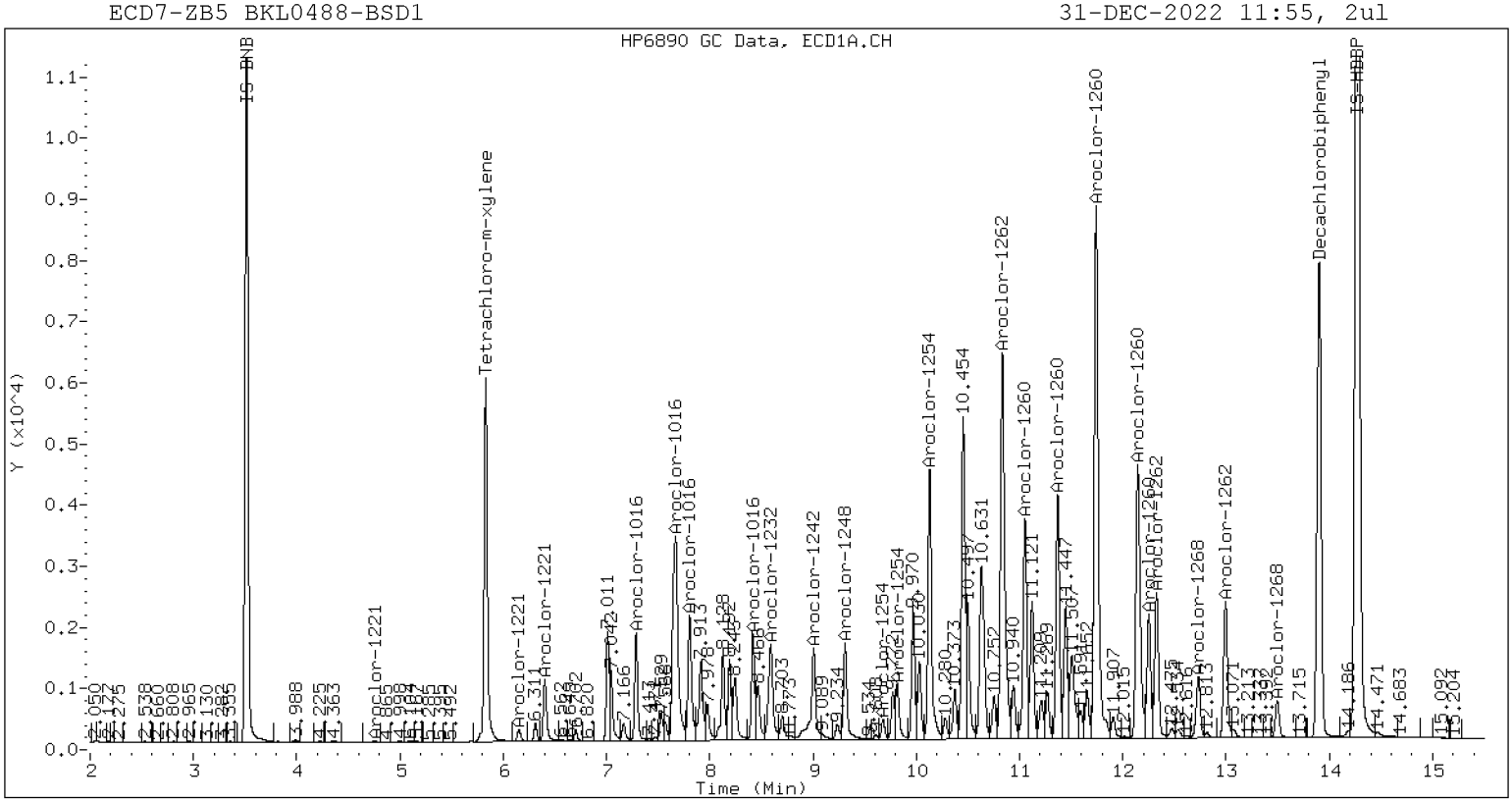
Total PCB Area Col2 (5.810 - 14.030) = 3161979 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

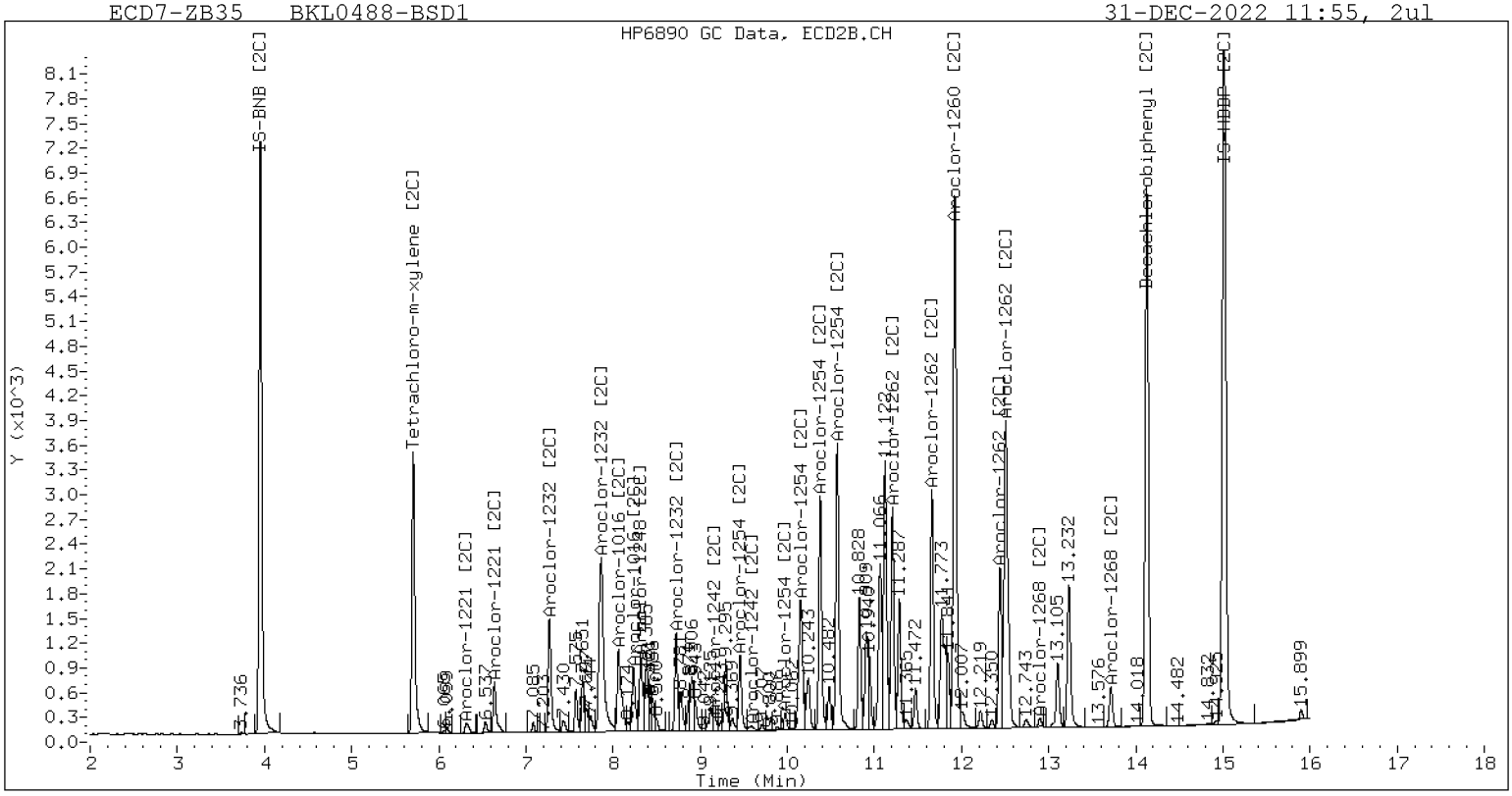
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0488-BSD1 31-DEC-2022 11:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0488-BSD1 31-DEC-2022 11:55, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/28/22 08:08
Batch:	BKL0401	Laboratory ID:	BKL0401-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	13.9 g / 2.5 mL	Source Sample:	LDW22-IT789G

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	100	ND	U	83.6		83.6	56 - 120
Aroclor 1260	100	ND	U	92.0		91.9	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/29/22 22:37
Batch:	BKL0401	Laboratory ID:	BKL0401-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	13.9 g / 2.5 mL	Source Sample:	LDW22-IT789G

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	100	84.9		84.9	1.54	30	56 - 120
Aroclor 1260	100	98.7		98.7	7.04	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272245ECD7.D
Data file 2: /221227.b/221227.b/12272245ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0401-MS1
Client ID:
Injection Date: 28-DEC-2022 08:08
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	224127	5.705	-0.004	153724	32.1	35.1	8.9	Tetrachloro-m-xylene
13.900	-0.003	370224	14.129	0.000	302367	43.5	44.4	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	492161	9.9
Hexabromobiphenyl	798898	927541	16.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	319357	28.2
Hexabromobiphenyl	362541	479128	32.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	ZB5 Col Amount	Peak#	RT	Shift	ZB35 Col Area	ZB35 Col Amount
Aroclor-1016	1	7.285	-0.003	68888	419.6	1	7.270	-0.003	67591	413.9
Aroclor-1016	2	7.664	-0.008	230899	435.6	2	7.861	-0.010	146390	415.7
Aroclor-1016	3	7.801	-0.009	91223	379.8	3	8.061	-0.010	59215	391.5
Aroclor-1016	4	8.416	-0.006	68637	448.2	4	8.232	-0.010	35765	449.7
	Total Col1Ave (4 peaks):				420.8	Total Col2Ave (4 peaks):				417.7 RPD = 1
	Corrected Ave (3 peaks):				411.7	Corrected Ave (3 peaks):				407.1 RPD = 1
Aroclor-1221	1	4.755	-0.005	2041	50.2	1	4.973	-0.014	916	34.0
Aroclor-1221	2	6.149	-0.010	11213	156.4	2	6.316	-0.005	9808	190.9
Aroclor-1221	3	6.400	-0.009	45080	272.6	3	6.638	-0.008	27546	318.7
	Total Col1Ave (3 peaks):				159.8	Total Col2Ave (3 peaks):				181.2 RPD = 13
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.755	-0.006	2041	83.4	1	4.973	-0.016	916	59.0
Aroclor-1232	2	6.149	-0.011	11213	216.8	2	7.270	-0.007	67591	852.3
Aroclor-1232	3	7.664	-0.019	230899	994.1	3	7.861	-0.015	146390	944.2
Aroclor-1232	4	8.588	-0.018	78399	795.6	4	8.723	-0.011	44967	1069.7
	Total Col1Ave (4 peaks):				522.4	Total Col2Ave (4 peaks):				731.3 RPD = 33
	Corrected Ave (3 peaks):				365.2	Corrected Ave (3 peaks):				618.5 RPD = 51*
Aroclor-1242	1	7.285	-0.009	68888	493.8	1	7.270	-0.002	67591	500.1
Aroclor-1242	2	7.664	-0.021	230899	521.3	2	7.861	-0.009	146390	510.2
Aroclor-1242	3	8.416	-0.013	68637	538.6	3	9.158	-0.012	8240	89.0
Aroclor-1242	4	9.004	-0.027	55238	208.7	4	9.582	-0.007	3489	31.4
	Total Col1Ave (4 peaks):				440.6	Total Col2Ave (4 peaks):				282.7 RPD = 44*
	Corrected Ave (3 peaks):				408.0	Corrected Ave (3 peaks):				206.8 RPD = 65*
Aroclor-1248	1	8.416	-0.011	68637	324.4	1	8.318	-0.004	41642	319.2
Aroclor-1248	2	8.588	-0.017	78399	290.2	2	8.723	-0.004	44967	327.7
Aroclor-1248	3	9.004	-0.018	55238	113.6	3	9.158	-0.015	8240	49.4
Aroclor-1248	4	9.308	-0.003	68113	286.0	4	9.582	-0.011	3489	17.8
	Total Col1Ave (4 peaks):				253.6	Total Col2Ave (4 peaks):				178.5 RPD = 35
	Corrected Ave (3 peaks):				230.0	Corrected Ave (3 peaks):				128.8 RPD = 56*
Aroclor-1254	1	9.308	-0.013	68113	157.2	1	9.456	-0.005	37503	182.1
Aroclor-1254	2	9.453	0.051	2330	13.8	2	9.975	-0.004	8672	52.4
Aroclor-1254	3	9.673	-0.021	13579	49.6	3	10.152	0.022	83792	235.5
Aroclor-1254	4	9.814	-0.017	67588	126.7	4	10.378	-0.000	114286	310.1
Aroclor-1254	5	10.129	-0.061	181427	496.1	5	10.572	-0.004	145749	820.0
	Total Col1Ave (5 peaks):				168.7	Total Col2Ave (5 peaks):				320.0 RPD = 62*
	Corrected Ave (4 peaks):				86.8	Corrected Ave (4 peaks):				195.0 RPD = 77*
Aroclor-1260	1	11.052	-0.003	152069	450.4	1	11.660	-0.003	118434	468.3
Aroclor-1260	2	11.369	-0.003	162978	466.7	2	11.923	-0.003	295516	465.7
Aroclor-1260	3	11.740	-0.004	413722	450.9	3	12.442	-0.002	86318	510.8
Aroclor-1260	4	12.143	-0.006	227689	487.3	4	12.506	-0.003	201985	477.4
Aroclor-1260	5	12.252	-0.003	87995	460.0	NS	---			----
	Total Col1Ave (5 peaks):				463.1	Total Col2Ave (4 peaks):				480.5 RPD = 4
	Corrected Ave (4 peaks):				457.0	Corrected Ave (3 peaks):				470.5 RPD = 3
Aroclor-1262	1	10.830	-0.018	309695	998.4	1	11.207	-0.010	106255	291.7
Aroclor-1262	2	12.252	-0.010	87995	182.5	2	11.660	-0.010	118434	375.4
Aroclor-1262	3	12.326	-0.011	107314	208.4	3	12.442	-0.009	86318	248.0
Aroclor-1262	4	12.992	-0.012	101953	246.7	4	12.506	-0.014	201985	370.5
	Total Col1Ave (4 peaks):				409.0	Total Col2Ave (4 peaks):				321.4 RPD = 24
	Corrected Ave (3 peaks):				212.5	Corrected Ave (3 peaks):				303.4 RPD = 35
Aroclor-1268	1	12.252	-0.010	87995	67.8	1	12.442	-0.007	86318	95.4
Aroclor-1268	2	12.326	-0.009	107314	84.5	2	12.506	-0.011	201985	217.8
Aroclor-1268	3	12.730	0.014	49003	47.1	3	12.901	-0.009	4262	12.4
Aroclor-1268	4	13.494	-0.012	29081	9.2	4	13.715	-0.011	23015	9.3
	Total Col1Ave (4 peaks):				52.1	Total Col2Ave (4 peaks):				83.7 RPD = 46*

Corrected Ave (3 peaks): 41.4 Corrected Ave (3 peaks): 39.0 RPD = 6

Total PCB Area Col1 (5.931 - 13.803) = 4324051 Col1 Total PCB = 0.9 ppm*

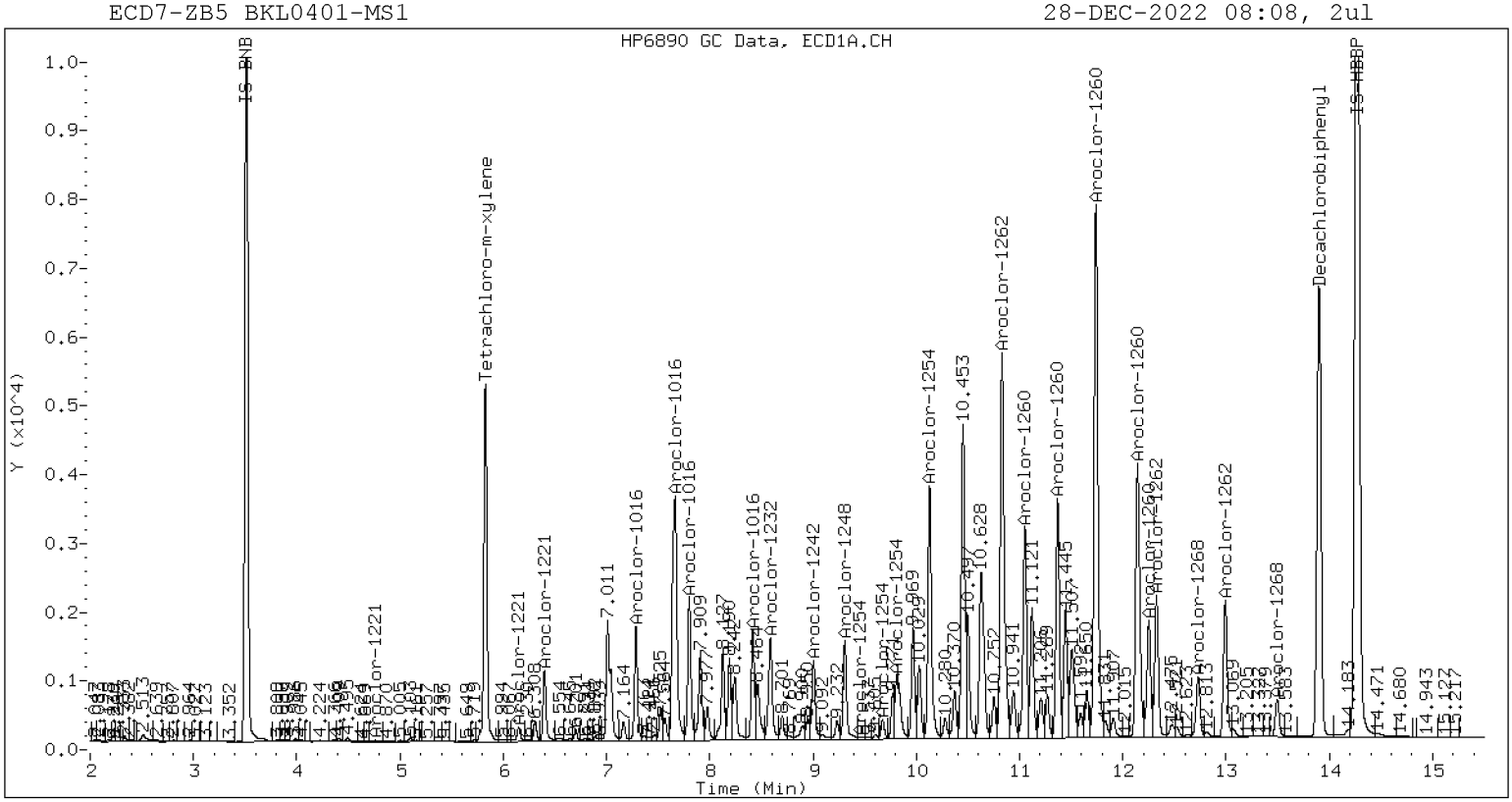
Total PCB Area Col2 (5.809 - 14.028) = 2796734 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

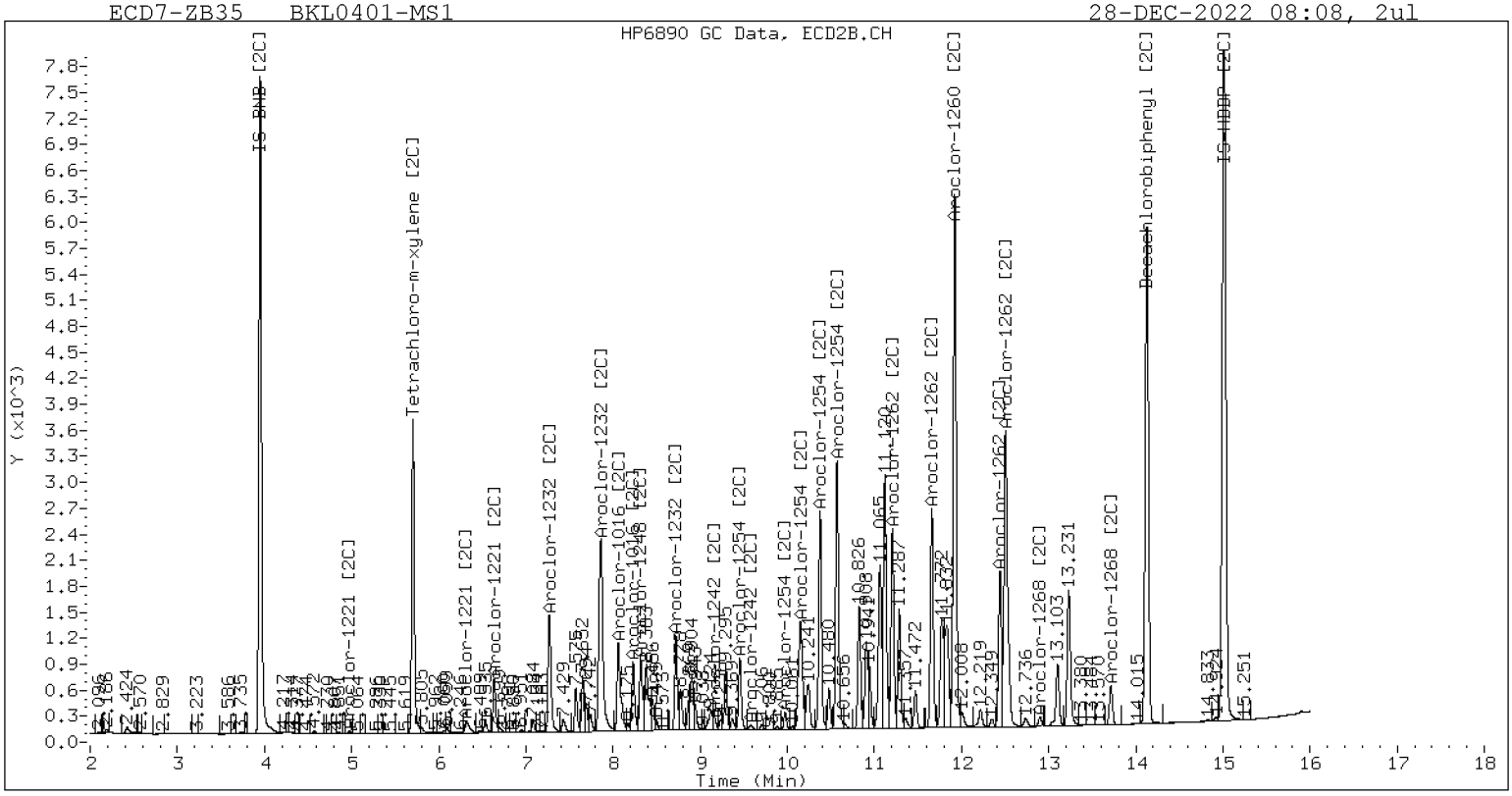
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0401-MS1 28-DEC-2022 08:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0401-MS1 28-DEC-2022 08:08, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292240ECD7.D
Data file 2: /221229.b/221229.b/12292240ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0401-MSD1
Client ID:
Injection Date: 29-DEC-2022 22:37
Report Date: 01/03/2023 11:18
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.003	237652	5.706	-0.002	165584	33.8	35.7	5.4	Tetrachloro-m-xylene
13.901	-0.002	381501	14.126	-0.003	313067	46.4	46.2	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	496379	10.9
Hexabromobiphenyl	798898	897086	12.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	338801	36.0
Hexabromobiphenyl	362541	477712	31.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.285	-0.004	69674	420.8	1	7.268	-0.003	69061	398.7
Aroclor-1016	2	7.665	-0.014	237699	444.6	2	7.862	-0.012	154472	413.5
Aroclor-1016	3	7.802	-0.010	93988	388.0	3	8.061	-0.009	61027	380.4
Aroclor-1016	4	8.417	-0.006	70431	456.1	4	8.232	-0.011	37434	443.7
Total Col1Ave (4 peaks):					427.4	Total Col2Ave (4 peaks):				409.1 RPD = 4
Corrected Ave (3 peaks):					417.8	Corrected Ave (3 peaks):				397.5 RPD = 5
Aroclor-1221	1	4.756	-0.004	534	13.0	1	4.978	-0.009	199	7.0
Aroclor-1221	2	6.150	-0.009	7943	109.9	2	6.315	-0.007	8111	148.8
Aroclor-1221	3	6.400	-0.009	43945	263.5	3	6.637	-0.008	30121	328.4
Total Col1Ave (3 peaks):					128.8	Total Col2Ave (3 peaks):				161.4 RPD = 22
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.756	-0.005	534	21.6	1	4.978	-0.011	199	12.1
Aroclor-1232	2	6.150	-0.010	7943	152.3	2	7.268	-0.008	69061	820.8
Aroclor-1232	3	7.665	-0.019	237699	1014.7	3	7.862	-0.015	154472	939.1
Aroclor-1232	4	8.589	-0.017	87152	876.9	4	8.723	-0.011	46564	1044.1
Total Col1Ave (4 peaks):					516.4	Total Col2Ave (4 peaks):				704.0 RPD = 31
Corrected Ave (3 peaks):					350.3	Corrected Ave (3 peaks):				590.7 RPD = 51*
Aroclor-1242	1	7.285	-0.005	69674	495.2	1	7.268	-0.003	69061	481.6
Aroclor-1242	2	7.665	-0.012	237699	532.1	2	7.862	-0.010	154472	507.5
Aroclor-1242	3	8.417	-0.006	70431	548.0	3	9.161	-0.009	8922	90.9
Aroclor-1242	4	9.005	-0.019	60523	226.8	4	9.584	-0.005	3463	29.3
Total Col1Ave (4 peaks):					450.5	Total Col2Ave (4 peaks):				277.3 RPD = 48*
Corrected Ave (3 peaks):					418.0	Corrected Ave (3 peaks):				200.6 RPD = 70*
Aroclor-1248	1	8.417	-0.006	70431	330.0	1	8.316	-0.005	44611	322.3
Aroclor-1248	2	8.589	-0.009	87152	319.8	2	8.723	-0.004	46564	319.9
Aroclor-1248	3	9.005	-0.013	60523	123.5	3	9.161	-0.012	8922	50.4
Aroclor-1248	4	9.309	-0.001	71831	299.1	4	9.584	-0.010	3463	16.7
Total Col1Ave (4 peaks):					268.1	Total Col2Ave (4 peaks):				177.3 RPD = 41*
Corrected Ave (3 peaks):					247.5	Corrected Ave (3 peaks):				129.0 RPD = 63*
Aroclor-1254	1	9.309	-0.005	71831	164.4	1	9.455	-0.004	39666	181.6
Aroclor-1254	2	---			0.0	2	9.975	-0.003	7984	45.5
Aroclor-1254	3	9.676	-0.010	12635	45.8	3	10.151	0.021	85814	227.3
Aroclor-1254	4	9.811	-0.010	43364	80.6	4	10.376	-0.001	119440	305.5
Aroclor-1254	5	10.129	-0.047	195214	529.3	5	10.571	-0.004	157719	836.4
Total Col1Ave (4 peaks):					205.0	Total Col2Ave (5 peaks):				319.3 RPD = 44*
Corrected Ave (3 peaks):					96.9	Corrected Ave (4 peaks):				190.0 RPD = 65*
Aroclor-1260	1	11.053	-0.003	159455	488.3	1	11.659	-0.003	120849	479.3
Aroclor-1260	2	11.369	-0.003	168521	499.0	2	11.921	-0.004	298007	471.0
Aroclor-1260	3	11.739	-0.006	441408	497.4	3	12.440	-0.004	92520	549.1
Aroclor-1260	4	12.142	-0.010	229534	507.9	4	12.504	-0.005	204224	484.2
Aroclor-1260	5	12.251	-0.005	90962	491.7	NS	---			----
Total Col1Ave (5 peaks):					496.9	Total Col2Ave (4 peaks):				495.9 RPD = 0
Corrected Ave (4 peaks):					494.1	Corrected Ave (3 peaks):				478.1 RPD = 3
Aroclor-1262	1	10.831	-0.017	319715	1065.7	1	11.205	-0.012	109451	301.3
Aroclor-1262	2	12.251	-0.011	90962	195.0	2	11.659	-0.011	120849	384.1
Aroclor-1262	3	12.325	-0.011	110243	221.3	3	12.440	-0.011	92520	266.6
Aroclor-1262	4	12.992	-0.013	105790	264.6	4	12.504	-0.015	204224	375.7
Total Col1Ave (4 peaks):					436.7	Total Col2Ave (4 peaks):				331.9 RPD = 27
Corrected Ave (3 peaks):					227.0	Corrected Ave (3 peaks):				314.5 RPD = 32
Aroclor-1268	1	12.251	-0.011	90962	72.5	1	12.440	-0.009	92520	102.6
Aroclor-1268	2	12.325	-0.010	110243	89.8	2	12.504	-0.013	204224	220.9
Aroclor-1268	3	12.729	0.013	50327	50.0	3	12.899	-0.011	4096	11.9
Aroclor-1268	4	13.495	-0.011	33783	11.0	4	13.714	-0.013	24760	10.0
Total Col1Ave (4 peaks):					55.8	Total Col2Ave (4 peaks):				86.4 RPD = 43*

Corrected Ave (3 peaks): 44.5 Corrected Ave (3 peaks): 41.5 RPD = 7

Total PCB Area Col1 (5.932 - 13.803) = 4436946 Col1 Total PCB = 0.9 ppm*

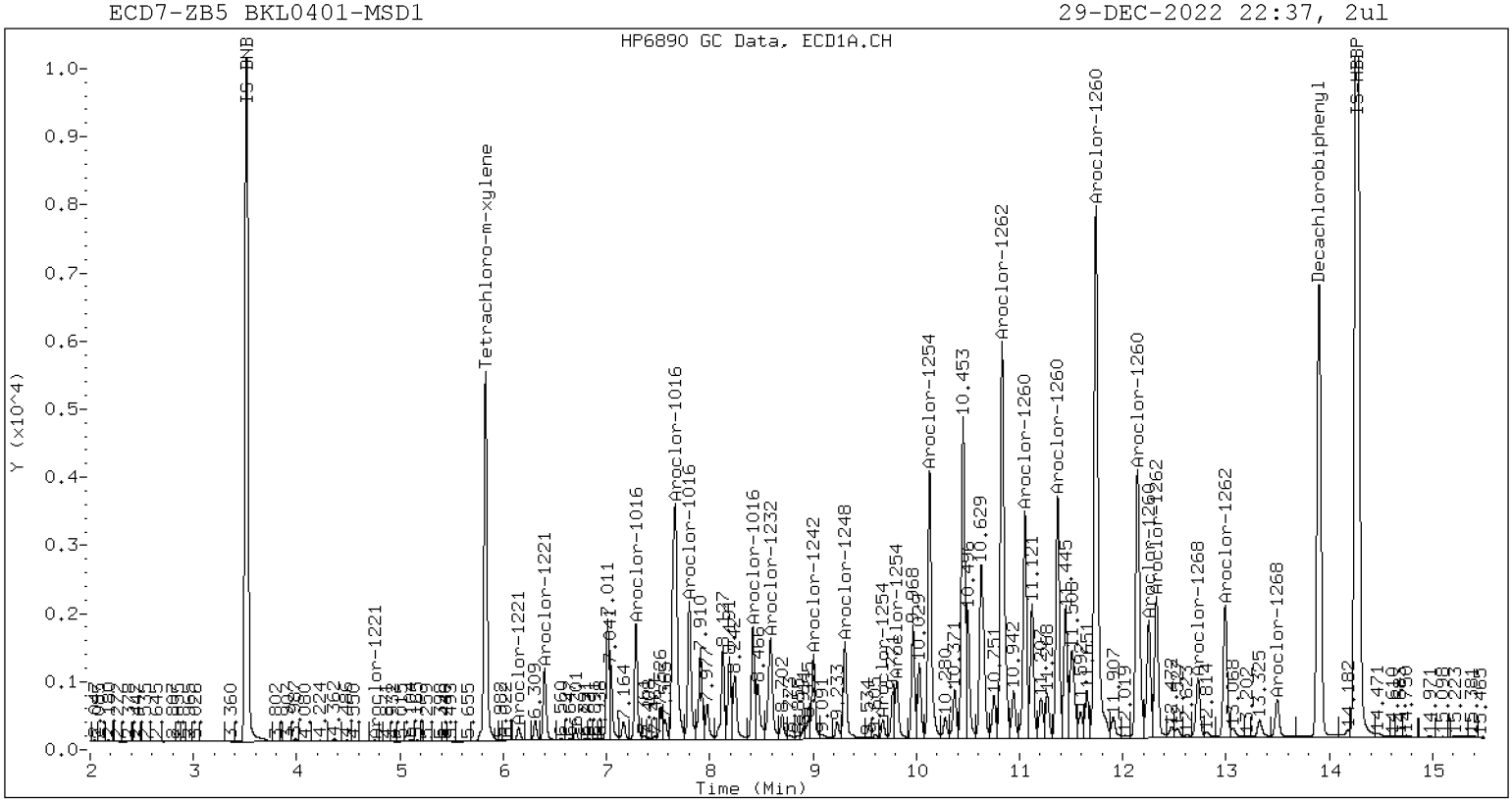
Total PCB Area Col2 (5.808 - 14.029) = 2850128 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

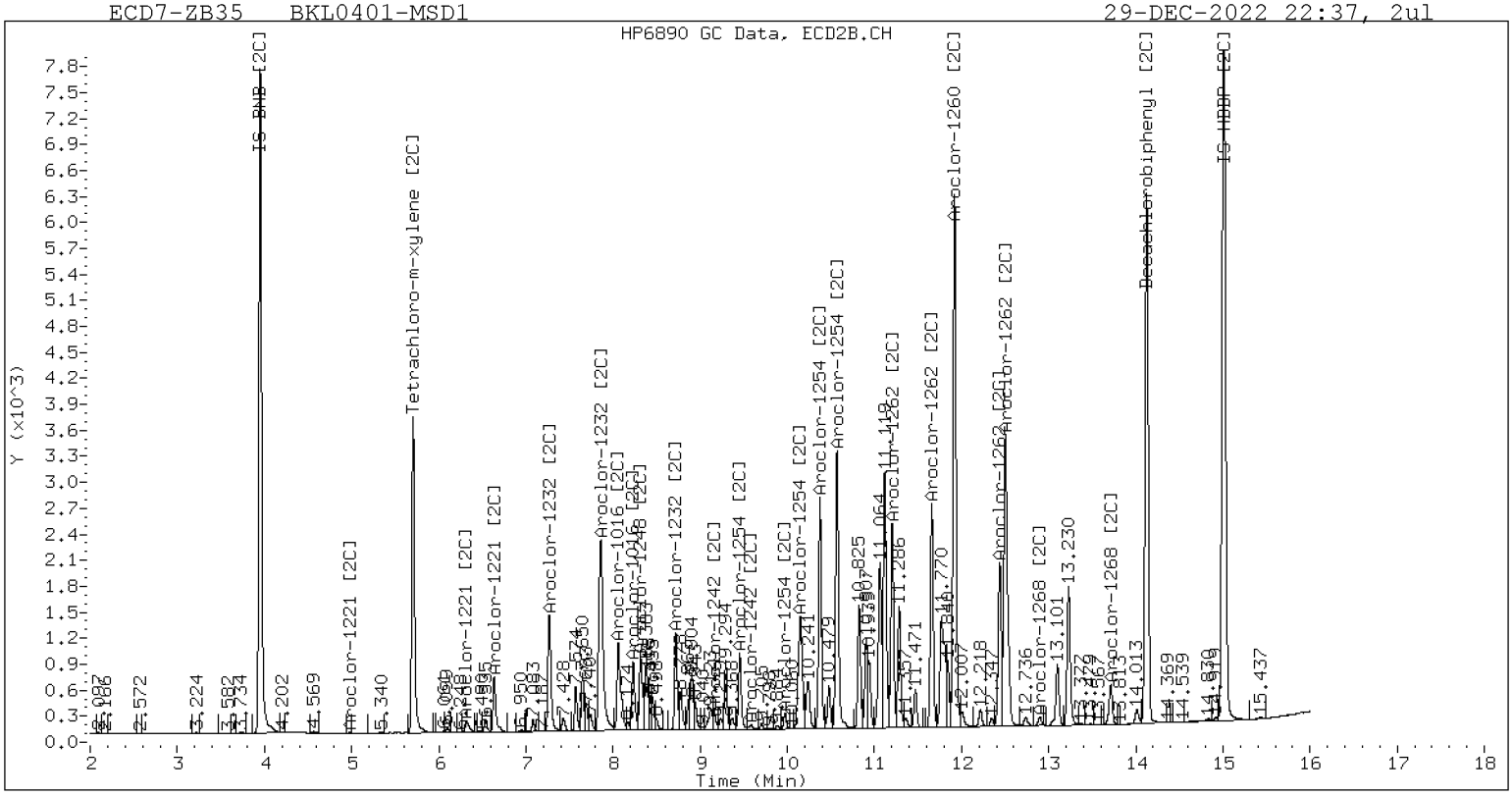
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0401-MSD1 29-DEC-2022 22:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0401-MSD1 29-DEC-2022 22:37, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/30/22 15:54
Batch:	BKL0402	Laboratory ID:	BKL0402-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	13.98 g / 2.5 mL	Source Sample:	LDW22-IT790K

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	85.8		85.0	56 - 120
Aroclor 1260	101	ND	U	85.8		85.2	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/30/22 16:15
Batch:	BKL0402	Laboratory ID:	BKL0402-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	13.97 g / 2.5 mL	Source Sample:	LDW22-IT790K

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	90.4		89.5	5.24	30	56 - 120
Aroclor 1260	101	85.8		85.1	0.0227	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302214ECD7.D
Data file 2: /221230.b/221230.b/12302214ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0402-MS1
Client ID:
Injection Date: 30-DEC-2022 15:54
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.004	249529	5.706	-0.004	154887	34.0	33.8	0.6	Tetrachloro-m-xylene
13.901	-0.001	479423	14.128	-0.000	376227	43.2	45.3	4.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	517550	15.6
Hexabromobiphenyl	798898	1210214	51.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	334026	34.1
Hexabromobiphenyl	362541	584886	61.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.286	-0.004	73231	424.2	1	7.269	-0.003	69590	407.5
Aroclor-1016	2	7.666	-0.011	243140	436.2	2	7.864	-0.008	158555	430.5
Aroclor-1016	3	7.804	-0.008	100617	398.4	3	8.063	-0.008	63778	403.2
Aroclor-1016	4	8.417	-0.006	73813	458.4	4	8.234	-0.008	37624	452.3
Total Col1Ave (4 peaks):		429.3				Total Col2Ave (4 peaks):		423.4	RPD = 1	
Corrected Ave (3 peaks):		419.6				Corrected Ave (3 peaks):		413.7	RPD = 1	
Aroclor-1221	1	4.756	-0.004	400	9.3	1	4.978	-0.009	280	9.9
Aroclor-1221	2	6.150	-0.008	9730	129.1	2	6.316	-0.005	7774	144.7
Aroclor-1221	3	6.402	-0.007	48157	277.0	3	6.638	-0.007	30911	341.9
Total Col1Ave (3 peaks):		138.5				Total Col2Ave (3 peaks):		165.5	RPD = 18	
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.756	-0.005	400	15.5	1	4.978	-0.011	280	17.2
Aroclor-1232	2	6.150	-0.009	9730	178.9	2	7.269	-0.008	69590	838.9
Aroclor-1232	3	7.666	-0.017	243140	995.4	3	7.864	-0.012	158555	977.7
Aroclor-1232	4	8.590	-0.015	96030	926.7	4	8.724	-0.010	48373	1100.2
Total Col1Ave (4 peaks):		529.1				Total Col2Ave (4 peaks):		733.5	RPD = 32	
Corrected Ave (3 peaks):		373.7				Corrected Ave (3 peaks):		611.3	RPD = 48*	
Aroclor-1242	1	7.286	-0.003	73231	499.2	1	7.269	-0.003	69590	492.3
Aroclor-1242	2	7.666	-0.010	243140	522.0	2	7.864	-0.007	158555	528.3
Aroclor-1242	3	8.417	-0.004	73813	550.8	3	9.164	-0.006	9076	93.7
Aroclor-1242	4	9.006	-0.016	96296	346.1	4	9.588	-0.001	4624	39.7
Total Col1Ave (4 peaks):		479.5				Total Col2Ave (4 peaks):		288.5	RPD = 50*	
Corrected Ave (3 peaks):		455.8				Corrected Ave (3 peaks):		208.6	RPD = 74*	
Aroclor-1248	1	8.417	-0.006	73813	331.7	1	8.318	-0.004	47133	345.4
Aroclor-1248	2	8.590	-0.009	96030	338.0	2	8.724	-0.004	48373	337.0
Aroclor-1248	3	9.006	-0.013	96296	188.4	3	9.164	-0.010	9076	52.0
Aroclor-1248	4	9.311	0.000	78727	314.4	4	9.588	-0.008	4624	22.6
Total Col1Ave (4 peaks):		293.1				Total Col2Ave (4 peaks):		189.3	RPD = 43*	
Corrected Ave (3 peaks):		278.2				Corrected Ave (3 peaks):		137.2	RPD = 68*	
Aroclor-1254	1	9.311	-0.011	78727	172.8	1	9.457	-0.003	43063	200.0
Aroclor-1254	2	---			0.0	2	9.977	-0.001	9812	56.7
Aroclor-1254	3	9.677	-0.017	15557	54.1	3	10.153	0.024	99294	266.8
Aroclor-1254	4	9.814	-0.017	46229	82.4	4	10.378	0.002	129935	337.1
Aroclor-1254	5	10.129	-0.061	217892	566.6	5	10.573	-0.002	171773	924.0
Total Col1Ave (4 peaks):		219.0				Total Col2Ave (5 peaks):		356.9	RPD = 48*	
Corrected Ave (3 peaks):		103.1				Corrected Ave (4 peaks):		215.1	RPD = 70*	
Aroclor-1260	1	11.053	-0.004	183803	417.2	1	11.659	-0.003	137251	444.6
Aroclor-1260	2	11.370	-0.002	194434	426.7	2	11.922	-0.002	339186	437.8
Aroclor-1260	3	11.741	-0.005	495808	414.2	3	12.442	-0.001	96655	468.5
Aroclor-1260	4	12.146	-0.001	272335	446.7	4	12.507	-0.001	236779	458.5
Aroclor-1260	5	12.253	-0.002	110185	441.5	NS	---			----
Total Col1Ave (5 peaks):		429.3				Total Col2Ave (4 peaks):		452.3	RPD = 5	
Corrected Ave (4 peaks):		424.9				Corrected Ave (3 peaks):		447.0	RPD = 5	
Aroclor-1262	1	10.833	-0.016	363049	897.1	1	11.206	-0.011	124624	280.2
Aroclor-1262	2	12.253	-0.009	110185	175.1	2	11.659	-0.011	137251	356.3
Aroclor-1262	3	12.328	-0.008	132938	197.8	3	12.442	-0.009	96655	227.5
Aroclor-1262	4	12.995	-0.010	125877	233.4	4	12.507	-0.013	236779	355.8
Total Col1Ave (4 peaks):		375.9				Total Col2Ave (4 peaks):		305.0	RPD = 21	
Corrected Ave (3 peaks):		202.1				Corrected Ave (3 peaks):		287.8	RPD = 35	
Aroclor-1268	1	12.253	-0.009	110185	65.1	1	12.442	-0.008	96655	87.5
Aroclor-1268	2	12.328	-0.007	132938	80.3	2	12.507	-0.010	236779	209.2
Aroclor-1268	3	12.731	0.015	59112	43.5	3	12.900	-0.010	4789	11.4
Aroclor-1268	4	13.496	-0.009	37651	9.1	4	13.716	-0.010	27112	9.0
Total Col1Ave (4 peaks):		49.5				Total Col2Ave (4 peaks):		79.3	RPD = 46*	

Corrected Ave (3 peaks): 39.2 Corrected Ave (3 peaks): 36.0 RPD = 9

Total PCB Area Col1 (5.933 - 13.802) = 4981799 Col1 Total PCB = 1.0 ppm*

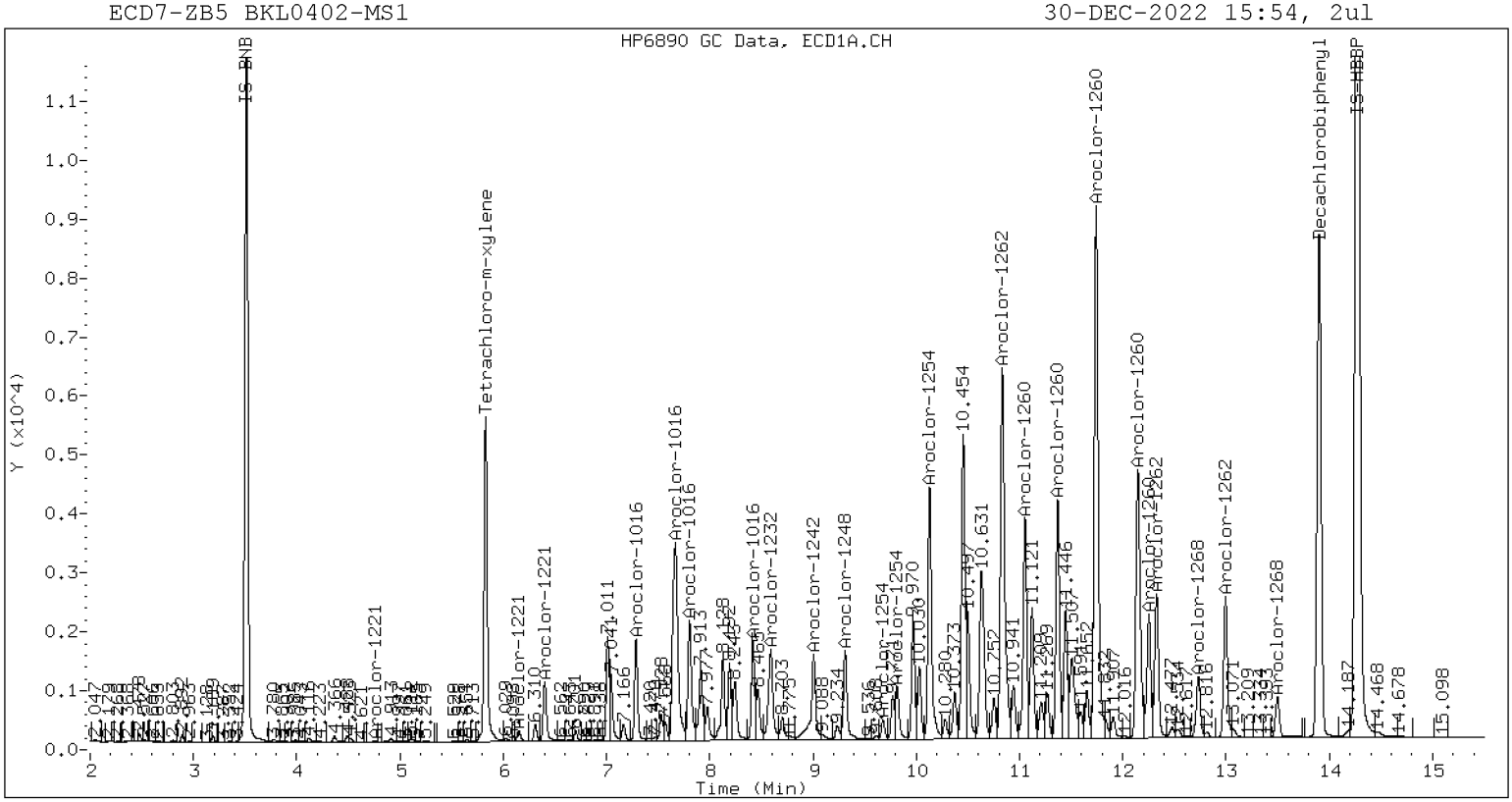
Total PCB Area Col2 (5.810 - 14.028) = 3137989 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

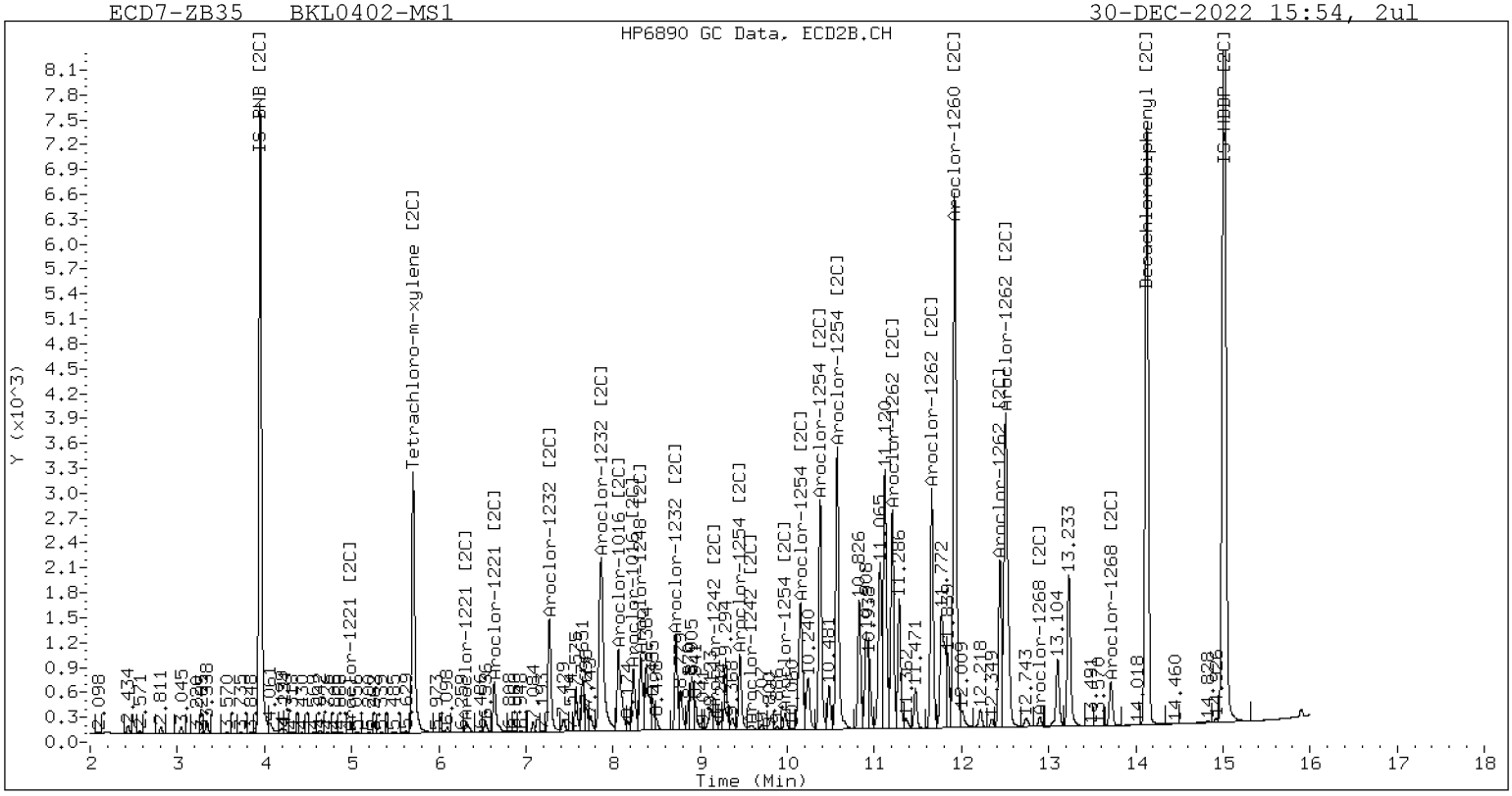
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0402-MS1 30-DEC-2022 15:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0402-MS1 30-DEC-2022 15:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302215ECD7.D
Data file 2: /221230.b/221230.b/12302215ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0402-MSD1
Client ID:
Injection Date: 30-DEC-2022 16:15
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.002	260448	5.708	-0.001	162042	36.8	35.4	4.0	Tetrachloro-m-xylene
13.900	-0.002	493101	14.127	-0.001	372532	43.7	45.5	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	498930	11.5
Hexabromobiphenyl	798898	1232268	54.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	334096	34.1
Hexabromobiphenyl	362541	577091	59.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	-0.003	73953	444.3	1	7.270	-0.002	70881	414.9
Aroclor-1016	2	7.667	-0.011	250340	465.9	2	7.864	-0.008	162229	440.4
Aroclor-1016	3	7.804	-0.009	101834	418.2	3	8.063	-0.008	65216	412.2
Aroclor-1016	4	8.418	-0.006	74486	479.8	4	8.234	-0.009	39166	470.8
Total Col1Ave (4 peaks):		452.1				Total Col2Ave (4 peaks):		434.6	RPD = 4	
Corrected Ave (3 peaks):		442.8				Corrected Ave (3 peaks):		422.5	RPD = 5	
Aroclor-1221	1	4.757	-0.003	408	9.9	1	4.986	-0.001	220	7.8
Aroclor-1221	2	6.152	-0.006	10050	138.3	2	6.317	-0.004	7713	143.5
Aroclor-1221	3	6.403	-0.006	48695	290.5	3	6.640	-0.006	30769	340.2
Total Col1Ave (3 peaks):		146.2				Total Col2Ave (3 peaks):		163.9	RPD = 11	
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.757	-0.004	408	16.4	1	4.986	-0.003	220	13.5
Aroclor-1232	2	6.152	-0.007	10050	191.7	2	7.270	-0.007	70881	854.3
Aroclor-1232	3	7.667	-0.017	250340	1063.2	3	7.864	-0.012	162229	1000.2
Aroclor-1232	4	8.590	-0.016	97089	971.8	4	8.723	-0.011	49671	1129.5
Total Col1Ave (4 peaks):		560.8				Total Col2Ave (4 peaks):		749.4	RPD = 29	
Corrected Ave (3 peaks):		393.3				Corrected Ave (3 peaks):		622.7	RPD = 45*	
Aroclor-1242	1	7.287	-0.003	73953	522.9	1	7.270	-0.002	70881	501.3
Aroclor-1242	2	7.667	-0.010	250340	557.5	2	7.864	-0.007	162229	540.5
Aroclor-1242	3	8.418	-0.004	74486	576.6	3	9.162	-0.007	9146	94.4
Aroclor-1242	4	9.005	-0.016	85107	317.3	4	9.587	-0.003	4615	39.7
Total Col1Ave (4 peaks):		493.6				Total Col2Ave (4 peaks):		294.0	RPD = 51*	
Corrected Ave (3 peaks):		465.9				Corrected Ave (3 peaks):		211.8	RPD = 75*	
Aroclor-1248	1	8.418	-0.006	74486	347.2	1	8.318	-0.004	47856	350.6
Aroclor-1248	2	8.590	-0.010	97089	354.5	2	8.723	-0.005	49671	346.0
Aroclor-1248	3	9.005	-0.013	85107	172.7	3	9.162	-0.011	9146	52.4
Aroclor-1248	4	9.309	-0.001	78519	325.3	4	9.587	-0.009	4615	22.5
Total Col1Ave (4 peaks):		299.9				Total Col2Ave (4 peaks):		192.9	RPD = 43*	
Corrected Ave (3 peaks):		281.7				Corrected Ave (3 peaks):		140.3	RPD = 67*	
Aroclor-1254	1	9.309	-0.012	78519	178.7	1	9.456	-0.004	42787	198.6
Aroclor-1254	2	---			0.0	2	9.976	-0.002	9558	55.2
Aroclor-1254	3	9.676	-0.018	15594	56.2	3	10.153	0.024	98317	264.1
Aroclor-1254	4	9.813	-0.018	45840	84.8	4	10.377	0.001	129072	334.8
Aroclor-1254	5	10.129	-0.060	218788	590.2	5	10.572	-0.003	171006	919.7
Total Col1Ave (4 peaks):		227.5				Total Col2Ave (5 peaks):		354.5	RPD = 44*	
Corrected Ave (3 peaks):		106.6				Corrected Ave (4 peaks):		213.2	RPD = 67*	
Aroclor-1260	1	11.052	-0.004	185847	414.3	1	11.659	-0.003	137313	450.8
Aroclor-1260	2	11.369	-0.003	197364	425.4	2	11.922	-0.003	337026	440.9
Aroclor-1260	3	11.741	-0.006	504373	413.8	3	12.442	-0.002	97534	479.2
Aroclor-1260	4	12.144	-0.003	280736	452.2	4	12.506	-0.001	235071	461.3
Aroclor-1260	5	12.251	-0.004	111692	439.5	NS	---			----
Total Col1Ave (5 peaks):		429.1				Total Col2Ave (4 peaks):		458.0	RPD = 7	
Corrected Ave (4 peaks):		423.3				Corrected Ave (3 peaks):		451.0	RPD = 6	
Aroclor-1262	1	10.831	-0.017	367762	892.4	1	11.206	-0.011	123856	282.3
Aroclor-1262	2	12.251	-0.011	111692	174.3	2	11.659	-0.011	137313	361.3
Aroclor-1262	3	12.326	-0.010	134989	197.3	3	12.442	-0.010	97534	232.7
Aroclor-1262	4	12.994	-0.011	129517	235.9	4	12.506	-0.013	235071	358.0
Total Col1Ave (4 peaks):		375.0				Total Col2Ave (4 peaks):		308.6	RPD = 19	
Corrected Ave (3 peaks):		202.5				Corrected Ave (3 peaks):		291.0	RPD = 36	
Aroclor-1268	1	12.251	-0.011	111692	64.8	1	12.442	-0.008	97534	89.5
Aroclor-1268	2	12.326	-0.009	134989	80.0	2	12.506	-0.011	235071	210.5
Aroclor-1268	3	12.730	0.013	59335	42.9	3	12.899	-0.011	4925	11.9
Aroclor-1268	4	13.495	-0.010	37281	8.8	4	13.714	-0.012	27463	9.2
Total Col1Ave (4 peaks):		49.1				Total Col2Ave (4 peaks):		80.3	RPD = 48*	

Corrected Ave (3 peaks): 38.8 Corrected Ave (3 peaks): 36.9 RPD = 5

Total PCB Area Col1 (5.933 - 13.802) = 5050206 Col1 Total PCB = 1.1 ppm*

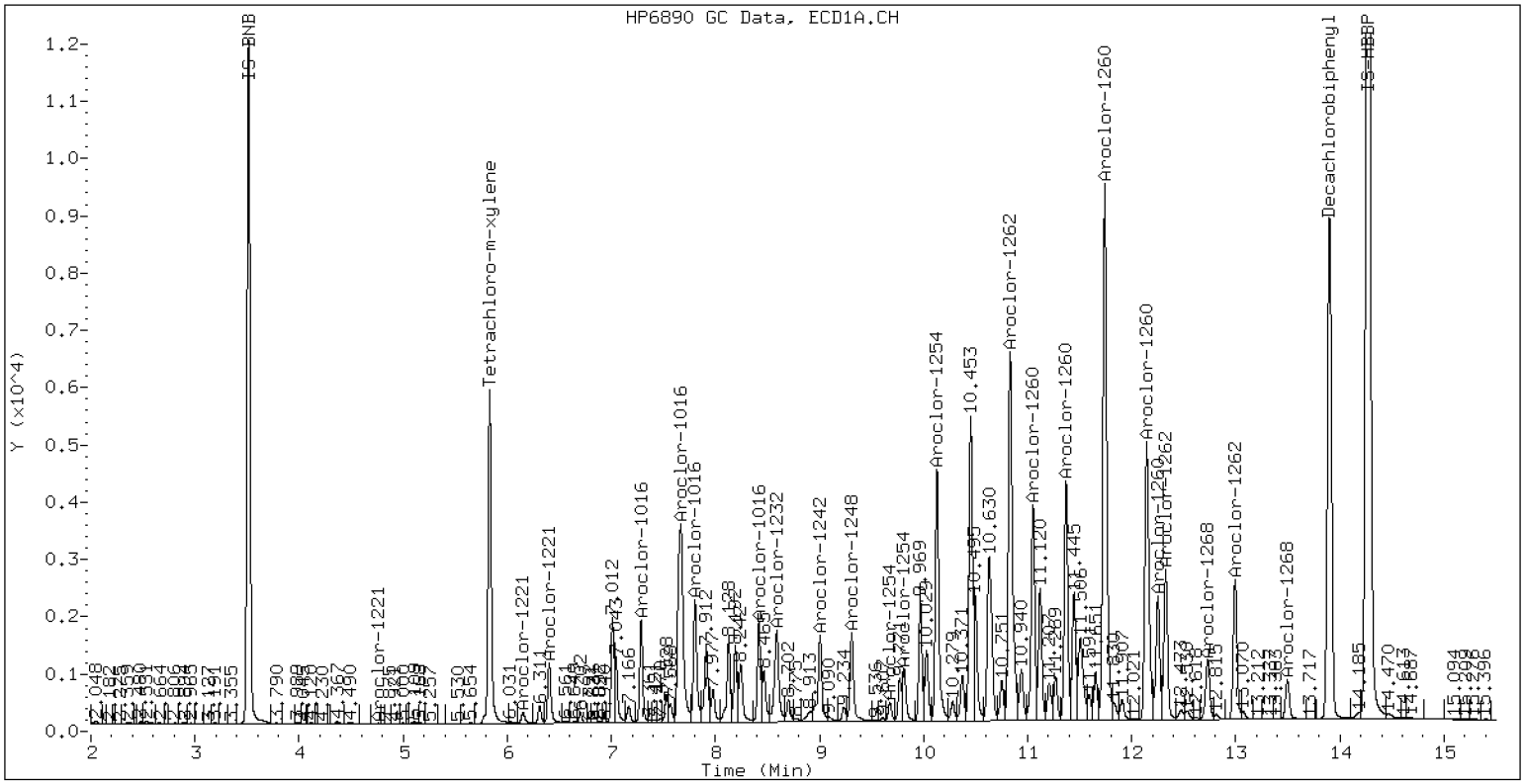
Total PCB Area Col2 (5.810 - 14.028) = 3148724 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

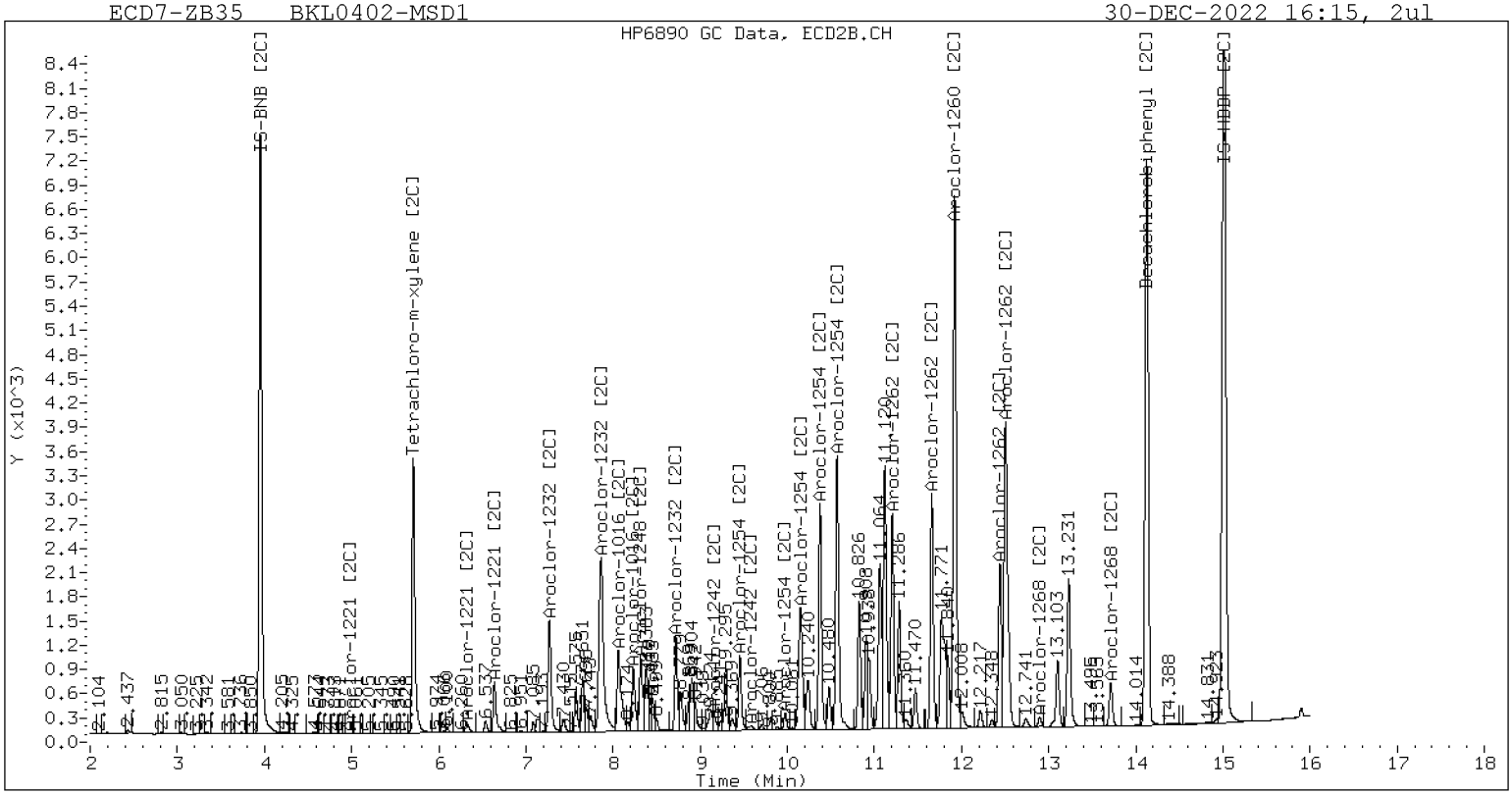
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0402-MSD1 30-DEC-2022 16:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0402-MSD1 30-DEC-2022 16:15, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/27/22 20:52
Batch:	BKL0404	Laboratory ID:	BKL0404-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	15.64 g / 2.5 mL	Source Sample:	LDW22-SC787K

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	91.1		90.3	56 - 120
Aroclor 1260	101	ND	U	103		102	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/27/22 21:13
Batch:	BKL0404	Laboratory ID:	BKL0404-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	15.64 g / 2.5 mL	Source Sample:	LDW22-SC787K

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	93.5		92.6	2.63	30	56 - 120
Aroclor 1260	101	99.4		98.6	3.96	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272213ECD7.D
Data file 2: /221227.b/221227.b/12272213ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0404-MS1
Client ID:
Injection Date: 27-DEC-2022 20:52
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	241595	5.705	-0.004	154140	37.7	39.7	5.2	Tetrachloro-m-xylene
13.899	-0.005	331974	14.126	-0.003	275405	48.4	47.3	2.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	452648	1.1
Hexabromobiphenyl	798898	748119	-6.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	283410	13.8
Hexabromobiphenyl	362541	410395	13.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.284	-0.005	68052	450.7	1	7.268	-0.004	69112	477.0
Aroclor-1016	2	7.661	-0.011	231639	475.2	2	7.859	-0.012	150414	481.3
Aroclor-1016	3	7.799	-0.011	88287	399.7	3	8.059	-0.012	59197	441.1
Aroclor-1016	4	8.414	-0.008	69840	495.9	4	8.229	-0.012	35752	506.6
Total Col1Ave (4 peaks):					455.4	Total Col2Ave (4 peaks):				476.5 RPD = 5
Corrected Ave (3 peaks):					441.8	Corrected Ave (3 peaks):				466.4 RPD = 5
Aroclor-1221	1	4.757	-0.003	1726	46.1	1	4.982	-0.005	539	22.5
Aroclor-1221	2	6.149	-0.010	11358	172.3	2	6.315	-0.006	9191	201.6
Aroclor-1221	3	6.399	-0.010	46503	305.8	3	6.636	-0.009	29018	378.3
Total Col1Ave (3 peaks):					174.7	Total Col2Ave (3 peaks):				200.8 RPD = 14
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.757	-0.004	1726	76.6	1	4.982	-0.007	539	39.1
Aroclor-1232	2	6.149	-0.011	11358	238.8	2	7.268	-0.009	69112	982.0
Aroclor-1232	3	7.661	-0.022	231639	1084.3	3	7.859	-0.017	150414	1093.2
Aroclor-1232	4	8.584	-0.021	76975	849.3	4	8.722	-0.012	48128	1290.1
Total Col1Ave (4 peaks):					562.3	Total Col2Ave (4 peaks):				851.1 RPD = 41*
Corrected Ave (3 peaks):					388.2	Corrected Ave (3 peaks):				704.8 RPD = 58*
Aroclor-1242	1	7.284	-0.011	68052	530.4	1	7.268	-0.003	69112	576.2
Aroclor-1242	2	7.661	-0.024	231639	568.6	2	7.859	-0.011	150414	590.7
Aroclor-1242	3	8.414	-0.015	69840	595.9	3	9.154	-0.016	10511	128.0
Aroclor-1242	4	9.003	-0.028	61072	250.9	4	9.575	-0.014	8021	81.2
Total Col1Ave (4 peaks):					486.5	Total Col2Ave (4 peaks):				344.0 RPD = 34
Corrected Ave (3 peaks):					450.0	Corrected Ave (3 peaks):				261.8 RPD = 53*
Aroclor-1248	1	8.414	-0.013	69840	358.9	1	8.316	-0.006	44836	387.3
Aroclor-1248	2	8.584	-0.020	76975	309.8	2	8.722	-0.005	48128	395.2
Aroclor-1248	3	9.003	-0.020	61072	136.6	3	9.154	-0.018	10511	71.0
Aroclor-1248	4	9.304	-0.007	61843	282.4	4	9.575	-0.018	8021	46.1
Total Col1Ave (4 peaks):					271.9	Total Col2Ave (4 peaks):				224.9 RPD = 19
Corrected Ave (3 peaks):					242.9	Corrected Ave (3 peaks):				168.1 RPD = 36
Aroclor-1254	1	9.304	-0.017	61843	155.2	1	9.454	-0.007	37668	206.1
Aroclor-1254	2	9.378	-0.024	4688	30.2	2	9.972	-0.006	9465	64.4
Aroclor-1254	3	9.670	-0.024	14904	59.2	3	10.150	0.020	70529	223.3
Aroclor-1254	4	9.805	-0.026	47649	97.1	4	10.376	-0.003	110994	339.4
Aroclor-1254	5	10.126	-0.063	168916	502.2	5	10.570	-0.006	136262	863.9
Total Col1Ave (5 peaks):					168.8	Total Col2Ave (5 peaks):				339.4 RPD = 67*
Corrected Ave (4 peaks):					85.4	Corrected Ave (4 peaks):				208.3 RPD = 84*
Aroclor-1260	1	11.049	-0.006	137028	503.2	1	11.657	-0.006	106421	491.3
Aroclor-1260	2	11.365	-0.007	145996	518.4	2	11.918	-0.007	268199	493.4
Aroclor-1260	3	11.736	-0.008	374022	505.4	3	12.439	-0.005	79113	546.5
Aroclor-1260	4	12.137	-0.012	204754	543.3	4	12.502	-0.007	179979	496.7
Aroclor-1260	5	12.249	-0.007	79267	513.8	NS	---			----
Total Col1Ave (5 peaks):					516.8	Total Col2Ave (4 peaks):				507.0 RPD = 2
Corrected Ave (4 peaks):					510.2	Corrected Ave (3 peaks):				493.8 RPD = 3
Aroclor-1262	1	10.825	-0.023	281479	1125.1	1	11.204	-0.013	94547	303.0
Aroclor-1262	2	12.249	-0.014	79267	203.8	2	11.657	-0.013	106421	393.8
Aroclor-1262	3	12.322	-0.015	95089	228.9	3	12.439	-0.012	79113	265.4
Aroclor-1262	4	12.989	-0.016	88848	266.5	4	12.502	-0.017	179979	385.4
Total Col1Ave (4 peaks):					456.1	Total Col2Ave (4 peaks):				336.9 RPD = 30
Corrected Ave (3 peaks):					233.1	Corrected Ave (3 peaks):				317.9 RPD = 31
Aroclor-1268	1	12.249	-0.014	79267	75.7	1	12.439	-0.010	79113	102.1
Aroclor-1268	2	12.322	-0.013	95089	92.9	2	12.502	-0.015	179979	226.6
Aroclor-1268	3	12.725	0.009	46633	55.6	3	12.898	-0.012	4541	15.4
Aroclor-1268	4	13.491	-0.014	24880	9.7	4	13.712	-0.014	20759	9.8
Total Col1Ave (4 peaks):					58.5	Total Col2Ave (4 peaks):				88.5 RPD = 41*

Corrected Ave (3 peaks): 47.0 Corrected Ave (3 peaks): 42.4 RPD = 10

Total PCB Area Col1 (5.931 - 13.803) = 4004816 Col1 Total PCB = 0.9 ppm*

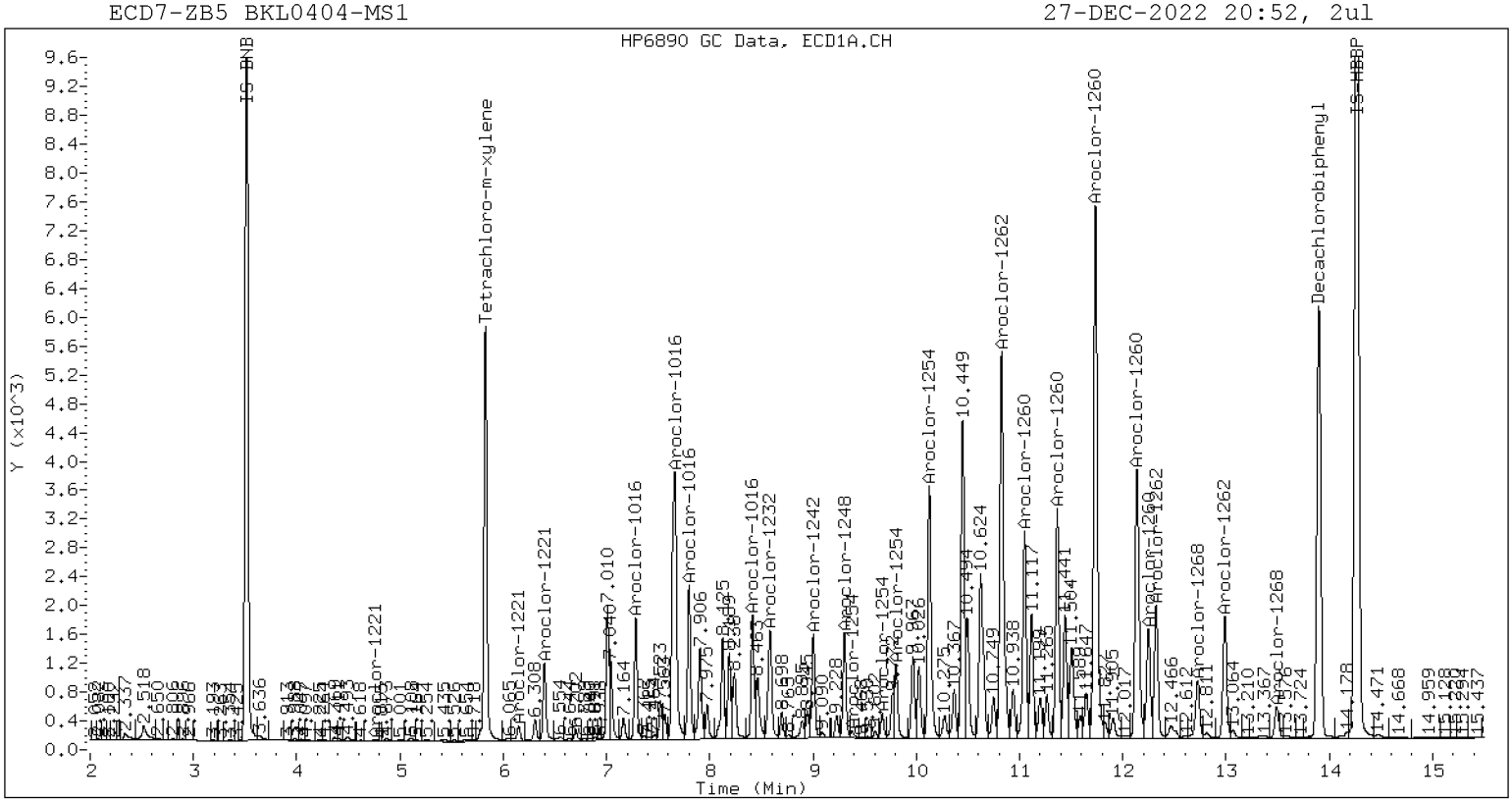
Total PCB Area Col2 (5.809 - 14.028) = 2663200 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

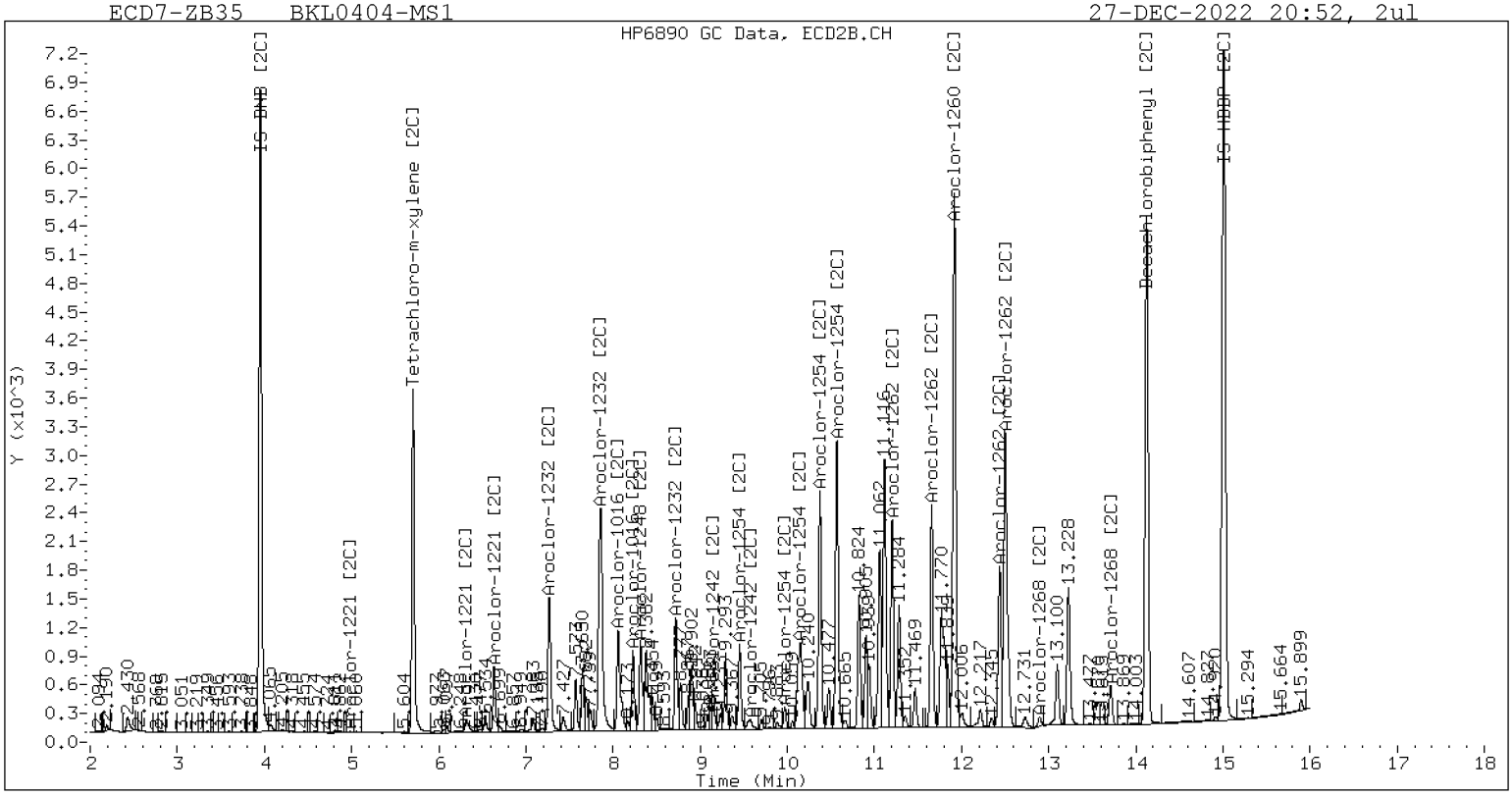
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0404-MS1 27-DEC-2022 20:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0404-MS1 27-DEC-2022 20:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272214ECD7.D
Data file 2: /221227.b/221227.b/12272214ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0404-MSD1
Client ID:
Injection Date: 27-DEC-2022 21:13
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	250223	5.705	-0.004	156197	36.6	37.4	2.1	Tetrachloro-m-xylene
13.899	-0.004	366484	14.127	-0.001	291654	46.6	46.3	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482039	7.7
Hexabromobiphenyl	798898	858165	7.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	304541	22.3
Hexabromobiphenyl	362541	443270	22.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.285	-0.004	76184	473.8	1	7.268	-0.004	71070	456.4
Aroclor-1016	2	7.663	-0.008	248332	478.4	2	7.860	-0.011	156354	465.6
Aroclor-1016	3	7.800	-0.009	97458	414.3	3	8.060	-0.011	61493	426.4
Aroclor-1016	4	8.415	-0.008	75521	503.6	4	8.230	-0.012	37472	494.1
Total Col1Ave (4 peaks):					467.5	Total Col2Ave (4 peaks):				460.6 RPD = 1
Corrected Ave (3 peaks):					455.5	Corrected Ave (3 peaks):				449.5 RPD = 1
Aroclor-1221	1	4.756	-0.004	1377	34.6	1	4.977	-0.010	582	22.6
Aroclor-1221	2	6.149	-0.010	11663	166.1	2	6.315	-0.007	10154	207.3
Aroclor-1221	3	6.400	-0.009	48619	300.2	3	6.637	-0.008	31816	386.0
Total Col1Ave (3 peaks):					167.0	Total Col2Ave (3 peaks):				205.3 RPD = 21
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.756	-0.005	1377	57.4	1	4.977	-0.013	582	39.3
Aroclor-1232	2	6.149	-0.010	11663	230.2	2	7.268	-0.009	71070	939.7
Aroclor-1232	3	7.663	-0.020	248332	1091.6	3	7.860	-0.016	156354	1057.5
Aroclor-1232	4	8.587	-0.019	87629	907.9	4	8.722	-0.012	49251	1228.6
Total Col1Ave (4 peaks):					571.8	Total Col2Ave (4 peaks):				816.3 RPD = 35
Corrected Ave (3 peaks):					398.5	Corrected Ave (3 peaks):				678.9 RPD = 52*
Aroclor-1242	1	7.285	-0.010	76184	557.6	1	7.268	-0.003	71070	551.4
Aroclor-1242	2	7.663	-0.022	248332	572.4	2	7.860	-0.010	156354	571.4
Aroclor-1242	3	8.415	-0.015	75521	605.1	3	9.158	-0.012	10515	119.1
Aroclor-1242	4	9.003	-0.028	68819	265.5	4	9.577	-0.012	7137	67.3
Total Col1Ave (4 peaks):					500.2	Total Col2Ave (4 peaks):				327.3 RPD = 42*
Corrected Ave (3 peaks):					465.2	Corrected Ave (3 peaks):				245.9 RPD = 62*
Aroclor-1248	1	8.415	-0.012	75521	364.4	1	8.316	-0.005	46618	374.7
Aroclor-1248	2	8.587	-0.018	87629	331.1	2	8.722	-0.005	49251	376.4
Aroclor-1248	3	9.003	-0.019	68819	144.6	3	9.158	-0.015	10515	66.1
Aroclor-1248	4	9.307	-0.005	70118	300.7	4	9.577	-0.016	7137	38.2
Total Col1Ave (4 peaks):					285.2	Total Col2Ave (4 peaks):				213.8 RPD = 29
Corrected Ave (3 peaks):					258.8	Corrected Ave (3 peaks):				159.7 RPD = 47*
Aroclor-1254	1	9.307	-0.014	70118	165.2	1	9.454	-0.007	39447	200.9
Aroclor-1254	2	9.379	-0.022	6988	42.3	2	9.973	-0.005	9535	60.4
Aroclor-1254	3	9.672	-0.022	17347	64.7	3	10.150	0.020	75702	223.1
Aroclor-1254	4	9.807	-0.024	51633	98.8	4	10.376	-0.003	115906	329.8
Aroclor-1254	5	10.127	-0.062	188620	526.6	5	10.570	-0.006	144177	850.6
Total Col1Ave (5 peaks):					179.5	Total Col2Ave (5 peaks):				333.0 RPD = 60*
Corrected Ave (4 peaks):					92.8	Corrected Ave (4 peaks):				203.6 RPD = 75*
Aroclor-1260	1	11.051	-0.005	152651	488.7	1	11.659	-0.004	114076	487.5
Aroclor-1260	2	11.367	-0.005	161053	498.5	2	11.921	-0.005	286374	487.7
Aroclor-1260	3	11.738	-0.006	411989	485.3	3	12.440	-0.005	83955	537.0
Aroclor-1260	4	12.139	-0.010	225591	521.8	4	12.504	-0.005	191525	489.3
Aroclor-1260	5	12.249	-0.006	86617	489.4	NS	---			----
Total Col1Ave (5 peaks):					496.8	Total Col2Ave (4 peaks):				500.4 RPD = 1
Corrected Ave (4 peaks):					490.5	Corrected Ave (3 peaks):				488.2 RPD = 0
Aroclor-1262	1	10.828	-0.020	309983	1080.2	1	11.205	-0.013	102595	304.4
Aroclor-1262	2	12.249	-0.013	86617	194.1	2	11.659	-0.011	114076	390.8
Aroclor-1262	3	12.324	-0.013	105115	220.6	3	12.440	-0.012	83955	260.7
Aroclor-1262	4	12.990	-0.015	98979	258.8	4	12.504	-0.016	191525	379.7
Total Col1Ave (4 peaks):					438.4	Total Col2Ave (4 peaks):				333.9 RPD = 27
Corrected Ave (3 peaks):					224.5	Corrected Ave (3 peaks):				314.9 RPD = 34
Aroclor-1268	1	12.249	-0.013	86617	72.1	1	12.440	-0.010	83955	100.3
Aroclor-1268	2	12.324	-0.011	105115	89.5	2	12.504	-0.013	191525	223.2
Aroclor-1268	3	12.727	0.011	49205	51.1	3	12.899	-0.010	4342	13.6
Aroclor-1268	4	13.492	-0.013	25647	8.7	4	13.714	-0.012	22089	9.6
Total Col1Ave (4 peaks):					55.4	Total Col2Ave (4 peaks):				86.7 RPD = 44*

Corrected Ave (3 peaks): 44.0 Corrected Ave (3 peaks): 41.2 RPD = 7

Total PCB Area Col1 (5.931 - 13.803) = 4448164 Col1 Total PCB = 1.0 ppm*

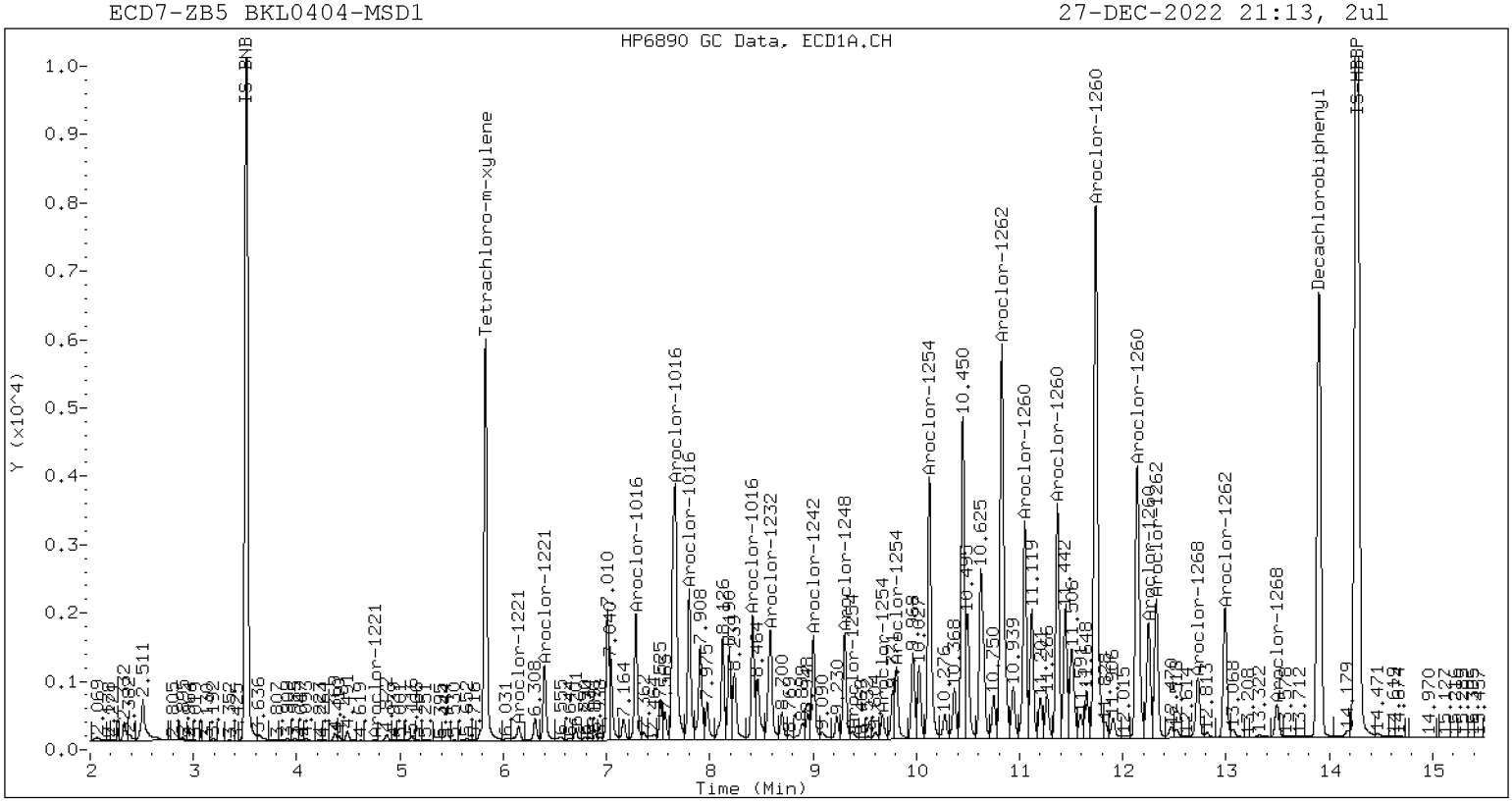
Total PCB Area Col2 (5.809 - 14.028) = 2797002 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

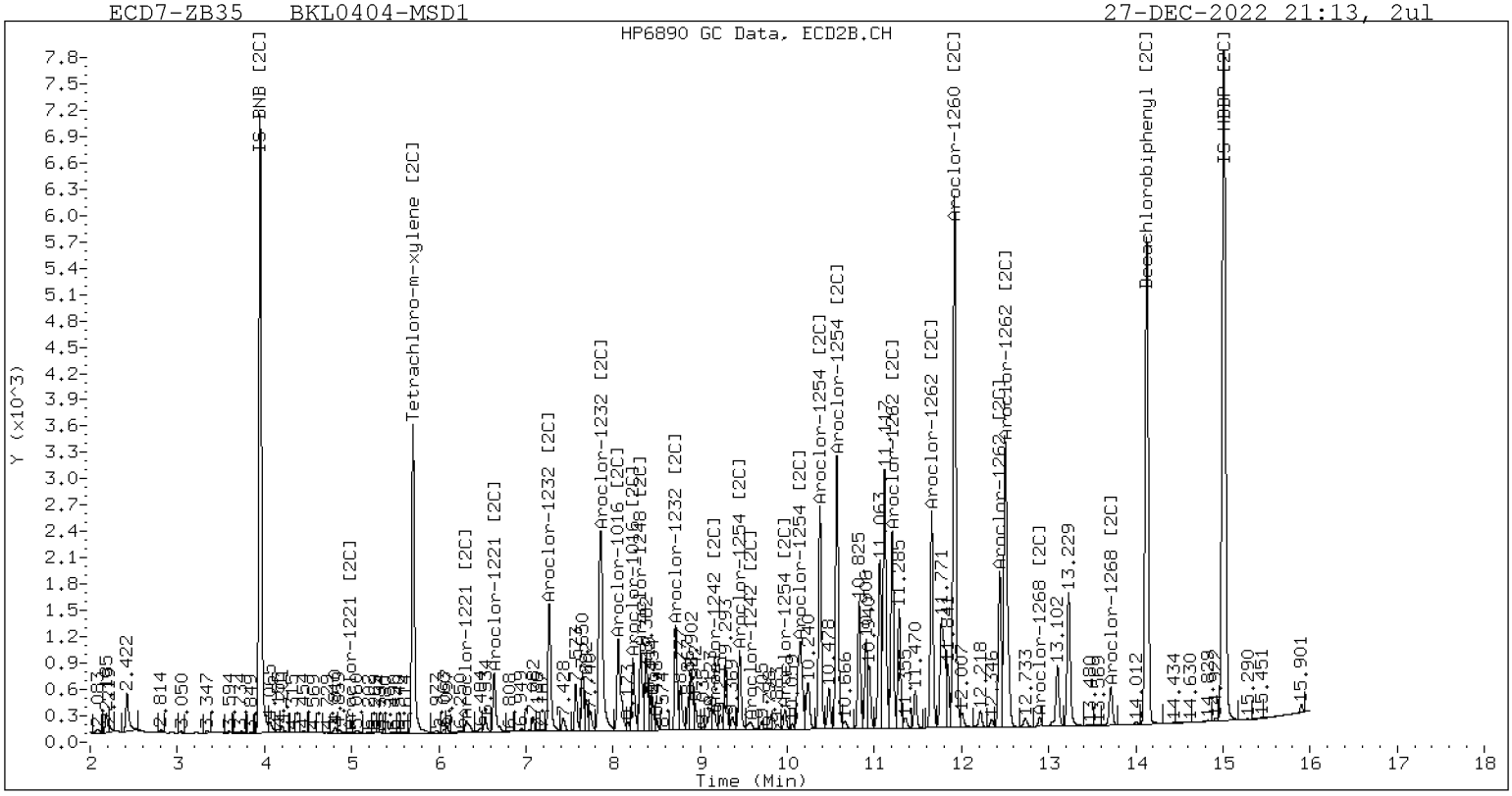
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0404-MSD1 27-DEC-2022 21:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0404-MSD1 27-DEC-2022 21:13, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/31/22 12:37
Batch:	BKL0488	Laboratory ID:	BKL0488-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	18.6 g / 2.5 mL	Source Sample:	LDW22-SC758K

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	69.1		68.5	56 - 120
Aroclor 1260	101	ND	U	91.4		90.5	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/31/22 12:58
Batch:	BKL0488	Laboratory ID:	BKL0488-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	18.6 g / 2.5 mL	Source Sample:	LDW22-SC758K

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	71.2		70.6	2.94	30	56 - 120
Aroclor 1260	101	93.5		92.6	2.22	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312208ECD7.D
Data file 2: /221231.b/221231.b/12312208ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0488-MS1
Client ID:
Injection Date: 31-DEC-2022 12:37
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	222211	5.704	-0.006	149910	33.8	37.1	9.2	Tetrachloro-m-xylene
13.895	-0.005	196259	14.124	-0.006	198754	44.3	40.8	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	463528	3.5
Hexabromobiphenyl	798898	483663	-39.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	294774	18.3
Hexabromobiphenyl	362541	343199	-5.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.282	-0.012	57982	375.0	1	7.267	-0.007	57758	383.2
Aroclor-1016	2	7.658	-0.027	182464	365.5	2	7.855	-0.019	122914	378.1
Aroclor-1016	3	7.796	-0.022	67888	300.1	3	8.056	-0.016	46934	336.2
Aroclor-1016	4	8.411	-0.018	49221	341.3	4	8.225	-0.018	28767	391.9
Total Col1Ave (4 peaks):					345.5	Total Col2Ave (4 peaks):				372.4 RPD = 7
Corrected Ave (3 peaks):					335.6	Corrected Ave (3 peaks):				365.9 RPD = 9
Aroclor-1221	1	4.747	-0.013	1743	45.5	1	5.055	0.068	2041	82.0
Aroclor-1221	2	6.148	-0.011	8719	129.2	2	6.314	-0.007	9295	196.0
Aroclor-1221	3	6.398	-0.011	42949	275.8	3	6.636	-0.010	26318	329.8
Total Col1Ave (3 peaks):					150.1	Total Col2Ave (3 peaks):				202.6 RPD = 30
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.747	-0.014	1743	75.6	1	5.055	0.065	2041	142.4
Aroclor-1232	2	6.148	-0.012	8719	179.0	2	7.267	-0.010	57758	789.0
Aroclor-1232	3	7.658	-0.026	182464	834.1	3	7.855	-0.021	122914	858.9
Aroclor-1232	4	8.580	-0.025	53728	578.9	4	8.718	-0.016	36170	932.2
Total Col1Ave (4 peaks):					416.9	Total Col2Ave (4 peaks):				680.6 RPD = 48*
Corrected Ave (3 peaks):					277.8	Corrected Ave (3 peaks):				596.8 RPD = 73*
Aroclor-1242	1	7.282	-0.007	57982	441.3	1	7.267	-0.005	57758	463.0
Aroclor-1242	2	7.658	-0.020	182464	437.4	2	7.855	-0.015	122914	464.1
Aroclor-1242	3	8.411	-0.012	49221	410.1	3	9.148	-0.022	6725	78.7
Aroclor-1242	4	8.999	-0.024	38493	154.5	4	9.570	-0.023	3260	31.7
Total Col1Ave (4 peaks):					360.8	Total Col2Ave (4 peaks):				259.4 RPD = 33
Corrected Ave (3 peaks):					334.0	Corrected Ave (3 peaks):				191.1 RPD = 54*
Aroclor-1248	1	8.411	-0.016	49221	247.0	1	8.313	-0.010	32459	269.5
Aroclor-1248	2	8.580	-0.024	53728	211.1	2	8.718	-0.010	36170	285.6
Aroclor-1248	3	8.999	-0.024	38493	84.1	3	9.148	-0.026	6725	43.7
Aroclor-1248	4	9.300	-0.012	40634	181.2	4	9.570	-0.026	3260	18.0
Total Col1Ave (4 peaks):					180.8	Total Col2Ave (4 peaks):				154.2 RPD = 16
Corrected Ave (3 peaks):					158.8	Corrected Ave (3 peaks):				110.4 RPD = 36
Aroclor-1254	1	9.300	-0.022	40634	99.6	1	9.449	-0.012	25992	136.8
Aroclor-1254	2	9.372	-0.030	1358	8.6	2	9.967	-0.011	6403	41.9
Aroclor-1254	3	9.663	-0.031	9273	36.0	3	10.148	0.018	54929	167.2
Aroclor-1254	4	9.797	-0.034	40767	81.1	4	10.372	-0.007	77904	229.0
Aroclor-1254	5	10.122	-0.068	108364	314.6	5	10.565	-0.011	98704	601.7
Total Col1Ave (5 peaks):					108.0	Total Col2Ave (5 peaks):				235.3 RPD = 74*
Corrected Ave (4 peaks):					56.3	Corrected Ave (4 peaks):				143.7 RPD = 87*
Aroclor-1260	1	11.045	-0.018	83071	471.8	1	11.653	-0.010	69209	382.0
Aroclor-1260	2	11.360	-0.018	83611	459.2	2	11.914	-0.011	185603	408.3
Aroclor-1260	3	11.729	-0.023	214279	447.9	3	12.435	-0.010	54395	449.4
Aroclor-1260	4	12.129	-0.029	112839	463.1	4	12.498	-0.012	120226	396.7
Aroclor-1260	5	12.244	-0.018	44191	443.1	NS	---			----
Total Col1Ave (5 peaks):					457.0	Total Col2Ave (4 peaks):				409.1 RPD = 11
Corrected Ave (4 peaks):					453.3	Corrected Ave (3 peaks):				395.7 RPD = 14
Aroclor-1262	1	10.818	-0.030	171174	1058.3	1	11.200	-0.017	66159	253.5
Aroclor-1262	2	12.244	-0.019	44191	175.7	2	11.653	-0.017	69209	306.2
Aroclor-1262	3	12.318	-0.019	51985	193.6	3	12.435	-0.017	54395	218.2
Aroclor-1262	4	12.983	-0.022	49576	230.0	4	12.498	-0.022	120226	307.9
Total Col1Ave (4 peaks):					414.4	Total Col2Ave (4 peaks):				271.4 RPD = 42*
Corrected Ave (3 peaks):					199.8	Corrected Ave (3 peaks):				259.3 RPD = 26
Aroclor-1268	1	12.244	-0.019	44191	65.3	1	12.435	-0.015	54395	84.0
Aroclor-1268	2	12.318	-0.018	51985	78.5	2	12.498	-0.019	120226	181.0
Aroclor-1268	3	12.719	0.003	25075	46.2	3	12.896	-0.014	2755	11.2
Aroclor-1268	4	13.487	-0.018	14397	8.7	4	13.709	-0.017	15362	8.7
Total Col1Ave (4 peaks):					49.7	Total Col2Ave (4 peaks):				71.2 RPD = 36

Corrected Ave (3 peaks): 40.1 Corrected Ave (3 peaks): 34.6 RPD = 15

Total PCB Area Col1 (5.932 - 13.801) = 2582292 Col1 Total PCB = 0.6 ppm*

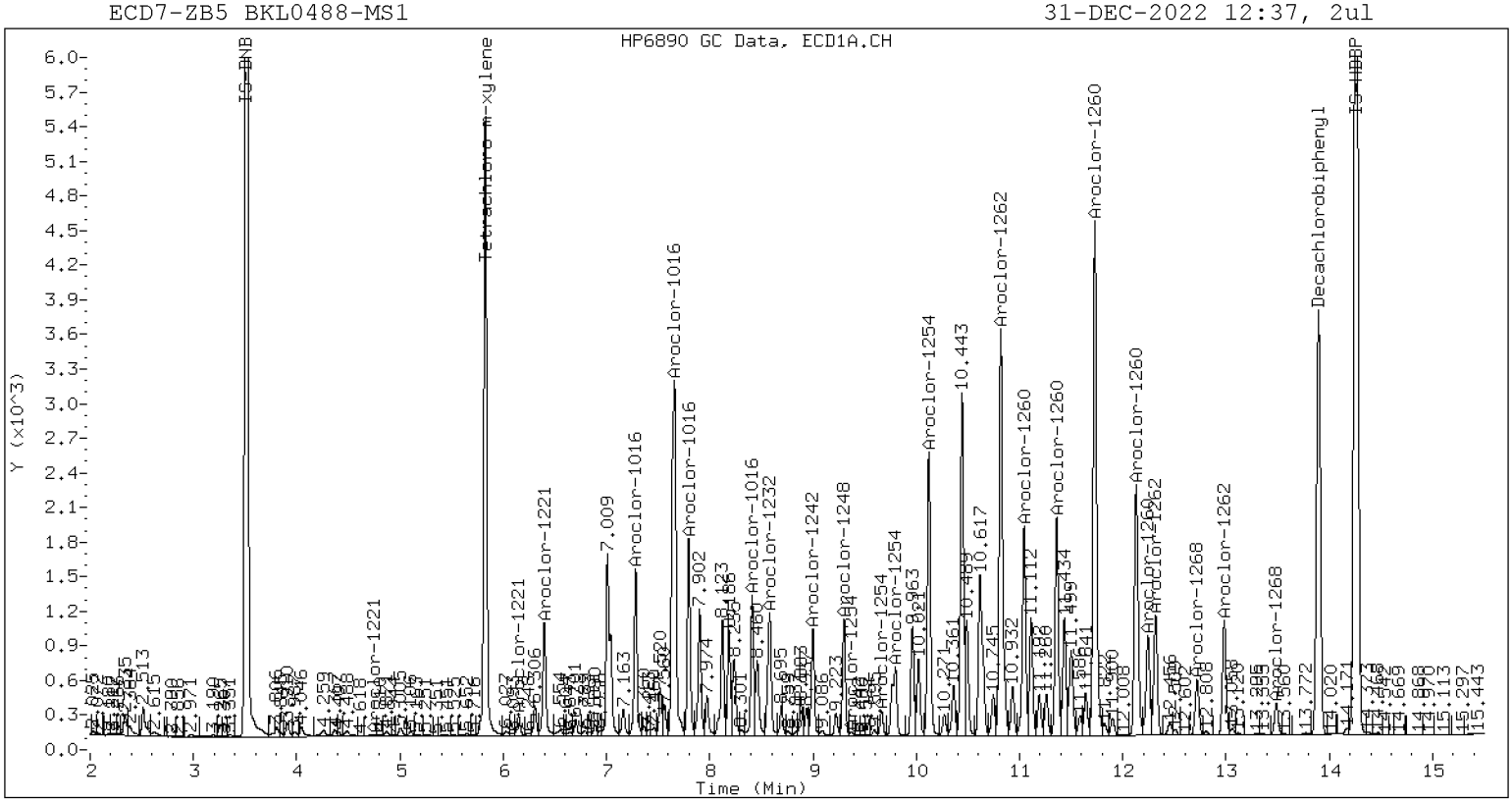
Total PCB Area Col2 (5.810 - 14.030) = 1910703 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

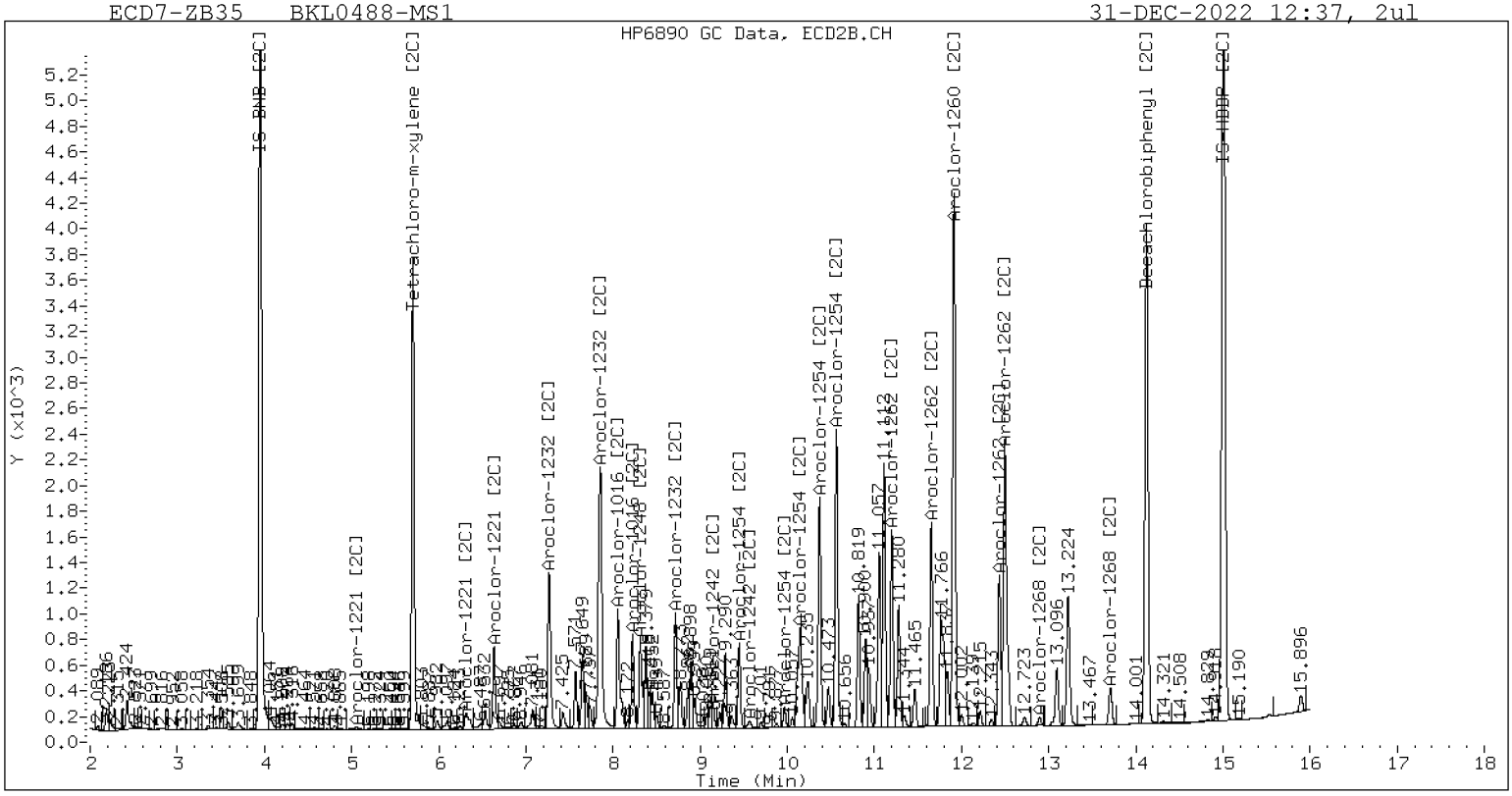
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0488-MS1 31-DEC-2022 12:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0488-MS1 31-DEC-2022 12:37, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312209ECD7.D
Data file 2: /221231.b/221231.b/12312209ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0488-MSD1
Client ID:
Injection Date: 31-DEC-2022 12:58
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.005	219421	5.704	-0.006	152061	33.8	38.0	11.5	Tetrachloro-m-xylene
13.894	-0.006	192937	14.123	-0.007	198490	44.2	40.7	8.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	457808	2.3
Hexabromobiphenyl	798898	476628	-40.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	292303	17.3
Hexabromobiphenyl	362541	343417	-5.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.283	-0.011	59096	387.0	1	7.267	-0.006	59110	395.5
Aroclor-1016	2	7.658	-0.026	185806	376.9	2	7.856	-0.018	124855	387.4
Aroclor-1016	3	7.796	-0.021	68656	307.3	3	8.057	-0.016	47906	346.1
Aroclor-1016	4	8.412	-0.018	50131	352.0	4	8.225	-0.018	29349	403.2
Total Col1Ave (4 peaks):					355.8	Total Col2Ave (4 peaks):				383.0 RPD = 7
Corrected Ave (3 peaks):					345.4	Corrected Ave (3 peaks):				376.3 RPD = 9
Aroclor-1221	1	4.748	-0.012	1781	47.1	1	5.056	0.068	2363	95.8
Aroclor-1221	2	6.149	-0.010	8665	130.0	2	6.315	-0.007	9983	212.3
Aroclor-1221	3	6.398	-0.011	43268	281.3	3	6.636	-0.010	26677	337.2
Total Col1Ave (3 peaks):					152.8	Total Col2Ave (3 peaks):				215.1 RPD = 34
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.748	-0.013	1781	78.2	1	5.056	0.066	2363	166.2
Aroclor-1232	2	6.149	-0.011	8665	180.1	2	7.267	-0.010	59110	814.3
Aroclor-1232	3	7.658	-0.025	185806	860.0	3	7.856	-0.020	124855	879.8
Aroclor-1232	4	8.581	-0.025	54235	591.6	4	8.719	-0.015	36990	961.4
Total Col1Ave (4 peaks):					427.5	Total Col2Ave (4 peaks):				705.4 RPD = 49*
Corrected Ave (3 peaks):					283.3	Corrected Ave (3 peaks):				620.1 RPD = 75*
Aroclor-1242	1	7.283	-0.006	59096	455.4	1	7.267	-0.005	59110	477.8
Aroclor-1242	2	7.658	-0.020	185806	451.0	2	7.856	-0.014	124855	475.4
Aroclor-1242	3	8.412	-0.012	50131	422.9	3	9.149	-0.022	6963	82.2
Aroclor-1242	4	8.999	-0.025	39326	159.8	4	9.570	-0.022	3590	35.3
Total Col1Ave (4 peaks):					372.3	Total Col2Ave (4 peaks):				267.7 RPD = 33
Corrected Ave (3 peaks):					344.5	Corrected Ave (3 peaks):				197.6 RPD = 54*
Aroclor-1248	1	8.412	-0.016	50131	254.7	1	8.314	-0.009	33255	278.5
Aroclor-1248	2	8.581	-0.024	54235	215.8	2	8.719	-0.010	36990	294.5
Aroclor-1248	3	8.999	-0.024	39326	87.0	3	9.149	-0.025	6963	45.6
Aroclor-1248	4	9.300	-0.011	41405	186.9	4	9.570	-0.025	3590	20.0
Total Col1Ave (4 peaks):					186.1	Total Col2Ave (4 peaks):				159.7 RPD = 15
Corrected Ave (3 peaks):					163.2	Corrected Ave (3 peaks):				114.7 RPD = 35
Aroclor-1254	1	9.300	-0.021	41405	102.7	1	9.450	-0.011	26747	141.9
Aroclor-1254	2	9.373	-0.029	1472	9.4	2	9.968	-0.011	6663	44.0
Aroclor-1254	3	9.664	-0.030	9464	37.2	3	10.148	0.018	56467	173.4
Aroclor-1254	4	9.796	-0.034	41429	83.5	4	10.372	-0.006	79939	237.0
Aroclor-1254	5	10.121	-0.068	109722	322.5	5	10.565	-0.011	100796	619.6
Total Col1Ave (5 peaks):					111.1	Total Col2Ave (5 peaks):				243.2 RPD = 75*
Corrected Ave (4 peaks):					58.2	Corrected Ave (4 peaks):				149.1 RPD = 88*
Aroclor-1260	1	11.044	-0.018	83762	482.8	1	11.654	-0.009	70841	390.8
Aroclor-1260	2	11.360	-0.018	84342	470.0	2	11.915	-0.011	189325	416.2
Aroclor-1260	3	11.730	-0.022	216224	458.6	3	12.435	-0.010	55435	457.7
Aroclor-1260	4	12.130	-0.028	114236	475.8	4	12.498	-0.011	122808	405.0
Aroclor-1260	5	12.244	-0.018	44143	449.1	NS	---			----
Total Col1Ave (5 peaks):					467.3	Total Col2Ave (4 peaks):				417.4 RPD = 11
Corrected Ave (4 peaks):					463.4	Corrected Ave (3 peaks):				404.0 RPD = 14
Aroclor-1262	1	10.818	-0.030	173910	1091.1	1	11.201	-0.017	67604	258.9
Aroclor-1262	2	12.244	-0.019	44143	178.1	2	11.654	-0.016	70841	313.2
Aroclor-1262	3	12.317	-0.019	51995	196.5	3	12.435	-0.017	55435	222.2
Aroclor-1262	4	12.983	-0.022	49877	234.8	4	12.498	-0.021	122808	314.3
Total Col1Ave (4 peaks):					425.1	Total Col2Ave (4 peaks):				277.2 RPD = 42*
Corrected Ave (3 peaks):					203.1	Corrected Ave (3 peaks):				264.8 RPD = 26
Aroclor-1268	1	12.244	-0.019	44143	66.2	1	12.435	-0.015	55435	85.5
Aroclor-1268	2	12.317	-0.018	51995	79.7	2	12.498	-0.019	122808	184.8
Aroclor-1268	3	12.720	0.003	25116	47.0	3	12.896	-0.014	2782	11.3
Aroclor-1268	4	13.487	-0.018	14420	8.8	4	13.709	-0.017	14940	8.4
Total Col1Ave (4 peaks):					50.4	Total Col2Ave (4 peaks):				72.5 RPD = 36

Corrected Ave (3 peaks): 40.7 Corrected Ave (3 peaks): 35.1 RPD = 15

Total PCB Area Col1 (5.932 - 13.801) = 2608679 Col1 Total PCB = 0.6 ppm*

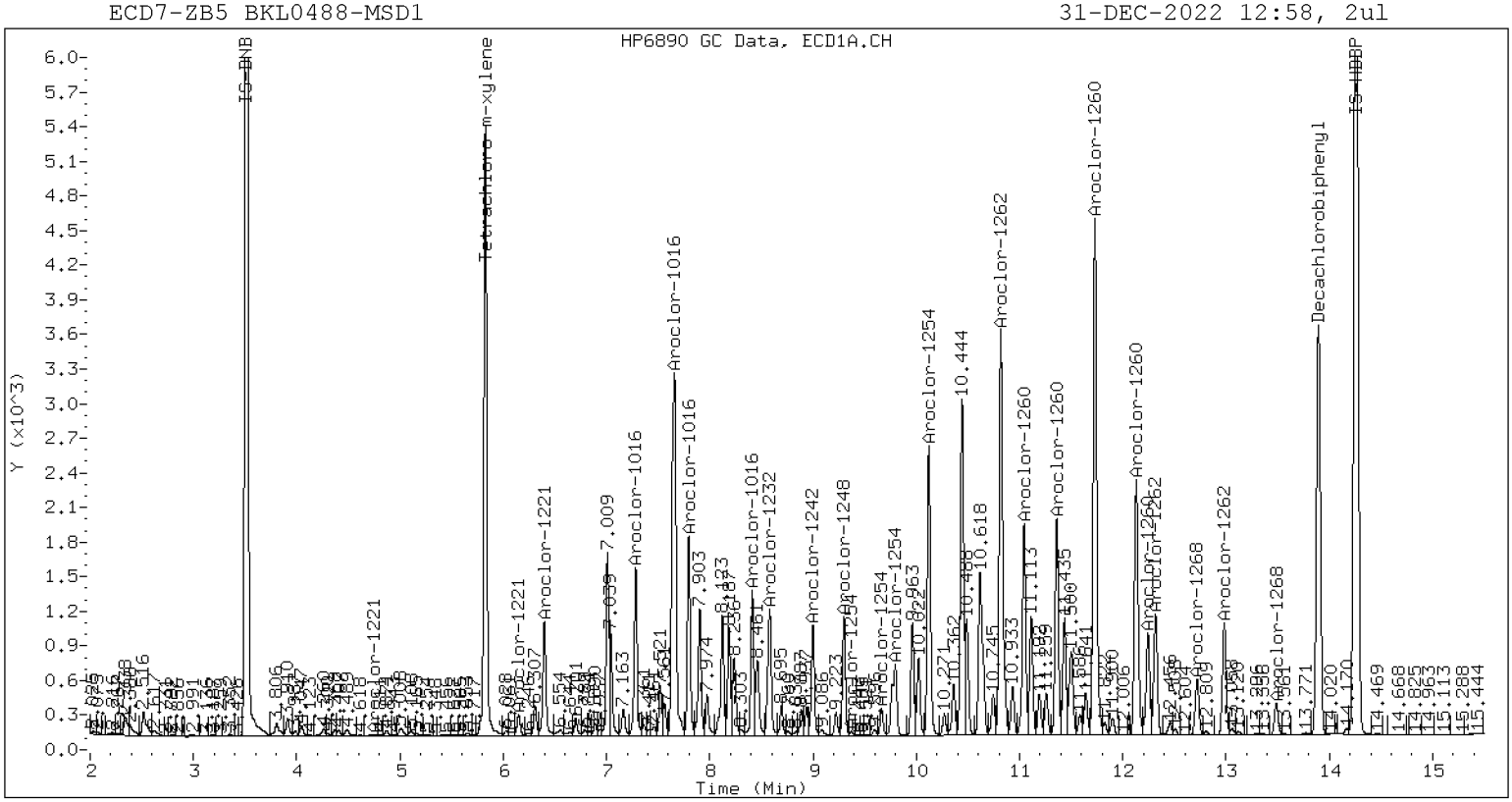
Total PCB Area Col2 (5.810 - 14.030) = 1953480 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BKL0488-MSD1 31-DEC-2022 12:58, 2ul



ZB-5 Manual Integration: NO

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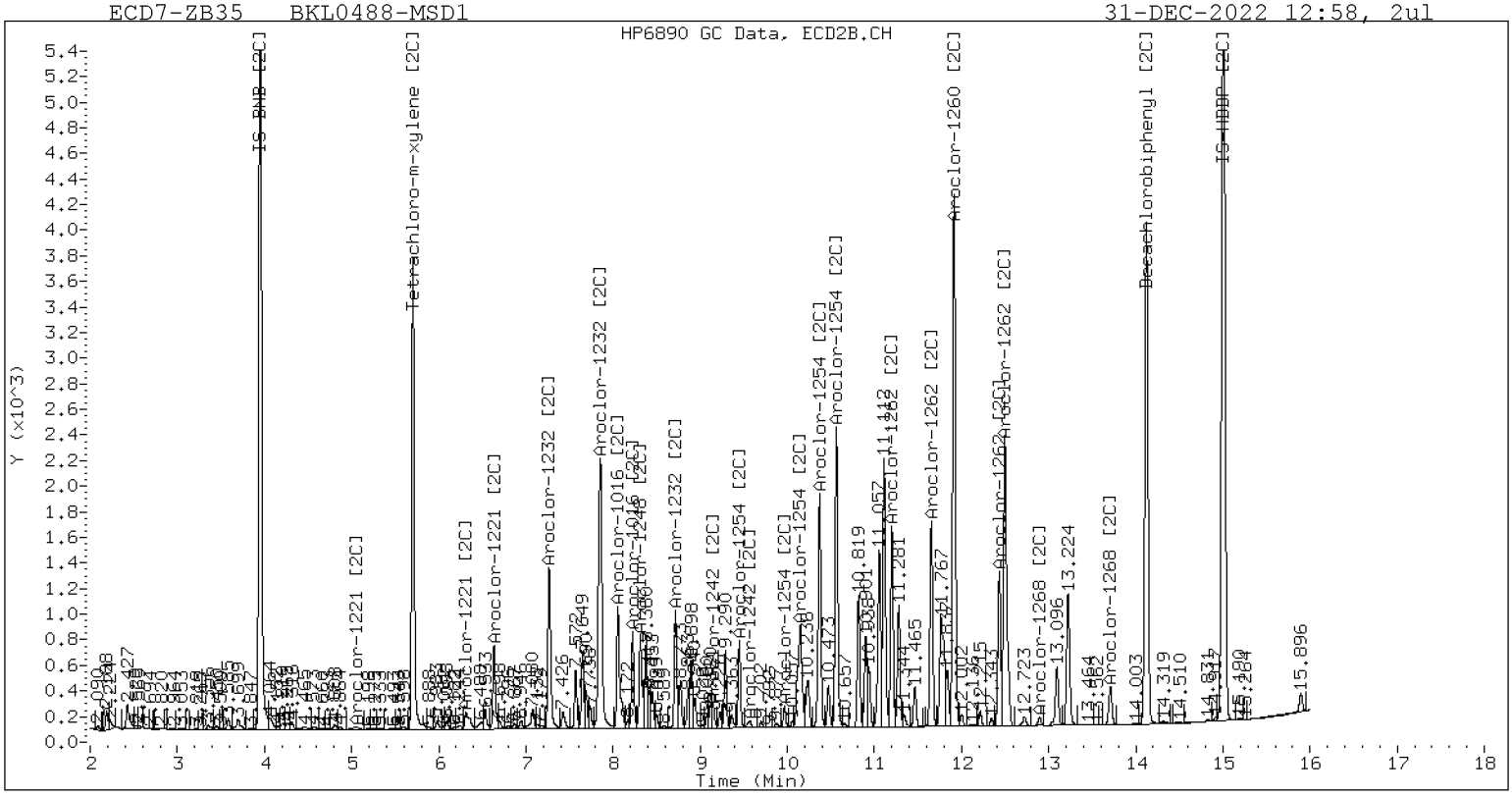


ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0401-SRM1
Batch: BKL0401
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 12/28/2022 7:47
Standard ID: K003525
Expires: 04/12/2023
Standard Lot#: PSRM0148
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	119	2.9	20.0		110	38 - 167
Aroclor 1260 [2C]	108.00	126	2.9	20.0		116	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272244ECD7.D
Data file 2: /221227.b/221227.b/12272244ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0401-SRM1
Client ID:
Injection Date: 28-DEC-2022 07:47
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	248616	5.706	-0.003	161450	34.6	36.6	5.6	Tetrachloro-m-xylene
13.897	-0.007	295336	14.126	-0.002	259688	43.2	42.3	2.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	506987	13.3
Hexabromobiphenyl	798898	745033	-6.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	321782	29.2
Hexabromobiphenyl	362541	432204	19.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.254	-0.034	7563	44.7	1	7.275	0.003	4979	30.3
Aroclor-1016	2	7.664	-0.008	7030	12.9	2	7.861	-0.010	9064	25.5
Aroclor-1016	3	7.805	-0.004	2924	11.8	3	8.061	-0.010	1616	10.6
Aroclor-1016	4	8.414	-0.009	5658	35.9	4	8.228	-0.014	35454	442.5
	Total Col1Ave (4 peaks):				26.3		Total Col2Ave (4 peaks):			127.2 RPD = 131*
	Corrected Ave (3 peaks):				20.2		Corrected Ave (3 peaks):			22.1 RPD = 9
Aroclor-1221	1	4.726	-0.034	154	3.7	1	4.969	-0.018	725	26.7
Aroclor-1221	2	6.110	-0.049	5784	78.3	2	6.359	0.037	6364	123.0
Aroclor-1221	3	6.407	-0.002	1200	7.0	3	6.659	0.014	3575	41.0
	Total Col1Ave (3 peaks):				29.7		Total Col2Ave (3 peaks):			63.6 RPD = 73*
	Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks			
Aroclor-1232	1	4.726	-0.035	154	6.1	1	4.969	-0.020	725	46.3
Aroclor-1232	2	6.110	-0.050	5784	108.6	2	7.275	-0.002	4979	62.3
Aroclor-1232	3	7.664	-0.019	7030	29.4	3	7.861	-0.016	9064	58.0
Aroclor-1232	4	8.581	-0.025	7372	72.6	4	8.720	-0.014	5005	118.2
	Total Col1Ave (4 peaks):				54.2		Total Col2Ave (4 peaks):			71.2 RPD = 27
	Corrected Ave (3 peaks):				36.0		Corrected Ave (3 peaks):			55.6 RPD = 43*
Aroclor-1242	1	7.254	-0.040	7563	52.6	1	7.275	0.004	4979	36.6
Aroclor-1242	2	7.664	-0.021	7030	15.4	2	7.861	-0.010	9064	31.4
Aroclor-1242	3	8.414	-0.016	5658	43.1	3	9.156	-0.014	5702	61.1
Aroclor-1242	4	9.002	-0.029	22585	82.9	4	9.549	-0.041	11644	103.9
	Total Col1Ave (4 peaks):				48.5		Total Col2Ave (4 peaks):			58.2 RPD = 18
	Corrected Ave (3 peaks):				37.0		Corrected Ave (3 peaks):			43.0 RPD = 15
Aroclor-1248	1	8.414	-0.014	5658	26.0	1	8.315	-0.006	6026	45.8
Aroclor-1248	2	8.581	-0.023	7372	26.5	2	8.720	-0.007	5005	36.2
Aroclor-1248	3	9.002	-0.020	22585	45.1	3	9.156	-0.017	5702	33.9
Aroclor-1248	4	9.302	-0.009	26292	107.2	4	9.549	-0.045	11644	59.0
	Total Col1Ave (4 peaks):				51.2		Total Col2Ave (4 peaks):			43.7 RPD = 16
	Corrected Ave (3 peaks):				32.5		Corrected Ave (3 peaks):			38.6 RPD = 17
Aroclor-1254	1	9.302	-0.019	26292	58.9	1	9.453	-0.008	17298	83.4
Aroclor-1254	2	9.378	-0.024	8864	51.1	2	9.970	-0.008	9266	55.6
Aroclor-1254	3	9.674	-0.021	15131	53.7	3	10.121	-0.009	35065	97.8
Aroclor-1254	4	9.804	-0.027	36114	65.7	4	10.373	-0.006	41810	112.6
Aroclor-1254	5	10.125	-0.064	58599	155.6	5	10.568	-0.008	41302	230.6
	Total Col1Ave (5 peaks):				77.0		Total Col2Ave (5 peaks):			116.0 RPD = 40*
	Corrected Ave (4 peaks):				57.3		Corrected Ave (4 peaks):			87.3 RPD = 41*
Aroclor-1260	1	11.047	-0.008	33577	123.8	1	11.656	-0.007	28037	122.9
Aroclor-1260	2	11.360	-0.012	28479	101.5	2	11.917	-0.009	66081	115.4
Aroclor-1260	3	11.732	-0.012	88527	120.1	3	12.436	-0.008	22519	147.7
Aroclor-1260	4	12.133	-0.016	47699	127.1	4	12.501	-0.008	44466	116.5
Aroclor-1260	5	12.247	-0.009	18651	121.4	NS	---			----
	Total Col1Ave (5 peaks):				118.8		Total Col2Ave (4 peaks):			125.6 RPD = 6
	Corrected Ave (4 peaks):				116.7		Corrected Ave (3 peaks):			118.3 RPD = 1
Aroclor-1262	1	10.824	-0.024	79349	318.5	1	11.203	-0.014	25775	78.4
Aroclor-1262	2	12.247	-0.016	18651	48.2	2	11.656	-0.014	28037	98.5
Aroclor-1262	3	12.321	-0.016	23040	55.7	3	12.436	-0.015	22519	71.7
Aroclor-1262	4	12.986	-0.019	23002	69.3	4	12.501	-0.018	44466	90.4
	Total Col1Ave (4 peaks):				122.9		Total Col2Ave (4 peaks):			84.8 RPD = 37
	Corrected Ave (3 peaks):				57.7		Corrected Ave (3 peaks):			80.2 RPD = 33
Aroclor-1268	1	12.247	-0.016	18651	17.9	1	12.436	-0.013	22519	27.6
Aroclor-1268	2	12.321	-0.014	23040	22.6	2	12.501	-0.016	44466	53.2
Aroclor-1268	3	12.724	0.007	10833	13.0	3	12.900	-0.010	804	2.6
Aroclor-1268	4	13.490	-0.015	4582	1.8	4	13.711	-0.016	5848	2.6
	Total Col1Ave (4 peaks):				13.8		Total Col2Ave (4 peaks):			21.5 RPD = 44*

Corrected Ave (3 peaks): 10.9 Corrected Ave (3 peaks): 10.9 RPD = 0

Total PCB Area Col1 (5.931 - 13.803) = 2306703 Col1 Total PCB = 0.5 ppm*

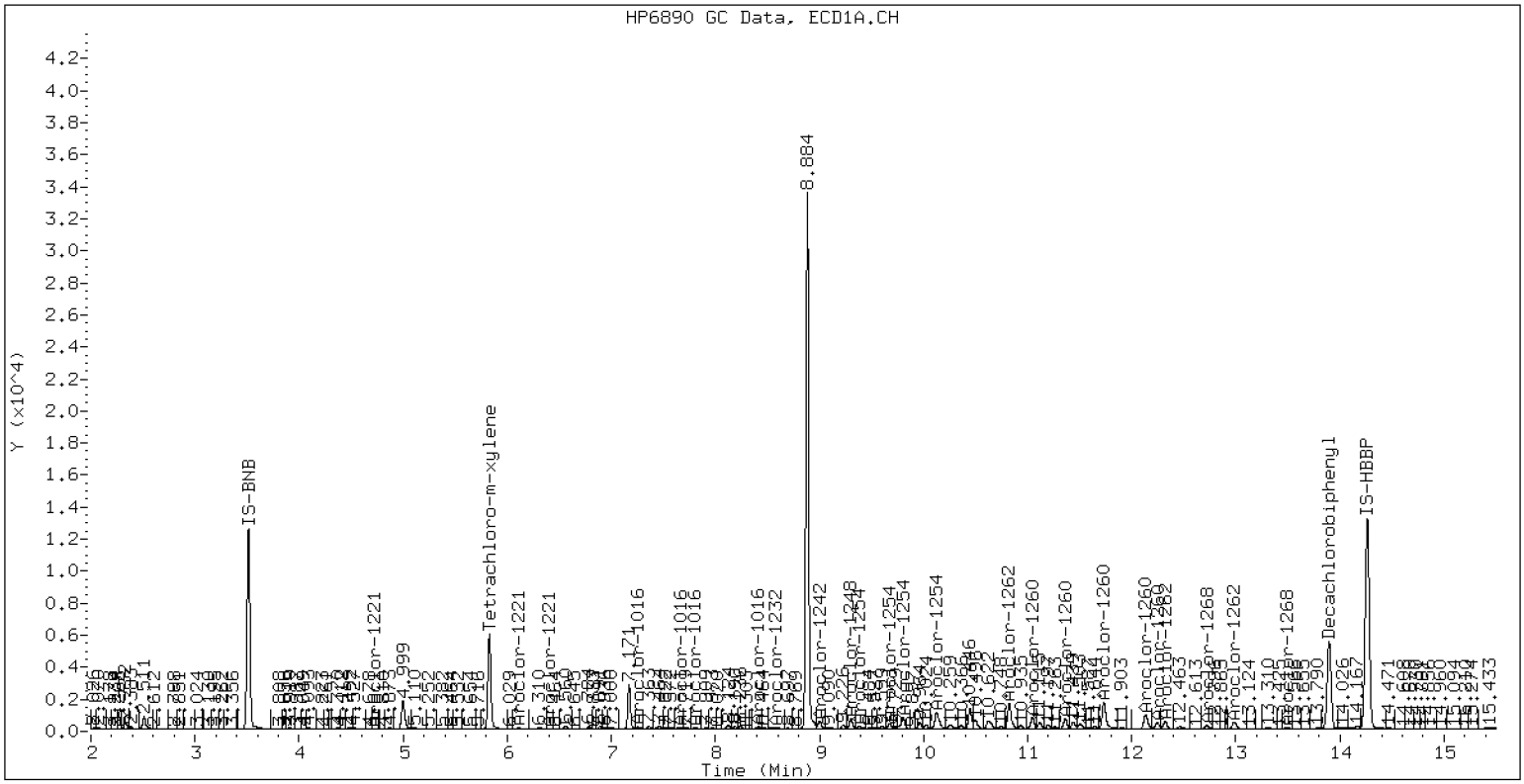
Total PCB Area Col2 (5.809 - 14.028) = 1182294 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

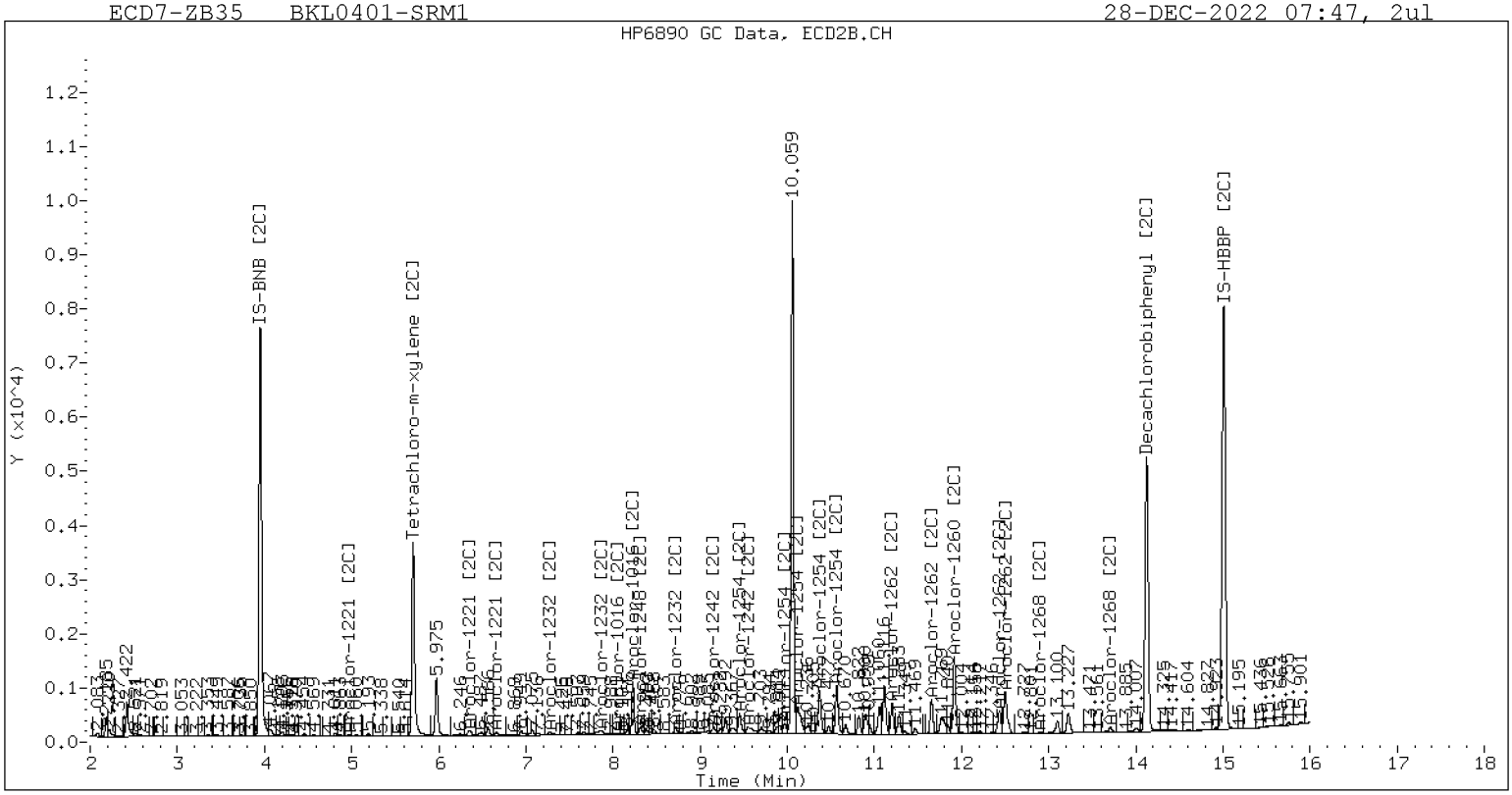
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0401-SRM1 28-DEC-2022 07:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0401-SRM1 28-DEC-2022 07:47, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0402-SRM1
Batch: BKL0402
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 12/30/2022 15:33
Standard ID: K003525
Expires: 04/12/2023
Standard Lot#: PSRM0148
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	117	2.9	20.0		108	38 - 167
Aroclor 1260 [2C]	108.00	116	2.9	20.0		107	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302213ECD7.D
Data file 2: /221230.b/221230.b/12302213ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0402-SRM1
Client ID:
Injection Date: 30-DEC-2022 15:33
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	251637	5.706	-0.004	160525	34.5	36.4	5.3	Tetrachloro-m-xylene
13.895	-0.007	334810	14.124	-0.004	282243	44.0	41.1	6.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	514184	14.9
Hexabromobiphenyl	798898	830404	3.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	321658	29.1
Hexabromobiphenyl	362541	483504	33.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.255	-0.036	14038	81.8	1	7.277	0.005	8201	49.9
Aroclor-1016	2	7.665	-0.013	8607	15.5	2	7.859	-0.013	7856	22.1
Aroclor-1016	3	7.813	0.001	5411	21.6	3	8.060	-0.011	1697	11.1
Aroclor-1016	4	8.414	-0.009	8891	55.6	4	8.229	-0.014	1435	17.9
Total Col1Ave (4 peaks):					43.6	Total Col2Ave (4 peaks):				25.3 RPD = 53*
Corrected Ave (3 peaks):					30.9	Corrected Ave (3 peaks):				17.1 RPD = 58*
Aroclor-1221	1	4.722	-0.038	198	4.7	1	4.965	-0.022	364	13.4
Aroclor-1221	2	6.139	-0.020	1577	21.1	2	6.361	0.039	11602	224.2
Aroclor-1221	3	6.413	0.004	2192	12.7	3	6.654	0.009	4035	46.3
Total Col1Ave (3 peaks):					12.8	Total Col2Ave (3 peaks):				94.7 RPD = 152*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.722	-0.039	198	7.7	1	4.965	-0.024	364	23.3
Aroclor-1232	2	6.139	-0.021	1577	29.2	2	7.277	0.000	8201	102.7
Aroclor-1232	3	7.665	-0.019	8607	35.5	3	7.859	-0.017	7856	50.3
Aroclor-1232	4	8.583	-0.022	7633	74.1	4	8.721	-0.013	3965	93.6
Total Col1Ave (4 peaks):					36.6	Total Col2Ave (4 peaks):				67.5 RPD = 59*
Corrected Ave (3 peaks):					24.1	Corrected Ave (3 peaks):				55.7 RPD = 79*
Aroclor-1242	1	7.255	-0.035	14038	96.3	1	7.277	0.005	8201	60.2
Aroclor-1242	2	7.665	-0.012	8607	18.6	2	7.859	-0.012	7856	27.2
Aroclor-1242	3	8.414	-0.007	8891	66.8	3	9.156	-0.014	5771	61.9
Aroclor-1242	4	9.002	-0.020	19626	71.0	4	9.548	-0.041	8640	77.1
Total Col1Ave (4 peaks):					63.2	Total Col2Ave (4 peaks):				56.6 RPD = 11
Corrected Ave (3 peaks):					52.1	Corrected Ave (3 peaks):				49.8 RPD = 5
Aroclor-1248	1	8.414	-0.009	8891	40.2	1	8.315	-0.007	6138	46.7
Aroclor-1248	2	8.583	-0.016	7633	27.0	2	8.721	-0.007	3965	28.7
Aroclor-1248	3	9.002	-0.017	19626	38.6	3	9.156	-0.018	5771	34.3
Aroclor-1248	4	9.302	-0.009	29138	117.1	4	9.548	-0.048	8640	43.8
Total Col1Ave (4 peaks):					55.8	Total Col2Ave (4 peaks):				38.4 RPD = 37
Corrected Ave (3 peaks):					35.3	Corrected Ave (3 peaks):				35.6 RPD = 1
Aroclor-1254	1	9.302	-0.020	29138	64.4	1	9.452	-0.008	15974	77.0
Aroclor-1254	2	9.378	-0.024	11018	62.6	2	9.970	-0.008	7770	46.6
Aroclor-1254	3	9.673	-0.021	18089	63.3	3	10.121	-0.007	33202	92.6
Aroclor-1254	4	9.803	-0.028	39815	71.4	4	10.373	-0.004	43043	116.0
Aroclor-1254	5	10.125	-0.064	63929	167.3	5	10.567	-0.008	43317	242.0
Total Col1Ave (5 peaks):					85.8	Total Col2Ave (5 peaks):				114.8 RPD = 29
Corrected Ave (4 peaks):					65.4	Corrected Ave (4 peaks):				83.1 RPD = 24
Aroclor-1260	1	11.046	-0.010	37002	122.4	1	11.656	-0.007	29173	114.3
Aroclor-1260	2	11.360	-0.013	31035	99.3	2	11.917	-0.008	68809	107.4
Aroclor-1260	3	11.732	-0.015	101080	123.1	3	12.435	-0.008	22877	134.1
Aroclor-1260	4	12.132	-0.015	51767	123.8	4	12.500	-0.008	46124	108.0
Aroclor-1260	5	12.245	-0.010	20021	116.9	NS	---			----
Total Col1Ave (5 peaks):					117.1	Total Col2Ave (4 peaks):				116.0 RPD = 1
Corrected Ave (4 peaks):					115.4	Corrected Ave (3 peaks):				109.9 RPD = 5
Aroclor-1262	1	10.823	-0.025	87259	314.2	1	11.202	-0.016	26267	71.4
Aroclor-1262	2	12.245	-0.017	20021	46.4	2	11.656	-0.014	29173	91.6
Aroclor-1262	3	12.319	-0.017	24423	53.0	3	12.435	-0.016	22877	65.1
Aroclor-1262	4	12.985	-0.020	22588	61.0	4	12.500	-0.020	46124	83.8
Total Col1Ave (4 peaks):					118.7	Total Col2Ave (4 peaks):				78.0 RPD = 41*
Corrected Ave (3 peaks):					53.5	Corrected Ave (3 peaks):				73.5 RPD = 32
Aroclor-1268	1	12.245	-0.017	20021	17.2	1	12.435	-0.015	22877	25.1
Aroclor-1268	2	12.319	-0.016	24423	21.5	2	12.500	-0.017	46124	49.3
Aroclor-1268	3	12.723	0.007	11700	12.6	3	12.898	-0.011	810	2.3
Aroclor-1268	4	13.489	-0.016	4137	1.5	4	13.710	-0.016	5515	2.2
Total Col1Ave (4 peaks):					13.2	Total Col2Ave (4 peaks):				19.7 RPD = 40

Corrected Ave (3 peaks): 10.4 Corrected Ave (3 peaks): 9.9 RPD = 5

Total PCB Area Col1 (5.933 - 13.802) = 1166974 Col1 Total PCB = 0.2 ppm*

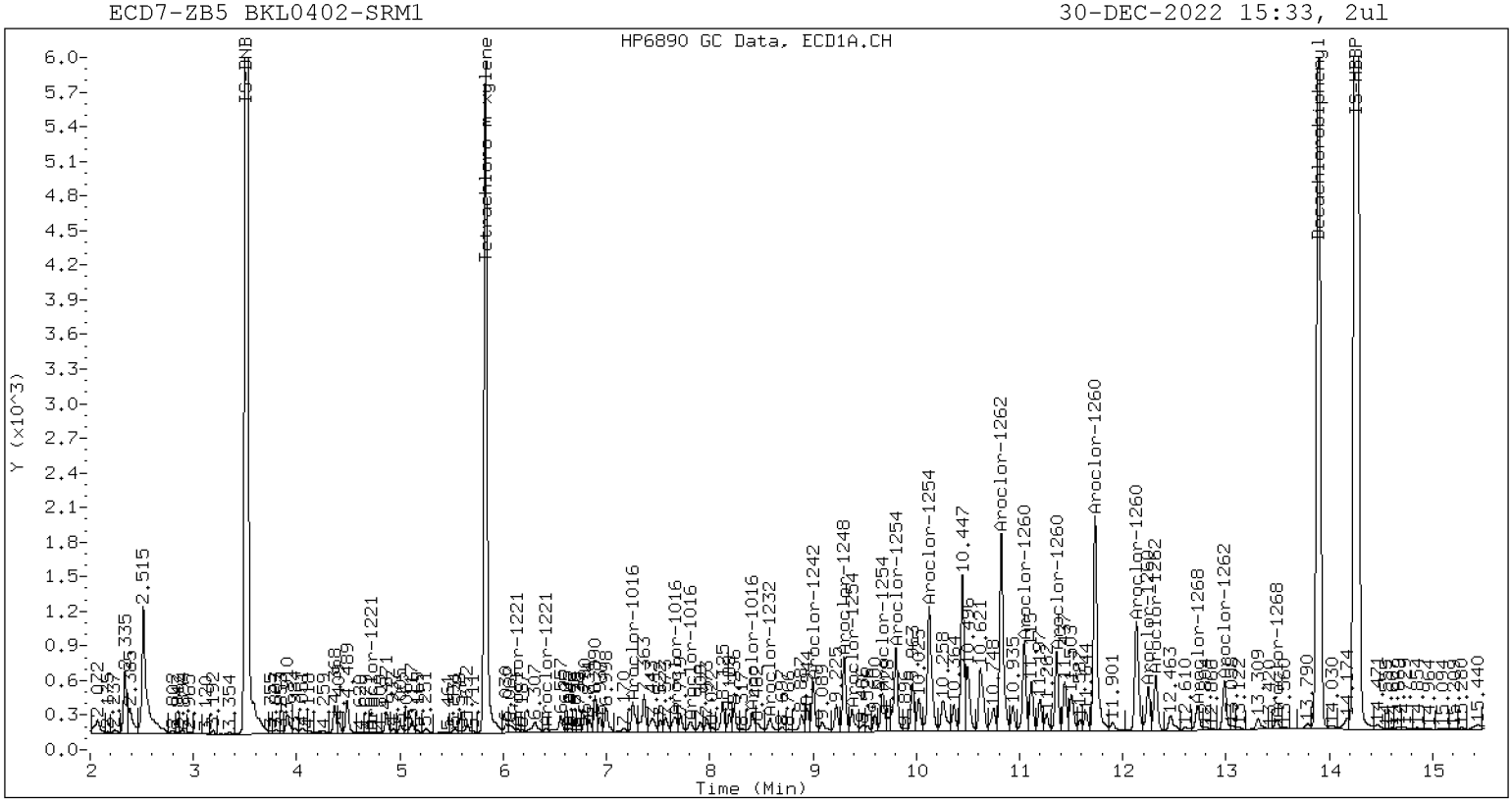
Total PCB Area Col2 (5.810 - 14.028) = 769846 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

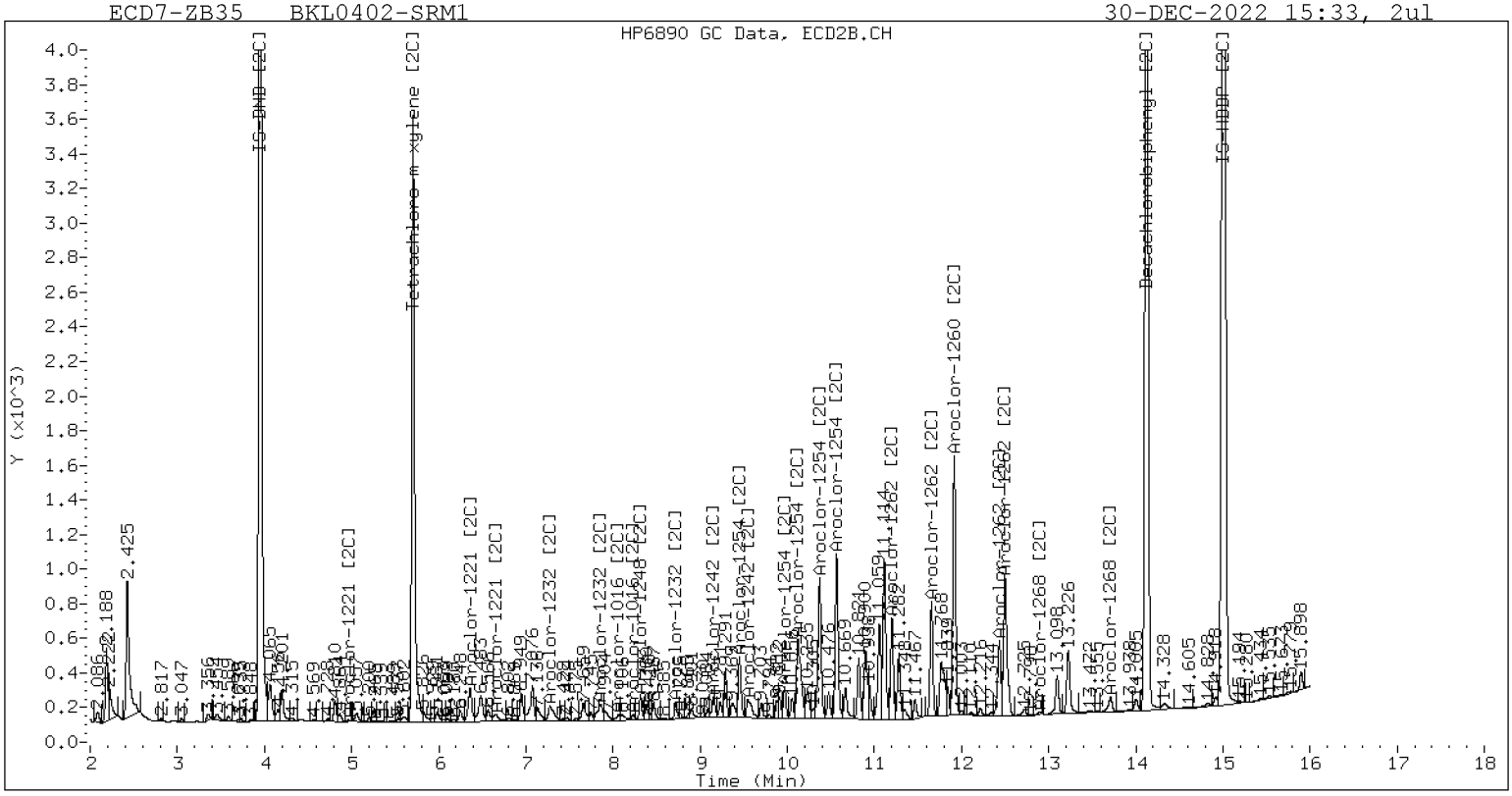
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0402-SRM1 30-DEC-2022 15:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0402-SRM1 30-DEC-2022 15:33, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0404-SRM1
Batch: BKL0404
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 12/27/2022 20:31
Standard ID: K003525
Expires: 04/12/2023
Standard Lot#: PSRM0148
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	125	2.9	20.0		116	38 - 167
Aroclor 1260 [2C]	108.00	130	2.9	20.0		120	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272212ECD7.D
Data file 2: /221227.b/221227.b/12272212ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0404-SRM1
Client ID:
Injection Date: 27-DEC-2022 20:31
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	253180	5.707	-0.002	157520	37.0	38.1	2.8	Tetrachloro-m-xylene
13.897	-0.006	302861	14.125	-0.003	253952	45.2	43.9	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482578	7.8
Hexabromobiphenyl	798898	730568	-8.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301935	21.2
Hexabromobiphenyl	362541	407778	12.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.323	0.035	2137	13.3	1	7.276	0.004	6197	40.1
Aroclor-1016	2	7.665	-0.007	7201	13.9	2	7.860	-0.011	7453	22.4
Aroclor-1016	3	7.811	0.002	3669	15.6	3	8.061	-0.010	1451	10.1
Aroclor-1016	4	8.415	-0.008	5935	39.5	4	8.229	-0.013	1336	17.8
Total Col1Ave (4 peaks):					20.6	Total Col2Ave (4 peaks):				22.6 RPD = 10
Corrected Ave (3 peaks):					14.2	Corrected Ave (3 peaks):				16.8 RPD = 16
Aroclor-1221	1	4.738	-0.022	846	21.2	1	4.971	-0.016	1067	41.9
Aroclor-1221	2	6.138	-0.021	1499	21.3	2	6.361	0.039	8957	184.4
Aroclor-1221	3	6.413	0.005	1948	12.0	3	6.657	0.012	3954	48.4
Total Col1Ave (3 peaks):					18.2	Total Col2Ave (3 peaks):				91.6 RPD = 134*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.738	-0.023	846	35.2	1	4.971	-0.018	1067	72.7
Aroclor-1232	2	6.138	-0.021	1499	29.6	2	7.276	-0.000	6197	82.6
Aroclor-1232	3	7.665	-0.019	7201	31.6	3	7.860	-0.017	7453	50.8
Aroclor-1232	4	8.584	-0.022	4780	49.5	4	8.721	-0.013	3928	98.8
Total Col1Ave (4 peaks):					36.5	Total Col2Ave (4 peaks):				76.2 RPD = 71*
Corrected Ave (3 peaks):					32.1	Corrected Ave (3 peaks):				68.7 RPD = 73*
Aroclor-1242	1	7.323	0.029	2137	15.6	1	7.276	0.005	6197	48.5
Aroclor-1242	2	7.665	-0.020	7201	16.6	2	7.860	-0.010	7453	27.5
Aroclor-1242	3	8.415	-0.015	5935	47.5	3	9.157	-0.013	5217	59.6
Aroclor-1242	4	9.002	-0.029	17907	69.0	4	9.548	-0.042	8160	77.6
Total Col1Ave (4 peaks):					37.2	Total Col2Ave (4 peaks):				53.3 RPD = 36
Corrected Ave (3 peaks):					26.6	Corrected Ave (3 peaks):				45.2 RPD = 52*
Aroclor-1248	1	8.415	-0.013	5935	28.6	1	8.315	-0.006	5530	44.8
Aroclor-1248	2	8.584	-0.021	4780	18.0	2	8.721	-0.006	3928	30.3
Aroclor-1248	3	9.002	-0.020	17907	37.6	3	9.157	-0.016	5217	33.1
Aroclor-1248	4	9.303	-0.008	25823	110.6	4	9.548	-0.046	8160	44.0
Total Col1Ave (4 peaks):					48.7	Total Col2Ave (4 peaks):				38.1 RPD = 25
Corrected Ave (3 peaks):					28.1	Corrected Ave (3 peaks):				35.8 RPD = 24
Aroclor-1254	1	9.303	-0.018	25823	60.8	1	9.453	-0.008	14745	75.7
Aroclor-1254	2	9.378	-0.024	9126	55.2	2	9.970	-0.008	7319	46.8
Aroclor-1254	3	9.674	-0.020	15472	57.7	3	10.122	-0.008	30661	91.1
Aroclor-1254	4	9.804	-0.027	35320	67.5	4	10.372	-0.007	39562	113.6
Aroclor-1254	5	10.126	-0.064	58480	163.1	5	10.567	-0.008	39895	237.4
Total Col1Ave (5 peaks):					80.9	Total Col2Ave (5 peaks):				112.9 RPD = 33
Corrected Ave (4 peaks):					60.3	Corrected Ave (4 peaks):				81.8 RPD = 30
Aroclor-1260	1	11.047	-0.008	34327	129.1	1	11.655	-0.008	26848	124.7
Aroclor-1260	2	11.360	-0.012	28870	105.0	2	11.916	-0.010	63457	117.5
Aroclor-1260	3	11.732	-0.011	96384	133.4	3	12.434	-0.010	22451	156.1
Aroclor-1260	4	12.133	-0.016	47876	130.1	4	12.500	-0.009	43523	120.9
Aroclor-1260	5	12.246	-0.009	19110	126.8	NS	---			----
Total Col1Ave (5 peaks):					124.9	Total Col2Ave (4 peaks):				129.8 RPD = 4
Corrected Ave (4 peaks):					122.7	Corrected Ave (3 peaks):				121.0 RPD = 1
Aroclor-1262	1	10.823	-0.025	80634	330.0	1	11.202	-0.016	24959	80.5
Aroclor-1262	2	12.246	-0.016	19110	50.3	2	11.655	-0.015	26848	100.0
Aroclor-1262	3	12.319	-0.017	23506	57.9	3	12.434	-0.017	22451	75.8
Aroclor-1262	4	12.985	-0.020	22828	70.1	4	12.500	-0.019	43523	93.8
Total Col1Ave (4 peaks):					127.1	Total Col2Ave (4 peaks):				87.5 RPD = 37
Corrected Ave (3 peaks):					59.5	Corrected Ave (3 peaks):				83.4 RPD = 33
Aroclor-1268	1	12.246	-0.016	19110	18.7	1	12.434	-0.015	22451	29.2
Aroclor-1268	2	12.319	-0.016	23506	23.5	2	12.500	-0.017	43523	55.1
Aroclor-1268	3	12.723	0.007	10695	13.0	3	12.898	-0.012	816	2.8
Aroclor-1268	4	13.490	-0.016	4702	1.9	4	13.710	-0.016	5539	2.6
Total Col1Ave (4 peaks):					14.3	Total Col2Ave (4 peaks):				22.4 RPD = 44*

Corrected Ave (3 peaks): 11.2 Corrected Ave (3 peaks): 11.5 RPD = 3

Total PCB Area Col1 (5.931 - 13.803) = 1028545 Col1 Total PCB = 0.2 ppm*

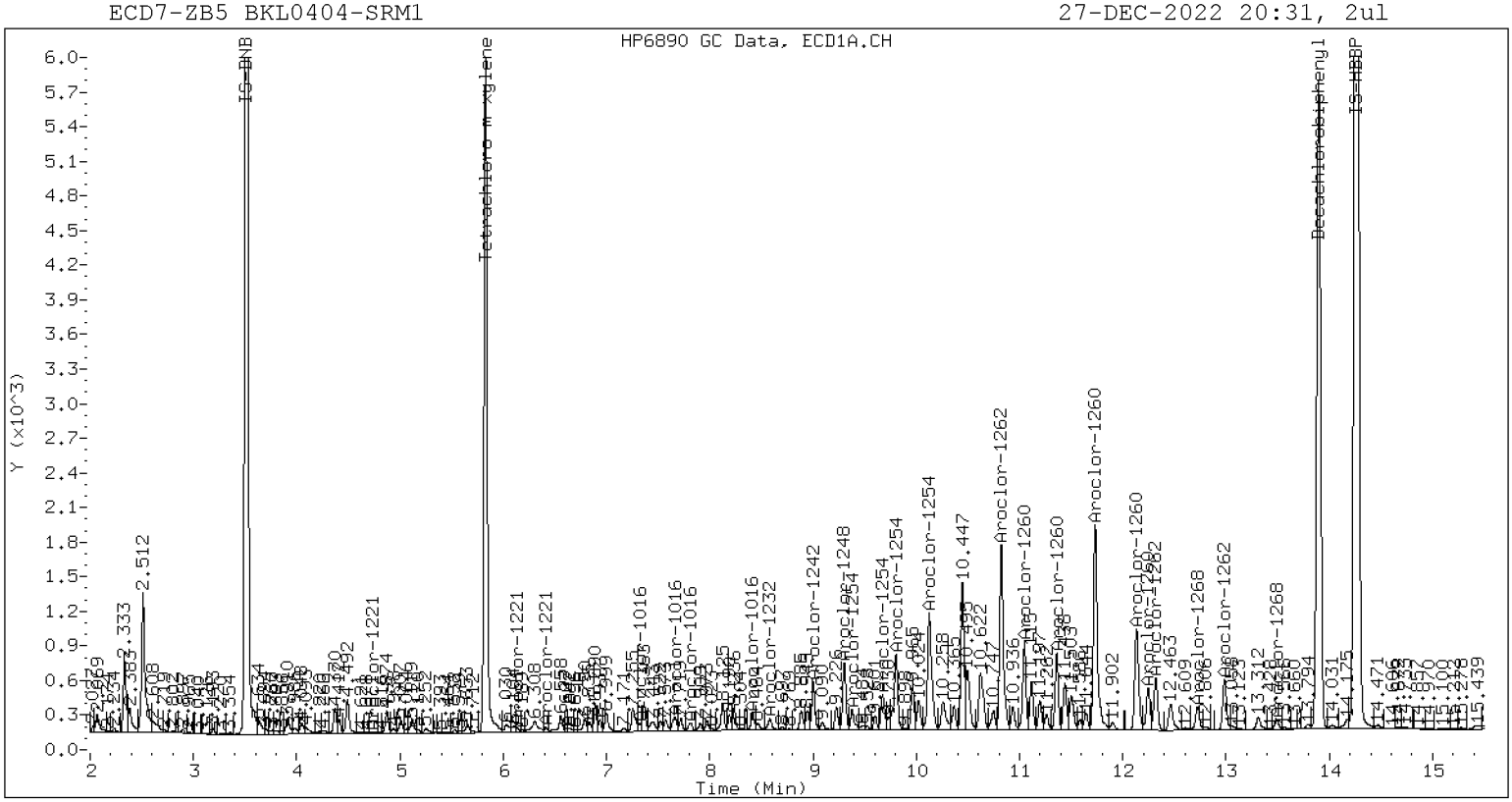
Total PCB Area Col2 (5.809 - 14.028) = 708979 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

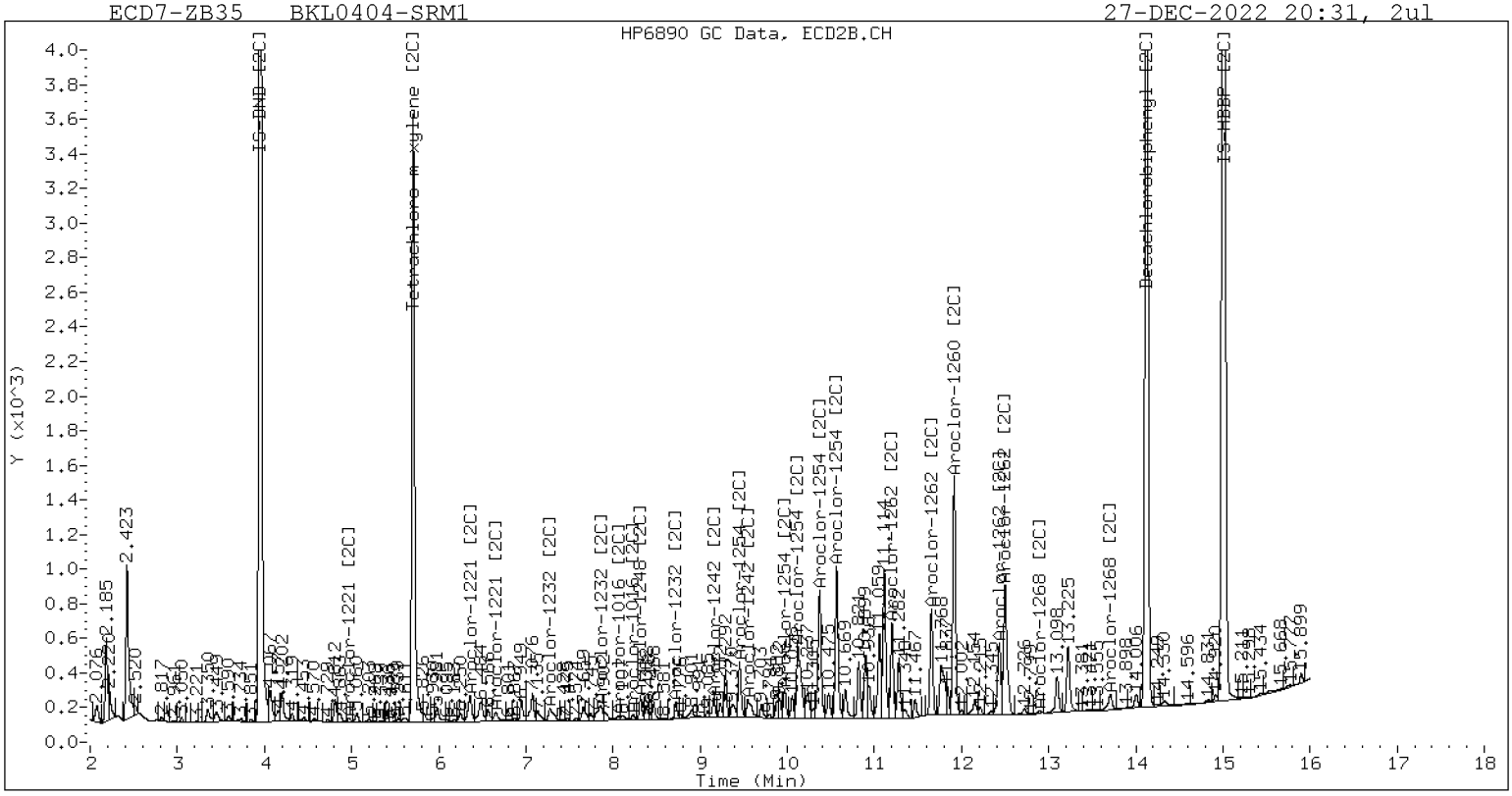
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0404-SRM1 27-DEC-2022 20:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0404-SRM1 27-DEC-2022 20:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0488-SRM1
Batch: BKL0488
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 12/31/2022 12:16
Standard ID: K010815
Expires: 05/17/2023
Standard Lot#: PSRM0164
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	117	2.9	20.0		108	38 - 167
Aroclor 1260 [2C]	108.00	120	2.9	20.0		111	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312207ECD7.D
Data file 2: /221231.b/221231.b/12312207ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0488-SRM1
Client ID:
Injection Date: 31-DEC-2022 12:16
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	264427	5.705	-0.005	165323	35.7	35.8	0.2	Tetrachloro-m-xylene
13.896	-0.005	303171	14.124	-0.006	262342	42.4	40.1	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	522398	16.7
Hexabromobiphenyl	798898	779845	-2.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	336880	35.2
Hexabromobiphenyl	362541	460619	27.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.254	-0.040	21772	124.9	1	7.280	0.006	11626	67.5
Aroclor-1016	2	7.664	-0.021	8978	16.0	2	7.857	-0.018	8984	24.2
Aroclor-1016	3	7.818	0.000	6880	27.0	3	8.061	-0.011	1841	11.5
Aroclor-1016	4	8.416	-0.014	13998	86.1	4	8.229	-0.015	2474	29.5
Total Col1Ave (4 peaks):				63.5		Total Col2Ave (4 peaks):			33.2	RPD = 63*
Corrected Ave (3 peaks):				43.0		Corrected Ave (3 peaks):			21.7	RPD = 66*
Aroclor-1221	1	4.761	0.001	725	16.8	1	4.969	-0.018	709	24.9
Aroclor-1221	2	6.137	-0.022	4216	55.4	2	6.362	0.040	19325	356.6
Aroclor-1221	3	6.414	0.005	3349	19.1	3	6.658	0.013	4698	51.5
Total Col1Ave (3 peaks):				30.4		Total Col2Ave (3 peaks):			144.4	RPD = 130*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.761	0.000	725	27.9	1	4.969	-0.020	709	43.3
Aroclor-1232	2	6.137	-0.023	4216	76.8	2	7.280	0.003	11626	139.0
Aroclor-1232	3	7.664	-0.020	8978	36.4	3	7.857	-0.020	8984	54.9
Aroclor-1232	4	8.584	-0.022	8136	77.8	4	8.722	-0.012	6301	142.1
Total Col1Ave (4 peaks):				54.7		Total Col2Ave (4 peaks):			94.8	RPD = 54*
Corrected Ave (3 peaks):				47.0		Corrected Ave (3 peaks):			79.1	RPD = 51*
Aroclor-1242	1	7.254	-0.035	21772	147.0	1	7.280	0.008	11626	81.5
Aroclor-1242	2	7.664	-0.014	8978	19.1	2	7.857	-0.014	8984	29.7
Aroclor-1242	3	8.416	-0.007	13998	103.5	3	9.156	-0.014	7715	79.0
Aroclor-1242	4	9.002	-0.021	19964	71.1	4	9.549	-0.043	11286	96.2
Total Col1Ave (4 peaks):				85.2		Total Col2Ave (4 peaks):			71.6	RPD = 17
Corrected Ave (3 peaks):				64.6		Corrected Ave (3 peaks):			63.4	RPD = 2
Aroclor-1248	1	8.416	-0.012	13998	62.3	1	8.316	-0.007	6721	48.8
Aroclor-1248	2	8.584	-0.021	8136	28.4	2	8.722	-0.007	6301	43.5
Aroclor-1248	3	9.002	-0.020	19964	38.7	3	9.156	-0.018	7715	43.8
Aroclor-1248	4	9.303	-0.009	28866	114.2	4	9.549	-0.046	11286	54.6
Total Col1Ave (4 peaks):				60.9		Total Col2Ave (4 peaks):			47.7	RPD = 24
Corrected Ave (3 peaks):				43.1		Corrected Ave (3 peaks):			45.4	RPD = 5
Aroclor-1254	1	9.303	-0.019	28866	62.8	1	9.453	-0.008	17847	82.2
Aroclor-1254	2	9.378	-0.024	10687	59.7	2	9.971	-0.007	8798	50.4
Aroclor-1254	3	9.673	-0.021	17250	59.4	3	10.122	-0.008	34447	91.8
Aroclor-1254	4	9.804	-0.027	39098	69.0	4	10.373	-0.005	44145	113.6
Aroclor-1254	5	10.125	-0.064	62554	161.2	5	10.568	-0.007	43586	232.5
Total Col1Ave (5 peaks):				82.4		Total Col2Ave (5 peaks):			114.1	RPD = 32
Corrected Ave (4 peaks):				62.7		Corrected Ave (4 peaks):			84.5	RPD = 30
Aroclor-1260	1	11.047	-0.015	35278	124.3	1	11.656	-0.007	28634	117.8
Aroclor-1260	2	11.361	-0.016	29303	99.8	2	11.917	-0.009	67781	111.1
Aroclor-1260	3	11.732	-0.020	93048	120.6	3	12.436	-0.009	22792	140.3
Aroclor-1260	4	12.133	-0.025	47986	122.1	4	12.501	-0.009	45179	111.1
Aroclor-1260	5	12.246	-0.015	19026	118.3	NS	---			----
Total Col1Ave (5 peaks):				117.0		Total Col2Ave (4 peaks):			120.1	RPD = 3
Corrected Ave (4 peaks):				115.2		Corrected Ave (3 peaks):			113.3	RPD = 2
Aroclor-1262	1	10.823	-0.025	82931	318.0	1	11.203	-0.014	26381	75.3
Aroclor-1262	2	12.246	-0.017	19026	46.9	2	11.656	-0.014	28634	94.4
Aroclor-1262	3	12.319	-0.017	23429	54.1	3	12.436	-0.015	22792	68.1
Aroclor-1262	4	12.985	-0.020	21187	61.0	4	12.501	-0.019	45179	86.2
Total Col1Ave (4 peaks):				120.0		Total Col2Ave (4 peaks):			81.0	RPD = 39
Corrected Ave (3 peaks):				54.0		Corrected Ave (3 peaks):			76.5	RPD = 35
Aroclor-1268	1	12.246	-0.016	19026	17.4	1	12.436	-0.013	22792	26.2
Aroclor-1268	2	12.319	-0.016	23429	22.0	2	12.501	-0.016	45179	50.7
Aroclor-1268	3	12.723	0.007	10313	11.8	3	12.898	-0.012	863	2.6
Aroclor-1268	4	13.490	-0.015	4103	1.5	4	13.710	-0.017	5484	2.3
Total Col1Ave (4 peaks):				13.2		Total Col2Ave (4 peaks):			20.5	RPD = 43*

Corrected Ave (3 peaks): 10.3 Corrected Ave (3 peaks): 10.4 RPD = 1

Total PCB Area Col1 (5.932 - 13.801) = 1230341 Col1 Total PCB = 0.2 ppm*

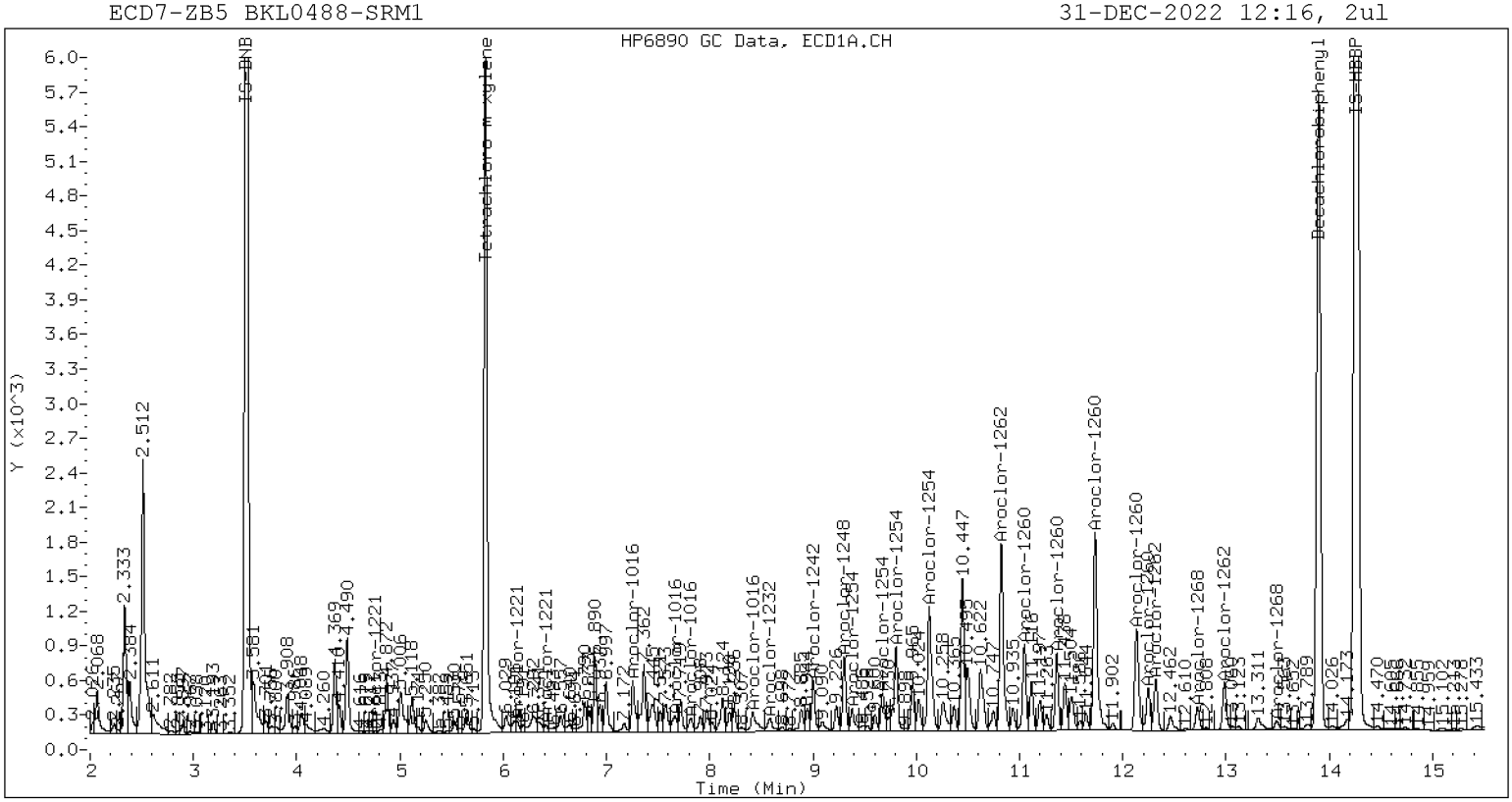
Total PCB Area Col2 (5.810 - 14.030) = 861012 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

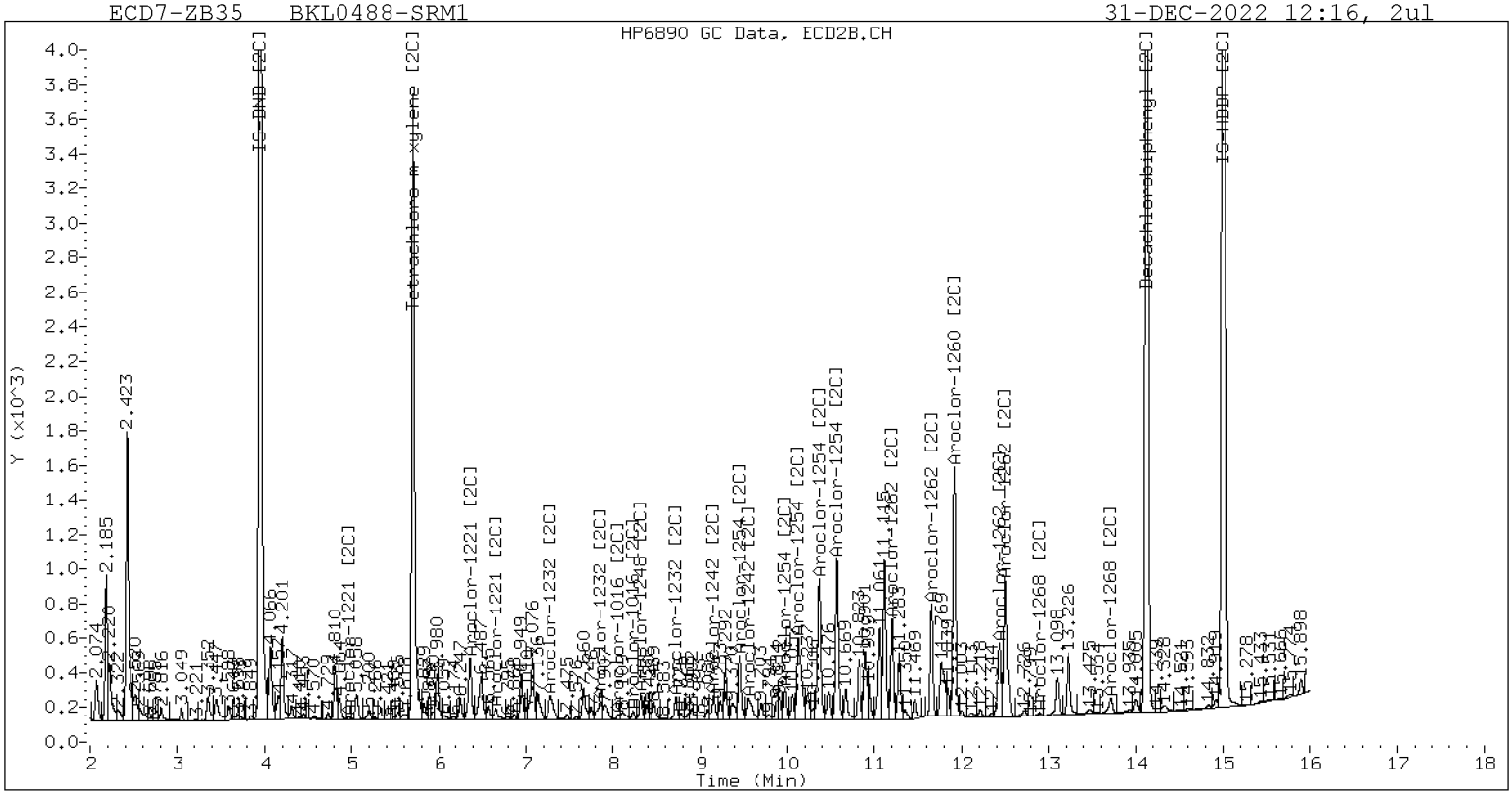
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0488-SRM1 31-DEC-2022 12:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0488-SRM1 31-DEC-2022 12:16, 2ul



ZB-35 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016	250	4.442913E-02	20	4.639571E-02	50	4.556147E-02	1000	3.903737E-02	100	4.740063E-02	500	4.233908E-02
Aroclor-1016 (1)	250	0.0268956	20	2.831682E-02	50	2.733211E-02	1000	2.312039E-02	100	2.907079E-02	500	2.538029E-02
Aroclor-1016 (2)	250	8.716121E-02	20	8.901322E-02	50	8.663465E-02	1000	7.848829E-02	100	9.099677E-02	500	8.464895E-02
Aroclor-1016 (3)	250	3.855698E-02	20	4.367479E-02	50	4.254251E-02	1000	3.139182E-02	100	4.326795E-02	500	3.482108E-02
Aroclor-1016 (4)	250	2.510275E-02	20	2.457802E-02	50	2.573659E-02	1000	2.314899E-02	100	2.626702E-02	500	2.450599E-02
Aroclor 1260	250	3.933402E-02	20	3.911434E-02	50	3.944532E-02	1000	3.674839E-02	100	4.123393E-02	500	3.832917E-02
Aroclor-1260 (1)	250	2.958395E-02	20	0.0300145	50	2.965004E-02	1000	0.0267287	100	3.044201E-02	500	2.830143E-02
Aroclor-1260 (2)	250	3.061257E-02	20	3.036959E-02	50	3.047228E-02	1000	2.827023E-02	100	0.0314491	500	2.953467E-02
Aroclor-1260 (3)	250	7.944504E-02	20	7.975557E-02	50	8.046888E-02	1000	7.412282E-02	100	8.422959E-02	500	7.678876E-02
Aroclor-1260 (4)	250	4.058671E-02	20	3.908843E-02	50	3.991468E-02	1000	3.908356E-02	100	4.249747E-02	500	4.063095E-02
Aroclor-1260 (5)	250	1.644185E-02	20	1.634363E-02	50	1.672073E-02	1000	1.553661E-02	100	1.755145E-02	500	1.639006E-02
Decachlorobiphenyl	40	0.7065182	3.2	0.8368252	8	0.7533014	160	0.6637701	16	0.7576822	80	0.6818994
Tetrachlorometaxylene	40	1.143098	3.2	1.157321	8	1.126881	160	1.081522	16	1.184437	80	1.108767

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221							250	1.504683E-02				
Aroclor-1221 (1)							250	6.613213E-03				
Aroclor-1221 (2)							250	1.165022E-02				
Aroclor-1221 (3)							250	2.687706E-02				
Aroclor 1232									250	0.0165403		
Aroclor-1232 (1)									250	3.980209E-03		
Aroclor-1232 (2)									250	8.407005E-03		
Aroclor-1232 (3)									250	3.775546E-02		
Aroclor-1232 (4)									250	1.601853E-02		
Aroclor 1242	250	3.960003E-02										
Aroclor-1242 (1)	250	2.267549E-02										
Aroclor-1242 (2)	250	0.0719967										
Aroclor-1242 (3)	250	2.071466E-02										
Aroclor-1242 (4)	250	4.301325E-02										
Aroclor 1248			250	4.900615E-02								
Aroclor-1248 (1)			250	3.439698E-02								
Aroclor-1248 (2)			250	4.391715E-02								
Aroclor-1248 (3)			250	7.900514E-02								
Aroclor-1248 (4)			250	3.870534E-02								
Aroclor 1254					250	5.769652E-02						
Aroclor-1254 (1)					250	7.043771E-02						
Aroclor-1254 (2)					250	2.739345E-02						
Aroclor-1254 (3)					250	4.448852E-02						
Aroclor-1254 (4)					250	8.671846E-02						
Aroclor-1254 (5)					250	5.944443E-02						
Aroclor 1262							250	3.710383E-02				
Aroclor-1262 (1)							250	2.675294E-02				
Aroclor-1262 (2)							250	4.159274E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3)							250	4.441976E-02				
Aroclor-1262 (4)							250	0.0356499				
Aroclor 1268									250	0.1462909		
Aroclor-1268 (1)									250	0.1119264		
Aroclor-1268 (2)									250	0.1094959		
Aroclor-1268 (3)									250	8.974437E-02		
Aroclor-1268 (4)									250	0.2739969		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	0.0441939	6.9			RSD (20)	
Aroclor-1016 (1)	0.026686	8.1			RSD (20)	
Aroclor-1016 (2)	8.615718E-02	5.0			RSD (20)	
Aroclor-1016 (3)	3.904252E-02	13.0			RSD (20)	
Aroclor-1016 (4)	2.488989E-02	4.4			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	
Aroclor 1260	0.0390342	3.8			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1)	2.912011E-02	4.7			RSD (20)	
Aroclor-1260 (2)	3.011807E-02	3.6			RSD (20)	
Aroclor-1260 (3)	7.913511E-02	4.3			RSD (20)	
Aroclor-1260 (4)	0.0403003	3.2			RSD (20)	
Aroclor-1260 (5)	1.649739E-02	3.9			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.7333327	8.6			RSD (20)	
Tetrachlorometaxylene	1.133671	3.2			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Aroclor 1016 [2C]	250	4.636996E-02	20	4.892746E-02	50	4.983417E-02	1000	4.130781E-02	100	4.955636E-02	500	4.439044E-02
Aroclor-1016 (1) [2C]	250	4.084306E-02	20	4.420829E-02	50	4.265547E-02	1000	3.510686E-02	100	0.0443387	500	3.826546E-02
Aroclor-1016 (2) [2C]	250	8.779336E-02	20	9.126619E-02	50	9.396419E-02	1000	7.840925E-02	100	9.357078E-02	500	8.428834E-02
Aroclor-1016 (3) [2C]	250	3.650991E-02	20	4.176802E-02	50	4.245186E-02	1000	3.207576E-02	100	3.977512E-02	500	3.472696E-02
Aroclor-1016 (4) [2C]	250	2.033353E-02	20	1.846735E-02	50	2.026517E-02	1000	1.963937E-02	100	2.054085E-02	500	0.020281
Aroclor 1260 [2C]	250	6.221729E-02	20	0.0650374	50	6.381838E-02	1000	5.557609E-02	100	6.547338E-02	500	5.844879E-02
Aroclor-1260 (1) [2C]	250	4.226259E-02	20	4.530508E-02	50	4.502141E-02	1000	3.753653E-02	100	0.0443443	500	3.890007E-02
Aroclor-1260 (2) [2C]	250	0.1084108	20	0.1102753	50	0.109287	1000	9.364812E-02	100	0.1132315	500	0.1009332
Aroclor-1260 (3) [2C]	250	0.0279644	20	2.937953E-02	50	2.834399E-02	1000	2.696653E-02	100	2.956699E-02	500	2.708248E-02
Aroclor-1260 (4) [2C]	250	7.023139E-02	20	7.518967E-02	50	7.262117E-02	1000	0.0641532	100	0.0747507	500	6.687944E-02
Decachlorobiphenyl [2C]	40	1.127762	3.2	1.199521	8	1.131904	160	1.086775	16	1.175985	80	1.092964
Tetrachlorometaxylene [2C]	40	1.103254	3.2	1.151553	8	1.074022	160	1.032691	16	1.152616	80	1.06551

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221 [2C]							250	0.0137578				
Aroclor-1221 (1) [2C]							250	6.751325E-03				
Aroclor-1221 (2) [2C]							250	1.286764E-02				
Aroclor-1221 (3) [2C]							250	2.165445E-02				
Aroclor 1232 [2C]									250	1.828151E-02		
Aroclor-1232 (1) [2C]									250	3.890243E-03		
Aroclor-1232 (2) [2C]									250	1.986677E-02		
Aroclor-1232 (3) [2C]									250	3.883859E-02		
Aroclor-1232 (4) [2C]									250	1.053044E-02		
Aroclor 1242 [2C]	250	3.919814E-02										
Aroclor-1242 (1) [2C]	250	3.385823E-02										
Aroclor-1242 (2) [2C]	250	7.187561E-02										
Aroclor-1242 (3) [2C]	250	2.318837E-02										
Aroclor-1242 (4) [2C]	250	2.787036E-02										
Aroclor 1248 [2C]			250	3.948755E-02								
Aroclor-1248 (1) [2C]			250	3.268192E-02								
Aroclor-1248 (2) [2C]			250	3.437347E-02								
Aroclor-1248 (3) [2C]			250	4.181202E-02								
Aroclor-1248 (4) [2C]			250	0.0490828								
Aroclor 1254 [2C]					250	6.380467E-02						
Aroclor-1254 (1) [2C]					250	5.157979E-02						
Aroclor-1254 (2) [2C]					250	4.146889E-02						
Aroclor-1254 (3) [2C]					250	8.913704E-02						
Aroclor-1254 (4) [2C]					250	0.092314						
Aroclor-1254 (5) [2C]					250	4.452362E-02						
Aroclor 1262 [2C]							250	6.566399E-02				
Aroclor-1262 (1) [2C]							250	6.082829E-02				
Aroclor-1262 (2) [2C]							250	5.268389E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3) [2C]							250	5.811375E-02				
Aroclor-1262 (4) [2C]							250	9.103002E-02				
Aroclor 1268 [2C]									250	0.1941199		
Aroclor-1268 (1) [2C]									250	0.1510112		
Aroclor-1268 (2) [2C]									250	0.1548399		
Aroclor-1268 (3) [2C]									250	5.741847E-02		
Aroclor-1268 (4) [2C]									250	0.4132099		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	4.673103E-02	7.3			RSD (20)	
Aroclor-1016 (1) [2C]	4.090297E-02	8.9			RSD (20)	
Aroclor-1016 (2) [2C]	8.821535E-02	6.9			RSD (20)	
Aroclor-1016 (3) [2C]	0.0378846	10.9			RSD (20)	
Aroclor-1016 (4) [2C]	1.992121E-02	3.9			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	
Aroclor 1260 [2C]	6.176189E-02	6.4			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1) [2C]	4.222833E-02	7.8			RSD (20)	
Aroclor-1260 (2) [2C]	0.1059643	6.9			RSD (20)	
Aroclor-1260 (3) [2C]	2.821732E-02	3.9			RSD (20)	
Aroclor-1260 (4) [2C]	7.063759E-02	6.3			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.135818	3.9			RSD (20)	
Tetrachlorometaxylene [2C]	1.096608	4.4			RSD (20)	

Printed: 12/6/2022 9:25:24AM

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032210ECD7.D
Data file 2: /221203.b/221203.b/12032210ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 03-DEC-2022 17:58
Report Date: 12/05/2022 13:27
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	239778	5.713	-0.000	128576	38.5	38.5	0.1	Tetrachloro-m-xylene
13.907	-0.001	273387	14.135	-0.002	193829	39.5	39.9	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	439478	-1.8
Hexabromobiphenyl	798898	755658	-5.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	243327	-2.3
Hexabromobiphenyl	362541	342503	-5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 14711 Col1 Total PCB = 0.0 ppm*

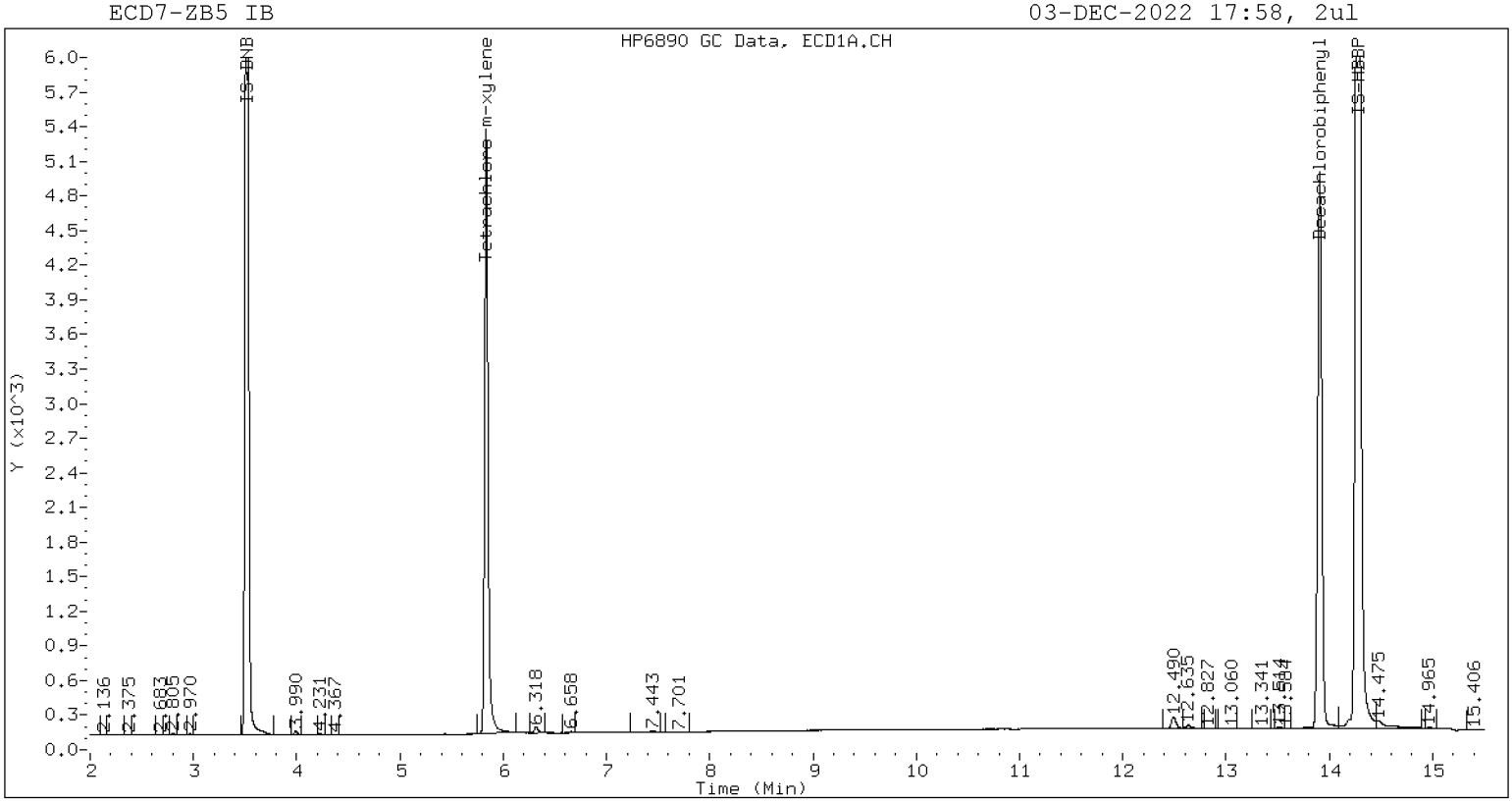
Total PCB Area Col2 (5.936 - 13.808) = 6305 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

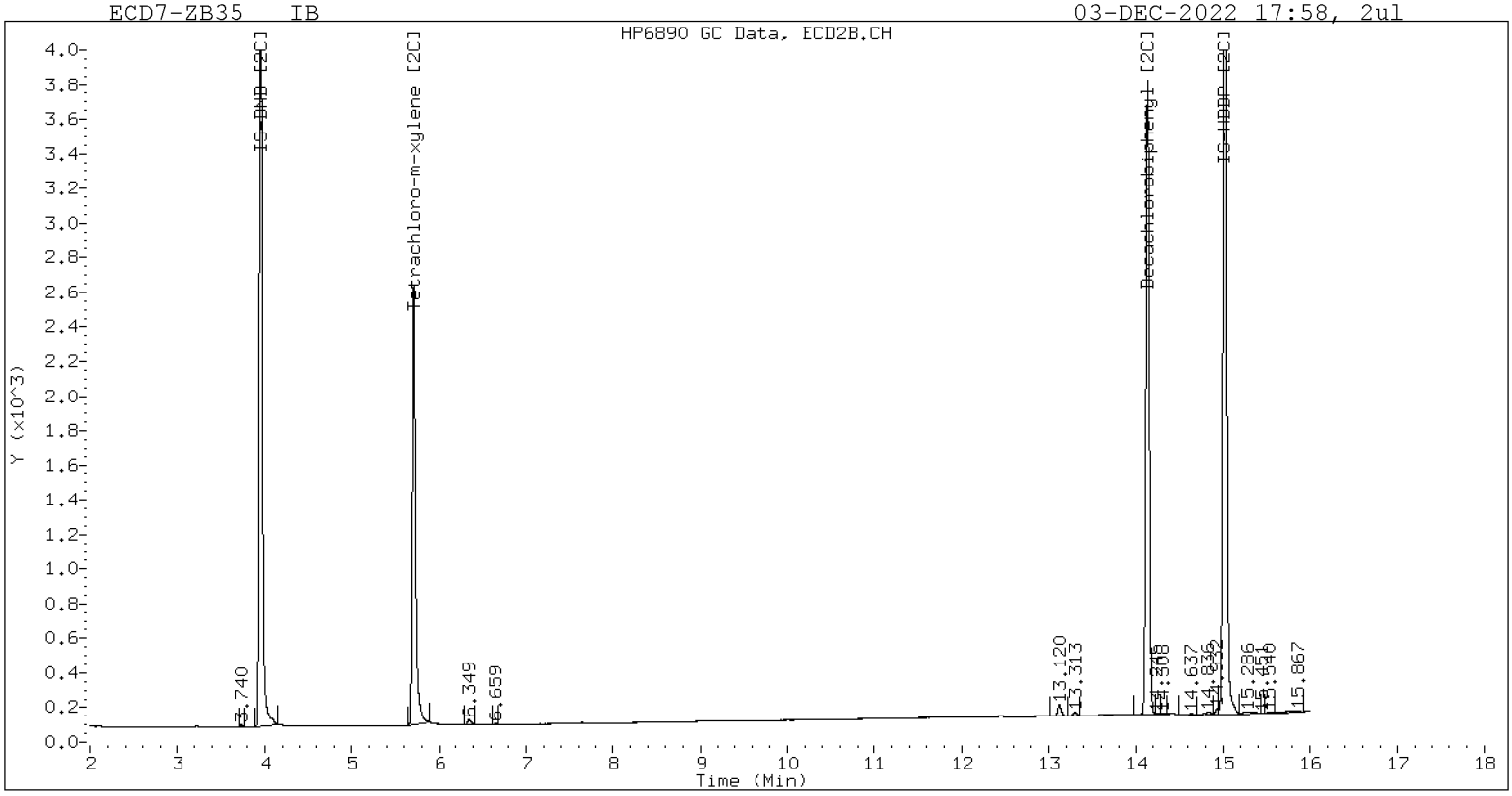
PCB Dual Column Chromatograms

ECD7-ZB5 IB 03-DEC-2022 17:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 03-DEC-2022 17:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032211ECD7.D
Data file 2: /221203.b/221203.b/12032211ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:19
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	255851	5.713	-0.000	137407	40.3	40.2	0.2	Tetrachloro-m-xylene
13.908	-0.001	282218	14.135	-0.001	204430	38.5	39.7	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	447645	0.0
Hexabromobiphenyl	798898	798898	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	249094	0.0
Hexabromobiphenyl	362541	362541	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.293	0.001	37624	252.0	1	7.277	0.002	31793	249.6
Aroclor-1016	2	7.679	0.005	121929	252.9	2	7.873	0.002	68340	248.8
Aroclor-1016	3	7.813	0.003	53937	246.9	3	8.072	0.002	28420	240.9
Aroclor-1016	4	8.426	0.002	35116	252.1	4	8.243	0.002	15828	255.2
Total Col1Ave (4 peaks):					251.0	Total Col2Ave (4 peaks):				248.6 RPD = 1
Corrected Ave (3 peaks):					250.3	Corrected Ave (3 peaks):				246.5 RPD = 2
CalAmt %D:					0.4	CalAmt %D:				-0.5
Aroclor-1260	1	11.062	0.001	73858	254.0	1	11.670	0.001	47881	250.2
Aroclor-1260	2	11.378	0.000	76426	254.1	2	11.933	0.000	122823	255.8
Aroclor-1260	3	11.752	0.002	198339	251.0	3	12.452	0.001	31682	247.8
Aroclor-1260	4	12.156	0.002	101327	251.8	4	12.518	0.001	79568	248.6
Aroclor-1260	5	12.262	0.002	41048	249.2	NS	---			----
Total Col1Ave (5 peaks):					252.0	Total Col2Ave (4 peaks):				250.6 RPD = 1
Corrected Ave (4 peaks):					251.5	Corrected Ave (3 peaks):				248.8 RPD = 1
CalAmt %D:					0.8	CalAmt %D:				0.2

Total PCB Area Col1 (5.936 - 13.808) = 2139467 Col1 Total PCB = 0.4 ppm*

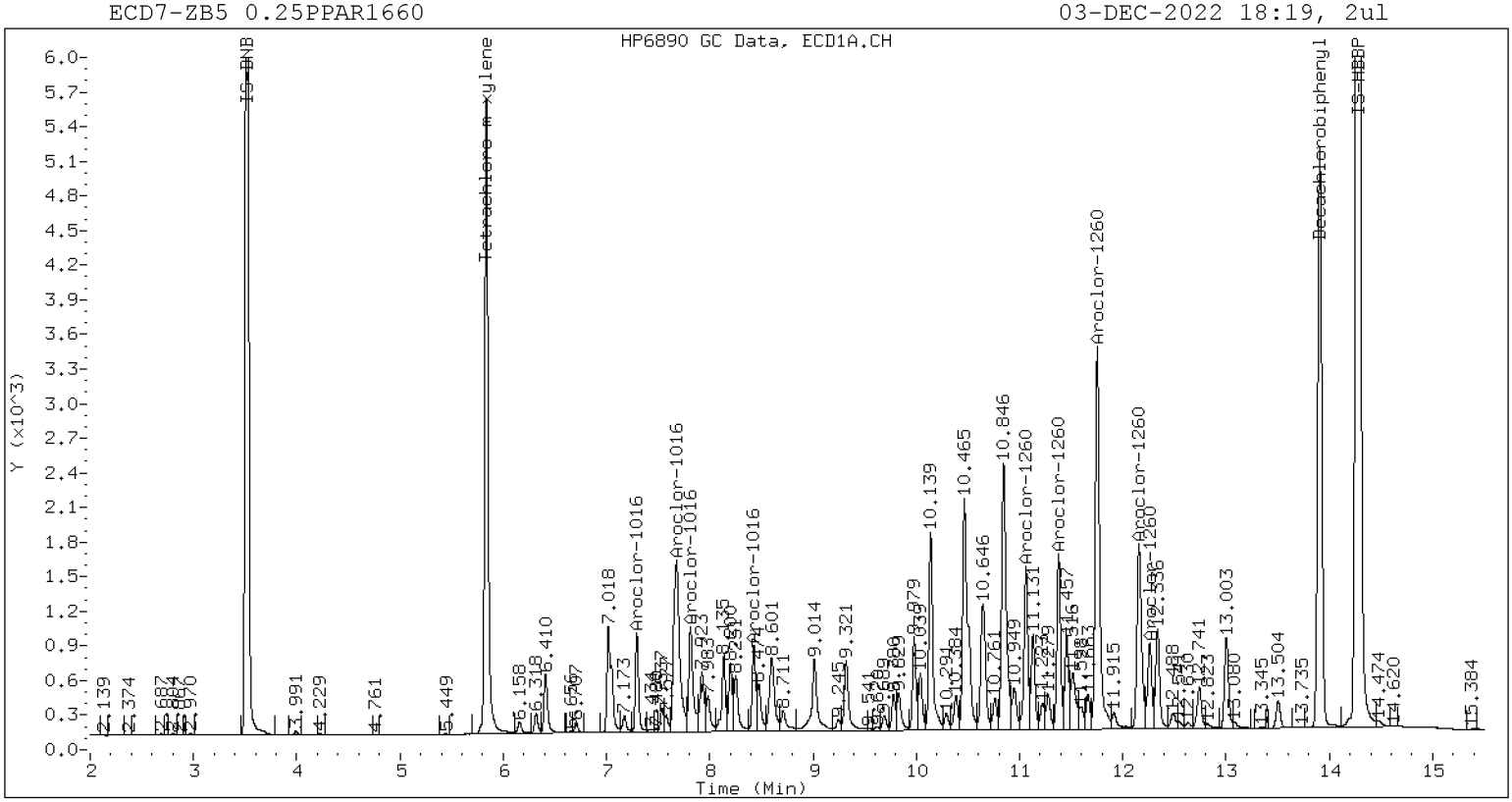
Total PCB Area Col2 (5.936 - 13.808) = 1168134 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

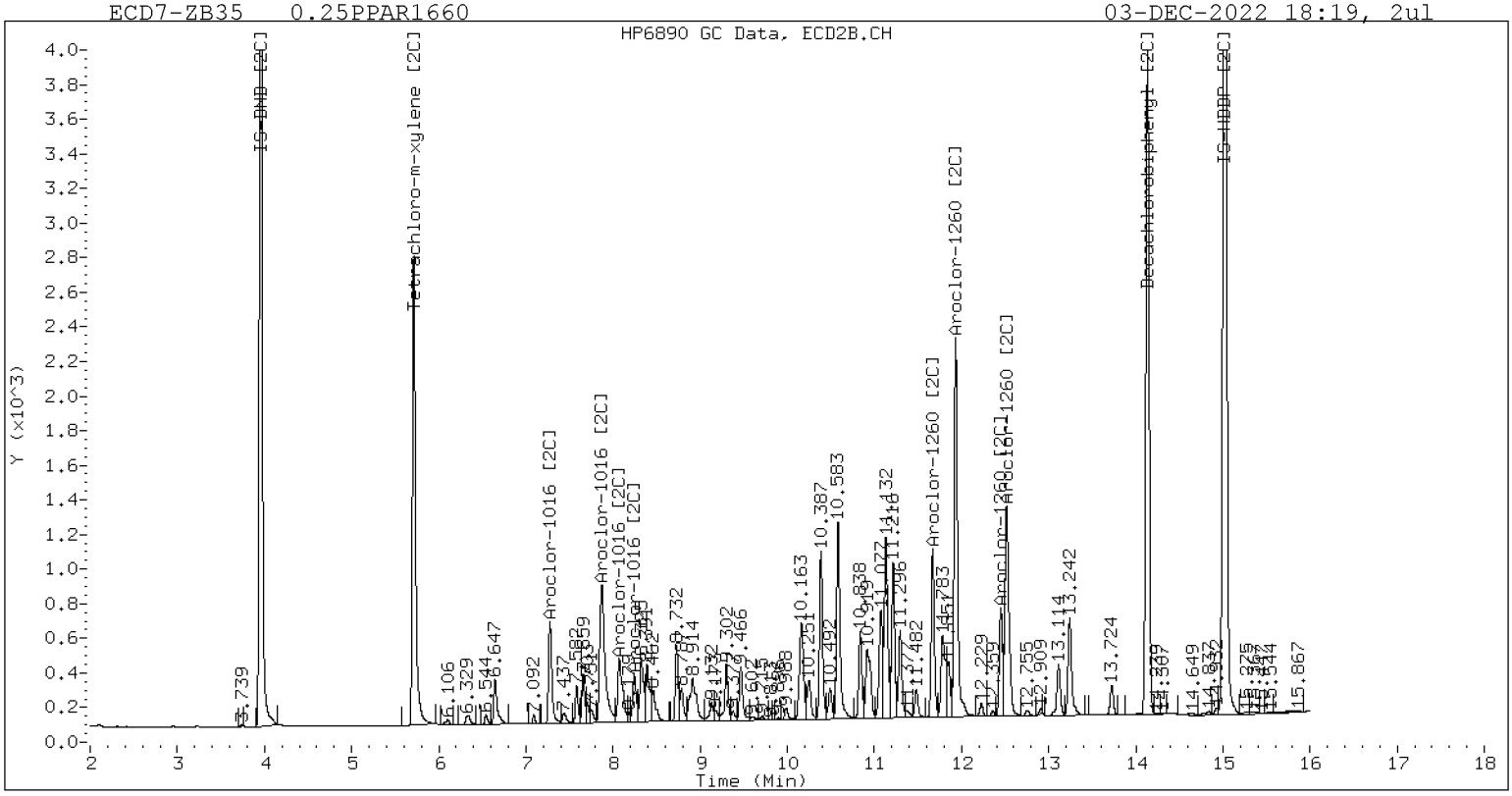
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032212ECD7.D
Data file 2: /221203.b/221203.b/12032212ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:40
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	21148	5.713	-0.000	11703	3.3	3.4	2.8	Tetrachloro-m-xylene
13.907	-0.002	27903	14.135	-0.002	17860	3.7	3.4	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	456831	2.1
Hexabromobiphenyl	798898	833597	4.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254070	2.0
Hexabromobiphenyl	362541	372232	2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	0.002	3234	21.2	1	7.276	0.001	2808	21.6
Aroclor-1016	2	7.687	0.013	10166	20.7	2	7.879	0.009	5797	20.7
Aroclor-1016	3	7.819	0.009	4988	22.4	3	8.077	0.007	2653	22.1
Aroclor-1016	4	8.430	0.006	2807	19.7	4	8.249	0.008	1173	18.5
Total Col1Ave (4 peaks):					21.0	Total Col2Ave (4 peaks):				20.7 RPD = 1
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				20.3 RPD = 1
CalAmt %D:					5.0	CalAmt %D:				3.6
Aroclor-1260	1	11.066	0.004	6255	20.6	1	11.672	0.003	4216	21.5
Aroclor-1260	2	11.382	0.004	6329	20.2	2	11.937	0.005	10262	20.8
Aroclor-1260	3	11.758	0.008	16621	20.2	3	12.453	0.002	2734	20.8
Aroclor-1260	4	12.162	0.008	8146	19.4	4	12.521	0.004	6997	21.3
Aroclor-1260	5	12.264	0.004	3406	19.8	NS	---			----
Total Col1Ave (5 peaks):					20.0	Total Col2Ave (4 peaks):				21.1 RPD = 5
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.0 RPD = 5
CalAmt %D:					0.2	CalAmt %D:				5.5

Total PCB Area Col1 (5.936 - 13.808) = 188011 Col1 Total PCB = 0.0 ppm*

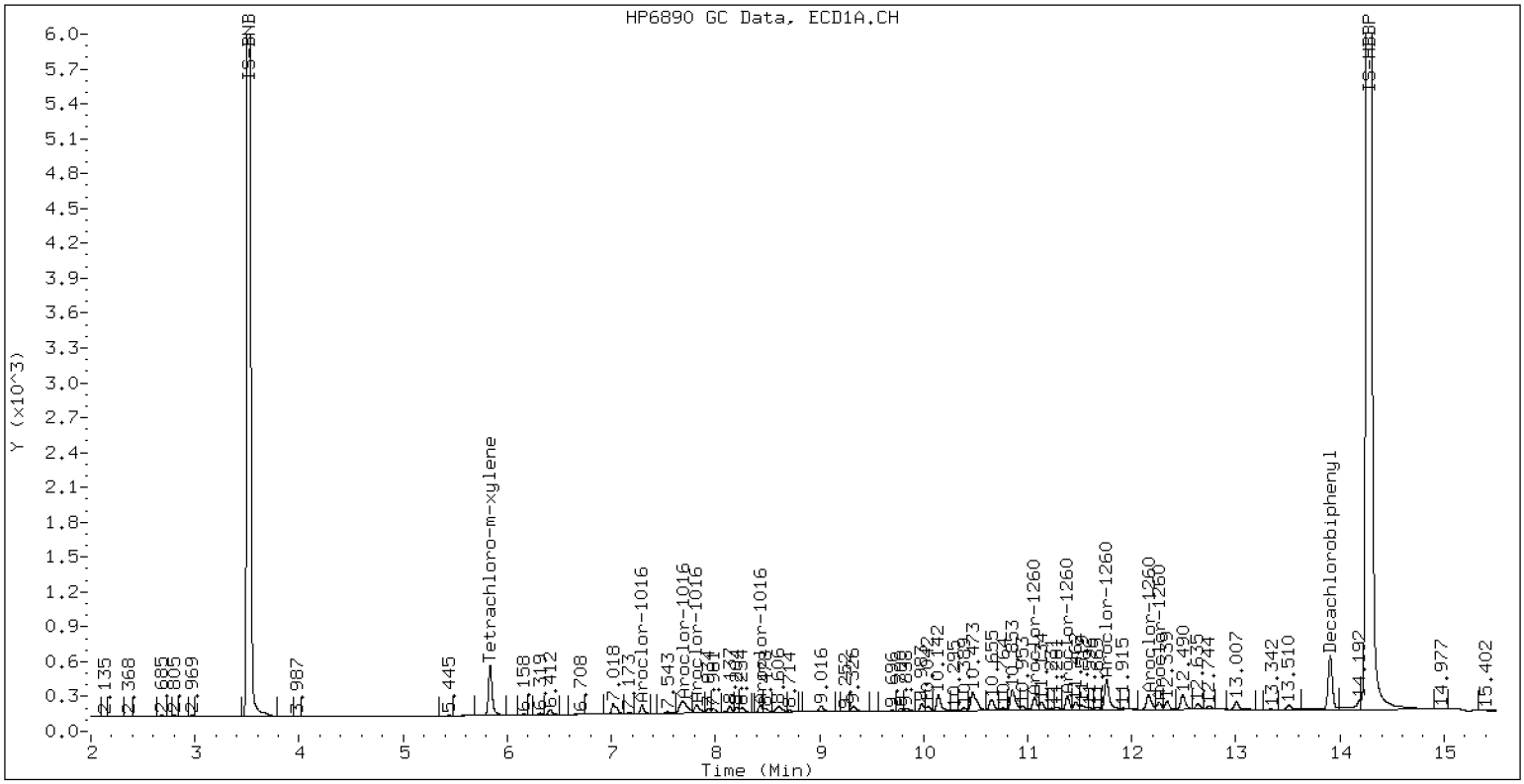
Total PCB Area Col2 (5.936 - 13.808) = 100527 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

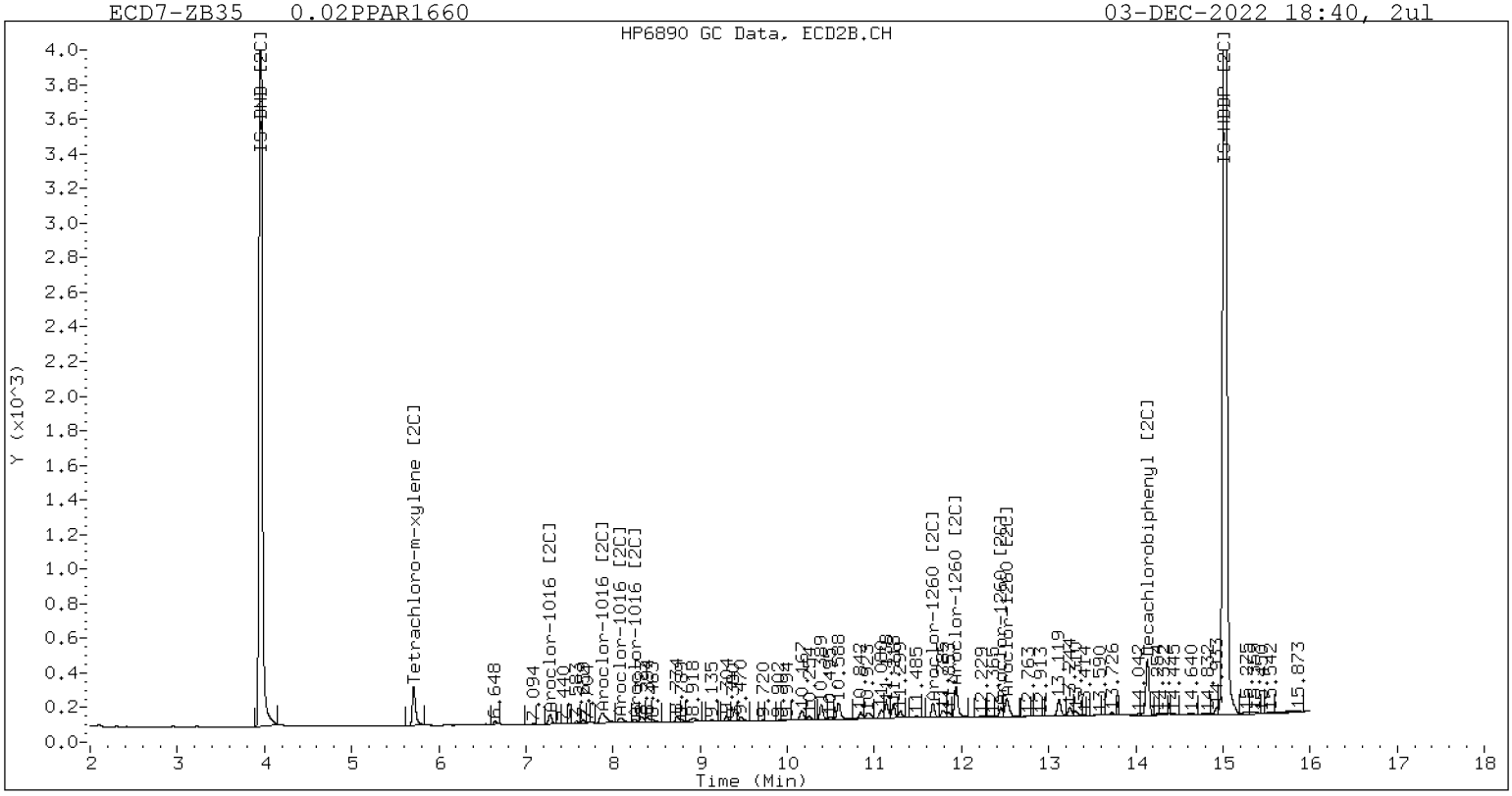
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032213ECD7.D
Data file 2: /221203.b/221203.b/12032213ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPAR1660
Client ID:
Injection Date: 03-DEC-2022 19:01
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	51078	5.713	-0.000	27008	8.0	7.8	1.5	Tetrachloro-m-xylene
13.907	-0.001	63325	14.137	-0.000	42829	8.2	8.0	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453269	1.3
Hexabromobiphenyl	798898	840633	5.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251466	1.0
Hexabromobiphenyl	362541	378380	4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.294	0.002	7743	51.2	1	7.277	0.002	6704	52.1
Aroclor-1016	2	7.686	0.012	24543	50.3	2	7.879	0.008	14768	53.3
Aroclor-1016	3	7.818	0.008	12052	54.5	3	8.078	0.007	6672	56.0
Aroclor-1016	4	8.429	0.005	7291	51.7	4	8.249	0.007	3185	50.9
Total Col1Ave (4 peaks):					51.9	Total Col2Ave (4 peaks):				53.1 RPD = 2
Corrected Ave (3 peaks):					51.1	Corrected Ave (3 peaks):				52.1 RPD = 2
CalAmt %D:					3.8	CalAmt %D:				6.1
Aroclor-1260	1	11.066	0.004	15578	50.9	1	11.673	0.003	10647	53.3
Aroclor-1260	2	11.382	0.005	16010	50.6	2	11.937	0.004	25845	51.6
Aroclor-1260	3	11.757	0.007	42278	50.8	3	12.454	0.002	6703	50.2
Aroclor-1260	4	12.160	0.006	20971	49.5	4	12.520	0.004	17174	51.4
Aroclor-1260	5	12.263	0.004	8785	50.7	NS	---			----
Total Col1Ave (5 peaks):					50.5	Total Col2Ave (4 peaks):				51.6 RPD = 2
Corrected Ave (4 peaks):					50.4	Corrected Ave (3 peaks):				51.1 RPD = 1
CalAmt %D:					1.0	CalAmt %D:				3.3

Total PCB Area Col1 (5.936 - 13.808) = 457627 Col1 Total PCB = 0.1 ppm*

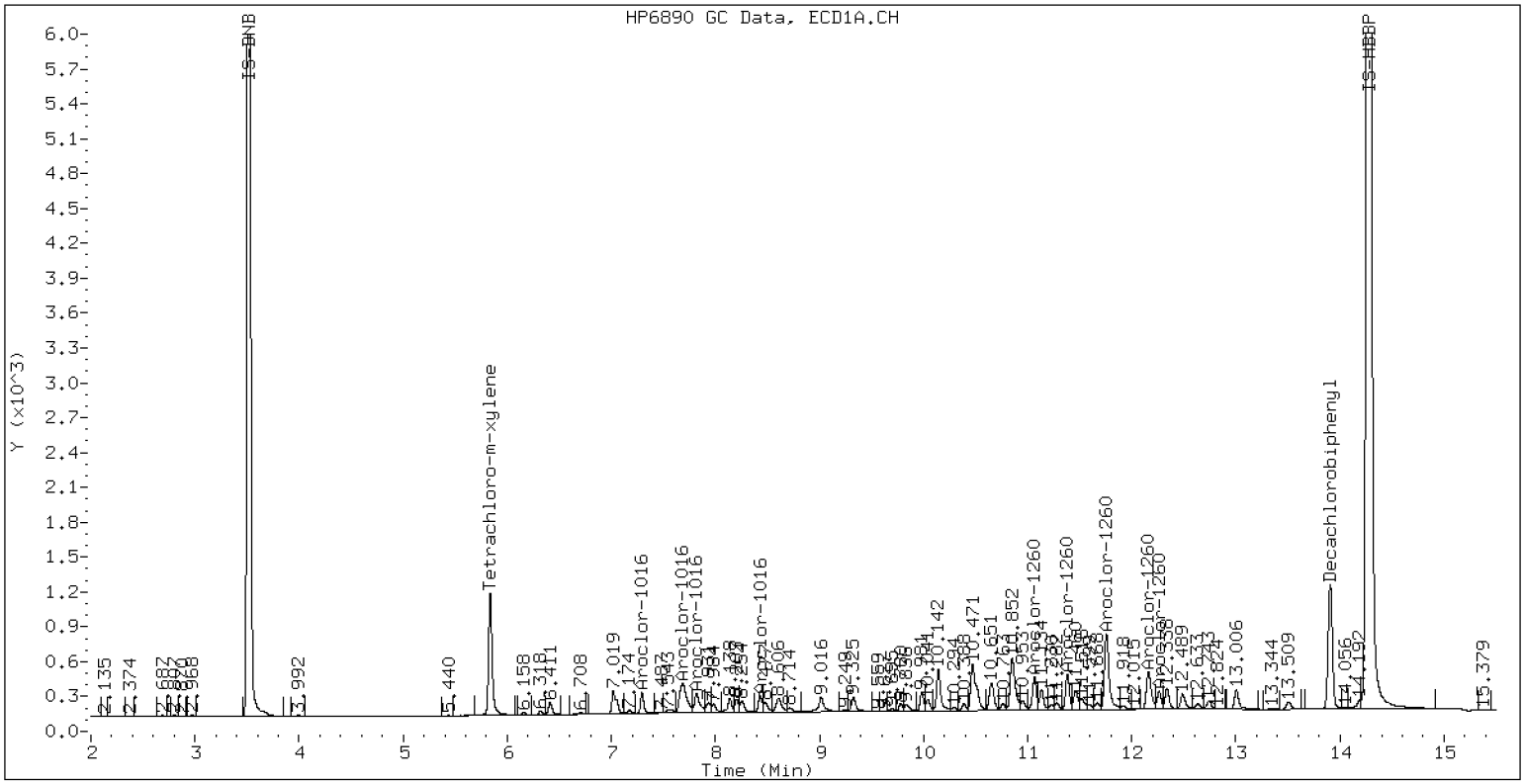
Total PCB Area Col2 (5.936 - 13.808) = 253240 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

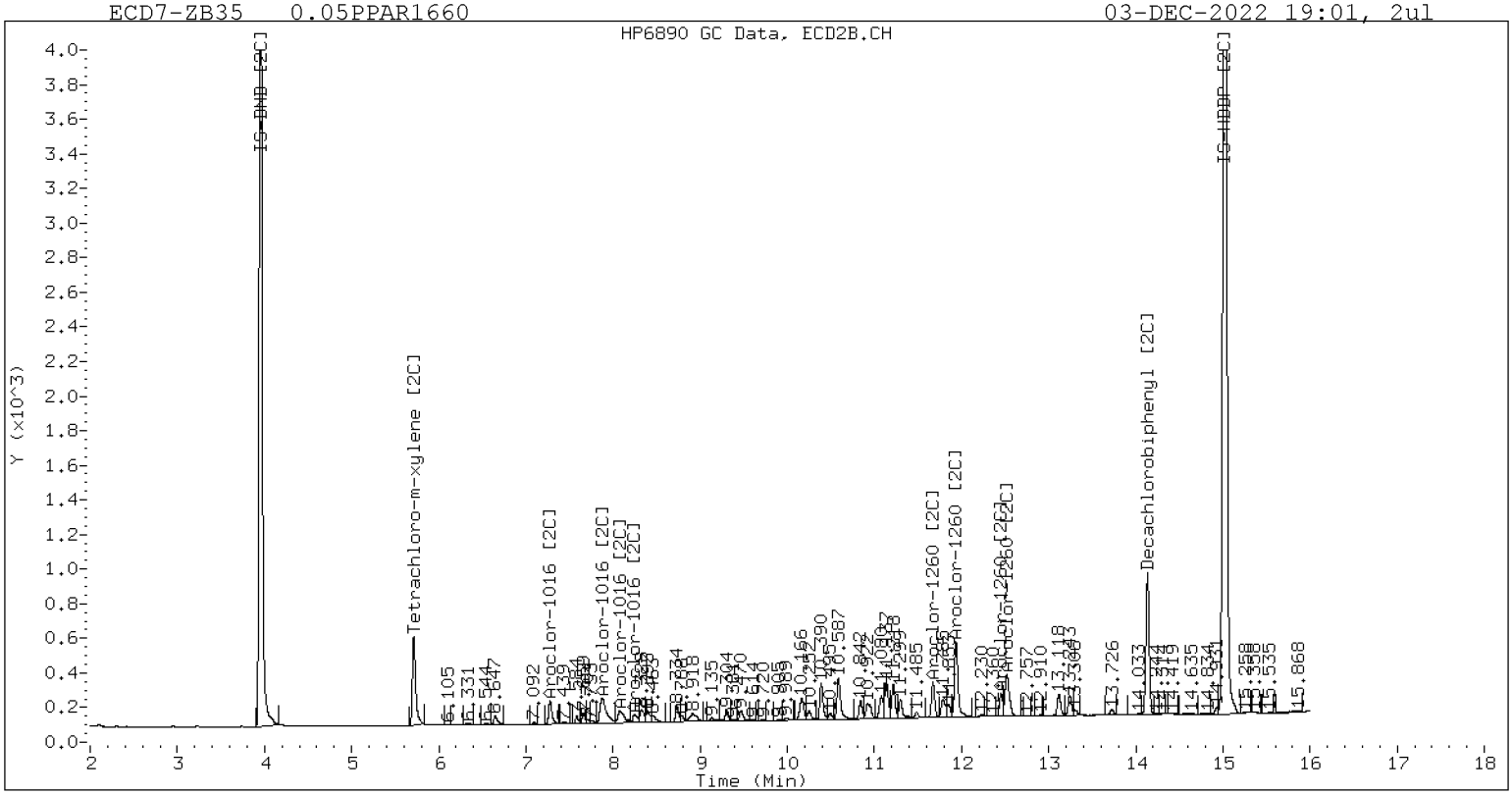
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032214ECD7.D
Data file 2: /221203.b/221203.b/12032214ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:23
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	1010529	5.712	-0.002	531708	152.6	150.7	1.3	Tetrachloro-m-xylene
13.908	-0.001	1103073	14.137	-0.000	836962	144.8	153.1	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	467179	4.4
Hexabromobiphenyl	798898	830915	4.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257438	3.3
Hexabromobiphenyl	362541	385067	6.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.291	-0.001	135017	866.4	1	7.276	0.001	112973	858.3
Aroclor-1016	2	7.671	-0.003	458351	911.0	2	7.869	-0.001	252319	888.8
Aroclor-1016	3	7.807	-0.003	183320	804.0	3	8.068	-0.002	103219	846.7
Aroclor-1016	4	8.423	-0.001	135184	930.1	4	8.239	-0.002	63199	985.9
	Total Col1Ave (4 peaks):				877.9	Total Col2Ave (4 peaks):				894.9 RPD = 2
	Corrected Ave (3 peaks):				860.5	Corrected Ave (3 peaks):				864.6 RPD = 0
	CalAmt %D:				-12.2	CalAmt %D:				-10.5
Aroclor-1260	1	11.058	-0.003	277616	917.9	1	11.668	-0.002	180676	888.9
Aroclor-1260	2	11.375	-0.002	293627	938.6	2	11.930	-0.002	450760	883.8
Aroclor-1260	3	11.748	-0.002	769872	936.7	3	12.449	-0.002	129799	955.7
Aroclor-1260	4	12.151	-0.003	405939	969.8	4	12.514	-0.002	308791	908.2
Aroclor-1260	5	12.259	-0.001	161370	941.8	NS	---			----
	Total Col1Ave (5 peaks):				941.0	Total Col2Ave (4 peaks):				909.1 RPD = 3
	Corrected Ave (4 peaks):				933.7	Corrected Ave (3 peaks):				893.6 RPD = 4
	CalAmt %D:				-5.9	CalAmt %D:				-9.1

Total PCB Area Col1 (5.936 - 13.808) = 7995465 Col1 Total PCB = 1.5 ppm*

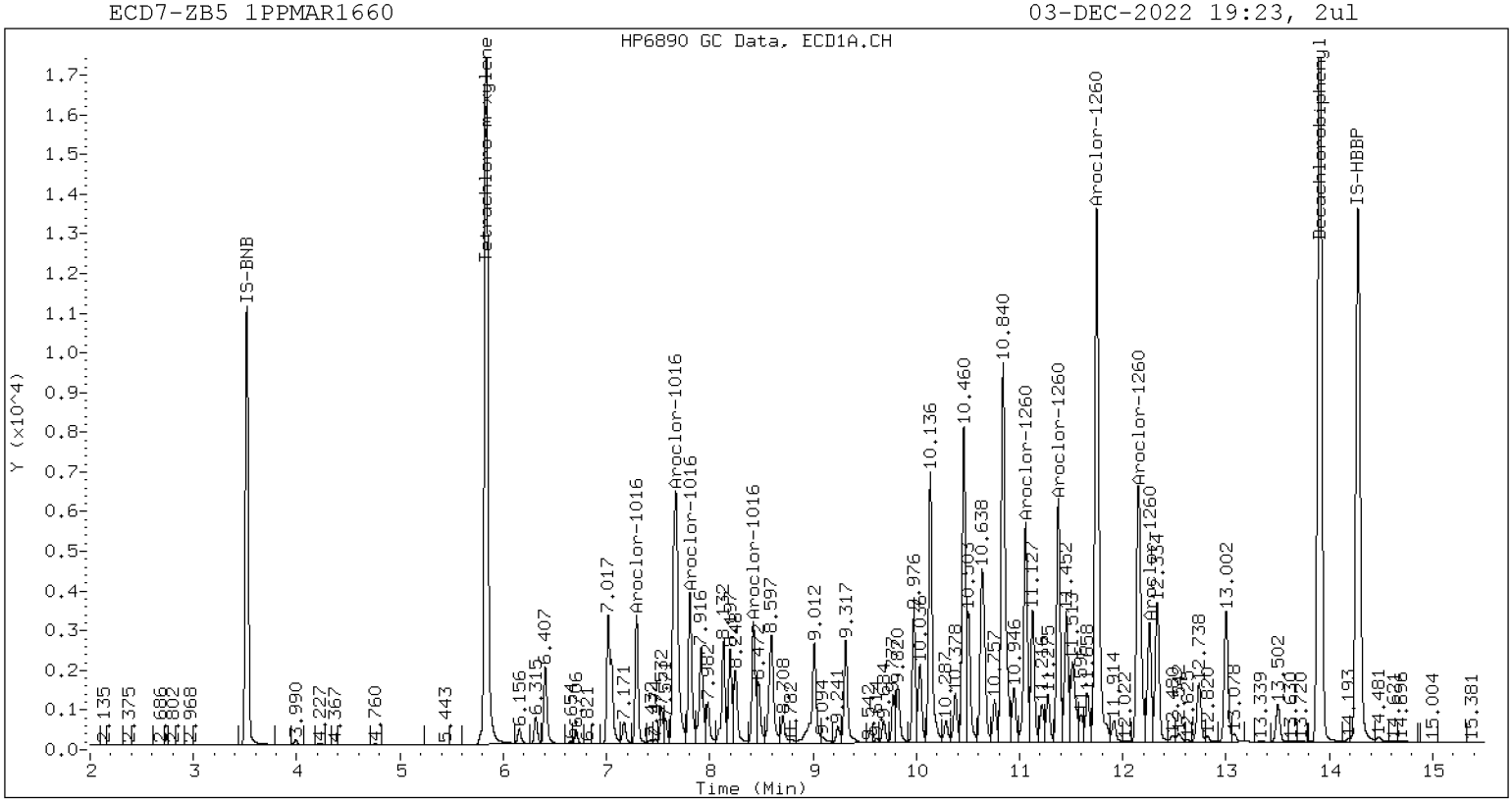
Total PCB Area Col2 (5.936 - 13.808) = 4426537 Col2 Total PCB = 2.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

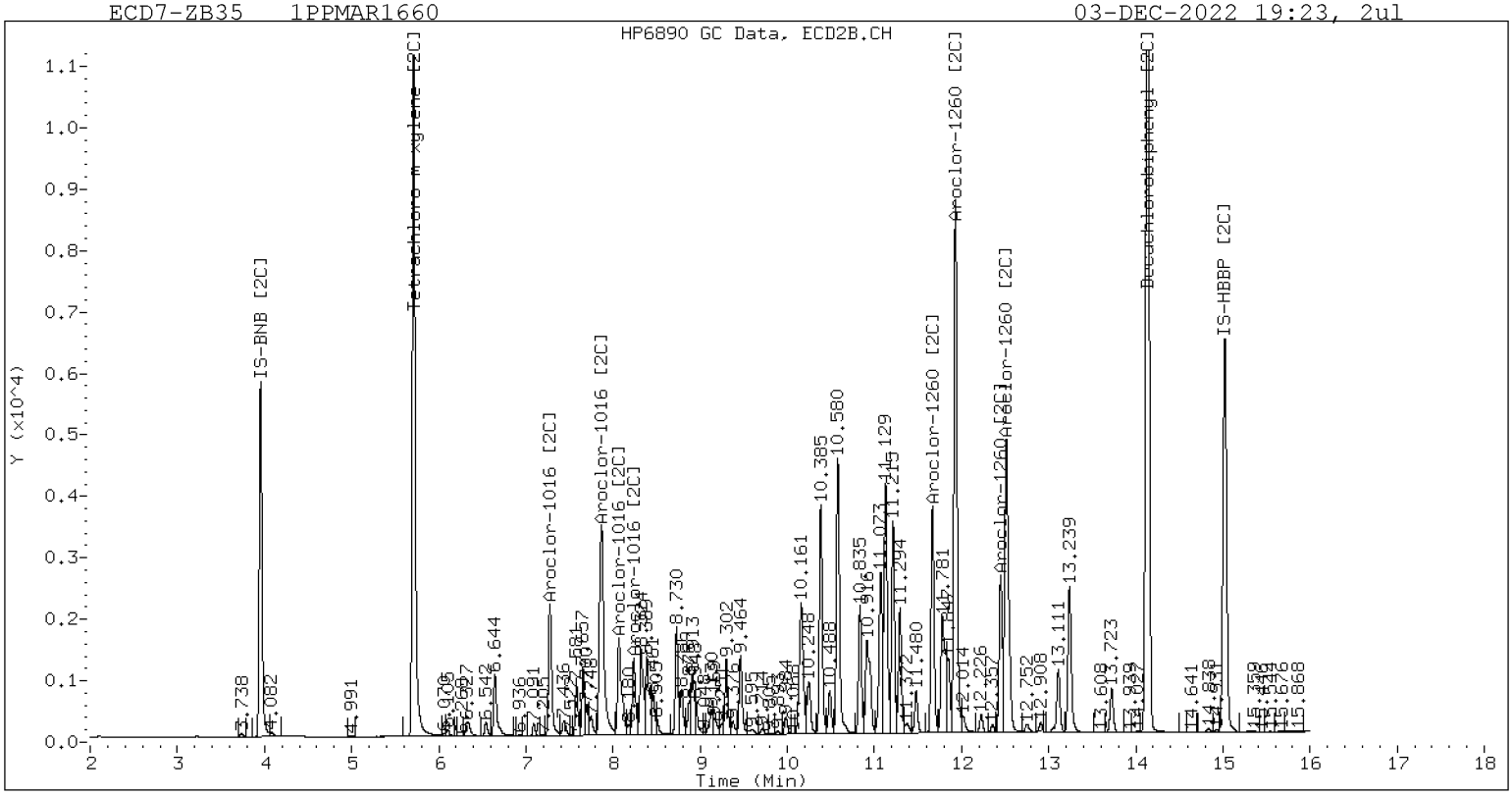
PCB Dual Column Chromatograms

ECD7-ZB5 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032215ECD7.D
Data file 2: /221203.b/221203.b/12032215ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:44
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	108416	5.713	-0.000	58717	16.7	16.8	0.6	Tetrachloro-m-xylene
13.907	-0.002	126876	14.136	-0.001	91231	16.5	16.6	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	457669	2.2
Hexabromobiphenyl	798898	837264	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254712	2.3
Hexabromobiphenyl	362541	387892	7.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	16631	108.9	1	7.277	0.001	14117	108.4
Aroclor-1016	2	7.680	0.007	52058	105.6	2	7.876	0.006	29792	106.1
Aroclor-1016	3	7.816	0.006	24753	110.8	3	8.076	0.005	12664	105.0
Aroclor-1016	4	8.428	0.004	15027	105.5	4	8.247	0.006	6540	103.1
Total Col1Ave (4 peaks):					107.7	Total Col2Ave (4 peaks):				105.6 RPD = 2
Corrected Ave (3 peaks):					106.7	Corrected Ave (3 peaks):				104.7 RPD = 2
CalAmt %D:					7.7	CalAmt %D:				5.6
Aroclor-1260	1	11.064	0.003	31860	104.5	1	11.671	0.002	21501	105.0
Aroclor-1260	2	11.381	0.003	32914	104.4	2	11.935	0.003	54902	106.9
Aroclor-1260	3	11.756	0.006	88153	106.4	3	12.453	0.002	14336	104.8
Aroclor-1260	4	12.159	0.005	44477	105.5	4	12.520	0.004	36244	105.8
Aroclor-1260	5	12.262	0.002	18369	106.4	NS	---			----
Total Col1Ave (5 peaks):					105.4	Total Col2Ave (4 peaks):				105.6 RPD = 0
Corrected Ave (4 peaks):					105.2	Corrected Ave (3 peaks):				105.2 RPD = 0
CalAmt %D:					5.4	CalAmt %D:				5.6

Total PCB Area Col1 (5.936 - 13.808) = 933356 Col1 Total PCB = 0.2 ppm*

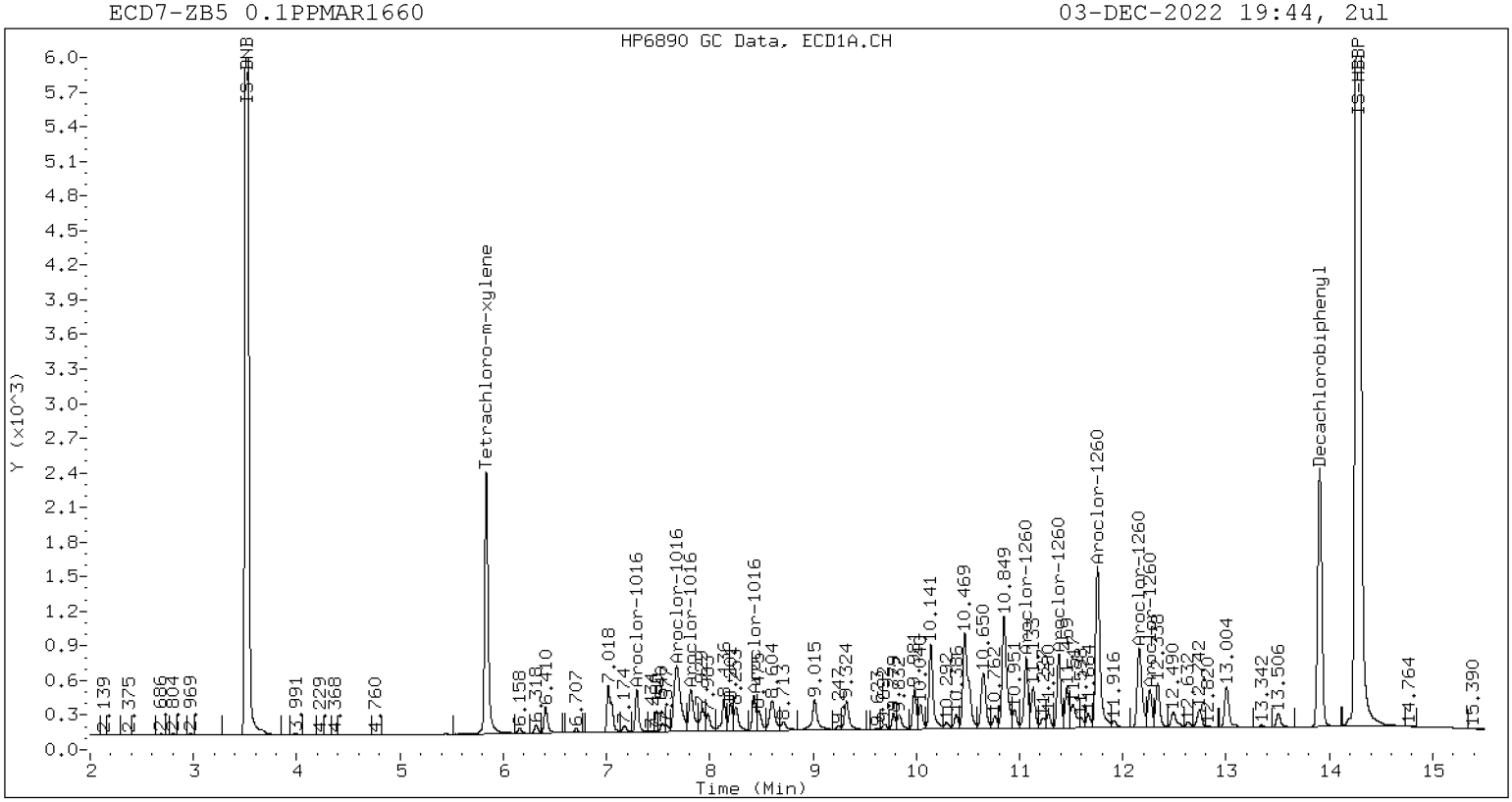
Total PCB Area Col2 (5.936 - 13.808) = 523507 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

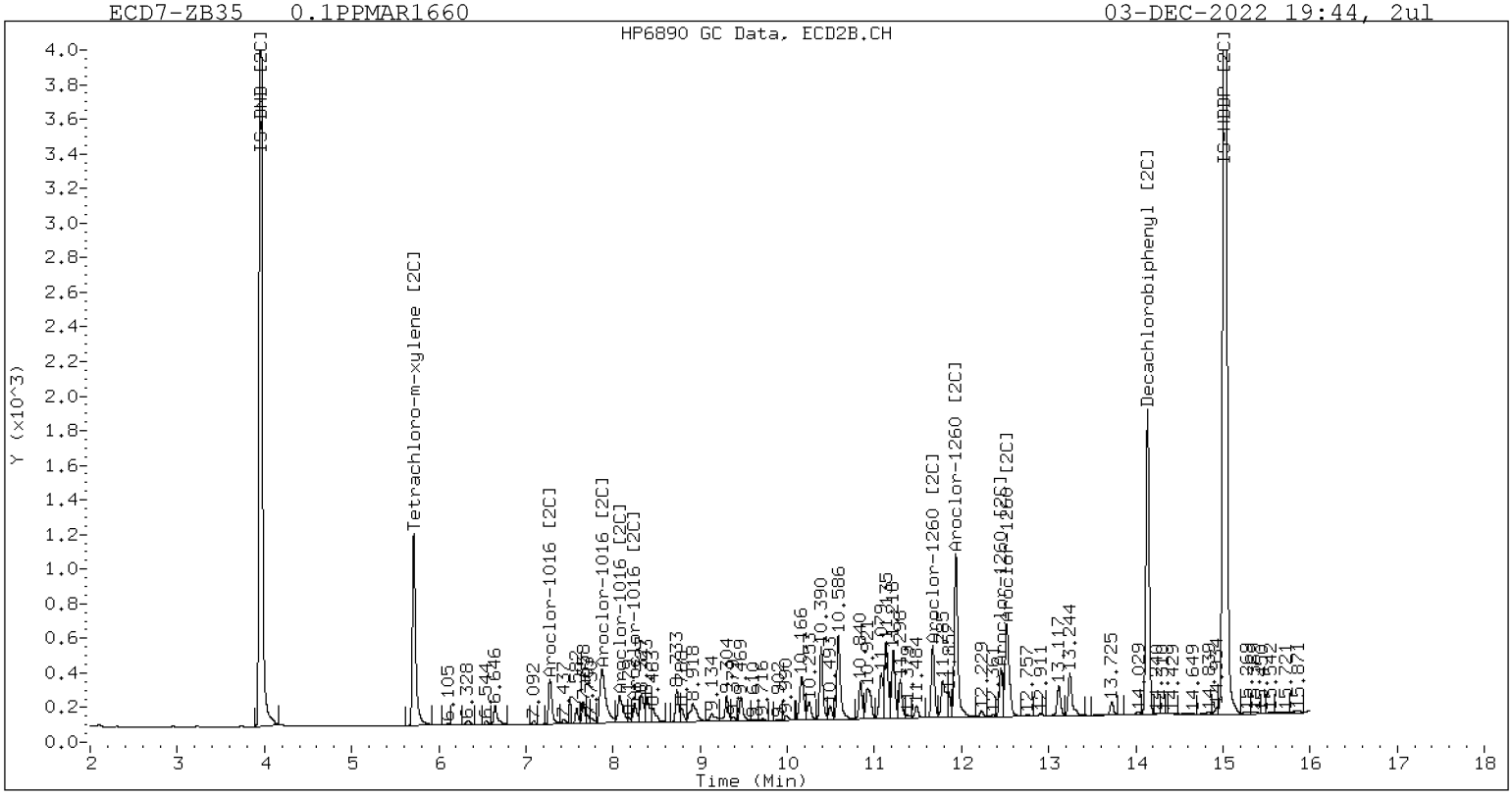
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032216ECD7.D
Data file 2: /221203.b/221203.b/12032216ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 20:05
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	510310	5.711	-0.002	273850	78.2	77.7	0.7	Tetrachloro-m-xylene
13.908	-0.001	570893	14.137	-0.000	431489	74.4	77.0	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460250	2.8
Hexabromobiphenyl	798898	837210	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257013	3.2
Hexabromobiphenyl	362541	394788	8.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.292	0.000	73008	475.5	1	7.275	0.000	61467	467.8
Aroclor-1016	2	7.674	0.000	243498	491.2	2	7.870	0.000	135395	477.7
Aroclor-1016	3	7.810	0.000	100165	445.9	3	8.070	0.000	55783	458.3
Aroclor-1016	4	8.424	0.000	70493	492.3	4	8.241	0.000	32578	509.0
Total Col1Ave (4 peaks):					476.3	Total Col2Ave (4 peaks):				478.2 RPD = 0
Corrected Ave (3 peaks):					470.9	Corrected Ave (3 peaks):				467.9 RPD = 1
CalAmt %D:					-4.7	CalAmt %D:				-4.4
Aroclor-1260	1	11.062	0.000	148089	485.9	1	11.669	0.000	95983	460.6
Aroclor-1260	2	11.377	0.000	154542	490.3	2	11.933	0.000	249045	476.3
Aroclor-1260	3	11.750	0.000	401802	485.2	3	12.451	0.000	66824	479.9
Aroclor-1260	4	12.154	0.000	212604	504.1	4	12.517	0.000	165020	473.4
Aroclor-1260	5	12.260	0.000	85762	496.7	NS	---			----
Total Col1Ave (5 peaks):					492.5	Total Col2Ave (4 peaks):				472.5 RPD = 4
Corrected Ave (4 peaks):					489.5	Corrected Ave (3 peaks):				470.1 RPD = 4
CalAmt %D:					-1.5	CalAmt %D:				-5.5

Total PCB Area Col1 (5.936 - 13.808) = 4267475 Col1 Total PCB = 0.8 ppm*

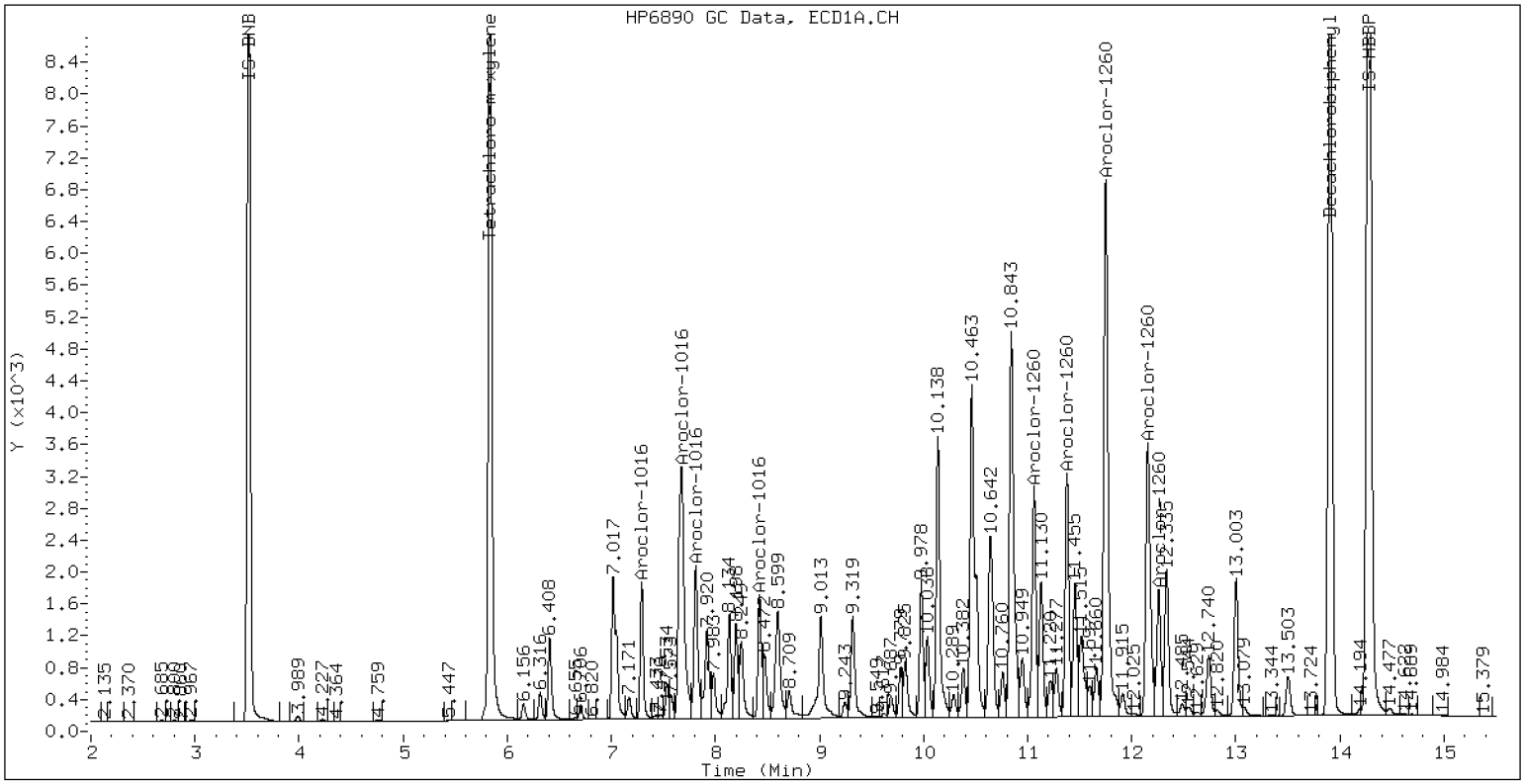
Total PCB Area Col2 (5.936 - 13.808) = 2352394 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

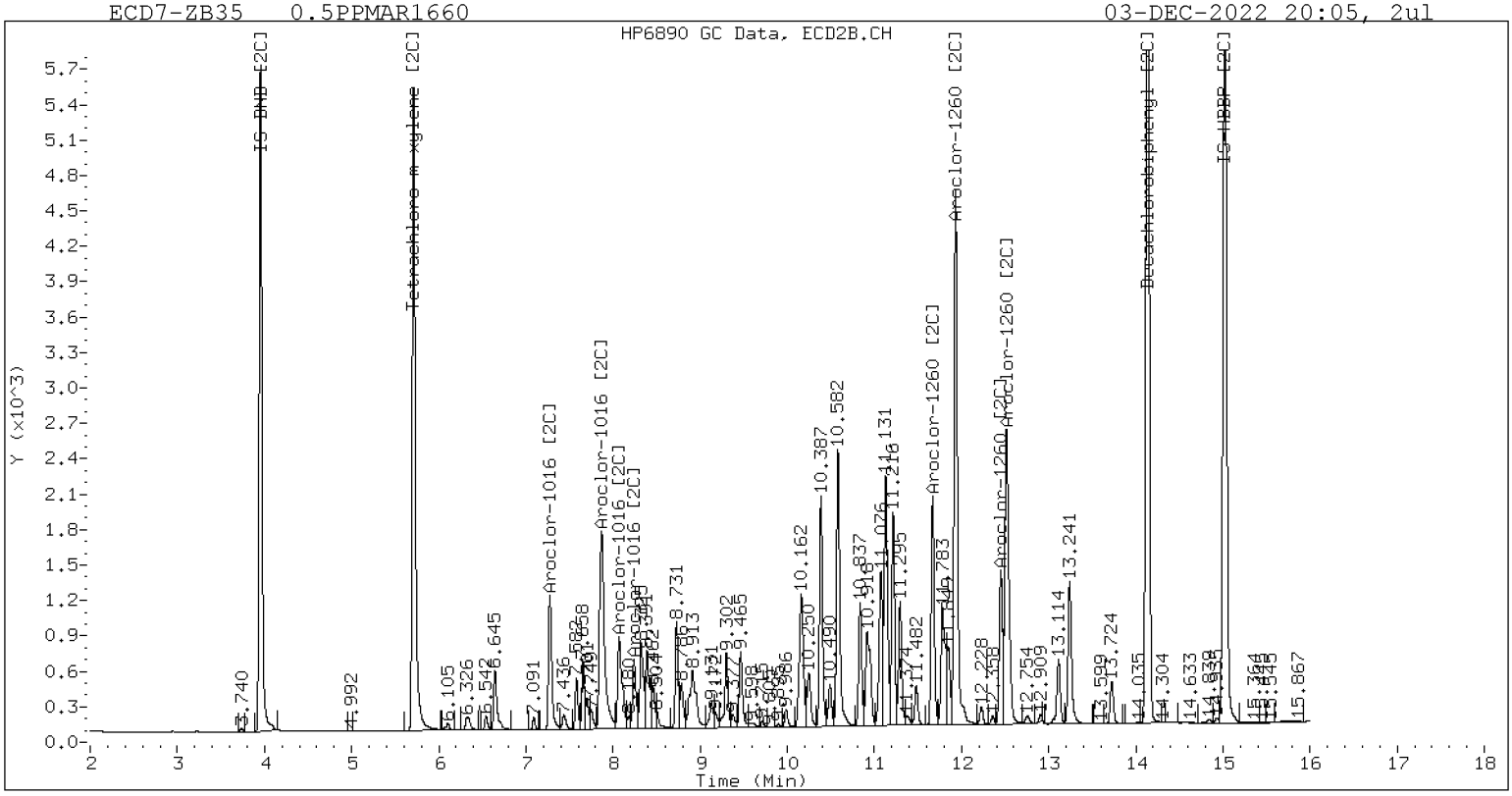
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032217ECD7.D
Data file 2: /221203.b/221203.b/12032217ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 03-DEC-2022 20:26
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243461	5.713	-0.000	130768	37.3	37.1	0.4	Tetrachloro-m-xylene
13.908	-0.001	300671	14.137	0.000	218277	38.5	38.4	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461030	3.0
Hexabromobiphenyl	798898	851899	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257053	3.2
Hexabromobiphenyl	362541	400012	10.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	32669	250.0	1	7.277	0.000	27198	250.0
Aroclor-1242	2	7.680	0.000	103727	250.0	2	7.875	0.000	57737	250.0
Aroclor-1242	3	8.427	0.000	29844	250.0	3	9.178	0.000	18627	250.0
Aroclor-1242	4	9.030	0.000	61970	250.0	4	9.605	0.000	22388	250.0

Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 766457 Col1 Total PCB = 0.1 ppm*

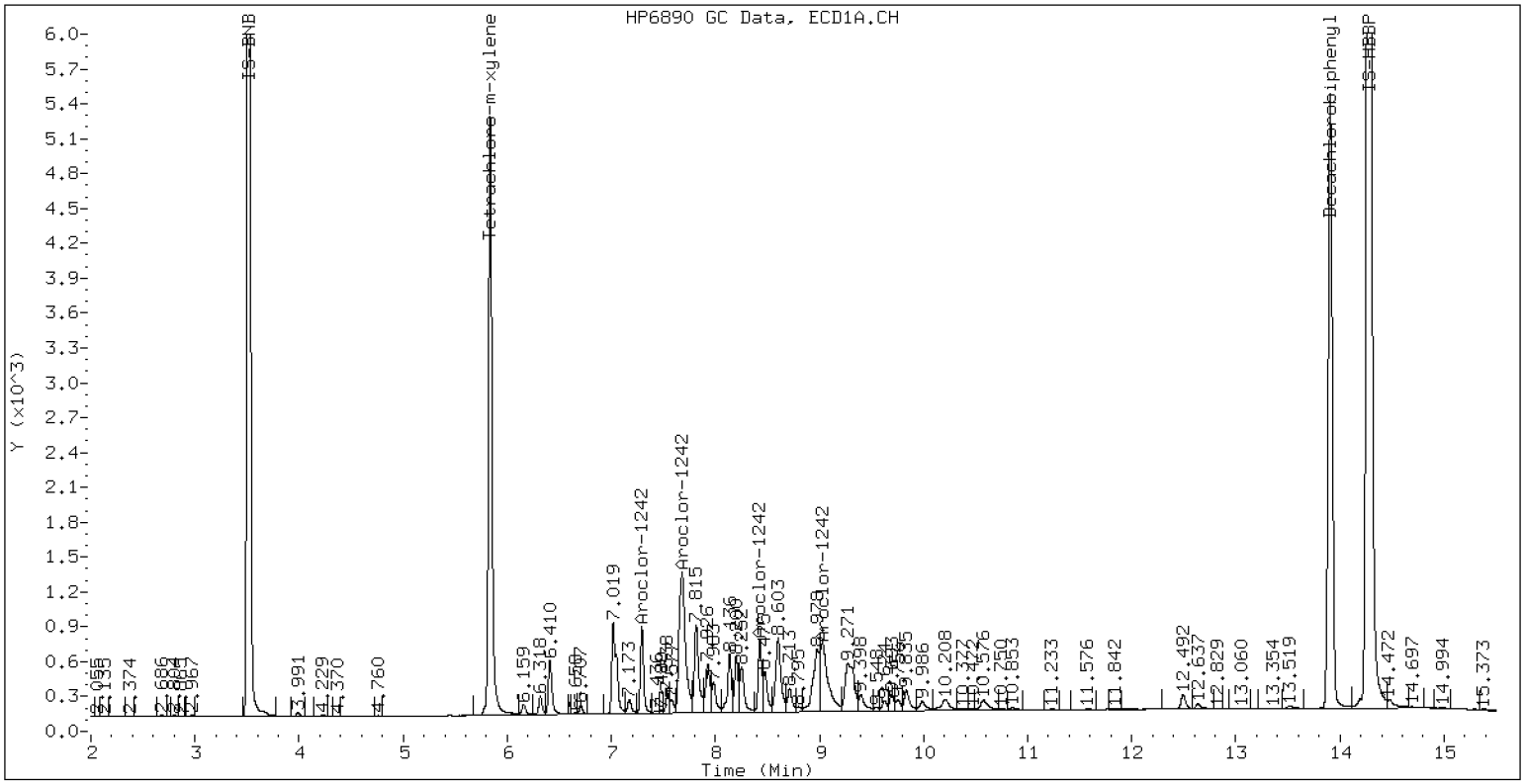
Total PCB Area Col2 (5.936 - 13.808) = 407128 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

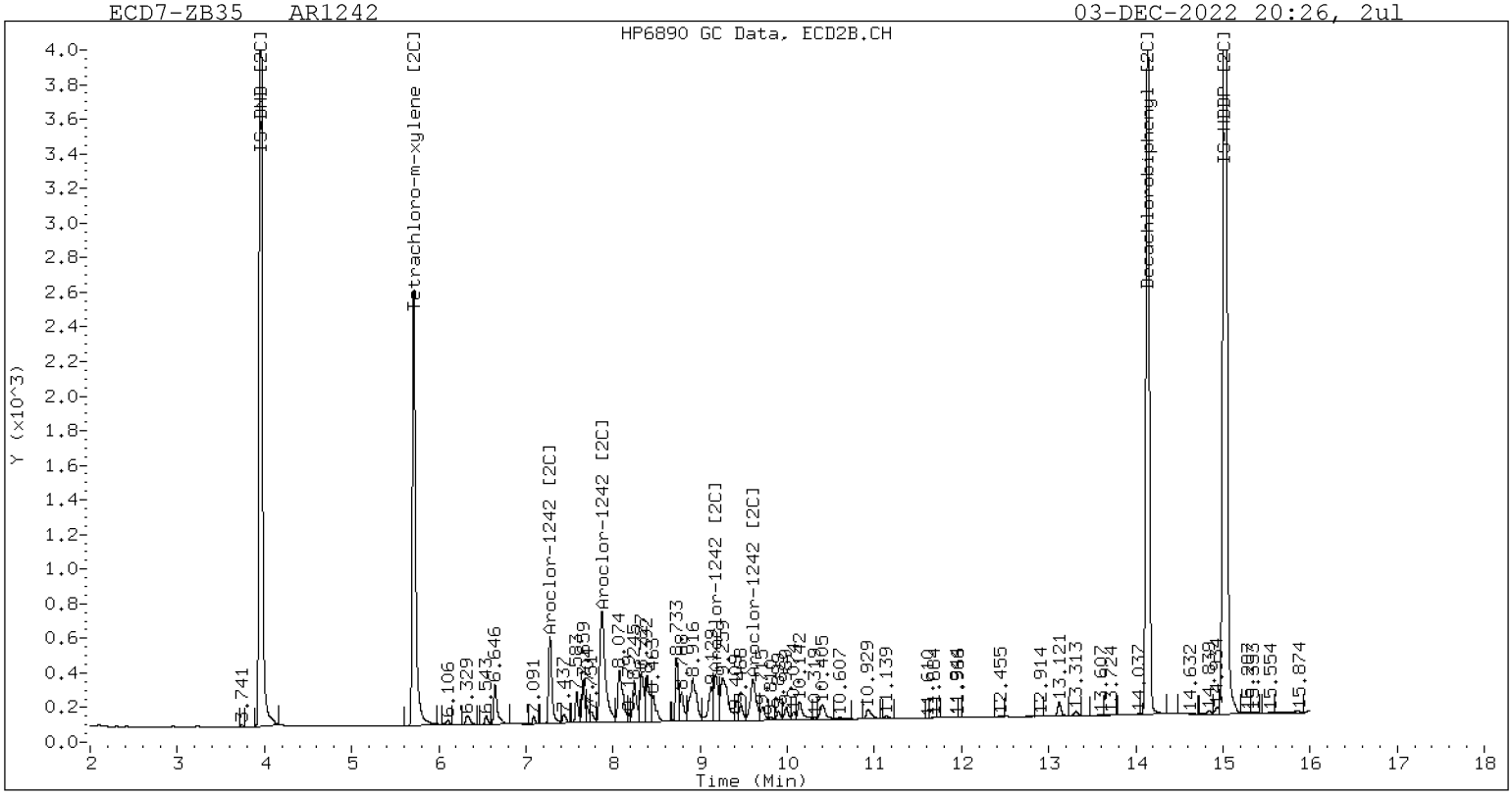
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 03-DEC-2022 20:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242 03-DEC-2022 20:26, 2ul

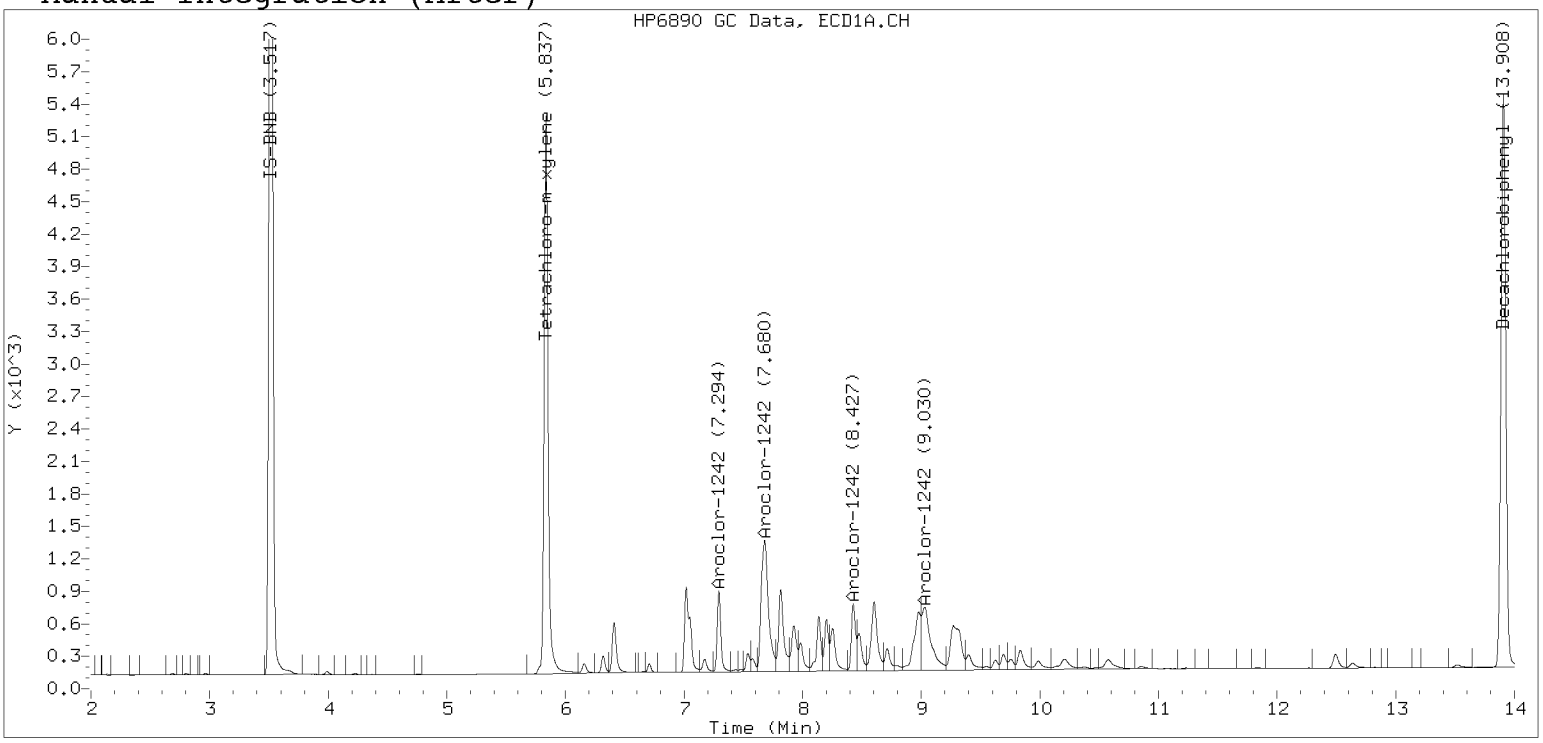


ZB-35 Manual Integration: YES

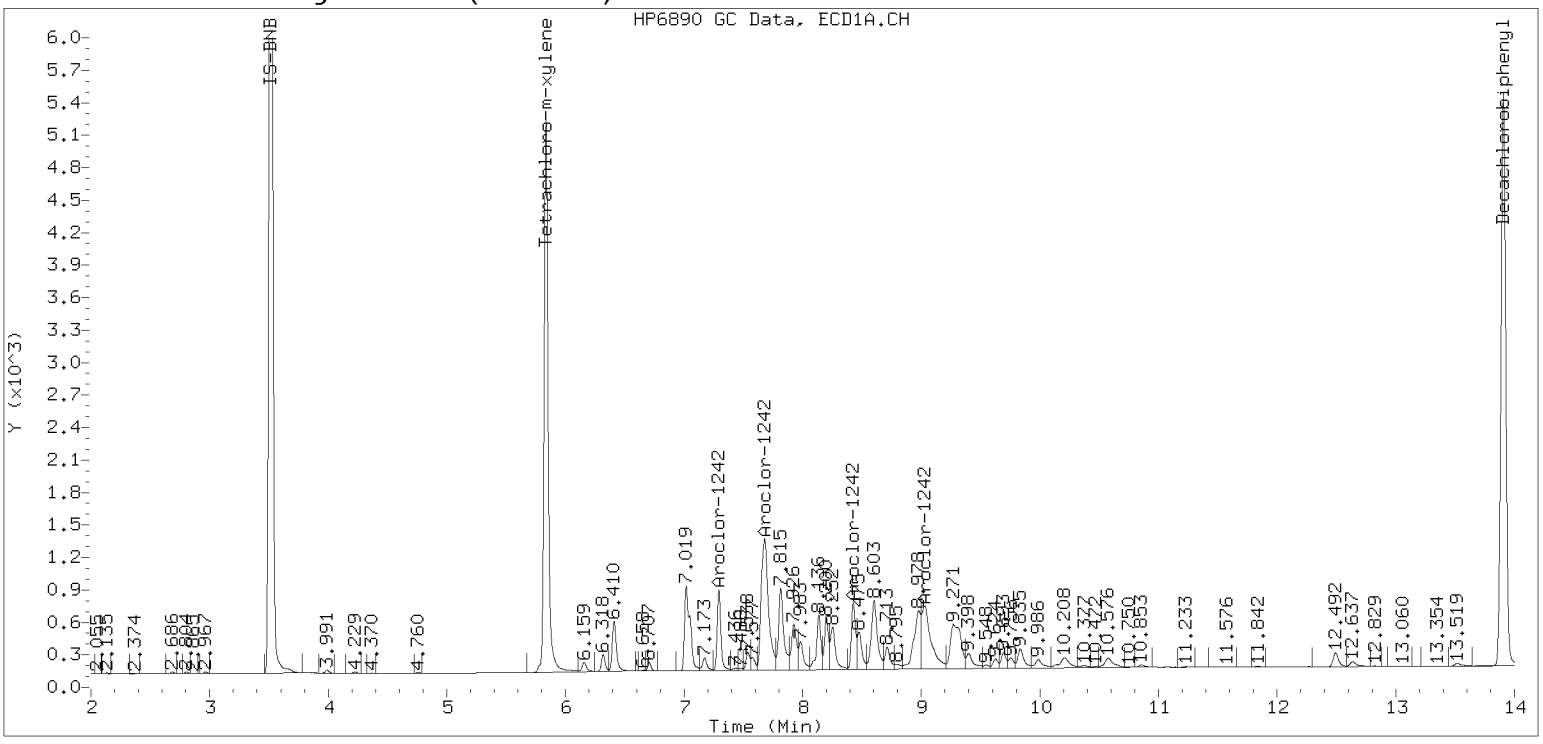
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221203.b/12032217ECD7.D Injection Date: 03-DEC-2022 20:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032218ECD7.D
Data file 2: /221203.b/221203.b/12032218ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 03-DEC-2022 20:48
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	231737	5.713	-0.000	124430	36.1	35.8	0.8	Tetrachloro-m-xylene
13.907	-0.001	296478	14.137	0.000	215774	38.9	38.1	1.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453370	1.3
Hexabromobiphenyl	798898	832030	4.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	253684	1.8
Hexabromobiphenyl	362541	398468	9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	0.000	48733	250.0	1	8.326	0.000	25909	250.0
Aroclor-1248	2	8.603	0.000	62221	250.0	2	8.733	0.000	27250	250.0
Aroclor-1248	3	9.023	0.000	111933	250.0	3	9.177	0.000	33147	250.0
Aroclor-1248	4	9.315	0.000	54837	250.0	4	9.602	0.000	38911	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 964384 Col1 Total PCB = 0.2 ppm*

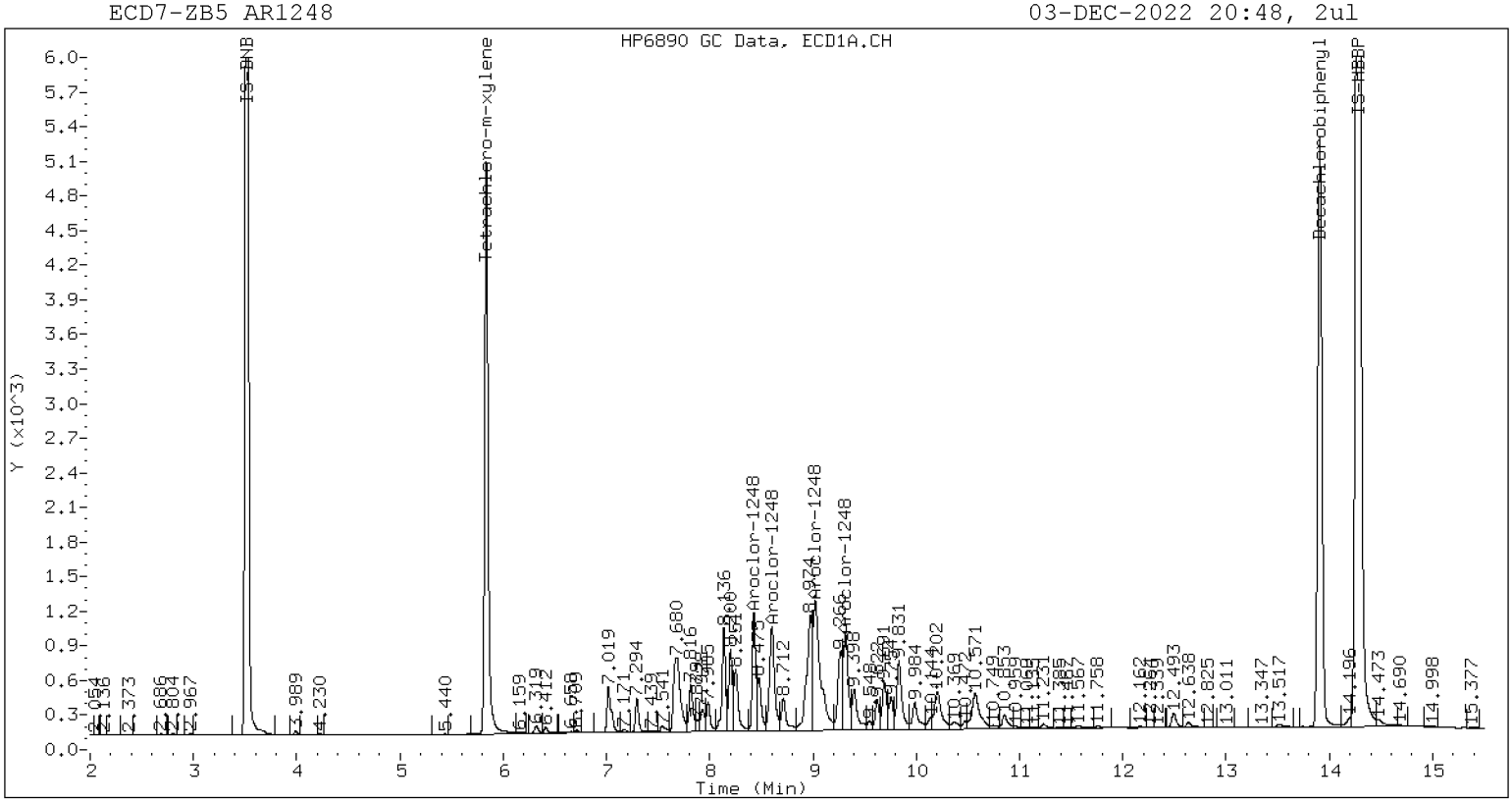
Total PCB Area Col2 (5.936 - 13.808) = 514558 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

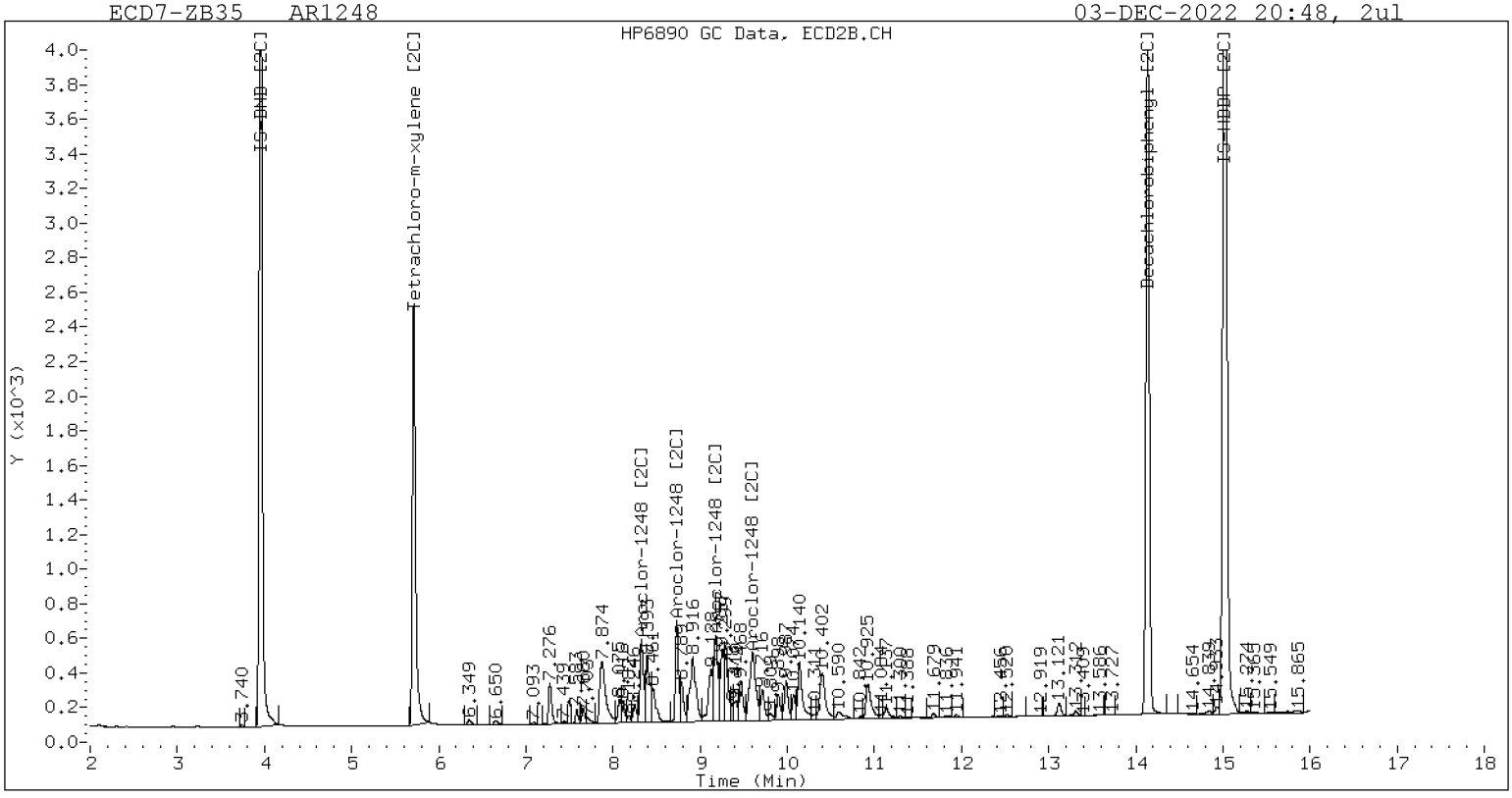
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 03-DEC-2022 20:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 03-DEC-2022 20:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032219ECD7.D
Data file 2: /221203.b/221203.b/12032219ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 03-DEC-2022 21:09
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	235742	5.713	-0.000	129532	36.3	36.8	1.4	Tetrachloro-m-xylene
13.908	-0.000	304424	14.136	-0.001	220843	39.5	38.4	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458200	2.4
Hexabromobiphenyl	798898	841638	5.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	256547	3.0
Hexabromobiphenyl	362541	405063	11.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.319	0.000	100858	250.0	1	9.467	0.000	41352	250.0
Aroclor-1254	2	9.397	0.000	39224	250.0	2	9.987	0.000	33246	250.0
Aroclor-1254	3	9.688	0.000	63702	250.0	3	10.139	0.000	71462	250.0
Aroclor-1254	4	9.828	0.000	124170	250.0	4	10.389	0.000	74009	250.0
Aroclor-1254	5	10.194	0.000	85117	250.0	5	10.586	0.000	35695	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1310899 Col1 Total PCB = 0.2 ppm*

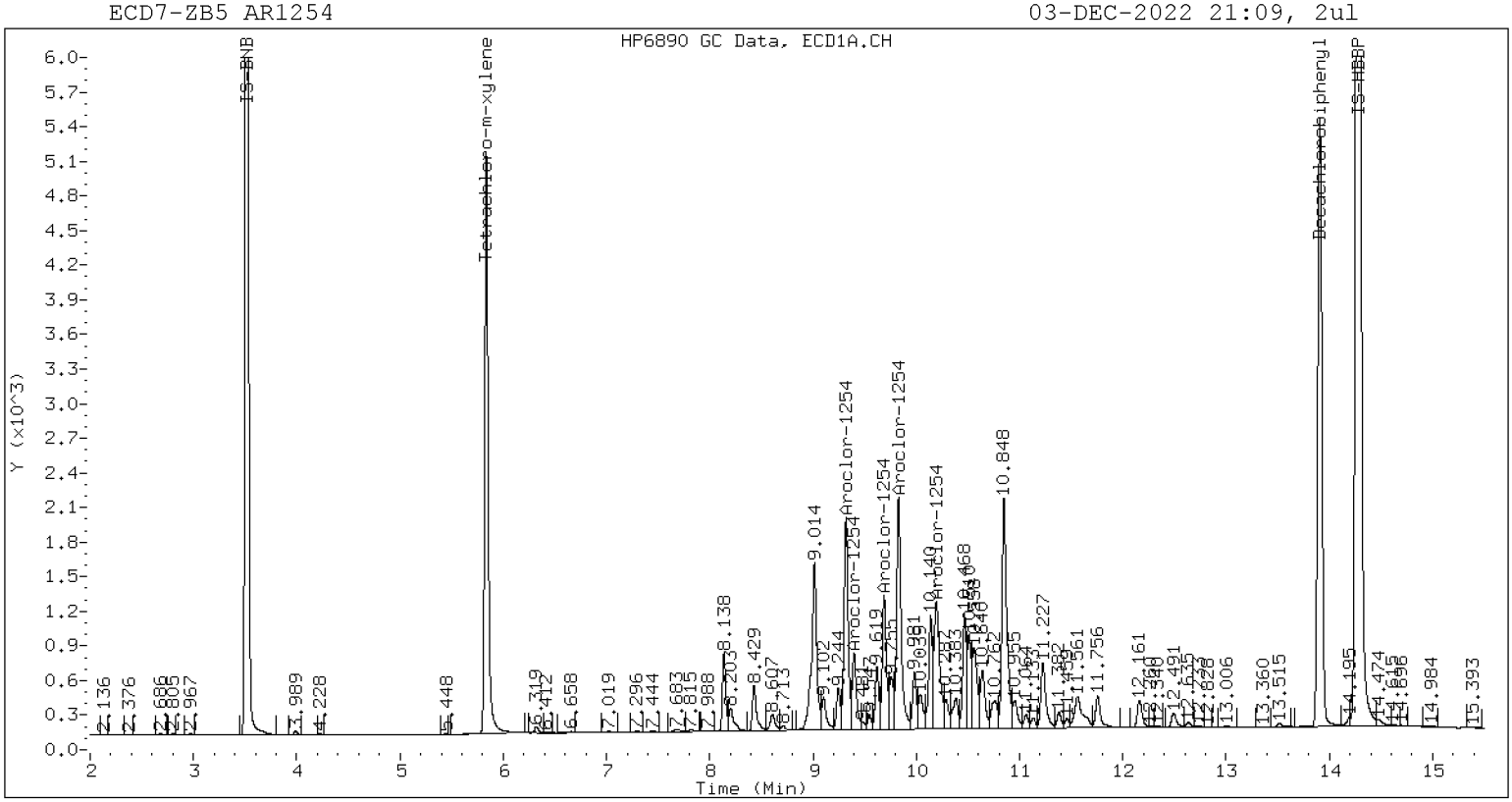
Total PCB Area Col2 (5.936 - 13.808) = 697760 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

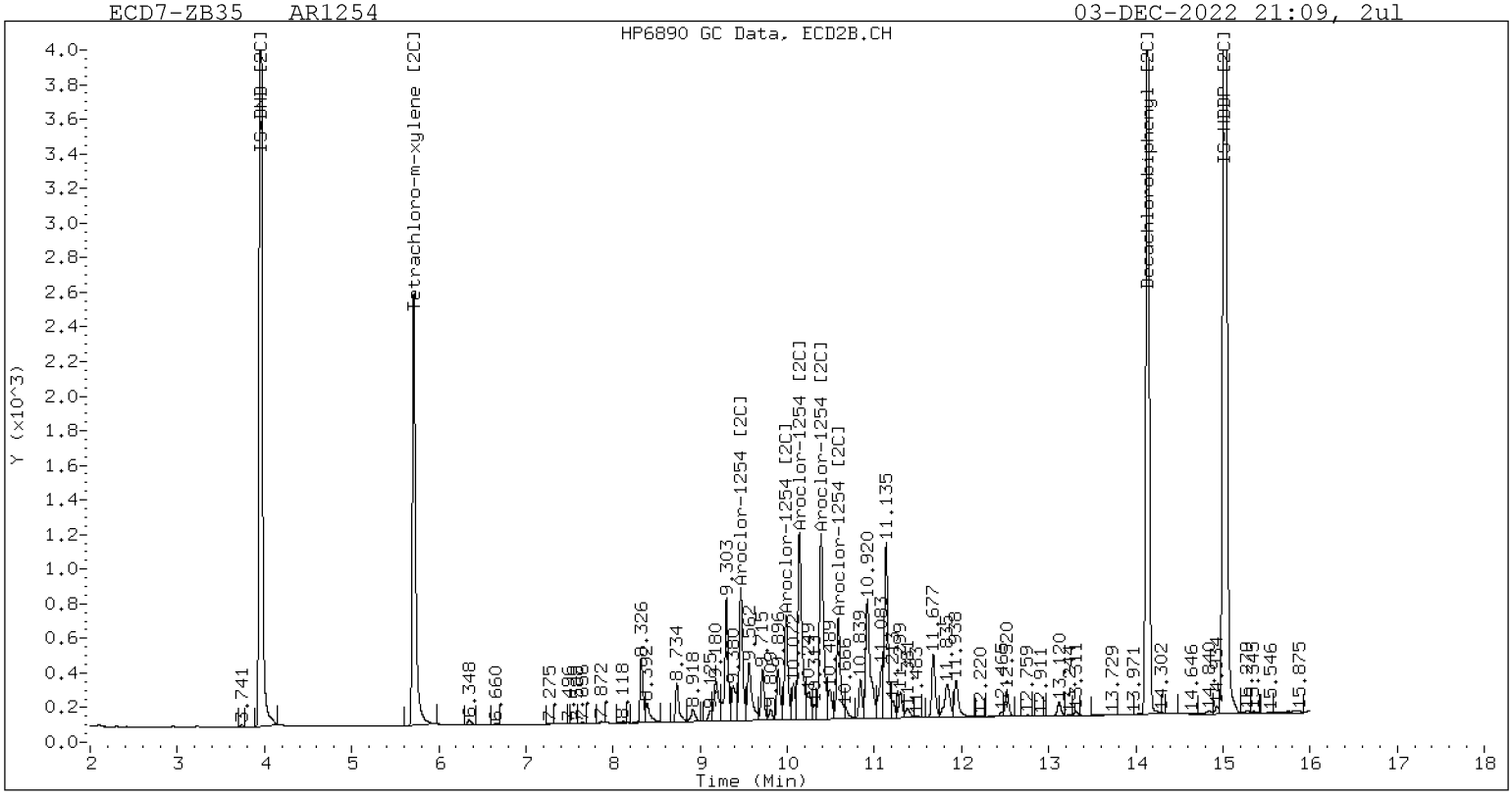
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 03-DEC-2022 21:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 03-DEC-2022 21:09, 2ul



ZB-35 Manual Integration: YES

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032220ECD7.D
Data file 2: /221203.b/221203.b/12032220ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 03-DEC-2022 21:30
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	241351	5.713	-0.001	129143	36.5	36.2	0.7	Tetrachloro-m-xylene
13.908	0.000	313862	14.136	-0.001	226219	40.2	38.7	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466944	4.3
Hexabromobiphenyl	798898	850987	6.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	260026	4.4
Hexabromobiphenyl	362541	412003	13.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.760	0.000	9650	250.0	1	4.987	0.000	5486	250.0
Aroclor-1221	2	6.159	0.000	17000	250.0	2	6.322	0.000	10456	250.0
Aroclor-1221	3	6.409	0.000	39219	250.0	3	6.645	0.000	17596	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.848	0.000	71145	250.0	1	11.217	0.000	78317	250.0
Aroclor-1262	2	12.263	0.000	110609	250.0	2	11.670	0.000	67831	250.0
Aroclor-1262	3	12.337	0.000	118127	250.0	3	12.451	0.000	74822	250.0
Aroclor-1262	4	13.005	0.000	94805	250.0	4	12.519	0.000	117202	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1878739 Col1 Total PCB = 0.3 ppm*

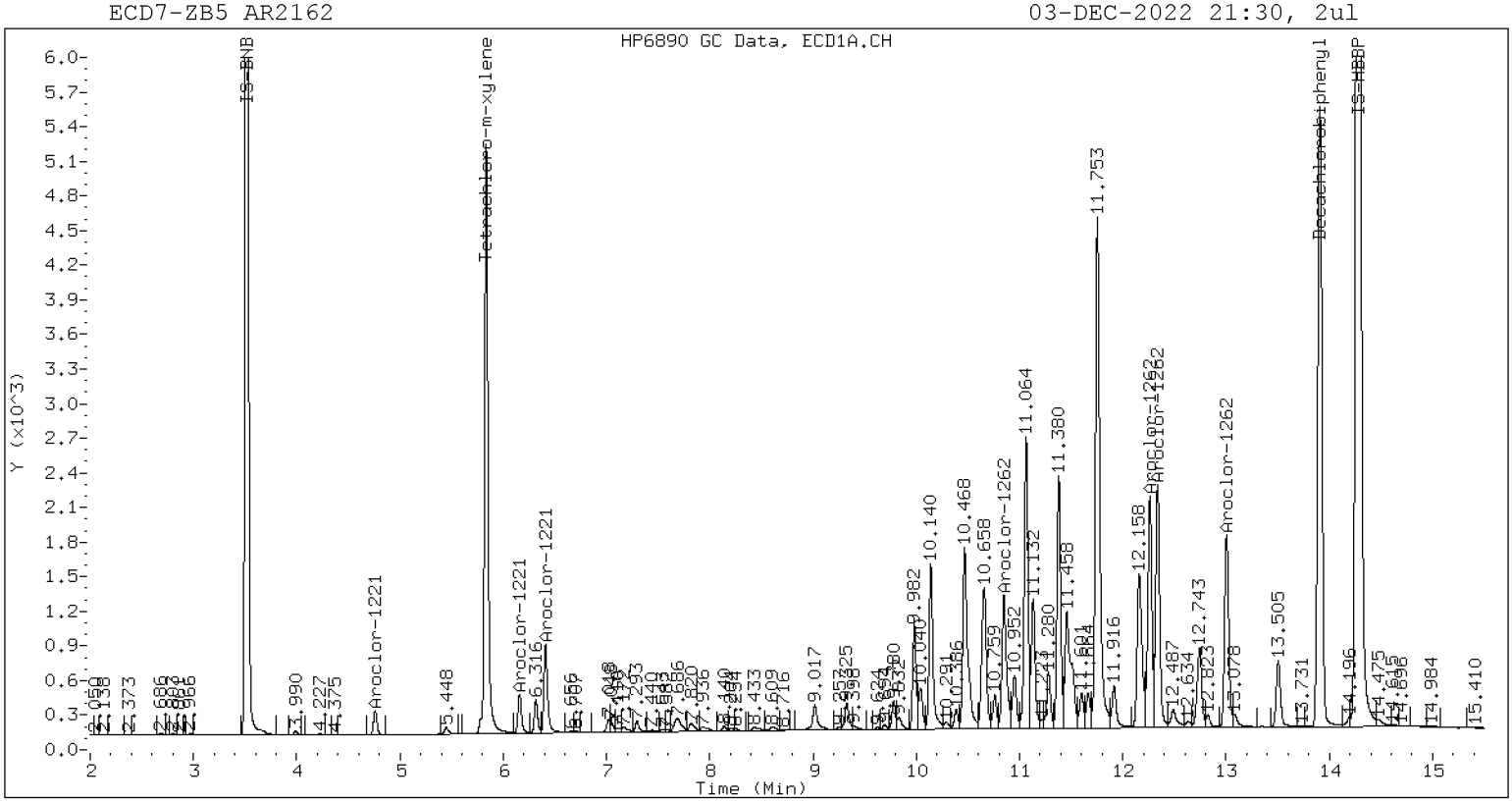
Total PCB Area Col2 (5.936 - 13.808) = 1073324 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

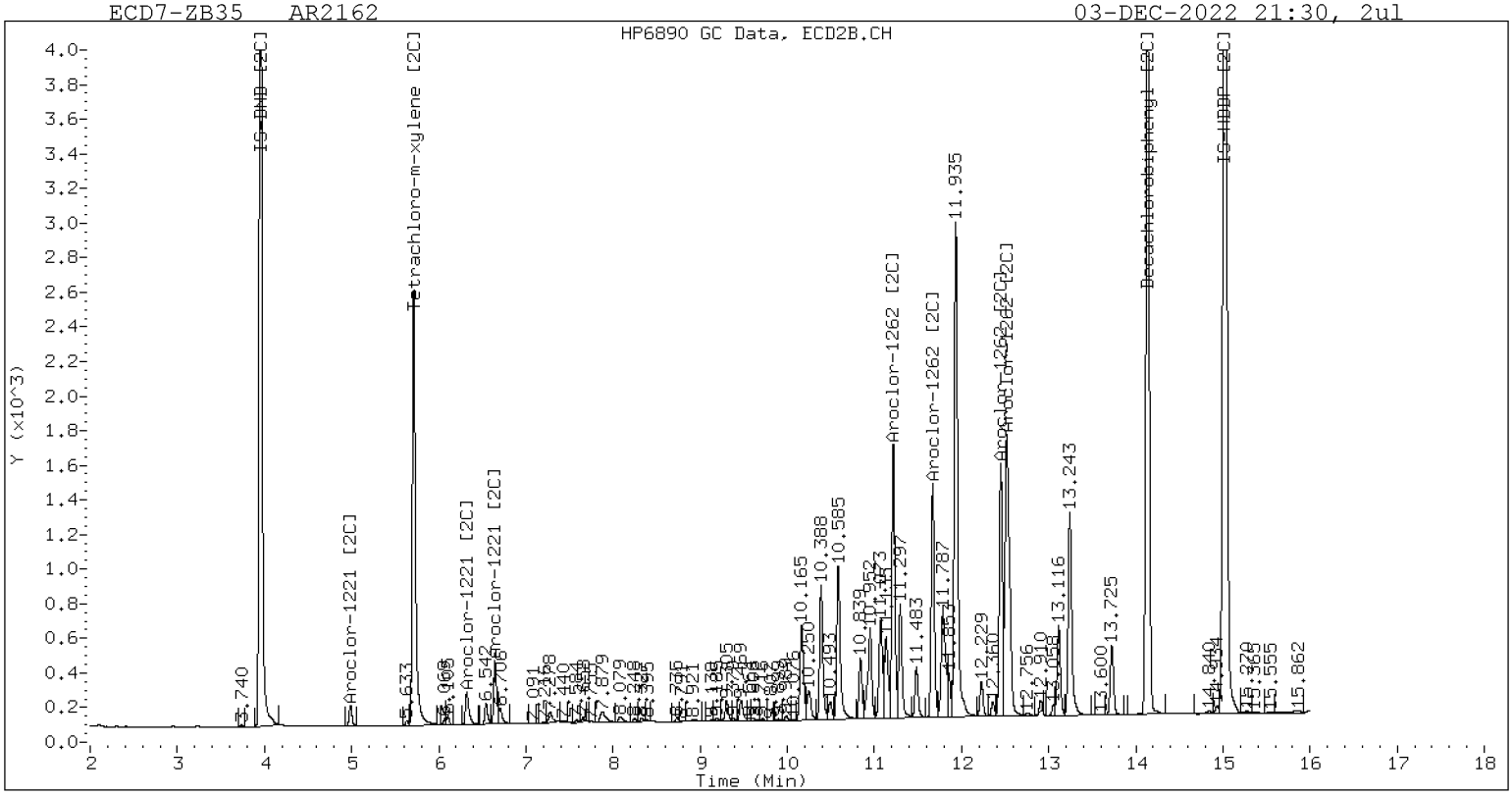
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162 03-DEC-2022 21:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162 03-DEC-2022 21:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032221ECD7.D
Data file 2: /221203.b/221203.b/12032221ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 03-DEC-2022 21:52
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	243663	5.713	0.000	131067	37.5	37.4	0.3	Tetrachloro-m-xylene
13.908	0.000	449152	14.137	0.000	328563	57.2	55.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458589	2.4
Hexabromobiphenyl	798898	855928	7.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255655	2.6
Hexabromobiphenyl	362541	413793	14.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.761	0.000	5704	250.0	1	4.989	0.000	3108	250.0
Aroclor-1232	2	6.160	0.000	12048	250.0	2	7.277	0.000	15872	250.0
Aroclor-1232	3	7.684	0.000	54107	250.0	3	7.876	0.000	31029	250.0
Aroclor-1232	4	8.606	0.000	22956	250.0	4	8.734	0.000	8413	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.262	0.000	299378	250.0	1	12.450	0.000	195273	250.0
Aroclor-1268	2	12.335	0.000	292877	250.0	2	12.517	0.000	200224	250.0
Aroclor-1268	3	12.716	0.000	240046	250.0	3	12.910	0.000	74248	250.0
Aroclor-1268	4	13.505	0.000	732880	250.0	4	13.726	0.000	534323	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 2400701 Col1 Total PCB = 0.5 ppm*

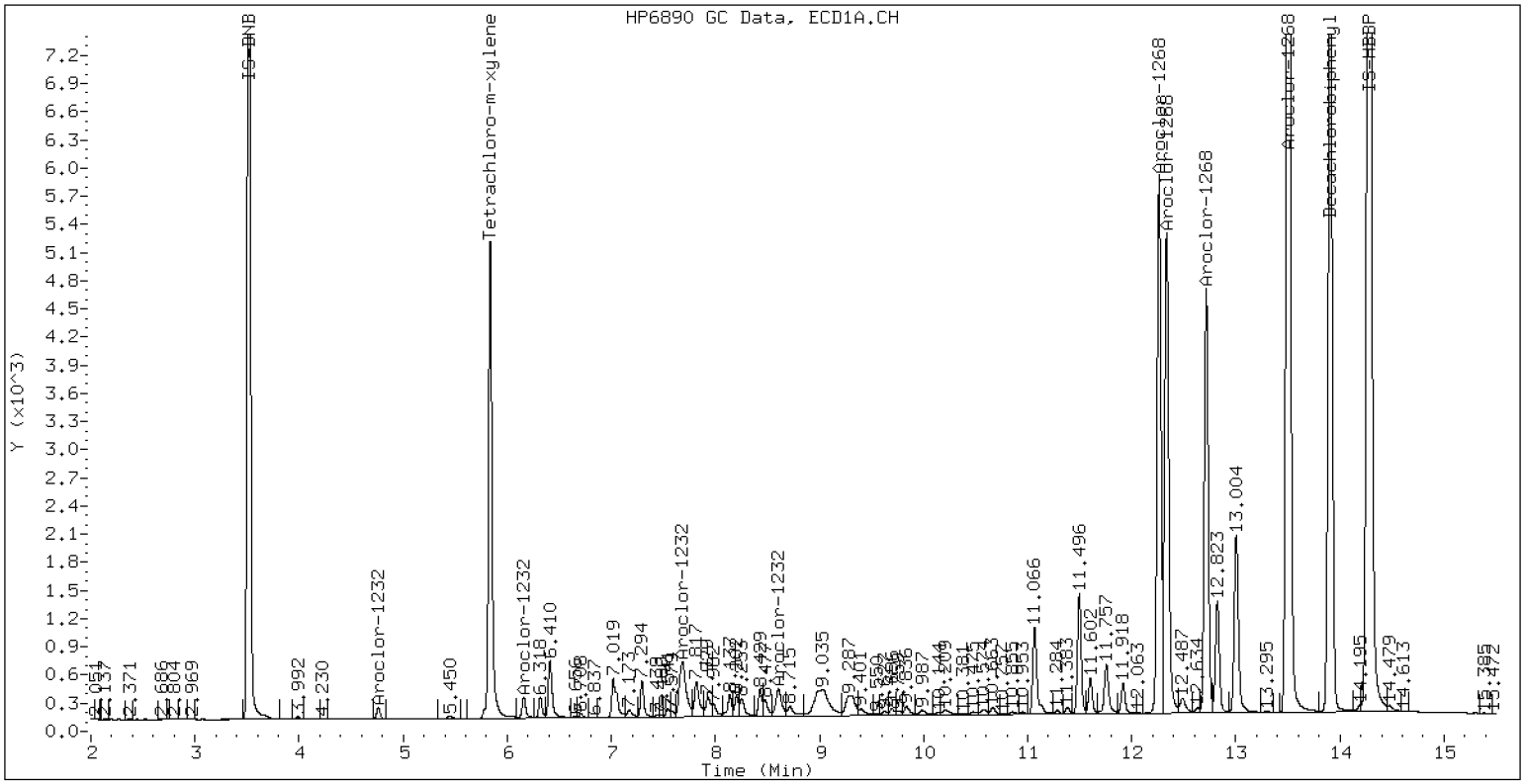
Total PCB Area Col2 (5.936 - 13.808) = 1468669 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

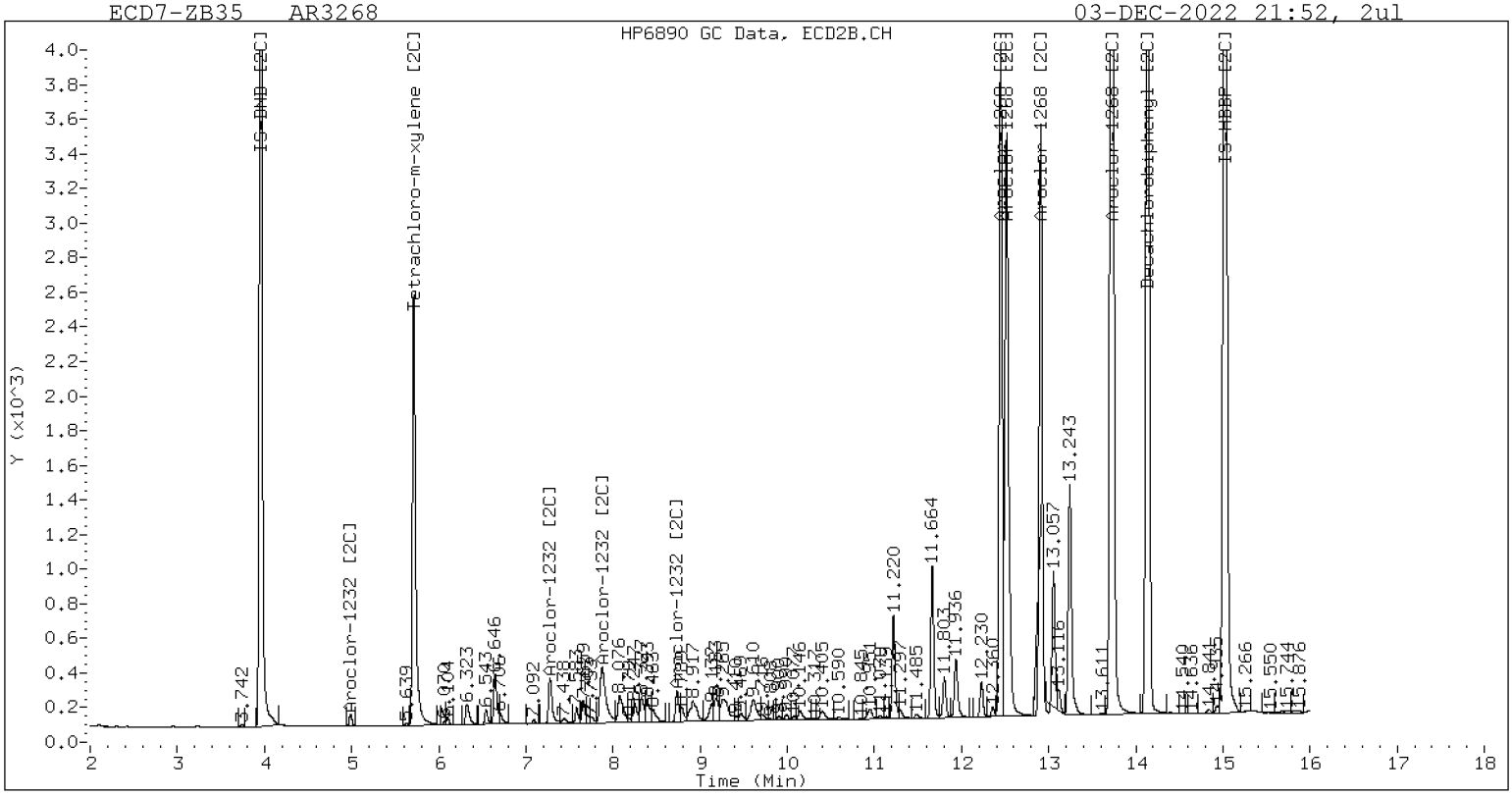
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 03-DEC-2022 21:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 03-DEC-2022 21:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

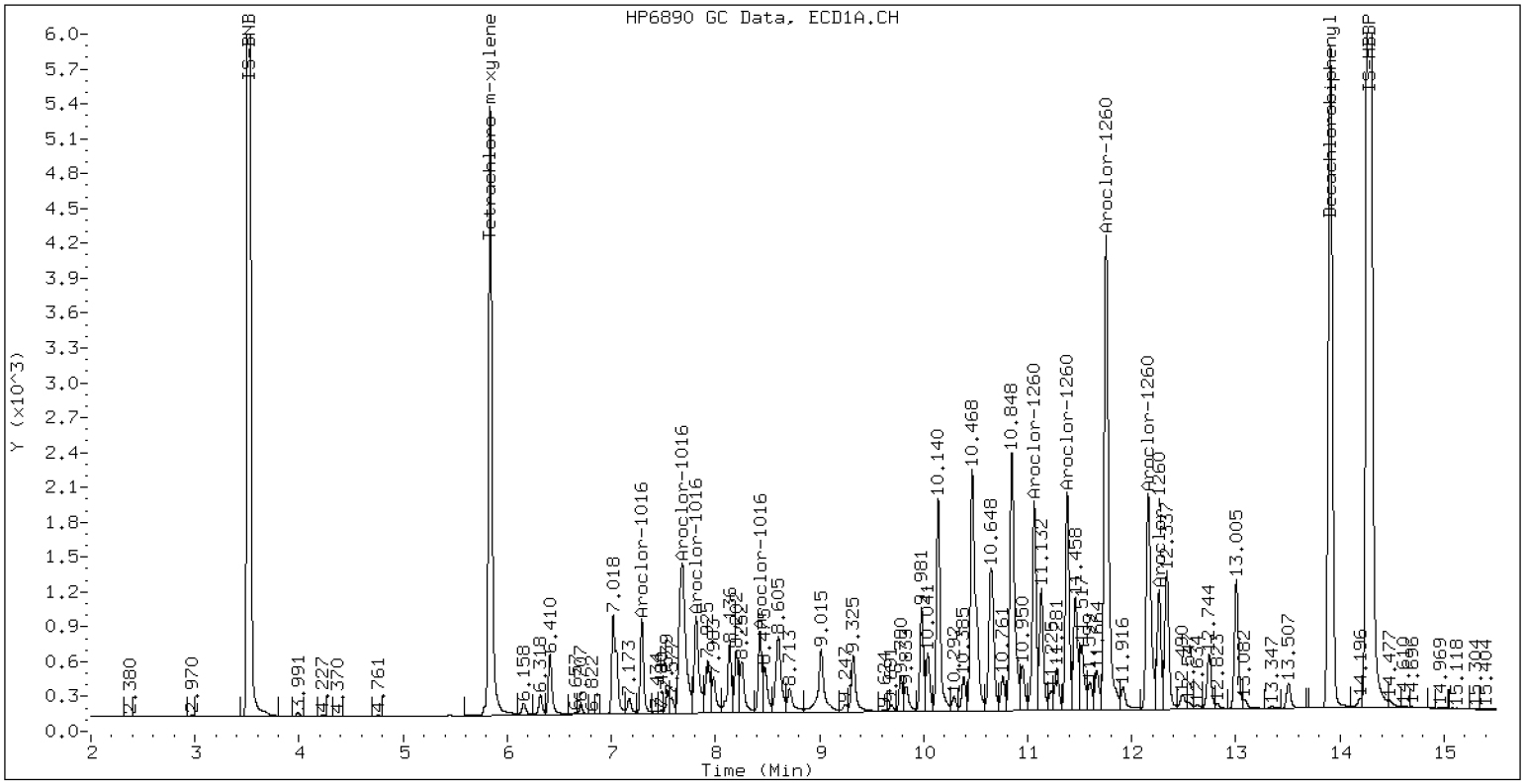
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

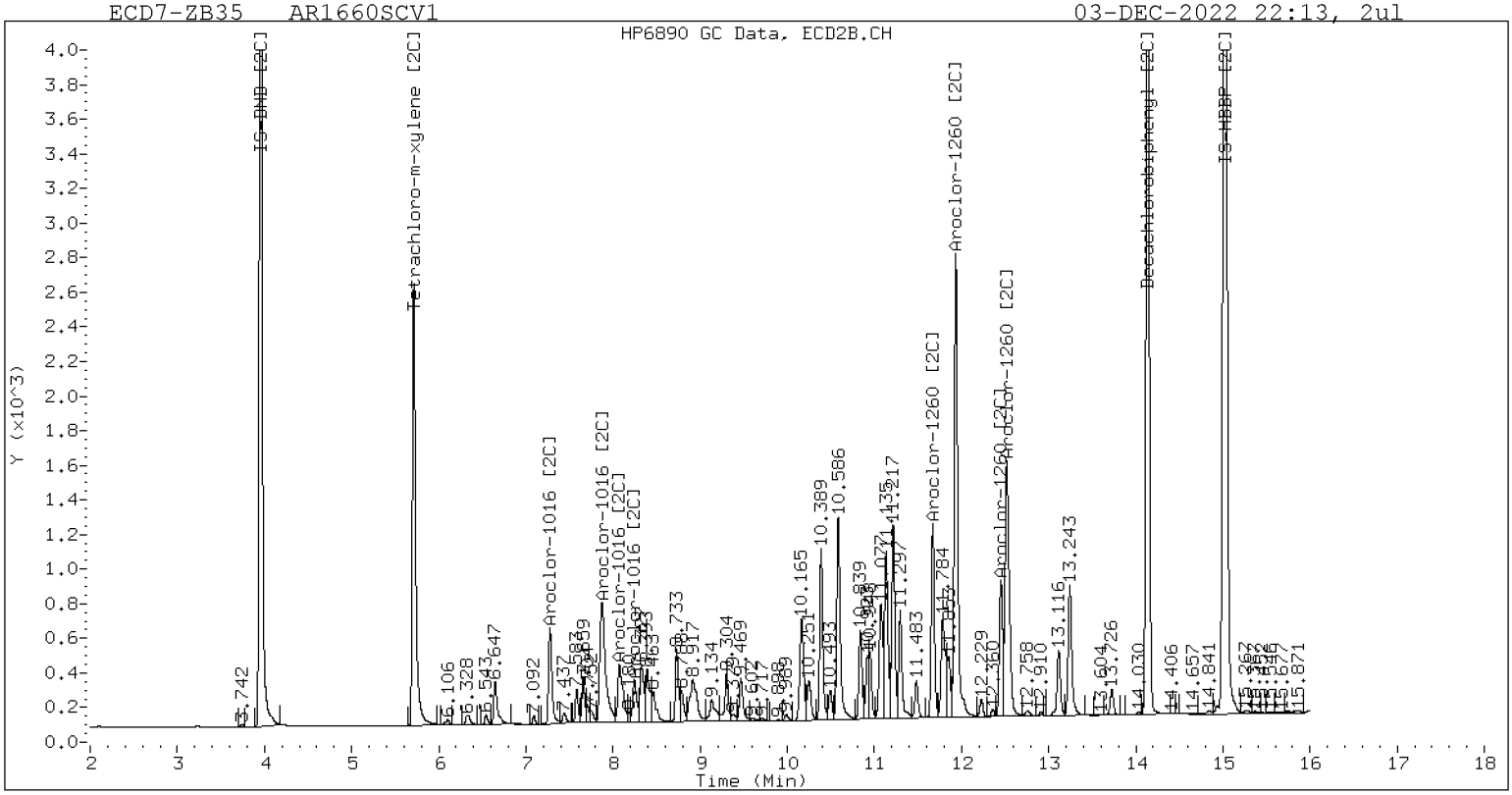
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

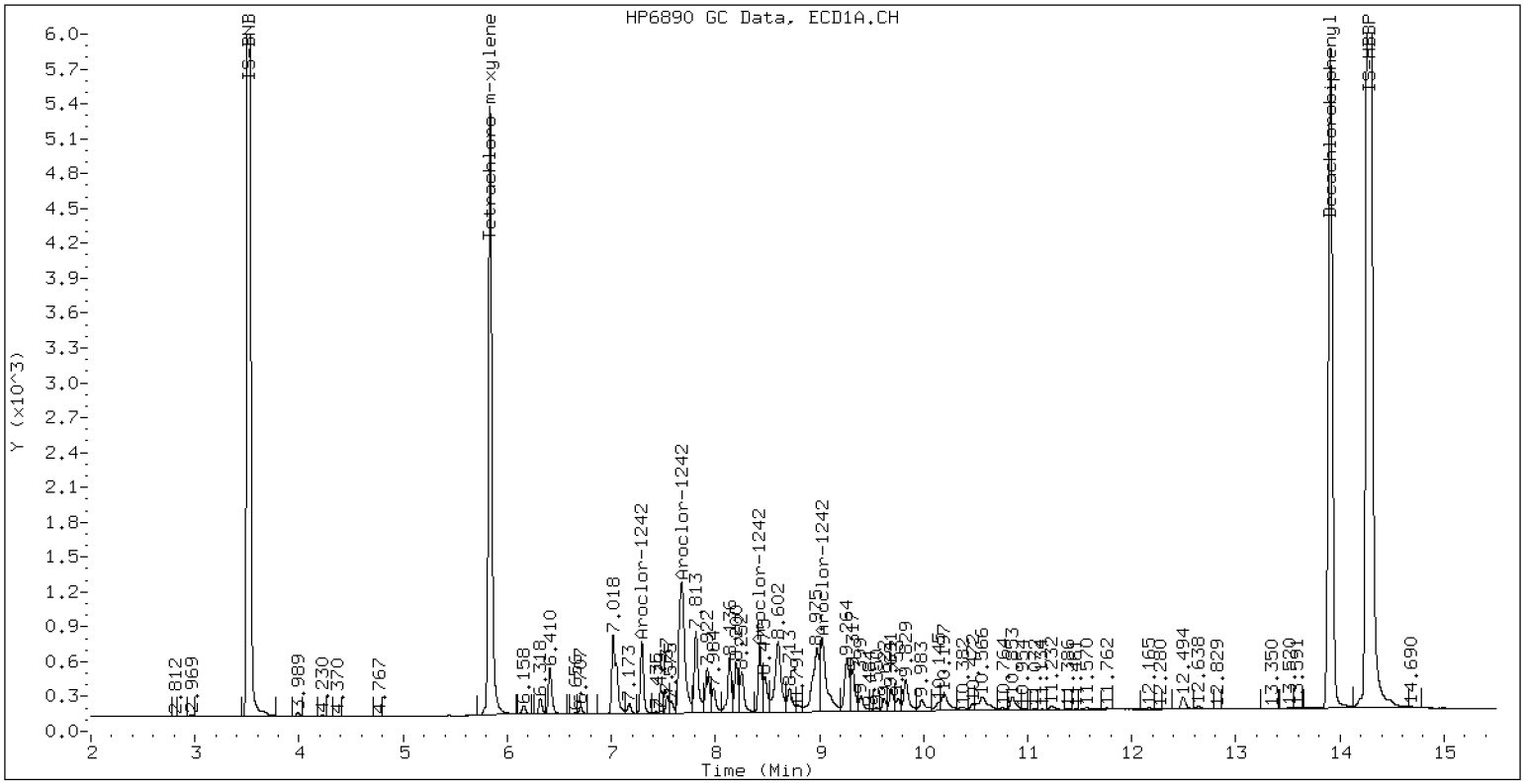
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

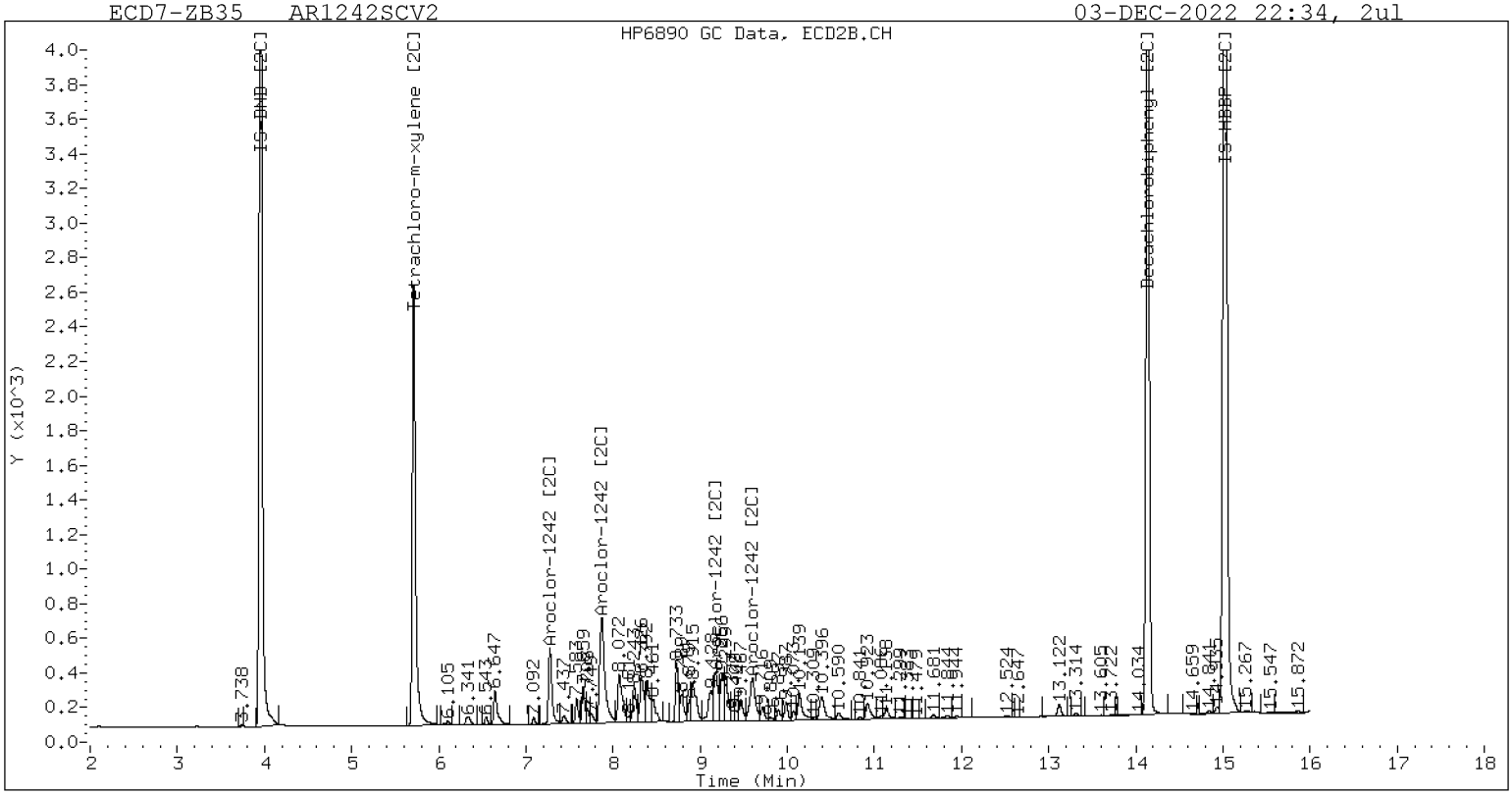
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7
Total Col1Ave (4 peaks): 245.5						Total Col2Ave (4 peaks): 230.2			RPD = 6	
Corrected Ave (3 peaks): 238.8						Corrected Ave (3 peaks): 230.0			RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

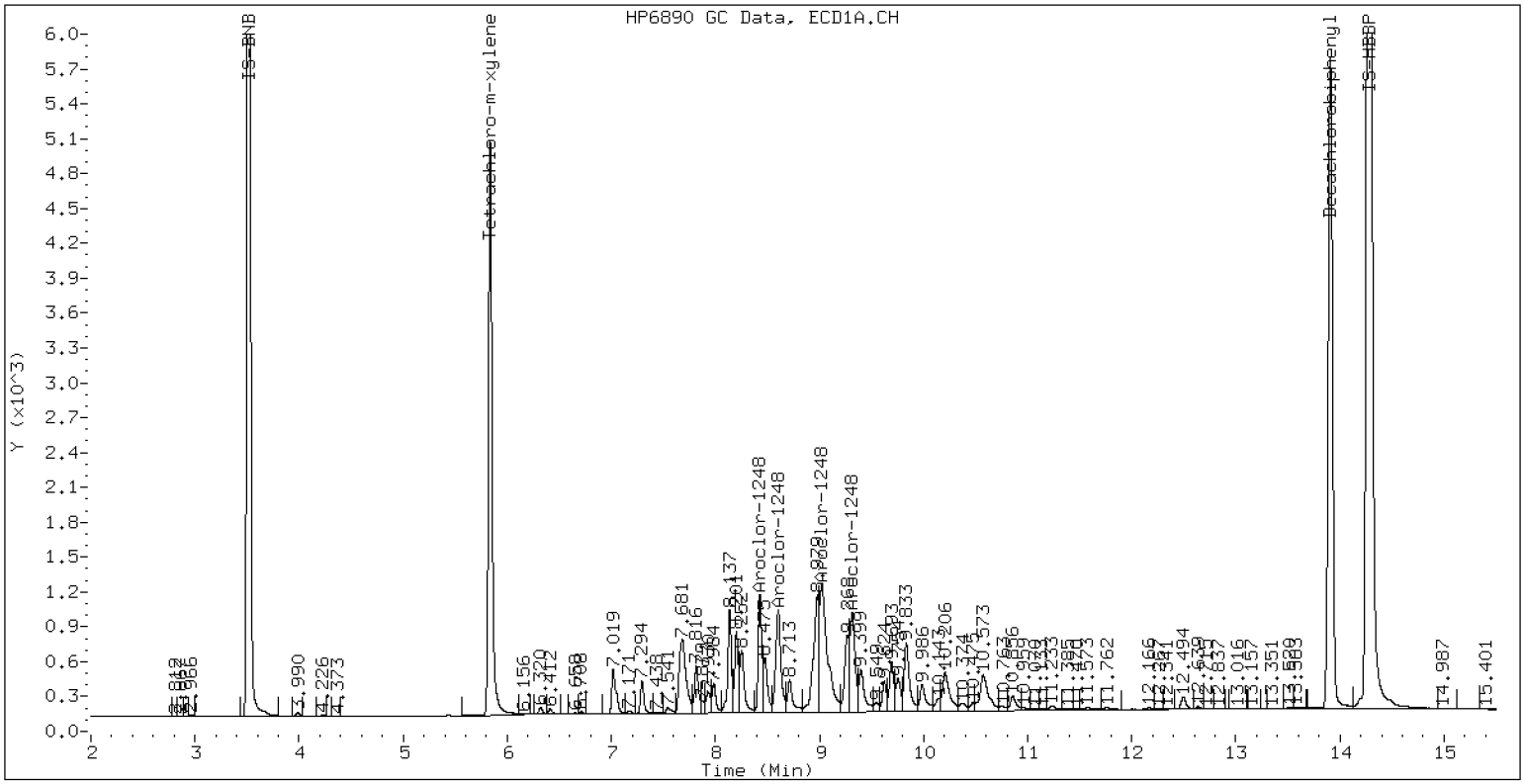
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

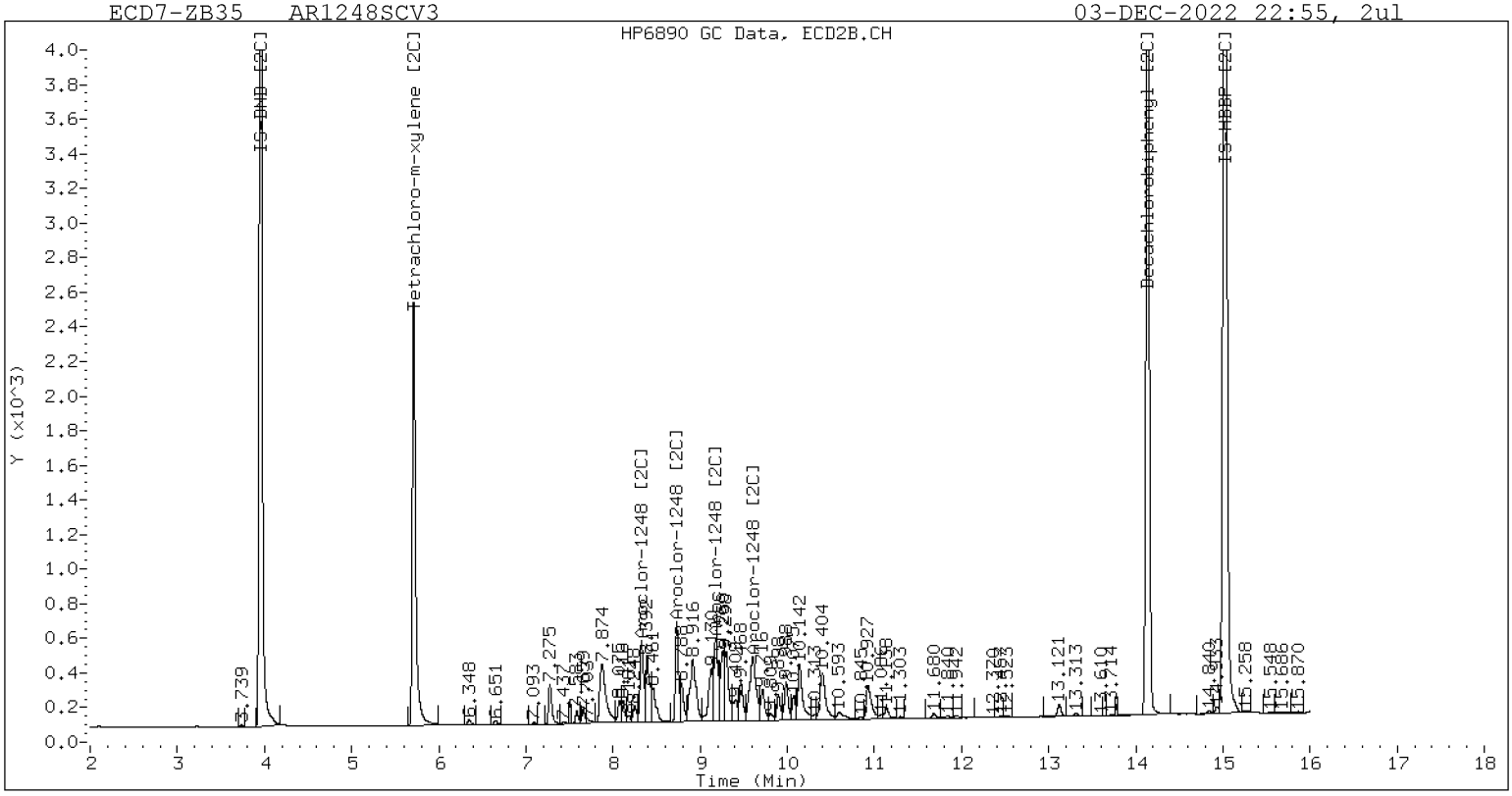
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

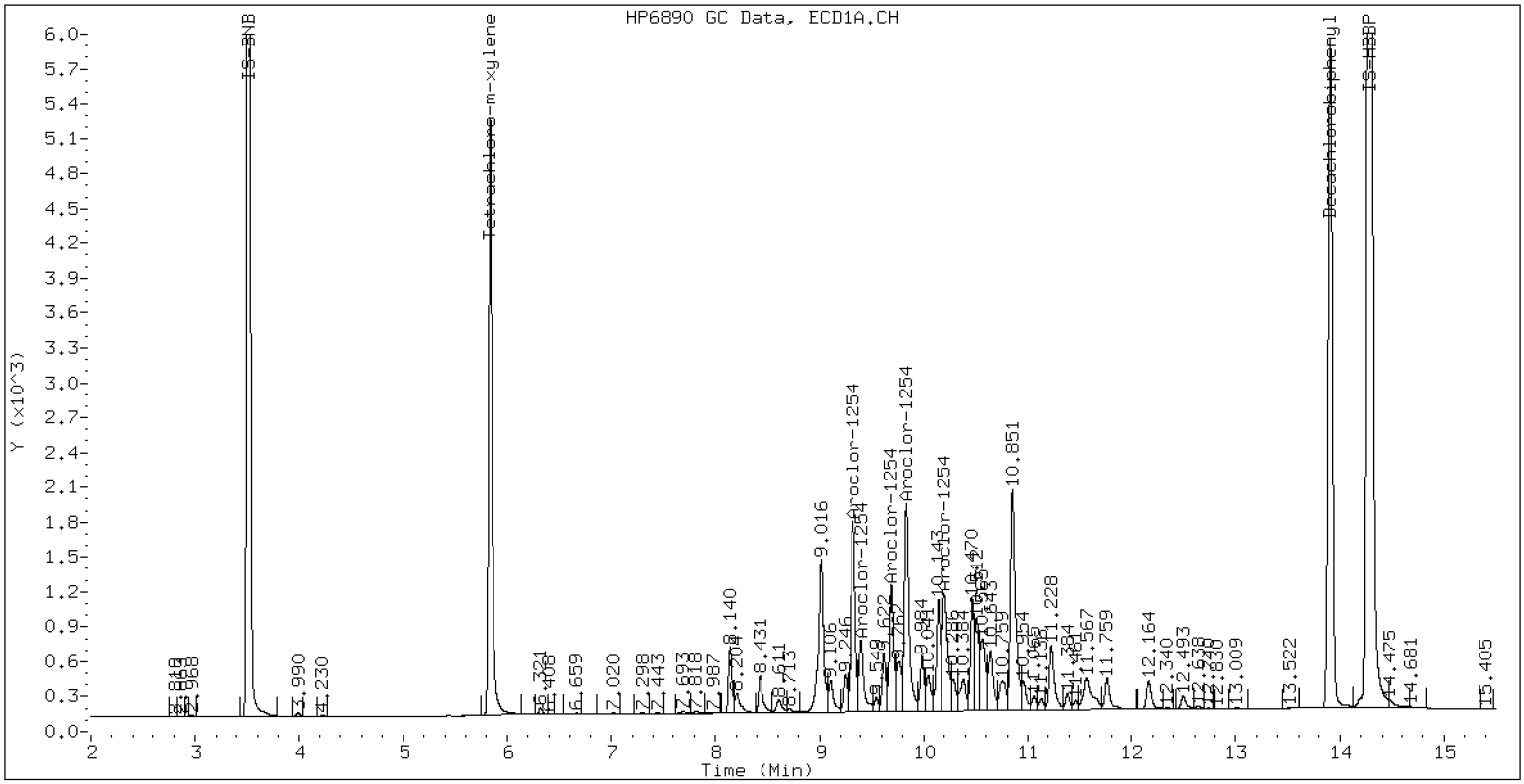
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

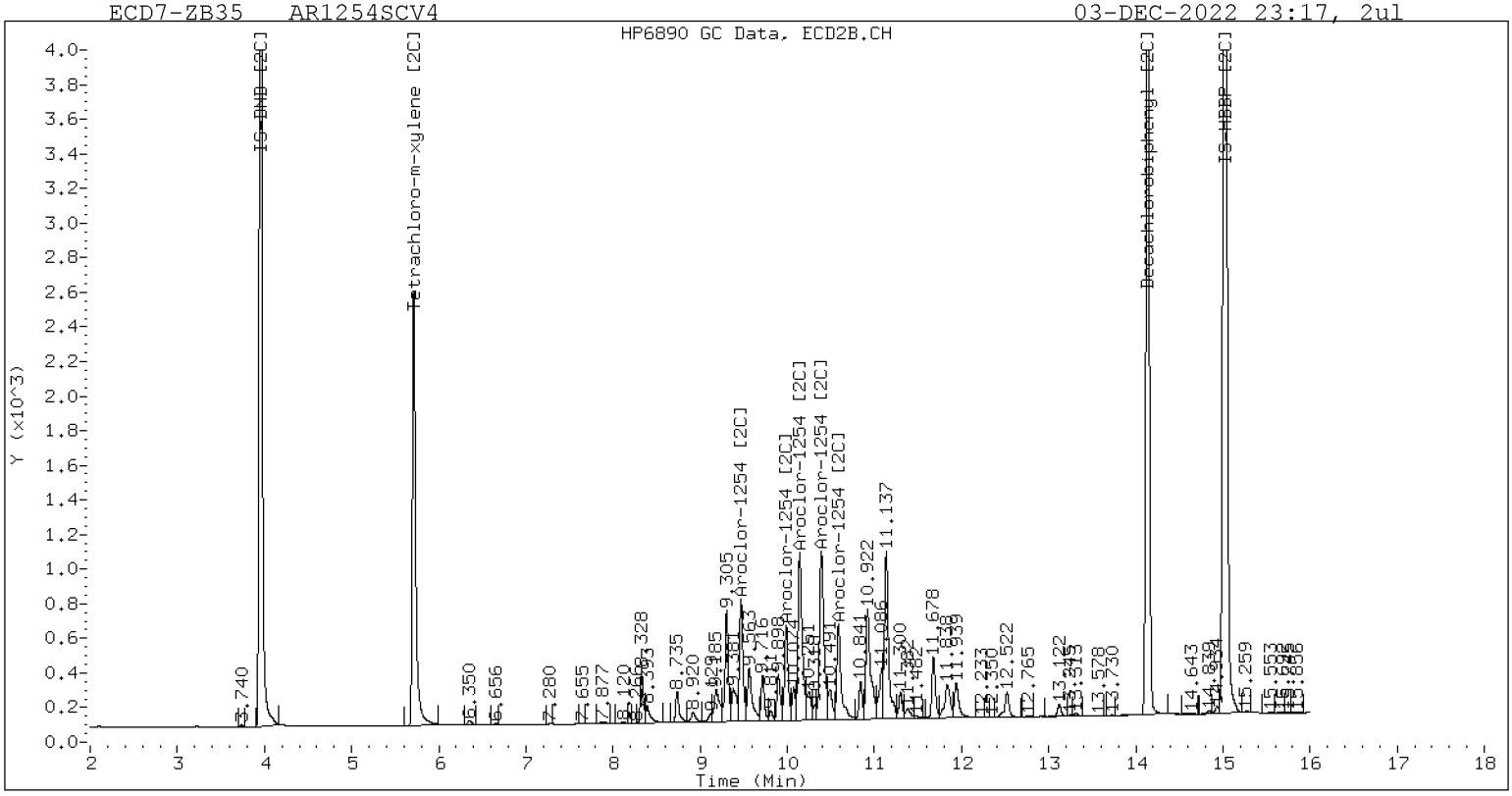
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

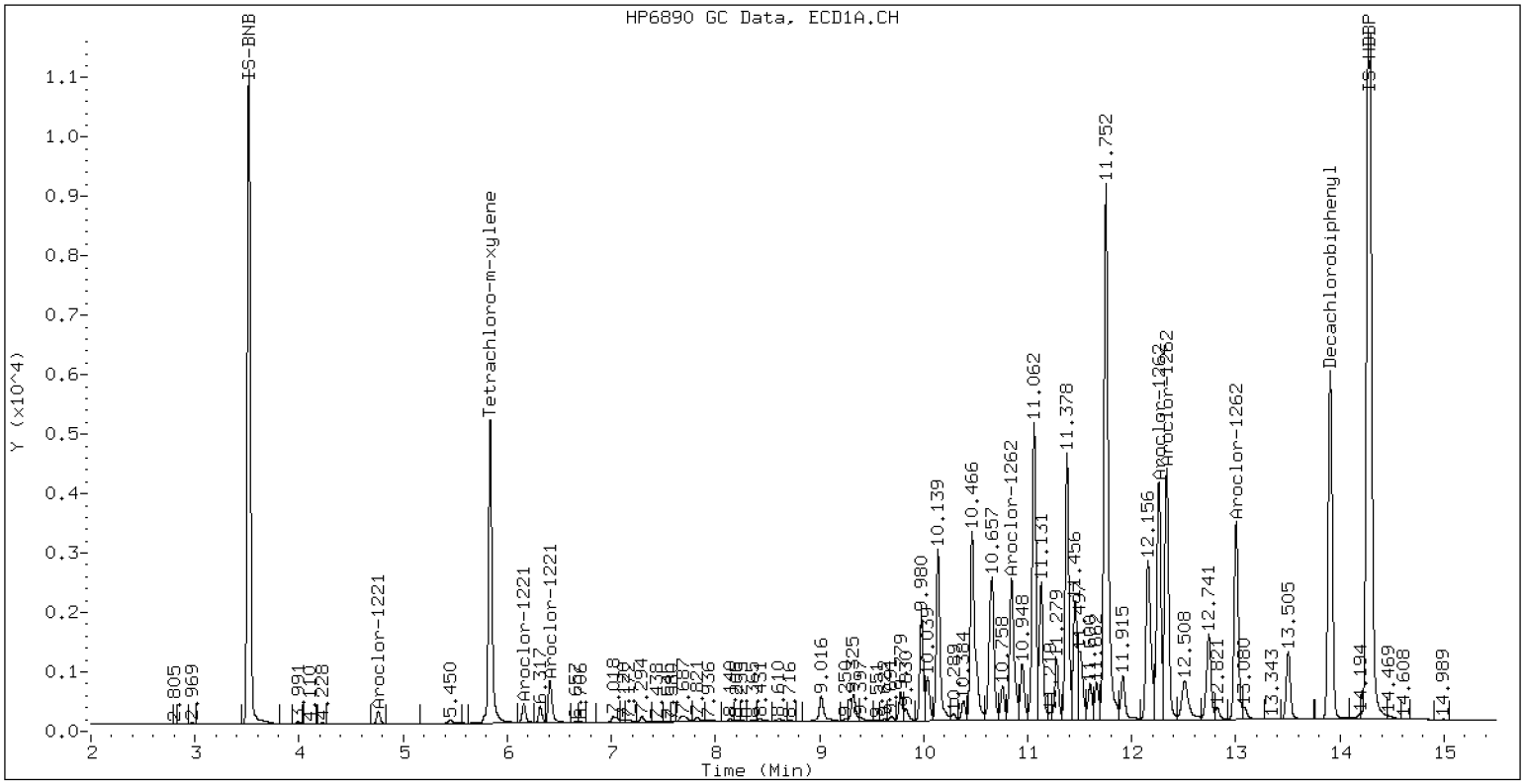
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

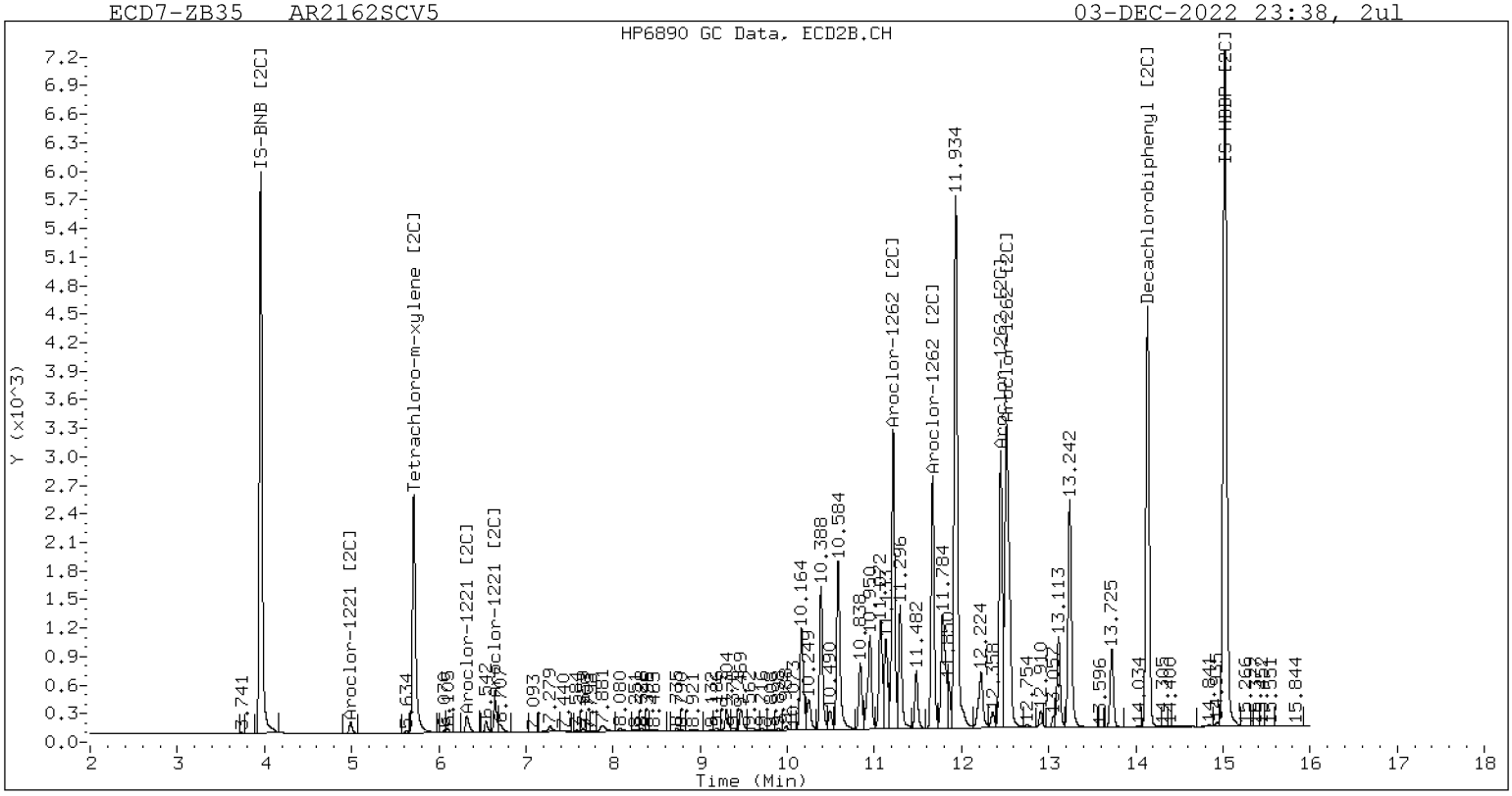
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

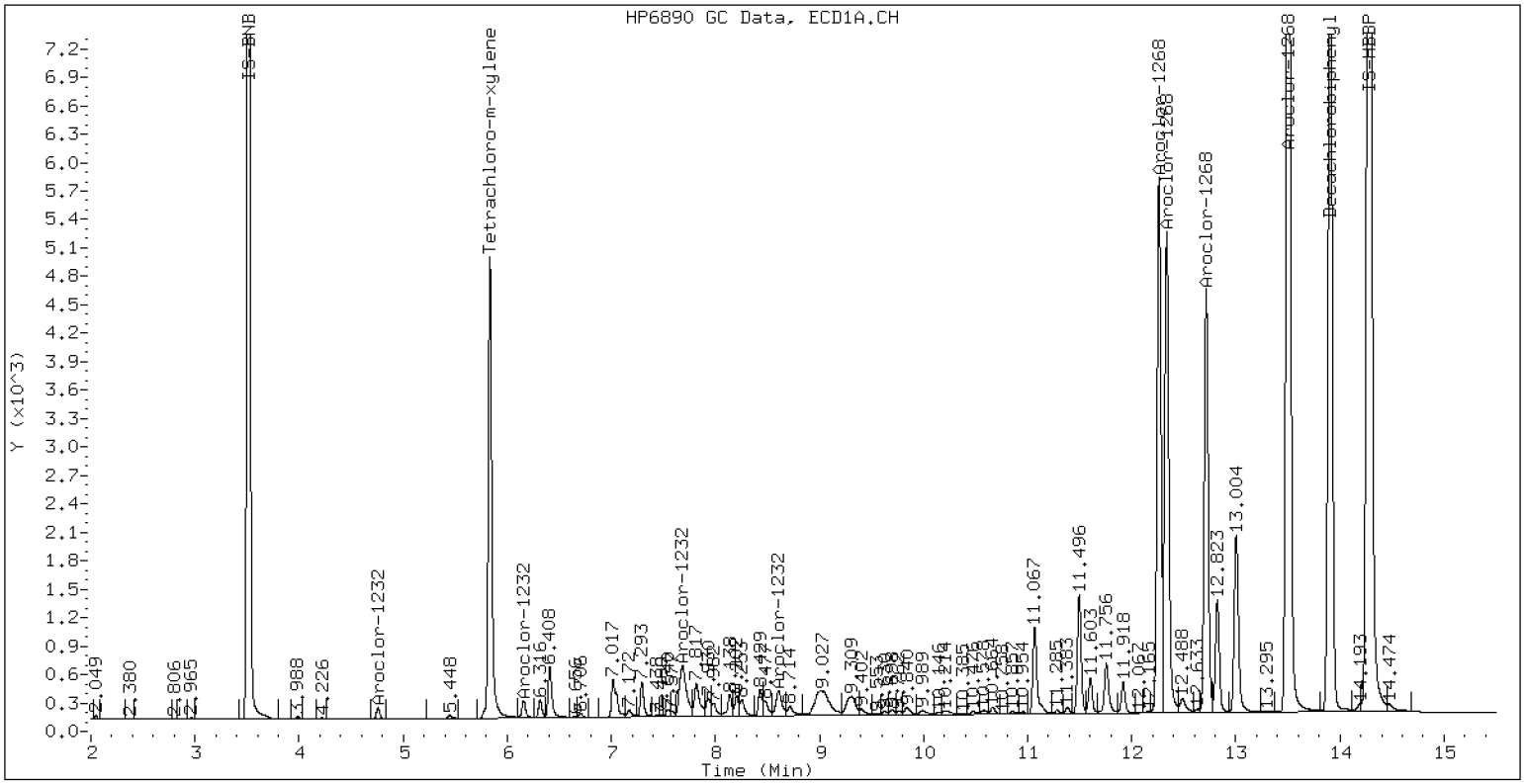
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

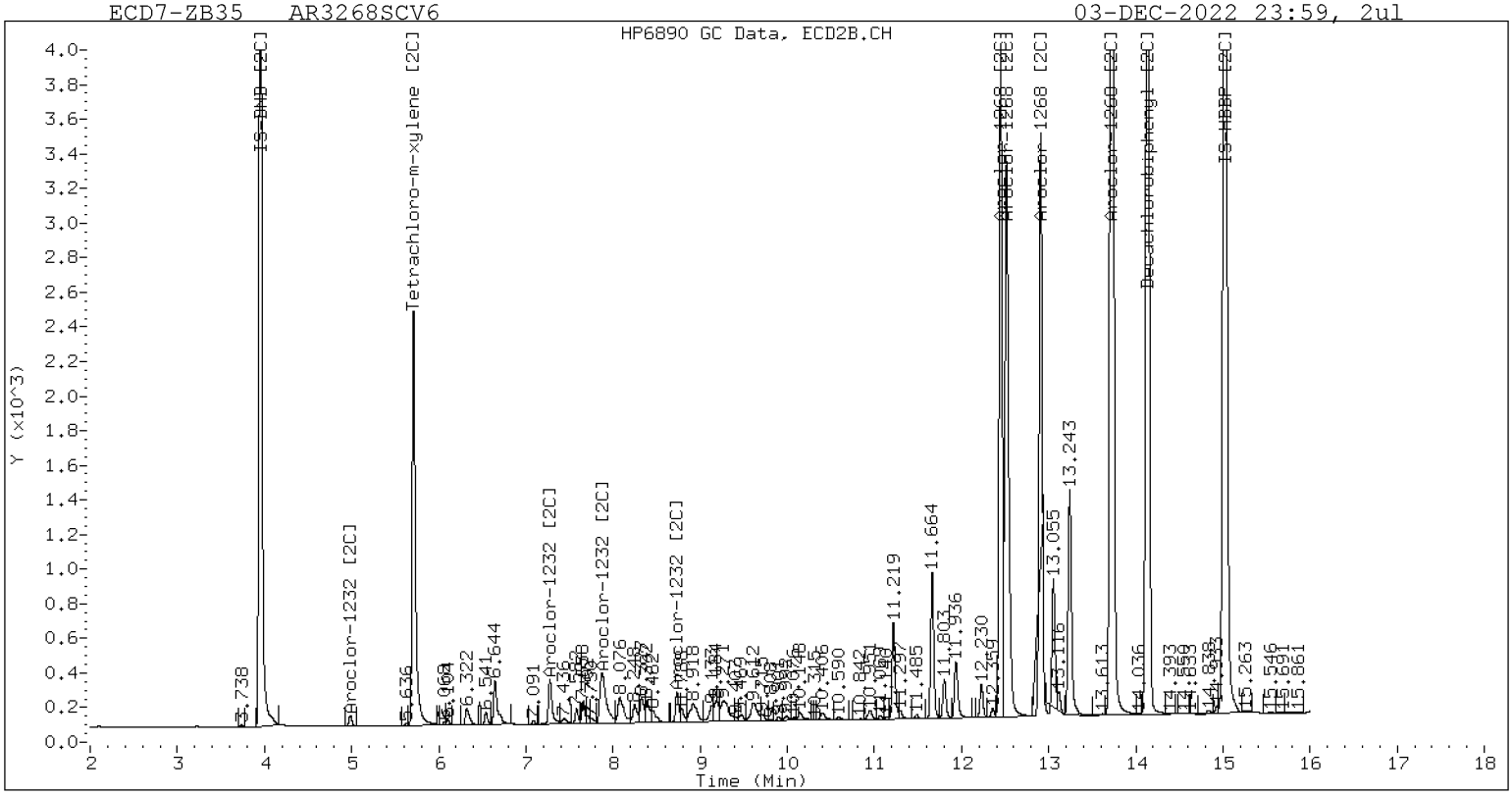
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV1
Sequence: SKL0048
Sequence Name: AR1660SCV1
Standard ID: K007655

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	223	-10.7	20.00
Aroclor 1016 [2C]	250.00	216	-13.5	20.00
Aroclor 1260	250.00	285	14.1	20.00
Aroclor 1260 [2C]	250.00	263	5.1	20.00
Decachlorobiphenyl	40.000	39.8	-0.5	20.00
Tetrachlorometaxylene	40.000	36.1	-9.7	20.00
Decachlorobiphenyl [2C]	40.000	38.2	-4.6	20.00
Tetrachlorometaxylene [2C]	40.000	36.1	-9.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

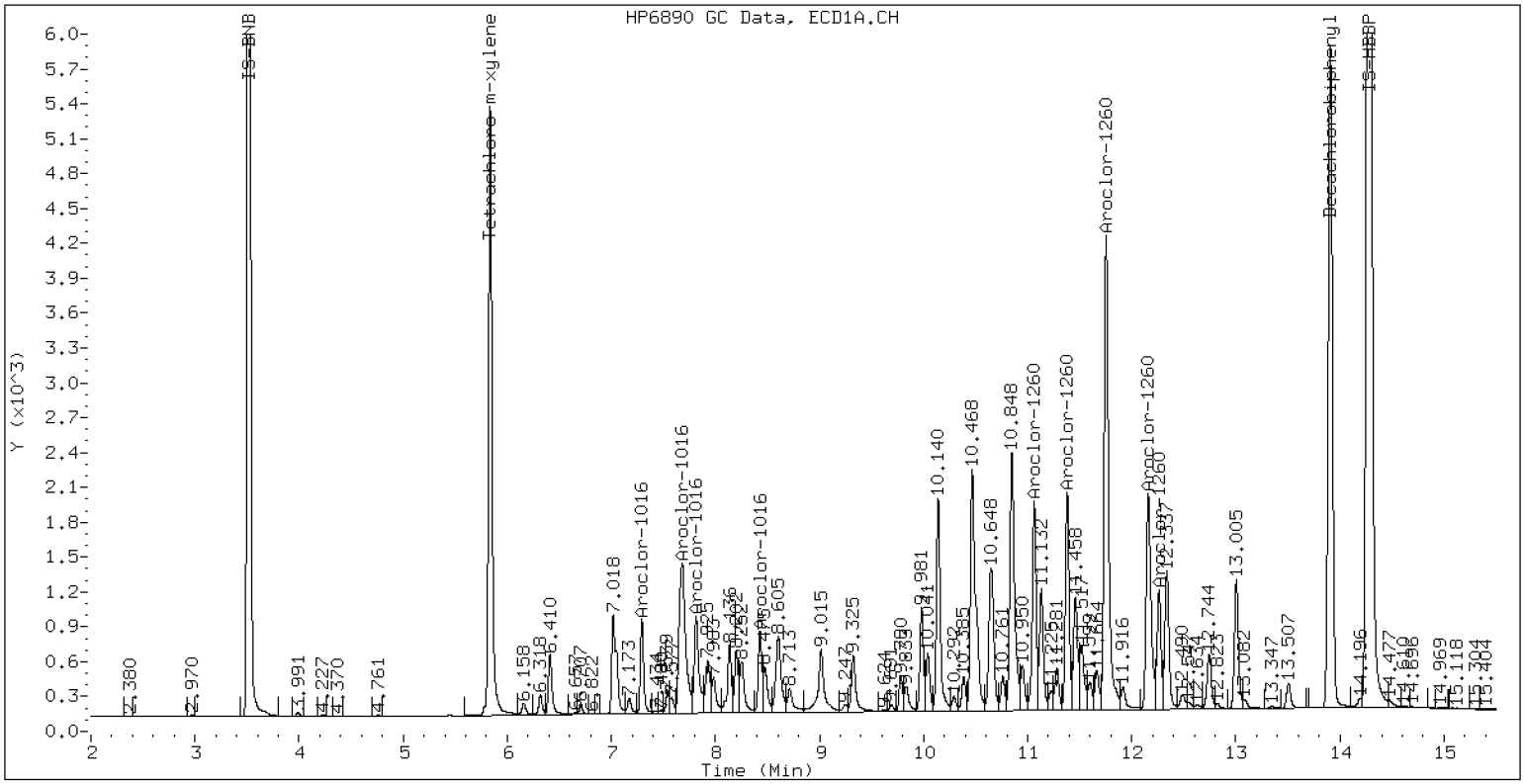
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

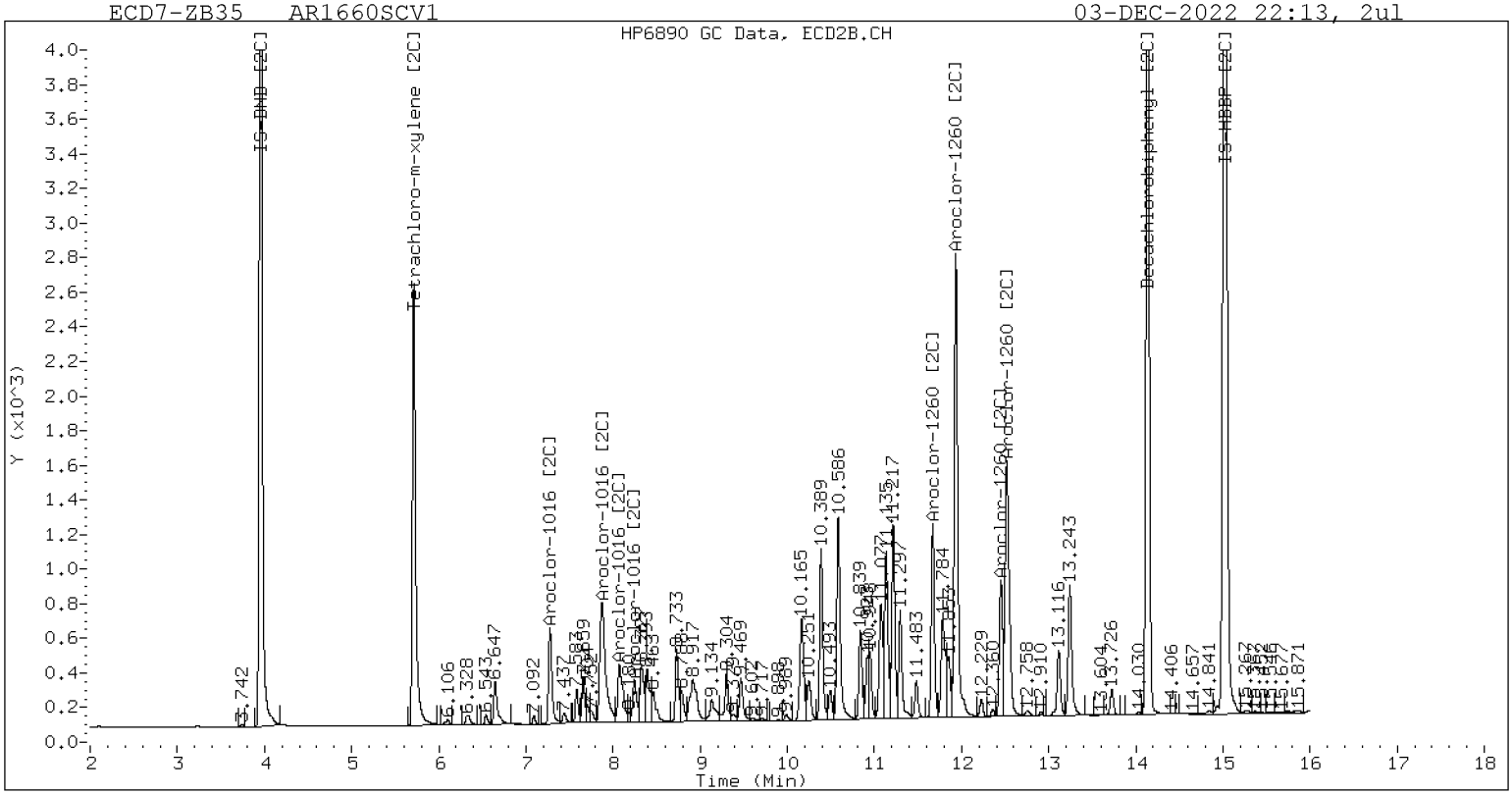
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV2
Sequence: SKL0048
Sequence Name: AR1242SCV2
Standard ID: K007656

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	207	-17.3	20.00
Aroclor 1242 [2C]	250.00	225	-10.0	20.00
Decachlorobiphenyl	40.000	39.1	-2.1	20.00
Tetrachlorometaxylene	40.000	35.6	-11.1	20.00
Decachlorobiphenyl [2C]	40.000	38.0	-5.0	20.00
Tetrachlorometaxylene [2C]	40.000	35.8	-10.5	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

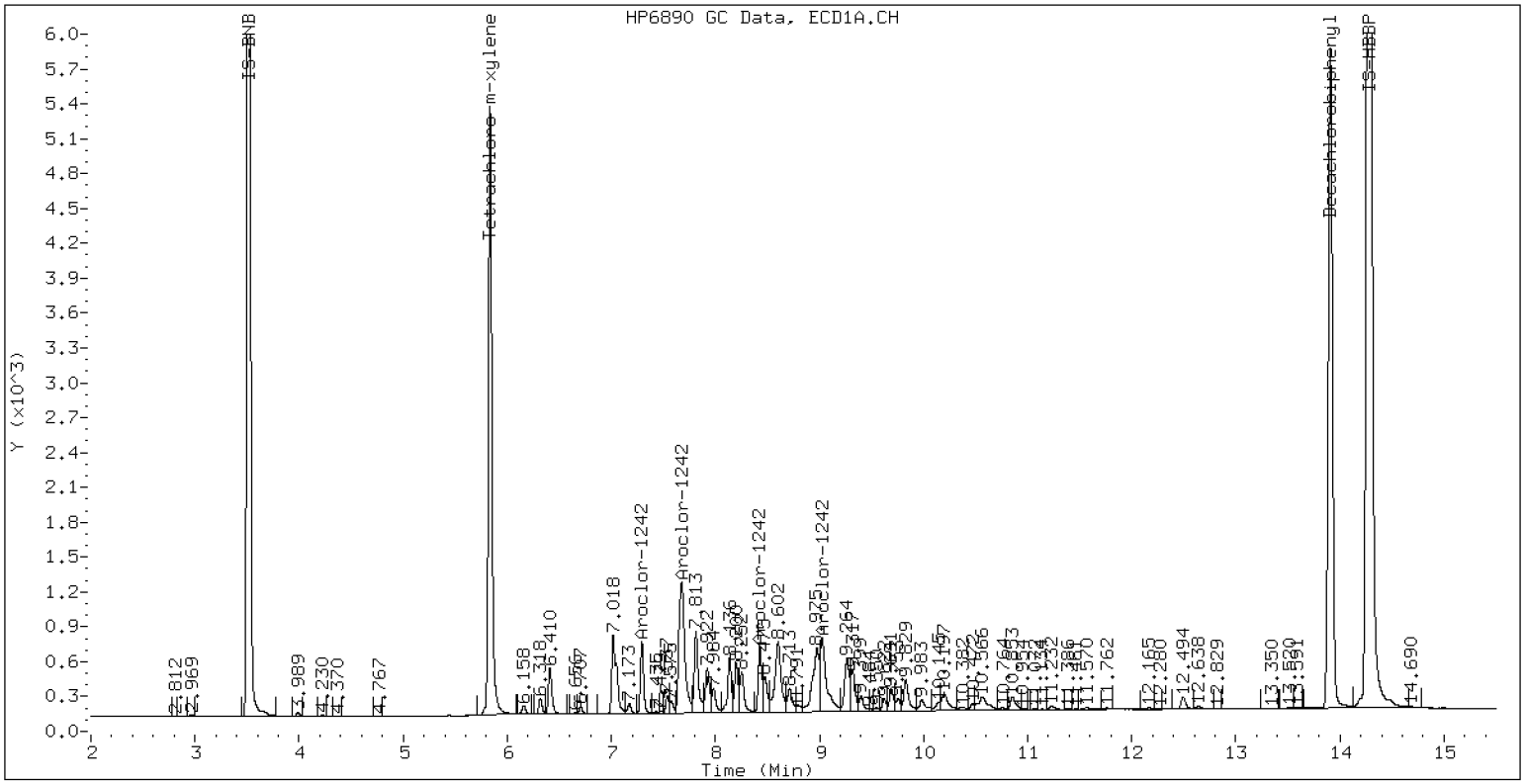
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

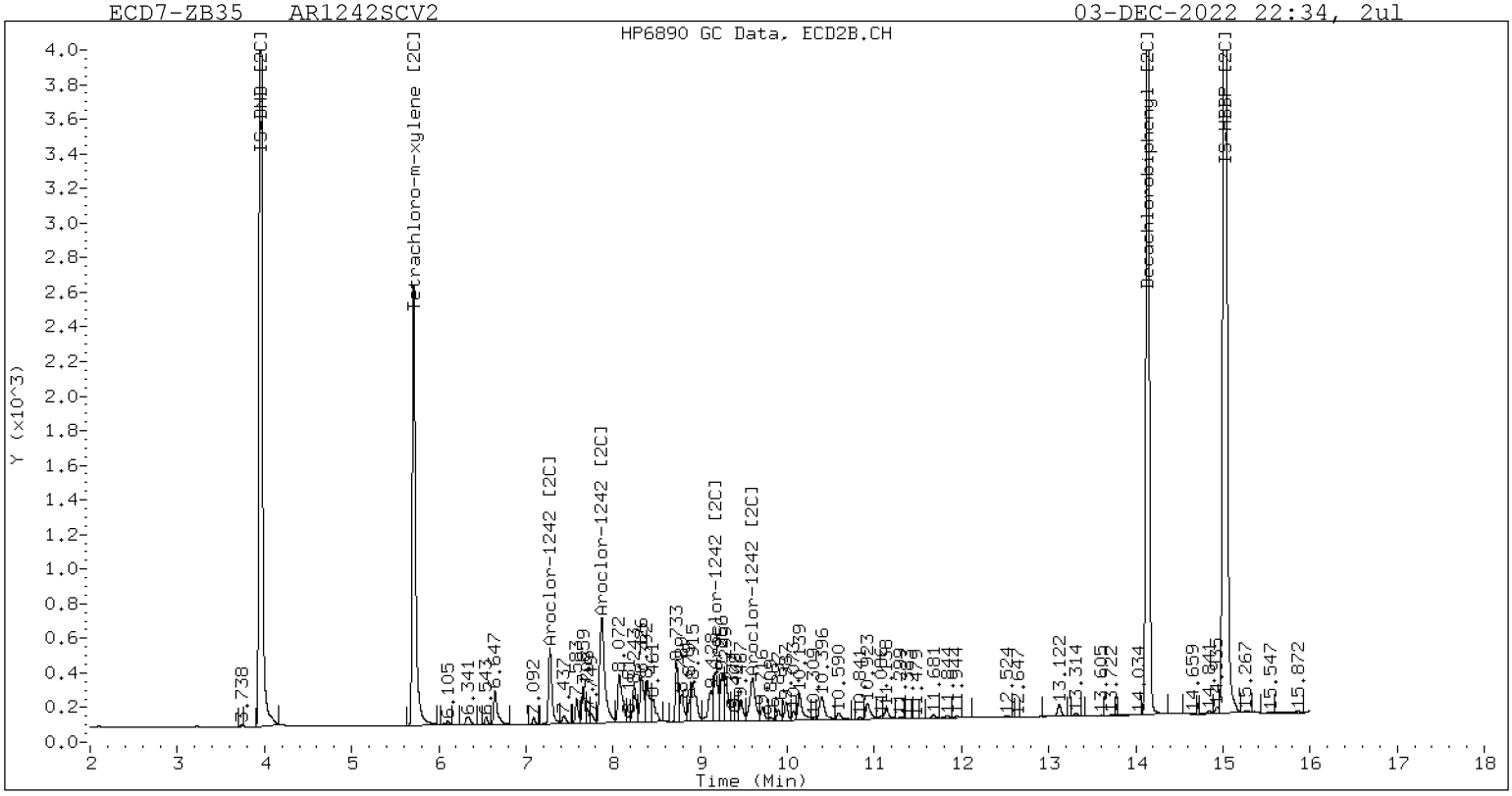
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV3
Sequence: SKL0048
Sequence Name: AR1248SCV3
Standard ID: K007657

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	246	-1.8	20.00
Aroclor 1248 [2C]	250.00	230	-7.9	20.00
Decachlorobiphenyl	40.000	39.3	-1.7	20.00
Tetrachlorometaxylene	40.000	34.7	-13.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	35.1	-12.3	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7
Total Col1Ave (4 peaks): 245.5						Total Col2Ave (4 peaks): 230.2			RPD = 6	
Corrected Ave (3 peaks): 238.8						Corrected Ave (3 peaks): 230.0			RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

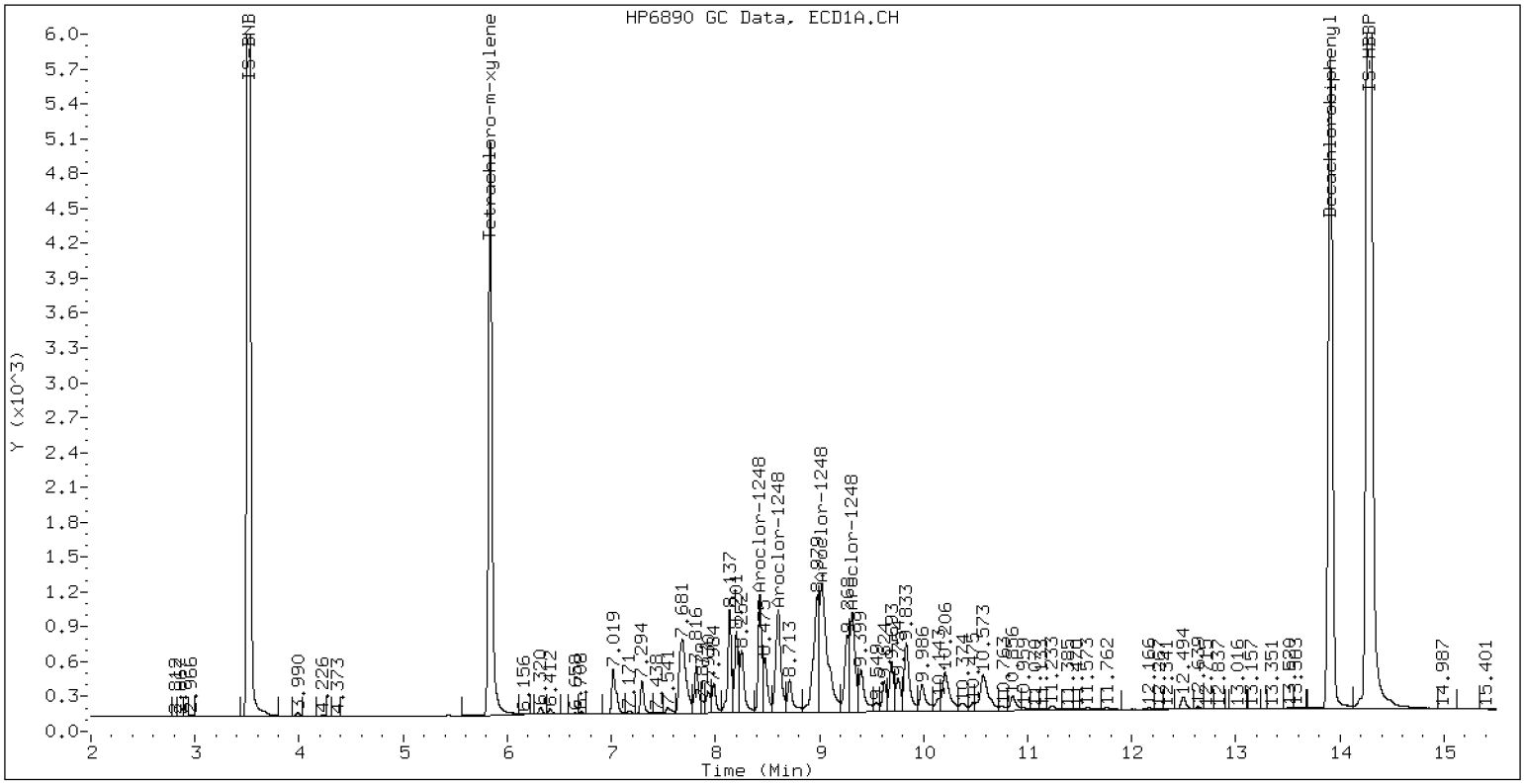
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

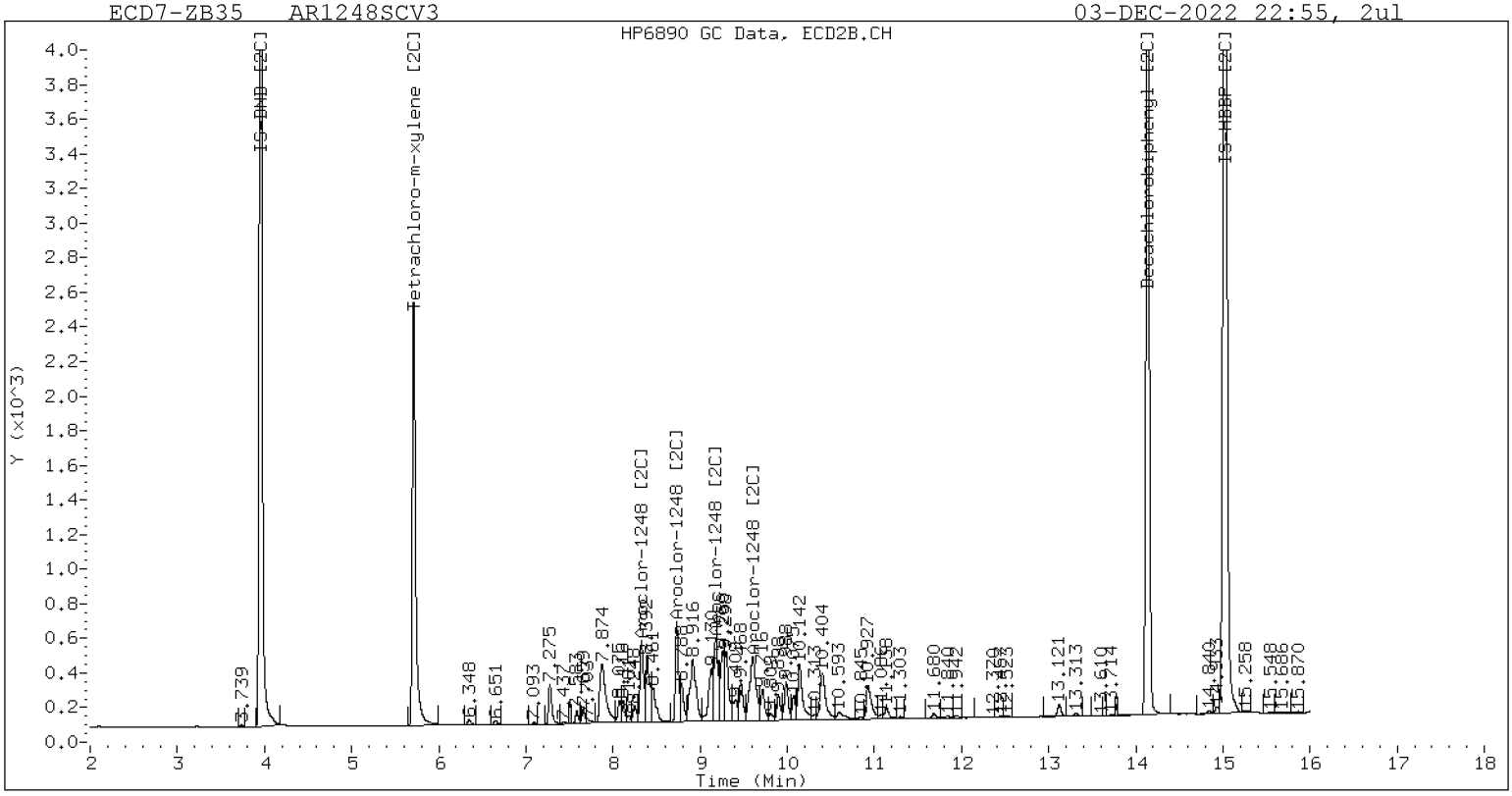
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV4
Sequence: SKL0048
Sequence Name: AR1254SCV4
Standard ID: K007658

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	228	-8.8	20.00
Aroclor 1254 [2C]	250.00	231	-7.7	20.00
Decachlorobiphenyl	40.000	39.5	-1.1	20.00
Tetrachlorometaxylene	40.000	35.5	-11.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	36.0	-10.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

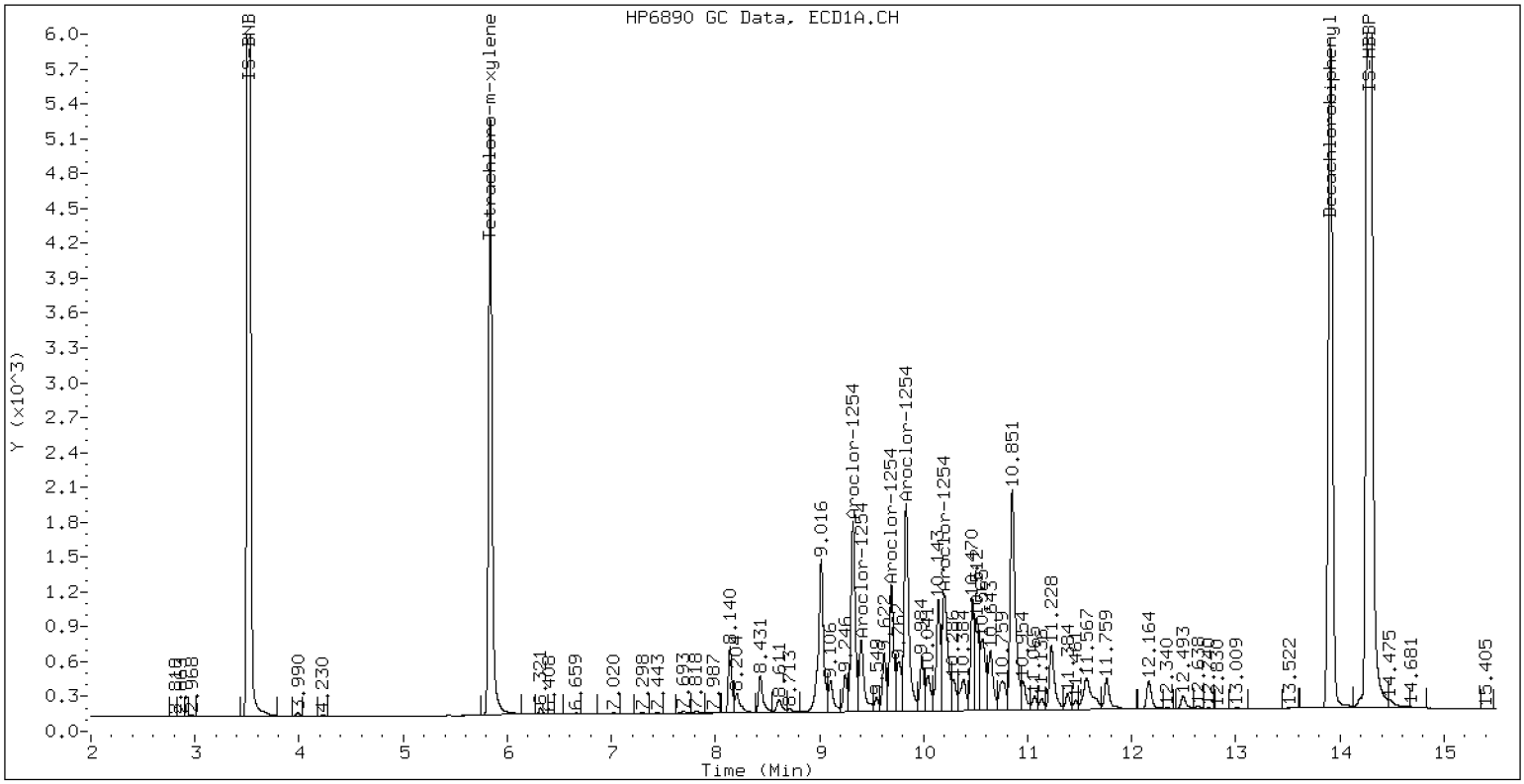
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

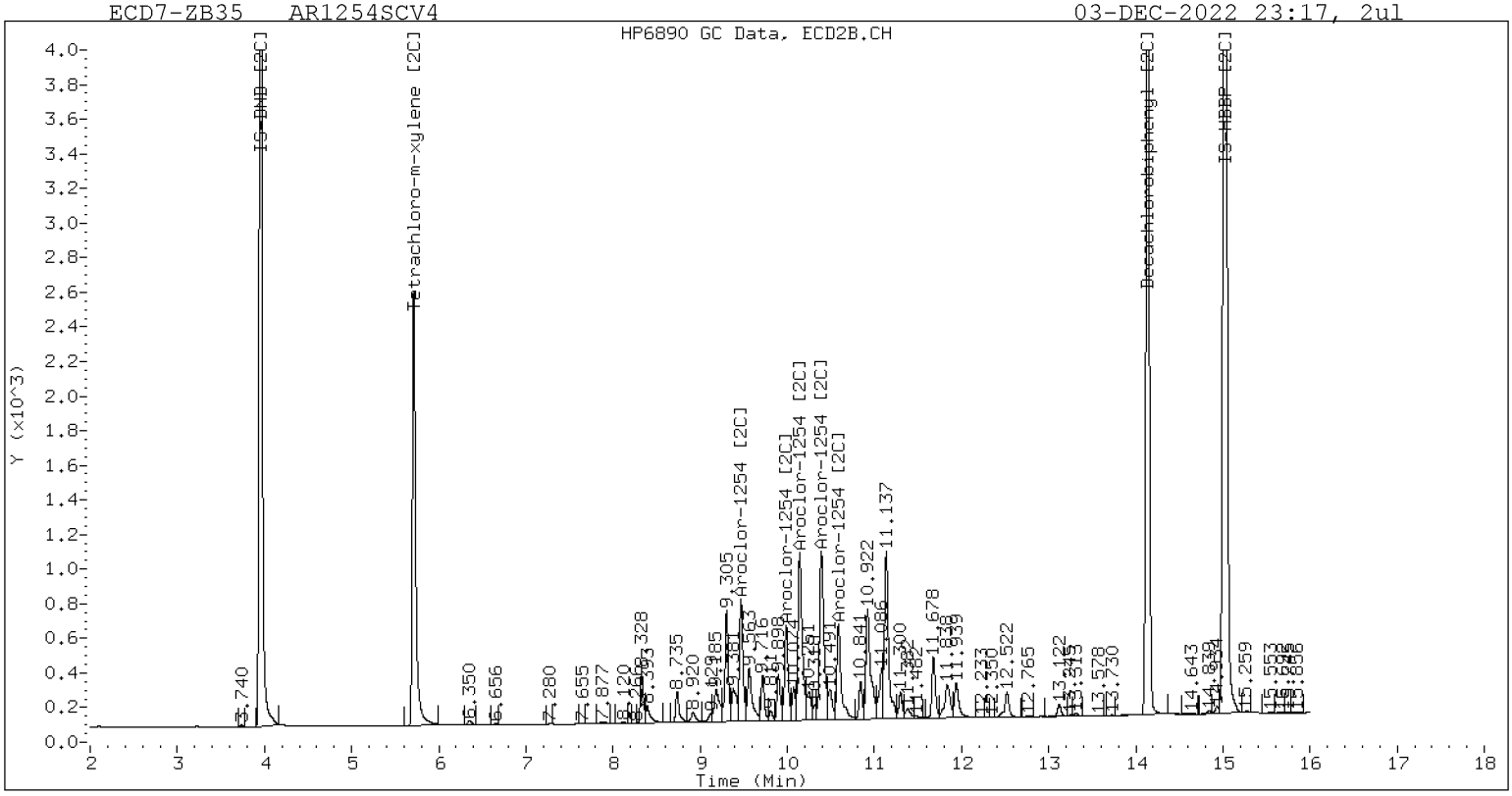
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: FL00010
Sequence: SKL0048

SDG: 22L0199
Project: AOC4 UR Phase 3
Laboratory ID: SKL0048-SCV5
Sequence Name: AR2162SCV5
Standard ID: K007659

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	237	-5.3	20.00
Aroclor 1221 [2C]	250.00	236	-5.7	20.00
Aroclor 1262	500.00	469	-6.2	20.00
Aroclor 1262 [2C]	500.00	464	-7.1	20.00
Decachlorobiphenyl	40.000	40.0	-0.04	20.00
Tetrachlorometaxylene	40.000	36.1	-9.8	20.00
Decachlorobiphenyl [2C]	40.000	38.4	-3.9	20.00
Tetrachlorometaxylene [2C]	40.000	35.7	-10.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

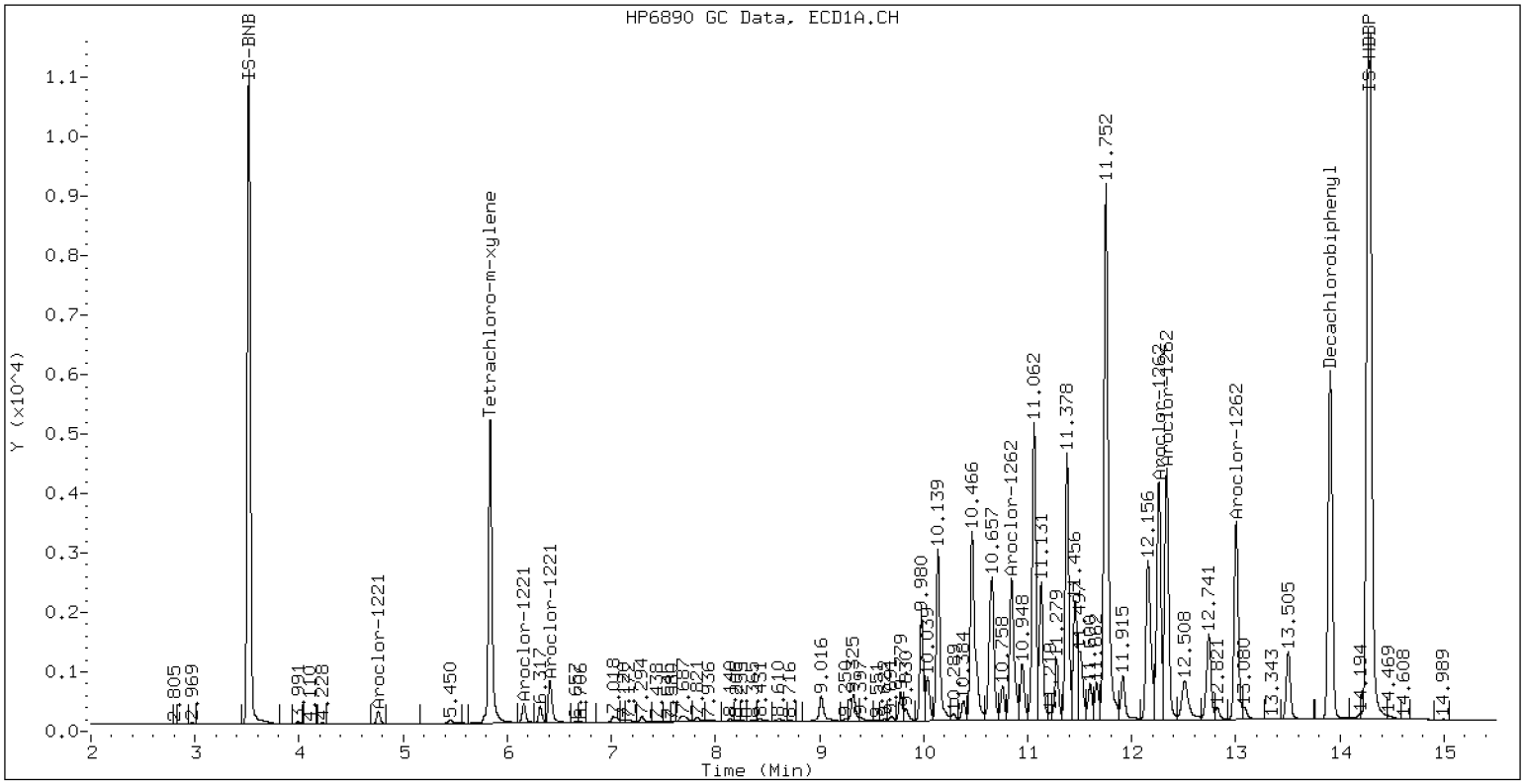
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

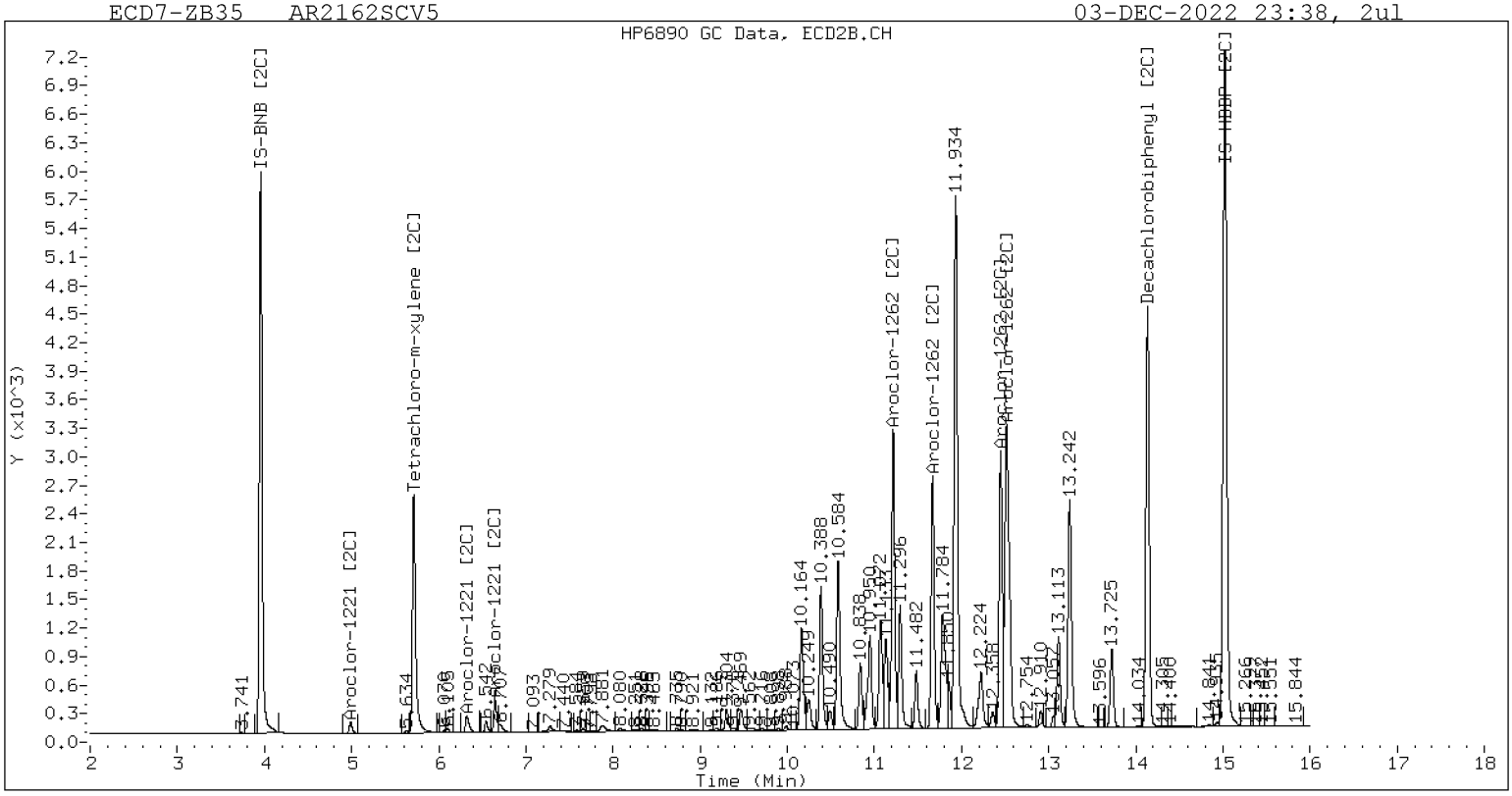
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV6
Sequence: SKL0048
Sequence Name: AR3268SCV6
Standard ID: K007660

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	217	-13.4	20.00
Aroclor 1232 [2C]	250.00	230	-7.9	20.00
Aroclor 1268	250.00	231	-7.5	20.00
Aroclor 1268 [2C]	250.00	228	-8.9	20.00
Decachlorobiphenyl	40.000	56.2	40.4	20.00
Tetrachlorometaxylene	40.000	34.5	-13.8	20.00
Decachlorobiphenyl [2C]	40.000	54.9	37.3	20.00
Tetrachlorometaxylene [2C]	40.000	34.2	-14.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

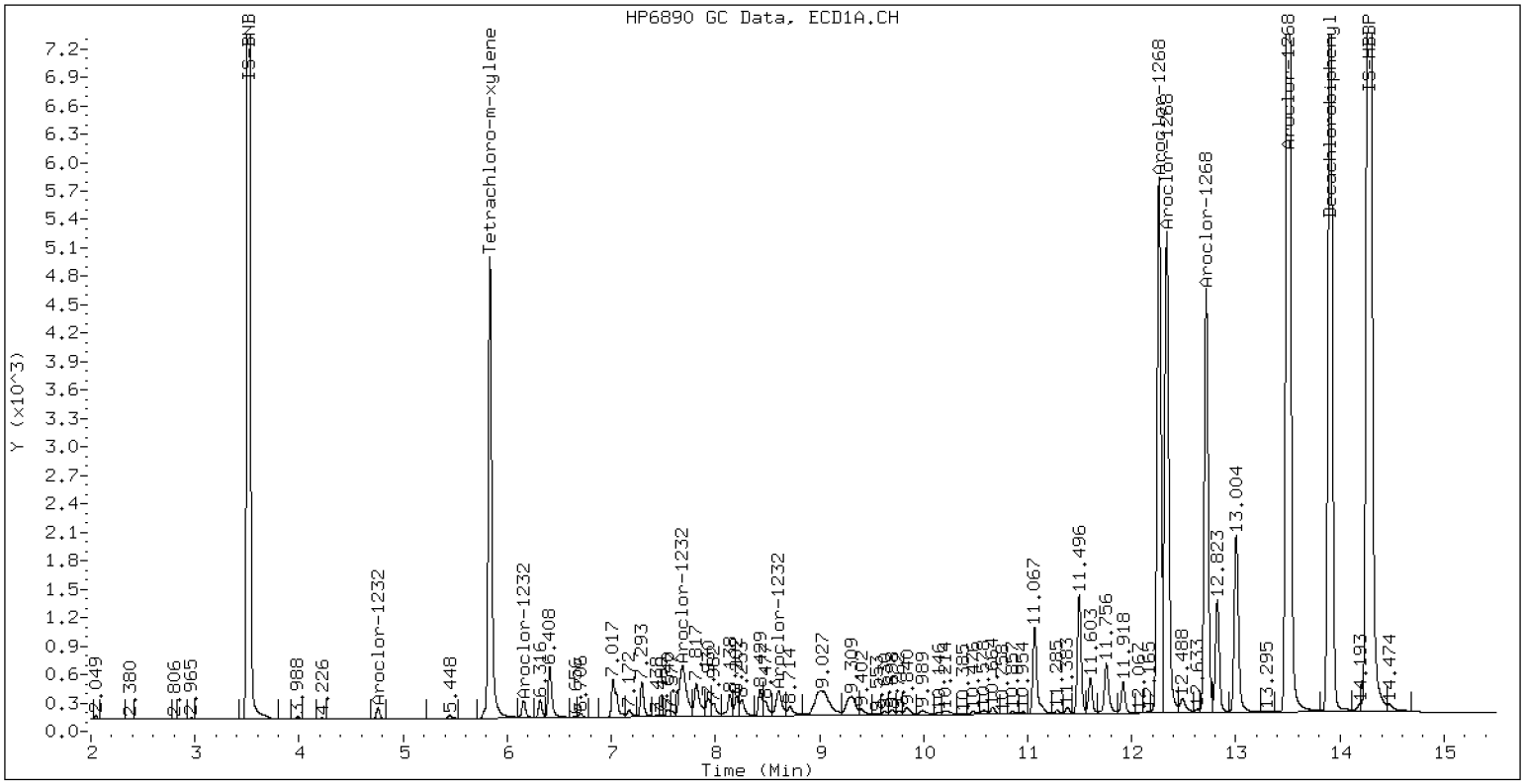
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

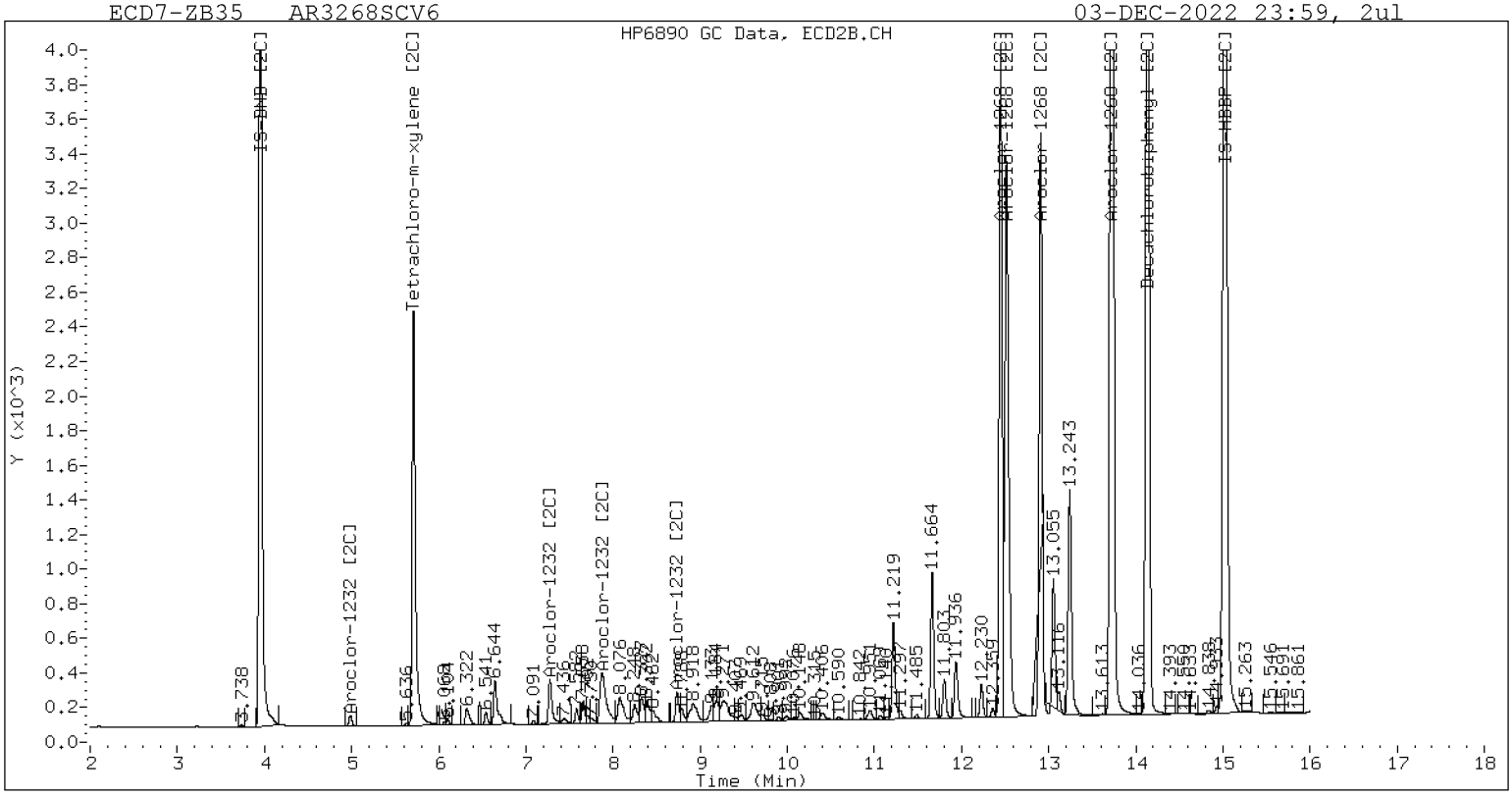
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272202ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/27/22
Lab Sample ID:	SKL0377-ICV1	Injection Time:	17:00
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	251	0.0576965	0.0585396		0.3	+/-20
Aroclor-1254 (1)	A	250.00	235	0.0704377	0.0661042			
Aroclor-1254 (2)	A	250.00	255	0.0273935	0.0279828			
Aroclor-1254 (3)	A	250.00	210	0.0444885	0.0374734			
Aroclor-1254 (4)	A	250.00	268	0.0867185	0.0930084			
Aroclor-1254 (5)	A	250.00	286	0.0594444	0.0681293			
Aroclor 1254 [2C]	A	250.00	232	0.0638047	0.0603514		-7.4	+/-20
Aroclor-1254 (1) [2C]	A	250.00	237	0.0515798	0.0488761			
Aroclor-1254 (2) [2C]	A	250.00	162	0.0414689	0.0268711			
Aroclor-1254 (3) [2C]	A	250.00	222	0.0891370	0.0790822			
Aroclor-1254 (4) [2C]	A	250.00	269	0.0923140	0.0992503			
Aroclor-1254 (5) [2C]	A	250.00	268	0.0445236	0.0476775			
Decachlorobiphenyl	A	40.000	45.4	0.7333327	0.8322169		13.5	+/-20
Tetrachlorometaxylene	A	40.000	36.7	1.1336710	1.0392020		-8.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.2	1.1358180	1.2252910		8.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.8	1.0966080	1.0084890		-8.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272202ECD7.D
Data file 2: /221227.b/221227.b/12272202ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 27-DEC-2022 17:00
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	197308	5.707	-0.002	122362	36.7	36.8	0.3	Tetrachloro-m-xylene
13.904	0.001	287114	14.129	0.001	217600	45.4	43.2	5.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	379730	-15.2
Hexabromobiphenyl	798898	689998	-13.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	242664	-2.6
Hexabromobiphenyl	362541	355181	-2.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.313	-0.008	78443	234.6	1	9.459	-0.002	37064	236.9
Aroclor-1254	2	9.392	-0.010	33206	255.4	2	9.976	-0.003	20377	162.0
Aroclor-1254	3	9.685	-0.010	44468	210.6	3	10.128	-0.002	59970	221.8
Aroclor-1254	4	9.819	-0.012	110369	268.1	4	10.376	-0.002	75264	268.8
Aroclor-1254	5	10.173	-0.016	80846	286.5	5	10.574	-0.002	36155	267.7
		Total Col1Ave (5 peaks):			251.0		Total Col2Ave (5 peaks):			231.4 RPD = 8
		Corrected Ave (4 peaks):			242.2		Corrected Ave (4 peaks):			222.1 RPD = 9
			CalAmt %D:		0.4			CalAmt %D:		-7.4

Total PCB Area Col1 (5.931 - 13.803) = 1162824 Col1 Total PCB = 0.3 ppm*

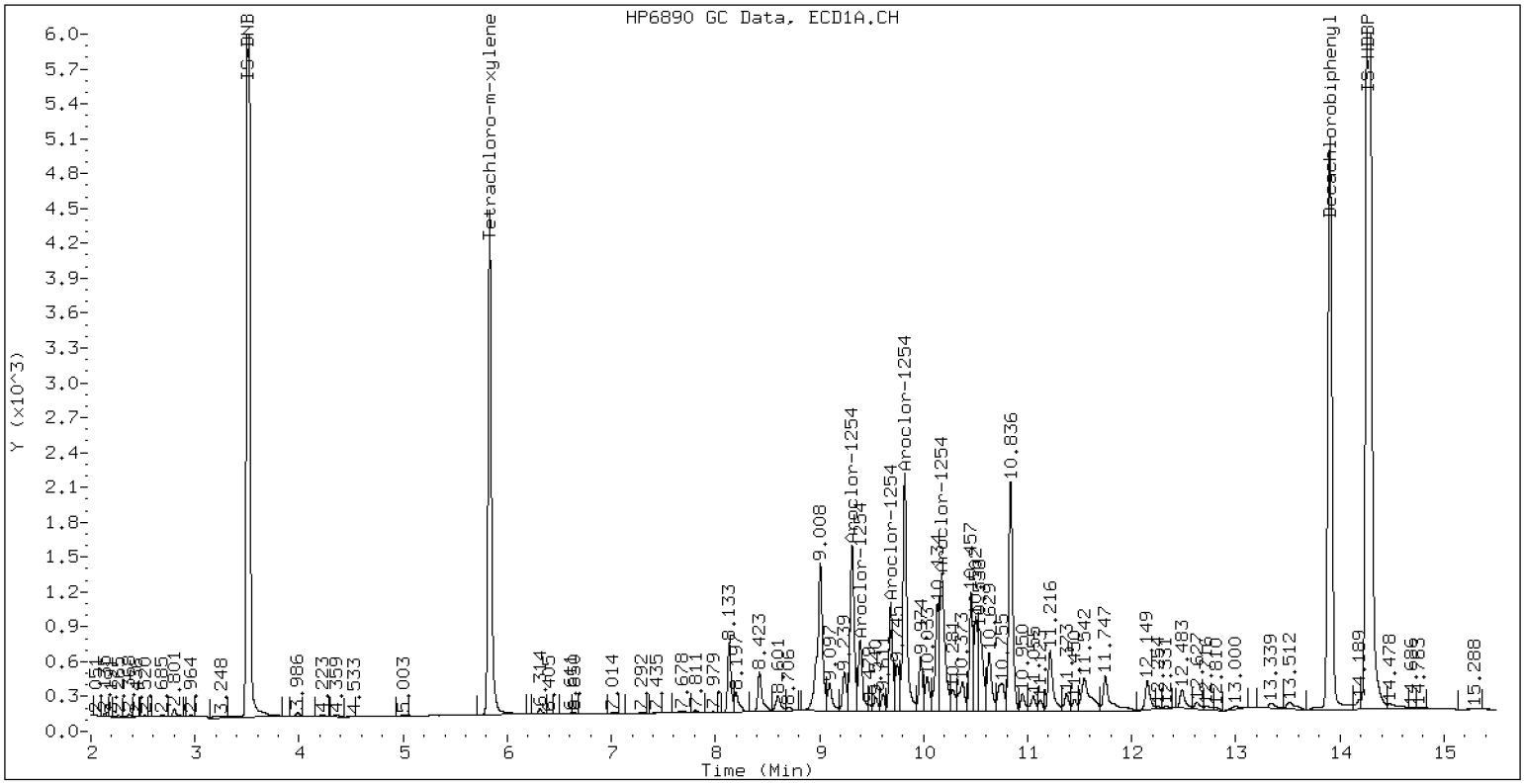
Total PCB Area Col2 (5.809 - 14.028) = 662622 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

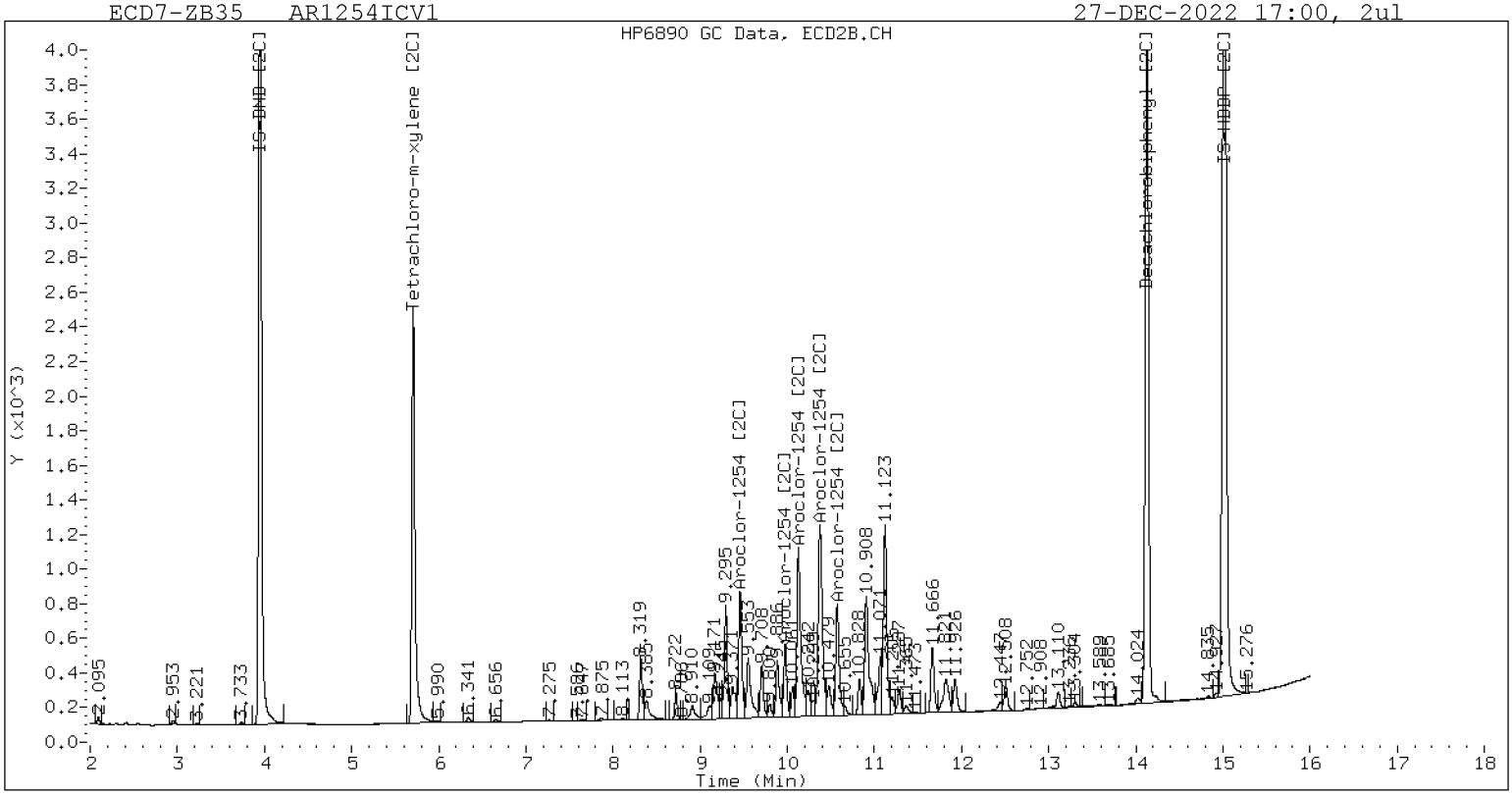
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 27-DEC-2022 17:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 27-DEC-2022 17:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272203ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/27/22
Lab Sample ID:	SKL0377-ICV2	Injection Time:	17:21
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	273	0.0441939	0.0479650		9.3	+/-20
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290174		8.8	
Aroclor-1016 (2)	A	250.00	267	0.0861572	0.0920267		6.8	
Aroclor-1016 (3)	A	250.00	276	0.0390425	0.0431185		10.4	
Aroclor-1016 (4)	A	250.00	278	0.0248899	0.0276971		11.2	
Aroclor 1016 [2C]	A	250.00	258	0.0467310	0.0460666		3.3	+/-20
Aroclor-1016 (1) [2C]	A	250.00	269	0.0409030	0.0439654		7.6	
Aroclor-1016 (2) [2C]	A	250.00	223	0.0882154	0.0785726		-10.8	
Aroclor-1016 (3) [2C]	A	250.00	259	0.0378846	0.0392872		3.6	
Aroclor-1016 (4) [2C]	A	250.00	282	0.0199212	0.0224413		12.8	
Aroclor 1260	A	250.00	290	0.0390342	0.0448714		16.0	+/-20
Aroclor-1260 (1)	A	250.00	286	0.0291201	0.0332710		14.4	
Aroclor-1260 (2)	A	250.00	286	0.0301181	0.0344691		14.4	
Aroclor-1260 (3)	A	250.00	286	0.0791351	0.0903859		14.4	
Aroclor-1260 (4)	A	250.00	286	0.0403003	0.0460385		14.4	
Aroclor-1260 (5)	A	250.00	306	0.0164974	0.0201924		22.4	
Aroclor 1260 [2C]	A	250.00	222	0.0617619	0.0507589		-11.3	+/-20
Aroclor-1260 (1) [2C]	A	250.00	248	0.0422283	0.0418607		-0.8	
Aroclor-1260 (2) [2C]	A	250.00	179	0.1059643	0.0758629		-28.4	
Aroclor-1260 (3) [2C]	A	250.00	263	0.0282173	0.0296939		5.2	
Aroclor-1260 (4) [2C]	A	250.00	197	0.0706376	0.0556181		-21.2	
Decachlorobiphenyl	A	40.000	45.6	0.7333327	0.8351911		14.0	+/-20
Tetrachlorometaxylene	A	40.000	41.3	1.1336710	1.1699360		3.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1786150		3.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	42.3	1.0966080	1.1597770		5.8	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272203ECD7.D
Data file 2: /221227.b/221227.b/12272203ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 27-DEC-2022 17:21
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	160493	5.709	0.000	102377	41.3	42.3	2.5	Tetrachloro-m-xylene
13.901	-0.002	245271	14.128	-0.001	174385	45.6	41.5	9.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	274362	-38.7
Hexabromobiphenyl	798898	587341	-26.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	176546	-29.1
Hexabromobiphenyl	362541	295915	-18.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.000	24879	271.8	1	7.271	-0.001	24256	268.7
Aroclor-1016	2	7.676	0.004	78902	267.0	2	7.869	-0.002	43349	222.7
Aroclor-1016	3	7.810	0.000	36969	276.1	3	8.069	-0.003	21675	259.3
Aroclor-1016	4	8.422	-0.001	23747	278.2	4	8.240	-0.002	12381	281.6
Total Col1Ave (4 peaks):					273.3	Total Col2Ave (4 peaks):				258.1 RPD = 6
Corrected Ave (3 peaks):					271.7	Corrected Ave (3 peaks):				250.2 RPD = 8
CalAmt %D:					9.3	CalAmt %D:				3.2
Aroclor-1260	1	11.055	-0.000	61067	285.6	1	11.661	-0.002	38710	247.8
Aroclor-1260	2	11.372	0.000	63266	286.1	2	11.924	-0.002	70153	179.0
Aroclor-1260	3	11.745	0.001	165898	285.5	3	12.442	-0.003	27459	263.1
Aroclor-1260	4	12.148	-0.001	84501	285.6	4	12.507	-0.002	51432	196.8
Aroclor-1260	5	12.255	-0.001	37062	306.0	NS	---			----
Total Col1Ave (5 peaks):					289.8	Total Col2Ave (4 peaks):				221.7 RPD = 27
Corrected Ave (4 peaks):					285.7	Corrected Ave (3 peaks):				207.9 RPD = 32
CalAmt %D:					15.9	CalAmt %D:				-11.3

Total PCB Area Col1 (5.931 - 13.803) = 1712730 Col1 Total PCB = 0.7 ppm*

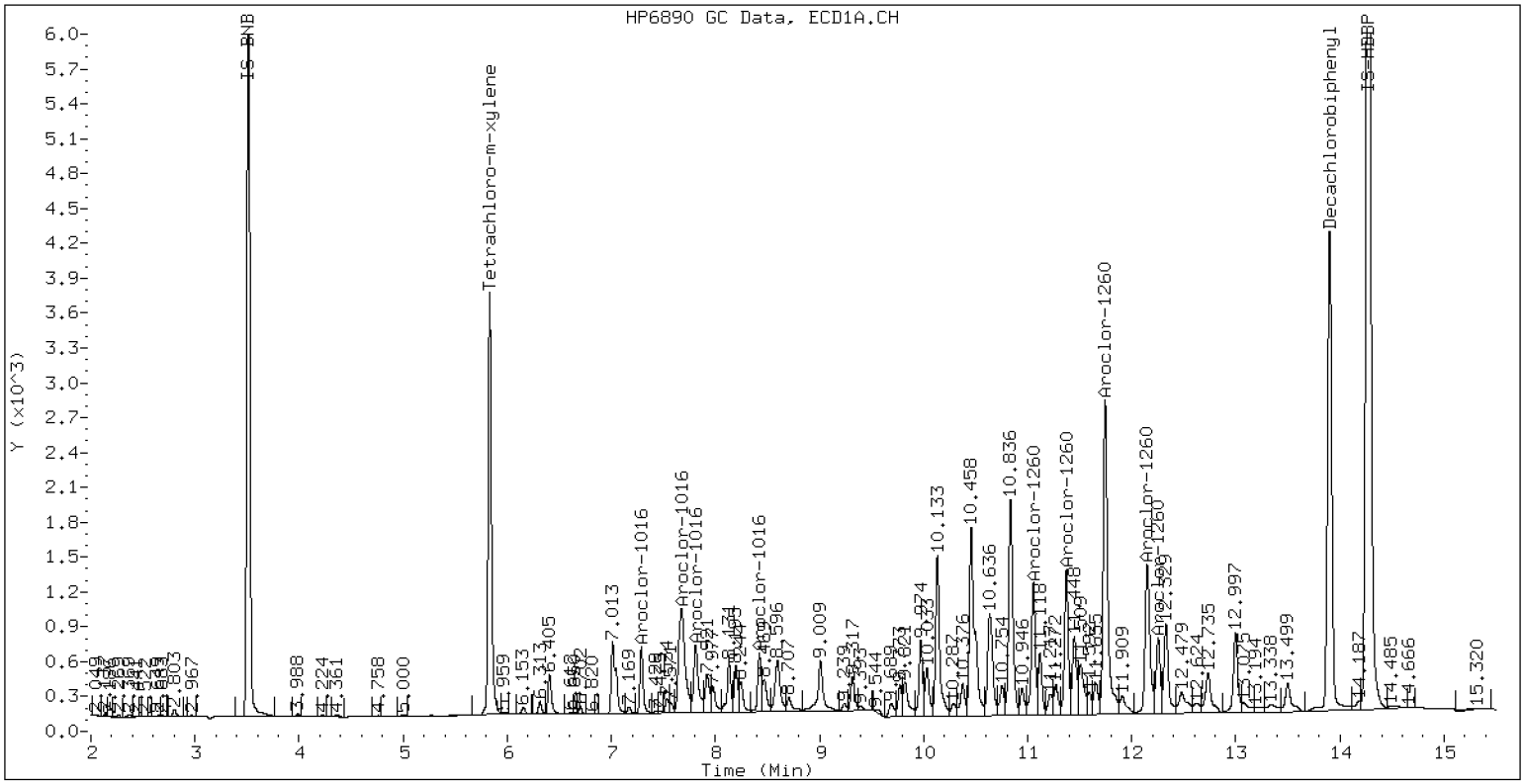
Total PCB Area Col2 (5.809 - 14.028) = 864295 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

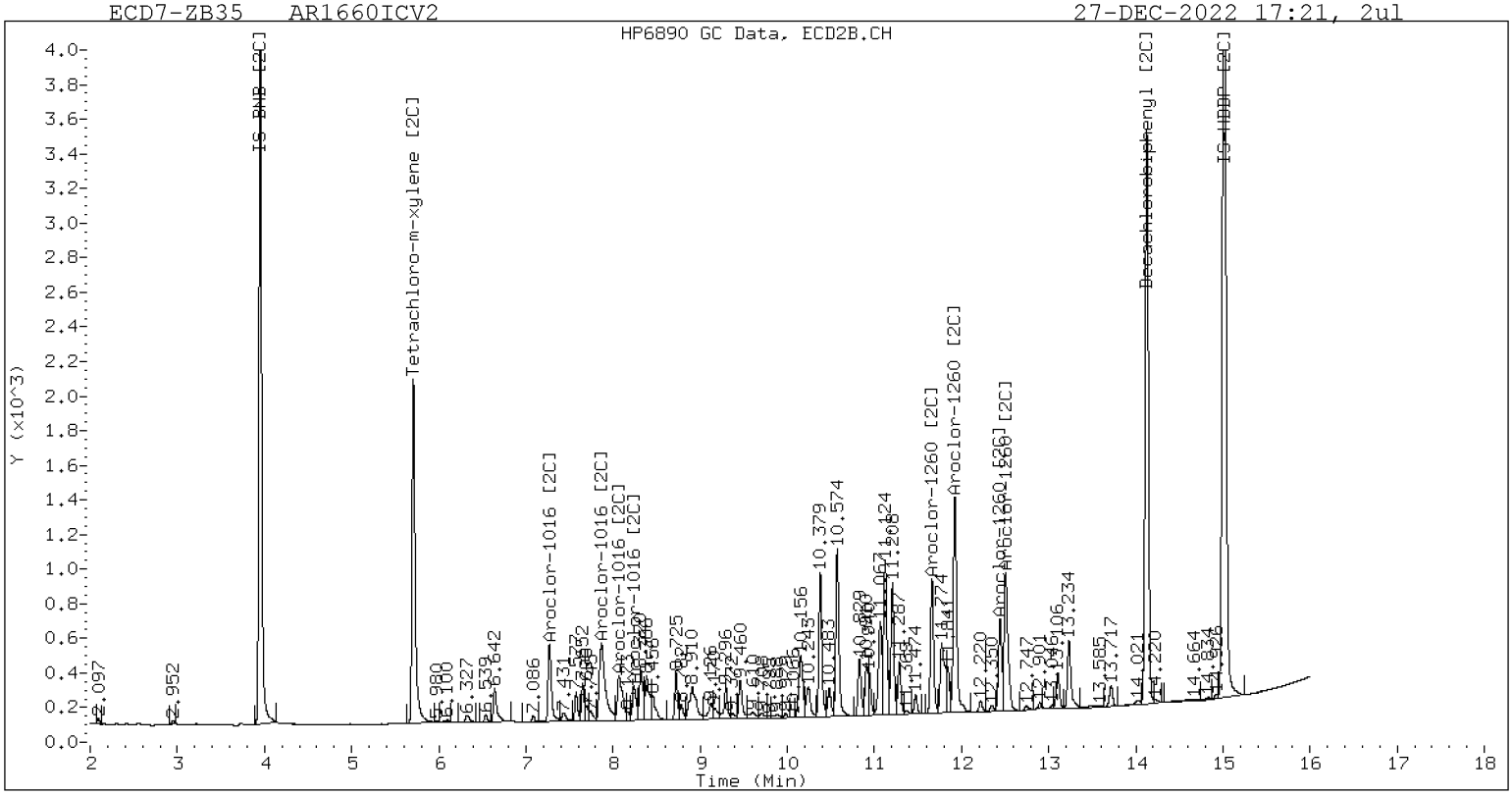
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 27-DEC-2022 17:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 27-DEC-2022 17:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302202ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/30/22
Lab Sample ID:	SLA0035-ICV1	Injection Time:	11:41
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	276	0.0576965	0.0643013		10.4	
Aroclor-1254 (1)	A	250.00	256	0.0704377	0.0721085			
Aroclor-1254 (2)	A	250.00	288	0.0273935	0.0315139			
Aroclor-1254 (3)	A	250.00	227	0.0444885	0.0404790			
Aroclor-1254 (4)	A	250.00	298	0.0867185	0.1035509			
Aroclor-1254 (5)	A	250.00	311	0.0594444	0.0738540			
Aroclor 1254 [2C]	A	250.00	247	0.0638047	0.0643644		-1.2	
Aroclor-1254 (1) [2C]	A	250.00	251	0.0515798	0.0518165			
Aroclor-1254 (2) [2C]	A	250.00	174	0.0414689	0.0288353			
Aroclor-1254 (3) [2C]	A	250.00	233	0.0891370	0.0830565			
Aroclor-1254 (4) [2C]	A	250.00	290	0.0923140	0.1069379			
Aroclor-1254 (5) [2C]	A	250.00	287	0.0445236	0.0511756			
Decachlorobiphenyl	A	40.000	44.1	0.7333327	0.8080738		10.3	
Tetrachlorometaxylene	A	40.000	35.7	1.1336710	1.0118090		-10.8	
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1587810		2.0	
Tetrachlorometaxylene [2C]	A	40.000	35.3	1.0966080	0.9676973		-11.8	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302202ECD7.D
Data file 2: /221230.b/221230.b/12302202ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 30-DEC-2022 11:41
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	183358	5.708	-0.002	114736	35.7	35.3	1.1	Tetrachloro-m-xylene
13.905	0.003	347479	14.130	0.002	238407	44.1	40.8	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	362436	-19.0
Hexabromobiphenyl	798898	860018	7.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	237132	-4.8
Hexabromobiphenyl	362541	411479	13.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.315	-0.006	81671	255.9	1	9.461	0.001	38398	251.1
Aroclor-1254	2	9.395	-0.007	35693	287.6	2	9.978	-0.000	21368	173.8
Aroclor-1254	3	9.687	-0.008	45847	227.5	3	10.130	0.002	61548	232.9
Aroclor-1254	4	9.822	-0.009	117283	298.5	4	10.378	0.002	79245	289.6
Aroclor-1254	5	10.177	-0.013	83648	310.6	5	10.576	0.001	37923	287.4

Total Col1Ave (5 peaks): 276.0 Total Col2Ave (5 peaks): 247.0 RPD = 11

Corrected Ave (4 peaks): 267.4 Corrected Ave (4 peaks): 236.3 RPD = 12

CalAmt %D: 10.4 CalAmt %D: -1.2

Total PCB Area Col1 (5.933 - 13.802) = 1253628 Col1 Total PCB = 0.4 ppm*

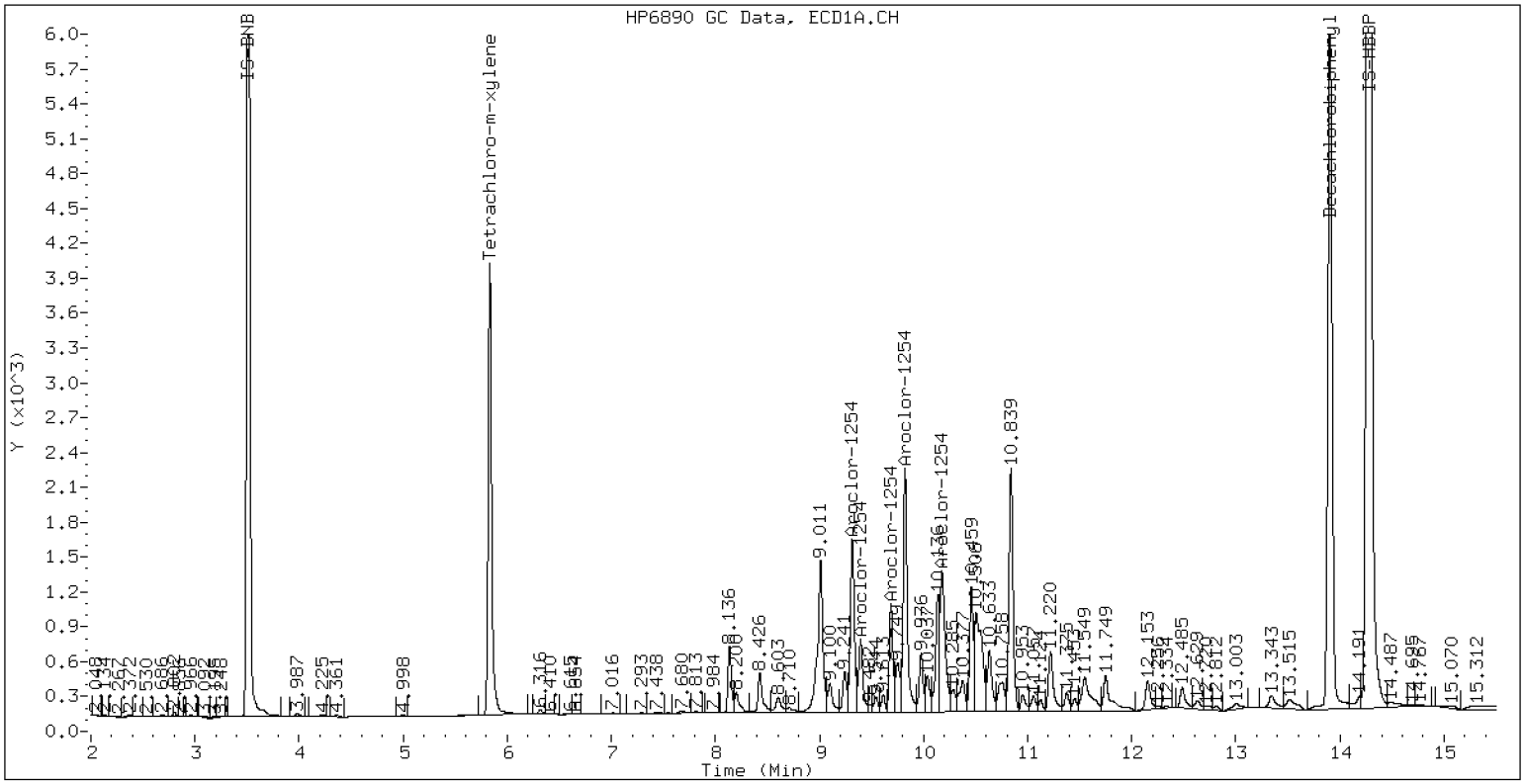
Total PCB Area Col2 (5.810 - 14.028) = 687825 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

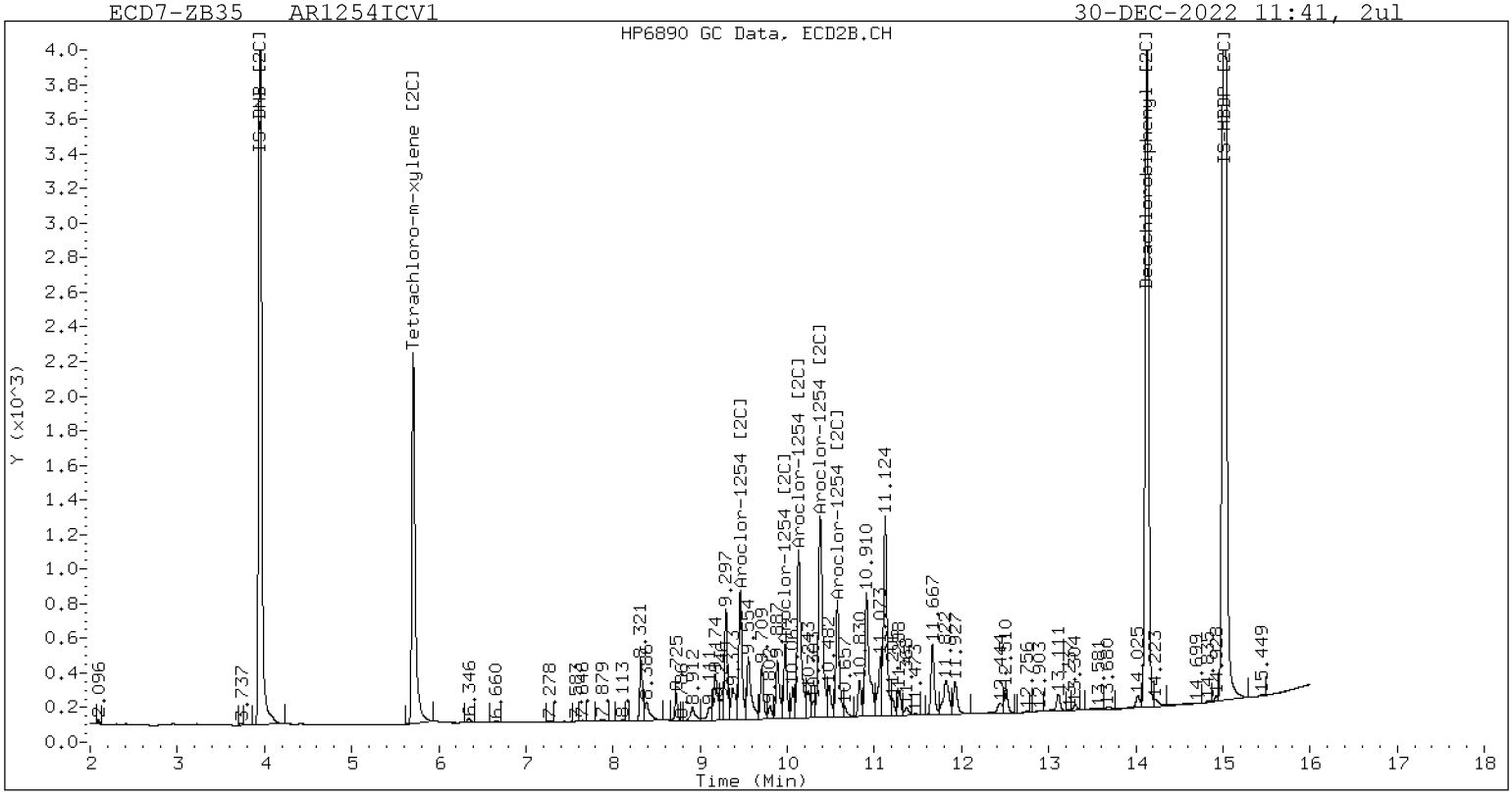
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 30-DEC-2022 11:41, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 30-DEC-2022 11:41, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302203ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/30/22
Lab Sample ID:	SLA0035-ICV2	Injection Time:	12:02
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	267	0.0441939	0.0465274		6.6	
Aroclor-1016 (1)	A	250.00	258	0.0266860	0.0275061		3.2	
Aroclor-1016 (2)	A	250.00	256	0.0861572	0.0883139		2.4	
Aroclor-1016 (3)	A	250.00	270	0.0390425	0.0422529		8.0	
Aroclor-1016 (4)	A	250.00	282	0.0248899	0.0280369		12.8	
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0426376		-4.1	
Aroclor-1016 (1) [2C]	A	250.00	246	0.0409030	0.0401873		-1.6	
Aroclor-1016 (2) [2C]	A	250.00	204	0.0882154	0.0720963		-18.4	
Aroclor-1016 (3) [2C]	A	250.00	246	0.0378846	0.0372865		-1.6	
Aroclor-1016 (4) [2C]	A	250.00	263	0.0199212	0.0209803		5.2	
Aroclor 1260	A	250.00	253	0.0390342	0.0392654		1.2	
Aroclor-1260 (1)	A	250.00	251	0.0291201	0.0292648		0.4	
Aroclor-1260 (2)	A	250.00	251	0.0301181	0.0302941		0.4	
Aroclor-1260 (3)	A	250.00	252	0.0791351	0.0797407		0.8	
Aroclor-1260 (4)	A	250.00	245	0.0403003	0.0394590		-2.0	
Aroclor-1260 (5)	A	250.00	266	0.0164974	0.0175685		6.4	
Aroclor 1260 [2C]	A	250.00	202	0.0617619	0.0459794		-19.4	
Aroclor-1260 (1) [2C]	A	250.00	229	0.0422283	0.0386970		-8.4	
Aroclor-1260 (2) [2C]	A	250.00	160	0.1059643	0.0679476		-36.0	
Aroclor-1260 (3) [2C]	A	250.00	239	0.0282173	0.0270178		-4.4	
Aroclor-1260 (4) [2C]	A	250.00	178	0.0706376	0.0502550		-28.8	
Decachlorobiphenyl	A	40.000	44.2	0.7333327	0.8097115		10.5	
Tetrachlorometaxylene	A	40.000	38.5	1.1336710	1.0904110		-3.8	
Decachlorobiphenyl [2C]	A	40.000	40.2	1.1358180	1.1406180		0.5	
Tetrachlorometaxylene [2C]	A	40.000	39.5	1.0966080	1.0825050		-1.3	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302203ECD7.D
Data file 2: /221230.b/221230.b/12302203ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 30-DEC-2022 12:02
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	140005	5.709	-0.001	90636	38.5	39.5	2.6	Tetrachloro-m-xylene
13.904	0.002	268340	14.128	-0.001	182183	44.2	40.2	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	256793	-42.6
Hexabromobiphenyl	798898	662804	-17.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	167456	-32.8
Hexabromobiphenyl	362541	319446	-11.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.000	22073	257.7	1	7.272	-0.000	21030	245.6
Aroclor-1016	2	7.678	0.000	70870	256.3	2	7.872	0.000	37728	204.3
Aroclor-1016	3	7.812	-0.000	33907	270.6	3	8.070	-0.001	19512	246.1
Aroclor-1016	4	8.424	0.000	22499	281.6	4	8.242	-0.001	10979	263.3
Total Col1Ave (4 peaks):					266.5	Total Col2Ave (4 peaks):				239.8 RPD = 11
Corrected Ave (3 peaks):					261.5	Corrected Ave (3 peaks):				232.0 RPD = 12
CalAmt %D:					6.6	CalAmt %D:				-4.1
Aroclor-1260	1	11.056	-0.000	60615	251.2	1	11.662	0.000	38630	229.1
Aroclor-1260	2	11.373	0.001	62747	251.5	2	11.926	0.001	67830	160.3
Aroclor-1260	3	11.746	-0.000	165164	251.9	3	12.444	0.001	26971	239.4
Aroclor-1260	4	12.151	0.004	81730	244.8	4	12.508	0.001	50168	177.9
Aroclor-1260	5	12.256	0.000	36389	266.2	NS	---			----
Total Col1Ave (5 peaks):					253.1	Total Col2Ave (4 peaks):				201.7 RPD = 23
Corrected Ave (4 peaks):					249.8	Corrected Ave (3 peaks):				189.1 RPD = 28
CalAmt %D:					1.3	CalAmt %D:				-19.3

Total PCB Area Col1 (5.933 - 13.802) = 1638515 Col1 Total PCB = 0.7 ppm*

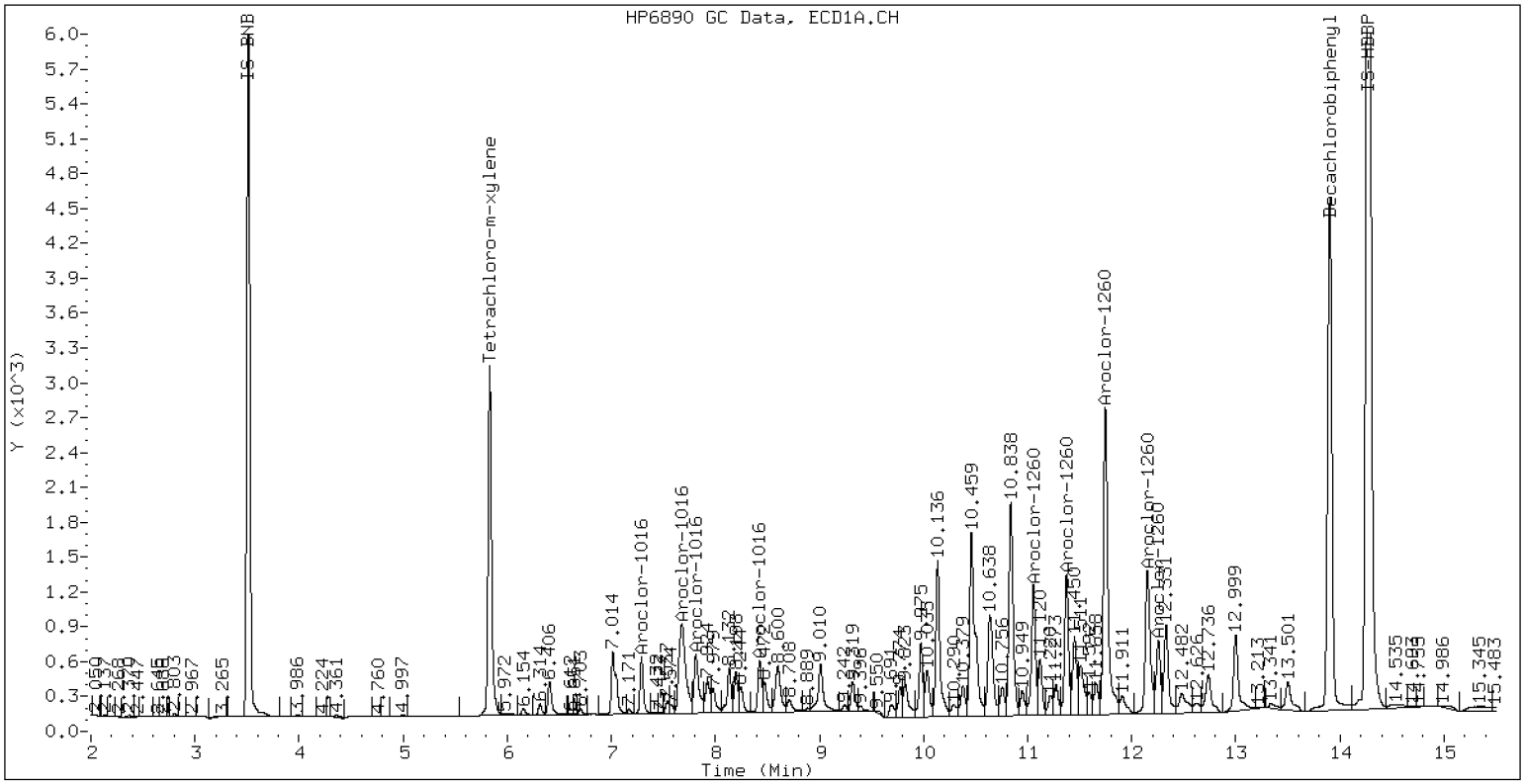
Total PCB Area Col2 (5.810 - 14.028) = 813512 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

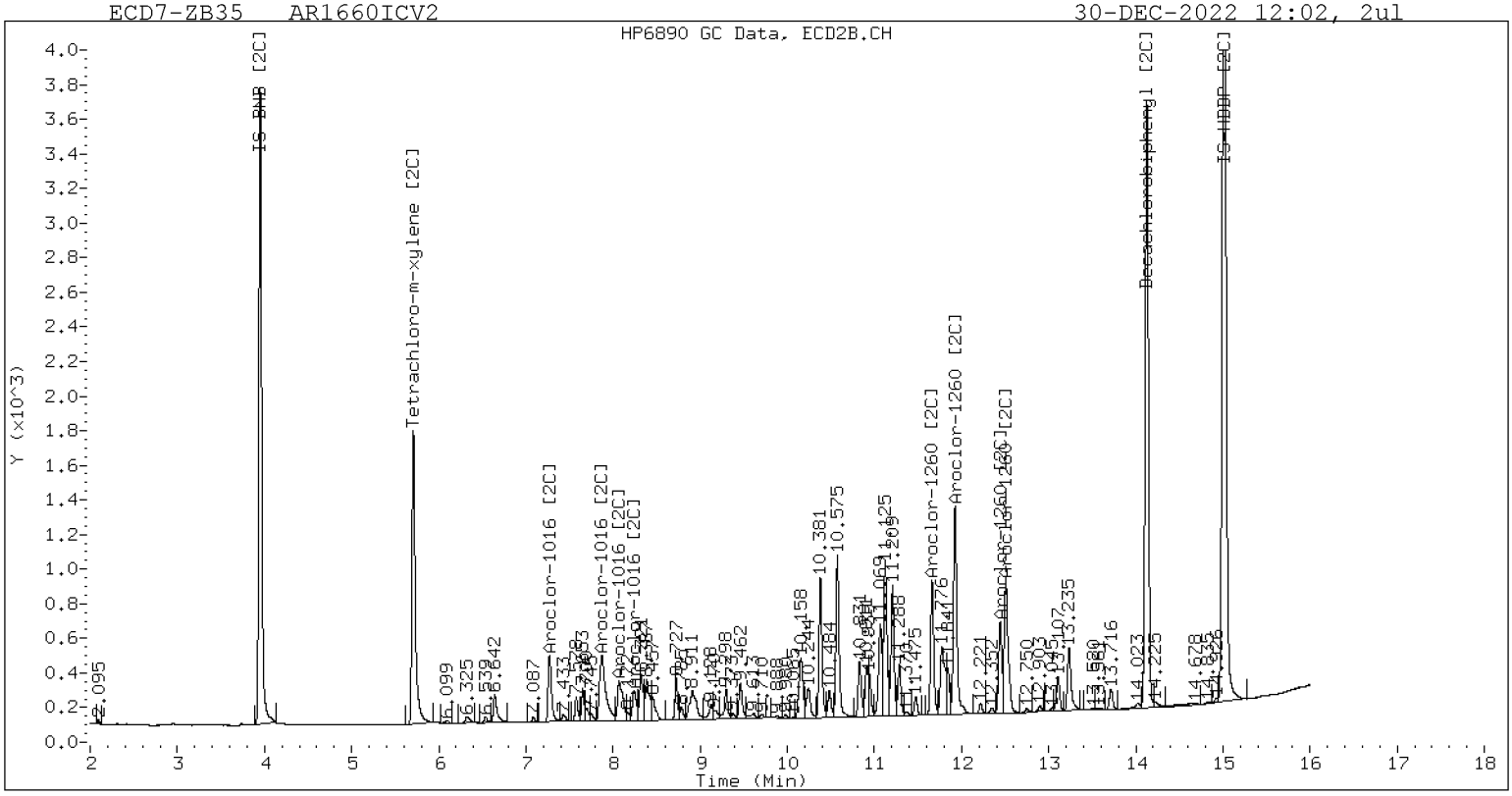
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 30-DEC-2022 12:02, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 30-DEC-2022 12:02, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312202ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	12/31/22
Lab Sample ID:	SLA0071-ICV1	Injection Time:	10:31
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	281	0.0576965	0.0653019		12.3	+/-20
Aroclor-1254 (1)	A	250.00	253	0.0704377	0.0714223			
Aroclor-1254 (2)	A	250.00	284	0.0273935	0.0310931			
Aroclor-1254 (3)	A	250.00	254	0.0444885	0.0452950			
Aroclor-1254 (4)	A	250.00	301	0.0867185	0.1045176			
Aroclor-1254 (5)	A	250.00	312	0.0594444	0.0741814			
Aroclor 1254 [2C]	A	250.00	250	0.0638047	0.0658751		0.0	+/-20
Aroclor-1254 (1) [2C]	A	250.00	262	0.0515798	0.0541379			
Aroclor-1254 (2) [2C]	A	250.00	160	0.0414689	0.0265953			
Aroclor-1254 (3) [2C]	A	250.00	243	0.0891370	0.0868095			
Aroclor-1254 (4) [2C]	A	250.00	300	0.0923140	0.1109884			
Aroclor-1254 (5) [2C]	A	250.00	285	0.0445236	0.0508444			
Decachlorobiphenyl	A	40.000	47.0	0.7333327	0.8609640		17.5	+/-20
Tetrachlorometaxylene	A	40.000	36.7	1.1336710	1.0391730		-8.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.0	1.1358180	1.1938410		5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.2	1.0966080	0.9936501		-9.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312202ECD7.D
Data file 2: /221231.b/221231.b/12312202ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 31-DEC-2022 10:31
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	178796	5.707	-0.003	113293	36.7	36.2	1.2	Tetrachloro-m-xylene
13.905	0.004	291237	14.128	-0.001	204160	47.0	42.0	11.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	344112	-23.1
Hexabromobiphenyl	798898	676537	-15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	228034	-8.5
Hexabromobiphenyl	362541	342022	-5.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.312	-0.009	76804	253.5	1	9.459	-0.002	38579	262.4
Aroclor-1254	2	9.389	-0.013	33436	283.8	2	9.977	-0.002	18952	160.3
Aroclor-1254	3	9.681	-0.014	48708	254.5	3	10.127	-0.003	61861	243.5
Aroclor-1254	4	9.816	-0.015	112393	301.3	4	10.375	-0.003	79091	300.6
Aroclor-1254	5	10.172	-0.018	79771	312.0	5	10.574	-0.002	36232	285.5
Total Col1Ave (5 peaks):					281.0	Total Col2Ave (5 peaks):				250.5 RPD = 12
Corrected Ave (4 peaks):					273.3	Corrected Ave (4 peaks):				237.9 RPD = 14
CalAmt %D:					12.4	CalAmt %D:				0.2

Total PCB Area Col1 (5.932 - 13.801) = 1184760 Col1 Total PCB = 0.4 ppm*

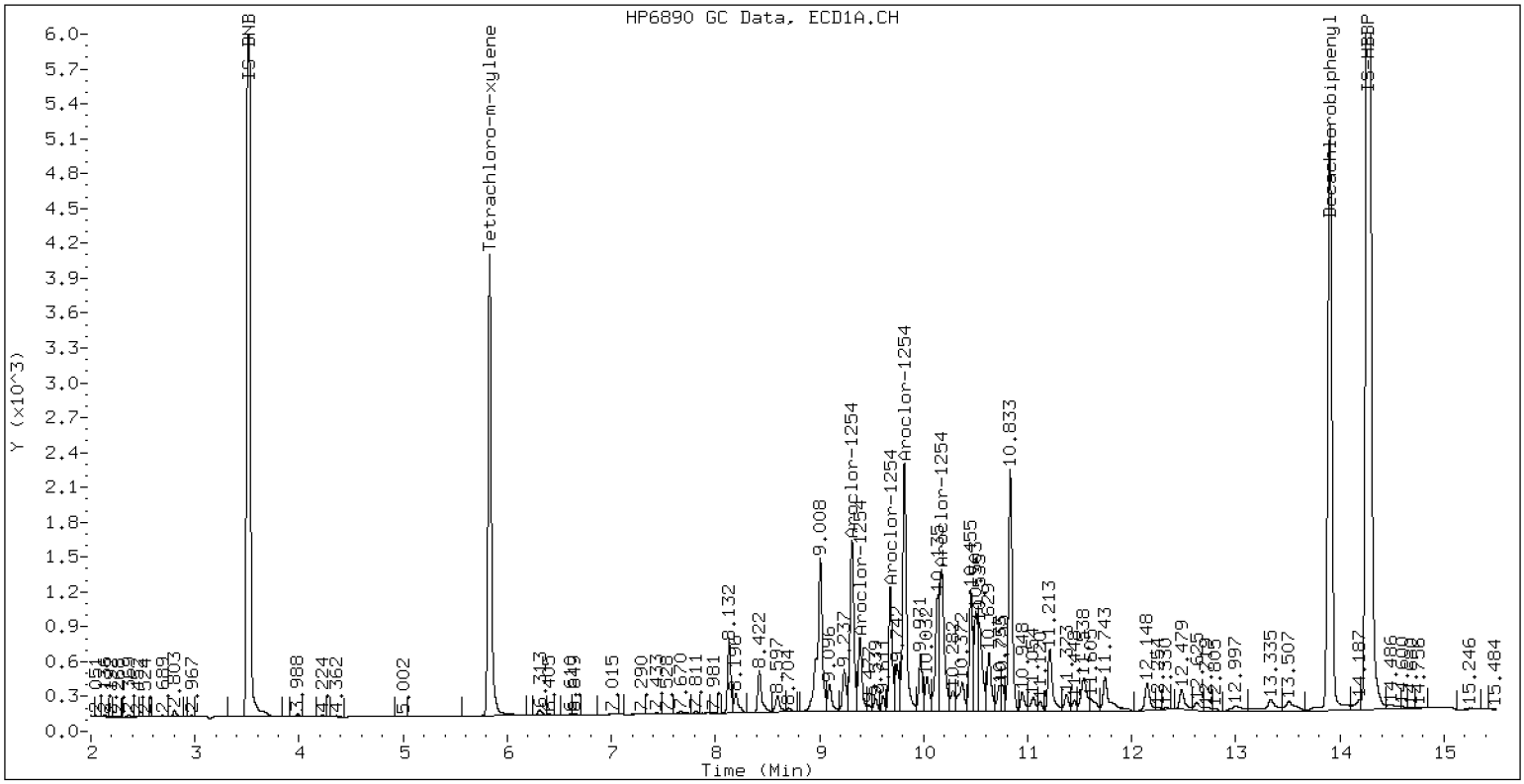
Total PCB Area Col2 (5.810 - 14.030) = 666364 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

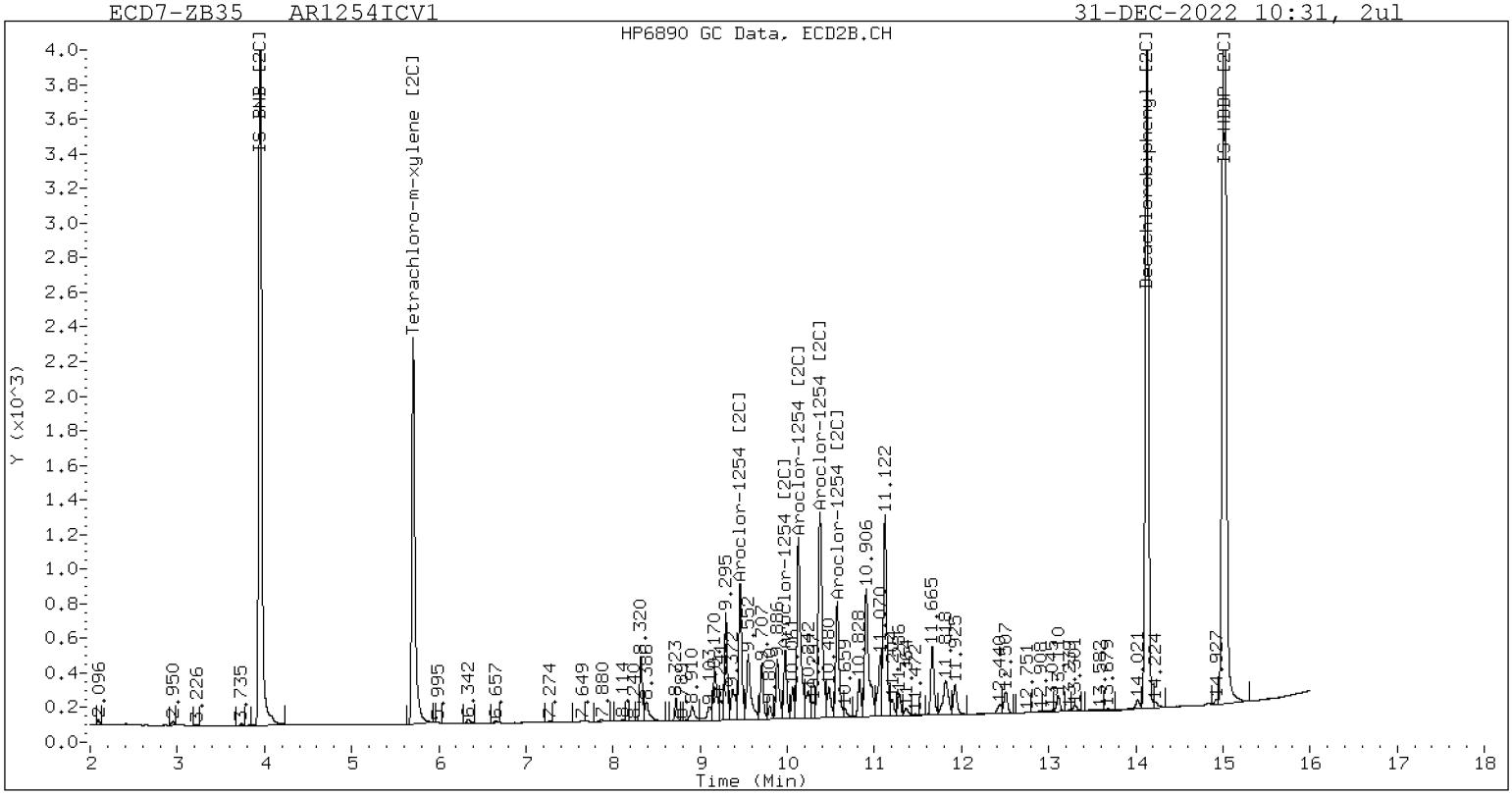
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 31-DEC-2022 10:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 31-DEC-2022 10:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312203ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	12/31/22
Lab Sample ID:	SLA0071-ICV2	Injection Time:	10:52
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	267	0.0441939	0.0470166		6.8	+/-20
Aroclor-1016 (1)	A	250.00	264	0.0266860	0.0281666		5.6	
Aroclor-1016 (2)	A	250.00	264	0.0861572	0.0909368		5.6	
Aroclor-1016 (3)	A	250.00	267	0.0390425	0.0417423		6.8	
Aroclor-1016 (4)	A	250.00	273	0.0248899	0.0272208		9.2	
Aroclor 1016 [2C]	A	250.00	244	0.0467310	0.0431166		-2.4	+/-20
Aroclor-1016 (1) [2C]	A	250.00	252	0.0409030	0.0411704		0.8	
Aroclor-1016 (2) [2C]	A	250.00	204	0.0882154	0.0719315		-18.4	
Aroclor-1016 (3) [2C]	A	250.00	249	0.0378846	0.0377886		-0.4	
Aroclor-1016 (4) [2C]	A	250.00	271	0.0199212	0.0215760		8.4	
Aroclor 1260	A	250.00	290	0.0390342	0.0449913		15.8	+/-20
Aroclor-1260 (1)	A	250.00	292	0.0291201	0.0340518		16.8	
Aroclor-1260 (2)	A	250.00	290	0.0301181	0.0349566		16.0	
Aroclor-1260 (3)	A	250.00	287	0.0791351	0.0909118		14.8	
Aroclor-1260 (4)	A	250.00	281	0.0403003	0.0453680		12.4	
Aroclor-1260 (5)	A	250.00	298	0.0164974	0.0196682		19.2	
Aroclor 1260 [2C]	A	250.00	221	0.0617619	0.0498951		-11.7	+/-20
Aroclor-1260 (1) [2C]	A	250.00	261	0.0422283	0.0441162		4.4	
Aroclor-1260 (2) [2C]	A	250.00	172	0.1059643	0.0730410		-31.2	
Aroclor-1260 (3) [2C]	A	250.00	263	0.0282173	0.0296448		5.2	
Aroclor-1260 (4) [2C]	A	250.00	187	0.0706376	0.0527784		-25.2	
Decachlorobiphenyl	A	40.000	46.0	0.7333327	0.8426970		15.0	+/-20
Tetrachlorometaxylene	A	40.000	39.6	1.1336710	1.1215610		-1.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1784730		3.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1040010		0.8	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312203ECD7.D
Data file 2: /221231.b/221231.b/12312203ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 31-DEC-2022 10:52
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.000	139640	5.708	-0.002	92348	39.6	40.3	1.7	Tetrachloro-m-xylene
13.903	0.002	233197	14.129	-0.001	165761	46.0	41.5	10.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	249010	-44.4
Hexabromobiphenyl	798898	553454	-30.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	167297	-32.8
Hexabromobiphenyl	362541	281315	-22.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.006	21918	263.9	1	7.272	-0.001	21524	251.6
Aroclor-1016	2	7.674	-0.010	70763	263.9	2	7.871	-0.004	37606	203.9
Aroclor-1016	3	7.810	-0.008	32482	267.3	3	8.069	-0.003	19756	249.4
Aroclor-1016	4	8.421	-0.008	21182	273.4	4	8.240	-0.004	11280	270.8
	Total Col1Ave (4 peaks):				267.1		Total Col2Ave (4 peaks):			243.9 RPD = 9
	Corrected Ave (3 peaks):				265.0		Corrected Ave (3 peaks):			235.0 RPD = 12
			CalAmt %D:		6.8			CalAmt %D:		-2.4
Aroclor-1260	1	11.055	-0.007	58894	292.3	1	11.662	-0.001	38783	261.2
Aroclor-1260	2	11.372	-0.005	60459	290.2	2	11.925	-0.001	64211	172.3
Aroclor-1260	3	11.744	-0.008	157236	287.2	3	12.443	-0.002	26061	262.6
Aroclor-1260	4	12.147	-0.012	78466	281.4	4	12.508	-0.002	46398	186.8
Aroclor-1260	5	12.255	-0.006	34017	298.1	NS	---			----
	Total Col1Ave (5 peaks):				289.8		Total Col2Ave (4 peaks):			220.7 RPD = 27
	Corrected Ave (4 peaks):				287.8		Corrected Ave (3 peaks):			206.8 RPD = 33
			CalAmt %D:		15.9			CalAmt %D:		-11.7

Total PCB Area Col1 (5.932 - 13.801) = 1563391 Col1 Total PCB = 0.7 ppm*

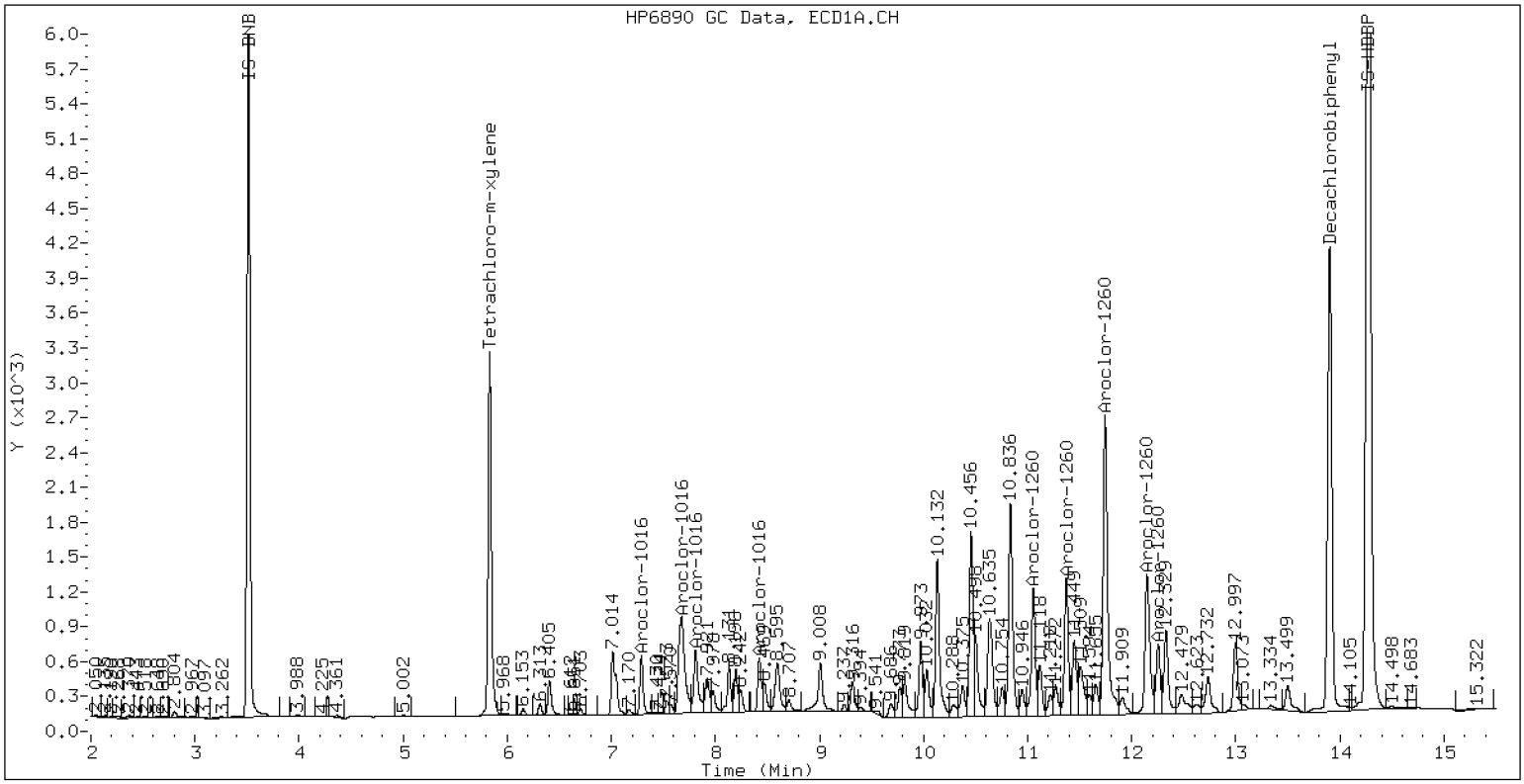
Total PCB Area Col2 (5.810 - 14.030) = 809463 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

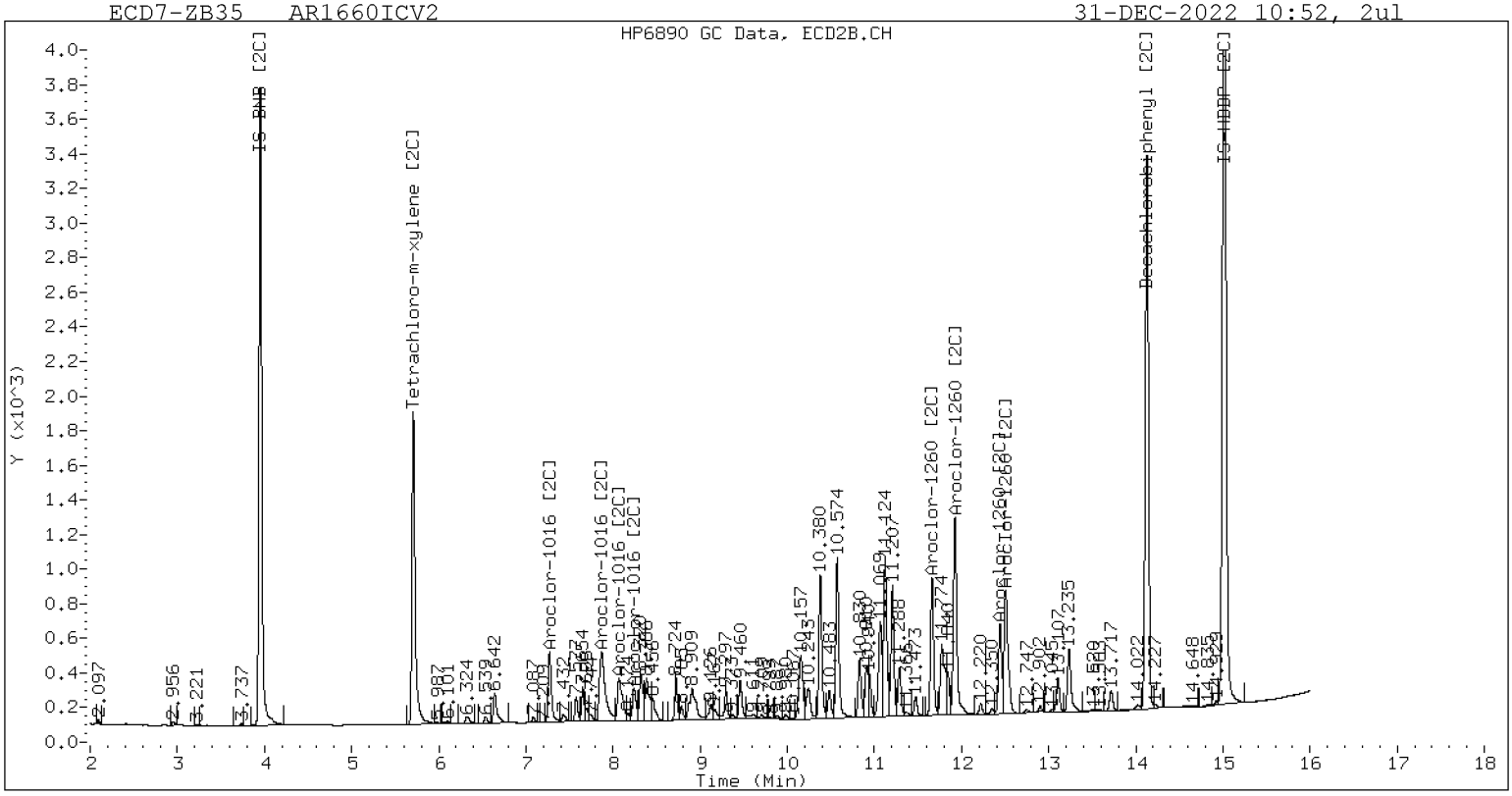
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 31-DEC-2022 10:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 31-DEC-2022 10:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032302ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-ICV1	Injection Time:	07:15
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Aroclor 1254	A	250.00	298	0.0576965	0.0689945		19.1	+/-20	
Aroclor-1254 (1)	A	250.00	261	0.0704377	0.0736720				
Aroclor-1254 (2)	A	250.00	302	0.0273935	0.0330767				
Aroclor-1254 (3)	A	250.00	275	0.0444885	0.0489751				
Aroclor-1254 (4)	A	250.00	316	0.0867185	0.1096457				
Aroclor-1254 (5)	A	250.00	335	0.0594444	0.0796029				
Aroclor 1254 [2C]	A	250.00	253	0.0638047	0.0671879		1.1	+/-20	
Aroclor-1254 (1) [2C]	A	250.00	273	0.0515798	0.0564102				
Aroclor-1254 (2) [2C]	A	250.00	147	0.0414689	0.0244517				
Aroclor-1254 (3) [2C]	A	250.00	255	0.0891370	0.0910363				
Aroclor-1254 (4) [2C]	A	250.00	310	0.0923140	0.1143717				
Aroclor-1254 (5) [2C]	A	250.00	279	0.0445236	0.0496696				
Decachlorobiphenyl	A	40.000	48.7	0.7333327	0.8934248		21.8	+/-20	*
Tetrachlorometaxylene	A	40.000	39.3	1.1336710	1.1138250		-1.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.8	1.1358180	1.1871690		4.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	38.5	1.0966080	1.0565620		-3.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032302ECD7.D
Data file 2: /230103.b/230103.b/01032302ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 03-JAN-2023 07:15
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	187680	5.706	-0.002	123567	39.3	38.5	2.0	Tetrachloro-m-xylene
13.904	0.001	329764	14.128	-0.001	232697	48.7	41.8	15.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	337001	-24.7
Hexabromobiphenyl	798898	738202	-7.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	233904	-6.1
Hexabromobiphenyl	362541	392020	8.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.311	-0.003	77586	261.5	1	9.457	-0.005	41233	273.4
Aroclor-1254	2	9.388	-0.005	34834	301.9	2	9.976	-0.002	17873	147.4
Aroclor-1254	3	9.680	-0.007	51577	275.2	3	10.126	-0.003	66543	255.3
Aroclor-1254	4	9.814	-0.006	115471	316.1	4	10.374	-0.005	83600	309.7
Aroclor-1254	5	10.166	-0.010	83832	334.8	5	10.572	-0.004	36306	278.9
Total Col1Ave (5 peaks):					297.9	Total Col2Ave (5 peaks):				253.0 RPD = 16
Corrected Ave (4 peaks):					288.7	Corrected Ave (4 peaks):				238.8 RPD = 19
CalAmt %D:					19.2	CalAmt %D:				1.2

Total PCB Area Col1 (5.932 - 13.803) = 1284705 Col1 Total PCB = 0.4 ppm*

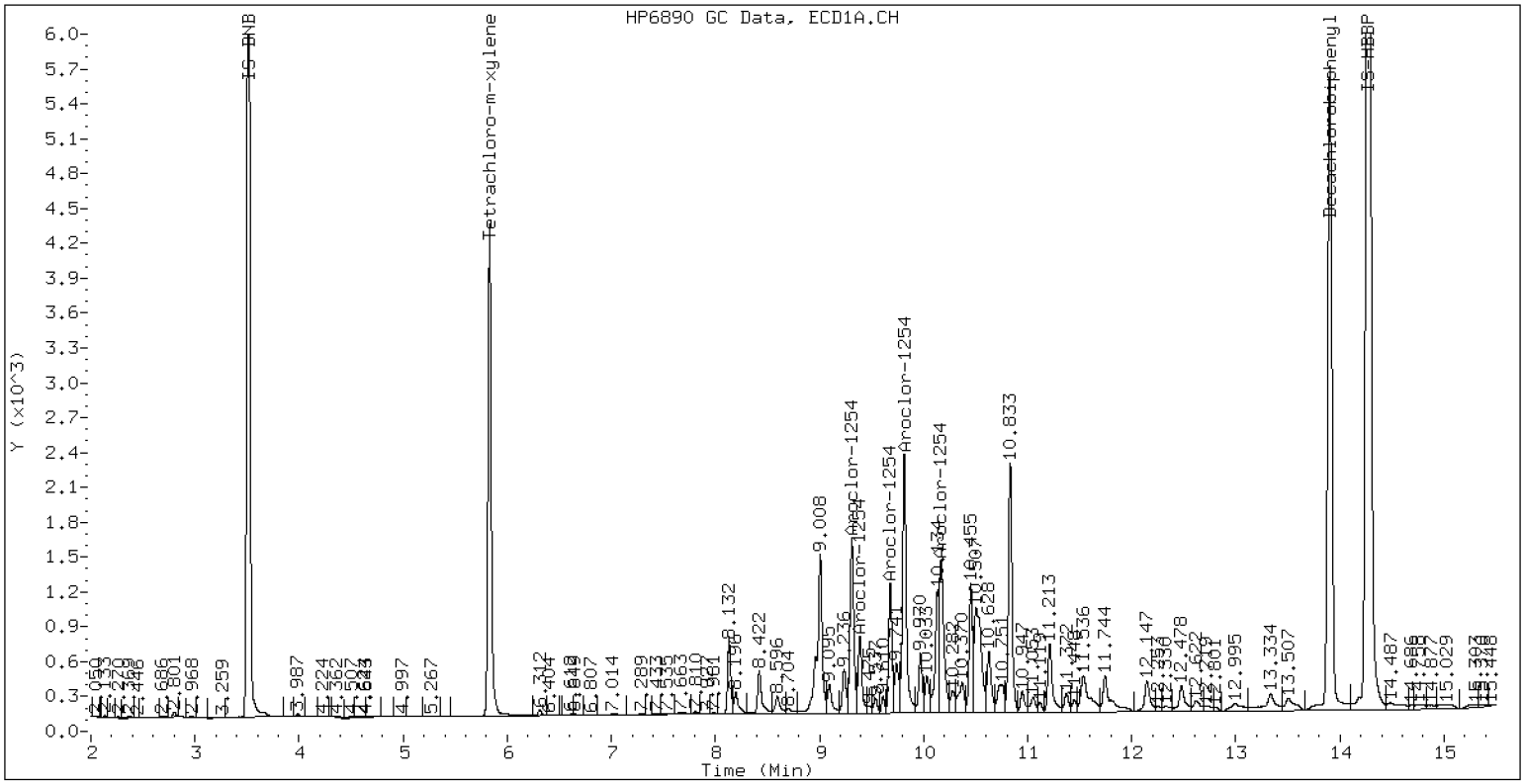
Total PCB Area Col2 (5.808 - 14.029) = 696798 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

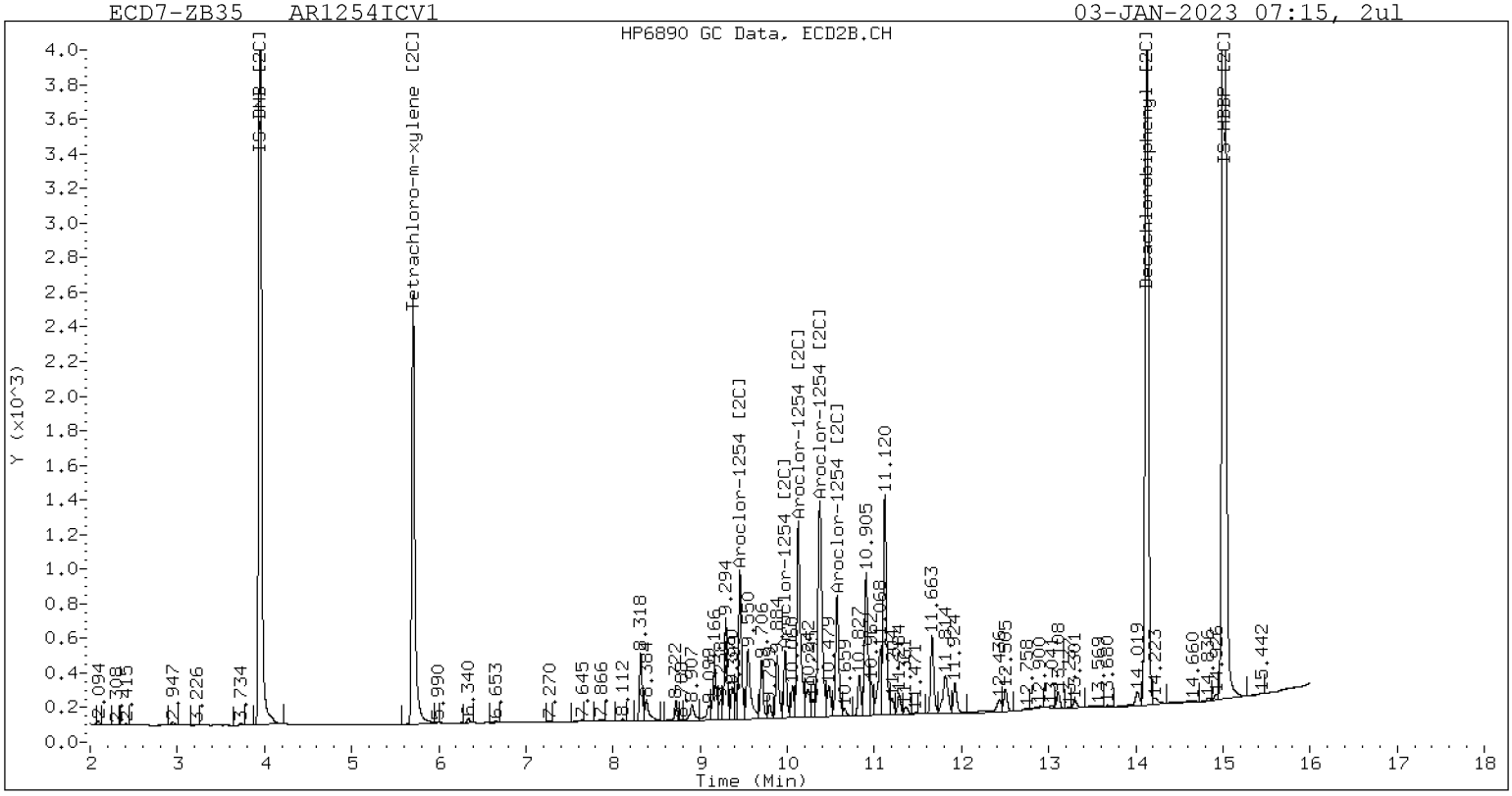
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 03-JAN-2023 07:15, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254ICV1 03-JAN-2023 07:15, 2ul

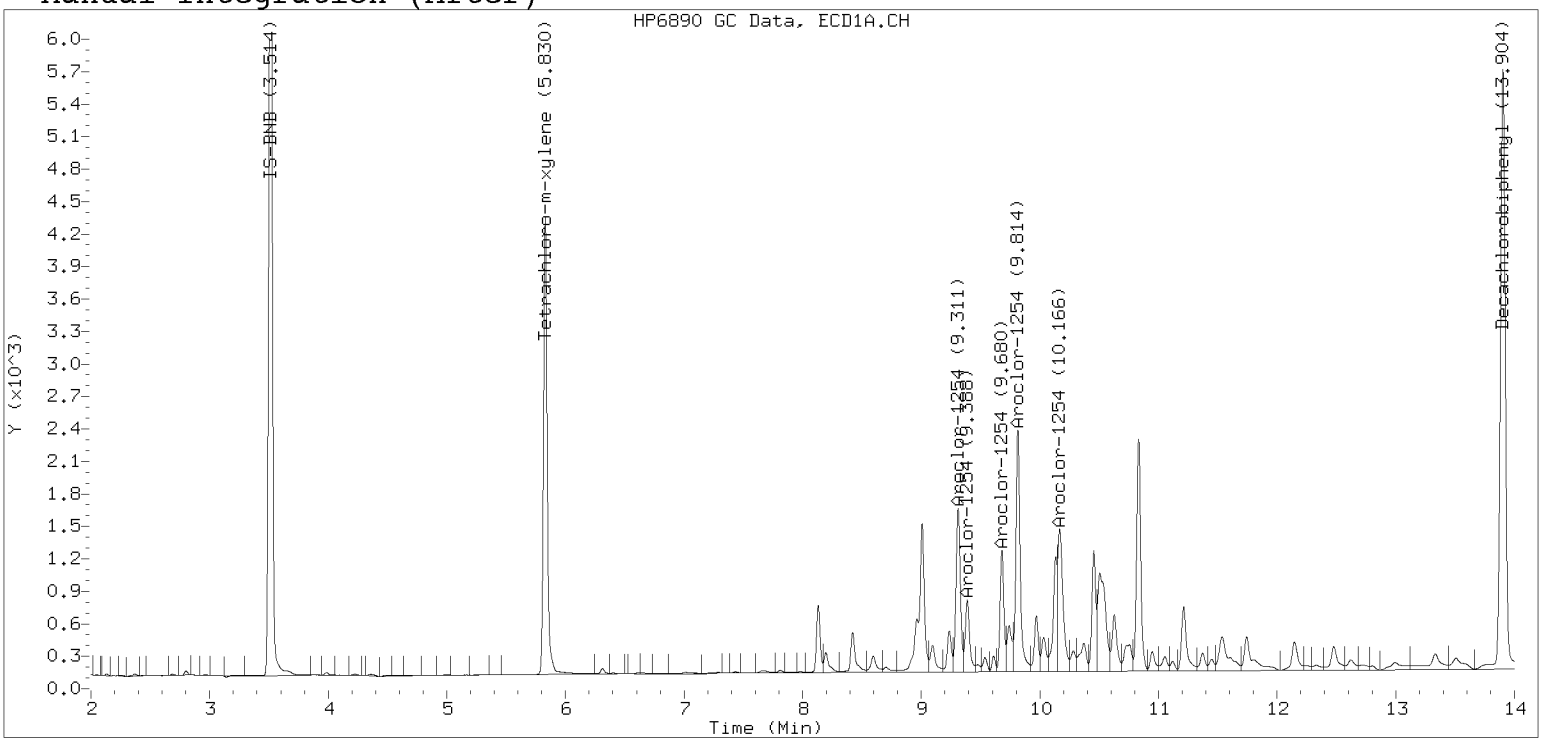


ZB-35 Manual Integration: NO

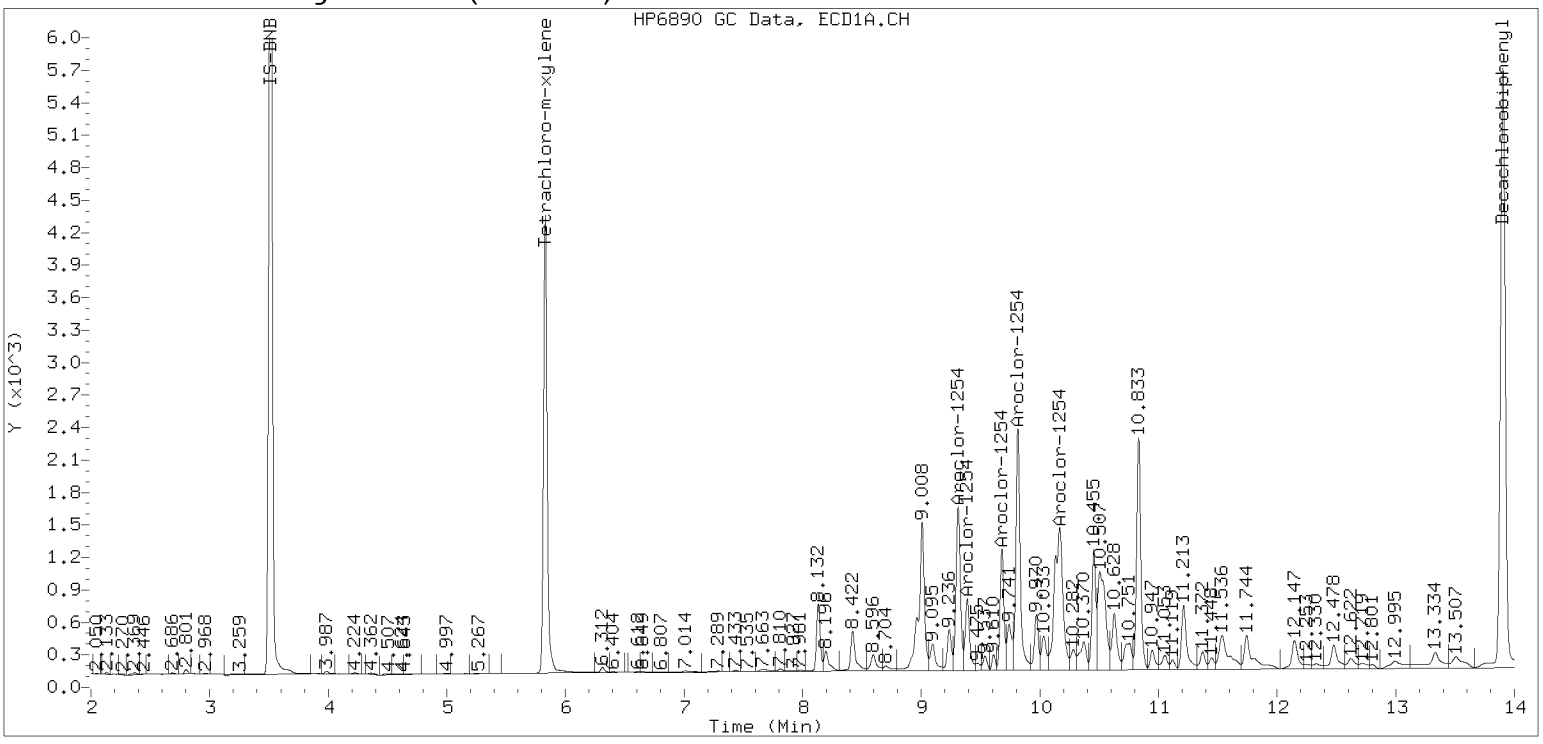
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032302ECD7.D Injection Date: 03-JAN-2023 07:15

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032303ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-ICV2	Injection Time:	07:36
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	273	0.0441939	0.0481710		9.3	+/-20
Aroclor-1016 (1)	A	250.00	278	0.0266860	0.0296374		11.2	
Aroclor-1016 (2)	A	250.00	275	0.0861572	0.0947116		10.0	
Aroclor-1016 (3)	A	250.00	257	0.0390425	0.0401854		2.8	
Aroclor-1016 (4)	A	250.00	283	0.0248899	0.0281496		13.2	
Aroclor 1016 [2C]	A	250.00	257	0.0467310	0.0454086		2.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	266	0.0409030	0.0436077		6.4	
Aroclor-1016 (2) [2C]	A	250.00	214	0.0882154	0.0754932		-14.4	
Aroclor-1016 (3) [2C]	A	250.00	261	0.0378846	0.0395488		4.4	
Aroclor-1016 (4) [2C]	A	250.00	288	0.0199212	0.0229846		15.2	
Aroclor 1260	A	250.00	280	0.0390342	0.0434221		11.9	+/-20
Aroclor-1260 (1)	A	250.00	278	0.0291201	0.0324280		11.2	
Aroclor-1260 (2)	A	250.00	279	0.0301181	0.0335990		11.6	
Aroclor-1260 (3)	A	250.00	277	0.0791351	0.0875943		10.8	
Aroclor-1260 (4)	A	250.00	275	0.0403003	0.0443493		10.0	
Aroclor-1260 (5)	A	250.00	290	0.0164974	0.0191401		16.0	
Aroclor 1260 [2C]	A	250.00	201	0.0617619	0.0441614		-19.8	+/-20
Aroclor-1260 (1) [2C]	A	250.00	250	0.0422283	0.0423277		0.0	
Aroclor-1260 (2) [2C]	A	250.00	142	0.1059643	0.0603257		-43.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0280554		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	162	0.0706376	0.0459368		-35.2	
Decachlorobiphenyl	A	40.000	46.8	0.7333327	0.8581875		17.0	+/-20
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1663930		3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.6	1.1358180	1.1822340		4.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.3	1.0966080	1.1320960		3.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032303ECD7.D
Data file 2: /230103.b/230103.b/01032303ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 03-JAN-2023 07:36
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	151150	5.707	-0.001	102016	41.2	41.3	0.3	Tetrachloro-m-xylene
13.900	-0.003	273909	14.127	-0.002	199531	46.8	41.6	11.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	259175	-42.1
Hexabromobiphenyl	798898	638343	-20.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	180225	-27.6
Hexabromobiphenyl	362541	337549	-6.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.007	24004	277.6	1	7.270	-0.001	24560	266.5
Aroclor-1016	2	7.671	-0.013	76709	274.8	2	7.869	-0.003	42518	213.9
Aroclor-1016	3	7.808	-0.010	32547	257.3	3	8.067	-0.004	22274	261.0
Aroclor-1016	4	8.419	-0.010	22799	282.7	4	8.237	-0.004	12945	288.4
Total Col1Ave (4 peaks):					273.1	Total Col2Ave (4 peaks):				257.5 RPD = 6
Corrected Ave (3 peaks):					269.9	Corrected Ave (3 peaks):				247.2 RPD = 9
CalAmt %D:					9.3	CalAmt %D:				3.0
Aroclor-1260	1	11.053	-0.009	64688	278.4	1	11.660	-0.003	44649	250.6
Aroclor-1260	2	11.370	-0.007	67024	278.9	2	11.922	-0.004	63634	142.3
Aroclor-1260	3	11.743	-0.009	174735	276.7	3	12.441	-0.003	29594	248.6
Aroclor-1260	4	12.145	-0.013	88469	275.1	4	12.506	-0.003	48456	162.6
Aroclor-1260	5	12.253	-0.008	38181	290.0	NS	---			----
Total Col1Ave (5 peaks):					279.8	Total Col2Ave (4 peaks):				201.0 RPD = 33
Corrected Ave (4 peaks):					277.3	Corrected Ave (3 peaks):				184.5 RPD = 40*
CalAmt %D:					11.9	CalAmt %D:				-19.6

Total PCB Area Col1 (5.932 - 13.803) = 1711502 Col1 Total PCB = 0.7 ppm*

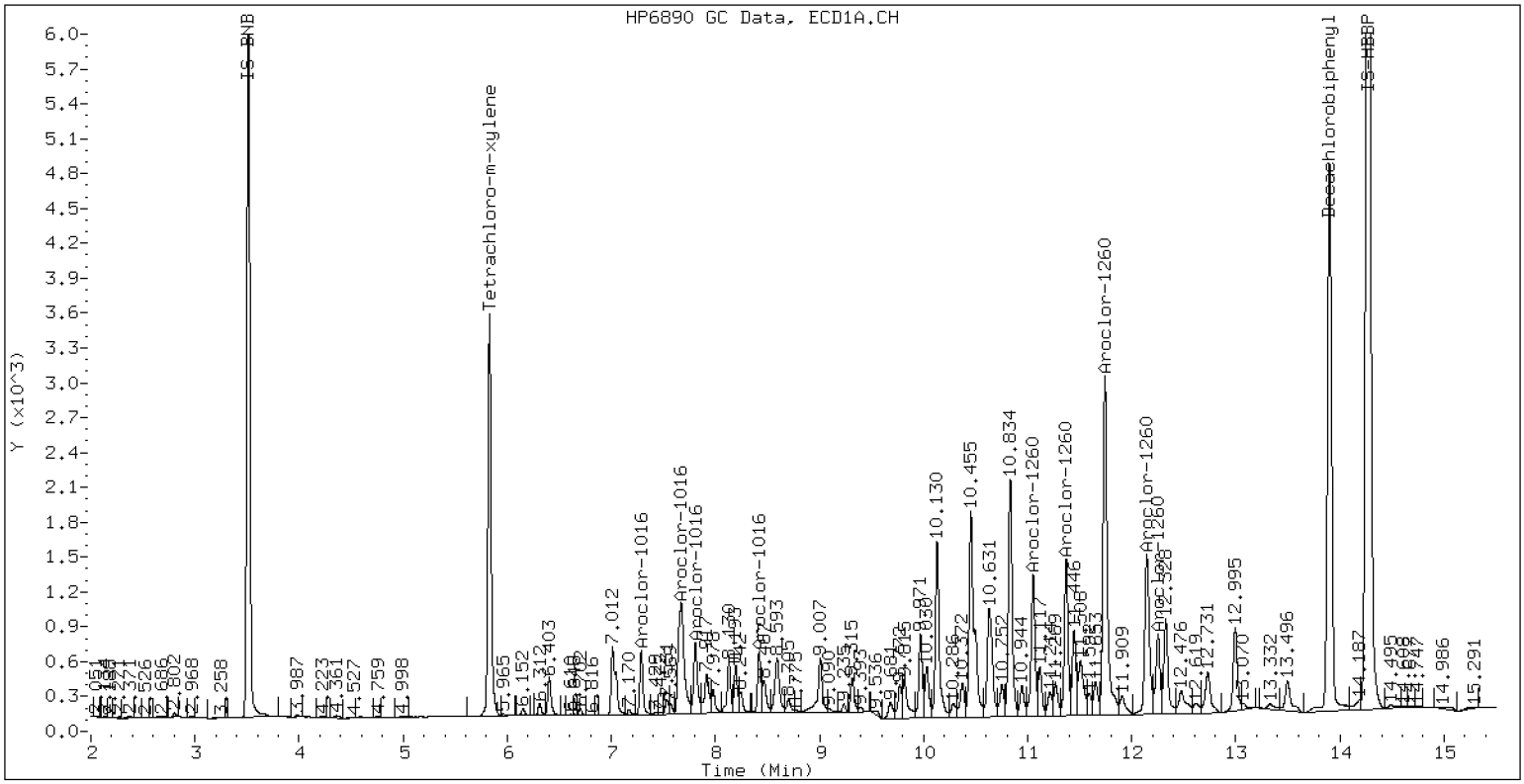
Total PCB Area Col2 (5.808 - 14.029) = 904180 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

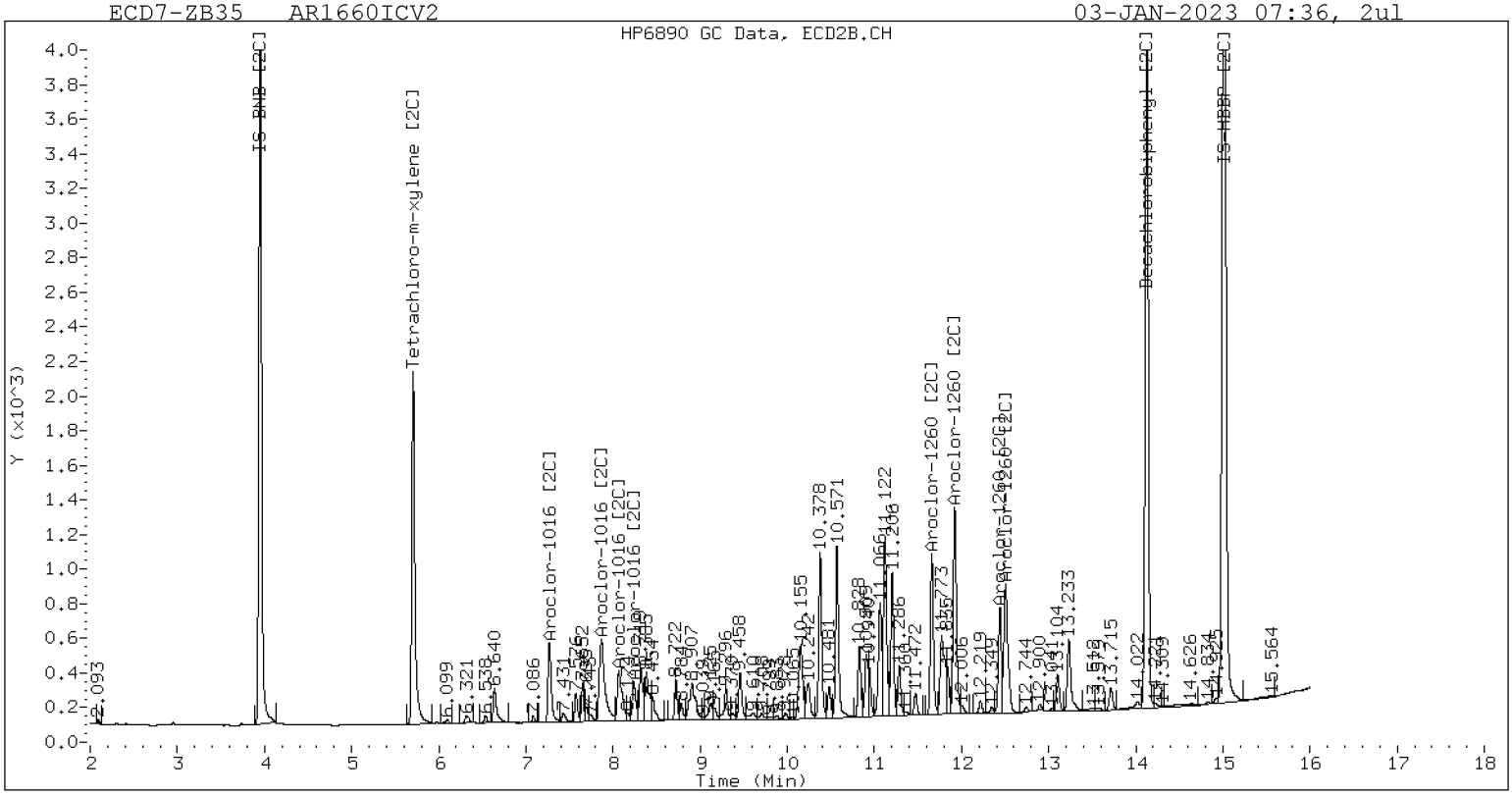
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 03-JAN-2023 07:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 03-JAN-2023 07:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042302ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-ICV1	Injection Time:	09:44
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	280	0.0576965	0.0652431		12.0	+/-20
Aroclor-1254 (1)	A	250.00	251	0.0704377	0.0707981			
Aroclor-1254 (2)	A	250.00	288	0.0273935	0.0315038			
Aroclor-1254 (3)	A	250.00	241	0.0444885	0.0429596			
Aroclor-1254 (4)	A	250.00	308	0.0867185	0.1066710			
Aroclor-1254 (5)	A	250.00	312	0.0594444	0.0742831			
Aroclor 1254 [2C]	A	250.00	249	0.0638047	0.0654817		-0.3	+/-20
Aroclor-1254 (1) [2C]	A	250.00	259	0.0515798	0.0533985			
Aroclor-1254 (2) [2C]	A	250.00	152	0.0414689	0.0252486			
Aroclor-1254 (3) [2C]	A	250.00	235	0.0891370	0.0839134			
Aroclor-1254 (4) [2C]	A	250.00	304	0.0923140	0.1121807			
Aroclor-1254 (5) [2C]	A	250.00	296	0.0445236	0.0526673			
Decachlorobiphenyl	A	40.000	45.9	0.7333327	0.8418839		14.8	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0535180		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1702320		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.0	1.0966080	1.0144400		-7.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042302ECD7.D
Data file 2: /230104.b/230104.b/01042302ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 04-JAN-2023 09:44
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	180367	5.708	0.001	117429	37.2	37.0	0.5	Tetrachloro-m-xylene
13.906	0.004	321044	14.129	0.001	228799	45.9	41.2	10.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	342409	-23.5
Hexabromobiphenyl	798898	762680	-4.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	231515	-7.1
Hexabromobiphenyl	362541	391032	7.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.313	-0.008	75756	251.3	1	9.460	0.000	38633	258.8
Aroclor-1254	2	9.392	-0.010	33710	287.5	2	9.978	-0.000	18267	152.2
Aroclor-1254	3	9.684	-0.010	45968	241.4	3	10.129	0.000	60710	235.3
Aroclor-1254	4	9.819	-0.012	114141	307.5	4	10.377	0.000	81161	303.8
Aroclor-1254	5	10.175	-0.015	79485	312.4	5	10.575	-0.000	38104	295.7
Total Col1Ave (5 peaks):					280.0	Total Col2Ave (5 peaks):				249.2 RPD = 12
Corrected Ave (4 peaks):					271.9	Corrected Ave (4 peaks):				235.5 RPD = 14
CalAmt %D:					12.0	CalAmt %D:				-0.3

Total PCB Area Col1 (5.930 - 13.802) = 1185218 Col1 Total PCB = 0.4 ppm*

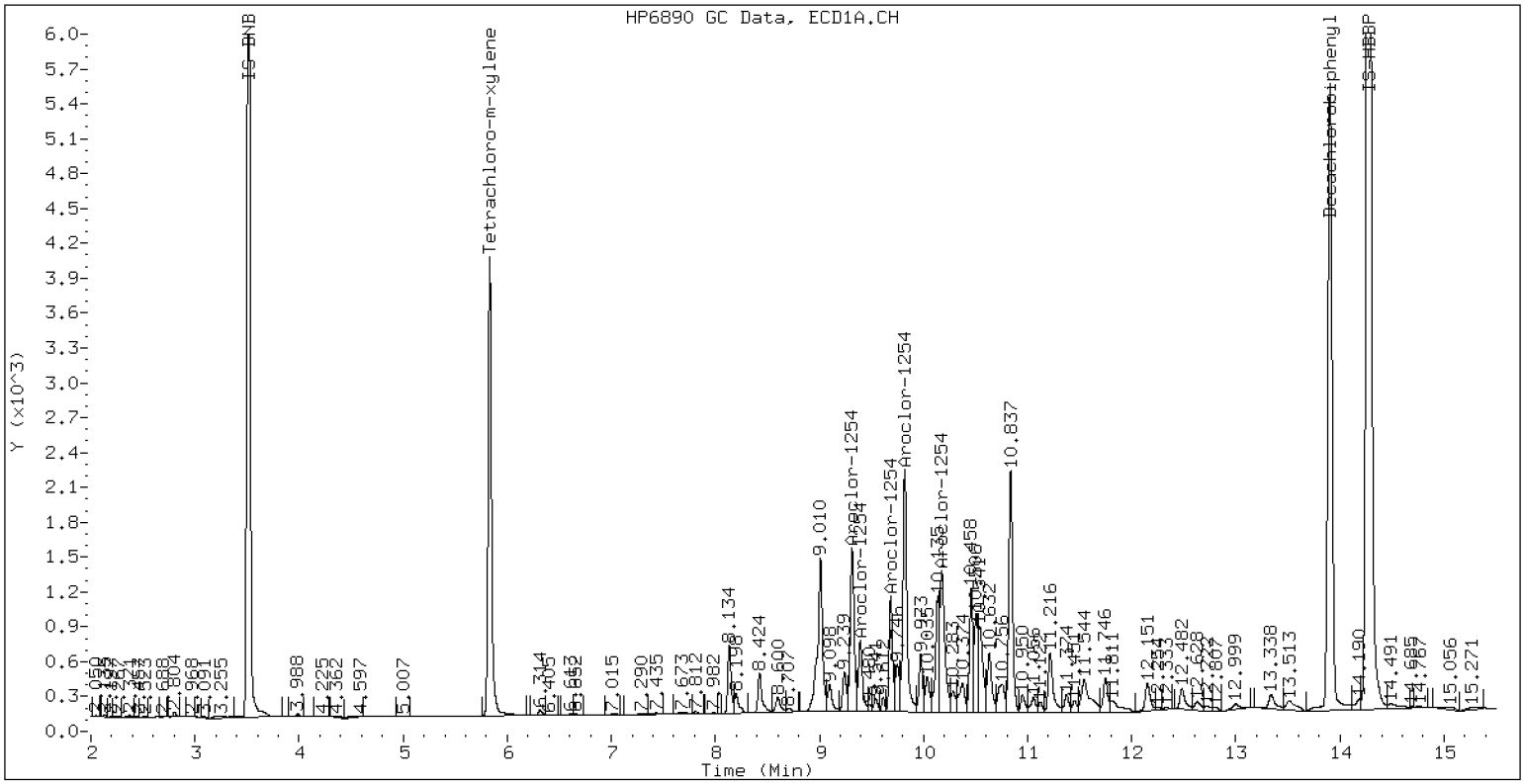
Total PCB Area Col2 (5.807 - 14.028) = 687186 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

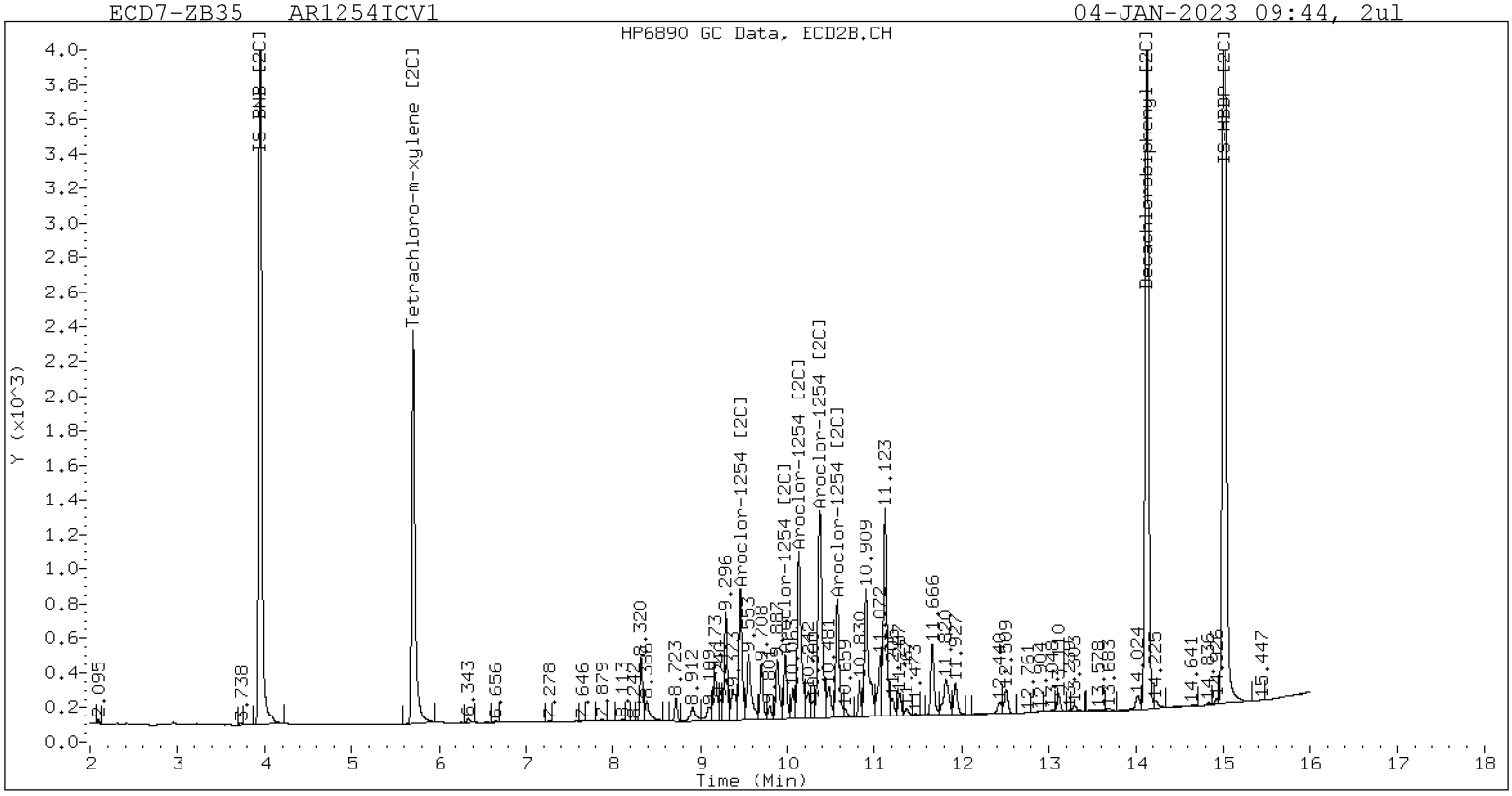
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 04-JAN-2023 09:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 04-JAN-2023 09:44, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042303ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-ICV2	Injection Time:	10:05
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Aroclor 1016	A	250.00	325	0.0441939	0.0551597		30.0	+/-20	*
Aroclor-1016 (1)	A	250.00	329	0.0266860	0.0351546		31.6		
Aroclor-1016 (2)	A	250.00	289	0.0861572	0.0997044		15.6		
Aroclor-1016 (3)	A	250.00	315	0.0390425	0.0492172		26.0		
Aroclor-1016 (4)	A	250.00	367	0.0248899	0.0365628		46.8		
Aroclor 1016 [2C]	A	250.00	246	0.0467310	0.0432495		-1.8	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	255	0.0409030	0.0417488		2.0		
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0714520		-19.2		
Aroclor-1016 (3) [2C]	A	250.00	251	0.0378846	0.0379780		0.4		
Aroclor-1016 (4) [2C]	A	250.00	274	0.0199212	0.0218190		9.6		
Aroclor 1260	A	250.00	266	0.0390342	0.0411129		6.2	+/-20	
Aroclor-1260 (1)	A	250.00	266	0.0291201	0.0309703		6.4		
Aroclor-1260 (2)	A	250.00	264	0.0301181	0.0318360		5.6		
Aroclor-1260 (3)	A	250.00	261	0.0791351	0.0827749		4.4		
Aroclor-1260 (4)	A	250.00	257	0.0403003	0.0414802		2.8		
Aroclor-1260 (5)	A	250.00	280	0.0164974	0.0185029		12.0		
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0462727		-17.7	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	240	0.0422283	0.0405690		-4.0		
Aroclor-1260 (2) [2C]	A	250.00	158	0.1059643	0.0668881		-36.8		
Aroclor-1260 (3) [2C]	A	250.00	250	0.0282173	0.0281774		0.0		
Aroclor-1260 (4) [2C]	A	250.00	175	0.0706376	0.0494562		-30.0		
Decachlorobiphenyl	A	40.000	45.9	0.7333327	0.8416208		14.8	+/-20	
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1663760		3.0	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.2	1.1358180	1.1416330		0.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.0	1.0966080	1.0981040		0.0	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042303ECD7.D
Data file 2: /230104.b/230104.b/01042303ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 04-JAN-2023 10:05
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	144584	5.707	0.000	91790	41.2	40.1	2.7	Tetrachloro-m-xylene
13.903	0.002	263490	14.129	0.001	179100	45.9	40.2	13.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	247920	-44.6
Hexabromobiphenyl	798898	626149	-21.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	167179	-32.9
Hexabromobiphenyl	362541	313761	-13.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.001	27236	329.3	1	7.271	0.001	21811	255.2
Aroclor-1016	2	7.676	-0.001	77246	289.3	2	7.871	0.001	37329	202.5
Aroclor-1016	3	7.811	-0.001	38131	315.2	3	8.070	0.001	19841	250.6
Aroclor-1016	4	8.423	0.002	28327	367.2	4	8.241	0.001	11399	273.8
Total Col1Ave (4 peaks):					325.3	Total Col2Ave (4 peaks):				245.5 RPD = 28
Corrected Ave (3 peaks):					311.3	Corrected Ave (3 peaks):				236.1 RPD = 27
CalAmt %D:					30.1	CalAmt %D:				-1.8
Aroclor-1260	1	11.056	-0.000	60600	265.9	1	11.662	0.002	39778	240.2
Aroclor-1260	2	11.373	0.001	62294	264.3	2	11.925	0.001	65584	157.8
Aroclor-1260	3	11.746	0.000	161967	261.5	3	12.444	0.002	27628	249.6
Aroclor-1260	4	12.150	0.000	81165	257.3	4	12.509	0.003	48492	175.0
Aroclor-1260	5	12.256	0.002	36205	280.4	NS	---			----
Total Col1Ave (5 peaks):					265.9	Total Col2Ave (4 peaks):				205.7 RPD = 26
Corrected Ave (4 peaks):					262.2	Corrected Ave (3 peaks):				191.0 RPD = 31
CalAmt %D:					6.3	CalAmt %D:				-17.7

Total PCB Area Col1 (5.930 - 13.802) = 1810715 Col1 Total PCB = 0.8 ppm*

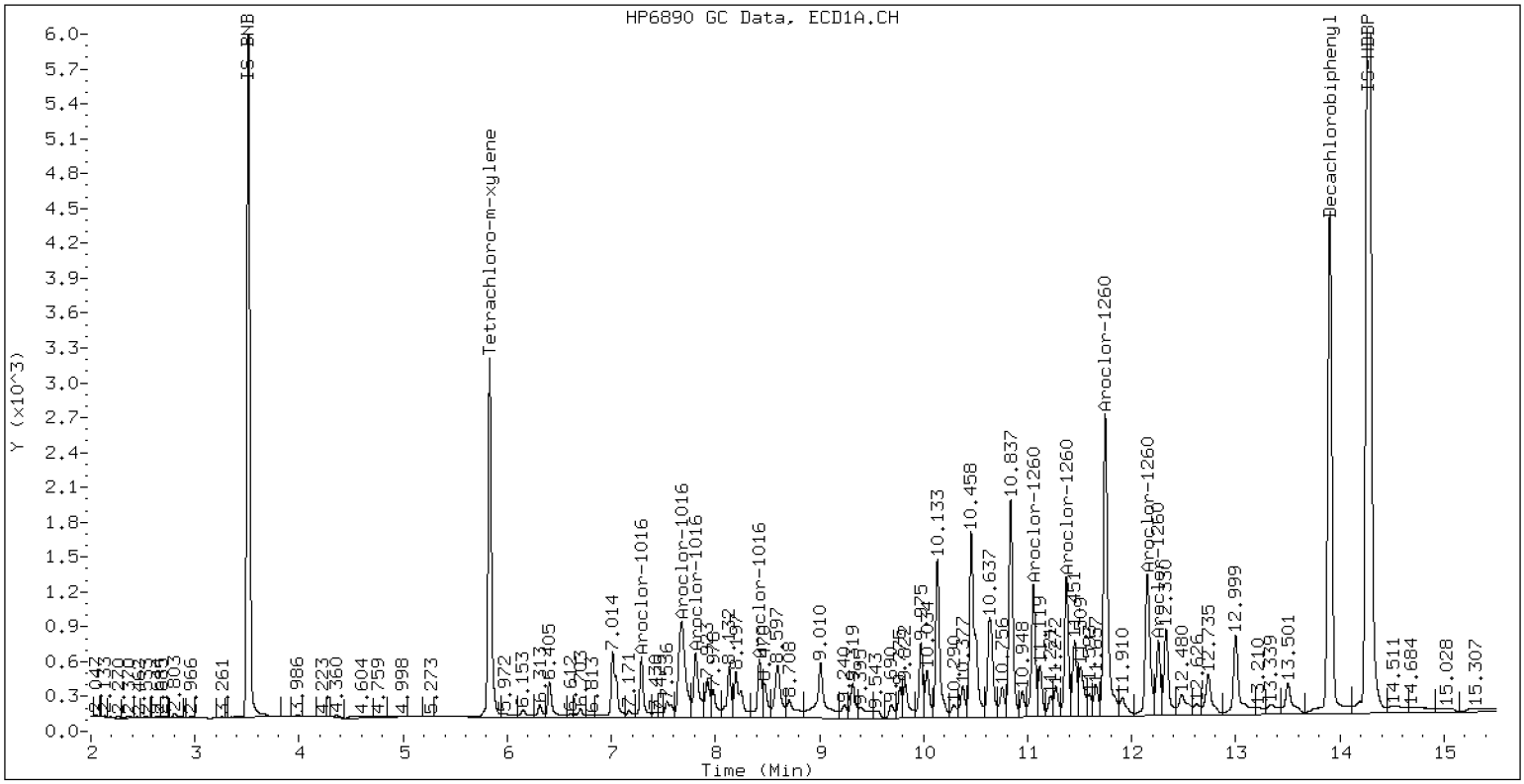
Total PCB Area Col2 (5.807 - 14.028) = 830140 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

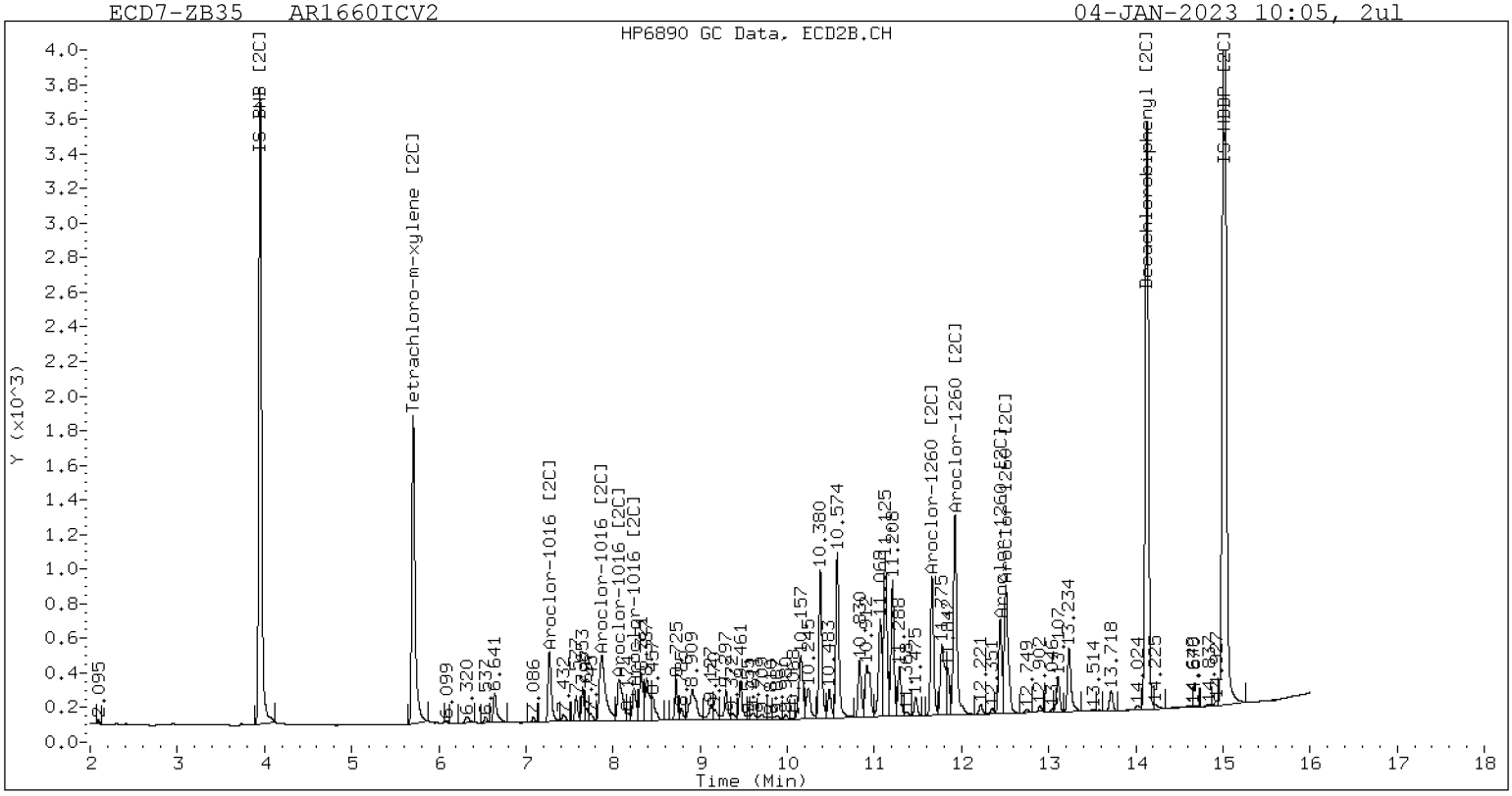
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 04-JAN-2023 10:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 04-JAN-2023 10:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032222ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV1	Injection Time:	22:13
Sequence Name:	AR1660SCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	223	0.0441939	0.0392295		-10.7	+/-20
Aroclor 1016 [2C]	A	250.00	216	0.0467310	0.0403426		-13.5	+/-20
Aroclor 1260	A	250.00	285	0.0390342	0.0441447		14.1	+/-20
Aroclor 1260 [2C]	A	250.00	263	0.0617619	0.0651122		5.1	+/-20
Decachlorobiphenyl	A	40.000	39.8	0.7333327	0.7297174		-0.5	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0237520		-9.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0840850		-4.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.1	1.0966080	0.9886519		-9.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

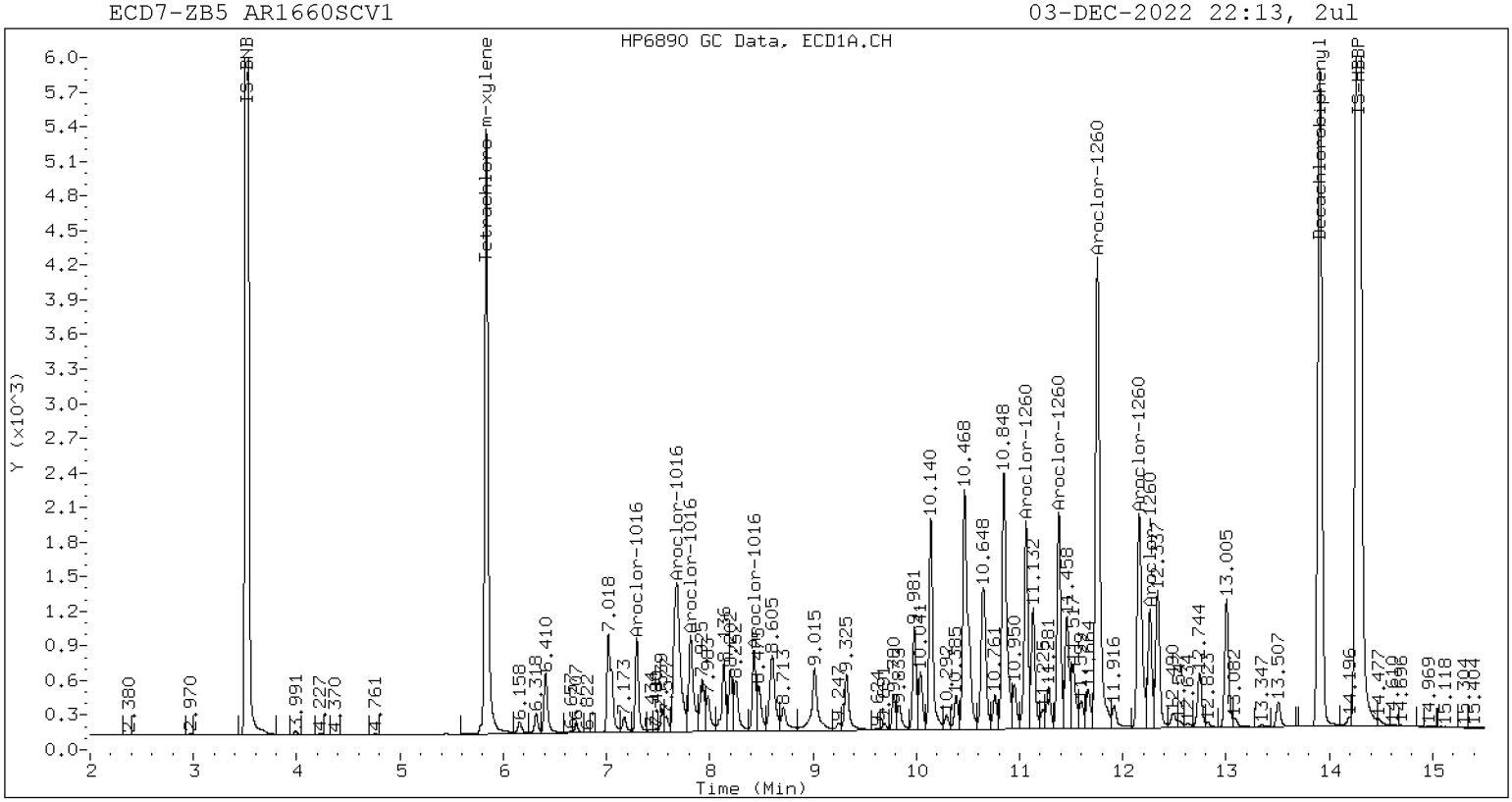
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

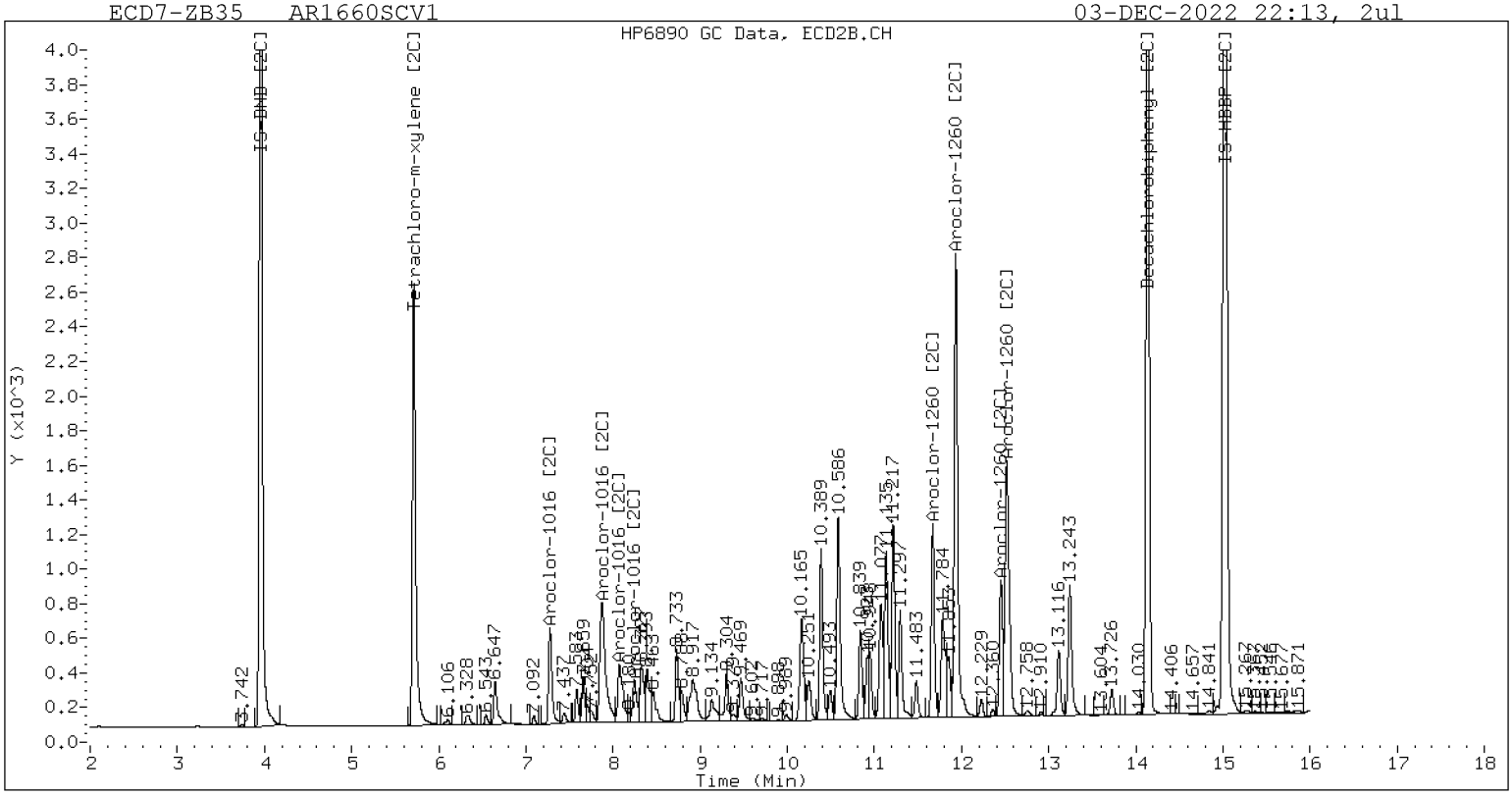
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032223ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV2	Injection Time:	22:34
Sequence Name:	AR1242SCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	207	0.0396000	0.0328545		-17.3	+/-20
Aroclor 1242 [2C]	A	250.00	225	0.0391981	0.0342776		-10.0	+/-20
Decachlorobiphenyl	A	40.000	39.1	0.7333327	0.7176455		-2.1	+/-20
Tetrachlorometaxylene	A	40.000	35.6	1.1336710	1.0081550		-11.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.1358180	1.0793200		-5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.0966080	0.9816931		-10.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

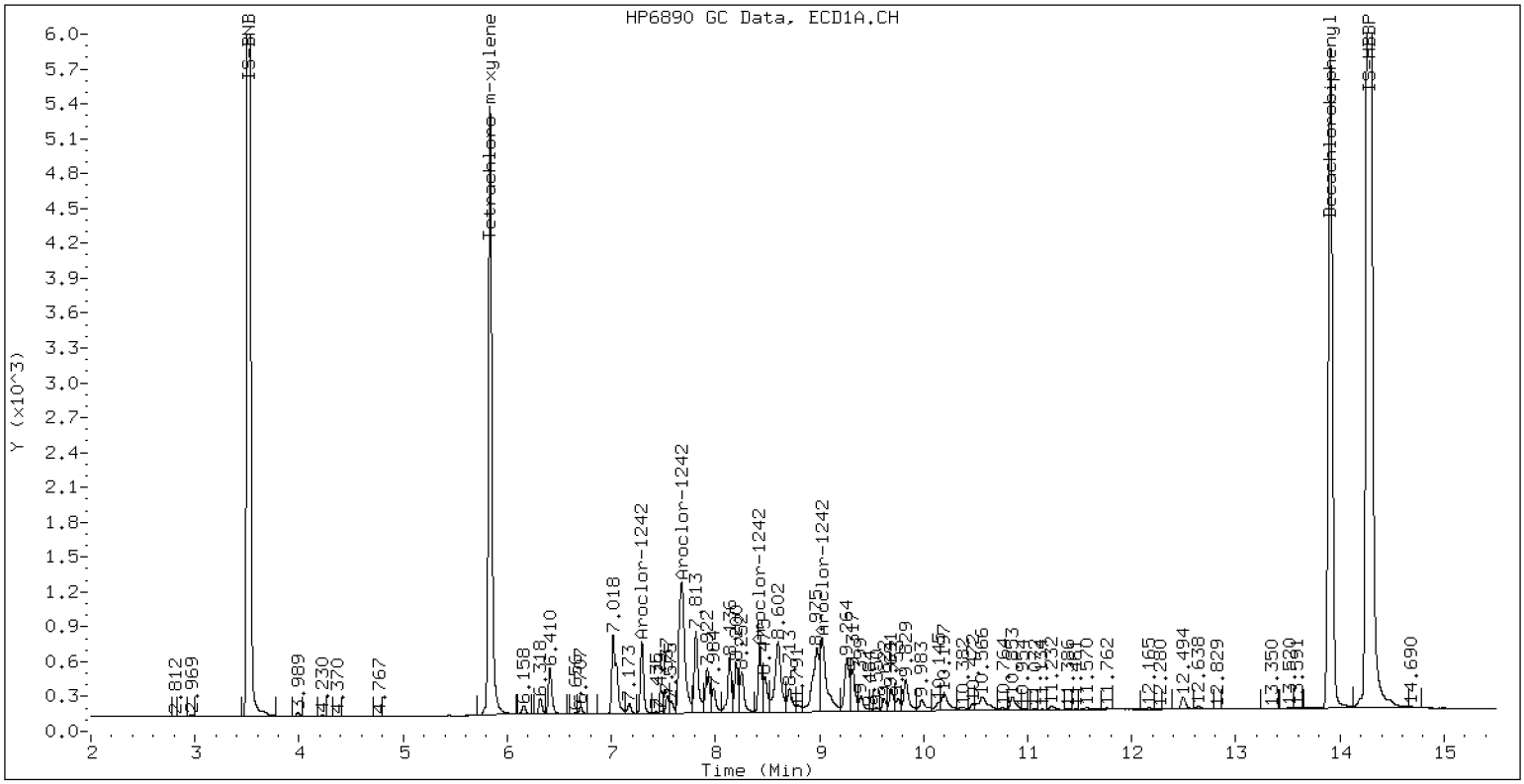
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

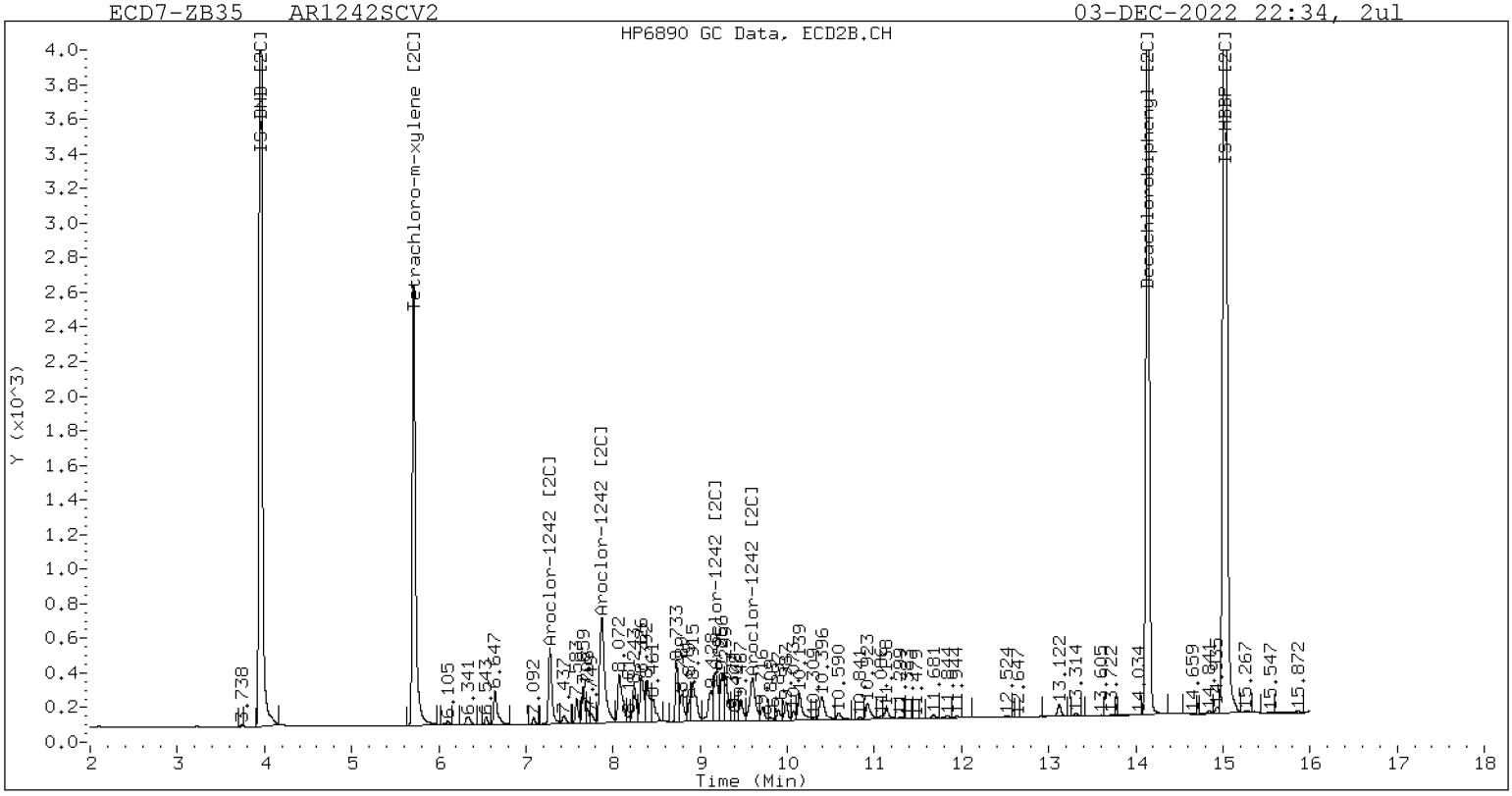
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032224ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV3	Injection Time:	22:55
Sequence Name:	AR1248SCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	246	0.0490062	0.0480752		-1.8	+/-20
Aroclor 1248 [2C]	A	250.00	230	0.0394876	0.0363529		-7.9	+/-20
Decachlorobiphenyl	A	40.000	39.3	0.7333327	0.7205014		-1.7	+/-20
Tetrachlorometaxylene	A	40.000	34.7	1.1336710	0.9836260		-13.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0816130		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.1	1.0966080	0.9613644		-12.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7
Total Col1Ave (4 peaks): 245.5						Total Col2Ave (4 peaks): 230.2			RPD = 6	
Corrected Ave (3 peaks): 238.8						Corrected Ave (3 peaks): 230.0			RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

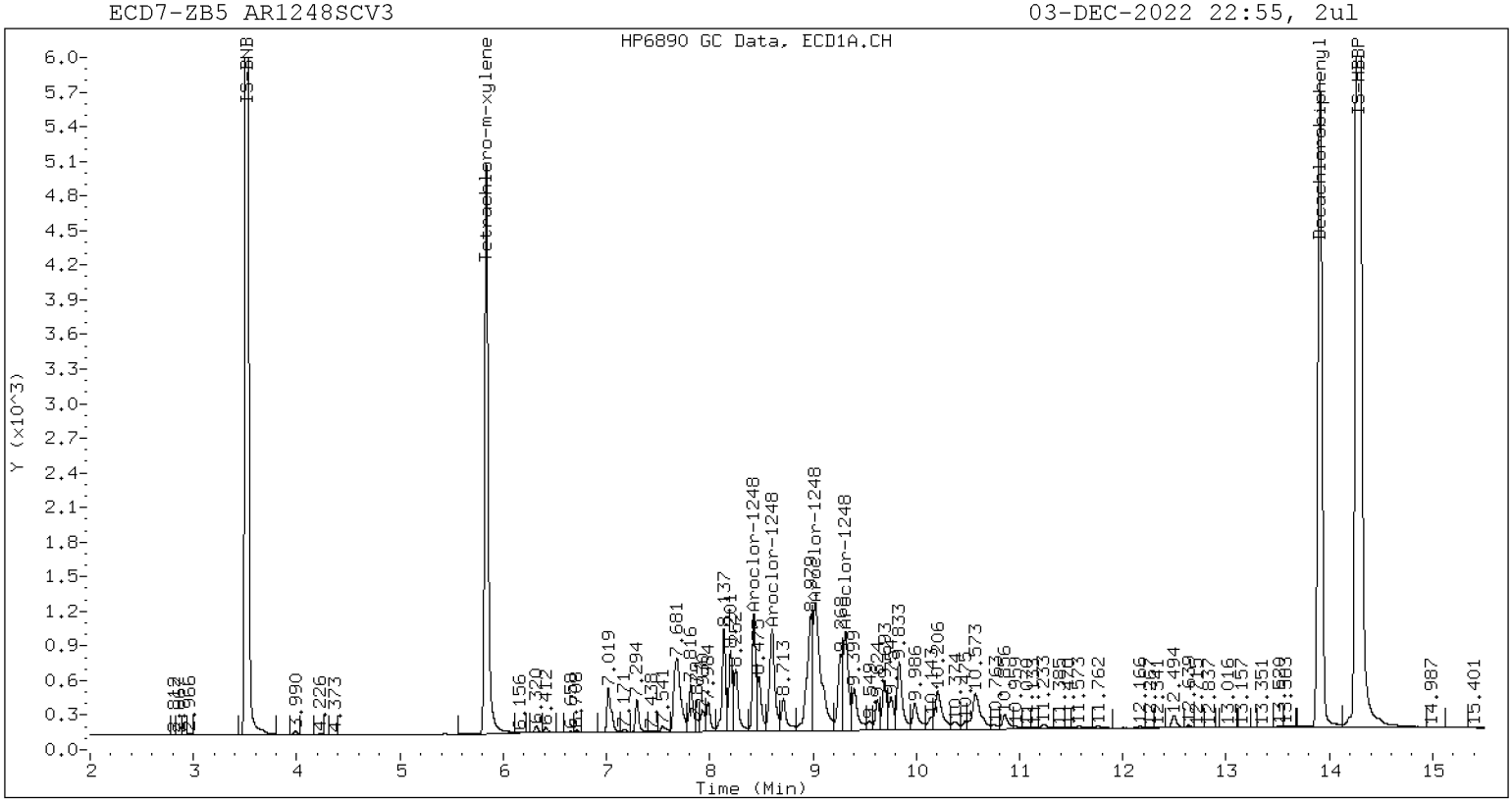
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

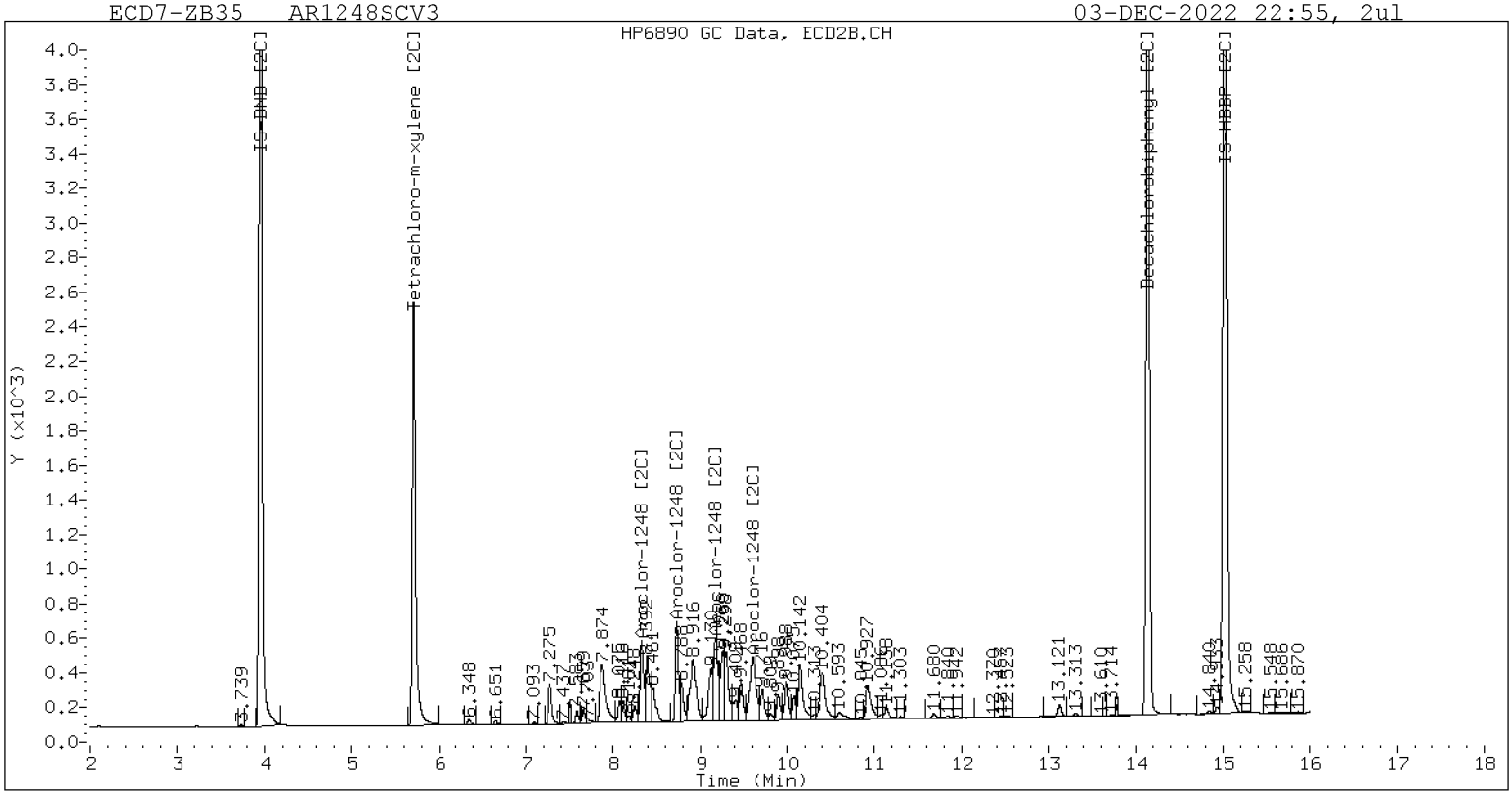
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032225ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV4	Injection Time:	23:17
Sequence Name:	AR1254SCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	228	0.0576965	0.0519120		-8.8	+/-20
Aroclor 1254 [2C]	A	250.00	231	0.0638047	0.0582302		-7.7	+/-20
Decachlorobiphenyl	A	40.000	39.5	0.7333327	0.7250146		-1.1	+/-20
Tetrachlorometaxylene	A	40.000	35.5	1.1336710	1.0063630		-11.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0811430		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.0	1.0966080	0.9868455		-10.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

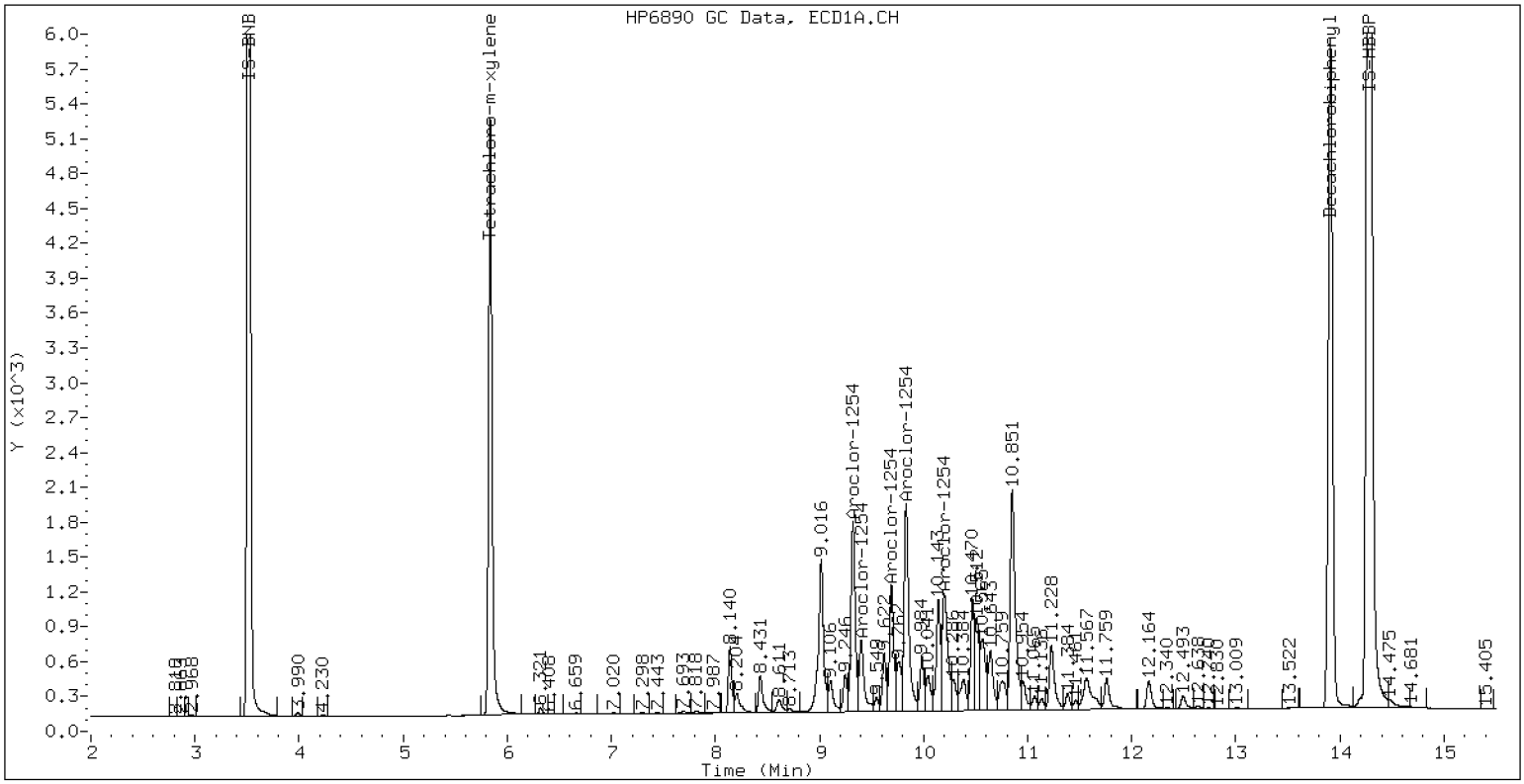
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

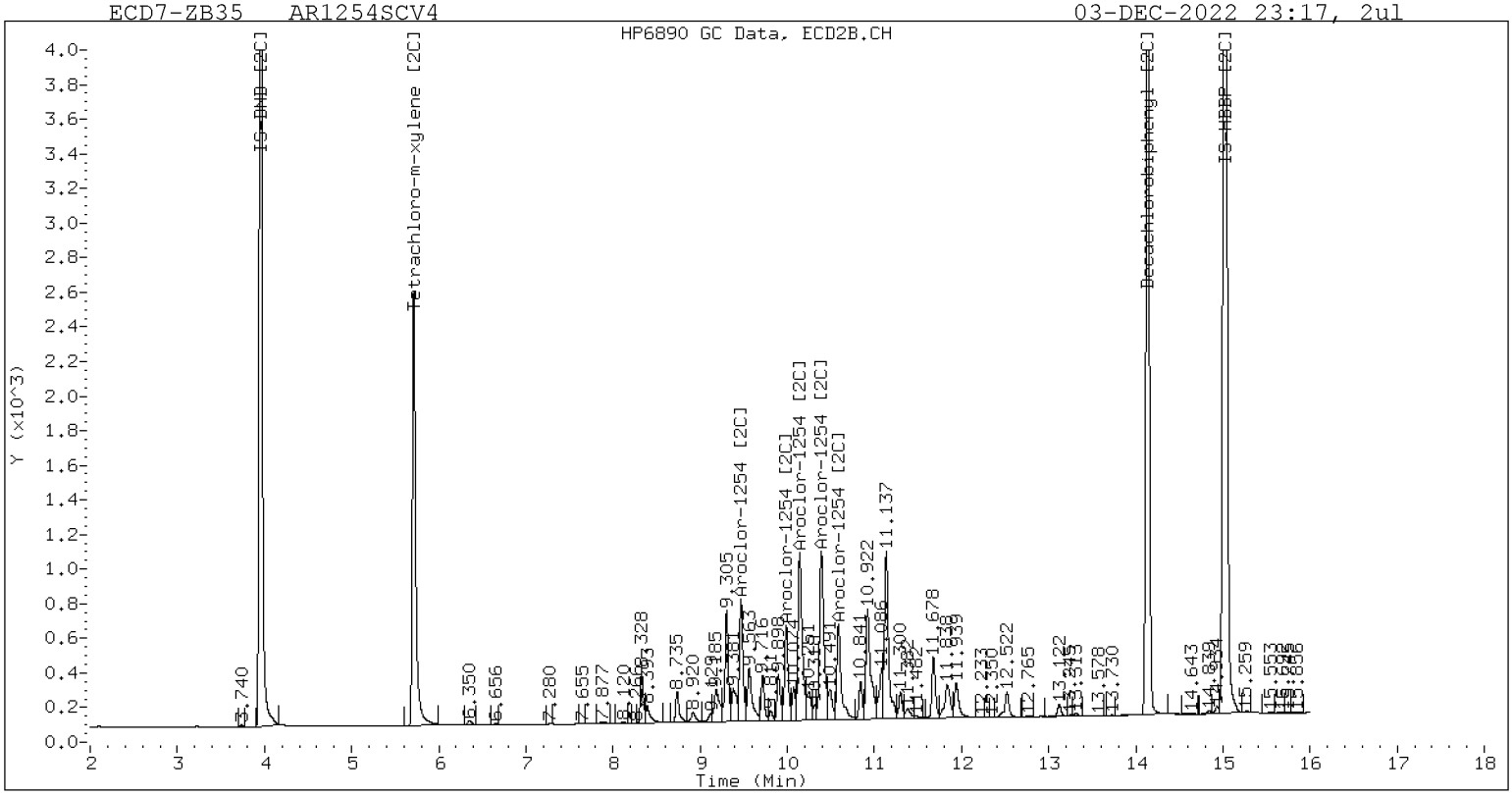
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032226ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV5	Injection Time:	23:38
Sequence Name:	AR2162SCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	237	0.0150468	0.0142259		-5.3	+/-20
Aroclor 1221 [2C]	A	250.00	236	0.0137578	0.0128521		-5.7	+/-20
Aroclor 1262	A	500.00	469	0.0371038	0.0347825		-6.2	+/-20
Aroclor 1262 [2C]	A	500.00	464	0.0656640	0.0610321		-7.1	+/-20
Decachlorobiphenyl	A	40.000	40.0	0.7333327	0.7330667		-0.04	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0221760		-9.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.4	1.1358180	1.0912900		-3.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.7	1.0966080	0.9776713		-10.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

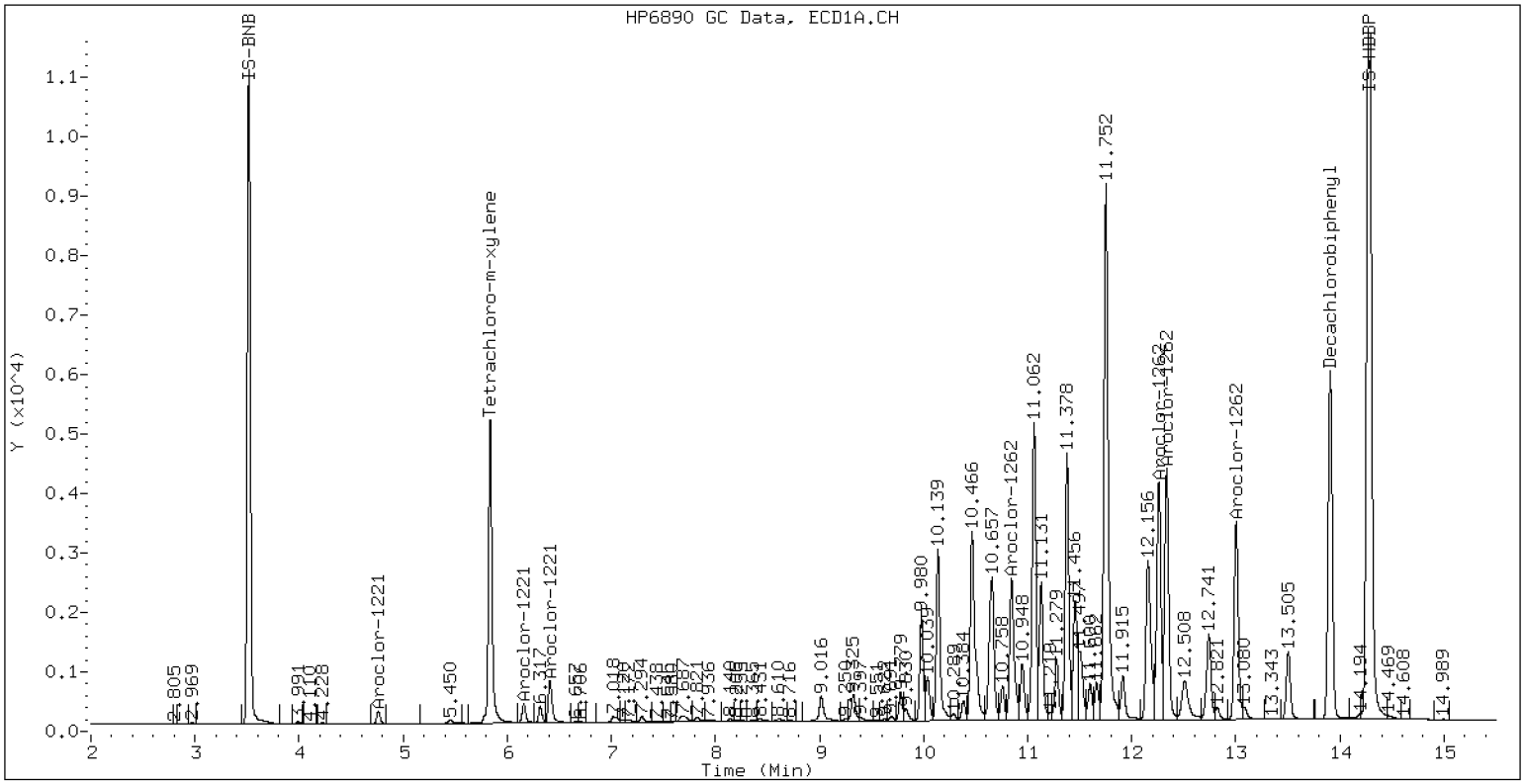
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

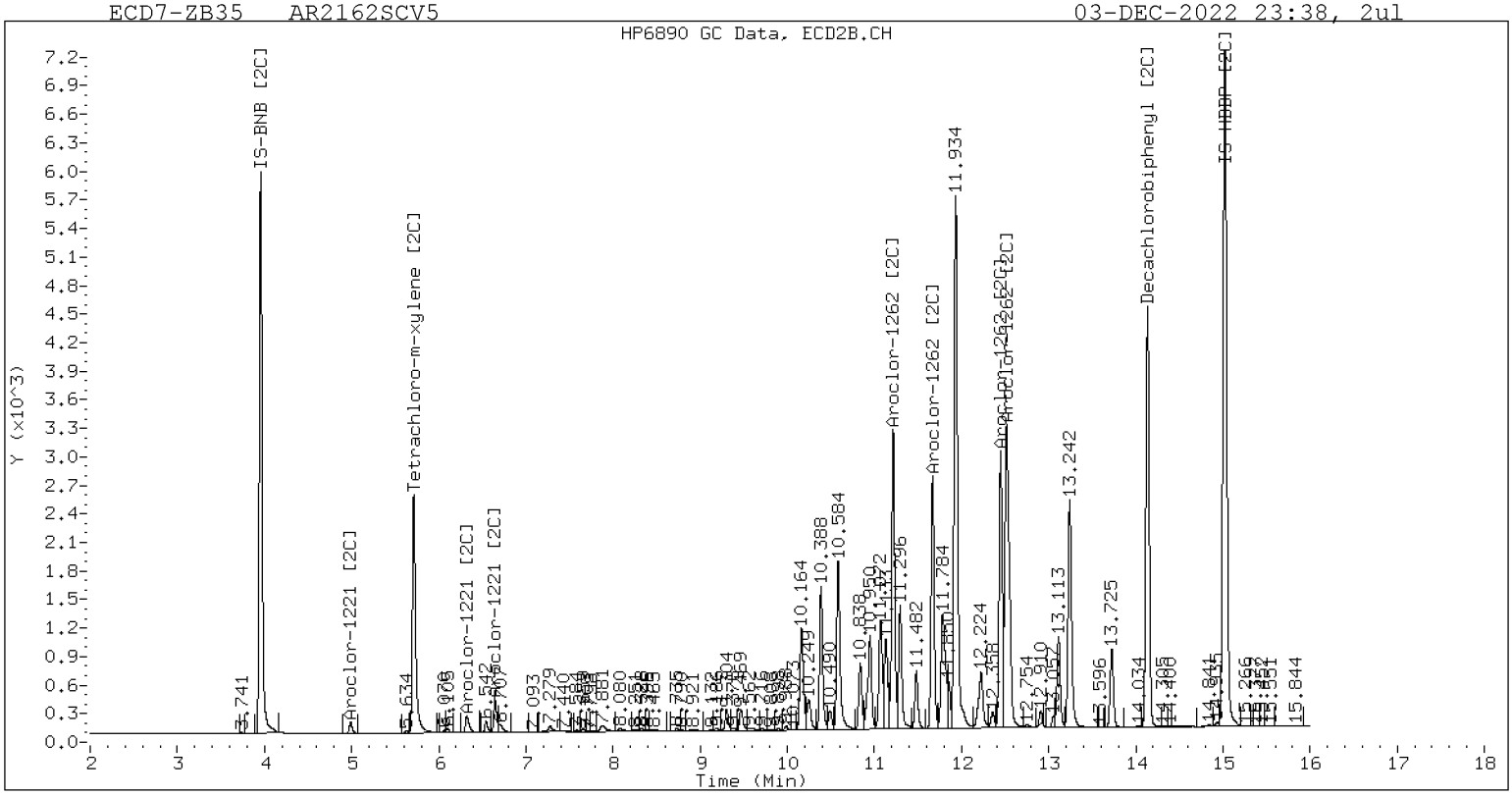
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032227ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV6	Injection Time:	23:59
Sequence Name:	AR3268SCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	217	0.0165403	0.0146227		-13.4	+/-20
Aroclor 1232 [2C]	A	250.00	230	0.0182815	0.0167216		-7.9	+/-20
Aroclor 1268	A	250.00	231	0.1462909	0.1351224		-7.5	+/-20
Aroclor 1268 [2C]	A	250.00	228	0.1941199	0.1796657		-8.9	+/-20
Decachlorobiphenyl	A	40.000	56.2	0.7333327	1.0299650		40.4	+/-20
Tetrachlorometaxylene	A	40.000	34.5	1.1336710	0.9771642		-13.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	54.9	1.1358180	1.5591590		37.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	34.2	1.0966080	0.9385176		-14.4	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

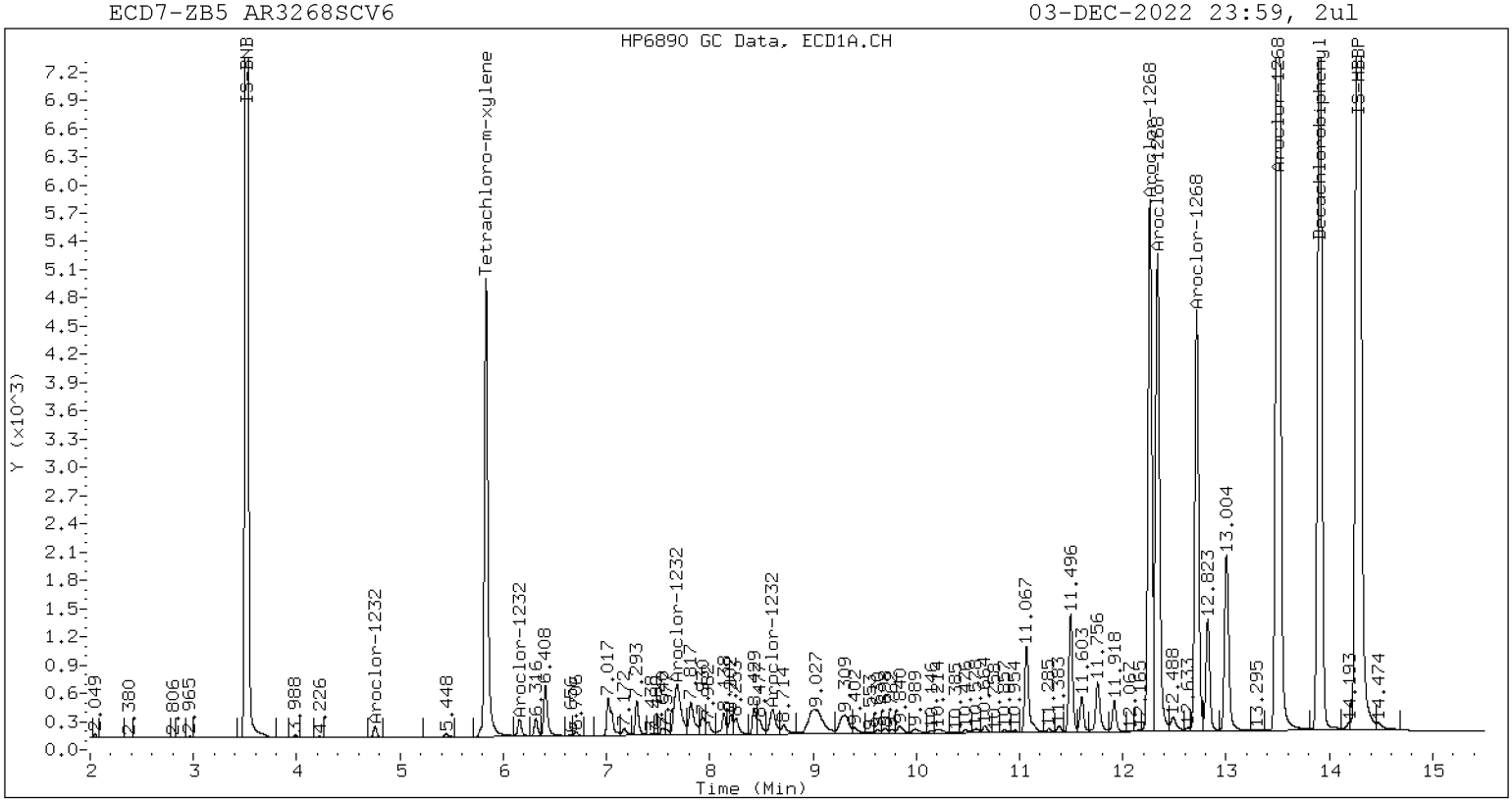
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

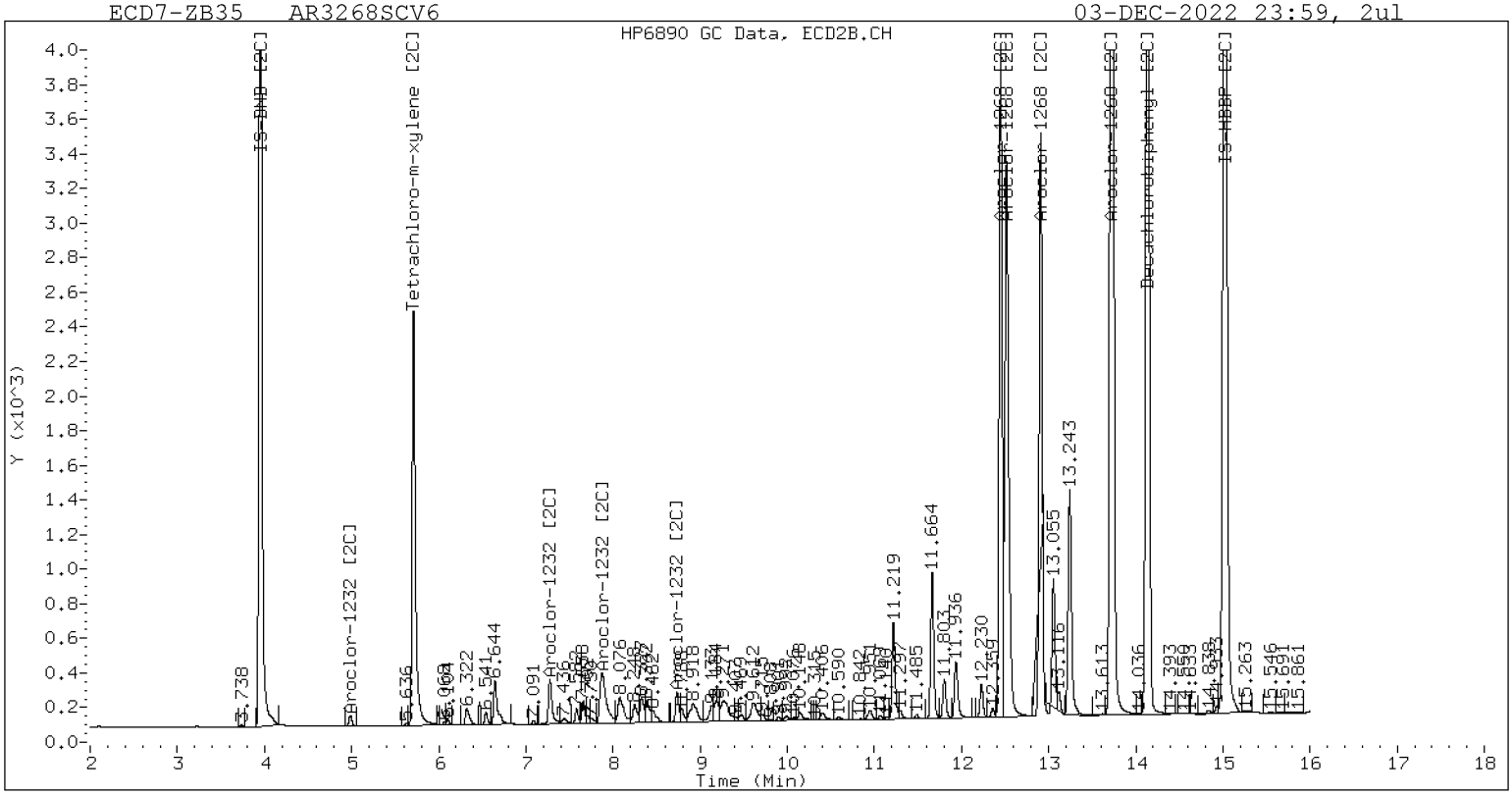
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292233ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/29/22
Lab Sample ID:	SKL0370-CCV3	Injection Time:	20:10
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	253	0.0396000	0.0398899		1.2	+/-20
Aroclor-1242 (1)	A	250.00	256		0.0232279			
Aroclor-1242 (2)	A	250.00	259		0.0746884			
Aroclor-1242 (3)	A	250.00	267		0.0221419			
Aroclor-1242 (4)	A	250.00	230		0.0395013			
Aroclor 1242 [2C]	A	250.00	266	0.0391981	0.0389841		6.4	+/-20
Aroclor-1242 (1) [2C]	A	250.00	264		0.0357635			
Aroclor-1242 (2) [2C]	A	250.00	207		0.0595159			
Aroclor-1242 (3) [2C]	A	250.00	292		0.0271009			
Aroclor-1242 (4) [2C]	A	250.00	301		0.0335563			
Decachlorobiphenyl	A	40.000	42.1	0.7333327	0.7717739		5.3	+/-20
Tetrachlorometaxylene	A	40.000	38.8	1.1336710	1.0985610		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1711490		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.7	1.0966080	1.0606800		-3.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292233ECD7.D
Data file 2: /221229.b/221229.b/12292233ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 29-DEC-2022 20:10
Report Date: 01/03/2023 11:18
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	183542	5.708	0.000	119406	38.8	38.7	0.2	Tetrachloro-m-xylene
13.903	-0.000	353949	14.128	-0.001	238429	42.1	41.2	2.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	334150	-25.4
Hexabromobiphenyl	798898	917235	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	225150	-9.6
Hexabromobiphenyl	362541	407171	12.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.290	0.000	24255	256.1	1	7.272	0.000	25163	264.1
Aroclor-1242	2	7.678	0.002	77991	259.3	2	7.872	0.000	41875	207.0
Aroclor-1242	3	8.423	-0.000	23121	267.2	3	9.170	0.001	19068	292.2
Aroclor-1242	4	9.025	0.001	41248	229.6	4	9.591	0.003	23610	301.0
Total Col1Ave (4 peaks):					253.1	Total Col2Ave (4 peaks):				266.1 RPD = 5
Corrected Ave (3 peaks):					248.3	Corrected Ave (3 peaks):				254.4 RPD = 2
CalAmt %D:					1.2	CalAmt %D:				6.4

Total PCB Area Col1 (5.932 - 13.803) = 798253 Col1 Total PCB = 0.2 ppm*

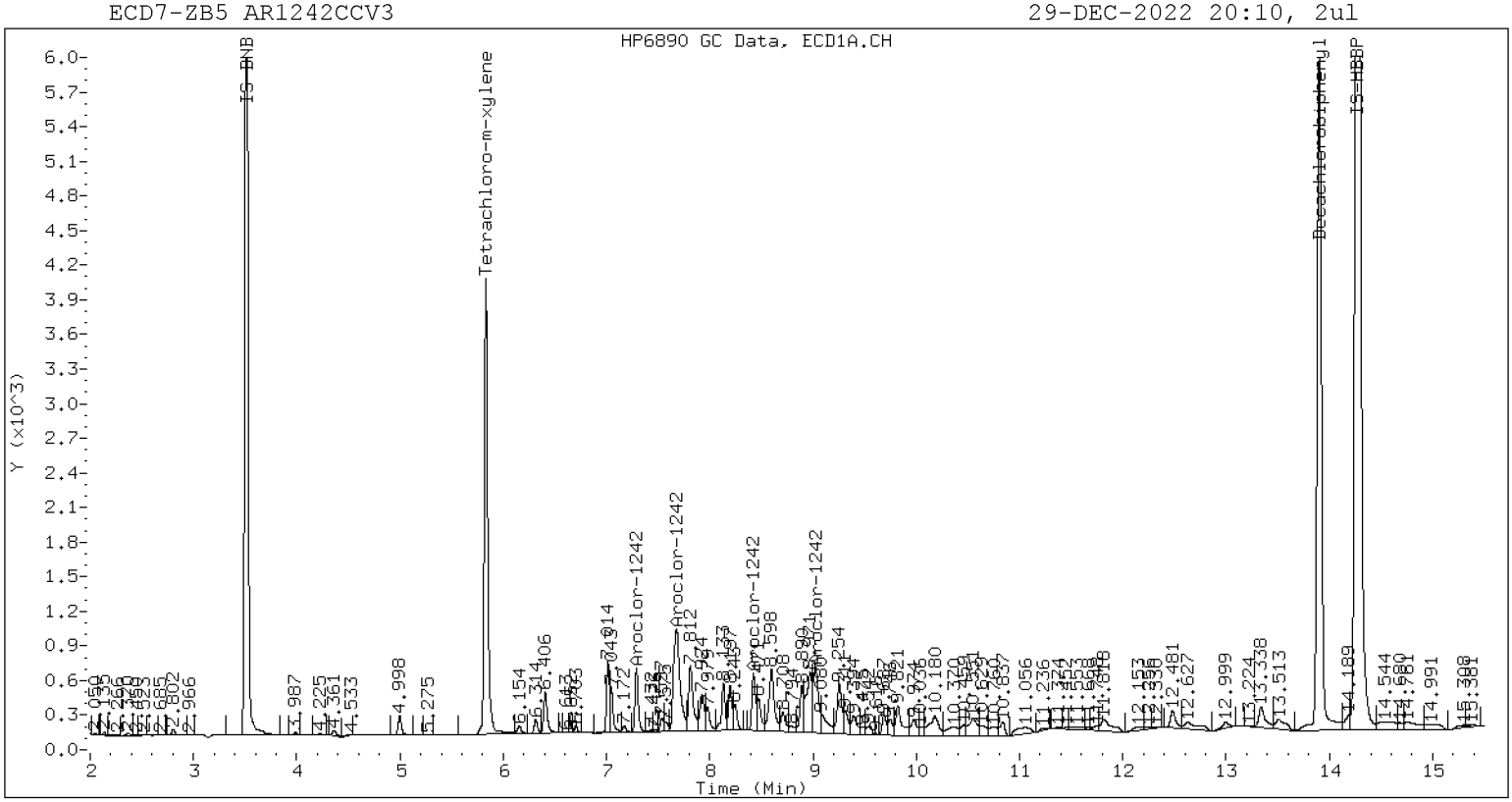
Total PCB Area Col2 (5.808 - 14.029) = 402793 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

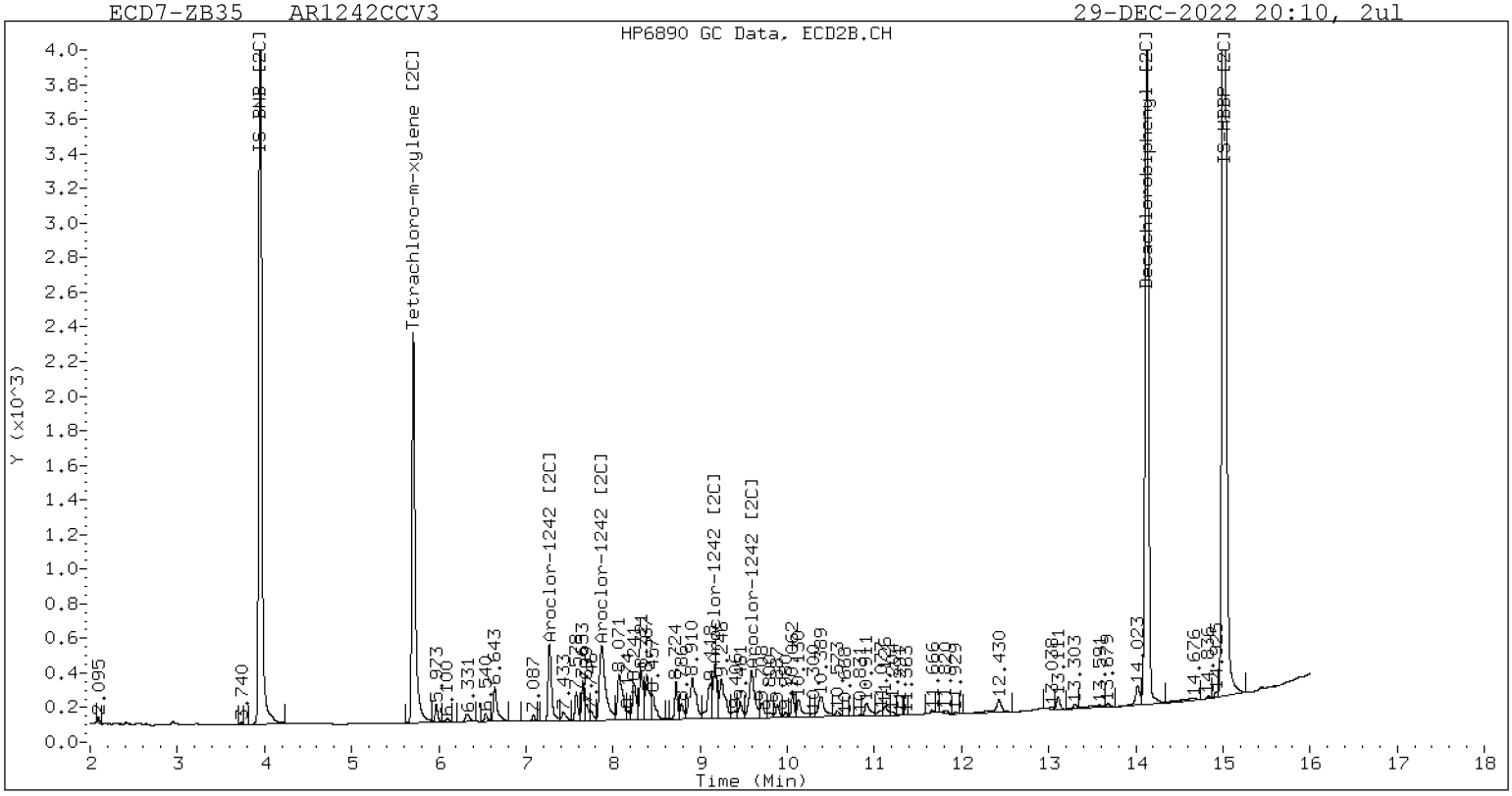
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 29-DEC-2022 20:10, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 29-DEC-2022 20:10, 2ul

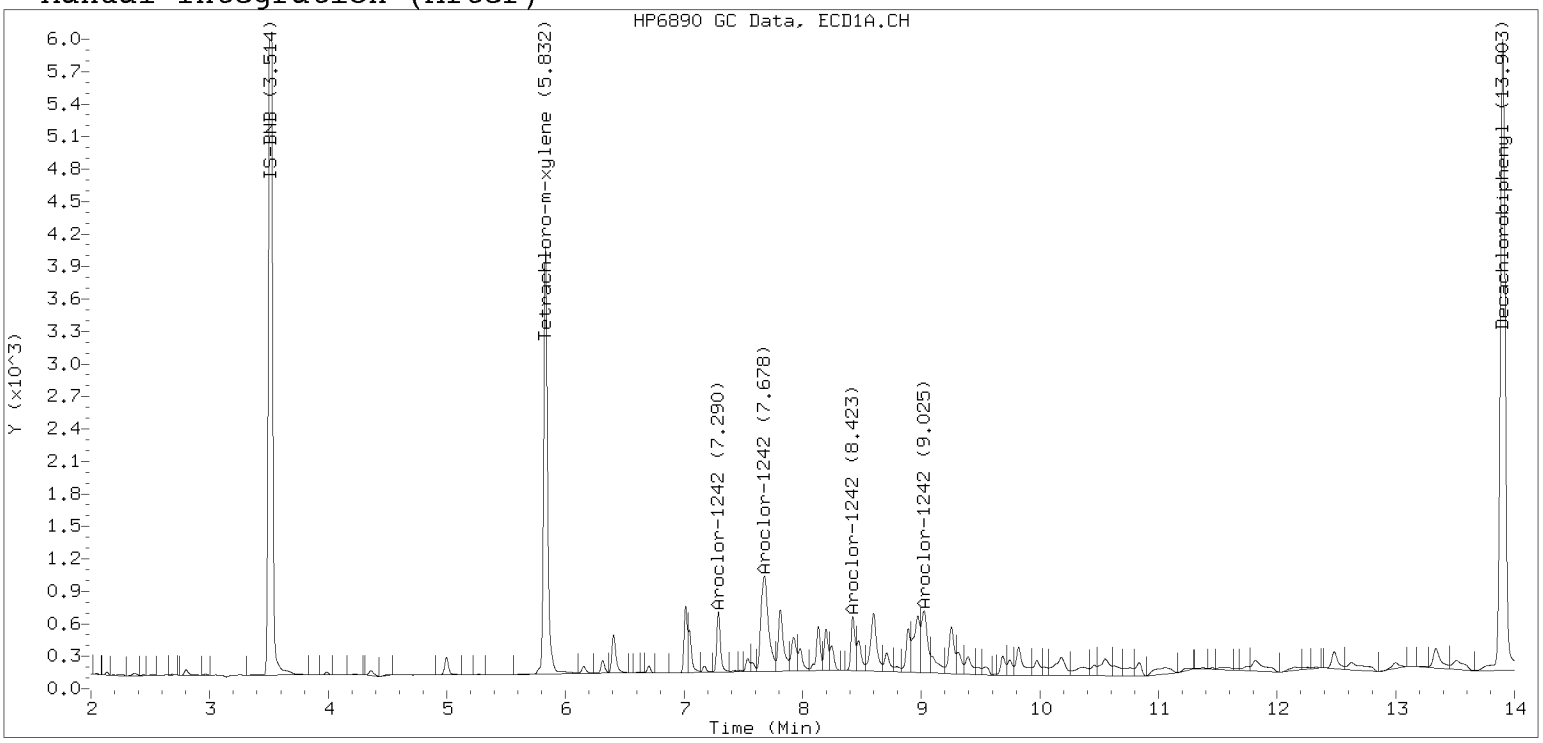


ZB-35 Manual Integration: NO

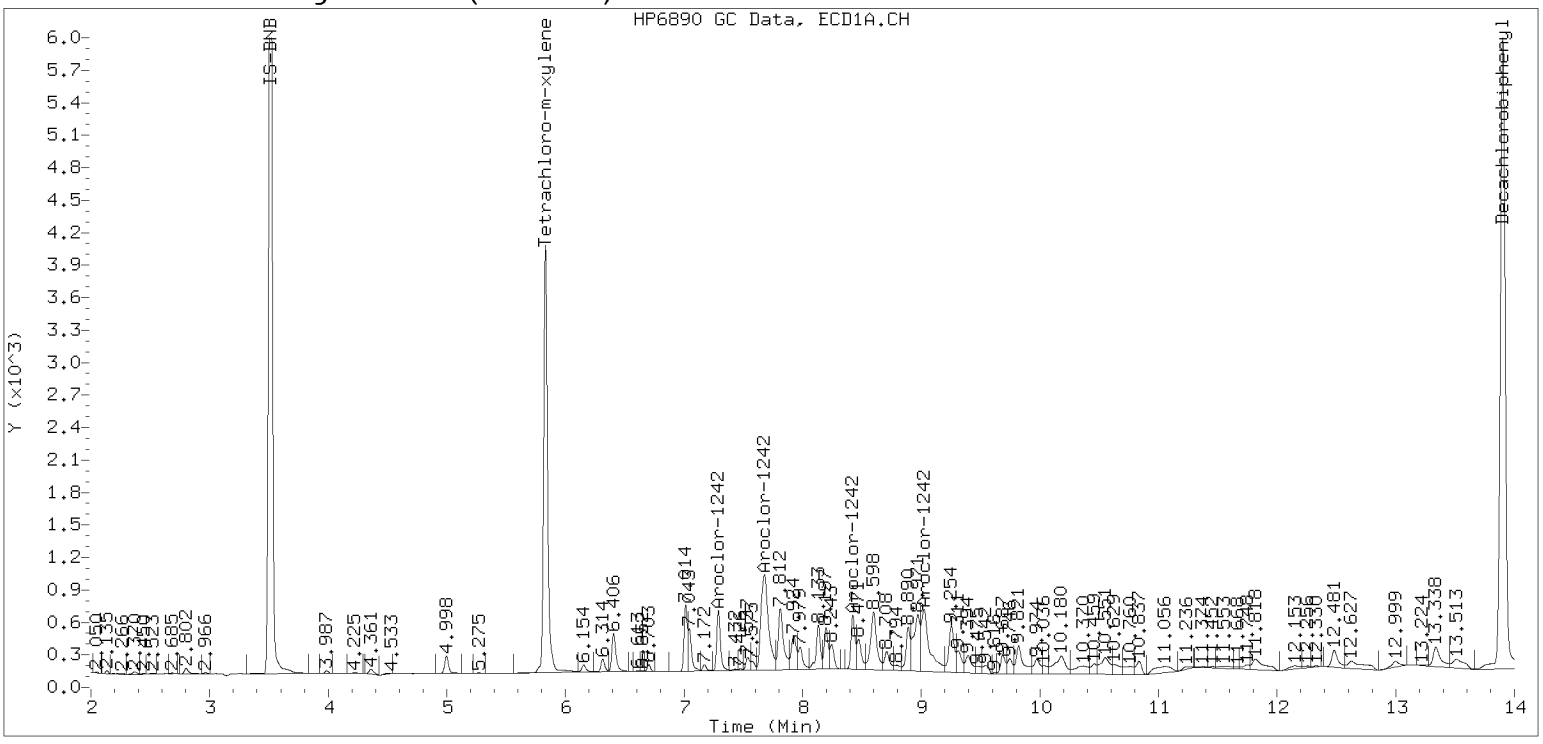
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221229.b/12292233ECD7.D Injection Date: 29-DEC-2022 20:10

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292234ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/29/22
Lab Sample ID:	SKL0370-CCV4	Injection Time:	20:31
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	266	0.0441939	0.0466601		6.5	+/-20
Aroclor-1016 (1)	A	250.00	262	0.0266860	0.0279868		4.8	
Aroclor-1016 (2)	A	250.00	259	0.0861572	0.0891420		3.6	
Aroclor-1016 (3)	A	250.00	271	0.0390425	0.0422917		8.4	
Aroclor-1016 (4)	A	250.00	273	0.0248899	0.0272199		9.2	
Aroclor 1016 [2C]	A	250.00	243	0.0467310	0.0430675		-2.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	250	0.0409030	0.0409950		0.0	
Aroclor-1016 (2) [2C]	A	250.00	205	0.0882154	0.0723526		-18.0	
Aroclor-1016 (3) [2C]	A	250.00	248	0.0378846	0.0375592		-0.8	
Aroclor-1016 (4) [2C]	A	250.00	268	0.0199212	0.0213631		7.2	
Aroclor 1260	A	250.00	252	0.0390342	0.0391499		1.0	+/-20
Aroclor-1260 (1)	A	250.00	248	0.0291201	0.0288690		-0.8	
Aroclor-1260 (2)	A	250.00	249	0.0301181	0.0299902		-0.4	
Aroclor-1260 (3)	A	250.00	251	0.0791351	0.0795410		0.4	
Aroclor-1260 (4)	A	250.00	246	0.0403003	0.0396560		-1.6	
Aroclor-1260 (5)	A	250.00	268	0.0164974	0.0176936		7.2	
Aroclor 1260 [2C]	A	250.00	205	0.0617619	0.0467096		-18.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	227	0.0422283	0.0383456		-9.2	
Aroclor-1260 (2) [2C]	A	250.00	162	0.1059643	0.0689168		-35.2	
Aroclor-1260 (3) [2C]	A	250.00	247	0.0282173	0.0278475		-1.2	
Aroclor-1260 (4) [2C]	A	250.00	183	0.0706376	0.0517283		-26.8	
Decachlorobiphenyl	A	40.000	46.0	0.7333327	0.8435487		15.0	+/-20
Tetrachlorometaxylene	A	40.000	39.6	1.1336710	1.1224640		-1.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1703320		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.8	1.0966080	1.0919400		-0.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292234ECD7.D
Data file 2: /221229.b/221229.b/12292234ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 29-DEC-2022 20:31
Report Date: 01/03/2023 11:18
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	151046	5.708	0.000	97786	39.6	39.8	0.6	Tetrachloro-m-xylene
13.904	0.001	292994	14.129	-0.000	196758	46.0	41.2	11.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	269133	-39.9
Hexabromobiphenyl	798898	694670	-13.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	179105	-28.1
Hexabromobiphenyl	362541	336243	-7.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.000	23538	262.2	1	7.272	0.001	22945	250.6
Aroclor-1016	2	7.678	0.000	74972	258.7	2	7.872	-0.002	40496	205.0
Aroclor-1016	3	7.812	-0.000	35569	270.8	3	8.070	-0.000	21022	247.9
Aroclor-1016	4	8.424	0.001	22893	273.4	4	8.242	-0.000	11957	268.1
Total Col1Ave (4 peaks):					266.3	Total Col2Ave (4 peaks):				242.9 RPD = 9
Corrected Ave (3 peaks):					263.9	Corrected Ave (3 peaks):				234.5 RPD = 12
CalAmt %D:					6.5	CalAmt %D:				-2.8
Aroclor-1260	1	11.056	-0.000	62670	247.8	1	11.662	-0.000	40292	227.0
Aroclor-1260	2	11.373	0.001	65104	248.9	2	11.925	-0.000	72415	162.6
Aroclor-1260	3	11.746	-0.000	172671	251.3	3	12.444	-0.001	29261	246.7
Aroclor-1260	4	12.151	-0.001	86087	246.0	4	12.509	0.000	54354	183.1
Aroclor-1260	5	12.255	-0.001	38410	268.1	NS	---			----
Total Col1Ave (5 peaks):					252.4	Total Col2Ave (4 peaks):				204.9 RPD = 21
Corrected Ave (4 peaks):					248.5	Corrected Ave (3 peaks):				190.9 RPD = 26
CalAmt %D:					1.0	CalAmt %D:				-18.1

Total PCB Area Col1 (5.932 - 13.803) = 1733508 Col1 Total PCB = 0.7 ppm*

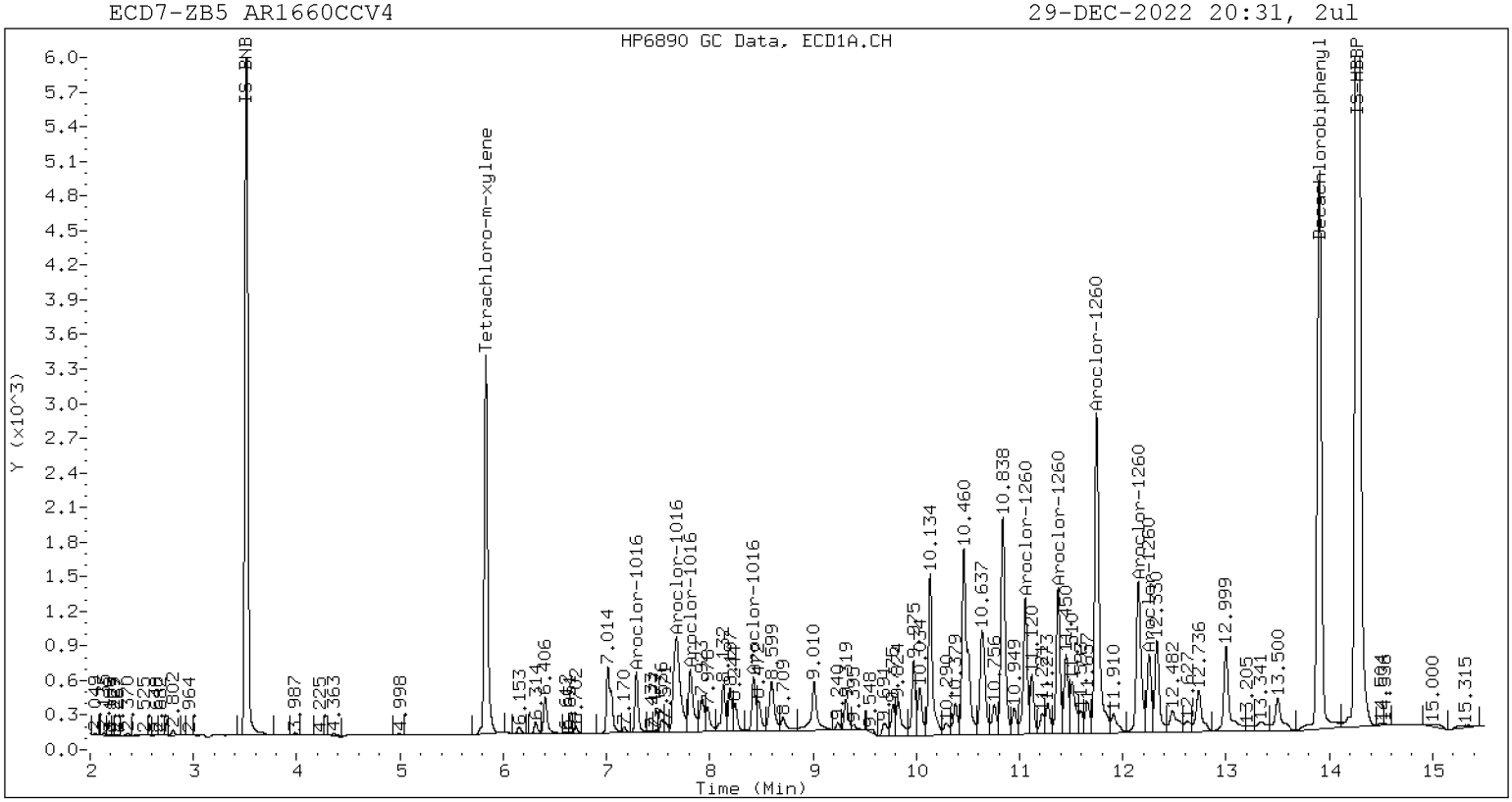
Total PCB Area Col2 (5.808 - 14.029) = 877982 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

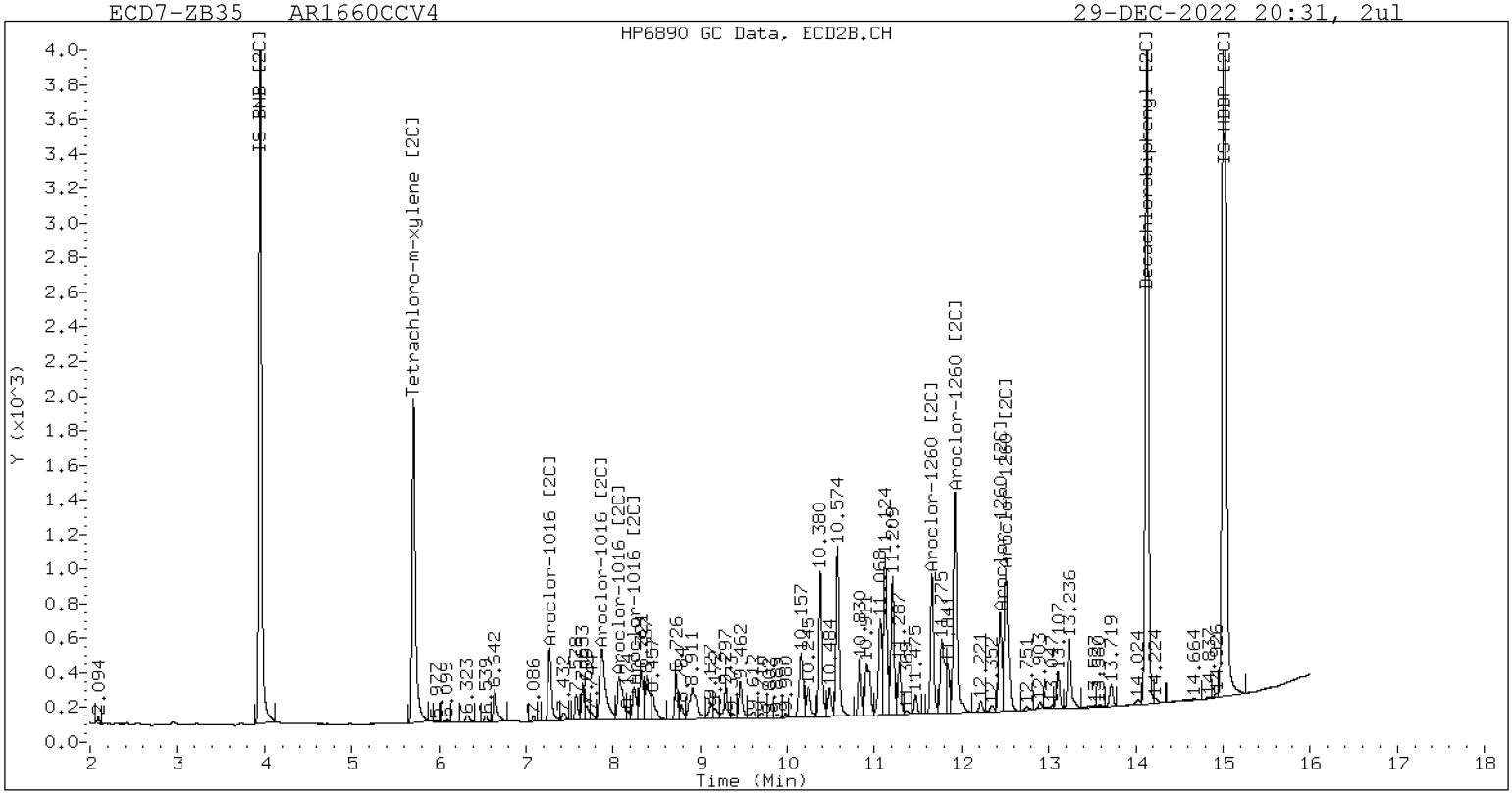
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 29-DEC-2022 20:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 29-DEC-2022 20:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292245ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCV5	Injection Time:	00:23
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	268	0.0576965	0.0624006		7.1	+/-20
Aroclor-1254 (1)	A	250.00	250		0.0703071			
Aroclor-1254 (2)	A	250.00	279		0.0305822			
Aroclor-1254 (3)	A	250.00	221		0.0393499			
Aroclor-1254 (4)	A	250.00	289		0.1003213			
Aroclor-1254 (5)	A	250.00	300		0.0714424			
Aroclor 1254 [2C]	A	250.00	240	0.0638047	0.0625836		-4.1	+/-20
Aroclor-1254 (1) [2C]	A	250.00	242		0.0500251			
Aroclor-1254 (2) [2C]	A	250.00	165		0.0274260			
Aroclor-1254 (3) [2C]	A	250.00	224		0.0800650			
Aroclor-1254 (4) [2C]	A	250.00	284		0.1047338			
Aroclor-1254 (5) [2C]	A	250.00	284		0.0506681			
Decachlorobiphenyl	A	40.000	43.2	0.7333327	0.7914829		8.0	+/-20
Tetrachlorometaxylene	A	40.000	36.8	1.1336710	1.0439660		-8.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.1	1.1358180	1.1951780		5.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.7	1.0966080	1.0063930		-8.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292245ECD7.D
Data file 2: /221229.b/221229.b/12292245ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 30-DEC-2022 00:23
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	193769	5.708	0.000	126964	36.8	36.7	0.3	Tetrachloro-m-xylene
13.904	0.000	317778	14.128	-0.001	243435	43.2	42.1	2.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	371217	-17.1
Hexabromobiphenyl	798898	802994	0.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	252315	1.3
Hexabromobiphenyl	362541	407362	12.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	0.001	81560	249.5	1	9.460	0.000	39444	242.5
Aroclor-1254	2	9.394	0.001	35477	279.1	2	9.977	-0.000	21625	165.3
Aroclor-1254	3	9.686	0.000	45648	221.1	3	10.129	-0.000	63130	224.6
Aroclor-1254	4	9.820	-0.001	116378	289.2	4	10.378	0.000	82581	283.6
Aroclor-1254	5	10.176	0.001	82877	300.5	5	10.575	-0.000	39951	284.5
		Total Col1Ave (5 peaks):		267.9			Total Col2Ave (5 peaks):		240.1	RPD = 11
		Corrected Ave (4 peaks):		259.7			Corrected Ave (4 peaks):		229.0	RPD = 13
			CalAmt %D:	7.2				CalAmt %D:	-4.0	

Total PCB Area Col1 (5.932 - 13.803) = 1229260 Col1 Total PCB = 0.3 ppm*

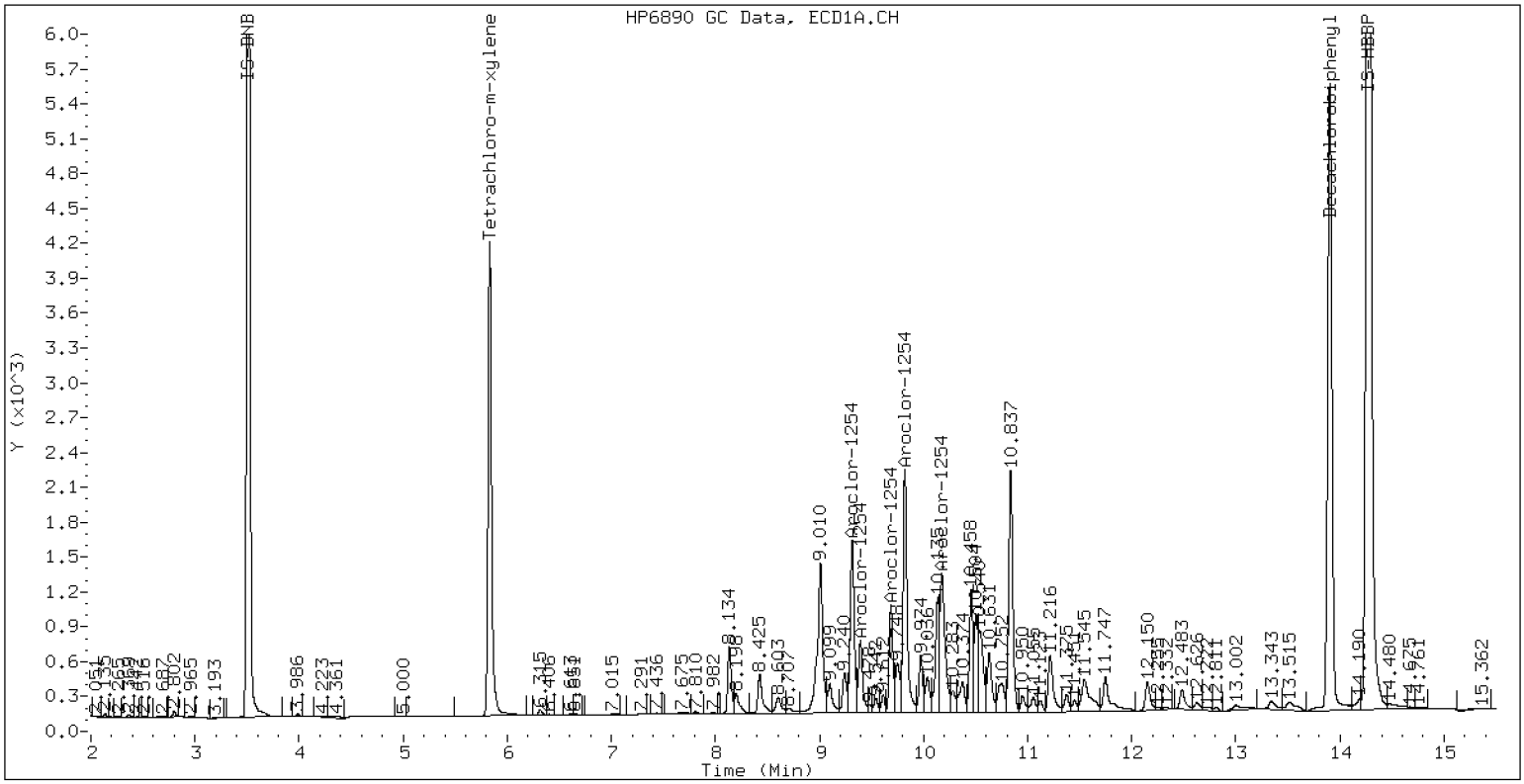
Total PCB Area Col2 (5.808 - 14.029) = 717349 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

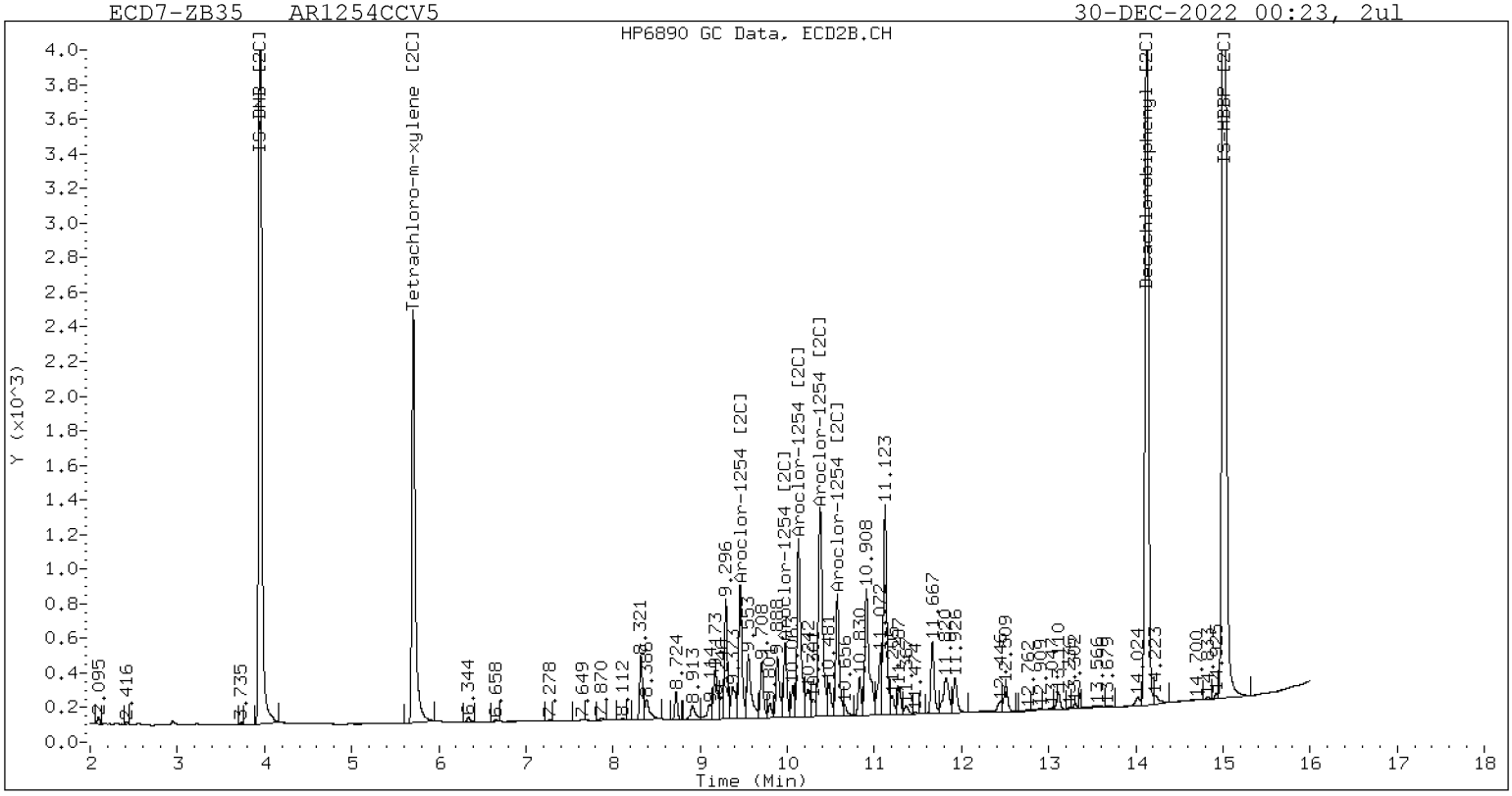
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 30-DEC-2022 00:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 30-DEC-2022 00:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292246ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCV6	Injection Time:	00:44
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	257	0.0441939	0.0444337		2.8	+/-20
Aroclor-1016 (1)	A	250.00	266	0.0266860	0.0284542		6.4	
Aroclor-1016 (2)	A	250.00	243	0.0861572	0.0836503		-2.8	
Aroclor-1016 (3)	A	250.00	247	0.0390425	0.0385822		-1.2	
Aroclor-1016 (4)	A	250.00	272	0.0248899	0.0270480		8.8	
Aroclor 1016 [2C]	A	250.00	243	0.0467310	0.0430196		-3.0	+/-20
Aroclor-1016 (1) [2C]	A	250.00	251	0.0409030	0.0411323		0.4	
Aroclor-1016 (2) [2C]	A	250.00	204	0.0882154	0.0721385		-18.4	
Aroclor-1016 (3) [2C]	A	250.00	247	0.0378846	0.0374435		-1.2	
Aroclor-1016 (4) [2C]	A	250.00	268	0.0199212	0.0213640		7.2	
Aroclor 1260	A	250.00	246	0.0390342	0.0377887		-1.7	+/-20
Aroclor-1260 (1)	A	250.00	230	0.0291201	0.0268153		-8.0	
Aroclor-1260 (2)	A	250.00	233	0.0301181	0.0280948		-6.8	
Aroclor-1260 (3)	A	250.00	236	0.0791351	0.0748439		-5.6	
Aroclor-1260 (4)	A	250.00	254	0.0403003	0.0409643		1.6	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0182252		10.4	
Aroclor 1260 [2C]	A	250.00	209	0.0617619	0.0478019		-16.3	+/-20
Aroclor-1260 (1) [2C]	A	250.00	233	0.0422283	0.0393925		-6.8	
Aroclor-1260 (2) [2C]	A	250.00	166	0.1059643	0.0705965		-33.6	
Aroclor-1260 (3) [2C]	A	250.00	251	0.0282173	0.0283196		0.4	
Aroclor-1260 (4) [2C]	A	250.00	187	0.0706376	0.0528988		-25.2	
Decachlorobiphenyl	A	40.000	45.4	0.7333327	0.8325184		13.5	+/-20
Tetrachlorometaxylene	A	40.000	39.8	1.1336710	1.1291320		-0.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1710910		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.5	1.0966080	1.1114140		1.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292246ECD7.D
Data file 2: /221229.b/221229.b/12292246ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 30-DEC-2022 00:44
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.000	156990	5.708	-0.000	104753	39.8	40.5	1.7	Tetrachloro-m-xylene
13.902	-0.001	280669	14.126	-0.003	192809	45.4	41.2	9.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	278072	-37.9
Hexabromobiphenyl	798898	674265	-15.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	188504	-24.3
Hexabromobiphenyl	362541	329281	-9.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.001	24726	266.6	1	7.270	-0.001	24230	251.4
Aroclor-1016	2	7.676	-0.003	72690	242.7	2	7.871	-0.003	42495	204.4
Aroclor-1016	3	7.811	-0.001	33527	247.1	3	8.070	-0.000	22057	247.1
Aroclor-1016	4	8.422	-0.001	23504	271.7	4	8.241	-0.002	12585	268.1
Total Col1Ave (4 peaks):					257.0	Total Col2Ave (4 peaks):				242.8 RPD = 6
Corrected Ave (3 peaks):					252.1	Corrected Ave (3 peaks):				234.3 RPD = 7
CalAmt %D:					2.8	CalAmt %D:				-2.9
Aroclor-1260	1	11.056	-0.000	56502	230.2	1	11.662	-0.000	40535	233.2
Aroclor-1260	2	11.372	0.000	59198	233.2	2	11.925	-0.000	72644	166.6
Aroclor-1260	3	11.745	-0.001	157702	236.4	3	12.443	-0.002	29141	250.9
Aroclor-1260	4	12.150	-0.002	86315	254.1	4	12.508	-0.001	54433	187.2
Aroclor-1260	5	12.255	-0.001	38402	276.2	NS	---			----
Total Col1Ave (5 peaks):					246.0	Total Col2Ave (4 peaks):				209.5 RPD = 16
Corrected Ave (4 peaks):					238.5	Corrected Ave (3 peaks):				195.7 RPD = 20
CalAmt %D:					-1.6	CalAmt %D:				-16.2

Total PCB Area Col1 (5.932 - 13.803) = 1603582 Col1 Total PCB = 0.6 ppm*

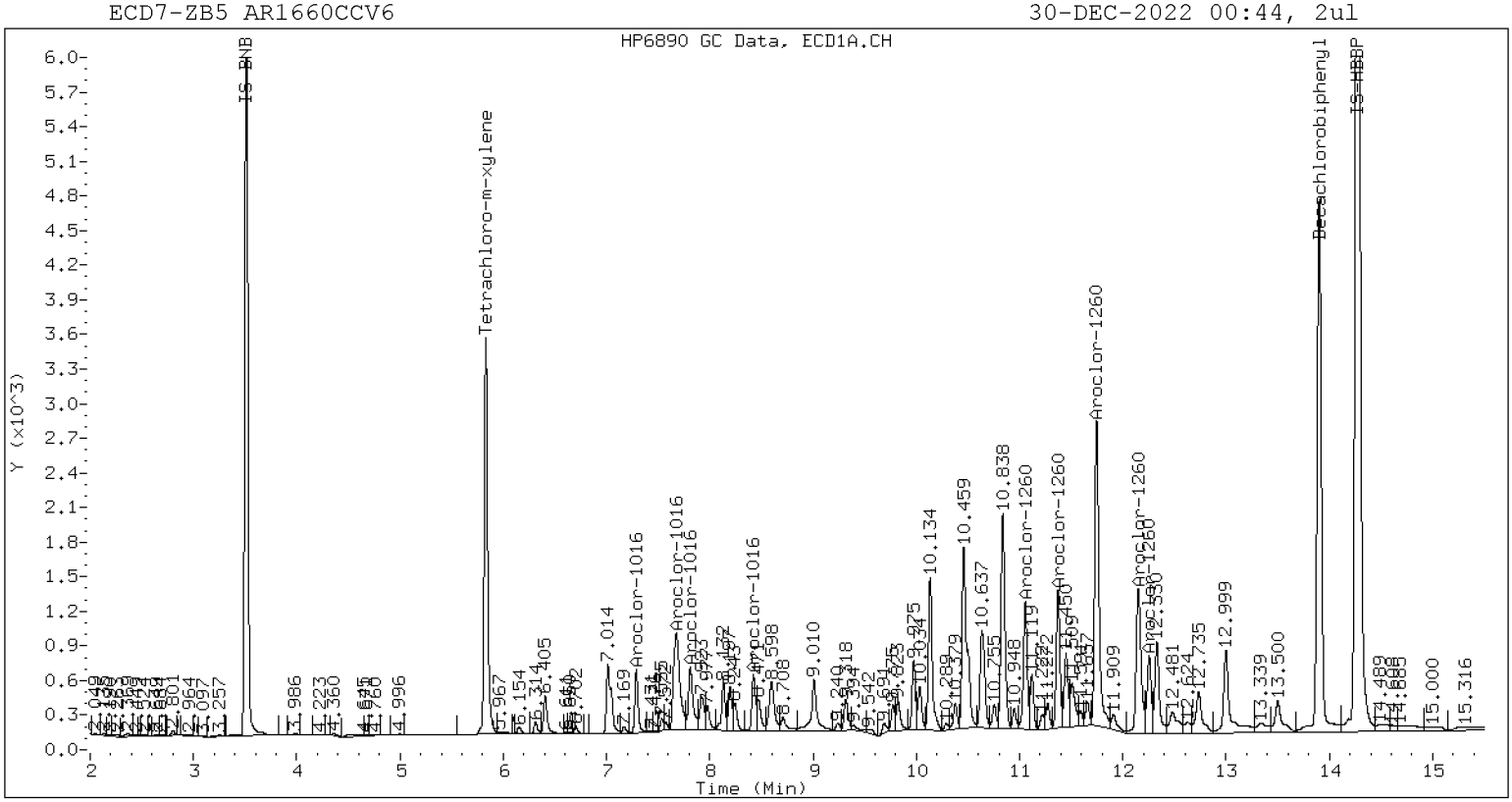
Total PCB Area Col2 (5.808 - 14.029) = 894644 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

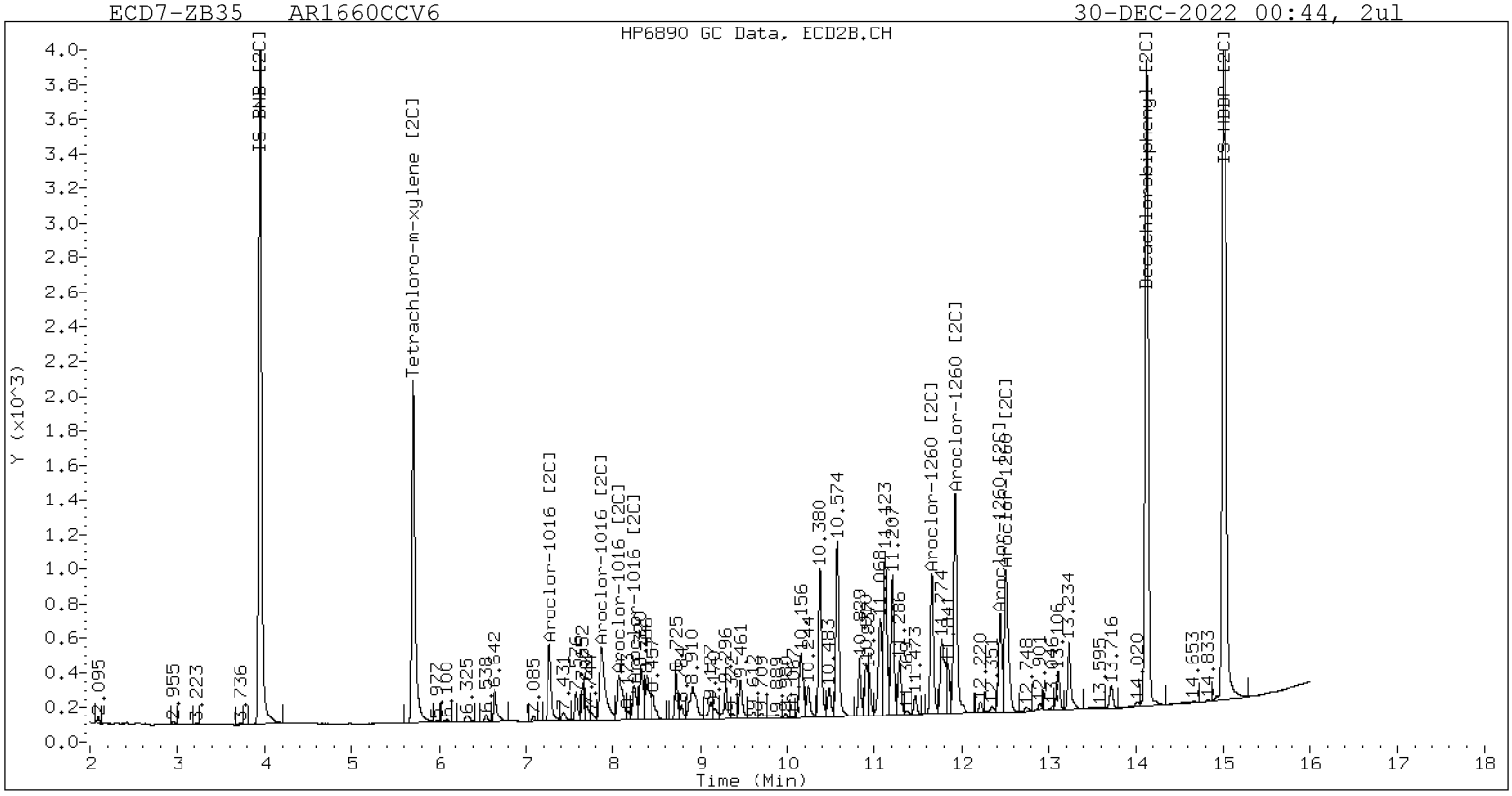
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 30-DEC-2022 00:44, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV6 30-DEC-2022 00:44, 2ul

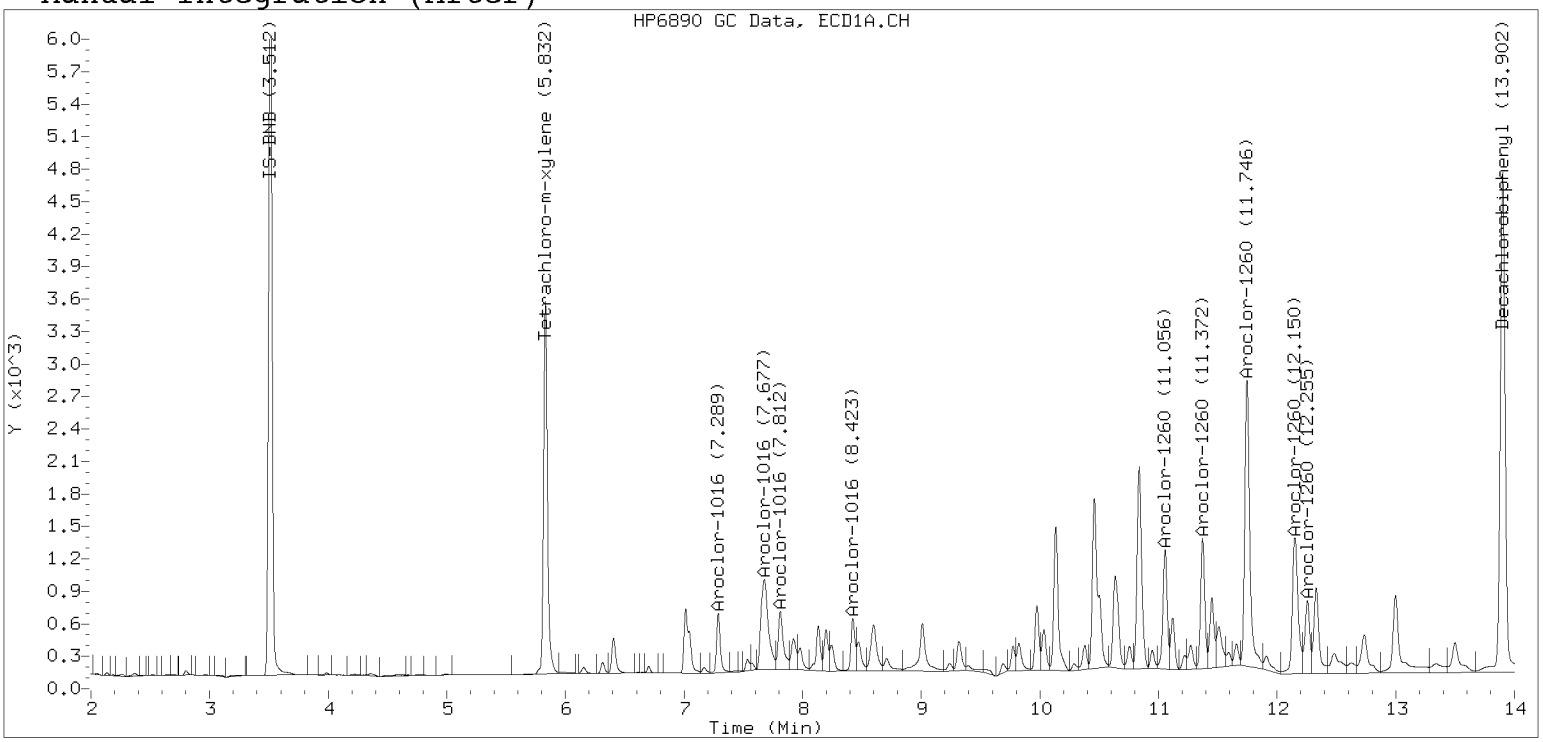


ZB-35 Manual Integration: NO

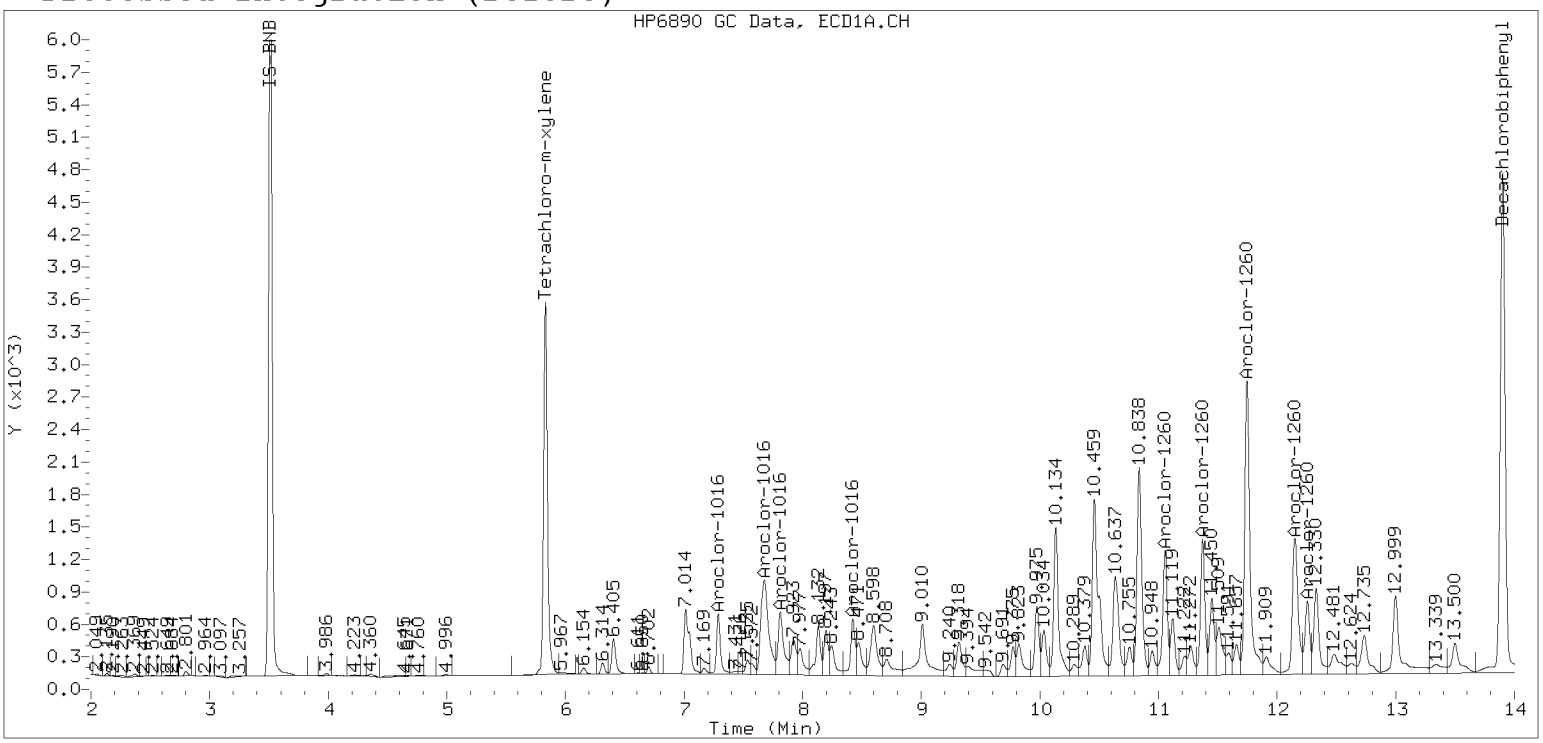
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221229.b/12292246ECD7.D Injection Date: 30-DEC-2022 00:44

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292251ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCV7	Injection Time:	02:30
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	257	0.0490062	0.0520185		2.9	+/-20
Aroclor-1248 (1)	A	250.00	278		0.0383071			
Aroclor-1248 (2)	A	250.00	296		0.0519909			
Aroclor-1248 (3)	A	250.00	294		0.0927749			
Aroclor-1248 (4)	A	250.00	161		0.0250012			
Aroclor 1248 [2C]	A	250.00	253	0.0394876	0.0403169		1.0	+/-20
Aroclor-1248 (1) [2C]	A	250.00	262		0.0342513			
Aroclor-1248 (2) [2C]	A	250.00	200		0.0274504			
Aroclor-1248 (3) [2C]	A	250.00	278		0.0465313			
Aroclor-1248 (4) [2C]	A	250.00	270		0.0530344			
Decachlorobiphenyl	A	40.000	42.0	0.7333327	0.7699823		5.0	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0549920		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1518430		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.2	1.0966080	1.0462730		-4.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292251ECD7.D
Data file 2: /221229.b/221229.b/12292251ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 30-DEC-2022 02:30
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	201860	5.708	-0.000	133732	37.2	38.2	2.5	Tetrachloro-m-xylene
13.904	0.001	361206	14.128	-0.001	263677	42.0	40.6	3.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	382676	-14.5
Hexabromobiphenyl	798898	938219	17.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255635	2.6
Hexabromobiphenyl	362541	457835	26.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	0.000	45810	278.4	1	8.321	0.000	27362	262.0
Aroclor-1248	2	8.598	0.000	62174	296.0	2	8.727	0.000	21929	199.6
Aroclor-1248	3	9.018	0.000	110946	293.6	3	9.172	0.000	37172	278.2
Aroclor-1248	4	9.310	0.000	29898	161.5	4	9.593	0.000	42367	270.1
Total Col1Ave (4 peaks):					257.4	Total Col2Ave (4 peaks):				252.5 RPD = 2
Corrected Ave (3 peaks):					244.5	Corrected Ave (3 peaks):				243.9 RPD = 0
CalAmt %D:					2.9	CalAmt %D:				1.0

Total PCB Area Col1 (5.932 - 13.803) = 1012009 Col1 Total PCB = 0.3 ppm*

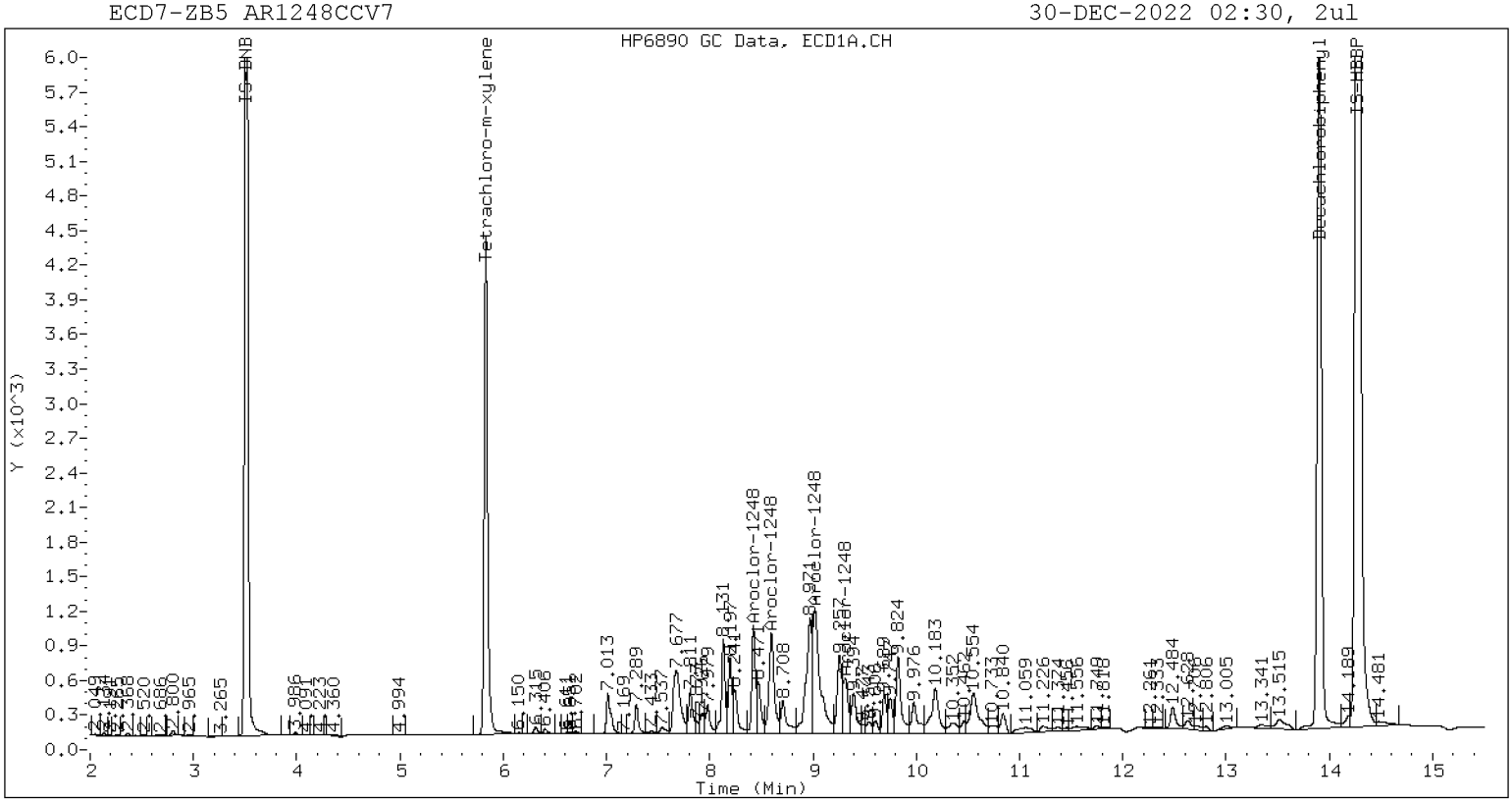
Total PCB Area Col2 (5.808 - 14.029) = 529928 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

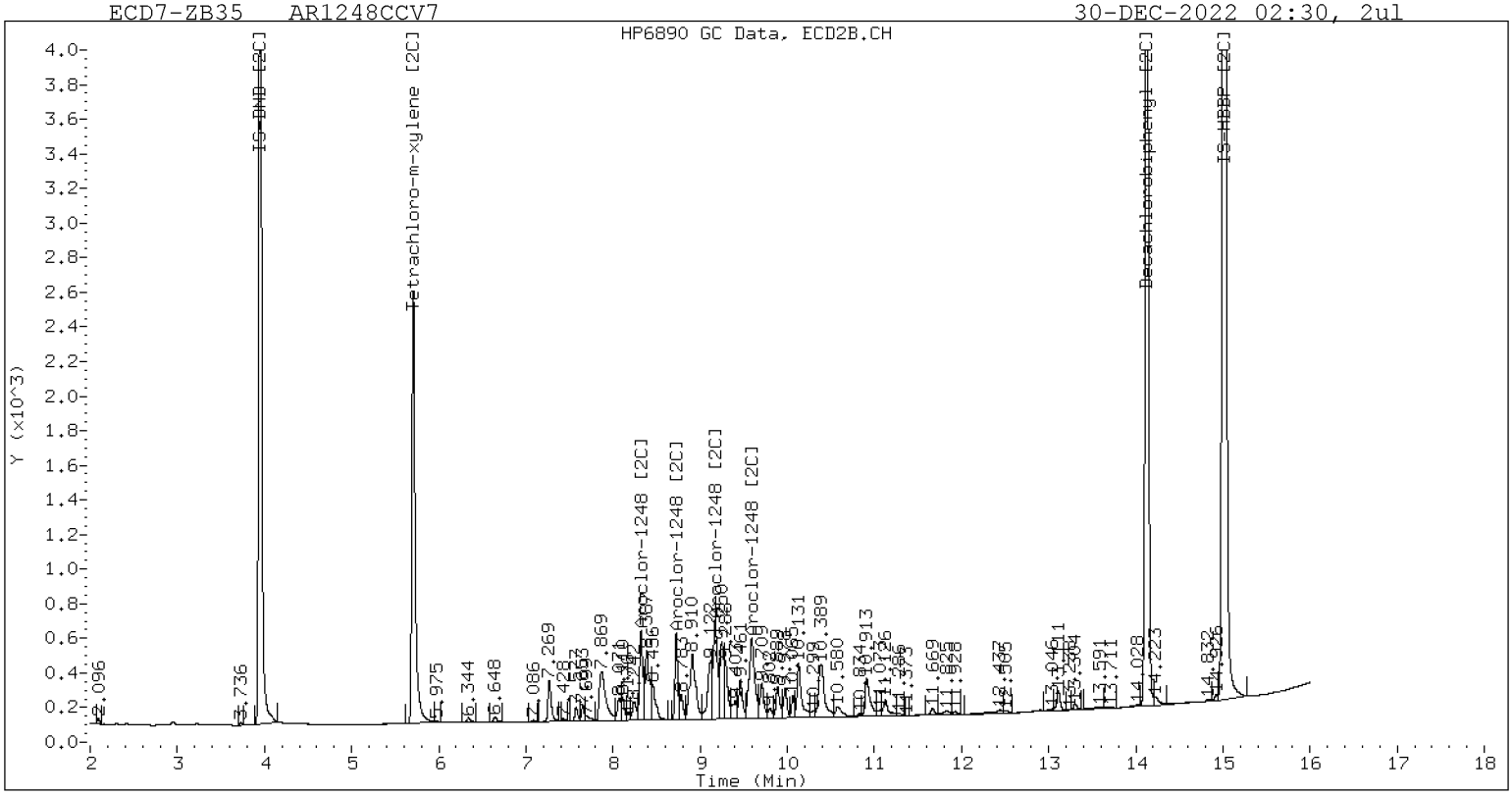
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 30-DEC-2022 02:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 30-DEC-2022 02:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292252ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCV8	Injection Time:	02:51
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	259	0.0441939	0.0456245		3.6	+/-20
Aroclor-1016 (1)	A	250.00	249	0.0266860	0.0265620		-0.4	
Aroclor-1016 (2)	A	250.00	255	0.0861572	0.0879078		2.0	
Aroclor-1016 (3)	A	250.00	266	0.0390425	0.0415929		6.4	
Aroclor-1016 (4)	A	250.00	266	0.0248899	0.0264352		6.4	
Aroclor 1016 [2C]	A	250.00	244	0.0467310	0.0432461		-2.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	255	0.0409030	0.0416582		2.0	
Aroclor-1016 (2) [2C]	A	250.00	205	0.0882154	0.0725033		-18.0	
Aroclor-1016 (3) [2C]	A	250.00	248	0.0378846	0.0376165		-0.8	
Aroclor-1016 (4) [2C]	A	250.00	266	0.0199212	0.0212064		6.4	
Aroclor 1260	A	250.00	243	0.0390342	0.0376374		-3.0	+/-20
Aroclor-1260 (1)	A	250.00	240	0.0291201	0.0279728		-4.0	
Aroclor-1260 (2)	A	250.00	241	0.0301181	0.0290225		-3.6	
Aroclor-1260 (3)	A	250.00	242	0.0791351	0.0765147		-3.2	
Aroclor-1260 (4)	A	250.00	234	0.0403003	0.0377991		-6.4	
Aroclor-1260 (5)	A	250.00	256	0.0164974	0.0168778		2.4	
Aroclor 1260 [2C]	A	250.00	203	0.0617619	0.0461782		-19.0	+/-20
Aroclor-1260 (1) [2C]	A	250.00	227	0.0422283	0.0383261		-9.2	
Aroclor-1260 (2) [2C]	A	250.00	161	0.1059643	0.0681525		-35.6	
Aroclor-1260 (3) [2C]	A	250.00	242	0.0282173	0.0273664		-3.2	
Aroclor-1260 (4) [2C]	A	250.00	180	0.0706376	0.0508677		-28.0	
Decachlorobiphenyl	A	40.000	43.9	0.7333327	0.8045295		9.8	+/-20
Tetrachlorometaxylene	A	40.000	40.0	1.1336710	1.1348640		0.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1631830		2.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.7	1.0966080	1.1155280		1.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292252ECD7.D
Data file 2: /221229.b/221229.b/12292252ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 30-DEC-2022 02:51
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	158965	5.709	0.001	105013	40.0	40.7	1.6	Tetrachloro-m-xylene
13.903	-0.000	288670	14.127	-0.002	198817	43.9	41.0	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	280148	-37.4
Hexabromobiphenyl	798898	717612	-10.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	188275	-24.4
Hexabromobiphenyl	362541	341850	-5.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.001	23254	248.8	1	7.271	-0.000	24510	254.6
Aroclor-1016	2	7.675	-0.003	76960	255.1	2	7.871	-0.003	42658	205.5
Aroclor-1016	3	7.811	-0.002	36413	266.3	3	8.070	0.000	22132	248.2
Aroclor-1016	4	8.423	-0.000	23143	265.5	4	8.240	-0.002	12477	266.1
Total Col1Ave (4 peaks):					258.9	Total Col2Ave (4 peaks):				243.6 RPD = 6
Corrected Ave (3 peaks):					256.5	Corrected Ave (3 peaks):				236.1 RPD = 8
CalAmt %D:					3.6	CalAmt %D:				-2.6
Aroclor-1260	1	11.055	-0.001	62730	240.2	1	11.662	0.000	40943	226.9
Aroclor-1260	2	11.372	-0.000	65084	240.9	2	11.925	-0.000	72806	160.8
Aroclor-1260	3	11.745	-0.000	171587	241.7	3	12.443	-0.002	29235	242.5
Aroclor-1260	4	12.150	-0.001	84766	234.5	4	12.508	-0.001	54341	180.0
Aroclor-1260	5	12.255	-0.001	37849	255.8	NS	---			----
Total Col1Ave (5 peaks):					242.6	Total Col2Ave (4 peaks):				202.5 RPD = 18
Corrected Ave (4 peaks):					239.3	Corrected Ave (3 peaks):				189.2 RPD = 23
CalAmt %D:					-3.0	CalAmt %D:				-19.0

Total PCB Area Col1 (5.932 - 13.803) = 1708396 Col1 Total PCB = 0.6 ppm*

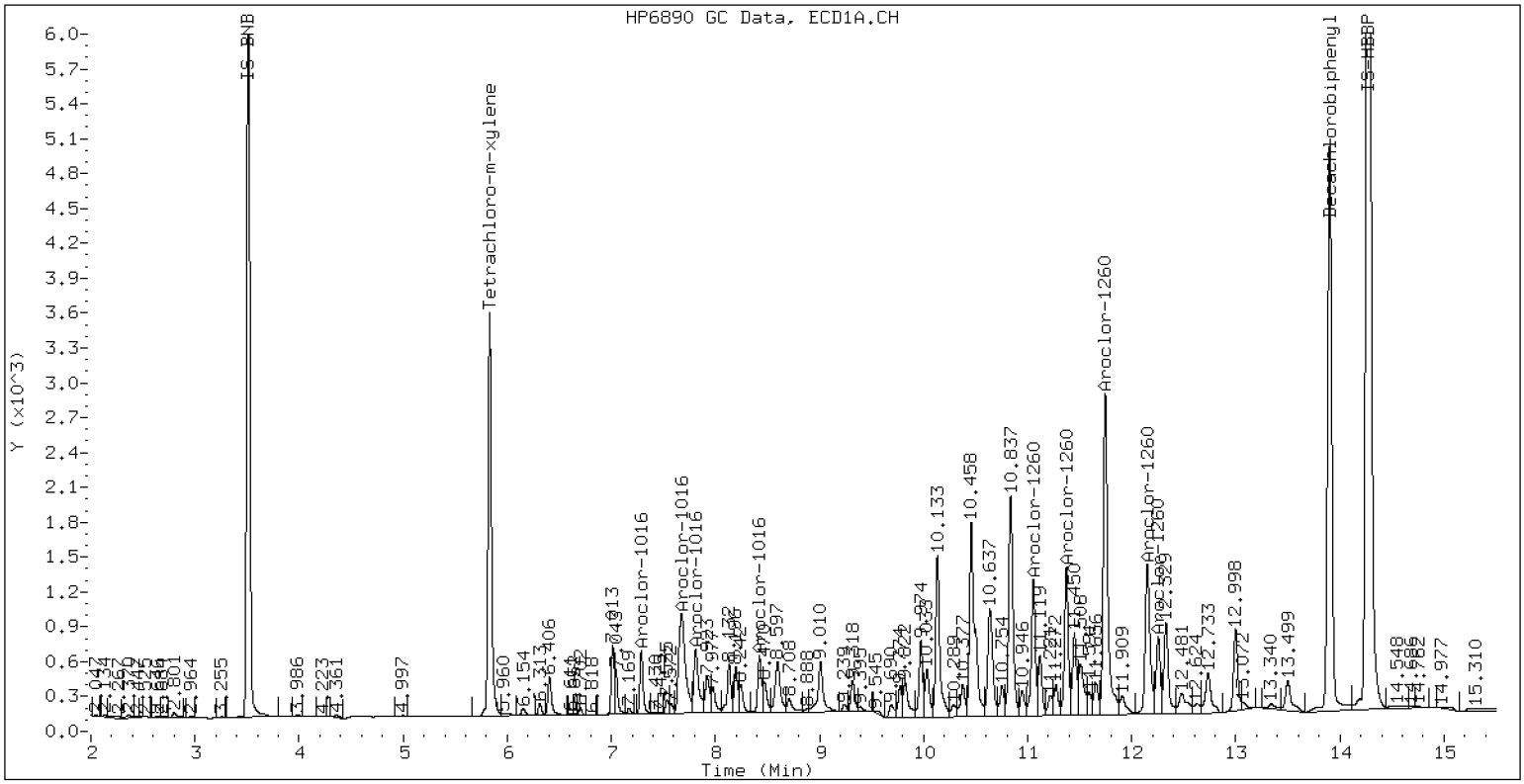
Total PCB Area Col2 (5.808 - 14.029) = 894442 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

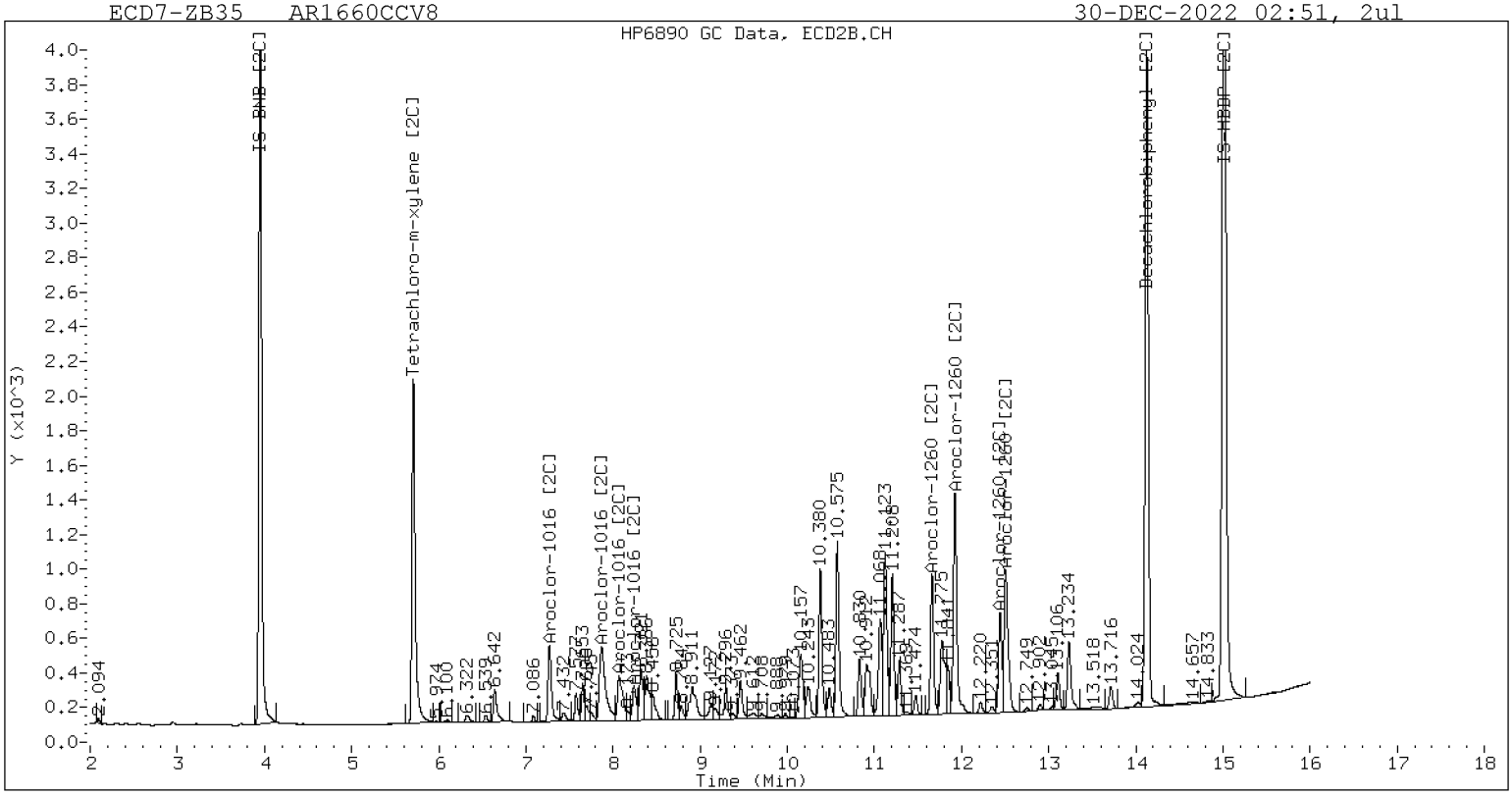
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 30-DEC-2022 02:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 30-DEC-2022 02:51, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292263ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCV9	Injection Time:	06:43
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	268	0.0396000	0.0425619		7.3	+/-20
Aroclor-1242 (1)	A	250.00	255		0.0231328			
Aroclor-1242 (2)	A	250.00	259		0.0745530			
Aroclor-1242 (3)	A	250.00	265		0.0219911			
Aroclor-1242 (4)	A	250.00	294		0.0505709			
Aroclor 1242 [2C]	A	250.00	259	0.0391981	0.0380302		3.5	+/-20
Aroclor-1242 (1) [2C]	A	250.00	261		0.0354052			
Aroclor-1242 (2) [2C]	A	250.00	203		0.0584002			
Aroclor-1242 (3) [2C]	A	250.00	284		0.0262997			
Aroclor-1242 (4) [2C]	A	250.00	287		0.0320156			
Decachlorobiphenyl	A	40.000	40.8	0.7333327	0.7471282		2.0	+/-20
Tetrachlorometaxylene	A	40.000	38.5	1.1336710	1.0921070		-3.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.1	1.1358180	1.1676530		2.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.7	1.0966080	1.0603390		-3.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292263ECD7.D
Data file 2: /221229.b/221229.b/12292263ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 30-DEC-2022 06:43
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	193600	5.709	0.000	127984	38.5	38.7	0.4	Tetrachloro-m-xylene
13.903	-0.000	315281	14.128	-0.001	238040	40.8	41.1	0.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	354544	-20.8
Hexabromobiphenyl	798898	843981	5.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	241402	-3.1
Hexabromobiphenyl	362541	407724	12.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1242	1	7.290	0.000	25630	255.0	1	7.272	0.000	26709	261.4
Aroclor-1242	2	7.676	0.000	82601	258.9	2	7.871	0.000	44056	203.1
Aroclor-1242	3	8.423	0.000	24365	265.4	3	9.170	0.000	19840	283.5
Aroclor-1242	4	9.024	0.000	56030	293.9	4	9.589	0.000	24152	287.2
Total Col1Ave (4 peaks):					268.3	Total Col2Ave (4 peaks):				258.8 RPD = 4
Corrected Ave (3 peaks):					259.8	Corrected Ave (3 peaks):				249.4 RPD = 4
CalAmt %D:					7.3	CalAmt %D:				3.5

Total PCB Area Col1 (5.932 - 13.803) = 808373 Col1 Total PCB = 0.2 ppm*

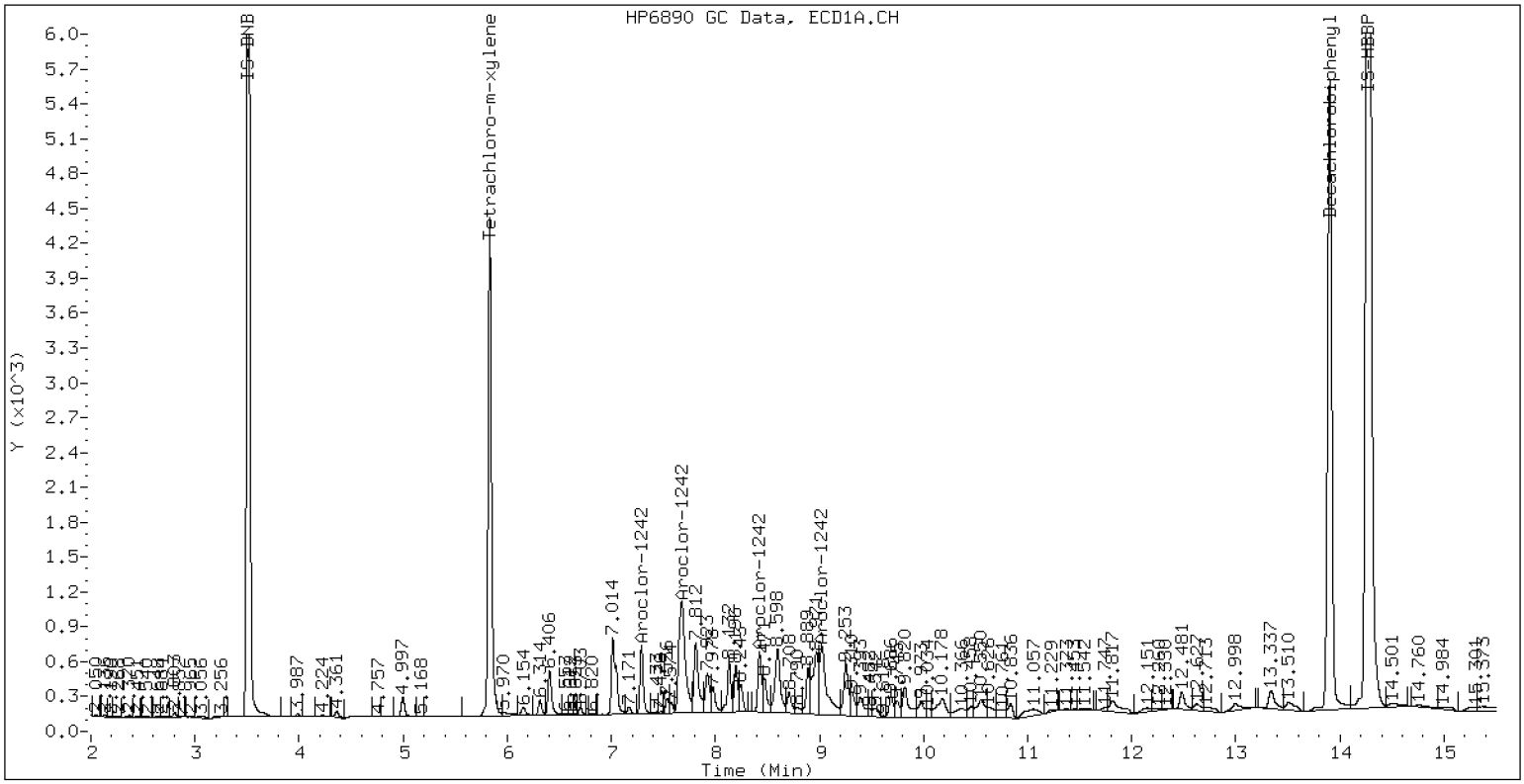
Total PCB Area Col2 (5.808 - 14.029) = 418299 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

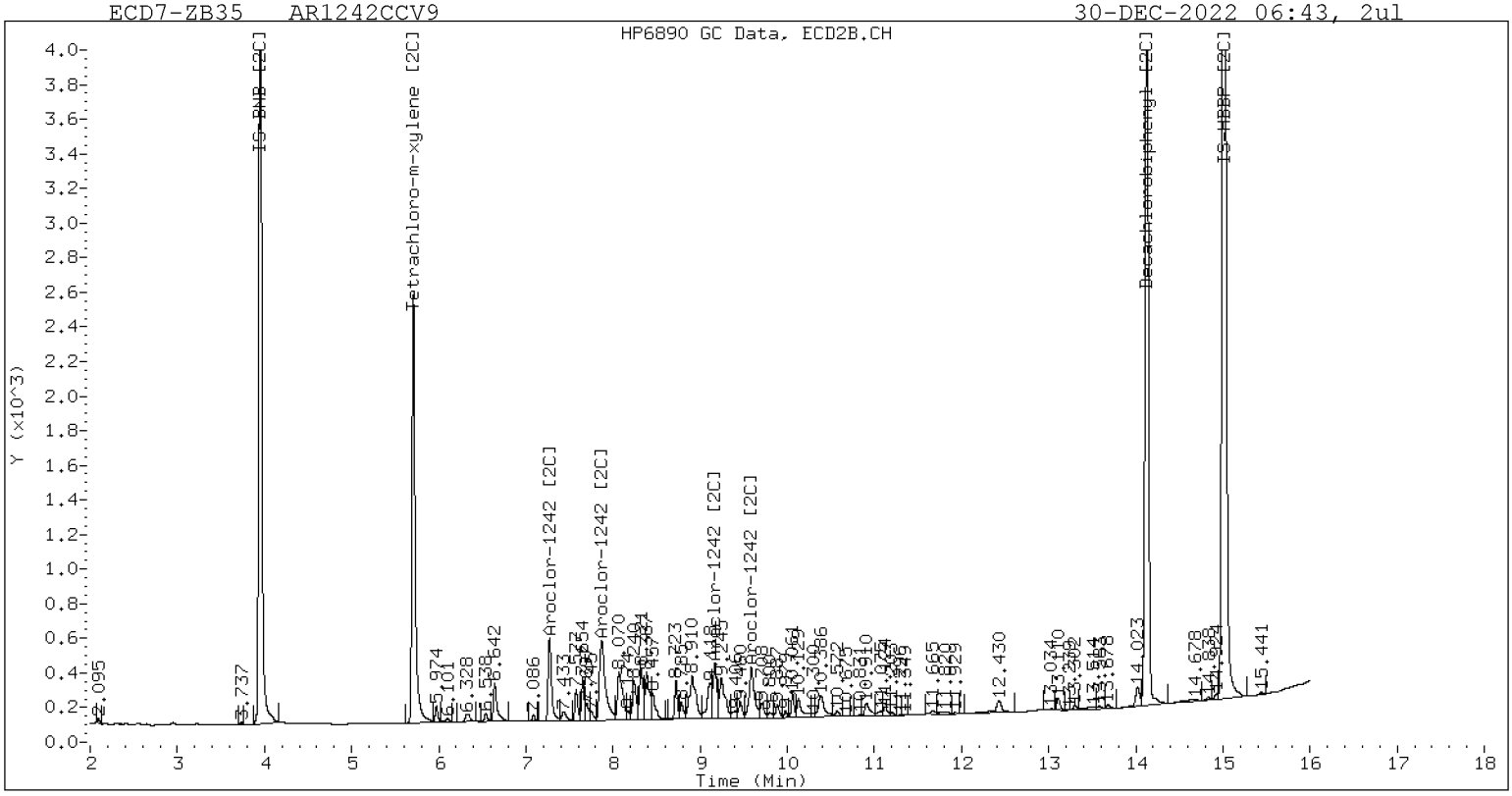
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 30-DEC-2022 06:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV9 30-DEC-2022 06:43, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292264ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCVA	Injection Time:	07:04
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	248	0.0441939	0.0432933		-0.9	+/-20
Aroclor-1016 (1)	A	250.00	252	0.0266860	0.0269138		0.8	
Aroclor-1016 (2)	A	250.00	239	0.0861572	0.0824197		-4.4	
Aroclor-1016 (3)	A	250.00	246	0.0390425	0.0385028		-1.6	
Aroclor-1016 (4)	A	250.00	254	0.0248899	0.0253369		1.6	
Aroclor 1016 [2C]	A	250.00	236	0.0467310	0.0418031		-5.8	+/-20
Aroclor-1016 (1) [2C]	A	250.00	242	0.0409030	0.0396497		-3.2	
Aroclor-1016 (2) [2C]	A	250.00	199	0.0882154	0.0703359		-20.4	
Aroclor-1016 (3) [2C]	A	250.00	240	0.0378846	0.0363913		-4.0	
Aroclor-1016 (4) [2C]	A	250.00	261	0.0199212	0.0208352		4.4	
Aroclor 1260	A	250.00	264	0.0390342	0.0408885		5.6	+/-20
Aroclor-1260 (1)	A	250.00	261	0.0291201	0.0303588		4.4	
Aroclor-1260 (2)	A	250.00	262	0.0301181	0.0315273		4.8	
Aroclor-1260 (3)	A	250.00	262	0.0791351	0.0829720		4.8	
Aroclor-1260 (4)	A	250.00	255	0.0403003	0.0411349		2.0	
Aroclor-1260 (5)	A	250.00	280	0.0164974	0.0184496		12.0	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0471404		-17.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	231	0.0422283	0.0390750		-7.6	
Aroclor-1260 (2) [2C]	A	250.00	164	0.1059643	0.0697420		-34.4	
Aroclor-1260 (3) [2C]	A	250.00	247	0.0282173	0.0279231		-1.2	
Aroclor-1260 (4) [2C]	A	250.00	183	0.0706376	0.0518215		-26.8	
Decachlorobiphenyl	A	40.000	45.8	0.7333327	0.8391632		14.5	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1040290		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.4	1.1358180	1.1767920		3.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.0966080	1.0812390		-1.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292264ECD7.D
Data file 2: /221229.b/221229.b/12292264ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 30-DEC-2022 07:04
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	156936	5.709	0.000	102735	39.0	39.4	1.2	Tetrachloro-m-xylene
13.902	-0.001	284491	14.128	-0.001	202150	45.8	41.4	9.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	284297	-36.5
Hexabromobiphenyl	798898	678035	-15.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	190032	-23.7
Hexabromobiphenyl	362541	343561	-5.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	23911	252.1	1	7.272	0.001	23546	242.3
Aroclor-1016	2	7.677	-0.001	73224	239.2	2	7.872	-0.001	41769	199.3
Aroclor-1016	3	7.812	-0.000	34207	246.5	3	8.071	0.002	21611	240.1
Aroclor-1016	4	8.423	0.000	22510	254.5	4	8.242	-0.000	12373	261.5
Total Col1Ave (4 peaks):					248.1	Total Col2Ave (4 peaks):				235.8 RPD = 5
Corrected Ave (3 peaks):					245.9	Corrected Ave (3 peaks):				227.3 RPD = 8
CalAmt %D:					-0.8	CalAmt %D:				-5.7
Aroclor-1260	1	11.055	-0.001	64326	260.6	1	11.662	0.000	41952	231.3
Aroclor-1260	2	11.373	0.000	66802	261.7	2	11.924	-0.001	74877	164.5
Aroclor-1260	3	11.747	0.001	175806	262.1	3	12.443	-0.001	29979	247.4
Aroclor-1260	4	12.150	-0.002	87159	255.2	4	12.509	0.000	55637	183.4
Aroclor-1260	5	12.255	-0.001	39092	279.6	NS	---			----
Total Col1Ave (5 peaks):					263.8	Total Col2Ave (4 peaks):				206.7 RPD = 24
Corrected Ave (4 peaks):					259.9	Corrected Ave (3 peaks):				193.1 RPD = 29
CalAmt %D:					5.5	CalAmt %D:				-17.3

Total PCB Area Col1 (5.932 - 13.803) = 1754854 Col1 Total PCB = 0.6 ppm*

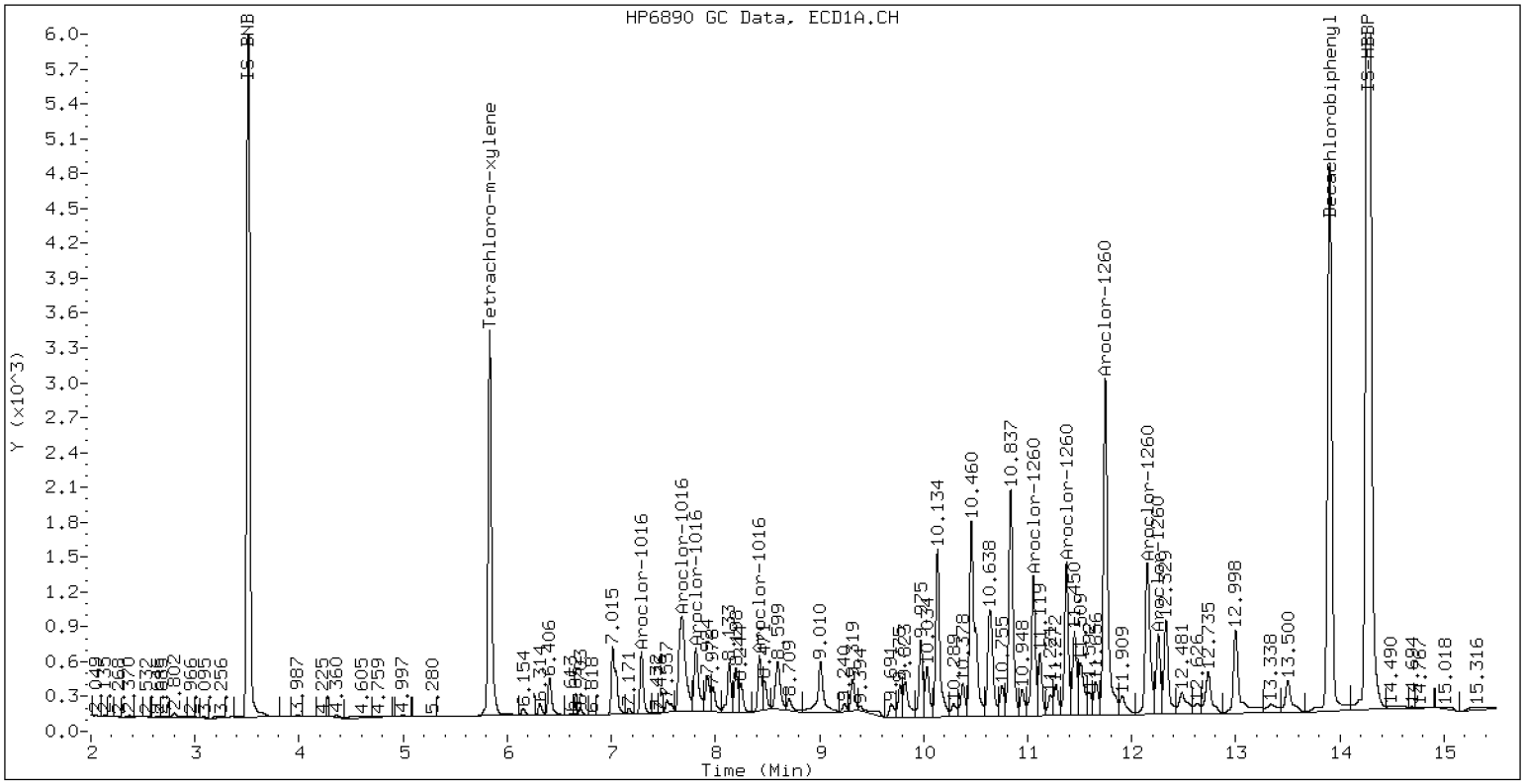
Total PCB Area Col2 (5.808 - 14.029) = 898549 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

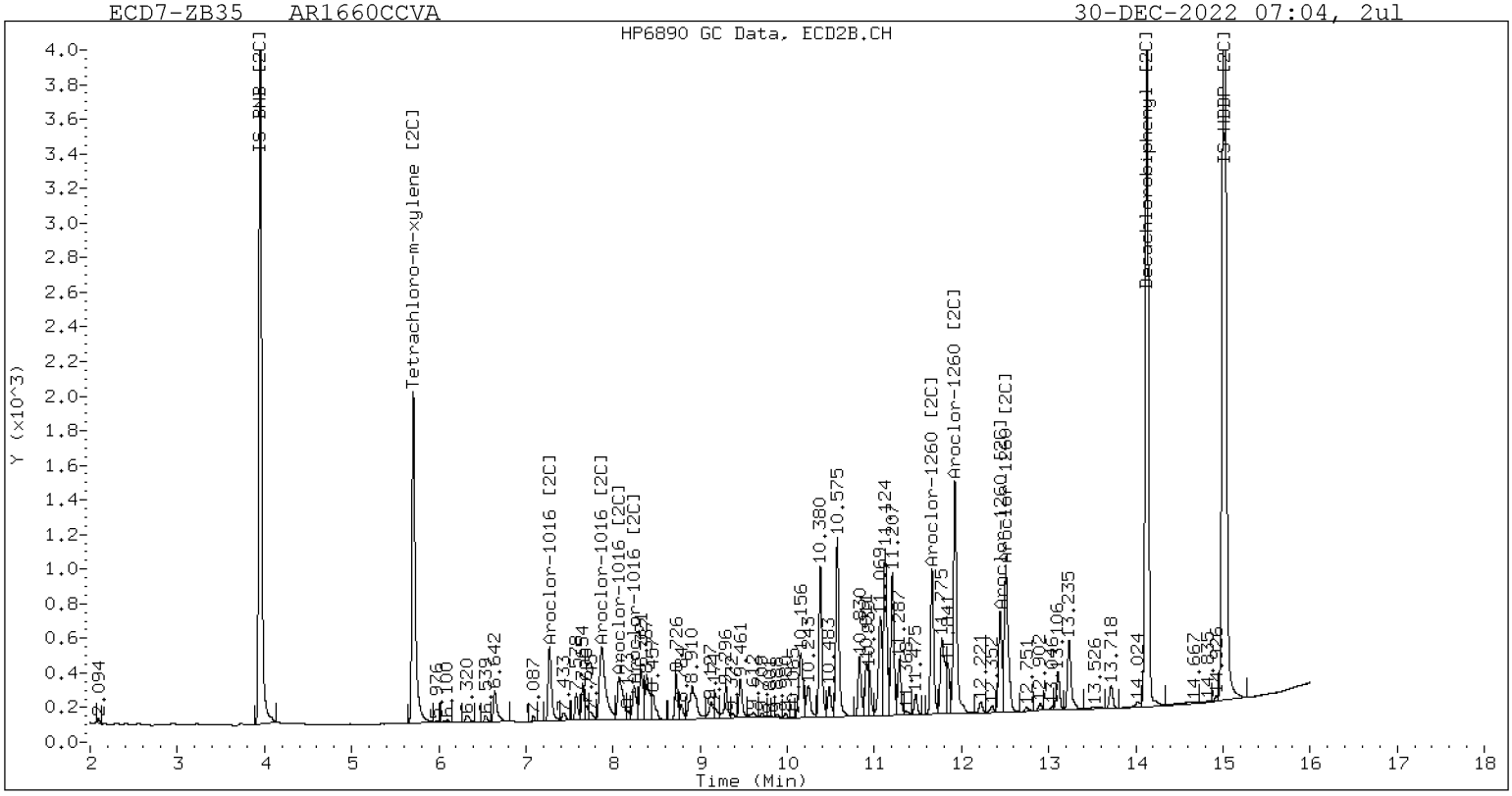
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 30-DEC-2022 07:04, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCVA 30-DEC-2022 07:04, 2ul

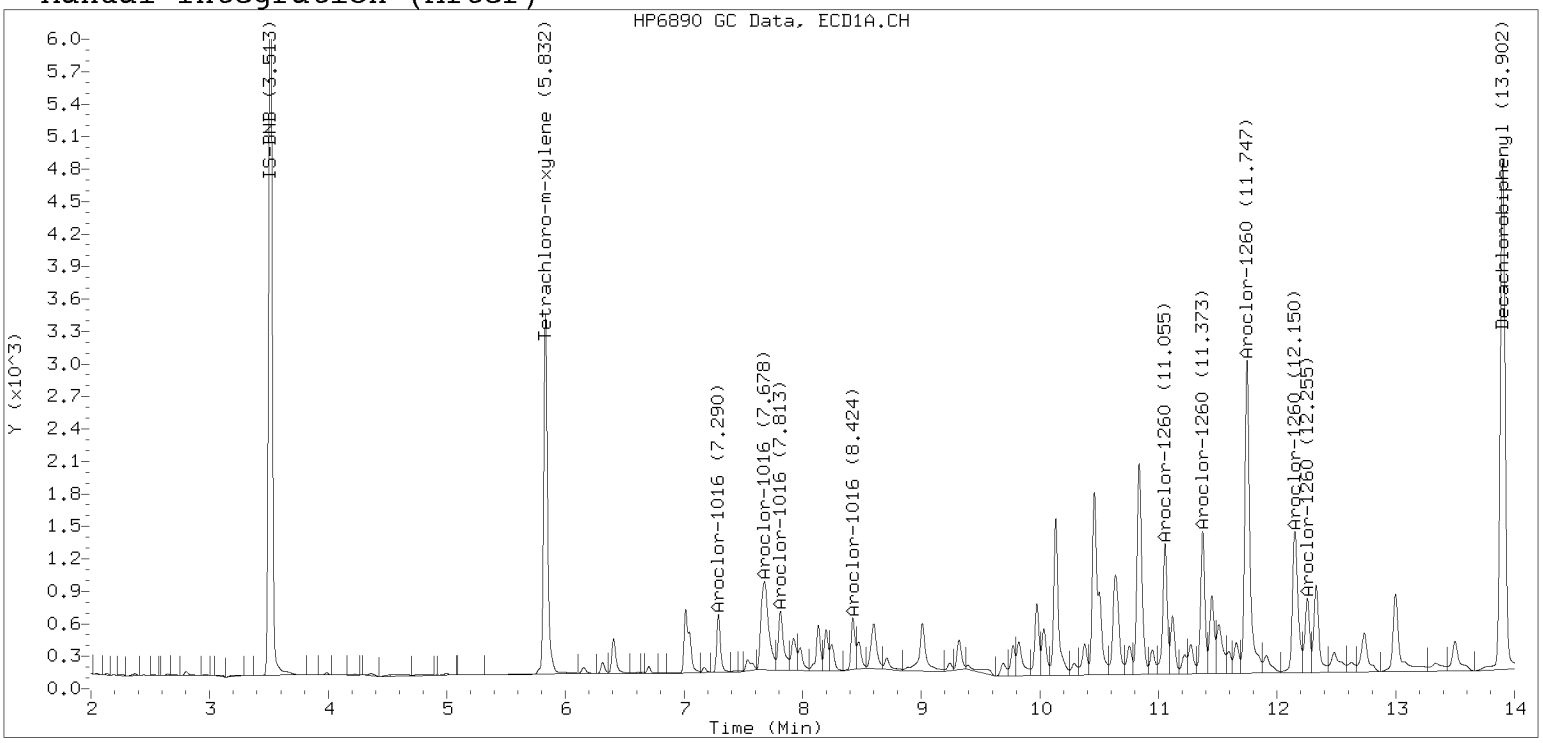


ZB-35 Manual Integration: NO

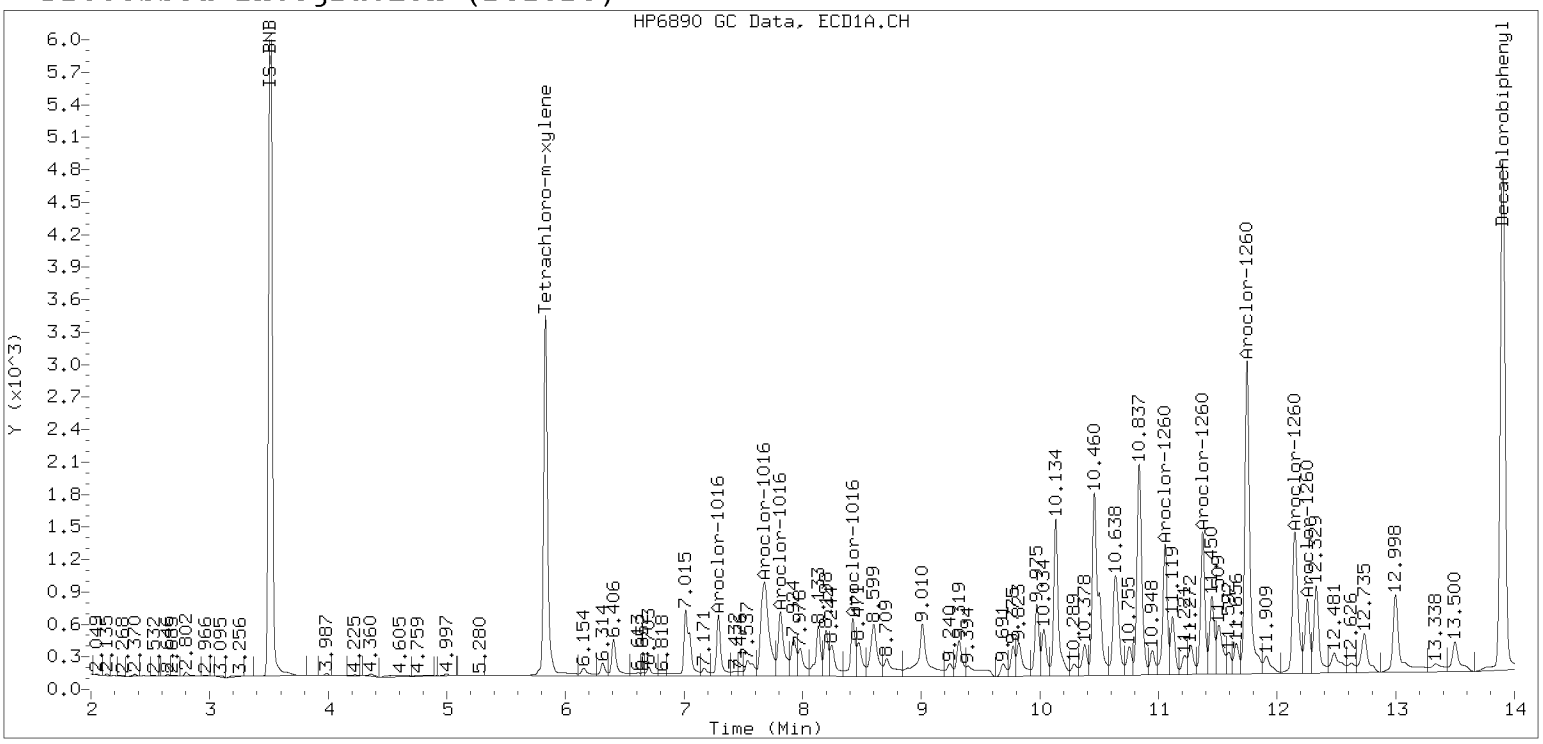
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221229.b/12292264ECD7.D Injection Date: 30-DEC-2022 07:04

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292269ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCVB	Injection Time:	08:50
Sequence Name:	AR1254CCVB		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	262	0.0576965	0.0611726		4.7	+/-20
Aroclor-1254 (1)	A	250.00	244		0.0687565			
Aroclor-1254 (2)	A	250.00	269		0.0294527			
Aroclor-1254 (3)	A	250.00	216		0.0385063			
Aroclor-1254 (4)	A	250.00	285		0.0989397			
Aroclor-1254 (5)	A	250.00	295		0.0702077			
Aroclor 1254 [2C]	A	250.00	239	0.0638047	0.0621371		-4.6	+/-20
Aroclor-1254 (1) [2C]	A	250.00	239		0.0492379			
Aroclor-1254 (2) [2C]	A	250.00	168		0.0277879			
Aroclor-1254 (3) [2C]	A	250.00	223		0.0795295			
Aroclor-1254 (4) [2C]	A	250.00	281		0.1039279			
Aroclor-1254 (5) [2C]	A	250.00	282		0.0502025			
Decachlorobiphenyl	A	40.000	42.5	0.7333327	0.7790127		6.3	+/-20
Tetrachlorometaxylene	A	40.000	35.6	1.1336710	1.0087590		-11.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1527610		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.4	1.0966080	0.9705859		-11.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292269ECD7.D
Data file 2: /221229.b/221229.b/12292269ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCVB
Client ID:
Injection Date: 30-DEC-2022 08:50
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	197741	5.708	-0.000	128145	35.6	35.4	0.5	Tetrachloro-m-xylene
13.903	-0.000	347569	14.127	-0.002	259456	42.5	40.6	4.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	392048	-12.4
Hexabromobiphenyl	798898	892332	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	264057	6.0
Hexabromobiphenyl	362541	450147	24.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	0.000	84237	244.0	1	9.460	0.000	40630	238.6
Aroclor-1254	2	9.393	0.000	36084	268.8	2	9.978	0.000	22930	167.5
Aroclor-1254	3	9.686	0.000	47176	216.4	3	10.129	0.000	65626	223.1
Aroclor-1254	4	9.820	0.000	121216	285.2	4	10.378	0.000	85759	281.5
Aroclor-1254	5	10.176	0.000	86015	295.3	5	10.575	0.000	41426	281.9
	Total Col1Ave (5 peaks):			261.9		Total Col2Ave (5 peaks):			238.5	RPD = 9
	Corrected Ave (4 peaks):			253.6		Corrected Ave (4 peaks):			227.7	RPD = 11
			CalAmt %D:	4.8				CalAmt %D:	-4.6	

Total PCB Area Col1 (5.932 - 13.803) = 1281319 Col1 Total PCB = 0.3 ppm*

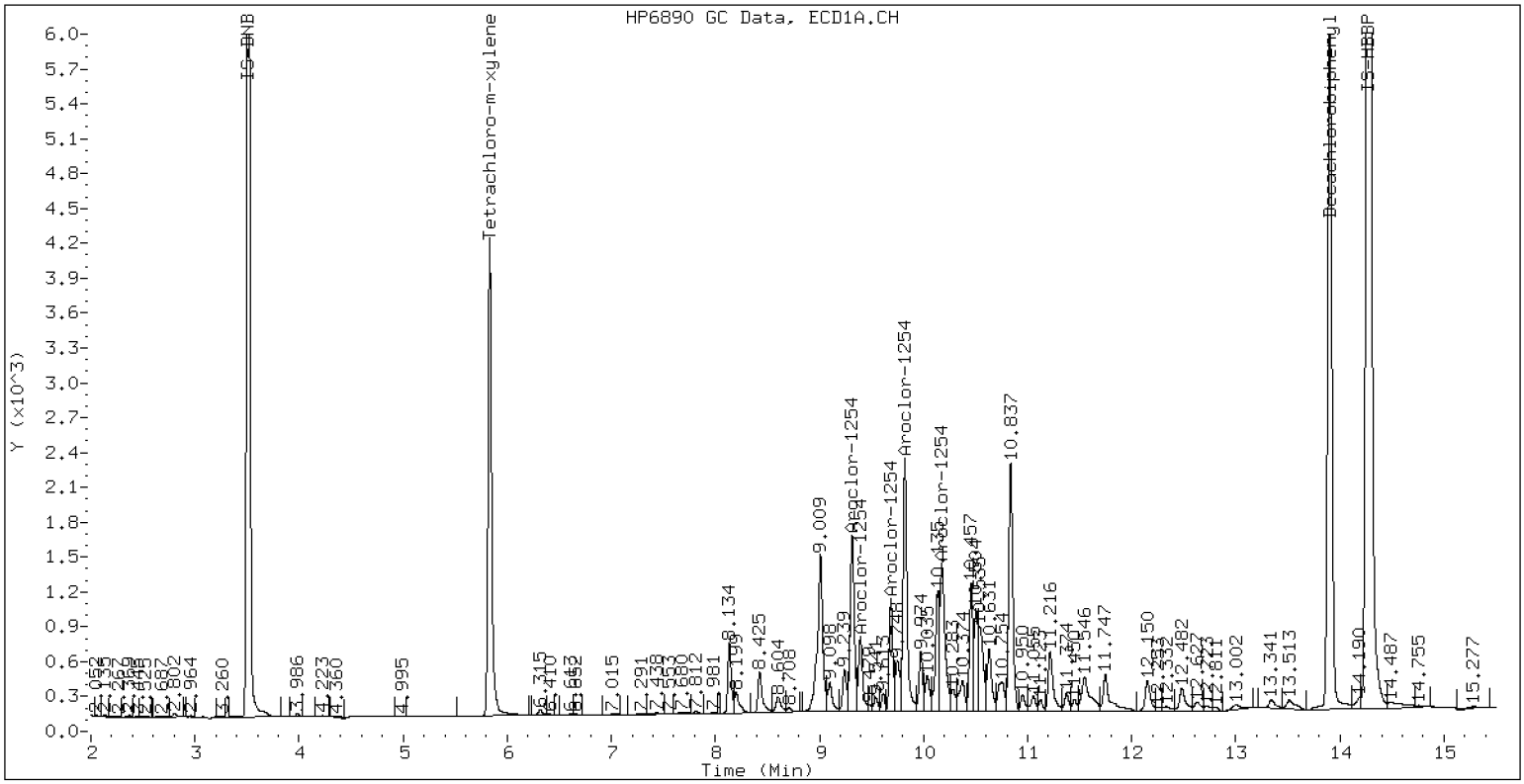
Total PCB Area Col2 (5.808 - 14.029) = 745119 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

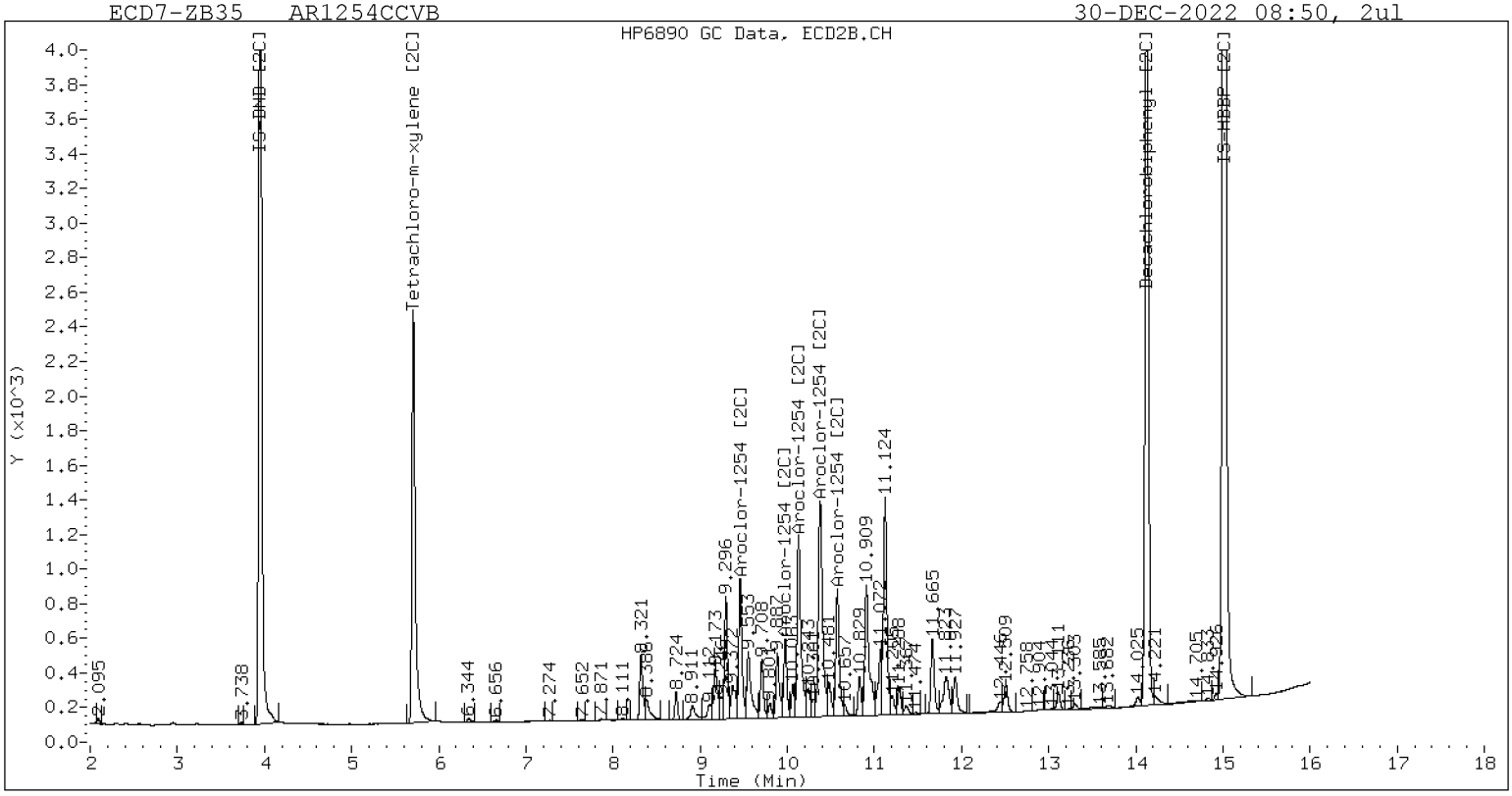
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCVB 30-DEC-2022 08:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCVB 30-DEC-2022 08:50, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12292270ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0370	Injection Date:	12/30/22
Lab Sample ID:	SKL0370-CCVC	Injection Time:	09:11
Sequence Name:	AR1660CCVC		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	263	0.0441939	0.0460491		5.1	+/-20
Aroclor-1016 (1)	A	250.00	259	0.0266860	0.0276863		3.6	
Aroclor-1016 (2)	A	250.00	255	0.0861572	0.0878764		2.0	
Aroclor-1016 (3)	A	250.00	268	0.0390425	0.0418720		7.2	
Aroclor-1016 (4)	A	250.00	269	0.0248899	0.0267617		7.6	
Aroclor 1016 [2C]	A	250.00	237	0.0467310	0.0418947		-5.4	+/-20
Aroclor-1016 (1) [2C]	A	250.00	243	0.0409030	0.0397940		-2.8	
Aroclor-1016 (2) [2C]	A	250.00	199	0.0882154	0.0701782		-20.4	
Aroclor-1016 (3) [2C]	A	250.00	242	0.0378846	0.0367517		-3.2	
Aroclor-1016 (4) [2C]	A	250.00	262	0.0199212	0.0208550		4.8	
Aroclor 1260	A	250.00	253	0.0390342	0.0392512		1.4	+/-20
Aroclor-1260 (1)	A	250.00	250	0.0291201	0.0290784		0.0	
Aroclor-1260 (2)	A	250.00	250	0.0301181	0.0301484		0.0	
Aroclor-1260 (3)	A	250.00	252	0.0791351	0.0797122		0.8	
Aroclor-1260 (4)	A	250.00	246	0.0403003	0.0395899		-1.6	
Aroclor-1260 (5)	A	250.00	269	0.0164974	0.0177271		7.6	
Aroclor 1260 [2C]	A	250.00	204	0.0617619	0.0464393		-18.4	+/-20
Aroclor-1260 (1) [2C]	A	250.00	228	0.0422283	0.0385109		-8.8	
Aroclor-1260 (2) [2C]	A	250.00	162	0.1059643	0.0685899		-35.2	
Aroclor-1260 (3) [2C]	A	250.00	245	0.0282173	0.0276230		-2.0	
Aroclor-1260 (4) [2C]	A	250.00	181	0.0706376	0.0510333		-27.6	
Decachlorobiphenyl	A	40.000	44.3	0.7333327	0.8118659		10.8	+/-20
Tetrachlorometaxylene	A	40.000	39.7	1.1336710	1.1255410		-0.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1571380		2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.8	1.0966080	1.0924360		-0.5	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221229.b/12292270ECD7.D
Data file 2: /221229.b/221229.b/12292270ECD7.D
Method: \\target\share\chem4\ecd7.i\221229.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVC
Client ID:
Injection Date: 30-DEC-2022 09:11
Report Date: 01/03/2023 11:19
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	159322	5.708	0.000	103818	39.7	39.8	0.3	Tetrachloro-m-xylene
13.903	0.000	288924	14.129	0.000	202863	44.3	40.8	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	283103	-36.8
Hexabromobiphenyl	798898	711753	-10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	190067	-23.7
Hexabromobiphenyl	362541	350629	-3.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.000	24494	259.4	1	7.271	0.000	23636	243.2
Aroclor-1016	2	7.678	0.000	77744	255.0	2	7.873	0.000	41683	198.9
Aroclor-1016	3	7.812	0.000	37044	268.1	3	8.070	0.000	21829	242.5
Aroclor-1016	4	8.423	0.000	23676	268.8	4	8.242	0.000	12387	261.7
Total Col1Ave (4 peaks):					262.8	Total Col2Ave (4 peaks):				236.6 RPD = 11
Corrected Ave (3 peaks):					260.8	Corrected Ave (3 peaks):				228.2 RPD = 13
CalAmt %D:					5.1	CalAmt %D:				-5.4
Aroclor-1260	1	11.056	0.000	64677	249.6	1	11.662	0.000	42197	228.0
Aroclor-1260	2	11.372	0.000	67057	250.3	2	11.925	0.000	75155	161.8
Aroclor-1260	3	11.746	0.000	177298	251.8	3	12.444	0.000	30267	244.7
Aroclor-1260	4	12.151	0.000	88057	245.6	4	12.509	0.000	55918	180.6
Aroclor-1260	5	12.256	0.000	39429	268.6	NS	---			----
Total Col1Ave (5 peaks):					253.2	Total Col2Ave (4 peaks):				203.8 RPD = 22
Corrected Ave (4 peaks):					249.3	Corrected Ave (3 peaks):				190.1 RPD = 27
CalAmt %D:					1.3	CalAmt %D:				-18.5

Total PCB Area Col1 (5.932 - 13.803) = 1781412 Col1 Total PCB = 0.7 ppm*

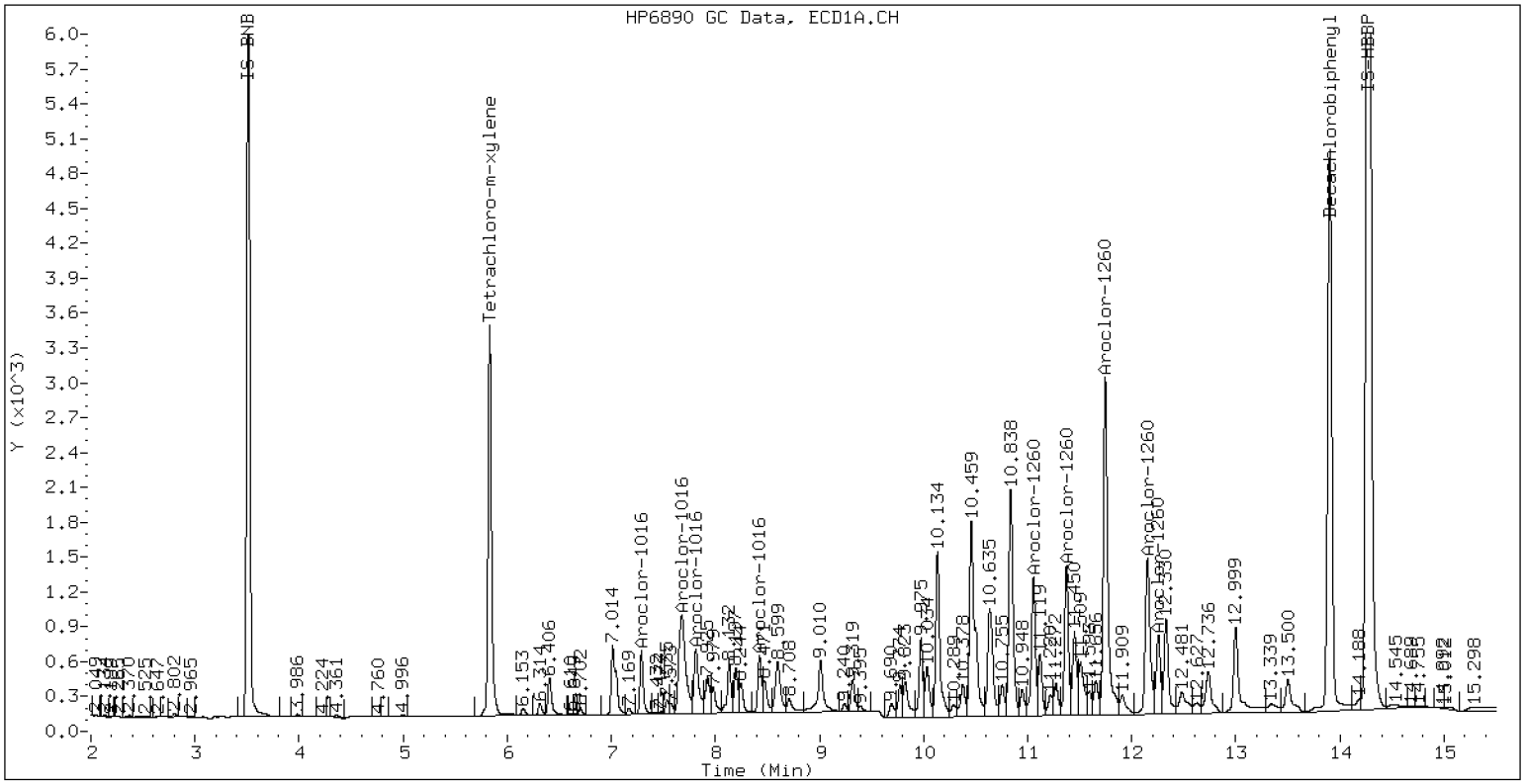
Total PCB Area Col2 (5.808 - 14.029) = 908175 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

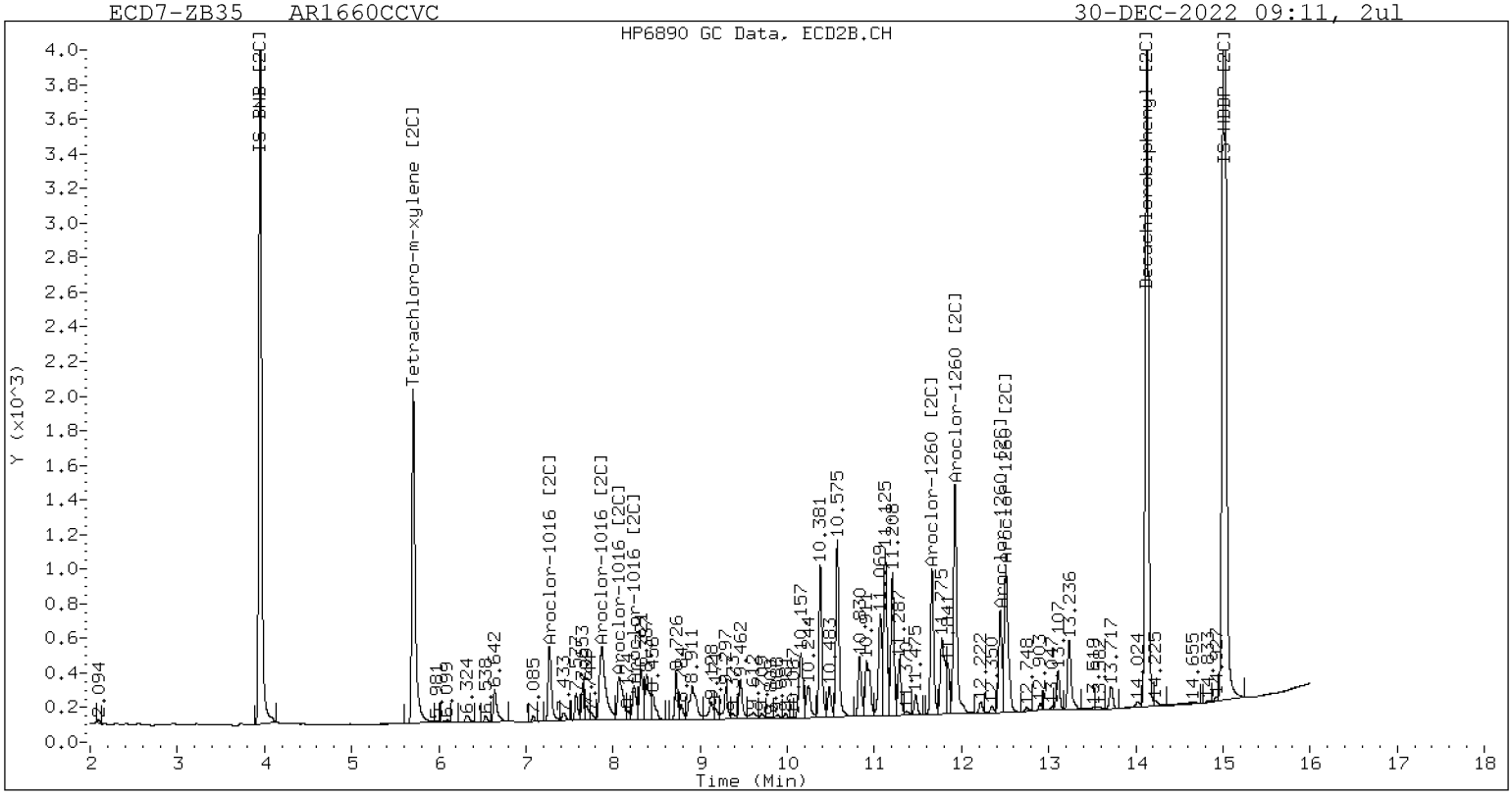
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVC 30-DEC-2022 09:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVC 30-DEC-2022 09:11, 2ul



ZB-35 Manual Integration: NO

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272215ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/27/22
Lab Sample ID:	SKL0377-CCV1	Injection Time:	21:35
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	262	0.0490062	0.0526895		4.8	+/-20
Aroclor-1248 (1)	A	250.00	281		0.0386253			
Aroclor-1248 (2)	A	250.00	298		0.0523434			
Aroclor-1248 (3)	A	250.00	293		0.0925327			
Aroclor-1248 (4)	A	250.00	176		0.0272566			
Aroclor 1248 [2C]	A	250.00	253	0.0394876	0.0403068		1.1	+/-20
Aroclor-1248 (1) [2C]	A	250.00	263		0.0343451			
Aroclor-1248 (2) [2C]	A	250.00	206		0.0283648			
Aroclor-1248 (3) [2C]	A	250.00	274		0.0458411			
Aroclor-1248 (4) [2C]	A	250.00	268		0.0526760			
Decachlorobiphenyl	A	40.000	41.7	0.7333327	0.7648914		4.3	+/-20
Tetrachlorometaxylene	A	40.000	37.4	1.1336710	1.0595010		-6.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.8	1.1358180	1.1866020		4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.2	1.0966080	1.0472910		-4.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272215ECD7.D
Data file 2: /221227.b/221227.b/12272215ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 27-DEC-2022 21:35
Report Date: 12/30/2022 14:45
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	194456	5.708	-0.001	125500	37.4	38.2	2.2	Tetrachloro-m-xylene
13.903	-0.000	337075	14.129	0.001	238593	41.7	41.8	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	367071	-18.0
Hexabromobiphenyl	798898	881367	10.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	239666	-3.8
Hexabromobiphenyl	362541	402145	10.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.422	-0.005	44307	280.7	1	8.321	-0.001	25723	262.7
Aroclor-1248	2	8.598	-0.007	60043	298.0	2	8.726	-0.001	21244	206.3
Aroclor-1248	3	9.015	-0.007	106144	292.8	3	9.172	-0.000	34333	274.1
Aroclor-1248	4	9.310	-0.002	31266	176.1	4	9.593	-0.001	39452	268.3
Total Col1Ave (4 peaks):					261.9	Total Col2Ave (4 peaks):				252.9 RPD = 4
Corrected Ave (3 peaks):					249.9	Corrected Ave (3 peaks):				245.8 RPD = 2
CalAmt %D:					4.8	CalAmt %D:				1.1

Total PCB Area Col1 (5.931 - 13.803) = 965245 Col1 Total PCB = 0.3 ppm*

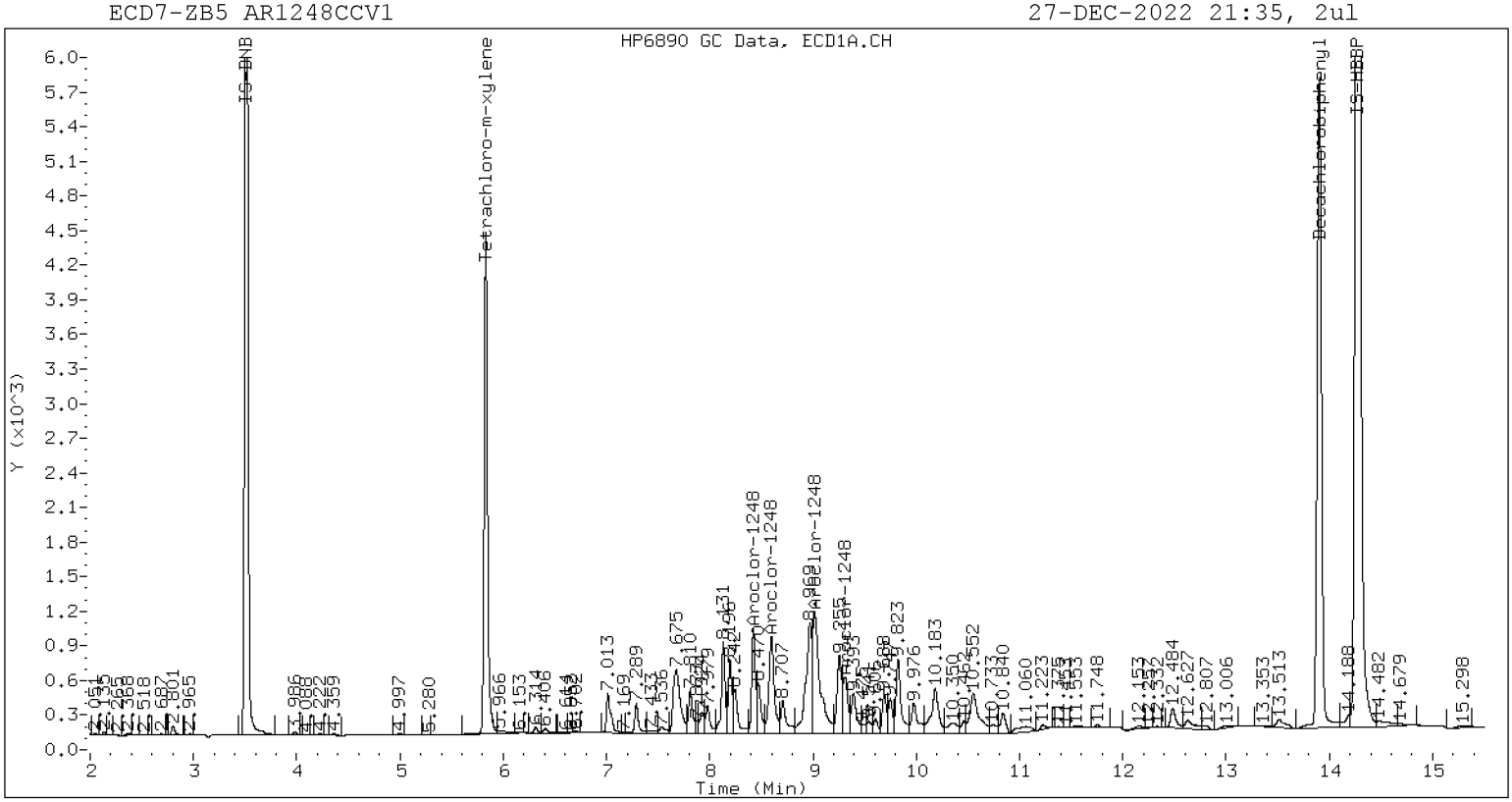
Total PCB Area Col2 (5.809 - 14.028) = 503123 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

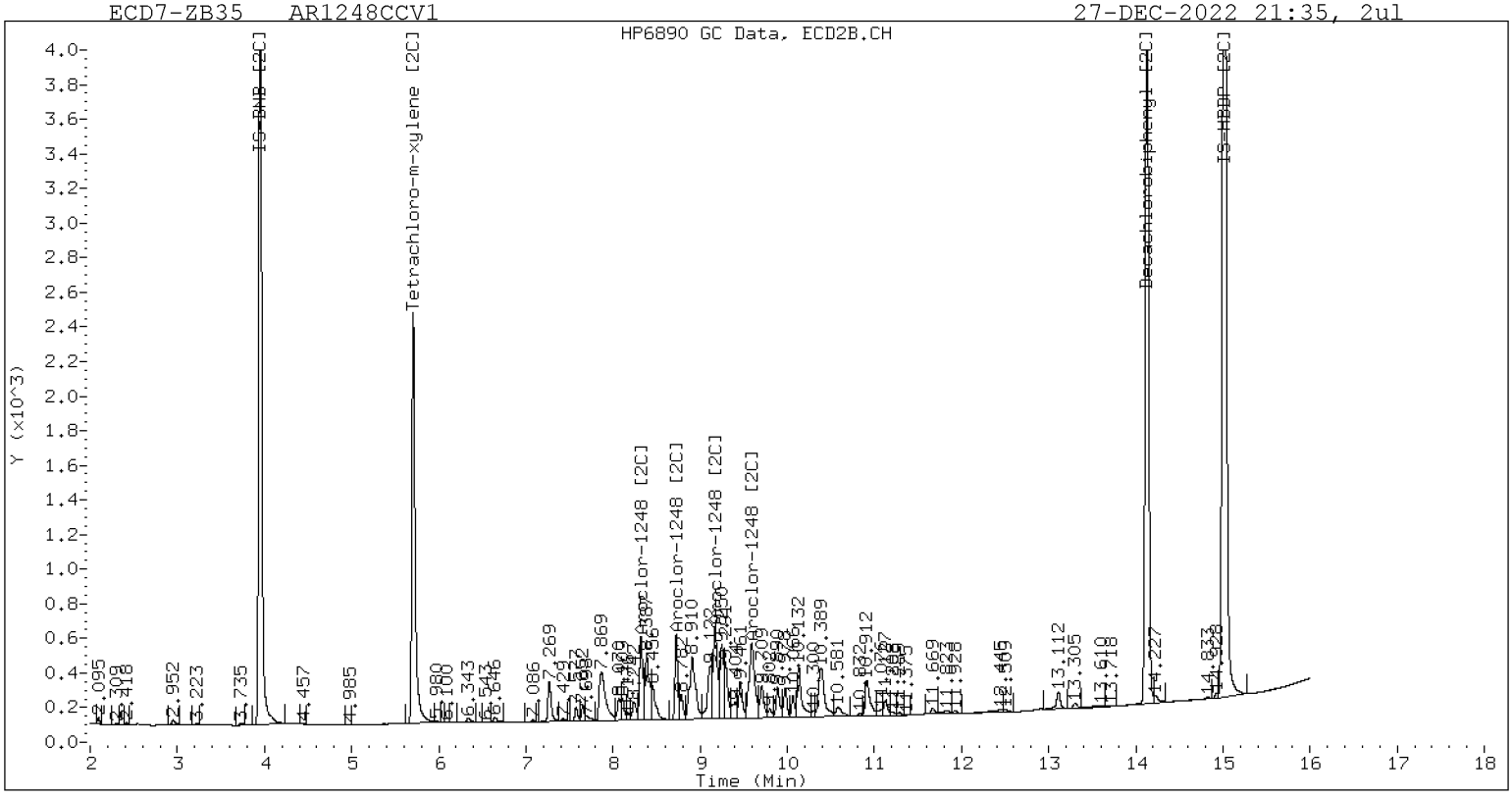
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 27-DEC-2022 21:35, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 27-DEC-2022 21:35, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272216ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/27/22
Lab Sample ID:	SKL0377-CCV2	Injection Time:	21:56
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	269	0.0441939	0.0471406		7.4	+/-20
Aroclor-1016 (1)	A	250.00	266	0.0266860	0.0284101		6.4	
Aroclor-1016 (2)	A	250.00	262	0.0861572	0.0903301		4.8	
Aroclor-1016 (3)	A	250.00	272	0.0390425	0.0425669		8.8	
Aroclor-1016 (4)	A	250.00	274	0.0248899	0.0272554		9.6	
Aroclor 1016 [2C]	A	250.00	244	0.0467310	0.0433673		-2.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	251	0.0409030	0.0410715		0.4	
Aroclor-1016 (2) [2C]	A	250.00	209	0.0882154	0.0737721		-16.4	
Aroclor-1016 (3) [2C]	A	250.00	246	0.0378846	0.0372521		-1.6	
Aroclor-1016 (4) [2C]	A	250.00	268	0.0199212	0.0213735		7.2	
Aroclor 1260	A	250.00	256	0.0390342	0.0396672		2.2	+/-20
Aroclor-1260 (1)	A	250.00	253	0.0291201	0.0294894		1.2	
Aroclor-1260 (2)	A	250.00	253	0.0301181	0.0305321		1.2	
Aroclor-1260 (3)	A	250.00	254	0.0791351	0.0804319		1.6	
Aroclor-1260 (4)	A	250.00	249	0.0403003	0.0401387		-0.4	
Aroclor-1260 (5)	A	250.00	269	0.0164974	0.0177438		7.6	
Aroclor 1260 [2C]	A	250.00	214	0.0617619	0.0487212		-14.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	237	0.0422283	0.0400373		-5.2	
Aroclor-1260 (2) [2C]	A	250.00	170	0.1059643	0.0721484		-32.0	
Aroclor-1260 (3) [2C]	A	250.00	257	0.0282173	0.0290016		2.8	
Aroclor-1260 (4) [2C]	A	250.00	190	0.0706376	0.0536974		-24.0	
Decachlorobiphenyl	A	40.000	43.6	0.7333327	0.8000764		9.0	+/-20
Tetrachlorometaxylene	A	40.000	40.6	1.1336710	1.1521160		1.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.0	1.1358180	1.1929090		5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.8	1.0966080	1.1180230		2.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272216ECD7.D
Data file 2: /221227.b/221227.b/12272216ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 27-DEC-2022 21:56
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	160772	5.708	-0.001	102383	40.7	40.8	0.3	Tetrachloro-m-xylene
13.903	-0.001	276610	14.128	-0.000	190473	43.6	42.0	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	279090	-37.7
Hexabromobiphenyl	798898	691459	-13.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	183150	-26.5
Hexabromobiphenyl	362541	319342	-11.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.001	24778	266.2	1	7.271	-0.001	23507	251.0
Aroclor-1016	2	7.675	0.003	78782	262.1	2	7.870	-0.001	42223	209.1
Aroclor-1016	3	7.810	0.001	37125	272.6	3	8.069	-0.002	21321	245.8
Aroclor-1016	4	8.422	-0.001	23771	273.8	4	8.241	-0.000	12233	268.2
Total Col1Ave (4 peaks):					268.6	Total Col2Ave (4 peaks):				243.5 RPD = 10
Corrected Ave (3 peaks):					266.9	Corrected Ave (3 peaks):				235.3 RPD = 13
CalAmt %D:					7.5	CalAmt %D:				-2.6
Aroclor-1260	1	11.056	0.000	63721	253.2	1	11.662	-0.001	39955	237.0
Aroclor-1260	2	11.372	0.000	65974	253.4	2	11.925	-0.001	72000	170.2
Aroclor-1260	3	11.745	0.002	173798	254.1	3	12.444	-0.001	28942	256.9
Aroclor-1260	4	12.149	-0.000	86732	249.0	4	12.509	-0.000	53587	190.0
Aroclor-1260	5	12.255	-0.000	38341	268.9	NS	---			----
Total Col1Ave (5 peaks):					255.7	Total Col2Ave (4 peaks):				213.6 RPD = 18
Corrected Ave (4 peaks):					252.4	Corrected Ave (3 peaks):				199.1 RPD = 24
CalAmt %D:					2.3	CalAmt %D:				-14.6

Total PCB Area Col1 (5.931 - 13.803) = 1741130 Col1 Total PCB = 0.7 ppm*

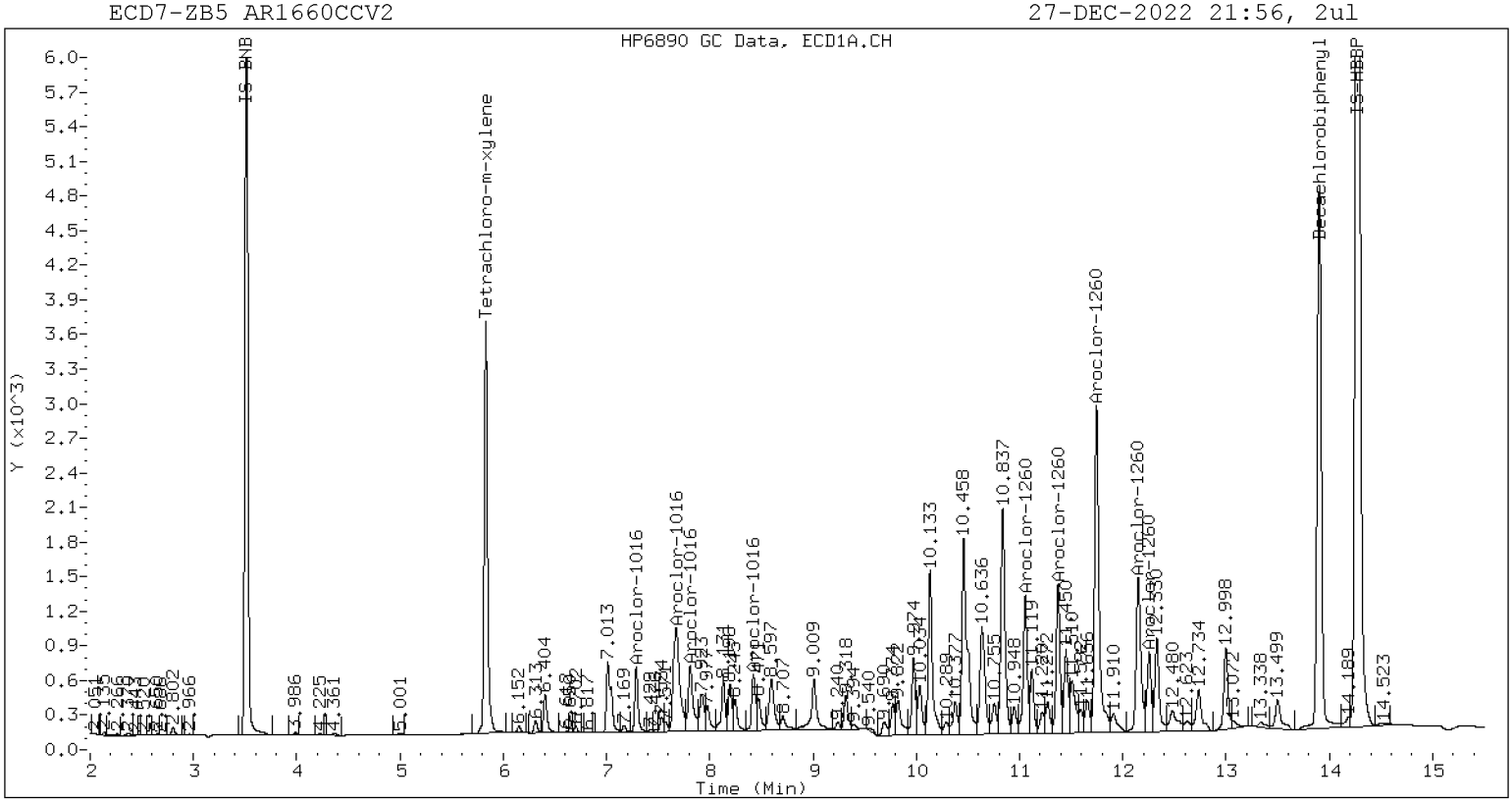
Total PCB Area Col2 (5.809 - 14.028) = 877514 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

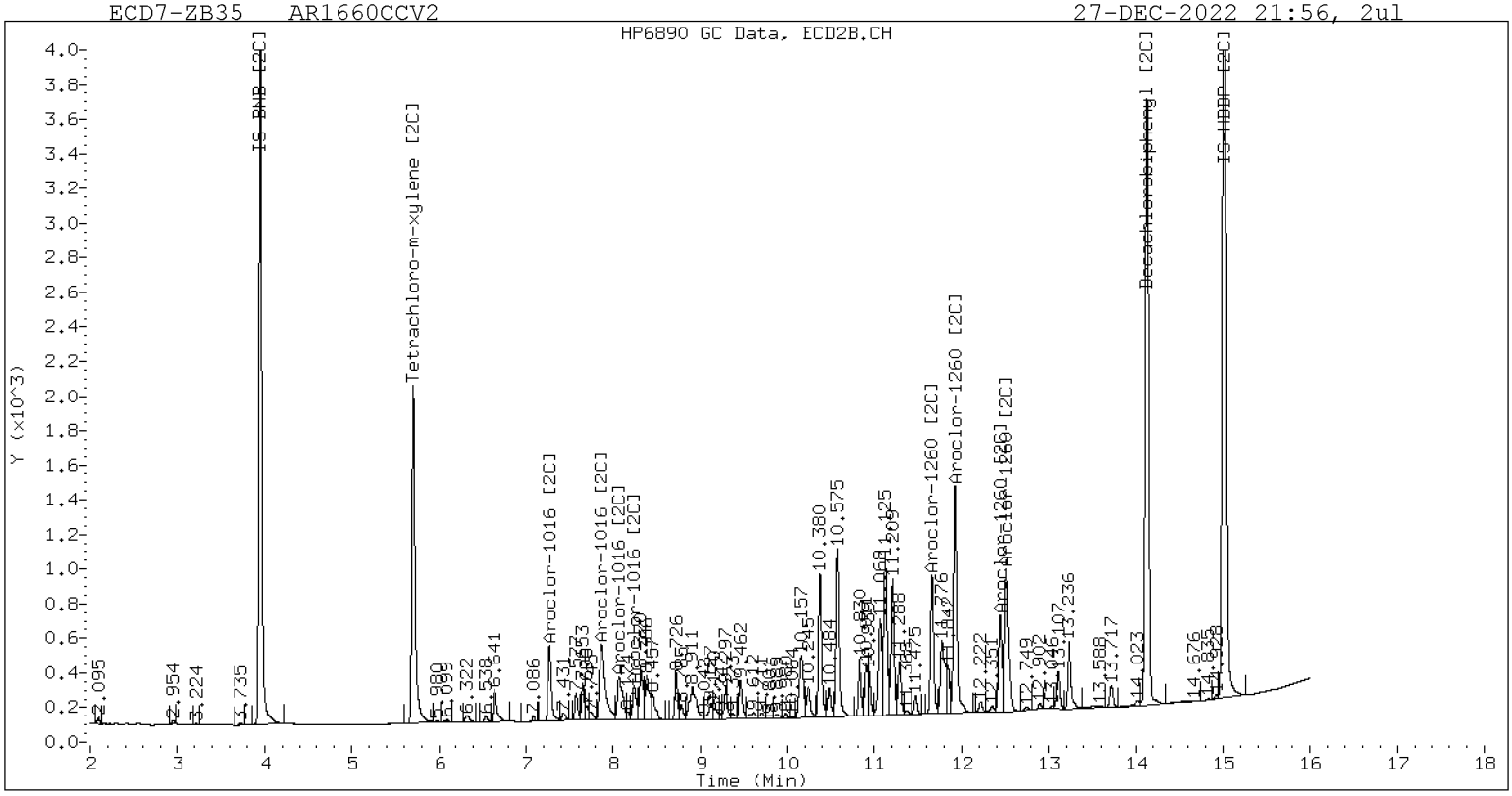
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 27-DEC-2022 21:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 27-DEC-2022 21:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272227ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCV3	Injection Time:	01:48
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	265	0.0396000	0.0423492		6.1	+/-20
Aroclor-1242 (1)	A	250.00	257		0.0233244			
Aroclor-1242 (2)	A	250.00	264		0.0761395			
Aroclor-1242 (3)	A	250.00	258		0.0213801			
Aroclor-1242 (4)	A	250.00	282		0.0485527			
Aroclor 1242 [2C]	A	250.00	259	0.0391981	0.0381220		3.7	+/-20
Aroclor-1242 (1) [2C]	A	250.00	261		0.0353092			
Aroclor-1242 (2) [2C]	A	250.00	203		0.0585049			
Aroclor-1242 (3) [2C]	A	250.00	280		0.0260206			
Aroclor-1242 (4) [2C]	A	250.00	293		0.0326531			
Decachlorobiphenyl	A	40.000	41.7	0.7333327	0.7643812		4.3	+/-20
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1099060		-2.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.2	1.1358180	1.1972850		5.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.0966080	1.0796960		-1.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272227ECD7.D
Data file 2: /221227.b/221227.b/12272227ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 28-DEC-2022 01:48
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	180483	5.710	0.001	120777	39.2	39.4	0.6	Tetrachloro-m-xylene
13.901	-0.002	184947	14.128	-0.001	173950	41.7	42.2	1.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	325222	-27.3
Hexabromobiphenyl	798898	483913	-39.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	223724	-10.2
Hexabromobiphenyl	362541	290574	-19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	-0.006	23705	257.2	1	7.272	0.000	24686	260.7
Aroclor-1242	2	7.674	-0.011	77382	264.4	2	7.870	-0.000	40903	203.5
Aroclor-1242	3	8.422	-0.008	21729	258.0	3	9.169	-0.001	18192	280.5
Aroclor-1242	4	9.020	-0.011	49345	282.2	4	9.588	-0.001	22829	292.9
Total Col1Ave (4 peaks):					265.4	Total Col2Ave (4 peaks):				259.4 RPD = 2
Corrected Ave (3 peaks):					259.9	Corrected Ave (3 peaks):				248.2 RPD = 5
CalAmt %D:					6.2	CalAmt %D:				3.8

Total PCB Area Col1 (5.931 - 13.803) = 721145 Col1 Total PCB = 0.2 ppm*

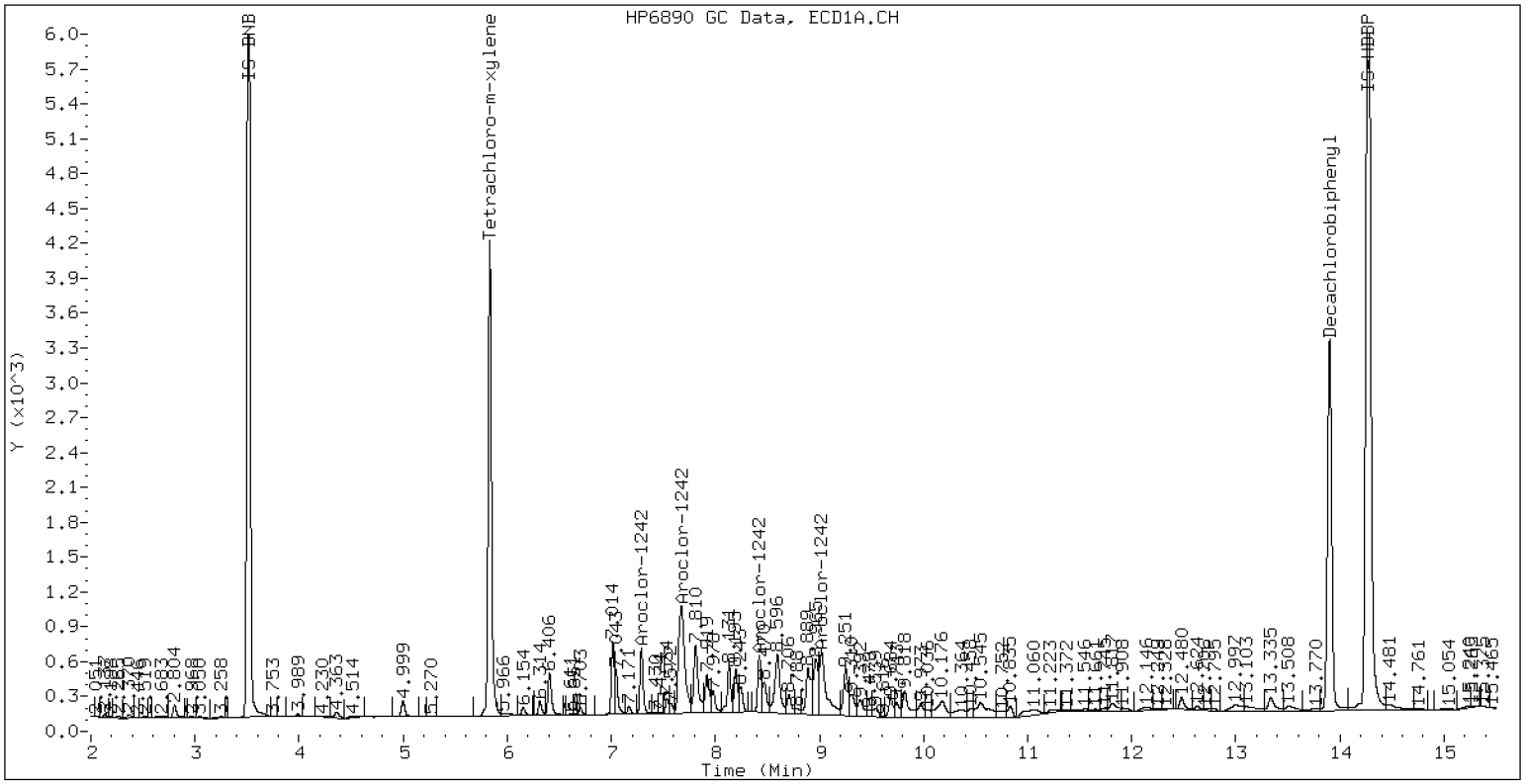
Total PCB Area Col2 (5.809 - 14.028) = 386426 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

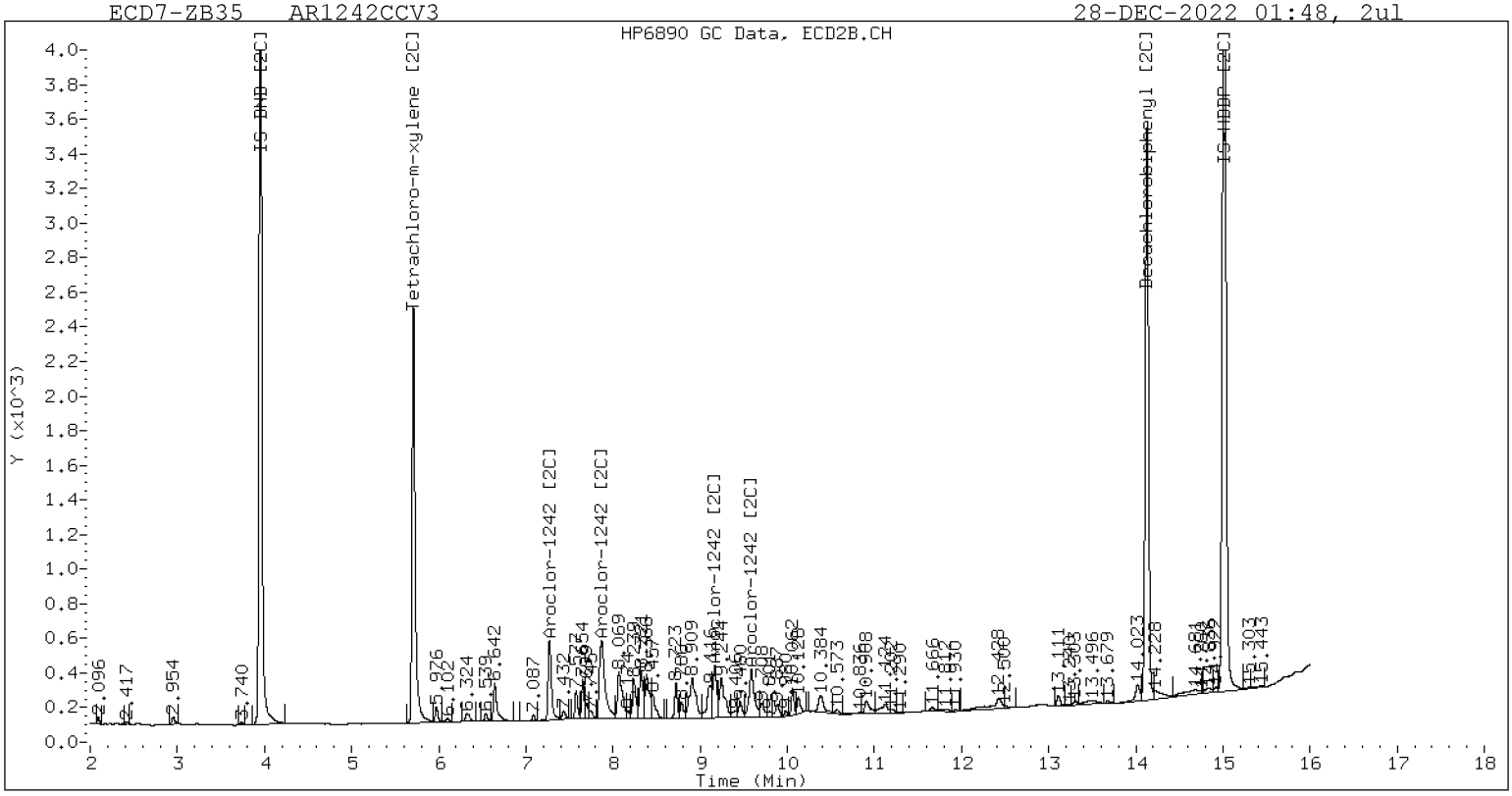
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 28-DEC-2022 01:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 28-DEC-2022 01:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272228ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCV4	Injection Time:	02:09
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	296	0.0441939	0.0511621		18.5	+/-20	
Aroclor-1016 (1)	A	250.00	288	0.0266860	0.0307294		15.2		
Aroclor-1016 (2)	A	250.00	278	0.0861572	0.0958013		11.2		
Aroclor-1016 (3)	A	250.00	291	0.0390425	0.0454237		16.4		
Aroclor-1016 (4)	A	250.00	328	0.0248899	0.0326940		31.2		
Aroclor 1016 [2C]	A	250.00	250	0.0467310	0.0445198		0.1	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	262	0.0409030	0.0427939		4.8		
Aroclor-1016 (2) [2C]	A	250.00	214	0.0882154	0.0754650		-14.4		
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0379256		0.0		
Aroclor-1016 (4) [2C]	A	250.00	275	0.0199212	0.0218945		10.0		
Aroclor 1260	A	250.00	305	0.0390342	0.0467929		22.0	+/-20	*
Aroclor-1260 (1)	A	250.00	292	0.0291201	0.0339889		16.8		
Aroclor-1260 (2)	A	250.00	287	0.0301181	0.0345446		14.8		
Aroclor-1260 (3)	A	250.00	290	0.0791351	0.0917499		16.0		
Aroclor-1260 (4)	A	250.00	319	0.0403003	0.0514327		27.6		
Aroclor-1260 (5)	A	250.00	337	0.0164974	0.0222482		34.8		
Aroclor 1260 [2C]	A	250.00	239	0.0617619	0.0546030		-4.6	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	266	0.0422283	0.0448980		6.4		
Aroclor-1260 (2) [2C]	A	250.00	193	0.1059643	0.0817310		-22.8		
Aroclor-1260 (3) [2C]	A	250.00	284	0.0282173	0.0320607		13.6		
Aroclor-1260 (4) [2C]	A	250.00	211	0.0706376	0.0597224		-15.6		
Decachlorobiphenyl	A	40.000	47.3	0.7333327	0.8669780		18.3	+/-20	
Tetrachlorometaxylene	A	40.000	42.2	1.1336710	1.1977150		5.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	42.8	1.1358180	1.2148260		7.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	41.5	1.0966080	1.1374060		3.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272228ECD7.D
Data file 2: /221227.b/221227.b/12272228ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 28-DEC-2022 02:09
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	162509	5.708	-0.001	105528	42.3	41.5	1.8	Tetrachloro-m-xylene
13.902	-0.001	202168	14.129	0.000	166583	47.3	42.8	10.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	271365	-39.4
Hexabromobiphenyl	798898	466374	-41.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	185559	-25.5
Hexabromobiphenyl	362541	274250	-24.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.289	0.000	26059	287.9	1	7.272	-0.000	24815	261.6
Aroclor-1016	2	7.674	0.002	81241	278.0	2	7.871	-0.000	43760	213.9
Aroclor-1016	3	7.810	0.001	38520	290.9	3	8.069	-0.003	21992	250.3
Aroclor-1016	4	8.422	-0.001	27725	328.4	4	8.239	-0.002	12696	274.8
Total Col1Ave (4 peaks):				296.3		Total Col2Ave (4 peaks):			250.1	RPD = 17
Corrected Ave (3 peaks):				285.6		Corrected Ave (3 peaks):			241.9	RPD = 17
CalAmt %D:				18.5		CalAmt %D:			0.0	
Aroclor-1260	1	11.055	-0.000	49536	291.8	1	11.662	-0.001	38479	265.8
Aroclor-1260	2	11.372	-0.000	50346	286.7	2	11.924	-0.002	70046	192.8
Aroclor-1260	3	11.745	0.001	133718	289.9	3	12.444	-0.001	27477	284.1
Aroclor-1260	4	12.148	-0.001	74959	319.1	4	12.507	-0.002	51184	211.4
Aroclor-1260	5	12.254	-0.001	32425	337.1	NS	---			----
Total Col1Ave (5 peaks):				304.9		Total Col2Ave (4 peaks):			238.5	RPD = 24
Corrected Ave (4 peaks):				296.9		Corrected Ave (3 peaks):			223.3	RPD = 28
CalAmt %D:				22.0		CalAmt %D:			-4.6	

Total PCB Area Col1 (5.931 - 13.803) = 1487867 Col1 Total PCB = 0.6 ppm*

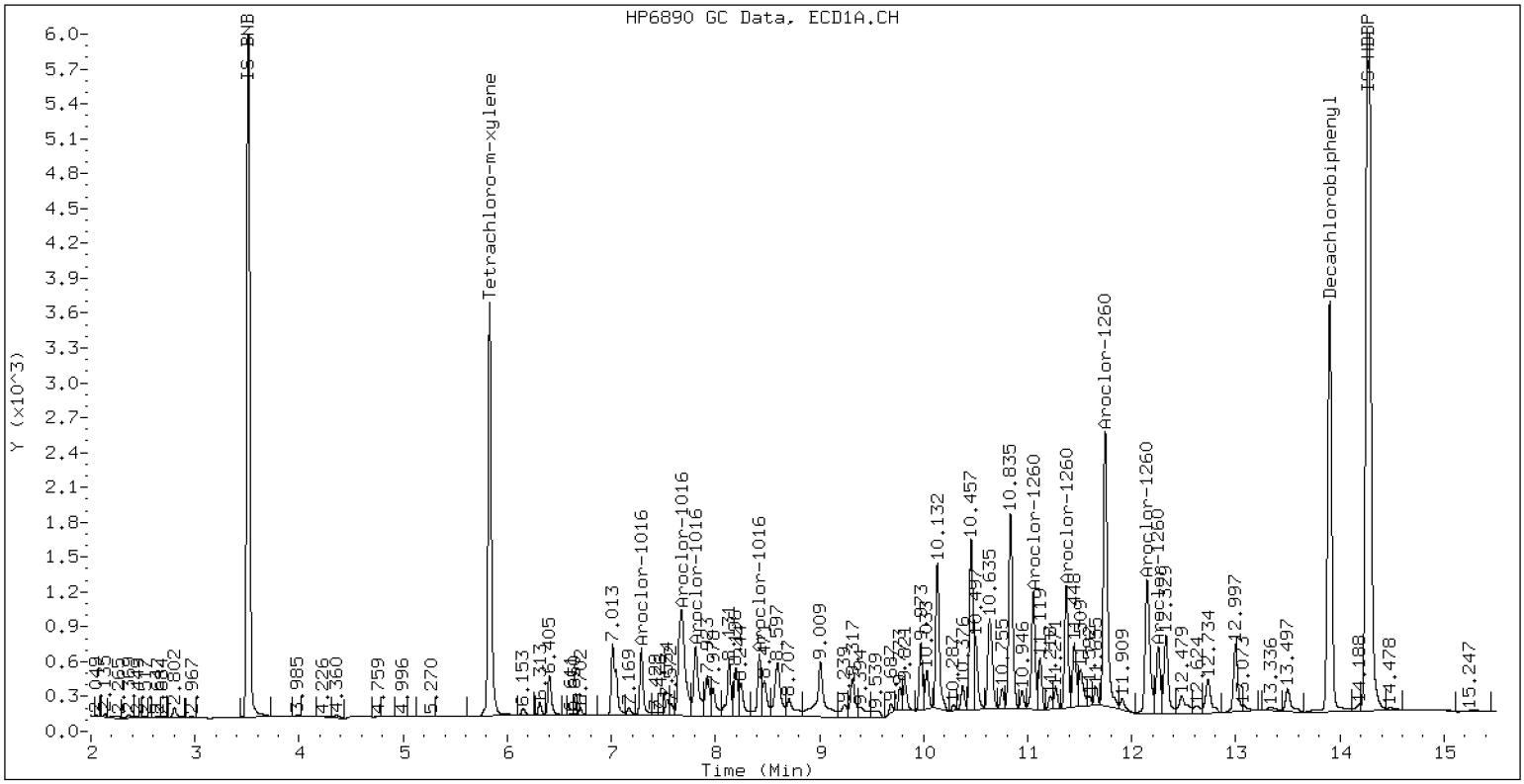
Total PCB Area Col2 (5.809 - 14.028) = 853821 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

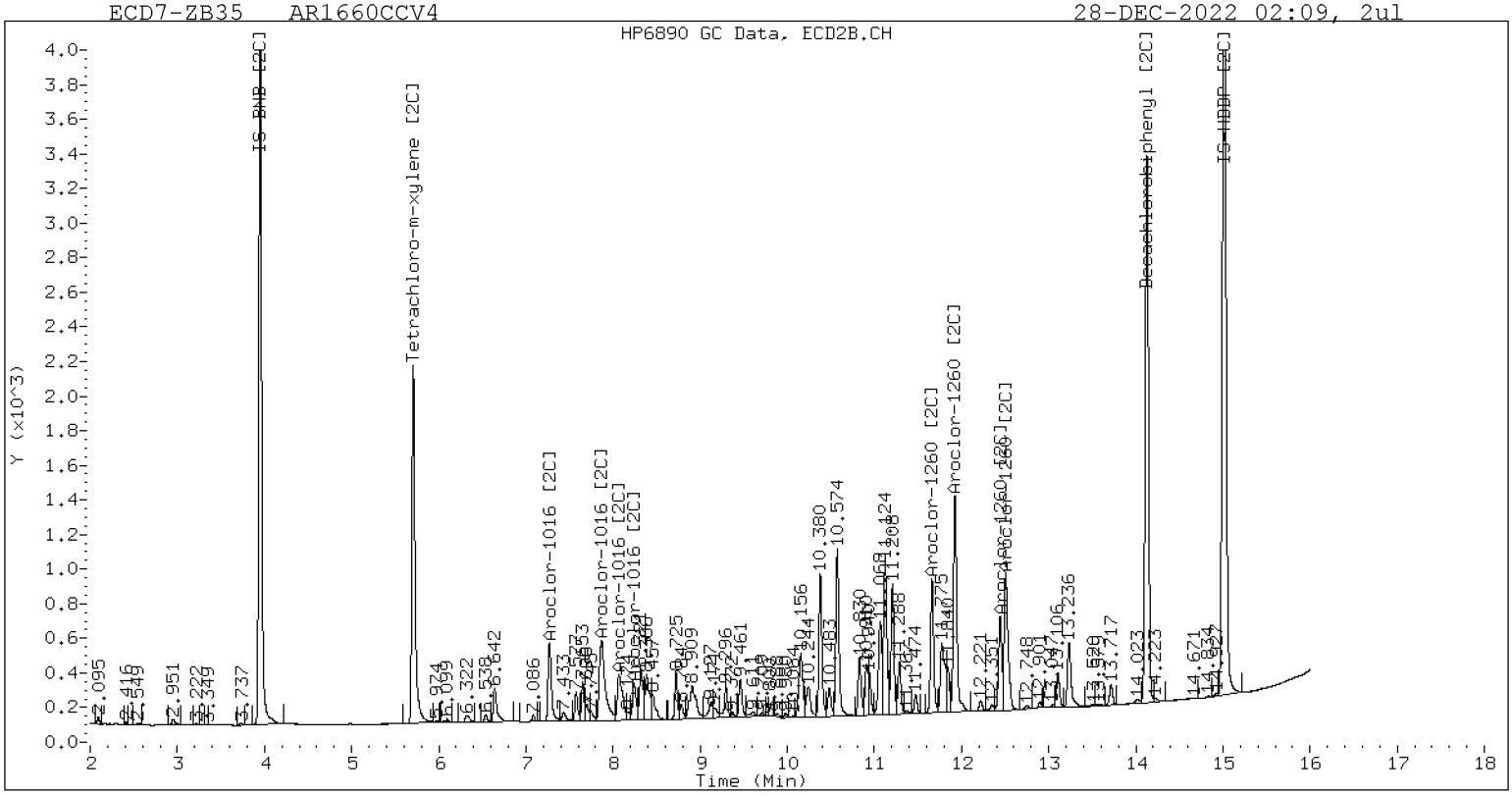
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 28-DEC-2022 02:09, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV4 28-DEC-2022 02:09, 2ul

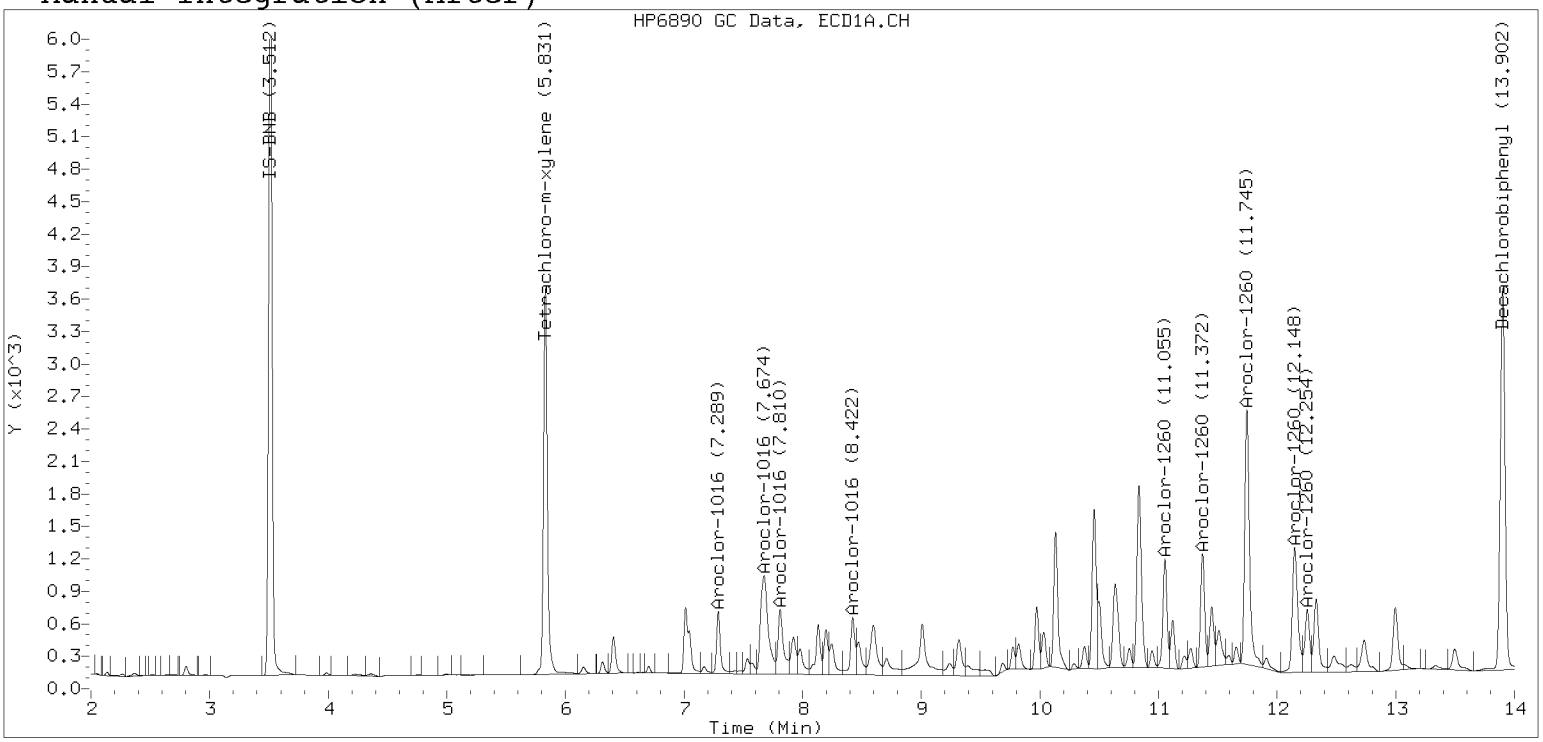


ZB-35 Manual Integration: NO

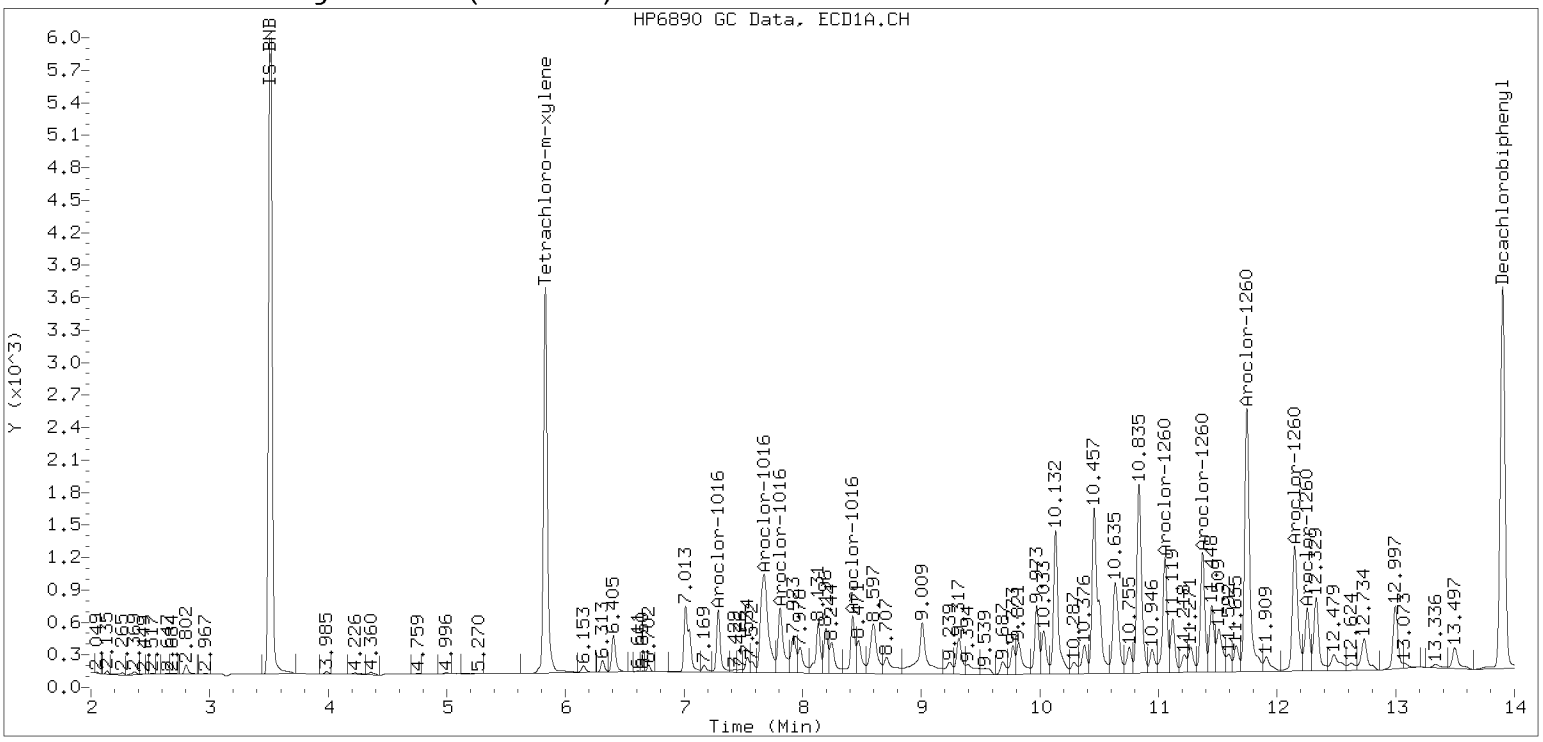
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221227.b/12272228ECD7.D Injection Date: 28-DEC-2022 02:09

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272239ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCV5	Injection Time:	06:01
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	267	0.0576965	0.0622493		6.8	+/-20
Aroclor-1254 (1)	A	250.00	250		0.0703209			
Aroclor-1254 (2)	A	250.00	272		0.0298467			
Aroclor-1254 (3)	A	250.00	226		0.0401417			
Aroclor-1254 (4)	A	250.00	288		0.0999266			
Aroclor-1254 (5)	A	250.00	299		0.0710104			
Aroclor 1254 [2C]	A	250.00	235	0.0638047	0.0617294		-5.8	+/-20
Aroclor-1254 (1) [2C]	A	250.00	239		0.0494130			
Aroclor-1254 (2) [2C]	A	250.00	155		0.0256849			
Aroclor-1254 (3) [2C]	A	250.00	226		0.0807510			
Aroclor-1254 (4) [2C]	A	250.00	280		0.1033836			
Aroclor-1254 (5) [2C]	A	250.00	277		0.0494144			
Decachlorobiphenyl	A	40.000	44.4	0.7333327	0.8139294		11.0	+/-20
Tetrachlorometaxylene	A	40.000	38.4	1.1336710	1.0879620		-4.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.6	1.1358180	1.1825020		4.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.8	1.0966080	1.0373200		-5.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272239ECD7.D
Data file 2: /221227.b/221227.b/12272239ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 28-DEC-2022 06:01
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	192115	5.709	0.001	123925	38.4	37.8	1.4	Tetrachloro-m-xylene
13.903	-0.000	300471	14.129	0.000	224799	44.4	41.6	6.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	353165	-21.1
Hexabromobiphenyl	798898	738322	-7.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	238933	-4.1
Hexabromobiphenyl	362541	380209	4.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	-0.007	77609	249.6	1	9.462	0.001	36895	239.5
Aroclor-1254	2	9.392	-0.010	32940	272.4	2	9.979	-0.000	19178	154.8
Aroclor-1254	3	9.684	-0.010	44302	225.6	3	10.130	-0.000	60294	226.5
Aroclor-1254	4	9.819	-0.012	110283	288.1	4	10.378	-0.000	77193	280.0
Aroclor-1254	5	10.172	-0.017	78370	298.6	5	10.576	0.000	36896	277.5
		Total Col1Ave (5 peaks):		266.9			Total Col2Ave (5 peaks):		235.7	RPD = 12
		Corrected Ave (4 peaks):		258.9			Corrected Ave (4 peaks):		224.6	RPD = 14
			CalAmt %D:	6.7				CalAmt %D:	-5.7	

Total PCB Area Col1 (5.931 - 13.803) = 1154653 Col1 Total PCB = 0.3 ppm*

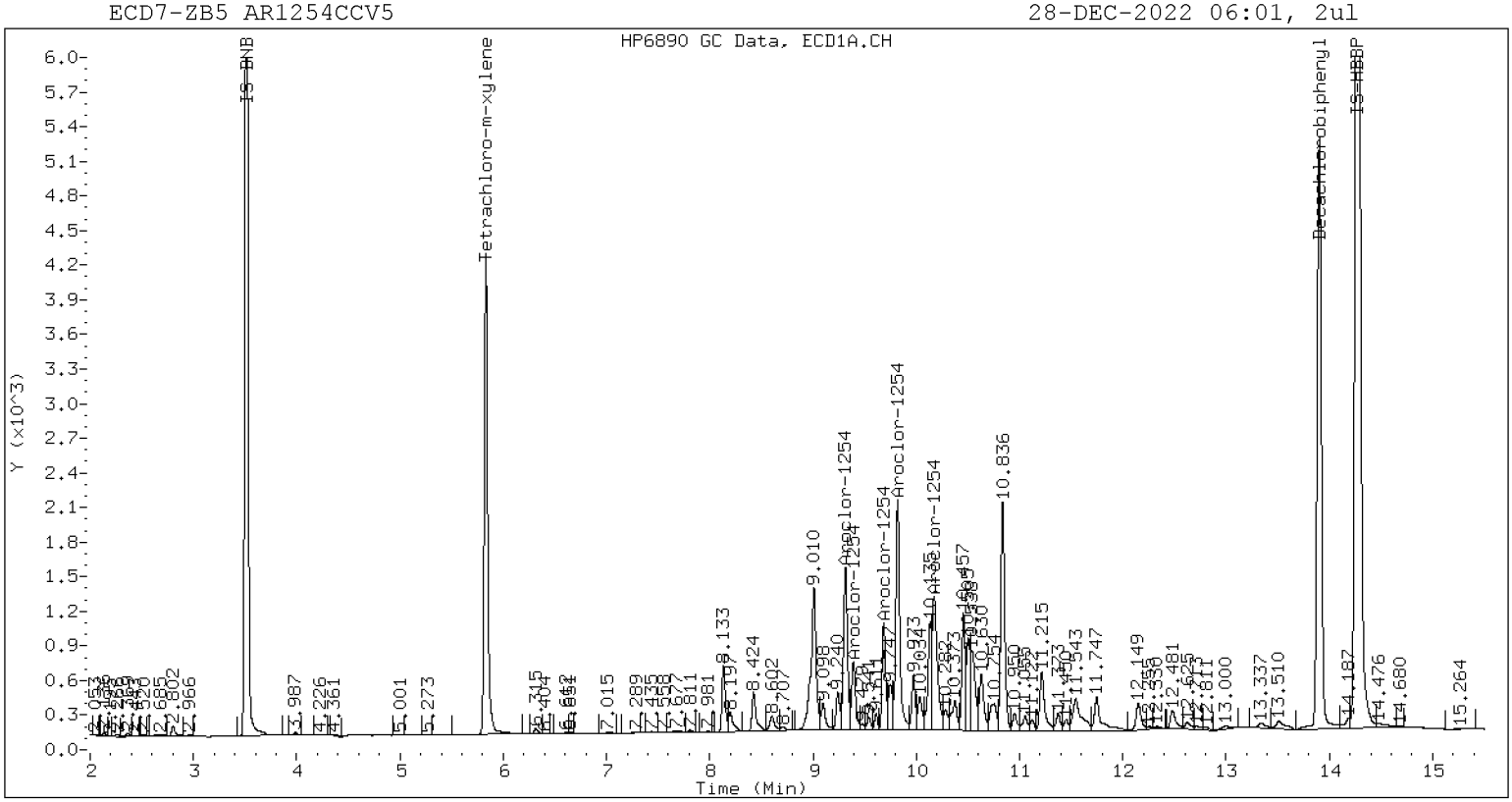
Total PCB Area Col2 (5.809 - 14.028) = 659369 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

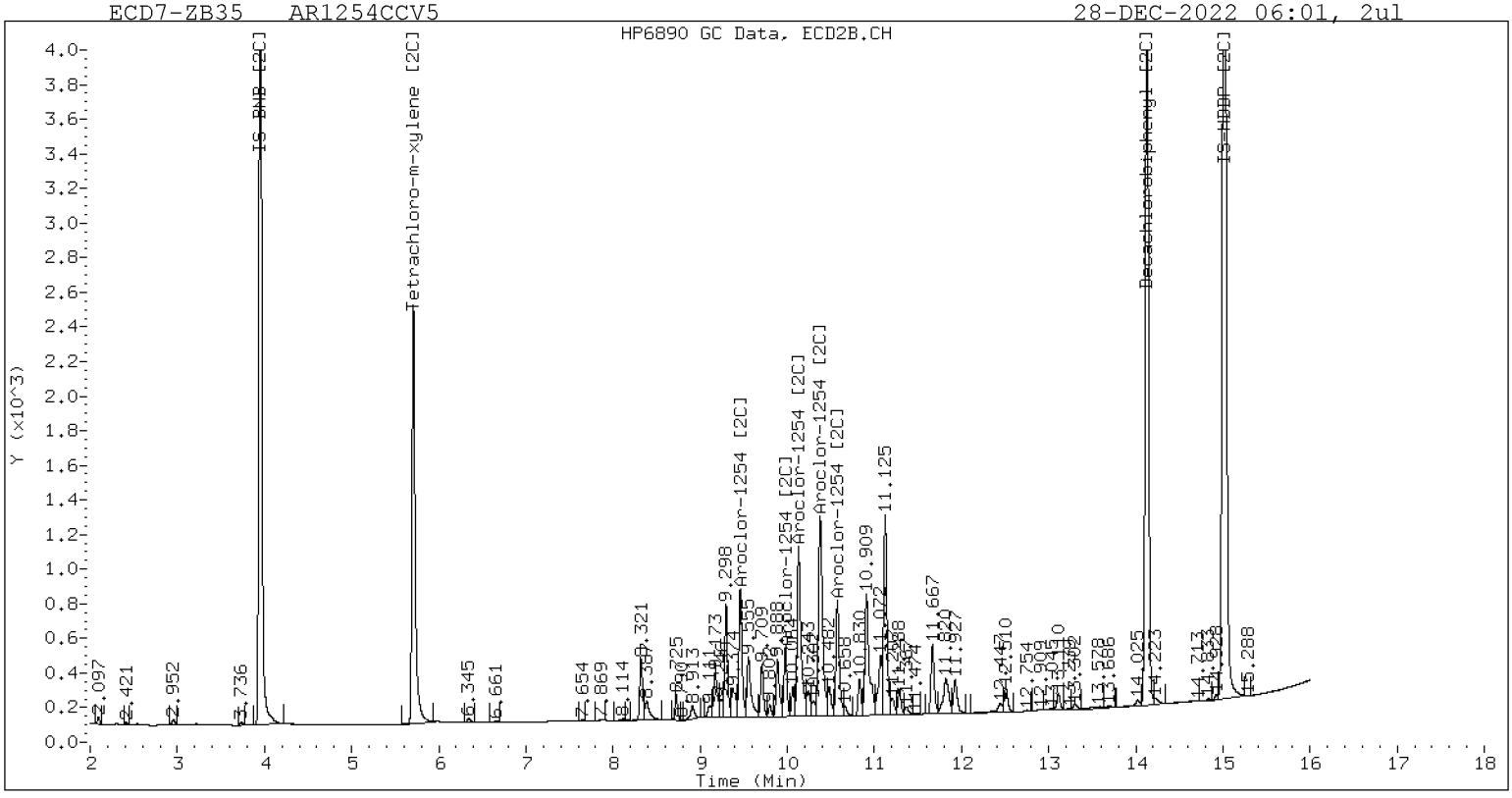
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 28-DEC-2022 06:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 28-DEC-2022 06:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272240ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCV6	Injection Time:	06:22
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	288	0.0441939	0.0497146		15.3	+/-20
Aroclor-1016 (1)	A	250.00	278	0.0266860	0.0297303		11.2	
Aroclor-1016 (2)	A	250.00	269	0.0861572	0.0925711		7.6	
Aroclor-1016 (3)	A	250.00	287	0.0390425	0.0447694		14.8	
Aroclor-1016 (4)	A	250.00	319	0.0248899	0.0317874		27.6	
Aroclor 1016 [2C]	A	250.00	242	0.0467310	0.0431477		-3.3	+/-20
Aroclor-1016 (1) [2C]	A	250.00	250	0.0409030	0.0409661		0.0	
Aroclor-1016 (2) [2C]	A	250.00	208	0.0882154	0.0735445		-16.8	
Aroclor-1016 (3) [2C]	A	250.00	244	0.0378846	0.0369667		-2.4	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0211138		6.0	
Aroclor 1260	A	250.00	273	0.0390342	0.0424202		9.4	+/-20
Aroclor-1260 (1)	A	250.00	275	0.0291201	0.0320072		10.0	
Aroclor-1260 (2)	A	250.00	273	0.0301181	0.0329333		9.2	
Aroclor-1260 (3)	A	250.00	271	0.0791351	0.0857473		8.4	
Aroclor-1260 (4)	A	250.00	265	0.0403003	0.0427528		6.0	
Aroclor-1260 (5)	A	250.00	283	0.0164974	0.0186603		13.2	
Aroclor 1260 [2C]	A	250.00	219	0.0617619	0.0498256		-12.4	+/-20
Aroclor-1260 (1) [2C]	A	250.00	248	0.0422283	0.0418235		-0.8	
Aroclor-1260 (2) [2C]	A	250.00	174	0.1059643	0.0736869		-30.4	
Aroclor-1260 (3) [2C]	A	250.00	263	0.0282173	0.0297138		5.2	
Aroclor-1260 (4) [2C]	A	250.00	191	0.0706376	0.0540781		-23.6	
Decachlorobiphenyl	A	40.000	45.2	0.7333327	0.8288192		13.0	+/-20
Tetrachlorometaxylene	A	40.000	40.2	1.1336710	1.1394690		0.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1796510		3.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.9	1.0966080	1.0943320		-0.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272240ECD7.D
Data file 2: /221227.b/221227.b/12272240ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 28-DEC-2022 06:22
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	157220	5.710	0.002	101745	40.2	39.9	0.7	Tetrachloro-m-xylene
13.903	-0.001	259035	14.129	0.001	184915	45.2	41.5	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	275953	-38.4
Hexabromobiphenyl	798898	625070	-21.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	185949	-25.3
Hexabromobiphenyl	362541	313508	-13.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	25638	278.5	1	7.273	0.000	23805	250.4
Aroclor-1016	2	7.676	0.005	79829	268.6	2	7.872	0.001	42736	208.4
Aroclor-1016	3	7.811	0.002	38607	286.7	3	8.072	0.000	21481	243.9
Aroclor-1016	4	8.423	0.000	27412	319.3	4	8.242	0.000	12269	265.0
Total Col1Ave (4 peaks):					288.3	Total Col2Ave (4 peaks):				241.9 RPD = 17
Corrected Ave (3 peaks):					277.9	Corrected Ave (3 peaks):				234.3 RPD = 17
CalAmt %D:					15.3	CalAmt %D:				-3.2
Aroclor-1260	1	11.056	0.001	62521	274.8	1	11.664	0.001	40975	247.6
Aroclor-1260	2	11.372	0.001	64330	273.4	2	11.927	0.001	72192	173.8
Aroclor-1260	3	11.746	0.002	167494	270.9	3	12.446	0.001	29111	263.3
Aroclor-1260	4	12.149	-0.000	83511	265.2	4	12.510	0.001	52981	191.4
Aroclor-1260	5	12.255	-0.001	36450	282.8	NS	---			----
Total Col1Ave (5 peaks):					273.4	Total Col2Ave (4 peaks):				219.0 RPD = 22
Corrected Ave (4 peaks):					271.1	Corrected Ave (3 peaks):				204.3 RPD = 28
CalAmt %D:					9.4	CalAmt %D:				-12.4

Total PCB Area Col1 (5.931 - 13.803) = 1776659 Col1 Total PCB = 0.7 ppm*

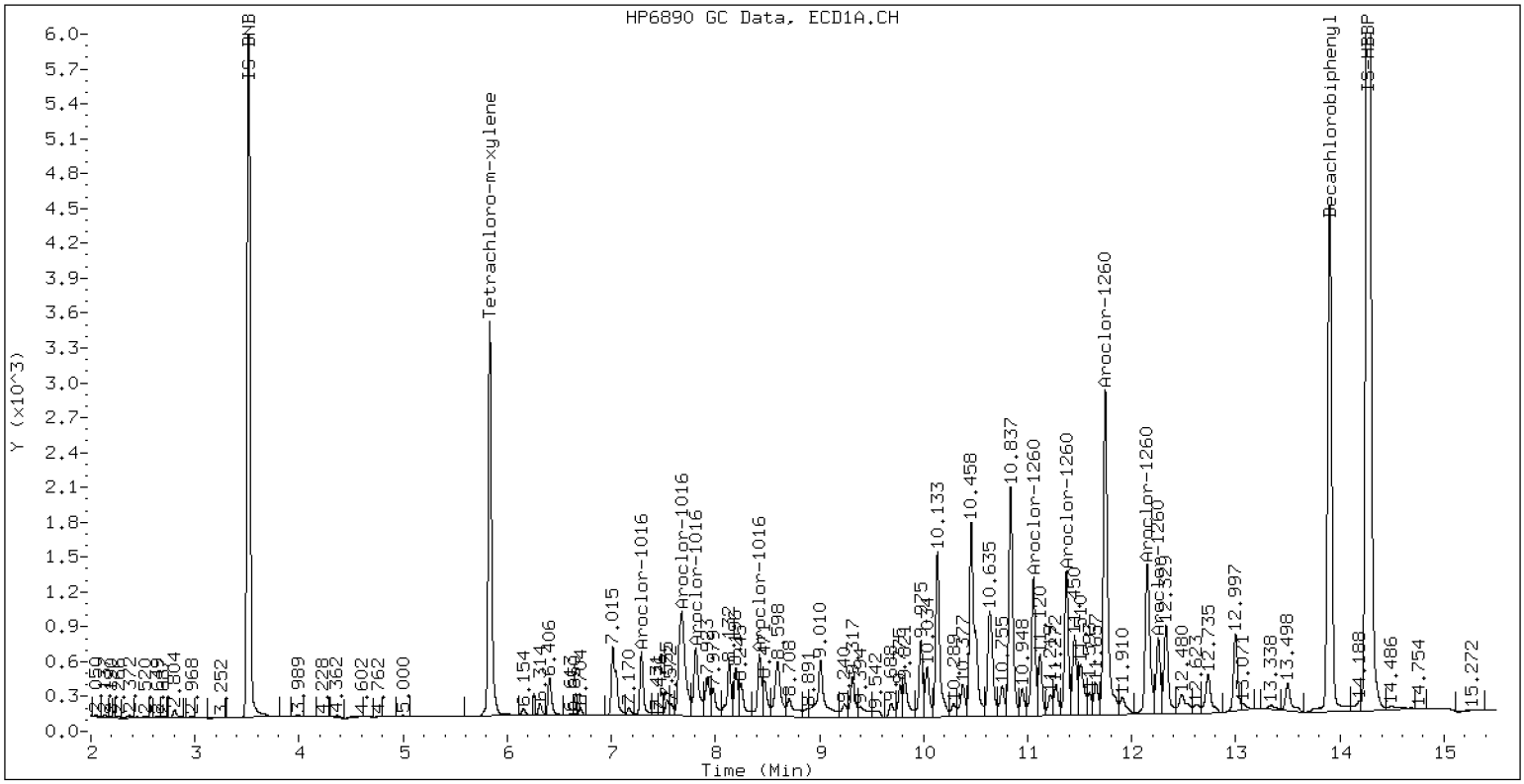
Total PCB Area Col2 (5.809 - 14.028) = 888113 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

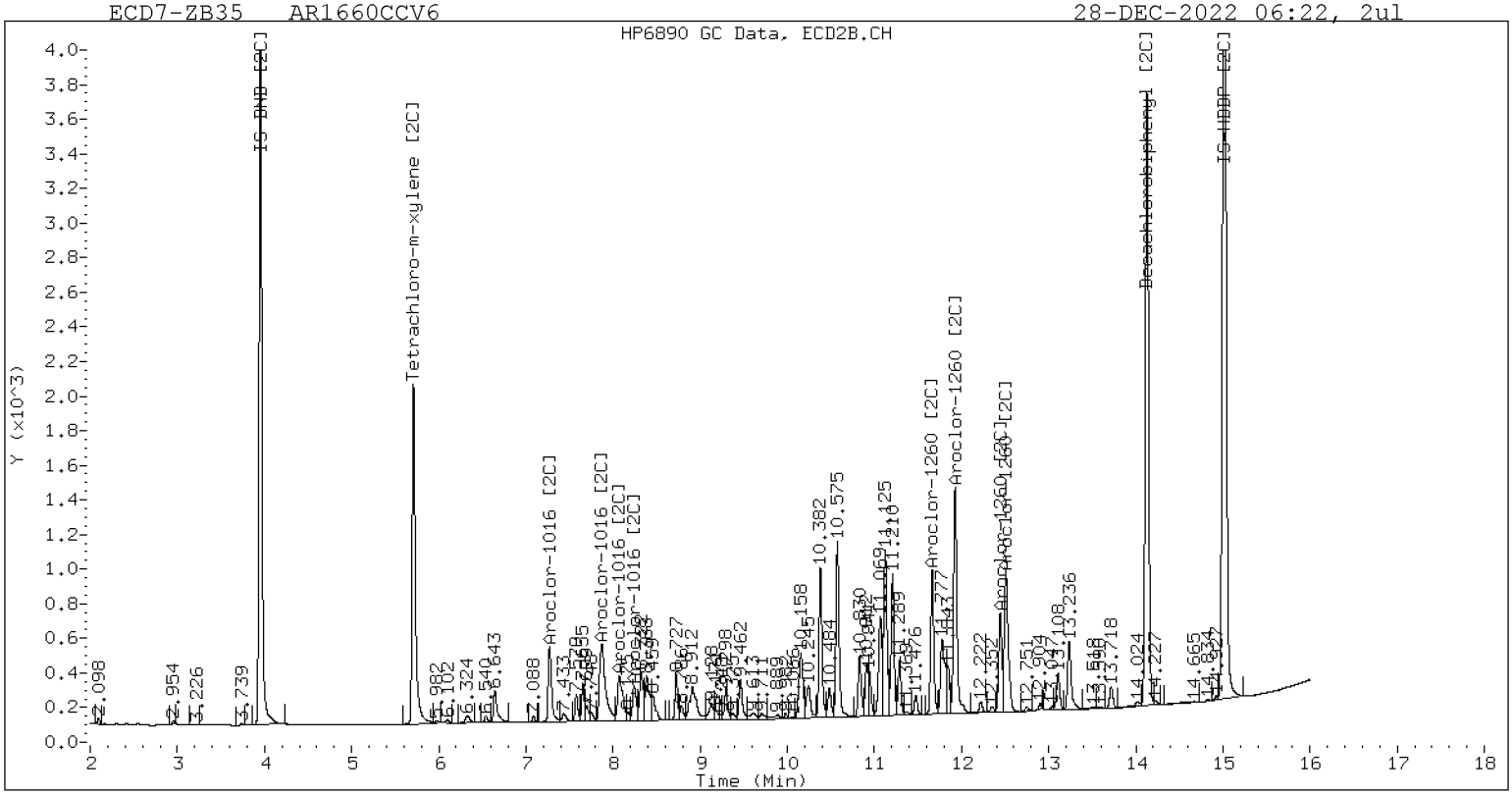
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 28-DEC-2022 06:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 28-DEC-2022 06:22, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272247ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCV7	Injection Time:	08:50
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	260	0.0490062	0.0521620		3.8	+/-20
Aroclor-1248 (1)	A	250.00	282		0.0387752			
Aroclor-1248 (2)	A	250.00	296		0.0520573			
Aroclor-1248 (3)	A	250.00	289		0.0913577			
Aroclor-1248 (4)	A	250.00	171		0.0264578			
Aroclor 1248 [2C]	A	250.00	251	0.0394876	0.0400584		0.3	+/-20
Aroclor-1248 (1) [2C]	A	250.00	258		0.0337053			
Aroclor-1248 (2) [2C]	A	250.00	199		0.0273375			
Aroclor-1248 (3) [2C]	A	250.00	275		0.0459657			
Aroclor-1248 (4) [2C]	A	250.00	271		0.0532252			
Decachlorobiphenyl	A	40.000	41.5	0.7333327	0.7605915		3.8	+/-20
Tetrachlorometaxylene	A	40.000	37.4	1.1336710	1.0592880		-6.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1774090		3.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.7	1.0966080	1.0326760		-5.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272247ECD7.D
Data file 2: /221227.b/221227.b/12272247ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 28-DEC-2022 08:50
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	195873	5.709	-0.000	127299	37.4	37.7	0.8	Tetrachloro-m-xylene
13.904	0.000	336896	14.131	0.003	249842	41.5	41.5	0.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	369820	-17.4
Hexabromobiphenyl	798898	885879	10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	246542	-1.0
Hexabromobiphenyl	362541	424393	17.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1248	1	8.423	-0.005	44812	281.8	1	8.322	0.000	25968	257.8
Aroclor-1248	2	8.598	-0.006	60162	296.3	2	8.727	0.000	21062	198.8
Aroclor-1248	3	9.016	-0.006	105581	289.1	3	9.173	0.000	35414	274.8
Aroclor-1248	4	9.311	-0.001	30577	170.9	4	9.594	0.000	41007	271.1
Total Col1Ave (4 peaks):					259.5	Total Col2Ave (4 peaks):				250.6 RPD = 3
Corrected Ave (3 peaks):					247.3	Corrected Ave (3 peaks):				242.6 RPD = 2
CalAmt %D:					3.8	CalAmt %D:				0.3

Total PCB Area Col1 (5.931 - 13.803) = 993977 Col1 Total PCB = 0.3 ppm*

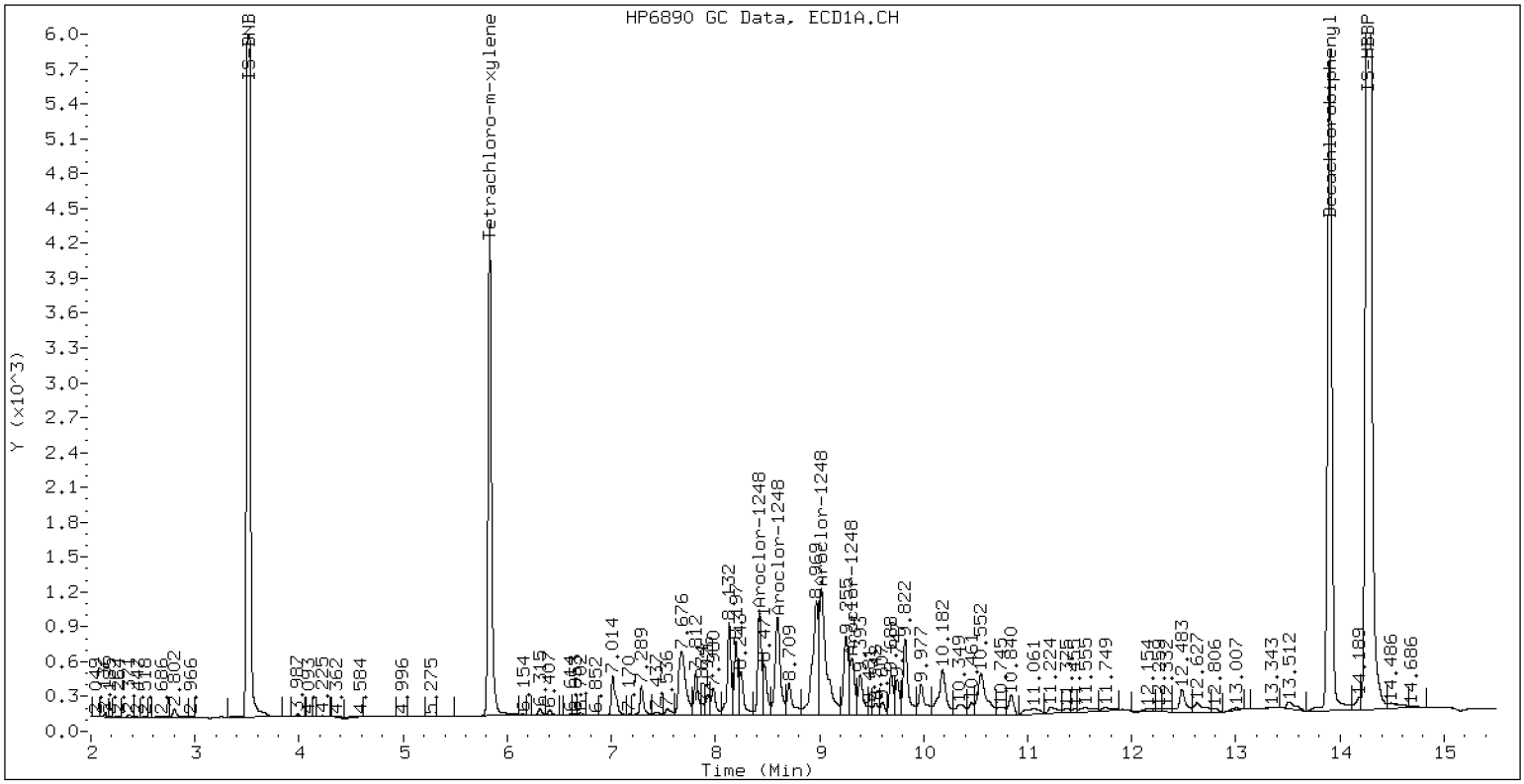
Total PCB Area Col2 (5.809 - 14.028) = 509464 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

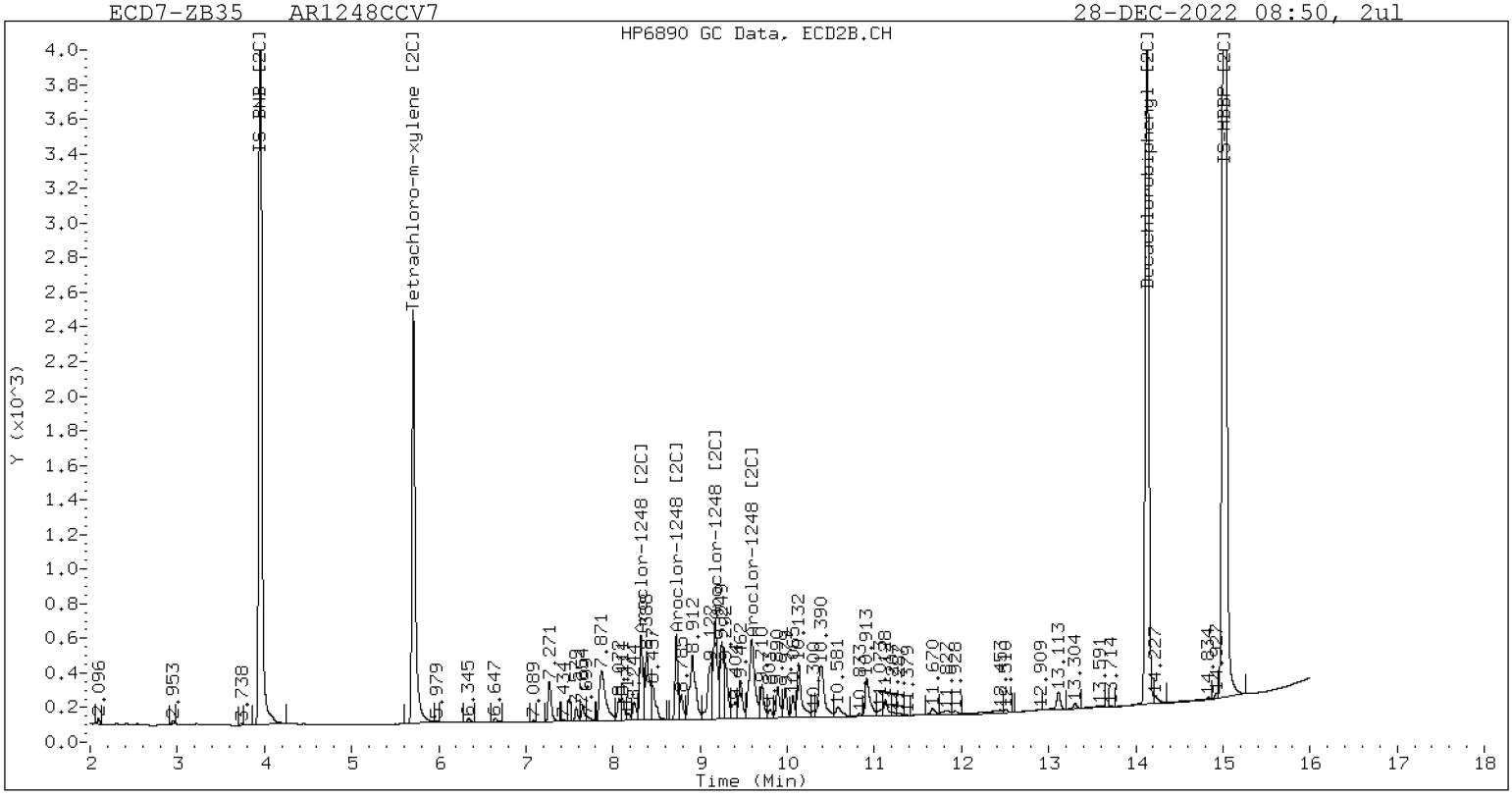
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 28-DEC-2022 08:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 28-DEC-2022 08:50, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272248ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCV8	Injection Time:	09:11
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	295	0.0441939	0.0507524		17.9	+/-20
Aroclor-1016 (1)	A	250.00	282	0.0266860	0.0300679		12.8	
Aroclor-1016 (2)	A	250.00	274	0.0861572	0.0943709		9.6	
Aroclor-1016 (3)	A	250.00	291	0.0390425	0.0454998		16.4	
Aroclor-1016 (4)	A	250.00	332	0.0248899	0.0330711		32.8	
Aroclor 1016 [2C]	A	250.00	249	0.0467310	0.0443186		-0.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	258	0.0409030	0.0422458		3.2	
Aroclor-1016 (2) [2C]	A	250.00	214	0.0882154	0.0753798		-14.4	
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0379378		0.0	
Aroclor-1016 (4) [2C]	A	250.00	272	0.0199212	0.0217109		8.8	
Aroclor 1260	A	250.00	262	0.0390342	0.0406077		4.6	+/-20
Aroclor-1260 (1)	A	250.00	261	0.0291201	0.0304302		4.4	
Aroclor-1260 (2)	A	250.00	261	0.0301181	0.0314386		4.4	
Aroclor-1260 (3)	A	250.00	260	0.0791351	0.0823535		4.0	
Aroclor-1260 (4)	A	250.00	253	0.0403003	0.0407991		1.2	
Aroclor-1260 (5)	A	250.00	273	0.0164974	0.0180173		9.2	
Aroclor 1260 [2C]	A	250.00	212	0.0617619	0.0482543		-15.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	239	0.0422283	0.0403893		-4.4	
Aroclor-1260 (2) [2C]	A	250.00	168	0.1059643	0.0712209		-32.8	
Aroclor-1260 (3) [2C]	A	250.00	256	0.0282173	0.0288416		2.4	
Aroclor-1260 (4) [2C]	A	250.00	186	0.0706376	0.0525653		-25.6	
Decachlorobiphenyl	A	40.000	43.3	0.7333327	0.7941732		8.3	+/-20
Tetrachlorometaxylene	A	40.000	41.1	1.1336710	1.1637160		2.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1785060		3.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.5	1.0966080	1.1112740		1.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272248ECD7.D
Data file 2: /221227.b/221227.b/12272248ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 28-DEC-2022 09:11
Report Date: 12/30/2022 14:46
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	164912	5.708	-0.001	105081	41.1	40.5	1.3	Tetrachloro-m-xylene
13.903	-0.001	273927	14.130	0.002	197187	43.3	41.5	4.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	283423	-36.7
Hexabromobiphenyl	798898	689842	-13.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	189118	-24.1
Hexabromobiphenyl	362541	334639	-7.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.289	0.000	26631	281.7	1	7.272	-0.000	24967	258.2
Aroclor-1016	2	7.676	0.004	83584	273.8	2	7.871	-0.000	44549	213.6
Aroclor-1016	3	7.811	0.002	40299	291.3	3	8.070	-0.001	22421	250.4
Aroclor-1016	4	8.422	-0.000	29291	332.2	4	8.242	-0.000	12831	272.5
	Total Col1Ave (4 peaks):				294.8	Total Col2Ave (4 peaks):				248.7 RPD = 17
	Corrected Ave (3 peaks):				282.3	Corrected Ave (3 peaks):				240.7 RPD = 16
			CalAmt %D:		17.9			CalAmt %D:		-0.5
Aroclor-1260	1	11.055	-0.000	65600	261.2	1	11.663	-0.000	42237	239.1
Aroclor-1260	2	11.372	0.000	67774	261.0	2	11.926	0.001	74479	168.0
Aroclor-1260	3	11.745	0.002	177534	260.2	3	12.444	-0.000	30161	255.5
Aroclor-1260	4	12.149	0.000	87953	253.1	4	12.508	-0.001	54970	186.0
Aroclor-1260	5	12.255	-0.000	38841	273.0	NS	---			----
	Total Col1Ave (5 peaks):				261.7	Total Col2Ave (4 peaks):				212.2 RPD = 21
	Corrected Ave (4 peaks):				258.9	Corrected Ave (3 peaks):				197.7 RPD = 27
			CalAmt %D:		4.7			CalAmt %D:		-15.1

Total PCB Area Col1 (5.931 - 13.803) = 1865106 Col1 Total PCB = 0.7 ppm*

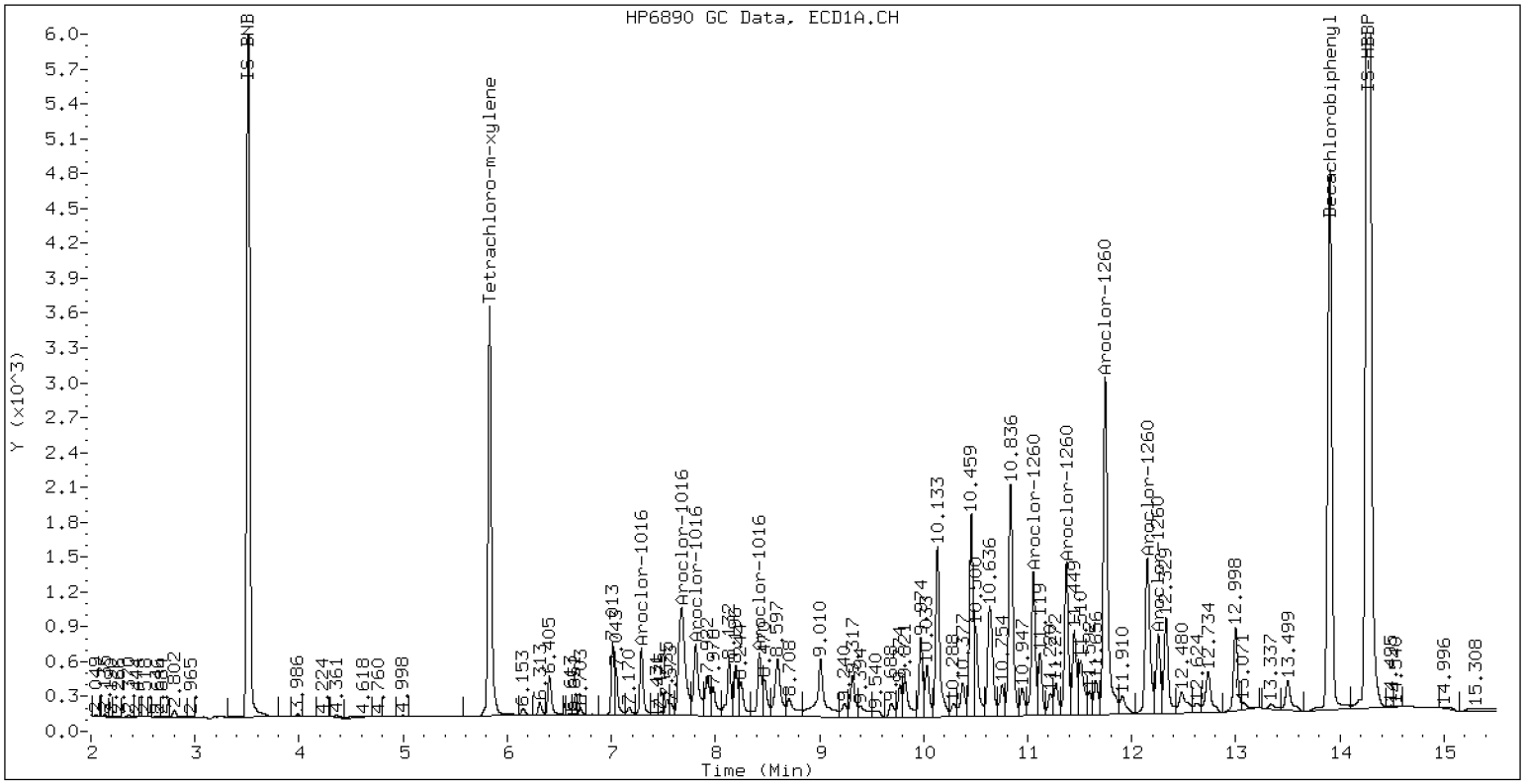
Total PCB Area Col2 (5.809 - 14.028) = 917097 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

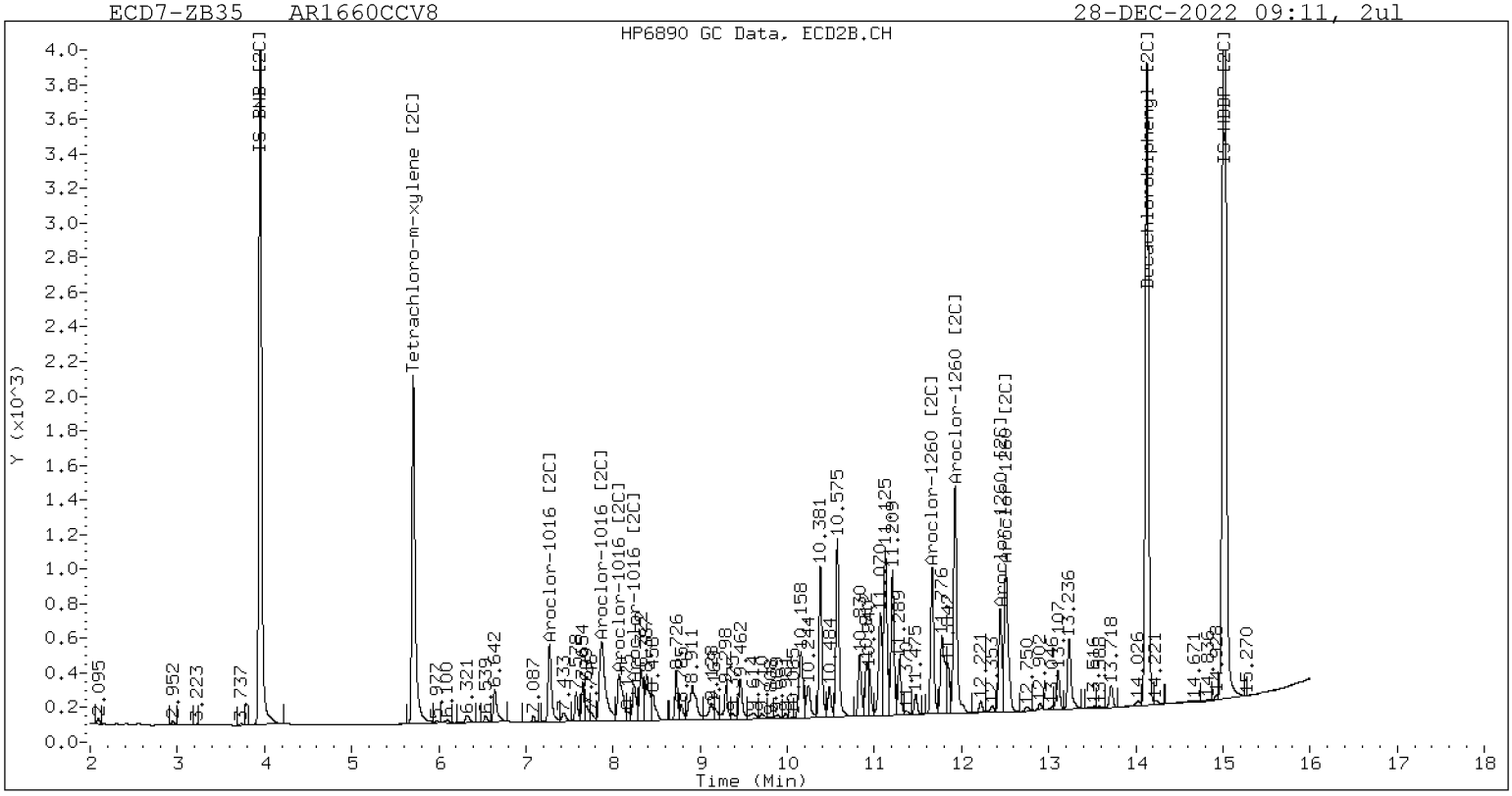
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 28-DEC-2022 09:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 28-DEC-2022 09:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272259ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCV9	Injection Time:	13:03
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	274	0.0396000	0.0435843		9.7	+/-20
Aroclor-1242 (1)	A	250.00	264		0.0239136			
Aroclor-1242 (2)	A	250.00	268		0.0772773			
Aroclor-1242 (3)	A	250.00	270		0.0223738			
Aroclor-1242 (4)	A	250.00	295		0.0507725			
Aroclor 1242 [2C]	A	250.00	274	0.0391981	0.0399894		9.5	+/-20
Aroclor-1242 (1) [2C]	A	250.00	272		0.0368940			
Aroclor-1242 (2) [2C]	A	250.00	210		0.0603214			
Aroclor-1242 (3) [2C]	A	250.00	297		0.0275369			
Aroclor-1242 (4) [2C]	A	250.00	316		0.0352055			
Decachlorobiphenyl	A	40.000	43.4	0.7333327	0.7956008		8.5	+/-20
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1124470		-2.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.6	1.1358180	1.2383780		9.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.2	1.0966080	1.1032180		0.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272259ECD7.D
Data file 2: /221227.b/221227.b/12272259ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 28-DEC-2022 13:03
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	181478	5.707	-0.002	123145	39.3	40.2	2.5	Tetrachloro-m-xylene
13.902	-0.002	243175	14.129	0.001	202211	43.4	43.6	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	326268	-27.1
Hexabromobiphenyl	798898	611299	-23.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	223247	-10.4
Hexabromobiphenyl	362541	326574	-9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1242	1	7.289	-0.006	24382	263.7	1	7.271	0.000	25739	272.4
Aroclor-1242	2	7.675	-0.011	78791	268.3	2	7.870	0.000	42083	209.8
Aroclor-1242	3	8.421	-0.008	22812	270.0	3	9.170	0.000	19211	296.9
Aroclor-1242	4	9.019	-0.012	51767	295.1	4	9.589	0.000	24561	315.8
Total Col1Ave (4 peaks):					274.3	Total Col2Ave (4 peaks):				273.7 RPD = 0
Corrected Ave (3 peaks):					267.3	Corrected Ave (3 peaks):				259.7 RPD = 3
CalAmt %D:					9.7	CalAmt %D:				9.5

Total PCB Area Col1 (5.931 - 13.803) = 744872 Col1 Total PCB = 0.2 ppm*

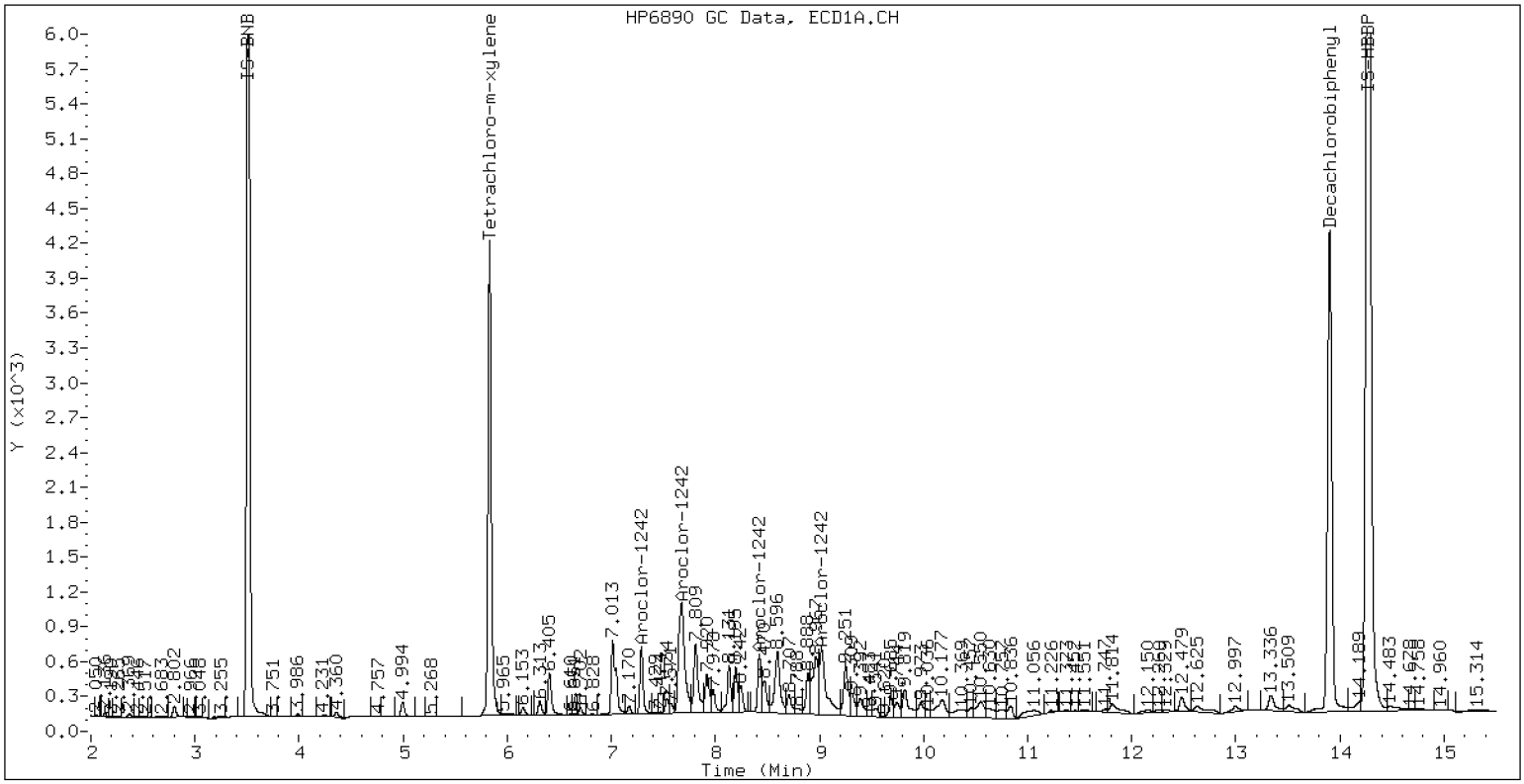
Total PCB Area Col2 (5.809 - 14.028) = 408313 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

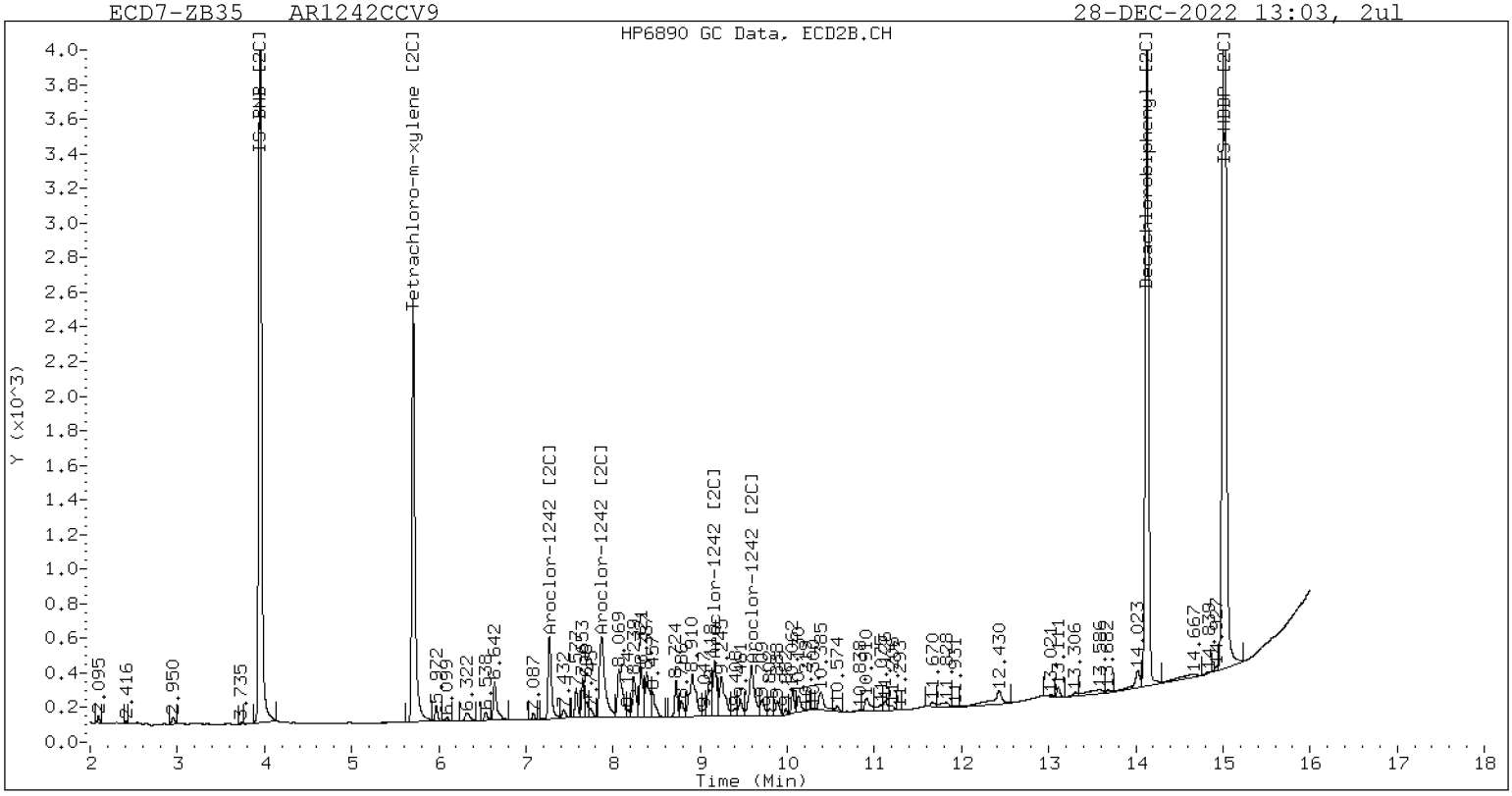
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 28-DEC-2022 13:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV9 28-DEC-2022 13:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272260ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCVA	Injection Time:	13:24
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	241	0.0441939	0.0418727		-3.7	+/-20	
Aroclor-1016 (1)	A	250.00	265	0.0266860	0.0283380		6.0		
Aroclor-1016 (2)	A	250.00	235	0.0861572	0.0809403		-6.0		
Aroclor-1016 (3)	A	250.00	214	0.0390425	0.0334156		-14.4		
Aroclor-1016 (4)	A	250.00	249	0.0248899	0.0247970		-0.4		
Aroclor 1016 [2C]	A	250.00	251	0.0467310	0.0444913		0.2	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	261	0.0409030	0.0426875		4.4		
Aroclor-1016 (2) [2C]	A	250.00	213	0.0882154	0.0751181		-14.8		
Aroclor-1016 (3) [2C]	A	250.00	252	0.0378846	0.0381669		0.8		
Aroclor-1016 (4) [2C]	A	250.00	276	0.0199212	0.0219926		10.4		
Aroclor 1260	A	250.00	287	0.0390342	0.0439910		14.7	+/-20	
Aroclor-1260 (1)	A	250.00	276	0.0291201	0.0321094		10.4		
Aroclor-1260 (2)	A	250.00	272	0.0301181	0.0327203		8.8		
Aroclor-1260 (3)	A	250.00	271	0.0791351	0.0859111		8.4		
Aroclor-1260 (4)	A	250.00	300	0.0403003	0.0483953		20.0		
Aroclor-1260 (5)	A	250.00	315	0.0164974	0.0208190		26.0		
Aroclor 1260 [2C]	A	250.00	231	0.0617619	0.0521863		-7.6	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	260	0.0422283	0.0439873		4.0		
Aroclor-1260 (2) [2C]	A	250.00	180	0.1059643	0.0762858		-28.0		
Aroclor-1260 (3) [2C]	A	250.00	284	0.0282173	0.0320199		13.6		
Aroclor-1260 (4) [2C]	A	250.00	200	0.0706376	0.0564523		-20.0		
Decachlorobiphenyl	A	40.000	48.2	0.7333327	0.8846759		20.5	+/-20	*
Tetrachlorometaxylene	A	40.000	40.4	1.1336710	1.1462720		1.0	+/-20	
Decachlorobiphenyl [2C]	A	40.000	44.0	1.1358180	1.2495150		10.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	41.3	1.0966080	1.1328530		3.3	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272260ECD7.D
Data file 2: /221227.b/221227.b/12272260ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 28-DEC-2022 13:24
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	160771	5.708	-0.001	108098	40.4	41.3	2.1	Tetrachloro-m-xylene
13.903	0.000	246967	14.129	0.001	187236	48.3	44.0	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	280511	-37.3
Hexabromobiphenyl	798898	558322	-30.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	190842	-23.4
Hexabromobiphenyl	362541	299694	-17.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.000	24841	265.5	1	7.272	-0.000	25458	260.9
Aroclor-1016	2	7.672	0.000	70952	234.9	2	7.872	0.001	44799	212.9
Aroclor-1016	3	7.809	0.000	29292	214.0	3	8.070	-0.002	22762	251.9
Aroclor-1016	4	8.423	0.000	21737	249.1	4	8.241	-0.001	13116	276.0
	Total Col1Ave (4 peaks):				240.8	Total Col2Ave (4 peaks):				250.4 RPD = 4
	Corrected Ave (3 peaks):				232.6	Corrected Ave (3 peaks):				241.9 RPD = 4
			CalAmt %D:		-3.7			CalAmt %D:		0.2
Aroclor-1260	1	11.055	0.000	56023	275.7	1	11.662	-0.001	41196	260.4
Aroclor-1260	2	11.372	0.000	57089	271.6	2	11.925	-0.001	71445	180.0
Aroclor-1260	3	11.744	0.000	149894	271.4	3	12.444	-0.001	29988	283.7
Aroclor-1260	4	12.149	0.000	84438	300.2	4	12.509	0.000	52870	199.8
Aroclor-1260	5	12.255	0.000	36324	315.5	NS	---			----
	Total Col1Ave (5 peaks):				286.9	Total Col2Ave (4 peaks):				231.0 RPD = 22
	Corrected Ave (4 peaks):				279.7	Corrected Ave (3 peaks):				213.4 RPD = 27
			CalAmt %D:		14.8			CalAmt %D:		-7.6

Total PCB Area Col1 (5.931 - 13.803) = 1523218 Col1 Total PCB = 0.6 ppm*

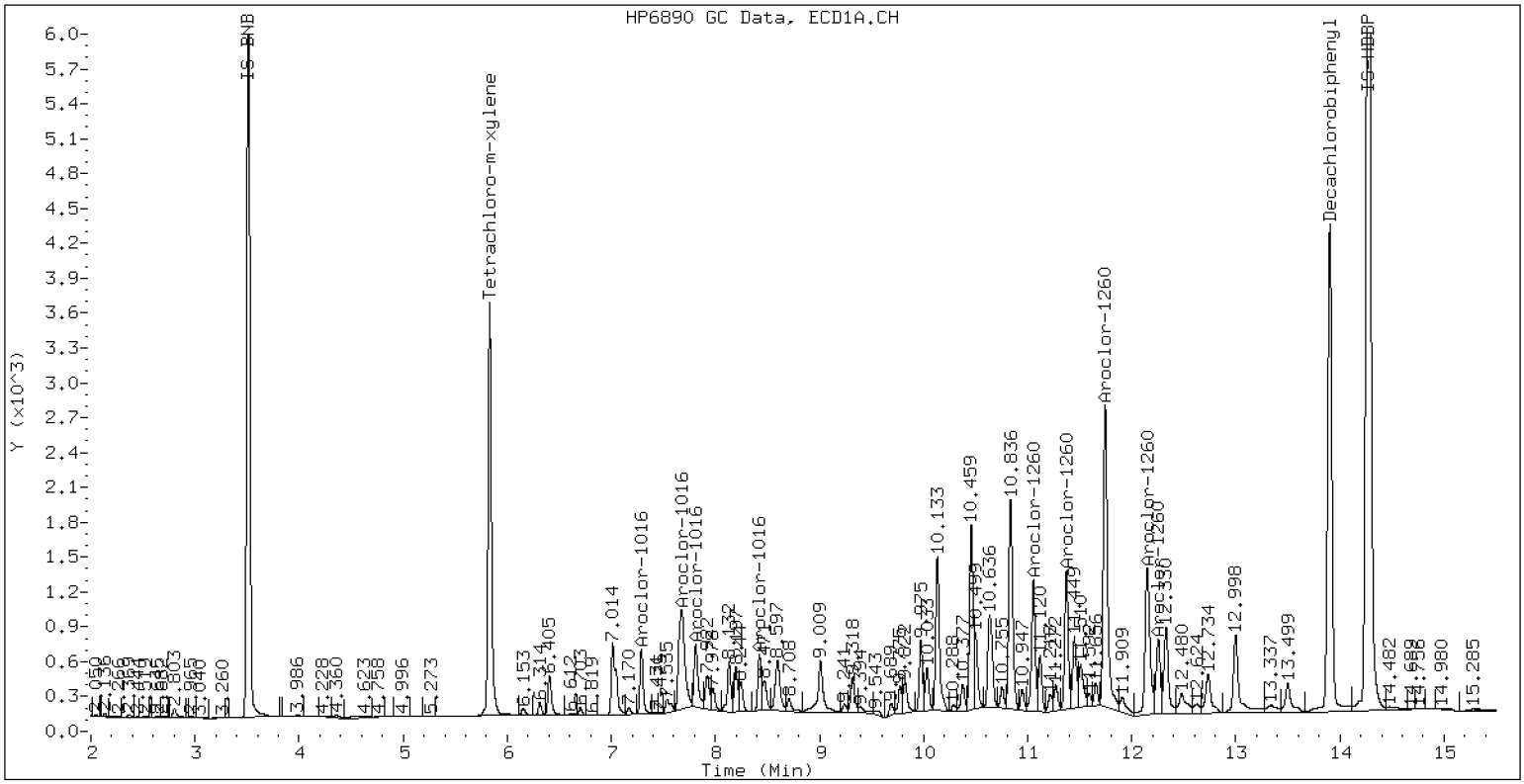
Total PCB Area Col2 (5.809 - 14.028) = 912444 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

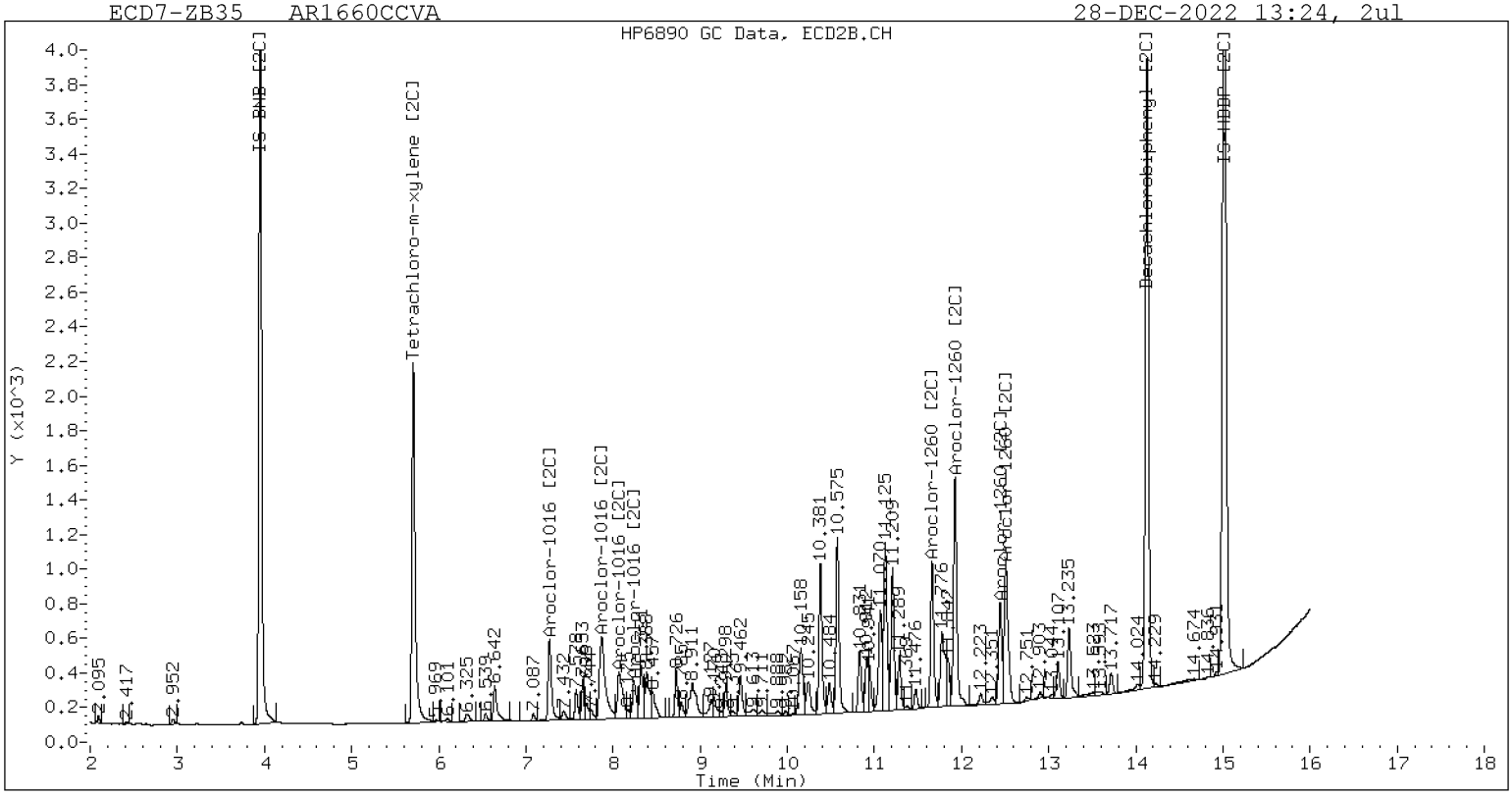
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 28-DEC-2022 13:24, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCVA 28-DEC-2022 13:24, 2ul

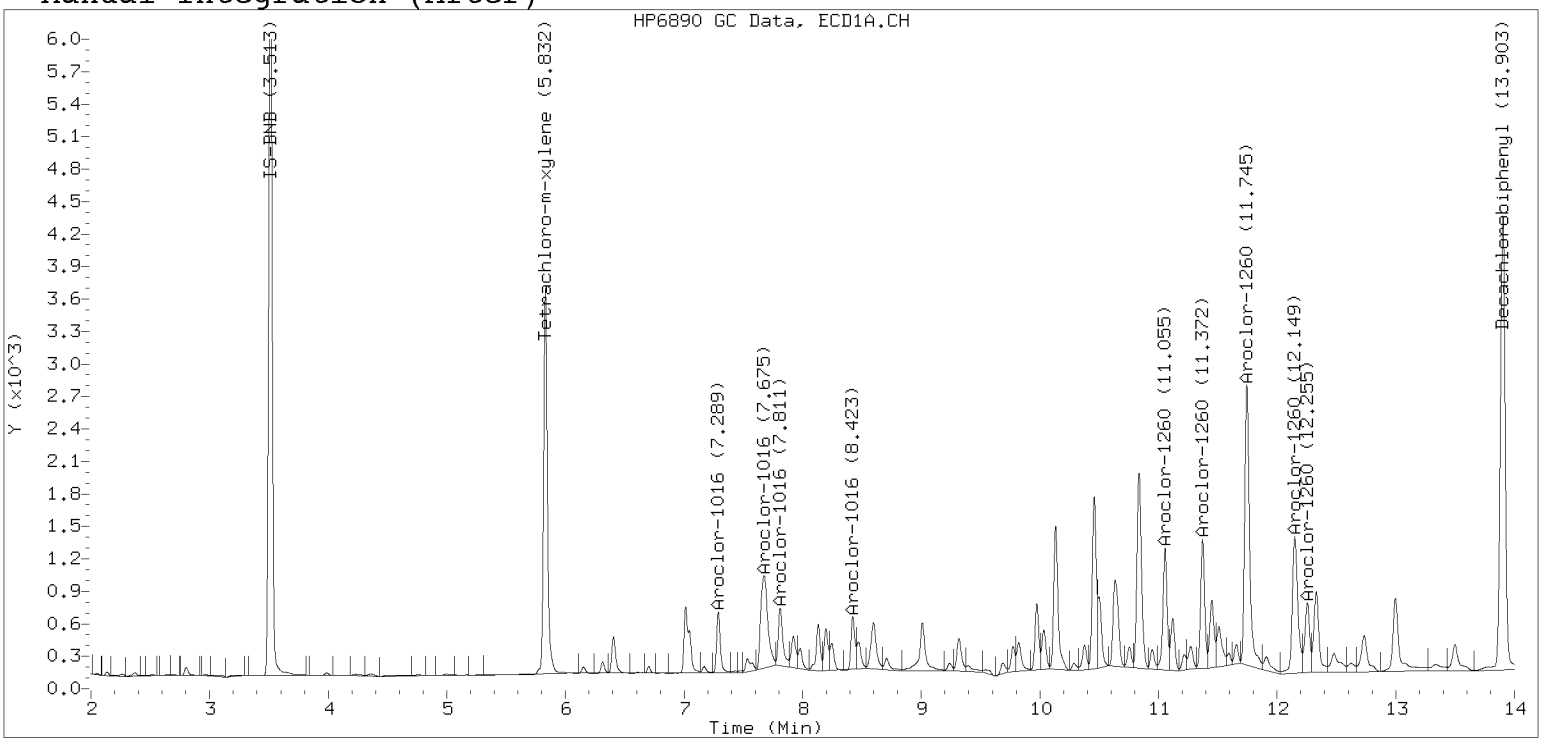


ZB-35 Manual Integration: NO

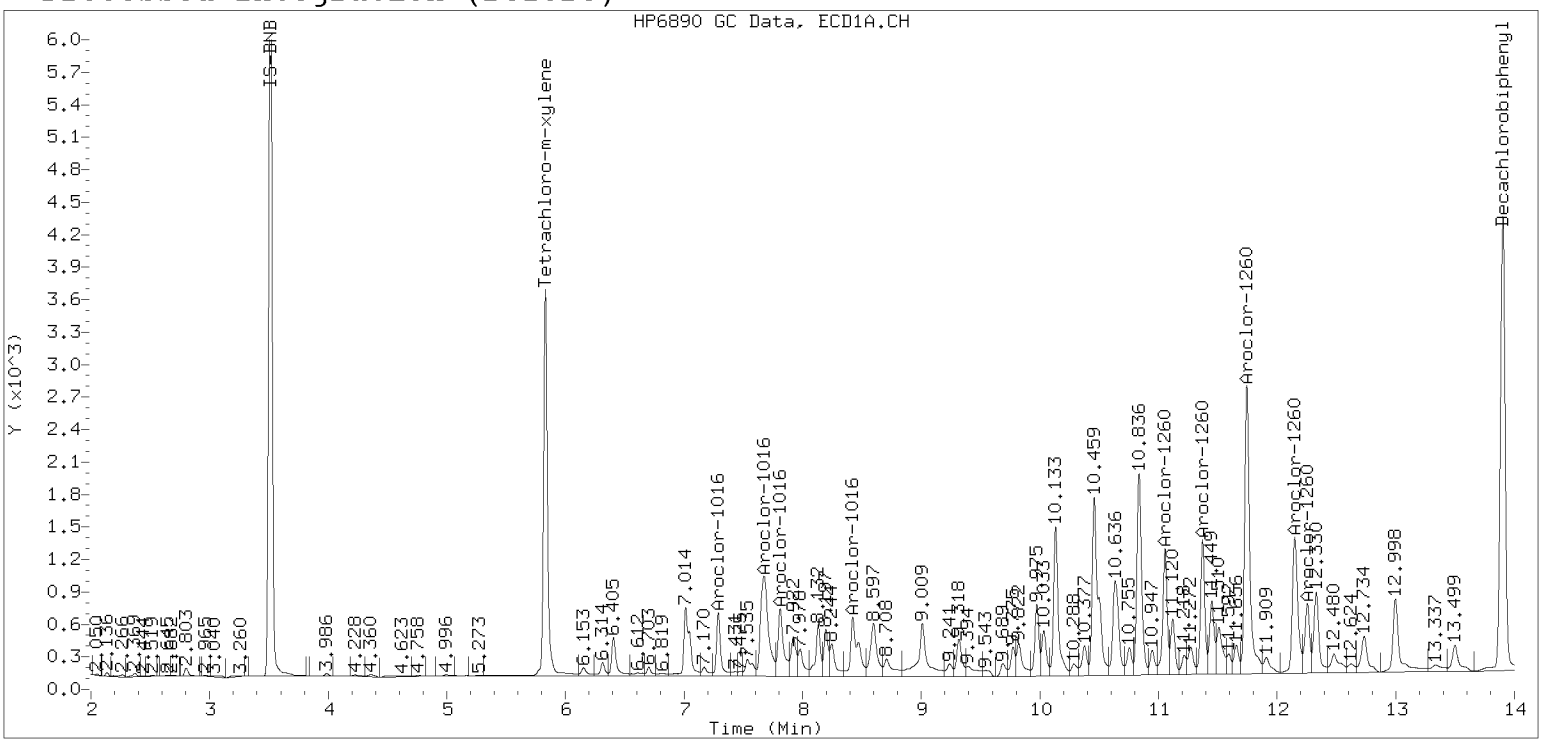
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221227.b/12272260ECD7.D Injection Date: 28-DEC-2022 13:24

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272271ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCVB	Injection Time:	17:16
Sequence Name:	AR1254CCVB		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	275	0.0576965	0.0641078		10.1	+/-20
Aroclor-1254 (1)	A	250.00	254		0.0717291			
Aroclor-1254 (2)	A	250.00	286		0.0313600			
Aroclor-1254 (3)	A	250.00	230		0.0410300			
Aroclor-1254 (4)	A	250.00	295		0.1024557			
Aroclor-1254 (5)	A	250.00	311		0.0739642			
Aroclor 1254 [2C]	A	250.00	243	0.0638047	0.0634893		-2.7	+/-20
Aroclor-1254 (1) [2C]	A	250.00	248		0.0512748			
Aroclor-1254 (2) [2C]	A	250.00	166		0.0274724			
Aroclor-1254 (3) [2C]	A	250.00	230		0.0821991			
Aroclor-1254 (4) [2C]	A	250.00	286		0.1055433			
Aroclor-1254 (5) [2C]	A	250.00	286		0.0509568			
Decachlorobiphenyl	A	40.000	43.2	0.7333327	0.7924182		8.0	+/-20
Tetrachlorometaxylene	A	40.000	38.6	1.1336710	1.0932320		-3.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.6	1.1358180	1.2393460		9.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.4	1.0966080	1.0523980		-4.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272271ECD7.D
Data file 2: /221227.b/221227.b/12272271ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCVB
Client ID:
Injection Date: 28-DEC-2022 17:16
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	197998	5.708	-0.000	129706	38.6	38.4	0.5	Tetrachloro-m-xylene
13.903	-0.001	344650	14.129	0.001	250154	43.2	43.6	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	362225	-19.1
Hexabromobiphenyl	798898	869869	8.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	246496	-1.0
Hexabromobiphenyl	362541	403687	11.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	-0.007	81194	254.6	1	9.461	0.000	39497	248.5
Aroclor-1254	2	9.393	-0.009	35498	286.2	2	9.979	0.000	21162	165.6
Aroclor-1254	3	9.685	-0.009	46444	230.6	3	10.130	0.000	63318	230.5
Aroclor-1254	4	9.819	-0.011	115975	295.4	4	10.379	0.000	81300	285.8
Aroclor-1254	5	10.174	-0.015	83724	311.1	5	10.576	0.000	39252	286.1
		Total Col1Ave (5 peaks):		275.6			Total Col2Ave (5 peaks):		243.3	RPD = 12
		Corrected Ave (4 peaks):		266.7			Corrected Ave (4 peaks):		232.6	RPD = 14
			CalAmt %D:	10.2				CalAmt %D:	-2.7	

Total PCB Area Col1 (5.931 - 13.803) = 1270304 Col1 Total PCB = 0.4 ppm*

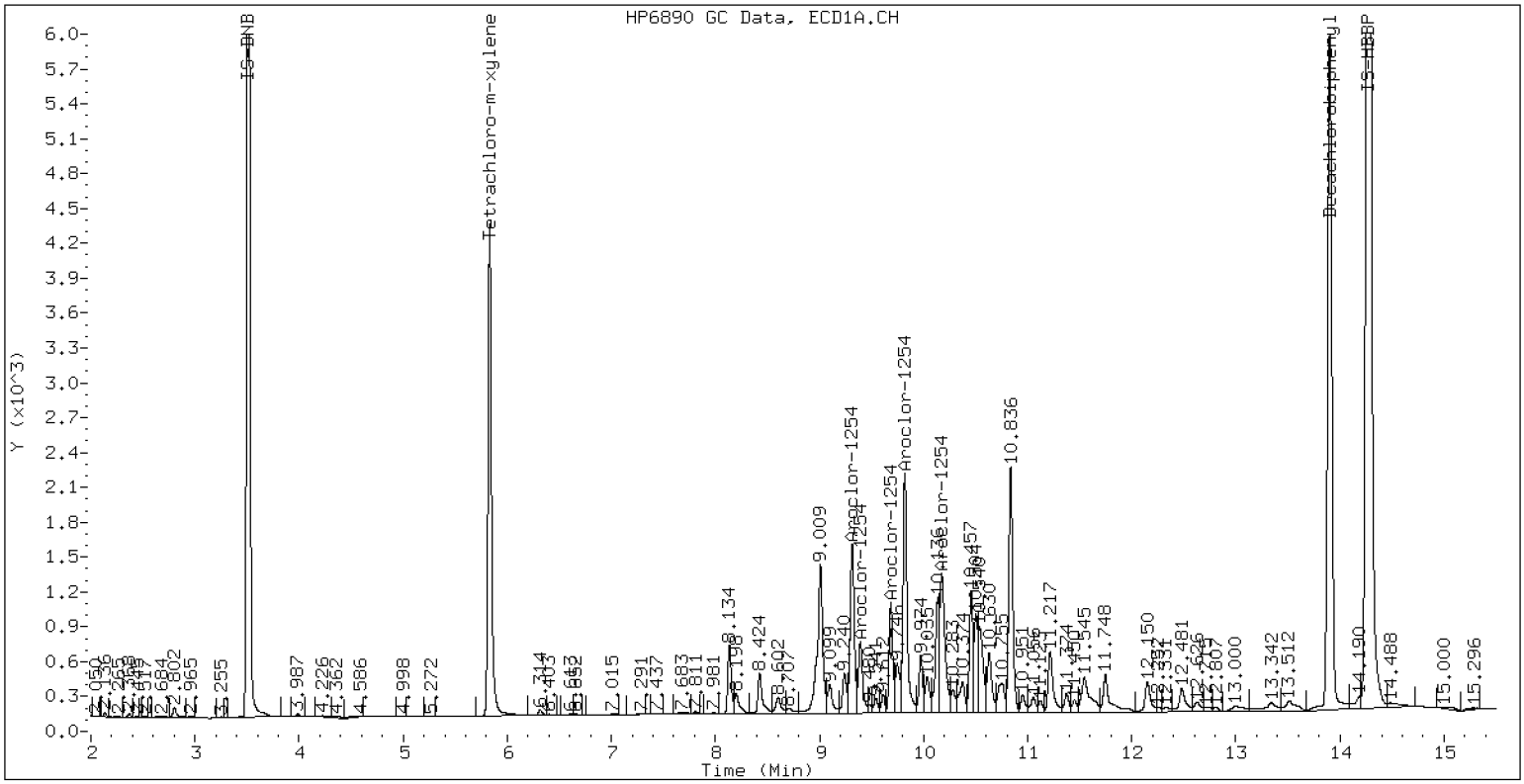
Total PCB Area Col2 (5.809 - 14.028) = 713292 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

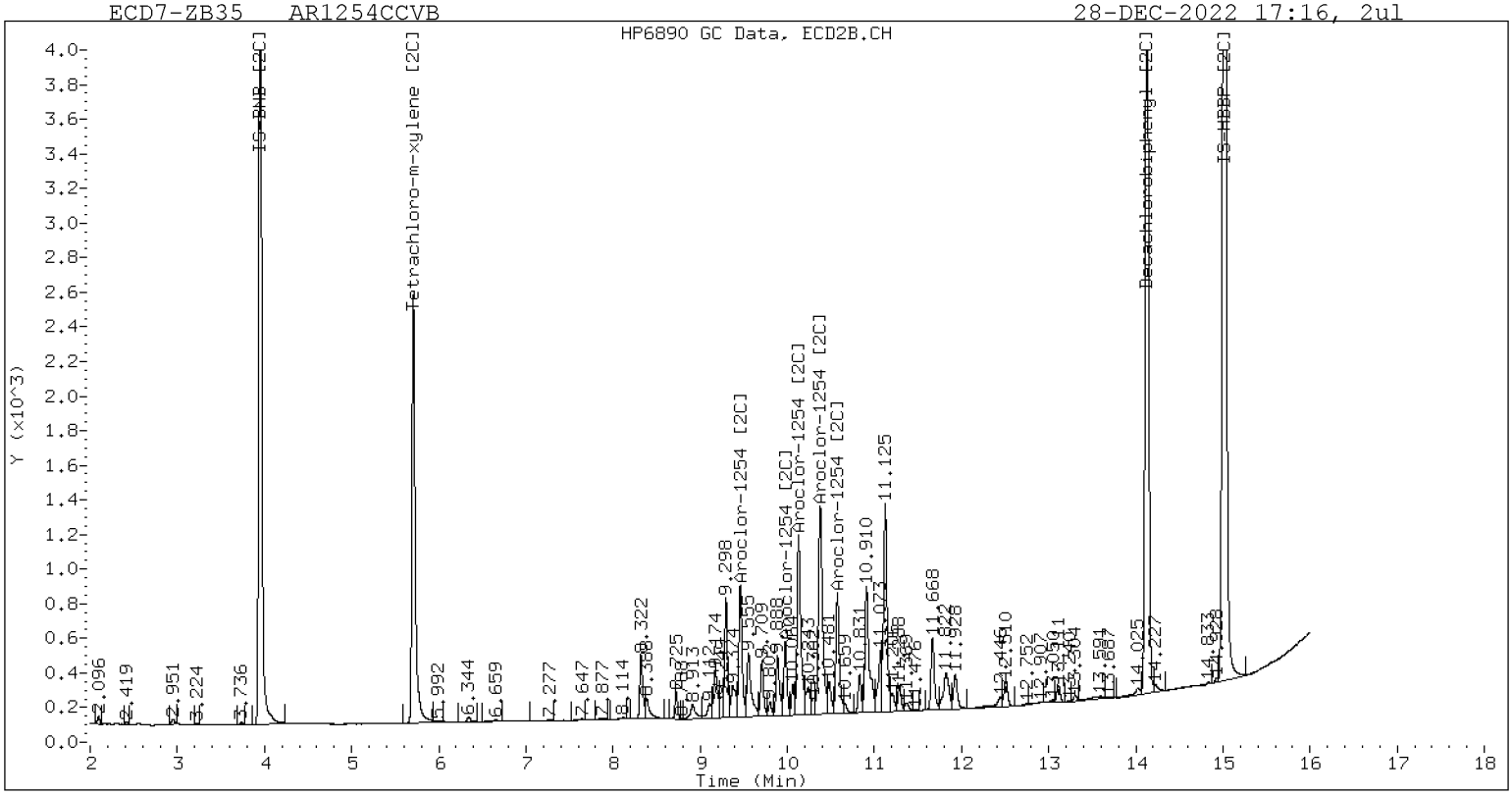
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCVB 28-DEC-2022 17:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCVB 28-DEC-2022 17:16, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12272272ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0377	Injection Date:	12/28/22
Lab Sample ID:	SKL0377-CCVC	Injection Time:	17:38
Sequence Name:	AR1660CCVC		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	296	0.0441939	0.0510559		18.5	+/-20
Aroclor-1016 (1)	A	250.00	283	0.0266860	0.0301814		13.2	
Aroclor-1016 (2)	A	250.00	275	0.0861572	0.0949421		10.0	
Aroclor-1016 (3)	A	250.00	295	0.0390425	0.0460698		18.0	
Aroclor-1016 (4)	A	250.00	332	0.0248899	0.0330304		32.8	
Aroclor 1016 [2C]	A	250.00	250	0.0467310	0.0444724		-0.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	257	0.0409030	0.0420754		2.8	
Aroclor-1016 (2) [2C]	A	250.00	214	0.0882154	0.0755594		-14.4	
Aroclor-1016 (3) [2C]	A	250.00	253	0.0378846	0.0383336		1.2	
Aroclor-1016 (4) [2C]	A	250.00	275	0.0199212	0.0219213		10.0	
Aroclor 1260	A	250.00	258	0.0390342	0.0400690		3.2	+/-20
Aroclor-1260 (1)	A	250.00	256	0.0291201	0.0298210		2.4	
Aroclor-1260 (2)	A	250.00	257	0.0301181	0.0309962		2.8	
Aroclor-1260 (3)	A	250.00	256	0.0791351	0.0811564		2.4	
Aroclor-1260 (4)	A	250.00	251	0.0403003	0.0405413		0.4	
Aroclor-1260 (5)	A	250.00	270	0.0164974	0.0178299		8.0	
Aroclor 1260 [2C]	A	250.00	219	0.0617619	0.0495281		-12.4	+/-20
Aroclor-1260 (1) [2C]	A	250.00	247	0.0422283	0.0417341		-1.2	
Aroclor-1260 (2) [2C]	A	250.00	172	0.1059643	0.0727153		-31.2	
Aroclor-1260 (3) [2C]	A	250.00	267	0.0282173	0.0300973		6.8	
Aroclor-1260 (4) [2C]	A	250.00	190	0.0706376	0.0535659		-24.0	
Decachlorobiphenyl	A	40.000	44.7	0.7333327	0.8192612		11.8	+/-20
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1692180		3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.4	1.1358180	1.2319500		8.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.1	1.0966080	1.1280760		2.8	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221227.b/12272272ECD7.D
Data file 2: /221227.b/221227.b/12272272ECD7.D
Method: \\target\share\chem4\ecd7.i\221227.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVC
Client ID:
Injection Date: 28-DEC-2022 17:38
Report Date: 12/30/2022 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	164616	5.709	0.000	108676	41.3	41.1	0.3	Tetrachloro-m-xylene
13.902	-0.001	288212	14.128	0.000	206279	44.7	43.4	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	281583	-37.1
Hexabromobiphenyl	798898	703590	-11.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	192675	-22.6
Hexabromobiphenyl	362541	334882	-7.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	26558	282.7	1	7.272	0.000	25334	257.2
Aroclor-1016	2	7.677	0.005	83544	275.5	2	7.871	0.000	45495	214.1
Aroclor-1016	3	7.811	0.002	40539	295.0	3	8.071	0.000	23081	253.0
Aroclor-1016	4	8.424	0.001	29065	331.8	4	8.242	0.000	13199	275.1
Total Col1Ave (4 peaks):					296.2	Total Col2Ave (4 peaks):				249.8 RPD = 17
Corrected Ave (3 peaks):					284.4	Corrected Ave (3 peaks):				241.4 RPD = 16
CalAmt %D:					18.5	CalAmt %D:				-0.1
Aroclor-1260	1	11.056	0.000	65568	256.0	1	11.663	0.000	43675	247.1
Aroclor-1260	2	11.372	0.000	68152	257.3	2	11.926	0.000	76097	171.6
Aroclor-1260	3	11.746	0.002	178440	256.4	3	12.444	0.000	31497	266.7
Aroclor-1260	4	12.150	0.001	89139	251.5	4	12.509	0.000	56057	189.6
Aroclor-1260	5	12.255	-0.000	39203	270.2	NS	---			----
Total Col1Ave (5 peaks):					258.3	Total Col2Ave (4 peaks):				218.7 RPD = 17
Corrected Ave (4 peaks):					255.3	Corrected Ave (3 peaks):				202.7 RPD = 23
CalAmt %D:					3.3	CalAmt %D:				-12.5

Total PCB Area Col1 (5.931 - 13.803) = 1868810 Col1 Total PCB = 0.7 ppm*

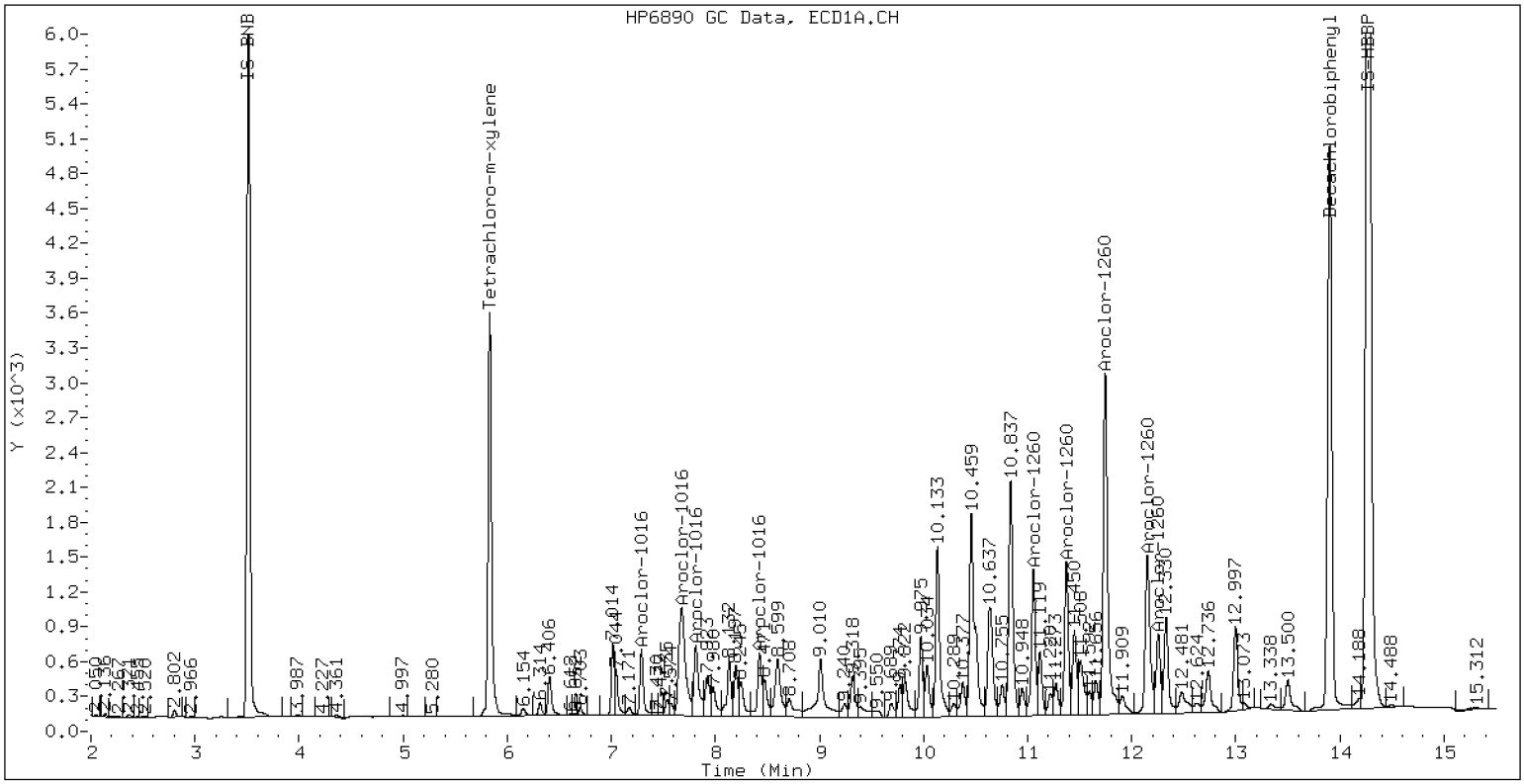
Total PCB Area Col2 (5.809 - 14.028) = 948646 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

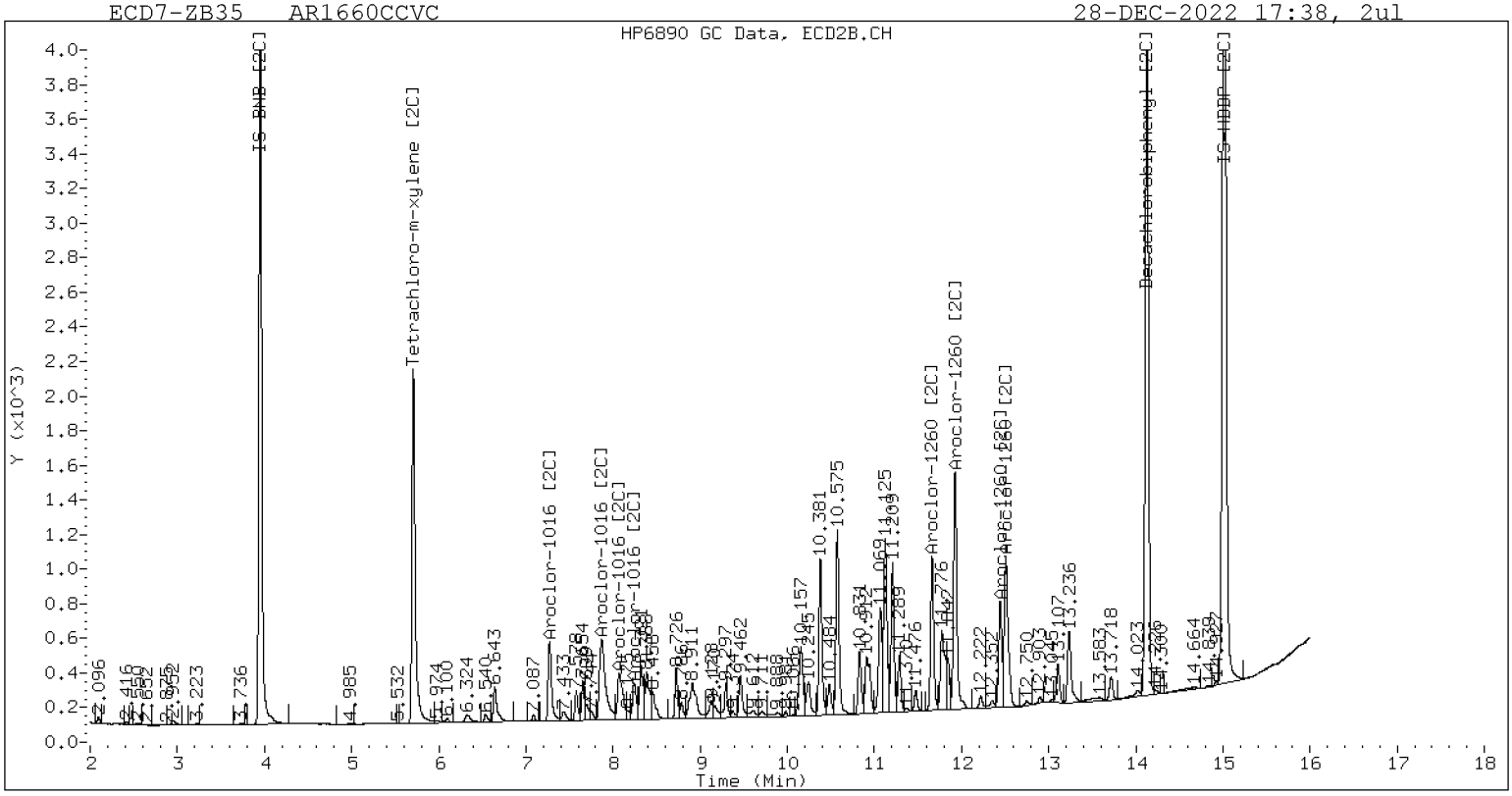
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVC 28-DEC-2022 17:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVC 28-DEC-2022 17:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302208ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/30/22
Lab Sample ID:	SLA0035-CCV1	Injection Time:	13:47
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	259	0.0490062	0.0524527		3.6	
Aroclor-1248 (1)	A	250.00	276		0.0379882			
Aroclor-1248 (2)	A	250.00	296		0.0520985			
Aroclor-1248 (3)	A	250.00	296		0.0936549			
Aroclor-1248 (4)	A	250.00	168		0.0260692			
Aroclor 1248 [2C]	A	250.00	248	0.0394876	0.0395387		-0.8	
Aroclor-1248 (1) [2C]	A	250.00	256		0.0334053			
Aroclor-1248 (2) [2C]	A	250.00	200		0.0274615			
Aroclor-1248 (3) [2C]	A	250.00	270		0.0451618			
Aroclor-1248 (4) [2C]	A	250.00	266		0.0521262			
Decachlorobiphenyl	A	40.000	41.7	0.7333327	0.7638370		4.3	
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0552420		-7.0	
Decachlorobiphenyl [2C]	A	40.000	39.8	1.1358180	1.1307420		-0.5	
Tetrachlorometaxylene [2C]	A	40.000	36.6	1.0966080	1.0050190		-8.5	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302208ECD7.D
Data file 2: /221230.b/221230.b/12302208ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 30-DEC-2022 13:47
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	185767	5.709	-0.001	118956	37.2	36.7	1.6	Tetrachloro-m-xylene
13.903	0.001	355607	14.128	-0.000	245729	41.7	39.8	4.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	352084	-21.3
Hexabromobiphenyl	798898	931107	16.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	236724	-5.0
Hexabromobiphenyl	362541	434633	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.424	0.000	41797	276.1	1	8.322	0.000	24712	255.5
Aroclor-1248	2	8.599	0.000	57322	296.6	2	8.728	0.000	20315	199.7
Aroclor-1248	3	9.018	0.000	103045	296.4	3	9.174	0.000	33409	270.0
Aroclor-1248	4	9.310	0.000	28683	168.4	4	9.596	0.000	38561	265.5
Total Col1Ave (4 peaks):					259.4	Total Col2Ave (4 peaks):				247.7 RPD = 5
Corrected Ave (3 peaks):					246.9	Corrected Ave (3 peaks):				240.3 RPD = 3
CalAmt %D:					3.7	CalAmt %D:				-0.9

Total PCB Area Col1 (5.933 - 13.802) = 1058249 Col1 Total PCB = 0.3 ppm*

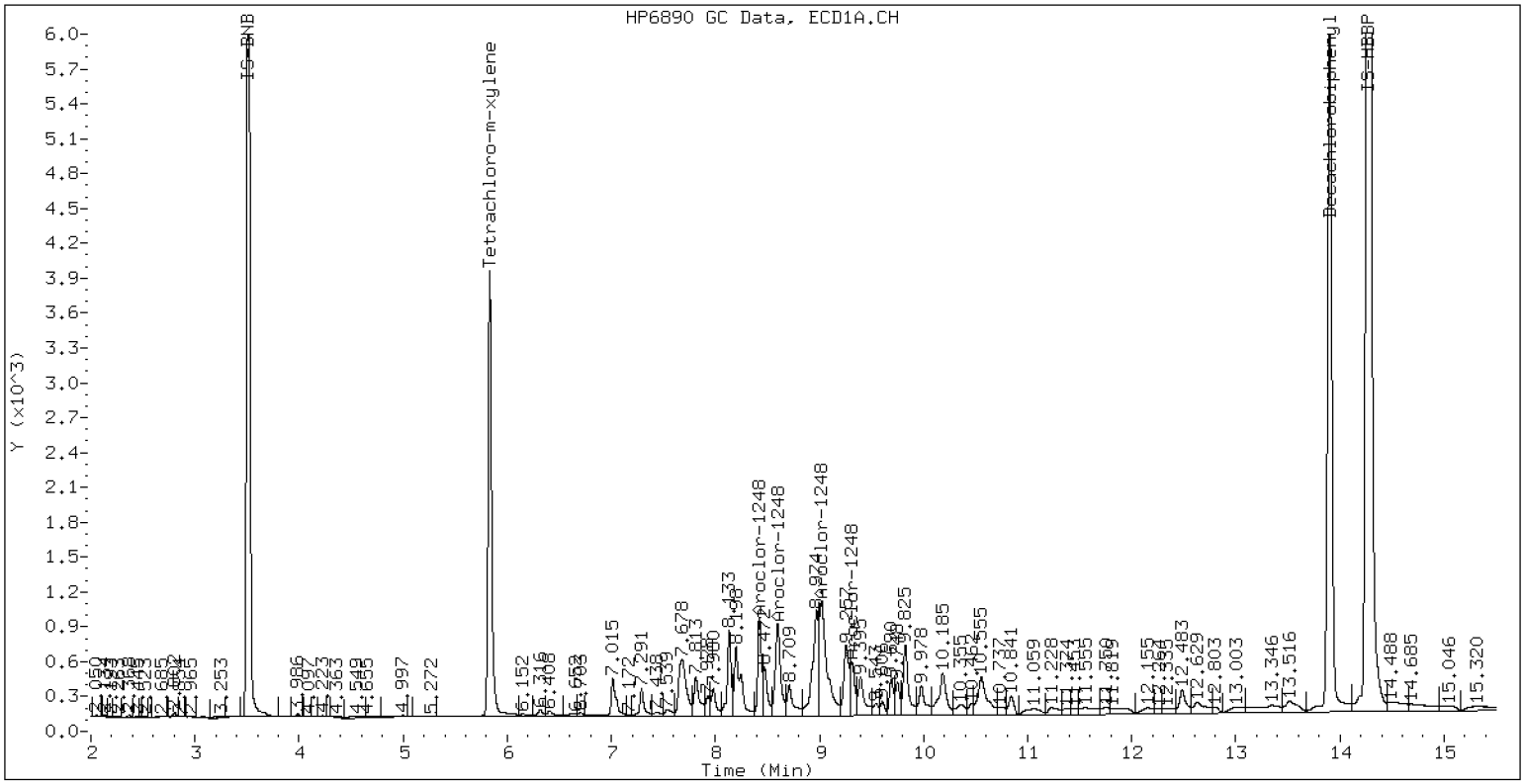
Total PCB Area Col2 (5.810 - 14.028) = 483029 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

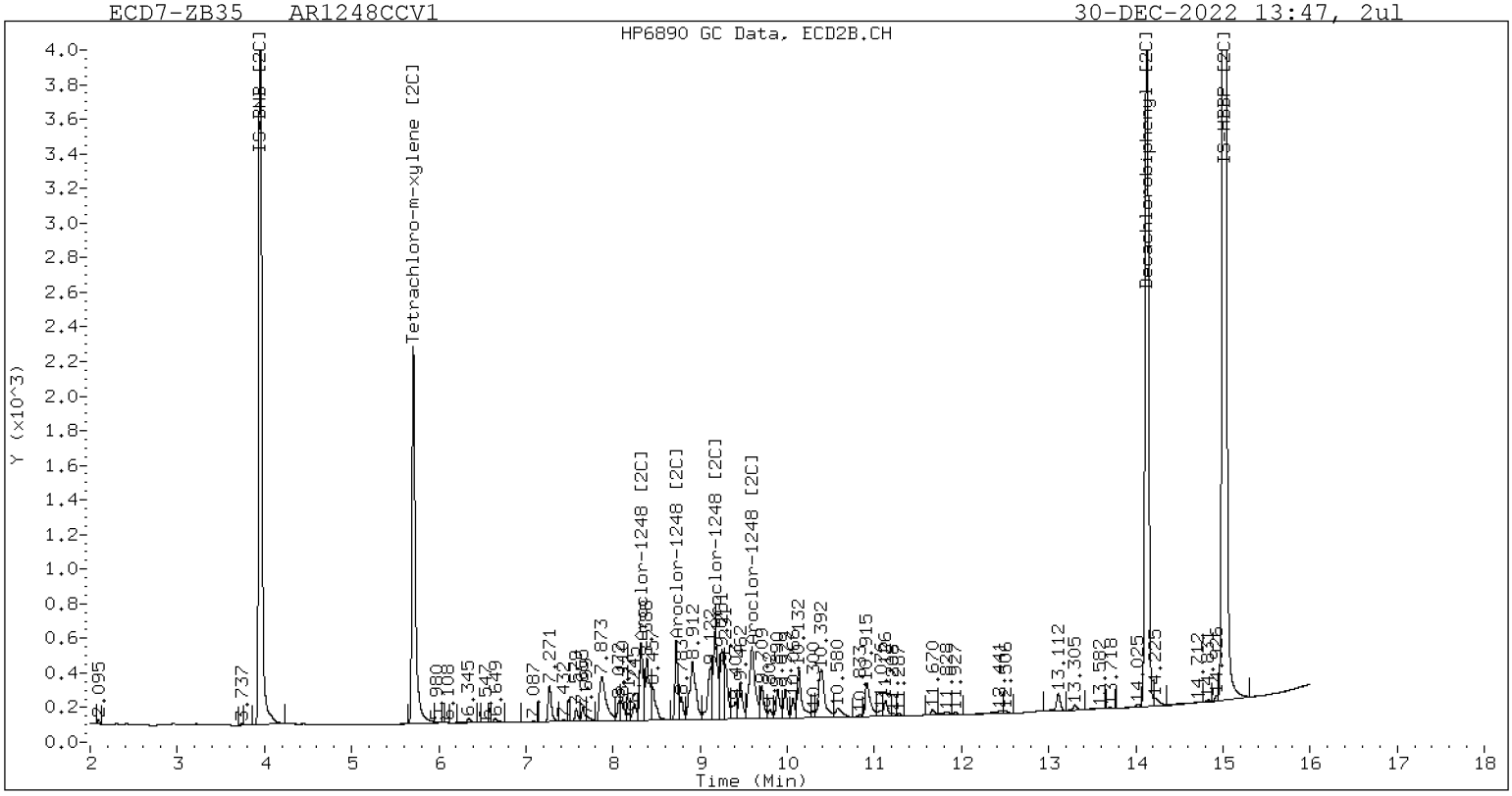
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 30-DEC-2022 13:47, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248CCV1 30-DEC-2022 13:47, 2ul

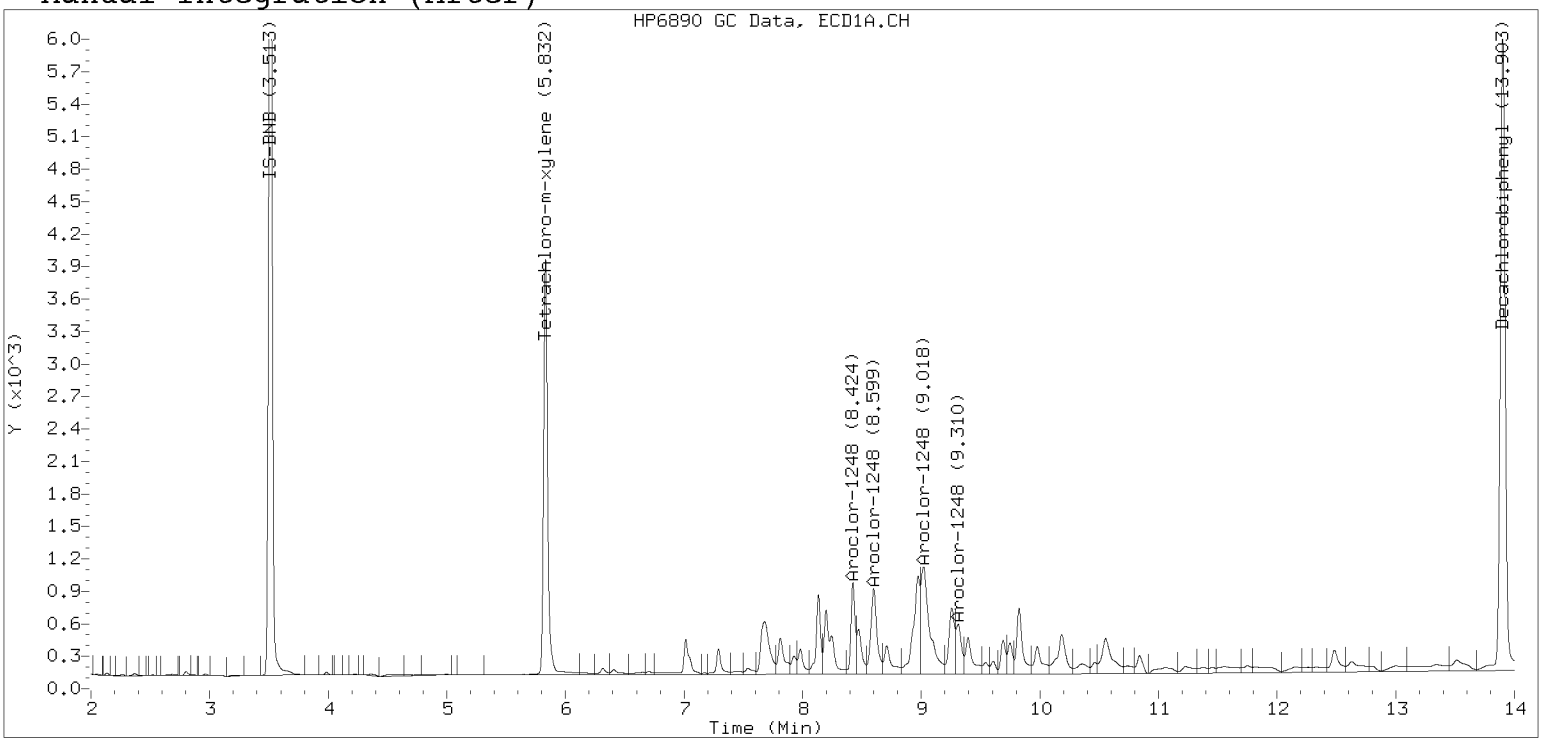


ZB-35 Manual Integration: NO

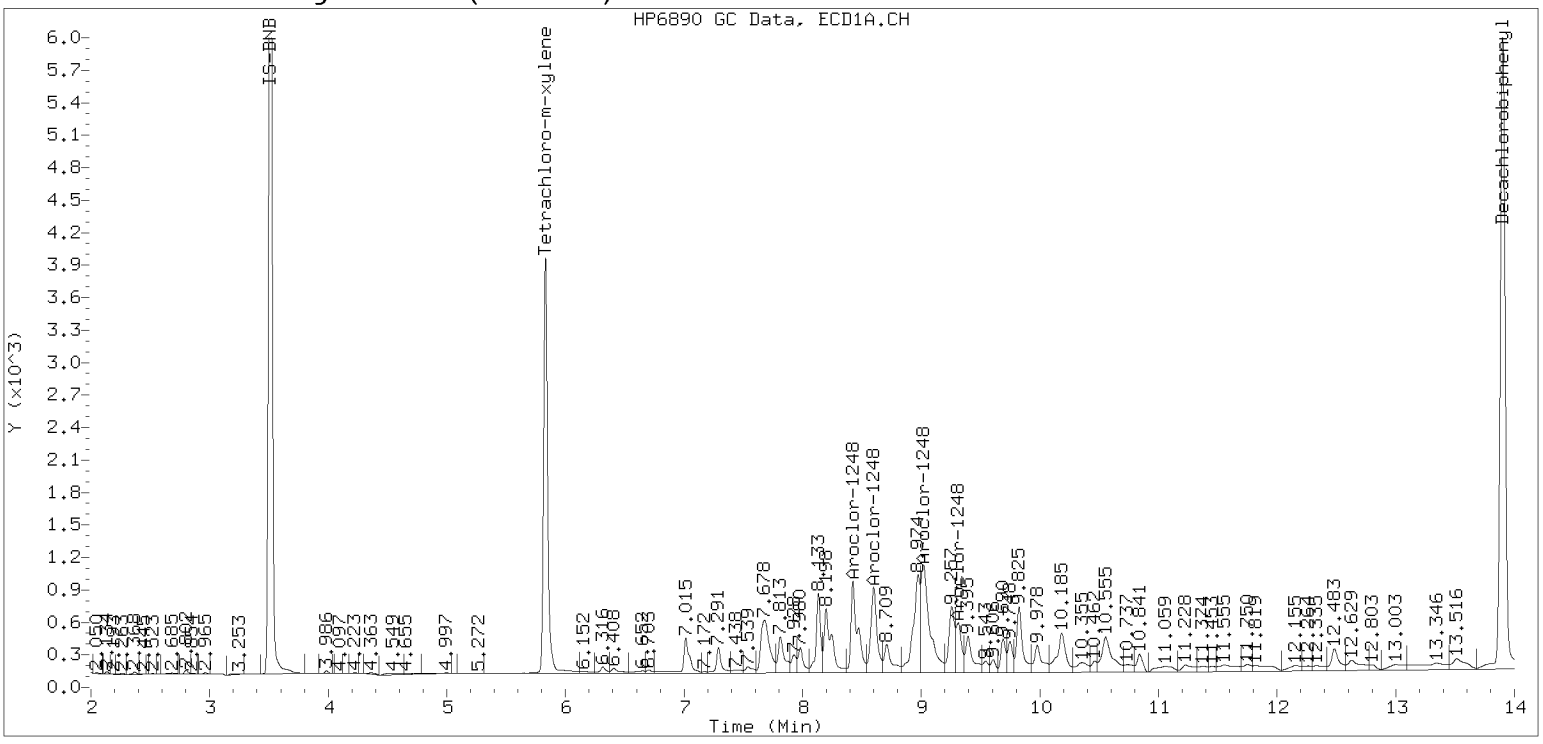
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221230.b/12302208ECD7.D Injection Date: 30-DEC-2022 13:47

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302209ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/30/22
Lab Sample ID:	SLA0035-CCV2	Injection Time:	14:09
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	255	0.0441939	0.0448510		2.0	
Aroclor-1016 (1)	A	250.00	245	0.0266860	0.0261945		-2.0	
Aroclor-1016 (2)	A	250.00	249	0.0861572	0.0858981		-0.4	
Aroclor-1016 (3)	A	250.00	264	0.0390425	0.0412630		5.6	
Aroclor-1016 (4)	A	250.00	262	0.0248899	0.0260485		4.8	
Aroclor 1016 [2C]	A	250.00	238	0.0467310	0.0422966		-4.8	
Aroclor-1016 (1) [2C]	A	250.00	246	0.0409030	0.0402998		-1.6	
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0711427		-19.2	
Aroclor-1016 (3) [2C]	A	250.00	244	0.0378846	0.0370137		-2.4	
Aroclor-1016 (4) [2C]	A	250.00	260	0.0199212	0.0207303		4.0	
Aroclor 1260	A	250.00	242	0.0390342	0.0375269		-3.2	
Aroclor-1260 (1)	A	250.00	238	0.0291201	0.0277273		-4.8	
Aroclor-1260 (2)	A	250.00	239	0.0301181	0.0288055		-4.4	
Aroclor-1260 (3)	A	250.00	240	0.0791351	0.0761370		-4.0	
Aroclor-1260 (4)	A	250.00	235	0.0403003	0.0379063		-6.0	
Aroclor-1260 (5)	A	250.00	258	0.0164974	0.0170586		3.2	
Aroclor 1260 [2C]	A	250.00	202	0.0617619	0.0459827		-19.3	
Aroclor-1260 (1) [2C]	A	250.00	224	0.0422283	0.0377601		-10.4	
Aroclor-1260 (2) [2C]	A	250.00	160	0.1059643	0.0676274		-36.0	
Aroclor-1260 (3) [2C]	A	250.00	242	0.0282173	0.0272698		-3.2	
Aroclor-1260 (4) [2C]	A	250.00	181	0.0706376	0.0512734		-27.6	
Decachlorobiphenyl	A	40.000	43.5	0.7333327	0.7974861		8.8	
Tetrachlorometaxylene	A	40.000	39.3	1.1336710	1.1138810		-1.8	
Decachlorobiphenyl [2C]	A	40.000	40.2	1.1358180	1.1412430		0.5	
Tetrachlorometaxylene [2C]	A	40.000	40.2	1.0966080	1.1014950		0.5	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302209ECD7.D
Data file 2: /221230.b/221230.b/12302209ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 30-DEC-2022 14:09
Report Date: 01/04/2023 13:17
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	142804	5.709	0.000	93534	39.3	40.2	2.2	Tetrachloro-m-xylene
13.904	0.000	269459	14.127	0.000	185379	43.5	40.2	7.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	256408	-42.7
Hexabromobiphenyl	798898	675771	-15.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	169831	-31.8
Hexabromobiphenyl	362541	324872	-10.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.000	20989	245.4	1	7.272	0.000	21388	246.3
Aroclor-1016	2	7.679	0.000	68828	249.2	2	7.873	0.000	37757	201.6
Aroclor-1016	3	7.812	0.000	33063	264.2	3	8.071	0.000	19644	244.3
Aroclor-1016	4	8.423	0.000	20872	261.6	4	8.242	0.000	11002	260.2
Total Col1Ave (4 peaks):					255.1	Total Col2Ave (4 peaks):				238.1 RPD = 7
Corrected Ave (3 peaks):					252.1	Corrected Ave (3 peaks):				230.7 RPD = 9
CalAmt %D:					2.0	CalAmt %D:				-4.8
Aroclor-1260	1	11.056	0.000	58554	238.0	1	11.661	0.000	38335	223.5
Aroclor-1260	2	11.372	0.000	60831	239.1	2	11.925	0.000	68657	159.6
Aroclor-1260	3	11.746	0.000	160785	240.5	3	12.445	0.000	27685	241.6
Aroclor-1260	4	12.151	0.000	80050	235.1	4	12.507	0.000	52054	181.5
Aroclor-1260	5	12.256	0.000	36024	258.5	NS	---			----
Total Col1Ave (5 peaks):					242.3	Total Col2Ave (4 peaks):				201.5 RPD = 18
Corrected Ave (4 peaks):					238.2	Corrected Ave (3 peaks):				188.2 RPD = 23
CalAmt %D:					-3.1	CalAmt %D:				-19.4

Total PCB Area Col1 (5.932 - 13.804) = 1619646 Col1 Total PCB = 0.7 ppm*

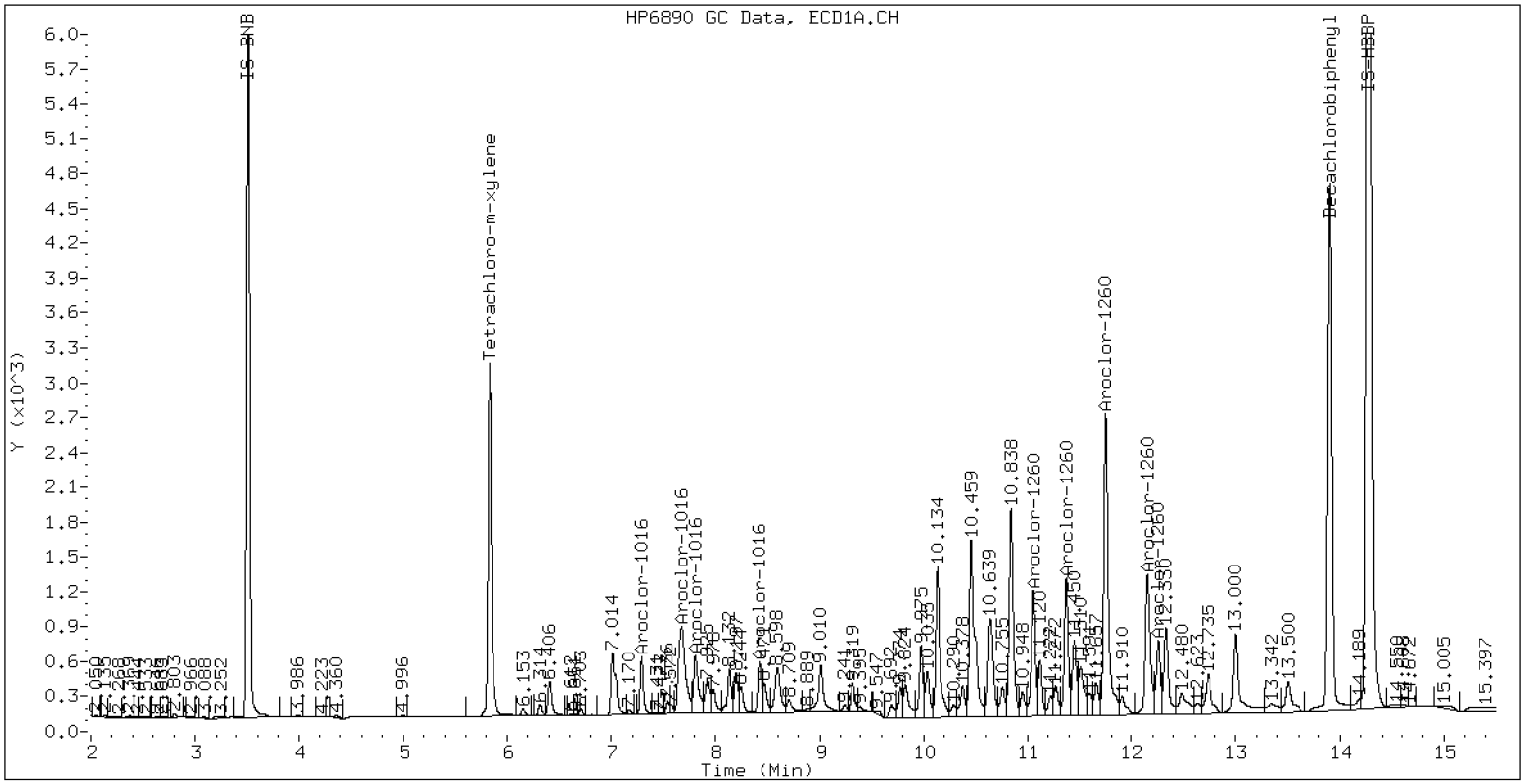
Total PCB Area Col2 (5.809 - 14.027) = 838747 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

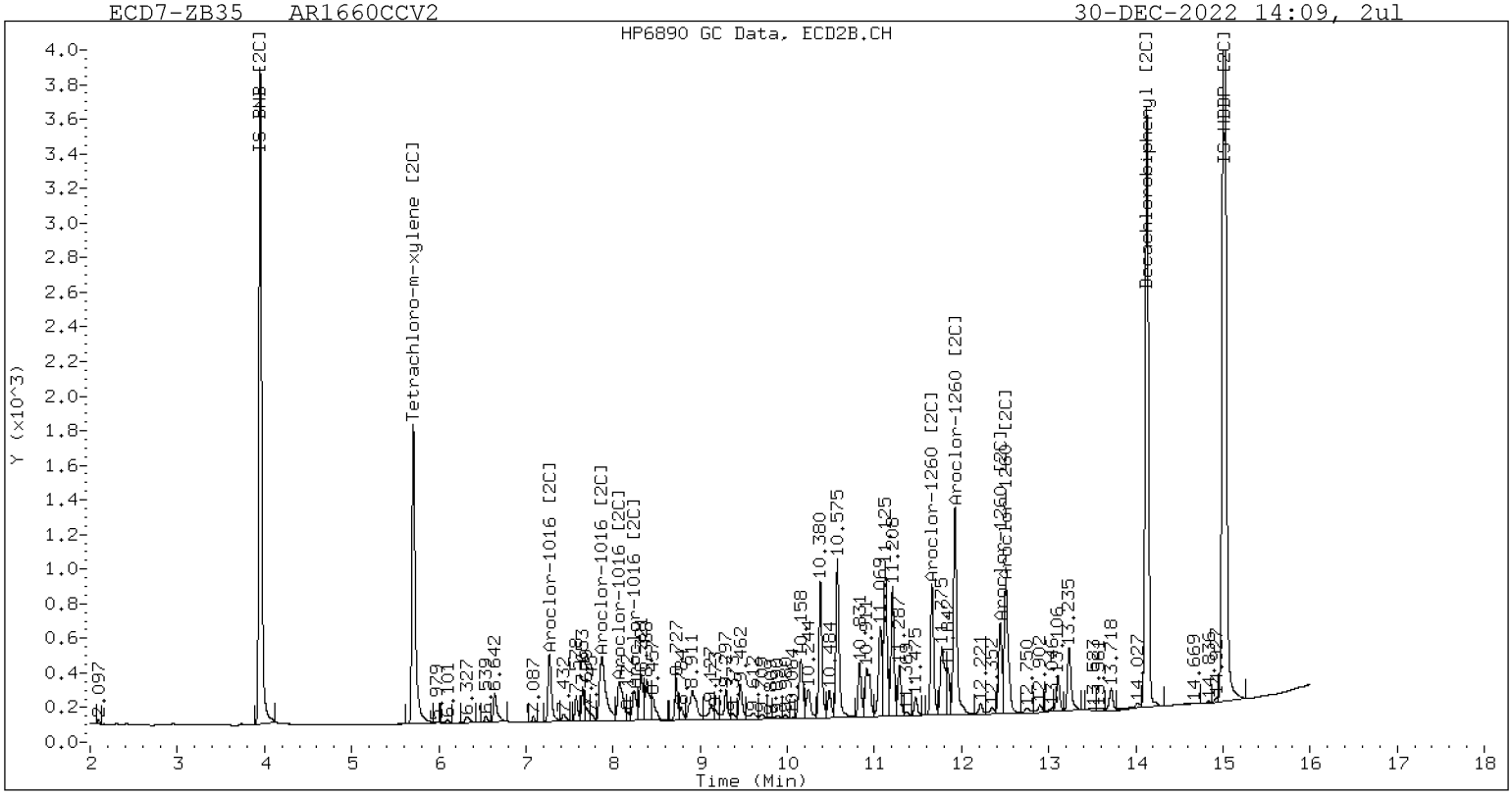
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 30-DEC-2022 14:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 30-DEC-2022 14:09, 2ul

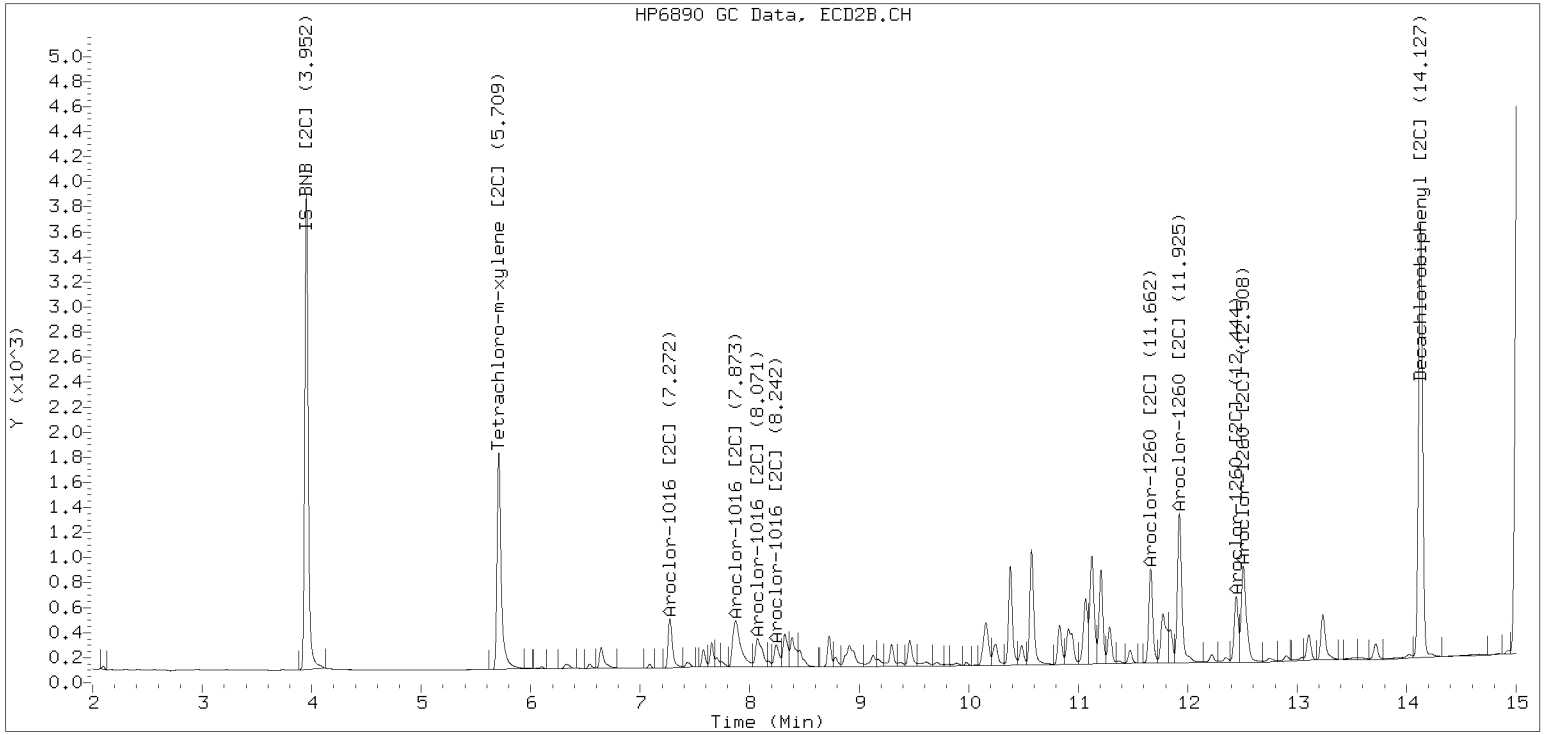


ZB-35 Manual Integration: YES

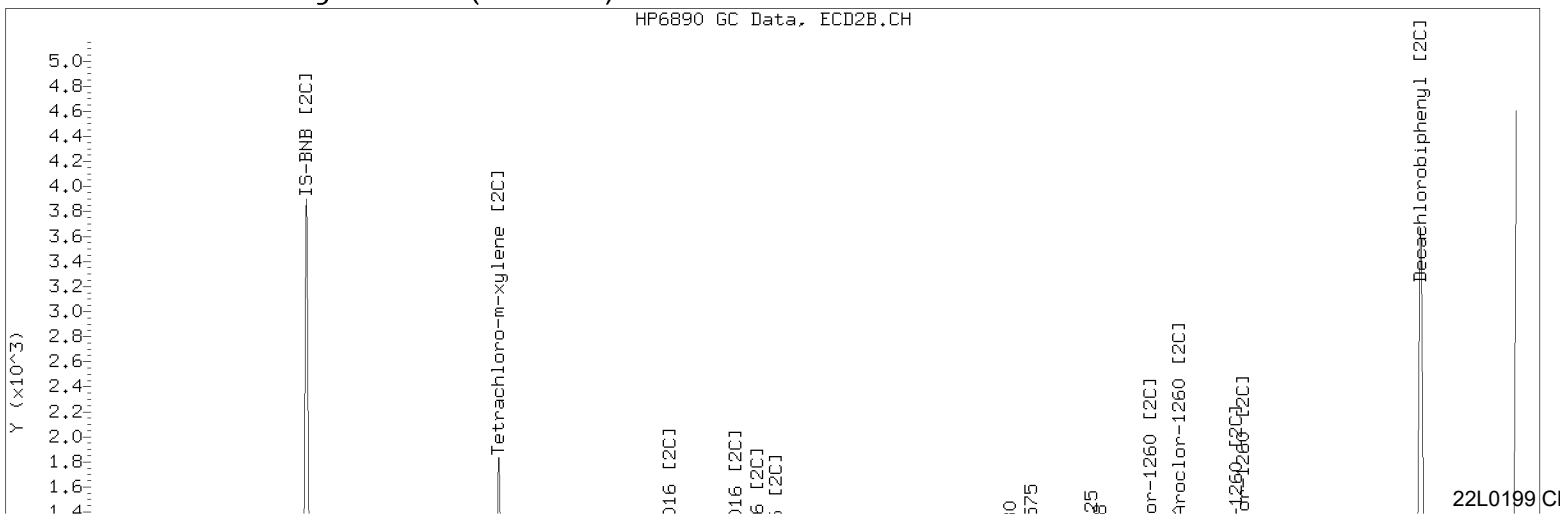
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/221230.b/221230.b/12302209ECD7.D Injection Date: 30-DEC-2022 14:09

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302225ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/30/22
Lab Sample ID:	SLA0035-CCV3	Injection Time:	19:46
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	262	0.0396000	0.0409728		4.9	
Aroclor-1242 (1)	A	250.00	273		0.0247653			
Aroclor-1242 (2)	A	250.00	270		0.0776927			
Aroclor-1242 (3)	A	250.00	287		0.0237503			
Aroclor-1242 (4)	A	250.00	219		0.0376827			
Aroclor 1242 [2C]	A	250.00	250	0.0391981	0.0365898		-0.1	
Aroclor-1242 (1) [2C]	A	250.00	252		0.0341457			
Aroclor-1242 (2) [2C]	A	250.00	193		0.0556278			
Aroclor-1242 (3) [2C]	A	250.00	274		0.0254013			
Aroclor-1242 (4) [2C]	A	250.00	280		0.0311842			
Decachlorobiphenyl	A	40.000	42.2	0.7333327	0.7734251		5.5	
Tetrachlorometaxylene	A	40.000	37.8	1.1336710	1.0713300		-5.5	
Decachlorobiphenyl [2C]	A	40.000	39.9	1.1358180	1.1326980		-0.3	
Tetrachlorometaxylene [2C]	A	40.000	38.1	1.0966080	1.0442730		-4.8	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302225ECD7.D
Data file 2: /221230.b/221230.b/12302225ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 30-DEC-2022 19:46
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	176477	5.709	-0.001	119327	37.8	38.1	0.8	Tetrachloro-m-xylene
13.901	-0.001	194668	14.127	-0.001	173979	42.2	39.9	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	329454	-26.4
Hexabromobiphenyl	798898	503392	-37.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	228536	-8.3
Hexabromobiphenyl	362541	307194	-15.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	0.000	25497	273.0	1	7.272	0.000	24386	252.1
Aroclor-1242	2	7.677	0.000	79988	269.8	2	7.871	0.000	39728	193.5
Aroclor-1242	3	8.421	0.000	24452	286.6	3	9.170	0.000	18141	273.9
Aroclor-1242	4	9.021	0.000	38796	219.0	4	9.589	0.000	22271	279.7
Total Col1Ave (4 peaks):					262.1	Total Col2Ave (4 peaks):				249.8 RPD = 5
Corrected Ave (3 peaks):					253.9	Corrected Ave (3 peaks):				239.8 RPD = 6
CalAmt %D:					4.8	CalAmt %D:				-0.1

Total PCB Area Col1 (5.933 - 13.802) = 784613 Col1 Total PCB = 0.2 ppm*

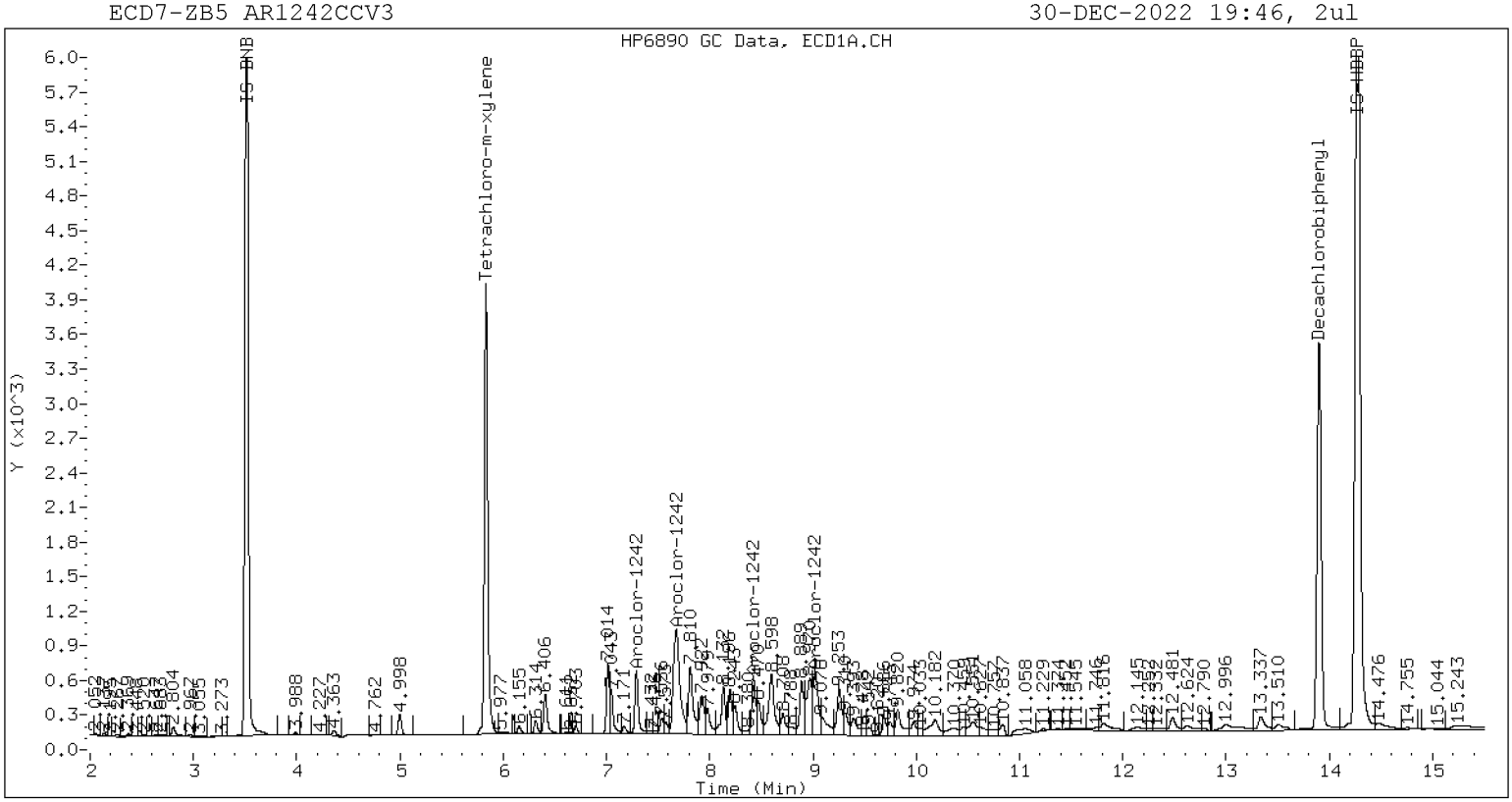
Total PCB Area Col2 (5.810 - 14.028) = 385059 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

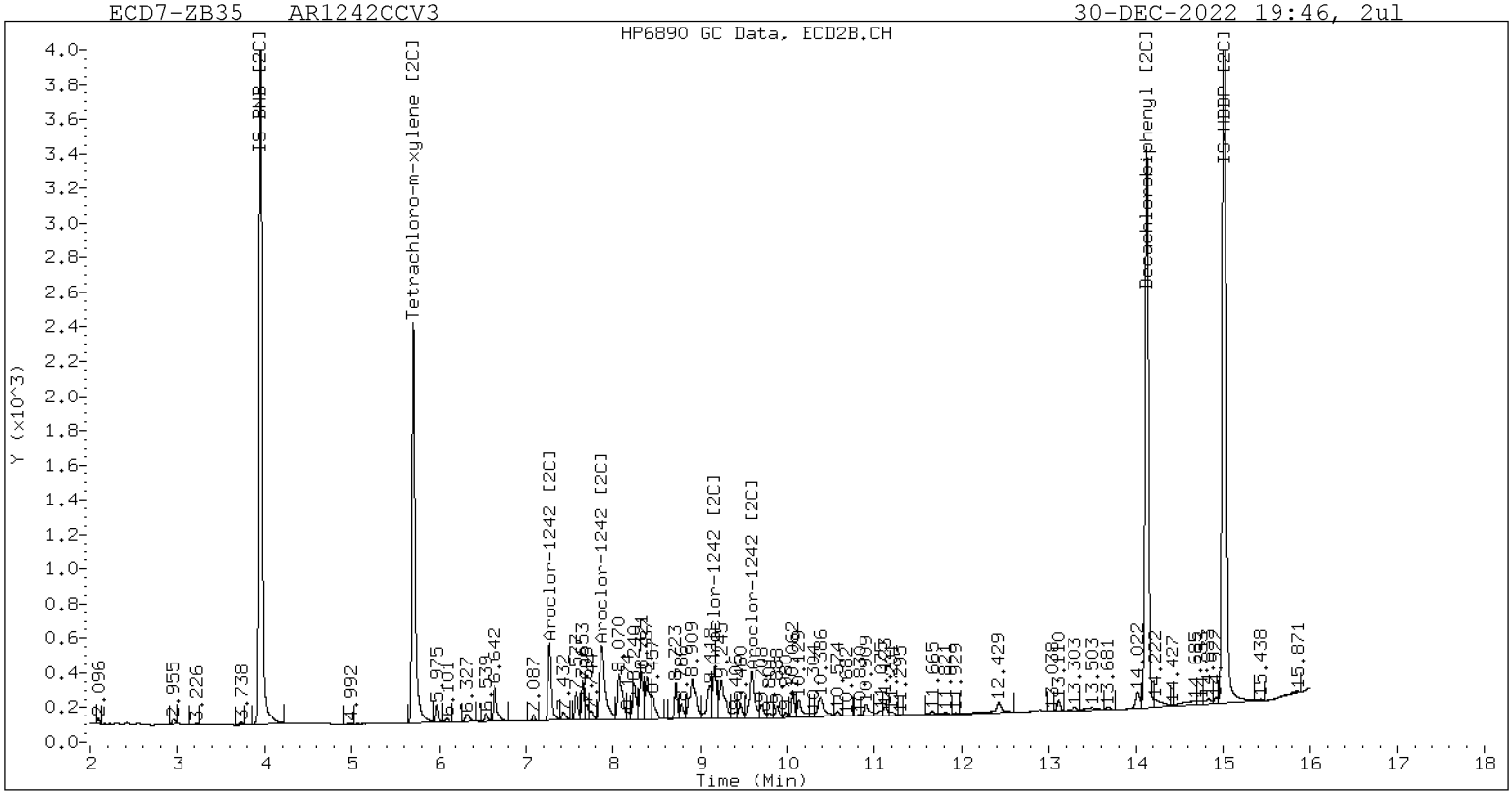
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 30-DEC-2022 19:46, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 30-DEC-2022 19:46, 2ul

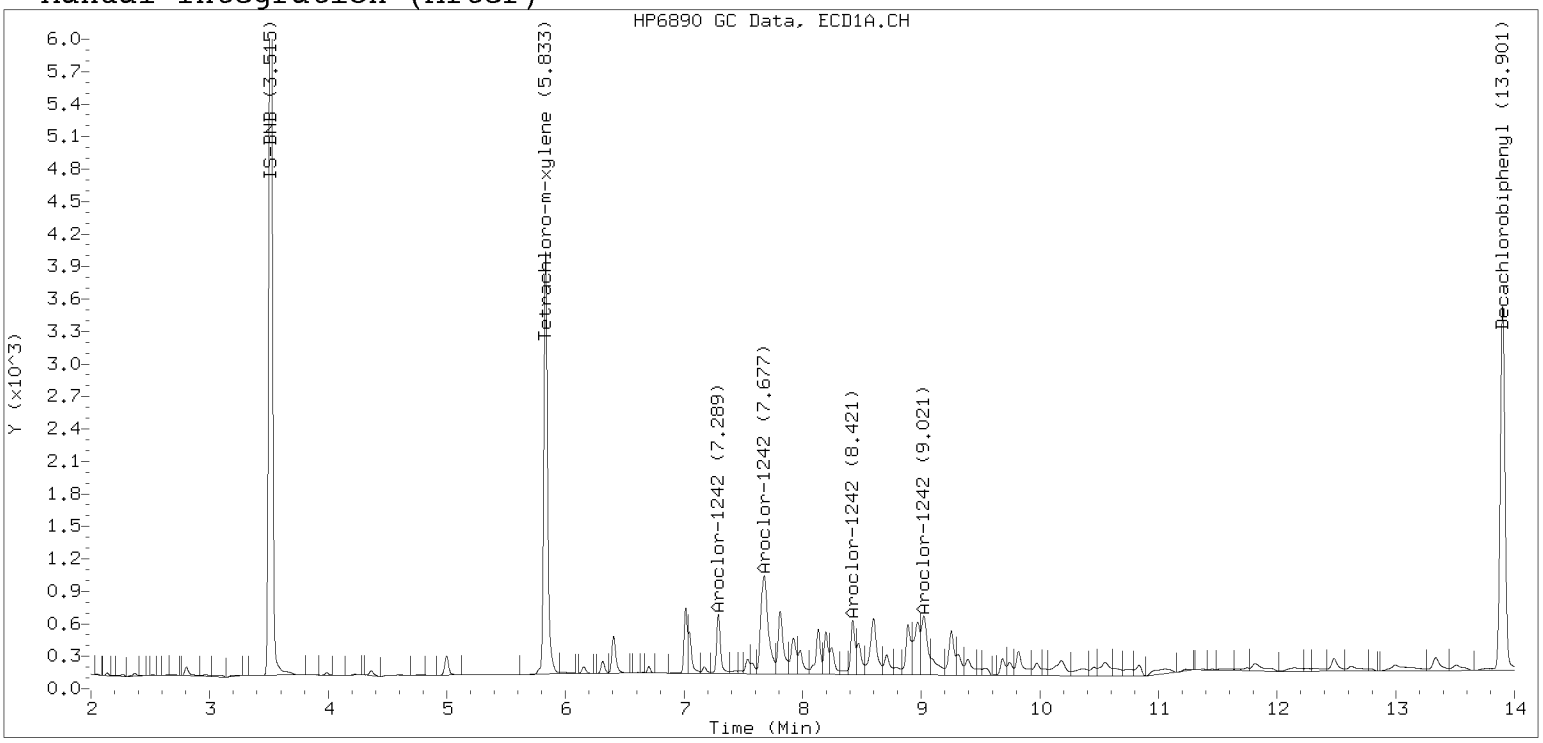


ZB-35 Manual Integration: NO

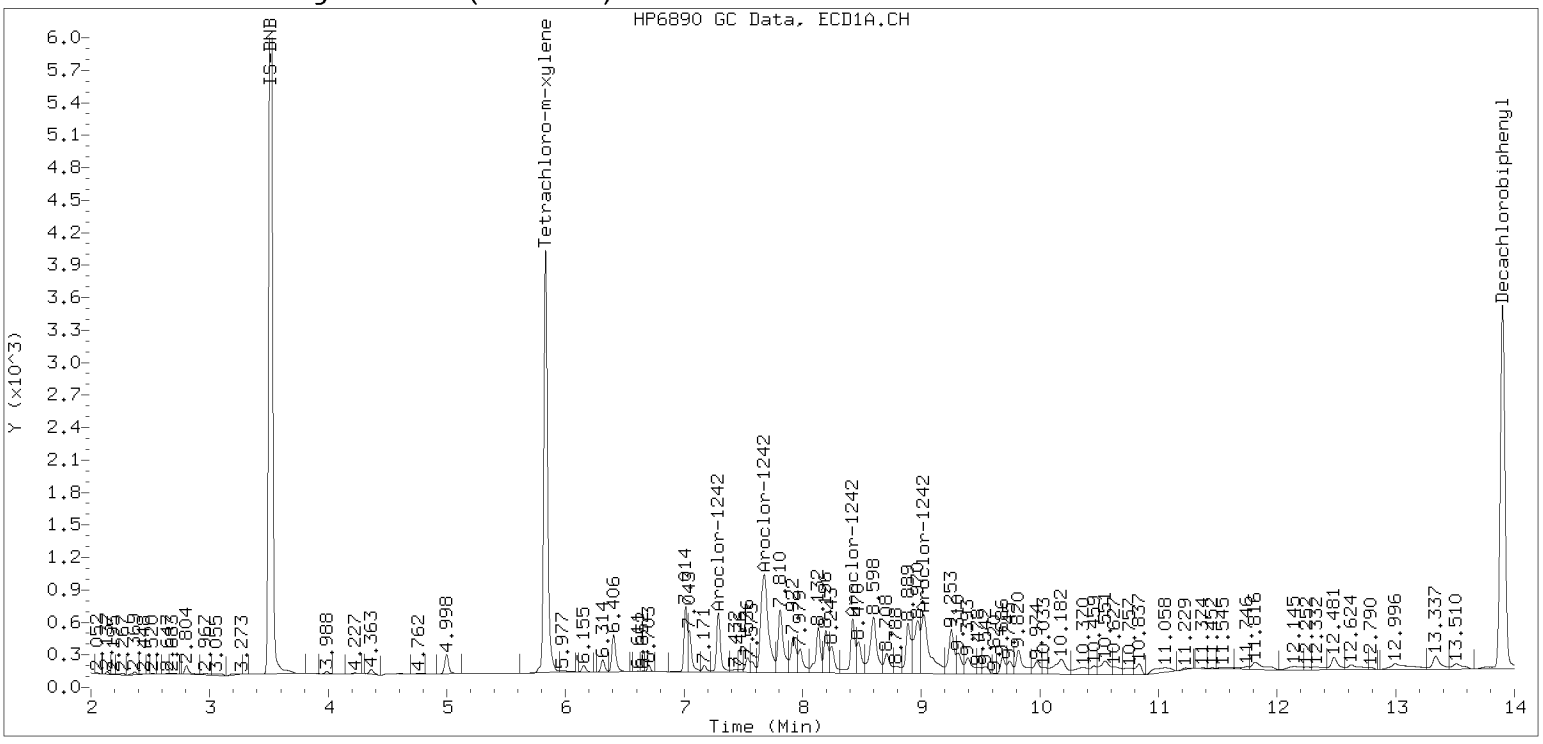
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221230.b/12302225ECD7.D Injection Date: 30-DEC-2022 19:46

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302226ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/30/22
Lab Sample ID:	SLA0035-CCV4	Injection Time:	20:08
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	259	0.0441939	0.0444456		3.5	
Aroclor-1016 (1)	A	250.00	260	0.0266860	0.0277061		4.0	
Aroclor-1016 (2)	A	250.00	241	0.0861572	0.0829582		-3.6	
Aroclor-1016 (3)	A	250.00	248	0.0390425	0.0386920		-0.8	
Aroclor-1016 (4)	A	250.00	286	0.0248899	0.0284260		14.4	
Aroclor 1016 [2C]	A	250.00	235	0.0467310	0.0414049		-6.2	
Aroclor-1016 (1) [2C]	A	250.00	242	0.0409030	0.0396480		-3.2	
Aroclor-1016 (2) [2C]	A	250.00	196	0.0882154	0.0689923		-21.6	
Aroclor-1016 (3) [2C]	A	250.00	239	0.0378846	0.0361807		-4.4	
Aroclor-1016 (4) [2C]	A	250.00	261	0.0199212	0.0207983		4.4	
Aroclor 1260	A	250.00	287	0.0390342	0.0444518		14.6	
Aroclor-1260 (1)	A	250.00	279	0.0291201	0.0325305		11.6	
Aroclor-1260 (2)	A	250.00	281	0.0301181	0.0338671		12.4	
Aroclor-1260 (3)	A	250.00	281	0.0791351	0.0890797		12.4	
Aroclor-1260 (4)	A	250.00	291	0.0403003	0.0469193		16.4	
Aroclor-1260 (5)	A	250.00	301	0.0164974	0.0198626		20.4	
Aroclor 1260 [2C]	A	250.00	226	0.0617619	0.0516771		-9.8	
Aroclor-1260 (1) [2C]	A	250.00	252	0.0422283	0.0425795		0.8	
Aroclor-1260 (2) [2C]	A	250.00	183	0.1059643	0.0774096		-26.8	
Aroclor-1260 (3) [2C]	A	250.00	266	0.0282173	0.0299915		6.4	
Aroclor-1260 (4) [2C]	A	250.00	201	0.0706376	0.0567277		-19.6	
Decachlorobiphenyl	A	40.000	46.8	0.7333327	0.8576420		17.0	
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1066400		-2.5	
Decachlorobiphenyl [2C]	A	40.000	41.1	1.1358180	1.1666260		2.8	
Tetrachlorometaxylene [2C]	A	40.000	39.9	1.0966080	1.0928270		-0.3	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302226ECD7.D
Data file 2: /221230.b/221230.b/12302226ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 30-DEC-2022 20:08
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	144878	5.710	-0.000	97984	39.0	39.9	2.1	Tetrachloro-m-xylene
13.902	-0.000	210353	14.127	-0.001	161986	46.8	41.1	13.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	261834	-41.5
Hexabromobiphenyl	798898	490538	-38.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	179322	-28.0
Hexabromobiphenyl	362541	277700	-23.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.002	22670	259.6	1	7.272	-0.000	22218	242.3
Aroclor-1016	2	7.677	-0.000	67879	240.7	2	7.872	-0.001	38662	195.5
Aroclor-1016	3	7.811	-0.002	31659	247.8	3	8.070	-0.001	20275	238.8
Aroclor-1016	4	8.424	0.000	23259	285.5	4	8.241	-0.001	11655	261.0
Total Col1Ave (4 peaks):					258.4	Total Col2Ave (4 peaks):				234.4 RPD = 10
Corrected Ave (3 peaks):					249.3	Corrected Ave (3 peaks):				225.5 RPD = 10
CalAmt %D:					3.4	CalAmt %D:				-6.2
Aroclor-1260	1	11.056	0.000	49867	279.3	1	11.662	0.000	36951	252.1
Aroclor-1260	2	11.372	0.000	51916	281.1	2	11.926	0.001	67177	182.6
Aroclor-1260	3	11.745	-0.002	136553	281.4	3	12.444	0.000	26027	265.7
Aroclor-1260	4	12.149	0.002	71924	291.1	4	12.508	0.000	49229	200.8
Aroclor-1260	5	12.254	-0.002	30448	301.0	NS	---			----
Total Col1Ave (5 peaks):					286.8	Total Col2Ave (4 peaks):				225.3 RPD = 24
Corrected Ave (4 peaks):					283.2	Corrected Ave (3 peaks):				211.8 RPD = 29
CalAmt %D:					14.7	CalAmt %D:				-9.9

Total PCB Area Col1 (5.933 - 13.802) = 1399308 Col1 Total PCB = 0.6 ppm*

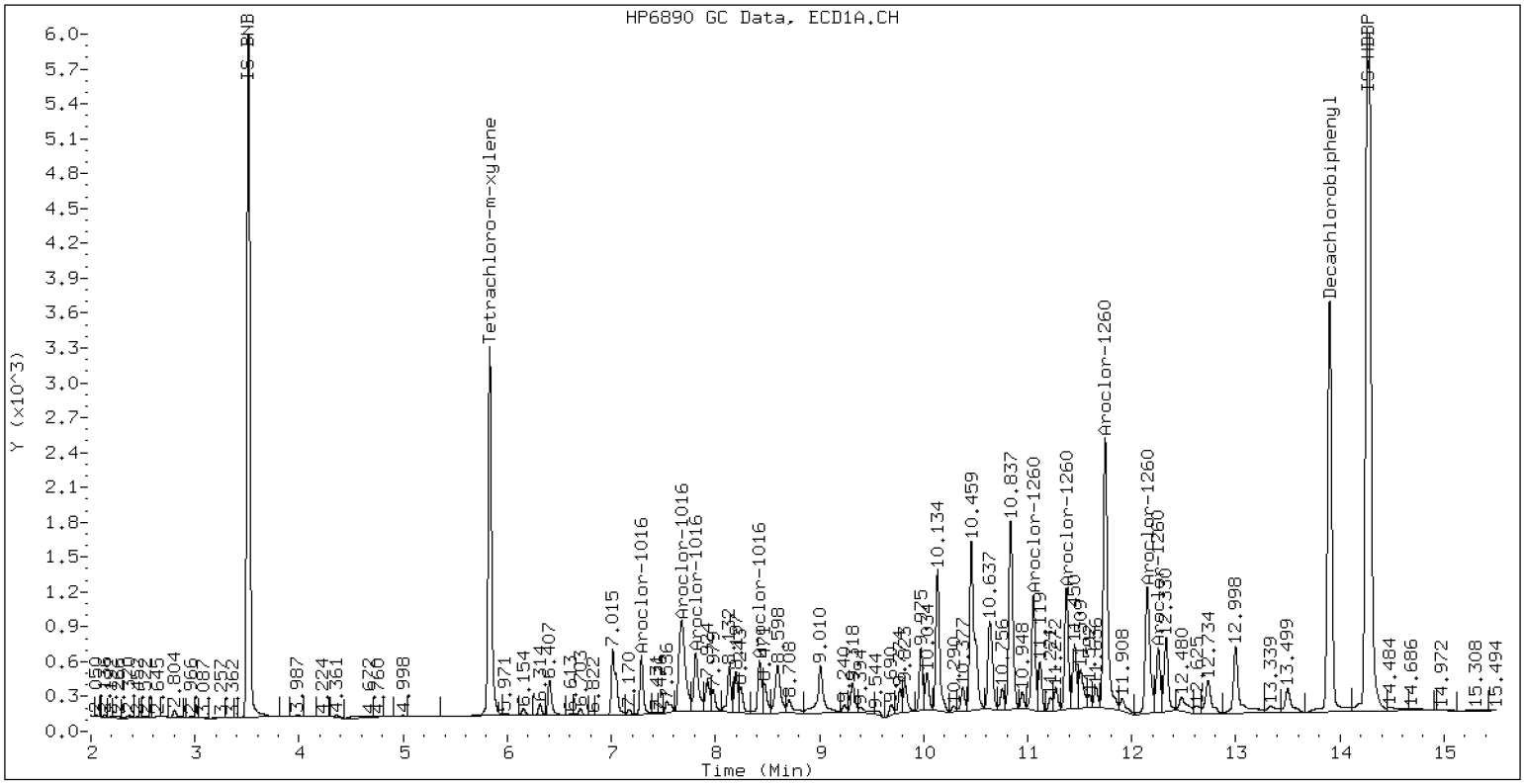
Total PCB Area Col2 (5.810 - 14.028) = 815827 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

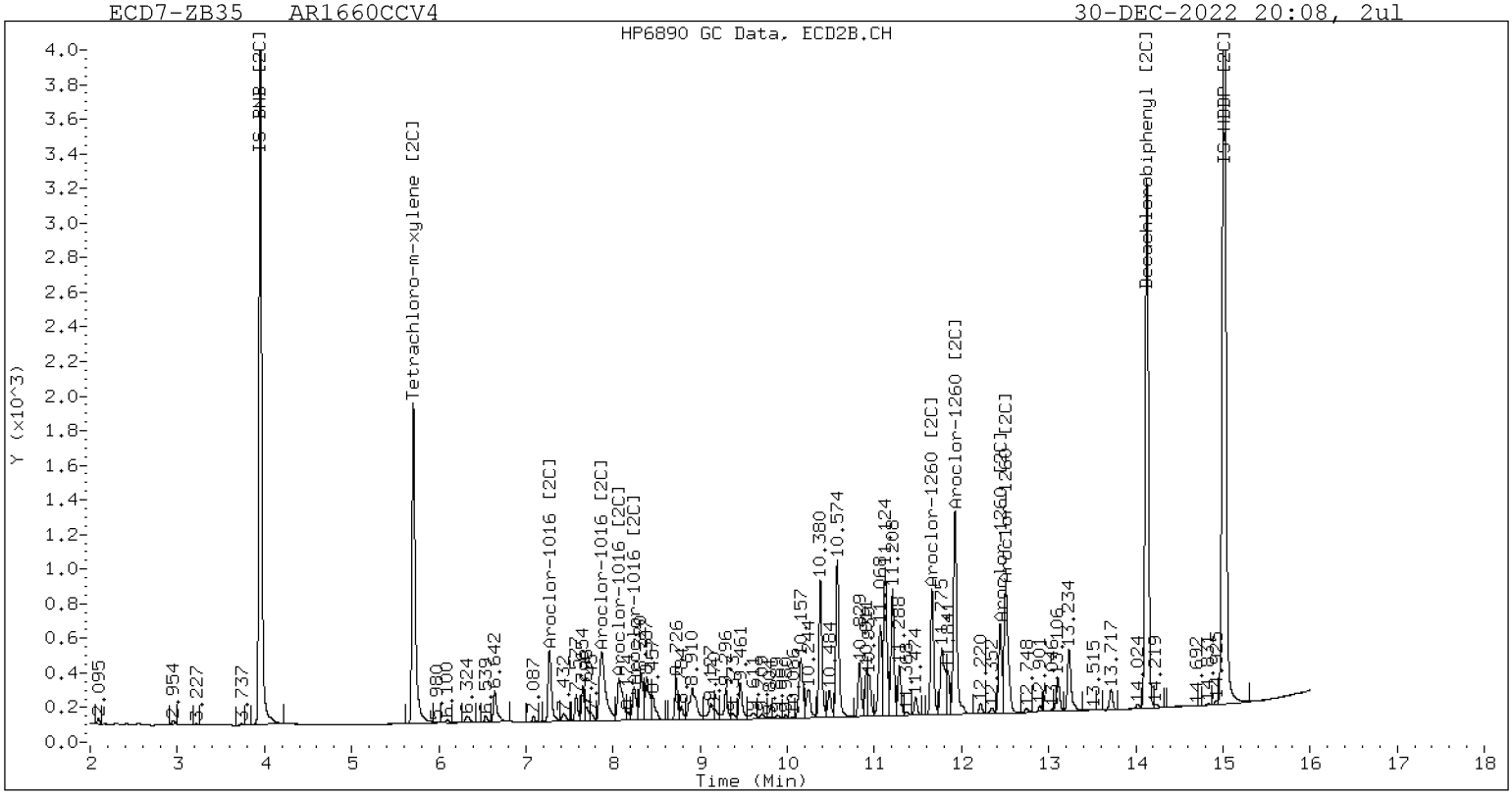
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 30-DEC-2022 20:08, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV4 30-DEC-2022 20:08, 2ul

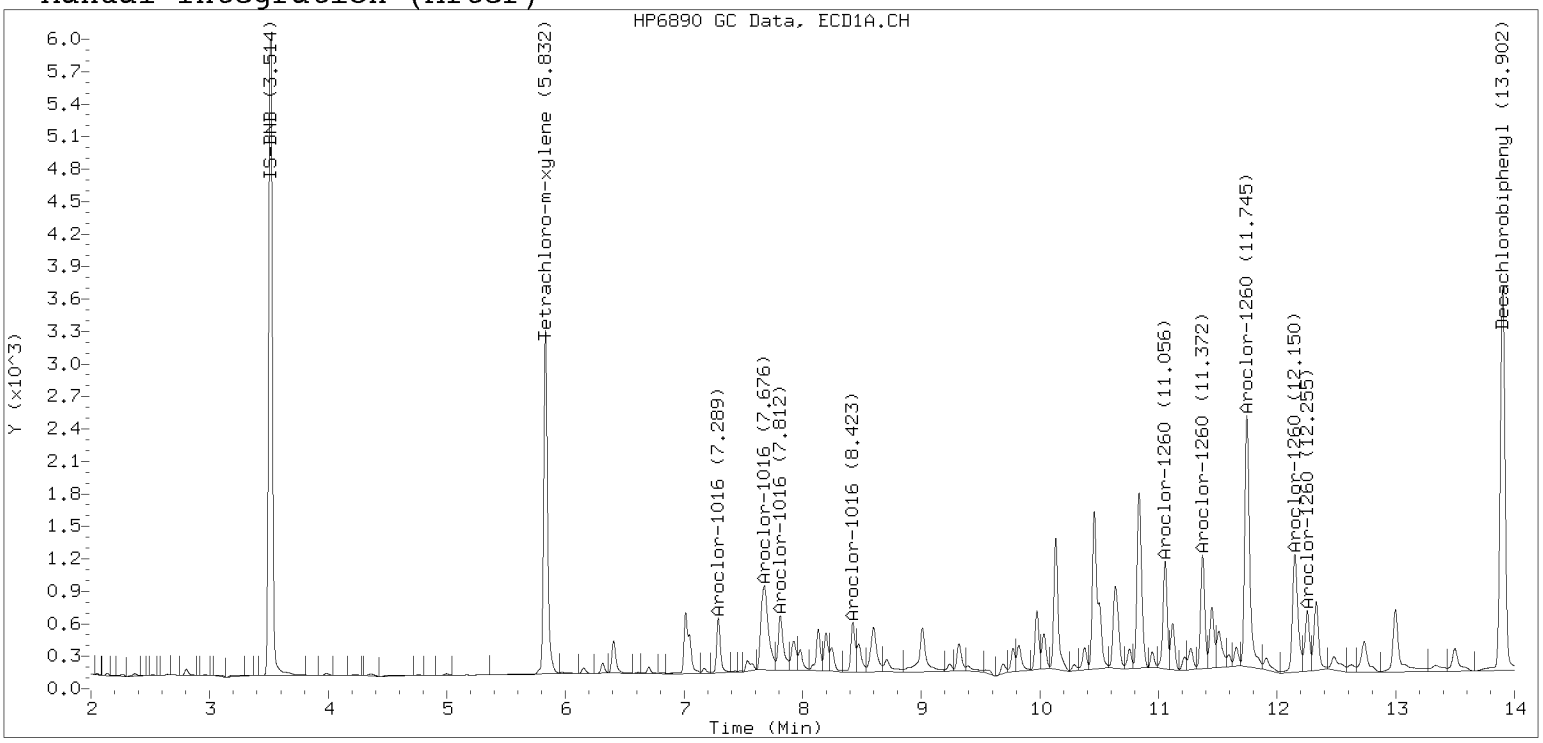


ZB-35 Manual Integration: NO

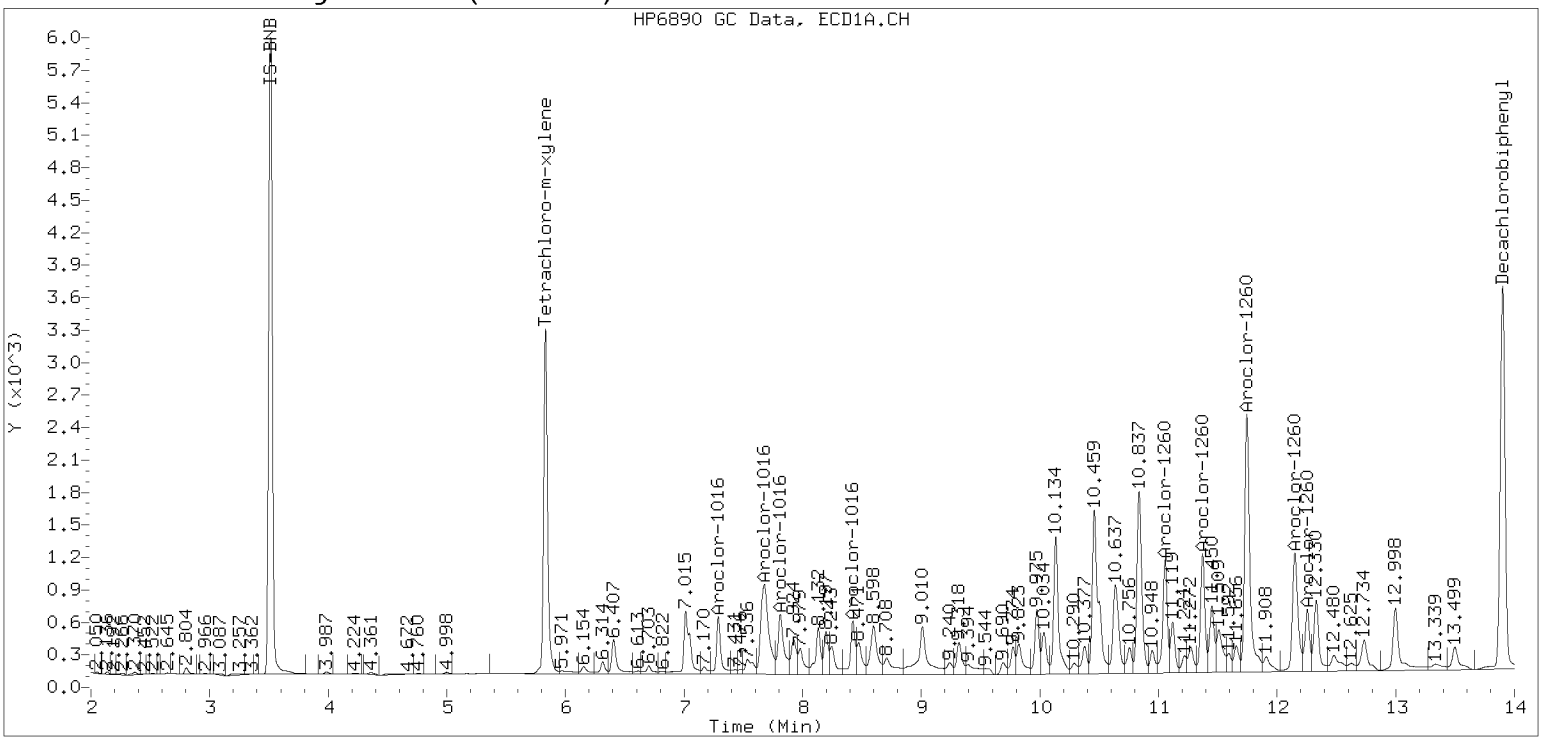
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221230.b/12302226ECD7.D Injection Date: 30-DEC-2022 20:08

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302237ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/31/22
Lab Sample ID:	SLA0035-CCV5	Injection Time:	00:00
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	244	0.0576965	0.0568063		-2.3	
Aroclor-1254 (1)	A	250.00	232		0.0652709			
Aroclor-1254 (2)	A	250.00	250		0.0274161			
Aroclor-1254 (3)	A	250.00	210		0.0373119			
Aroclor-1254 (4)	A	250.00	259		0.0898757			
Aroclor-1254 (5)	A	250.00	270		0.0641568			
Aroclor 1254 [2C]	A	250.00	226	0.0638047	0.0590758		-9.6	
Aroclor-1254 (1) [2C]	A	250.00	232		0.0479038			
Aroclor-1254 (2) [2C]	A	250.00	156		0.0259707			
Aroclor-1254 (3) [2C]	A	250.00	216		0.0771163			
Aroclor-1254 (4) [2C]	A	250.00	266		0.0980412			
Aroclor-1254 (5) [2C]	A	250.00	260		0.0463469			
Decachlorobiphenyl	A	40.000	43.9	0.7333327	0.8055554		9.8	
Tetrachlorometaxylene	A	40.000	36.8	1.1336710	1.0440100		-8.0	
Decachlorobiphenyl [2C]	A	40.000	40.7	1.1358180	1.1548680		1.8	
Tetrachlorometaxylene [2C]	A	40.000	36.5	1.0966080	1.0018720		-8.8	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302237ECD7.D
Data file 2: /221230.b/221230.b/12302237ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 31-DEC-2022 00:00
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.003	183065	5.707	-0.003	123866	36.8	36.5	0.8	Tetrachloro-m-xylene
13.902	-0.000	211938	14.127	-0.001	188568	43.9	40.7	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	350696	-21.7
Hexabromobiphenyl	798898	526191	-34.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	247269	-0.7
Hexabromobiphenyl	362541	326562	-9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.312	-0.009	71532	231.7	1	9.460	0.000	37016	232.2
Aroclor-1254	2	9.391	-0.011	30046	250.2	2	9.978	0.000	20068	156.6
Aroclor-1254	3	9.684	-0.010	40891	209.7	3	10.128	0.000	59589	216.3
Aroclor-1254	4	9.818	-0.012	98497	259.1	4	10.376	0.000	75758	265.5
Aroclor-1254	5	10.174	-0.016	70311	269.8	5	10.575	0.000	35813	260.2
Total Col1Ave (5 peaks):					244.1	Total Col2Ave (5 peaks):				226.2 RPD = 8
Corrected Ave (4 peaks):					237.7	Corrected Ave (4 peaks):				216.3 RPD = 9
CalAmt %D:					-2.4	CalAmt %D:				-9.5

Total PCB Area Col1 (5.933 - 13.802) = 1024327 Col1 Total PCB = 0.3 ppm*

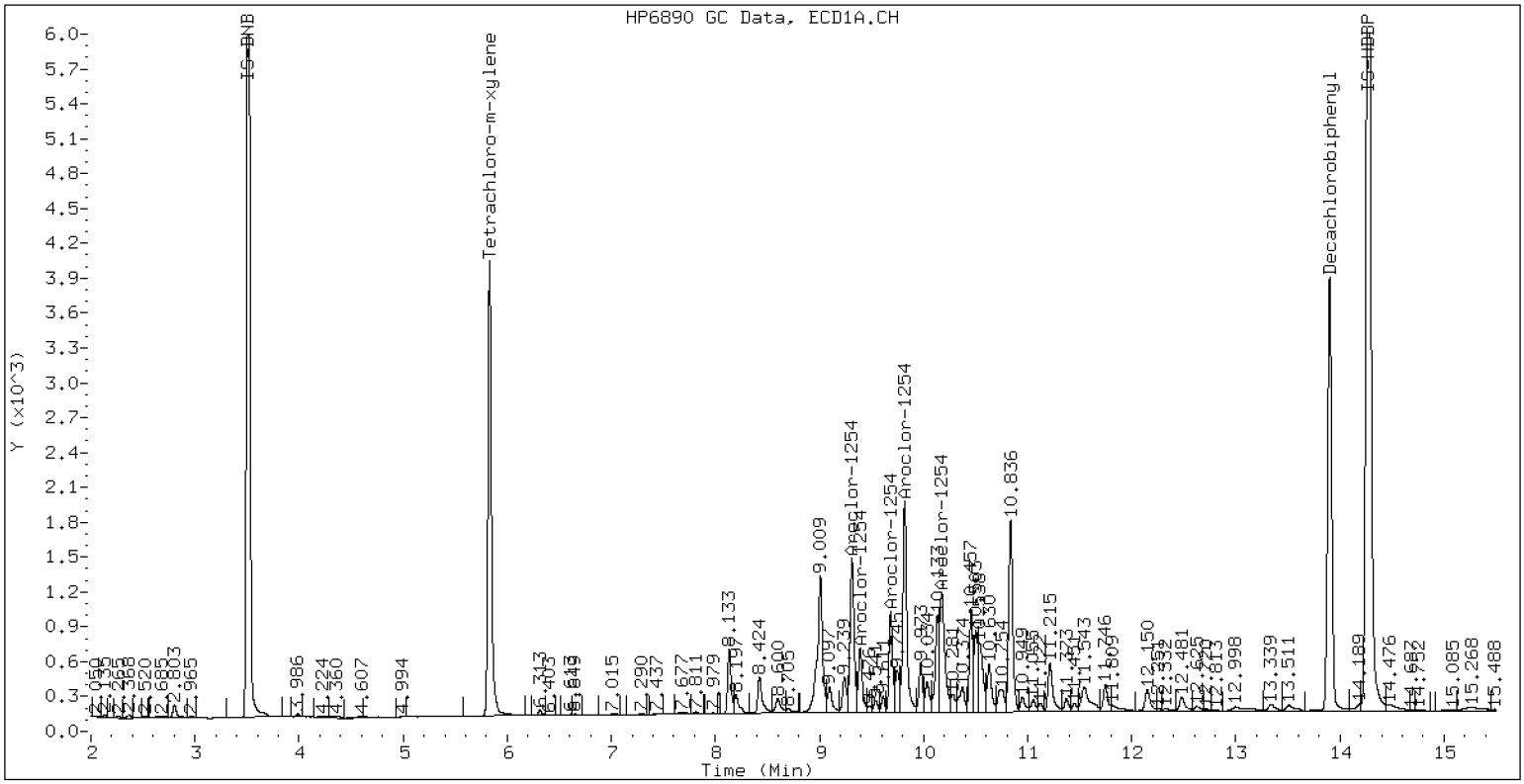
Total PCB Area Col2 (5.810 - 14.028) = 662587 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

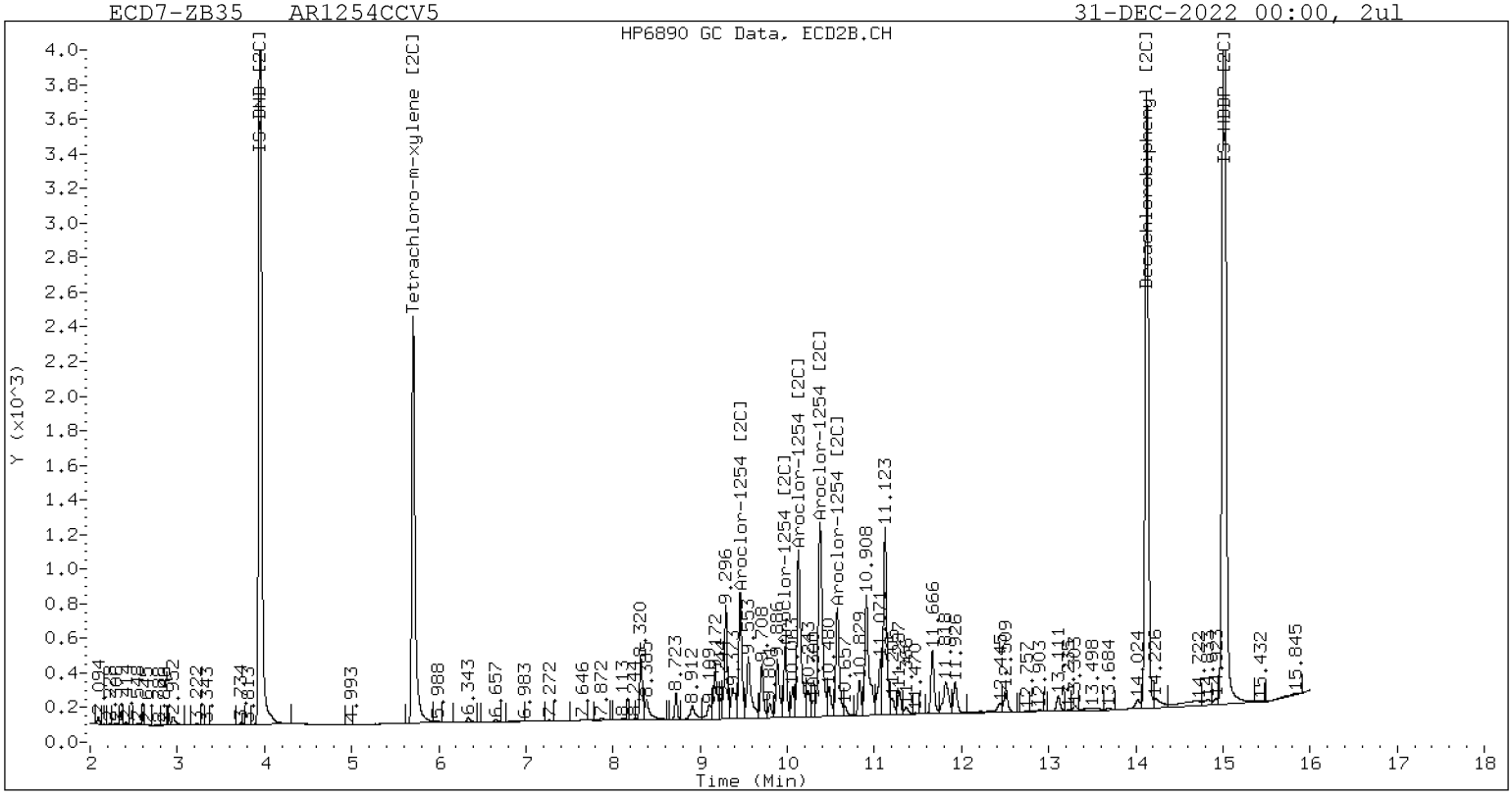
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 31-DEC-2022 00:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 31-DEC-2022 00:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12302238ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0035	Injection Date:	12/31/22
Lab Sample ID:	SLA0035-CCV6	Injection Time:	00:21
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	265	0.0441939	0.0465079		6.1	
Aroclor-1016 (1)	A	250.00	259	0.0266860	0.0276647		3.6	
Aroclor-1016 (2)	A	250.00	258	0.0861572	0.0890273		3.2	
Aroclor-1016 (3)	A	250.00	267	0.0390425	0.0417634		6.8	
Aroclor-1016 (4)	A	250.00	277	0.0248899	0.0275761		10.8	
Aroclor 1016 [2C]	A	250.00	246	0.0467310	0.0432640		-1.7	
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0413743		1.2	
Aroclor-1016 (2) [2C]	A	250.00	204	0.0882154	0.0718100		-18.4	
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0379080		0.0	
Aroclor-1016 (4) [2C]	A	250.00	276	0.0199212	0.0219638		10.4	
Aroclor 1260	A	250.00	284	0.0390342	0.0440611		13.4	
Aroclor-1260 (1)	A	250.00	284	0.0291201	0.0331318		13.6	
Aroclor-1260 (2)	A	250.00	281	0.0301181	0.0338578		12.4	
Aroclor-1260 (3)	A	250.00	281	0.0791351	0.0888520		12.4	
Aroclor-1260 (4)	A	250.00	281	0.0403003	0.0452510		12.4	
Aroclor-1260 (5)	A	250.00	291	0.0164974	0.0192130		16.4	
Aroclor 1260 [2C]	A	250.00	231	0.0617619	0.0529393		-7.5	
Aroclor-1260 (1) [2C]	A	250.00	261	0.0422283	0.0441607		4.4	
Aroclor-1260 (2) [2C]	A	250.00	186	0.1059643	0.0790906		-25.6	
Aroclor-1260 (3) [2C]	A	250.00	274	0.0282173	0.0308842		9.6	
Aroclor-1260 (4) [2C]	A	250.00	204	0.0706376	0.0576216		-18.4	
Decachlorobiphenyl	A	40.000	46.3	0.7333327	0.8495016		15.8	
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1055210		-2.5	
Decachlorobiphenyl [2C]	A	40.000	41.4	1.1358180	1.1748010		3.5	
Tetrachlorometaxylene [2C]	A	40.000	40.0	1.0966080	1.0979310		0.0	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221230.b/12302238ECD7.D
Data file 2: /221230.b/221230.b/12302238ECD7.D
Method: \\target\share\chem4\ecd7.i\221230.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 31-DEC-2022 00:21
Report Date: 01/04/2023 12:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.000	143778	5.710	0.000	97353	39.0	40.0	2.6	Tetrachloro-m-xylene
13.902	0.000	208751	14.128	0.000	162052	46.3	41.4	11.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	260109	-41.9
Hexabromobiphenyl	798898	491467	-38.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	177339	-28.8
Hexabromobiphenyl	362541	275880	-23.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.290	0.000	22487	259.2	1	7.272	0.000	22929	252.9
Aroclor-1016	2	7.677	0.000	72365	258.3	2	7.872	0.000	39796	203.5
Aroclor-1016	3	7.813	0.000	33947	267.4	3	8.071	0.000	21008	250.2
Aroclor-1016	4	8.424	0.000	22415	277.0	4	8.242	0.000	12172	275.6
Total Col1Ave (4 peaks):				265.5		Total Col2Ave (4 peaks):			245.5	RPD = 8
Corrected Ave (3 peaks):				261.6		Corrected Ave (3 peaks):			235.5	RPD = 11
CalAmt %D:				6.2		CalAmt %D:			-1.8	
Aroclor-1260	1	11.056	0.000	50885	284.4	1	11.662	0.000	38072	261.4
Aroclor-1260	2	11.372	0.000	52000	281.0	2	11.925	0.000	68186	186.6
Aroclor-1260	3	11.746	0.000	136462	280.7	3	12.443	0.000	26626	273.6
Aroclor-1260	4	12.147	0.000	69498	280.7	4	12.508	0.000	49677	203.9
Aroclor-1260	5	12.256	0.000	29508	291.2	NS	---			----
Total Col1Ave (5 peaks):				283.6		Total Col2Ave (4 peaks):			231.4	RPD = 20
Corrected Ave (4 peaks):				281.7		Corrected Ave (3 peaks):			217.3	RPD = 26
CalAmt %D:				13.4		CalAmt %D:			-7.4	

Total PCB Area Col1 (5.933 - 13.802) = 1396903 Col1 Total PCB = 0.6 ppm*

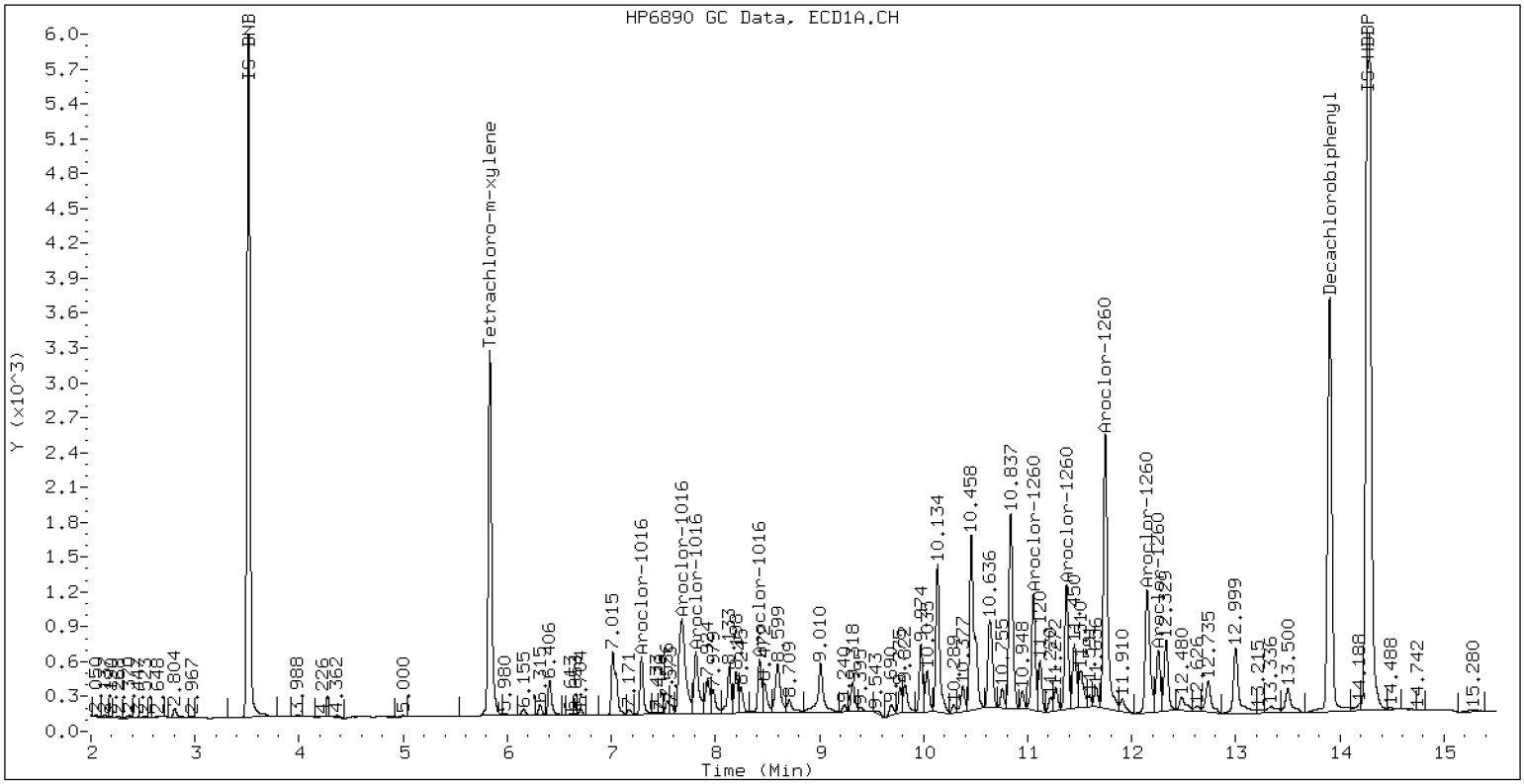
Total PCB Area Col2 (5.810 - 14.028) = 835508 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

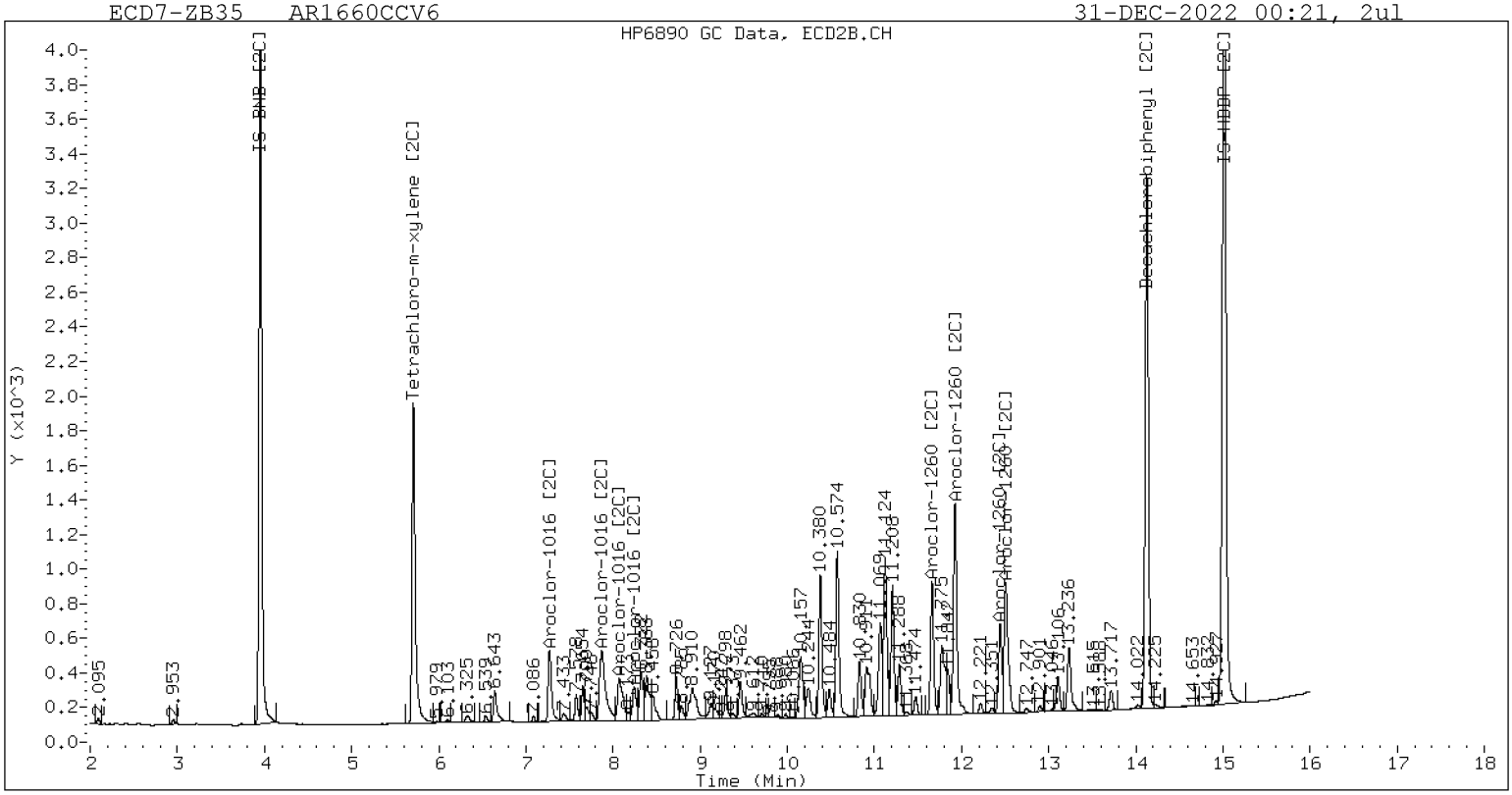
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 31-DEC-2022 00:21, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV6 31-DEC-2022 00:21, 2ul

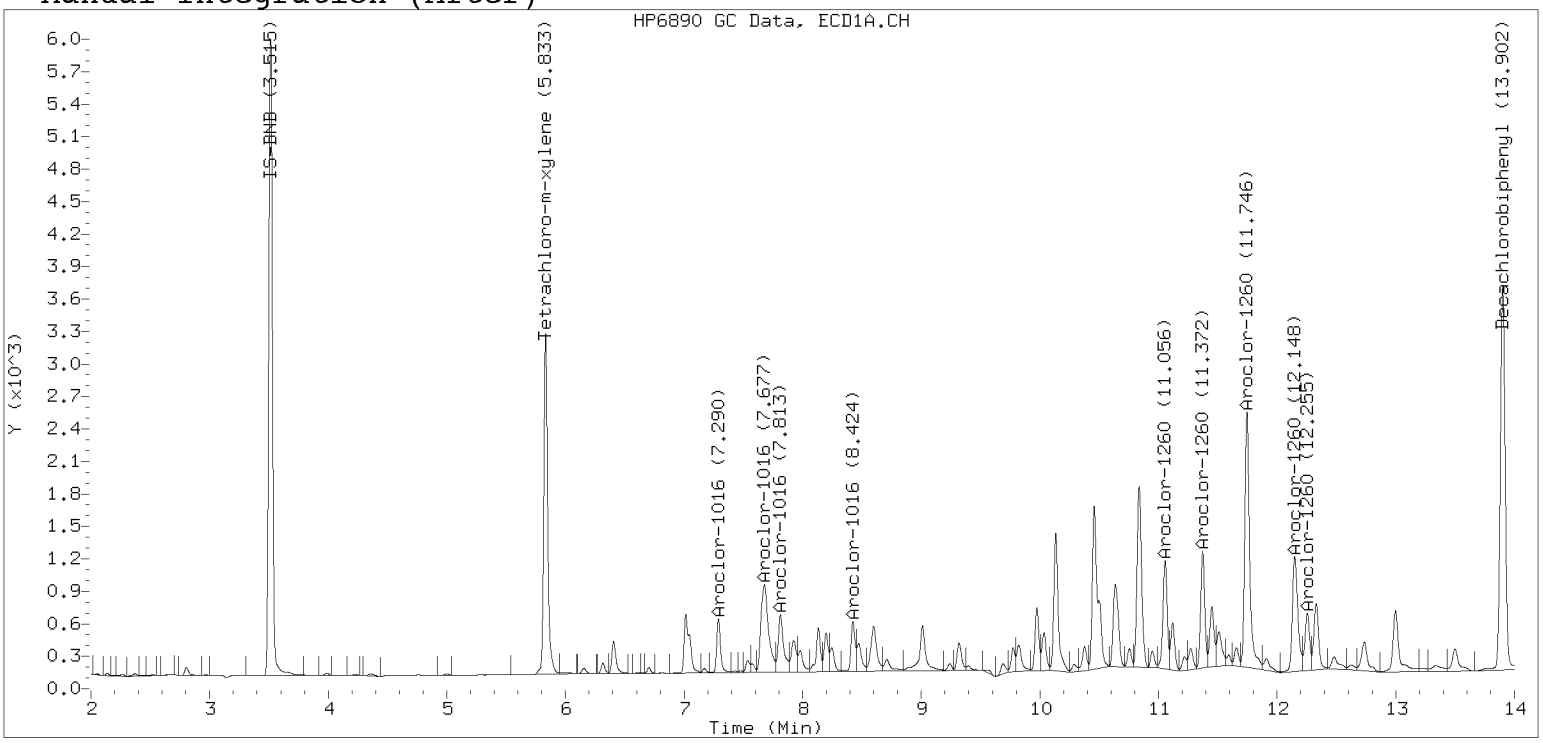


ZB-35 Manual Integration: NO

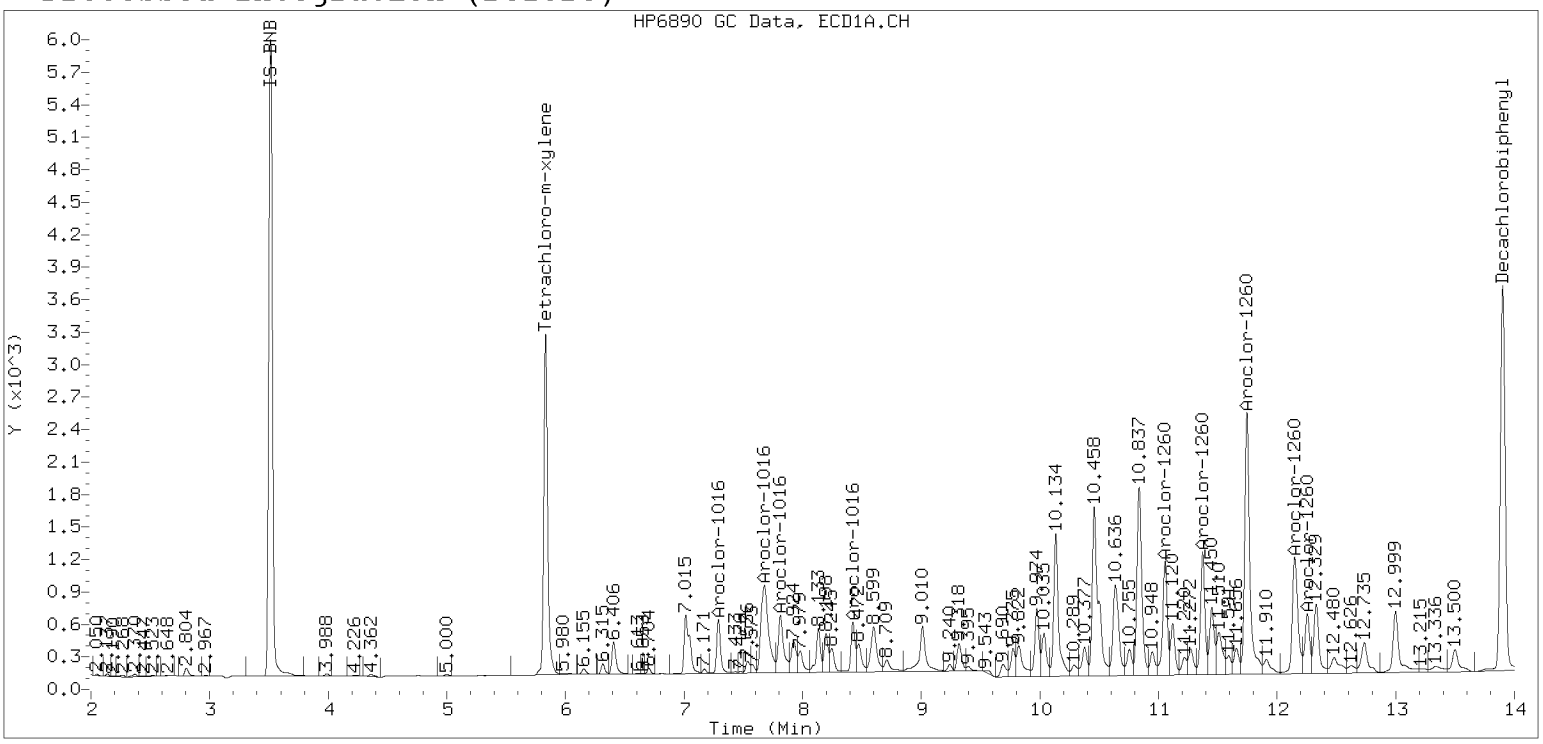
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221230.b/12302238ECD7.D Injection Date: 31-DEC-2022 00:21

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312220ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	12/31/22
Lab Sample ID:	SLA0071-CCV1	Injection Time:	16:50
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	249	0.0490062	0.0502001		-0.5	+/-20
Aroclor-1248 (1)	A	250.00	276		0.0380015			
Aroclor-1248 (2)	A	250.00	288		0.0506237			
Aroclor-1248 (3)	A	250.00	281		0.0889393			
Aroclor-1248 (4)	A	250.00	150		0.0232358			
Aroclor 1248 [2C]	A	250.00	250	0.0394876	0.0398736		-0.2	+/-20
Aroclor-1248 (1) [2C]	A	250.00	260		0.0339402			
Aroclor-1248 (2) [2C]	A	250.00	192		0.0263420			
Aroclor-1248 (3) [2C]	A	250.00	276		0.0462466			
Aroclor-1248 (4) [2C]	A	250.00	270		0.0529655			
Decachlorobiphenyl	A	40.000	42.5	0.7333327	0.7794710		6.3	+/-20
Tetrachlorometaxylene	A	40.000	35.8	1.1336710	1.0142320		-10.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1571900		2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.7	1.0966080	1.0072460		-8.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312220ECD7.D
Data file 2: /221231.b/221231.b/12312220ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 31-DEC-2022 16:50
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.000	176700	5.708	-0.002	120793	35.8	36.7	2.6	Tetrachloro-m-xylene
13.903	0.002	253224	14.129	-0.001	210387	42.5	40.8	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	348441	-22.2
Hexabromobiphenyl	798898	649733	-18.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	239848	-3.7
Hexabromobiphenyl	362541	363617	0.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.005	41379	276.2	1	8.322	-0.002	25439	259.6
Aroclor-1248	2	8.598	-0.006	55123	288.2	2	8.726	-0.002	19744	191.6
Aroclor-1248	3	9.017	-0.005	96844	281.4	3	9.172	-0.002	34663	276.5
Aroclor-1248	4	9.311	-0.000	25301	150.1	4	9.593	-0.002	39699	269.8
Total Col1Ave (4 peaks):					249.0	Total Col2Ave (4 peaks):				249.4 RPD = 0
Corrected Ave (3 peaks):					235.9	Corrected Ave (3 peaks):				240.3 RPD = 2
CalAmt %D:					-0.4	CalAmt %D:				-0.2

Total PCB Area Col1 (5.932 - 13.801) = 905221 Col1 Total PCB = 0.3 ppm*

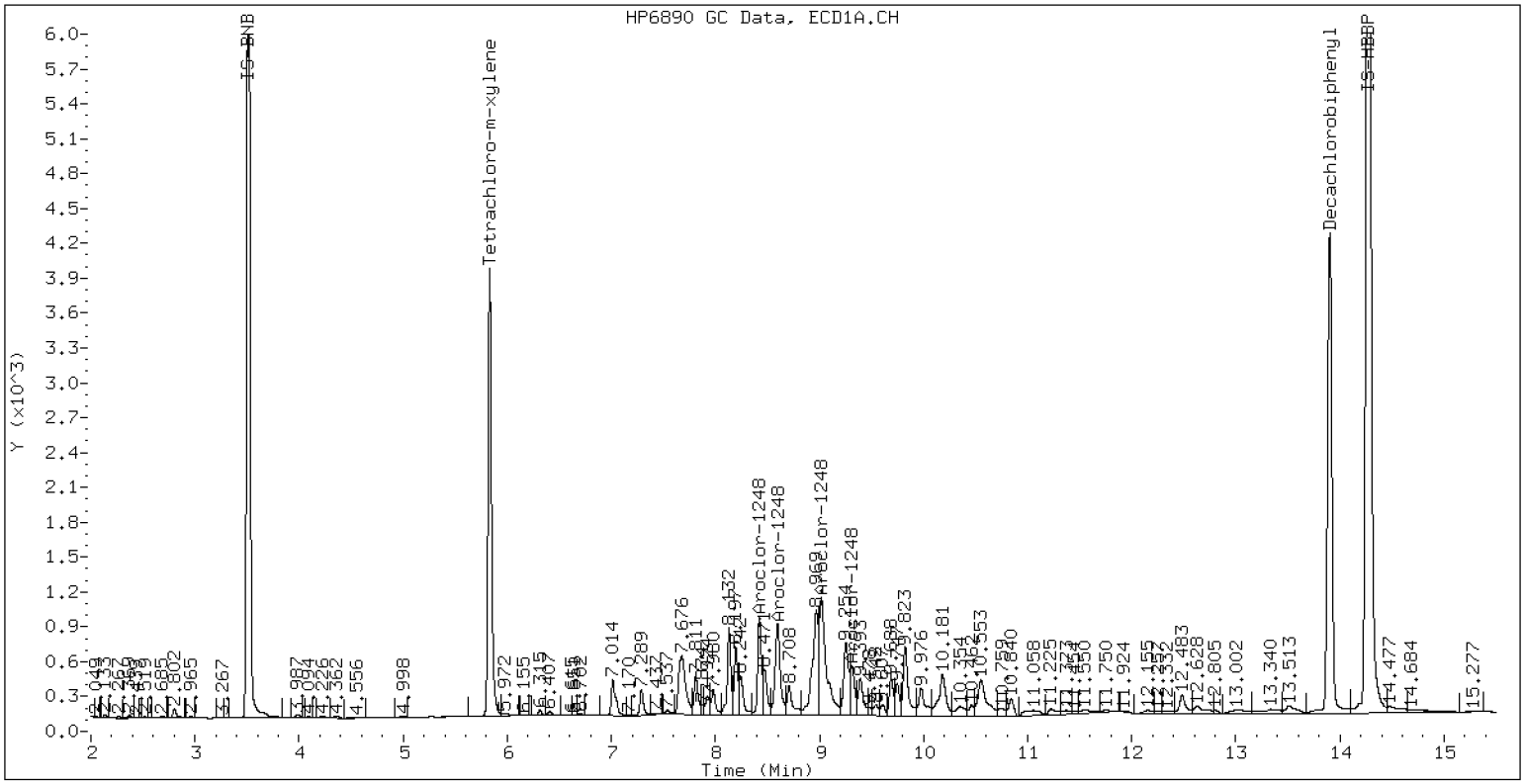
Total PCB Area Col2 (5.810 - 14.030) = 487801 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

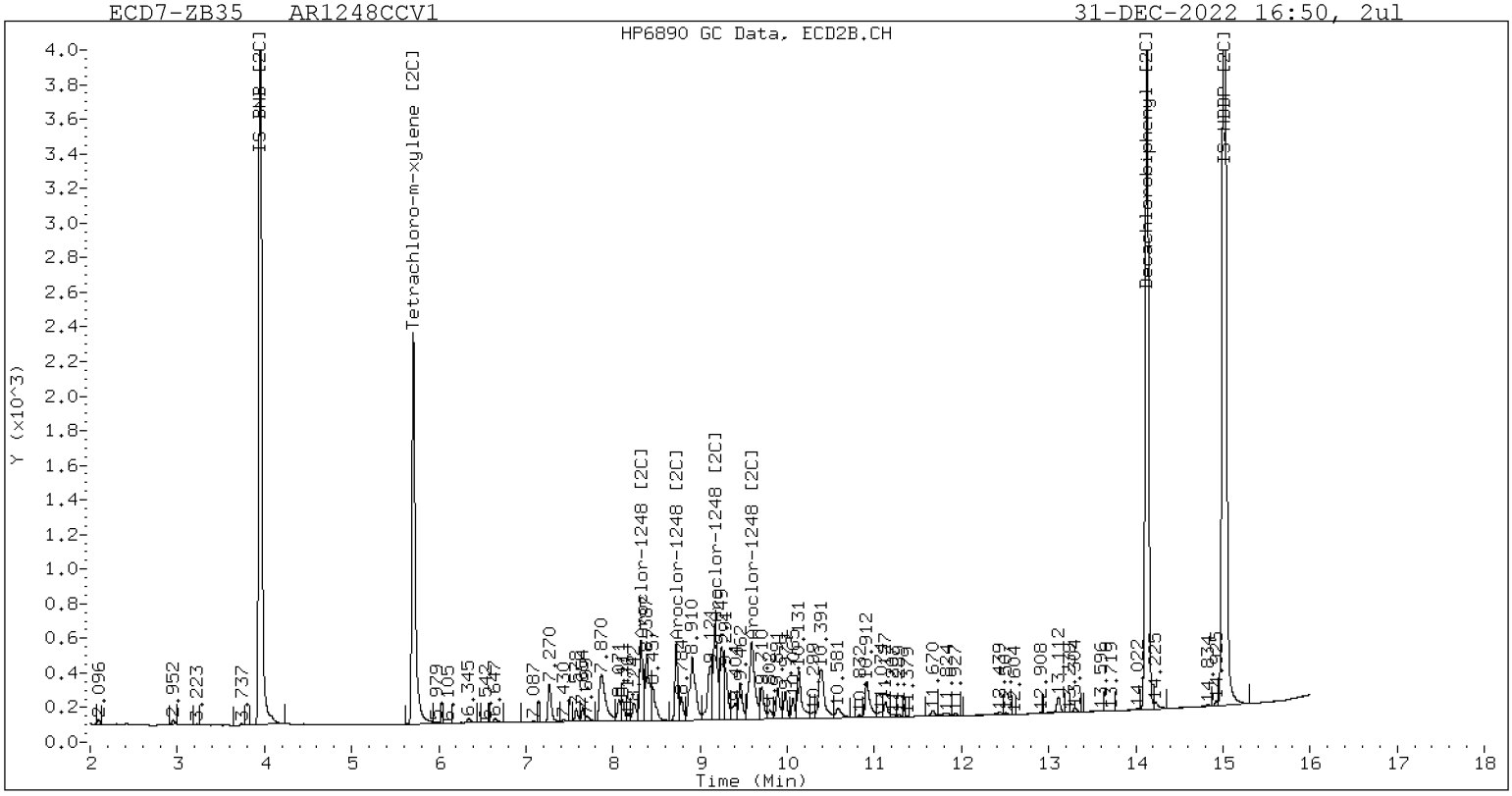
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 31-DEC-2022 16:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 31-DEC-2022 16:50, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312221ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	12/31/22
Lab Sample ID:	SLA0071-CCV2	Injection Time:	17:11
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	269	0.0441939	0.0471395		7.5	+/-20
Aroclor-1016 (1)	A	250.00	262	0.0266860	0.0279276		4.8	
Aroclor-1016 (2)	A	250.00	263	0.0861572	0.0905735		5.2	
Aroclor-1016 (3)	A	250.00	272	0.0390425	0.0424102		8.8	
Aroclor-1016 (4)	A	250.00	278	0.0248899	0.0276468		11.2	
Aroclor 1016 [2C]	A	250.00	242	0.0467310	0.0425374		-3.3	+/-20
Aroclor-1016 (1) [2C]	A	250.00	251	0.0409030	0.0410689		0.4	
Aroclor-1016 (2) [2C]	A	250.00	199	0.0882154	0.0702749		-20.4	
Aroclor-1016 (3) [2C]	A	250.00	246	0.0378846	0.0372189		-1.6	
Aroclor-1016 (4) [2C]	A	250.00	271	0.0199212	0.0215869		8.4	
Aroclor 1260	A	250.00	293	0.0390342	0.0454354		17.3	+/-20
Aroclor-1260 (1)	A	250.00	296	0.0291201	0.0344839		18.4	
Aroclor-1260 (2)	A	250.00	293	0.0301181	0.0353297		17.2	
Aroclor-1260 (3)	A	250.00	290	0.0791351	0.0917911		16.0	
Aroclor-1260 (4)	A	250.00	282	0.0403003	0.0454210		12.8	
Aroclor-1260 (5)	A	250.00	305	0.0164974	0.0201511		22.0	
Aroclor 1260 [2C]	A	250.00	219	0.0617619	0.0497467		-12.4	+/-20
Aroclor-1260 (1) [2C]	A	250.00	249	0.0422283	0.0420021		-0.4	
Aroclor-1260 (2) [2C]	A	250.00	173	0.1059643	0.0733546		-30.8	
Aroclor-1260 (3) [2C]	A	250.00	263	0.0282173	0.0296610		5.2	
Aroclor-1260 (4) [2C]	A	250.00	191	0.0706376	0.0539693		-23.6	
Decachlorobiphenyl	A	40.000	45.0	0.7333327	0.8243327		12.5	+/-20
Tetrachlorometaxylene	A	40.000	39.6	1.1336710	1.1233550		-1.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1587260		2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.7	1.0966080	1.1152490		1.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312221ECD7.D
Data file 2: /221231.b/221231.b/12312221ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 31-DEC-2022 17:11
Report Date: 01/05/2023 17:03
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	140835	5.710	-0.001	95201	39.6	40.7	2.6	Tetrachloro-m-xylene
13.902	0.001	218165	14.128	-0.002	166601	45.0	40.8	9.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	250740	-44.0
Hexabromobiphenyl	798898	529313	-33.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	170726	-31.5
Hexabromobiphenyl	362541	287559	-20.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.005	21883	261.6	1	7.272	-0.001	21911	251.0
Aroclor-1016	2	7.676	-0.009	70970	262.8	2	7.871	-0.003	37493	199.2
Aroclor-1016	3	7.811	-0.006	33231	271.6	3	8.071	-0.001	19857	245.6
Aroclor-1016	4	8.423	-0.006	21663	277.7	4	8.242	-0.001	11517	270.9
Total Col1Ave (4 peaks):					268.4	Total Col2Ave (4 peaks):				241.7 RPD = 10
Corrected Ave (3 peaks):					265.3	Corrected Ave (3 peaks):				231.9 RPD = 13
CalAmt %D:					7.4	CalAmt %D:				-3.3
Aroclor-1260	1	11.055	-0.007	57040	296.0	1	11.663	0.000	37744	248.7
Aroclor-1260	2	11.373	-0.005	58439	293.3	2	11.926	0.000	65918	173.1
Aroclor-1260	3	11.745	-0.006	151832	290.0	3	12.444	-0.001	26654	262.8
Aroclor-1260	4	12.150	-0.009	75131	281.8	4	12.509	-0.001	48498	191.0
Aroclor-1260	5	12.256	-0.005	33332	305.4	NS	---			----
Total Col1Ave (5 peaks):					293.3	Total Col2Ave (4 peaks):				218.9 RPD = 29
Corrected Ave (4 peaks):					290.3	Corrected Ave (3 peaks):				204.2 RPD = 35
CalAmt %D:					17.3	CalAmt %D:				-12.4

Total PCB Area Col1 (5.932 - 13.801) = 1566647 Col1 Total PCB = 0.7 ppm*

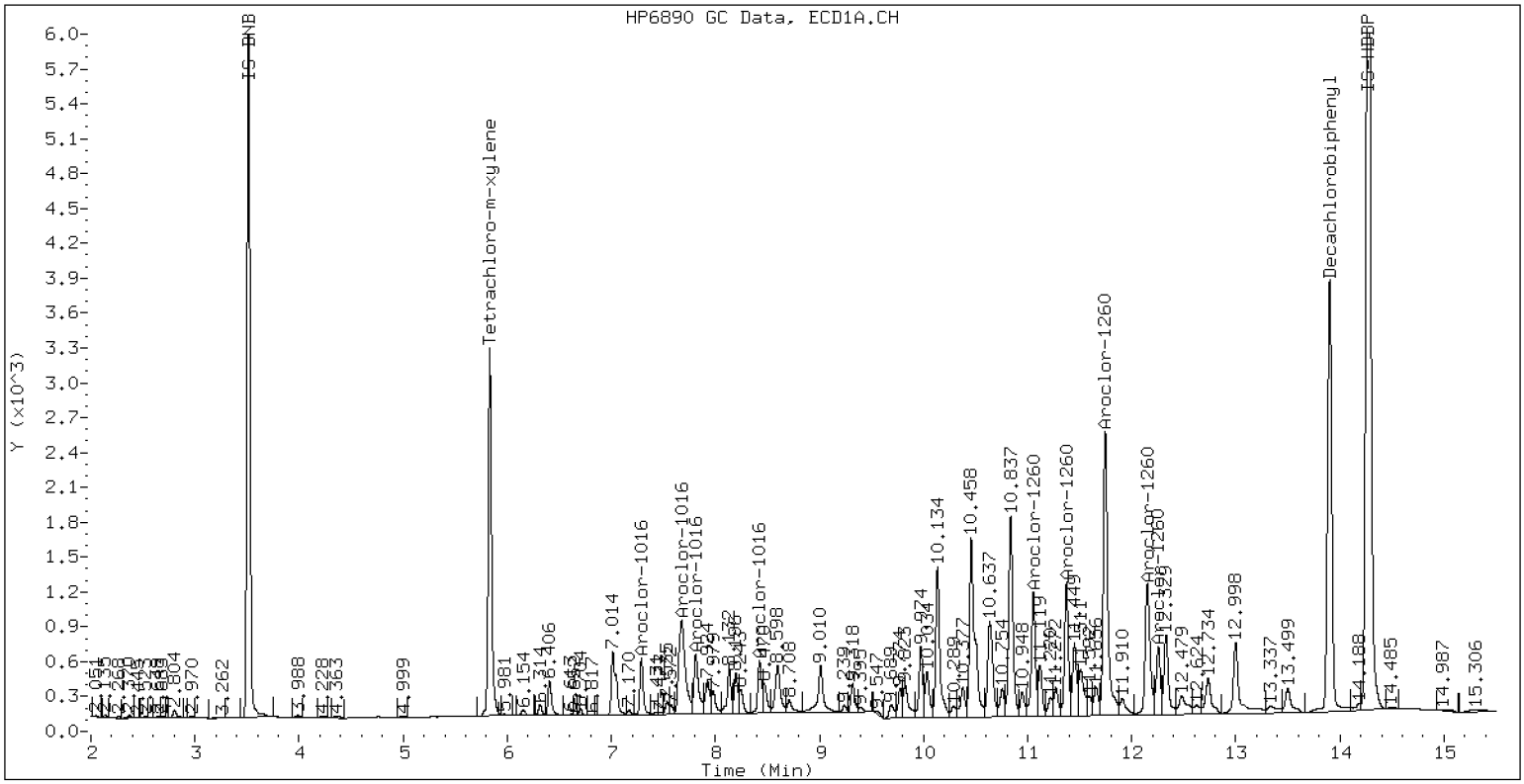
Total PCB Area Col2 (5.810 - 14.030) = 819007 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

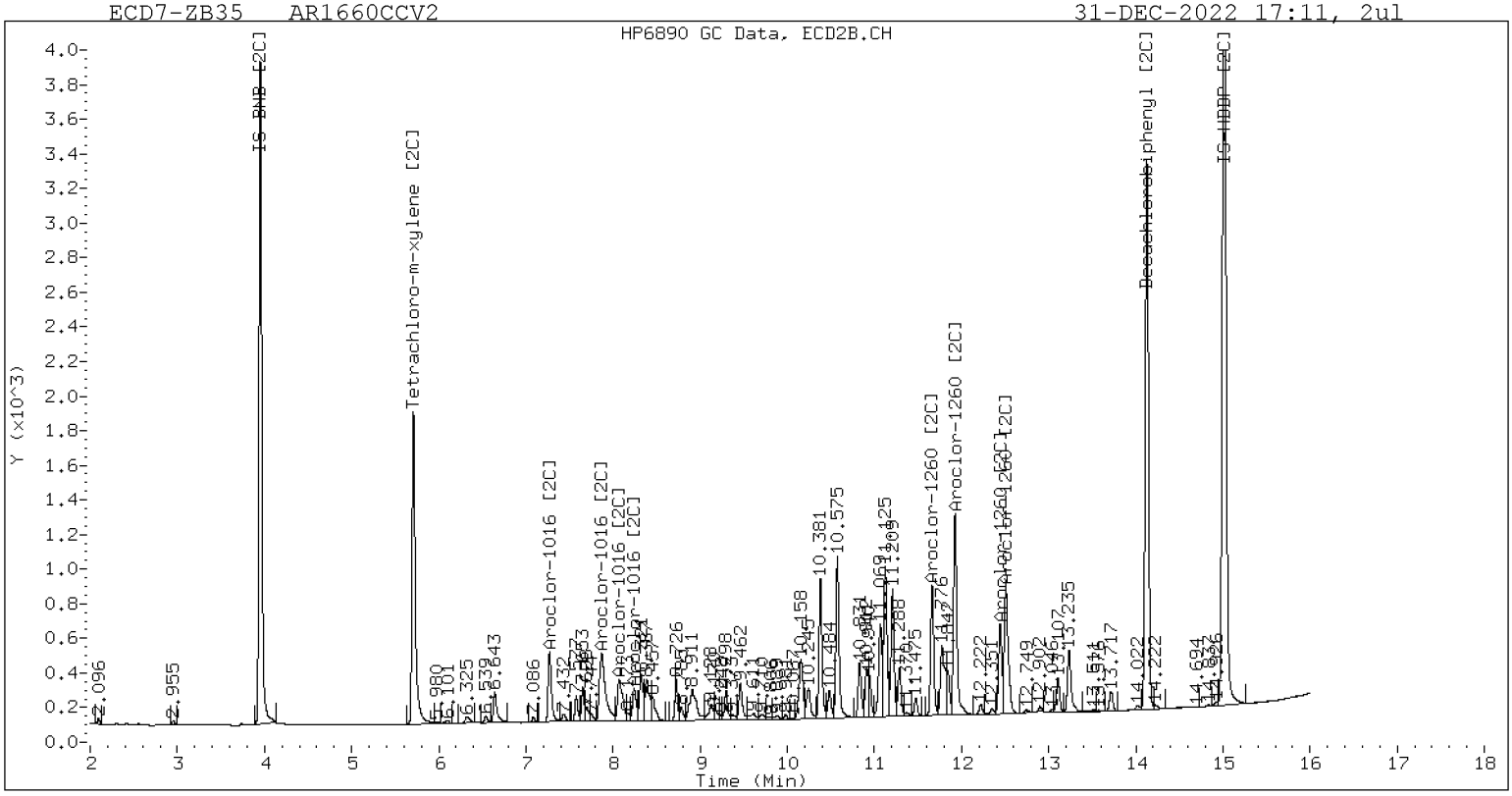
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 31-DEC-2022 17:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 31-DEC-2022 17:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312238ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	12/31/22
Lab Sample ID:	SLA0071-CCV3	Injection Time:	23:10
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	271	0.0396000	0.0423722		8.2	+/-20
Aroclor-1242 (1)	A	250.00	282		0.0255328			
Aroclor-1242 (2)	A	250.00	262		0.0756173			
Aroclor-1242 (3)	A	250.00	271		0.0224575			
Aroclor-1242 (4)	A	250.00	267		0.0458813			
Aroclor 1242 [2C]	A	250.00	267	0.0391981	0.0389778		6.6	+/-20
Aroclor-1242 (1) [2C]	A	250.00	267		0.0361778			
Aroclor-1242 (2) [2C]	A	250.00	206		0.0591282			
Aroclor-1242 (3) [2C]	A	250.00	295		0.0273256			
Aroclor-1242 (4) [2C]	A	250.00	298		0.0332794			
Decachlorobiphenyl	A	40.000	42.0	0.7333327	0.7704844		5.0	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1066290		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.0	1.1358180	1.1348730		0.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.3	1.0966080	1.0771940		-1.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312238ECD7.D
Data file 2: /221231.b/221231.b/12312238ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 31-DEC-2022 23:10
Report Date: 01/05/2023 17:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	179919	5.708	-0.002	118571	39.0	39.3	0.6	Tetrachloro-m-xylene
13.901	0.000	298753	14.128	-0.002	216153	42.0	40.0	5.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	325166	-27.4
Hexabromobiphenyl	798898	775494	-2.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	220148	-11.6
Hexabromobiphenyl	362541	380929	5.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1242	1	7.289	0.000	25945	281.5	1	7.272	0.000	24889	267.1
Aroclor-1242	2	7.678	0.000	76838	262.6	2	7.870	0.000	40678	205.7
Aroclor-1242	3	8.423	0.000	22820	271.0	3	9.170	0.000	18799	294.6
Aroclor-1242	4	9.023	0.000	46622	266.7	4	9.592	0.000	22895	298.5
Total Col1Ave (4 peaks):					270.4	Total Col2Ave (4 peaks):				266.5 RPD = 1
Corrected Ave (3 peaks):					266.8	Corrected Ave (3 peaks):				255.8 RPD = 4
CalAmt %D:					8.2	CalAmt %D:				6.6

Total PCB Area Col1 (5.932 - 13.801) = 750928 Col1 Total PCB = 0.2 ppm*

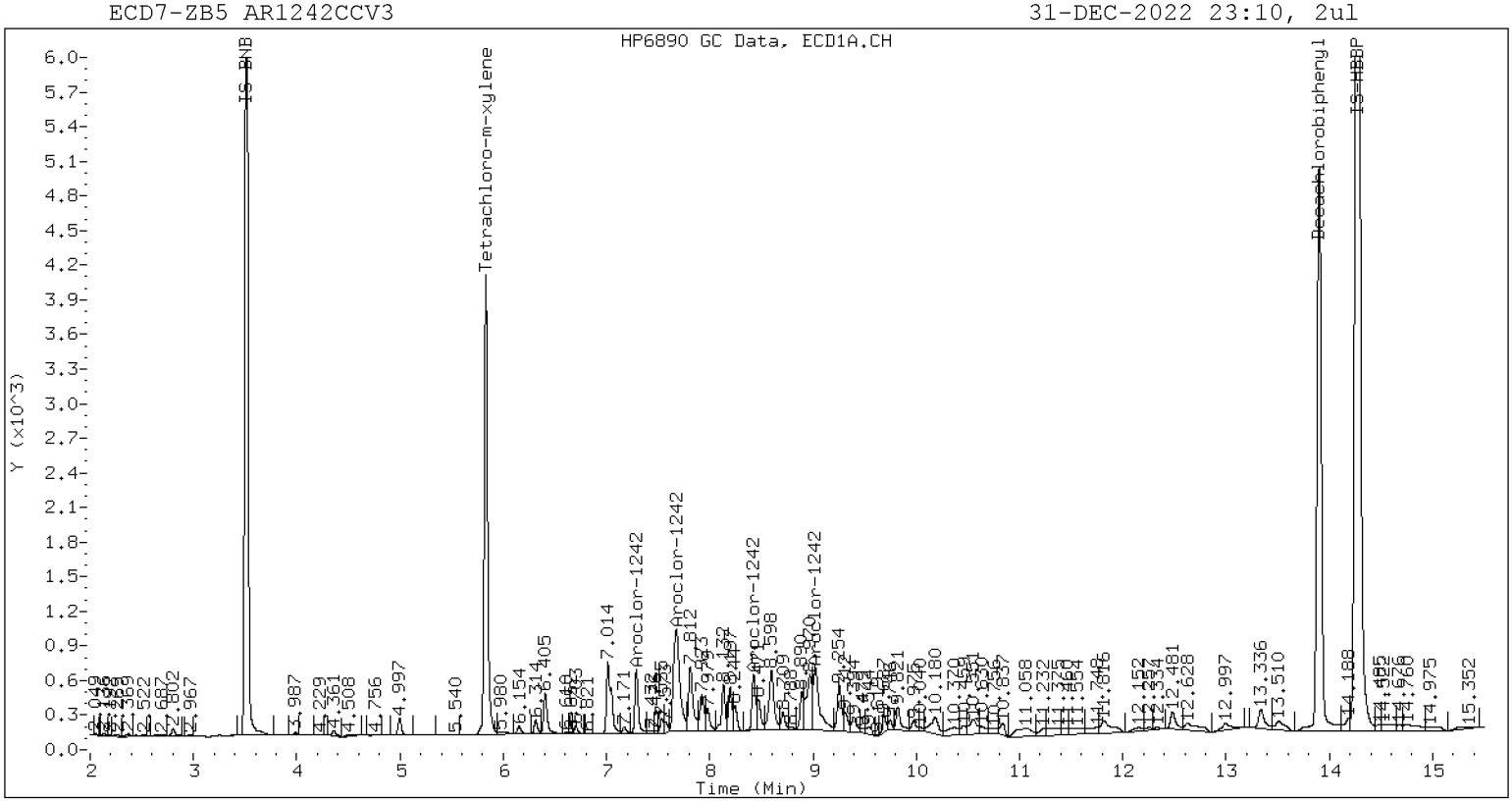
Total PCB Area Col2 (5.810 - 14.030) = 386676 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

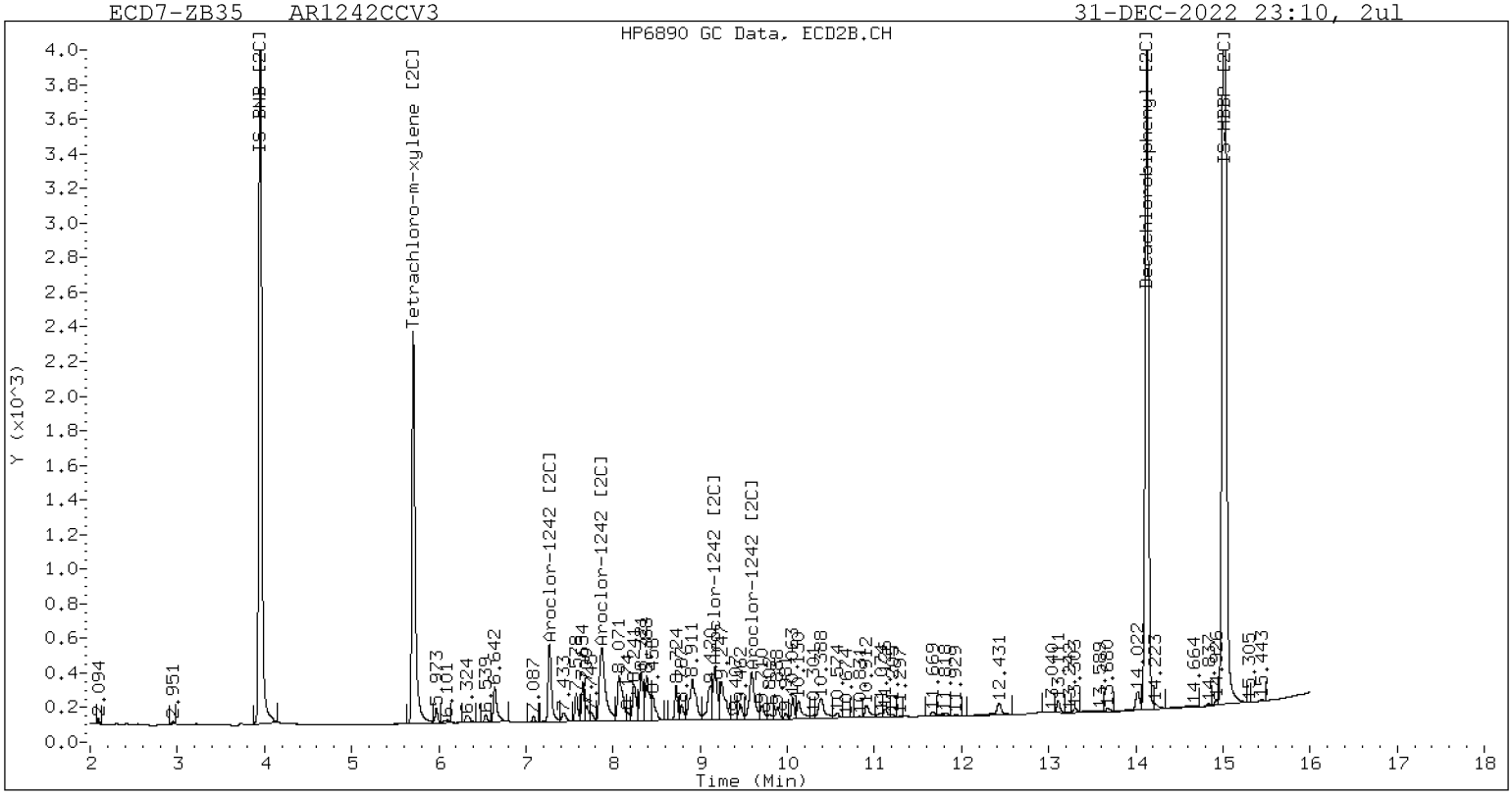
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 31-DEC-2022 23:10, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 31-DEC-2022 23:10, 2ul

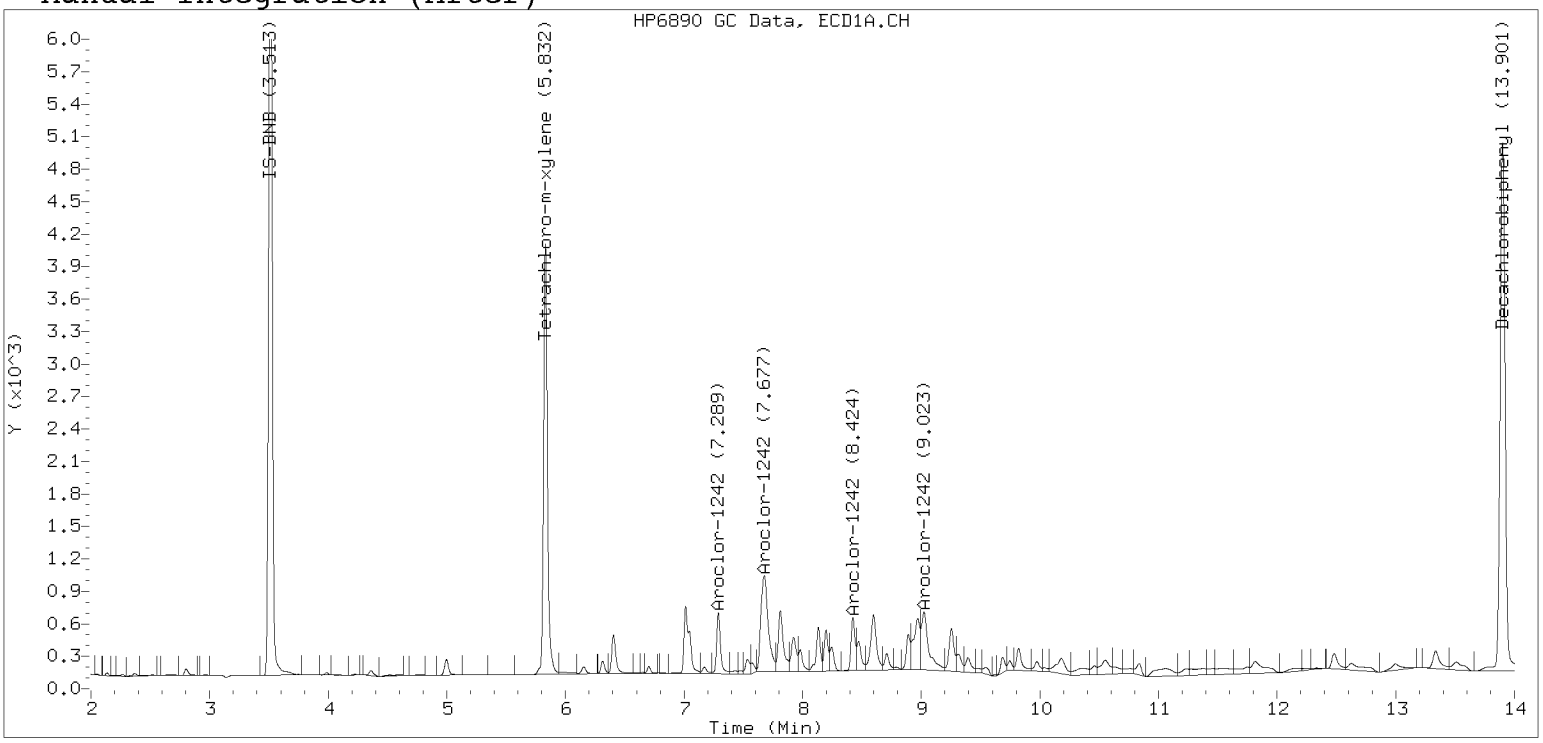


ZB-35 Manual Integration: NO

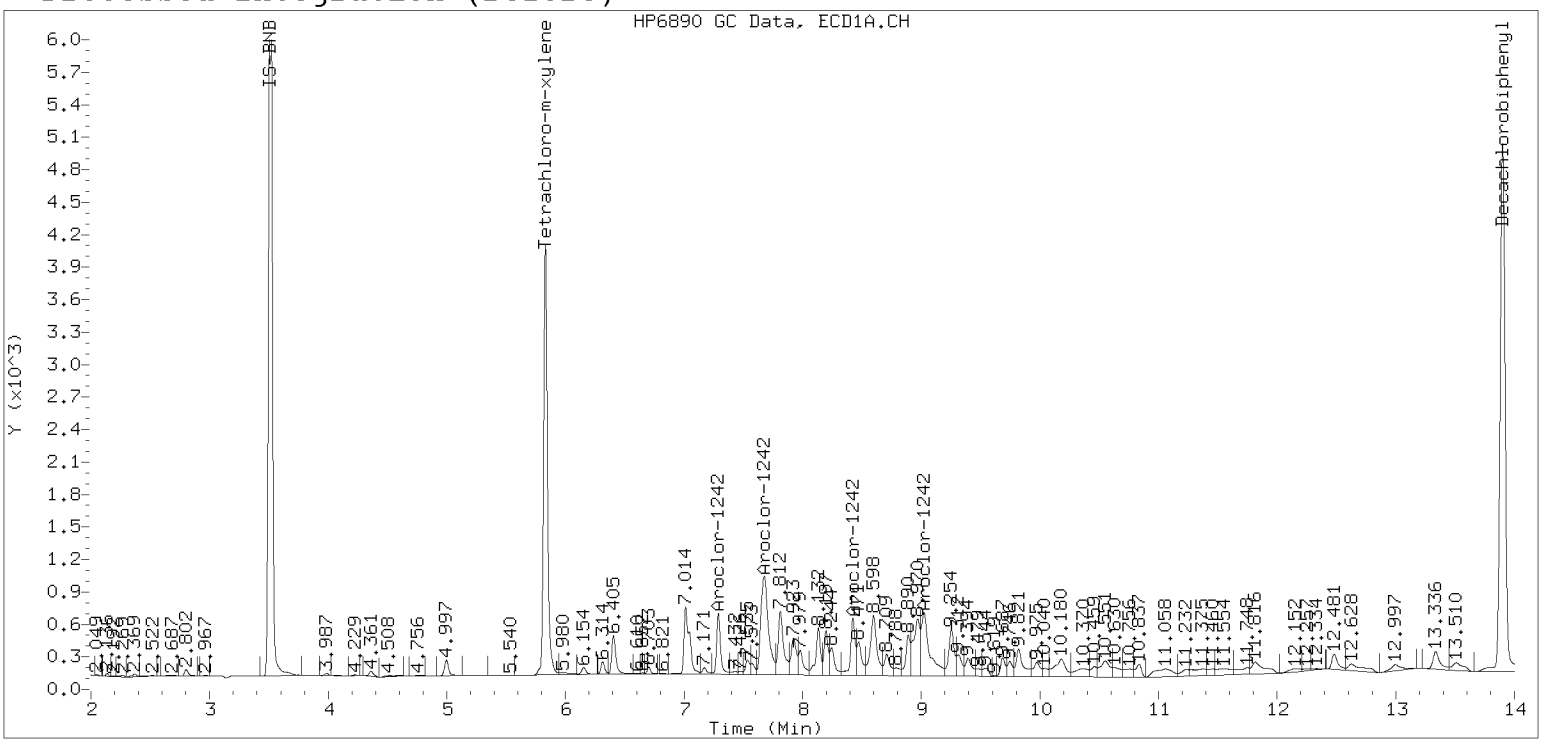
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221231.b/12312238ECD7.D Injection Date: 31-DEC-2022 23:10

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312239ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	12/31/22
Lab Sample ID:	SLA0071-CCV4	Injection Time:	23:31
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	262	0.0441939	0.0461870		4.8	+/-20
Aroclor-1016 (1)	A	250.00	255	0.0266860	0.0272414		2.0	
Aroclor-1016 (2)	A	250.00	259	0.0861572	0.0892206		3.6	
Aroclor-1016 (3)	A	250.00	267	0.0390425	0.0417024		6.8	
Aroclor-1016 (4)	A	250.00	267	0.0248899	0.0265837		6.8	
Aroclor 1016 [2C]	A	250.00	245	0.0467310	0.0431473		-2.2	+/-20
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0414465		1.2	
Aroclor-1016 (2) [2C]	A	250.00	203	0.0882154	0.0715418		-18.8	
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0379026		0.0	
Aroclor-1016 (4) [2C]	A	250.00	272	0.0199212	0.0216983		8.8	
Aroclor 1260	A	250.00	286	0.0390342	0.0444044		14.6	+/-20
Aroclor-1260 (1)	A	250.00	286	0.0291201	0.0333590		14.4	
Aroclor-1260 (2)	A	250.00	285	0.0301181	0.0343483		14.0	
Aroclor-1260 (3)	A	250.00	285	0.0791351	0.0901377		14.0	
Aroclor-1260 (4)	A	250.00	275	0.0403003	0.0443098		10.0	
Aroclor-1260 (5)	A	250.00	301	0.0164974	0.0198672		20.4	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0467579		-17.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	235	0.0422283	0.0397537		-6.0	
Aroclor-1260 (2) [2C]	A	250.00	162	0.1059643	0.0686140		-35.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0280458		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	179	0.0706376	0.0506181		-28.4	
Decachlorobiphenyl	A	40.000	47.0	0.7333327	0.8611980		17.5	+/-20
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1125820		-2.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1502410		1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.2	1.0966080	1.1019960		0.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312239ECD7.D
Data file 2: /221231.b/221231.b/12312239ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 31-DEC-2022 23:31
Report Date: 01/05/2023 17:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	144259	5.708	-0.002	96569	39.3	40.2	2.4	Tetrachloro-m-xylene
13.904	0.003	254059	14.128	-0.002	184827	47.0	40.5	14.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	259323	-42.1
Hexabromobiphenyl	798898	590013	-26.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	175262	-29.6
Hexabromobiphenyl	362541	321371	-11.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.005	22076	255.2	1	7.273	-0.001	22700	253.3
Aroclor-1016	2	7.677	-0.007	72303	258.9	2	7.872	-0.002	39183	202.7
Aroclor-1016	3	7.812	-0.006	33795	267.0	3	8.071	-0.001	20759	250.1
Aroclor-1016	4	8.424	-0.005	21543	267.0	4	8.242	-0.001	11884	272.3
Total Col1Ave (4 peaks):					262.0	Total Col2Ave (4 peaks):				244.6 RPD = 7
Corrected Ave (3 peaks):					260.4	Corrected Ave (3 peaks):				235.4 RPD = 10
CalAmt %D:					4.8	CalAmt %D:				-2.2
Aroclor-1260	1	11.057	-0.005	61507	286.4	1	11.664	0.000	39924	235.3
Aroclor-1260	2	11.374	-0.004	63331	285.1	2	11.926	-0.000	68908	161.9
Aroclor-1260	3	11.747	-0.005	166195	284.8	3	12.444	-0.001	28166	248.5
Aroclor-1260	4	12.150	-0.008	81698	274.9	4	12.509	-0.001	50835	179.1
Aroclor-1260	5	12.256	-0.006	36631	301.1	NS	---			----
Total Col1Ave (5 peaks):					286.4	Total Col2Ave (4 peaks):				206.2 RPD = 33
Corrected Ave (4 peaks):					282.8	Corrected Ave (3 peaks):				192.1 RPD = 38
CalAmt %D:					14.6	CalAmt %D:				-17.5

Total PCB Area Col1 (5.932 - 13.801) = 1677899 Col1 Total PCB = 0.7 ppm*

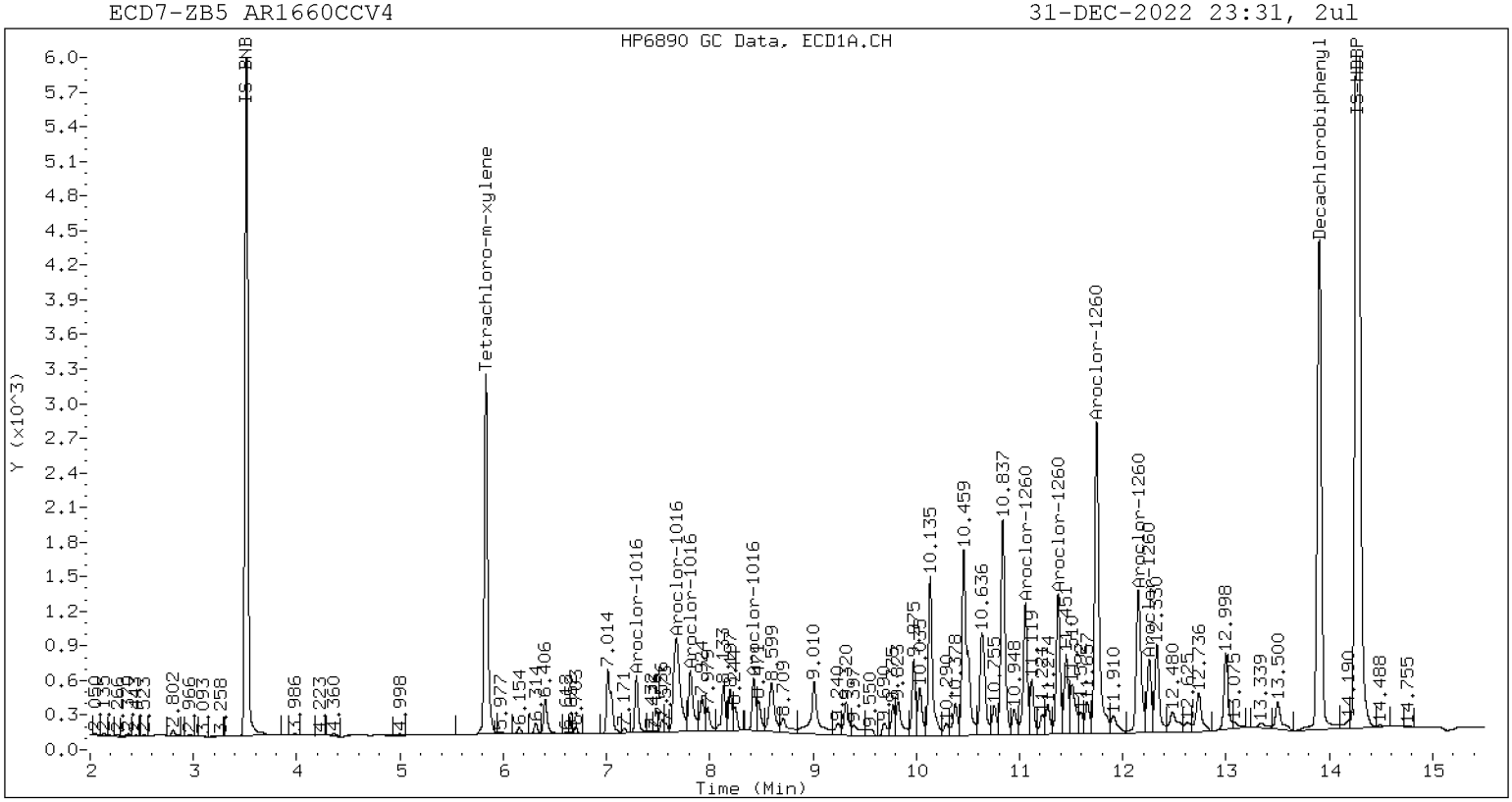
Total PCB Area Col2 (5.810 - 14.030) = 848882 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

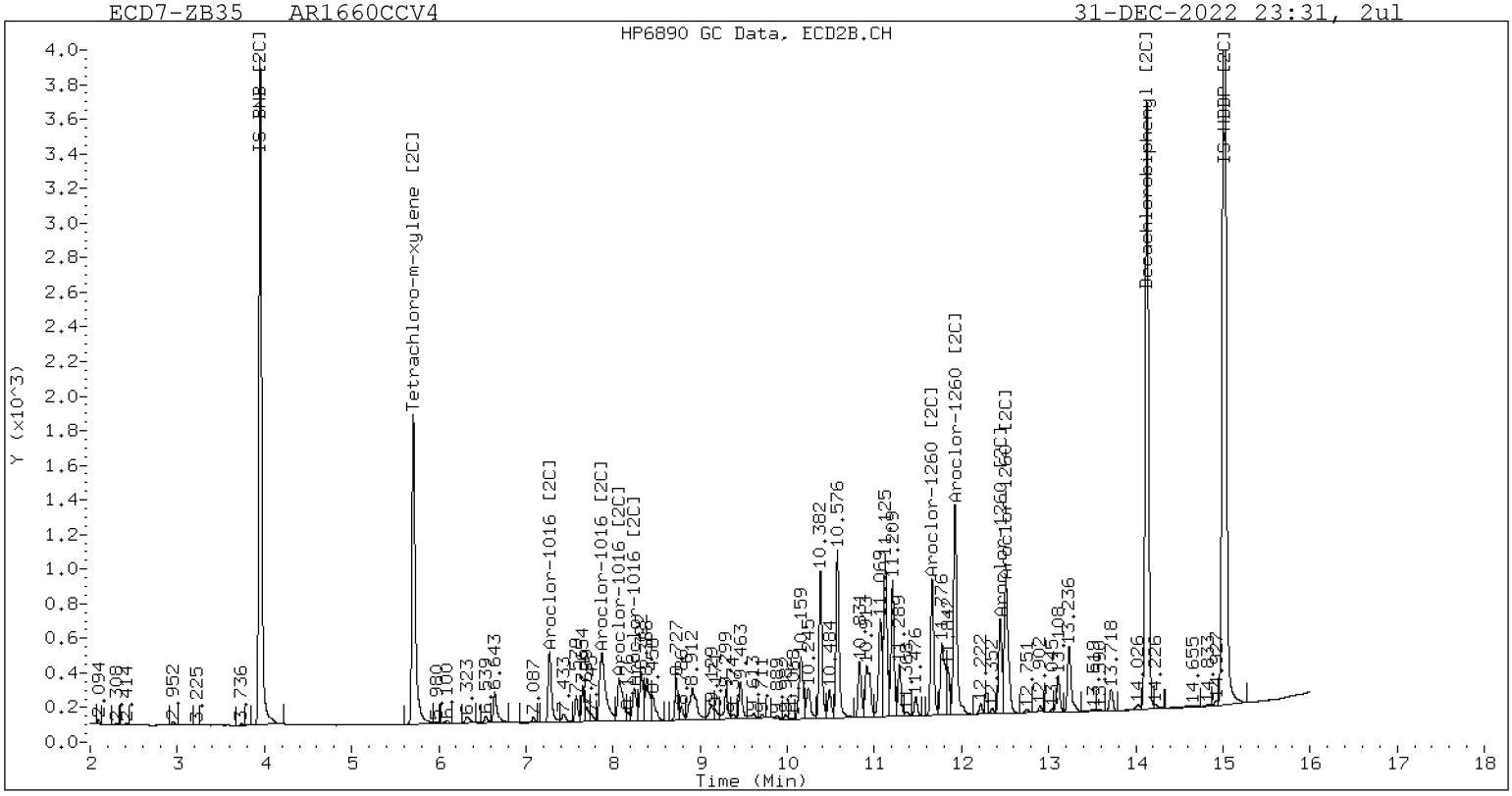
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 31-DEC-2022 23:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 31-DEC-2022 23:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312250ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	01/01/23
Lab Sample ID:	SLA0071-CCV5	Injection Time:	03:22
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	267	0.0576965	0.0624815		6.9	+/-20
Aroclor-1254 (1)	A	250.00	245		0.0691506			
Aroclor-1254 (2)	A	250.00	270		0.0296129			
Aroclor-1254 (3)	A	250.00	223		0.0397411			
Aroclor-1254 (4)	A	250.00	290		0.1006239			
Aroclor-1254 (5)	A	250.00	308		0.0732792			
Aroclor 1254 [2C]	A	250.00	237	0.0638047	0.0620114		-5.0	+/-20
Aroclor-1254 (1) [2C]	A	250.00	241		0.0497144			
Aroclor-1254 (2) [2C]	A	250.00	159		0.0264150			
Aroclor-1254 (3) [2C]	A	250.00	222		0.0791295			
Aroclor-1254 (4) [2C]	A	250.00	283		0.1046263			
Aroclor-1254 (5) [2C]	A	250.00	282		0.0501716			
Decachlorobiphenyl	A	40.000	44.1	0.7333327	0.8079811		10.3	+/-20
Tetrachlorometaxylene	A	40.000	36.5	1.1336710	1.0350970		-8.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.1	1.1358180	1.1680180		2.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.1	1.0966080	0.9891596		-9.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312250ECD7.D
Data file 2: /221231.b/221231.b/12312250ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 01-JAN-2023 03:22
Report Date: 01/05/2023 17:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	185610	5.708	-0.002	121861	36.5	36.1	1.2	Tetrachloro-m-xylene
13.903	0.002	300169	14.129	-0.001	231403	44.1	41.1	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	358633	-19.9
Hexabromobiphenyl	798898	743010	-7.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	246393	-1.1
Hexabromobiphenyl	362541	396232	9.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.314	-0.008	77499	245.4	1	9.461	0.000	38279	241.0
Aroclor-1254	2	9.393	-0.009	33188	270.3	2	9.979	0.000	20339	159.2
Aroclor-1254	3	9.685	-0.009	44539	223.3	3	10.130	0.000	60928	221.9
Aroclor-1254	4	9.820	-0.010	112772	290.1	4	10.378	0.000	80560	283.3
Aroclor-1254	5	10.173	-0.016	82126	308.2	5	10.575	0.000	38631	281.7
Total Col1Ave (5 peaks):					267.5	Total Col2Ave (5 peaks):				237.4 RPD = 12
Corrected Ave (4 peaks):					257.3	Corrected Ave (4 peaks):				226.0 RPD = 13
CalAmt %D:					7.0	CalAmt %D:				-5.0

Total PCB Area Col1 (5.932 - 13.801) = 1175140 Col1 Total PCB = 0.3 ppm*

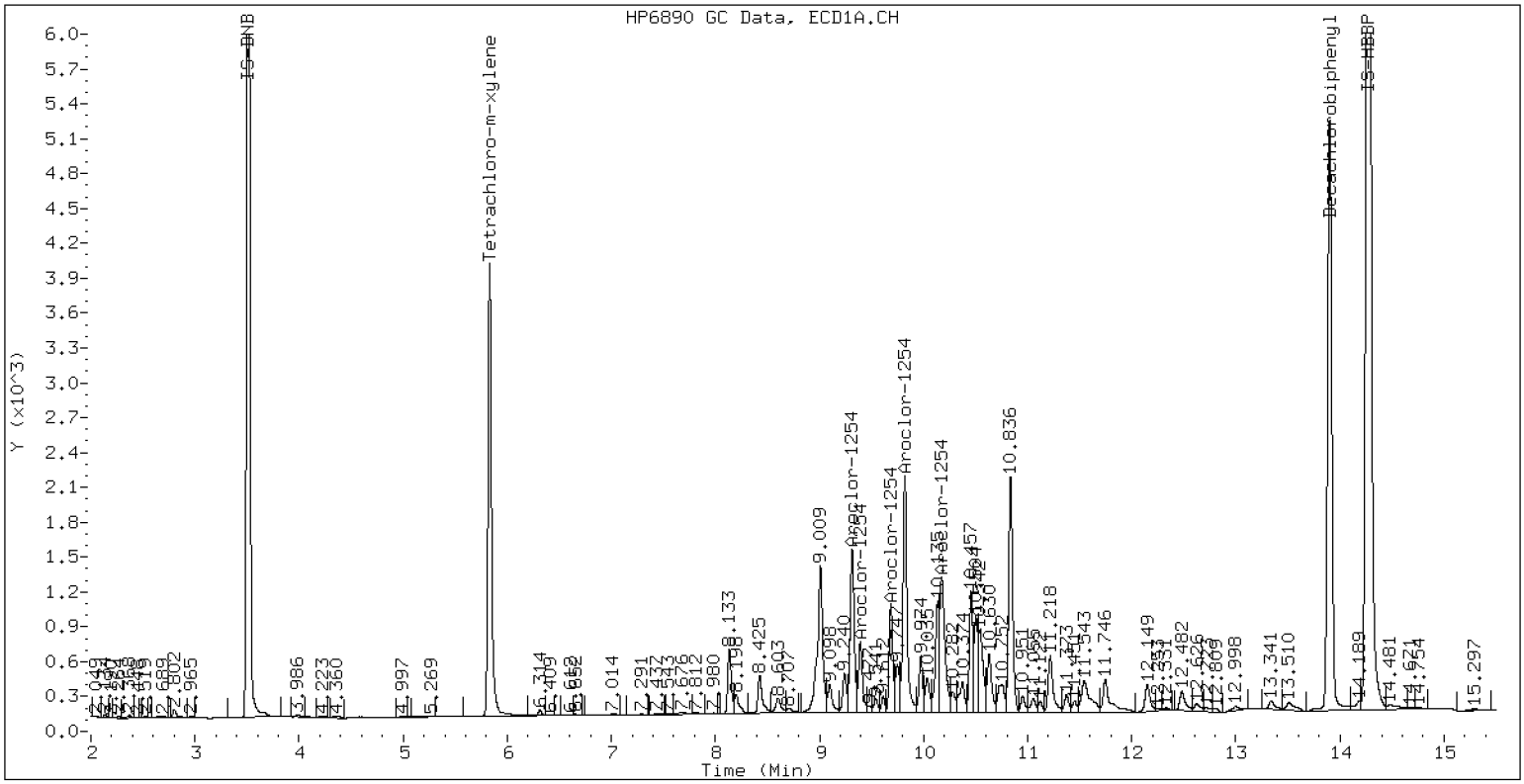
Total PCB Area Col2 (5.810 - 14.030) = 692706 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

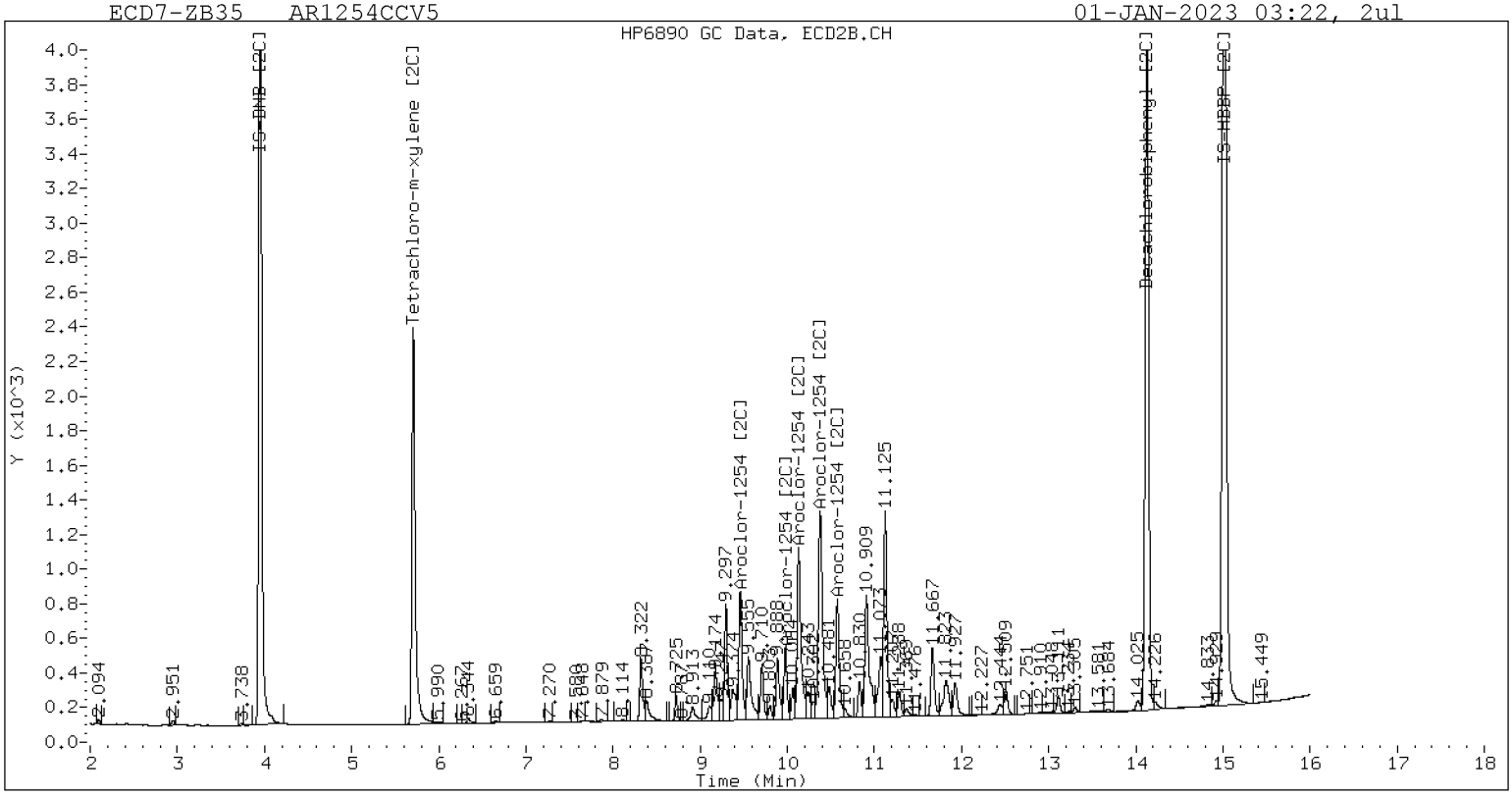
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 01-JAN-2023 03:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 01-JAN-2023 03:22, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312251ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	01/01/23
Lab Sample ID:	SLA0071-CCV6	Injection Time:	03:43
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	292	0.0441939	0.0502327		16.9	+/-20
Aroclor-1016 (1)	A	250.00	281	0.0266860	0.0300203		12.4	
Aroclor-1016 (2)	A	250.00	269	0.0861572	0.0928531		7.6	
Aroclor-1016 (3)	A	250.00	290	0.0390425	0.0453244		16.0	
Aroclor-1016 (4)	A	250.00	329	0.0248899	0.0327329		31.6	
Aroclor 1016 [2C]	A	250.00	237	0.0467310	0.0418416		-5.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	247	0.0409030	0.0403854		-1.2	
Aroclor-1016 (2) [2C]	A	250.00	196	0.0882154	0.0692878		-21.6	
Aroclor-1016 (3) [2C]	A	250.00	242	0.0378846	0.0366702		-3.2	
Aroclor-1016 (4) [2C]	A	250.00	264	0.0199212	0.0210232		5.6	
Aroclor 1260	A	250.00	279	0.0390342	0.0433026		11.4	+/-20
Aroclor-1260 (1)	A	250.00	278	0.0291201	0.0324505		11.2	
Aroclor-1260 (2)	A	250.00	279	0.0301181	0.0335699		11.6	
Aroclor-1260 (3)	A	250.00	278	0.0791351	0.0881563		11.2	
Aroclor-1260 (4)	A	250.00	267	0.0403003	0.0431074		6.8	
Aroclor-1260 (5)	A	250.00	291	0.0164974	0.0192290		16.4	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0469445		-17.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	236	0.0422283	0.0399530		-5.6	
Aroclor-1260 (2) [2C]	A	250.00	163	0.1059643	0.0692256		-34.8	
Aroclor-1260 (3) [2C]	A	250.00	247	0.0282173	0.0278999		-1.2	
Aroclor-1260 (4) [2C]	A	250.00	179	0.0706376	0.0506997		-28.4	
Decachlorobiphenyl	A	40.000	45.3	0.7333327	0.8305950		13.3	+/-20
Tetrachlorometaxylene	A	40.000	38.8	1.1336710	1.1006490		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1542410		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1048360		0.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312251ECD7.D
Data file 2: /221231.b/221231.b/12312251ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 01-JAN-2023 03:43
Report Date: 01/05/2023 17:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	145874	5.710	-0.000	98447	38.8	40.3	3.7	Tetrachloro-m-xylene
13.901	0.001	250392	14.129	-0.001	183514	45.3	40.6	10.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	265069	-40.8
Hexabromobiphenyl	798898	602922	-24.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	178211	-28.5
Hexabromobiphenyl	362541	317982	-12.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.005	24867	281.2	1	7.273	-0.001	22491	246.8
Aroclor-1016	2	7.677	-0.007	76914	269.4	2	7.874	-0.001	38587	196.4
Aroclor-1016	3	7.812	-0.006	37544	290.2	3	8.071	-0.001	20422	242.0
Aroclor-1016	4	8.423	-0.006	27114	328.8	4	8.242	-0.002	11708	263.8
Total Col1Ave (4 peaks):					292.4	Total Col2Ave (4 peaks):				237.3 RPD = 21
Corrected Ave (3 peaks):					280.3	Corrected Ave (3 peaks):				228.4 RPD = 20
CalAmt %D:					17.0	CalAmt %D:				-5.1
Aroclor-1260	1	11.055	-0.007	61141	278.6	1	11.663	-0.000	39701	236.5
Aroclor-1260	2	11.372	-0.005	63250	278.7	2	11.927	0.001	68789	163.3
Aroclor-1260	3	11.745	-0.007	166098	278.5	3	12.444	-0.001	27724	247.2
Aroclor-1260	4	12.149	-0.010	81220	267.4	4	12.509	-0.000	50380	179.4
Aroclor-1260	5	12.253	-0.008	36230	291.4	NS	---			----
Total Col1Ave (5 peaks):					278.9	Total Col2Ave (4 peaks):				206.6 RPD = 30
Corrected Ave (4 peaks):					275.8	Corrected Ave (3 peaks):				193.1 RPD = 35
CalAmt %D:					11.6	CalAmt %D:				-17.4

Total PCB Area Col1 (5.932 - 13.801) = 1751270 Col1 Total PCB = 0.7 ppm*

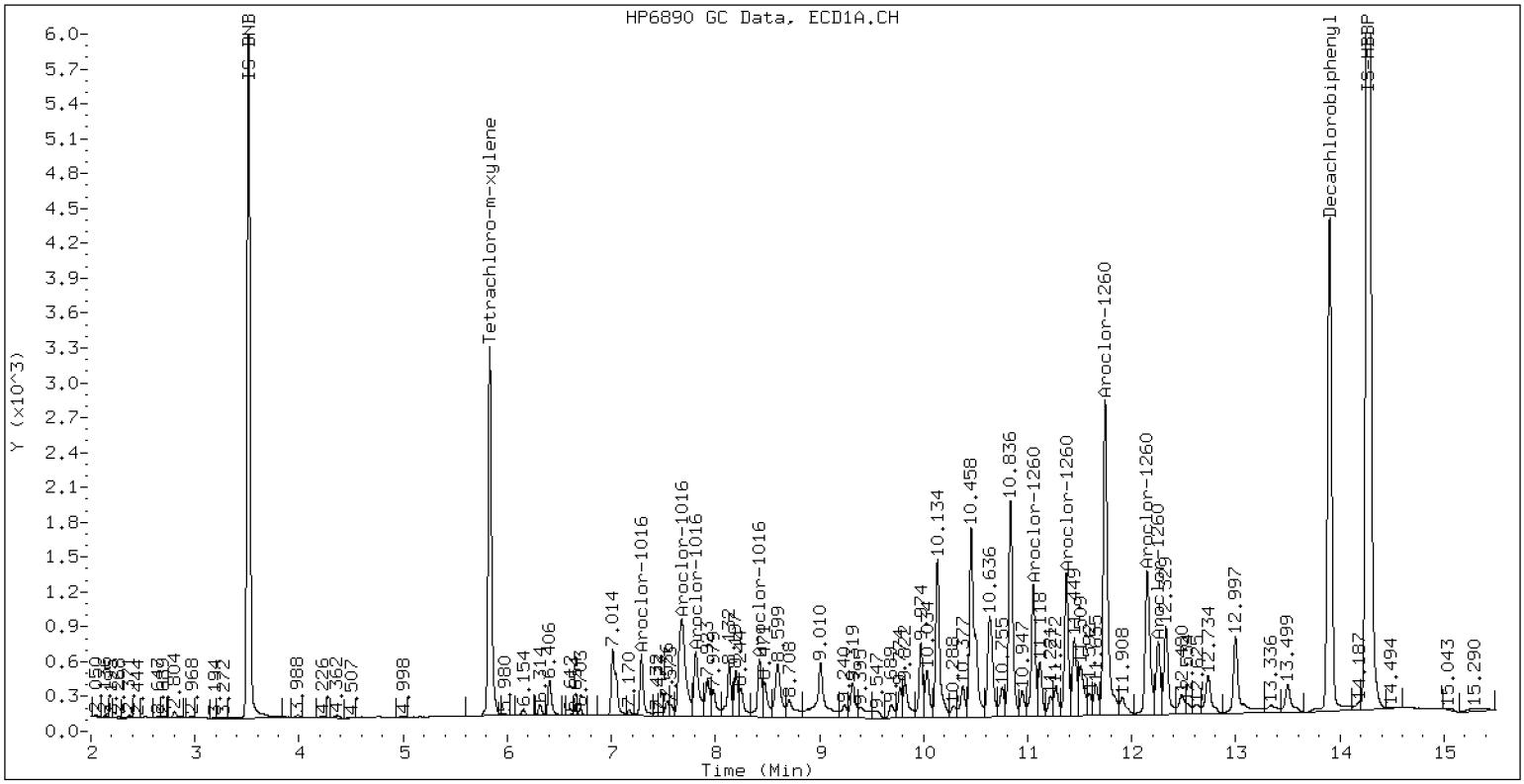
Total PCB Area Col2 (5.810 - 14.030) = 849448 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

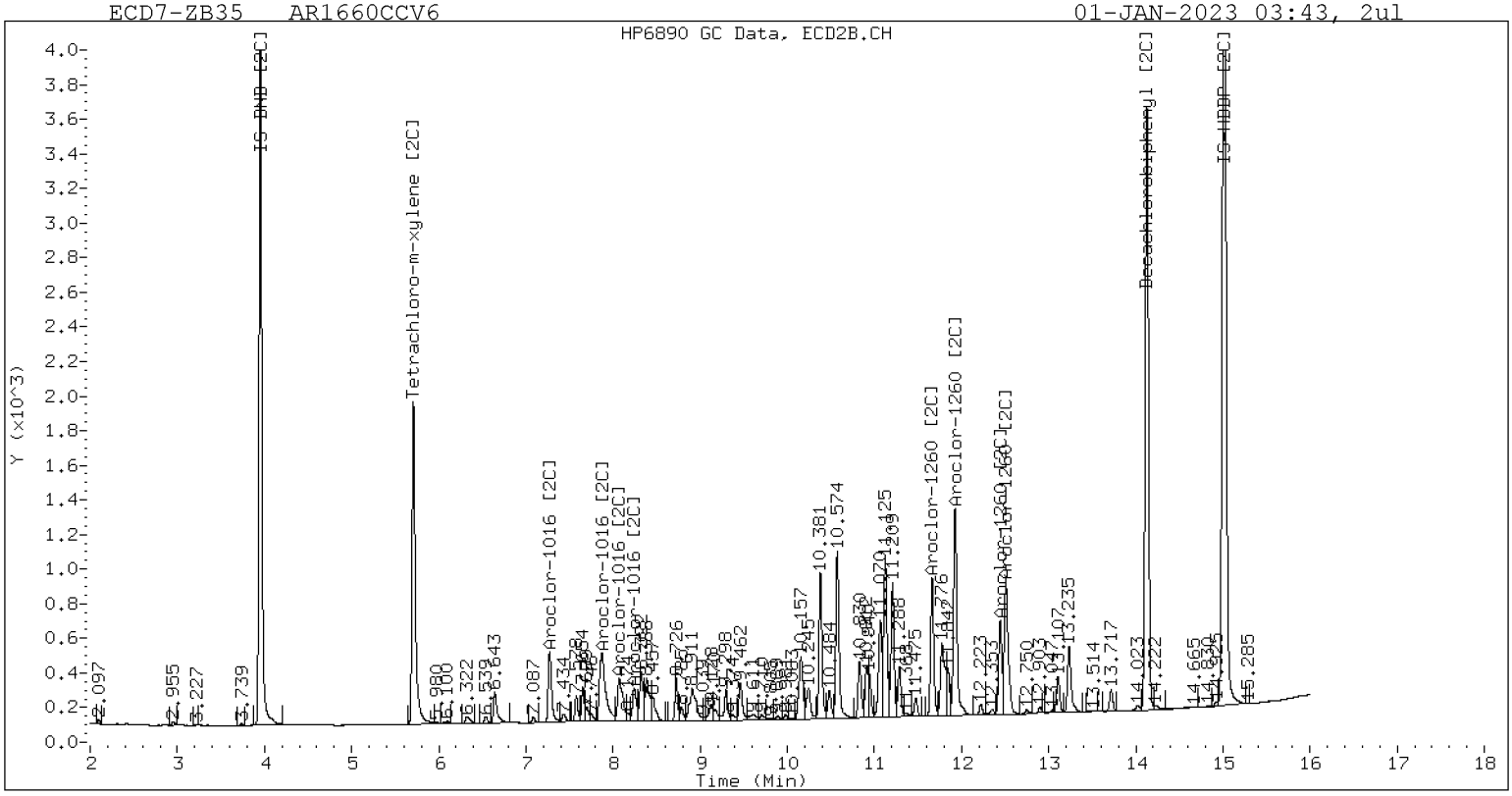
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 01-JAN-2023 03:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 01-JAN-2023 03:43, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312258ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	01/01/23
Lab Sample ID:	SLA0071-CCV7	Injection Time:	06:11
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	261	0.0490062	0.0526088		4.4	+/-20
Aroclor-1248 (1)	A	250.00	289		0.0398016			
Aroclor-1248 (2)	A	250.00	300		0.0527292			
Aroclor-1248 (3)	A	250.00	295		0.0932007			
Aroclor-1248 (4)	A	250.00	160		0.0247038			
Aroclor 1248 [2C]	A	250.00	253	0.0394876	0.0403901		1.0	+/-20
Aroclor-1248 (1) [2C]	A	250.00	263		0.0344452			
Aroclor-1248 (2) [2C]	A	250.00	192		0.0263896			
Aroclor-1248 (3) [2C]	A	250.00	281		0.0469752			
Aroclor-1248 (4) [2C]	A	250.00	274		0.0537503			
Decachlorobiphenyl	A	40.000	42.1	0.7333327	0.7721680		5.3	+/-20
Tetrachlorometaxylene	A	40.000	35.3	1.1336710	0.9997205		-11.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.0	1.1358180	1.1363640		0.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.4	1.0966080	0.9716632		-11.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312258ECD7.D
Data file 2: /221231.b/221231.b/12312258ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 01-JAN-2023 06:11
Report Date: 01/05/2023 17:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	0.003	182418	5.712	0.002	120563	35.3	35.4	0.5	Tetrachloro-m-xylene
13.901	0.000	318905	14.129	-0.001	244974	42.1	40.0	5.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	364938	-18.5
Hexabromobiphenyl	798898	825999	3.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	248158	-0.4
Hexabromobiphenyl	362541	431154	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.425	-0.003	45391	289.3	1	8.323	0.000	26712	263.5
Aroclor-1248	2	8.599	-0.005	60134	300.2	2	8.729	0.000	20465	191.9
Aroclor-1248	3	9.019	-0.003	106289	294.9	3	9.174	0.000	36429	280.9
Aroclor-1248	4	9.312	0.001	28173	159.6	4	9.595	0.000	41683	273.8
Total Col1Ave (4 peaks):					261.0	Total Col2Ave (4 peaks):				252.5 RPD = 3
Corrected Ave (3 peaks):					247.9	Corrected Ave (3 peaks):				243.1 RPD = 2
CalAmt %D:					4.4	CalAmt %D:				1.0

Total PCB Area Col1 (5.932 - 13.801) = 1023807 Col1 Total PCB = 0.3 ppm*

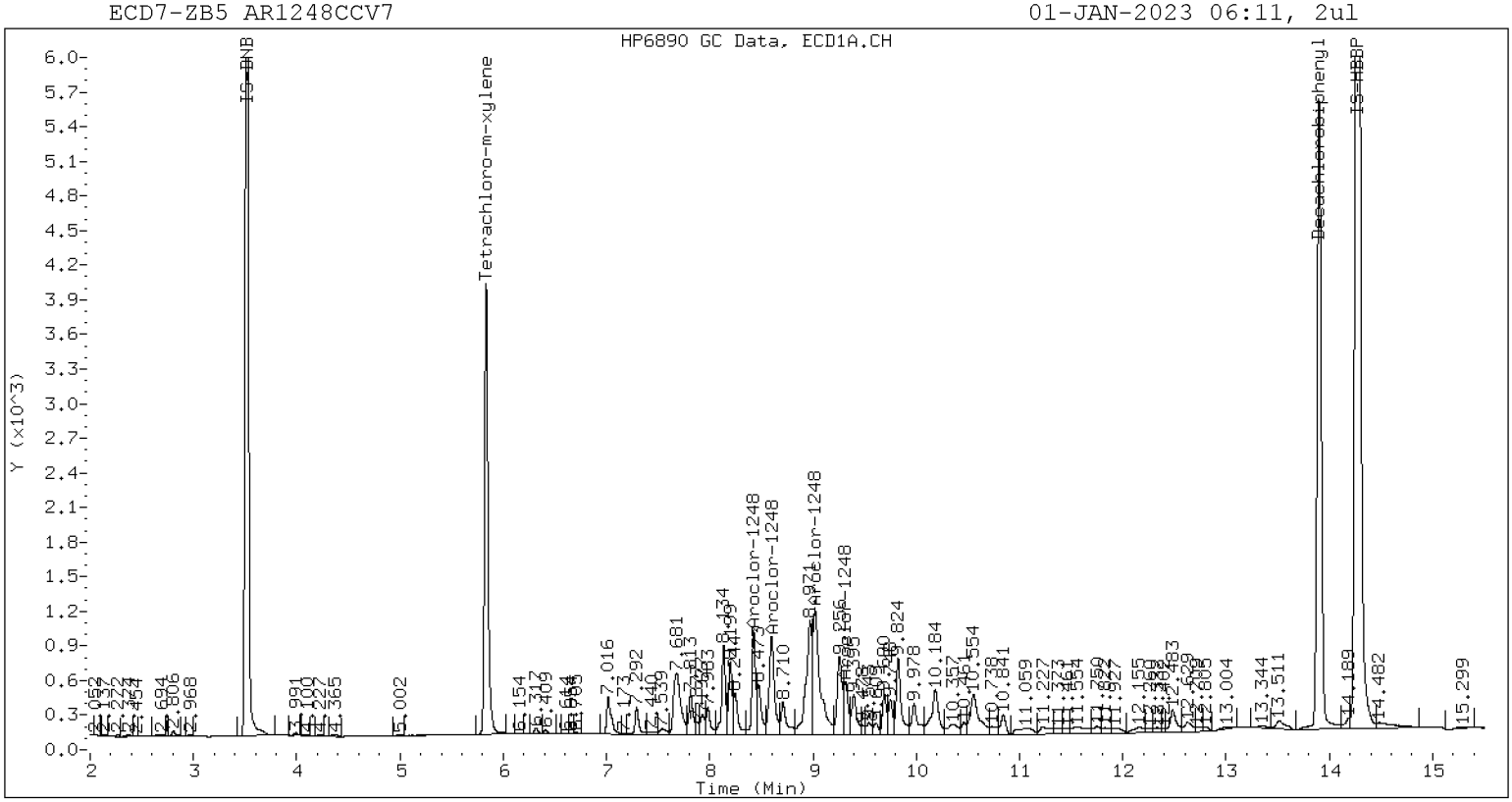
Total PCB Area Col2 (5.810 - 14.030) = 512863 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

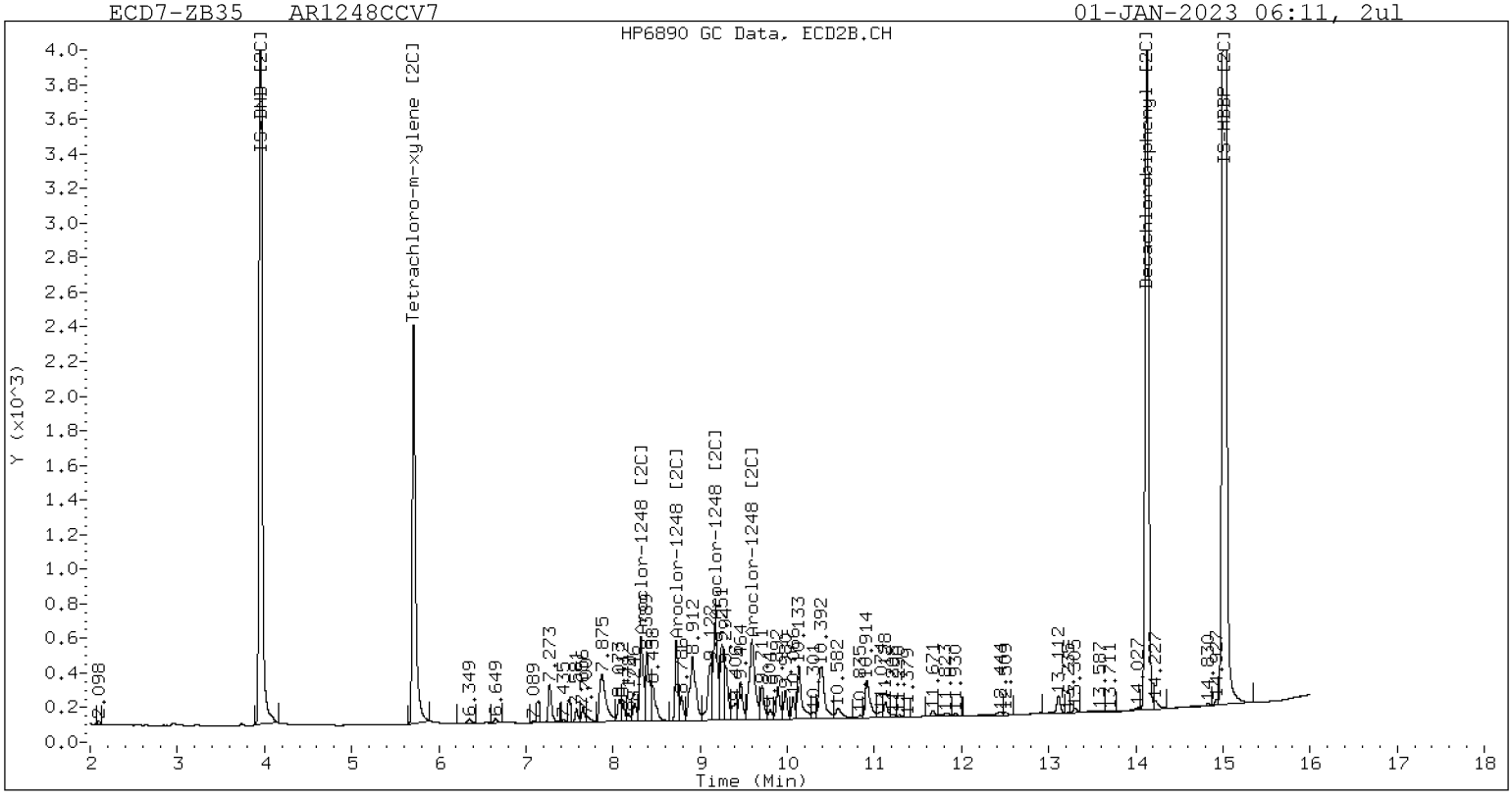
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 01-JAN-2023 06:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 01-JAN-2023 06:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12312259ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0071	Injection Date:	01/01/23
Lab Sample ID:	SLA0071-CCV8	Injection Time:	06:32
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	266	0.0441939	0.0465682		6.4	+/-20
Aroclor-1016 (1)	A	250.00	257	0.0266860	0.0274081		2.8	
Aroclor-1016 (2)	A	250.00	258	0.0861572	0.0889990		3.2	
Aroclor-1016 (3)	A	250.00	269	0.0390425	0.0419835		7.6	
Aroclor-1016 (4)	A	250.00	280	0.0248899	0.0278822		12.0	
Aroclor 1016 [2C]	A	250.00	241	0.0467310	0.0426241		-3.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	251	0.0409030	0.0410908		0.4	
Aroclor-1016 (2) [2C]	A	250.00	200	0.0882154	0.0707050		-20.0	
Aroclor-1016 (3) [2C]	A	250.00	246	0.0378846	0.0373204		-1.6	
Aroclor-1016 (4) [2C]	A	250.00	268	0.0199212	0.0213800		7.2	
Aroclor 1260	A	250.00	267	0.0390342	0.0413795		6.6	+/-20
Aroclor-1260 (1)	A	250.00	269	0.0291201	0.0313301		7.6	
Aroclor-1260 (2)	A	250.00	267	0.0301181	0.0321443		6.8	
Aroclor-1260 (3)	A	250.00	265	0.0791351	0.0839448		6.0	
Aroclor-1260 (4)	A	250.00	256	0.0403003	0.0412519		2.4	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0182264		10.4	
Aroclor 1260 [2C]	A	250.00	204	0.0617619	0.0462464		-18.4	+/-20
Aroclor-1260 (1) [2C]	A	250.00	233	0.0422283	0.0393955		-6.8	
Aroclor-1260 (2) [2C]	A	250.00	160	0.1059643	0.0679356		-36.0	
Aroclor-1260 (3) [2C]	A	250.00	246	0.0282173	0.0277124		-1.6	
Aroclor-1260 (4) [2C]	A	250.00	177	0.0706376	0.0499423		-29.2	
Decachlorobiphenyl	A	40.000	44.7	0.7333327	0.8192977		11.8	+/-20
Tetrachlorometaxylene	A	40.000	38.3	1.1336710	1.0868280		-4.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.7	1.1358180	1.1547600		1.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.0966080	1.0815010		-1.5	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221231.b/12312259ECD7.D
Data file 2: /221231.b/221231.b/12312259ECD7.D
Method: \\target\share\chem4\ecd7.i\221231.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 01-JAN-2023 06:32
Report Date: 01/05/2023 17:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	144897	5.710	0.000	97341	38.3	39.4	2.8	Tetrachloro-m-xylene
13.902	0.002	259710	14.130	0.000	190406	44.7	40.7	9.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	266642	-40.4
Hexabromobiphenyl	798898	633982	-20.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	180011	-27.7
Hexabromobiphenyl	362541	329776	-9.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.291	-0.004	22838	256.8	1	7.273	0.000	23115	251.1
Aroclor-1016	2	7.678	-0.007	74159	258.2	2	7.874	0.000	39774	200.4
Aroclor-1016	3	7.813	-0.004	34983	268.8	3	8.072	0.000	20994	246.3
Aroclor-1016	4	8.424	-0.005	23233	280.1	4	8.244	0.000	12027	268.3
Total Col1Ave (4 peaks):					266.0	Total Col2Ave (4 peaks):				241.5 RPD = 10
Corrected Ave (3 peaks):					261.3	Corrected Ave (3 peaks):				232.6 RPD = 12
CalAmt %D:					6.4	CalAmt %D:				-3.4
Aroclor-1260	1	11.057	-0.006	62071	269.0	1	11.663	0.000	40599	233.2
Aroclor-1260	2	11.373	-0.004	63684	266.8	2	11.926	0.000	70011	160.3
Aroclor-1260	3	11.746	-0.005	166311	265.2	3	12.445	0.000	28559	245.5
Aroclor-1260	4	12.150	-0.008	81728	255.9	4	12.509	0.000	51468	176.8
Aroclor-1260	5	12.256	-0.005	36110	276.2	NS	---			----
Total Col1Ave (5 peaks):					266.6	Total Col2Ave (4 peaks):				203.9 RPD = 27
Corrected Ave (4 peaks):					264.2	Corrected Ave (3 peaks):				190.1 RPD = 33
CalAmt %D:					6.6	CalAmt %D:				-18.4

Total PCB Area Col1 (5.932 - 13.801) = 1682972 Col1 Total PCB = 0.7 ppm*

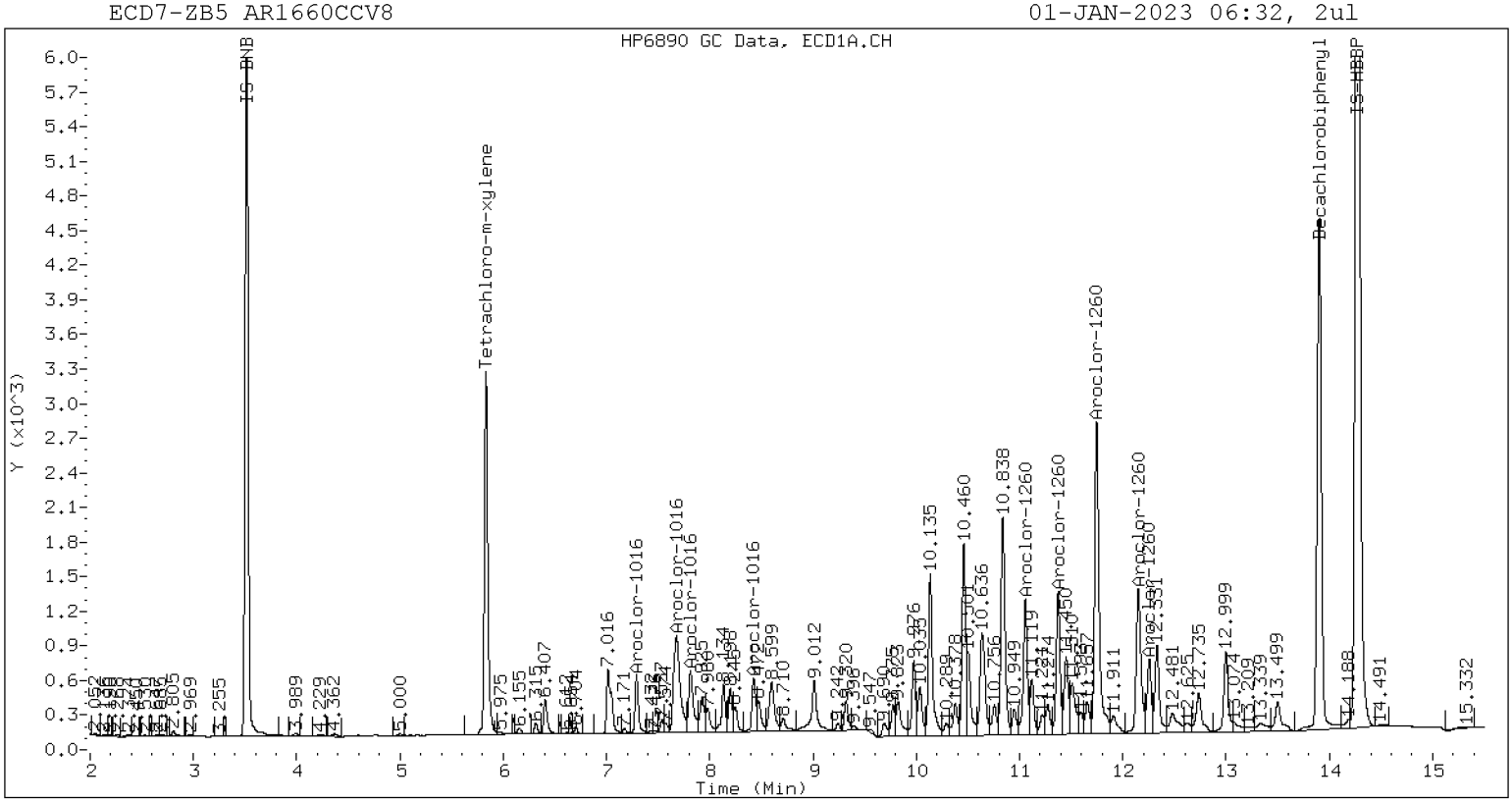
Total PCB Area Col2 (5.810 - 14.030) = 872304 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

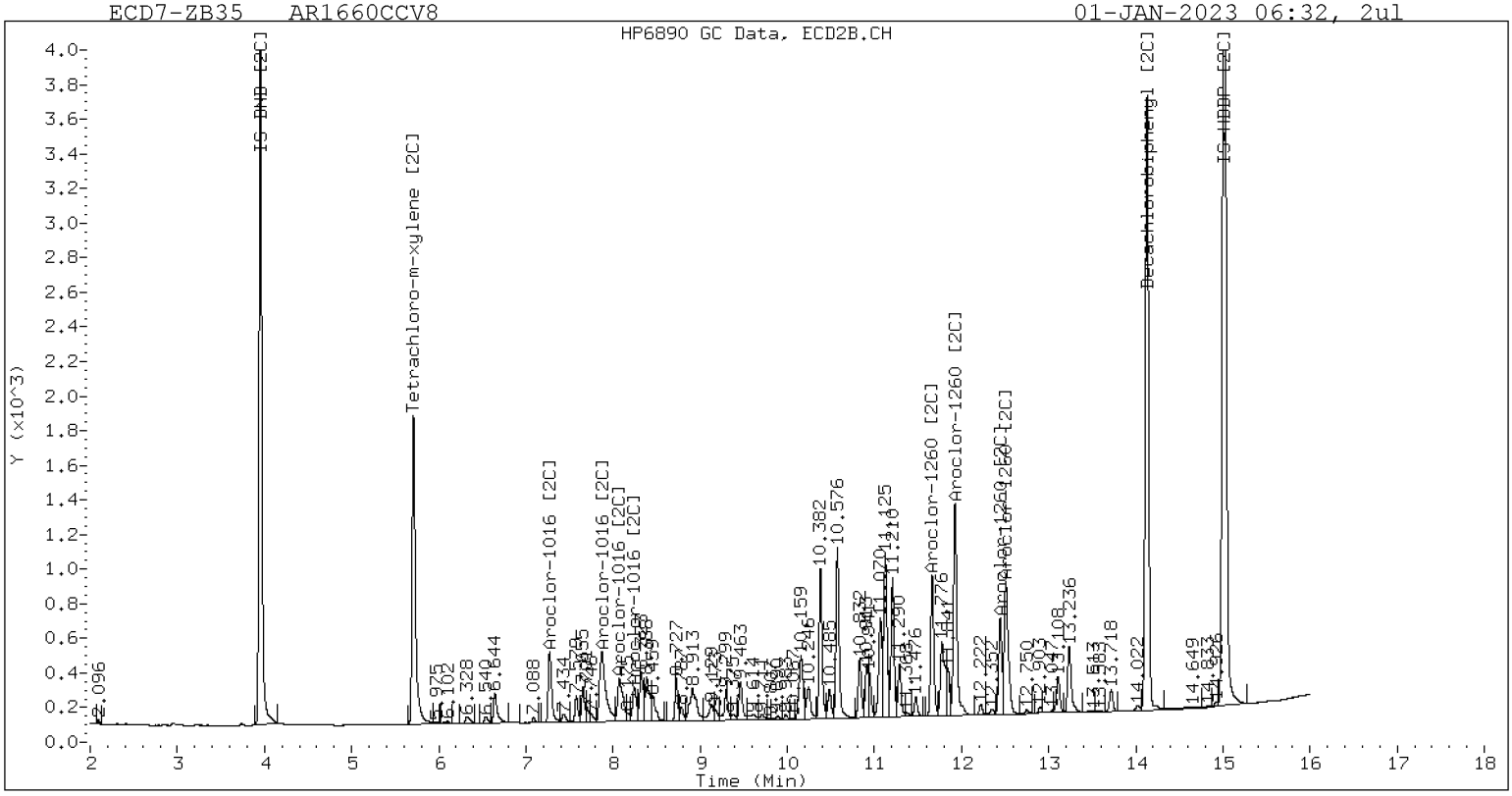
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 01-JAN-2023 06:32, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 01-JAN-2023 06:32, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032311ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV1	Injection Time:	11:48
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	266	0.0490062	0.0535437		6.4	+/-20
Aroclor-1248 (1)	A	250.00	295		0.0405439			
Aroclor-1248 (2)	A	250.00	308		0.0540628			
Aroclor-1248 (3)	A	250.00	300		0.0946702			
Aroclor-1248 (4)	A	250.00	161		0.0248977			
Aroclor 1248 [2C]	A	250.00	255	0.0394876	0.0407588		1.9	+/-20
Aroclor-1248 (1) [2C]	A	250.00	267		0.0348697			
Aroclor-1248 (2) [2C]	A	250.00	190		0.0260557			
Aroclor-1248 (3) [2C]	A	250.00	284		0.0474172			
Aroclor-1248 (4) [2C]	A	250.00	278		0.0546926			
Decachlorobiphenyl	A	40.000	42.2	0.7333327	0.7734552		5.5	+/-20
Tetrachlorometaxylene	A	40.000	37.5	1.1336710	1.0618250		-6.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.9	1.1358180	1.1626860		2.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.8	1.0966080	1.0356690		-5.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032311ECD7.D
Data file 2: /230103.b/230103.b/01032311ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 03-JAN-2023 11:48
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	195353	5.708	-0.000	131602	37.5	37.8	0.8	Tetrachloro-m-xylene
13.902	-0.001	358080	14.129	-0.000	269034	42.2	40.9	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	367957	-17.8
Hexabromobiphenyl	798898	925923	15.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254139	2.0
Hexabromobiphenyl	362541	462780	27.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.005	46620	294.7	1	8.321	0.000	27693	266.7
Aroclor-1248	2	8.597	-0.007	62165	307.8	2	8.725	0.000	20693	189.5
Aroclor-1248	3	9.016	-0.006	108858	299.6	3	9.171	0.000	37658	283.5
Aroclor-1248	4	9.311	-0.001	28629	160.8	4	9.592	0.000	43436	278.6
Total Col1Ave (4 peaks):					265.7	Total Col2Ave (4 peaks):				254.6 RPD = 4
Corrected Ave (3 peaks):					251.7	Corrected Ave (3 peaks):				244.9 RPD = 3
CalAmt %D:					6.3	CalAmt %D:				1.8

Total PCB Area Col1 (5.932 - 13.803) = 1077042 Col1 Total PCB = 0.3 ppm*

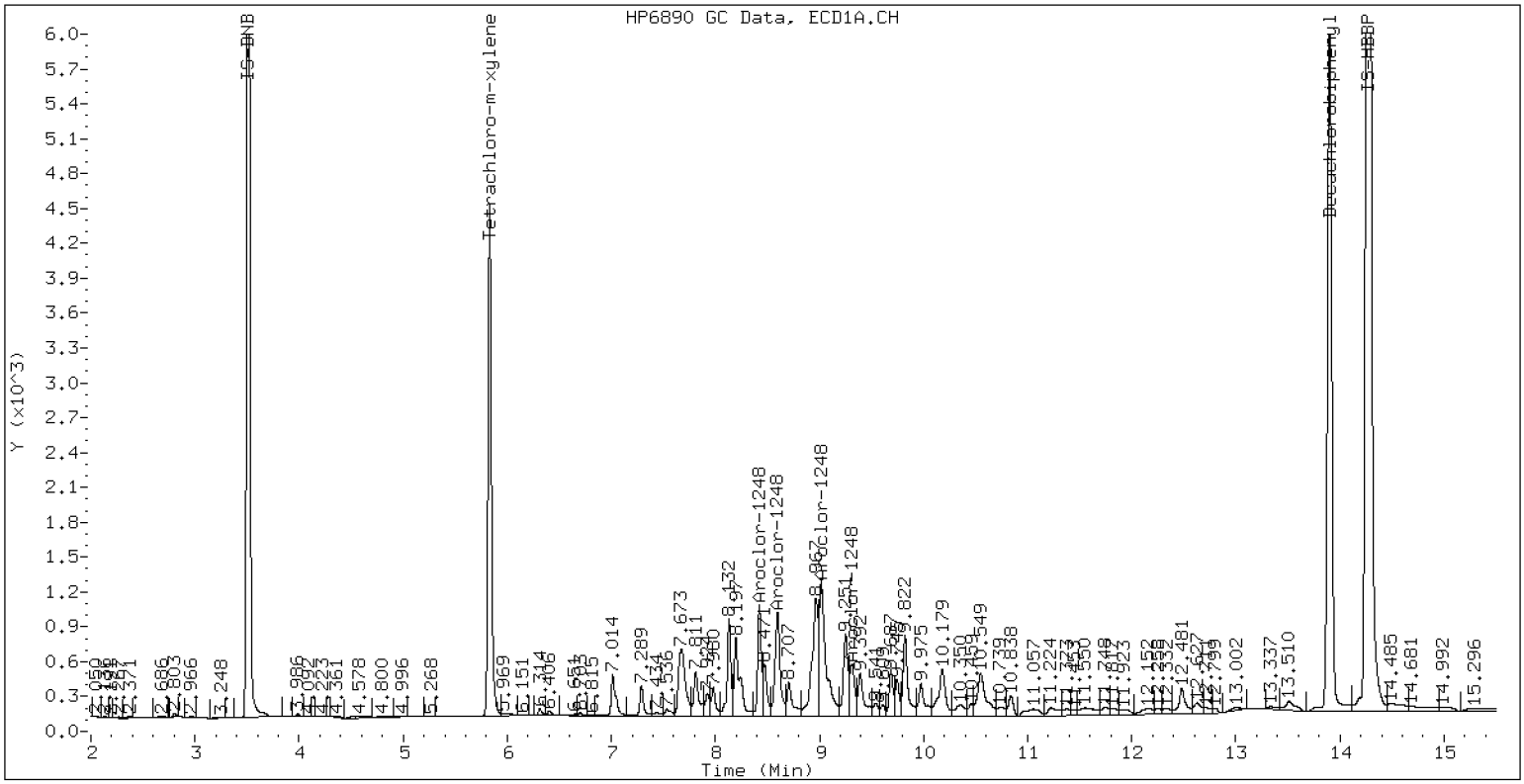
Total PCB Area Col2 (5.808 - 14.029) = 524542 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

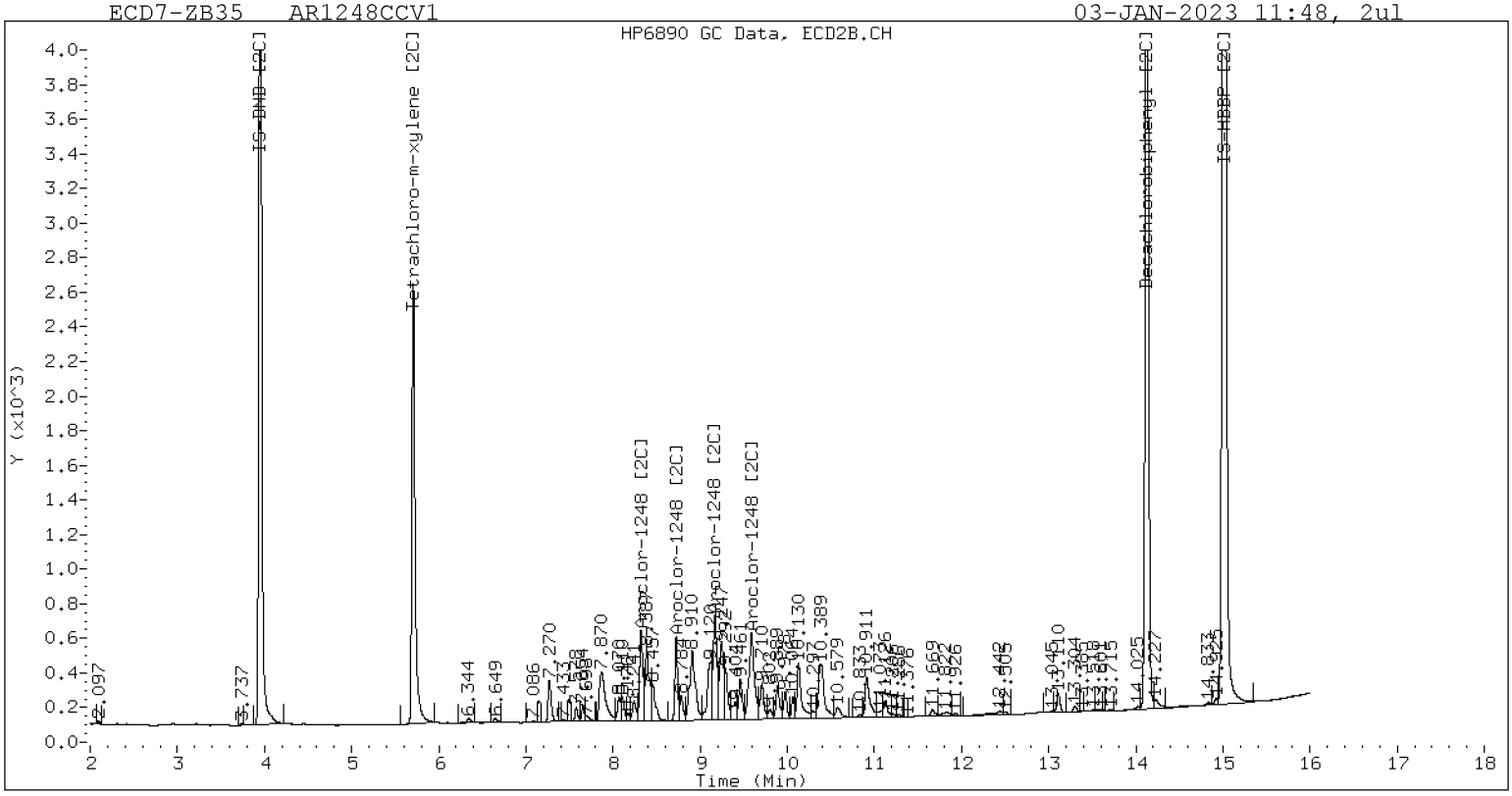
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 03-JAN-2023 11:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 03-JAN-2023 11:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032312ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV2	Injection Time:	12:09
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	260	0.0441939	0.0459291		3.9	+/-20	
Aroclor-1016 (1)	A	250.00	250	0.0266860	0.0266979		0.0		
Aroclor-1016 (2)	A	250.00	260	0.0861572	0.0894840		4.0		
Aroclor-1016 (3)	A	250.00	261	0.0390425	0.0408088		4.4		
Aroclor-1016 (4)	A	250.00	268	0.0248899	0.0267256		7.2		
Aroclor 1016 [2C]	A	250.00	245	0.0467310	0.0429025		-2.1	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	257	0.0409030	0.0420485		2.8		
Aroclor-1016 (2) [2C]	A	250.00	198	0.0882154	0.0697524		-20.8		
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0379486		0.0		
Aroclor-1016 (4) [2C]	A	250.00	274	0.0199212	0.0218605		9.6		
Aroclor 1260	A	250.00	255	0.0390342	0.0397104		2.2	+/-20	
Aroclor-1260 (1)	A	250.00	253	0.0291201	0.0294820		1.2		
Aroclor-1260 (2)	A	250.00	254	0.0301181	0.0305425		1.6		
Aroclor-1260 (3)	A	250.00	255	0.0791351	0.0808164		2.0		
Aroclor-1260 (4)	A	250.00	248	0.0403003	0.0400739		-0.8		
Aroclor-1260 (5)	A	250.00	267	0.0164974	0.0176374		6.8		
Aroclor 1260 [2C]	A	250.00	200	0.0617619	0.0445703		-20.2	+/-20	*
Aroclor-1260 (1) [2C]	A	250.00	234	0.0422283	0.0395356		-6.4		
Aroclor-1260 (2) [2C]	A	250.00	150	0.1059643	0.0634886		-40.0		
Aroclor-1260 (3) [2C]	A	250.00	246	0.0282173	0.0277699		-1.6		
Aroclor-1260 (4) [2C]	A	250.00	168	0.0706376	0.0474870		-32.8		
Decachlorobiphenyl	A	40.000	45.0	0.7333327	0.8260163		12.5	+/-20	
Tetrachlorometaxylene	A	40.000	39.8	1.1336710	1.1291340		-0.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1650300		2.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.7	1.0966080	1.1166800		1.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032312ECD7.D
Data file 2: /230103.b/230103.b/01032312ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 03-JAN-2023 12:09
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	156721	5.708	0.000	105548	39.8	40.7	2.2	Tetrachloro-m-xylene
13.901	-0.002	298856	14.129	-0.000	207751	45.1	41.0	9.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	277595	-38.0
Hexabromobiphenyl	798898	723608	-9.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	189039	-24.1
Hexabromobiphenyl	362541	356645	-1.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.006	23160	250.1	1	7.271	-0.001	24840	257.0
Aroclor-1016	2	7.675	-0.010	77626	259.7	2	7.870	-0.002	41206	197.7
Aroclor-1016	3	7.810	-0.008	35401	261.3	3	8.070	-0.001	22418	250.4
Aroclor-1016	4	8.422	-0.008	23184	268.4	4	8.241	-0.000	12914	274.3
Total Col1Ave (4 peaks):					259.9	Total Col2Ave (4 peaks):				244.9 RPD = 6
Corrected Ave (3 peaks):					257.0	Corrected Ave (3 peaks):				235.0 RPD = 9
CalAmt %D:					4.0	CalAmt %D:				-2.1
Aroclor-1260	1	11.055	-0.007	66667	253.1	1	11.663	-0.000	44063	234.1
Aroclor-1260	2	11.371	-0.006	69065	253.5	2	11.925	-0.000	70759	149.8
Aroclor-1260	3	11.743	-0.009	182748	255.3	3	12.443	-0.001	30950	246.0
Aroclor-1260	4	12.148	-0.010	90618	248.6	4	12.508	-0.001	52925	168.1
Aroclor-1260	5	12.254	-0.008	39883	267.3	NS	---			----
Total Col1Ave (5 peaks):					255.6	Total Col2Ave (4 peaks):				199.5 RPD = 25
Corrected Ave (4 peaks):					252.6	Corrected Ave (3 peaks):				184.0 RPD = 31
CalAmt %D:					2.2	CalAmt %D:				-20.2

Total PCB Area Col1 (5.932 - 13.803) = 1761639 Col1 Total PCB = 0.7 ppm*

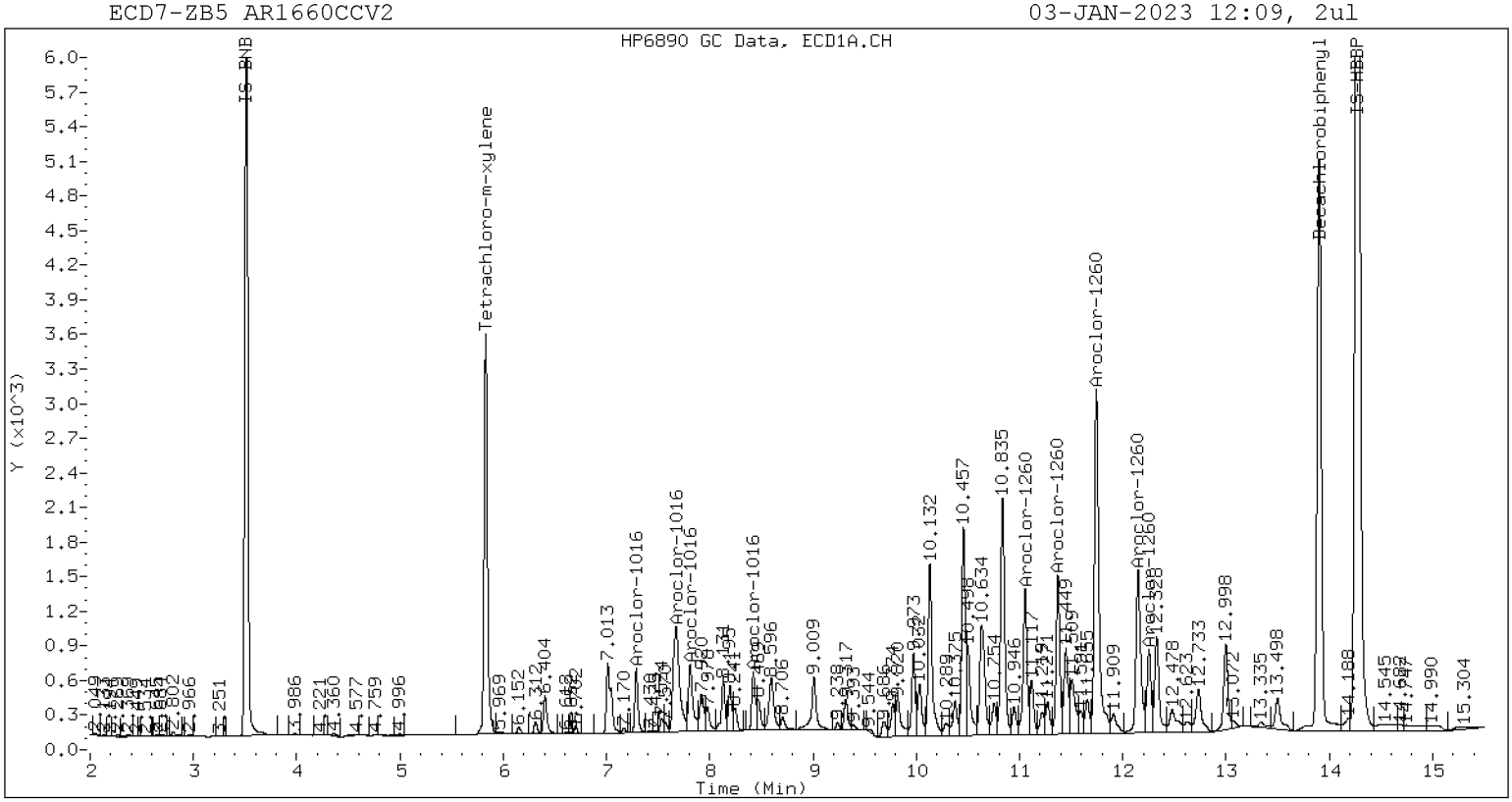
Total PCB Area Col2 (5.808 - 14.029) = 919118 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

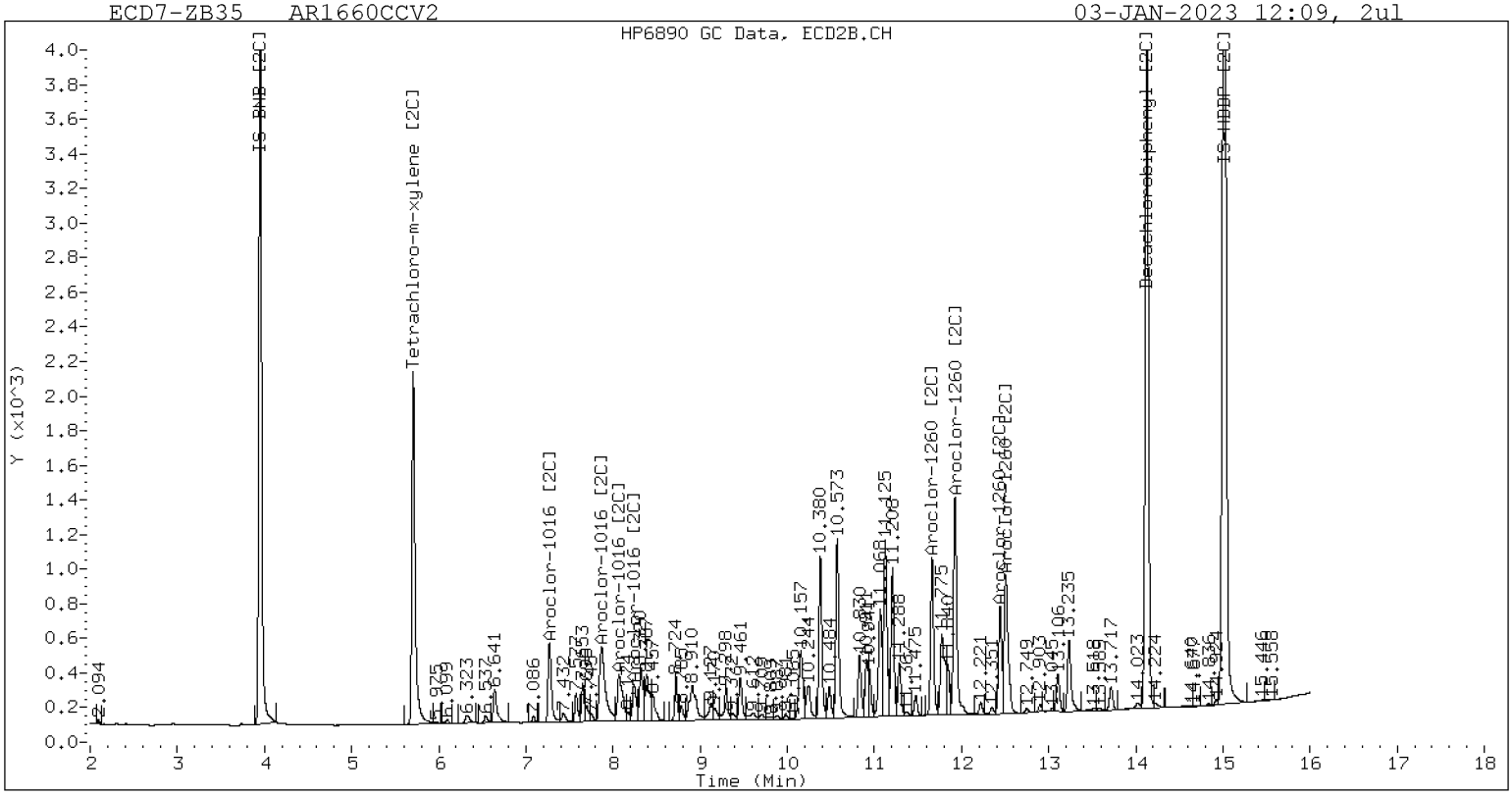
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 03-JAN-2023 12:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 03-JAN-2023 12:09, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032330ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV3	Injection Time:	18:28
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	285	0.0396000	0.0439701		14.1	+/-20
Aroclor-1242 (1)	A	250.00	281		0.0254812			
Aroclor-1242 (2)	A	250.00	280		0.0806426			
Aroclor-1242 (3)	A	250.00	337		0.0279617			
Aroclor-1242 (4)	A	250.00	243		0.0417947			
Aroclor 1242 [2C]	A	250.00	268	0.0391981	0.0387542		7.3	+/-20
Aroclor-1242 (1) [2C]	A	250.00	264		0.0358019			
Aroclor-1242 (2) [2C]	A	250.00	197		0.0565731			
Aroclor-1242 (3) [2C]	A	250.00	299		0.0277340			
Aroclor-1242 (4) [2C]	A	250.00	313		0.0349078			
Decachlorobiphenyl	A	40.000	44.1	0.7333327	0.8080584		10.3	+/-20
Tetrachlorometaxylene	A	40.000	38.8	1.1336710	1.1010770		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.8	1.1358180	1.2157420		7.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.9	1.0966080	1.0656020		-2.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032330ECD7.D
Data file 2: /230103.b/230103.b/01032330ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 03-JAN-2023 18:28
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	202063	5.707	-0.000	134066	38.8	38.9	0.0	Tetrachloro-m-xylene
13.902	-0.001	347335	14.128	-0.001	252492	44.1	42.8	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	367028	-18.0
Hexabromobiphenyl	798898	859678	7.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251625	1.0
Hexabromobiphenyl	362541	415371	14.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1242	1	7.289	0.000	29226	280.9	1	7.271	0.000	28152	264.4
Aroclor-1242	2	7.676	0.000	92494	280.0	2	7.872	0.000	44485	196.8
Aroclor-1242	3	8.422	0.000	32071	337.5	3	9.169	0.000	21808	299.0
Aroclor-1242	4	9.021	0.000	47937	242.9	4	9.589	0.000	27449	313.1
Total Col1Ave (4 peaks):					285.3	Total Col2Ave (4 peaks):				268.3 RPD = 6
Corrected Ave (3 peaks):					268.0	Corrected Ave (3 peaks):				253.4 RPD = 6
CalAmt %D:					14.1	CalAmt %D:				7.3

Total PCB Area Col1 (5.932 - 13.803) = 937827 Col1 Total PCB = 0.3 ppm*

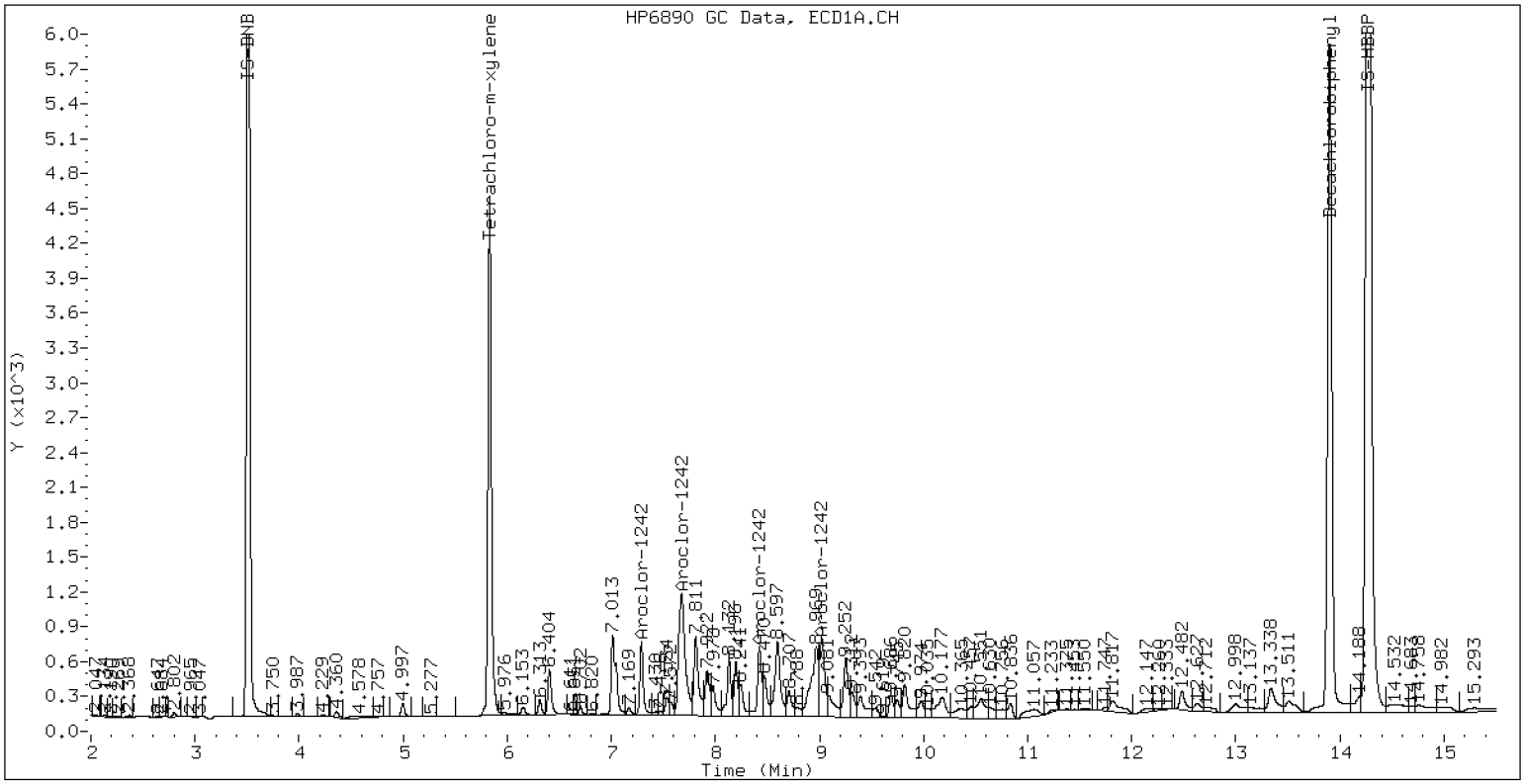
Total PCB Area Col2 (5.808 - 14.029) = 444780 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

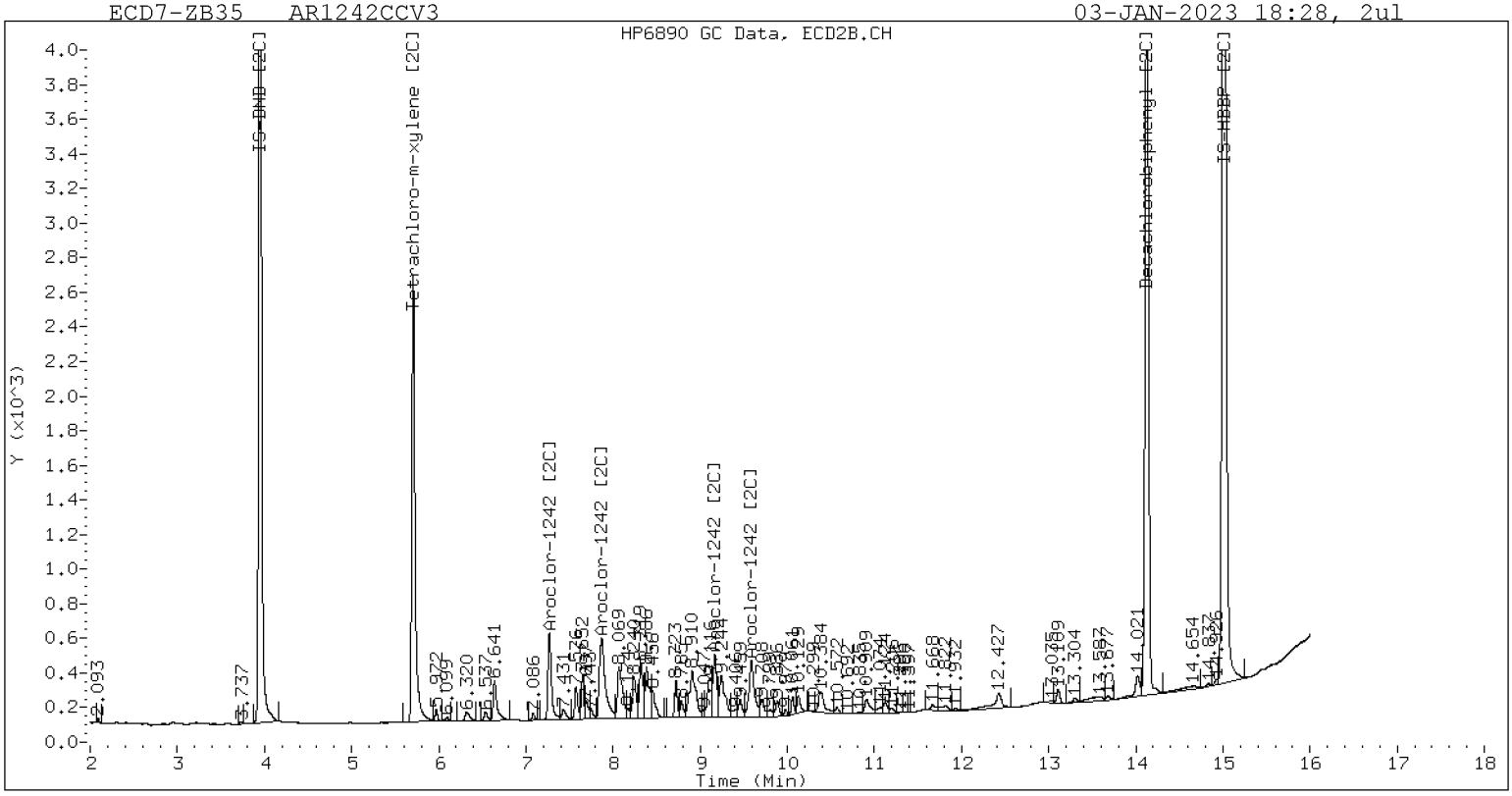
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 03-JAN-2023 18:28, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 03-JAN-2023 18:28, 2ul

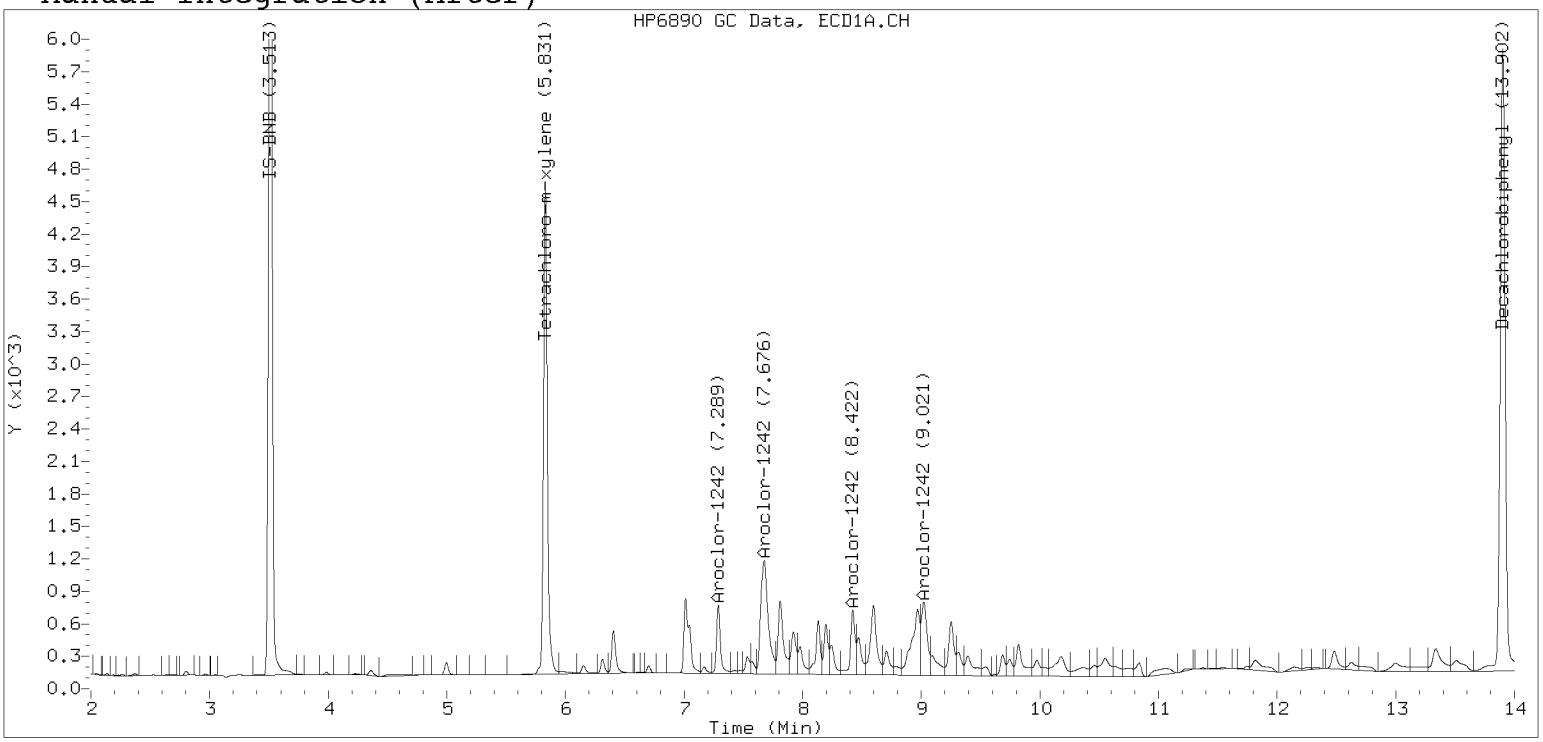


ZB-35 Manual Integration: NO

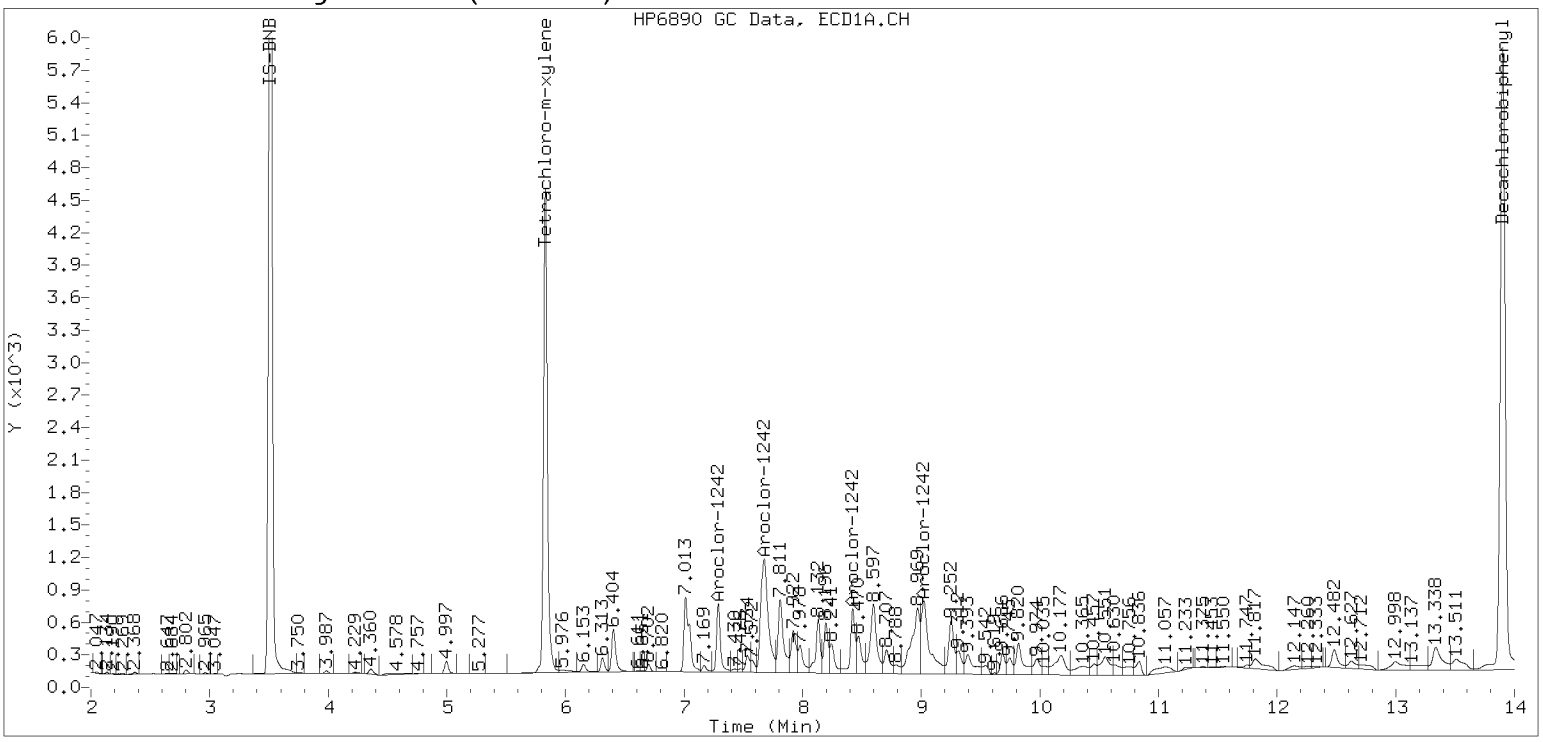
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032330ECD7.D Injection Date: 03-JAN-2023 18:28

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032331ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV4	Injection Time:	18:49
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	294	0.0441939	0.0505094		17.7	+/-20
Aroclor-1016 (1)	A	250.00	278	0.0266860	0.0296476		11.2	
Aroclor-1016 (2)	A	250.00	270	0.0861572	0.0930805		8.0	
Aroclor-1016 (3)	A	250.00	294	0.0390425	0.0459334		17.6	
Aroclor-1016 (4)	A	250.00	335	0.0248899	0.0333762		34.0	
Aroclor 1016 [2C]	A	250.00	236	0.0467310	0.0412979		-5.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407613		-0.4	
Aroclor-1016 (2) [2C]	A	250.00	189	0.0882154	0.0667378		-24.4	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365952		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0210972		6.0	
Aroclor 1260	A	250.00	277	0.0390342	0.0430042		10.9	+/-20
Aroclor-1260 (1)	A	250.00	271	0.0291201	0.0315542		8.4	
Aroclor-1260 (2)	A	250.00	273	0.0301181	0.0328508		9.2	
Aroclor-1260 (3)	A	250.00	277	0.0791351	0.0876855		10.8	
Aroclor-1260 (4)	A	250.00	270	0.0403003	0.0434576		8.0	
Aroclor-1260 (5)	A	250.00	295	0.0164974	0.0194729		18.0	
Aroclor 1260 [2C]	A	250.00	211	0.0617619	0.0474391		-15.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	240	0.0422283	0.0405877		-4.0	
Aroclor-1260 (2) [2C]	A	250.00	161	0.1059643	0.0683669		-35.6	
Aroclor-1260 (3) [2C]	A	250.00	261	0.0282173	0.0294476		4.4	
Aroclor-1260 (4) [2C]	A	250.00	182	0.0706376	0.0513543		-27.2	
Decachlorobiphenyl	A	40.000	47.7	0.7333327	0.8744493		19.3	+/-20
Tetrachlorometaxylene	A	40.000	40.0	1.1336710	1.1339090		0.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.9	1.1358180	1.2194670		7.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.9	1.0966080	1.1215770		2.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032331ECD7.D
Data file 2: /230103.b/230103.b/01032331ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 03-JAN-2023 18:49
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	162323	5.708	0.000	108936	40.0	40.9	2.2	Tetrachloro-m-xylene
13.903	0.000	296423	14.128	-0.002	210980	47.7	42.9	10.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	286307	-36.0
Hexabromobiphenyl	798898	677965	-15.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	194255	-22.0
Hexabromobiphenyl	362541	346020	-4.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.006	26526	277.7	1	7.270	-0.001	24744	249.1
Aroclor-1016	2	7.679	-0.006	83280	270.1	2	7.871	-0.001	40513	189.1
Aroclor-1016	3	7.812	-0.006	41097	294.1	3	8.069	-0.001	22215	241.5
Aroclor-1016	4	8.423	-0.006	29862	335.2	4	8.240	-0.001	12807	264.8
Total Col1Ave (4 peaks):					294.3	Total Col2Ave (4 peaks):				236.1 RPD = 22
Corrected Ave (3 peaks):					280.7	Corrected Ave (3 peaks):				226.6 RPD = 21
CalAmt %D:					17.7	CalAmt %D:				-5.5
Aroclor-1260	1	11.056	-0.007	66852	270.9	1	11.662	-0.000	43888	240.3
Aroclor-1260	2	11.373	-0.004	69599	272.7	2	11.925	-0.000	73926	161.3
Aroclor-1260	3	11.747	-0.005	185774	277.0	3	12.444	-0.000	31842	260.9
Aroclor-1260	4	12.151	-0.007	92071	269.6	4	12.508	-0.001	55530	181.8
Aroclor-1260	5	12.256	-0.006	41256	295.1	NS	---			----
Total Col1Ave (5 peaks):					277.1	Total Col2Ave (4 peaks):				211.1 RPD = 27
Corrected Ave (4 peaks):					272.5	Corrected Ave (3 peaks):				194.4 RPD = 33
CalAmt %D:					10.8	CalAmt %D:				-15.6

Total PCB Area Col1 (5.932 - 13.803) = 1931708 Col1 Total PCB = 0.7 ppm*

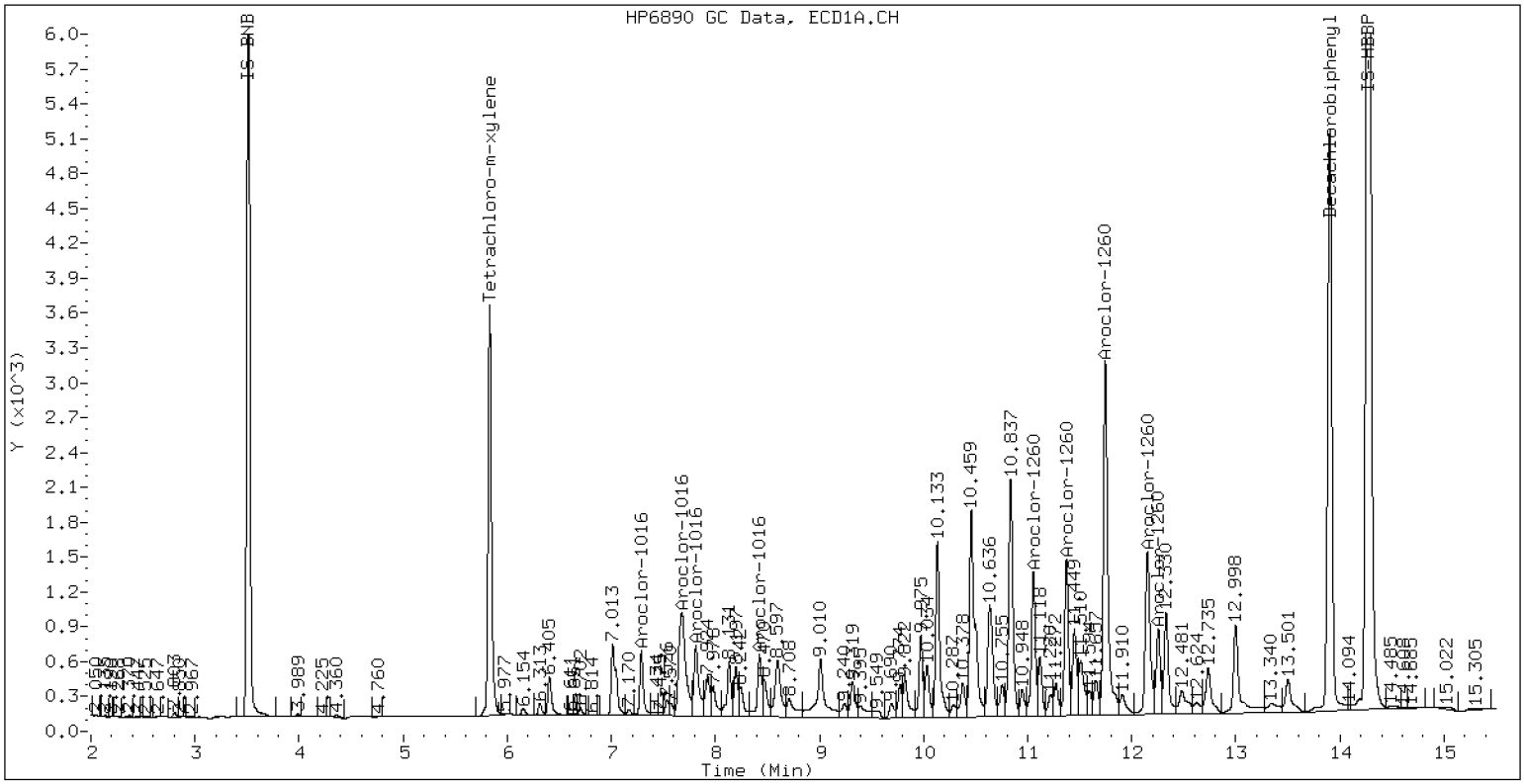
Total PCB Area Col2 (5.808 - 14.029) = 918749 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

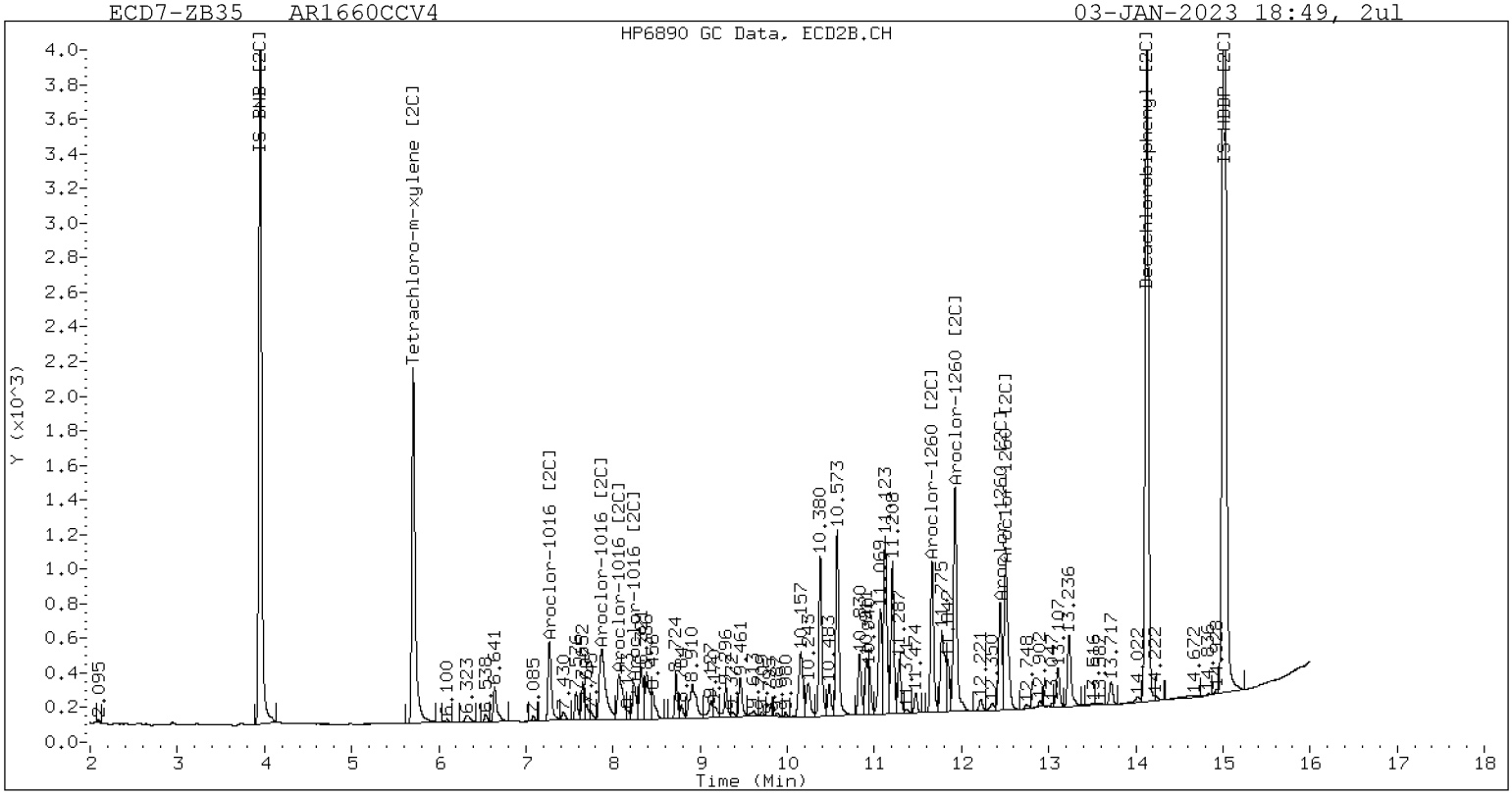
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 03-JAN-2023 18:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 03-JAN-2023 18:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032347ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/04/23
Lab Sample ID:	SLA0079-CCV5	Injection Time:	00:26
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	285	0.0576965	0.0661707		14.0	+/-20
Aroclor-1254 (1)	A	250.00	256		0.0721448			
Aroclor-1254 (2)	A	250.00	302		0.0330578			
Aroclor-1254 (3)	A	250.00	235		0.0417671			
Aroclor-1254 (4)	A	250.00	308		0.1068819			
Aroclor-1254 (5)	A	250.00	324		0.0770019			
Aroclor 1254 [2C]	A	250.00	240	0.0638047	0.0627563		-4.1	+/-20
Aroclor-1254 (1) [2C]	A	250.00	242		0.0500428			
Aroclor-1254 (2) [2C]	A	250.00	151		0.0251111			
Aroclor-1254 (3) [2C]	A	250.00	220		0.0783272			
Aroclor-1254 (4) [2C]	A	250.00	292		0.1078908			
Aroclor-1254 (5) [2C]	A	250.00	294		0.0524096			
Decachlorobiphenyl	A	40.000	44.2	0.7333327	0.8107879		10.5	+/-20
Tetrachlorometaxylene	A	40.000	38.0	1.1336710	1.0777150		-5.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.8	1.1358180	1.1884280		4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.7	1.0966080	1.0330770		-5.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032347ECD7.D
Data file 2: /230103.b/230103.b/01032347ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 04-JAN-2023 00:26
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	198167	5.708	0.000	131787	38.0	37.7	0.9	Tetrachloro-m-xylene
13.903	0.000	325582	14.129	-0.000	250744	44.2	41.9	5.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	367754	-17.8
Hexabromobiphenyl	798898	803125	0.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255135	2.4
Hexabromobiphenyl	362541	421976	16.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.314	0.000	82911	256.1	1	9.461	0.000	39899	242.6
Aroclor-1254	2	9.393	0.000	37991	301.7	2	9.978	0.000	20021	151.4
Aroclor-1254	3	9.687	0.000	48000	234.7	3	10.129	0.000	62450	219.7
Aroclor-1254	4	9.821	0.000	122832	308.1	4	10.378	0.000	86021	292.2
Aroclor-1254	5	10.176	0.000	88493	323.8	5	10.576	0.000	41786	294.3

Total Col1Ave (5 peaks): 284.9 Total Col2Ave (5 peaks): 240.0 RPD = 17

Corrected Ave (4 peaks): 275.1 Corrected Ave (4 peaks): 226.5 RPD = 19

CalAmt %D: 14.0 CalAmt %D: -4.0

Total PCB Area Col1 (5.932 - 13.803) = 1364494 Col1 Total PCB = 0.4 ppm*

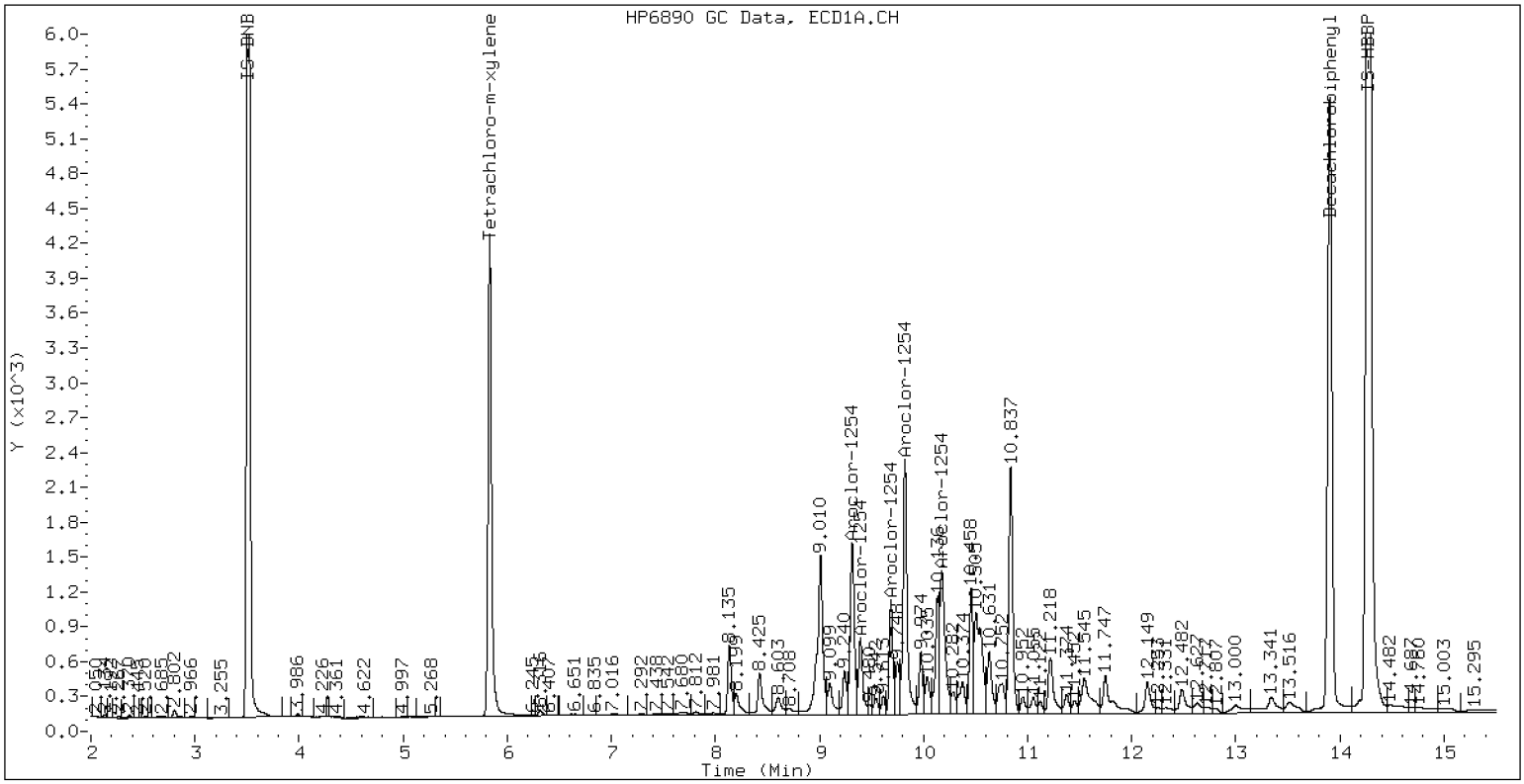
Total PCB Area Col2 (5.808 - 14.029) = 735302 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

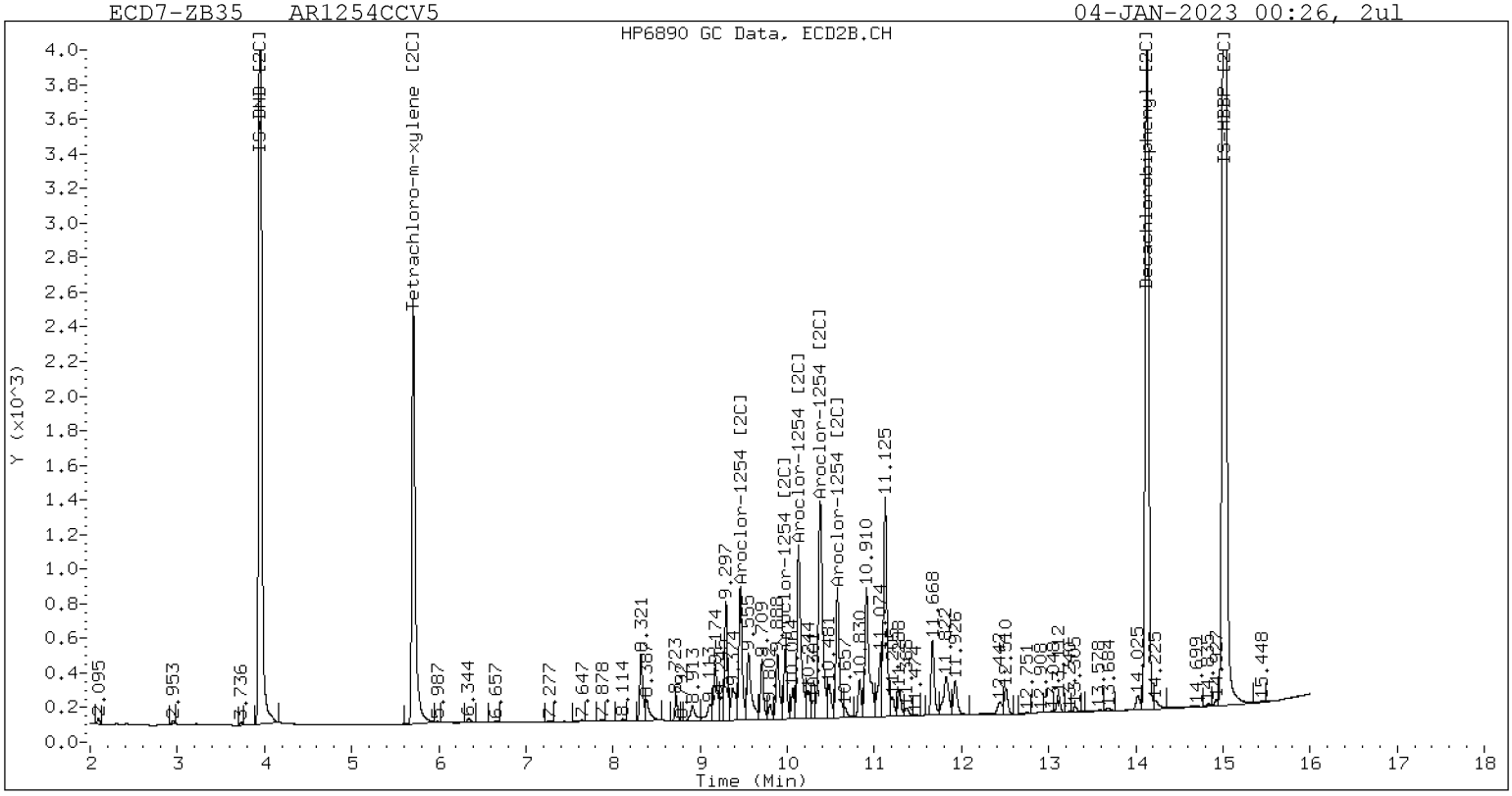
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 04-JAN-2023 00:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254CCV5 04-JAN-2023 00:26, 2ul

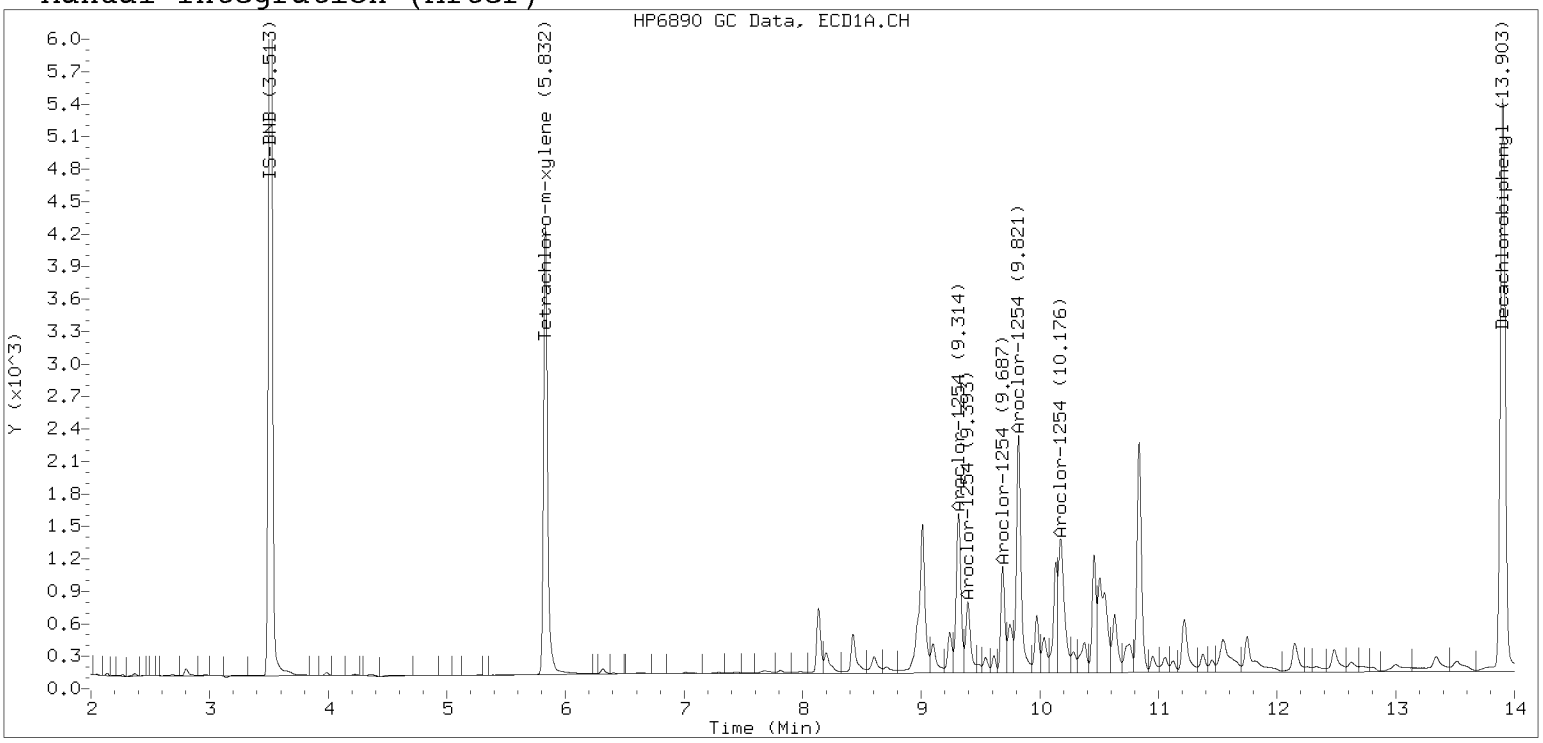


ZB-35 Manual Integration: NO

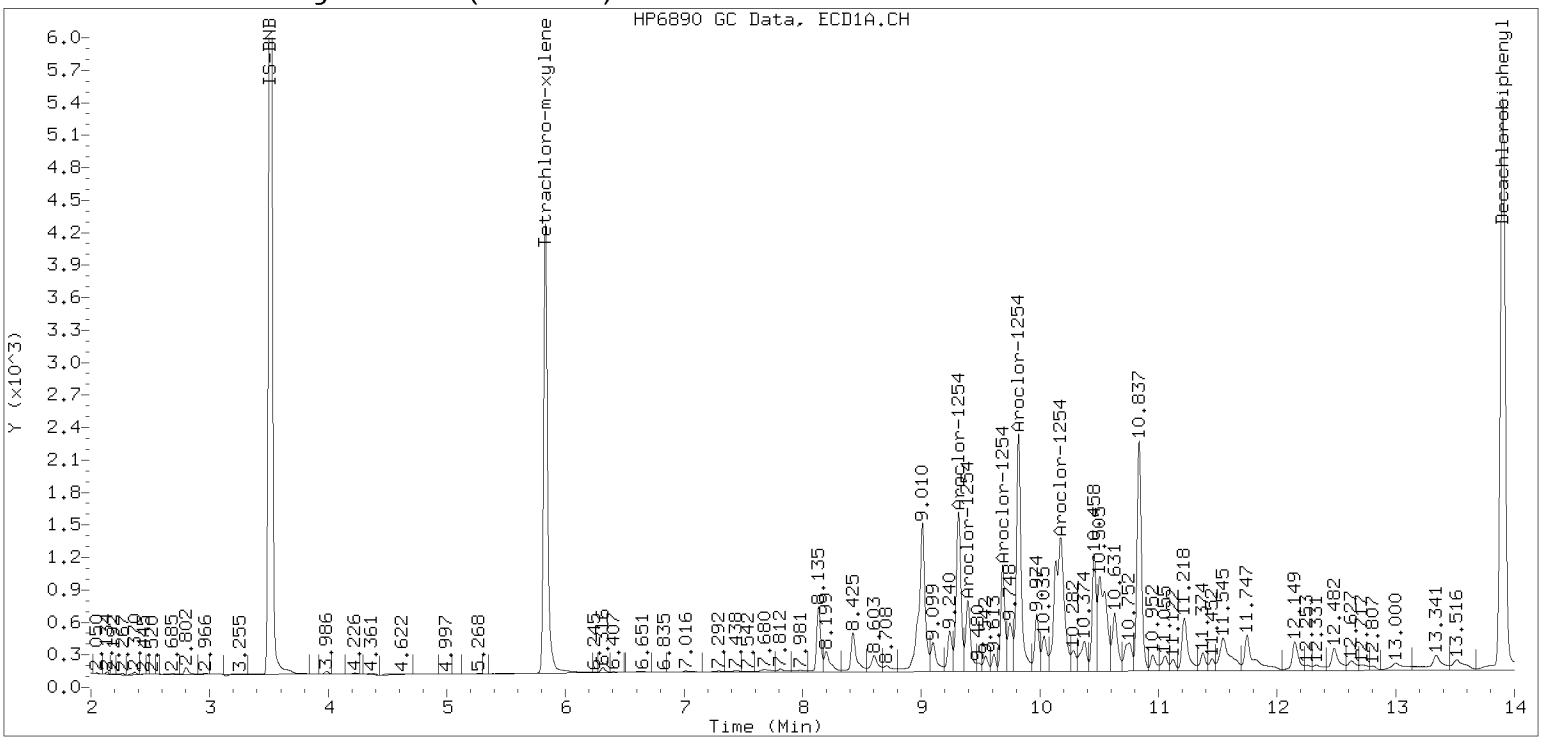
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032347ECD7.D Injection Date: 04-JAN-2023 00:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032348ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/04/23
Lab Sample ID:	SLA0079-CCV6	Injection Time:	00:47
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	298	0.0441939	0.0511276		19.2	+/-20
Aroclor-1016 (1)	A	250.00	279	0.0266860	0.0297468		11.6	
Aroclor-1016 (2)	A	250.00	275	0.0861572	0.0947132		10.0	
Aroclor-1016 (3)	A	250.00	293	0.0390425	0.0457209		17.2	
Aroclor-1016 (4)	A	250.00	345	0.0248899	0.0343296		38.0	
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0419381		-4.2	+/-20
Aroclor-1016 (1) [2C]	A	250.00	251	0.0409030	0.0410991		0.4	
Aroclor-1016 (2) [2C]	A	250.00	193	0.0882154	0.0681188		-22.8	
Aroclor-1016 (3) [2C]	A	250.00	244	0.0378846	0.0370051		-2.4	
Aroclor-1016 (4) [2C]	A	250.00	270	0.0199212	0.0215293		8.0	
Aroclor 1260	A	250.00	280	0.0390342	0.0434253		11.9	+/-20
Aroclor-1260 (1)	A	250.00	274	0.0291201	0.0318922		9.6	
Aroclor-1260 (2)	A	250.00	274	0.0301181	0.0330626		9.6	
Aroclor-1260 (3)	A	250.00	280	0.0791351	0.0886113		12.0	
Aroclor-1260 (4)	A	250.00	272	0.0403003	0.0438071		8.8	
Aroclor-1260 (5)	A	250.00	299	0.0164974	0.0197532		19.6	
Aroclor 1260 [2C]	A	250.00	213	0.0617619	0.0481785		-14.7	+/-20
Aroclor-1260 (1) [2C]	A	250.00	245	0.0422283	0.0413648		-2.0	
Aroclor-1260 (2) [2C]	A	250.00	166	0.1059643	0.0702418		-33.6	
Aroclor-1260 (3) [2C]	A	250.00	258	0.0282173	0.0291401		3.2	
Aroclor-1260 (4) [2C]	A	250.00	184	0.0706376	0.0519673		-26.4	
Decachlorobiphenyl	A	40.000	45.4	0.7333327	0.8321665		13.5	+/-20
Tetrachlorometaxylene	A	40.000	40.0	1.1336710	1.1337850		0.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.6	1.1358180	1.2105940		6.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.1	1.0966080	1.0990500		0.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032348ECD7.D
Data file 2: /230103.b/230103.b/01032348ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 04-JAN-2023 00:47
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	164472	5.708	0.000	110560	40.0	40.1	0.2	Tetrachloro-m-xylene
13.903	-0.000	274399	14.129	0.000	209069	45.4	42.6	6.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	290129	-35.2
Hexabromobiphenyl	798898	659481	-17.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	201192	-19.2
Hexabromobiphenyl	362541	345399	-4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.006	26970	278.7	1	7.272	0.000	25840	251.2
Aroclor-1016	2	7.676	-0.009	85872	274.8	2	7.872	0.000	42828	193.0
Aroclor-1016	3	7.811	-0.007	41453	292.8	3	8.071	0.000	23266	244.2
Aroclor-1016	4	8.423	-0.007	31125	344.8	4	8.241	0.000	13536	270.2
Total Col1Ave (4 peaks):					297.8	Total Col2Ave (4 peaks):				239.7 RPD = 22
Corrected Ave (3 peaks):					282.1	Corrected Ave (3 peaks):				229.5 RPD = 21
CalAmt %D:					19.1	CalAmt %D:				-4.1
Aroclor-1260	1	11.055	-0.007	65726	273.8	1	11.663	0.000	44648	244.9
Aroclor-1260	2	11.372	-0.005	68138	274.4	2	11.926	0.000	75817	165.7
Aroclor-1260	3	11.746	-0.006	182617	279.9	3	12.444	0.000	31453	258.2
Aroclor-1260	4	12.150	-0.009	90281	271.8	4	12.509	0.000	56092	183.9
Aroclor-1260	5	12.256	-0.006	40709	299.3	NS	---			----
Total Col1Ave (5 peaks):					279.9	Total Col2Ave (4 peaks):				213.2 RPD = 27
Corrected Ave (4 peaks):					275.0	Corrected Ave (3 peaks):				198.2 RPD = 32
CalAmt %D:					11.9	CalAmt %D:				-14.7

Total PCB Area Col1 (5.932 - 13.803) = 1893243 Col1 Total PCB = 0.7 ppm*

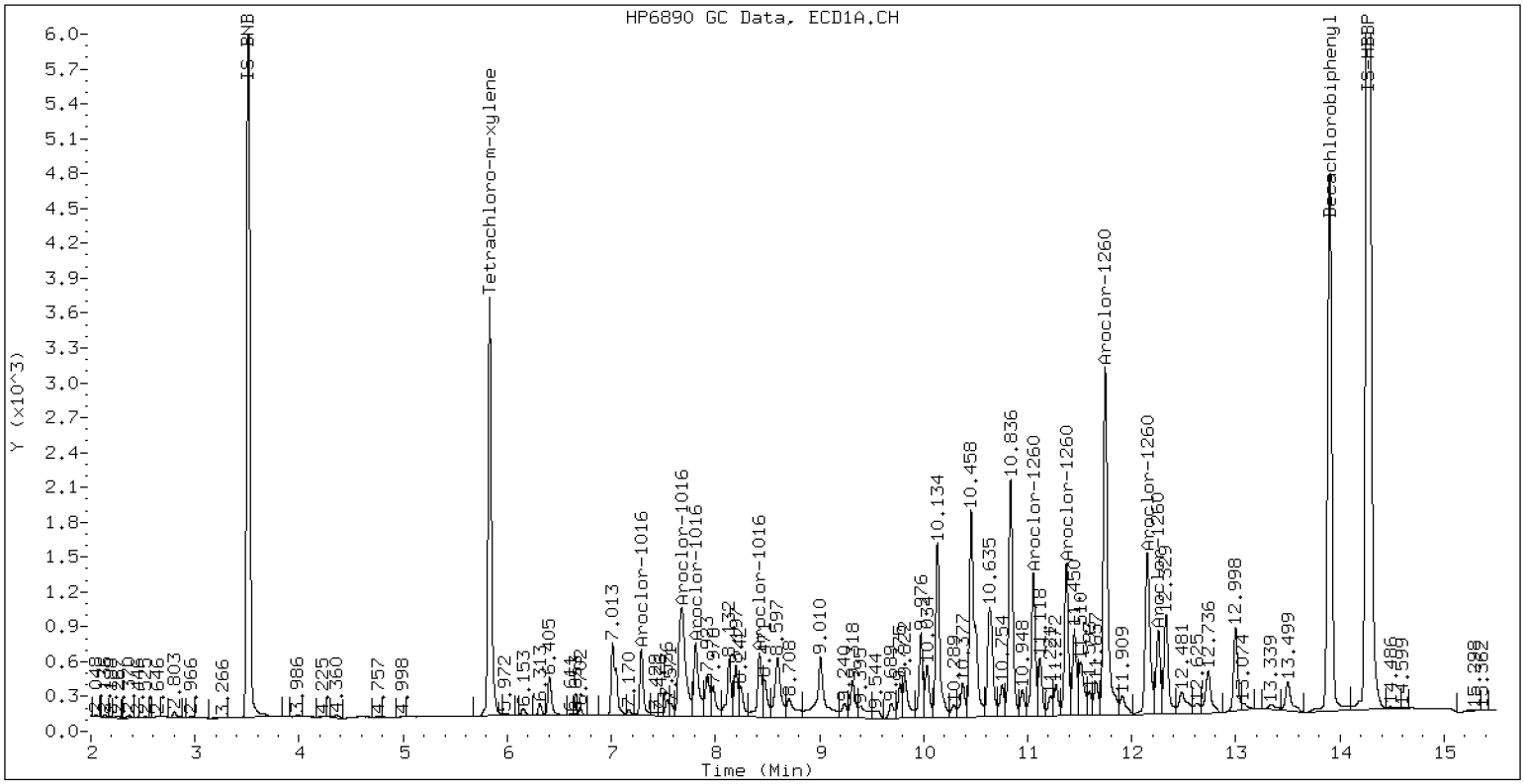
Total PCB Area Col2 (5.808 - 14.029) = 955529 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

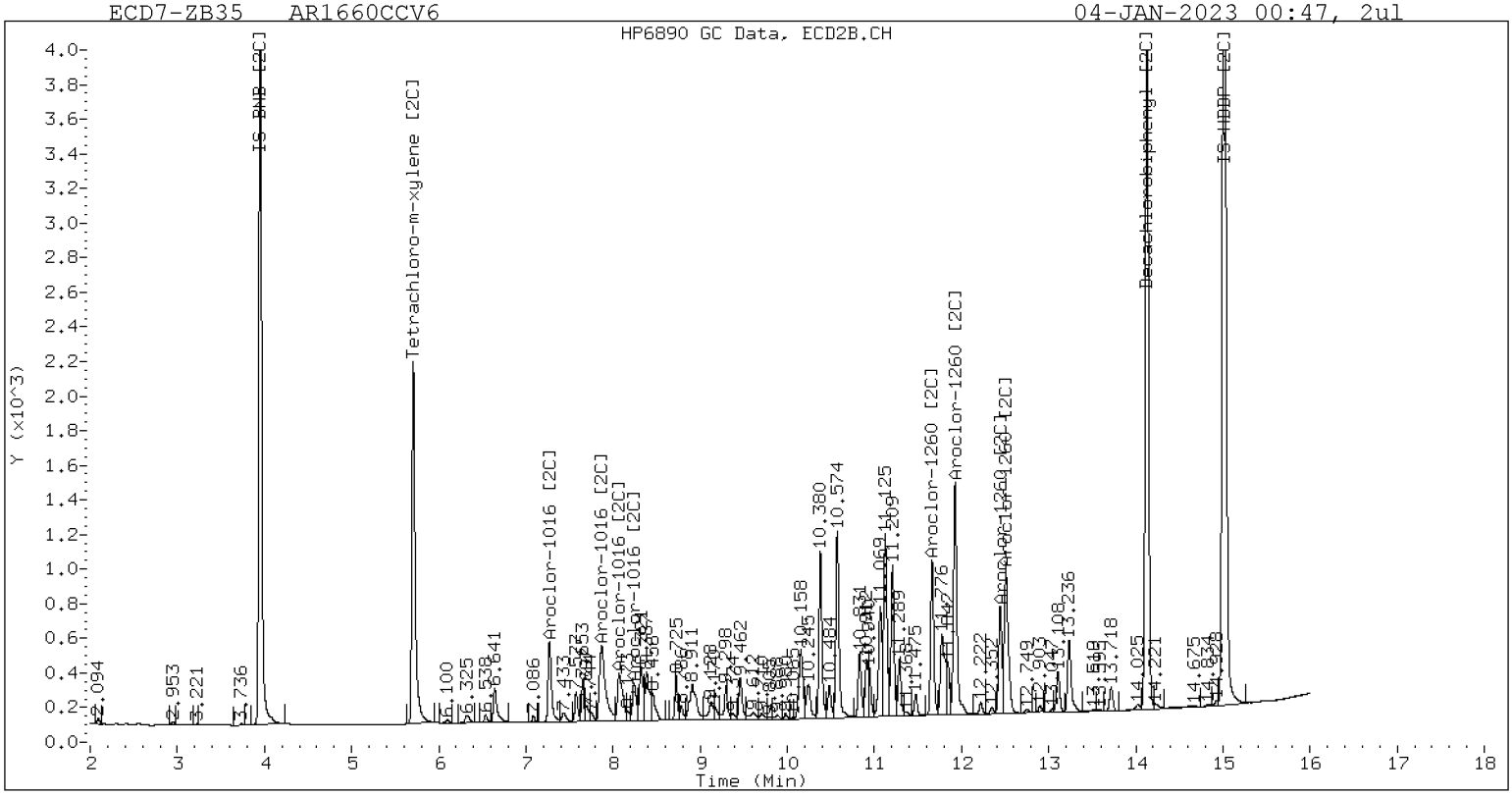
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 04-JAN-2023 00:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 04-JAN-2023 00:47, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042320ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV1	Injection Time:	16:03
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	274	0.0490062	0.0553431		9.4	+/-20
Aroclor-1248 (1)	A	250.00	302		0.0415649			
Aroclor-1248 (2)	A	250.00	315		0.0553657			
Aroclor-1248 (3)	A	250.00	313		0.0990130			
Aroclor-1248 (4)	A	250.00	164		0.0254290			
Aroclor 1248 [2C]	A	250.00	254	0.0394876	0.0405811		1.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	264		0.0345005			
Aroclor-1248 (2) [2C]	A	250.00	189		0.0260032			
Aroclor-1248 (3) [2C]	A	250.00	286		0.0478260			
Aroclor-1248 (4) [2C]	A	250.00	275		0.0539948			
Decachlorobiphenyl	A	40.000	41.4	0.7333327	0.7596855		3.5	+/-20
Tetrachlorometaxylene	A	40.000	36.3	1.1336710	1.0293700		-9.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1596760		2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.2	1.0966080	1.0196630		-7.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042320ECD7.D
Data file 2: /230104.b/230104.b/01042320ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 04-JAN-2023 16:03
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	184512	5.709	0.002	125701	36.3	37.2	2.4	Tetrachloro-m-xylene
13.903	0.002	328281	14.129	0.001	253162	41.4	40.8	1.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	358495	-19.9
Hexabromobiphenyl	798898	864255	8.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	246554	-1.0
Hexabromobiphenyl	362541	436608	20.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.424	-0.004	46565	302.1	1	8.321	0.001	26582	263.9
Aroclor-1248	2	8.600	-0.004	62026	315.2	2	8.726	0.001	20035	189.1
Aroclor-1248	3	9.018	-0.004	110924	313.3	3	9.173	0.002	36849	286.0
Aroclor-1248	4	9.310	-0.002	28488	164.2	4	9.593	0.001	41602	275.0
Total Col1Ave (4 peaks):					273.7	Total Col2Ave (4 peaks):				253.5 RPD = 8
Corrected Ave (3 peaks):					259.9	Corrected Ave (3 peaks):				242.7 RPD = 7
CalAmt %D:					9.5	CalAmt %D:				1.4

Total PCB Area Col1 (5.930 - 13.802) = 1077438 Col1 Total PCB = 0.3 ppm*

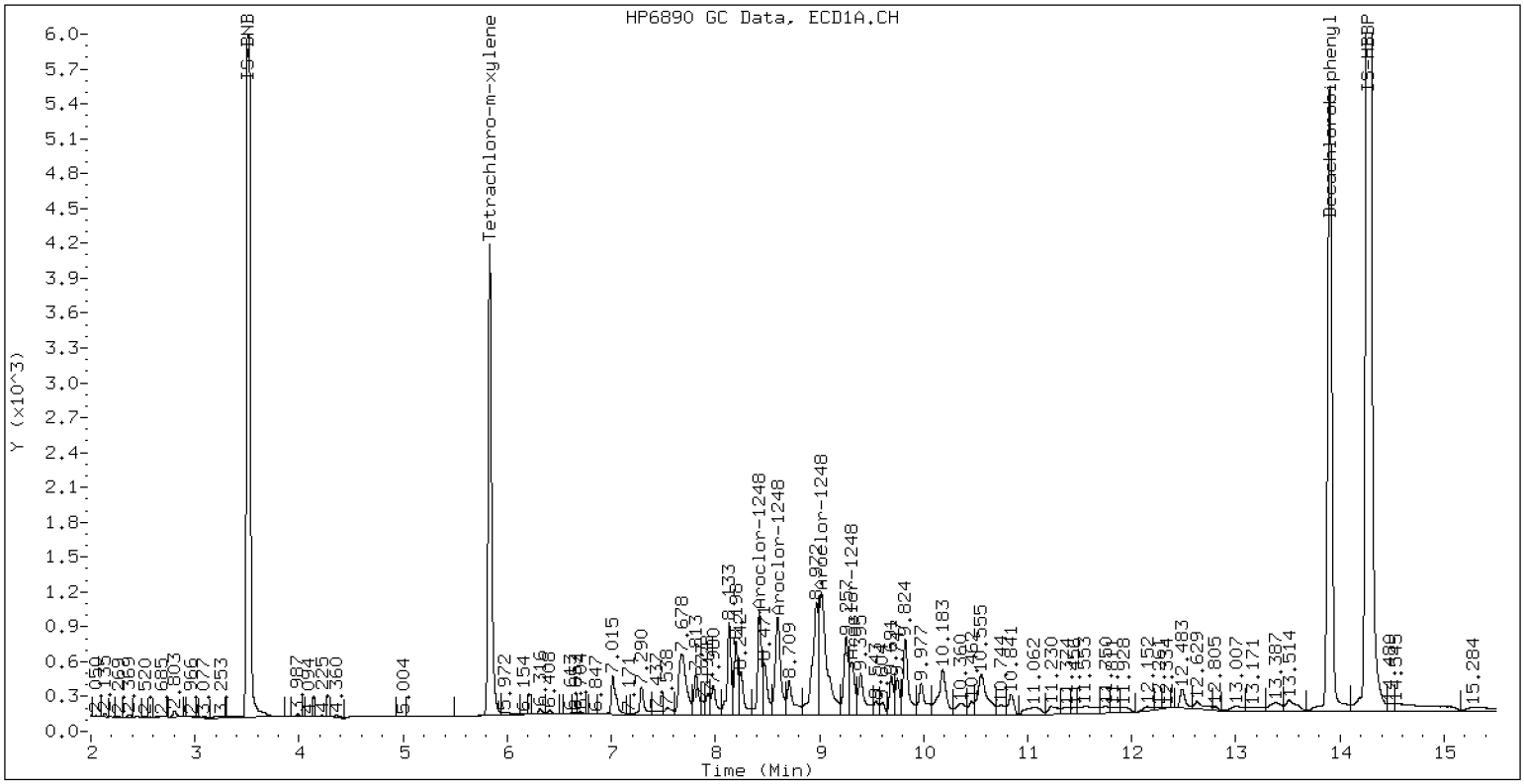
Total PCB Area Col2 (5.807 - 14.028) = 520222 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

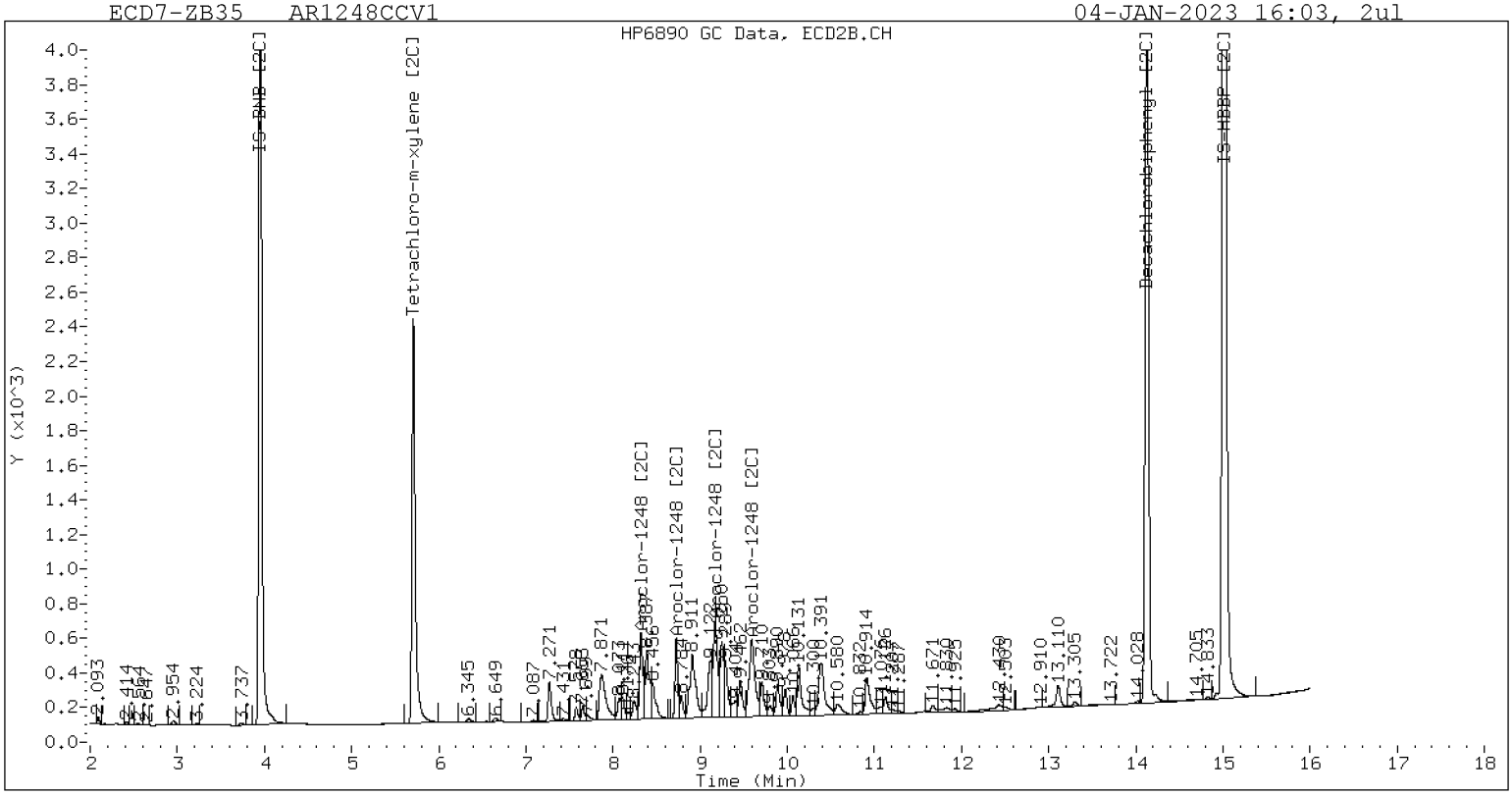
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 04-JAN-2023 16:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 04-JAN-2023 16:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042321ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV2	Injection Time:	16:25
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	303	0.0441939	0.0515062		21.2	+/-20 *
Aroclor-1016 (1)	A	250.00	285	0.0266860	0.0304617		14.0	
Aroclor-1016 (2)	A	250.00	271	0.0861572	0.0932954		8.4	
Aroclor-1016 (3)	A	250.00	300	0.0390425	0.0467885		20.0	
Aroclor-1016 (4)	A	250.00	356	0.0248899	0.0354791		42.4	
Aroclor 1016 [2C]	A	250.00	236	0.0467310	0.0413050		-5.8	+/-20
Aroclor-1016 (1) [2C]	A	250.00	244	0.0409030	0.0399802		-2.4	
Aroclor-1016 (2) [2C]	A	250.00	191	0.0882154	0.0674922		-23.6	
Aroclor-1016 (3) [2C]	A	250.00	242	0.0378846	0.0366139		-3.2	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0211338		6.0	
Aroclor 1260	A	250.00	262	0.0390342	0.0407576		5.0	+/-20
Aroclor-1260 (1)	A	250.00	261	0.0291201	0.0304262		4.4	
Aroclor-1260 (2)	A	250.00	261	0.0301181	0.0314406		4.4	
Aroclor-1260 (3)	A	250.00	262	0.0791351	0.0829739		4.8	
Aroclor-1260 (4)	A	250.00	252	0.0403003	0.0407005		0.8	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0182469		10.4	
Aroclor 1260 [2C]	A	250.00	204	0.0617619	0.0461385		-18.3	+/-20
Aroclor-1260 (1) [2C]	A	250.00	230	0.0422283	0.0388640		-8.0	
Aroclor-1260 (2) [2C]	A	250.00	158	0.1059643	0.0669712		-36.8	
Aroclor-1260 (3) [2C]	A	250.00	250	0.0282173	0.0282002		0.0	
Aroclor-1260 (4) [2C]	A	250.00	179	0.0706376	0.0505187		-28.4	
Decachlorobiphenyl	A	40.000	43.7	0.7333327	0.8010417		9.3	+/-20
Tetrachlorometaxylene	A	40.000	38.8	1.1336710	1.1013290		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1505600		1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.0	1.0966080	1.0962090		0.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042321ECD7.D
Data file 2: /230104.b/230104.b/01042321ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 04-JAN-2023 16:25
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	142692	5.709	0.002	96080	38.9	40.0	2.9	Tetrachloro-m-xylene
13.903	0.001	259769	14.128	0.001	187822	43.7	40.5	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	259127	-42.1
Hexabromobiphenyl	798898	648578	-18.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	175295	-29.6
Hexabromobiphenyl	362541	326488	-9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	24667	285.4	1	7.272	0.003	21901	244.4
Aroclor-1016	2	7.680	0.003	75548	270.7	2	7.872	0.001	36972	191.3
Aroclor-1016	3	7.813	0.000	37888	299.6	3	8.072	0.003	20057	241.6
Aroclor-1016	4	8.423	0.002	28730	356.4	4	8.242	0.002	11577	265.2
Total Col1Ave (4 peaks):					303.0	Total Col2Ave (4 peaks):				235.6 RPD = 25
Corrected Ave (3 peaks):					285.2	Corrected Ave (3 peaks):				225.7 RPD = 23
CalAmt %D:					21.2	CalAmt %D:				-5.8
Aroclor-1260	1	11.056	0.000	61668	261.2	1	11.662	0.002	39652	230.1
Aroclor-1260	2	11.373	0.001	63724	261.0	2	11.925	0.001	68329	158.0
Aroclor-1260	3	11.746	0.000	168172	262.1	3	12.444	0.001	28772	249.8
Aroclor-1260	4	12.151	0.001	82492	252.5	4	12.508	0.002	51543	178.8
Aroclor-1260	5	12.256	0.002	36983	276.5	NS	---			----
Total Col1Ave (5 peaks):					262.7	Total Col2Ave (4 peaks):				204.2 RPD = 25
Corrected Ave (4 peaks):					259.2	Corrected Ave (3 peaks):				189.0 RPD = 31
CalAmt %D:					5.1	CalAmt %D:				-18.3

Total PCB Area Col1 (5.930 - 13.802) = 1791246 Col1 Total PCB = 0.7 ppm*

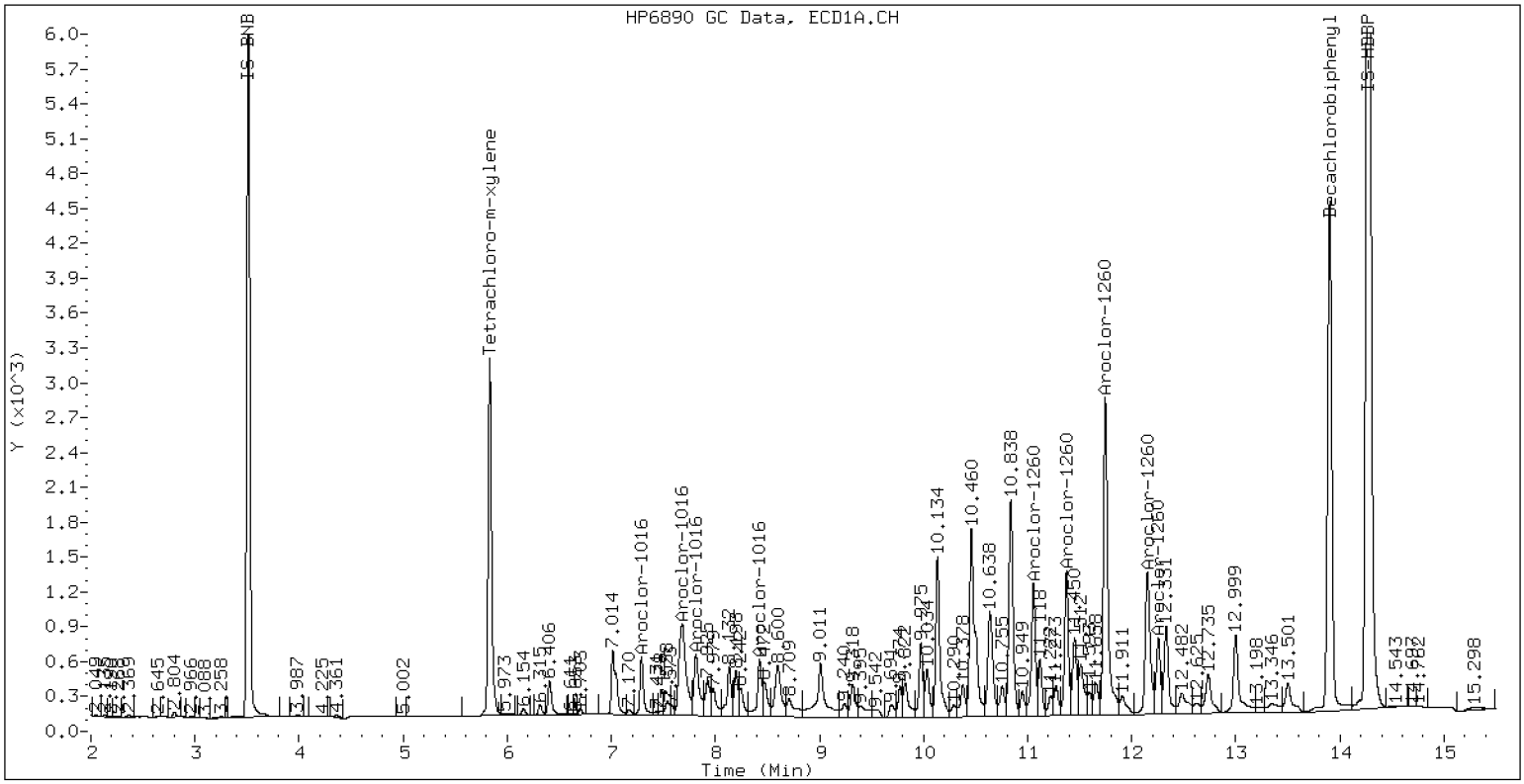
Total PCB Area Col2 (5.807 - 14.028) = 839931 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

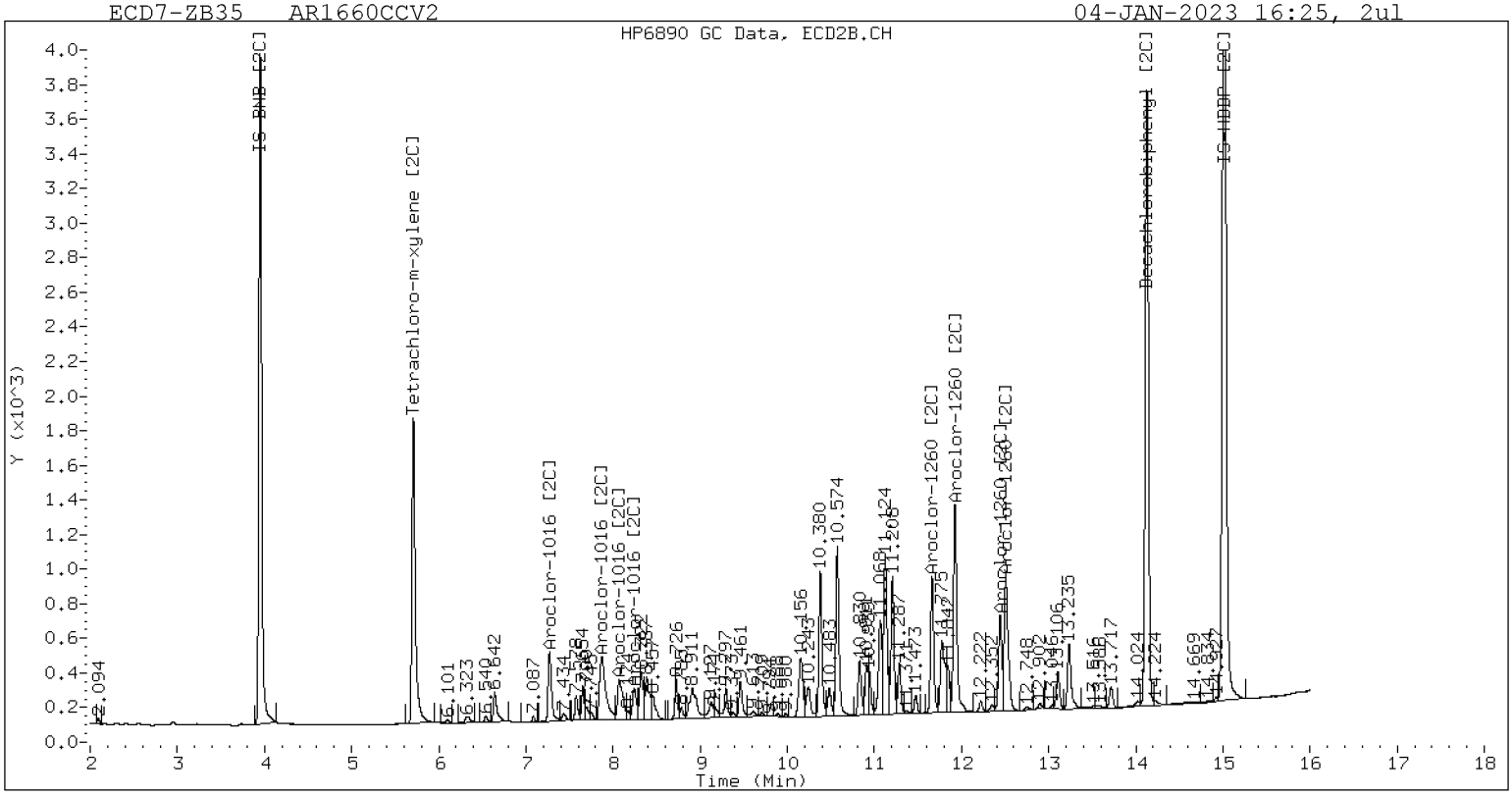
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 04-JAN-2023 16:25, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 04-JAN-2023 16:25, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042338ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV3	Injection Time:	22:23
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	301	0.0396000	0.0455620		20.3	+/-20
Aroclor-1242 (1)	A	250.00	323		0.0292788			
Aroclor-1242 (2)	A	250.00	285		0.0821395			
Aroclor-1242 (3)	A	250.00	354		0.0293497			
Aroclor-1242 (4)	A	250.00	241		0.0414800			
Aroclor 1242 [2C]	A	250.00	260	0.0391981	0.0378458		3.8	+/-20
Aroclor-1242 (1) [2C]	A	250.00	260		0.0352222			
Aroclor-1242 (2) [2C]	A	250.00	197		0.0567736			
Aroclor-1242 (3) [2C]	A	250.00	289		0.0268433			
Aroclor-1242 (4) [2C]	A	250.00	292		0.0325440			
Decachlorobiphenyl	A	40.000	43.8	0.7333327	0.8038169		9.5	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1057410		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.4	1.1358180	1.1192630		-1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.6	1.0966080	1.0584320		-3.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042338ECD7.D
Data file 2: /230104.b/230104.b/01042338ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 04-JAN-2023 22:23
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	0.000	179627	5.707	0.000	120965	39.0	38.6	1.0	Tetrachloro-m-xylene
13.902	0.001	265561	14.127	-0.001	205551	43.8	39.4	10.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	324899	-27.4
Hexabromobiphenyl	798898	660750	-17.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	228574	-8.2
Hexabromobiphenyl	362541	367297	1.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.288	0.000	29727	322.8	1	7.270	0.001	25159	260.1
Aroclor-1242	2	7.675	0.001	83397	285.2	2	7.871	0.002	40553	197.5
Aroclor-1242	3	8.422	0.001	29799	354.2	3	9.169	0.002	19174	289.4
Aroclor-1242	4	9.020	-0.001	42115	241.1	4	9.590	0.002	23246	291.9
Total Col1Ave (4 peaks):					300.8	Total Col2Ave (4 peaks):				259.7 RPD = 15
Corrected Ave (3 peaks):					283.0	Corrected Ave (3 peaks):				249.0 RPD = 13
CalAmt %D:					20.3	CalAmt %D:				3.9

Total PCB Area Col1 (5.930 - 13.802) = 992773 Col1 Total PCB = 0.3 ppm*

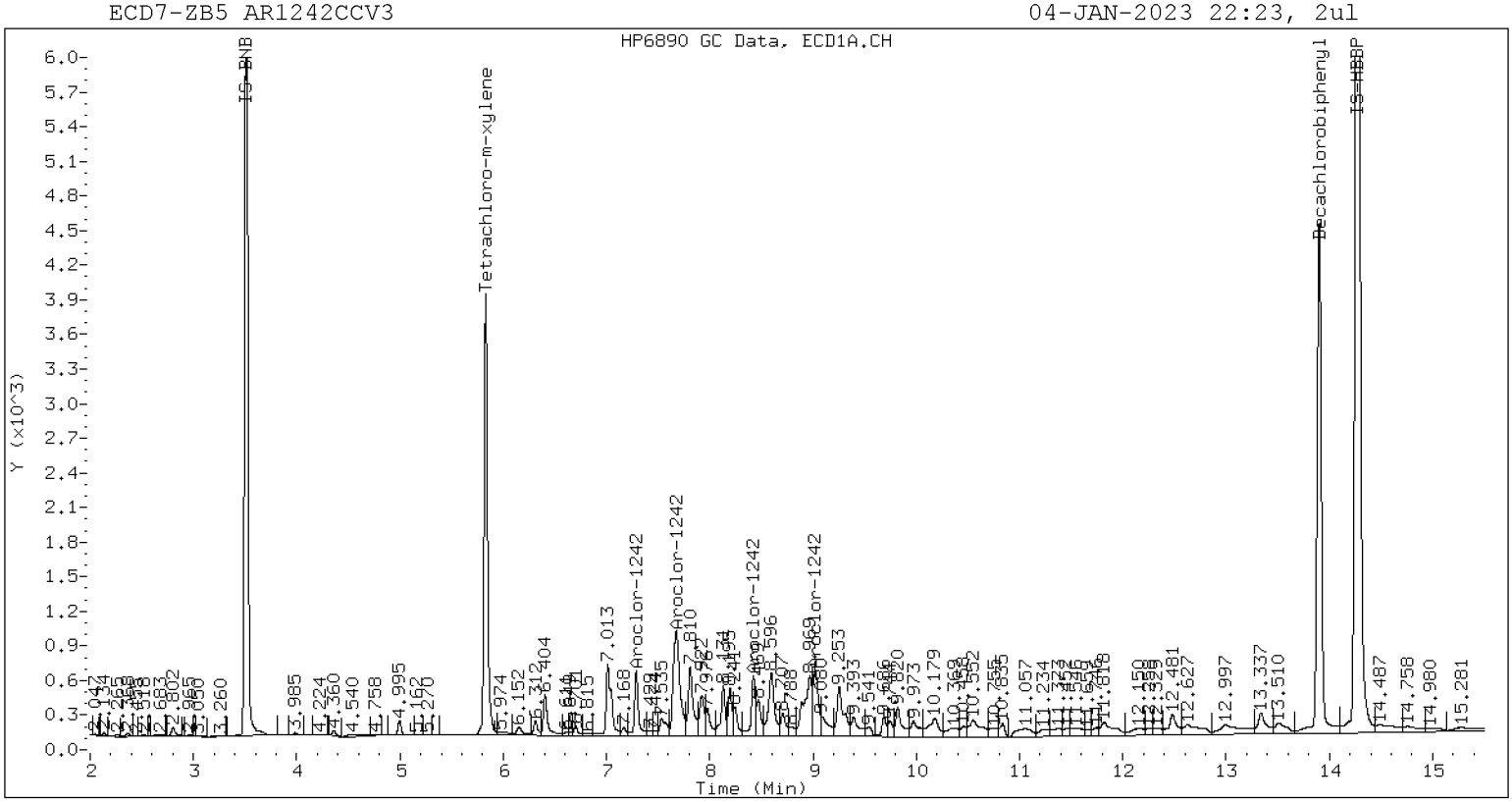
Total PCB Area Col2 (5.807 - 14.028) = 394777 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

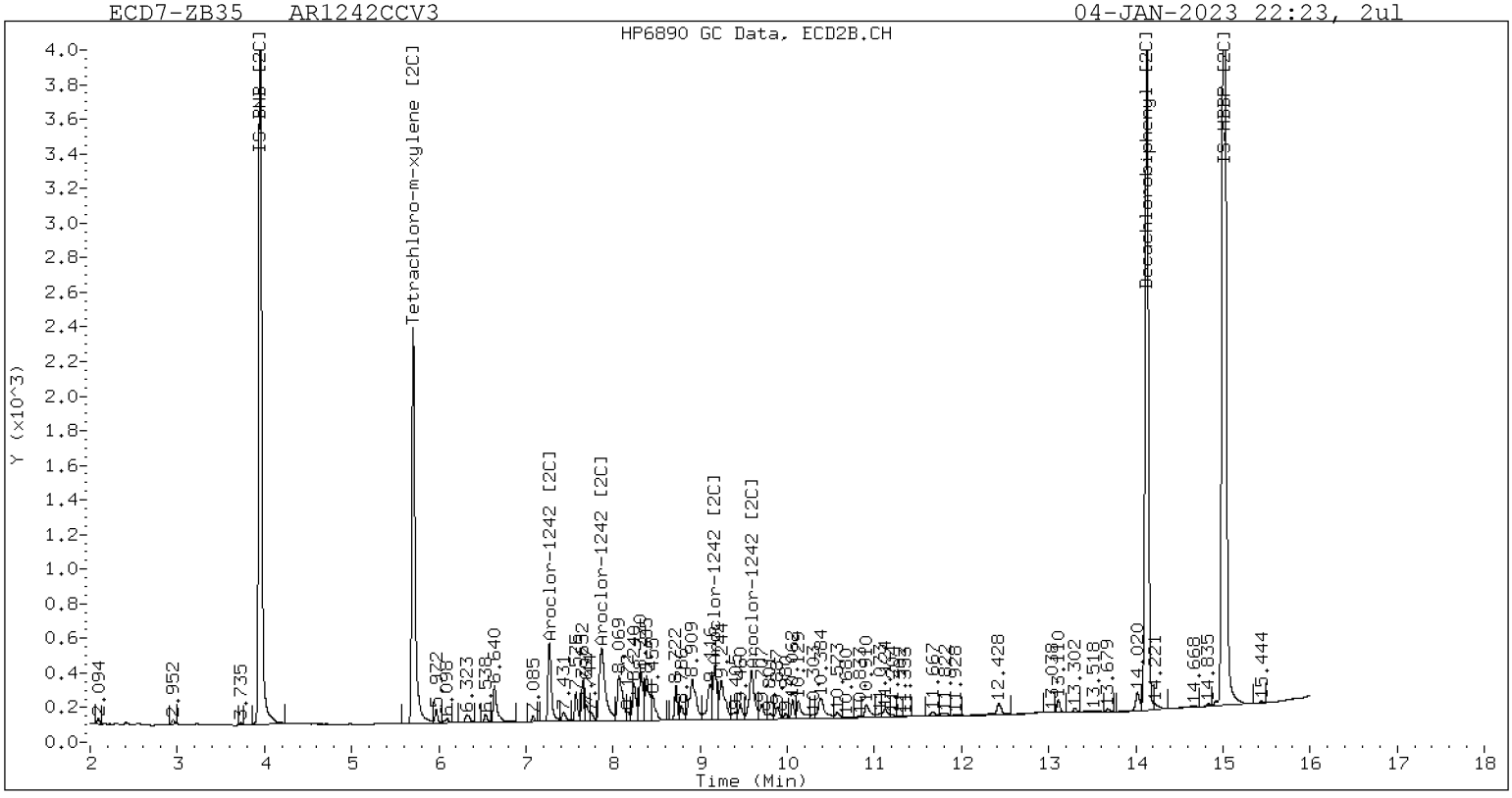
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 04-JAN-2023 22:23, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 04-JAN-2023 22:23, 2ul

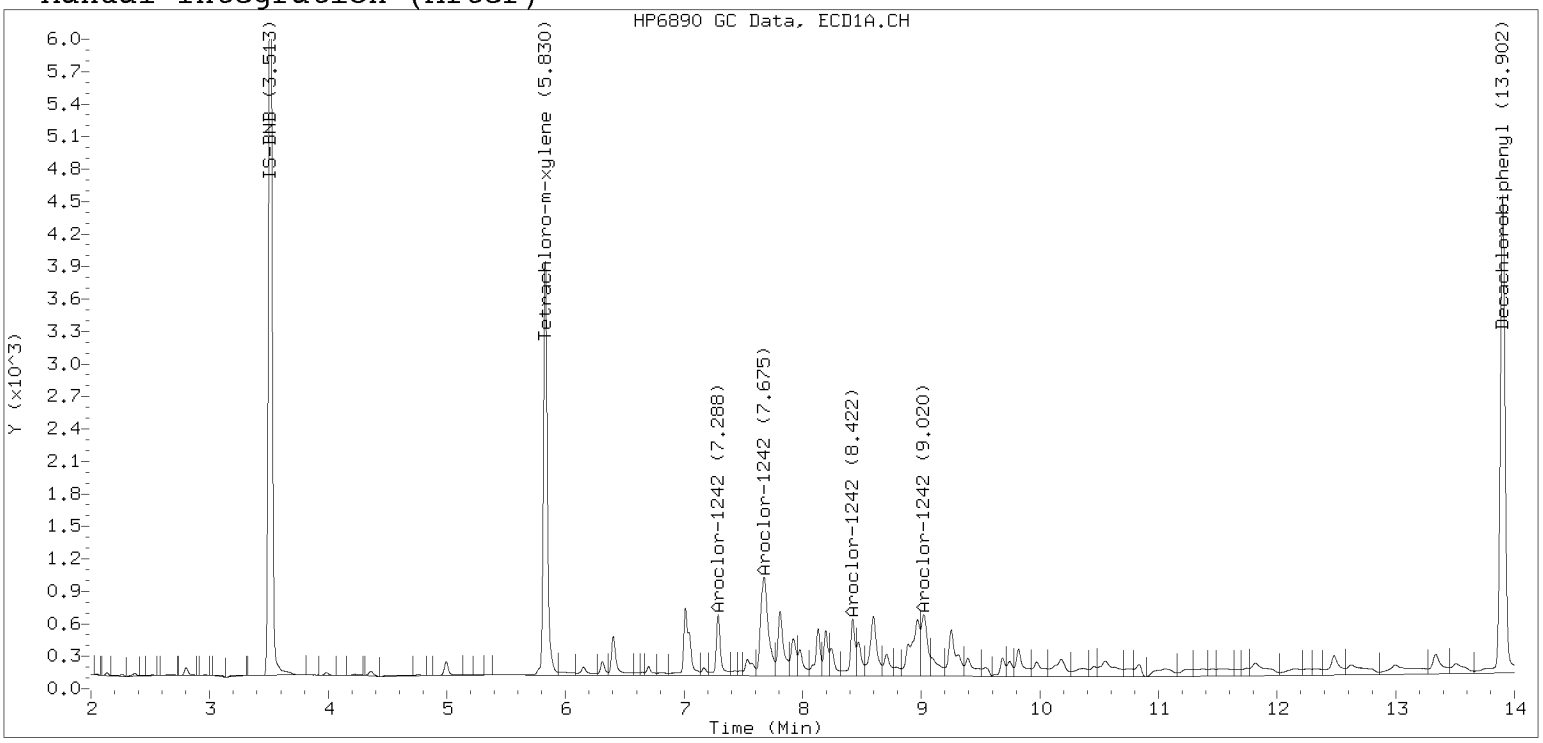


ZB-35 Manual Integration: NO

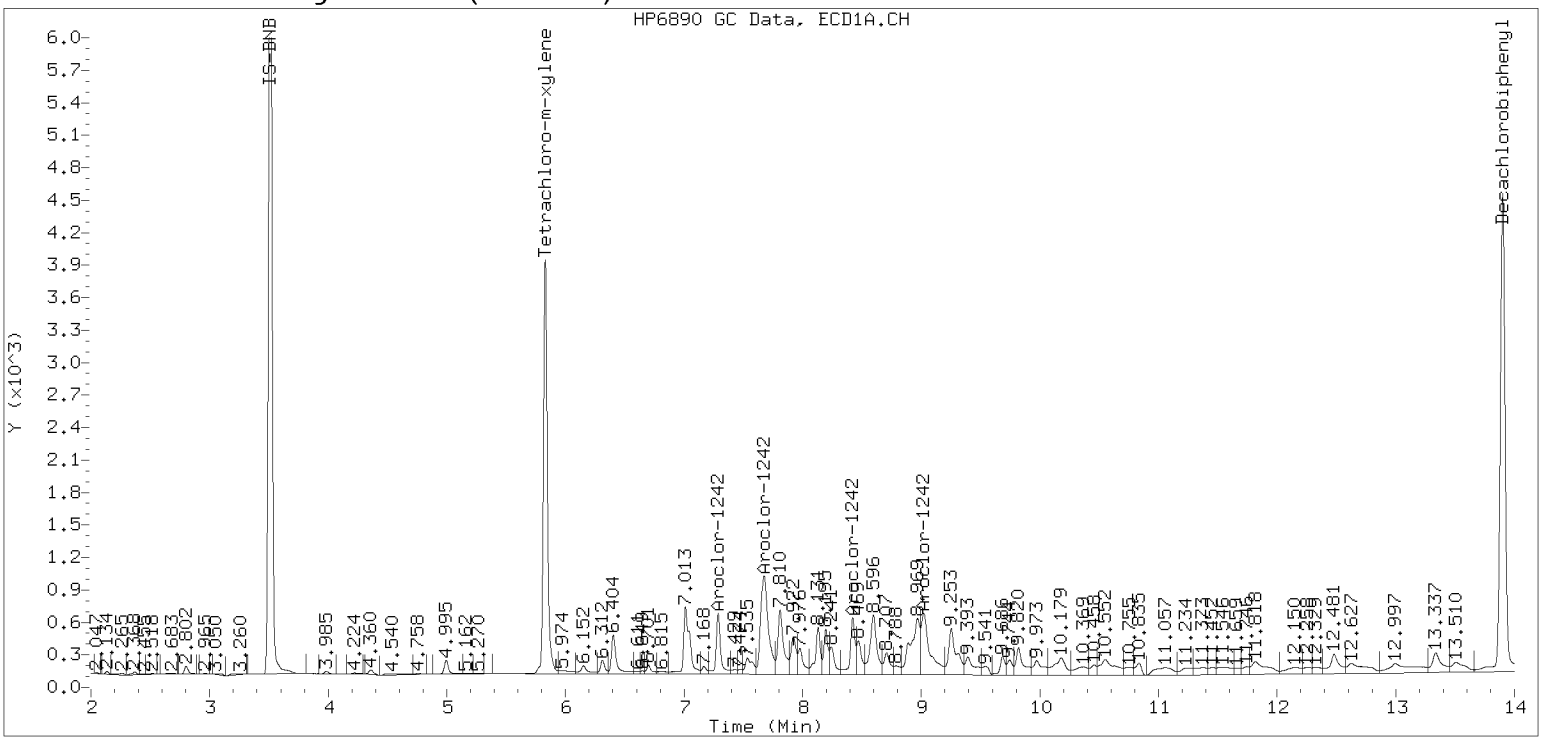
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042338ECD7.D Injection Date: 04-JAN-2023 22:23

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042339ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV4	Injection Time:	22:44
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	314	0.0441939	0.0531554		25.5	+/-20 *
Aroclor-1016 (1)	A	250.00	323	0.0266860	0.0344839		29.2	
Aroclor-1016 (2)	A	250.00	276	0.0861572	0.0952794		10.4	
Aroclor-1016 (3)	A	250.00	309	0.0390425	0.0483100		23.6	
Aroclor-1016 (4)	A	250.00	347	0.0248899	0.0345481		38.8	
Aroclor 1016 [2C]	A	250.00	241	0.0467310	0.0422410		-3.8	+/-20
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0414749		1.2	
Aroclor-1016 (2) [2C]	A	250.00	195	0.0882154	0.0687633		-22.0	
Aroclor-1016 (3) [2C]	A	250.00	247	0.0378846	0.0374101		-1.2	
Aroclor-1016 (4) [2C]	A	250.00	267	0.0199212	0.0213155		6.8	
Aroclor 1260	A	250.00	289	0.0390342	0.0449270		15.8	+/-20
Aroclor-1260 (1)	A	250.00	291	0.0291201	0.0338820		16.4	
Aroclor-1260 (2)	A	250.00	288	0.0301181	0.0347281		15.2	
Aroclor-1260 (3)	A	250.00	289	0.0791351	0.0914454		15.6	
Aroclor-1260 (4)	A	250.00	277	0.0403003	0.0446536		10.8	
Aroclor-1260 (5)	A	250.00	302	0.0164974	0.0199259		20.8	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0467710		-17.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	233	0.0422283	0.0393641		-6.8	
Aroclor-1260 (2) [2C]	A	250.00	162	0.1059643	0.0686665		-35.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0279592		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	181	0.0706376	0.0510942		-27.6	
Decachlorobiphenyl	A	40.000	47.1	0.7333327	0.8628283		17.8	+/-20
Tetrachlorometaxylene	A	40.000	40.3	1.1336710	1.1422770		0.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.9	1.1358180	1.1337290		-0.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1057700		0.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042339ECD7.D
Data file 2: /230104.b/230104.b/01042339ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 04-JAN-2023 22:44
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	148050	5.708	0.001	96714	40.3	40.3	0.1	Tetrachloro-m-xylene
13.902	0.001	241472	14.127	-0.000	179060	47.1	39.9	16.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	259219	-42.1
Hexabromobiphenyl	798898	559722	-29.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	174926	-29.8
Hexabromobiphenyl	362541	315878	-12.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.000	27934	323.1	1	7.270	0.001	22672	253.5
Aroclor-1016	2	7.677	0.000	77182	276.5	2	7.870	-0.001	37589	194.9
Aroclor-1016	3	7.812	0.000	39134	309.3	3	8.071	0.002	20450	246.9
Aroclor-1016	4	8.421	0.000	27986	347.0	4	8.241	0.001	11652	267.5
Total Col1Ave (4 peaks):					314.0	Total Col2Ave (4 peaks):				240.7 RPD = 26
Corrected Ave (3 peaks):					303.0	Corrected Ave (3 peaks):				231.7 RPD = 27
CalAmt %D:					25.6	CalAmt %D:				-3.7
Aroclor-1260	1	11.056	0.000	59264	290.9	1	11.662	0.001	38857	233.0
Aroclor-1260	2	11.372	0.000	60744	288.3	2	11.924	0.000	67782	162.0
Aroclor-1260	3	11.746	0.000	159950	288.9	3	12.442	-0.001	27599	247.7
Aroclor-1260	4	12.150	0.000	78105	277.0	4	12.507	0.001	50436	180.8
Aroclor-1260	5	12.255	0.000	34853	302.0	NS	---			----
Total Col1Ave (5 peaks):					289.4	Total Col2Ave (4 peaks):				205.9 RPD = 34
Corrected Ave (4 peaks):					286.3	Corrected Ave (3 peaks):				192.0 RPD = 39
CalAmt %D:					15.8	CalAmt %D:				-17.6

Total PCB Area Col1 (5.930 - 13.802) = 1764265 Col1 Total PCB = 0.7 ppm*

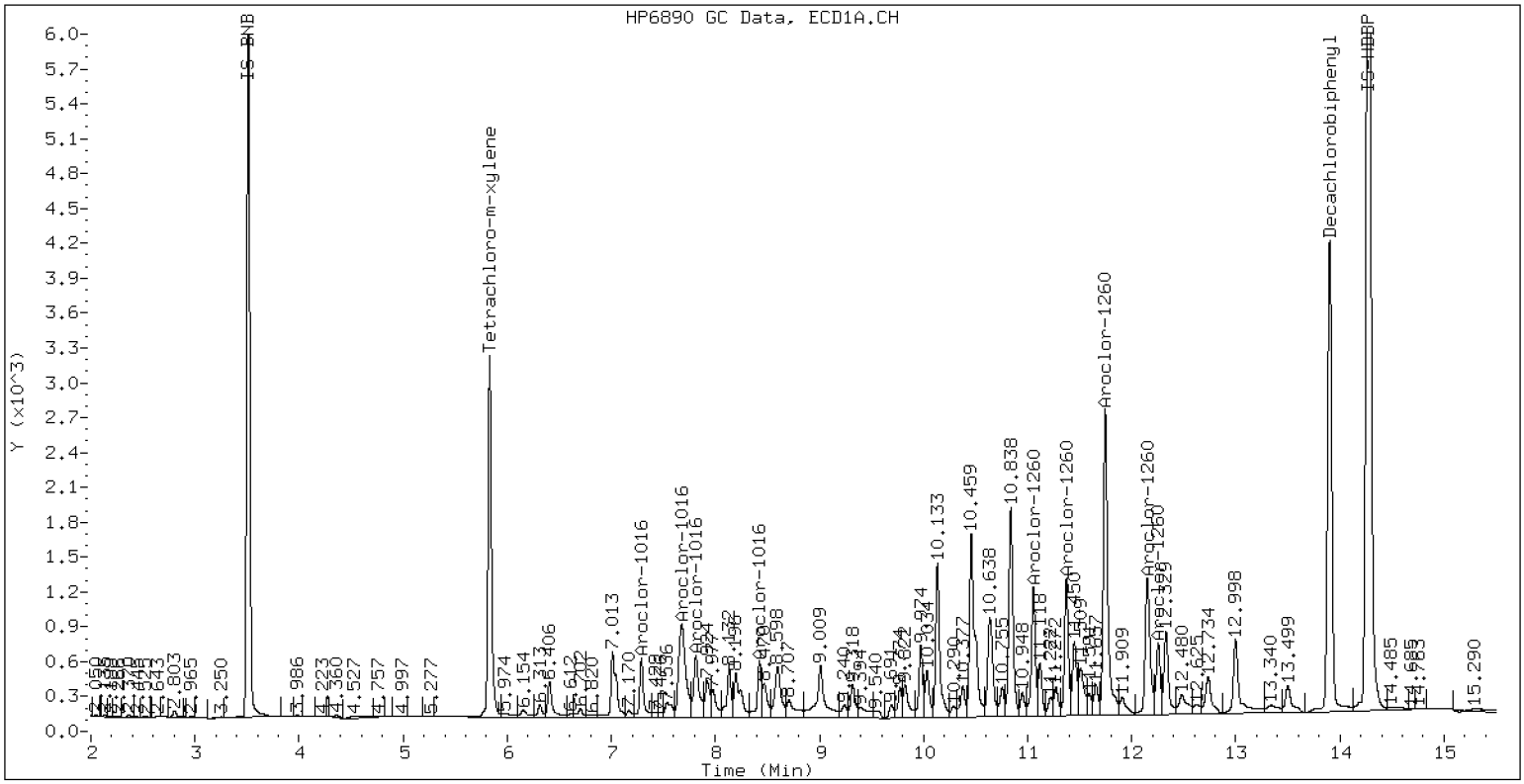
Total PCB Area Col2 (5.807 - 14.028) = 830448 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

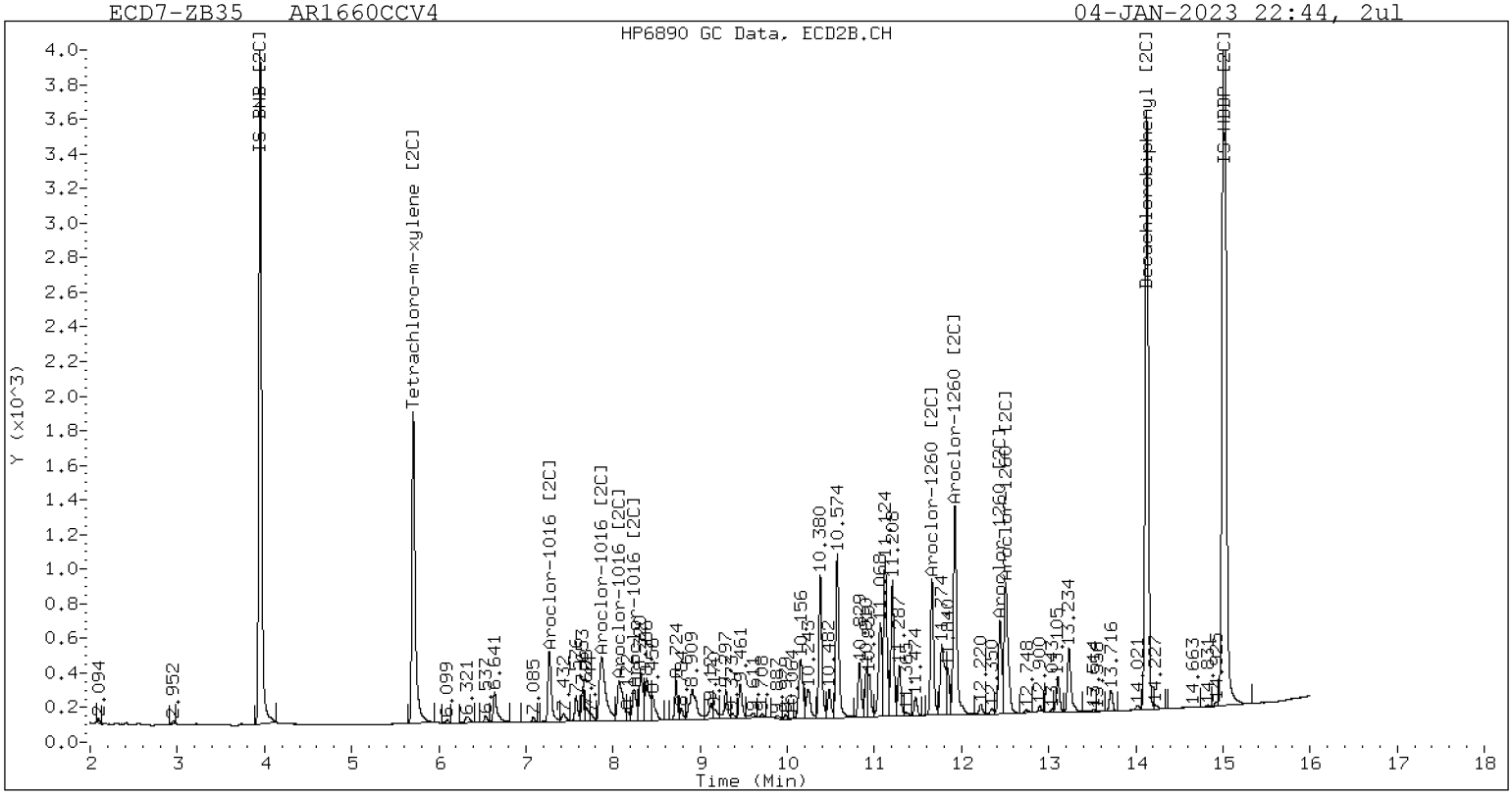
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 04-JAN-2023 22:44, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV4 04-JAN-2023 22:44, 2ul

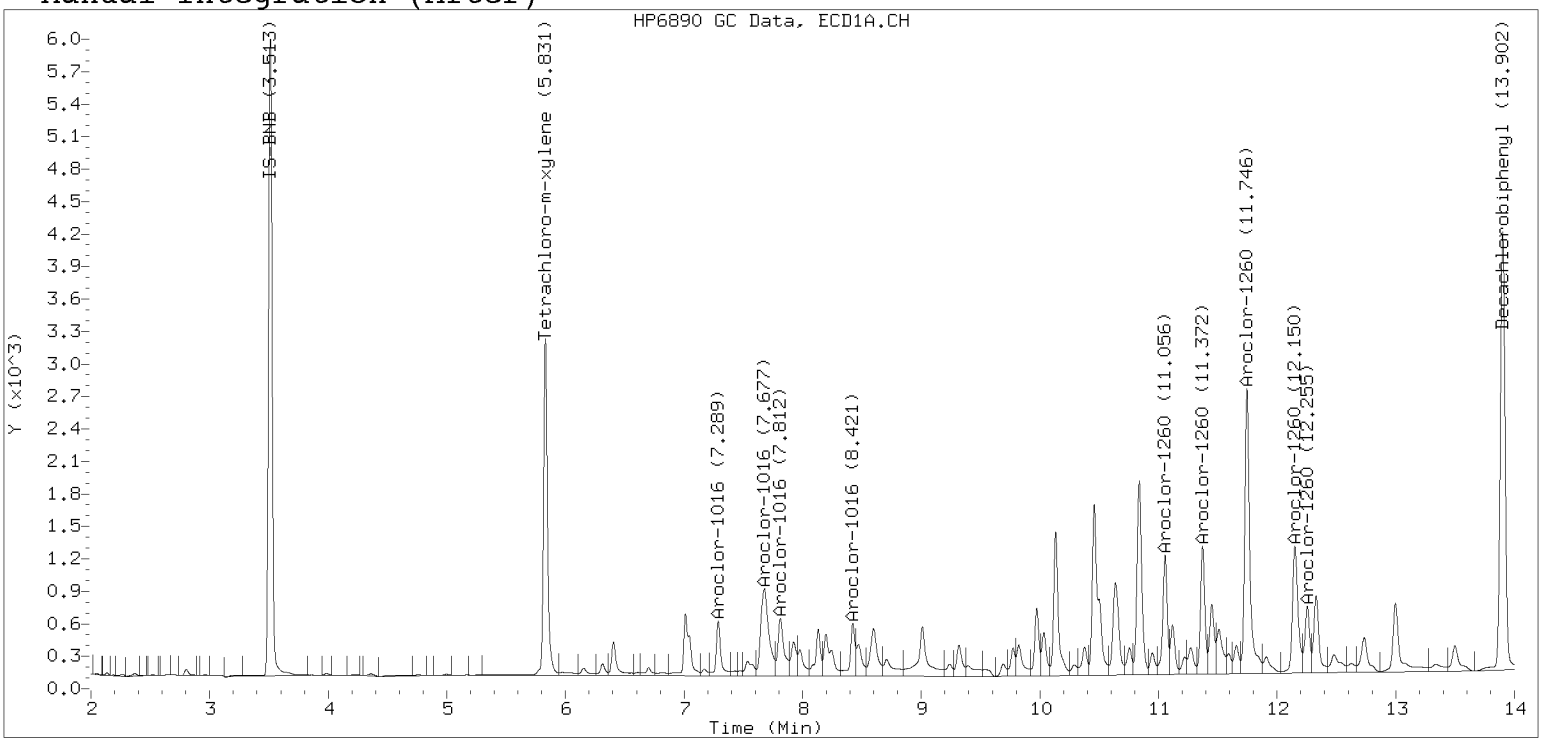


ZB-35 Manual Integration: NO

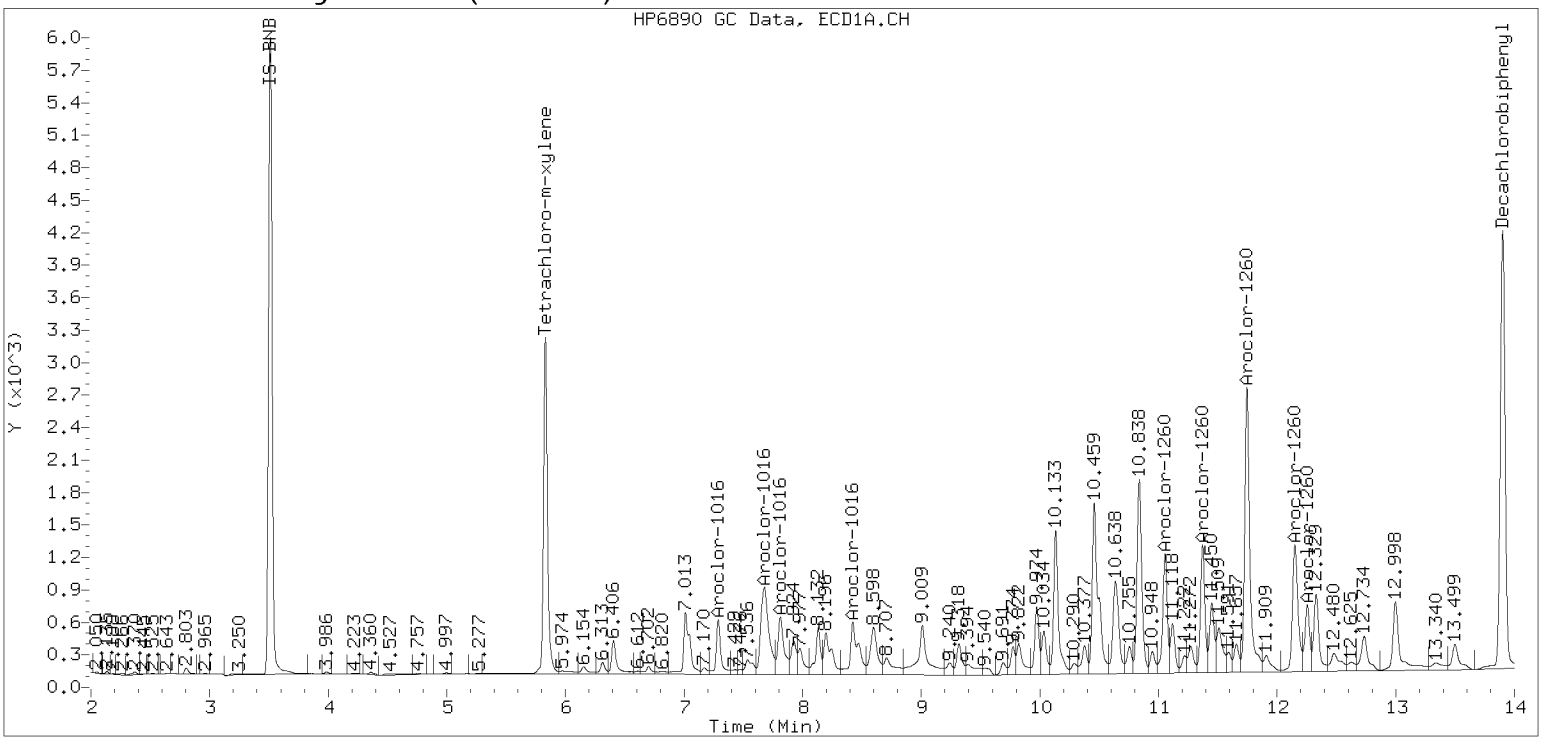
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042339ECD7.D Injection Date: 04-JAN-2023 22:44

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042350ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV5	Injection Time:	02:37
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	273	0.0576965	0.0633897		9.1	+/-20
Aroclor-1254 (1)	A	250.00	249		0.0701529			
Aroclor-1254 (2)	A	250.00	288		0.0315248			
Aroclor-1254 (3)	A	250.00	224		0.0399435			
Aroclor-1254 (4)	A	250.00	295		0.1021929			
Aroclor-1254 (5)	A	250.00	308		0.0731346			
Aroclor 1254 [2C]	A	250.00	234	0.0638047	0.0611668		-6.5	+/-20
Aroclor-1254 (1) [2C]	A	250.00	238		0.0490094			
Aroclor-1254 (2) [2C]	A	250.00	147		0.0244216			
Aroclor-1254 (3) [2C]	A	250.00	215		0.0767307			
Aroclor-1254 (4) [2C]	A	250.00	284		0.1049561			
Aroclor-1254 (5) [2C]	A	250.00	285		0.0507160			
Decachlorobiphenyl	A	40.000	44.0	0.7333327	0.8076397		10.0	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0541110		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1528160		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.2	1.0966080	0.9935574		-9.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042350ECD7.D
Data file 2: /230104.b/230104.b/01042350ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 05-JAN-2023 02:37
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	181686	5.709	0.002	120443	37.2	36.2	2.6	Tetrachloro-m-xylene
13.902	0.001	267968	14.127	-0.001	223338	44.1	40.6	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	344719	-23.0
Hexabromobiphenyl	798898	663583	-16.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	242448	-2.7
Hexabromobiphenyl	362541	387465	6.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	-0.007	75572	249.0	1	9.460	0.000	37132	237.5
Aroclor-1254	2	9.393	-0.009	33960	287.7	2	9.978	0.000	18503	147.2
Aroclor-1254	3	9.685	-0.009	43029	224.5	3	10.129	0.000	58135	215.2
Aroclor-1254	4	9.820	-0.011	110087	294.6	4	10.377	0.000	79520	284.2
Aroclor-1254	5	10.175	-0.014	78784	307.6	5	10.575	0.000	38425	284.8
		Total Col1Ave (5 peaks):		272.7			Total Col2Ave (5 peaks):		233.8	RPD = 15
		Corrected Ave (4 peaks):		263.9			Corrected Ave (4 peaks):		221.1	RPD = 18
			CalAmt %D:	9.1				CalAmt %D:	-6.5	

Total PCB Area Col1 (5.930 - 13.802) = 1160457 Col1 Total PCB = 0.4 ppm*

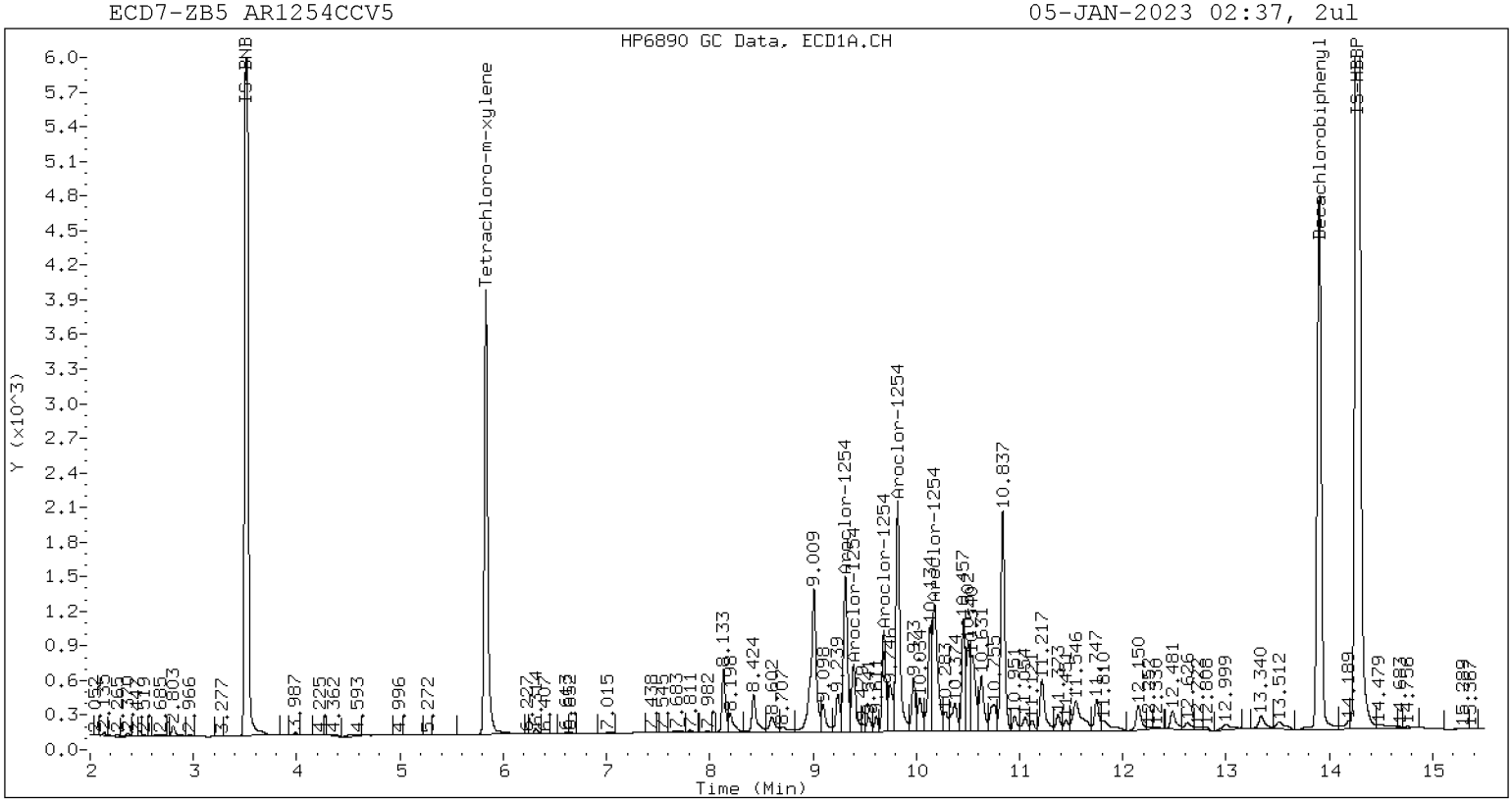
Total PCB Area Col2 (5.807 - 14.028) = 682418 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

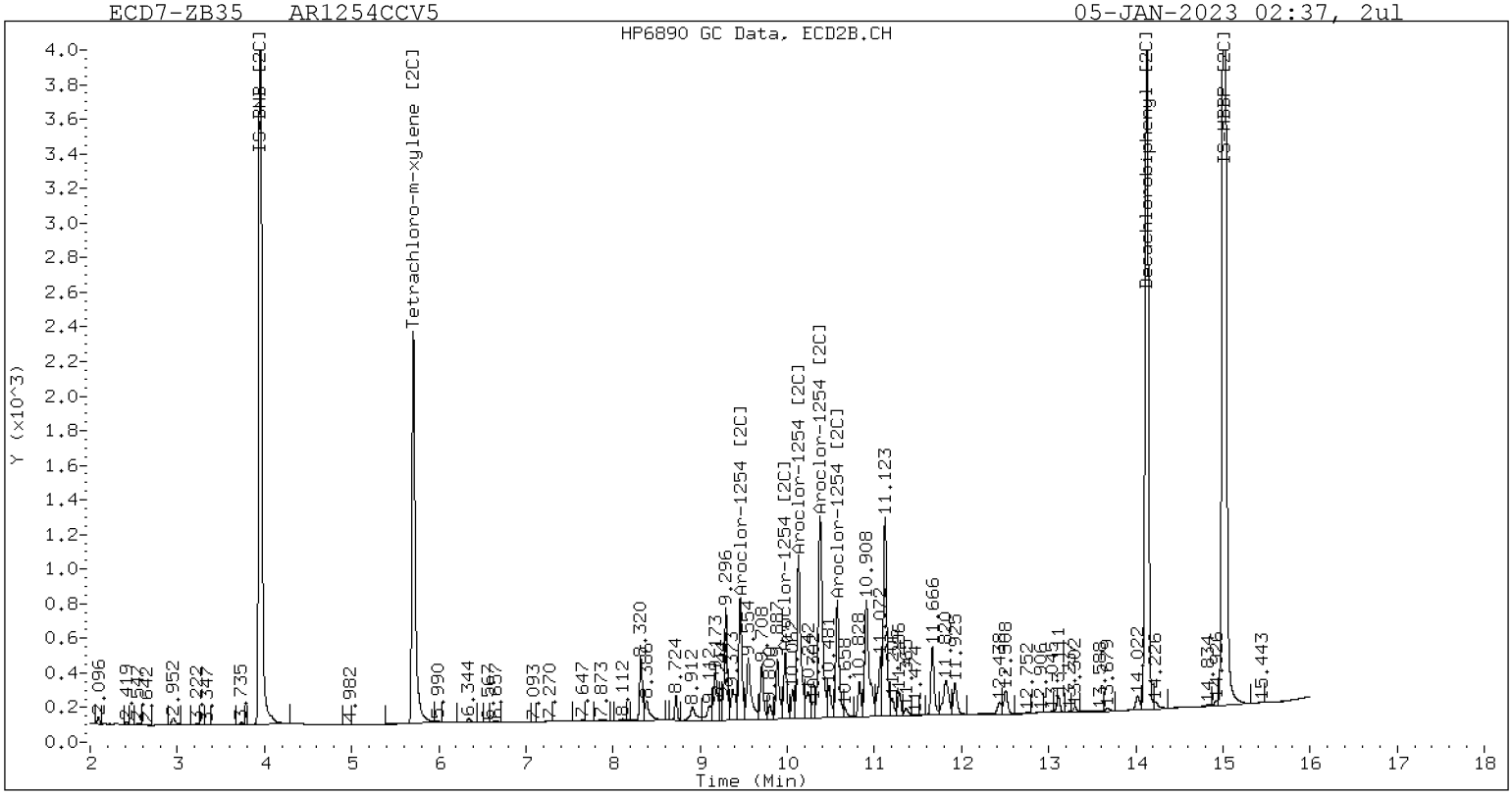
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 05-JAN-2023 02:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 05-JAN-2023 02:37, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042351ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV6	Injection Time:	02:58
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	324	0.0441939	0.0547664		29.5	+/-20 *
Aroclor-1016 (1)	A	250.00	328	0.0266860	0.0349943		31.2	
Aroclor-1016 (2)	A	250.00	286	0.0861572	0.0986699		14.4	
Aroclor-1016 (3)	A	250.00	309	0.0390425	0.0483159		23.6	
Aroclor-1016 (4)	A	250.00	372	0.0248899	0.0370854		48.8	
Aroclor 1016 [2C]	A	250.00	239	0.0467310	0.0418219		-4.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407410		-0.4	
Aroclor-1016 (2) [2C]	A	250.00	192	0.0882154	0.0679595		-23.2	
Aroclor-1016 (3) [2C]	A	250.00	245	0.0378846	0.0371419		-2.0	
Aroclor-1016 (4) [2C]	A	250.00	269	0.0199212	0.0214453		7.6	
Aroclor 1260	A	250.00	285	0.0390342	0.0441122		13.9	+/-20
Aroclor-1260 (1)	A	250.00	282	0.0291201	0.0328010		12.8	
Aroclor-1260 (2)	A	250.00	281	0.0301181	0.0338116		12.4	
Aroclor-1260 (3)	A	250.00	283	0.0791351	0.0895972		13.2	
Aroclor-1260 (4)	A	250.00	276	0.0403003	0.0444348		10.4	
Aroclor-1260 (5)	A	250.00	302	0.0164974	0.0199163		20.8	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0465679		-17.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	237	0.0422283	0.0400454		-5.2	
Aroclor-1260 (2) [2C]	A	250.00	160	0.1059643	0.0677146		-36.0	
Aroclor-1260 (3) [2C]	A	250.00	250	0.0282173	0.0282570		0.0	
Aroclor-1260 (4) [2C]	A	250.00	178	0.0706376	0.0502547		-28.8	
Decachlorobiphenyl	A	40.000	46.5	0.7333327	0.8527579		16.3	+/-20
Tetrachlorometaxylene	A	40.000	41.4	1.1336710	1.1726440		3.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1508850		1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.5	1.0966080	1.1103650		1.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042351ECD7.D
Data file 2: /230104.b/230104.b/01042351ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 05-JAN-2023 02:58
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	0.000	155672	5.707	-0.000	101242	41.4	40.5	2.1	Tetrachloro-m-xylene
13.902	0.001	256539	14.127	-0.000	185777	46.5	40.5	13.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	265506	-40.7
Hexabromobiphenyl	798898	601669	-24.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	182358	-26.8
Hexabromobiphenyl	362541	322842	-11.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.001	29035	327.8	1	7.270	0.001	23217	249.0
Aroclor-1016	2	7.676	-0.001	81867	286.3	2	7.871	-0.000	38728	192.6
Aroclor-1016	3	7.811	-0.001	40088	309.4	3	8.069	0.000	21166	245.1
Aroclor-1016	4	8.422	0.001	30770	372.5	4	8.240	0.000	12221	269.1
Total Col1Ave (4 peaks):					324.0	Total Col2Ave (4 peaks):				239.0 RPD = 30
Corrected Ave (3 peaks):					307.8	Corrected Ave (3 peaks):				228.9 RPD = 29
CalAmt %D:					29.6	CalAmt %D:				-4.4
Aroclor-1260	1	11.054	-0.001	61673	281.6	1	11.661	0.001	40401	237.1
Aroclor-1260	2	11.372	-0.000	63573	280.7	2	11.924	0.001	68316	159.8
Aroclor-1260	3	11.745	-0.001	168462	283.1	3	12.443	0.000	28508	250.4
Aroclor-1260	4	12.150	-0.000	83547	275.6	4	12.507	0.001	50701	177.9
Aroclor-1260	5	12.255	-0.000	37447	301.8	NS	---			----
Total Col1Ave (5 peaks):					284.6	Total Col2Ave (4 peaks):				206.3 RPD = 32
Corrected Ave (4 peaks):					280.2	Corrected Ave (3 peaks):				191.6 RPD = 38
CalAmt %D:					13.8	CalAmt %D:				-17.5

Total PCB Area Col1 (5.930 - 13.802) = 1867352 Col1 Total PCB = 0.7 ppm*

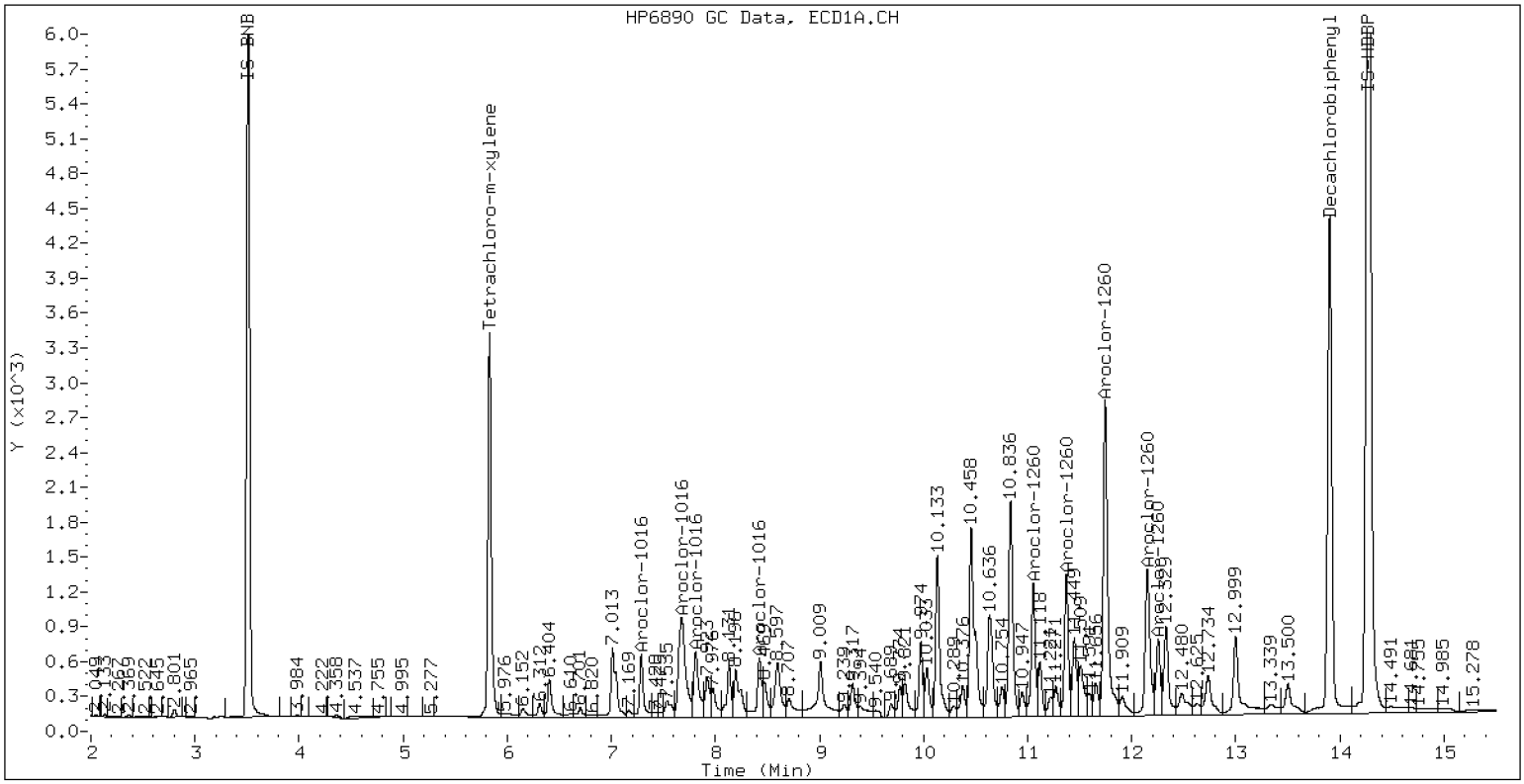
Total PCB Area Col2 (5.807 - 14.028) = 853528 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

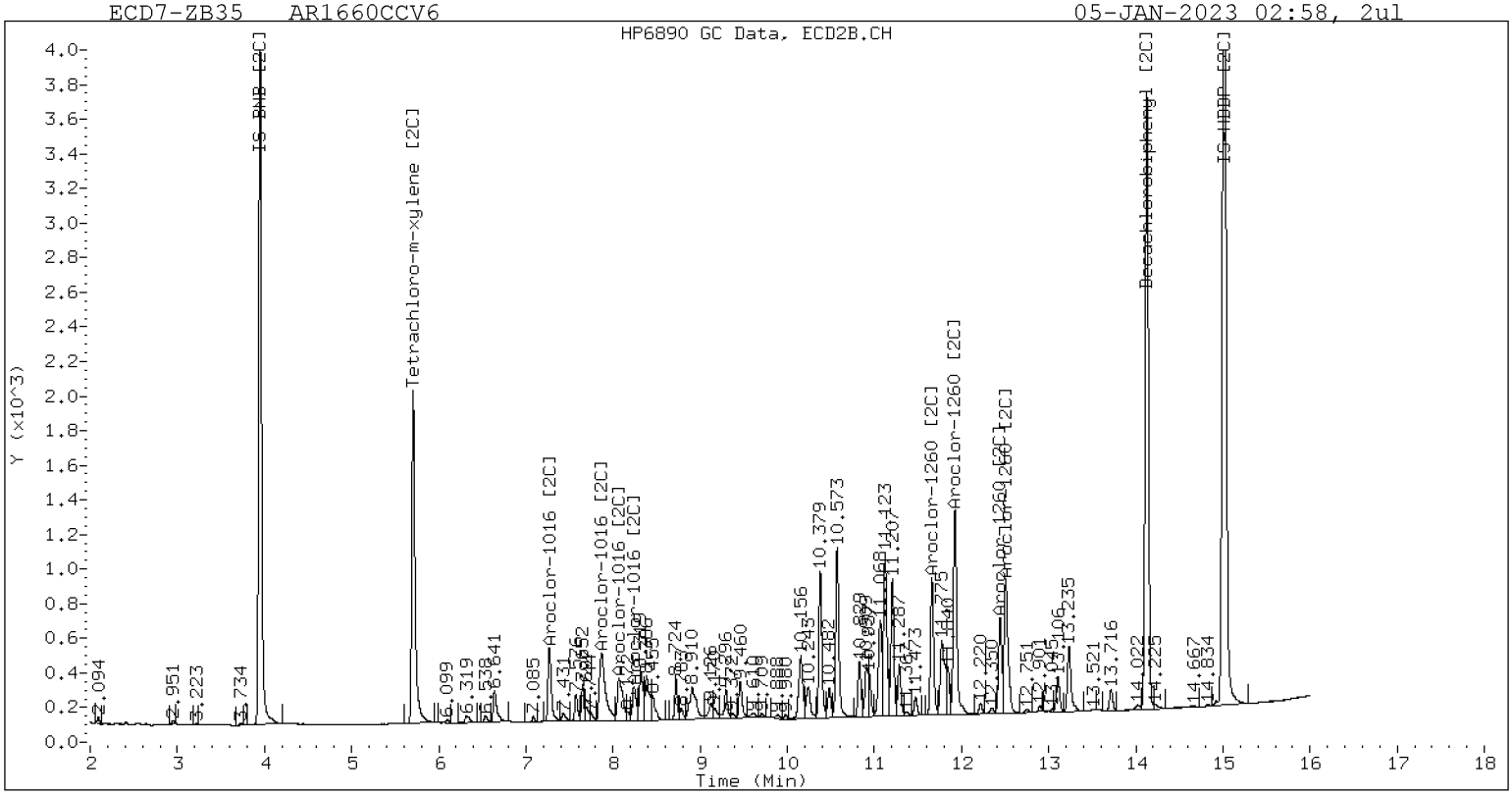
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 05-JAN-2023 02:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 05-JAN-2023 02:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042357ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV7	Injection Time:	05:05
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	256	0.0490062	0.0515230		2.5	+/-20
Aroclor-1248 (1)	A	250.00	283		0.0389286			
Aroclor-1248 (2)	A	250.00	298		0.0522926			
Aroclor-1248 (3)	A	250.00	287		0.0905998			
Aroclor-1248 (4)	A	250.00	157		0.0242710			
Aroclor 1248 [2C]	A	250.00	247	0.0394876	0.0394734		-1.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	259		0.0338655			
Aroclor-1248 (2) [2C]	A	250.00	185		0.0254943			
Aroclor-1248 (3) [2C]	A	250.00	273		0.0456954			
Aroclor-1248 (4) [2C]	A	250.00	269		0.0528382			
Decachlorobiphenyl	A	40.000	42.3	0.7333327	0.7757391		5.8	+/-20
Tetrachlorometaxylene	A	40.000	36.8	1.1336710	1.0421740		-8.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.6	1.1358180	1.1254170		-1.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.6	1.0966080	1.0315620		-6.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042357ECD7.D
Data file 2: /230104.b/230104.b/01042357ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 05-JAN-2023 05:05
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	191041	5.708	0.001	131273	36.8	37.6	2.3	Tetrachloro-m-xylene
13.904	0.002	285216	14.128	0.000	240676	42.3	39.6	6.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	366620	-18.1
Hexabromobiphenyl	798898	735340	-8.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254513	2.2
Hexabromobiphenyl	362541	427710	18.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.005	44600	282.9	1	8.320	0.000	26935	259.1
Aroclor-1248	2	8.598	-0.006	59911	297.7	2	8.725	0.000	20277	185.4
Aroclor-1248	3	9.017	-0.005	103799	286.7	3	9.171	0.000	36344	273.2
Aroclor-1248	4	9.309	-0.002	27807	156.8	4	9.592	0.000	42025	269.1
Total Col1Ave (4 peaks):					256.0	Total Col2Ave (4 peaks):				246.7 RPD = 4
Corrected Ave (3 peaks):					242.1	Corrected Ave (3 peaks):				237.9 RPD = 2
CalAmt %D:					2.4	CalAmt %D:				-1.3

Total PCB Area Col1 (5.930 - 13.802) = 959811 Col1 Total PCB = 0.3 ppm*

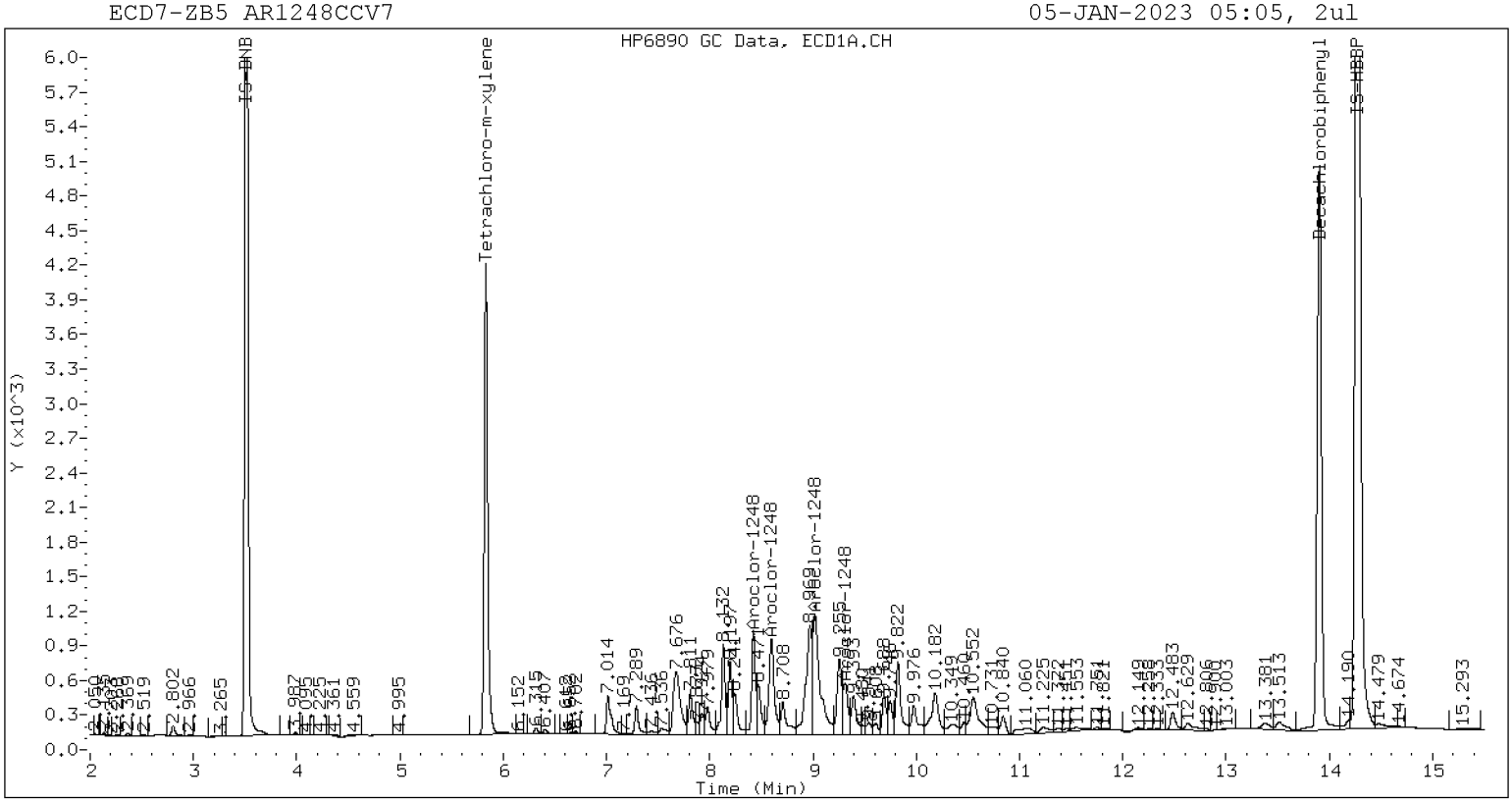
Total PCB Area Col2 (5.807 - 14.028) = 517445 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

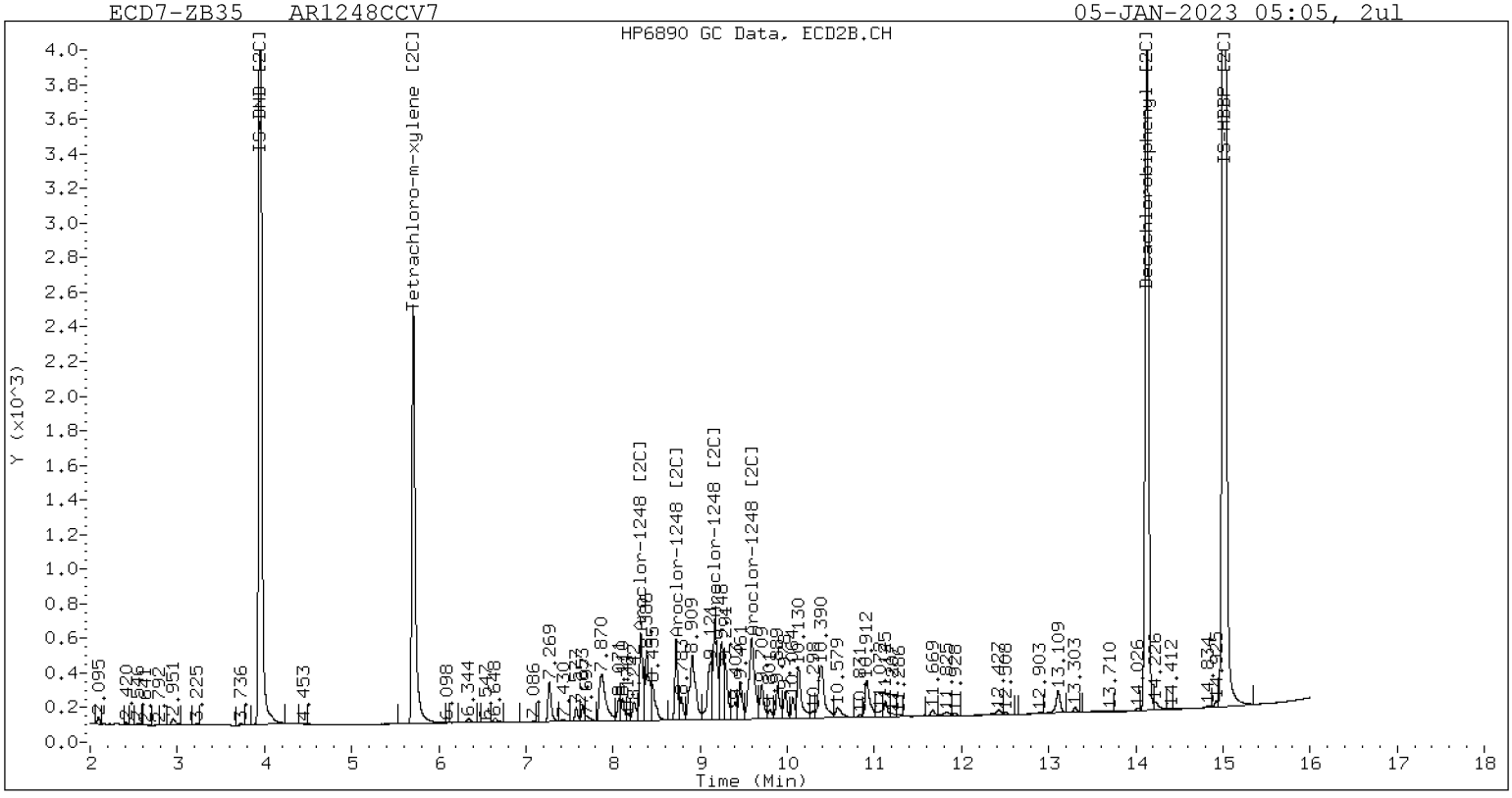
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 05-JAN-2023 05:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 05-JAN-2023 05:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042358ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV8	Injection Time:	05:26
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	258	0.0441939	0.0454959		3.2	+/-20
Aroclor-1016 (1)	A	250.00	253	0.0266860	0.0270200		1.2	
Aroclor-1016 (2)	A	250.00	255	0.0861572	0.0879156		2.0	
Aroclor-1016 (3)	A	250.00	264	0.0390425	0.0411843		5.6	
Aroclor-1016 (4)	A	250.00	260	0.0248899	0.0258636		4.0	
Aroclor 1016 [2C]	A	250.00	235	0.0467310	0.0411014		-6.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	244	0.0409030	0.0399275		-2.4	
Aroclor-1016 (2) [2C]	A	250.00	189	0.0882154	0.0668081		-24.4	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365155		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0211544		6.0	
Aroclor 1260	A	250.00	268	0.0390342	0.0416045		7.0	+/-20
Aroclor-1260 (1)	A	250.00	270	0.0291201	0.0314806		8.0	
Aroclor-1260 (2)	A	250.00	269	0.0301181	0.0323912		7.6	
Aroclor-1260 (3)	A	250.00	268	0.0791351	0.0848811		7.2	
Aroclor-1260 (4)	A	250.00	255	0.0403003	0.0410852		2.0	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0181846		10.4	
Aroclor 1260 [2C]	A	250.00	203	0.0617619	0.0458389		-18.7	+/-20
Aroclor-1260 (1) [2C]	A	250.00	233	0.0422283	0.0393410		-6.8	
Aroclor-1260 (2) [2C]	A	250.00	157	0.1059643	0.0665001		-37.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0279628		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	175	0.0706376	0.0495519		-30.0	
Decachlorobiphenyl	A	40.000	44.4	0.7333327	0.8139314		11.0	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1045020		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.4	1.1358180	1.1474800		1.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.9	1.0966080	1.0938410		-0.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042358ECD7.D
Data file 2: /230104.b/230104.b/01042358ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 05-JAN-2023 05:26
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	147472	5.707	0.000	98997	39.0	39.9	2.4	Tetrachloro-m-xylene
13.904	0.003	260292	14.128	0.001	191904	44.4	40.4	9.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	267038	-40.3
Hexabromobiphenyl	798898	639592	-19.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	181008	-27.3
Hexabromobiphenyl	362541	334479	-7.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.000	22548	253.1	1	7.270	0.000	22585	244.0
Aroclor-1016	2	7.677	0.000	73365	255.1	2	7.871	-0.000	37790	189.3
Aroclor-1016	3	7.811	-0.001	34368	263.7	3	8.070	0.001	20655	241.0
Aroclor-1016	4	8.422	0.001	21583	259.8	4	8.241	0.001	11966	265.5
Total Col1Ave (4 peaks):					257.9	Total Col2Ave (4 peaks):				235.0 RPD = 9
Corrected Ave (3 peaks):					256.0	Corrected Ave (3 peaks):				224.8 RPD = 13
CalAmt %D:					3.2	CalAmt %D:				-6.0
Aroclor-1260	1	11.055	-0.001	62921	270.3	1	11.662	0.002	41121	232.9
Aroclor-1260	2	11.372	-0.000	64741	268.9	2	11.924	0.001	69509	156.9
Aroclor-1260	3	11.746	0.000	169654	268.2	3	12.443	0.001	29228	247.7
Aroclor-1260	4	12.149	-0.001	82118	254.9	4	12.507	0.001	51794	175.4
Aroclor-1260	5	12.255	0.000	36346	275.6	NS	---			----
Total Col1Ave (5 peaks):					267.5	Total Col2Ave (4 peaks):				203.2 RPD = 27
Corrected Ave (4 peaks):					265.5	Corrected Ave (3 peaks):				188.4 RPD = 34
CalAmt %D:					7.0	CalAmt %D:				-18.7

Total PCB Area Col1 (5.930 - 13.802) = 1686890 Col1 Total PCB = 0.7 ppm*

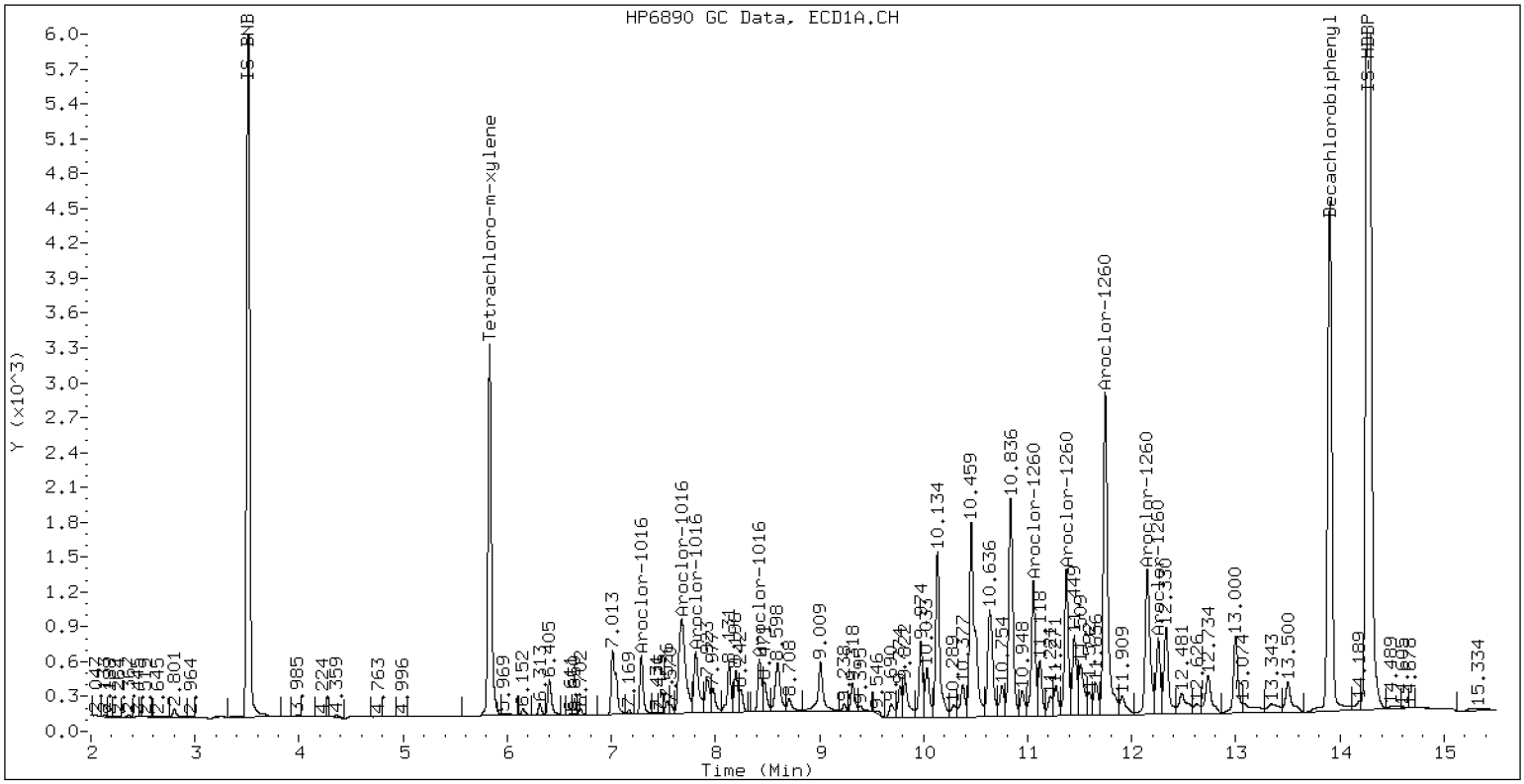
Total PCB Area Col2 (5.807 - 14.028) = 868887 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

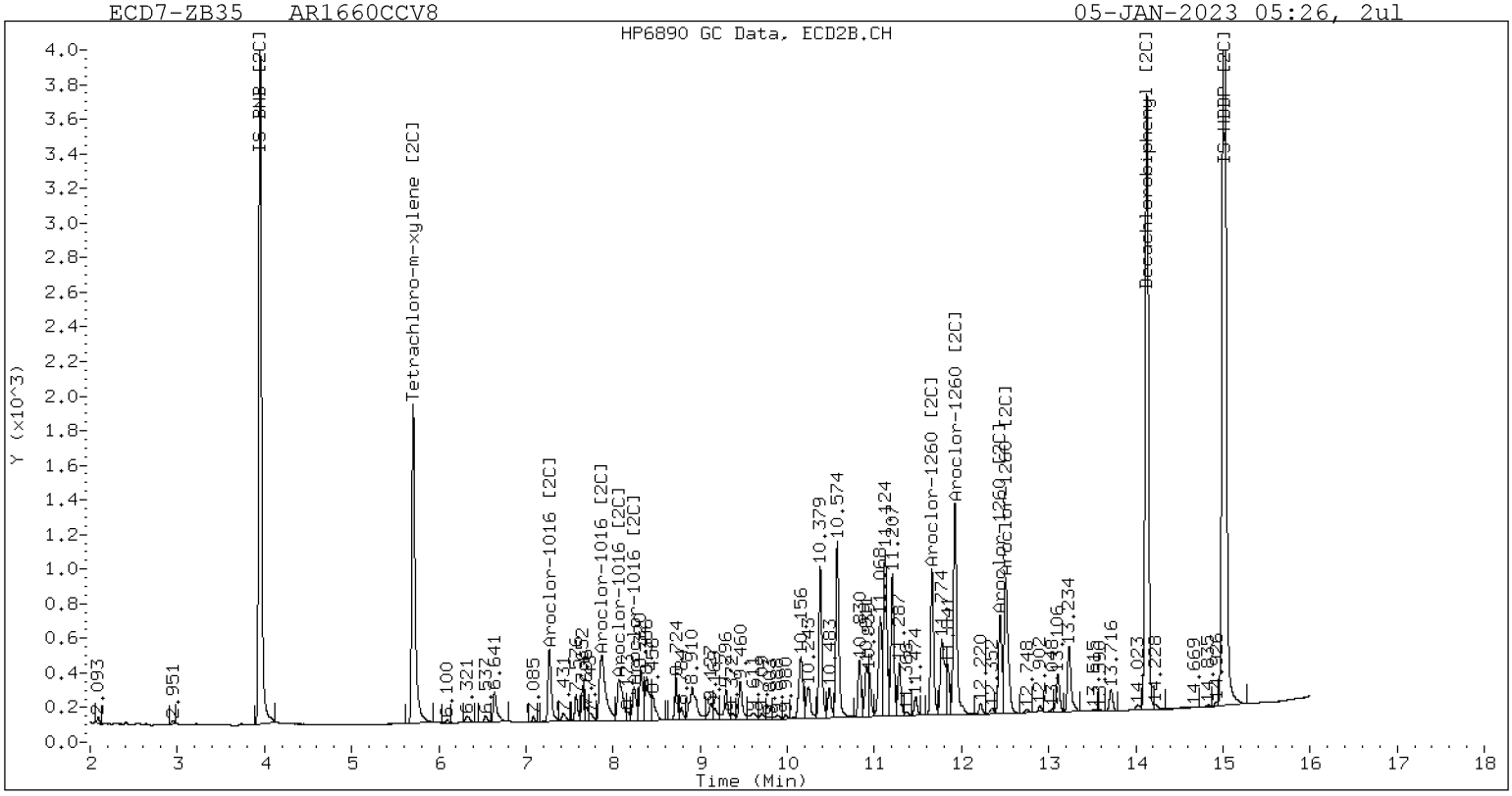
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 05-JAN-2023 05:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 05-JAN-2023 05:26, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042375ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV9	Injection Time:	11:25
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	275	0.0396000	0.0422279		9.8	+/-20
Aroclor-1242 (1)	A	250.00	272		0.0246361			
Aroclor-1242 (2)	A	250.00	271		0.0780489			
Aroclor-1242 (3)	A	250.00	329		0.0272544			
Aroclor-1242 (4)	A	250.00	226		0.0389721			
Aroclor 1242 [2C]	A	250.00	258	0.0391981	0.0374890		3.3	+/-20
Aroclor-1242 (1) [2C]	A	250.00	257		0.0348632			
Aroclor-1242 (2) [2C]	A	250.00	193		0.0554639			
Aroclor-1242 (3) [2C]	A	250.00	288		0.0266897			
Aroclor-1242 (4) [2C]	A	250.00	295		0.0329393			
Decachlorobiphenyl	A	40.000	43.2	0.7333327	0.7927384		8.0	+/-20
Tetrachlorometaxylene	A	40.000	37.3	1.1336710	1.0560300		-6.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1648310		2.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.8	1.0966080	1.0100830		-8.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042375ECD7.D
Data file 2: /230104.b/230104.b/01042375ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 05-JAN-2023 11:25
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	0.000	177592	5.706	-0.001	120712	37.3	36.8	1.1	Tetrachloro-m-xylene
13.902	0.000	199887	14.127	-0.000	190953	43.2	41.0	5.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	336339	-24.9
Hexabromobiphenyl	798898	504295	-36.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	239014	-4.0
Hexabromobiphenyl	362541	327864	-9.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.288	0.000	25894	271.6	1	7.269	0.000	26040	257.4
Aroclor-1242	2	7.675	0.000	82034	271.0	2	7.868	0.000	41427	192.9
Aroclor-1242	3	8.421	0.000	28646	328.9	3	9.167	0.000	19935	287.7
Aroclor-1242	4	9.020	0.000	40962	226.5	4	9.588	0.000	24603	295.5
Total Col1Ave (4 peaks):					274.5	Total Col2Ave (4 peaks):				258.4 RPD = 6
Corrected Ave (3 peaks):					256.4	Corrected Ave (3 peaks):				246.0 RPD = 4
CalAmt %D:					9.8	CalAmt %D:				3.4

Total PCB Area Col1 (5.930 - 13.802) = 827852 Col1 Total PCB = 0.3 ppm*

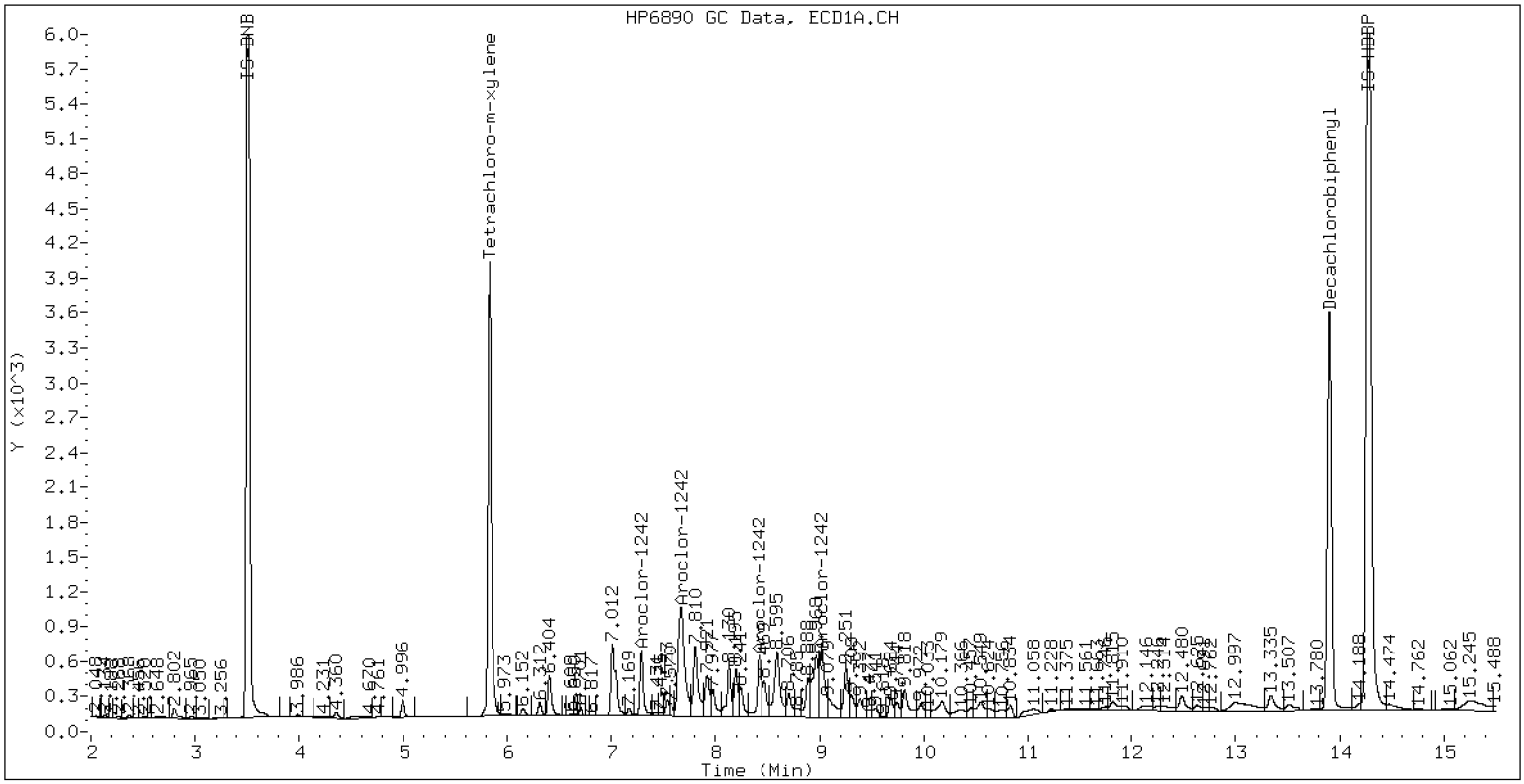
Total PCB Area Col2 (5.807 - 14.028) = 436809 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

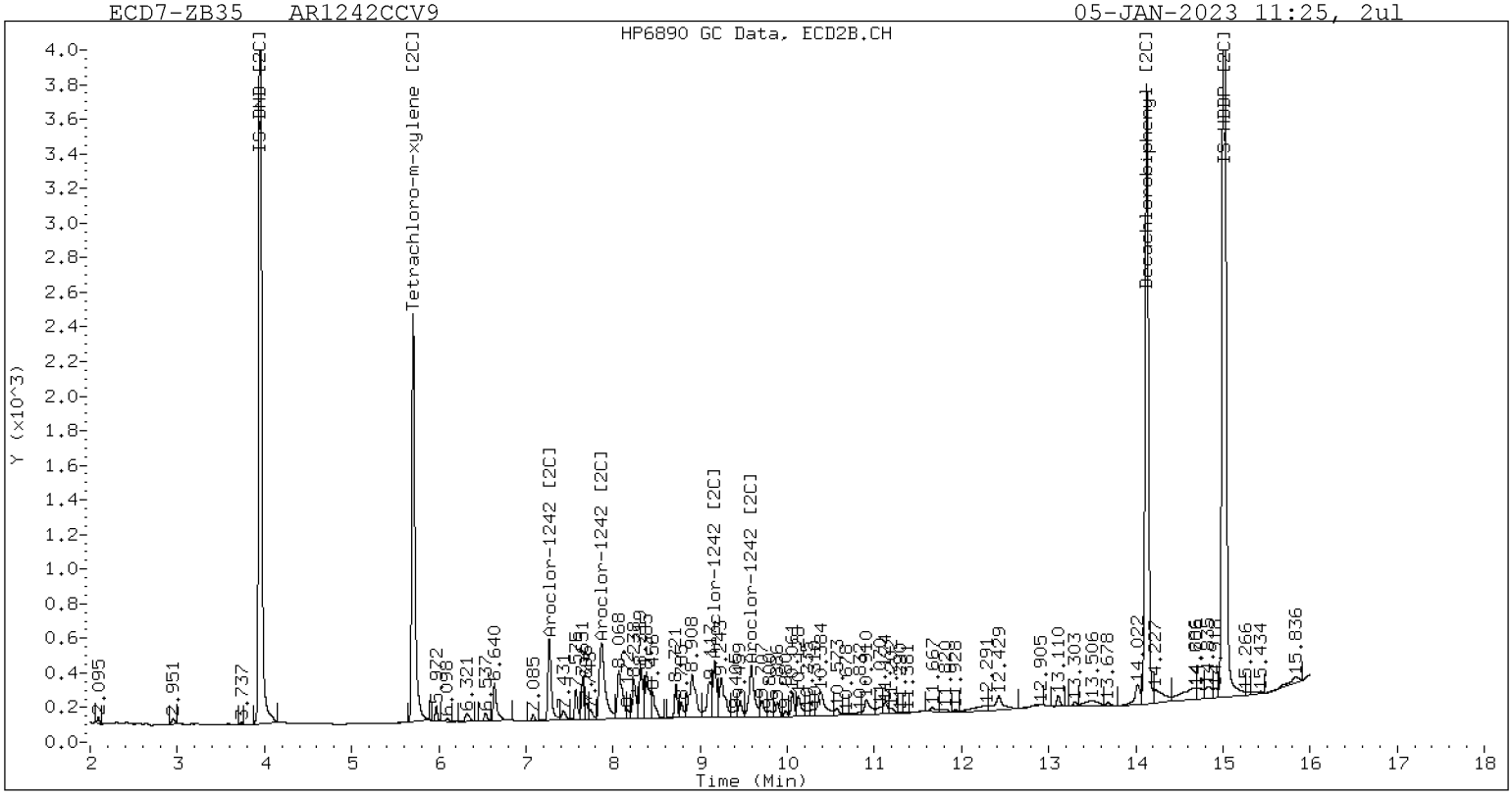
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 05-JAN-2023 11:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV9 05-JAN-2023 11:25, 2ul

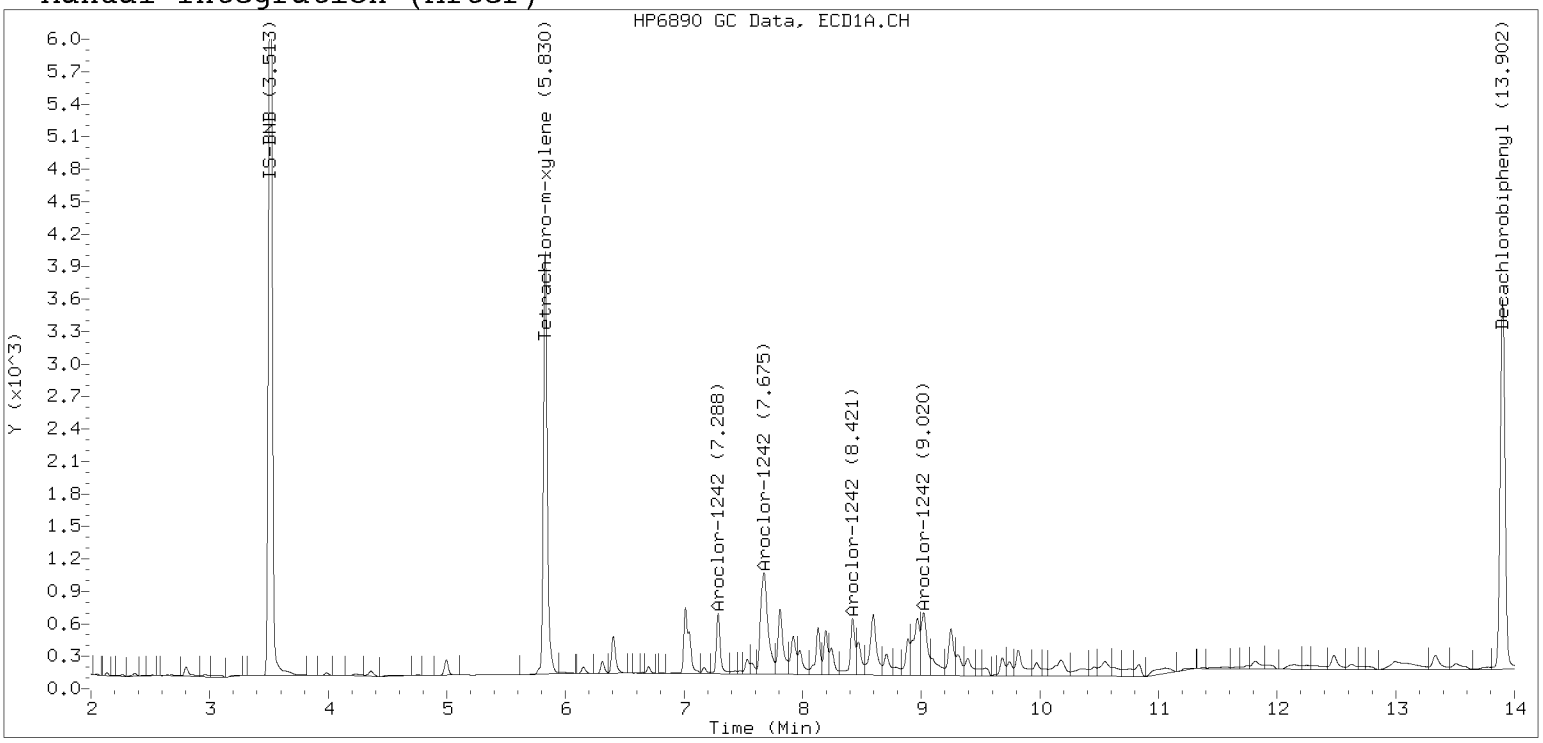


ZB-35 Manual Integration: NO

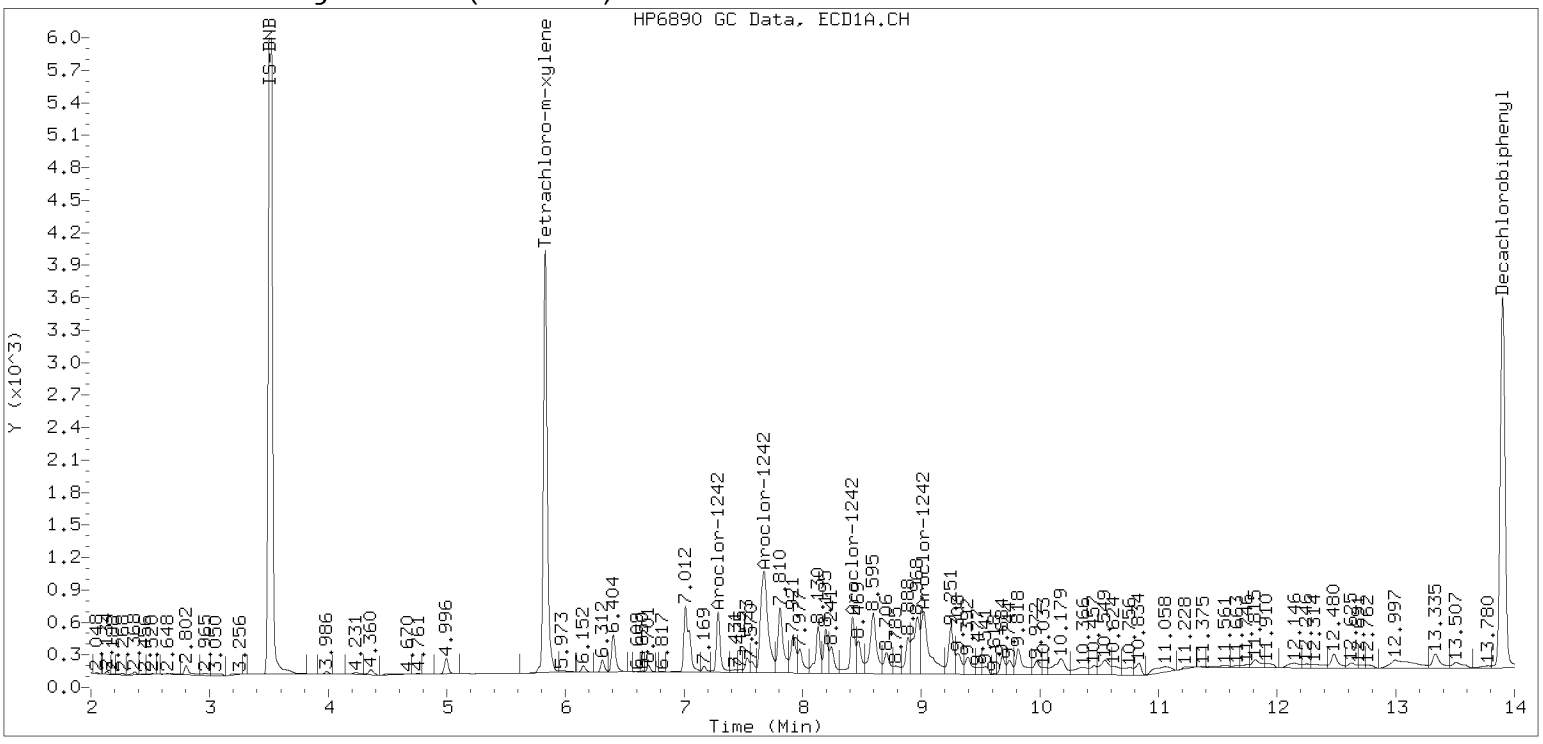
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042375ECD7.D Injection Date: 05-JAN-2023 11:25

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042376ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCVA	Injection Time:	11:46
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	269	0.0441939	0.0471532		7.4	+/-20	
Aroclor-1016 (1)	A	250.00	261	0.0266860	0.0278493		4.4		
Aroclor-1016 (2)	A	250.00	262	0.0861572	0.0904467		4.8		
Aroclor-1016 (3)	A	250.00	273	0.0390425	0.0425839		9.2		
Aroclor-1016 (4)	A	250.00	278	0.0248899	0.0277328		11.2		
Aroclor 1016 [2C]	A	250.00	239	0.0467310	0.0417252		-4.4	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	248	0.0409030	0.0406054		-0.8		
Aroclor-1016 (2) [2C]	A	250.00	191	0.0882154	0.0675376		-23.6		
Aroclor-1016 (3) [2C]	A	250.00	245	0.0378846	0.0371193		-2.0		
Aroclor-1016 (4) [2C]	A	250.00	272	0.0199212	0.0216387		8.8		
Aroclor 1260	A	250.00	332	0.0390342	0.0517066		32.8	+/-20	*
Aroclor-1260 (1)	A	250.00	335	0.0291201	0.0389917		34.0		
Aroclor-1260 (2)	A	250.00	334	0.0301181	0.0401856		33.6		
Aroclor-1260 (3)	A	250.00	334	0.0791351	0.1058134		33.6		
Aroclor-1260 (4)	A	250.00	316	0.0403003	0.0510249		26.4		
Aroclor-1260 (5)	A	250.00	341	0.0164974	0.0225172		36.4		
Aroclor 1260 [2C]	A	250.00	224	0.0617619	0.0508765		-10.3	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	260	0.0422283	0.0439222		4.0		
Aroclor-1260 (2) [2C]	A	250.00	176	0.1059643	0.0747031		-29.6		
Aroclor-1260 (3) [2C]	A	250.00	268	0.0282173	0.0302752		7.2		
Aroclor-1260 (4) [2C]	A	250.00	193	0.0706376	0.0546054		-22.8		
Decachlorobiphenyl	A	40.000	48.3	0.7333327	0.8854365		20.8	+/-20	
Tetrachlorometaxylene	A	40.000	39.8	1.1336710	1.1294420		-0.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	42.1	1.1358180	1.1955350		5.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.4	1.0966080	1.1075820		1.0	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042376ECD7.D
Data file 2: /230104.b/230104.b/01042376ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 05-JAN-2023 11:46
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	147369	5.707	0.000	101871	39.9	40.4	1.4	Tetrachloro-m-xylene
13.902	0.000	203383	14.128	0.000	173233	48.3	42.1	13.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	260959	-41.7
Hexabromobiphenyl	798898	459396	-42.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	183952	-26.2
Hexabromobiphenyl	362541	289800	-20.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.001	22711	260.9	1	7.270	0.000	23342	248.2
Aroclor-1016	2	7.675	-0.002	73759	262.4	2	7.871	0.000	38824	191.4
Aroclor-1016	3	7.811	-0.001	34727	272.7	3	8.069	0.000	21338	244.9
Aroclor-1016	4	8.422	0.001	22616	278.6	4	8.240	0.000	12439	271.6
Total Col1Ave (4 peaks):					268.6	Total Col2Ave (4 peaks):				239.0 RPD = 12
Corrected Ave (3 peaks):					265.3	Corrected Ave (3 peaks):				228.2 RPD = 15
CalAmt %D:					7.5	CalAmt %D:				-4.4
Aroclor-1260	1	11.055	-0.001	55977	334.7	1	11.661	0.000	39777	260.0
Aroclor-1260	2	11.372	-0.000	57691	333.6	2	11.924	0.000	67653	176.2
Aroclor-1260	3	11.746	-0.000	151907	334.3	3	12.442	0.000	27418	268.2
Aroclor-1260	4	12.148	-0.002	73252	316.5	4	12.506	0.000	49452	193.3
Aroclor-1260	5	12.254	-0.000	32326	341.2	NS	---			----
Total Col1Ave (5 peaks):					332.1	Total Col2Ave (4 peaks):				224.4 RPD = 39
Corrected Ave (4 peaks):					329.8	Corrected Ave (3 peaks):				209.8 RPD = 44*
CalAmt %D:					32.8	CalAmt %D:				-10.2

Total PCB Area Col1 (5.930 - 13.802) = 1510324 Col1 Total PCB = 0.6 ppm*

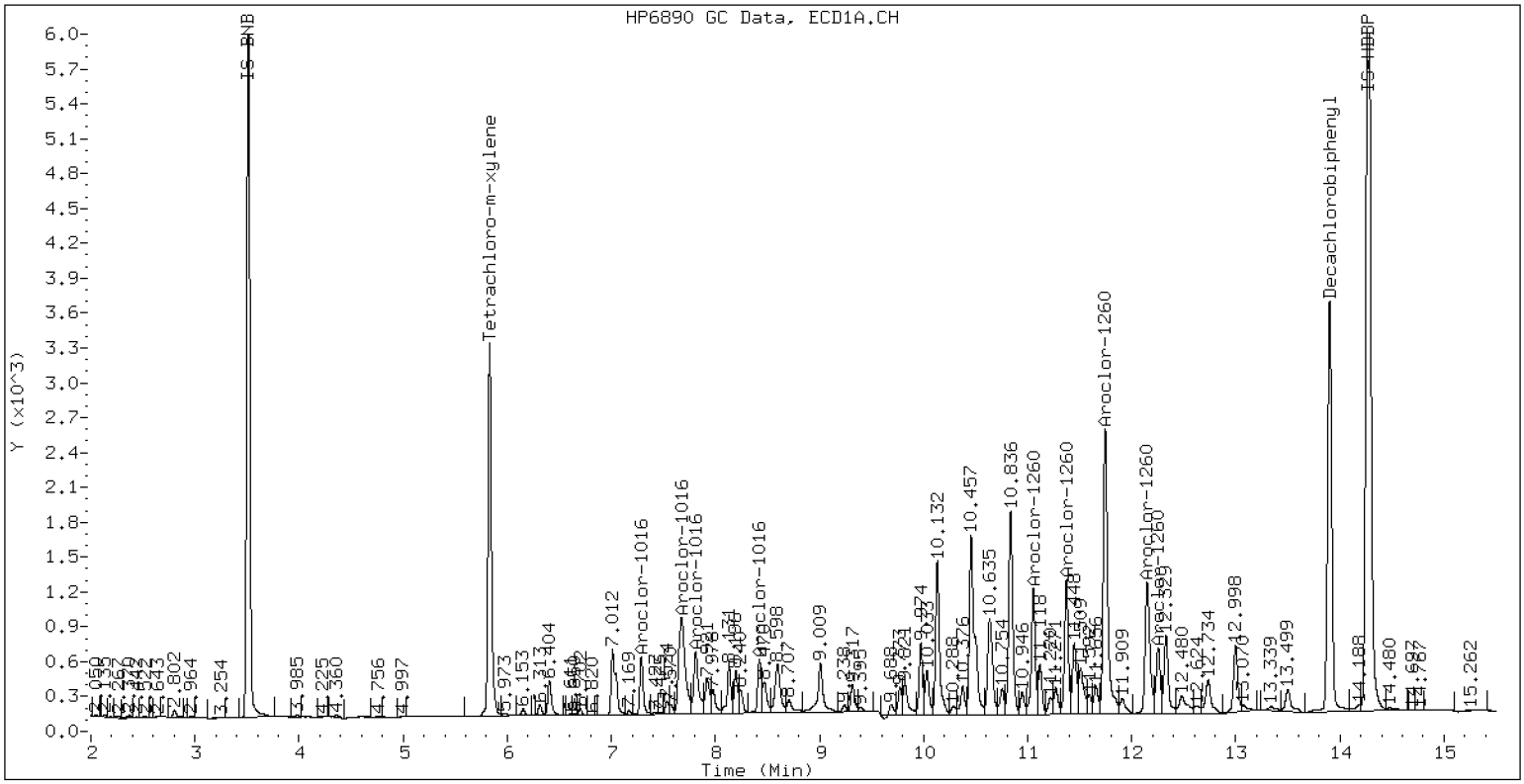
Total PCB Area Col2 (5.807 - 14.028) = 862586 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

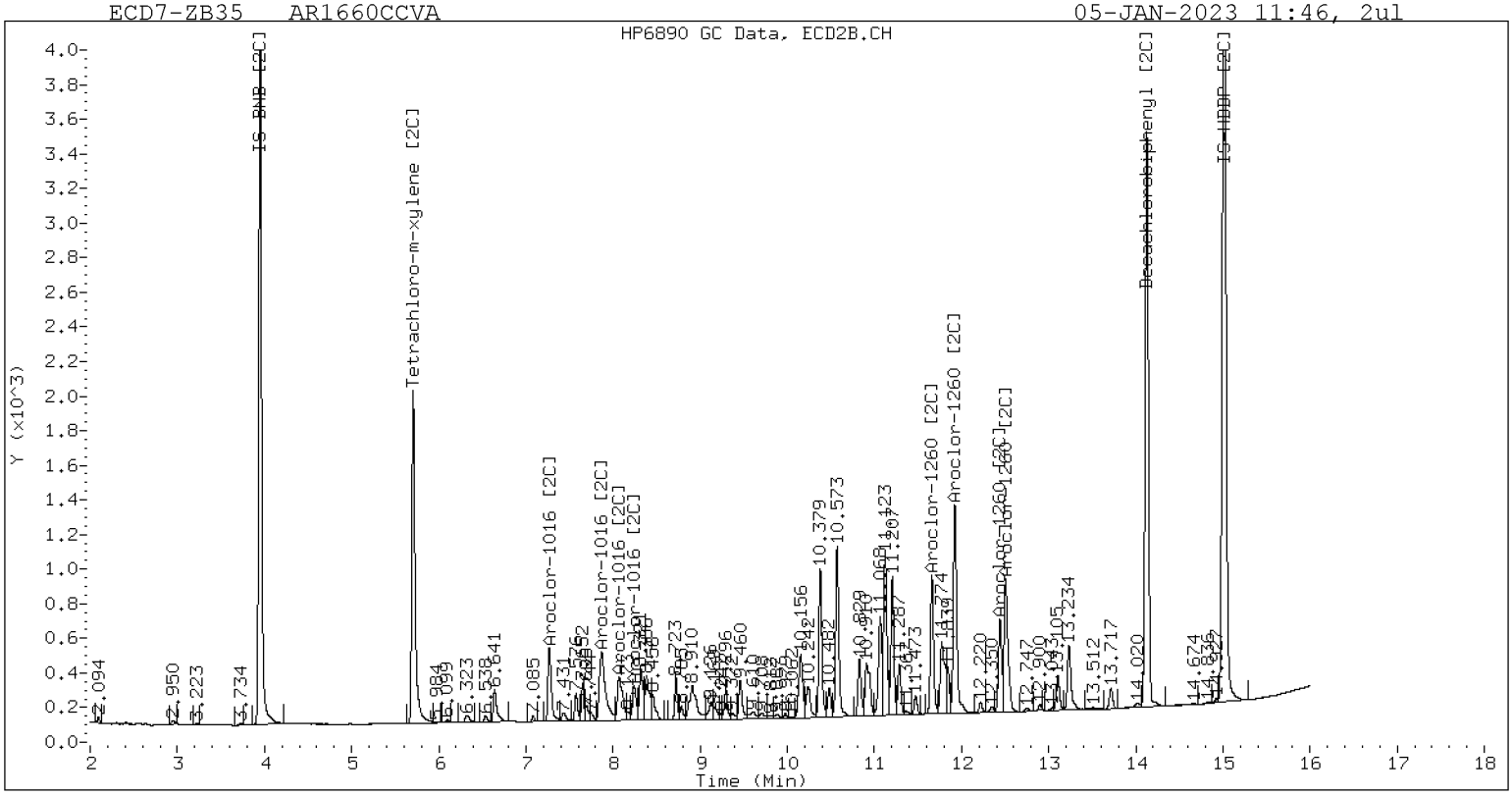
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 05-JAN-2023 11:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA 05-JAN-2023 11:46, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052331ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/05/23
Lab Sample ID:	SLA0096-CCV3	Injection Time:	22:56
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	291	0.0396000	0.0450782		16.3	+/-20
Aroclor-1242 (1)	A	250.00	275		0.0249733			
Aroclor-1242 (2)	A	250.00	270		0.0778022			
Aroclor-1242 (3)	A	250.00	323		0.0267476			
Aroclor-1242 (4)	A	250.00	295		0.0507896			
Aroclor 1242 [2C]	A	250.00	252	0.0391981	0.0366339		0.6	+/-20
Aroclor-1242 (1) [2C]	A	250.00	250		0.0338878			
Aroclor-1242 (2) [2C]	A	250.00	191		0.0548643			
Aroclor-1242 (3) [2C]	A	250.00	278		0.0258004			
Aroclor-1242 (4) [2C]	A	250.00	287		0.0319832			
Decachlorobiphenyl	A	40.000	43.1	0.7333327	0.7894548		7.8	+/-20
Tetrachlorometaxylene	A	40.000	37.5	1.1336710	1.0635780		-6.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.0	1.1358180	1.1369330		0.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.9	1.0966080	1.0403430		-5.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052331ECD7.D
Data file 2: /230105.b/230105.b/01052331ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 05-JAN-2023 22:56
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	163724	5.707	-0.003	113181	37.5	37.9	1.1	Tetrachloro-m-xylene
13.903	-0.001	171393	14.127	-0.000	167805	43.1	40.0	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	307874	-31.2
Hexabromobiphenyl	798898	434206	-45.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	217584	-12.6
Hexabromobiphenyl	362541	295189	-18.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	-0.006	24027	275.3	1	7.271	0.001	23042	250.2
Aroclor-1242	2	7.676	-0.009	74854	270.2	2	7.871	0.000	37305	190.8
Aroclor-1242	3	8.422	-0.007	25734	322.8	3	9.169	-0.003	17543	278.2
Aroclor-1242	4	9.021	-0.010	48865	295.2	4	9.590	-0.002	21747	286.9
Total Col1Ave (4 peaks):					290.9	Total Col2Ave (4 peaks):				251.5 RPD = 15
Corrected Ave (3 peaks):					280.2	Corrected Ave (3 peaks):				239.7 RPD = 16
CalAmt %D:					16.4	CalAmt %D:				0.6

Total PCB Area Col1 (5.933 - 13.804) = 715283 Col1 Total PCB = 0.2 ppm*

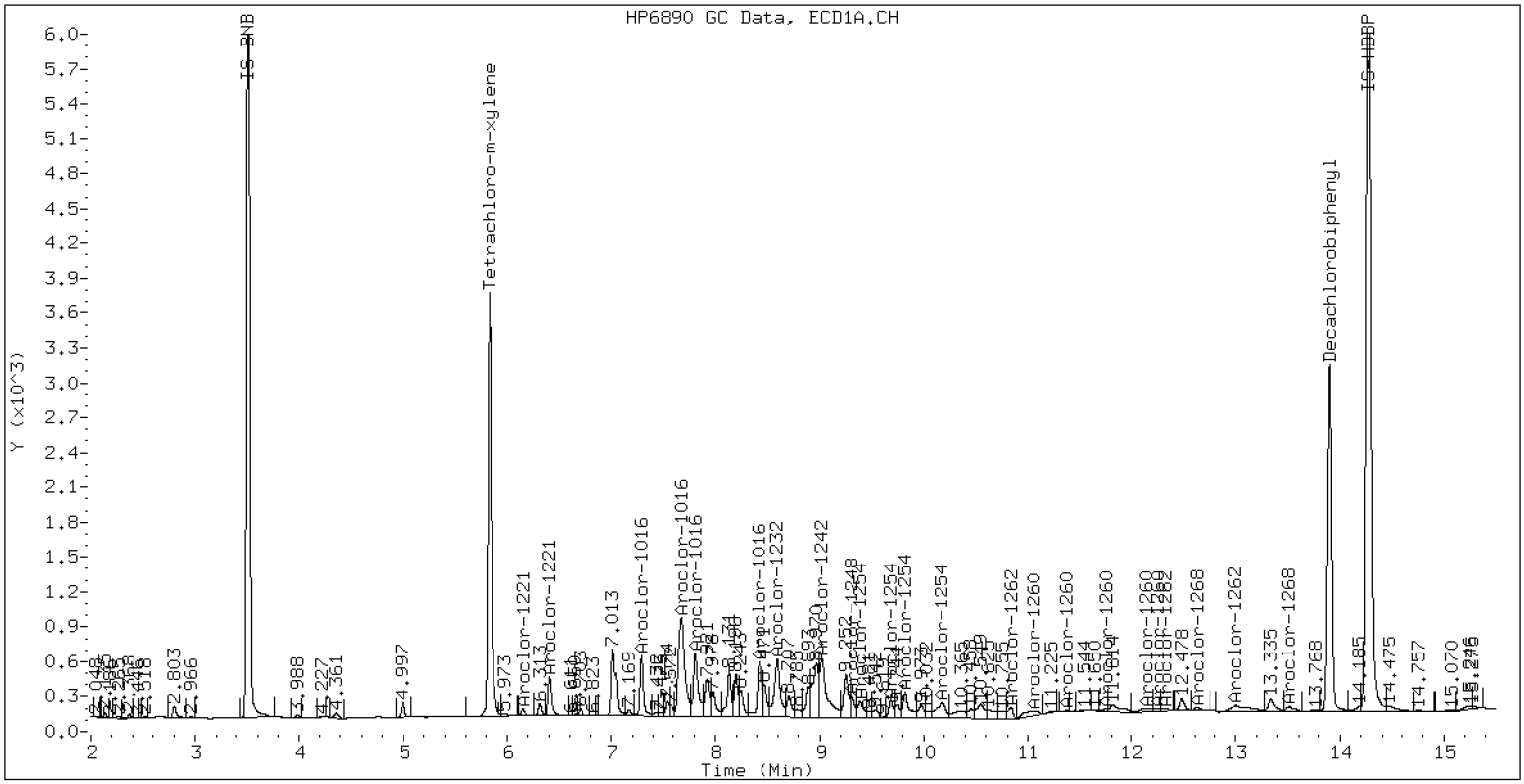
Total PCB Area Col2 (5.810 - 14.028) = 360103 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

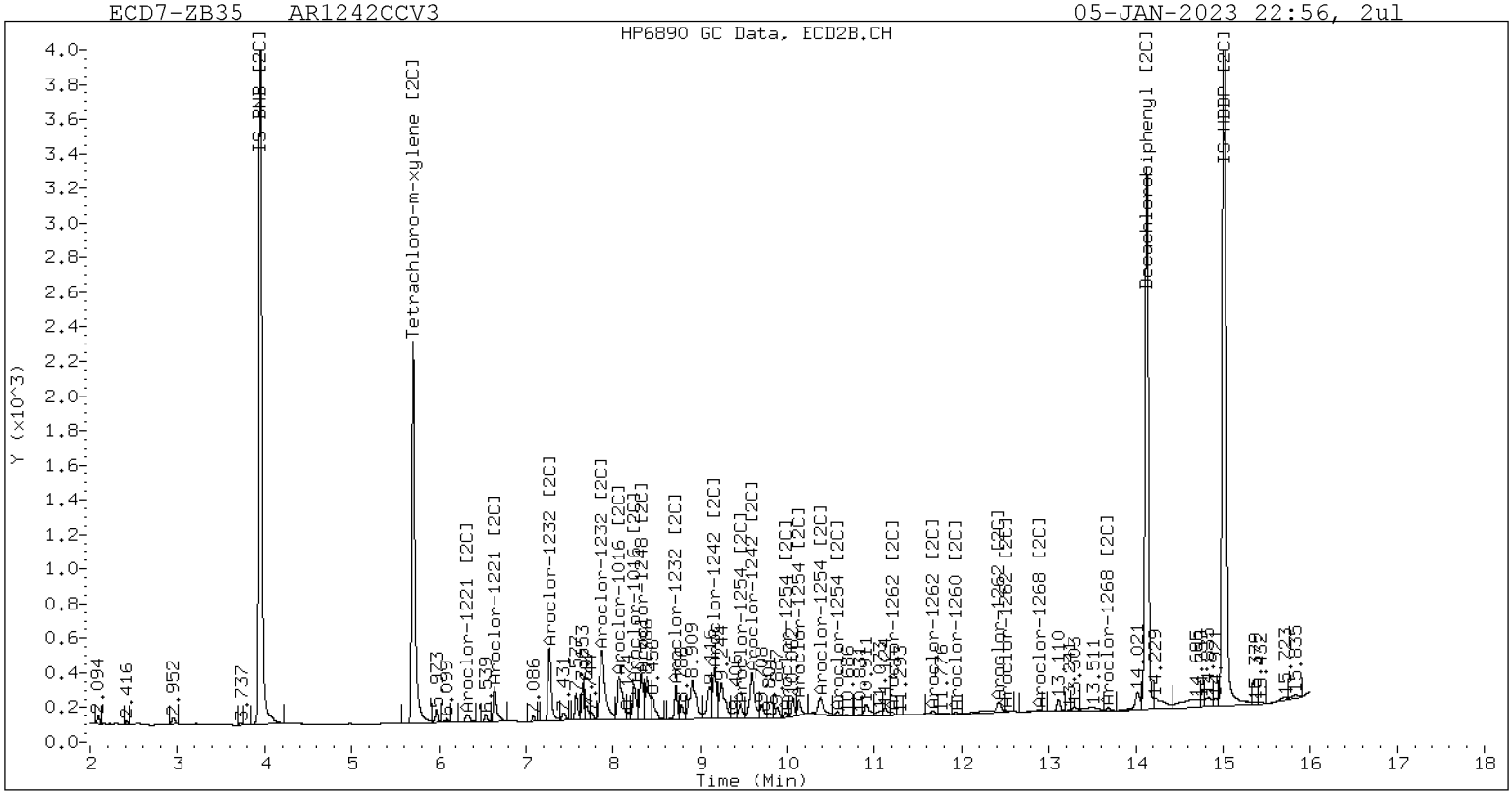
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 05-JAN-2023 22:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 05-JAN-2023 22:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052332ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/05/23
Lab Sample ID:	SLA0096-CCV4	Injection Time:	23:17
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	261	0.0441939	0.0458625		4.3	+/-20	
Aroclor-1016 (1)	A	250.00	263	0.0266860	0.0281223		5.2		
Aroclor-1016 (2)	A	250.00	255	0.0861572	0.0879929		2.0		
Aroclor-1016 (3)	A	250.00	266	0.0390425	0.0415352		6.4		
Aroclor-1016 (4)	A	250.00	259	0.0248899	0.0257998		3.6		
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0422703		-3.9	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0414171		1.2		
Aroclor-1016 (2) [2C]	A	250.00	196	0.0882154	0.0692220		-21.6		
Aroclor-1016 (3) [2C]	A	250.00	246	0.0378846	0.0372252		-1.6		
Aroclor-1016 (4) [2C]	A	250.00	266	0.0199212	0.0212170		6.4		
Aroclor 1260	A	250.00	342	0.0390342	0.0529682		36.6	+/-20	*
Aroclor-1260 (1)	A	250.00	351	0.0291201	0.0409381		40.4		
Aroclor-1260 (2)	A	250.00	344	0.0301181	0.0415128		37.6		
Aroclor-1260 (3)	A	250.00	337	0.0791351	0.1067779		34.8		
Aroclor-1260 (4)	A	250.00	326	0.0403003	0.0525313		30.4		
Aroclor-1260 (5)	A	250.00	350	0.0164974	0.0230812		40.0		
Aroclor 1260 [2C]	A	250.00	225	0.0617619	0.0512601		-10.0	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	259	0.0422283	0.0436993		3.6		
Aroclor-1260 (2) [2C]	A	250.00	179	0.1059643	0.0759951		-28.4		
Aroclor-1260 (3) [2C]	A	250.00	266	0.0282173	0.0299846		6.4		
Aroclor-1260 (4) [2C]	A	250.00	196	0.0706376	0.0553614		-21.6		
Decachlorobiphenyl	A	40.000	48.6	0.7333327	0.8906966		21.5	+/-20	
Tetrachlorometaxylene	A	40.000	39.5	1.1336710	1.1189950		-1.3	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.9	1.1358180	1.1621200		2.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1047020		0.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052332ECD7.D
Data file 2: /230105.b/230105.b/01052332ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 05-JAN-2023 23:17
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	132282	5.708	-0.002	90738	39.5	40.3	2.0	Tetrachloro-m-xylene
13.902	-0.002	180285	14.128	0.000	150924	48.6	40.9	17.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	236430	-47.2
Hexabromobiphenyl	798898	404818	-49.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	164276	-34.1
Hexabromobiphenyl	362541	259739	-28.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.289	-0.001	20778	263.5	1	7.271	-0.001	21262	253.1
Aroclor-1016	2	7.677	-0.003	65013	255.3	2	7.871	-0.001	35536	196.2
Aroclor-1016	3	7.811	-0.001	30688	266.0	3	8.070	-0.002	19110	245.6
Aroclor-1016	4	8.423	-0.001	19062	259.1	4	8.241	-0.001	10892	266.3
Total Col1Ave (4 peaks):					261.0	Total Col2Ave (4 peaks):				240.3 RPD = 8
Corrected Ave (3 peaks):					259.3	Corrected Ave (3 peaks):				231.7 RPD = 11
CalAmt %D:					4.4	CalAmt %D:				-3.9
Aroclor-1260	1	11.055	-0.001	51789	351.5	1	11.662	-0.000	35470	258.7
Aroclor-1260	2	11.371	-0.001	52516	344.6	2	11.925	-0.001	61684	179.3
Aroclor-1260	3	11.745	-0.001	135080	337.3	3	12.444	0.000	24338	265.7
Aroclor-1260	4	12.149	-0.001	66455	325.9	4	12.509	0.001	44936	195.9
Aroclor-1260	5	12.254	-0.002	29199	349.8	NS	---			----
Total Col1Ave (5 peaks):					341.8	Total Col2Ave (4 peaks):				224.9 RPD = 41*
Corrected Ave (4 peaks):					339.4	Corrected Ave (3 peaks):				211.3 RPD = 47*
CalAmt %D:					36.7	CalAmt %D:				-10.0

Total PCB Area Col1 (5.933 - 13.804) = 1407369 Col1 Total PCB = 0.6 ppm*

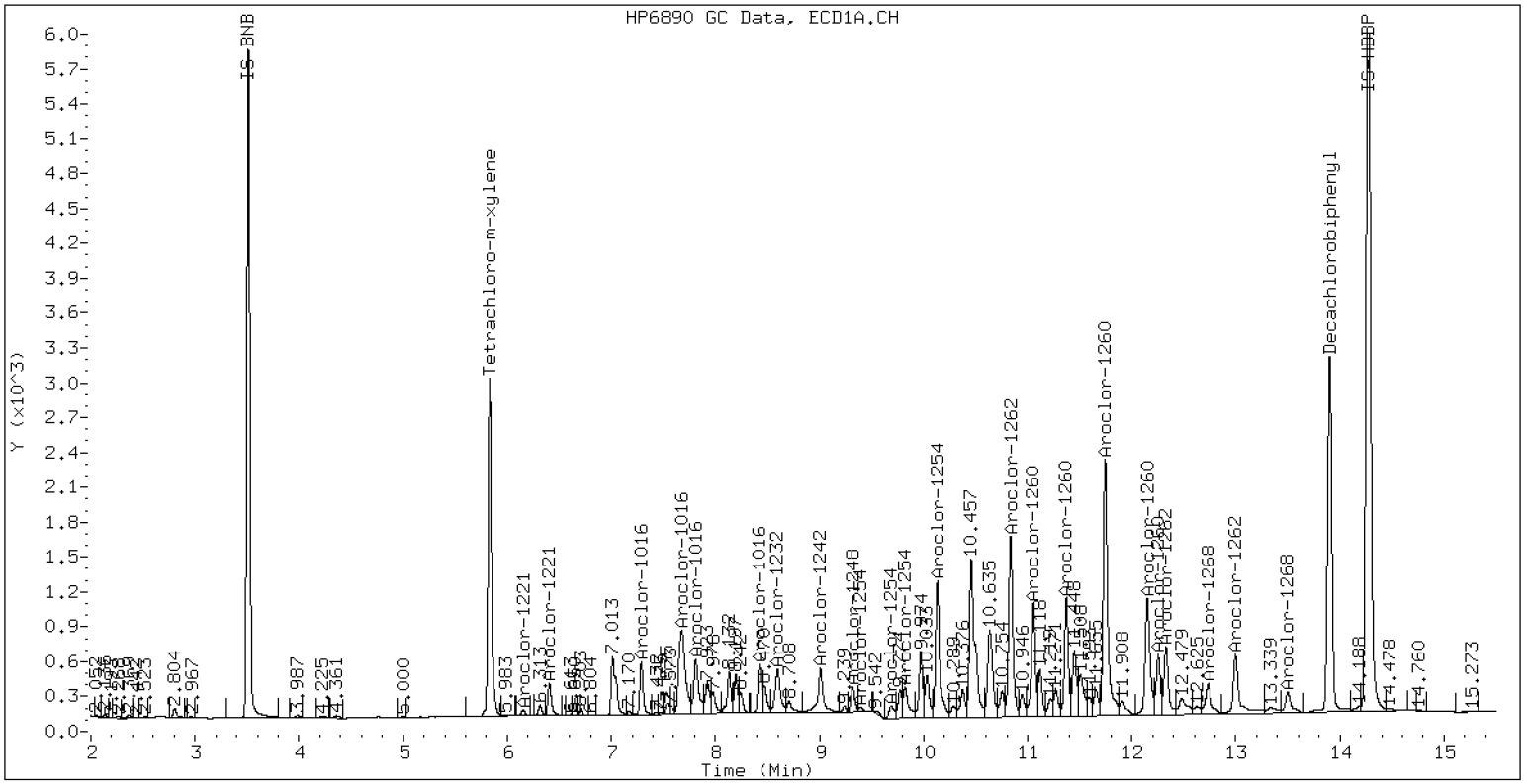
Total PCB Area Col2 (5.810 - 14.028) = 760963 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

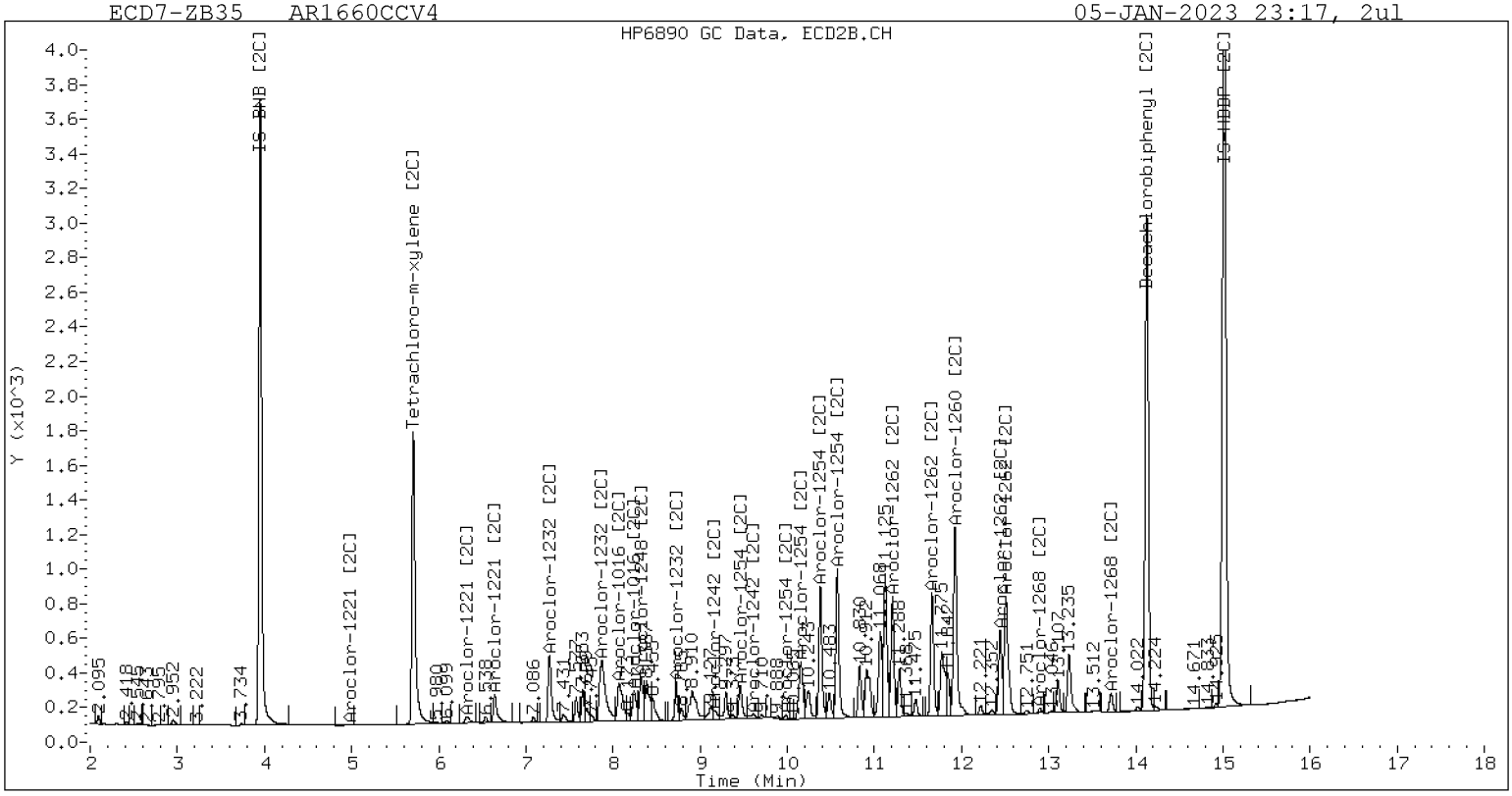
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 05-JAN-2023 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 05-JAN-2023 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052349ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV5	Injection Time:	05:15
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	299	0.0576965	0.0689166		19.8	+/-20
Aroclor-1254 (1)	A	250.00	263		0.0742393			
Aroclor-1254 (2)	A	250.00	340		0.0372293			
Aroclor-1254 (3)	A	250.00	242		0.0431067			
Aroclor-1254 (4)	A	250.00	320		0.1109556			
Aroclor-1254 (5)	A	250.00	332		0.0790521			
Aroclor 1254 [2C]	A	250.00	252	0.0638047	0.0658787		1.0	+/-20
Aroclor-1254 (1) [2C]	A	250.00	254		0.0523894			
Aroclor-1254 (2) [2C]	A	250.00	168		0.0278433			
Aroclor-1254 (3) [2C]	A	250.00	232		0.0826549			
Aroclor-1254 (4) [2C]	A	250.00	305		0.1125192			
Aroclor-1254 (5) [2C]	A	250.00	303		0.0539865			
Decachlorobiphenyl	A	40.000	42.8	0.7333327	0.7844985		7.0	+/-20
Tetrachlorometaxylene	A	40.000	38.5	1.1336710	1.0912030		-3.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.1	1.1358180	1.1663360		2.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.6	1.0966080	1.0314310		-6.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052349ECD7.D
Data file 2: /230105.b/230105.b/01052349ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 06-JAN-2023 05:15
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	180730	5.710	-0.000	115216	38.5	37.6	2.3	Tetrachloro-m-xylene
13.902	-0.002	331189	14.128	0.001	241543	42.8	41.1	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	331249	-26.0
Hexabromobiphenyl	798898	844333	5.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	223410	-10.3
Hexabromobiphenyl	362541	414191	14.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.315	0.002	76849	263.5	1	9.462	0.001	36576	253.9
Aroclor-1254	2	9.394	0.002	38538	339.8	2	9.979	0.001	19439	167.9
Aroclor-1254	3	9.687	0.002	44622	242.2	3	10.130	0.000	57706	231.8
Aroclor-1254	4	9.821	0.002	114856	319.9	4	10.379	0.001	78556	304.7
Aroclor-1254	5	10.177	0.002	81831	332.5	5	10.576	0.000	37691	303.1
Total Col1Ave (5 peaks):					299.6	Total Col2Ave (5 peaks):				252.3 RPD = 17
Corrected Ave (4 peaks):					289.5	Corrected Ave (4 peaks):				239.2 RPD = 19
CalAmt %D:					19.8	CalAmt %D:				0.9

Total PCB Area Col1 (5.933 - 13.804) = 1285342 Col1 Total PCB = 0.4 ppm*

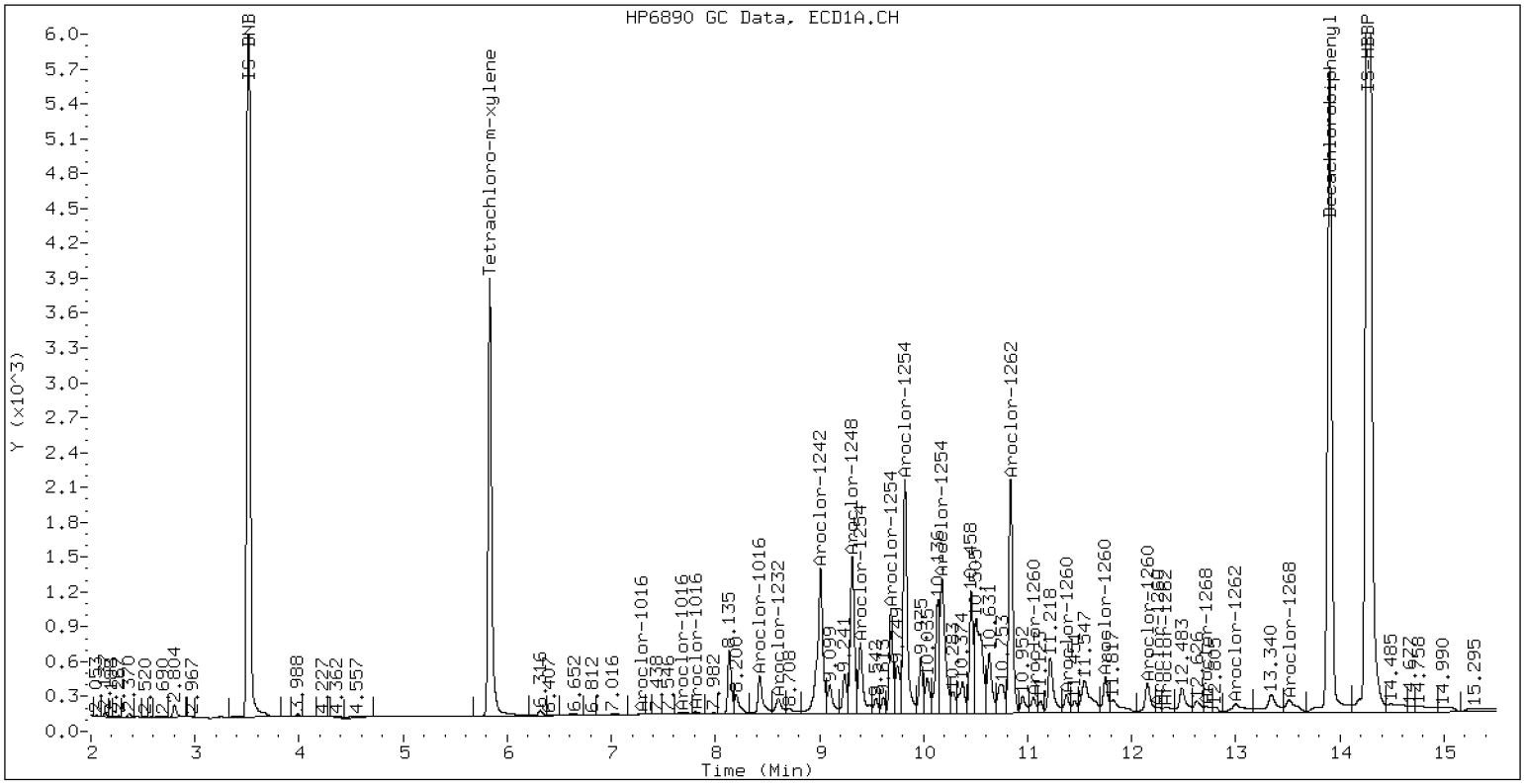
Total PCB Area Col2 (5.810 - 14.028) = 674711 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

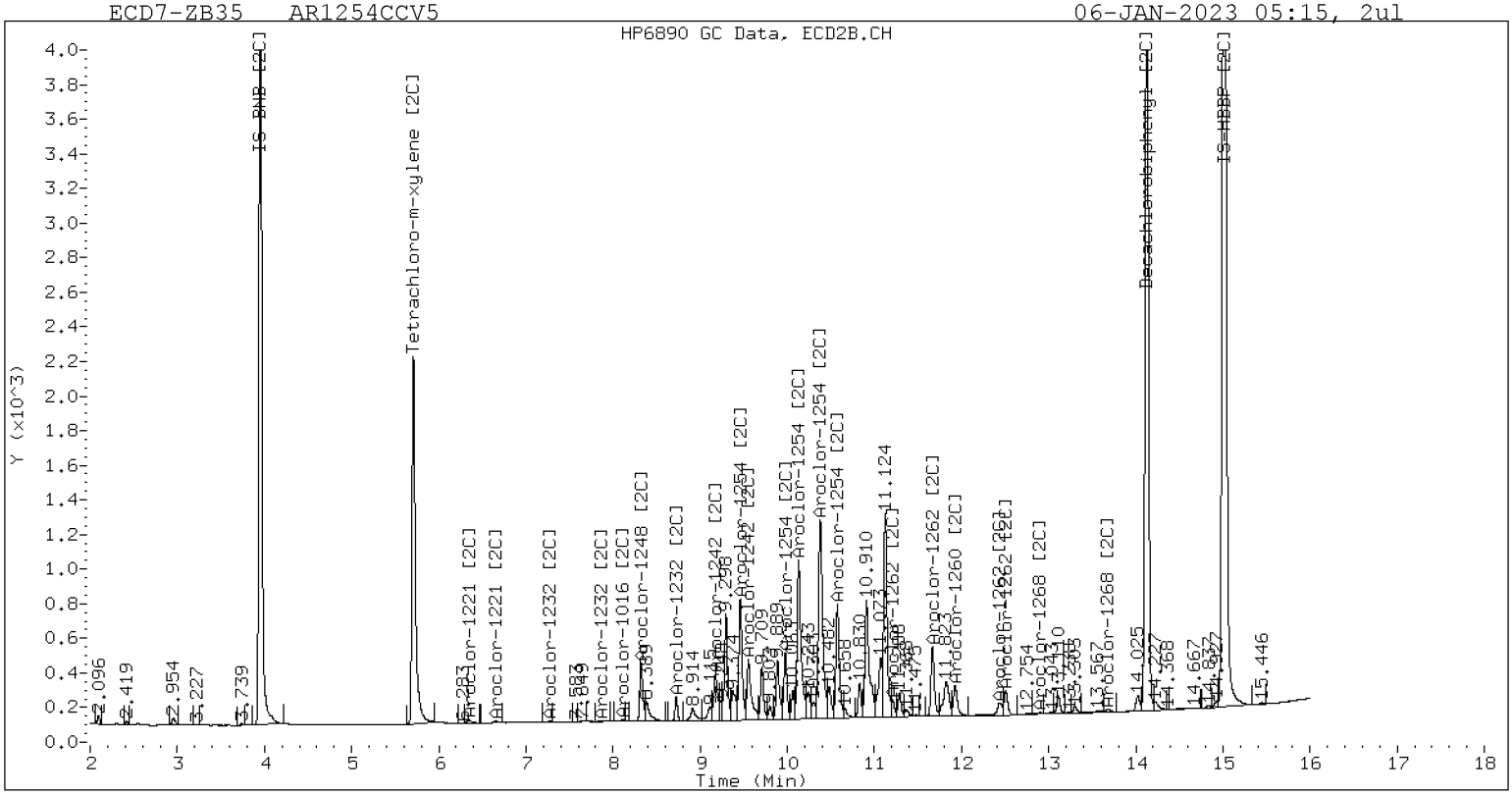
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 06-JAN-2023 05:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 06-JAN-2023 05:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052350ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV6	Injection Time:	05:36
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	264	0.0441939	0.0465175		5.7	+/-20	
Aroclor-1016 (1)	A	250.00	252	0.0266860	0.0268898		0.8		
Aroclor-1016 (2)	A	250.00	260	0.0861572	0.0894571		4.0		
Aroclor-1016 (3)	A	250.00	272	0.0390425	0.0425539		8.8		
Aroclor-1016 (4)	A	250.00	273	0.0248899	0.0271691		9.2		
Aroclor 1016 [2C]	A	250.00	244	0.0467310	0.0429987		-2.4	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0413365		1.2		
Aroclor-1016 (2) [2C]	A	250.00	201	0.0882154	0.0709622		-19.6		
Aroclor-1016 (3) [2C]	A	250.00	252	0.0378846	0.0382123		0.8		
Aroclor-1016 (4) [2C]	A	250.00	270	0.0199212	0.0214840		8.0		
Aroclor 1260	A	250.00	268	0.0390342	0.0416223		7.2	+/-20	
Aroclor-1260 (1)	A	250.00	267	0.0291201	0.0311438		6.8		
Aroclor-1260 (2)	A	250.00	266	0.0301181	0.0321159		6.4		
Aroclor-1260 (3)	A	250.00	267	0.0791351	0.0846476		6.8		
Aroclor-1260 (4)	A	250.00	258	0.0403003	0.0415749		3.2		
Aroclor-1260 (5)	A	250.00	282	0.0164974	0.0186292		12.8		
Aroclor 1260 [2C]	A	250.00	199	0.0617619	0.0448825		-20.5	+/-20	*
Aroclor-1260 (1) [2C]	A	250.00	232	0.0422283	0.0391729		-7.2		
Aroclor-1260 (2) [2C]	A	250.00	154	0.1059643	0.0654669		-38.4		
Aroclor-1260 (3) [2C]	A	250.00	239	0.0282173	0.0269576		-4.4		
Aroclor-1260 (4) [2C]	A	250.00	170	0.0706376	0.0479327		-32.0		
Decachlorobiphenyl	A	40.000	44.8	0.7333327	0.8222776		12.0	+/-20	
Tetrachlorometaxylene	A	40.000	38.9	1.1336710	1.1014250		-2.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1510040		1.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.4	1.0966080	1.1081940		1.0	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052350ECD7.D
Data file 2: /230105.b/230105.b/01052350ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 06-JAN-2023 05:36
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	136265	5.709	-0.001	92056	38.9	40.4	3.9	Tetrachloro-m-xylene
13.903	-0.001	259193	14.128	0.001	186206	44.9	40.5	10.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	247434	-44.7
Hexabromobiphenyl	798898	630427	-21.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	166137	-33.3
Hexabromobiphenyl	362541	323554	-10.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.000	20792	251.9	1	7.271	-0.001	21461	252.6
Aroclor-1016	2	7.678	-0.002	69171	259.6	2	7.874	0.002	36842	201.1
Aroclor-1016	3	7.813	0.001	32904	272.5	3	8.071	-0.001	19839	252.2
Aroclor-1016	4	8.424	0.000	21008	272.9	4	8.243	0.001	11154	269.6
Total Col1Ave (4 peaks):					264.2	Total Col2Ave (4 peaks):				243.9 RPD = 8
Corrected Ave (3 peaks):					261.3	Corrected Ave (3 peaks):				235.3 RPD = 10
CalAmt %D:					5.7	CalAmt %D:				-2.4
Aroclor-1260	1	11.056	-0.000	61356	267.4	1	11.663	0.000	39608	231.9
Aroclor-1260	2	11.372	0.000	63271	266.6	2	11.925	-0.001	66194	154.5
Aroclor-1260	3	11.746	0.000	166763	267.4	3	12.444	0.000	27257	238.8
Aroclor-1260	4	12.151	0.000	81906	257.9	4	12.509	0.001	48465	169.6
Aroclor-1260	5	12.255	-0.000	36701	282.3	NS	---			----
Total Col1Ave (5 peaks):					268.3	Total Col2Ave (4 peaks):				198.7 RPD = 30
Corrected Ave (4 peaks):					264.8	Corrected Ave (3 peaks):				185.3 RPD = 35
CalAmt %D:					7.3	CalAmt %D:				-20.5

Total PCB Area Col1 (5.933 - 13.804) = 1689358 Col1 Total PCB = 0.7 ppm*

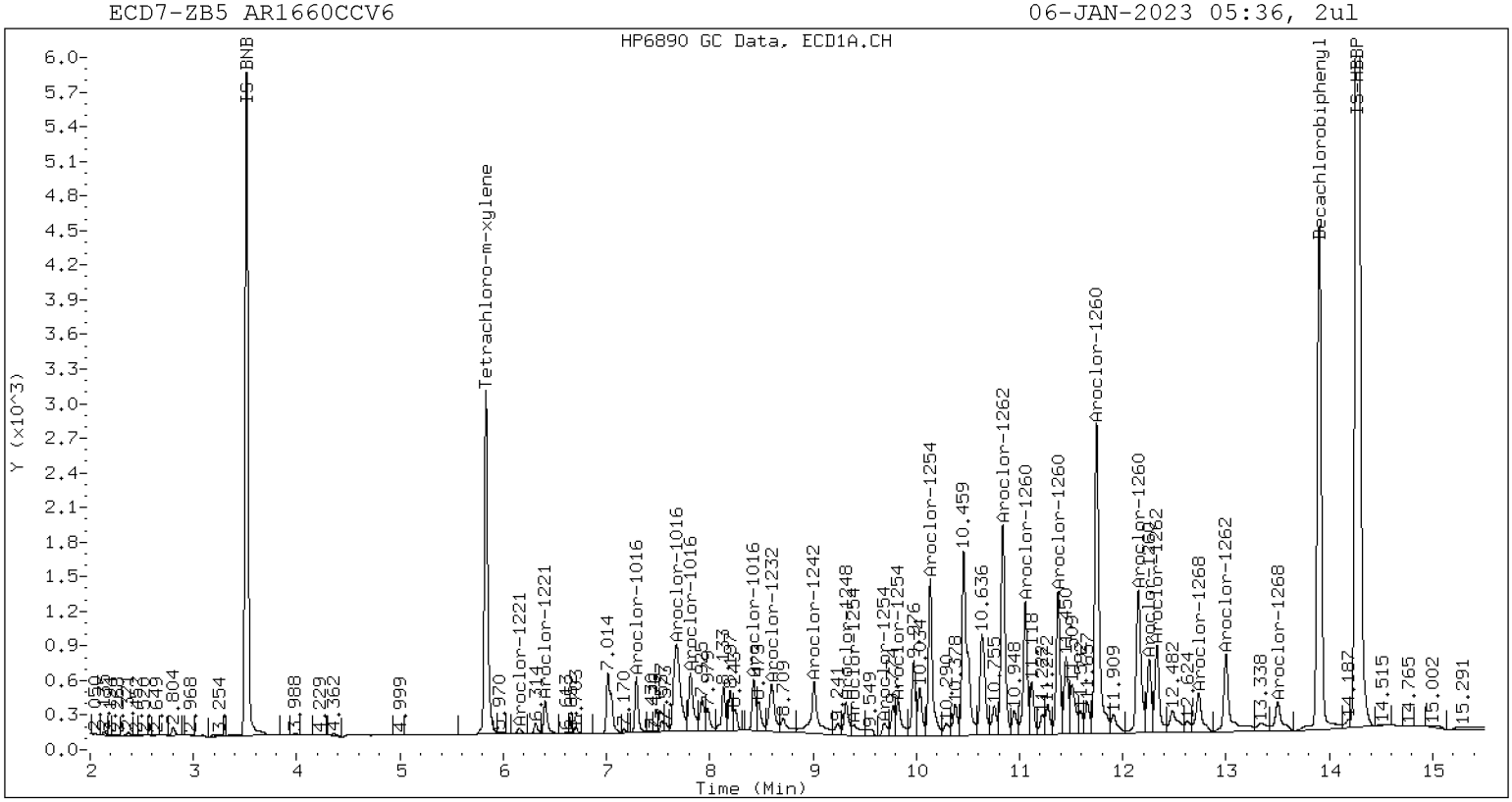
Total PCB Area Col2 (5.810 - 14.028) = 829995 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

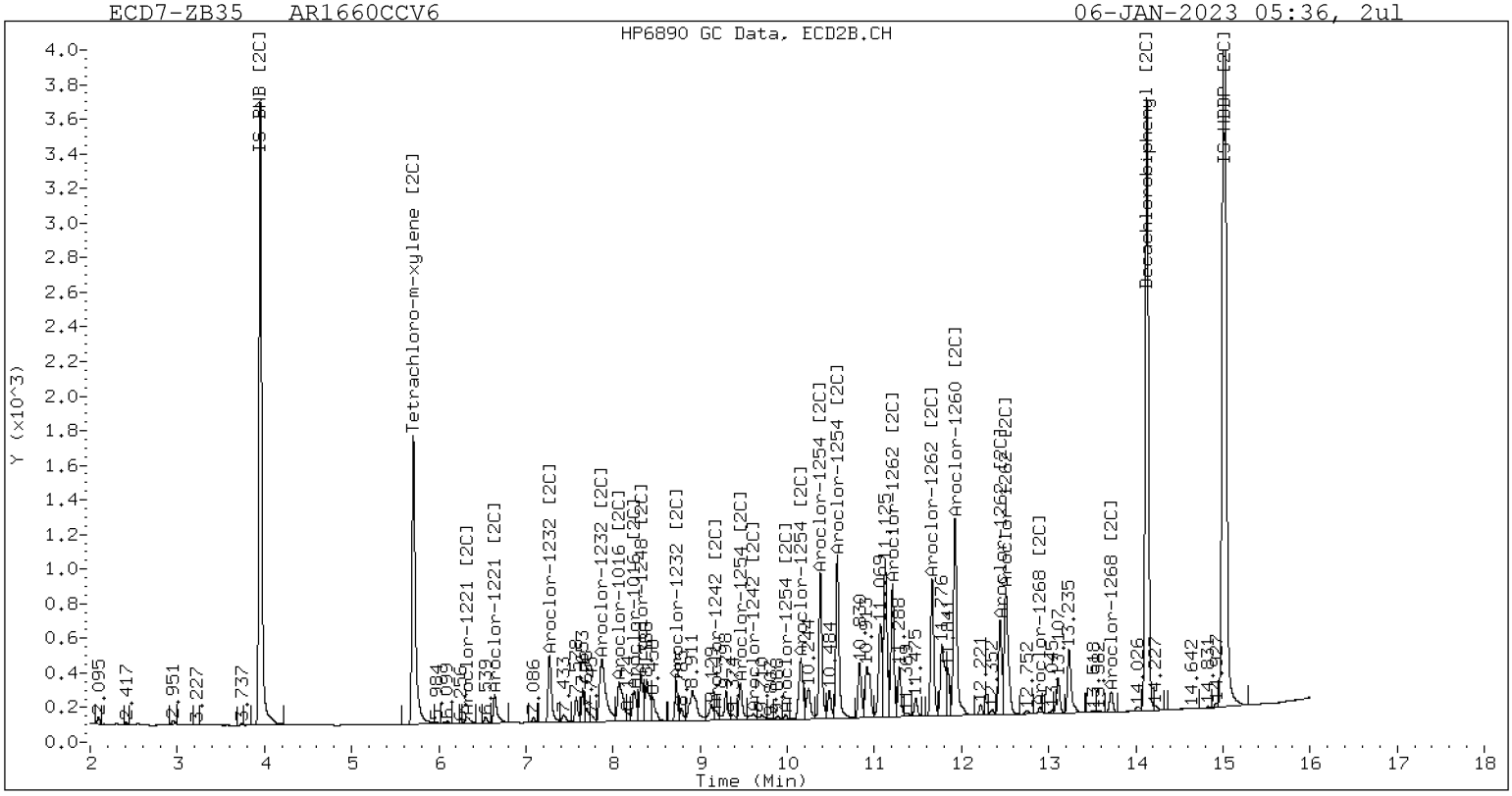
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 06-JAN-2023 05:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 06-JAN-2023 05:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052361ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV7	Injection Time:	09:28
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	251	0.0490062	0.0505131		0.2	+/-20
Aroclor-1248 (1)	A	250.00	273		0.0375840			
Aroclor-1248 (2)	A	250.00	284		0.0499930			
Aroclor-1248 (3)	A	250.00	283		0.0894522			
Aroclor-1248 (4)	A	250.00	162		0.0250231			
Aroclor 1248 [2C]	A	250.00	240	0.0394876	0.0382044		-4.2	+/-20
Aroclor-1248 (1) [2C]	A	250.00	253		0.0331055			
Aroclor-1248 (2) [2C]	A	250.00	187		0.0256901			
Aroclor-1248 (3) [2C]	A	250.00	265		0.0442979			
Aroclor-1248 (4) [2C]	A	250.00	253		0.0497239			
Decachlorobiphenyl	A	40.000	43.7	0.7333327	0.8018235		9.3	+/-20
Tetrachlorometaxylene	A	40.000	36.6	1.1336710	1.0389380		-8.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1523420		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.1	1.0966080	1.0443940		-4.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052361ECD7.D
Data file 2: /230105.b/230105.b/01052361ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 06-JAN-2023 09:28
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	159746	5.708	-0.002	113394	36.7	38.1	3.8	Tetrachloro-m-xylene
13.903	-0.001	147922	14.127	-0.000	149986	43.7	40.6	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	307518	-31.3
Hexabromobiphenyl	798898	368964	-53.8 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	217148	-12.8
Hexabromobiphenyl	362541	260315	-28.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.000	36118	273.2	1	8.321	0.000	22465	253.2
Aroclor-1248	2	8.598	-0.001	48043	284.6	2	8.727	0.000	17433	186.8
Aroclor-1248	3	9.017	0.001	85963	283.1	3	9.173	0.000	30060	264.9
Aroclor-1248	4	9.312	0.000	24047	161.6	4	9.593	0.000	33742	253.3
Total Col1Ave (4 peaks):					250.6	Total Col2Ave (4 peaks):				239.6 RPD = 5
Corrected Ave (3 peaks):					239.3	Corrected Ave (3 peaks):				231.1 RPD = 3
CalAmt %D:					0.2	CalAmt %D:				-4.2

Total PCB Area Col1 (5.933 - 13.804) = 750323 Col1 Total PCB = 0.3 ppm*

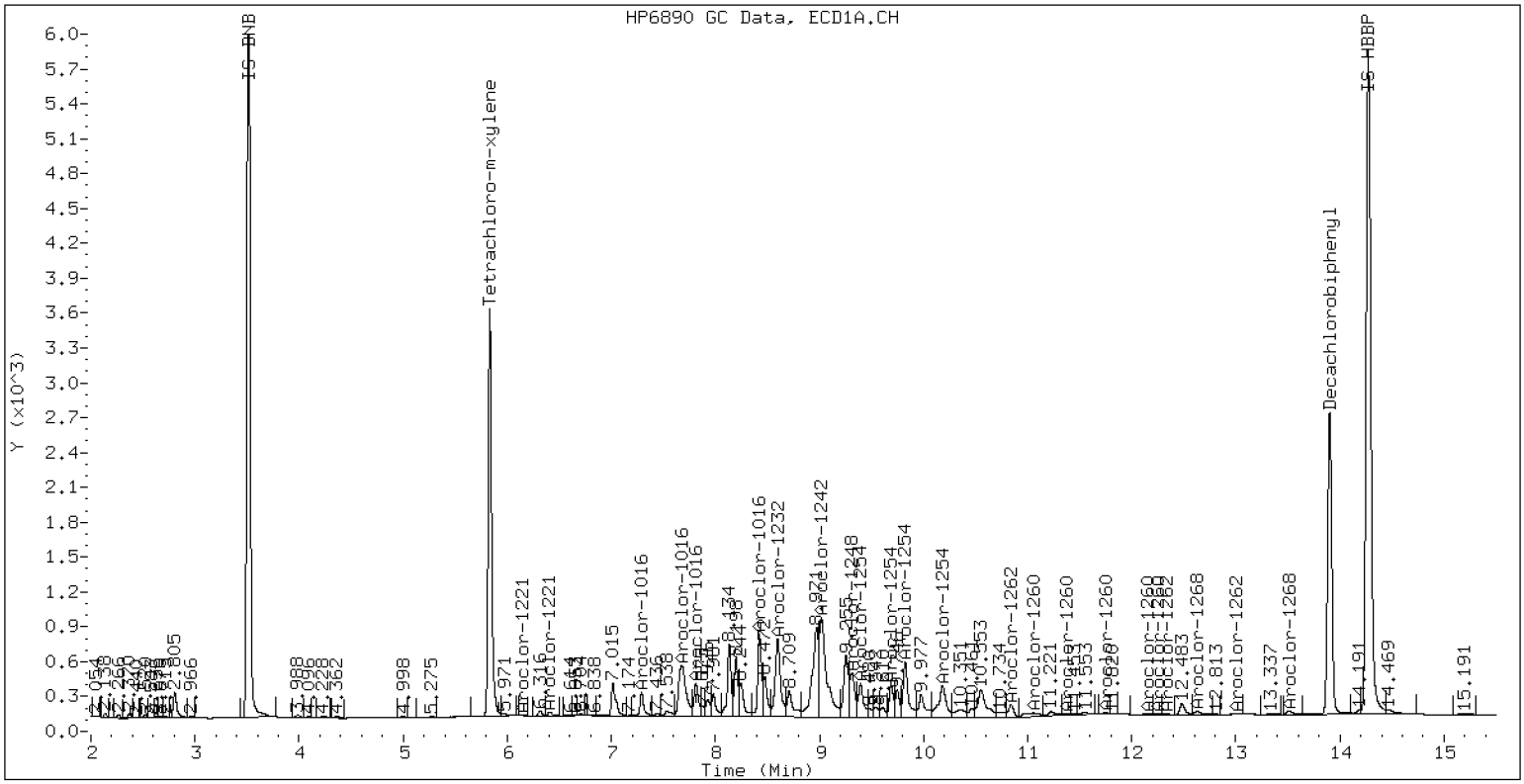
Total PCB Area Col2 (5.810 - 14.028) = 414792 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

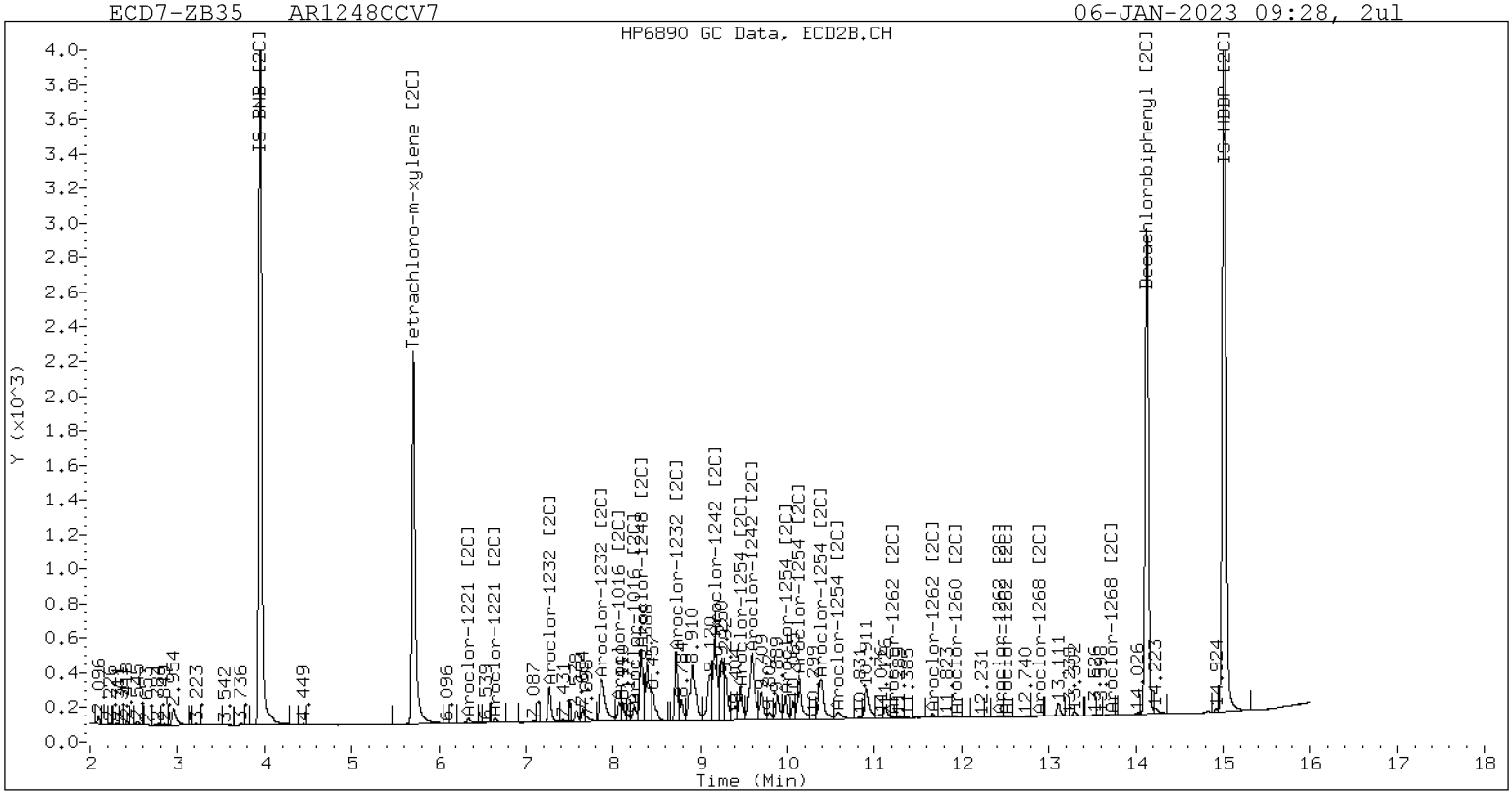
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 06-JAN-2023 09:28, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 06-JAN-2023 09:28, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052362ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV8	Injection Time:	09:49
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	305	0.0441939	0.0521115		22.1	+/-20 *
Aroclor-1016 (1)	A	250.00	292	0.0266860	0.0311495		16.8	
Aroclor-1016 (2)	A	250.00	277	0.0861572	0.0954073		10.8	
Aroclor-1016 (3)	A	250.00	300	0.0390425	0.0468589		20.0	
Aroclor-1016 (4)	A	250.00	352	0.0248899	0.0350304		40.8	
Aroclor 1016 [2C]	A	250.00	249	0.0467310	0.0436814		-0.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	259	0.0409030	0.0423757		3.6	
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0714483		-19.2	
Aroclor-1016 (3) [2C]	A	250.00	256	0.0378846	0.0388490		2.4	
Aroclor-1016 (4) [2C]	A	250.00	277	0.0199212	0.0220527		10.8	
Aroclor 1260	A	250.00	357	0.0390342	0.0551876		42.8	+/-20 *
Aroclor-1260 (1)	A	250.00	382	0.0291201	0.0445404		52.8	
Aroclor-1260 (2)	A	250.00	370	0.0301181	0.0445712		48.0	
Aroclor-1260 (3)	A	250.00	347	0.0791351	0.1099276		38.8	
Aroclor-1260 (4)	A	250.00	332	0.0403003	0.0535538		32.8	
Aroclor-1260 (5)	A	250.00	354	0.0164974	0.0233450		41.6	
Aroclor 1260 [2C]	A	250.00	249	0.0617619	0.0572203		-0.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	277	0.0422283	0.0468244		10.8	
Aroclor-1260 (2) [2C]	A	250.00	206	0.1059643	0.0871289		-17.6	
Aroclor-1260 (3) [2C]	A	250.00	291	0.0282173	0.0328305		16.4	
Aroclor-1260 (4) [2C]	A	250.00	220	0.0706376	0.0620974		-12.0	
Decachlorobiphenyl	A	40.000	45.3	0.7333327	0.8314108		13.3	+/-20
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1099130		-2.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.6	1.1358180	1.1808740		4.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1044110		0.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052362ECD7.D
Data file 2: /230105.b/230105.b/01052362ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 06-JAN-2023 09:49
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.002	121399	5.708	-0.002	83975	39.2	40.3	2.8	Tetrachloro-m-xylene
13.902	-0.002	138496	14.127	-0.001	128521	45.3	41.6	8.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	218754	-51.1 <-
Hexabromobiphenyl	798898	333159	-58.3 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	152072	-38.9
Hexabromobiphenyl	362541	217671	-40.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.001	21294	291.8	1	7.272	-0.000	20138	259.0
Aroclor-1016	2	7.677	-0.003	65221	276.8	2	7.872	-0.001	33954	202.5
Aroclor-1016	3	7.812	-0.000	32033	300.1	3	8.071	-0.000	18462	256.4
Aroclor-1016	4	8.424	-0.000	23947	351.9	4	8.243	0.000	10480	276.7
Total Col1Ave (4 peaks):					305.1	Total Col2Ave (4 peaks):				248.6 RPD = 20
Corrected Ave (3 peaks):					289.6	Corrected Ave (3 peaks):				239.3 RPD = 19
CalAmt %D:					22.1	CalAmt %D:				-0.5
Aroclor-1260	1	11.056	0.000	46372	382.4	1	11.662	-0.000	31851	277.2
Aroclor-1260	2	11.372	0.000	46404	370.0	2	11.925	-0.001	59267	205.6
Aroclor-1260	3	11.746	0.000	114448	347.3	3	12.443	0.000	22332	290.9
Aroclor-1260	4	12.150	-0.000	55756	332.2	4	12.508	0.000	42240	219.8
Aroclor-1260	5	12.255	-0.001	24305	353.8	NS	---			----
Total Col1Ave (5 peaks):					357.1	Total Col2Ave (4 peaks):				248.4 RPD = 36
Corrected Ave (4 peaks):					350.8	Corrected Ave (3 peaks):				234.2 RPD = 40
CalAmt %D:					42.8	CalAmt %D:				-0.7

Total PCB Area Col1 (5.933 - 13.804) = 1362111 Col1 Total PCB = 0.7 ppm*

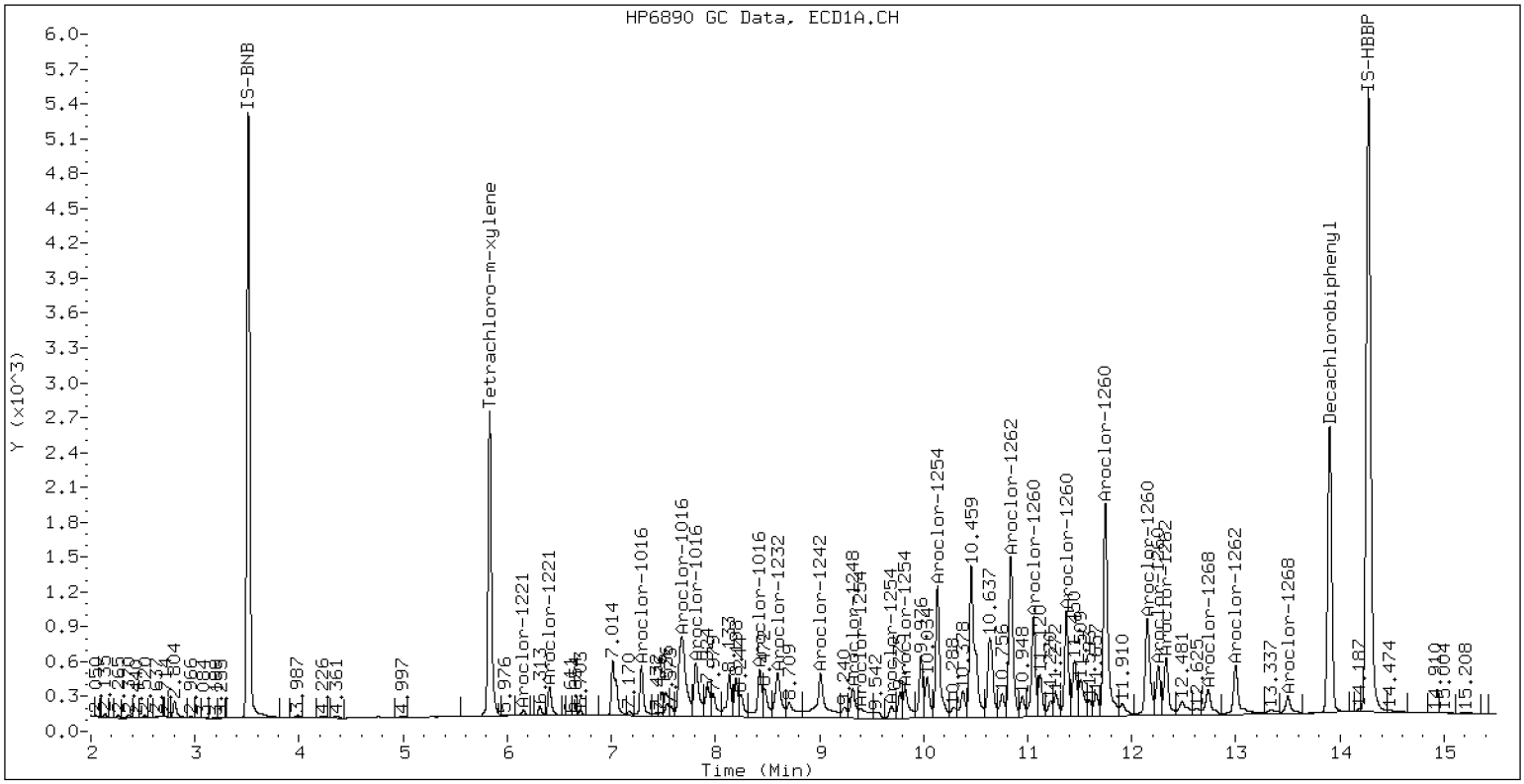
Total PCB Area Col2 (5.810 - 14.028) = 716935 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

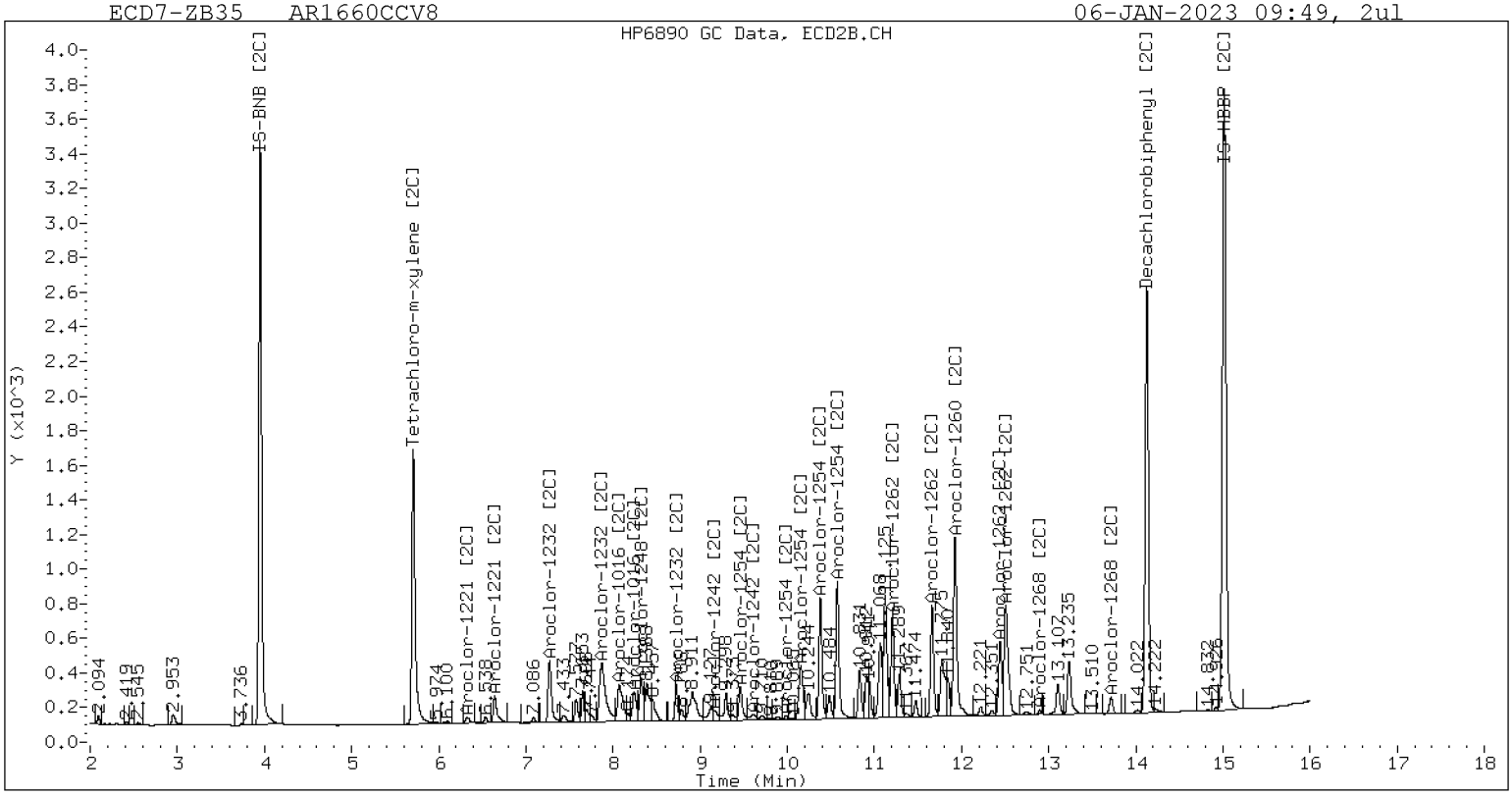
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 06-JAN-2023 09:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 06-JAN-2023 09:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052372ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV9	Injection Time:	13:19
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	326	0.0396000	0.0495541		30.3	+/-20 *
Aroclor-1242 (1)	A	250.00	318		0.0288118			
Aroclor-1242 (2)	A	250.00	281		0.0810592			
Aroclor-1242 (3)	A	250.00	368		0.0304877			
Aroclor-1242 (4)	A	250.00	336		0.0578576			
Aroclor 1242 [2C]	A	250.00	261	0.0391981	0.0379342		4.2	+/-20
Aroclor-1242 (1) [2C]	A	250.00	257		0.0348656			
Aroclor-1242 (2) [2C]	A	250.00	197		0.0567495			
Aroclor-1242 (3) [2C]	A	250.00	291		0.0270117			
Aroclor-1242 (4) [2C]	A	250.00	297		0.0331101			
Decachlorobiphenyl	A	40.000	46.6	0.7333327	0.8546401		16.5	+/-20
Tetrachlorometaxylene	A	40.000	38.7	1.1336710	1.0979570		-3.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.3	1.1358180	1.1169180		-1.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.6	1.0966080	1.0304530		-6.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052372ECD7.D
Data file 2: /230105.b/230105.b/01052372ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 06-JAN-2023 13:19
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	165931	5.708	-0.001	108195	38.7	37.6	3.0	Tetrachloro-m-xylene
13.901	-0.002	244886	14.127	-0.000	180408	46.6	39.3	16.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	302254	-32.5
Hexabromobiphenyl	798898	573074	-28.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	209995	-15.7
Hexabromobiphenyl	362541	323046	-10.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1242	1	7.289	-0.005	27214	317.7	1	7.272	0.001	22880	257.4	
Aroclor-1242	2	7.677	-0.008	76564	281.5	2	7.871	0.001	37241	197.4	
Aroclor-1242	3	8.423	-0.007	28797	367.9	3	9.170	-0.002	17726	291.2	
Aroclor-1242	4	9.022	-0.009	54649	336.3	4	9.591	-0.001	21728	297.0	
Total Col1Ave (4 peaks):					325.8	Total Col2Ave (4 peaks):				260.8	RPD = 22
Corrected Ave (3 peaks):					311.8	Corrected Ave (3 peaks):				248.7	RPD = 23
CalAmt %D:					30.3	CalAmt %D:				4.3	

Total PCB Area Col1 (5.933 - 13.804) = 946282 Col1 Total PCB = 0.3 ppm*

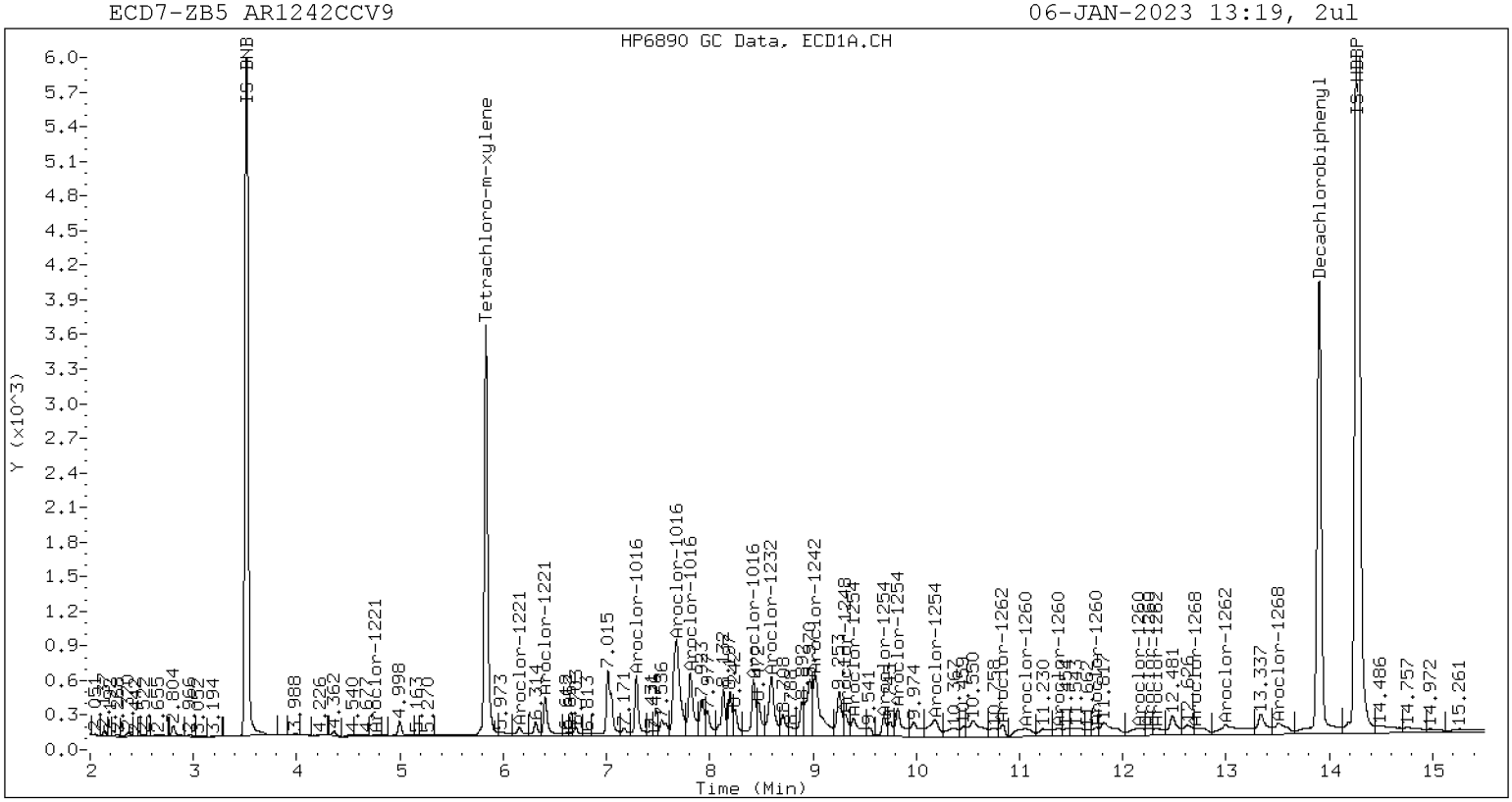
Total PCB Area Col2 (5.810 - 14.028) = 360229 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

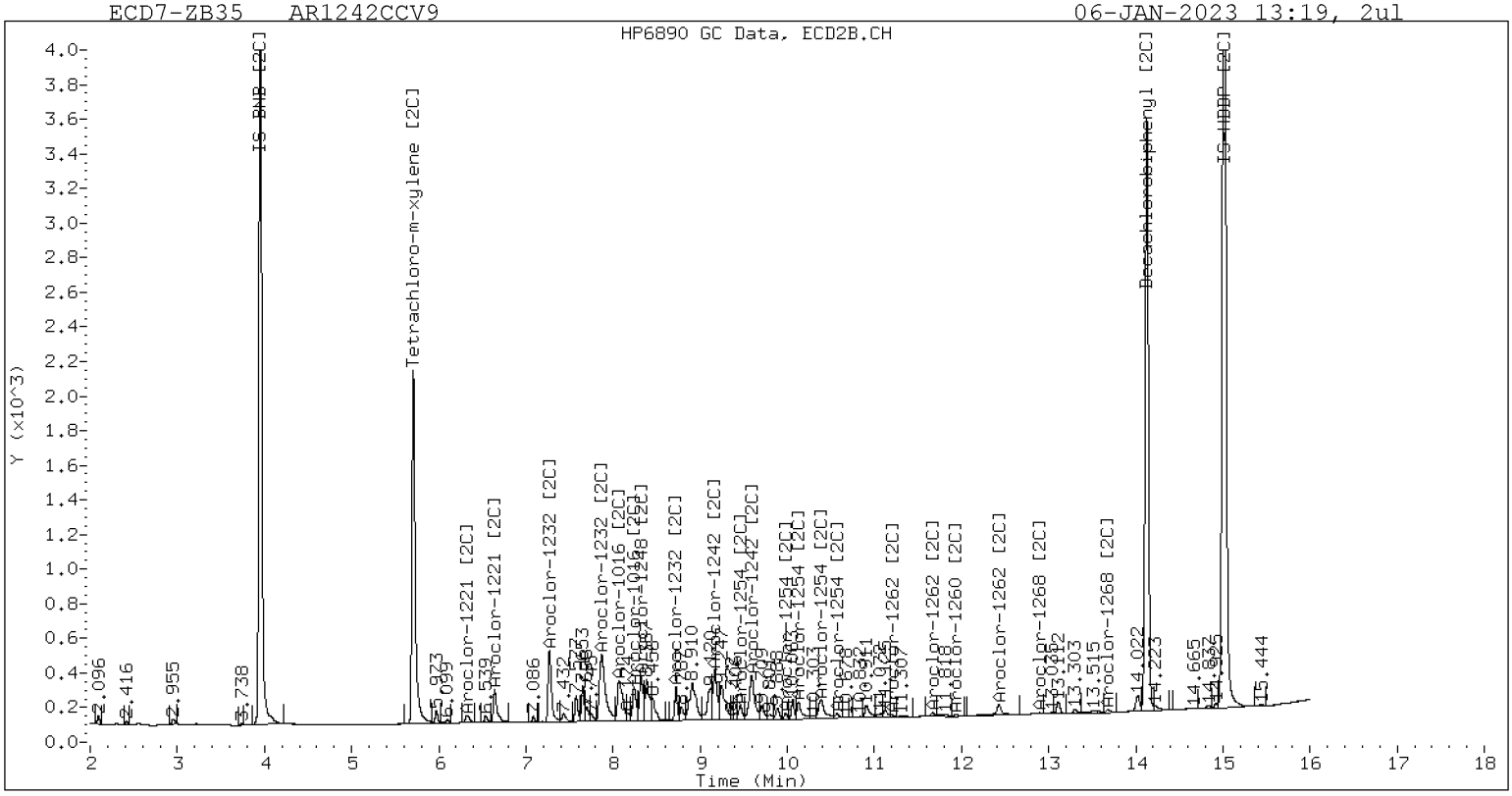
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 06-JAN-2023 13:19, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV9 06-JAN-2023 13:19, 2ul

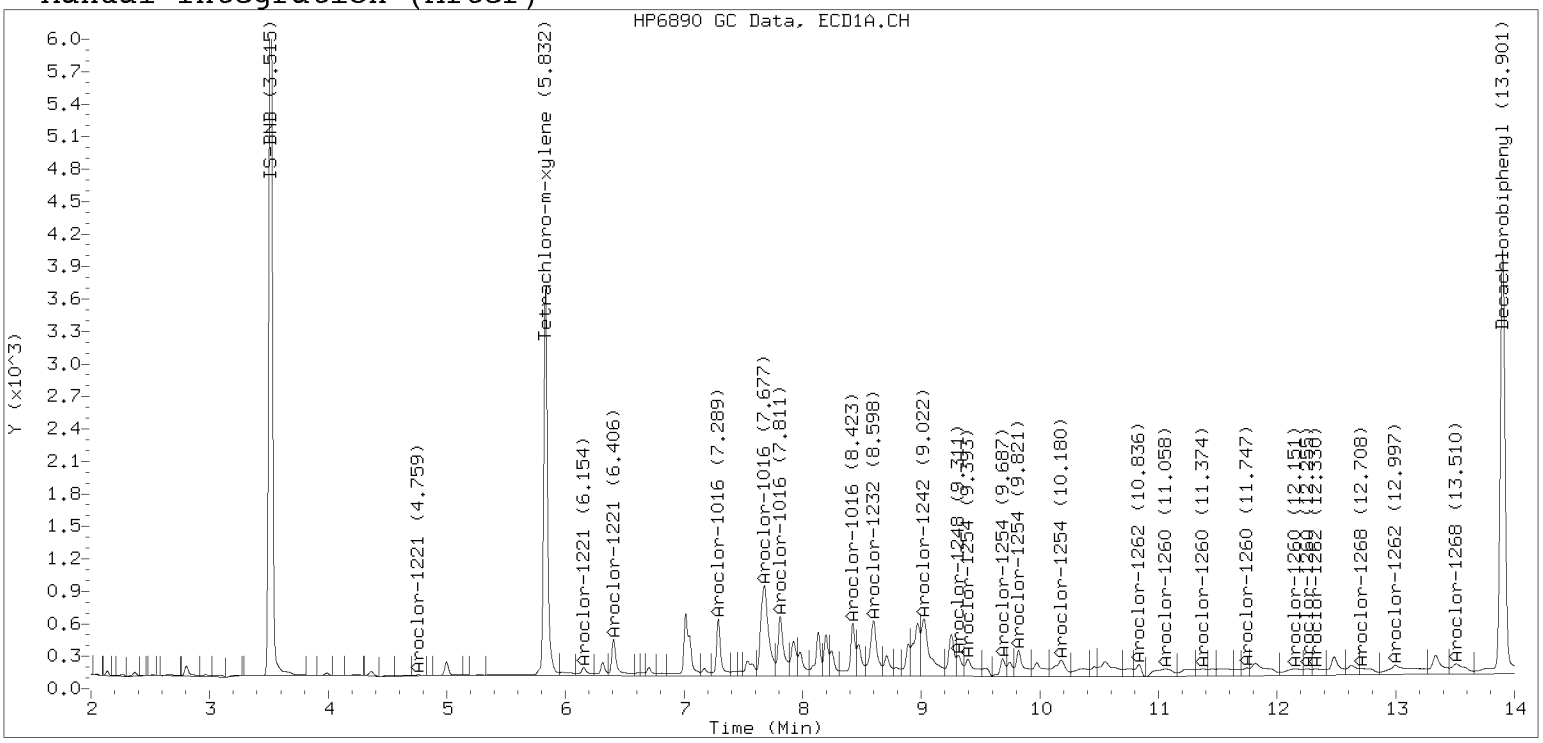


ZB-35 Manual Integration: NO

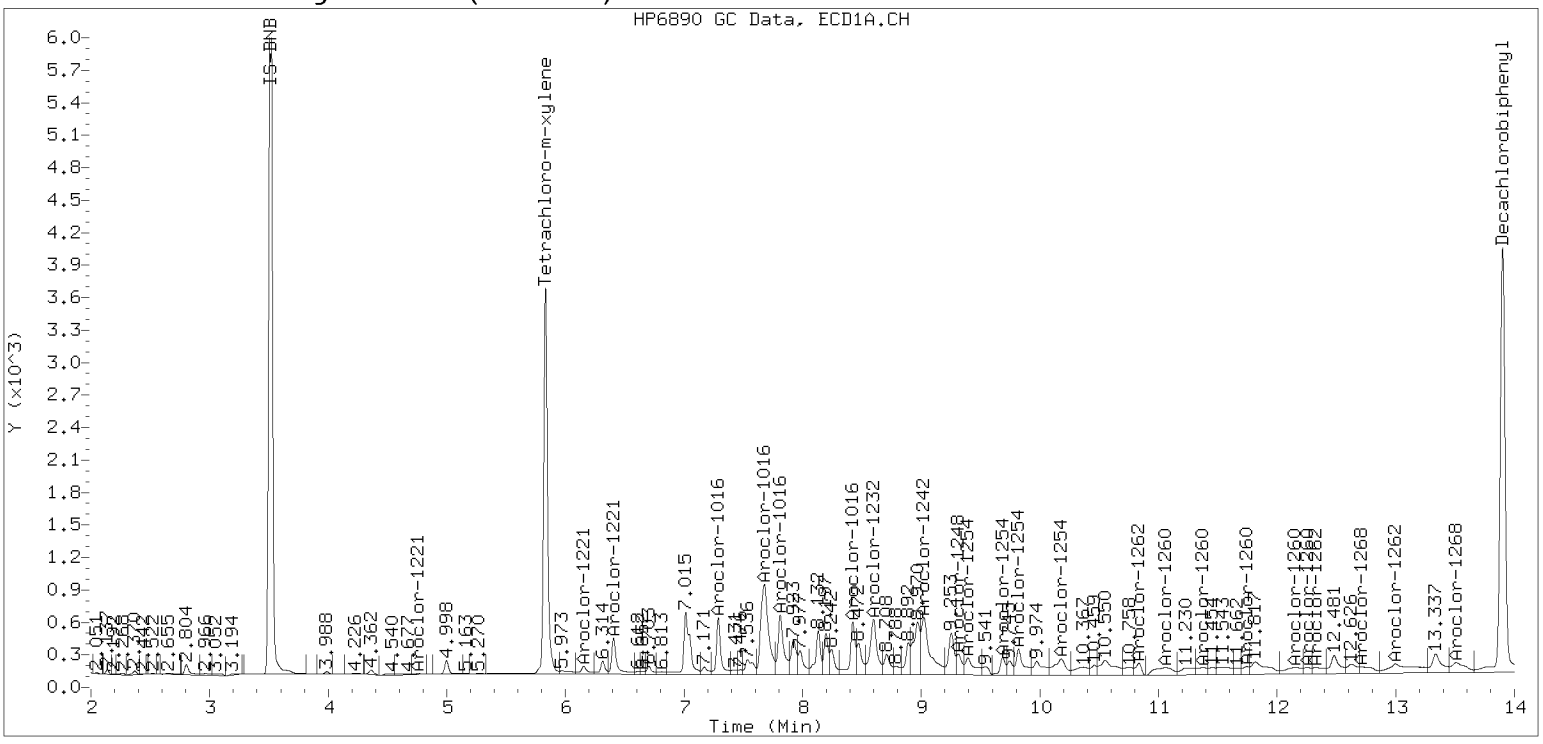
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052372ECD7.D Injection Date: 06-JAN-2023 13:19

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052373ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVA	Injection Time:	13:40
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	272	0.0441939	0.0474435		8.9	+/-20	
Aroclor-1016 (1)	A	250.00	269	0.0266860	0.0286971		7.6		
Aroclor-1016 (2)	A	250.00	261	0.0861572	0.0898299		4.4		
Aroclor-1016 (3)	A	250.00	277	0.0390425	0.0432184		10.8		
Aroclor-1016 (4)	A	250.00	282	0.0248899	0.0280287		12.8		
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0422433		-3.9	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	250	0.0409030	0.0408405		0.0		
Aroclor-1016 (2) [2C]	A	250.00	196	0.0882154	0.0692409		-21.6		
Aroclor-1016 (3) [2C]	A	250.00	249	0.0378846	0.0376828		-0.4		
Aroclor-1016 (4) [2C]	A	250.00	266	0.0199212	0.0212092		6.4		
Aroclor 1260	A	250.00	317	0.0390342	0.0492576		27.0	+/-20	*
Aroclor-1260 (1)	A	250.00	329	0.0291201	0.0383380		31.6		
Aroclor-1260 (2)	A	250.00	324	0.0301181	0.0389798		29.6		
Aroclor-1260 (3)	A	250.00	314	0.0791351	0.0995538		25.6		
Aroclor-1260 (4)	A	250.00	299	0.0403003	0.0482309		19.6		
Aroclor-1260 (5)	A	250.00	321	0.0164974	0.0211853		28.4		
Aroclor 1260 [2C]	A	250.00	219	0.0617619	0.0496587		-12.6	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	252	0.0422283	0.0426155		0.8		
Aroclor-1260 (2) [2C]	A	250.00	173	0.1059643	0.0732029		-30.8		
Aroclor-1260 (3) [2C]	A	250.00	259	0.0282173	0.0292578		3.6		
Aroclor-1260 (4) [2C]	A	250.00	190	0.0706376	0.0535588		-24.0		
Decachlorobiphenyl	A	40.000	49.6	0.7333327	0.9091503		24.0	+/-20	
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1111550		-2.0	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1541060		1.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1050490		0.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052373ECD7.D
Data file 2: /230105.b/230105.b/01052373ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 06-JAN-2023 13:40
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	125540	5.708	-0.002	84381	39.2	40.3	2.8	Tetrachloro-m-xylene
13.902	-0.002	203091	14.128	0.000	151511	49.6	40.6	19.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	225963	-49.5
Hexabromobiphenyl	798898	446771	-44.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	152719	-38.7
Hexabromobiphenyl	362541	262560	-27.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.001	20264	268.8	1	7.271	-0.002	19491	249.6
Aroclor-1016	2	7.678	-0.002	63432	260.7	2	7.872	-0.000	33045	196.2
Aroclor-1016	3	7.812	-0.001	30518	276.7	3	8.070	-0.002	17984	248.7
Aroclor-1016	4	8.423	-0.001	19792	281.5	4	8.242	-0.001	10122	266.2
Total Col1Ave (4 peaks):					271.9	Total Col2Ave (4 peaks):				240.2 RPD = 12
Corrected Ave (3 peaks):					268.7	Corrected Ave (3 peaks):				231.5 RPD = 15
CalAmt %D:					8.8	CalAmt %D:				-3.9
Aroclor-1260	1	11.056	0.000	53526	329.1	1	11.663	0.001	34966	252.3
Aroclor-1260	2	11.373	0.000	54422	323.6	2	11.925	-0.001	60063	172.7
Aroclor-1260	3	11.745	-0.001	138993	314.5	3	12.444	0.000	24006	259.2
Aroclor-1260	4	12.149	-0.001	67338	299.2	4	12.509	0.001	43945	189.6
Aroclor-1260	5	12.255	-0.000	29578	321.0	NS	---			----
Total Col1Ave (5 peaks):					317.5	Total Col2Ave (4 peaks):				218.4 RPD = 37
Corrected Ave (4 peaks):					314.6	Corrected Ave (3 peaks):				204.9 RPD = 42*
CalAmt %D:					27.0	CalAmt %D:				-12.6

Total PCB Area Col1 (5.933 - 13.804) = 1443815 Col1 Total PCB = 0.7 ppm*

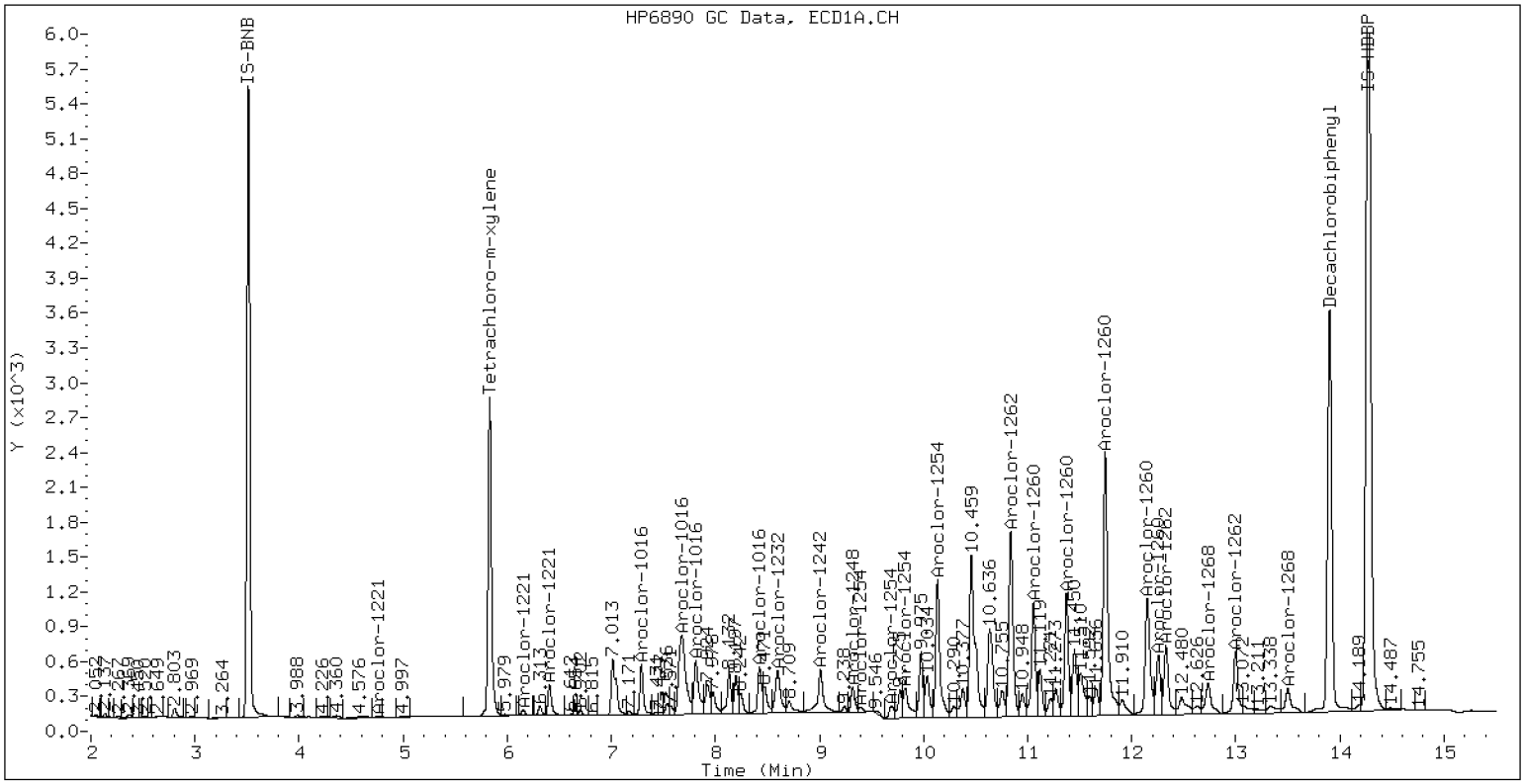
Total PCB Area Col2 (5.810 - 14.028) = 737879 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

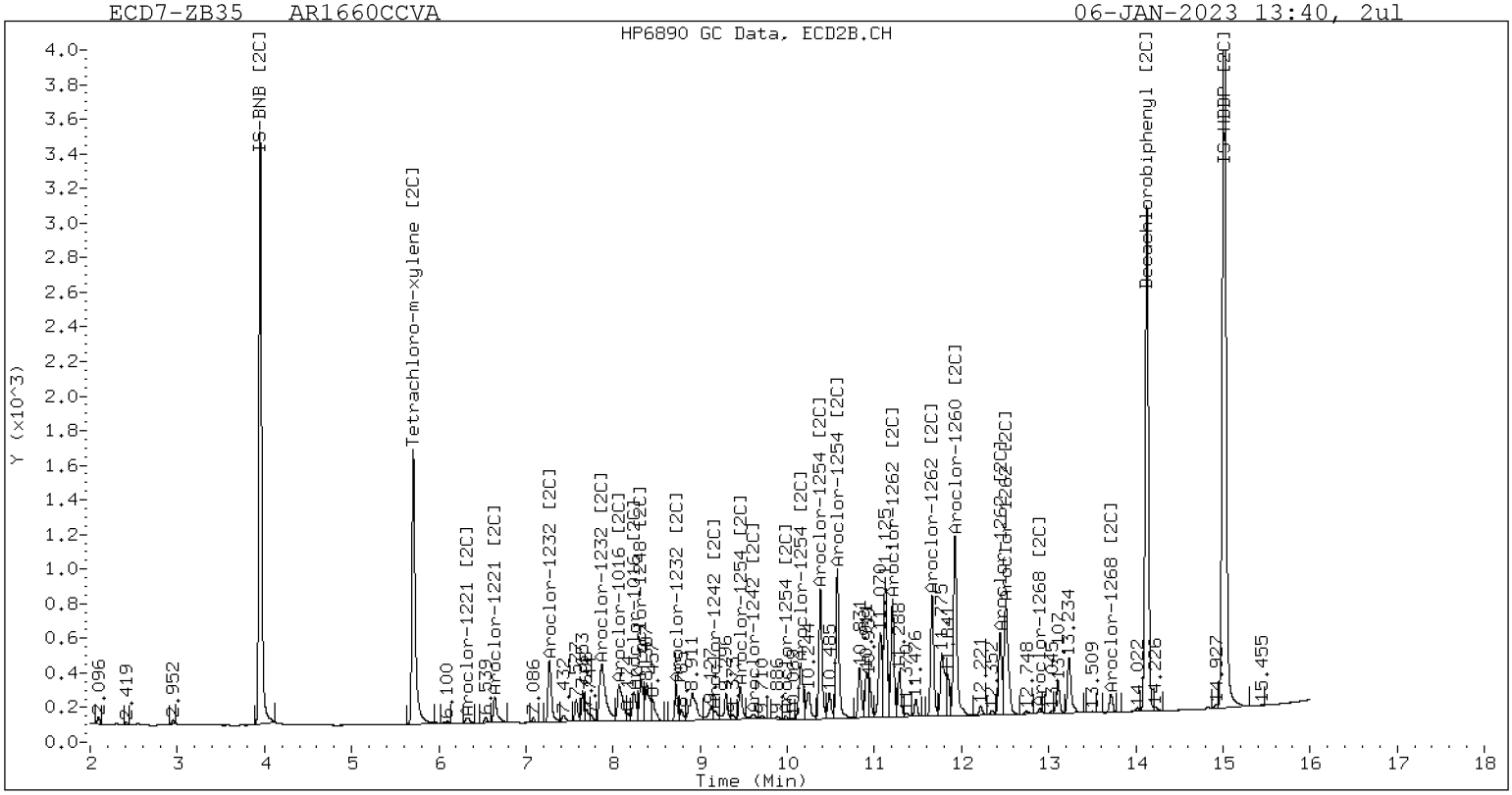
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 06-JAN-2023 13:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA 06-JAN-2023 13:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052384ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVB	Injection Time:	17:32
Sequence Name:	AR1254CCVB		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	255	0.0576965	0.0592055		2.0	+/-20
Aroclor-1254 (1)	A	250.00	235		0.0662601			
Aroclor-1254 (2)	A	250.00	266		0.0291167			
Aroclor-1254 (3)	A	250.00	221		0.0393178			
Aroclor-1254 (4)	A	250.00	274		0.0950152			
Aroclor-1254 (5)	A	250.00	279		0.0663176			
Aroclor 1254 [2C]	A	250.00	233	0.0638047	0.0608683		-6.9	+/-20
Aroclor-1254 (1) [2C]	A	250.00	239		0.0493351			
Aroclor-1254 (2) [2C]	A	250.00	156		0.0258635			
Aroclor-1254 (3) [2C]	A	250.00	219		0.0779495			
Aroclor-1254 (4) [2C]	A	250.00	278		0.1026867			
Aroclor-1254 (5) [2C]	A	250.00	272		0.0485064			
Decachlorobiphenyl	A	40.000	44.1	0.7333327	0.8086341		10.3	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0244080		-9.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.4	1.1358180	1.1745710		3.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.3	1.0966080	0.9958349		-9.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052384ECD7.D
Data file 2: /230105.b/230105.b/01052384ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCVB
Client ID:
Injection Date: 06-JAN-2023 17:32
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.002	156865	5.707	-0.003	106516	36.1	36.3	0.5	Tetrachloro-m-xylene
13.902	-0.002	195161	14.128	0.001	178563	44.1	41.4	6.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	306255	-31.6
Hexabromobiphenyl	798898	482693	-39.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	213923	-14.1
Hexabromobiphenyl	362541	304048	-16.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	0.001	63414	235.2	1	9.461	0.000	32981	239.1
Aroclor-1254	2	9.393	0.001	27866	265.7	2	9.978	0.000	17290	155.9
Aroclor-1254	3	9.685	0.000	37629	220.9	3	10.130	0.000	52110	218.6
Aroclor-1254	4	9.819	0.001	90934	273.9	4	10.378	0.000	68647	278.1
Aroclor-1254	5	10.176	0.001	63469	278.9	5	10.576	0.000	32427	272.4
	Total Col1Ave (5 peaks):				254.9		Total Col2Ave (5 peaks):			232.8 RPD = 9
	Corrected Ave (4 peaks):				248.9		Corrected Ave (4 peaks):			221.5 RPD = 12
			CalAmt %D:		2.0			CalAmt %D:		-6.9

Total PCB Area Col1 (5.933 - 13.804) = 935914 Col1 Total PCB = 0.3 ppm*

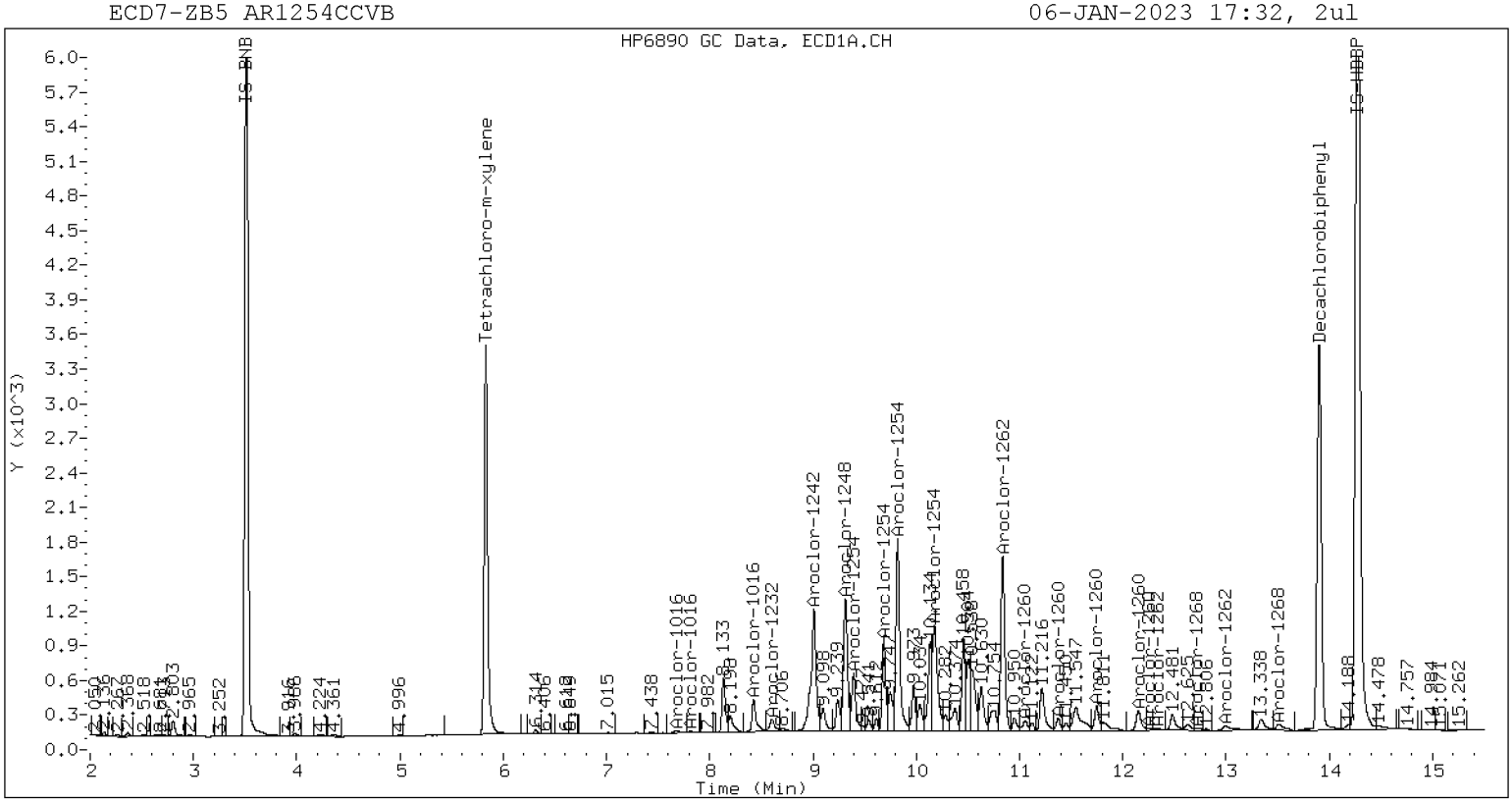
Total PCB Area Col2 (5.810 - 14.028) = 592595 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

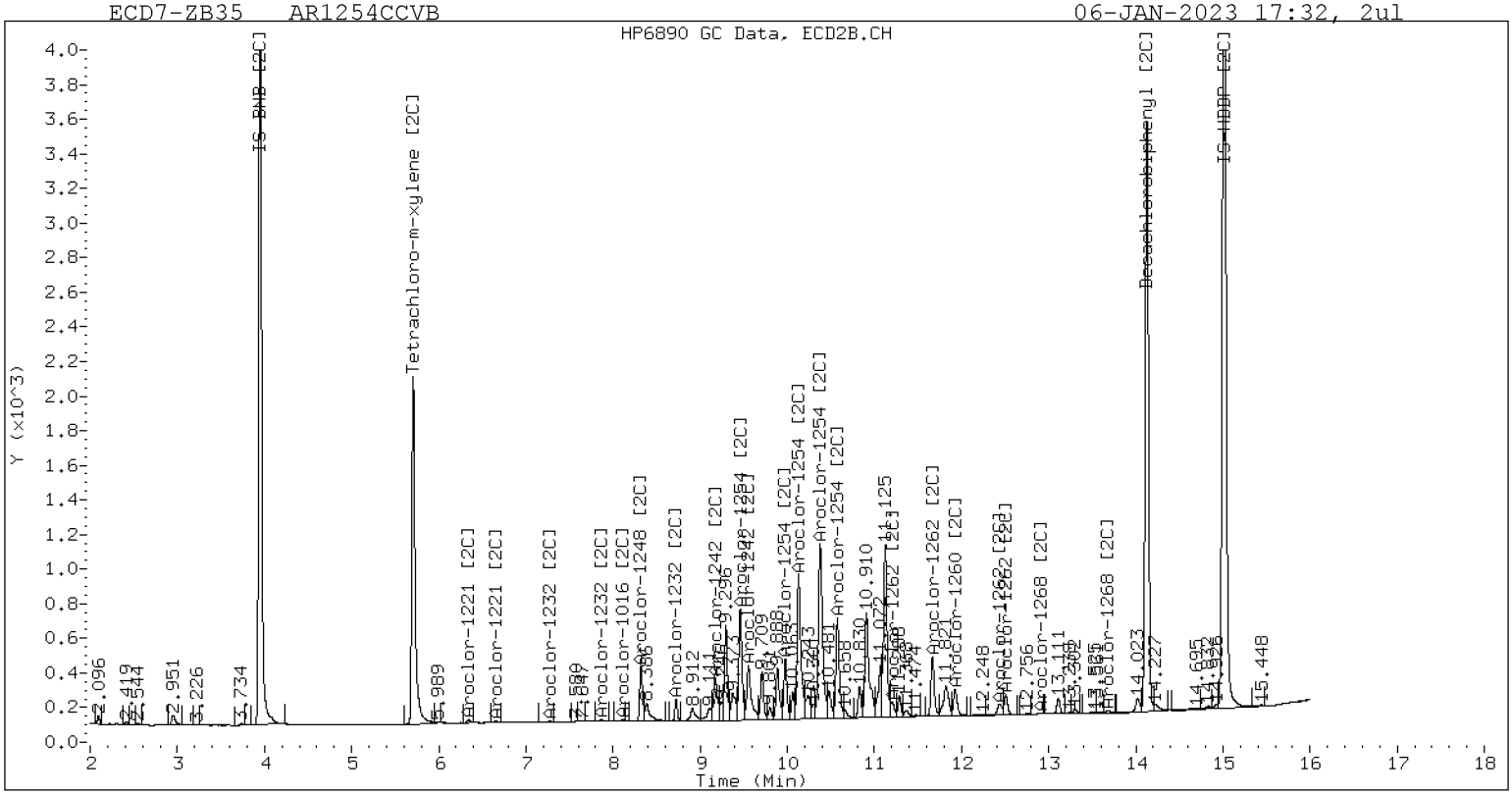
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCVB 06-JAN-2023 17:32, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCVB 06-JAN-2023 17:32, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052385ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVC	Injection Time:	17:53
Sequence Name:	AR1660CCVC		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	269	0.0441939	0.0472614		7.7	+/-20	
Aroclor-1016 (1)	A	250.00	273	0.0266860	0.0291640		9.2		
Aroclor-1016 (2)	A	250.00	263	0.0861572	0.0905952		5.2		
Aroclor-1016 (3)	A	250.00	274	0.0390425	0.0427180		9.6		
Aroclor-1016 (4)	A	250.00	267	0.0248899	0.0265684		6.8		
Aroclor 1016 [2C]	A	250.00	250	0.0467310	0.0440895		0.0	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	264	0.0409030	0.0432610		5.6		
Aroclor-1016 (2) [2C]	A	250.00	205	0.0882154	0.0723812		-18.0		
Aroclor-1016 (3) [2C]	A	250.00	256	0.0378846	0.0388290		2.4		
Aroclor-1016 (4) [2C]	A	250.00	275	0.0199212	0.0218867		10.0		
Aroclor 1260	A	250.00	310	0.0390342	0.0481017		24.0	+/-20	*
Aroclor-1260 (1)	A	250.00	310	0.0291201	0.0361699		24.0		
Aroclor-1260 (2)	A	250.00	308	0.0301181	0.0371435		23.2		
Aroclor-1260 (3)	A	250.00	308	0.0791351	0.0975861		23.2		
Aroclor-1260 (4)	A	250.00	299	0.0403003	0.0481477		19.6		
Aroclor-1260 (5)	A	250.00	325	0.0164974	0.0214613		30.0		
Aroclor 1260 [2C]	A	250.00	223	0.0617619	0.0506396		-10.9	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	256	0.0422283	0.0433425		2.4		
Aroclor-1260 (2) [2C]	A	250.00	176	0.1059643	0.0746862		-29.6		
Aroclor-1260 (3) [2C]	A	250.00	266	0.0282173	0.0300587		6.4		
Aroclor-1260 (4) [2C]	A	250.00	193	0.0706376	0.0544712		-22.8		
Decachlorobiphenyl	A	40.000	46.9	0.7333327	0.8599484		17.3	+/-20	
Tetrachlorometaxylene	A	40.000	40.5	1.1336710	1.1488350		1.3	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1650590		2.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	41.9	1.0966080	1.1499870		4.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052385ECD7.D
Data file 2: /230105.b/230105.b/01052385ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVC
Client ID:
Injection Date: 06-JAN-2023 17:53
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	126408	5.709	-0.001	86893	40.5	41.9	3.4	Tetrachloro-m-xylene
13.904	0.000	181327	14.128	0.000	150151	46.9	41.0	13.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	220063	-50.8 <-
Hexabromobiphenyl	798898	421716	-47.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	151120	-39.3
Hexabromobiphenyl	362541	257757	-28.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.001	20056	273.2	1	7.272	-0.001	20430	264.4
Aroclor-1016	2	7.677	-0.004	62302	262.9	2	7.872	-0.000	34182	205.1
Aroclor-1016	3	7.811	-0.001	29377	273.5	3	8.071	-0.001	18337	256.2
Aroclor-1016	4	8.424	-0.001	18271	266.9	4	8.241	-0.001	10336	274.7
Total Col1Ave (4 peaks):					269.1	Total Col2Ave (4 peaks):				250.1 RPD = 7
Corrected Ave (3 peaks):					267.7	Corrected Ave (3 peaks):				241.9 RPD = 10
CalAmt %D:					7.6	CalAmt %D:				0.0
Aroclor-1260	1	11.055	-0.000	47667	310.5	1	11.662	-0.001	34912	256.6
Aroclor-1260	2	11.372	-0.000	48950	308.3	2	11.924	-0.002	60159	176.2
Aroclor-1260	3	11.745	-0.001	128605	308.3	3	12.444	0.001	24212	266.3
Aroclor-1260	4	12.149	-0.001	63452	298.7	4	12.508	0.000	43876	192.8
Aroclor-1260	5	12.255	-0.000	28283	325.2	NS	---			----
Total Col1Ave (5 peaks):					310.2	Total Col2Ave (4 peaks):				223.0 RPD = 33
Corrected Ave (4 peaks):					306.5	Corrected Ave (3 peaks):				208.5 RPD = 38
CalAmt %D:					24.1	CalAmt %D:				-10.8

Total PCB Area Col1 (5.933 - 13.804) = 1290684 Col1 Total PCB = 0.6 ppm*

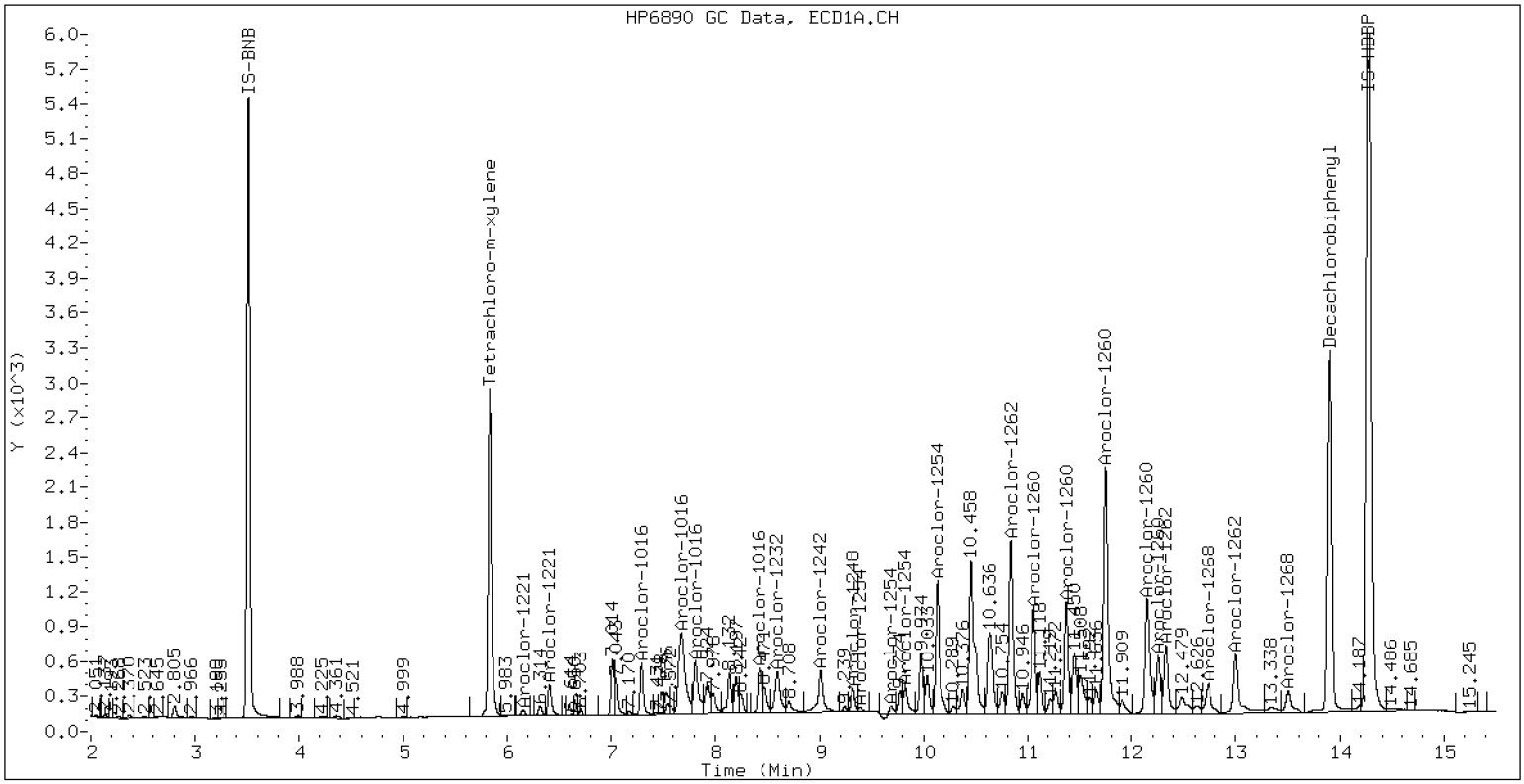
Total PCB Area Col2 (5.810 - 14.028) = 741861 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

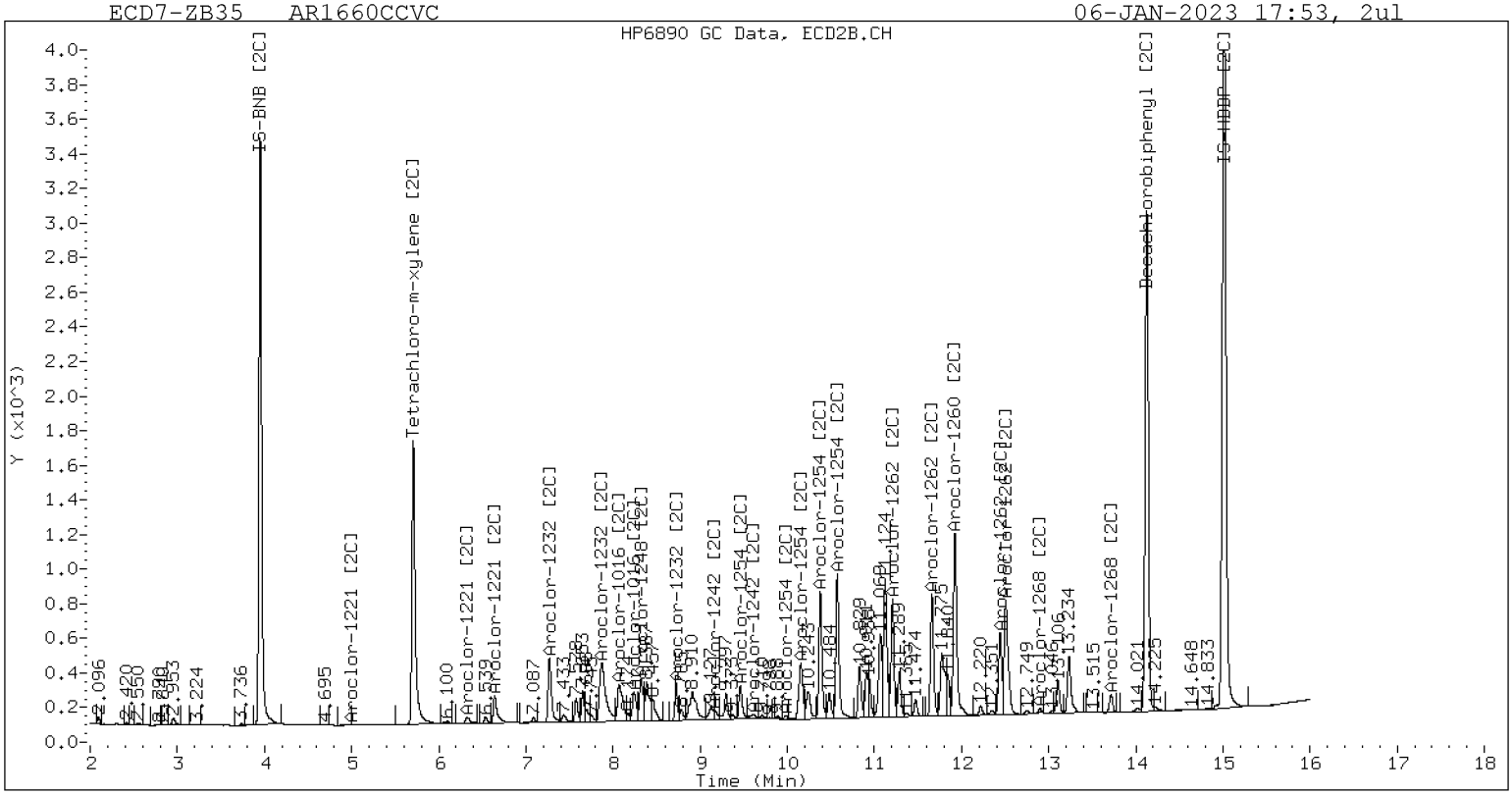
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVC 06-JAN-2023 17:53, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVC 06-JAN-2023 17:53, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052392ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVD	Injection Time:	20:21
Sequence Name:	AR1248CCVD		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	265	0.0490062	0.0536587		6.1	+/-20
Aroclor-1248 (1)	A	250.00	285		0.0392750			
Aroclor-1248 (2)	A	250.00	307		0.0539291			
Aroclor-1248 (3)	A	250.00	303		0.0957740			
Aroclor-1248 (4)	A	250.00	166		0.0256568			
Aroclor 1248 [2C]	A	250.00	259	0.0394876	0.0413866		3.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	266		0.0347484			
Aroclor-1248 (2) [2C]	A	250.00	195		0.0267774			
Aroclor-1248 (3) [2C]	A	250.00	290		0.0485348			
Aroclor-1248 (4) [2C]	A	250.00	283		0.0554859			
Decachlorobiphenyl	A	40.000	44.6	0.7333327	0.8179595		11.5	+/-20
Tetrachlorometaxylene	A	40.000	36.4	1.1336710	1.0303150		-9.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1715930		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.3	1.0966080	1.0235560		-6.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

AR1248CCVD

Data file 1: /230105.b/01052392ECD7.D
Data file 2: /230105.b/230105.b/01052392ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCVD
Client ID:
Injection Date: 06-JAN-2023 20:21
Report Date: 01/13/2023 11:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.002	166773	5.708	-0.002	113041	36.4	37.3	2.7	Tetrachloro-m-xylene
13.902	-0.000	243664	14.128	0.001	206621	44.6	41.3	7.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	323732	-27.7
Hexabromobiphenyl	798898	595785	-25.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	220879	-11.3
Hexabromobiphenyl	362541	352718	-2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.422	-0.001	39733	285.5	1	8.321	0.000	23985	265.8
Aroclor-1248	2	8.598	-0.001	54558	307.0	2	8.725	-0.001	18483	194.8
Aroclor-1248	3	9.017	-0.000	96891	303.1	3	9.172	-0.001	33501	290.2
Aroclor-1248	4	9.310	-0.002	25956	165.7	4	9.592	-0.000	38299	282.6
Total Col1Ave (4 peaks):					265.3	Total Col2Ave (4 peaks):				258.3 RPD = 3
Corrected Ave (3 peaks):					251.4	Corrected Ave (3 peaks):				247.7 RPD = 1
CalAmt %D:					6.1	CalAmt %D:				3.3

Total PCB Area Col1 (5.933 - 13.802) = 927706 Col1 Total PCB = 0.3 ppm*

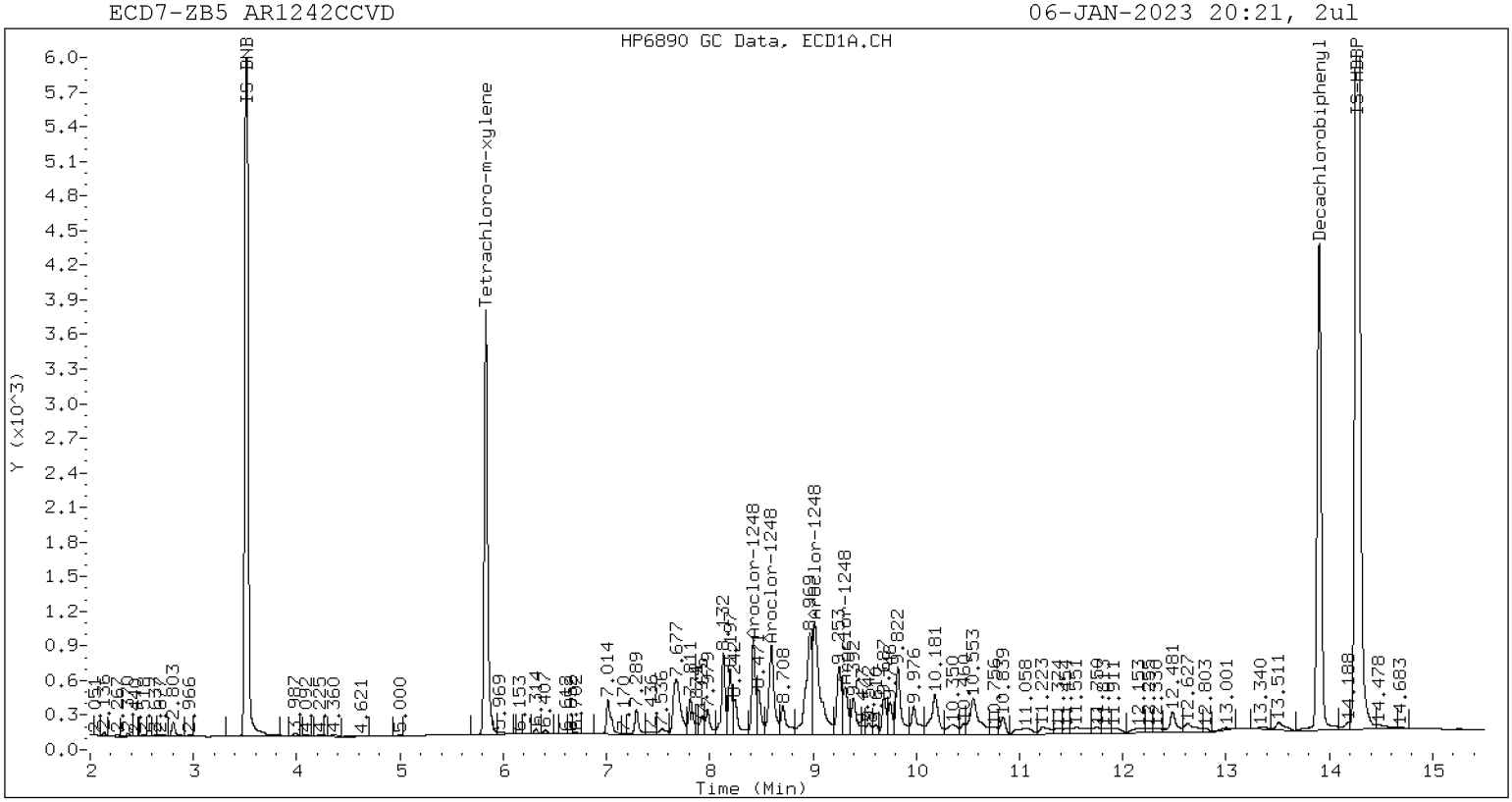
Total PCB Area Col2 (5.810 - 14.028) = 463637 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

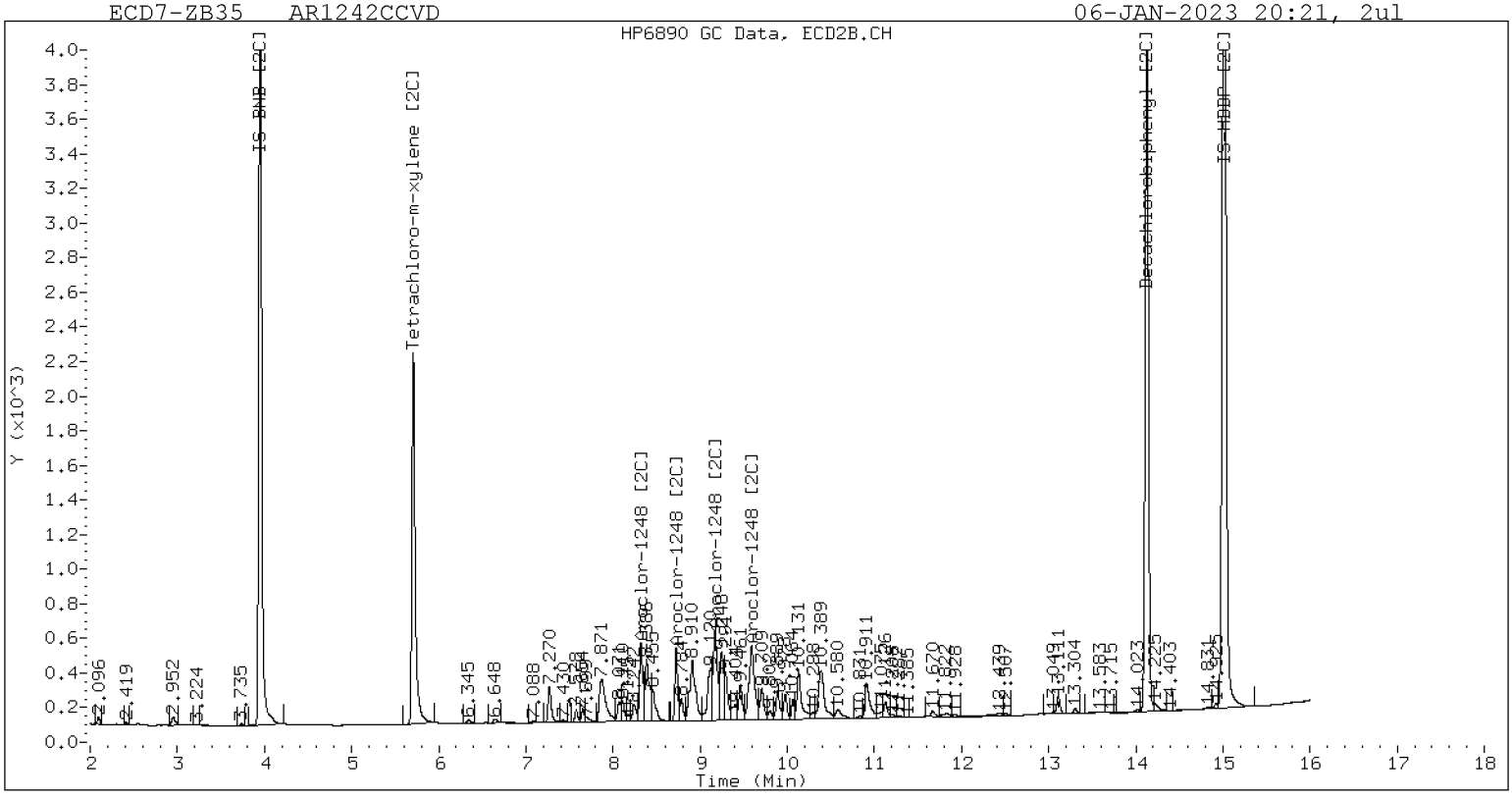
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCVD 06-JAN-2023 20:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCVD 06-JAN-2023 20:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052393ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVE	Injection Time:	20:42
Sequence Name:	AR1660CCVE		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	278	0.0441939	0.0484052		11.0	+/-20	
Aroclor-1016 (1)	A	250.00	273	0.0266860	0.0291000		9.2		
Aroclor-1016 (2)	A	250.00	267	0.0861572	0.0919557		6.8		
Aroclor-1016 (3)	A	250.00	279	0.0390425	0.0435823		11.6		
Aroclor-1016 (4)	A	250.00	291	0.0248899	0.0289829		16.4		
Aroclor 1016 [2C]	A	250.00	247	0.0467310	0.0434824		-1.2	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	258	0.0409030	0.0422839		3.2		
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0713281		-19.2		
Aroclor-1016 (3) [2C]	A	250.00	253	0.0378846	0.0384131		1.2		
Aroclor-1016 (4) [2C]	A	250.00	275	0.0199212	0.0219044		10.0		
Aroclor 1260	A	250.00	316	0.0390342	0.0488894		26.2	+/-20	*
Aroclor-1260 (1)	A	250.00	324	0.0291201	0.0377734		29.6		
Aroclor-1260 (2)	A	250.00	318	0.0301181	0.0382805		27.2		
Aroclor-1260 (3)	A	250.00	311	0.0791351	0.0984380		24.4		
Aroclor-1260 (4)	A	250.00	301	0.0403003	0.0485753		20.4		
Aroclor-1260 (5)	A	250.00	324	0.0164974	0.0213796		29.6		
Aroclor 1260 [2C]	A	250.00	217	0.0617619	0.0491487		-13.3	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	253	0.0422283	0.0426844		1.2		
Aroclor-1260 (2) [2C]	A	250.00	170	0.1059643	0.0720918		-32.0		
Aroclor-1260 (3) [2C]	A	250.00	258	0.0282173	0.0291493		3.2		
Aroclor-1260 (4) [2C]	A	250.00	186	0.0706376	0.0526691		-25.6		
Decachlorobiphenyl	A	40.000	47.0	0.7333327	0.8623745		17.5	+/-20	
Tetrachlorometaxylene	A	40.000	39.4	1.1336710	1.1165900		-1.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1506640		1.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1050210		0.8	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052393ECD7.D
Data file 2: /230105.b/230105.b/01052393ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVE
Client ID:
Injection Date: 06-JAN-2023 20:42
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.000	126556	5.710	0.000	86374	39.4	40.3	2.3	Tetrachloro-m-xylene
13.902	-0.002	197545	14.128	0.000	156194	47.0	40.5	14.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	226683	-49.4
Hexabromobiphenyl	798898	458142	-42.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	156330	-37.2
Hexabromobiphenyl	362541	271485	-25.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	20614	272.6	1	7.272	0.000	20657	258.4
Aroclor-1016	2	7.678	-0.002	65140	266.8	2	7.872	0.000	34846	202.1
Aroclor-1016	3	7.813	0.000	30873	279.1	3	8.072	0.000	18766	253.5
Aroclor-1016	4	8.424	-0.000	20531	291.1	4	8.242	0.000	10701	274.9
Total Col1Ave (4 peaks):					277.4	Total Col2Ave (4 peaks):				247.2 RPD = 11
Corrected Ave (3 peaks):					272.8	Corrected Ave (3 peaks):				238.0 RPD = 14
CalAmt %D:					11.0	CalAmt %D:				-1.1
Aroclor-1260	1	11.055	-0.000	54080	324.3	1	11.663	0.000	36213	252.7
Aroclor-1260	2	11.372	-0.000	54806	317.8	2	11.926	0.000	61162	170.1
Aroclor-1260	3	11.746	-0.000	140933	311.0	3	12.443	0.000	24730	258.3
Aroclor-1260	4	12.149	-0.001	69545	301.3	4	12.508	0.000	44684	186.4
Aroclor-1260	5	12.255	-0.001	30609	324.0	NS	---			----
Total Col1Ave (5 peaks):					315.7	Total Col2Ave (4 peaks):				216.9 RPD = 37
Corrected Ave (4 peaks):					313.5	Corrected Ave (3 peaks):				203.1 RPD = 43*
CalAmt %D:					26.3	CalAmt %D:				-13.3

Total PCB Area Col1 (5.933 - 13.804) = 1463756 Col1 Total PCB = 0.7 ppm*

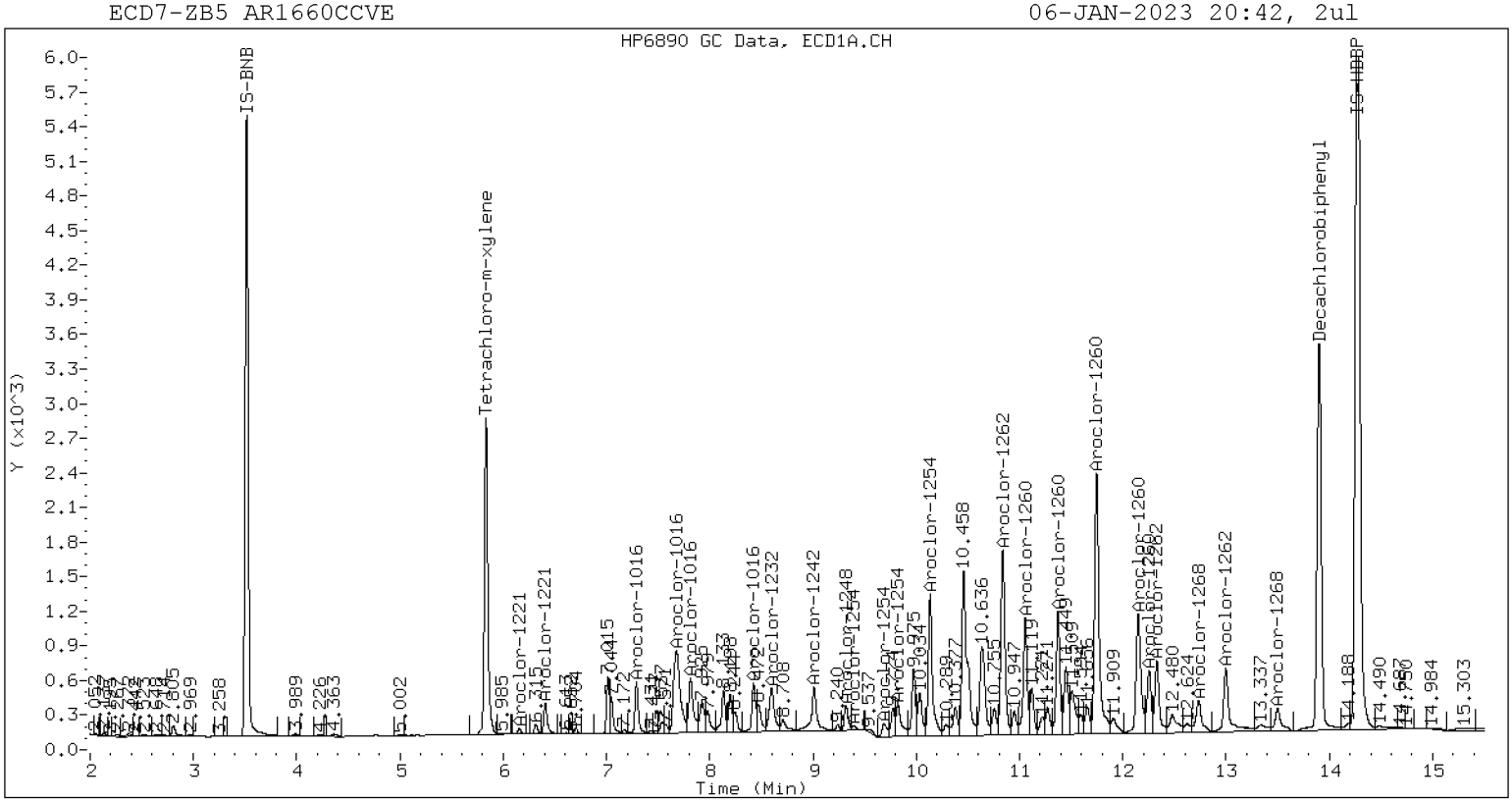
Total PCB Area Col2 (5.810 - 14.028) = 764316 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

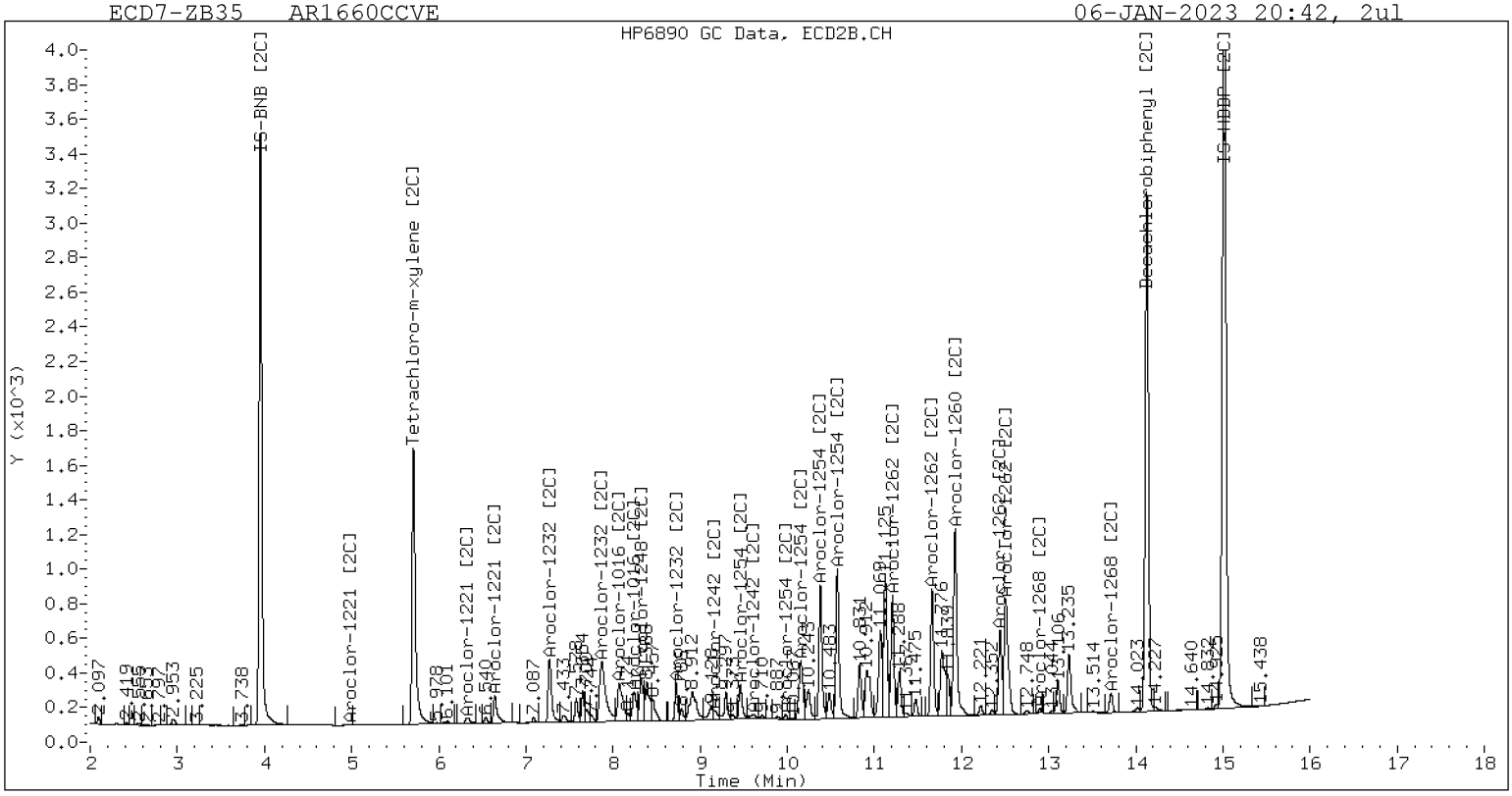
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVE 06-JAN-2023 20:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVE 06-JAN-2023 20:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0048	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SKL0048-CAL1	12032211ECD7.D	12032211ECD7.D	NA	12/03/22 18:19
Cal Standard	SKL0048-CAL2	12032212ECD7.D	12032212ECD7.D	NA	12/03/22 18:40
Cal Standard	SKL0048-CAL3	12032213ECD7.D	12032213ECD7.D	NA	12/03/22 19:01
Cal Standard	SKL0048-CAL4	12032214ECD7.D	12032214ECD7.D	NA	12/03/22 19:23
Cal Standard	SKL0048-CAL5	12032215ECD7.D	12032215ECD7.D	NA	12/03/22 19:44
Cal Standard	SKL0048-CAL6	12032216ECD7.D	12032216ECD7.D	NA	12/03/22 20:05
Cal Standard	SKL0048-CAL7	12032217ECD7.D	12032217ECD7.D	NA	12/03/22 20:26
Cal Standard	SKL0048-CAL8	12032218ECD7.D	12032218ECD7.D	NA	12/03/22 20:48
Cal Standard	SKL0048-CAL9	12032219ECD7.D	12032219ECD7.D	NA	12/03/22 21:09
Cal Standard	SKL0048-CALA	12032220ECD7.D	12032220ECD7.D	NA	12/03/22 21:30
Cal Standard	SKL0048-CALB	12032221ECD7.D	12032221ECD7.D	NA	12/03/22 21:52
Secondary Cal Check	SKL0048-SCV1	12032222ECD7.D	12032222ECD7.D	NA	12/03/22 22:13
Secondary Cal Check	SKL0048-SCV2	12032223ECD7.D	12032223ECD7.D	NA	12/03/22 22:34
Secondary Cal Check	SKL0048-SCV3	12032224ECD7.D	12032224ECD7.D	NA	12/03/22 22:55
Secondary Cal Check	SKL0048-SCV4	12032225ECD7.D	12032225ECD7.D	NA	12/03/22 23:17
Secondary Cal Check	SKL0048-SCV5	12032226ECD7.D	12032226ECD7.D	NA	12/03/22 23:38
Secondary Cal Check	SKL0048-SCV6	12032227ECD7.D	12032227ECD7.D	NA	12/03/22 23:59

Printed: 12/6/2022 9:25:24AM

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0370
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Calibration Check	SKL0370-CCV3	12292233ECD7.D	12292233ECD7.D	NA	12/29/22 20:10
Calibration Check	SKL0370-CCV4	12292234ECD7.D	12292234ECD7.D	NA	12/29/22 20:31
LDW22-SC787H	22L0199-43	12292237ECD7.D	12292237ECD7.D	Solid	12/29/22 21:34
LDW22-IT789G	BKL0401-MSD1	12292240ECD7.D	12292240ECD7.D	Solid	12/29/22 22:37
LDW22-SC762A	22L0199-01	12292241ECD7.D	12292241ECD7.D	Solid	12/29/22 22:58
LDW22-SC762B	22L0199-02	12292242ECD7.D	12292242ECD7.D	Solid	12/29/22 23:20
LDW22-SC762C	22L0199-03	12292243ECD7.D	12292243ECD7.D	Solid	12/29/22 23:41
Calibration Check	SKL0370-CCV5	12292245ECD7.D	12292245ECD7.D	NA	12/30/22 00:23
Calibration Check	SKL0370-CCV6	12292246ECD7.D	12292246ECD7.D	NA	12/30/22 00:44
LDW22-SC762I	22L0199-09	12292248ECD7.D	12292248ECD7.D	Solid	12/30/22 01:26
LDW22-IT789H	22L0199-13	12292249ECD7.D	12292249ECD7.D	Solid	12/30/22 01:47
LDW22-IT789I-FD	22L0199-15	12292250ECD7.D	12292250ECD7.D	Solid	12/30/22 02:08
Calibration Check	SKL0370-CCV7	12292251ECD7.D	12292251ECD7.D	NA	12/30/22 02:30
Calibration Check	SKL0370-CCV8	12292252ECD7.D	12292252ECD7.D	NA	12/30/22 02:51
Calibration Check	SKL0370-CCV9	12292263ECD7.D	12292263ECD7.D	NA	12/30/22 06:43
Calibration Check	SKL0370-CCVA	12292264ECD7.D	12292264ECD7.D	NA	12/30/22 07:04
Calibration Check	SKL0370-CCVB	12292269ECD7.D	12292269ECD7.D	NA	12/30/22 08:50
Calibration Check	SKL0370-CCVC	12292270ECD7.D	12292270ECD7.D	NA	12/30/22 09:11

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SKL0370

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/3/2023 1:00:21PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0370-ICV1	QC		1		K006957	K006953		
SKL0370-ICV2	QC		2		K006954	K006953		
BKL0653-BLK1	QC		3			K006953		
BKL0653-BS1	QC		4			K006953		
BKL0653-BSD1	QC		5			K006953		
22L0430-01	8082A PCB Medium Level	A 01	6			K006953	Analytical Resources, Inc. QA Department	
BKL0631-BLK1	QC		7			K006953		
BKL0631-BS1	QC		8			K006953		
BKL0631-BSD1	QC		9			K006953		
BKL0631-MRL1	QC		10			K006953		
22L0568-01	082A PCB Medium Level Oil	A 01	11			K006953	The Boeing Company [Auburn]	RL must be at or below 1 PPM
BKL0442-BLK1	QC		12			K006953		
BKL0442-BS1	QC		13			K006953		
BKL0442-BSD1	QC		14			K006953		
22L0416-83	PCB (20 ug/kg) or (MTCA 0.	B 01	15			K006953	Integral Consulting, Inc.	Use this one
22L0416-84	PCB (20 ug/kg) or (MTCA 0.	B 01	16			K006953	Integral Consulting, Inc.	Use this one
SKL0370-CCV1	QC		17		K006956	K006953		
SKL0370-CCV2	QC		18		K006954	K006953		
BKL0506-BLK1	QC		19			K006953		
BKL0506-BS1	QC		20			K006953		
BKL0506-BSD1	QC		21			K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0370

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/3/2023 1:00:21PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
BKL0506-MRL1	QC		22			K006953		
22L0445-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	23			K006953	Spectra Laboratories	Version
22L0461-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	24			K006953	EcoAnalysts, Inc.	
22L0461-02	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	25			K006953	EcoAnalysts, Inc.	
22L0461-03	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	26			K006953	EcoAnalysts, Inc.	
22L0461-04	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	27			K006953	EcoAnalysts, Inc.	
22L0461-05	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	28			K006953	EcoAnalysts, Inc.	
22L0461-06	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	29			K006953	EcoAnalysts, Inc.	
SKL0370-CCV3	QC		30		K006955	K006953		
SKL0370-CCV4	QC		31		K006954	K006953		
22L0199-41	8082A PCB Solid 4	B 01	32			K006953	Anchor QEA, LLC	
22L0199-42	8082A PCB Solid 4	B 01	33			K006953	Anchor QEA, LLC	
22L0199-43	8082A PCB Solid 4	B 01	34			K006953	Anchor QEA, LLC	
BKL0401-MSD1	QC		35			K006953		
22L0199-01	8082A PCB Solid 4	B 01	36			K006953	Anchor QEA, LLC	
22L0199-02	8082A PCB Solid 4	B 01	37			K006953	Anchor QEA, LLC	
22L0199-03	8082A PCB Solid 4	B 01	38			K006953	Anchor QEA, LLC	
22L0199-07	8082A PCB Solid 4	B 01	39			K006953	Anchor QEA, LLC	
SKL0370-CCV5	QC		40		K006957	K006953		
SKL0370-CCV6	QC		41		K006954	K006953		
22L0199-09	8082A PCB Solid 4	B 01	42			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0370

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/3/2023 1:00:21PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0199-13	8082A PCB Solid 4	B 01	43			K006953	Anchor QEA, LLC	
22L0199-15	8082A PCB Solid 4	B 01	44			K006953	Anchor QEA, LLC	
SKL0370-CCV7	QC		45		K006956	K006953		
SKL0370-CCV8	QC		46		K006954	K006953		
22L0155-36	8082A PCB Solid 4	B 01	47			K006953	Anchor QEA, LLC	
22L0155-37	8082A PCB Solid 4	B 01	48			K006953	Anchor QEA, LLC	
22L0155-39	8082A PCB Solid 4	B 01	49			K006953	Anchor QEA, LLC	
22L0155-40	8082A PCB Solid 4	B 01	50			K006953	Anchor QEA, LLC	
22L0155-46	8082A PCB Solid 4	B 01	51			K006953	Anchor QEA, LLC	
22L0155-47	8082A PCB Solid 4	B 01	52			K006953	Anchor QEA, LLC	
22L0155-48	8082A PCB Solid 4	B 01	53			K006953	Anchor QEA, LLC	
22L0155-31RE1	8082A PCB Solid 4	B 01	54			K006953	Anchor QEA, LLC	Added 1/3/2023 by JGR
22L0155-33RE1	8082A PCB Solid 4	B 01	55			K006953	Anchor QEA, LLC	Added 1/3/2023 by JGR
22L0155-63	8082A PCB Solid 4	B 01	56			K006953	Anchor QEA, LLC	
SKL0370-CCV9	QC		57		K006955	K006953		
SKL0370-CCVA	QC		58		K006954	K006953		
22L0155-26	8082A PCB Solid 4	B 01	59			K006953	Anchor QEA, LLC	
22L0155-35	8082A PCB Solid 4	B 01	60			K006953	Anchor QEA, LLC	
22L0155-61	8082A PCB Solid 4	B 01	61			K006953	Anchor QEA, LLC	
22L0155-62	8082A PCB Solid 4	B 01	62			K006953	Anchor QEA, LLC	
SKL0370-CCVB	QC		63		K006957	K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0370

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/3/2023 1:00:21PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0370-CCVC	QC		64		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	29-DEC-2022 08:54	12292201.D	1	DDTS	
2	29-DEC-2022 09:15	12292202.D	1	AR1254ICV1	
3	29-DEC-2022 09:36	12292203.D	1	AR1660ICV2	
4	29-DEC-2022 09:57	12292204.D	1	BKL0653-BLK	
5	29-DEC-2022 10:19	12292205.D	1	BKL0653-BS1	
6	29-DEC-2022 10:40	12292206.D	1	BKL0653-BSD1	
7	29-DEC-2022 11:01	12292207.D	1	22L0430-01	
8	29-DEC-2022 11:22	12292208.D	10	22L0430-01RE1	
9	29-DEC-2022 11:43	12292209.D	1	BKL0631-BLK1	
10	29-DEC-2022 12:04	12292210.D	1	BKL0631-BS1	
11	29-DEC-2022 12:25	12292211.D	1	BKL0631-BSD1	
12	29-DEC-2022 12:46	12292212.D	1	BKL0631-MRL1	
13	29-DEC-2022 13:07	12292213.D	1	22L0568-01	
14	29-DEC-2022 13:28	12292214.D	5	22L0568-01RE1	
15	29-DEC-2022 13:49	12292215.D	1	BKL0442-BLK1	
16	29-DEC-2022 14:11	12292216.D	1	BKL0442-BS1	
17	29-DEC-2022 14:32	12292217.D	1	BKL0442-BSD1	
18	29-DEC-2022 14:53	12292218.D	1	22L0416-83	
19	29-DEC-2022 15:14	12292219.D	1	22L0416-84	
20	29-DEC-2022 15:35	12292220.D	1	AR1248CCV1	
21	29-DEC-2022 15:56	12292221.D	1	AR1660CCV2	
22	29-DEC-2022 16:17	12292222.D	1	BKL0506-BLK1	
23	29-DEC-2022 16:38	12292223.D	1	BKL0506-BS1	
24	29-DEC-2022 17:00	12292224.D	1	BKL0506-BSD1	
25	29-DEC-2022 17:21	12292225.D	1	BKL0506-MRL1	
26	29-DEC-2022 17:42	12292226.D	1	22L0445-01	
27	29-DEC-2022 18:03	12292227.D	1	22L0461-01	
28	29-DEC-2022 18:24	12292228.D	1	22L0461-02	
29	29-DEC-2022 18:45	12292229.D	1	22L0461-03	
30	29-DEC-2022 19:06	12292230.D	1	22L0461-04	
31	29-DEC-2022 19:27	12292231.D	1	22L0461-05	
32	29-DEC-2022 19:48	12292232.D	1	22L0461-06	
33	29-DEC-2022 20:10	12292233.D	1	AR1242CCV3	
34	29-DEC-2022 20:31	12292234.D	1	AR1660CCV4	
35	29-DEC-2022 20:52	12292235.D	1	22L0199-41	
36	29-DEC-2022 21:13	12292236.D	1	22L0199-42	
37	29-DEC-2022 21:34	12292237.D	1	22L0199-43	
38	29-DEC-2022 21:55	12292238.D	5	22L0199-44RE1	
39	29-DEC-2022 22:16	12292239.D	5	22L0199-45RE1	
40	29-DEC-2022 22:37	12292240.D	1	BKL0401-MSD1	
41	29-DEC-2022 22:58	12292241.D	1	22L0199-01	
42	29-DEC-2022 23:20	12292242.D	5	22L0199-02RE1	
43	29-DEC-2022 23:41	12292243.D	5	22L0199-03RE1	
44	30-DEC-2022 00:02	12292244.D	1	22L0199-07	
45	30-DEC-2022 00:23	12292245.D	1	AR1254CCV5	
46	30-DEC-2022 00:44	12292246.D	1	AR1660CCV6	
47	30-DEC-2022 01:05	12292247.D	1	22L0199-08	
48	30-DEC-2022 01:26	12292248.D	1	22L0199-09	
49	30-DEC-2022 01:47	12292249.D	1	22L0199-13	
50	30-DEC-2022 02:08	12292250.D	1	22L0199-15	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	30-DEC-2022 02:30	12292251.D	1	AR1248CCV7	
52	30-DEC-2022 02:51	12292252.D	1	AR1660CCV8	
53	30-DEC-2022 03:12	12292253.D	5	22L0155-36RE2	
54	30-DEC-2022 03:33	12292254.D	5	22L0155-37RE2	
55	30-DEC-2022 03:54	12292255.D	5	22L0155-39RE2	
56	30-DEC-2022 04:15	12292256.D	5	22L0155-40RE2	
57	30-DEC-2022 04:37	12292257.D	5	22L0155-46RE2	
58	30-DEC-2022 04:58	12292258.D	5	22L0155-47RE2	
59	30-DEC-2022 05:19	12292259.D	5	22L0155-48RE2	
60	30-DEC-2022 05:40	12292260.D	5	22L0155-31RE2	
61	30-DEC-2022 06:01	12292261.D	5	22L0155-33RE2	
62	30-DEC-2022 06:22	12292262.D	5	22L0155-63RE2	
63	30-DEC-2022 06:43	12292263.D	1	AR1242CCV9	
64	30-DEC-2022 07:04	12292264.D	1	AR1660CCVA	
65	30-DEC-2022 07:26	12292265.D	10	22L0155-26RE2	
66	30-DEC-2022 07:47	12292266.D	10	22L0155-35RE2	
67	30-DEC-2022 08:08	12292267.D	10	22L0155-61RE2	
68	30-DEC-2022 08:29	12292268.D	10	22L0155-62RE2	
69	30-DEC-2022 08:50	12292269.D	1	AR1254CCVB	
70	30-DEC-2022 09:11	12292270.D	1	AR1660CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 29-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0854	12292201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0915	12292202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0936	12292203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0957	12292204ECD7.D	BKL0653-BLK		1	NO MANUAL INTEGRATION
1019	12292205ECD7.D	BKL0653-BS1		1	NO MANUAL INTEGRATION
1040	12292206ECD7.D	BKL0653-BSD1		1	NO MANUAL INTEGRATION
1101	12292207ECD7.D	22L0430-01		1	NO MANUAL INTEGRATION
1122	12292208ECD7.D	22L0430-01RE1		10	NO MANUAL INTEGRATION
1143	12292209ECD7.D	BKL0631-BLK1		1	NO MANUAL INTEGRATION
1204	12292210ECD7.D	BKL0631-BS1		1	NO MANUAL INTEGRATION
1225	12292211ECD7.D	BKL0631-BSD1		1	NO MANUAL INTEGRATION
1246	12292212ECD7.D	BKL0631-MRL1		1	NO MANUAL INTEGRATION
1307	12292213ECD7.D	22L0568-01		1	IS-HBBP, Decachlorobiphenyl,
1328	12292214ECD7.D	22L0568-01RE1		5	IS-HBBP, Decachlorobiphenyl,
1349	12292215ECD7.D	BKL0442-BLK1		1	NO MANUAL INTEGRATION
1411	12292216ECD7.D	BKL0442-BS1		1	NO MANUAL INTEGRATION
1432	12292217ECD7.D	BKL0442-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1453	12292218ECD7.D	22L0416-83		1	NO MANUAL INTEGRATION
1514	12292219ECD7.D	22L0416-84		1	NO MANUAL INTEGRATION
1535	12292220ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1556	12292221ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1617	12292222ECD7.D	BKL0506-BLK1		1	NO MANUAL INTEGRATION
1638	12292223ECD7.D	BKL0506-BS1		1	NO MANUAL INTEGRATION
1700	12292224ECD7.D	BKL0506-BSD1		1	NO MANUAL INTEGRATION
1721	12292225ECD7.D	BKL0506-MRL1		1	NO MANUAL INTEGRATION
1742	12292226ECD7.D	22L0445-01		1	NO MANUAL INTEGRATION
1803	12292227ECD7.D	22L0461-01		1	NO MANUAL INTEGRATION
1824	12292228ECD7.D	22L0461-02		1	NO MANUAL INTEGRATION
1845	12292229ECD7.D	22L0461-03		1	NO MANUAL INTEGRATION
1906	12292230ECD7.D	22L0461-04		1	NO MANUAL INTEGRATION
1927	12292231ECD7.D	22L0461-05		1	NO MANUAL INTEGRATION
1948	12292232ECD7.D	22L0461-06		1	NO MANUAL INTEGRATION
2010	12292233ECD7.D	AR1242CCV3		1	Aroclor-1242,
2031	12292234ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2052	12292235ECD7.D	22L0199-41		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-HBBP, Decachlorobiphenyl,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2113	12292236ECD7.D	22L0199-42		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-HBBP,
2134	12292237ECD7.D	22L0199-43		1	NO MANUAL INTEGRATION
2155	12292238ECD7.D	22L0199-44RE1		5	NO MANUAL INTEGRATION
2216	12292239ECD7.D	22L0199-45RE1		5	NO MANUAL INTEGRATION
2237	12292240ECD7.D	BKL0401-MSD1		1	NO MANUAL INTEGRATION
2258	12292241ECD7.D	22L0199-01		1	Aroclor-1254,
2320	12292242ECD7.D	22L0199-02RE1		5	Aroclor-1254,
2341	12292243ECD7.D	22L0199-03RE1		5	Aroclor-1254,
0002	12292244ECD7.D	22L0199-07		1	Aroclor-1254,
0023	12292245ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0044	12292246ECD7.D	AR1660CCV6		1	Aroclor-1016, Aroclor-1260,
0105	12292247ECD7.D	22L0199-08		1	NO MANUAL INTEGRATION
0126	12292248ECD7.D	22L0199-09		1	NO MANUAL INTEGRATION
0147	12292249ECD7.D	22L0199-13		1	NO MANUAL INTEGRATION
0208	12292250ECD7.D	22L0199-15		1	NO MANUAL INTEGRATION
0230	12292251ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0251	12292252ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0312	12292253ECD7.D	22L0155-36RE2		5	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0333	12292254ECD7.D	22L0155-37RE2		5	Aroclor-1254,
0354	12292255ECD7.D	22L0155-39RE2		5	Aroclor-1254,
0415	12292256ECD7.D	22L0155-40RE2		5	Aroclor-1254,
0437	12292257ECD7.D	22L0155-46RE2		5	Aroclor-1254,
0458	12292258ECD7.D	22L0155-47RE2		5	Aroclor-1254,
0519	12292259ECD7.D	22L0155-48RE2		5	Aroclor-1254,
0540	12292260ECD7.D	22L0155-31RE2		5	NO MANUAL INTEGRATION
0601	12292261ECD7.D	22L0155-33RE2		5	NO MANUAL INTEGRATION
0622	12292262ECD7.D	22L0155-63RE2		5	Aroclor-1254,
0643	12292263ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
0704	12292264ECD7.D	AR1660CCVA		1	Aroclor-1016, Tetrachloro-m-xylene,
0726	12292265ECD7.D	22L0155-26RE2		10	Aroclor-1254,
0747	12292266ECD7.D	22L0155-35RE2		10	Aroclor-1254,
0808	12292267ECD7.D	22L0155-61RE2		10	Aroclor-1254,
0829	12292268ECD7.D	22L0155-62RE2		10	Aroclor-1254,
0850	12292269ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
0911	12292270ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION
0854	12292201ECD7.D	DDTS		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b\221229.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0915	12292202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0936	12292203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0957	12292204ECD7.D	BKL0653-BLK		1	NO MANUAL INTEGRATION
1019	12292205ECD7.D	BKL0653-BS1		1	NO MANUAL INTEGRATION
1040	12292206ECD7.D	BKL0653-BSD1		1	NO MANUAL INTEGRATION
1101	12292207ECD7.D	22L0430-01		1	NO MANUAL INTEGRATION
1122	12292208ECD7.D	22L0430-01RE1		10	NO MANUAL INTEGRATION
1143	12292209ECD7.D	BKL0631-BLK1		1	NO MANUAL INTEGRATION
1204	12292210ECD7.D	BKL0631-BS1		1	NO MANUAL INTEGRATION
1225	12292211ECD7.D	BKL0631-BSD1		1	NO MANUAL INTEGRATION
1246	12292212ECD7.D	BKL0631-MRL1		1	NO MANUAL INTEGRATION
1307	12292213ECD7.D	22L0568-01		1	NO MANUAL INTEGRATION
1328	12292214ECD7.D	22L0568-01RE1		5	NO MANUAL INTEGRATION
1349	12292215ECD7.D	BKL0442-BLK1		1	NO MANUAL INTEGRATION
1411	12292216ECD7.D	BKL0442-BS1		1	NO MANUAL INTEGRATION
1432	12292217ECD7.D	BKL0442-BSD1		1	NO MANUAL INTEGRATION
1453	12292218ECD7.D	22L0416-83		1	NO MANUAL INTEGRATION
1514	12292219ECD7.D	22L0416-84		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b\221229.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1535	12292220ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1556	12292221ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1617	12292222ECD7.D	BKL0506-BLK1		1	NO MANUAL INTEGRATION
1638	12292223ECD7.D	BKL0506-BS1		1	NO MANUAL INTEGRATION
1700	12292224ECD7.D	BKL0506-BSD1		1	NO MANUAL INTEGRATION
1721	12292225ECD7.D	BKL0506-MRL1		1	NO MANUAL INTEGRATION
1742	12292226ECD7.D	22L0445-01		1	NO MANUAL INTEGRATION
1803	12292227ECD7.D	22L0461-01		1	NO MANUAL INTEGRATION
1824	12292228ECD7.D	22L0461-02		1	NO MANUAL INTEGRATION
1845	12292229ECD7.D	22L0461-03		1	NO MANUAL INTEGRATION
1906	12292230ECD7.D	22L0461-04		1	NO MANUAL INTEGRATION
1927	12292231ECD7.D	22L0461-05		1	NO MANUAL INTEGRATION
1948	12292232ECD7.D	22L0461-06		1	NO MANUAL INTEGRATION
2010	12292233ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2031	12292234ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2052	12292235ECD7.D	22L0199-41		1	Aroclor-1248 [2C], Aroclor-1254 [2C], Decachlorobiphenyl [2C],
2113	12292236ECD7.D	22L0199-42		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
2134	12292237ECD7.D	22L0199-43		1	Aroclor-1248 [2C], Aroclor-1254 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221229.b\221229.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2155	12292238ECD7.D	22L0199-44RE1		5	NO MANUAL INTEGRATION
2216	12292239ECD7.D	22L0199-45RE1		5	NO MANUAL INTEGRATION
2237	12292240ECD7.D	BKL0401-MSD1		1	NO MANUAL INTEGRATION
2258	12292241ECD7.D	22L0199-01		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
2320	12292242ECD7.D	22L0199-02RE1		5	NO MANUAL INTEGRATION
2341	12292243ECD7.D	22L0199-03RE1		5	Aroclor-1248 [2C],
0002	12292244ECD7.D	22L0199-07		1	Aroclor-1248 [2C],
0023	12292245ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0044	12292246ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0105	12292247ECD7.D	22L0199-08		1	NO MANUAL INTEGRATION
0126	12292248ECD7.D	22L0199-09		1	NO MANUAL INTEGRATION
0147	12292249ECD7.D	22L0199-13		1	NO MANUAL INTEGRATION
0208	12292250ECD7.D	22L0199-15		1	NO MANUAL INTEGRATION
0230	12292251ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0251	12292252ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0312	12292253ECD7.D	22L0155-36RE2		5	Aroclor-1248 [2C],
0333	12292254ECD7.D	22L0155-37RE2		5	Aroclor-1248 [2C],
0354	12292255ECD7.D	22L0155-39RE2		5	Aroclor-1248 [2C],

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Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0415	12292256ECD7.D	22L0155-40RE2		5	NO MANUAL INTEGRATION
0437	12292257ECD7.D	22L0155-46RE2		5	NO MANUAL INTEGRATION
0458	12292258ECD7.D	22L0155-47RE2		5	Aroclor-1248 [2C],
0519	12292259ECD7.D	22L0155-48RE2		5	Aroclor-1248 [2C],
0540	12292260ECD7.D	22L0155-31RE2		5	NO MANUAL INTEGRATION
0601	12292261ECD7.D	22L0155-33RE2		5	NO MANUAL INTEGRATION
0622	12292262ECD7.D	22L0155-63RE2		5	Aroclor-1248 [2C],
0643	12292263ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
0704	12292264ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
0726	12292265ECD7.D	22L0155-26RE2		10	Aroclor-1248 [2C],
0747	12292266ECD7.D	22L0155-35RE2		10	Aroclor-1248 [2C], Aroclor-1254 [2C],
0808	12292267ECD7.D	22L0155-61RE2		10	Aroclor-1248 [2C],
0829	12292268ECD7.D	22L0155-62RE2		10	Aroclor-1248 [2C],
0850	12292269ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
0911	12292270ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 03-Jan-2023 13:02

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Security Status Report

Date: 03-Jan-2023 14:38

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Security Status Report

Date: 06-Jan-2023 08:52

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Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0377-ICV1	12272202ECD7.D	12272202ECD7.D	NA	12/27/22 17:00
Initial Cal Check	SKL0377-ICV2	12272203ECD7.D	12272203ECD7.D	NA	12/27/22 17:21
Blank	BKL0404-BLK1	12272209ECD7.D	12272209ECD7.D	Solid	12/27/22 19:28
LCS	BKL0404-BS1	12272210ECD7.D	12272210ECD7.D	Solid	12/27/22 19:49
LCS Dup	BKL0404-BSD1	12272211ECD7.D	12272211ECD7.D	Solid	12/27/22 20:10
Reference	BKL0404-SRM1	12272212ECD7.D	12272212ECD7.D	Solid	12/27/22 20:31
LDW22-SC787K	BKL0404-MS1	12272213ECD7.D	12272213ECD7.D	Solid	12/27/22 20:52
LDW22-SC787K	BKL0404-MSD1	12272214ECD7.D	12272214ECD7.D	Solid	12/27/22 21:13
Calibration Check	SKL0377-CCV1	12272215ECD7.D	12272215ECD7.D	NA	12/27/22 21:35
Calibration Check	SKL0377-CCV2	12272216ECD7.D	12272216ECD7.D	NA	12/27/22 21:56
LDW22-SC787K	22L0199-46	12272222ECD7.D	12272222ECD7.D	Solid	12/28/22 00:02
LDW22-SC787L	22L0199-47	12272223ECD7.D	12272223ECD7.D	Solid	12/28/22 00:23
LDW22-SC761A	22L0199-48	12272224ECD7.D	12272224ECD7.D	Solid	12/28/22 00:45
Calibration Check	SKL0377-CCV3	12272227ECD7.D	12272227ECD7.D	NA	12/28/22 01:48
Calibration Check	SKL0377-CCV4	12272228ECD7.D	12272228ECD7.D	NA	12/28/22 02:09
LDW22-SC761E	22L0199-53	12272231ECD7.D	12272231ECD7.D	Solid	12/28/22 03:12
LDW22-SC761G	22L0199-55	12272233ECD7.D	12272233ECD7.D	Solid	12/28/22 03:55
LDW22-SC761H	22L0199-56	12272234ECD7.D	12272234ECD7.D	Solid	12/28/22 04:16
LDW22-SC761I	22L0199-57	12272235ECD7.D	12272235ECD7.D	Solid	12/28/22 04:37
LDW22-SC761J	22L0199-58	12272236ECD7.D	12272236ECD7.D	Solid	12/28/22 04:58
LDW22-SC761K	22L0199-59	12272237ECD7.D	12272237ECD7.D	Solid	12/28/22 05:19
LDW22-SC761L	22L0199-60	12272238ECD7.D	12272238ECD7.D	Solid	12/28/22 05:40
Calibration Check	SKL0377-CCV5	12272239ECD7.D	12272239ECD7.D	NA	12/28/22 06:01
Calibration Check	SKL0377-CCV6	12272240ECD7.D	12272240ECD7.D	NA	12/28/22 06:22
Blank	BKL0401-BLK1	12272241ECD7.D	12272241ECD7.D	Solid	12/28/22 06:43
LCS	BKL0401-BS1	12272242ECD7.D	12272242ECD7.D	Solid	12/28/22 07:05
LCS Dup	BKL0401-BSD1	12272243ECD7.D	12272243ECD7.D	Solid	12/28/22 07:26
Reference	BKL0401-SRM1	12272244ECD7.D	12272244ECD7.D	Solid	12/28/22 07:47
LDW22-IT789G	BKL0401-MS1	12272245ECD7.D	12272245ECD7.D	Solid	12/28/22 08:08

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Calibration Check	SKL0377-CCV7	12272247ECD7.D	12272247ECD7.D	NA	12/28/22 08:50
Calibration Check	SKL0377-CCV8	12272248ECD7.D	12272248ECD7.D	NA	12/28/22 09:11
LDW22-SC762E	22L0199-05	12272253ECD7.D	12272253ECD7.D	Solid	12/28/22 10:57
LDW22-SC762F	22L0199-06	12272254ECD7.D	12272254ECD7.D	Solid	12/28/22 11:18
LDW22-SC762H	22L0199-08	12272256ECD7.D	12272256ECD7.D	Solid	12/28/22 12:00
LDW22-SC762J	22L0199-10	12272258ECD7.D	12272258ECD7.D	Solid	12/28/22 12:42
Calibration Check	SKL0377-CCV9	12272259ECD7.D	12272259ECD7.D	NA	12/28/22 13:03
Calibration Check	SKL0377-CCVA	12272260ECD7.D	12272260ECD7.D	NA	12/28/22 13:24
LDW22-IT789F	22L0199-11	12272261ECD7.D	12272261ECD7.D	Solid	12/28/22 13:45
LDW22-IT789G	22L0199-12	12272262ECD7.D	12272262ECD7.D	Solid	12/28/22 14:06
LDW22-IT789I	22L0199-14	12272264ECD7.D	12272264ECD7.D	Solid	12/28/22 14:49
LDW22-IT789J	22L0199-16	12272266ECD7.D	12272266ECD7.D	Solid	12/28/22 15:31
LDW22-IT789K	22L0199-17	12272267ECD7.D	12272267ECD7.D	Solid	12/28/22 15:52
LDW22-IT789L	22L0199-18	12272268ECD7.D	12272268ECD7.D	Solid	12/28/22 16:13
LDW22-IT790I	22L0199-19	12272269ECD7.D	12272269ECD7.D	Solid	12/28/22 16:34
LDW22-IT790J	22L0199-20	12272270ECD7.D	12272270ECD7.D	Solid	12/28/22 16:55
Calibration Check	SKL0377-CCVB	12272271ECD7.D	12272271ECD7.D	NA	12/28/22 17:16
Calibration Check	SKL0377-CCVC	12272272ECD7.D	12272272ECD7.D	NA	12/28/22 17:38

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SKL0377

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 3:28:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0377-ICV1	QC		1		K006957	K006953		
SKL0377-ICV2	QC		2		K006954	K006953		
22L0156-03	8082A PCB Solid 4	B 01	3			K006953	Anchor QEA, LLC	
22L0156-04	8082A PCB Solid 4	B 01	4			K006953	Anchor QEA, LLC	
BKL0366-MS1	QC		5			K006953		
BKL0366-MSD1	QC		6			K006953		
22L0156-05	8082A PCB Solid 4	B 01	7			K006953	Anchor QEA, LLC	
BKL0404-BLK1	QC		8			K006953		
BKL0404-BS1	QC		9			K006953		
BKL0404-BSD1	QC		10			K006953		
BKL0404-SRM1	QC		11			K006953		
BKL0404-MS1	QC		12			K006953		
BKL0404-MSD1	QC		13			K006953		
SKL0377-CCV1	QC		14		K006956	K006953		
SKL0377-CCV2	QC		15		K006954	K006953		
22L0199-46	8082A PCB Solid 4	B 01	16			K006953	Anchor QEA, LLC	
22L0199-47	8082A PCB Solid 4	B 01	17			K006953	Anchor QEA, LLC	
22L0199-48	8082A PCB Solid 4	B 01	18			K006953	Anchor QEA, LLC	
SKL0377-CCV3	QC		19		K006955	K006953		
SKL0377-CCV4	QC		20		K006954	K006953		
22L0199-53	8082A PCB Solid 4	B 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0377

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 3:28:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
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22L0199-56	8082A PCB Solid 4	B 01	23			K006953	Anchor QEA, LLC	
22L0199-57	8082A PCB Solid 4	B 01	24			K006953	Anchor QEA, LLC	
22L0199-58	8082A PCB Solid 4	B 01	25			K006953	Anchor QEA, LLC	
22L0199-59	8082A PCB Solid 4	B 01	26			K006953	Anchor QEA, LLC	
22L0199-60	8082A PCB Solid 4	B 01	27			K006953	Anchor QEA, LLC	
SKL0377-CCV5	QC		28		K006957	K006953		
SKL0377-CCV6	QC		29		K006954	K006953		
BKL0401-BLK1	QC		30			K006953		
BKL0401-BS1	QC		31			K006953		
BKL0401-BSD1	QC		32			K006953		
BKL0401-SRM1	QC		33			K006953		
BKL0401-MS1	QC		34			K006953		
BKL0401-MSD1	QC		35			K006953		
SKL0377-CCV7	QC		36		K006956	K006953		
SKL0377-CCV8	QC		37		K006954	K006953		
22L0199-05	8082A PCB Solid 4	B 01	38			K006953	Anchor QEA, LLC	
22L0199-06	8082A PCB Solid 4	B 01	39			K006953	Anchor QEA, LLC	
22L0199-08	8082A PCB Solid 4	B 01	40			K006953	Anchor QEA, LLC	
22L0199-10	8082A PCB Solid 4	B 01	41			K006953	Anchor QEA, LLC	
SKL0377-CCV9	QC		42		K006955	K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0377

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 3:28:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0377-CCVA	QC		43		K006954	K006953		
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22L0199-12	8082A PCB Solid 4	B 01	45			K006953	Anchor QEA, LLC	
22L0199-14	8082A PCB Solid 4	B 01	46			K006953	Anchor QEA, LLC	
22L0199-16	8082A PCB Solid 4	B 01	47			K006953	Anchor QEA, LLC	
22L0199-17	8082A PCB Solid 4	B 01	48			K006953	Anchor QEA, LLC	
22L0199-18	8082A PCB Solid 4	B 01	49			K006953	Anchor QEA, LLC	
22L0199-19	8082A PCB Solid 4	B 01	50			K006953	Anchor QEA, LLC	
22L0199-20	8082A PCB Solid 4	B 01	51			K006953	Anchor QEA, LLC	
SKL0377-CCVB	QC		52		K006957	K006953		
SKL0377-CCVC	QC		53		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	27-DEC-2022 16:39	12272201ECD7.D	1	DDTS	
2	27-DEC-2022 17:00	12272202ECD7.D	1	AR1254ICV1	
3	27-DEC-2022 17:21	12272203ECD7.D	1	AR1660ICV2	
4	27-DEC-2022 17:42	12272204ECD7.D	1	22L0156-03	
5	27-DEC-2022 18:03	12272205ECD7.D	1	22L0156-04	
6	27-DEC-2022 18:24	12272206ECD7.D	1	BKL0366-MS1	
7	27-DEC-2022 18:45	12272207ECD7.D	1	BKL0366-MSD1	
8	27-DEC-2022 19:07	12272208ECD7.D	1	22L0156-05	
9	27-DEC-2022 19:28	12272209ECD7.D	1	BKL0404-BLK1	
10	27-DEC-2022 19:49	12272210ECD7.D	1	BKL0404-BS1	
11	27-DEC-2022 20:10	12272211ECD7.D	1	BKL0404-BSD1	
12	27-DEC-2022 20:31	12272212ECD7.D	1	BKL0404-SRM1	
13	27-DEC-2022 20:52	12272213ECD7.D	1	BKL0404-MS1	
14	27-DEC-2022 21:13	12272214ECD7.D	1	BKL0404-MSD1	
15	27-DEC-2022 21:35	12272215ECD7.D	1	AR1248CCV1	
16	27-DEC-2022 21:56	12272216ECD7.D	1	AR1660CCV2	
17	27-DEC-2022 22:17	12272217ECD7.D	1	22L0199-41	
18	27-DEC-2022 22:38	12272218ECD7.D	1	22L0199-42	
19	27-DEC-2022 22:59	12272219ECD7.D	1	22L0199-43	
20	27-DEC-2022 23:20	12272220ECD7.D	1	22L0199-44	
21	27-DEC-2022 23:41	12272221ECD7.D	1	22L0199-45	
22	28-DEC-2022 00:02	12272222ECD7.D	1	22L0199-46	
23	28-DEC-2022 00:23	12272223ECD7.D	1	22L0199-47	
24	28-DEC-2022 00:45	12272224ECD7.D	1	22L0199-48	
25	28-DEC-2022 01:06	12272225ECD7.D	1	22L0199-49	
26	28-DEC-2022 01:27	12272226ECD7.D	1	22L0199-50	
27	28-DEC-2022 01:48	12272227ECD7.D	1	AR1242CCV3	
28	28-DEC-2022 02:09	12272228ECD7.D	1	AR1660CCV4	
29	28-DEC-2022 02:30	12272229ECD7.D	1	22L0199-51	
30	28-DEC-2022 02:51	12272230ECD7.D	1	22L0199-52	
31	28-DEC-2022 03:12	12272231ECD7.D	1	22L0199-53	
32	28-DEC-2022 03:33	12272232ECD7.D	1	22L0199-54	
33	28-DEC-2022 03:55	12272233ECD7.D	1	22L0199-55	
34	28-DEC-2022 04:16	12272234ECD7.D	1	22L0199-56	
35	28-DEC-2022 04:37	12272235ECD7.D	1	22L0199-57	
36	28-DEC-2022 04:58	12272236ECD7.D	1	22L0199-58	
37	28-DEC-2022 05:19	12272237ECD7.D	1	22L0199-59	
38	28-DEC-2022 05:40	12272238ECD7.D	1	22L0199-60	
39	28-DEC-2022 06:01	12272239ECD7.D	1	AR1254CCV5	
40	28-DEC-2022 06:22	12272240ECD7.D	1	AR1660CCV6	
41	28-DEC-2022 06:43	12272241ECD7.D	1	BKL0401-BLK1	
42	28-DEC-2022 07:05	12272242ECD7.D	1	BKL0401-BS1	
43	28-DEC-2022 07:26	12272243ECD7.D	1	BKL0401-BSD1	
44	28-DEC-2022 07:47	12272244ECD7.D	1	BKL0401-SRM1	
45	28-DEC-2022 08:08	12272245ECD7.D	1	BKL0401-MS1	
46	28-DEC-2022 08:29	12272246ECD7.D	1	BKL0401-MSD1	
47	28-DEC-2022 08:50	12272247ECD7.D	1	AR1248CCV7	
48	28-DEC-2022 09:11	12272248ECD7.D	1	AR1660CCV8	
49	28-DEC-2022 09:32	12272249ECD7.D	1	22L0199-01	
50	28-DEC-2022 09:53	12272250ECD7.D	1	22L0199-02	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	28-DEC-2022 10:14	12272251ECD7.D	1	22L0199-03	
52	28-DEC-2022 10:35	12272252ECD7.D	1	22L0199-04	
53	28-DEC-2022 10:57	12272253ECD7.D	1	22L0199-05	
54	28-DEC-2022 11:18	12272254ECD7.D	1	22L0199-06	
55	28-DEC-2022 11:39	12272255ECD7.D	1	22L0199-07	
56	28-DEC-2022 12:00	12272256ECD7.D	1	22L0199-08	
57	28-DEC-2022 12:21	12272257ECD7.D	1	22L0199-09	
58	28-DEC-2022 12:42	12272258ECD7.D	1	22L0199-10	
59	28-DEC-2022 13:03	12272259ECD7.D	1	AR1242CCV9	
60	28-DEC-2022 13:24	12272260ECD7.D	1	AR1660CCVA	
61	28-DEC-2022 13:45	12272261ECD7.D	1	22L0199-11	
62	28-DEC-2022 14:06	12272262ECD7.D	1	22L0199-12	
63	28-DEC-2022 14:28	12272263ECD7.D	1	22L0199-13	
64	28-DEC-2022 14:49	12272264ECD7.D	1	22L0199-14	
65	28-DEC-2022 15:10	12272265ECD7.D	1	22L0199-15	
66	28-DEC-2022 15:31	12272266ECD7.D	1	22L0199-16	
67	28-DEC-2022 15:52	12272267ECD7.D	1	22L0199-17	
68	28-DEC-2022 16:13	12272268ECD7.D	1	22L0199-18	
69	28-DEC-2022 16:34	12272269ECD7.D	1	22L0199-19	
70	28-DEC-2022 16:55	12272270ECD7.D	1	22L0199-20	
71	28-DEC-2022 17:16	12272271ECD7.D	1	AR1254CCVB	
72	28-DEC-2022 17:38	12272272ECD7.D	1	AR1660CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 27-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1639	12272201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1700	12272202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1721	12272203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1742	12272204ECD7.D	22L0156-03		1	Aroclor-1254, Aroclor-1260,
1803	12272205ECD7.D	22L0156-04		1	NO MANUAL INTEGRATION
1824	12272206ECD7.D	BKL0366-MS1		1	NO MANUAL INTEGRATION
1845	12272207ECD7.D	BKL0366-MSD1		1	NO MANUAL INTEGRATION
1907	12272208ECD7.D	22L0156-05		1	NO MANUAL INTEGRATION
1928	12272209ECD7.D	BKL0404-BLK1		1	NO MANUAL INTEGRATION
1949	12272210ECD7.D	BKL0404-BS1		1	NO MANUAL INTEGRATION
2010	12272211ECD7.D	BKL0404-BSD1		1	NO MANUAL INTEGRATION
2031	12272212ECD7.D	BKL0404-SRM1		1	NO MANUAL INTEGRATION
2052	12272213ECD7.D	BKL0404-MS1		1	NO MANUAL INTEGRATION
2113	12272214ECD7.D	BKL0404-MSD1		1	NO MANUAL INTEGRATION
2135	12272215ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
2156	12272216ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
2217	12272217ECD7.D	22L0199-41		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2238	12272218ECD7.D	22L0199-42		1	NO MANUAL INTEGRATION
2259	12272219ECD7.D	22L0199-43		1	NO MANUAL INTEGRATION
2320	12272220ECD7.D	22L0199-44		1	NO MANUAL INTEGRATION
2341	12272221ECD7.D	22L0199-45		1	NO MANUAL INTEGRATION
0002	12272222ECD7.D	22L0199-46		1	Aroclor-1254,
0023	12272223ECD7.D	22L0199-47		1	Aroclor-1248, Aroclor-1254, IS-BNB, Tetrachloro-m-xylene,
0045	12272224ECD7.D	22L0199-48		1	NO MANUAL INTEGRATION
0106	12272225ECD7.D	22L0199-49		1	NO MANUAL INTEGRATION
0127	12272226ECD7.D	22L0199-50		1	NO MANUAL INTEGRATION
0148	12272227ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
0209	12272228ECD7.D	AR1660CCV4		1	Aroclor-1260,
0230	12272229ECD7.D	22L0199-51		1	NO MANUAL INTEGRATION
0251	12272230ECD7.D	22L0199-52		1	NO MANUAL INTEGRATION
0312	12272231ECD7.D	22L0199-53		1	NO MANUAL INTEGRATION
0333	12272232ECD7.D	22L0199-54		1	NO MANUAL INTEGRATION
0355	12272233ECD7.D	22L0199-55		1	NO MANUAL INTEGRATION
0416	12272234ECD7.D	22L0199-56		1	NO MANUAL INTEGRATION
0437	12272235ECD7.D	22L0199-57		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0458	12272236ECD7.D	22L0199-58		1	NO MANUAL INTEGRATION
0519	12272237ECD7.D	22L0199-59		1	NO MANUAL INTEGRATION
0540	12272238ECD7.D	22L0199-60		1	NO MANUAL INTEGRATION
0601	12272239ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0622	12272240ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0643	12272241ECD7.D	BKL0401-BLK1		1	NO MANUAL INTEGRATION
0705	12272242ECD7.D	BKL0401-BS1		1	NO MANUAL INTEGRATION
0726	12272243ECD7.D	BKL0401-BSD1		1	NO MANUAL INTEGRATION
0747	12272244ECD7.D	BKL0401-SRM1		1	NO MANUAL INTEGRATION
0808	12272245ECD7.D	BKL0401-MS1		1	NO MANUAL INTEGRATION
0829	12272246ECD7.D	BKL0401-MSD1		1	NO MANUAL INTEGRATION
0850	12272247ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0911	12272248ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0932	12272249ECD7.D	22L0199-01		1	NO MANUAL INTEGRATION
0953	12272250ECD7.D	22L0199-02		1	NO MANUAL INTEGRATION
1014	12272251ECD7.D	22L0199-03		1	NO MANUAL INTEGRATION
1035	12272252ECD7.D	22L0199-04		1	NO MANUAL INTEGRATION
1057	12272253ECD7.D	22L0199-05		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1118	12272254ECD7.D	22L0199-06		1	Aroclor-1254,
1139	12272255ECD7.D	22L0199-07		1	NO MANUAL INTEGRATION
1200	12272256ECD7.D	22L0199-08		1	NO MANUAL INTEGRATION
1221	12272257ECD7.D	22L0199-09		1	NO MANUAL INTEGRATION
1242	12272258ECD7.D	22L0199-10		1	NO MANUAL INTEGRATION
1303	12272259ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1324	12272260ECD7.D	AR1660CCVA		1	Aroclor-1016, Aroclor-1260, Tetrachloro-m-xylene,
1345	12272261ECD7.D	22L0199-11		1	NO MANUAL INTEGRATION
1406	12272262ECD7.D	22L0199-12		1	NO MANUAL INTEGRATION
1428	12272263ECD7.D	22L0199-13		1	NO MANUAL INTEGRATION
1449	12272264ECD7.D	22L0199-14		1	NO MANUAL INTEGRATION
1510	12272265ECD7.D	22L0199-15		1	NO MANUAL INTEGRATION
1531	12272266ECD7.D	22L0199-16		1	NO MANUAL INTEGRATION
1552	12272267ECD7.D	22L0199-17		1	NO MANUAL INTEGRATION
1613	12272268ECD7.D	22L0199-18		1	NO MANUAL INTEGRATION
1634	12272269ECD7.D	22L0199-19		1	NO MANUAL INTEGRATION
1655	12272270ECD7.D	22L0199-20		1	NO MANUAL INTEGRATION
1716	12272271ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1738	12272272ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION
1639	12272201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1700	12272202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1721	12272203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1742	12272204ECD7.D	22L0156-03		1	NO MANUAL INTEGRATION
1803	12272205ECD7.D	22L0156-04		1	NO MANUAL INTEGRATION
1824	12272206ECD7.D	BKL0366-MS1		1	NO MANUAL INTEGRATION
1845	12272207ECD7.D	BKL0366-MSD1		1	NO MANUAL INTEGRATION
1907	12272208ECD7.D	22L0156-05		1	NO MANUAL INTEGRATION
1928	12272209ECD7.D	BKL0404-BLK1		1	NO MANUAL INTEGRATION
1949	12272210ECD7.D	BKL0404-BS1		1	NO MANUAL INTEGRATION
2010	12272211ECD7.D	BKL0404-BSD1		1	NO MANUAL INTEGRATION
2031	12272212ECD7.D	BKL0404-SRM1		1	NO MANUAL INTEGRATION
2052	12272213ECD7.D	BKL0404-MS1		1	NO MANUAL INTEGRATION
2113	12272214ECD7.D	BKL0404-MSD1		1	NO MANUAL INTEGRATION
2135	12272215ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
2156	12272216ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
2217	12272217ECD7.D	22L0199-41		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2238	12272218ECD7.D	22L0199-42		1	NO MANUAL INTEGRATION
2259	12272219ECD7.D	22L0199-43		1	NO MANUAL INTEGRATION
2320	12272220ECD7.D	22L0199-44		1	NO MANUAL INTEGRATION
2341	12272221ECD7.D	22L0199-45		1	NO MANUAL INTEGRATION
0002	12272222ECD7.D	22L0199-46		1	NO MANUAL INTEGRATION
0023	12272223ECD7.D	22L0199-47		1	NO MANUAL INTEGRATION
0045	12272224ECD7.D	22L0199-48		1	NO MANUAL INTEGRATION
0106	12272225ECD7.D	22L0199-49		1	NO MANUAL INTEGRATION
0127	12272226ECD7.D	22L0199-50		1	NO MANUAL INTEGRATION
0148	12272227ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
0209	12272228ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
0230	12272229ECD7.D	22L0199-51		1	NO MANUAL INTEGRATION
0251	12272230ECD7.D	22L0199-52		1	NO MANUAL INTEGRATION
0312	12272231ECD7.D	22L0199-53		1	NO MANUAL INTEGRATION
0333	12272232ECD7.D	22L0199-54		1	NO MANUAL INTEGRATION
0355	12272233ECD7.D	22L0199-55		1	NO MANUAL INTEGRATION
0416	12272234ECD7.D	22L0199-56		1	NO MANUAL INTEGRATION
0437	12272235ECD7.D	22L0199-57		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0458	12272236ECD7.D	22L0199-58		1	NO MANUAL INTEGRATION
0519	12272237ECD7.D	22L0199-59		1	NO MANUAL INTEGRATION
0540	12272238ECD7.D	22L0199-60		1	NO MANUAL INTEGRATION
0601	12272239ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0622	12272240ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0643	12272241ECD7.D	BKL0401-BLK1		1	NO MANUAL INTEGRATION
0705	12272242ECD7.D	BKL0401-BS1		1	NO MANUAL INTEGRATION
0726	12272243ECD7.D	BKL0401-BSD1		1	NO MANUAL INTEGRATION
0747	12272244ECD7.D	BKL0401-SRM1		1	NO MANUAL INTEGRATION
0808	12272245ECD7.D	BKL0401-MS1		1	NO MANUAL INTEGRATION
0829	12272246ECD7.D	BKL0401-MSD1		1	NO MANUAL INTEGRATION
0850	12272247ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0911	12272248ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0932	12272249ECD7.D	22L0199-01		1	NO MANUAL INTEGRATION
0953	12272250ECD7.D	22L0199-02		1	NO MANUAL INTEGRATION
1014	12272251ECD7.D	22L0199-03		1	NO MANUAL INTEGRATION
1035	12272252ECD7.D	22L0199-04		1	NO MANUAL INTEGRATION
1057	12272253ECD7.D	22L0199-05		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1118	12272254ECD7.D	22L0199-06		1	NO MANUAL INTEGRATION
1139	12272255ECD7.D	22L0199-07		1	NO MANUAL INTEGRATION
1200	12272256ECD7.D	22L0199-08		1	Tetrachloro-m-xylene [2C],
1221	12272257ECD7.D	22L0199-09		1	NO MANUAL INTEGRATION
1242	12272258ECD7.D	22L0199-10		1	NO MANUAL INTEGRATION
1303	12272259ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1324	12272260ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1345	12272261ECD7.D	22L0199-11		1	NO MANUAL INTEGRATION
1406	12272262ECD7.D	22L0199-12		1	NO MANUAL INTEGRATION
1428	12272263ECD7.D	22L0199-13		1	NO MANUAL INTEGRATION
1449	12272264ECD7.D	22L0199-14		1	NO MANUAL INTEGRATION
1510	12272265ECD7.D	22L0199-15		1	NO MANUAL INTEGRATION
1531	12272266ECD7.D	22L0199-16		1	NO MANUAL INTEGRATION
1552	12272267ECD7.D	22L0199-17		1	NO MANUAL INTEGRATION
1613	12272268ECD7.D	22L0199-18		1	NO MANUAL INTEGRATION
1634	12272269ECD7.D	22L0199-19		1	NO MANUAL INTEGRATION
1655	12272270ECD7.D	22L0199-20		1	NO MANUAL INTEGRATION
1716	12272271ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221227.b\221227.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1738	12272272ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 30-Dec-2022 15:16

12272201ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272202ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272203ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272204ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
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12272208ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272209ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272210ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272211ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272212ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
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12272217ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272218ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272219ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272220ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272221ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272222ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272223ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272224ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272225ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272226ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272227ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
12272228ECD7.D	Data Locked	richardl, 30-Dec-2022 15:16
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Security Status Report

Date: 03-Jan-2023 14:57

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Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0035
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0035-ICV1	12302202ECD7.D	12302202ECD7.D	NA	12/30/22 11:41
Initial Cal Check	SLA0035-ICV2	12302203ECD7.D	12302203ECD7.D	NA	12/30/22 12:02
Calibration Check	SLA0035-CCV1	12302208ECD7.D	12302208ECD7.D	NA	12/30/22 13:47
Calibration Check	SLA0035-CCV2	12302209ECD7.D	12302209ECD7.D	NA	12/30/22 14:09
Blank	BKL0402-BLK1	12302210ECD7.D	12302210ECD7.D	Solid	12/30/22 14:30
LCS	BKL0402-BS1	12302211ECD7.D	12302211ECD7.D	Solid	12/30/22 14:51
LCS Dup	BKL0402-BSD1	12302212ECD7.D	12302212ECD7.D	Solid	12/30/22 15:12
Reference	BKL0402-SRM1	12302213ECD7.D	12302213ECD7.D	Solid	12/30/22 15:33
LDW22-IT790K	BKL0402-MS1	12302214ECD7.D	12302214ECD7.D	Solid	12/30/22 15:54
LDW22-IT790K	BKL0402-MSD1	12302215ECD7.D	12302215ECD7.D	Solid	12/30/22 16:15
LDW22-IT790K	22L0199-21	12302216ECD7.D	12302216ECD7.D	Solid	12/30/22 16:36
LDW22-IT790L	22L0199-22	12302217ECD7.D	12302217ECD7.D	Solid	12/30/22 16:58
LDW22-IT790M	22L0199-23	12302218ECD7.D	12302218ECD7.D	Solid	12/30/22 17:19
Calibration Check	SLA0035-CCV3	12302225ECD7.D	12302225ECD7.D	NA	12/30/22 19:46
Calibration Check	SLA0035-CCV4	12302226ECD7.D	12302226ECD7.D	NA	12/30/22 20:08
Calibration Check	SLA0035-CCV5	12302237ECD7.D	12302237ECD7.D	NA	12/31/22 00:00
Calibration Check	SLA0035-CCV6	12302238ECD7.D	12302238ECD7.D	NA	12/31/22 00:21

Analytical Resources, LLC
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ANALYSIS SEQUENCE

SLA0035

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/4/2023 1:27:47PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0035-ICV1	QC		1		K006957	K006953		
SLA0035-ICV2	QC		2		K006954	K006953		
BKL0632-BLK1	QC		3			K006953		
BKL0632-BS1	QC		4			K006953		
BKL0632-BSD1	QC		5			K006953		
22L0570-01	8082A PCB Water 0.01	J 01	6			K006953	DH Environmental Inc	
SLA0035-CCV1	QC		7		K006956	K006953		
SLA0035-CCV2	QC		8		K006954	K006953		
BKL0402-BLK1	QC		9			K006953		
BKL0402-BS1	QC		10			K006953		
BKL0402-BSD1	QC		11			K006953		
BKL0402-SRM1	QC		12			K006953		
BKL0402-MS1	QC		13			K006953		
BKL0402-MSD1	QC		14			K006953		
22L0199-21	8082A PCB Solid 4	B 01	15			K006953	Anchor QEA, LLC	
22L0199-22	8082A PCB Solid 4	B 01	16			K006953	Anchor QEA, LLC	
22L0199-23	8082A PCB Solid 4	B 01	17			K006953	Anchor QEA, LLC	
22L0199-25	8082A PCB Solid 4	B 01	18			K006953	Anchor QEA, LLC	
22L0199-26	8082A PCB Solid 4	B 01	19			K006953	Anchor QEA, LLC	
22L0199-27	8082A PCB Solid 4	B 01	20			K006953	Anchor QEA, LLC	
22L0199-28	8082A PCB Solid 4	B 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0035

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/4/2023 1:27:47PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0199-29	8082A PCB Solid 4	B 01	22			K006953	Anchor QEA, LLC	
22L0199-30	8082A PCB Solid 4	B 01	23			K006953	Anchor QEA, LLC	
SLA0035-CCV3	QC		24		K006955	K006953		
SLA0035-CCV4	QC		25		K006954	K006953		
22L0199-33	8082A PCB Solid 4	B 01	26			K006953	Anchor QEA, LLC	
22L0199-34	8082A PCB Solid 4	B 01	27			K006953	Anchor QEA, LLC	
22L0199-35	8082A PCB Solid 4	B 01	28			K006953	Anchor QEA, LLC	
22L0199-36	8082A PCB Solid 4	B 01	29			K006953	Anchor QEA, LLC	
22L0199-37	8082A PCB Solid 4	B 01	30			K006953	Anchor QEA, LLC	
22L0199-38	8082A PCB Solid 4	B 01	31			K006953	Anchor QEA, LLC	
22L0199-39	8082A PCB Solid 4	B 01	32			K006953	Anchor QEA, LLC	
22L0199-40	8082A PCB Solid 4	B 01	33			K006953	Anchor QEA, LLC	
SLA0035-CCV5	QC		34		K006957	K006953		
SLA0035-CCV6	QC		35		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221230.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	30-DEC-2022 11:20	12302201.D	1	DDTS	
2	30-DEC-2022 11:41	12302202.D	1	AR1254ICV1	
3	30-DEC-2022 12:02	12302203.D	1	AR1660ICV2	
4	30-DEC-2022 12:23	12302204.D	1	BKL0632-BLK1	
5	30-DEC-2022 12:44	12302205.D	1	BKL0632-BS1	
6	30-DEC-2022 13:05	12302206.D	1	BKL0632-BSD1	
7	30-DEC-2022 13:26	12302207.D	1	22L0570-01	
8	30-DEC-2022 13:47	12302208.D	1	AR1248CCV1	
9	30-DEC-2022 14:09	12302209.D	1	AR1660CCV2	
10	30-DEC-2022 14:30	12302210.D	1	BKL0402-BLK1	
11	30-DEC-2022 14:51	12302211.D	1	BKL0402-BS1	
12	30-DEC-2022 15:12	12302212.D	1	BKL0402-BSD1	
13	30-DEC-2022 15:33	12302213.D	1	BKL0402-SRM1	
14	30-DEC-2022 15:54	12302214.D	1	BKL0402-MS1	
15	30-DEC-2022 16:15	12302215.D	1	BKL0402-MSD1	
16	30-DEC-2022 16:36	12302216.D	1	22L0199-21	
17	30-DEC-2022 16:58	12302217.D	1	22L0199-22	
18	30-DEC-2022 17:19	12302218.D	1	22L0199-23	
19	30-DEC-2022 17:40	12302219.D	1	22L0199-25	
20	30-DEC-2022 18:01	12302220.D	1	22L0199-26	
21	30-DEC-2022 18:22	12302221.D	1	22L0199-27	
22	30-DEC-2022 18:43	12302222.D	1	22L0199-28	
23	30-DEC-2022 19:04	12302223.D	1	22L0199-29	
24	30-DEC-2022 19:25	12302224.D	1	22L0199-30	
25	30-DEC-2022 19:46	12302225.D	1	AR1242CCV3	
26	30-DEC-2022 20:08	12302226.D	1	AR1660CCV4	
27	30-DEC-2022 20:29	12302227.D	1	22L0199-31	
28	30-DEC-2022 20:50	12302228.D	1	22L0199-32	
29	30-DEC-2022 21:11	12302229.D	1	22L0199-33	
30	30-DEC-2022 21:32	12302230.D	1	22L0199-34	
31	30-DEC-2022 21:53	12302231.D	1	22L0199-35	
32	30-DEC-2022 22:14	12302232.D	1	22L0199-36	
33	30-DEC-2022 22:35	12302233.D	1	22L0199-37	
34	30-DEC-2022 22:57	12302234.D	1	22L0199-38	
35	30-DEC-2022 23:18	12302235.D	1	22L0199-39	
36	30-DEC-2022 23:39	12302236.D	1	22L0199-40	
37	31-DEC-2022 00:00	12302237.D	1	AR1254CCV5	
38	31-DEC-2022 00:21	12302238.D	1	AR1660CCV6	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221230.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 30-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1120	12302201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1141	12302202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1202	12302203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1223	12302204ECD7.D	BKL0632-BLK1		1	NO MANUAL INTEGRATION
1244	12302205ECD7.D	BKL0632-BS1		1	NO MANUAL INTEGRATION
1305	12302206ECD7.D	BKL0632-BSD1		1	NO MANUAL INTEGRATION
1326	12302207ECD7.D	22L0570-01		1	NO MANUAL INTEGRATION
1347	12302208ECD7.D	AR1248CCV1		1	Aroclor-1248,
1409	12302209ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1430	12302210ECD7.D	BKL0402-BLK1		1	NO MANUAL INTEGRATION
1451	12302211ECD7.D	BKL0402-BS1		1	NO MANUAL INTEGRATION
1512	12302212ECD7.D	BKL0402-BSD1		1	NO MANUAL INTEGRATION
1533	12302213ECD7.D	BKL0402-SRM1		1	NO MANUAL INTEGRATION
1554	12302214ECD7.D	BKL0402-MS1		1	NO MANUAL INTEGRATION
1615	12302215ECD7.D	BKL0402-MSD1		1	NO MANUAL INTEGRATION
1636	12302216ECD7.D	22L0199-21		1	Tetrachloro-m-xylene,
1658	12302217ECD7.D	22L0199-22		1	Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221230.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1719	12302218ECD7.D	22L0199-23		1	NO MANUAL INTEGRATION
1740	12302219ECD7.D	22L0199-25		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, Tetrachloro-m-xylene,
1801	12302220ECD7.D	22L0199-26		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-BNB, IS-HBBP, Tetrachloro-m-xylene, Decachlorobiphenyl,
1822	12302221ECD7.D	22L0199-27		1	Aroclor-1254,
1843	12302222ECD7.D	22L0199-28		1	Aroclor-1248, Aroclor-1254,
1904	12302223ECD7.D	22L0199-29		1	NO MANUAL INTEGRATION
1925	12302224ECD7.D	22L0199-30		1	NO MANUAL INTEGRATION
1946	12302225ECD7.D	AR1242CCV3		1	Aroclor-1242,
2008	12302226ECD7.D	AR1660CCV4		1	Aroclor-1016, Aroclor-1260, Tetrachloro-m-xylene,
2029	12302227ECD7.D	22L0199-31		1	NO MANUAL INTEGRATION
2050	12302228ECD7.D	22L0199-32		1	NO MANUAL INTEGRATION
2111	12302229ECD7.D	22L0199-33		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
2132	12302230ECD7.D	22L0199-34		1	Tetrachloro-m-xylene,
2153	12302231ECD7.D	22L0199-35		1	NO MANUAL INTEGRATION
2214	12302232ECD7.D	22L0199-36		1	Aroclor-1254,
2235	12302233ECD7.D	22L0199-37		1	Aroclor-1254,
2257	12302234ECD7.D	22L0199-38		1	Aroclor-1254,
2318	12302235ECD7.D	22L0199-39		1	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221230.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2339	12302236ECD7.D	22L0199-40		1	Aroclor-1254,
0000	12302237ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0021	12302238ECD7.D	AR1660CCV6		1	Aroclor-1260,
1120	12302201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1141	12302202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1202	12302203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1223	12302204ECD7.D	BKL0632-BLK1		1	NO MANUAL INTEGRATION
1244	12302205ECD7.D	BKL0632-BS1		1	NO MANUAL INTEGRATION
1305	12302206ECD7.D	BKL0632-BSD1		1	NO MANUAL INTEGRATION
1326	12302207ECD7.D	22L0570-01		1	NO MANUAL INTEGRATION
1347	12302208ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1409	12302209ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1430	12302210ECD7.D	BKL0402-BLK1		1	NO MANUAL INTEGRATION
1451	12302211ECD7.D	BKL0402-BS1		1	NO MANUAL INTEGRATION
1512	12302212ECD7.D	BKL0402-BSD1		1	NO MANUAL INTEGRATION
1533	12302213ECD7.D	BKL0402-SRM1		1	NO MANUAL INTEGRATION
1554	12302214ECD7.D	BKL0402-MS1		1	NO MANUAL INTEGRATION
1615	12302215ECD7.D	BKL0402-MSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221230.b\221230.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1636	12302216ECD7.D	22L0199-21		1	NO MANUAL INTEGRATION
1658	12302217ECD7.D	22L0199-22		1	NO MANUAL INTEGRATION
1719	12302218ECD7.D	22L0199-23		1	NO MANUAL INTEGRATION
1740	12302219ECD7.D	22L0199-25		1	Aroclor-1254 [2C],
1801	12302220ECD7.D	22L0199-26		1	Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C],
1822	12302221ECD7.D	22L0199-27		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1843	12302222ECD7.D	22L0199-28		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1904	12302223ECD7.D	22L0199-29		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1925	12302224ECD7.D	22L0199-30		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1946	12302225ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2008	12302226ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2029	12302227ECD7.D	22L0199-31		1	NO MANUAL INTEGRATION
2050	12302228ECD7.D	22L0199-32		1	NO MANUAL INTEGRATION
2111	12302229ECD7.D	22L0199-33		1	Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
2132	12302230ECD7.D	22L0199-34		1	NO MANUAL INTEGRATION
2153	12302231ECD7.D	22L0199-35		1	NO MANUAL INTEGRATION
2214	12302232ECD7.D	22L0199-36		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
2235	12302233ECD7.D	22L0199-37		1	Aroclor-1248 [2C], Aroclor-1254 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221230.b\221230.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2257	12302234ECD7.D	22L0199-38		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
2318	12302235ECD7.D	22L0199-39		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
2339	12302236ECD7.D	22L0199-40		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
0000	12302237ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0021	12302238ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 14:48

12302201ECD7.D	Data Locked	richardl, 04-Jan-2023 14:48
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12302237ECD7.D	Data Locked	richardl, 04-Jan-2023 14:48
12302238ECD7.D	Data Locked	richardl, 04-Jan-2023 14:48

Security Status Report

Date: 06-Jan-2023 09:06

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12302235ECD7.D	Data Locked	richardl, 06-Jan-2023 09:06
12302236ECD7.D	Data Locked	richardl, 06-Jan-2023 09:06
12302237ECD7.D	Data Locked	richardl, 06-Jan-2023 09:06
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Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0071
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0071-CCV5	12312250ECD7.D	12312250ECD7.D	NA	01/01/23 03:22
Calibration Check	SLA0071-CCV6	12312251ECD7.D	12312251ECD7.D	NA	01/01/23 03:43
LDW22-SC762D	22L0199-04	12312252ECD7.D	12312252ECD7.D	Solid	01/01/23 04:04
LDW22-SC761B	22L0199-49	12312253ECD7.D	12312253ECD7.D	Solid	01/01/23 04:25
LDW22-SC761C	22L0199-50	12312254ECD7.D	12312254ECD7.D	Solid	01/01/23 04:46
LDW22-SC761D	22L0199-51	12312255ECD7.D	12312255ECD7.D	Solid	01/01/23 05:07
LDW22-SC761D-FD	22L0199-52	12312256ECD7.D	12312256ECD7.D	Solid	01/01/23 05:29
LDW22-SC761F	22L0199-54	12312257ECD7.D	12312257ECD7.D	Solid	01/01/23 05:50
Calibration Check	SLA0071-CCV7	12312258ECD7.D	12312258ECD7.D	NA	01/01/23 06:11
Calibration Check	SLA0071-CCV8	12312259ECD7.D	12312259ECD7.D	NA	01/01/23 06:32
Initial Cal Check	SLA0071-ICV1	12312202ECD7.D	12312202ECD7.D	NA	12/31/22 10:31
Initial Cal Check	SLA0071-ICV2	12312203ECD7.D	12312203ECD7.D	NA	12/31/22 10:52
Blank	BKL0488-BLK1	12312204ECD7.D	12312204ECD7.D	Solid	12/31/22 11:13
LCS	BKL0488-BS1	12312205ECD7.D	12312205ECD7.D	Solid	12/31/22 11:34
LCS Dup	BKL0488-BSD1	12312206ECD7.D	12312206ECD7.D	Solid	12/31/22 11:55
Reference	BKL0488-SRM1	12312207ECD7.D	12312207ECD7.D	Solid	12/31/22 12:16
LDW22-SC758K	BKL0488-MS1	12312208ECD7.D	12312208ECD7.D	Solid	12/31/22 12:37
LDW22-SC758K	BKL0488-MSD1	12312209ECD7.D	12312209ECD7.D	Solid	12/31/22 12:58
LDW22-SC758D	22L0199-63	12312212ECD7.D	12312212ECD7.D	Solid	12/31/22 14:02
LDW22-SC758E	22L0199-64	12312213ECD7.D	12312213ECD7.D	Solid	12/31/22 14:23
LDW22-SC758F	22L0199-65	12312214ECD7.D	12312214ECD7.D	Solid	12/31/22 14:44
LDW22-SC758G	22L0199-66	12312215ECD7.D	12312215ECD7.D	Solid	12/31/22 15:05
LDW22-SC758H	22L0199-67	12312216ECD7.D	12312216ECD7.D	Solid	12/31/22 15:26
LDW22-SC758I	22L0199-68	12312217ECD7.D	12312217ECD7.D	Solid	12/31/22 15:47
LDW22-SC758J	22L0199-69	12312218ECD7.D	12312218ECD7.D	Solid	12/31/22 16:08
LDW22-SC758K	22L0199-70	12312219ECD7.D	12312219ECD7.D	Solid	12/31/22 16:29
Calibration Check	SLA0071-CCV1	12312220ECD7.D	12312220ECD7.D	NA	12/31/22 16:50
Calibration Check	SLA0071-CCV2	12312221ECD7.D	12312221ECD7.D	NA	12/31/22 17:11
Calibration Check	SLA0071-CCV3	12312238ECD7.D	12312238ECD7.D	NA	12/31/22 23:10

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0071	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0071-CCV4	12312239ECD7.D	12312239ECD7.D	NA	12/31/22 23:31

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0071

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/6/2023 12:46:56PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0071-ICV1	QC		1		K006957	K006953		
SLA0071-ICV2	QC		2		K006954	K006953		
BKL0488-BLK1	QC		3			K006953		
BKL0488-BS1	QC		4			K006953		
BKL0488-BSD1	QC		5			K006953		
BKL0488-SRM1	QC		6			K006953		
BKL0488-MS1	QC		7			K006953		
BKL0488-MSD1	QC		8			K006953		
22L0199-63	8082A PCB Solid 4	B 01	9			K006953	Anchor QEA, LLC	
22L0199-64	8082A PCB Solid 4	B 01	10			K006953	Anchor QEA, LLC	
22L0199-65	8082A PCB Solid 4	B 01	11			K006953	Anchor QEA, LLC	
22L0199-66	8082A PCB Solid 4	B 01	12			K006953	Anchor QEA, LLC	
22L0199-67	8082A PCB Solid 4	B 01	13			K006953	Anchor QEA, LLC	
22L0199-68	8082A PCB Solid 4	B 01	14			K006953	Anchor QEA, LLC	
22L0199-69	8082A PCB Solid 4	B 01	15			K006953	Anchor QEA, LLC	
22L0199-70	8082A PCB Solid 4	B 01	16			K006953	Anchor QEA, LLC	
SLA0071-CCV1	QC		17		K006956	K006953		
SLA0071-CCV2	QC		18		K006954	K006953		
BKL0581-BLK1	QC		19			K006953		
BKL0581-BS1	QC		20			K006953		
BKL0581-BSD1	QC		21			K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0071

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/6/2023 12:46:56PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
BKL0581-SRM1	QC		22			K006953		
BKL0581-MS1	QC		23			K006953		
BKL0581-MSD1	QC		24			K006953		
22L0307-01	8082A PCB Solid 4	B 01	25			K006953	Anchor QEA, LLC	
22L0307-02	8082A PCB Solid 4	B 01	26			K006953	Anchor QEA, LLC	
22L0307-03	8082A PCB Solid 4	B 01	27			K006953	Anchor QEA, LLC	
22L0307-04	8082A PCB Solid 4	B 01	28			K006953	Anchor QEA, LLC	
22L0307-05	8082A PCB Solid 4	B 01	29			K006953	Anchor QEA, LLC	
22L0307-06	8082A PCB Solid 4	B 01	30			K006953	Anchor QEA, LLC	
22L0307-07	8082A PCB Solid 4	B 01	31			K006953	Anchor QEA, LLC	
SLA0071-CCV3	QC		32		K006955	K006953		
SLA0071-CCV4	QC		33		K006954	K006953		
22L0307-11	8082A PCB Solid 4	B 01	34			K006953	Anchor QEA, LLC	
22L0307-12	8082A PCB Solid 4	B 01	35			K006953	Anchor QEA, LLC	
22L0307-13	8082A PCB Solid 4	B 01	36			K006953	Anchor QEA, LLC	
22L0307-14	8082A PCB Solid 4	B 01	37			K006953	Anchor QEA, LLC	
22L0307-15	8082A PCB Solid 4	B 01	38			K006953	Anchor QEA, LLC	
22L0307-16	8082A PCB Solid 4	B 01	39			K006953	Anchor QEA, LLC	
22L0307-17	8082A PCB Solid 4	B 01	40			K006953	Anchor QEA, LLC	
22L0307-18	8082A PCB Solid 4	B 01	41			K006953	Anchor QEA, LLC	
22L0307-19	8082A PCB Solid 4	B 01	42			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0071

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/6/2023 12:46:56PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0307-20	8082A PCB Solid 4	B 01	43			K006953	Anchor QEA, LLC	
SLA0071-CCV5	QC		44		K006957	K006953		
SLA0071-CCV6	QC		45		K006954	K006953		
22L0199-04	8082A PCB Solid 4	B 01	46			K006953	Anchor QEA, LLC	
22L0199-49	8082A PCB Solid 4	B 01	47			K006953	Anchor QEA, LLC	
22L0199-50	8082A PCB Solid 4	B 01	48			K006953	Anchor QEA, LLC	
22L0199-51	8082A PCB Solid 4	B 01	49			K006953	Anchor QEA, LLC	
22L0199-52	8082A PCB Solid 4	B 01	50			K006953	Anchor QEA, LLC	
22L0199-54	8082A PCB Solid 4	B 01	51			K006953	Anchor QEA, LLC	
SLA0071-CCV7	QC		52		K006956	K006953		
SLA0071-CCV8	QC		53		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	31-DEC-2022 10:10	12312201.D	1	DDTS	
2	31-DEC-2022 10:31	12312202.D	1	AR1254ICV1	
3	31-DEC-2022 10:52	12312203.D	1	AR1660ICV2	
4	31-DEC-2022 11:13	12312204.D	1	BKL0488-BLK1	
5	31-DEC-2022 11:34	12312205.D	1	BKL0488-BS1	
6	31-DEC-2022 11:55	12312206.D	1	BKL0488-BSD1	
7	31-DEC-2022 12:16	12312207.D	1	BKL0488-SRM1	
8	31-DEC-2022 12:37	12312208.D	1	BKL0488-MS1	
9	31-DEC-2022 12:58	12312209.D	1	BKL0488-MSD1	
10	31-DEC-2022 13:19	12312210.D	1	22L0199-61	
11	31-DEC-2022 13:40	12312211.D	1	22L0199-62	
12	31-DEC-2022 14:02	12312212.D	1	22L0199-63	
13	31-DEC-2022 14:23	12312213.D	1	22L0199-64	
14	31-DEC-2022 14:44	12312214.D	1	22L0199-65	
15	31-DEC-2022 15:05	12312215.D	1	22L0199-66	
16	31-DEC-2022 15:26	12312216.D	1	22L0199-67	
17	31-DEC-2022 15:47	12312217.D	1	22L0199-68	
18	31-DEC-2022 16:08	12312218.D	1	22L0199-69	
19	31-DEC-2022 16:29	12312219.D	1	22L0199-70	
20	31-DEC-2022 16:50	12312220.D	1	AR1248CCV1	
21	31-DEC-2022 17:11	12312221.D	1	AR1660CCV2	
22	31-DEC-2022 17:32	12312222.D	1	BKL0581-BLK1	
23	31-DEC-2022 17:53	12312223.D	1	BKL0581-BS1	
24	31-DEC-2022 18:14	12312224.D	1	BKL0581-BSD1	
25	31-DEC-2022 18:36	12312225.D	1	BKL0581-SRM1	
26	31-DEC-2022 18:57	12312226.D	1	BKL0581-MS1	
27	31-DEC-2022 19:18	12312227.D	1	BKL0581-MSD1	
28	31-DEC-2022 19:39	12312228.D	1	22L0307-01	
29	31-DEC-2022 20:00	12312229.D	1	22L0307-02	
30	31-DEC-2022 20:21	12312230.D	1	22L0307-03	
31	31-DEC-2022 20:42	12312231.D	1	22L0307-04	
32	31-DEC-2022 21:03	12312232.D	1	22L0307-05	
33	31-DEC-2022 21:24	12312233.D	1	22L0307-06	
34	31-DEC-2022 21:45	12312234.D	1	22L0307-07	
35	31-DEC-2022 22:06	12312235.D	1	22L0307-08	
36	31-DEC-2022 22:27	12312236.D	1	22L0307-09	
37	31-DEC-2022 22:48	12312237.D	1	22L0307-10	
38	31-DEC-2022 23:10	12312238.D	1	AR1242CCV3	
39	31-DEC-2022 23:31	12312239.D	1	AR1660CCV4	
40	31-DEC-2022 23:52	12312240.D	1	22L0307-11	
41	01-JAN-2023 00:13	12312241.D	1	22L0307-12	
42	01-JAN-2023 00:34	12312242.D	1	22L0307-13	
43	01-JAN-2023 00:55	12312243.D	1	22L0307-14	
44	01-JAN-2023 01:16	12312244.D	1	22L0307-15	
45	01-JAN-2023 01:37	12312245.D	1	22L0307-16	
46	01-JAN-2023 01:58	12312246.D	1	22L0307-17	
47	01-JAN-2023 02:19	12312247.D	1	22L0307-18	
48	01-JAN-2023 02:40	12312248.D	1	22L0307-19	
49	01-JAN-2023 03:01	12312249.D	1	22L0307-20	
50	01-JAN-2023 03:22	12312250.D	1	AR1254CCV5	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	01-JAN-2023 03:43	12312251.D	1	AR1660CCV6	
52	01-JAN-2023 04:04	12312252.D	10	22L0199-04RE1	
53	01-JAN-2023 04:25	12312253.D	10	22L0199-49RE1	
54	01-JAN-2023 04:46	12312254.D	5	22L0199-50RE1	
55	01-JAN-2023 05:07	12312255.D	5	22L0199-51RE1	
56	01-JAN-2023 05:29	12312256.D	5	22L0199-52RE1	
57	01-JAN-2023 05:50	12312257.D	10	22L0199-54RE1	
58	01-JAN-2023 06:11	12312258.D	1	AR1248CCV7	
59	01-JAN-2023 06:32	12312259.D	1	AR1660CCV8	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 31-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1010	12312201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1031	12312202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1052	12312203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1113	12312204ECD7.D	BKL0488-BLK1		1	NO MANUAL INTEGRATION
1134	12312205ECD7.D	BKL0488-BS1		1	NO MANUAL INTEGRATION
1155	12312206ECD7.D	BKL0488-BSD1		1	NO MANUAL INTEGRATION
1216	12312207ECD7.D	BKL0488-SRM1		1	NO MANUAL INTEGRATION
1237	12312208ECD7.D	BKL0488-MS1		1	NO MANUAL INTEGRATION
1258	12312209ECD7.D	BKL0488-MSD1		1	NO MANUAL INTEGRATION
1319	12312210ECD7.D	22L0199-61		1	NO MANUAL INTEGRATION
1340	12312211ECD7.D	22L0199-62		1	NO MANUAL INTEGRATION
1402	12312212ECD7.D	22L0199-63		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
1423	12312213ECD7.D	22L0199-64		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, Tetrachloro-m-xylene,
1444	12312214ECD7.D	22L0199-65		1	Aroclor-1254,
1505	12312215ECD7.D	22L0199-66		1	NO MANUAL INTEGRATION
1526	12312216ECD7.D	22L0199-67		1	NO MANUAL INTEGRATION
1547	12312217ECD7.D	22L0199-68		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1608	12312218ECD7.D	22L0199-69		1	NO MANUAL INTEGRATION
1629	12312219ECD7.D	22L0199-70		1	NO MANUAL INTEGRATION
1650	12312220ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1711	12312221ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1732	12312222ECD7.D	BKL0581-BLK1		1	NO MANUAL INTEGRATION
1753	12312223ECD7.D	BKL0581-BS1		1	NO MANUAL INTEGRATION
1814	12312224ECD7.D	BKL0581-BSD1		1	NO MANUAL INTEGRATION
1836	12312225ECD7.D	BKL0581-SRM1		1	NO MANUAL INTEGRATION
1857	12312226ECD7.D	BKL0581-MS1		1	NO MANUAL INTEGRATION
1918	12312227ECD7.D	BKL0581-MSD1		1	NO MANUAL INTEGRATION
1939	12312228ECD7.D	22L0307-01		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, Tetrachloro-m-xylene,
2000	12312229ECD7.D	22L0307-02		1	Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
2021	12312230ECD7.D	22L0307-03		1	NO MANUAL INTEGRATION
2042	12312231ECD7.D	22L0307-04		1	NO MANUAL INTEGRATION
2103	12312232ECD7.D	22L0307-05		1	NO MANUAL INTEGRATION
2124	12312233ECD7.D	22L0307-06		1	NO MANUAL INTEGRATION
2145	12312234ECD7.D	22L0307-07		1	NO MANUAL INTEGRATION
2206	12312235ECD7.D	22L0307-08		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2227	12312236ECD7.D	22L0307-09		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
2248	12312237ECD7.D	22L0307-10		1	NO MANUAL INTEGRATION
2310	12312238ECD7.D	AR1242CCV3		1	Aroclor-1242,
2331	12312239ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2352	12312240ECD7.D	22L0307-11		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, Tetrachloro-m-xylene,
0013	12312241ECD7.D	22L0307-12		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, Tetrachloro-m-xylene,
0034	12312242ECD7.D	22L0307-13		1	Aroclor-1254, Tetrachloro-m-xylene,
0055	12312243ECD7.D	22L0307-14		1	Aroclor-1254,
0116	12312244ECD7.D	22L0307-15		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
0137	12312245ECD7.D	22L0307-16		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
0158	12312246ECD7.D	22L0307-17		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-BNB, IS-HBBP, Tetrachloro-m-xylene, Decachlorobiphenyl,
0219	12312247ECD7.D	22L0307-18		1	Aroclor-1254,
0240	12312248ECD7.D	22L0307-19		1	NO MANUAL INTEGRATION
0301	12312249ECD7.D	22L0307-20		1	NO MANUAL INTEGRATION
0322	12312250ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0343	12312251ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0404	12312252ECD7.D	22L0199-04RE1		10	NO MANUAL INTEGRATION
0425	12312253ECD7.D	22L0199-49RE1		10	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0446	12312254ECD7.D	22L0199-50RE1		5	Aroclor-1254,
0507	12312255ECD7.D	22L0199-51RE1		5	Aroclor-1254,
0529	12312256ECD7.D	22L0199-52RE1		5	Aroclor-1254,
0550	12312257ECD7.D	22L0199-54RE1		10	Aroclor-1254,
0611	12312258ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0632	12312259ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
1010	12312201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1031	12312202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1052	12312203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1113	12312204ECD7.D	BKL0488-BLK1		1	NO MANUAL INTEGRATION
1134	12312205ECD7.D	BKL0488-BS1		1	NO MANUAL INTEGRATION
1155	12312206ECD7.D	BKL0488-BSD1		1	NO MANUAL INTEGRATION
1216	12312207ECD7.D	BKL0488-SRM1		1	NO MANUAL INTEGRATION
1237	12312208ECD7.D	BKL0488-MS1		1	NO MANUAL INTEGRATION
1258	12312209ECD7.D	BKL0488-MSD1		1	NO MANUAL INTEGRATION
1319	12312210ECD7.D	22L0199-61		1	NO MANUAL INTEGRATION
1340	12312211ECD7.D	22L0199-62		1	NO MANUAL INTEGRATION
1402	12312212ECD7.D	22L0199-63		1	Aroclor-1248 [2C], Aroclor-1254 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b\221231.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1423	12312213ECD7.D	22L0199-64		1	Aroclor-1248 [2C],
1444	12312214ECD7.D	22L0199-65		1	Aroclor-1248 [2C],
1505	12312215ECD7.D	22L0199-66		1	NO MANUAL INTEGRATION
1526	12312216ECD7.D	22L0199-67		1	NO MANUAL INTEGRATION
1547	12312217ECD7.D	22L0199-68		1	NO MANUAL INTEGRATION
1608	12312218ECD7.D	22L0199-69		1	NO MANUAL INTEGRATION
1629	12312219ECD7.D	22L0199-70		1	NO MANUAL INTEGRATION
1650	12312220ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1711	12312221ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1732	12312222ECD7.D	BKL0581-BLK1		1	NO MANUAL INTEGRATION
1753	12312223ECD7.D	BKL0581-BS1		1	NO MANUAL INTEGRATION
1814	12312224ECD7.D	BKL0581-BSD1		1	NO MANUAL INTEGRATION
1836	12312225ECD7.D	BKL0581-SRM1		1	NO MANUAL INTEGRATION
1857	12312226ECD7.D	BKL0581-MS1		1	NO MANUAL INTEGRATION
1918	12312227ECD7.D	BKL0581-MSD1		1	NO MANUAL INTEGRATION
1939	12312228ECD7.D	22L0307-01		1	Aroclor-1248 [2C],
2000	12312229ECD7.D	22L0307-02		1	NO MANUAL INTEGRATION
2021	12312230ECD7.D	22L0307-03		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b\221231.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2042	12312231ECD7.D	22L0307-04		1	NO MANUAL INTEGRATION
2103	12312232ECD7.D	22L0307-05		1	NO MANUAL INTEGRATION
2124	12312233ECD7.D	22L0307-06		1	NO MANUAL INTEGRATION
2145	12312234ECD7.D	22L0307-07		1	NO MANUAL INTEGRATION
2206	12312235ECD7.D	22L0307-08		1	NO MANUAL INTEGRATION
2227	12312236ECD7.D	22L0307-09		1	Aroclor-1248 [2C],
2248	12312237ECD7.D	22L0307-10		1	NO MANUAL INTEGRATION
2310	12312238ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2331	12312239ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2352	12312240ECD7.D	22L0307-11		1	Aroclor-1248 [2C],
0013	12312241ECD7.D	22L0307-12		1	Aroclor-1248 [2C],
0034	12312242ECD7.D	22L0307-13		1	NO MANUAL INTEGRATION
0055	12312243ECD7.D	22L0307-14		1	NO MANUAL INTEGRATION
0116	12312244ECD7.D	22L0307-15		1	Aroclor-1248 [2C],
0137	12312245ECD7.D	22L0307-16		1	Aroclor-1248 [2C],
0158	12312246ECD7.D	22L0307-17		1	Aroclor-1248 [2C],
0219	12312247ECD7.D	22L0307-18		1	Aroclor-1248 [2C],
0240	12312248ECD7.D	22L0307-19		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221231.b\221231.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0301	12312249ECD7.D	22L0307-20		1	NO MANUAL INTEGRATION
0322	12312250ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0343	12312251ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0404	12312252ECD7.D	22L0199-04RE1		10	Aroclor-1248 [2C],
0425	12312253ECD7.D	22L0199-49RE1		10	Aroclor-1248 [2C],
0446	12312254ECD7.D	22L0199-50RE1		5	Aroclor-1248 [2C],
0507	12312255ECD7.D	22L0199-51RE1		5	Aroclor-1248 [2C],
0529	12312256ECD7.D	22L0199-52RE1		5	Aroclor-1248 [2C],
0550	12312257ECD7.D	22L0199-54RE1		10	Aroclor-1248 [2C],
0611	12312258ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0632	12312259ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION

Security Status Report

Date: 06-Jan-2023 12:48

12312201ECD7.D	Data Locked	richardl, 06-Jan-2023 12:48
12312202ECD7.D	Data Locked	richardl, 06-Jan-2023 12:48
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12312257ECD7.D	Data Locked	richardl, 06-Jan-2023 12:48
12312258ECD7.D	Data Locked	richardl, 06-Jan-2023 12:48
12312259ECD7.D	Data Locked	richardl, 06-Jan-2023 12:48

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0079-ICV1	01032302ECD7.D	01032302ECD7.D	NA	01/03/23 07:15
Initial Cal Check	SLA0079-ICV2	01032303ECD7.D	01032303ECD7.D	NA	01/03/23 07:36
LDW22-SC758B	22L0199-61	01032304ECD7.D	01032304ECD7.D	Solid	01/03/23 09:20
LDW22-SC758C	22L0199-62	01032305ECD7.D	01032305ECD7.D	Solid	01/03/23 09:41
LDW22-SC802H	22L0199-31	01032309ECD7.D	01032309ECD7.D	Solid	01/03/23 11:06
LDW22-SC802I	22L0199-32	01032310ECD7.D	01032310ECD7.D	Solid	01/03/23 11:27
Calibration Check	SLA0079-CCV1	01032311ECD7.D	01032311ECD7.D	NA	01/03/23 11:48
Calibration Check	SLA0079-CCV2	01032312ECD7.D	01032312ECD7.D	NA	01/03/23 12:09
LDW22-SC787I	22L0199-44	01032327ECD7.D	01032327ECD7.D	Solid	01/03/23 17:25
LDW22-SC787J	22L0199-45	01032328ECD7.D	01032328ECD7.D	Solid	01/03/23 17:46
Calibration Check	SLA0079-CCV3	01032330ECD7.D	01032330ECD7.D	NA	01/03/23 18:28
Calibration Check	SLA0079-CCV4	01032331ECD7.D	01032331ECD7.D	NA	01/03/23 18:49
Calibration Check	SLA0079-CCV5	01032347ECD7.D	01032347ECD7.D	NA	01/04/23 00:26
Calibration Check	SLA0079-CCV6	01032348ECD7.D	01032348ECD7.D	NA	01/04/23 00:47

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0079

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/7/2023 2:12:46PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0079-ICV1	QC		1		K006957	K006953		
SLA0079-ICV2	QC		2		K006954	K006953		
22L0199-61	8082A PCB Solid 4	B 01	3			K006953	Anchor QEA, LLC	
22L0199-62	8082A PCB Solid 4	B 01	4			K006953	Anchor QEA, LLC	
22L0307-08	8082A PCB Solid 4	B 01	5			K006953	Anchor QEA, LLC	
22L0307-09	8082A PCB Solid 4	B 01	6			K006953	Anchor QEA, LLC	
22L0307-10	8082A PCB Solid 4	B 01	7			K006953	Anchor QEA, LLC	
22L0199-31	8082A PCB Solid 4	B 01	8			K006953	Anchor QEA, LLC	
22L0199-32	8082A PCB Solid 4	B 01	9			K006953	Anchor QEA, LLC	
SLA0079-CCV1	QC		10		K006956	K006953		
SLA0079-CCV2	QC		11		K006954	K006953		
BKL0633-BLK1	QC		12			K006953		
BKL0633-BS1	QC		13			K006953		
BKL0633-BSD1	QC		14			K006953		
BKL0633-MRL1	QC		15			K006953		
22L0567-01	8082A PCB	A 01	16			K006953	The Boeing Company [Auburn]	
22L0567-02	8082A PCB	A 01	17			K006953	The Boeing Company [Auburn]	
22L0567-03	8082A PCB	A 01	18			K006953	The Boeing Company [Auburn]	
BKL0708-BLK1	QC		19			K006953		
BKL0708-BS1	QC		20			K006953		
BKL0708-MRL1	QC		21			K006953		

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0079

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/7/2023 2:12:46PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0635-01	082A PCB Medium Level Oil	A 01	22			K006953	Spectra Laboratories	
22L0199-44	8082A PCB Solid 4	B 01	23			K006953	Anchor QEA, LLC	
22L0199-45	8082A PCB Solid 4	B 01	24			K006953	Anchor QEA, LLC	
SLA0079-CCV3	QC		25		K006955	K006953		
SLA0079-CCV4	QC		26		K006954	K006953		
BKL0571-BLK1	QC		27			K006953		
BKL0571-BS1	QC		28			K006953		
BKL0571-BSD1	QC		29			K006953		
BKL0571-MRL1	QC		30			K006953		
BKL0571-SRM1	QC		31			K006953		
BKL0571-MS1	QC		32			K006953		
BKL0571-MSD1	QC		33			K006953		
22L0246-44	8082A PCB Solid 4	C 02	34			K006953	Anchor QEA, LLC	
22L0246-45	8082A PCB Solid 4	C 02	35			K006953	Anchor QEA, LLC	
22L0246-46	8082A PCB Solid 4	C 02	36			K006953	Anchor QEA, LLC	
22L0246-47	8082A PCB Solid 4	C 02	37			K006953	Anchor QEA, LLC	
22L0246-48	8082A PCB Solid 4	C 02	38			K006953	Anchor QEA, LLC	
SLA0079-CCV5	QC		39		K006957	K006953		
SLA0079-CCV6	QC		40		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-JAN-2023 06:54	01032301.D	1	DDTS	
2	03-JAN-2023 07:15	01032302.D	1	AR1254ICV1	
3	03-JAN-2023 07:36	01032303.D	1	AR1660ICV2	
4	03-JAN-2023 09:20	01032304.D	10	22L0199-61RE1	
5	03-JAN-2023 09:41	01032305.D	10	22L0199-62RE1	
6	03-JAN-2023 10:02	01032306.D	10	22L0307-08RE1	
7	03-JAN-2023 10:23	01032307.D	5	22L0307-09RE1	
8	03-JAN-2023 10:44	01032308.D	5	22L0307-10RE1	
9	03-JAN-2023 11:06	01032309.D	10	22L0199-31RE1	
10	03-JAN-2023 11:27	01032310.D	5	22L0199-32RE1	
11	03-JAN-2023 11:48	01032311.D	1	AR1248CCV1	
12	03-JAN-2023 12:09	01032312.D	1	AR1660CCV2	
13	03-JAN-2023 12:30	01032313.D	1	BKL0633-BLK1	
14	03-JAN-2023 12:51	01032314.D	1	BKL0633-BS1	
15	03-JAN-2023 13:12	01032315.D	1	BKL0633-BSD1	
16	03-JAN-2023 13:33	01032316.D	1	BKL0633-MRL1	
17	03-JAN-2023 13:54	01032317.D	1	22L0567-01	
18	03-JAN-2023 14:15	01032318.D	1	22L0567-02	
19	03-JAN-2023 14:36	01032319.D	1	22L0567-03	
20	03-JAN-2023 14:57	01032320.D	1	BKL0708-BLK1	
21	03-JAN-2023 15:18	01032321.D	1	BKL0708-BS1	
22	03-JAN-2023 15:39	01032322.D	1	BKL0708-MRL1	
23	03-JAN-2023 16:01	01032323.D	1	22L0633-01	
24	03-JAN-2023 16:22	01032324.D	5	22L0633-01RE1	
25	03-JAN-2023 16:43	01032325.D	1	22L0635-01	
26	03-JAN-2023 17:04	01032326.D	5	22L0635-01RE1	
27	03-JAN-2023 17:25	01032327.D	10	22L0199-44RE2	
28	03-JAN-2023 17:46	01032328.D	10	22L0199-45RE2	
29	03-JAN-2023 18:07	01032329.D	5	22L0199-07RE2	
30	03-JAN-2023 18:28	01032330.D	1	AR1242CCV3	
31	03-JAN-2023 18:49	01032331.D	1	AR1660CCV4	
32	03-JAN-2023 19:10	01032332.D	1	BKL0571-BLK1	
33	03-JAN-2023 19:31	01032333.D	1	BKL0571-BS1	
34	03-JAN-2023 19:52	01032334.D	1	BKL0571-BSD1	
35	03-JAN-2023 20:13	01032335.D	1	BKL0571-MRL1	
36	03-JAN-2023 20:34	01032336.D	1	BKL0571-SRM1	
37	03-JAN-2023 20:55	01032337.D	1	BKL0571-MS1	
38	03-JAN-2023 21:16	01032338.D	1	BKL0571-MSD1	
39	03-JAN-2023 21:37	01032339.D	1	22L0246-41	
40	03-JAN-2023 21:58	01032340.D	1	22L0246-42	
41	03-JAN-2023 22:19	01032341.D	1	22L0246-43	
42	03-JAN-2023 22:41	01032342.D	1	22L0246-44	
43	03-JAN-2023 23:02	01032343.D	1	22L0246-45	
44	03-JAN-2023 23:23	01032344.D	1	22L0246-46	
45	03-JAN-2023 23:44	01032345.D	1	22L0246-47	
46	04-JAN-2023 00:05	01032346.D	1	22L0246-48	
47	04-JAN-2023 00:26	01032347.D	1	AR1254CCV5	
48	04-JAN-2023 00:47	01032348.D	1	AR1660CCV6	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 03-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0654	01032301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0715	01032302ECD7.D	AR1254ICV1		1	Aroclor-1254,
0736	01032303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0920	01032304ECD7.D	22L0199-61RE1		10	NO MANUAL INTEGRATION
0941	01032305ECD7.D	22L0199-62RE1		10	Aroclor-1254,
1002	01032306ECD7.D	22L0307-08RE1		10	Aroclor-1254,
1023	01032307ECD7.D	22L0307-09RE1		5	NO MANUAL INTEGRATION
1044	01032308ECD7.D	22L0307-10RE1		5	NO MANUAL INTEGRATION
1106	01032309ECD7.D	22L0199-31RE1		10	NO MANUAL INTEGRATION
1127	01032310ECD7.D	22L0199-32RE1		5	NO MANUAL INTEGRATION
1148	01032311ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1209	01032312ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1230	01032313ECD7.D	BKL0633-BLK1		1	NO MANUAL INTEGRATION
1251	01032314ECD7.D	BKL0633-BS1		1	NO MANUAL INTEGRATION
1312	01032315ECD7.D	BKL0633-BSD1		1	NO MANUAL INTEGRATION
1333	01032316ECD7.D	BKL0633-MRL1		1	NO MANUAL INTEGRATION
1354	01032317ECD7.D	22L0567-01		1	IS-HBBP, Decachlorobiphenyl,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1415	01032318ECD7.D	22L0567-02		1	IS-HBBP, Decachlorobiphenyl,
1436	01032319ECD7.D	22L0567-03		1	NO MANUAL INTEGRATION
1457	01032320ECD7.D	BKL0708-BLK1		1	NO MANUAL INTEGRATION
1518	01032321ECD7.D	BKL0708-BS1		1	NO MANUAL INTEGRATION
1539	01032322ECD7.D	BKL0708-MRL1		1	NO MANUAL INTEGRATION
1601	01032323ECD7.D	22L0633-01		1	NO MANUAL INTEGRATION
1622	01032324ECD7.D	22L0633-01RE1		5	NO MANUAL INTEGRATION
1643	01032325ECD7.D	22L0635-01		1	IS-HBBP, Decachlorobiphenyl,
1704	01032326ECD7.D	22L0635-01RE1		5	NO MANUAL INTEGRATION
1725	01032327ECD7.D	22L0199-44RE2		10	Aroclor-1254,
1746	01032328ECD7.D	22L0199-45RE2		10	NO MANUAL INTEGRATION
1807	01032329ECD7.D	22L0199-07RE2		5	NO MANUAL INTEGRATION
1828	01032330ECD7.D	AR1242CCV3		1	Aroclor-1242,
1849	01032331ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1910	01032332ECD7.D	BKL0571-BLK1		1	NO MANUAL INTEGRATION
1931	01032333ECD7.D	BKL0571-BS1		1	NO MANUAL INTEGRATION
1952	01032334ECD7.D	BKL0571-BSD1		1	NO MANUAL INTEGRATION
2013	01032335ECD7.D	BKL0571-MRL1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2034	01032336ECD7.D	BKL0571-SRM1		1	NO MANUAL INTEGRATION
2055	01032337ECD7.D	BKL0571-MS1		1	NO MANUAL INTEGRATION
2116	01032338ECD7.D	BKL0571-MSD1		1	NO MANUAL INTEGRATION
2137	01032339ECD7.D	22L0246-41		1	NO MANUAL INTEGRATION
2158	01032340ECD7.D	22L0246-42		1	NO MANUAL INTEGRATION
2219	01032341ECD7.D	22L0246-43		1	Aroclor-1254,
2241	01032342ECD7.D	22L0246-44		1	Aroclor-1254,
2302	01032343ECD7.D	22L0246-45		1	NO MANUAL INTEGRATION
2323	01032344ECD7.D	22L0246-46		1	NO MANUAL INTEGRATION
2344	01032345ECD7.D	22L0246-47		1	NO MANUAL INTEGRATION
0005	01032346ECD7.D	22L0246-48		1	NO MANUAL INTEGRATION
0026	01032347ECD7.D	AR1254CCV5		1	Aroclor-1254,
0047	01032348ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0654	01032301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0715	01032302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0736	01032303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0920	01032304ECD7.D	22L0199-61RE1		10	NO MANUAL INTEGRATION
0941	01032305ECD7.D	22L0199-62RE1		10	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1002	01032306ECD7.D	22L0307-08RE1		10	NO MANUAL INTEGRATION
1023	01032307ECD7.D	22L0307-09RE1		5	NO MANUAL INTEGRATION
1044	01032308ECD7.D	22L0307-10RE1		5	NO MANUAL INTEGRATION
1106	01032309ECD7.D	22L0199-31RE1		10	NO MANUAL INTEGRATION
1127	01032310ECD7.D	22L0199-32RE1		5	Aroclor-1248 [2C],
1148	01032311ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1209	01032312ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1230	01032313ECD7.D	BKL0633-BLK1		1	NO MANUAL INTEGRATION
1251	01032314ECD7.D	BKL0633-BS1		1	NO MANUAL INTEGRATION
1312	01032315ECD7.D	BKL0633-BSD1		1	NO MANUAL INTEGRATION
1333	01032316ECD7.D	BKL0633-MRL1		1	NO MANUAL INTEGRATION
1354	01032317ECD7.D	22L0567-01		1	Decachlorobiphenyl [2C],
1415	01032318ECD7.D	22L0567-02		1	NO MANUAL INTEGRATION
1436	01032319ECD7.D	22L0567-03		1	NO MANUAL INTEGRATION
1457	01032320ECD7.D	BKL0708-BLK1		1	NO MANUAL INTEGRATION
1518	01032321ECD7.D	BKL0708-BS1		1	NO MANUAL INTEGRATION
1539	01032322ECD7.D	BKL0708-MRL1		1	NO MANUAL INTEGRATION
1601	01032323ECD7.D	22L0633-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1622	01032324ECD7.D	22L0633-01RE1		5	NO MANUAL INTEGRATION
1643	01032325ECD7.D	22L0635-01		1	NO MANUAL INTEGRATION
1704	01032326ECD7.D	22L0635-01RE1		5	NO MANUAL INTEGRATION
1725	01032327ECD7.D	22L0199-44RE2		10	Aroclor-1248 [2C],
1746	01032328ECD7.D	22L0199-45RE2		10	Aroclor-1248 [2C], Aroclor-1254 [2C], Tetrachloro-m-xylene [2C],
1807	01032329ECD7.D	22L0199-07RE2		5	NO MANUAL INTEGRATION
1828	01032330ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1849	01032331ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1910	01032332ECD7.D	BKL0571-BLK1		1	NO MANUAL INTEGRATION
1931	01032333ECD7.D	BKL0571-BS1		1	NO MANUAL INTEGRATION
1952	01032334ECD7.D	BKL0571-BSD1		1	NO MANUAL INTEGRATION
2013	01032335ECD7.D	BKL0571-MRL1		1	NO MANUAL INTEGRATION
2034	01032336ECD7.D	BKL0571-SRM1		1	NO MANUAL INTEGRATION
2055	01032337ECD7.D	BKL0571-MS1		1	NO MANUAL INTEGRATION
2116	01032338ECD7.D	BKL0571-MSD1		1	NO MANUAL INTEGRATION
2137	01032339ECD7.D	22L0246-41		1	NO MANUAL INTEGRATION
2158	01032340ECD7.D	22L0246-42		1	NO MANUAL INTEGRATION
2219	01032341ECD7.D	22L0246-43		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2241	01032342ECD7.D	22L0246-44		1	Aroclor-1254 [2C],
2302	01032343ECD7.D	22L0246-45		1	Aroclor-1260 [2C],
2323	01032344ECD7.D	22L0246-46		1	NO MANUAL INTEGRATION
2344	01032345ECD7.D	22L0246-47		1	NO MANUAL INTEGRATION
0005	01032346ECD7.D	22L0246-48		1	NO MANUAL INTEGRATION
0026	01032347ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0047	01032348ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION

Security Status Report

Date: 07-Jan-2023 14:51

01032301ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032302ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032303ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032304ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032305ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032306ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032307ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032308ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032309ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032310ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032311ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032312ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032313ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032314ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032315ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032316ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
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01032319ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
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01032321ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032322ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032323ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032324ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032325ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
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01032328ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032329ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032330ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032331ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032332ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032333ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032334ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
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01032341ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032342ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032343ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032344ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51

01032345ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032346ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032347ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032348ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0094-ICV1	01042302ECD7.D	01042302ECD7.D	NA	01/04/23 09:44
Initial Cal Check	SLA0094-ICV2	01042303ECD7.D	01042303ECD7.D	NA	01/04/23 10:05
LDW22-SC762G	22L0199-07	01042307ECD7.D	01042307ECD7.D	Solid	01/04/23 11:29
Calibration Check	SLA0094-CCV1	01042320ECD7.D	01042320ECD7.D	NA	01/04/23 16:03
Calibration Check	SLA0094-CCV2	01042321ECD7.D	01042321ECD7.D	NA	01/04/23 16:25
Calibration Check	SLA0094-CCV3	01042338ECD7.D	01042338ECD7.D	NA	01/04/23 22:23
Calibration Check	SLA0094-CCV4	01042339ECD7.D	01042339ECD7.D	NA	01/04/23 22:44
Calibration Check	SLA0094-CCV5	01042350ECD7.D	01042350ECD7.D	NA	01/05/23 02:37
Calibration Check	SLA0094-CCV6	01042351ECD7.D	01042351ECD7.D	NA	01/05/23 02:58
LDW22-SC802A	22L0199-24	01042352ECD7.D	01042352ECD7.D	Solid	01/05/23 03:19
Calibration Check	SLA0094-CCV7	01042357ECD7.D	01042357ECD7.D	NA	01/05/23 05:05
Calibration Check	SLA0094-CCV8	01042358ECD7.D	01042358ECD7.D	NA	01/05/23 05:26
Calibration Check	SLA0094-CCV9	01042375ECD7.D	01042375ECD7.D	NA	01/05/23 11:25
Calibration Check	SLA0094-CCVA	01042376ECD7.D	01042376ECD7.D	NA	01/05/23 11:46

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0094

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/9/2023 4:00:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0094-ICV1	QC		1		K006957	K006953		
SLA0094-ICV2	QC		2		K006954	K006953		
22L0246-41	8082A PCB Solid 4	B 01	3			K006953	Anchor QEA, LLC	
22L0246-42	8082A PCB Solid 4	C 02	4			K006953	Anchor QEA, LLC	
22L0246-43	8082A PCB Solid 4	C 02	5			K006953	Anchor QEA, LLC	
22L0199-07	8082A PCB Solid 4	B 01	6			K006953	Anchor QEA, LLC	
BKL0685-BLK1	QC		7			K006953		
BKL0685-BS1	QC		8			K006953		
BKL0685-BSD1	QC		9			K006953		
22L0600-01	PCB (20 ug/kg) or (MTCA 0.	C 01	10			K006953	Seattle Public Utilities	
22L0600-02	PCB (20 ug/kg) or (MTCA 0.	C 01	11			K006953	Seattle Public Utilities	
BKL0681-BLK1	QC		12			K006953		
BKL0681-BS1	QC		13			K006953		
BKL0681-BSD1	QC		14			K006953		
BKL0681-MRL1	QC		15			K006953		
22L0601-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	16			K006953	Nucor Steel Corporation	
22L0604-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	17			K006953	Nucor Steel Corporation	
22L0632-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	18			K006953	Nucor Steel Corporation	
SLA0094-CCV1	QC		19		K006956	K006953		
SLA0094-CCV2	QC		20		K006954	K006953		
BKL0492-BLK1	QC		21			K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0094

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/9/2023 4:00:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
BKL0492-BS1	QC		22			K006953		
BKL0492-BSD1	QC		23			K006953		
BKL0492-SRM1	QC		24			K006953		
BKL0492-MS1	QC		25			K006953		
BKL0492-MSD1	QC		26			K006953		
22L0246-23	8082A PCB Solid 4	B 01	27			K006953	Anchor QEA, LLC	
22L0246-24	8082A PCB Solid 4	B 01	28			K006953	Anchor QEA, LLC	
22L0246-25	8082A PCB Solid 4	B 01	29			K006953	Anchor QEA, LLC	
22L0246-26	8082A PCB Solid 4	B 01	30			K006953	Anchor QEA, LLC	
22L0246-27	8082A PCB Solid 4	B 01	31			K006953	Anchor QEA, LLC	
22L0246-30	8082A PCB Solid 4	B 01	32			K006953	Anchor QEA, LLC	
SLA0094-CCV3	QC		33		K006955	K006953		
SLA0094-CCV4	QC		34		K006954	K006953		
22L0246-31	8082A PCB Solid 4	B 01	35			K006953	Anchor QEA, LLC	
22L0246-32	8082A PCB Solid 4	B 01	36			K006953	Anchor QEA, LLC	
22L0246-33	8082A PCB Solid 4	B 01	37			K006953	Anchor QEA, LLC	
22L0246-37	8082A PCB Solid 4	B 01	38			K006953	Anchor QEA, LLC	
22L0246-38	8082A PCB Solid 4	B 01	39			K006953	Anchor QEA, LLC	
22L0246-39	8082A PCB Solid 4	B 01	40			K006953	Anchor QEA, LLC	
22L0246-40	8082A PCB Solid 4	B 01	41			K006953	Anchor QEA, LLC	
SLA0094-CCV5	QC		42		K006957	K006953		

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0094

Instrument: ECD7
Calibration ID: FL00010

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Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0094-CCV6	QC		43		K006954	K006953		
22L0199-24	8082A PCB Solid 4	B 01	44			K006953	Anchor QEA, LLC	
BLA0021-BLK1	QC		45			K006953		
BLA0021-BS1	QC		46			K006953		
BLA0021-BSD1	QC		47			K006953		
22L0658-01	8082A PCB	A 02	48			K006953	The Boeing Company [Auburn]	
SLA0094-CCV7	QC		49		K006956	K006953		
SLA0094-CCV8	QC		50		K006954	K006953		
BKL0490-BLK1	QC		51			K006953		
BKL0490-BS1	QC		52			K006953		
BKL0490-BSD1	QC		53			K006953		
BKL0490-SRM1	QC		54			K006953		
BKL0490-MS1	QC		55			K006953		
BKL0490-MSD1	QC		56			K006953		
22L0246-05	8082A PCB Solid 4	B 01	57			K006953	Anchor QEA, LLC	
22L0246-08	8082A PCB Solid 4	C 02	58			K006953	Anchor QEA, LLC	
22L0246-10	8082A PCB Solid 4	C 02	59			K006953	Anchor QEA, LLC	
SLA0094-CCV9	QC		60		K006955	K006953		
SLA0094-CCVA	QC		61		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	04-JAN-2023 09:23	01042301.D	1	DDTS	
2	04-JAN-2023 09:44	01042302.D	1	AR1254ICV1	
3	04-JAN-2023 10:05	01042303.D	1	AR1660ICV2	
4	04-JAN-2023 10:26	01042304.D	5	22L0246-41RE1	
5	04-JAN-2023 10:47	01042305.D	10	22L0246-42RE1	
6	04-JAN-2023 11:08	01042306.D	5	22L0246-43RE1	
7	04-JAN-2023 11:29	01042307.D	5	22L0199-07RE2	
8	04-JAN-2023 11:50	01042308.D	1	BKL0685-BLK1	
9	04-JAN-2023 12:11	01042309.D	1	BKL0685-BS1	
10	04-JAN-2023 12:32	01042310.D	1	BKL0685-BSD1	
11	04-JAN-2023 12:53	01042311.D	1	22L0600-01	
12	04-JAN-2023 13:15	01042312.D	1	22L0600-02	
13	04-JAN-2023 13:36	01042313.D	1	BKL0681-BLK1	
14	04-JAN-2023 13:57	01042314.D	1	BKL0681-BS1	
15	04-JAN-2023 14:18	01042315.D	1	BKL0681-BSD1	
16	04-JAN-2023 14:39	01042316.D	1	BKL0681-MRL1	
17	04-JAN-2023 15:00	01042317.D	1	22L0601-01	
18	04-JAN-2023 15:21	01042318.D	1	22L0604-01	
19	04-JAN-2023 15:42	01042319.D	1	22L0632-01	
20	04-JAN-2023 16:03	01042320.D	1	AR1248CCV1	
21	04-JAN-2023 16:25	01042321.D	1	AR1660CCV2	
22	04-JAN-2023 16:46	01042322.D	1	BKL0492-BLK1	
23	04-JAN-2023 17:07	01042323.D	1	BKL0492-BS1	
24	04-JAN-2023 17:28	01042324.D	1	BKL0492-BSD1	
25	04-JAN-2023 17:49	01042325.D	1	BKL0492-SRM1	
26	04-JAN-2023 18:10	01042326.D	1	BKL0492-MS1	
27	04-JAN-2023 18:31	01042327.D	1	BKL0492-MSD1	
28	04-JAN-2023 18:52	01042328.D	1	22L0246-21	
29	04-JAN-2023 19:13	01042329.D	1	22L0246-22	
30	04-JAN-2023 19:34	01042330.D	1	22L0246-23	
31	04-JAN-2023 19:56	01042331.D	1	22L0246-24	
32	04-JAN-2023 20:17	01042332.D	1	22L0246-25	
33	04-JAN-2023 20:38	01042333.D	1	22L0246-26	
34	04-JAN-2023 20:59	01042334.D	1	22L0246-27	
35	04-JAN-2023 21:20	01042335.D	1	22L0246-28	
36	04-JAN-2023 21:41	01042336.D	1	22L0246-29	
37	04-JAN-2023 22:02	01042337.D	1	22L0246-30	
38	04-JAN-2023 22:23	01042338.D	1	AR1242CCV3	
39	04-JAN-2023 22:44	01042339.D	1	AR1660CCV4	
40	04-JAN-2023 23:06	01042340.D	1	22L0246-31	
41	04-JAN-2023 23:27	01042341.D	1	22L0246-32	
42	04-JAN-2023 23:48	01042342.D	1	22L0246-33	
43	05-JAN-2023 00:09	01042343.D	1	22L0246-34	
44	05-JAN-2023 00:30	01042344.D	1	22L0246-35	
45	05-JAN-2023 00:51	01042345.D	1	22L0246-36	
46	05-JAN-2023 01:12	01042346.D	1	22L0246-37	
47	05-JAN-2023 01:33	01042347.D	1	22L0246-38	
48	05-JAN-2023 01:55	01042348.D	1	22L0246-39	
49	05-JAN-2023 02:16	01042349.D	1	22L0246-40	
50	05-JAN-2023 02:37	01042350.D	1	AR1254CCV5	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	05-JAN-2023 02:58	01042351.D	1	AR1660CCV6	
52	05-JAN-2023 03:19	01042352.D	1	22L0199-24	
53	05-JAN-2023 03:40	01042353.D	1	BLA0021-BLK1	
54	05-JAN-2023 04:01	01042354.D	1	BLA0021-BS1	
55	05-JAN-2023 04:22	01042355.D	1	BLA0021-BSD1	
56	05-JAN-2023 04:44	01042356.D	1	22L0658-01	
57	05-JAN-2023 05:05	01042357.D	1	AR1248CCV7	
58	05-JAN-2023 05:26	01042358.D	1	AR1660CCV8	
59	05-JAN-2023 05:47	01042359.D	1	BKL0490-BLK1	
60	05-JAN-2023 06:08	01042360.D	1	BKL0490-BS1	
61	05-JAN-2023 06:29	01042361.D	1	BKL0490-BSD1	
62	05-JAN-2023 06:50	01042362.D	1	BKL0490-SRM1	
63	05-JAN-2023 07:11	01042363.D	1	BKL0490-MS1	
64	05-JAN-2023 07:32	01042364.D	1	BKL0490-MSD1	
65	05-JAN-2023 07:53	01042365.D	5	22L0246-01	
66	05-JAN-2023 08:15	01042366.D	5	22L0246-02	
67	05-JAN-2023 08:36	01042367.D	5	22L0246-03	
68	05-JAN-2023 08:57	01042368.D	1	22L0246-04	
69	05-JAN-2023 09:18	01042369.D	1	22L0246-05	
70	05-JAN-2023 09:39	01042370.D	1	22L0246-06	
71	05-JAN-2023 10:00	01042371.D	1	22L0246-07	
72	05-JAN-2023 10:21	01042372.D	1	22L0246-08	
73	05-JAN-2023 10:42	01042373.D	1	22L0246-09	
74	05-JAN-2023 11:04	01042374.D	1	22L0246-10	
75	05-JAN-2023 11:25	01042375.D	1	AR1242CCV9	
76	05-JAN-2023 11:46	01042376.D	1	AR1660CCVA	
77	05-JAN-2023 12:07	01042377.D	1	22L0246-11	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 04-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0923	01042301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0944	01042302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1005	01042303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1026	01042304ECD7.D	22L0246-41RE1		5	NO MANUAL INTEGRATION
1047	01042305ECD7.D	22L0246-42RE1		10	Aroclor-1248, Aroclor-1254, Aroclor-1260,
1108	01042306ECD7.D	22L0246-43RE1		5	Aroclor-1254,
1129	01042307ECD7.D	22L0199-07RE2		5	Aroclor-1254,
1150	01042308ECD7.D	BKL0685-BLK1		1	NO MANUAL INTEGRATION
1211	01042309ECD7.D	BKL0685-BS1		1	NO MANUAL INTEGRATION
1232	01042310ECD7.D	BKL0685-BSD1		1	NO MANUAL INTEGRATION
1253	01042311ECD7.D	22L0600-01		1	Aroclor-1254, Aroclor-1260, IS-HBBP, Decachlorobiphenyl,
1315	01042312ECD7.D	22L0600-02		1	NO MANUAL INTEGRATION
1336	01042313ECD7.D	BKL0681-BLK1		1	NO MANUAL INTEGRATION
1357	01042314ECD7.D	BKL0681-BS1		1	NO MANUAL INTEGRATION
1418	01042315ECD7.D	BKL0681-BSD1		1	NO MANUAL INTEGRATION
1439	01042316ECD7.D	BKL0681-MRL1		1	NO MANUAL INTEGRATION
1500	01042317ECD7.D	22L0601-01		1	Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1521	01042318ECD7.D	22L0604-01		1	NO MANUAL INTEGRATION
1542	01042319ECD7.D	22L0632-01		1	Tetrachloro-m-xylene,
1603	01042320ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1625	01042321ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1646	01042322ECD7.D	BKL0492-BLK1		1	NO MANUAL INTEGRATION
1707	01042323ECD7.D	BKL0492-BS1		1	NO MANUAL INTEGRATION
1728	01042324ECD7.D	BKL0492-BSD1		1	NO MANUAL INTEGRATION
1749	01042325ECD7.D	BKL0492-SRM1		1	NO MANUAL INTEGRATION
1810	01042326ECD7.D	BKL0492-MS1		1	NO MANUAL INTEGRATION
1831	01042327ECD7.D	BKL0492-MSD1		1	NO MANUAL INTEGRATION
1852	01042328ECD7.D	22L0246-21		1	NO MANUAL INTEGRATION
1913	01042329ECD7.D	22L0246-22		1	NO MANUAL INTEGRATION
1934	01042330ECD7.D	22L0246-23		1	NO MANUAL INTEGRATION
1956	01042331ECD7.D	22L0246-24		1	Aroclor-1254, Aroclor-1260,
2017	01042332ECD7.D	22L0246-25		1	NO MANUAL INTEGRATION
2038	01042333ECD7.D	22L0246-26		1	Aroclor-1254, Aroclor-1260,
2059	01042334ECD7.D	22L0246-27		1	Aroclor-1254,
2120	01042335ECD7.D	22L0246-28		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2141	01042336ECD7.D	22L0246-29		1	NO MANUAL INTEGRATION
2202	01042337ECD7.D	22L0246-30		1	Aroclor-1254,
2223	01042338ECD7.D	AR1242CCV3		1	Aroclor-1242,
2244	01042339ECD7.D	AR1660CCV4		1	Aroclor-1016,
2306	01042340ECD7.D	22L0246-31		1	Aroclor-1254,
2327	01042341ECD7.D	22L0246-32		1	Aroclor-1254,
2348	01042342ECD7.D	22L0246-33		1	Aroclor-1254, Aroclor-1260,
0009	01042343ECD7.D	22L0246-34		1	Aroclor-1254,
0030	01042344ECD7.D	22L0246-35		1	NO MANUAL INTEGRATION
0051	01042345ECD7.D	22L0246-36		1	NO MANUAL INTEGRATION
0112	01042346ECD7.D	22L0246-37		1	Aroclor-1254,
0133	01042347ECD7.D	22L0246-38		1	NO MANUAL INTEGRATION
0155	01042348ECD7.D	22L0246-39		1	NO MANUAL INTEGRATION
0216	01042349ECD7.D	22L0246-40		1	NO MANUAL INTEGRATION
0237	01042350ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0258	01042351ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0319	01042352ECD7.D	22L0199-24		1	Aroclor-1254,
0340	01042353ECD7.D	BLA0021-BLK1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0401	01042354ECD7.D	BLA0021-BS1		1	NO MANUAL INTEGRATION
0422	01042355ECD7.D	BLA0021-BSD1		1	NO MANUAL INTEGRATION
0444	01042356ECD7.D	22L0658-01		1	IS-HBBP, Decachlorobiphenyl,
0505	01042357ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0526	01042358ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0547	01042359ECD7.D	BKL0490-BLK1		1	NO MANUAL INTEGRATION
0608	01042360ECD7.D	BKL0490-BS1		1	NO MANUAL INTEGRATION
0629	01042361ECD7.D	BKL0490-BSD1		1	NO MANUAL INTEGRATION
0650	01042362ECD7.D	BKL0490-SRM1		1	NO MANUAL INTEGRATION
0711	01042363ECD7.D	BKL0490-MS1		1	NO MANUAL INTEGRATION
0732	01042364ECD7.D	BKL0490-MSD1		1	NO MANUAL INTEGRATION
0753	01042365ECD7.D	22L0246-01		5	NO MANUAL INTEGRATION
0815	01042366ECD7.D	22L0246-02		5	Aroclor-1254,
0836	01042367ECD7.D	22L0246-03		5	Aroclor-1254,
0857	01042368ECD7.D	22L0246-04		1	Aroclor-1254,
0918	01042369ECD7.D	22L0246-05		1	Aroclor-1260, Tetrachloro-m-xylene,
0939	01042370ECD7.D	22L0246-06		1	NO MANUAL INTEGRATION
1000	01042371ECD7.D	22L0246-07		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1021	01042372ECD7.D	22L0246-08		1	Aroclor-1254,
1042	01042373ECD7.D	22L0246-09		1	NO MANUAL INTEGRATION
1104	01042374ECD7.D	22L0246-10		1	Aroclor-1254, Aroclor-1260,
1125	01042375ECD7.D	AR1242CCV9		1	Aroclor-1242,
1146	01042376ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1207	01042377ECD7.D	22L0246-11		1	NO MANUAL INTEGRATION
0923	01042301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0944	01042302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1005	01042303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1026	01042304ECD7.D	22L0246-41RE1		5	Aroclor-1248 [2C], Aroclor-1254 [2C],
1047	01042305ECD7.D	22L0246-42RE1		10	Aroclor-1248 [2C],
1108	01042306ECD7.D	22L0246-43RE1		5	Aroclor-1254 [2C], Aroclor-1260 [2C],
1129	01042307ECD7.D	22L0199-07RE2		5	NO MANUAL INTEGRATION
1150	01042308ECD7.D	BKL0685-BLK1		1	NO MANUAL INTEGRATION
1211	01042309ECD7.D	BKL0685-BS1		1	NO MANUAL INTEGRATION
1232	01042310ECD7.D	BKL0685-BSD1		1	NO MANUAL INTEGRATION
1253	01042311ECD7.D	22L0600-01		1	Aroclor-1254 [2C], Aroclor-1260 [2C],
1315	01042312ECD7.D	22L0600-02		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1336	01042313ECD7.D	BKL0681-BLK1		1	NO MANUAL INTEGRATION
1357	01042314ECD7.D	BKL0681-BS1		1	NO MANUAL INTEGRATION
1418	01042315ECD7.D	BKL0681-BSD1		1	NO MANUAL INTEGRATION
1439	01042316ECD7.D	BKL0681-MRL1		1	NO MANUAL INTEGRATION
1500	01042317ECD7.D	22L0601-01		1	NO MANUAL INTEGRATION
1521	01042318ECD7.D	22L0604-01		1	NO MANUAL INTEGRATION
1542	01042319ECD7.D	22L0632-01		1	NO MANUAL INTEGRATION
1603	01042320ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1625	01042321ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1646	01042322ECD7.D	BKL0492-BLK1		1	NO MANUAL INTEGRATION
1707	01042323ECD7.D	BKL0492-BS1		1	NO MANUAL INTEGRATION
1728	01042324ECD7.D	BKL0492-BSD1		1	NO MANUAL INTEGRATION
1749	01042325ECD7.D	BKL0492-SRM1		1	NO MANUAL INTEGRATION
1810	01042326ECD7.D	BKL0492-MS1		1	NO MANUAL INTEGRATION
1831	01042327ECD7.D	BKL0492-MSD1		1	NO MANUAL INTEGRATION
1852	01042328ECD7.D	22L0246-21		1	NO MANUAL INTEGRATION
1913	01042329ECD7.D	22L0246-22		1	NO MANUAL INTEGRATION
1934	01042330ECD7.D	22L0246-23		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1956	01042331ECD7.D	22L0246-24		1	Aroclor-1254 [2C],
2017	01042332ECD7.D	22L0246-25		1	NO MANUAL INTEGRATION
2038	01042333ECD7.D	22L0246-26		1	Aroclor-1248 [2C],
2059	01042334ECD7.D	22L0246-27		1	Aroclor-1248 [2C],
2120	01042335ECD7.D	22L0246-28		1	NO MANUAL INTEGRATION
2141	01042336ECD7.D	22L0246-29		1	NO MANUAL INTEGRATION
2202	01042337ECD7.D	22L0246-30		1	Aroclor-1248 [2C],
2223	01042338ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2244	01042339ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2306	01042340ECD7.D	22L0246-31		1	Aroclor-1248 [2C],
2327	01042341ECD7.D	22L0246-32		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
2348	01042342ECD7.D	22L0246-33		1	Aroclor-1254 [2C],
0009	01042343ECD7.D	22L0246-34		1	NO MANUAL INTEGRATION
0030	01042344ECD7.D	22L0246-35		1	NO MANUAL INTEGRATION
0051	01042345ECD7.D	22L0246-36		1	NO MANUAL INTEGRATION
0112	01042346ECD7.D	22L0246-37		1	Aroclor-1254 [2C],
0133	01042347ECD7.D	22L0246-38		1	NO MANUAL INTEGRATION
0155	01042348ECD7.D	22L0246-39		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0216	01042349ECD7.D	22L0246-40		1	NO MANUAL INTEGRATION
0237	01042350ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0258	01042351ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0319	01042352ECD7.D	22L0199-24		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
0340	01042353ECD7.D	BLA0021-BLK1		1	NO MANUAL INTEGRATION
0401	01042354ECD7.D	BLA0021-BS1		1	NO MANUAL INTEGRATION
0422	01042355ECD7.D	BLA0021-BSD1		1	NO MANUAL INTEGRATION
0444	01042356ECD7.D	22L0658-01		1	Decachlorobiphenyl [2C],
0505	01042357ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0526	01042358ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0547	01042359ECD7.D	BKL0490-BLK1		1	NO MANUAL INTEGRATION
0608	01042360ECD7.D	BKL0490-BS1		1	NO MANUAL INTEGRATION
0629	01042361ECD7.D	BKL0490-BSD1		1	NO MANUAL INTEGRATION
0650	01042362ECD7.D	BKL0490-SRM1		1	NO MANUAL INTEGRATION
0711	01042363ECD7.D	BKL0490-MS1		1	NO MANUAL INTEGRATION
0732	01042364ECD7.D	BKL0490-MSD1		1	NO MANUAL INTEGRATION
0753	01042365ECD7.D	22L0246-01		5	NO MANUAL INTEGRATION
0815	01042366ECD7.D	22L0246-02		5	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0836	01042367ECD7.D	22L0246-03		5	Aroclor-1248 [2C],
0857	01042368ECD7.D	22L0246-04		1	NO MANUAL INTEGRATION
0918	01042369ECD7.D	22L0246-05		1	Aroclor-1260 [2C], Tetrachloro-m-xylene [2C],
0939	01042370ECD7.D	22L0246-06		1	NO MANUAL INTEGRATION
1000	01042371ECD7.D	22L0246-07		1	NO MANUAL INTEGRATION
1021	01042372ECD7.D	22L0246-08		1	NO MANUAL INTEGRATION
1042	01042373ECD7.D	22L0246-09		1	NO MANUAL INTEGRATION
1104	01042374ECD7.D	22L0246-10		1	NO MANUAL INTEGRATION
1125	01042375ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1146	01042376ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1207	01042377ECD7.D	22L0246-11		1	NO MANUAL INTEGRATION

Security Status Report

Date: 09-Jan-2023 16:03

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Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0096-CCV3	01052331ECD7.D	01052331ECD7.D	NA	01/05/23 22:56
Calibration Check	SLA0096-CCV4	01052332ECD7.D	01052332ECD7.D	NA	01/05/23 23:17
Calibration Check	SLA0096-CCV5	01052349ECD7.D	01052349ECD7.D	NA	01/06/23 05:15
Calibration Check	SLA0096-CCV6	01052350ECD7.D	01052350ECD7.D	NA	01/06/23 05:36
Calibration Check	SLA0096-CCV7	01052361ECD7.D	01052361ECD7.D	NA	01/06/23 09:28
Calibration Check	SLA0096-CCV8	01052362ECD7.D	01052362ECD7.D	NA	01/06/23 09:49
LDW22-SC787E	22L0199-40	01052369ECD7.D	01052369ECD7.D	Solid	01/06/23 12:16
LDW22-SC787F	22L0199-41	01052370ECD7.D	01052370ECD7.D	Solid	01/06/23 12:37
LDW22-SC787G	22L0199-42	01052371ECD7.D	01052371ECD7.D	Solid	01/06/23 12:58
Calibration Check	SLA0096-CCV9	01052372ECD7.D	01052372ECD7.D	NA	01/06/23 13:19
Calibration Check	SLA0096-CCVA	01052373ECD7.D	01052373ECD7.D	NA	01/06/23 13:40
LDW22-SC802B	22L0199-25	01052374ECD7.D	01052374ECD7.D	Solid	01/06/23 14:02
LDW22-SC802C	22L0199-26	01052375ECD7.D	01052375ECD7.D	Solid	01/06/23 14:23
LDW22-SC802D	22L0199-27	01052376ECD7.D	01052376ECD7.D	Solid	01/06/23 14:44
LDW22-SC802E	22L0199-28	01052377ECD7.D	01052377ECD7.D	Solid	01/06/23 15:05
LDW22-SC802F	22L0199-29	01052378ECD7.D	01052378ECD7.D	Solid	01/06/23 15:26
LDW22-SC802G	22L0199-30	01052379ECD7.D	01052379ECD7.D	Solid	01/06/23 15:47
LDW22-SC802J	22L0199-33	01052380ECD7.D	01052380ECD7.D	Solid	01/06/23 16:08
LDW22-SC802K	22L0199-34	01052381ECD7.D	01052381ECD7.D	Solid	01/06/23 16:29
LDW22-SC802C-FD	22L0199-35	01052382ECD7.D	01052382ECD7.D	Solid	01/06/23 16:50
LDW22-SC787A	22L0199-36	01052383ECD7.D	01052383ECD7.D	Solid	01/06/23 17:11
Calibration Check	SLA0096-CCVB	01052384ECD7.D	01052384ECD7.D	NA	01/06/23 17:32
Calibration Check	SLA0096-CCVC	01052385ECD7.D	01052385ECD7.D	NA	01/06/23 17:53
LDW22-SC787B	22L0199-37	01052386ECD7.D	01052386ECD7.D	Solid	01/06/23 18:15
LDW22-SC787C	22L0199-38	01052387ECD7.D	01052387ECD7.D	Solid	01/06/23 18:36
LDW22-SC787D	22L0199-39	01052388ECD7.D	01052388ECD7.D	Solid	01/06/23 18:57
Calibration Check	SLA0096-CCVD	01052392ECD7.D	01052392ECD7.D	NA	01/06/23 20:21
Calibration Check	SLA0096-CCVE	01052393ECD7.D	01052393ECD7.D	NA	01/06/23 20:42

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0096-ICV1	QC		1		K006957	K006953		
SLA0096-ICV2	QC		2		K006954	K006953		
BLA0052-BLK1	QC		3			K006953		
BLA0052-BS1	QC		4			K006953		
23A0030-01	082A PCB Medium Level Oil	A 01	5			K006953	Seattle Public Utilities [Solid Waste Field Op]	See Version Comment
BLA0047-BLK1	QC		6			K006953		
BLA0047-BS1	QC		7			K006953		
BLA0047-BSD1	QC		8			K006953		
22L0663-01	PCB (20 ug/kg) or (MTCA 0.	B 01	9			K006953	Nucor Steel Corporation	
BLA0043-BLK1	QC		10			K006953		
BLA0043-BS1	QC		11			K006953		
BLA0043-BSD1	QC		12			K006953		
22L0661-01	8.3 PCBs 0.01 ug/L or 20 ug/	E 01	13			K006953	Nucor Steel Corporation	
23A0027-01	8.3 PCBs 0.01 ug/L or 20 ug/	E 01	14			K006953	Schnitzer Steel	Please run low-level check standards , (
SLA0096-CCV1	QC		15		K006956	K006953		
SLA0096-CCV2	QC		16		K006954	K006953		
22L0246-11	8082A PCB Solid 4	C 02	17			K006953	Anchor QEA, LLC	
22L0246-12	8082A PCB Solid 4	C 02	18			K006953	Anchor QEA, LLC	
22L0246-13	8082A PCB Solid 4	C 02	19			K006953	Anchor QEA, LLC	
22L0246-14	8082A PCB Solid 4	C 02	20			K006953	Anchor QEA, LLC	
22L0246-15	8082A PCB Solid 4	B 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0246-16	8082A PCB Solid 4	B 01	22			K006953	Anchor QEA, LLC	
22L0246-17	8082A PCB Solid 4	B 01	23			K006953	Anchor QEA, LLC	
SLA0096-CCV3	QC		24		K006955	K006953		
SLA0096-CCV4	QC		25		K006954	K006953		
22L0473-03	8082A PCB Solid 4	A 02	26			K006953	Anchor QEA, LLC	
22L0473-05	8082A PCB Solid 4	A 02	27			K006953	Anchor QEA, LLC	
22L0473-06	8082A PCB Solid 4	A 02	28			K006953	Anchor QEA, LLC	
22L0473-07	8082A PCB Solid 4	A 02	29			K006953	Anchor QEA, LLC	
22L0473-08	8082A PCB Solid 4	A 02	30			K006953	Anchor QEA, LLC	
SLA0096-CCV5	QC		31		K006957	K006953		
SLA0096-CCV6	QC		32		K006954	K006953		
22L0473-09	8082A PCB Solid 4	A 02	33			K006953	Anchor QEA, LLC	
22L0473-10	8082A PCB Solid 4	A 01	34			K006953	Anchor QEA, LLC	
22L0492-13	8082A PCB Solid 4	A 01	35			K006953	Windward Environmental, LLC	
22L0492-15	8082A PCB Solid 4	A 01	36			K006953	Windward Environmental, LLC	
22L0492-16	8082A PCB Solid 4	A 01	37			K006953	Windward Environmental, LLC	
SLA0096-CCV7	QC		38		K006956	K006953		
SLA0096-CCV8	QC		39		K006954	K006953		
22L0246-21	8082A PCB Solid 4	B 01	40			K006953	Anchor QEA, LLC	
22L0246-22	8082A PCB Solid 4	B 01	41			K006953	Anchor QEA, LLC	
22L0246-06	8082A PCB Solid 4	B 01	42			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0246-07	8082A PCB Solid 4	C 02	43			K006953	Anchor QEA, LLC	
22L0246-05	8082A PCB Solid 4	B 01	44			K006953	Anchor QEA, LLC	
22L0246-09	8082A PCB Solid 4	C 02	45			K006953	Anchor QEA, LLC	
22L0199-40	8082A PCB Solid 4	B 01	46			K006953	Anchor QEA, LLC	
22L0199-41	8082A PCB Solid 4	B 01	47			K006953	Anchor QEA, LLC	
22L0199-42	8082A PCB Solid 4	B 01	48			K006953	Anchor QEA, LLC	
SLA0096-CCV9	QC		49		K006955	K006953		
SLA0096-CCVA	QC		50		K006954	K006953		
22L0199-25	8082A PCB Solid 4	B 01	51			K006953	Anchor QEA, LLC	
22L0199-26	8082A PCB Solid 4	B 01	52			K006953	Anchor QEA, LLC	
22L0199-27	8082A PCB Solid 4	B 01	53			K006953	Anchor QEA, LLC	
22L0199-28	8082A PCB Solid 4	B 01	54			K006953	Anchor QEA, LLC	
22L0199-29	8082A PCB Solid 4	B 01	55			K006953	Anchor QEA, LLC	
22L0199-30	8082A PCB Solid 4	B 01	56			K006953	Anchor QEA, LLC	
22L0199-33	8082A PCB Solid 4	B 01	57			K006953	Anchor QEA, LLC	
22L0199-34	8082A PCB Solid 4	B 01	58			K006953	Anchor QEA, LLC	
22L0199-35	8082A PCB Solid 4	B 01	59			K006953	Anchor QEA, LLC	
22L0199-36	8082A PCB Solid 4	B 01	60			K006953	Anchor QEA, LLC	
SLA0096-CCVB	QC		61		K006957	K006953		
SLA0096-CCVC	QC		62		K006954	K006953		
22L0199-37	8082A PCB Solid 4	B 01	63			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0199-38	8082A PCB Solid 4	B 01	64			K006953	Anchor QEA, LLC	
22L0199-39	8082A PCB Solid 4	B 01	65			K006953	Anchor QEA, LLC	
22L0307-01	8082A PCB Solid 4	B 01	66			K006953	Anchor QEA, LLC	
22L0137-19	8082A PCB Solid 4	B 01	67			K006953	Anchor QEA, LLC	
SLA0096-CCVD	QC		68		K006956	K006953		
SLA0096-CCVE	QC		69		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	05-JAN-2023 12:22	01052301.D	1	DDTS	
2	05-JAN-2023 12:43	01052302.D	1	AR1254ICV1	
3	05-JAN-2023 13:04	01052303.D	1	AR1660ICV2	
4	05-JAN-2023 13:26	01052304.D	1	BLA0052-BLK1	
5	05-JAN-2023 13:47	01052305.D	1	BLA0052-BS1	
6	05-JAN-2023 14:08	01052306.D	1	23A0030-01	
7	05-JAN-2023 14:29	01052307.D	5	23A0030-01RE1	
8	05-JAN-2023 14:50	01052308.D	1	BLA0047-BLK1	
9	05-JAN-2023 15:11	01052309.D	1	BLA0047-BS1	
10	05-JAN-2023 15:32	01052310.D	1	BLA0047-BSD1	
11	05-JAN-2023 15:53	01052311.D	1	22L0663-01	
12	05-JAN-2023 16:15	01052312.D	5	22L0663-01RE1	
13	05-JAN-2023 16:36	01052313.D	1	BLA0043-BLK1	
14	05-JAN-2023 16:57	01052314.D	1	BLA0043-BS1	
15	05-JAN-2023 17:18	01052315.D	1	BLA0043-BSD1	
16	05-JAN-2023 17:39	01052316.D	1	22L0661-01	
17	05-JAN-2023 18:00	01052317.D	1	23A0027-01	
18	05-JAN-2023 18:21	01052318.D	1	SCVA250	
19	05-JAN-2023 18:42	01052319.D	1	AR1248CCV1	
20	05-JAN-2023 19:04	01052320.D	1	AR1660CCV2	
21	05-JAN-2023 19:25	01052321.D	1	22L0246-11	
22	05-JAN-2023 19:46	01052322.D	1	22L0246-12	
23	05-JAN-2023 20:07	01052323.D	1	22L0246-13	
24	05-JAN-2023 20:28	01052324.D	1	22L0246-14	
25	05-JAN-2023 20:49	01052325.D	1	22L0246-15	
26	05-JAN-2023 21:10	01052326.D	1	22L0246-16	
27	05-JAN-2023 21:31	01052327.D	1	22L0246-17	
28	05-JAN-2023 21:52	01052328.D	1	22L0246-18	
29	05-JAN-2023 22:14	01052329.D	1	22L0246-19	
30	05-JAN-2023 22:35	01052330.D	1	22L0246-20	
31	05-JAN-2023 22:56	01052331.D	1	AR1242CCV3	
32	05-JAN-2023 23:17	01052332.D	1	AR1660CCV4	
33	05-JAN-2023 23:38	01052333.D	1	BKL0613-BLK1	
34	05-JAN-2023 23:59	01052334.D	1	BKL0613-BS1	
35	06-JAN-2023 00:20	01052335.D	1	BKL0613-BSD1	
36	06-JAN-2023 00:41	01052336.D	1	BKL0613-SRM1	
37	06-JAN-2023 01:02	01052337.D	1	BKL0613-MS1	
38	06-JAN-2023 01:23	01052338.D	1	BKL0613-MSD1	
39	06-JAN-2023 01:45	01052339.D	1	BKL0613-MS2	
40	06-JAN-2023 02:06	01052340.D	1	BKL0613-MSD2	
41	06-JAN-2023 02:27	01052341.D	1	22L0473-01	
42	06-JAN-2023 02:48	01052342.D	1	22L0473-02	
43	06-JAN-2023 03:09	01052343.D	1	22L0473-03	
44	06-JAN-2023 03:30	01052344.D	1	22L0473-04	
45	06-JAN-2023 03:51	01052345.D	1	22L0473-05	
46	06-JAN-2023 04:12	01052346.D	1	22L0473-06	
47	06-JAN-2023 04:33	01052347.D	1	22L0473-07	
48	06-JAN-2023 04:54	01052348.D	1	22L0473-08	
49	06-JAN-2023 05:15	01052349.D	1	AR1254CCV5	
50	06-JAN-2023 05:36	01052350.D	1	AR1660CCV6	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	06-JAN-2023 05:57	01052351.D	1	22L0473-09	
52	06-JAN-2023 06:18	01052352.D	1	22L0473-10	
53	06-JAN-2023 06:39	01052353.D	1	22L0473-11	
54	06-JAN-2023 07:00	01052354.D	1	22L0492-12	
55	06-JAN-2023 07:22	01052355.D	1	22L0492-13	
56	06-JAN-2023 07:43	01052356.D	1	22L0492-14	
57	06-JAN-2023 08:04	01052357.D	1	22L0492-15	
58	06-JAN-2023 08:25	01052358.D	1	22L0492-16	
59	06-JAN-2023 08:46	01052359.D	1	22L0492-17	
60	06-JAN-2023 09:07	01052360.D	1	22L0492-18	
61	06-JAN-2023 09:28	01052361.D	1	AR1248CCV7	
62	06-JAN-2023 09:49	01052362.D	1	AR1660CCV8	
63	06-JAN-2023 10:10	01052363.D	10	22L0246-21RE1	
64	06-JAN-2023 10:31	01052364.D	10	22L0246-22RE1	
65	06-JAN-2023 10:52	01052365.D	10	22L0246-06RE1	
66	06-JAN-2023 11:13	01052366.D	5	22L0246-07RE1	
67	06-JAN-2023 11:34	01052367.D	1	22L0246-05	
68	06-JAN-2023 11:55	01052368.D	1	22L0246-09	
69	06-JAN-2023 12:16	01052369.D	1	22L0199-40	
70	06-JAN-2023 12:37	01052370.D	5	22L0199-41RE2	
71	06-JAN-2023 12:58	01052371.D	5	22L0199-42RE2	
72	06-JAN-2023 13:19	01052372.D	1	AR1242CCV9	
73	06-JAN-2023 13:40	01052373.D	1	AR1660CCVA	
74	06-JAN-2023 14:02	01052374.D	1	22L0199-25	
75	06-JAN-2023 14:23	01052375.D	1	22L0199-26	
76	06-JAN-2023 14:44	01052376.D	1	22L0199-27	
77	06-JAN-2023 15:05	01052377.D	1	22L0199-28	
78	06-JAN-2023 15:26	01052378.D	1	22L0199-29	
79	06-JAN-2023 15:47	01052379.D	20	22L0199-30	
80	06-JAN-2023 16:08	01052380.D	1	22L0199-33	
81	06-JAN-2023 16:29	01052381.D	1	22L0199-34	
82	06-JAN-2023 16:50	01052382.D	1	22L0199-35	
83	06-JAN-2023 17:11	01052383.D	1	22L0199-36	
84	06-JAN-2023 17:32	01052384.D	1	AR1254CCVB	
85	06-JAN-2023 17:53	01052385.D	1	AR1660CCVC	
86	06-JAN-2023 18:15	01052386.D	1	22L0199-37	
87	06-JAN-2023 18:36	01052387.D	1	22L0199-38	
88	06-JAN-2023 18:57	01052388.D	1	22L0199-39	
89	06-JAN-2023 19:18	01052389.D	5	22L0307-01RE1	
90	06-JAN-2023 19:39	01052390.D	1	22L0137-19	
91	06-JAN-2023 20:00	01052391.D	5	22L0199-7RE3	
92	06-JAN-2023 20:21	01052392.D	1	AR1242CCVD	
93	06-JAN-2023 20:42	01052393.D	1	AR1660CCVE	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 05-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1222	01052301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1243	01052302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1304	01052303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1326	01052304ECD7.D	BLA0052-BLK1		1	NO MANUAL INTEGRATION
1347	01052305ECD7.D	BLA0052-BS1		1	NO MANUAL INTEGRATION
1408	01052306ECD7.D	23A0030-01		1	NO MANUAL INTEGRATION
1429	01052307ECD7.D	23A0030-01RE1		5	NO MANUAL INTEGRATION
1450	01052308ECD7.D	BLA0047-BLK1		1	NO MANUAL INTEGRATION
1511	01052309ECD7.D	BLA0047-BS1		1	NO MANUAL INTEGRATION
1532	01052310ECD7.D	BLA0047-BSD1		1	NO MANUAL INTEGRATION
1553	01052311ECD7.D	22L0663-01		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-HBBP, Decachlorobiphenyl,
1615	01052312ECD7.D	22L0663-01RE1		5	NO MANUAL INTEGRATION
1636	01052313ECD7.D	BLA0043-BLK1		1	NO MANUAL INTEGRATION
1657	01052314ECD7.D	BLA0043-BS1		1	NO MANUAL INTEGRATION
1718	01052315ECD7.D	BLA0043-BSD1		1	NO MANUAL INTEGRATION
1739	01052316ECD7.D	22L0661-01		1	Tetrachloro-m-xylene,
1800	01052317ECD7.D	23A0027-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1821	01052318ECD7.D	SCVA250		1	NO MANUAL INTEGRATION
1842	01052319ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1904	01052320ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1925	01052321ECD7.D	22L0246-11		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
1946	01052322ECD7.D	22L0246-12		1	Aroclor-1254, Aroclor-1260,
2007	01052323ECD7.D	22L0246-13		1	NO MANUAL INTEGRATION
2028	01052324ECD7.D	22L0246-14		1	NO MANUAL INTEGRATION
2049	01052325ECD7.D	22L0246-15		1	Aroclor-1254, Aroclor-1260,
2110	01052326ECD7.D	22L0246-16		1	Aroclor-1254,
2131	01052327ECD7.D	22L0246-17		1	Aroclor-1254,
2152	01052328ECD7.D	22L0246-18		1	NO MANUAL INTEGRATION
2214	01052329ECD7.D	22L0246-19		1	NO MANUAL INTEGRATION
2235	01052330ECD7.D	22L0246-20		1	NO MANUAL INTEGRATION
2256	01052331ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2317	01052332ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2338	01052333ECD7.D	BKL0613-BLK1		1	NO MANUAL INTEGRATION
2359	01052334ECD7.D	BKL0613-BS1		1	NO MANUAL INTEGRATION
0020	01052335ECD7.D	BKL0613-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0041	01052336ECD7.D	BKL0613-SRM1		1	NO MANUAL INTEGRATION
0102	01052337ECD7.D	BKL0613-MS1		1	NO MANUAL INTEGRATION
0123	01052338ECD7.D	BKL0613-MSD1		1	NO MANUAL INTEGRATION
0145	01052339ECD7.D	BKL0613-MS2		1	NO MANUAL INTEGRATION
0206	01052340ECD7.D	BKL0613-MSD2		1	NO MANUAL INTEGRATION
0227	01052341ECD7.D	22L0473-01		1	Aroclor-1254, Aroclor-1260,
0248	01052342ECD7.D	22L0473-02		1	NO MANUAL INTEGRATION
0309	01052343ECD7.D	22L0473-03		1	NO MANUAL INTEGRATION
0330	01052344ECD7.D	22L0473-04		1	Aroclor-1254,
0351	01052345ECD7.D	22L0473-05		1	NO MANUAL INTEGRATION
0412	01052346ECD7.D	22L0473-06		1	NO MANUAL INTEGRATION
0433	01052347ECD7.D	22L0473-07		1	NO MANUAL INTEGRATION
0454	01052348ECD7.D	22L0473-08		1	NO MANUAL INTEGRATION
0515	01052349ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0536	01052350ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0557	01052351ECD7.D	22L0473-09		1	NO MANUAL INTEGRATION
0618	01052352ECD7.D	22L0473-10		1	NO MANUAL INTEGRATION
0639	01052353ECD7.D	22L0473-11		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0700	01052354ECD7.D	22L0492-12		1	NO MANUAL INTEGRATION
0722	01052355ECD7.D	22L0492-13		1	NO MANUAL INTEGRATION
0743	01052356ECD7.D	22L0492-14		1	Aroclor-1254,
0804	01052357ECD7.D	22L0492-15		1	NO MANUAL INTEGRATION
0825	01052358ECD7.D	22L0492-16		1	NO MANUAL INTEGRATION
0846	01052359ECD7.D	22L0492-17		1	Aroclor-1260,
0907	01052360ECD7.D	22L0492-18		1	Aroclor-1254, Aroclor-1260,
0928	01052361ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0949	01052362ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
1010	01052363ECD7.D	22L0246-21RE1		10	Aroclor-1254,
1031	01052364ECD7.D	22L0246-22RE1		10	Aroclor-1254,
1052	01052365ECD7.D	22L0246-06RE1		10	NO MANUAL INTEGRATION
1113	01052366ECD7.D	22L0246-07RE1		5	NO MANUAL INTEGRATION
1134	01052367ECD7.D	22L0246-05		1	Aroclor-1254,
1155	01052368ECD7.D	22L0246-09		1	NO MANUAL INTEGRATION
1216	01052369ECD7.D	22L0199-40		1	Aroclor-1254,
1237	01052370ECD7.D	22L0199-41RE2		5	Aroclor-1254,
1258	01052371ECD7.D	22L0199-42RE2		5	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1319	01052372ECD7.D	AR1242CCV9		1	Aroclor-1242,
1340	01052373ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1402	01052374ECD7.D	22L0199-25		1	Aroclor-1254,
1423	01052375ECD7.D	22L0199-26		1	Aroclor-1254,
1444	01052376ECD7.D	22L0199-27		1	Aroclor-1254,
1505	01052377ECD7.D	22L0199-28		1	NO MANUAL INTEGRATION
1526	01052378ECD7.D	22L0199-29		1	Aroclor-1254,
1547	01052379ECD7.D	22L0199-30		20	Aroclor-1254,
1608	01052380ECD7.D	22L0199-33		1	NO MANUAL INTEGRATION
1629	01052381ECD7.D	22L0199-34		1	NO MANUAL INTEGRATION
1650	01052382ECD7.D	22L0199-35		1	Aroclor-1254,
1711	01052383ECD7.D	22L0199-36		1	Aroclor-1254,
1732	01052384ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1753	01052385ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION
1815	01052386ECD7.D	22L0199-37		1	Aroclor-1254,
1836	01052387ECD7.D	22L0199-38		1	Aroclor-1254,
1857	01052388ECD7.D	22L0199-39		1	Aroclor-1254,
1918	01052389ECD7.D	22L0307-01RE1		5	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1939	01052390ECD7.D	22L0137-19		1	Aroclor-1254,
2000	01052391ECD7.D	22L0199-7RE3		5	NO MANUAL INTEGRATION
2021	01052392ECD7.D	AR1242CCVD		1	Aroclor-1242,
2042	01052393ECD7.D	AR1660CCVE		1	NO MANUAL INTEGRATION
1222	01052301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1243	01052302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1304	01052303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1326	01052304ECD7.D	BLA0052-BLK1		1	NO MANUAL INTEGRATION
1347	01052305ECD7.D	BLA0052-BS1		1	NO MANUAL INTEGRATION
1408	01052306ECD7.D	23A0030-01		1	NO MANUAL INTEGRATION
1429	01052307ECD7.D	23A0030-01RE1		5	NO MANUAL INTEGRATION
1450	01052308ECD7.D	BLA0047-BLK1		1	NO MANUAL INTEGRATION
1511	01052309ECD7.D	BLA0047-BS1		1	NO MANUAL INTEGRATION
1532	01052310ECD7.D	BLA0047-BSD1		1	NO MANUAL INTEGRATION
1553	01052311ECD7.D	22L0663-01		1	Aroclor-1260 [2C],
1615	01052312ECD7.D	22L0663-01RE1		5	NO MANUAL INTEGRATION
1636	01052313ECD7.D	BLA0043-BLK1		1	NO MANUAL INTEGRATION
1657	01052314ECD7.D	BLA0043-BS1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1718	01052315ECD7.D	BLA0043-BSD1		1	NO MANUAL INTEGRATION
1739	01052316ECD7.D	22L0661-01		1	NO MANUAL INTEGRATION
1800	01052317ECD7.D	23A0027-01		1	NO MANUAL INTEGRATION
1821	01052318ECD7.D	SCVA250		1	NO MANUAL INTEGRATION
1842	01052319ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1904	01052320ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1925	01052321ECD7.D	22L0246-11		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1946	01052322ECD7.D	22L0246-12		1	NO MANUAL INTEGRATION
2007	01052323ECD7.D	22L0246-13		1	NO MANUAL INTEGRATION
2028	01052324ECD7.D	22L0246-14		1	NO MANUAL INTEGRATION
2049	01052325ECD7.D	22L0246-15		1	Aroclor-1248 [2C],
2110	01052326ECD7.D	22L0246-16		1	Aroclor-1248 [2C],
2131	01052327ECD7.D	22L0246-17		1	Aroclor-1248 [2C],
2152	01052328ECD7.D	22L0246-18		1	NO MANUAL INTEGRATION
2214	01052329ECD7.D	22L0246-19		1	NO MANUAL INTEGRATION
2235	01052330ECD7.D	22L0246-20		1	NO MANUAL INTEGRATION
2256	01052331ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2317	01052332ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2338	01052333ECD7.D	BKL0613-BLK1		1	NO MANUAL INTEGRATION
2359	01052334ECD7.D	BKL0613-BS1		1	NO MANUAL INTEGRATION
0020	01052335ECD7.D	BKL0613-BSD1		1	NO MANUAL INTEGRATION
0041	01052336ECD7.D	BKL0613-SRM1		1	NO MANUAL INTEGRATION
0102	01052337ECD7.D	BKL0613-MS1		1	NO MANUAL INTEGRATION
0123	01052338ECD7.D	BKL0613-MSD1		1	NO MANUAL INTEGRATION
0145	01052339ECD7.D	BKL0613-MS2		1	NO MANUAL INTEGRATION
0206	01052340ECD7.D	BKL0613-MSD2		1	NO MANUAL INTEGRATION
0227	01052341ECD7.D	22L0473-01		1	NO MANUAL INTEGRATION
0248	01052342ECD7.D	22L0473-02		1	NO MANUAL INTEGRATION
0309	01052343ECD7.D	22L0473-03		1	NO MANUAL INTEGRATION
0330	01052344ECD7.D	22L0473-04		1	NO MANUAL INTEGRATION
0351	01052345ECD7.D	22L0473-05		1	NO MANUAL INTEGRATION
0412	01052346ECD7.D	22L0473-06		1	NO MANUAL INTEGRATION
0433	01052347ECD7.D	22L0473-07		1	NO MANUAL INTEGRATION
0454	01052348ECD7.D	22L0473-08		1	NO MANUAL INTEGRATION
0515	01052349ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0536	01052350ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0557	01052351ECD7.D	22L0473-09		1	NO MANUAL INTEGRATION
0618	01052352ECD7.D	22L0473-10		1	NO MANUAL INTEGRATION
0639	01052353ECD7.D	22L0473-11		1	NO MANUAL INTEGRATION
0700	01052354ECD7.D	22L0492-12		1	NO MANUAL INTEGRATION
0722	01052355ECD7.D	22L0492-13		1	NO MANUAL INTEGRATION
0743	01052356ECD7.D	22L0492-14		1	Aroclor-1260 [2C],
0804	01052357ECD7.D	22L0492-15		1	NO MANUAL INTEGRATION
0825	01052358ECD7.D	22L0492-16		1	NO MANUAL INTEGRATION
0846	01052359ECD7.D	22L0492-17		1	NO MANUAL INTEGRATION
0907	01052360ECD7.D	22L0492-18		1	Aroclor-1254 [2C],
0928	01052361ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0949	01052362ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
1010	01052363ECD7.D	22L0246-21RE1		10	Aroclor-1248 [2C],
1031	01052364ECD7.D	22L0246-22RE1		10	Aroclor-1248 [2C],
1052	01052365ECD7.D	22L0246-06RE1		10	NO MANUAL INTEGRATION
1113	01052366ECD7.D	22L0246-07RE1		5	NO MANUAL INTEGRATION
1134	01052367ECD7.D	22L0246-05		1	NO MANUAL INTEGRATION
1155	01052368ECD7.D	22L0246-09		1	Aroclor-1260 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1216	01052369ECD7.D	22L0199-40		1	Aroclor-1248 [2C],
1237	01052370ECD7.D	22L0199-41RE2		5	Aroclor-1248 [2C],
1258	01052371ECD7.D	22L0199-42RE2		5	Aroclor-1248 [2C],
1319	01052372ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1340	01052373ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1402	01052374ECD7.D	22L0199-25		1	Aroclor-1248 [2C],
1423	01052375ECD7.D	22L0199-26		1	Aroclor-1248 [2C],
1444	01052376ECD7.D	22L0199-27		1	Aroclor-1248 [2C],
1505	01052377ECD7.D	22L0199-28		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1526	01052378ECD7.D	22L0199-29		1	Aroclor-1248 [2C],
1547	01052379ECD7.D	22L0199-30		20	Aroclor-1248 [2C],
1608	01052380ECD7.D	22L0199-33		1	NO MANUAL INTEGRATION
1629	01052381ECD7.D	22L0199-34		1	NO MANUAL INTEGRATION
1650	01052382ECD7.D	22L0199-35		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1711	01052383ECD7.D	22L0199-36		1	Aroclor-1248 [2C],
1732	01052384ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1753	01052385ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION
1815	01052386ECD7.D	22L0199-37		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1836	01052387ECD7.D	22L0199-38		1	Aroclor-1248 [2C],
1857	01052388ECD7.D	22L0199-39		1	Aroclor-1248 [2C],
1918	01052389ECD7.D	22L0307-01RE1		5	NO MANUAL INTEGRATION
1939	01052390ECD7.D	22L0137-19		1	Aroclor-1248 [2C],
2000	01052391ECD7.D	22L0199-7RE3		5	NO MANUAL INTEGRATION
2021	01052392ECD7.D	AR1242CCVD		1	NO MANUAL INTEGRATION
2042	01052393ECD7.D	AR1660CCVE		1	NO MANUAL INTEGRATION

Security Status Report

Date: 10-Jan-2023 14:11

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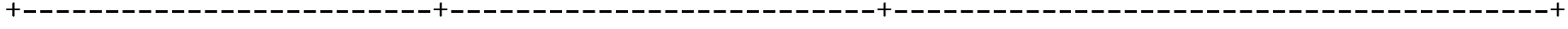

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0048
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0048-SCV1 (Water)			Lab File ID: 12032222ECD7.D			Analyzed: 12/03/22 22:13		
Decachlorobiphenyl	40.000	99.5	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.4	80 - 120	14.137	14.13533	0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	90.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV2 (Water)			Lab File ID: 12032223ECD7.D			Analyzed: 12/03/22 22:34		
Decachlorobiphenyl	40.000	97.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.9	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	95.0	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV3 (Water)			Lab File ID: 12032224ECD7.D			Analyzed: 12/03/22 22:55		
Decachlorobiphenyl	40.000	98.3	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	86.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	87.7	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV4 (Water)			Lab File ID: 12032225ECD7.D			Analyzed: 12/03/22 23:17		
Decachlorobiphenyl	40.000	98.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	90.0	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV5 (Water)			Lab File ID: 12032226ECD7.D			Analyzed: 12/03/22 23:38		
Decachlorobiphenyl	40.000	100	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	90.2	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	96.1	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV6 (Water)			Lab File ID: 12032227ECD7.D			Analyzed: 12/03/22 23:59		
Decachlorobiphenyl	40.000	140	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	86.2	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	137	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	85.6	80 - 120	5.711	5.712333	-0.0013	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0370
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0370-CCV3 (Solid)			Lab File ID: 12292233ECD7.D			Analyzed: 12/29/22 20:10		
Decachlorobiphenyl	40.000	105	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	96.8	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0370-CCV4 (Solid)			Lab File ID: 12292234ECD7.D			Analyzed: 12/29/22 20:31		
Decachlorobiphenyl	40.000	115	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	99.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	99.5	80 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-43 (Solid)			Lab File ID: 12292237ECD7.D			Analyzed: 12/29/22 21:34		
Decachlorobiphenyl	7.9828	119	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9828	71.7	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9828	114	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9828	80.5	44 - 120	5.701	5.712333	-0.0113	N/A	
BKL0401-MSD1 (Solid)			Lab File ID: 12292240ECD7.D			Analyzed: 12/29/22 22:37		
Decachlorobiphenyl	7.9468	116	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	7.9468	84.5	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9468	115	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9468	89.1	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-01 (Solid)			Lab File ID: 12292241ECD7.D			Analyzed: 12/29/22 22:58		
Decachlorobiphenyl	7.9846	115	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9846	71.4	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9846	105	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9846	79.9	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0199-02 (Solid)			Lab File ID: 12292242ECD7.D			Analyzed: 12/29/22 23:20		
Decachlorobiphenyl	7.9886	131	40 - 126	13.896	13.90667	-0.0107	N/A	*
Tetrachlorometaxylene	7.9886	95.7	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9886	122	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9886	97.6	44 - 120	5.704	5.712333	-0.0083	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0370
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-03 (Solid)			Lab File ID: 12292243ECD7.D				Analyzed: 12/29/22 23:41	
Decachlorobiphenyl	7.9545	110	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9545	82.7	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9545	98.7	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9545	86.1	44 - 120	5.702	5.712333	-0.0103	N/A	
SKL0370-CCV5 (Solid)			Lab File ID: 12292245ECD7.D				Analyzed: 12/30/22 00:23	
Decachlorobiphenyl	40.000	108	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	92.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	91.8	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0370-CCV6 (Solid)			Lab File ID: 12292246ECD7.D				Analyzed: 12/30/22 00:44	
Decachlorobiphenyl	40.000	114	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0199-09 (Solid)			Lab File ID: 12292248ECD7.D				Analyzed: 12/30/22 01:26	
Decachlorobiphenyl	7.8983	122	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.8983	76.2	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.8983	110	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.8983	84.0	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0199-13 (Solid)			Lab File ID: 12292249ECD7.D				Analyzed: 12/30/22 01:47	
Decachlorobiphenyl	7.9132	206	40 - 126	13.898	13.90667	-0.0087	N/A	*
Tetrachlorometaxylene	7.9132	81.1	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9132	211	40 - 126	14.124	14.13533	-0.0113	N/A	*
Tetrachlorometaxylene [2C]	7.9132	85.3	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-15 (Solid)			Lab File ID: 12292250ECD7.D				Analyzed: 12/30/22 02:08	
Decachlorobiphenyl	7.9664	145	40 - 126	13.899	13.90667	-0.0077	N/A	*
Tetrachlorometaxylene	7.9664	91.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9664	148	40 - 126	14.126	14.13533	-0.0093	N/A	*
Tetrachlorometaxylene [2C]	7.9664	92.2	44 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0370
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0370-CCV7 (Solid)			Lab File ID: 12292251ECD7.D			Analyzed: 12/30/22 02:30		
Decachlorobiphenyl	40.000	105	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	95.5	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0370-CCV8 (Solid)			Lab File ID: 12292252ECD7.D			Analyzed: 12/30/22 02:51		
Decachlorobiphenyl	40.000	110	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	100	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.709	5.712333	-0.0033	N/A	
SKL0370-CCV9 (Solid)			Lab File ID: 12292263ECD7.D			Analyzed: 12/30/22 06:43		
Decachlorobiphenyl	40.000	102	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	96.3	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	96.8	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0370-CCVA (Solid)			Lab File ID: 12292264ECD7.D			Analyzed: 12/30/22 07:04		
Decachlorobiphenyl	40.000	115	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	98.5	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0370-CCVB (Solid)			Lab File ID: 12292269ECD7.D			Analyzed: 12/30/22 08:50		
Decachlorobiphenyl	40.000	106	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	89.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	88.5	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0370-CCVC (Solid)			Lab File ID: 12292270ECD7.D			Analyzed: 12/30/22 09:11		
Decachlorobiphenyl	40.000	111	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	99.3	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	99.5	80 - 120	5.708	5.712333	-0.0043	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0377-ICV1 (Solid)			Lab File ID: 12272202ECD7.D			Analyzed: 12/27/22 17:00		
Decachlorobiphenyl	40.000	114	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	91.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	108	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	92.0	80 - 120	5.707	5.712333	-0.0053	N/A	
SKL0377-ICV2 (Solid)			Lab File ID: 12272203ECD7.D			Analyzed: 12/27/22 17:21		
Decachlorobiphenyl	40.000	114	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	106	80 - 120	5.709	5.712333	-0.0033	N/A	
BKL0404-BLK1 (Solid)			Lab File ID: 12272209ECD7.D			Analyzed: 12/27/22 19:28		
Decachlorobiphenyl	8.0000	113	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	92.7	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	8.0000	113	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	91.2	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0404-BS1 (Solid)			Lab File ID: 12272210ECD7.D			Analyzed: 12/27/22 19:49		
Decachlorobiphenyl	8.0000	123	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	8.0000	97.0	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0000	125	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	91.2	44 - 120	5.706	5.712333	-0.0063	N/A	
BKL0404-BSD1 (Solid)			Lab File ID: 12272211ECD7.D			Analyzed: 12/27/22 20:10		
Decachlorobiphenyl	8.0000	125	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	101	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	124	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	94.8	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0404-SRM1 (Solid)			Lab File ID: 12272212ECD7.D			Analyzed: 12/27/22 20:31		
Decachlorobiphenyl	40.000	113	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	40.000	92.6	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	40.000	110	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	40.000	95.1	44 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0404-MS1 (Solid)			Lab File ID: 12272213ECD7.D			Analyzed: 12/27/22 20:52		
Decachlorobiphenyl	8.0003	121	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	8.0003	94.2	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	8.0003	118	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	8.0003	99.2	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0404-MSD1 (Solid)			Lab File ID: 12272214ECD7.D			Analyzed: 12/27/22 21:13		
Decachlorobiphenyl	8.0003	116	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	8.0003	91.6	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	8.0003	116	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	8.0003	93.5	44 - 120	5.705	5.712333	-0.0073	N/A	
SKL0377-CCV1 (Solid)			Lab File ID: 12272215ECD7.D			Analyzed: 12/27/22 21:35		
Decachlorobiphenyl	40.000	104	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	93.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	95.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SKL0377-CCV2 (Solid)			Lab File ID: 12272216ECD7.D			Analyzed: 12/27/22 21:56		
Decachlorobiphenyl	40.000	109	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-46 (Solid)			Lab File ID: 12272222ECD7.D			Analyzed: 12/28/22 00:02		
Decachlorobiphenyl	7.9952	118	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	7.9952	94.1	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9952	124	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9952	95.2	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0199-47 (Solid)			Lab File ID: 12272223ECD7.D			Analyzed: 12/28/22 00:23		
Decachlorobiphenyl	7.9632	116	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9632	85.5	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9632	113	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9632	96.7	44 - 120	5.703	5.712333	-0.0093	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-48 (Solid)			Lab File ID: 12272224ECD7.D			Analyzed: 12/28/22 00:45		
Decachlorobiphenyl	7.9808	110	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9808	74.2	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9808	106	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9808	82.6	44 - 120	5.702	5.712333	-0.0103	N/A	
SKL0377-CCV3 (Solid)			Lab File ID: 12272227ECD7.D			Analyzed: 12/28/22 01:48		
Decachlorobiphenyl	40.000	104	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	106	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	98.5	80 - 120	5.71	5.712333	-0.0023	N/A	
SKL0377-CCV4 (Solid)			Lab File ID: 12272228ECD7.D			Analyzed: 12/28/22 02:09		
Decachlorobiphenyl	40.000	118	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	106	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	104	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0199-53 (Solid)			Lab File ID: 12272231ECD7.D			Analyzed: 12/28/22 03:12		
Decachlorobiphenyl	7.9985	114	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9985	85.0	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9985	111	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9985	91.9	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0199-55 (Solid)			Lab File ID: 12272233ECD7.D			Analyzed: 12/28/22 03:55		
Decachlorobiphenyl	7.9908	116	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9908	79.7	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9908	111	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9908	91.2	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0199-56 (Solid)			Lab File ID: 12272234ECD7.D			Analyzed: 12/28/22 04:16		
Decachlorobiphenyl	7.9894	107	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9894	76.3	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9894	99.5	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9894	85.4	44 - 120	5.703	5.712333	-0.0093	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-57 (Solid)			Lab File ID: 12272235ECD7.D			Analyzed: 12/28/22 04:37		
Decachlorobiphenyl	7.9606	109	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9606	79.9	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9606	101	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9606	88.4	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0199-58 (Solid)			Lab File ID: 12272236ECD7.D			Analyzed: 12/28/22 04:58		
Decachlorobiphenyl	7.9929	118	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9929	88.6	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9929	112	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9929	92.4	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-59 (Solid)			Lab File ID: 12272237ECD7.D			Analyzed: 12/28/22 05:19		
Decachlorobiphenyl	7.9850	117	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9850	86.8	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9850	108	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9850	93.0	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-60 (Solid)			Lab File ID: 12272238ECD7.D			Analyzed: 12/28/22 05:40		
Decachlorobiphenyl	7.9727	116	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	7.9727	92.0	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9727	113	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9727	96.1	44 - 120	5.707	5.712333	-0.0053	N/A	
SKL0377-CCV5 (Solid)			Lab File ID: 12272239ECD7.D			Analyzed: 12/28/22 06:01		
Decachlorobiphenyl	40.000	111	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	96.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.5	80 - 120	5.709	5.712333	-0.0033	N/A	
SKL0377-CCV6 (Solid)			Lab File ID: 12272240ECD7.D			Analyzed: 12/28/22 06:22		
Decachlorobiphenyl	40.000	113	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	101	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	99.8	80 - 120	5.71	5.712333	-0.0023	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0401-BLK1 (Solid)			Lab File ID: 12272241ECD7.D			Analyzed: 12/28/22 06:43		
Decachlorobiphenyl	8.0000	136	40 - 126	13.902	13.90667	-0.0047	N/A	*
Tetrachlorometaxylene	8.0000	105	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	132	40 - 126	14.129	14.13533	-0.0063	N/A	*
Tetrachlorometaxylene [2C]	8.0000	99.4	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0401-BS1 (Solid)			Lab File ID: 12272242ECD7.D			Analyzed: 12/28/22 07:05		
Decachlorobiphenyl	8.0000	116	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	8.0000	97.9	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	8.0000	120	40 - 126	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	8.0000	94.5	44 - 120	5.709	5.712333	-0.0033	N/A	
BKL0401-BSD1 (Solid)			Lab File ID: 12272243ECD7.D			Analyzed: 12/28/22 07:26		
Decachlorobiphenyl	8.0000	107	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	90.2	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	8.0000	112	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	8.0000	86.1	44 - 120	5.708	5.712333	-0.0043	N/A	
BKL0401-SRM1 (Solid)			Lab File ID: 12272244ECD7.D			Analyzed: 12/28/22 07:47		
Decachlorobiphenyl	40.000	108	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	40.000	86.5	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	40.000	106	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	40.000	91.5	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0401-MS1 (Solid)			Lab File ID: 12272245ECD7.D			Analyzed: 12/28/22 08:08		
Decachlorobiphenyl	7.9468	109	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	7.9468	80.3	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9468	111	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	7.9468	87.8	44 - 120	5.704	5.712333	-0.0083	N/A	
SKL0377-CCV7 (Solid)			Lab File ID: 12272247ECD7.D			Analyzed: 12/28/22 08:50		
Decachlorobiphenyl	40.000	104	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	93.5	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.13	14.13533	-0.0053	N/A	
Tetrachlorometaxylene [2C]	40.000	94.3	80 - 120	5.708	5.712333	-0.0043	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0377-CCV8 (Solid)			Lab File ID: 12272248ECD7.D			Analyzed: 12/28/22 09:11		
Decachlorobiphenyl	40.000	108	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-05 (Solid)			Lab File ID: 12272253ECD7.D			Analyzed: 12/28/22 10:57		
Decachlorobiphenyl	7.8982	107	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.8982	77.1	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.8982	107	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.8982	86.8	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0199-06 (Solid)			Lab File ID: 12272254ECD7.D			Analyzed: 12/28/22 11:18		
Decachlorobiphenyl	7.9724	111	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9724	83.7	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9724	109	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9724	89.7	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0199-08 (Solid)			Lab File ID: 12272256ECD7.D			Analyzed: 12/28/22 12:00		
Decachlorobiphenyl	7.9002	101	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9002	79.2	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9002	97.8	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9002	86.3	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0199-10 (Solid)			Lab File ID: 12272258ECD7.D			Analyzed: 12/28/22 12:42		
Decachlorobiphenyl	7.9302	106	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9302	75.6	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9302	101	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9302	91.0	44 - 120	5.702	5.712333	-0.0103	N/A	
SKL0377-CCV9 (Solid)			Lab File ID: 12272259ECD7.D			Analyzed: 12/28/22 13:03		
Decachlorobiphenyl	40.000	109	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	109	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0377-CCVA (Solid)			Lab File ID: 12272260ECD7.D				Analyzed: 12/28/22 13:24	
Decachlorobiphenyl	40.000	121	80 - 120	13.903	13.90667	-0.0037	N/A	*
Tetrachlorometaxylene	40.000	101	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	110	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	103	80 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-11 (Solid)			Lab File ID: 12272261ECD7.D				Analyzed: 12/28/22 13:45	
Decachlorobiphenyl	7.9292	118	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	7.9292	87.5	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9292	117	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9292	101	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-12 (Solid)			Lab File ID: 12272262ECD7.D				Analyzed: 12/28/22 14:06	
Decachlorobiphenyl	7.9468	111	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	7.9468	80.0	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9468	115	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9468	88.1	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-14 (Solid)			Lab File ID: 12272264ECD7.D				Analyzed: 12/28/22 14:49	
Decachlorobiphenyl	7.9611	115	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	7.9611	86.2	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9611	122	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9611	89.2	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-16 (Solid)			Lab File ID: 12272266ECD7.D				Analyzed: 12/28/22 15:31	
Decachlorobiphenyl	7.9341	116	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	7.9341	81.6	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9341	121	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	7.9341	90.9	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0199-17 (Solid)			Lab File ID: 12272267ECD7.D				Analyzed: 12/28/22 15:52	
Decachlorobiphenyl	7.9604	116	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	7.9604	84.6	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9604	121	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	7.9604	91.3	44 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0377
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-18 (Solid)			Lab File ID: 12272268ECD7.D				Analyzed: 12/28/22 16:13	
Decachlorobiphenyl	7.9673	112	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	7.9673	82.1	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9673	119	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	7.9673	87.4	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-19 (Solid)			Lab File ID: 12272269ECD7.D				Analyzed: 12/28/22 16:34	
Decachlorobiphenyl	7.9119	116	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	7.9119	91.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9119	124	40 - 126	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	7.9119	92.0	44 - 120	5.707	5.712333	-0.0053	N/A	
22L0199-20 (Solid)			Lab File ID: 12272270ECD7.D				Analyzed: 12/28/22 16:55	
Decachlorobiphenyl	7.9207	115	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	7.9207	89.7	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	7.9207	123	40 - 126	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	7.9207	89.8	44 - 120	5.707	5.712333	-0.0053	N/A	
SKL0377-CCVB (Solid)			Lab File ID: 12272271ECD7.D				Analyzed: 12/28/22 17:16	
Decachlorobiphenyl	40.000	108	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	96.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	109	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	96.0	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0377-CCVC (Solid)			Lab File ID: 12272272ECD7.D				Analyzed: 12/28/22 17:38	
Decachlorobiphenyl	40.000	112	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	109	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	103	80 - 120	5.708	5.712333	-0.0043	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0035
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0035-ICV1 (Water)			Lab File ID: 12302202ECD7.D			Analyzed: 12/30/22 11:41		
Decachlorobiphenyl	40.000	110	0 - 200	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	89.3	0 - 200	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	0 - 200	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	88.3	0 - 200	5.707	5.712333	-0.0053	N/A	
SLA0035-ICV2 (Water)			Lab File ID: 12302203ECD7.D			Analyzed: 12/30/22 12:02		
Decachlorobiphenyl	40.000	111	0 - 200	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	96.3	0 - 200	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	101	0 - 200	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	98.8	0 - 200	5.708	5.712333	-0.0043	N/A	
SLA0035-CCV1 (Water)			Lab File ID: 12302208ECD7.D			Analyzed: 12/30/22 13:47		
Decachlorobiphenyl	40.000	104	0 - 200	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	93.0	0 - 200	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	99.5	0 - 200	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	91.5	0 - 200	5.708	5.712333	-0.0043	N/A	
SLA0035-CCV2 (Water)			Lab File ID: 12302209ECD7.D			Analyzed: 12/30/22 14:09		
Decachlorobiphenyl	40.000	109	0 - 200	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	98.3	0 - 200	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	101	0 - 200	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	0 - 200	5.708	5.712333	-0.0043	N/A	
BKL0402-BLK1 (Solid)			Lab File ID: 12302210ECD7.D			Analyzed: 12/30/22 14:30		
Decachlorobiphenyl	8.0000	118	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	94.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0000	116	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	8.0000	91.5	44 - 120	5.706	5.712333	-0.0063	N/A	
BKL0402-BS1 (Solid)			Lab File ID: 12302211ECD7.D			Analyzed: 12/30/22 14:51		
Decachlorobiphenyl	8.0000	112	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	96.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0000	117	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	91.7	44 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0035	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0402-BSD1 (Solid)			Lab File ID: 12302212ECD7.D			Analyzed: 12/30/22 15:12		
Decachlorobiphenyl	8.0000	108	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	95.7	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	115	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	89.9	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0402-SRM1 (Solid)			Lab File ID: 12302213ECD7.D			Analyzed: 12/30/22 15:33		
Decachlorobiphenyl	40.000	110	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	40.000	86.3	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	40.000	103	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	40.000	91.0	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0402-MS1 (Solid)			Lab File ID: 12302214ECD7.D			Analyzed: 12/30/22 15:54		
Decachlorobiphenyl	7.9932	108	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	7.9932	85.1	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9932	113	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	7.9932	84.6	44 - 120	5.706	5.712333	-0.0063	N/A	
BKL0402-MSD1 (Solid)			Lab File ID: 12302215ECD7.D			Analyzed: 12/30/22 16:15		
Decachlorobiphenyl	7.9989	109	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	7.9989	92.1	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	7.9989	114	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9989	88.5	44 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-21 (Solid)			Lab File ID: 12302216ECD7.D			Analyzed: 12/30/22 16:36		
Decachlorobiphenyl	7.9932	109	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	7.9932	88.5	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	7.9932	112	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	7.9932	93.0	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-22 (Solid)			Lab File ID: 12302217ECD7.D			Analyzed: 12/30/22 16:58		
Decachlorobiphenyl	7.9831	115	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	7.9831	82.2	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9831	116	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9831	100	44 - 120	5.705	5.712333	-0.0073	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0035
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-23 (Solid)			Lab File ID: 12302218ECD7.D			Analyzed: 12/30/22 17:19		
Decachlorobiphenyl	7.9507	107	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9507	90.3	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9507	100	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9507	90.2	44 - 120	5.704	5.712333	-0.0083	N/A	
SLA0035-CCV3 (Water)			Lab File ID: 12302225ECD7.D			Analyzed: 12/30/22 19:46		
Decachlorobiphenyl	40.000	106	0 - 200	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	94.5	0 - 200	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	99.8	0 - 200	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	95.3	0 - 200	5.708	5.712333	-0.0043	N/A	
SLA0035-CCV4 (Water)			Lab File ID: 12302226ECD7.D			Analyzed: 12/30/22 20:08		
Decachlorobiphenyl	40.000	117	0 - 200	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	97.5	0 - 200	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	103	0 - 200	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	99.8	0 - 200	5.709	5.712333	-0.0033	N/A	
SLA0035-CCV5 (Water)			Lab File ID: 12302237ECD7.D			Analyzed: 12/31/22 00:00		
Decachlorobiphenyl	40.000	110	0 - 200	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	92.0	0 - 200	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	102	0 - 200	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	91.3	0 - 200	5.707	5.712333	-0.0053	N/A	
SLA0035-CCV6 (Water)			Lab File ID: 12302238ECD7.D			Analyzed: 12/31/22 00:21		
Decachlorobiphenyl	40.000	116	0 - 200	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.5	0 - 200	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	104	0 - 200	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	100	0 - 200	5.709	5.712333	-0.0033	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0071
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0071-ICV1 (Solid)			Lab File ID: 12312202ECD7.D			Analyzed: 12/31/22 10:31		
Decachlorobiphenyl	40.000	118	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	91.8	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	90.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0071-ICV2 (Solid)			Lab File ID: 12312203ECD7.D			Analyzed: 12/31/22 10:52		
Decachlorobiphenyl	40.000	115	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	99.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.708	5.712333	-0.0043	N/A	
BKL0488-BLK1 (Solid)			Lab File ID: 12312204ECD7.D			Analyzed: 12/31/22 11:13		
Decachlorobiphenyl	8.0000	126	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	100	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	124	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	8.0000	95.5	44 - 120	5.706	5.712333	-0.0063	N/A	
BKL0488-BS1 (Solid)			Lab File ID: 12312205ECD7.D			Analyzed: 12/31/22 11:34		
Decachlorobiphenyl	8.0000	117	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	8.0000	99.1	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	8.0000	124	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	92.8	44 - 120	5.708	5.712333	-0.0043	N/A	
BKL0488-BSD1 (Solid)			Lab File ID: 12312206ECD7.D			Analyzed: 12/31/22 11:55		
Decachlorobiphenyl	8.0000	113	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	8.0000	97.6	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	119	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	90.6	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0488-SRM1 (Solid)			Lab File ID: 12312207ECD7.D			Analyzed: 12/31/22 12:16		
Decachlorobiphenyl	40.000	106	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	40.000	89.3	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	40.000	100	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	40.000	89.5	44 - 120	5.705	5.712333	-0.0073	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0071	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0488-MS1 (Solid)			Lab File ID: 12312208ECD7.D			Analyzed: 12/31/22 12:37		
Decachlorobiphenyl	8.0017	111	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	8.0017	84.6	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	8.0017	102	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	8.0017	92.8	44 - 120	5.703	5.712333	-0.0093	N/A	
BKL0488-MSD1 (Solid)			Lab File ID: 12312209ECD7.D			Analyzed: 12/31/22 12:58		
Decachlorobiphenyl	8.0017	110	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.0017	84.6	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	8.0017	102	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	8.0017	94.9	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0199-63 (Solid)			Lab File ID: 12312212ECD7.D			Analyzed: 12/31/22 14:02		
Decachlorobiphenyl	7.9930	109	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9930	72.9	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9930	104	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9930	83.3	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0199-64 (Solid)			Lab File ID: 12312213ECD7.D			Analyzed: 12/31/22 14:23		
Decachlorobiphenyl	7.9782	107	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9782	69.8	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9782	100	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9782	80.4	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0199-65 (Solid)			Lab File ID: 12312214ECD7.D			Analyzed: 12/31/22 14:44		
Decachlorobiphenyl	7.9828	104	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9828	68.0	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9828	98.9	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9828	84.3	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0199-66 (Solid)			Lab File ID: 12312215ECD7.D			Analyzed: 12/31/22 15:05		
Decachlorobiphenyl	7.9959	111	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9959	78.9	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9959	103	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9959	93.6	44 - 120	5.703	5.712333	-0.0093	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0071
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-67 (Solid)			Lab File ID: 12312216ECD7.D			Analyzed: 12/31/22 15:26		
Decachlorobiphenyl	7.9910	102	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9910	72.5	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9910	94.8	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9910	86.6	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0199-68 (Solid)			Lab File ID: 12312217ECD7.D			Analyzed: 12/31/22 15:47		
Decachlorobiphenyl	8.0018	109	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.0018	77.4	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	8.0018	102	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	8.0018	91.6	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0199-69 (Solid)			Lab File ID: 12312218ECD7.D			Analyzed: 12/31/22 16:08		
Decachlorobiphenyl	7.9708	107	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9708	78.5	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9708	98.6	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9708	88.7	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0199-70 (Solid)			Lab File ID: 12312219ECD7.D			Analyzed: 12/31/22 16:29		
Decachlorobiphenyl	7.9845	107	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9845	81.3	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9845	98.7	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9845	91.1	44 - 120	5.703	5.712333	-0.0093	N/A	
SLA0071-CCV1 (Solid)			Lab File ID: 12312220ECD7.D			Analyzed: 12/31/22 16:50		
Decachlorobiphenyl	40.000	106	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	89.5	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	91.8	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0071-CCV2 (Solid)			Lab File ID: 12312221ECD7.D			Analyzed: 12/31/22 17:11		
Decachlorobiphenyl	40.000	113	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	99.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.709	5.712333	-0.0033	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0071
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0071-CCV3 (Solid)			Lab File ID: 12312238ECD7.D			Analyzed: 12/31/22 23:10		
Decachlorobiphenyl	40.000	105	80 - 120	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	98.3	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0071-CCV4 (Solid)			Lab File ID: 12312239ECD7.D			Analyzed: 12/31/22 23:31		
Decachlorobiphenyl	40.000	118	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0071-CCV5 (Solid)			Lab File ID: 12312250ECD7.D			Analyzed: 01/01/23 03:22		
Decachlorobiphenyl	40.000	110	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	91.3	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	90.3	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0071-CCV6 (Solid)			Lab File ID: 12312251ECD7.D			Analyzed: 01/01/23 03:43		
Decachlorobiphenyl	40.000	113	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	97.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.709	5.712333	-0.0033	N/A	
22L0199-04 (Solid)			Lab File ID: 12312252ECD7.D			Analyzed: 01/01/23 04:04		
Decachlorobiphenyl	7.9452	117	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9452	90.6	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9452	98.3	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9452	85.7	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0199-49 (Solid)			Lab File ID: 12312253ECD7.D			Analyzed: 01/01/23 04:25		
Decachlorobiphenyl	7.9935	151	40 - 126	13.894	13.90667	-0.0127	N/A	*
Tetrachlorometaxylene	7.9935	104	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	7.9935	129	40 - 126	14.124	14.13533	-0.0113	N/A	*
Tetrachlorometaxylene [2C]	7.9935	105	44 - 120	5.708	5.712333	-0.0043	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0071
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-50 (Solid)			Lab File ID: 12312254ECD7.D			Analyzed: 01/01/23 04:46		
Decachlorobiphenyl	7.9994	67.3	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9994	49.1	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9994	56.6	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9994	52.3	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-51 (Solid)			Lab File ID: 12312255ECD7.D			Analyzed: 01/01/23 05:07		
Decachlorobiphenyl	7.9920	114	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9920	92.0	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9920	100	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9920	95.3	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-52 (Solid)			Lab File ID: 12312256ECD7.D			Analyzed: 01/01/23 05:29		
Decachlorobiphenyl	7.9901	112	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9901	87.8	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	7.9901	100	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9901	90.7	44 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-54 (Solid)			Lab File ID: 12312257ECD7.D			Analyzed: 01/01/23 05:50		
Decachlorobiphenyl	7.9890	135	40 - 126	13.896	13.90667	-0.0107	N/A	*
Tetrachlorometaxylene	7.9890	110	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9890	115	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9890	107	44 - 120	5.707	5.712333	-0.0053	N/A	
SLA0071-CCV7 (Solid)			Lab File ID: 12312258ECD7.D			Analyzed: 01/01/23 06:11		
Decachlorobiphenyl	40.000	105	80 - 120	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	88.3	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	88.5	80 - 120	5.711	5.712333	-0.0013	N/A	
SLA0071-CCV8 (Solid)			Lab File ID: 12312259ECD7.D			Analyzed: 01/01/23 06:32		
Decachlorobiphenyl	40.000	112	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	95.8	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	98.5	80 - 120	5.71	5.712333	-0.0023	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0079-ICV1 (Solid)			Lab File ID: 01032302ECD7.D			Analyzed: 01/03/23 07:15		
Decachlorobiphenyl	40.000	122	80 - 120	13.903	13.90667	-0.0037	N/A	*
Tetrachlorometaxylene	40.000	98.3	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	96.3	80 - 120	5.705	5.712333	-0.0073	N/A	
SLA0079-ICV2 (Solid)			Lab File ID: 01032303ECD7.D			Analyzed: 01/03/23 07:36		
Decachlorobiphenyl	40.000	117	80 - 120	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	103	80 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-61 (Solid)			Lab File ID: 01032304ECD7.D			Analyzed: 01/03/23 09:20		
Decachlorobiphenyl	7.9971	174	40 - 126	13.907	13.90667	0.0003	N/A	*
Tetrachlorometaxylene	7.9971	107	44 - 120	5.841	5.835333	0.0057	N/A	
Decachlorobiphenyl [2C]	7.9971	127	40 - 126	14.124	14.13533	-0.0113	N/A	*
Tetrachlorometaxylene [2C]	7.9971	113	44 - 120	5.698	5.712333	-0.0143	N/A	
22L0199-62 (Solid)			Lab File ID: 01032305ECD7.D			Analyzed: 01/03/23 09:41		
Decachlorobiphenyl	7.6396	154	40 - 126	13.897	13.90667	-0.0097	N/A	*
Tetrachlorometaxylene	7.6396	108	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.6396	128	40 - 126	14.125	14.13533	-0.0103	N/A	*
Tetrachlorometaxylene [2C]	7.6396	117	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0199-31 (Solid)			Lab File ID: 01032309ECD7.D			Analyzed: 01/03/23 11:06		
Decachlorobiphenyl	6.8717	155	40 - 126	13.897	13.90667	-0.0097	N/A	*
Tetrachlorometaxylene	6.8717	126	44 - 120	5.827	5.835333	-0.0083	N/A	*
Decachlorobiphenyl [2C]	6.8717	130	40 - 126	14.124	14.13533	-0.0113	N/A	*
Tetrachlorometaxylene [2C]	6.8717	123	44 - 120	5.705	5.712333	-0.0073	N/A	*
22L0199-32 (Solid)			Lab File ID: 01032310ECD7.D			Analyzed: 01/03/23 11:27		
Decachlorobiphenyl	10.404	133	40 - 126	13.896	13.90667	-0.0107	N/A	*
Tetrachlorometaxylene	10.404	104	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	10.404	117	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	10.404	110	44 - 120	5.704	5.712333	-0.0083	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0079-CCV1 (Solid)			Lab File ID: 01032311ECD7.D			Analyzed: 01/03/23 11:48		
Decachlorobiphenyl	40.000	106	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	93.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0079-CCV2 (Solid)			Lab File ID: 01032312ECD7.D			Analyzed: 01/03/23 12:09		
Decachlorobiphenyl	40.000	113	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0199-44 (Solid)			Lab File ID: 01032327ECD7.D			Analyzed: 01/03/23 17:25		
Decachlorobiphenyl	7.9839	132	40 - 126	13.896	13.90667	-0.0107	N/A	*
Tetrachlorometaxylene	7.9839	83.7	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9839	114	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9839	183	44 - 120	5.703	5.712333	-0.0093	N/A	*
22L0199-45 (Solid)			Lab File ID: 01032328ECD7.D			Analyzed: 01/03/23 17:46		
Decachlorobiphenyl	7.9889	129	40 - 126	13.895	13.90667	-0.0117	N/A	*
Tetrachlorometaxylene	7.9889	71.9	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9889	102	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9889	143	44 - 120	5.702	5.712333	-0.0103	N/A	*
SLA0079-CCV3 (Solid)			Lab File ID: 01032330ECD7.D			Analyzed: 01/03/23 18:28		
Decachlorobiphenyl	40.000	110	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	97.3	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0079-CCV4 (Solid)			Lab File ID: 01032331ECD7.D			Analyzed: 01/03/23 18:49		
Decachlorobiphenyl	40.000	119	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	100	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0079	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0079-CCV5 (Solid)			Lab File ID: 01032347ECD7.D			Analyzed: 01/04/23 00:26		
Decachlorobiphenyl	40.000	111	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	95.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.3	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0079-CCV6 (Solid)			Lab File ID: 01032348ECD7.D			Analyzed: 01/04/23 00:47		
Decachlorobiphenyl	40.000	114	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	100	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0094-ICV1 (Solid)			Lab File ID: 01042302ECD7.D			Analyzed: 01/04/23 09:44		
Decachlorobiphenyl	40.000	115	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	92.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0094-ICV2 (Solid)			Lab File ID: 01042303ECD7.D			Analyzed: 01/04/23 10:05		
Decachlorobiphenyl	40.000	115	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0199-07 (Solid)			Lab File ID: 01042307ECD7.D			Analyzed: 01/04/23 11:29		
Decachlorobiphenyl	7.8788	135	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.8788	96.7	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.8788	112	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.8788	95.1	44 - 120	5.705	5.712333	-0.0073	N/A	
SLA0094-CCV1 (Solid)			Lab File ID: 01042320ECD7.D			Analyzed: 01/04/23 16:03		
Decachlorobiphenyl	40.000	104	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	90.8	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	93.0	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0094-CCV2 (Solid)			Lab File ID: 01042321ECD7.D			Analyzed: 01/04/23 16:25		
Decachlorobiphenyl	40.000	109	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.709	5.712333	-0.0033	N/A	
SLA0094-CCV3 (Solid)			Lab File ID: 01042338ECD7.D			Analyzed: 01/04/23 22:23		
Decachlorobiphenyl	40.000	110	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	98.5	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	96.5	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0094-CCV4 (Solid)			Lab File ID: 01042339ECD7.D			Analyzed: 01/04/23 22:44		
Decachlorobiphenyl	40.000	118	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	101	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	99.8	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0094-CCV5 (Solid)			Lab File ID: 01042350ECD7.D			Analyzed: 01/05/23 02:37		
Decachlorobiphenyl	40.000	110	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	90.5	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0094-CCV6 (Solid)			Lab File ID: 01042351ECD7.D			Analyzed: 01/05/23 02:58		
Decachlorobiphenyl	40.000	116	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.706	5.712333	-0.0063	N/A	
22L0199-24 (Solid)			Lab File ID: 01042352ECD7.D			Analyzed: 01/05/23 03:19		
Decachlorobiphenyl	7.9805	106	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9805	80.4	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9805	97.6	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9805	85.8	44 - 120	5.703	5.712333	-0.0093	N/A	
SLA0094-CCV7 (Solid)			Lab File ID: 01042357ECD7.D			Analyzed: 01/05/23 05:05		
Decachlorobiphenyl	40.000	106	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	92.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	99.0	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.0	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0094-CCV8 (Solid)			Lab File ID: 01042358ECD7.D			Analyzed: 01/05/23 05:26		
Decachlorobiphenyl	40.000	111	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	99.8	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0094	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0094-CCV9 (Solid)			Lab File ID: 01042375ECD7.D			Analyzed: 01/05/23 11:25		
Decachlorobiphenyl	40.000	108	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	93.3	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	92.0	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0094-CCVA (Solid)			Lab File ID: 01042376ECD7.D			Analyzed: 01/05/23 11:46		
Decachlorobiphenyl	40.000	121	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0096-CCV3 (Solid)				Lab File ID: 01052331ECD7.D			Analyzed: 01/05/23 22:56	
Decachlorobiphenyl	40.000	108	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	93.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	94.8	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCV4 (Solid)				Lab File ID: 01052332ECD7.D			Analyzed: 01/05/23 23:17	
Decachlorobiphenyl	40.000	122	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCV5 (Solid)				Lab File ID: 01052349ECD7.D			Analyzed: 01/06/23 05:15	
Decachlorobiphenyl	40.000	107	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	96.3	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.0	80 - 120	5.709	5.712333	-0.0033	N/A	
SLA0096-CCV6 (Solid)				Lab File ID: 01052350ECD7.D			Analyzed: 01/06/23 05:36	
Decachlorobiphenyl	40.000	112	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	97.3	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.709	5.712333	-0.0033	N/A	
SLA0096-CCV7 (Solid)				Lab File ID: 01052361ECD7.D			Analyzed: 01/06/23 09:28	
Decachlorobiphenyl	40.000	109	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	91.5	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	95.3	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCV8 (Solid)				Lab File ID: 01052362ECD7.D			Analyzed: 01/06/23 09:49	
Decachlorobiphenyl	40.000	113	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-40 (Solid)			Lab File ID: 01052369ECD7.D			Analyzed: 01/06/23 12:16		
Decachlorobiphenyl	7.9792	107	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9792	71.0	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9792	99.8	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9792	79.0	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0199-41 (Solid)			Lab File ID: 01052370ECD7.D			Analyzed: 01/06/23 12:37		
Decachlorobiphenyl	7.9977	117	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9977	80.4	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9977	98.9	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9977	83.0	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0199-42 (Solid)			Lab File ID: 01052371ECD7.D			Analyzed: 01/06/23 12:58		
Decachlorobiphenyl	7.9823	121	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9823	89.2	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9823	109	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9823	90.9	44 - 120	5.704	5.712333	-0.0083	N/A	
SLA0096-CCV9 (Solid)			Lab File ID: 01052372ECD7.D			Analyzed: 01/06/23 13:19		
Decachlorobiphenyl	40.000	117	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	96.8	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	98.3	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	94.0	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0096-CCVA (Solid)			Lab File ID: 01052373ECD7.D			Analyzed: 01/06/23 13:40		
Decachlorobiphenyl	40.000	124	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-25 (Solid)			Lab File ID: 01052374ECD7.D			Analyzed: 01/06/23 14:02		
Decachlorobiphenyl	7.9830	101	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9830	69.7	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9830	91.4	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9830	81.6	44 - 120	5.703	5.712333	-0.0093	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-26 (Solid)			Lab File ID: 01052375ECD7.D			Analyzed: 01/06/23 14:23		
Decachlorobiphenyl	7.9817	92.7	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9817	62.5	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9817	86.9	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9817	72.3	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0199-27 (Solid)			Lab File ID: 01052376ECD7.D			Analyzed: 01/06/23 14:44		
Decachlorobiphenyl	7.9882	91.8	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9882	62.9	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9882	85.4	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9882	70.1	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0199-28 (Solid)			Lab File ID: 01052377ECD7.D			Analyzed: 01/06/23 15:05		
Decachlorobiphenyl	7.9980	94.8	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9980	59.9	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9980	87.6	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9980	71.5	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0199-29 (Solid)			Lab File ID: 01052378ECD7.D			Analyzed: 01/06/23 15:26		
Decachlorobiphenyl	7.9631	104	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9631	64.2	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9631	95.9	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9631	73.4	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0199-30 (Solid)			Lab File ID: 01052379ECD7.D			Analyzed: 01/06/23 15:47		
Decachlorobiphenyl	8.0013	131	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	8.0013	87.1	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	8.0013	121	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	8.0013	88.2	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0199-33 (Solid)			Lab File ID: 01052380ECD7.D			Analyzed: 01/06/23 16:08		
Decachlorobiphenyl	7.9980	102	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9980	81.2	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9980	97.7	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9980	85.6	44 - 120	5.705	5.712333	-0.0073	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-34 (Solid)			Lab File ID: 01052381ECD7.D			Analyzed: 01/06/23 16:29		
Decachlorobiphenyl	7.9710	103	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	7.9710	85.1	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9710	103	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9710	83.9	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0199-35 (Solid)			Lab File ID: 01052382ECD7.D			Analyzed: 01/06/23 16:50		
Decachlorobiphenyl	7.9936	97.7	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9936	69.6	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9936	91.8	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9936	76.2	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0199-36 (Solid)			Lab File ID: 01052383ECD7.D			Analyzed: 01/06/23 17:11		
Decachlorobiphenyl	7.9777	100	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9777	80.0	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9777	95.3	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9777	85.5	44 - 120	5.703	5.712333	-0.0093	N/A	
SLA0096-CCVB (Solid)			Lab File ID: 01052384ECD7.D			Analyzed: 01/06/23 17:32		
Decachlorobiphenyl	40.000	110	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	90.8	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCVC (Solid)			Lab File ID: 01052385ECD7.D			Analyzed: 01/06/23 17:53		
Decachlorobiphenyl	40.000	117	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	101	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	105	80 - 120	5.708	5.712333	-0.0043	N/A	
22L0199-37 (Solid)			Lab File ID: 01052386ECD7.D			Analyzed: 01/06/23 18:15		
Decachlorobiphenyl	7.9791	98.9	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9791	74.0	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9791	91.7	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9791	79.5	44 - 120	5.703	5.712333	-0.0093	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0199-38 (Solid)			Lab File ID: 01052387ECD7.D			Analyzed: 01/06/23 18:36		
Decachlorobiphenyl	7.9876	95.8	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9876	67.8	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9876	90.5	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9876	75.9	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0199-39 (Solid)			Lab File ID: 01052388ECD7.D			Analyzed: 01/06/23 18:57		
Decachlorobiphenyl	7.9854	94.6	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9854	65.3	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9854	88.2	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9854	74.5	44 - 120	5.701	5.712333	-0.0113	N/A	
SLA0096-CCVD (Solid)			Lab File ID: 01052392ECD7.D			Analyzed: 01/06/23 20:21		
Decachlorobiphenyl	40.000	112	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	91.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	93.3	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCVE (Solid)			Lab File ID: 01052393ECD7.D			Analyzed: 01/06/23 20:42		
Decachlorobiphenyl	40.000	118	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.5	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.709	5.712333	-0.0033	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0048	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SKL0048-SCV1)		(Water)	Lab File ID: 12032222ECD7.D				Analyzed: 12/03/22 22:13		
1-Bromo-2-Nitrobenzene	483506	3.518	457669	3.516	106	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	892033	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270882	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	432562	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV2)		(Water)	Lab File ID: 12032223ECD7.D				Analyzed: 12/03/22 22:34		
1-Bromo-2-Nitrobenzene	480791	3.515	457669	3.516	105	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	896515	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270117	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	422729	15.023	387892	15.021	109	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV3)		(Water)	Lab File ID: 12032224ECD7.D				Analyzed: 12/03/22 22:55		
1-Bromo-2-Nitrobenzene	484977	3.515	457669	3.516	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	915518	14.281	837264	14.278	109	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	272055	3.955	254712	3.955	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	426674	15.023	387892	15.021	110	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV4)		(Water)	Lab File ID: 12032225ECD7.D				Analyzed: 12/03/22 23:17		
1-Bromo-2-Nitrobenzene	484642	3.516	457669	3.516	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	917405	14.28	837264	14.278	110	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270782	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	431238	15.024	387892	15.021	111	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV5)		(Water)	Lab File ID: 12032226ECD7.D				Analyzed: 12/03/22 23:38		
1-Bromo-2-Nitrobenzene	482097	3.517	457669	3.516	105	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	913775	14.28	837264	14.278	109	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	268757	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	434790	15.024	387892	15.021	112	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV6)		(Water)	Lab File ID: 12032227ECD7.D				Analyzed: 12/03/22 23:59		
1-Bromo-2-Nitrobenzene	483276	3.514	457669	3.516	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	920878	14.281	837264	14.278	110	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270175	3.953	254712	3.955	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	435731	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0370
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC787H (22L0199-43)		(Solid)	Lab File ID: 12292237ECD7.D				Analyzed: 12/29/22 21:34		
1-Bromo-2-Nitrobenzene	413913	3.514	392048	3.513	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	409418	14.258	892332	14.277	46	50 - 200	-0.019	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	267545	3.951	264057	3.951	101	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	292941	15.005	450147	15.016	65	50 - 200	-0.011	+/-0.50	
Matrix Spike Dup (BKL0401-MSD1)		(Solid)	Lab File ID: 12292240ECD7.D				Analyzed: 12/29/22 22:37		
1-Bromo-2-Nitrobenzene	496379	3.514	278072	3.512	179	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	897086	14.269	674265	14.274	133	50 - 200	-0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	338801	3.951	188504	3.95	180	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	477712	15.01	329281	15.013	145	50 - 200	-0.003	+/-0.50	
LDW22-SC762A (22L0199-01)		(Solid)	Lab File ID: 12292241ECD7.D				Analyzed: 12/29/22 22:58		
1-Bromo-2-Nitrobenzene	441776	3.514	392048	3.513	113	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	419742	14.26	892332	14.277	47	50 - 200	-0.017	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	281432	3.951	264057	3.951	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	302275	15.005	450147	15.016	67	50 - 200	-0.011	+/-0.50	
LDW22-SC762B (22L0199-02)		(Solid)	Lab File ID: 12292242ECD7.D				Analyzed: 12/29/22 23:20		
1-Bromo-2-Nitrobenzene	459137	3.513	392048	3.513	117	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	578614	14.261	892332	14.277	65	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	303731	3.951	264057	3.951	115	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	382471	15.007	450147	15.016	85	50 - 200	-0.009	+/-0.50	
LDW22-SC762C (22L0199-03)		(Solid)	Lab File ID: 12292243ECD7.D				Analyzed: 12/29/22 23:41		
1-Bromo-2-Nitrobenzene	446888	3.513	392048	3.513	114	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	571529	14.261	892332	14.277	64	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	293004	3.95	264057	3.951	111	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	378946	15.007	450147	15.016	84	50 - 200	-0.009	+/-0.50	
LDW22-SC762I (22L0199-09)		(Solid)	Lab File ID: 12292248ECD7.D				Analyzed: 12/30/22 01:26		
1-Bromo-2-Nitrobenzene	421353	3.512	392048	3.513	107	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	419078	14.258	892332	14.277	47	50 - 200	-0.019	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	278748	3.95	264057	3.951	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	293577	15.006	450147	15.016	65	50 - 200	-0.010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0370
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-IT789H (22L0199-13)		(Solid)		Lab File ID: 12292249ECD7.D				Analyzed: 12/30/22 01:47	
1-Bromo-2-Nitrobenzene	454281	3.514	392048	3.513	116	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	455891	14.266	892332	14.277	51	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	309205	3.952	264057	3.951	117	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	238509	15.009	450147	15.016	53	50 - 200	-0.007	+/-0.50	
LDW22-IT789I-FD (22L0199-15)		(Solid)		Lab File ID: 12292250ECD7.D				Analyzed: 12/30/22 02:08	
1-Bromo-2-Nitrobenzene	481277	3.513	392048	3.513	123	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	869392	14.269	892332	14.277	97	50 - 200	-0.008	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	327138	3.952	264057	3.951	124	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	413279	15.011	450147	15.016	92	50 - 200	-0.005	+/-0.50	

Analytical Resources, LLC
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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0377	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0377-ICV1)		(Solid)	Lab File ID: 12272202ECD7.D				Analyzed: 12/27/22 17:00		
1-Bromo-2-Nitrobenzene	379730	3.512	274362	3.513	138	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	689998	14.276	587341	14.273	117	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	242664	3.949	176546	3.951	137	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	355181	15.016	295915	15.013	120	50 - 200	0.003	+/-0.50	
Initial Cal Check (SKL0377-ICV2)		(Solid)	Lab File ID: 12272203ECD7.D				Analyzed: 12/27/22 17:21		
1-Bromo-2-Nitrobenzene	274362	3.513	274362	3.513	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	587341	14.273	587341	14.273	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	176546	3.951	176546	3.951	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	295915	15.013	295915	15.013	100	50 - 200	0.000	+/-0.50	
Blank (BKL0404-BLK1)		(Solid)	Lab File ID: 12272209ECD7.D				Analyzed: 12/27/22 19:28		
1-Bromo-2-Nitrobenzene	470337	3.514	274362	3.513	171	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	914378	14.271	587341	14.273	156	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	303203	3.952	176546	3.951	172	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	448612	15.014	295915	15.013	152	50 - 200	0.001	+/-0.50	
LCS (BKL0404-BS1)		(Solid)	Lab File ID: 12272210ECD7.D				Analyzed: 12/27/22 19:49		
1-Bromo-2-Nitrobenzene	479528	3.512	274362	3.513	175	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	950192	14.271	587341	14.273	162	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	309049	3.95	176546	3.951	175	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	454582	15.013	295915	15.013	154	50 - 200	0.000	+/-0.50	
LCS Dup (BKL0404-BSD1)		(Solid)	Lab File ID: 12272211ECD7.D				Analyzed: 12/27/22 20:10		
1-Bromo-2-Nitrobenzene	486050	3.514	274362	3.513	177	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	978353	14.272	587341	14.273	167	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	313650	3.952	176546	3.951	178	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	462800	15.013	295915	15.013	156	50 - 200	0.000	+/-0.50	
Reference (BKL0404-SRM1)		(Solid)	Lab File ID: 12272212ECD7.D				Analyzed: 12/27/22 20:31		
1-Bromo-2-Nitrobenzene	482578	3.513	274362	3.513	176	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	730568	14.263	587341	14.273	124	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301935	3.952	176546	3.951	171	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	407778	15.009	295915	15.013	138	50 - 200	-0.004	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0377
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (BKL0404-MS1)		(Solid)	Lab File ID: 12272213ECD7.D				Analyzed: 12/27/22 20:52		
1-Bromo-2-Nitrobenzene	452648	3.515	274362	3.513	165	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	748119	14.266	587341	14.273	127	50 - 200	-0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	283410	3.952	176546	3.951	161	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	410395	15.011	295915	15.013	139	50 - 200	-0.002	+/-0.50	
Matrix Spike Dup (BKL0404-MSD1)		(Solid)	Lab File ID: 12272214ECD7.D				Analyzed: 12/27/22 21:13		
1-Bromo-2-Nitrobenzene	482039	3.513	274362	3.513	176	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	858165	14.266	587341	14.273	146	50 - 200	-0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	304541	3.95	176546	3.951	172	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	443270	15.01	295915	15.013	150	50 - 200	-0.003	+/-0.50	
LDW22-SC787K (22L0199-46)		(Solid)	Lab File ID: 12272222ECD7.D				Analyzed: 12/28/22 00:02		
1-Bromo-2-Nitrobenzene	455072	3.513	274362	3.513	166	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	574717	14.266	587341	14.273	98	50 - 200	-0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	304695	3.951	176546	3.951	173	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	348897	15.01	295915	15.013	118	50 - 200	-0.003	+/-0.50	
LDW22-SC787L (22L0199-47)		(Solid)	Lab File ID: 12272223ECD7.D				Analyzed: 12/28/22 00:23		
1-Bromo-2-Nitrobenzene	463222	3.512	274362	3.513	169	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	559571	14.262	587341	14.273	95	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	296626	3.95	176546	3.951	168	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	356970	15.008	295915	15.013	121	50 - 200	-0.005	+/-0.50	
LDW22-SC761A (22L0199-48)		(Solid)	Lab File ID: 12272224ECD7.D				Analyzed: 12/28/22 00:45		
1-Bromo-2-Nitrobenzene	453997	3.512	274362	3.513	165	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	434606	14.258	587341	14.273	74	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	291233	3.949	176546	3.951	165	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	312512	15.007	295915	15.013	106	50 - 200	-0.006	+/-0.50	
LDW22-SC761E (22L0199-53)		(Solid)	Lab File ID: 12272231ECD7.D				Analyzed: 12/28/22 03:12		
1-Bromo-2-Nitrobenzene	445832	3.515	274362	3.513	162	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	528452	14.262	587341	14.273	90	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	287924	3.953	176546	3.951	163	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	347405	15.007	295915	15.013	117	50 - 200	-0.006	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0377
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC761G (22L0199-55)		(Solid)	Lab File ID: 12272233ECD7.D				Analyzed: 12/28/22 03:55		
1-Bromo-2-Nitrobenzene	446279	3.513	274362	3.513	163	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	469276	14.259	587341	14.273	80	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	284958	3.951	176546	3.951	161	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	329488	15.008	295915	15.013	111	50 - 200	-0.005	+/-0.50	
LDW22-SC761H (22L0199-56)		(Solid)	Lab File ID: 12272234ECD7.D				Analyzed: 12/28/22 04:16		
1-Bromo-2-Nitrobenzene	414150	3.513	274362	3.513	151	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	428344	14.259	587341	14.273	73	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	268321	3.95	176546	3.951	152	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	311556	15.008	295915	15.013	105	50 - 200	-0.005	+/-0.50	
LDW22-SC761I (22L0199-57)		(Solid)	Lab File ID: 12272235ECD7.D				Analyzed: 12/28/22 04:37		
1-Bromo-2-Nitrobenzene	445368	3.515	274362	3.513	162	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	481919	14.26	587341	14.273	82	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	287415	3.953	176546	3.951	163	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	341966	15.007	295915	15.013	116	50 - 200	-0.006	+/-0.50	
LDW22-SC761J (22L0199-58)		(Solid)	Lab File ID: 12272236ECD7.D				Analyzed: 12/28/22 04:58		
1-Bromo-2-Nitrobenzene	445140	3.515	274362	3.513	162	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	609211	14.263	587341	14.273	104	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	294762	3.953	176546	3.951	167	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	382377	15.01	295915	15.013	129	50 - 200	-0.003	+/-0.50	
LDW22-SC761K (22L0199-59)		(Solid)	Lab File ID: 12272237ECD7.D				Analyzed: 12/28/22 05:19		
1-Bromo-2-Nitrobenzene	461138	3.516	274362	3.513	168	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	672470	14.264	587341	14.273	114	50 - 200	-0.009	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	297255	3.953	176546	3.951	168	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	411799	15.01	295915	15.013	139	50 - 200	-0.003	+/-0.50	
LDW22-SC761L (22L0199-60)		(Solid)	Lab File ID: 12272238ECD7.D				Analyzed: 12/28/22 05:40		
1-Bromo-2-Nitrobenzene	452454	3.514	274362	3.513	165	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	731332	14.266	587341	14.273	125	50 - 200	-0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	297799	3.952	176546	3.951	169	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	420417	15.011	295915	15.013	142	50 - 200	-0.002	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0377
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (BKL0401-BLK1)		(Solid)	Lab File ID: 12272241ECD7.D				Analyzed: 12/28/22 06:43		
1-Bromo-2-Nitrobenzene	486899	3.513	274362	3.513	177	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	921497	14.273	587341	14.273	157	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	323402	3.952	176546	3.951	183	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	471822	15.015	295915	15.013	159	50 - 200	0.002	+/-0.50	
LCS (BKL0401-BS1)		(Solid)	Lab File ID: 12272242ECD7.D				Analyzed: 12/28/22 07:05		
1-Bromo-2-Nitrobenzene	480656	3.514	274362	3.513	175	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	963889	14.273	587341	14.273	164	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	318480	3.953	176546	3.951	180	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	478140	15.016	295915	15.013	162	50 - 200	0.003	+/-0.50	
LCS Dup (BKL0401-BSD1)		(Solid)	Lab File ID: 12272243ECD7.D				Analyzed: 12/28/22 07:26		
1-Bromo-2-Nitrobenzene	490305	3.515	274362	3.513	179	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	994239	14.274	587341	14.273	169	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	325234	3.953	176546	3.951	184	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	489731	15.015	295915	15.013	165	50 - 200	0.002	+/-0.50	
Reference (BKL0401-SRM1)		(Solid)	Lab File ID: 12272244ECD7.D				Analyzed: 12/28/22 07:47		
1-Bromo-2-Nitrobenzene	506987	3.515	274362	3.513	185	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	745033	14.263	587341	14.273	127	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	321782	3.952	176546	3.951	182	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	432204	15.009	295915	15.013	146	50 - 200	-0.004	+/-0.50	
Matrix Spike (BKL0401-MS1)		(Solid)	Lab File ID: 12272245ECD7.D				Analyzed: 12/28/22 08:08		
1-Bromo-2-Nitrobenzene	492161	3.513	274362	3.513	179	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	927541	14.269	587341	14.273	158	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	319357	3.951	176546	3.951	181	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	479128	15.013	295915	15.013	162	50 - 200	0.000	+/-0.50	
LDW22-SC762E (22L0199-05)		(Solid)	Lab File ID: 12272253ECD7.D				Analyzed: 12/28/22 10:57		
1-Bromo-2-Nitrobenzene	466184	3.513	274362	3.513	170	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	478549	14.261	587341	14.273	81	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	295556	3.951	176546	3.951	167	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	328683	15.008	295915	15.013	111	50 - 200	-0.005	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0377	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC762F (22L0199-06)		(Solid)		Lab File ID: 12272254ECD7.D			Analyzed: 12/28/22 11:18		
1-Bromo-2-Nitrobenzene	453199	3.514	274362	3.513	165	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	560319	14.262	587341	14.273	95	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	290857	3.952	176546	3.951	165	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	363220	15.008	295915	15.013	123	50 - 200	-0.005	+/-0.50	
LDW22-SC762H (22L0199-08)		(Solid)		Lab File ID: 12272256ECD7.D			Analyzed: 12/28/22 12:00		
1-Bromo-2-Nitrobenzene	474836	3.513	274362	3.513	173	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	470028	14.26	587341	14.273	80	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	298917	3.951	176546	3.951	169	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	324796	15.008	295915	15.013	110	50 - 200	-0.005	+/-0.50	
LDW22-SC762J (22L0199-10)		(Solid)		Lab File ID: 12272258ECD7.D			Analyzed: 12/28/22 12:42		
1-Bromo-2-Nitrobenzene	436483	3.513	274362	3.513	159	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	433355	14.259	587341	14.273	74	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	282269	3.95	176546	3.951	160	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	308250	15.008	295915	15.013	104	50 - 200	-0.005	+/-0.50	
LDW22-IT789F (22L0199-11)		(Solid)		Lab File ID: 12272261ECD7.D			Analyzed: 12/28/22 13:45		
1-Bromo-2-Nitrobenzene	489868	3.513	274362	3.513	179	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	804792	14.265	587341	14.273	137	50 - 200	-0.008	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	330271	3.951	176546	3.951	187	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	435349	15.011	295915	15.013	147	50 - 200	-0.002	+/-0.50	
LDW22-IT789G (22L0199-12)		(Solid)		Lab File ID: 12272262ECD7.D			Analyzed: 12/28/22 14:06		
1-Bromo-2-Nitrobenzene	478367	3.514	274362	3.513	174	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	845318	14.265	587341	14.273	144	50 - 200	-0.008	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	318868	3.952	176546	3.951	181	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	446992	15.011	295915	15.013	151	50 - 200	-0.002	+/-0.50	
LDW22-IT789I (22L0199-14)		(Solid)		Lab File ID: 12272264ECD7.D			Analyzed: 12/28/22 14:49		
1-Bromo-2-Nitrobenzene	479709	3.514	274362	3.513	175	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	890080	14.266	587341	14.273	152	50 - 200	-0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	320370	3.952	176546	3.951	181	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	442339	15.011	295915	15.013	149	50 - 200	-0.002	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0377

SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-IT789J (22L0199-16)		(Solid)	Lab File ID: 12272266ECD7.D				Analyzed: 12/28/22 15:31		
1-Bromo-2-Nitrobenzene	470702	3.514	274362	3.513	172	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	905146	14.269	587341	14.273	154	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	310727	3.951	176546	3.951	176	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	446324	15.013	295915	15.013	151	50 - 200	0.000	+/-0.50	
LDW22-IT789K (22L0199-17)		(Solid)	Lab File ID: 12272267ECD7.D				Analyzed: 12/28/22 15:52		
1-Bromo-2-Nitrobenzene	464959	3.514	274362	3.513	169	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	932701	14.272	587341	14.273	159	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	308103	3.952	176546	3.951	175	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	451604	15.015	295915	15.013	153	50 - 200	0.002	+/-0.50	
LDW22-IT789L (22L0199-18)		(Solid)	Lab File ID: 12272268ECD7.D				Analyzed: 12/28/22 16:13		
1-Bromo-2-Nitrobenzene	504407	3.513	274362	3.513	184	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1058965	14.273	587341	14.273	180	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	338254	3.951	176546	3.951	192	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	495854	15.014	295915	15.013	168	50 - 200	0.001	+/-0.50	
LDW22-IT790I (22L0199-19)		(Solid)	Lab File ID: 12272269ECD7.D				Analyzed: 12/28/22 16:34		
1-Bromo-2-Nitrobenzene	465429	3.514	274362	3.513	170	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1003401	14.273	587341	14.273	171	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	316574	3.951	176546	3.951	179	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	473552	15.015	295915	15.013	160	50 - 200	0.002	+/-0.50	
LDW22-IT790J (22L0199-20)		(Solid)	Lab File ID: 12272270ECD7.D				Analyzed: 12/28/22 16:55		
1-Bromo-2-Nitrobenzene	469650	3.514	274362	3.513	171	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1015444	14.272	587341	14.273	173	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	316142	3.951	176546	3.951	179	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	472004	15.015	295915	15.013	160	50 - 200	0.002	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0035
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0035-ICV1)		(Water)	Lab File ID: 12302202ECD7.D				Analyzed: 12/30/22 11:41		
1-Bromo-2-Nitrobenzene	362436	3.513	256793	3.513	141	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	860018	14.278	662804	14.274	130	50 - 200	0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	237132	3.95	167456	3.951	142	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	411479	15.016	319446	15.014	129	50 - 200	0.002	+/-0.50	
Initial Cal Check (SLA0035-ICV2)		(Water)	Lab File ID: 12302203ECD7.D				Analyzed: 12/30/22 12:02		
1-Bromo-2-Nitrobenzene	256793	3.513	256793	3.513	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	662804	14.274	662804	14.274	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	167456	3.951	167456	3.951	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	319446	15.014	319446	15.014	100	50 - 200	0.000	+/-0.50	
Blank (BKL0402-BLK1)		(Solid)	Lab File ID: 12302210ECD7.D				Analyzed: 12/30/22 14:30		
1-Bromo-2-Nitrobenzene	484506	3.511	256793	3.513	189	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	1139609	14.273	662804	14.274	172	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	322920	3.95	167456	3.951	193	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	565127	15.014	319446	15.014	177	50 - 200	0.000	+/-0.50	
LCS (BKL0402-BS1)		(Solid)	Lab File ID: 12302211ECD7.D				Analyzed: 12/30/22 14:51		
1-Bromo-2-Nitrobenzene	509048	3.512	256793	3.513	198	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	1259283	14.271	662804	14.274	190	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	340559	3.95	167456	3.951	203	50 - 200	-0.001	+/-0.50	*
Hexabromobiphenyl [2C]	594913	15.013	319446	15.014	186	50 - 200	-0.001	+/-0.50	
LCS Dup (BKL0402-BSD1)		(Solid)	Lab File ID: 12302212ECD7.D				Analyzed: 12/30/22 15:12		
1-Bromo-2-Nitrobenzene	515889	3.513	256793	3.513	201	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl	1257790	14.271	662804	14.274	190	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	345762	3.951	167456	3.951	206	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl [2C]	597747	15.012	319446	15.014	187	50 - 200	-0.002	+/-0.50	
Reference (BKL0402-SRM1)		(Solid)	Lab File ID: 12302213ECD7.D				Analyzed: 12/30/22 15:33		
1-Bromo-2-Nitrobenzene	514184	3.513	256793	3.513	200	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl	830404	14.26	662804	14.274	125	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	321658	3.951	167456	3.951	192	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	483504	15.008	319446	15.014	151	50 - 200	-0.006	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0035
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (BKL0402-MS1)		(Solid)	Lab File ID: 12302214ECD7.D					Analyzed: 12/30/22 15:54	
1-Bromo-2-Nitrobenzene	517550	3.513	256793	3.513	202	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl	1210214	14.272	662804	14.274	183	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	334026	3.951	167456	3.951	199	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	584886	15.014	319446	15.014	183	50 - 200	0.000	+/-0.50	
Matrix Spike Dup (BKL0402-MSD1)		(Solid)	Lab File ID: 12302215ECD7.D					Analyzed: 12/30/22 16:15	
1-Bromo-2-Nitrobenzene	498930	3.515	256793	3.513	194	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	1232268	14.271	662804	14.274	186	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	334096	3.954	167456	3.951	200	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl [2C]	577091	15.013	319446	15.014	181	50 - 200	-0.001	+/-0.50	
LDW22-IT790K (22L0199-21)		(Solid)	Lab File ID: 12302216ECD7.D					Analyzed: 12/30/22 16:36	
1-Bromo-2-Nitrobenzene	527291	3.513	256793	3.513	205	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl	1257785	14.272	662804	14.274	190	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	333477	3.95	167456	3.951	199	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	587432	15.012	319446	15.014	184	50 - 200	-0.002	+/-0.50	
LDW22-IT790L (22L0199-22)		(Solid)	Lab File ID: 12302217ECD7.D					Analyzed: 12/30/22 16:58	
1-Bromo-2-Nitrobenzene	509626	3.514	256793	3.513	198	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	972852	14.267	662804	14.274	147	50 - 200	-0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	319444	3.951	167456	3.951	191	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	525943	15.011	319446	15.014	165	50 - 200	-0.003	+/-0.50	
LDW22-IT790M (22L0199-23)		(Solid)	Lab File ID: 12302218ECD7.D					Analyzed: 12/30/22 17:19	
1-Bromo-2-Nitrobenzene	468057	3.512	256793	3.513	182	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	838308	14.263	662804	14.274	126	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	319440	3.95	167456	3.951	191	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	513359	15.01	319446	15.014	161	50 - 200	-0.004	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0071
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0071-ICV1)		(Solid)	Lab File ID: 12312202ECD7.D				Analyzed: 12/31/22 10:31		
1-Bromo-2-Nitrobenzene	344112	3.514	249010	3.514	138	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	676537	14.272	553454	14.272	122	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	228034	3.951	167297	3.952	136	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	342022	15.014	281315	15.015	122	50 - 200	-0.001	+/-0.50	
Initial Cal Check (SLA0071-ICV2)		(Solid)	Lab File ID: 12312203ECD7.D				Analyzed: 12/31/22 10:52		
1-Bromo-2-Nitrobenzene	249010	3.514	249010	3.514	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	553454	14.272	553454	14.272	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	167297	3.952	167297	3.952	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	281315	15.015	281315	15.015	100	50 - 200	0.000	+/-0.50	
Blank (BKL0488-BLK1)		(Solid)	Lab File ID: 12312204ECD7.D				Analyzed: 12/31/22 11:13		
1-Bromo-2-Nitrobenzene	481329	3.514	249010	3.514	193	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	956070	14.272	553454	14.272	173	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	323161	3.951	167297	3.952	193	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	491270	15.013	281315	15.015	175	50 - 200	-0.002	+/-0.50	
LCS (BKL0488-BS1)		(Solid)	Lab File ID: 12312205ECD7.D				Analyzed: 12/31/22 11:34		
1-Bromo-2-Nitrobenzene	514676	3.517	249010	3.514	207	50 - 200	0.003	+/-0.50	*
Hexabromobiphenyl	1059907	14.273	553454	14.272	192	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	345608	3.953	167297	3.952	207	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl [2C]	514689	15.013	281315	15.015	183	50 - 200	-0.002	+/-0.50	
LCS Dup (BKL0488-BSD1)		(Solid)	Lab File ID: 12312206ECD7.D				Analyzed: 12/31/22 11:55		
1-Bromo-2-Nitrobenzene	486403	3.515	249010	3.514	195	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1059096	14.272	553454	14.272	191	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	328526	3.953	167297	3.952	196	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	511836	15.014	281315	15.015	182	50 - 200	-0.001	+/-0.50	
Reference (BKL0488-SRM1)		(Solid)	Lab File ID: 12312207ECD7.D				Analyzed: 12/31/22 12:16		
1-Bromo-2-Nitrobenzene	522398	3.513	249010	3.514	210	50 - 200	-0.001	+/-0.50	*
Hexabromobiphenyl	779845	14.261	553454	14.272	141	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	336880	3.951	167297	3.952	201	50 - 200	-0.001	+/-0.50	*
Hexabromobiphenyl [2C]	460619	15.008	281315	15.015	164	50 - 200	-0.007	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0071
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (BKL0488-MS1)		(Solid)	Lab File ID: 12312208ECD7.D				Analyzed: 12/31/22 12:37		
1-Bromo-2-Nitrobenzene	463528	3.513	249010	3.514	186	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	483663	14.259	553454	14.272	87	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	294774	3.951	167297	3.952	176	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	343199	15.007	281315	15.015	122	50 - 200	-0.008	+/-0.50	
Matrix Spike Dup (BKL0488-MSD1)		(Solid)	Lab File ID: 12312209ECD7.D				Analyzed: 12/31/22 12:58		
1-Bromo-2-Nitrobenzene	457808	3.513	249010	3.514	184	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	476628	14.257	553454	14.272	86	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	292303	3.951	167297	3.952	175	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	343417	15.006	281315	15.015	122	50 - 200	-0.009	+/-0.50	
LDW22-SC758D (22L0199-63)		(Solid)	Lab File ID: 12312212ECD7.D				Analyzed: 12/31/22 14:02		
1-Bromo-2-Nitrobenzene	445703	3.514	249010	3.514	179	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	449524	14.258	553454	14.272	81	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	285989	3.951	167297	3.952	171	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	322447	15.007	281315	15.015	115	50 - 200	-0.008	+/-0.50	
LDW22-SC758E (22L0199-64)		(Solid)	Lab File ID: 12312213ECD7.D				Analyzed: 12/31/22 14:23		
1-Bromo-2-Nitrobenzene	456562	3.514	249010	3.514	183	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	466657	14.259	553454	14.272	84	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	291452	3.951	167297	3.952	174	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	335582	15.007	281315	15.015	119	50 - 200	-0.008	+/-0.50	
LDW22-SC758F (22L0199-65)		(Solid)	Lab File ID: 12312214ECD7.D				Analyzed: 12/31/22 14:44		
1-Bromo-2-Nitrobenzene	439425	3.513	249010	3.514	176	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	421327	14.258	553454	14.272	76	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	280289	3.95	167297	3.952	168	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	315378	15.005	281315	15.015	112	50 - 200	-0.010	+/-0.50	
LDW22-SC758G (22L0199-66)		(Solid)	Lab File ID: 12312215ECD7.D				Analyzed: 12/31/22 15:05		
1-Bromo-2-Nitrobenzene	437184	3.513	249010	3.514	176	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	470696	14.259	553454	14.272	85	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	285509	3.951	167297	3.952	171	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	346746	15.007	281315	15.015	123	50 - 200	-0.008	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0071
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC758H (22L0199-67)		(Solid)	Lab File ID: 12312216ECD7.D				Analyzed: 12/31/22 15:26		
1-Bromo-2-Nitrobenzene	441839	3.515	249010	3.514	177	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	431507	14.257	553454	14.272	78	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	283639	3.952	167297	3.952	170	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	327264	15.007	281315	15.015	116	50 - 200	-0.008	+/-0.50	
LDW22-SC758I (22L0199-68)		(Solid)	Lab File ID: 12312217ECD7.D				Analyzed: 12/31/22 15:47		
1-Bromo-2-Nitrobenzene	443189	3.514	249010	3.514	178	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	437260	14.259	553454	14.272	79	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	280619	3.952	167297	3.952	168	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	327654	15.005	281315	15.015	116	50 - 200	-0.010	+/-0.50	
LDW22-SC758J (22L0199-69)		(Solid)	Lab File ID: 12312218ECD7.D				Analyzed: 12/31/22 16:08		
1-Bromo-2-Nitrobenzene	445051	3.515	249010	3.514	179	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	485594	14.26	553454	14.272	88	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	292144	3.952	167297	3.952	175	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	359337	15.006	281315	15.015	128	50 - 200	-0.009	+/-0.50	
LDW22-SC758K (22L0199-70)		(Solid)	Lab File ID: 12312219ECD7.D				Analyzed: 12/31/22 16:29		
1-Bromo-2-Nitrobenzene	468794	3.513	249010	3.514	188	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	474721	14.258	553454	14.272	86	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301940	3.951	167297	3.952	180	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	352616	15.007	281315	15.015	125	50 - 200	-0.008	+/-0.50	
LDW22-SC762D (22L0199-04)		(Solid)	Lab File ID: 12312252ECD7.D				Analyzed: 01/01/23 04:04		
1-Bromo-2-Nitrobenzene	493213	3.516	249010	3.514	198	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	731579	14.262	553454	14.272	132	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	327615	3.953	167297	3.952	196	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	476713	15.008	281315	15.015	169	50 - 200	-0.007	+/-0.50	
LDW22-SC761B (22L0199-49)		(Solid)	Lab File ID: 12312253ECD7.D				Analyzed: 01/01/23 04:25		
1-Bromo-2-Nitrobenzene	486597	3.517	249010	3.514	195	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	714248	14.261	553454	14.272	129	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	330343	3.955	167297	3.952	197	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl [2C]	465554	15.007	281315	15.015	165	50 - 200	-0.008	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0071
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC761C (22L0199-50)		(Solid)	Lab File ID: 12312254ECD7.D					Analyzed: 01/01/23 04:46	
1-Bromo-2-Nitrobenzene	502079	3.516	249010	3.514	202	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl	714467	14.261	553454	14.272	129	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	335201	3.953	167297	3.952	200	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl [2C]	470676	15.009	281315	15.015	167	50 - 200	-0.006	+/-0.50	
LDW22-SC761D (22L0199-51)		(Solid)	Lab File ID: 12312255ECD7.D					Analyzed: 01/01/23 05:07	
1-Bromo-2-Nitrobenzene	499062	3.516	249010	3.514	200	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl	716886	14.262	553454	14.272	130	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	329306	3.953	167297	3.952	197	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	469131	15.007	281315	15.015	167	50 - 200	-0.008	+/-0.50	
LDW22-SC761D-FD (22L0199-52)		(Solid)	Lab File ID: 12312256ECD7.D					Analyzed: 01/01/23 05:29	
1-Bromo-2-Nitrobenzene	484459	3.517	249010	3.514	195	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	707616	14.262	553454	14.272	128	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	330096	3.955	167297	3.952	197	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl [2C]	465451	15.008	281315	15.015	165	50 - 200	-0.007	+/-0.50	
LDW22-SC761F (22L0199-54)		(Solid)	Lab File ID: 12312257ECD7.D					Analyzed: 01/01/23 05:50	
1-Bromo-2-Nitrobenzene	509283	3.515	249010	3.514	205	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl	796160	14.263	553454	14.272	144	50 - 200	-0.009	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	343609	3.953	167297	3.952	205	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl [2C]	505544	15.01	281315	15.015	180	50 - 200	-0.005	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0079-ICV1)		(Solid)	Lab File ID: 01032302ECD7.D				Analyzed: 01/03/23 07:15		
1-Bromo-2-Nitrobenzene	337001	3.514	259175	3.513	130	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	738202	14.273	638343	14.27	116	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	233904	3.95	180225	3.95	130	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	392020	15.014	337549	15.014	116	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLA0079-ICV2)		(Solid)	Lab File ID: 01032303ECD7.D				Analyzed: 01/03/23 07:36		
1-Bromo-2-Nitrobenzene	259175	3.513	259175	3.513	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	638343	14.27	638343	14.27	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	180225	3.95	180225	3.95	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	337549	15.014	337549	15.014	100	50 - 200	0.000	+/-0.50	
LDW22-SC758B (22L0199-61)		(Solid)	Lab File ID: 01032304ECD7.D				Analyzed: 01/03/23 09:20		
1-Bromo-2-Nitrobenzene	425090	3.525	259175	3.513	164	50 - 200	0.012	+/-0.50	
Hexabromobiphenyl	577160	14.272	638343	14.27	90	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	279700	3.944	180225	3.95	155	50 - 200	-0.006	+/-0.50	
Hexabromobiphenyl [2C]	388487	15.008	337549	15.014	115	50 - 200	-0.006	+/-0.50	
LDW22-SC758C (22L0199-62)		(Solid)	Lab File ID: 01032305ECD7.D				Analyzed: 01/03/23 09:41		
1-Bromo-2-Nitrobenzene	415091	3.514	259175	3.513	160	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	571258	14.264	638343	14.27	89	50 - 200	-0.006	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	278853	3.95	180225	3.95	155	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	383868	15.009	337549	15.014	114	50 - 200	-0.005	+/-0.50	
LDW22-SC802H (22L0199-31)		(Solid)	Lab File ID: 01032309ECD7.D				Analyzed: 01/03/23 11:06		
1-Bromo-2-Nitrobenzene	432669	3.514	259175	3.513	167	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	715617	14.265	638343	14.27	112	50 - 200	-0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	289807	3.952	180225	3.95	161	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	448272	15.01	337549	15.014	133	50 - 200	-0.004	+/-0.50	
LDW22-SC802I (22L0199-32)		(Solid)	Lab File ID: 01032310ECD7.D				Analyzed: 01/03/23 11:27		
1-Bromo-2-Nitrobenzene	444269	3.514	259175	3.513	171	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	700693	14.262	638343	14.27	110	50 - 200	-0.008	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	295410	3.951	180225	3.95	164	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	450294	15.009	337549	15.014	133	50 - 200	-0.005	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC787I (22L0199-44)		(Solid)		Lab File ID: 01032327ECD7.D				Analyzed: 01/03/23 17:25	
1-Bromo-2-Nitrobenzene	448272	3.514	259175	3.513	173	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	593807	14.262	638343	14.27	93	50 - 200	-0.008	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	297244	3.951	180225	3.95	165	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	394190	15.008	337549	15.014	117	50 - 200	-0.006	+/-0.50	
LDW22-SC787J (22L0199-45)		(Solid)		Lab File ID: 01032328ECD7.D				Analyzed: 01/03/23 17:46	
1-Bromo-2-Nitrobenzene	467573	3.514	259175	3.513	180	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	606146	14.261	638343	14.27	95	50 - 200	-0.009	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	303191	3.951	180225	3.95	168	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	401504	15.008	337549	15.014	119	50 - 200	-0.006	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0094	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0094-ICV1)		(Solid)	Lab File ID: 01042302ECD7.D				Analyzed: 01/04/23 09:44		
1-Bromo-2-Nitrobenzene	342409	3.514	247920	3.512	138	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	762680	14.278	626149	14.276	122	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	231515	3.951	167179	3.95	138	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	391032	15.015	313761	15.016	125	50 - 200	-0.001	+/-0.50	
Initial Cal Check (SLA0094-ICV2)		(Solid)	Lab File ID: 01042303ECD7.D				Analyzed: 01/04/23 10:05		
1-Bromo-2-Nitrobenzene	247920	3.512	247920	3.512	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	626149	14.276	626149	14.276	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	167179	3.95	167179	3.95	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	313761	15.016	313761	15.016	100	50 - 200	0.000	+/-0.50	
LDW22-SC762G (22L0199-07)		(Solid)	Lab File ID: 01042307ECD7.D				Analyzed: 01/04/23 11:29		
1-Bromo-2-Nitrobenzene	437368	3.513	342409	3.514	128	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	667355	14.265	626149	14.276	107	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	298882	3.95	167179	3.95	179	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	415190	15.01	313761	15.016	132	50 - 200	-0.006	+/-0.50	
LDW22-SC802A (22L0199-24)		(Solid)	Lab File ID: 01042352ECD7.D				Analyzed: 01/05/23 03:19		
1-Bromo-2-Nitrobenzene	492983	3.515	342409	3.514	144	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	505598	14.259	626149	14.276	81	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	320034	3.951	167179	3.95	191	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	373829	15.005	313761	15.016	119	50 - 200	-0.011	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC787E (22L0199-40)		(Solid)	Lab File ID: 01052369ECD7.D				Analyzed: 01/06/23 12:16		
1-Bromo-2-Nitrobenzene	437512	3.516	323732	3.513	135	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	428453	14.258	421716	14.273	102	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	289720	3.952	220879	3.951	131	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	327885	15.005	257757	15.014	127	50 - 200	-0.009	+/-0.50	
LDW22-SC787F (22L0199-41)		(Solid)	Lab File ID: 01052370ECD7.D				Analyzed: 01/06/23 12:37		
1-Bromo-2-Nitrobenzene	488640	3.515	323732	3.513	151	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	610961	14.262	421716	14.273	145	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	328387	3.952	220879	3.951	149	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	421166	15.008	257757	15.014	163	50 - 200	-0.006	+/-0.50	
LDW22-SC787G (22L0199-42)		(Solid)	Lab File ID: 01052371ECD7.D				Analyzed: 01/06/23 12:58		
1-Bromo-2-Nitrobenzene	449607	3.514	323732	3.513	139	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	601267	14.26	421716	14.273	143	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301877	3.95	220879	3.951	137	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	409545	15.008	257757	15.014	159	50 - 200	-0.006	+/-0.50	
LDW22-SC802B (22L0199-25)		(Solid)	Lab File ID: 01052374ECD7.D				Analyzed: 01/06/23 14:02		
1-Bromo-2-Nitrobenzene	462480	3.514	323732	3.513	143	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	466263	14.258	421716	14.273	111	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	287211	3.951	220879	3.951	130	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	348456	15.007	257757	15.014	135	50 - 200	-0.007	+/-0.50	
LDW22-SC802C (22L0199-26)		(Solid)	Lab File ID: 01052375ECD7.D				Analyzed: 01/06/23 14:23		
1-Bromo-2-Nitrobenzene	492153	3.514	323732	3.513	152	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	471321	14.258	421716	14.273	112	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	313807	3.95	220879	3.951	142	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	363683	15.005	257757	15.014	141	50 - 200	-0.009	+/-0.50	
LDW22-SC802D (22L0199-27)		(Solid)	Lab File ID: 01052376ECD7.D				Analyzed: 01/06/23 14:44		
1-Bromo-2-Nitrobenzene	464234	3.513	323732	3.513	143	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	448514	14.258	421716	14.273	106	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	300752	3.95	220879	3.951	136	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	348992	15.005	257757	15.014	135	50 - 200	-0.009	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0096
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC802E (22L0199-28)		(Solid)	Lab File ID: 01052377ECD7.D				Analyzed: 01/06/23 15:05		
1-Bromo-2-Nitrobenzene	461232	3.513	323732	3.513	142	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	421438	14.256	421716	14.273	100	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	289209	3.95	220879	3.951	131	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	328398	15.006	257757	15.014	127	50 - 200	-0.008	+/-0.50	
LDW22-SC802F (22L0199-29)		(Solid)	Lab File ID: 01052378ECD7.D				Analyzed: 01/06/23 15:26		
1-Bromo-2-Nitrobenzene	468412	3.514	323732	3.513	145	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	452125	14.257	421716	14.273	107	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	302943	3.95	220879	3.951	137	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	351283	15.005	257757	15.014	136	50 - 200	-0.009	+/-0.50	
LDW22-SC802G (22L0199-30)		(Solid)	Lab File ID: 01052379ECD7.D				Analyzed: 01/06/23 15:47		
1-Bromo-2-Nitrobenzene	456739	3.515	323732	3.513	141	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	614040	14.263	421716	14.273	146	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	311559	3.952	220879	3.951	141	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	407859	15.009	257757	15.014	158	50 - 200	-0.005	+/-0.50	
LDW22-SC802J (22L0199-33)		(Solid)	Lab File ID: 01052380ECD7.D				Analyzed: 01/06/23 16:08		
1-Bromo-2-Nitrobenzene	483159	3.516	323732	3.513	149	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	678345	14.262	421716	14.273	161	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	311306	3.952	220879	3.951	141	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	447981	15.009	257757	15.014	174	50 - 200	-0.005	+/-0.50	
LDW22-SC802K (22L0199-34)		(Solid)	Lab File ID: 01052381ECD7.D				Analyzed: 01/06/23 16:29		
1-Bromo-2-Nitrobenzene	495018	3.514	323732	3.513	153	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	833703	14.265	421716	14.273	198	50 - 200	-0.008	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	334822	3.951	220879	3.951	152	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	496989	15.009	257757	15.014	193	50 - 200	-0.005	+/-0.50	
LDW22-SC802C-FD (22L0199-35)		(Solid)	Lab File ID: 01052382ECD7.D				Analyzed: 01/06/23 16:50		
1-Bromo-2-Nitrobenzene	461888	3.515	323732	3.513	143	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	463747	14.258	421716	14.273	110	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301781	3.951	220879	3.951	137	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	358148	15.004	257757	15.014	139	50 - 200	-0.010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC787A (22L0199-36)		(Solid)	Lab File ID: 01052383ECD7.D				Analyzed: 01/06/23 17:11		
1-Bromo-2-Nitrobenzene	445325	3.515	323732	3.513	138	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	514838	14.259	421716	14.273	122	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	297306	3.952	220879	3.951	135	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	371554	15.005	257757	15.014	144	50 - 200	-0.009	+/-0.50	
LDW22-SC787B (22L0199-37)		(Solid)	Lab File ID: 01052386ECD7.D				Analyzed: 01/06/23 18:15		
1-Bromo-2-Nitrobenzene	462018	3.514	323732	3.513	143	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	491093	14.258	421716	14.273	116	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	303424	3.951	220879	3.951	137	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	366886	15.005	257757	15.014	142	50 - 200	-0.009	+/-0.50	
LDW22-SC787C (22L0199-38)		(Solid)	Lab File ID: 01052387ECD7.D				Analyzed: 01/06/23 18:36		
1-Bromo-2-Nitrobenzene	482495	3.514	323732	3.513	149	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	490033	14.258	421716	14.273	116	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	313107	3.951	220879	3.951	142	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	367073	15.005	257757	15.014	142	50 - 200	-0.009	+/-0.50	
LDW22-SC787D (22L0199-39)		(Solid)	Lab File ID: 01052388ECD7.D				Analyzed: 01/06/23 18:57		
1-Bromo-2-Nitrobenzene	466110	3.513	323732	3.513	144	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	465378	14.258	421716	14.273	110	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	296847	3.95	220879	3.951	134	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	358943	15.004	257757	15.014	139	50 - 200	-0.010	+/-0.50	

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-01	File ID:	12292241ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/29/22 22:58
Solids:	54.93	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0401	Sequence:	SKL0370		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.41	8.427	0.017	190741.3	145	2.
	* 2	8.311	8.326	0.015	93292.25	148	
Aroclor 1254	1	9.298	9.318	0.02	201109.8	138	11.6
	* 2	9.448	9.466	0.018	168259	155	
Aroclor 1260	1	11.043	11.0625	0.0195	122515.6	119	3.3
	* 2	11.652	11.66983	0.0178	131939.8	123	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-02	File ID:	12292242ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/29/22 23:20
Solids:	56.77	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0401	Sequence:	SKL0370		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.412	8.427	0.015	134673.5	490	6.1
	* 2	8.313	8.326	0.013	79641.75	521	
Aroclor 1254	1	9.3	9.318	0.018	130550	397	20.2
	* 2	9.45	9.466	0.016	119472.6	486	
Aroclor 1260	1	11.045	11.0625	0.0175	60256.4	216	4.5
	* 2	11.654	11.66983	0.0158	63620	226	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-03	File ID:	12292243ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/29/22 23:41
Solids:	55.70	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0401	Sequence:	SKL0370		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.41	8.427	0.017	166084.8	626	18.7
	2	8.312	8.326	0.014	70560.75	519	
Aroclor 1254	1	9.299	9.318	0.019	219907	680	21.5
	* 2	9.449	9.466	0.017	199857.2	844	
Aroclor 1260	1	11.044	11.0625	0.0185	84518.4	298	12.
	* 2	11.653	11.66983	0.0168	93536.5	336	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-43	File ID:	12292237ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	12/29/22 21:34
Solids:	62.76	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SKL0370		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.409	8.427	0.018	159856	130	14.9
	* 2	8.311	8.326	0.015	85369.25	151	
Aroclor 1254	* 1	9.297	9.318	0.021	184726.4	123	5.
	2	9.448	9.466	0.018	120462.6	117	
Aroclor 1260	1	11.043	11.0625	0.0195	74435.2	77.3	.5
	* 2	11.652	11.66983	0.0178	83855	77.7	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-05	File ID:	12272253ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 10:57
Solids:	71.25	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0401	Sequence:	SKL0377		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.411	8.427	0.016	140228.8	99.1	14.7
	2	8.313	8.326	0.013	59753.75	85.5	
Aroclor 1254	1	9.299	9.318	0.019	208074.4	122	17.9
	* 2	9.45	9.466	0.016	173428.6	146	
Aroclor 1260	1	11.044	11.0625	0.0185	75779	64.3	4.9
	* 2	11.655	11.66983	0.0148	83014.25	67.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-06	File ID:	12272254ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	12/28/22 11:18
Solids:	75.38	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0401	Sequence:	SKL0377		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	14310	7.4	26.
	2	8.315	8.326	0.011	3841	5.7	
Aroclor 1254	1	9.302	9.318	0.016	18888.2	11.9	16.9
	* 2	9.452	9.466	0.014	16522.6	14.1	
Aroclor 1260	1	11.046	11.0625	0.0165	9352.4	7.0	2.8
	* 2	11.656	11.66983	0.0138	9320.5	7.2	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-46	File ID:	12272222ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 00:02
Solids:	79.92	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SKL0377		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.415	8.427	0.012	8525.25	6.4	4.6
	* 2	8.316	8.326	0.01	4784	6.7	
Aroclor 1254	* 1	9.304	9.318	0.014	5439.6	3.6	18.2
	2	9.455	9.466	0.011	3954	3.0	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-47	File ID:	12272223ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 00:23
Solids:	76.20	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SKL0377		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.411	8.427	0.016	4301.5	3.3	21.6
	* 2	8.314	8.326	0.012	2739.75	4.1	
Aroclor 1254	1	9.301	9.318	0.017	4124	2.4	18.9
	* 2	9.452	9.466	0.014	3372	2.9	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-48	File ID:	12272224ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 00:45
Solids:	54.55	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SKL0377		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.41	8.427	0.017	107897	80.1	4.6
	2	8.311	8.326	0.015	49609.25	76.5	
Aroclor 1254	1	9.297	9.318	0.021	158395	95.8	16.5
	* 2	9.448	9.466	0.018	131455.2	113	
Aroclor 1260	1	11.044	11.0625	0.0185	95769	91.7	.2
	* 2	11.654	11.66983	0.0158	105252	91.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-53	File ID:	12272231ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 03:12
Solids:	76.89	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SKL0377		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	31400.75	16.1	1.3
	2	8.314	8.326	0.012	10467.75	15.9	
Aroclor 1254	1	9.3	9.318	0.018	50760.6	27.2	16.8
	* 2	9.451	9.466	0.015	37611.4	32.2	
Aroclor 1260	1	11.046	11.0625	0.0165	20861.8	16.8	1.8
	* 2	11.655	11.66983	0.0148	20468	16.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-55	File ID:	12272233ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	12/28/22 03:55
Solids:	69.14	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SKL0377		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.411	8.427	0.016	18907.25	14.5	8.6
	2	8.312	8.326	0.014	9397	13.3	
Aroclor 1254	1	9.299	9.318	0.019	33560.2	16.8	18.9
	* 2	9.45	9.466	0.016	29031.8	20.3	
Aroclor 1260	1	11.044	11.0625	0.0185	47976.4	44.1	6.6
	* 2	11.654	11.66983	0.0158	50225.5	41.3	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-04	File ID:	12312252ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	01/01/23 04:04
Solids:	57.08	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0401	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.414	8.427	0.013	87892.75	601	25.9
	2	8.315	8.326	0.011	37372	463	
Aroclor 1254	* 1	9.301	9.318	0.017	144545	816	7.4
	2	9.452	9.466	0.014	99850.4	758	
Aroclor 1260	1	11.045	11.0625	0.0175	50797.6	282	3.1
	* 2	11.656	11.66983	0.0138	51531	291	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-49	File ID:	12312253ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 04:25
Solids:	56.89	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.414	8.427	0.013	142912.3	989	25.7
	2	8.316	8.326	0.01	61755.5	764	
Aroclor 1254	1	9.302	9.318	0.016	182268.8	1040	9.2
	* 2	9.452	9.466	0.014	151679	1140	
Aroclor 1260	1	11.046	11.0625	0.0165	60915	347	10.9
	* 2	11.656	11.66983	0.0138	66026.25	387	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-50	File ID:	12312254ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 04:46
Solids:	56.26	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	116862	394	16.5
	2	8.315	8.326	0.011	51986.75	334	
Aroclor 1254	1	9.301	9.318	0.017	157032.2	444	4.4
	* 2	9.452	9.466	0.014	125417.6	464	
Aroclor 1260	1	11.046	11.0625	0.0165	64869.6	183	6.9
	* 2	11.656	11.66983	0.0138	66314	196	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-51	File ID:	12312255ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 05:07
Solids:	59.64	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.414	8.427	0.013	81180.75	275	6.8
	2	8.316	8.326	0.01	42285.75	257	
Aroclor 1254	* 1	9.302	9.318	0.016	115720	330	2.1
	2	9.453	9.466	0.013	86824.6	323	
Aroclor 1260	1	11.046	11.0625	0.0165	40403.4	119	.8
	* 2	11.656	11.66983	0.0138	40995.75	120	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-52	File ID:	12312256ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 05:29
Solids:	60.52	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.414	8.427	0.013	84082.75	292	14.7
	2	8.315	8.326	0.011	39032.25	252	
Aroclor 1254	* 1	9.302	9.318	0.016	117694	346	3.8
	2	9.453	9.466	0.013	89768.8	333	
Aroclor 1260	1	11.046	11.0625	0.0165	39221.4	116	2.6
	* 2	11.656	11.66983	0.0138	40370	119	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-54	File ID:	12312257ECD7.D
Sampled:	12/08/22 13:47	Prepared:	12/19/22 13:40	Analyzed:	01/01/23 05:50
Solids:	65.33	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.414	8.427	0.013	66053.25	437	31.2
	2	8.316	8.326	0.01	27171.25	319	
Aroclor 1254	1	9.303	9.318	0.015	95139	518	10.3
	* 2	9.454	9.466	0.012	80065	574	
Aroclor 1260	1	11.047	11.0625	0.0155	36583	191	6.1
	* 2	11.657	11.66983	0.0128	37440	203	

* Column used for quantitation

Analytical Resources, LLC
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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-63	File ID:	12312212ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 14:02
Solids:	58.82	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0488	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.411	8.427	0.016	132820.5	101	1.
	* 2	8.313	8.326	0.013	75254	102	
Aroclor 1254	* 1	9.299	9.318	0.019	218783.4	140	17.9
	2	9.449	9.466	0.017	130831.8	117	
Aroclor 1260	1	11.043	11.0625	0.0195	57965.4	54.6	3.6
	* 2	11.653	11.66983	0.0168	66242.5	56.6	

* Column used for quantitation

Analytical Resources, LLC
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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-64	File ID:	12312213ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 14:23
Solids:	63.69	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0488	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.41	8.427	0.017	146745.8	108	.
	2	8.312	8.326	0.014	80932.5	108	
Aroclor 1254	1	9.298	9.318	0.02	242197.4	127	23.6
	* 2	9.449	9.466	0.017	193778.2	161	
Aroclor 1260	1	11.043	11.0625	0.0195	78162	69.5	9.1
	* 2	11.654	11.66983	0.0158	93691.25	76.1	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-65	File ID:	12312214ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	12/31/22 14:44
Solids:	57.07	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0488	Sequence:	SLA0071		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.41	8.427	0.017	15115.5	11.8	9.8
	2	8.312	8.326	0.014	8237.5	10.7	
Aroclor 1254	1	9.297	9.318	0.021	21501.4	14.3	28.7
	* 2	9.449	9.466	0.017	21528.4	19.1	
Aroclor 1260	1	11.043	11.0625	0.0195	9269.4	9.5	.
	* 2	11.653	11.66983	0.0168	10514	9.5	

* Column used for quantitation

Analytical Resources, LLC
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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-31	File ID:	01032309ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/03/23 11:06
Solids:	68.45	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	249343.5	1140	47.
	2	8.315	8.326	0.011	186161.5	706	
Aroclor 1254	* 1	9.3	9.318	0.018	136572.6	724	26.1
	2	9.453	9.466	0.013	81990.8	557	
Aroclor 1260	* 1	11.047	11.0625	0.0155	26991	142	2.1
	2	11.657	11.66983	0.0128	26661.25	145	

* Column used for quantitation

Analytical Resources, LLC
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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-32	File ID:	01032310ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/03/23 11:27
Solids:	72.98	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.412	8.427	0.015	76097	373	2.9
	* 2	8.314	8.326	0.012	41941	384	
Aroclor 1254	* 1	9.301	9.318	0.017	117089.8	474	3.9
	2	9.452	9.466	0.014	85097.4	456	
Aroclor 1260	* 1	11.046	11.0625	0.0165	49090	199	4.6
	2	11.656	11.66983	0.0138	47293.25	190	

* Column used for quantitation

Analytical Resources, LLC
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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-44	File ID:	01032327ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/03/23 17:25
Solids:	61.67	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.412	8.427	0.015	193225	1440	19.4
	* 2	8.313	8.326	0.013	122355.3	1750	
Aroclor 1254	1	9.3	9.318	0.018	167032.8	1030	22.4
	* 2	9.45	9.466	0.016	155146.6	1290	
Aroclor 1260	* 1	11.046	11.0625	0.0165	39362.2	277	7.3
	2	11.655	11.66983	0.0148	42246.75	298	

* Column used for quantitation

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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-45	File ID:	01032328ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/03/23 17:46
Solids:	60.47	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.411	8.427	0.016	222697.3	1580	6.7
	* 2	8.312	8.326	0.014	119394.8	1690	
Aroclor 1254	* 1	9.299	9.318	0.019	186819.2	1100	5.6
	2	9.45	9.466	0.016	126142.4	1040	
Aroclor 1260	* 1	11.046	11.0625	0.0165	34519	240	4.5
	2	11.656	11.66983	0.0138	36213.25	251	

* Column used for quantitation

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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-61	File ID:	01032304ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	01/03/23 09:20
Solids:	56.71	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0488	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.424	8.427	0.003	122825	976	2.4
	2	8.311	8.326	0.015	67179.75	953	
Aroclor 1254	* 1	9.311	9.318	0.007	184603.8	1210	3.4
	2	9.449	9.466	0.017	132204.8	1170	
Aroclor 1260	* 1	11.056	11.0625	0.0065	51251.2	362	30.8
	2	11.654	11.66983	0.0158	62718.25	494	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-62	File ID:	01032305ECD7.D
Sampled:	12/08/22 14:29	Prepared:	12/20/22 10:55	Analyzed:	01/03/23 09:41
Solids:	57.26	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0488	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.414	8.427	0.013	109546.3	857	4.9
	* 2	8.313	8.326	0.013	46203.5	900	
Aroclor 1254	1	9.302	9.318	0.016	147778.8	962	1.8
	* 2	9.451	9.466	0.015	116888.2	979	
Aroclor 1260	* 1	11.047	11.0625	0.0155	54566	381	1.6
	2	11.655	11.66983	0.0148	56785	387	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-07	File ID:	01042307ECD7.D
Sampled:	12/07/22 14:14	Prepared:	12/16/22 18:57	Analyzed:	01/04/23 11:29
Solids:	68.98	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0401	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.305	9.318	0.013	13349.2	41.0	17.4
	* 2	9.455	9.466	0.011	11766.4	48.8	
Aroclor 1260	1	11.049	11.0625	0.0135	9337.4	29.0	1.7
	* 2	11.658	11.66983	0.0118	8627	28.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-24	File ID:	01042352ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/05/23 03:19
Solids:	51.63	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.409	8.427	0.018	44464.5	30.9	5.7
	2	8.311	8.326	0.015	21303.5	29.2	
Aroclor 1254	1	9.297	9.318	0.021	59016	33.0	12.2
	* 2	9.447	9.466	0.019	44931.2	37.3	
Aroclor 1260	1	11.042	11.0625	0.0205	39564.6	32.6	6.3
	* 2	11.652	11.66983	0.0178	40568.25	30.6	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-25	File ID:	01052374ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 14:02
Solids:	51.87	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.409	8.427	0.018	35183	26.1	4.7
	2	8.311	8.326	0.015	16855	24.9	
Aroclor 1254	1	9.298	9.318	0.02	55382.4	33.1	16.1
	* 2	9.449	9.466	0.017	44579	38.9	
Aroclor 1260	1	11.044	11.0625	0.0185	36128	32.3	6.1
	* 2	11.653	11.66983	0.0168	37605.75	30.4	

* Column used for quantitation

Analytical Resources, LLC
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DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-26	File ID:	01052375ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 14:23
Solids:	52.29	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.407	8.427	0.02	74239.25	51.7	13.
	2	8.311	8.326	0.015	39933	45.4	
Aroclor 1254	1	9.297	9.318	0.021	124619.8	69.7	18.7
	* 2	9.448	9.466	0.018	105605.6	84.1	
Aroclor 1260	1	11.043	11.0625	0.0195	75638.8	67.1	4.4
	* 2	11.652	11.66983	0.0178	84651.5	64.2	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-27	File ID:	01052376ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 14:44
Solids:	53.82	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.407	8.427	0.02	56554.75	41.5	9.9
	2	8.31	8.326	0.016	32526	37.6	
Aroclor 1254	1	9.297	9.318	0.021	83426.4	50.1	29.
	* 2	9.448	9.466	0.018	80938.4	67.1	
Aroclor 1260	1	11.043	11.0625	0.0195	56795.6	52.5	2.9
	* 2	11.653	11.66983	0.0168	63395.5	51.0	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-28	File ID:	01052377ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 15:05
Solids:	53.80	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.409	8.427	0.018	87300.75	63.7	6.8
	2	8.311	8.326	0.015	48926.5	59.5	
Aroclor 1254	1	9.298	9.318	0.02	147725.4	90.1	4.9
	* 2	9.448	9.466	0.018	104958	94.6	
Aroclor 1260	1	11.043	11.0625	0.0195	79724.2	80.4	5.4
	* 2	11.653	11.66983	0.0168	90753.25	76.2	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-29	File ID:	01052378ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 15:26
Solids:	57.29	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.409	8.427	0.018	154017.5	110	8.7
	* 2	8.311	8.326	0.015	91093	120	
Aroclor 1254	1	9.297	9.318	0.021	204711.2	120	9.5
	* 2	9.447	9.466	0.019	164046.6	132	
Aroclor 1260	1	11.043	11.0625	0.0195	79280.4	73.7	4.2
	* 2	11.653	11.66983	0.0168	90815	70.7	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-30	File ID:	01052379ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 15:47
Solids:	59.26	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.413	8.427	0.014	152851.5	2250	5.2
	* 2	8.314	8.326	0.012	83635.75	2370	
Aroclor 1254	* 1	9.3	9.318	0.018	112786.6	1370	5.2
	2	9.451	9.466	0.015	86010.6	1300	
Aroclor 1260	1	11.047	11.0625	0.0155	25392.2	349	9.5
	* 2	11.656	11.66983	0.0138	27918	384	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-35	File ID:	01052382ECD7.D
Sampled:	12/08/22 10:39	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 16:50
Solids:	52.06	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.408	8.427	0.019	79827	59.1	17.5
	2	8.311	8.326	0.015	42332.25	49.6	
Aroclor 1254	1	9.297	9.318	0.021	136622.6	81.6	4.6
	* 2	9.447	9.466	0.019	97509.4	85.4	
Aroclor 1260	1	11.042	11.0625	0.0205	86875.4	78.5	3.9
	* 2	11.652	11.66983	0.0178	96439.5	75.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-36	File ID:	01052383ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 17:11
Solids:	60.12	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.411	8.427	0.016	39373.5	30.2	7.2
	2	8.313	8.326	0.013	20776.75	28.1	
Aroclor 1254	1	9.299	9.318	0.019	59571.4	37.3	27.7
	* 2	9.449	9.466	0.017	59277.4	49.3	
Aroclor 1260	1	11.044	11.0625	0.0185	43366.8	35.5	3.7
	* 2	11.654	11.66983	0.0158	45509.5	34.2	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-37	File ID:	01052386ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 18:15
Solids:	52.97	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.409	8.427	0.018	52502.25	38.7	12.3
	2	8.311	8.326	0.015	25147.5	34.2	
Aroclor 1254	1	9.298	9.318	0.02	64813	38.9	29.6
	* 2	9.448	9.466	0.018	64153.6	52.4	
Aroclor 1260	1	11.044	11.0625	0.0185	47592.6	39.8	3.3
	* 2	11.652	11.66983	0.0178	50298.75	38.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-38	File ID:	01052387ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 18:36
Solids:	55.94	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.407	8.427	0.02	55722.25	39.5	19.1
	2	8.311	8.326	0.015	24732	32.6	
Aroclor 1254	1	9.297	9.318	0.021	93521.2	53.3	19.3
	* 2	9.448	9.466	0.018	80758.4	64.7	
Aroclor 1260	1	11.043	11.0625	0.0195	66053.2	56.2	.2
	* 2	11.652	11.66983	0.0178	73558.25	56.1	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-39	File ID:	01052388ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 18:57
Solids:	57.00	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.409	8.427	0.018	178783.3	129	6.
	* 2	8.311	8.326	0.015	101253	137	
Aroclor 1254	1	9.298	9.318	0.02	246988.4	146	11.6
	* 2	9.448	9.466	0.018	197536.8	164	
Aroclor 1260	1	11.043	11.0625	0.0195	92073.8	82.5	.6
	* 2	11.652	11.66983	0.0178	106856.8	82.0	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-40	File ID:	01052369ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 12:08	Analyzed:	01/06/23 12:16
Solids:	56.76	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0402	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.411	8.427	0.016	103994	80.0	.6
	2	8.312	8.326	0.014	58122.75	79.5	
Aroclor 1254	1	9.298	9.318	0.02	148561	93.7	9.5
	* 2	9.449	9.466	0.017	121651.4	103	
Aroclor 1260	1	11.043	11.0625	0.0195	63335.6	62.4	1.8
	* 2	11.653	11.66983	0.0168	72623	61.3	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-41	File ID:	01052370ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/06/23 12:37
Solids:	55.35	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.413	8.427	0.014	67610.75	235	1.7
	* 2	8.314	8.326	0.012	38168.75	239	
Aroclor 1254	1	9.3	9.318	0.018	68721.4	197	5.4
	* 2	9.451	9.466	0.015	56283.2	208	
Aroclor 1260	1	11.046	11.0625	0.0165	26199	94.0	14.4
	* 2	11.655	11.66983	0.0148	24456.75	81.4	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0199
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0199-42	File ID:	01052371ECD7.D
Sampled:	12/08/22 11:27	Prepared:	12/19/22 13:40	Analyzed:	01/06/23 12:58
Solids:	57.10	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0404	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	76232.25	288	1.8
	2	8.314	8.326	0.012	40312	283	
Aroclor 1254	1	9.301	9.318	0.017	69159	215	2.8
	* 2	9.451	9.466	0.015	55149.4	221	
Aroclor 1260	1	11.045	11.0625	0.0175	21673.6	76.9	1.
	* 2	11.656	11.66983	0.0138	23085.75	77.7	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC762A 22L0199-01	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/29/22 22:58	13	40	
LDW22-SC762B 22L0199-02	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/29/22 23:20	13	40	
LDW22-SC762C 22L0199-03	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/29/22 23:41	13	40	
LDW22-SC762D 22L0199-04	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	01/01/23 04:04	15	40	
LDW22-SC762E 22L0199-05	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/28/22 10:57	12	40	
LDW22-SC762F 22L0199-06	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/28/22 11:18	12	40	
LDW22-SC762G 22L0199-07	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	01/04/23 11:29	19	40	
LDW22-SC762H 22L0199-08	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/28/22 12:00	12	40	
LDW22-SC762I 22L0199-09	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/30/22 01:26	13	40	
LDW22-SC762J 22L0199-10	12/07/22 14:14	12/08/22 17:18	12/16/22 18:57	9	365	12/28/22 12:42	12	40	
LDW22-IT789F 22L0199-11	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 13:45	12	40	
LDW22-IT789G 22L0199-12	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 14:06	12	40	
LDW22-IT789H 22L0199-13	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/30/22 01:47	13	40	
LDW22-IT789I 22L0199-14	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 14:49	12	40	
LDW22-IT789I-FD 22L0199-15	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/30/22 02:08	13	40	
LDW22-IT789J 22L0199-16	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 15:31	12	40	
LDW22-IT789K 22L0199-17	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 15:52	12	40	
LDW22-IT789L 22L0199-18	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 16:13	12	40	
LDW22-IT790I 22L0199-19	12/08/22 09:20	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 16:34	12	40	
LDW22-IT790J 22L0199-20	12/08/22 09:20	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 16:55	12	40	
LDW22-IT790K 22L0199-21	12/08/22 09:20	12/08/22 17:18	12/19/22 12:08	11	365	12/30/22 16:36	11	40	
LDW22-IT790L 22L0199-22	12/08/22 09:20	12/08/22 17:18	12/19/22 12:08	11	365	12/30/22 16:58	11	40	

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT790M 22L0199-23	12/08/22 09:20	12/08/22 17:18	12/19/22 12:08	11	365	12/30/22 17:19	11	40	
LDW22-SC802A 22L0199-24	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/05/23 03:19	17	40	
LDW22-SC802B 22L0199-25	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 14:02	18	40	
LDW22-SC802C 22L0199-26	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 14:23	18	40	
LDW22-SC802D 22L0199-27	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 14:44	18	40	
LDW22-SC802E 22L0199-28	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 15:05	18	40	
LDW22-SC802F 22L0199-29	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 15:26	18	40	
LDW22-SC802G 22L0199-30	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 15:47	18	40	
LDW22-SC802H 22L0199-31	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/03/23 11:06	15	40	
LDW22-SC802I 22L0199-32	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/03/23 11:27	15	40	
LDW22-SC802J 22L0199-33	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 16:08	18	40	
LDW22-SC802K 22L0199-34	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 16:29	18	40	
LDW22-SC802C-FD 22L0199-35	12/08/22 10:39	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 16:50	18	40	
LDW22-SC787A 22L0199-36	12/08/22 11:27	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 17:11	18	40	
LDW22-SC787B 22L0199-37	12/08/22 11:27	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 18:15	18	40	
LDW22-SC787C 22L0199-38	12/08/22 11:27	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 18:36	18	40	
LDW22-SC787D 22L0199-39	12/08/22 11:27	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 18:57	18	40	
LDW22-SC787E 22L0199-40	12/08/22 11:27	12/08/22 17:18	12/19/22 12:08	11	365	01/06/23 12:16	18	40	
LDW22-SC787F 22L0199-41	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	01/06/23 12:37	18	40	
LDW22-SC787G 22L0199-42	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	01/06/23 12:58	18	40	
LDW22-SC787H 22L0199-43	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	12/29/22 21:34	10	40	
LDW22-SC787I 22L0199-44	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	01/03/23 17:25	15	40	

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC787J 22L0199-45	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	01/03/23 17:46	15	40	
LDW22-SC787K 22L0199-46	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	12/28/22 00:02	8	40	
LDW22-SC787L 22L0199-47	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	12/28/22 00:23	8	40	
LDW22-SC761A 22L0199-48	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 00:45	8	40	
LDW22-SC761B 22L0199-49	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	01/01/23 04:25	13	40	
LDW22-SC761C 22L0199-50	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	01/01/23 04:46	13	40	
LDW22-SC761D 22L0199-51	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	01/01/23 05:07	13	40	
LDW22-SC761D-FD 22L0199-52	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	01/01/23 05:29	13	40	
LDW22-SC761E 22L0199-53	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 03:12	9	40	
LDW22-SC761F 22L0199-54	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	01/01/23 05:50	13	40	
LDW22-SC761G 22L0199-55	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 03:55	9	40	
LDW22-SC761H 22L0199-56	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 04:16	9	40	
LDW22-SC761I 22L0199-57	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 04:37	9	40	
LDW22-SC761J 22L0199-58	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 04:58	9	40	
LDW22-SC761K 22L0199-59	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 05:19	9	40	
LDW22-SC761L 22L0199-60	12/08/22 13:47	12/08/22 17:18	12/19/22 13:40	10	365	12/28/22 05:40	9	40	
LDW22-SC758B 22L0199-61	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	01/03/23 09:20	14	40	
LDW22-SC758C 22L0199-62	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	01/03/23 09:41	14	40	
LDW22-SC758D 22L0199-63	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 14:02	11	40	
LDW22-SC758E 22L0199-64	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 14:23	11	40	
LDW22-SC758F 22L0199-65	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 14:44	11	40	
LDW22-SC758G 22L0199-66	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 15:05	11	40	

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC758H 22L0199-67	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 15:26	11	40	
LDW22-SC758I 22L0199-68	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 15:47	11	40	
LDW22-SC758J 22L0199-69	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 16:08	11	40	
LDW22-SC758K 22L0199-70	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 16:29	11	40	
Matrix Spike BKL0401-MS1	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/28/22 08:08	12	40	
Matrix Spike Dup BKL0401-MSD1	12/08/22 08:17	12/08/22 17:18	12/16/22 18:57	8	365	12/29/22 22:37	13	40	
Matrix Spike BKL0402-MS1	12/08/22 09:20	12/08/22 17:18	12/19/22 12:08	11	365	12/30/22 15:54	11	40	
Matrix Spike Dup BKL0402-MSD1	12/08/22 09:20	12/08/22 17:18	12/19/22 12:08	11	365	12/30/22 16:15	11	40	
Matrix Spike BKL0404-MS1	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	12/27/22 20:52	8	40	
Matrix Spike Dup BKL0404-MSD1	12/08/22 11:27	12/08/22 17:18	12/19/22 13:40	11	365	12/27/22 21:13	8	40	
Matrix Spike BKL0488-MS1	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 12:37	11	40	
Matrix Spike Dup BKL0488-MSD1	12/08/22 14:29	12/08/22 17:18	12/20/22 10:55	11	365	12/31/22 12:58	11	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

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Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

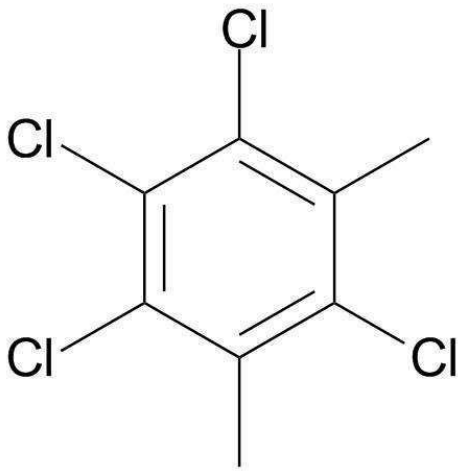
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

AccuStandard
125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

2,

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468
Description: Aroclor 1221
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14017
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

I 10155

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Reference Material Producer
Certicate No. 2427.02

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469
Description: Aroclor 1232
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14914
Certification Date: January 31, 2020
Expiration Date: January 31, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

I 010156

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Reference Material Producer
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4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101470
Description: Aroclor 1242
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14018
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

I 010157

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Reference Material Producer
Certicate No. 2427.02

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5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101471
Description: Aroclor 1248
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL15384
Certification Date: June 19, 2020
Expiration Date: June 30, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1248	12672-29-6	1000	± 0.520%

I 010158

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Reference Material Producer
Certicate No. 2427.02

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3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101472
Description: Aroclor 1254
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL13055
Certification Date: November 29, 2018
Expiration Date: November 30, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.247%

I 010159

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Reference Material Producer
Certificate No. 2427.02

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Certificate No. 2427.03

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
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[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101474	**Lot Number:**	CL11330
Description:	Aroclor 1262	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

I 10160

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101475	**Lot Number:**	CL11331
Description:	Aroclor 1268	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

I 012161

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Manufactured by Phenova, Inc.
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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

J00645

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Certicate No. 2427.02

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL16555
Certification Date: June 22, 2021
Expiration Date: February 28, 2029

J012591
AROCLOR 1016
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.310%

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Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

J012592
AROCLOR 1260
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

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3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

Agilent

Aroclor 1016 Solution

Product Number: PP-282 **Page:** 1 of 1

Lot Number: CR-0761 **Lot Issue Date:** 28-Feb-2017 **Expiration Date:** 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1254 JR
Read
02/05/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1 **Lot Issue Date:** 20-Jan-2021

Lot Number: 0006582048 **Expiration Date:** 28-Feb-2025

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K 1255

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis
ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312 **Page:** 1 of 1

Lot Number: CS-6293 **Lot Issue Date:** 04-Jan-2019 **Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No.
AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Aroclor 1248 Standard	**Lot Number:**	0006626997
Product Number:	PP-342-1	**Lot Issue Date:**	17-Aug-2021
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Sep-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3	±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Certificate of Analysis

Agilent

Aroclor 1254 Solution

Product Number: PP-352 **Page:** 1 of 1

Lot Number: CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1258

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1 **Lot Issue Date:** 28-Apr-2020

Lot Number: 0006535333 **Expiration Date:** 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1 **Page:** 1 of 1

Lot Number: 0006499800 **Lot Issue Date:** 04-Nov-2019 **Expiration Date:** 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1 **Page:** 1 of 1

Lot Number: CF-2197A **Lot Issue Date:** 05-Jul-2016 **Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1 **Lot Issue Date:** 09-Feb-2021

Lot Number: 0006587800 **Expiration Date:** 31-Mar-2029

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15350

Order Number: CB014765

Date Shipped: 4/11/2022

AirBill No(s): 519204140444

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: Kelly Bottem
Analytical Resources, Inc.
4611 S. 134th Place SUITE 100
Tukwila WA 98168
206-695-6211

K003525
K003528

Sample ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0148	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0149	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0150	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0151	1	PUGET SOUND SEDIMENT RM	PS-SRM

4/11/2022

BOEING PLANT 2

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time 1400 4/11/2022	Received by: (Signature)	Date/Time 0955 04/12/22
Custody Seal(s): Present/Absent PRESENT	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

PUGET SOUND SEDIMENT REFERENCE MATERIAL
QATS LABORATORY INSTRUCTIONS FOR
HRGC/HRMS CDD/CDF/CB CONGENER AND GC/ECD AROCLOR ANALYSIS

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocols or your contract, disregard these instructions.

APPLICATION: For the analysis of CDD/CDF and CB Congener analytes using project-specified HRGC/HRMS methods, and Aroclors using project-specified GC/ECD methods.

CAUTION: Read instructions carefully before opening bottles and proceeding with the analyses.

Contains CDD/CDF, CB Congener, and/or Aroclors
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a Puget Sound (Washington State) Sediment Reference Material (SRM) set for chlorinated dibenzo-p-dioxins/chlorinated dibenzofurans (CDD/CDF), and/or chlorinated biphenyl (CB) congener analysis using project-specified high resolution gas chromatography/ high resolution mass spectrometry (HRGC/HRMS) methods. This SRM is also suitable for Aroclors analysis using project-specified gas chromatography/electron capture detection (GC/ECD) methods. This set consists of one (1) or more bottles, each with approximately 30 grams of Puget Sound SRM containing CDD/CDF, CB Congener, and/or Aroclor analytes. Check the chain-of-custody record to determine the number of bottles provided for CDD/CDF, CB Congener, and/or Aroclor analysis. None of the bottles are to be opened until SRM preparation/analysis is to occur.

CAUTION: The SRM could contain compounds that are light sensitive and should be protected from light during storage. Store the SRM at ≤ 6° C, preferably at < 0° C, until SRM preparation and analysis is to occur. Allow the bottle(s) to reach ambient temperature before opening.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

The SRM is to be analyzed as described in the project-specified methods employed for the analysis of CDD/CDF and/or CB Congener analytes using HRGC/HRMS instrumentation and/or Aroclors using GC/ECD instrumentation. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the project-specified methods, or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The SRM contains CDD/CDF, CB Congener, and Aroclor analytes which are known or suspected to have severe health effects. Employing appropriate safety precautions, this SRM is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The SRM should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials. When calculating the concentrations of analytes, use 0% as the soil moisture content.

Allow the bottle(s) to reach ambient temperature before opening and removing gravimetric amounts for sample preparation. To begin the extraction and analysis procedure, break the seal and open the bottle carefully. Weigh out the appropriate aliquot for extraction and analysis as prescribed in the project-specified methods (typically 10 grams for HRGC/HRMS methods and 30 grams for GC/ECD methods), or in accordance with your contract.

Proceed immediately with the extraction and analysis as described in the project-specified methods or your contract.

(E) *REPORTING*

Report the results for the prepared SRM as received.

Report the analytical results for the SRM to EPA or other appropriate Agency, using the format and other instructions for submission of data packages as specified in your contract.

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL12975
Certification Date: November 19, 2018
Expiration Date: October 31, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

K 5829

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL11110613_us

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106I3_US

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL18021
Certification Date: February 14, 2022
Expiration Date: February 28, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15546

Order Number: CB014961

Date Shipped: 11/17/2022

AirBill No(s): 519204142414

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: Kelly Bottem
Analytical Resources, Inc.
4611 S. 134th Place SUITE 100
Tukwila WA 98168
206-695-6211

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0164	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0165	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0166	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM

11/17/2022

PUGET SOUND SRM FOR THE LOCKHEED WEST SEATTLE SF SITE 5-YEAR REVIEW MONITORING.

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11/17/2022 (1400)	phillip	11/18/22 10:22
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW22-IT789F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-11 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m2230103-067
% Solids:	88.08	Preparation:	SWN EPA 3050B	Analyzed:	01/03/23 20:09
Batch:	BKL0529	Sequence:	SLA0022	Initial/Final:	1.061 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00010

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	437	100	0.20	1.07	D

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Form I
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Total Metals

LDW22-IT789G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-12 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m2230103-094
% Solids:	89.32	Preparation:	SWN EPA 3050B	Analyzed:	01/03/23 22:33
Batch:	BKL0529	Sequence:	SLA0022	Initial/Final:	1.021 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00010

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	1250	500	1.04	5.48	D

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Total Metals

LDW22-IT789H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-13 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m2230103-097
% Solids:	84.85	Preparation:	SWN EPA 3050B	Analyzed:	01/03/23 22:46
Batch:	BKL0529	Sequence:	SLA0022	Initial/Final:	1.039 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00010

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	3120	1,000	2.16	11.3	D

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Total Metals

LDW22-IT789I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-14 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m2230103-095
% Solids:	85.38	Preparation:	SWN EPA 3050B	Analyzed:	01/03/23 22:37
Batch:	BKL0529	Sequence:	SLA0022	Initial/Final:	1.076 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00010

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	1360	500	1.03	5.44	D

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Total Metals

LDW22-IT789I-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-15 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m2230103-096
% Solids:	83.32	Preparation:	SWN EPA 3050B	Analyzed:	01/03/23 22:41
Batch:	BKL0529	Sequence:	SLA0022	Initial/Final:	1.038 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00010

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	1400	500	1.10	5.78	D

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Total Metals

LDW22-IT789J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-16 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m2230103-093
% Solids:	85.35	Preparation:	SWN EPA 3050B	Analyzed:	01/03/23 22:28
Batch:	BKL0529	Sequence:	SLA0022	Initial/Final:	1.015 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00010

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	754	200	0.44	2.31	D

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Total Metals

LDW22-IT789K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-17 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-092
% Solids:	85.88	Preparation:	SWN EPA 3050B	Analyzed:	12/28/22 23:28
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.081 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	115	20	0.04	0.22	

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Total Metals

LDW22-IT789L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-18 A	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-093
% Solids:	79.12	Preparation:	SWN EPA 3050B	Analyzed:	12/28/22 23:32
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.035 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	75.2	20	0.05	0.24	

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Total Metals

LDW22-IT790I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-19 A	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-094
% Solids:	84.58	Preparation:	SWN EPA 3050B	Analyzed:	12/28/22 23:37
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.019 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	176	20	0.04	0.23	

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Total Metals

LDW22-IT790J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-20 A	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-095
% Solids:	81.85	Preparation:	SWN EPA 3050B	Analyzed:	12/28/22 23:42
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.039 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	158	20	0.04	0.24	

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Total Metals

LDW22-IT790K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-21 A	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/21/22 09:20	File ID:	XDT_m2230103-092
% Solids:	87.91	Preparation:	SWN EPA 3050B	Analyzed:	01/03/23 22:24
Batch:	BKL0529	Sequence:	SLA0022	Initial/Final:	1.008 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00010

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	311	100	0.21	1.13	D

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Total Metals

LDW22-IT790L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-22 A	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-097
% Solids:	75.70	Preparation:	SWN EPA 3050B	Analyzed:	12/28/22 23:51
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.037 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	155	20	0.05	0.25	

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Total Metals

LDW22-IT790M

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-23 A	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-098
% Solids:	69.17	Preparation:	SWN EPA 3050B	Analyzed:	12/28/22 23:56
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.081 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	17.1	20	0.05	0.27	

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Total Metals

LDW22-SC787A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-36 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-099
% Solids:	56.99	Preparation:	SWN EPA 3050B	Analyzed:	12/29/22 00:00
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.056 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	5.50	20	0.06	0.33	

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Total Metals

LDW22-SC787B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-37 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-103
% Solids:	52.03	Preparation:	SWN EPA 3050B	Analyzed:	12/29/22 00:22
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.016 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	8.97	20	0.07	0.38	

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Total Metals

LDW22-SC787C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-38 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-104
% Solids:	55.75	Preparation:	SWN EPA 3050B	Analyzed:	12/29/22 00:27
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.074 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	8.37	20	0.06	0.33	

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Total Metals

LDW22-SC787D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-39 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-105
% Solids:	58.30	Preparation:	SWN EPA 3050B	Analyzed:	12/29/22 00:31
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.067 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	12.0	20	0.06	0.32	

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Total Metals

LDW22-SC787E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-40 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-106
% Solids:	56.13	Preparation:	SWN EPA 3050B	Analyzed:	12/29/22 00:36
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.062 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	10.1	20	0.06	0.34	

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Total Metals

LDW22-SC787F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-41 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-107
% Solids:	53.73	Preparation:	SWN EPA 3050B	Analyzed:	12/29/22 00:41
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.035 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	10.8	20	0.07	0.36	

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EPA 6020B UCT-KED

Total Metals

LDW22-SC787G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-42 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/21/22 09:20	File ID:	XDT_m1221228-108
% Solids:	55.12	Preparation:	SWN EPA 3050B	Analyzed:	12/29/22 00:45
Batch:	BKL0529	Sequence:	SKL0361	Initial/Final:	1.048 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00061

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	9.42	20	0.07	0.35	

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Total Metals

LDW22-SC787H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-43 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/27/22 10:02	File ID:	XDT_m2230109-045
% Solids:	60.97	Preparation:	SWN EPA 3050B	Analyzed:	01/09/23 17:40
Batch:	BKL0608	Sequence:	SLA0097	Initial/Final:	1.022 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00024

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	9.89	20	0.06	0.32	

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Total Metals

LDW22-SC787I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-44 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/27/22 10:02	File ID:	XDT_m2230109-046
% Solids:	63.87	Preparation:	SWN EPA 3050B	Analyzed:	01/09/23 17:45
Batch:	BKL0608	Sequence:	SLA0097	Initial/Final:	1.02 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00024

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	11.7	20	0.06	0.31	

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INORGANIC ANALYSIS DATA SHEET
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Total Metals

LDW22-SC787J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-45 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/27/22 10:02	File ID:	XDT_m2230109-056
% Solids:	60.26	Preparation:	SWN EPA 3050B	Analyzed:	01/09/23 18:36
Batch:	BKL0608	Sequence:	SLA0097	Initial/Final:	1.082 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00024

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	12.8	20	0.06	0.31	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW22-SC787K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-46 A	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/27/22 10:02	File ID:	XDT_m2230109-057
% Solids:	78.03	Preparation:	SWN EPA 3050B	Analyzed:	01/09/23 18:41
Batch:	BKL0608	Sequence:	SLA0097	Initial/Final:	1.073 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00024

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	2.34	20	0.05	0.24	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW22-SC787L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-47 B	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/27/22 10:02	File ID:	XDT_m2230109-058
% Solids:	73.45	Preparation:	SWN EPA 3050B	Analyzed:	01/09/23 18:45
Batch:	BKL0608	Sequence:	SLA0097	Initial/Final:	1.063 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00024

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	3.97	20	0.05	0.26	

PREPARATION BATCH SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0529 Batch Matrix: Solid Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT789F	22L0199-11	XDT_m2230103-067	12/21/22 09:20	
LDW22-IT789G	22L0199-12	XDT_m2230103-094	12/21/22 09:20	
LDW22-IT789H	22L0199-13	XDT_m2230103-097	12/21/22 09:20	
LDW22-IT789I	22L0199-14	XDT_m2230103-095	12/21/22 09:20	
LDW22-IT789I-FD	22L0199-15	XDT_m2230103-096	12/21/22 09:20	
LDW22-IT789J	22L0199-16	XDT_m2230103-093	12/21/22 09:20	
LDW22-IT789K	22L0199-17	XDT_m1221228-092	12/21/22 09:20	
LDW22-IT789L	22L0199-18	XDT_m1221228-093	12/21/22 09:20	
LDW22-IT790I	22L0199-19	XDT_m1221228-094	12/21/22 09:20	
LDW22-IT790J	22L0199-20	XDT_m1221228-095	12/21/22 09:20	
LDW22-IT790K	22L0199-21	XDT_m2230103-092	12/21/22 09:20	
LDW22-IT790L	22L0199-22	XDT_m1221228-097	12/21/22 09:20	
LDW22-IT790M	22L0199-23	XDT_m1221228-098	12/21/22 09:20	
LDW22-SC787A	22L0199-36	XDT_m1221228-099	12/21/22 09:20	
LDW22-SC787B	22L0199-37	XDT_m1221228-103	12/21/22 09:20	
LDW22-SC787C	22L0199-38	XDT_m1221228-104	12/21/22 09:20	
LDW22-SC787D	22L0199-39	XDT_m1221228-105	12/21/22 09:20	
LDW22-SC787E	22L0199-40	XDT_m1221228-106	12/21/22 09:20	
LDW22-SC787F	22L0199-41	XDT_m1221228-107	12/21/22 09:20	
LDW22-SC787G	22L0199-42	XDT_m1221228-108	12/21/22 09:20	
Blank	BKL0529-BLK1	XDT_m1221228-055	12/21/22 09:20	
LCS	BKL0529-BS1	XDT_m1221228-056	12/21/22 09:20	
LDW22-IT789F	BKL0529-DUP1	XDT_m2230103-068	12/21/22 09:20	
LDW22-IT789F	BKL0529-MS1	XDT_m2230103-069	12/21/22 09:20	
LDW22-IT789F	BKL0529-MSD1	XDT_m2230103-070	12/21/22 09:20	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: AR Date: 12/22/22 Time: 1552 - 2057 Balance ID: BALIO

Matrix: SOIL Block ID: 8 Block Temp: 96°C Thermometer: 20-3

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
22L199-11	A		1.061	50			
-12			1.071				
-13			1.039				
-14			1.076				
-15			1.038				
-16			1.015				
-17			1.081				
-18			1.035				
-19			1.019				
-20			1.039				
-21			1.008				
-22			1.037				
-23			1.081				
-36			1.056				
-37			1.016				
-38			1.074				
-39			1.067				
-40			1.067				
-41			~~1.032~~ (1)				
-42			1.048				
BKLS29-BK	—		—				22L199-11
-BS	—		—				
-DUP	—		1.063				
-MS	—		1.061				
-MSD	—		1.064				
-SRM	—		1.001				

Chemical/Reagent ID:

HNO_3: K11506 1:1 HNO_3: K11786 HCl: — H_2O_2: K100516

Tube Lot#: 72080105 Boiling Chip Lot#: — (DoD Only)

5061F
Version 007

11/8/22

(1) 1.035

PREPARATION BATCH SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0608 Batch Matrix: Solid Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC787H	22L0199-43	XDT_m2230109-045	12/27/22 10:02	
LDW22-SC787I	22L0199-44	XDT_m2230109-046	12/27/22 10:02	
LDW22-SC787J	22L0199-45	XDT_m2230109-056	12/27/22 10:02	
LDW22-SC787K	22L0199-46	XDT_m2230109-057	12/27/22 10:02	
LDW22-SC787L	22L0199-47	XDT_m2230109-058	12/27/22 10:02	
Blank	BKL0608-BLK1	XDT_m2230109-026	12/27/22 10:02	
LCS	BKL0608-BS1	XDT_m2230109-027	12/27/22 10:02	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: AR Date: 12/29/22 Time: 1449-1940 Balance ID: BAL10

Matrix: Soil Block ID: 8 Block Temp: 90°C Thermometer: 70-4

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
22L199-43	A		1.022	50	1		
-44			1.020				
-45			1.082				
-46			1.073				
-47			1.063				
22L329-07	B		1.049				
-08			~~1.057~~ (1)				
-09	A		1.060		AR	12/29/22	
-10	B		1.057				
-11	A		1.086				
-12			1.019				
-13			1.027				
-14			1.017				
22L459-01	C		1.071				
-02	D		1.051				
-03	C		1.079				
-04			1.057				
-05			1.070				
-06	D		1.046				
-07	C		1.087				
BKL1018-blk	—		—				22L329-07
-bs	—		—				
-dup	—		1.048				
-MS	—		1.048				
-MSD	—		1.045				
-SRM	—		1.003				

Chemical/Reagent ID:

HNO_3: K115016 1:1 HNO_3: K117860 HCl: — H_2O_2: K100516

Tube Lot#: 22080165 Boiling Chip Lot#: — (DoD Only)

(1) 1.069

Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0199

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0529 | Laboratory ID: BKL0529-BLK1 | Prepared: 12/21/22 09:20

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 12/28/22 20:06

Sequence: SKL0361 | Calibration: FL00061 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic-75a	ND	20	0.04	0.20	U

Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0608
Laboratory ID: BKL0608-BLK1
Prepared: 12/27/22 10:02
Matrix: Solid
Preparation: SWN EPA 3050B
Analyzed: 01/09/23 15:59
Sequence: SLA0097
Calibration: GA00024
Instrument: ICPMS2

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic-75a	ND	20	0.04	0.20	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/28/22 20:11
Batch:	BKL0529	Laboratory ID:	BKL0529-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Arsenic-75a	25.0	25.8		103	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/09/23 16:03
Batch:	BKL0608	Laboratory ID:	BKL0608-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Arsenic-75a	25.0	25.2		101	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 6020B UCT-KED

Total Metals

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0529-DUP1
Batch: BKL0529
Lab Source ID: 22L0199-11
Preparation: SWN EPA 3050B
Initial/Final: 1.063 g / 50 mL
Source Sample Name: LDW22-IT789F
% Solids: 88.08

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Arsenic-75a	20	437	431	1.51	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

MS / MS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/03/23 20:18
Batch:	BKL0529	Laboratory ID:	BKL0529-MS1
Preparation:	SWN EPA 3050B	Sequence Name:	Matrix Spike
Initial/Final:	1.061 g / 50 mL	Source Sample:	LDW22-IT789F

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	Q	MS CONCENTRATION (mg/kg dry)	Q	MS % REC. #		QC LIMITS REC.
Arsenic-75a	26.8	437	D	479	HC, D	155	*	75 - 125

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/03/23 20:22
Batch:	BKL0529	Laboratory ID:	BKL0529-MSD1
Preparation:	SWN EPA 3050B	Sequence Name:	Matrix Spike Dup
Initial/Final:	1.064 g / 50 mL	Source Sample:	LDW22-IT789F

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic-75a	26.7	476	HC, D	146 *	0.518	20	75 - 125

* Values outside of QC limits

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00061
Instrument: ICPMS1
Calibration Date: 12/28/2022 14:51

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	325	10	280.9	20	274.75	50	283.22	100	278.39

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00061	Instrument:	ICPMS1
Calibration Date:	12/28/2022 14:51		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	240.3767	49.6	0.9999		0.998	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** SKLØ361 **Cal:** FLØØØ61

All corrections made by analyst unless otherwise noted. MB 12/28/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	K11736		
		-CAL2	K11737		
		-CAL3	K11738		
		-CAL4	K11739		
		-CAL5	K11644		
		-CAL6	K1174Ø		
		-IBL1	—		
		-ICV1	K74Ø3		
		-ICB1	K11736		
		-CCV1	K11644		
		-CCB1	K11736		
		-CRL1	K11737		
		-IFA1	K11871		V^{-1}, Cr^{53} ↑
		-IFB1	K11683		↓
		-HCV1	K11379		
		-HCV2	K1154Ø		Se↓ - Se<200
		-IBL2	—		
		-IBL3	—		
	✓	-CCV2	—		Ge noisy
		-CCV2			~~Ba 137↑~~ OK
		-CCB2			
		BKLØ48Ø-BLK1	REN		~~No Ba 137 Re-run if needed~~
		↓ -BS1	↓		
		BKLØ656-BLK1			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 12/28/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ656-BS1	REN		~~No Ba 137 - Re-run if needed~~
		22kΦ549-Φ1REI	↓		Mn only
		22LΦ570-Φ1	↓		
		BKLΦ656-DUP1	↓		
		↓ -MS1	↓		
		↓ -MSD1	↓		
		SEQ-IBL4			
		↓ -CCV3			
		↓ -CCB3			
		22LΦ571-Φ1	REN	5	
		↓ -Φ2	↓	↓	
		↓ -Φ3	↓		Zn↑ Zn NR
		↓ -Φ4	↓		
		22LΦ579-Φ1	↓		
		↓ -Φ2	↓		
		22LΦ571-Φ3REI	↓	5	Zn only
		22LΦ483-Φ1	↓		Gesh noisy-%R ok analytes OK Cu only
		22LΦ490-Φ1	↓		↓
		SEQ-IBL5			
		↓ -CCV4	↓		Ba 137, Tl ↑
		↓ -CCB4	↓		
	✓	↓ -CAL1	↓		Ag, Ba, Be, Co, Fe, Sb, Tl, V Removed
		↓ -CCV5	↓		
		↓ -CCB5	↓		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ529-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		BKLΦ575-BLK1	REN		
		↓ -BS1	↓		
		BKLΦ1Φ8-BLK2	DGT	10	
		22LΦ484-Φ1	REN		Cu only
		↓ -Φ2	↓		↓
		BKLΦ619-DUP2	↓		
		↓ -MS2	↓		
		SEQ-IBL6			
		↓ -CCV6			
		↓ -CCB6			
		22KΦ4Φ3-Φ1RE1	DGT	10	
		↓ -Φ2RE1	↓	↓	
		-Φ3RE1			
		-Φ4RE1			
		-Φ5RE1			
		-Φ6RE1			
		-Φ7RE1			
		-Φ8RE1			
		↓ -Φ9RE1	↓	↓	
		SEQ-IBL7			
		↓ -CCV7			
		↓ -CCB7			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	22LΦ199-12	SWN	20	As↑
		-13			
		-14			
		-15			
		-11			
		BKLΦ529-DUP1			
		-MS1			
		-MSD1			
		-PS1			
		SEQ-IBL8			
		-CCV8			
		-CCB8			
	✓	22LΦ199-16	SWN	20	As↑
		-17			
		-18			
		-19			
		-2Φ			
	✓	-21			As almost↑
		-22			
		-23			
		-36			
		SEQ-IBL9			
		-CCV9			
		-CCB9			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22L0199-37	SWN	20	
		-38			ScT - Not Needed
		-39			
		-40			
		-41			
		-42			
		22L0234-01	REN		Cr, Cu, Ni only
		-02			
		22L0205-01		2	
		SEQ-IBLA			
		-CCVA			PbT - Not Needed
		-CCBA			
	✓	-CAL1			
		-CCVB			PbT
		-CCBB			
		22L0219-01	REN	100	Cu, Ni only
		22L0152-02RE1		50	Mn only
		BKL0431-DUP3			
		-MS3			MnSTL
		-MSD3			
		22L0152-02		5	MnT Cd, Cr, Mo only / Mn NR
		BKL0431-DUP4			
		-MS4			
		-MSD4			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLB			
		-CCVC			Pb↑
		-CCBC			
		22LΦ324-Φ2	REN		Cu, Zn only
		-Φ3			
		-Φ4			
		-Φ6			
		-Φ5		2	
		22LΦ187-Φ4		5	
		-Φ2			
		BKLΦ575-DUP1			
		-MS1			
		SEQ-IBLC			(Cr53↑)
		-CCVD			
		-CCBD			
		BKLΦ481-BLK1	REN		
		-BS1			
		BKLΦ558-BLK1			
		-BS1			
		22LΦ149-ΦIRE1		10	Zn only
		-Φ1		2	Zn↑ Cr, Cu, Ni only / Zn NR
		22LΦ213-Φ1			Cr, Cu, Ni, Zn only
		22LΦ495-Φ2			Cu, Zn only
		22LΦ139-Φ1			Cd noisy No Cd

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLD			
		-CCVE			
		-CCBE			
	✓	-CAL1			
		-CCVF			
		-CCBF			
		BKLΦ618-BLK1	REN		
		-BS1			
		22LΦ249-Φ4			
		-Φ2			
		BKLΦ618-DUP1			
		-MS1			
		SEQ-IBLE			(Cr53↑)
		22LΦ181-Φ6	REN	2	
		-Φ8			
		SEQ-IBLF			
		-CCVG			
		-CCBG			
		22LΦ146-Φ4	REN		Sc↑ - Not Needed
		-Φ5			
		SEQ-IBLG			
		22LΦ181-Φ2	REN		
		-1Φ			
		-Φ4			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/28/22 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ481-DUP1	REN		
		↓ -MS1	↓		
		↓ -MSD1	↓		
		SEQ-IBLH			
		↓ -CCVH			P6↑ - Not Needed
		↓ -CCBH			
		22LΦ146-Φ3	REN		Sc↑ No Mn
		BKLΦ558-DUP1	↓		↓ ↓
		↓ -MS1	↓		
		↓ -MSD1	↓		
		SEQ-IBLI			
		22LΦ314-Φ2	REN	5	
		↓ -Φ1	↓	↓	
		SEQ-IBLJ			
		↓ -CCVI			P6↑ - Not Needed
		↓ -CCBI			
		Rinse/DI			
			MB 12/28/22		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, December 28, 2022 12:59:04
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14407
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	3546.6	3546.574	106.092	3.0	Standard
	In	114.9	57885.3	57885.341	1137.777	2.0	Standard
	U	238.1	60859.6	60859.568	1630.106	2.7	Standard
⌈	CeO	155.9	2181.2	0.024	0.000	1.8	Standard
| >	Ce	139.9	92053.2	92053.200	1932.473	2.1	Standard
⌊	Ce++	70.0	677.9	0.007	0.000	5.8	Standard
	Bkgd	220.0	31.6	31.600	8.098	25.6	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1650.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, December 28, 2022 13:07:55
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14414
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5818.1	5818.118	120.335	2.1	Standard
	In	114.9	63007.1	63007.059	816.890	1.3	Standard
	U	238.1	82560.6	82560.620	421.711	0.5	Standard
⌈	CeO	155.9	2133.6	0.022	0.001	3.1	Standard
| >	Ce	139.9	97903.1	97903.119	1413.101	1.4	Standard
⌊	Ce++	70.0	626.2	0.006	0.000	2.6	Standard
	Bkgd	220.0	73.4	73.400	42.398	57.8	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1650.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 12/28/2022 12:59:01 PM
End Time: 12/28/2022 1:09:59 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 3546.57
Obtained Intensity (In 115): 57885.34
Obtained Intensity (U 238): 60859.57
Obtained Intensity (Bkgd 220): 31.60 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=677.88 / 92053.20)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=2181.17 / 92053.20)
Obtained RSD (Be 9): 0.0299
Obtained RSD (In 115): 0.0197
Obtained RSD (U 238): 0.0268

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.38 mm	0.95 mm	60444.60

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.9
Obtained Intensity (In 115): 60963.80
Obtained Formula (CeO 156 / Ce 140): 0.0225 (=2225.17 / 98752.14)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.706)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -13.15

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -13.14

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 5818.12
Obtained Intensity (In 115): 63007.06
Obtained Intensity (U 238): 82560.62
Obtained Intensity (Bkgd 220): 73.40 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=626.21 / 97903.12)
Obtained Formula (CeO 156 / Ce 140): 0.022 (=2133.63 / 97903.12)
Obtained RSD (Be 9): 0.0207
Obtained RSD (In 115): 0.0130
Obtained RSD (U 238): 0.0051

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 12/28/2022 12:59:01 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 3546.57
		Obtained Intensity (In 115): 57885.34
		Obtained Intensity (U 238): 60859.57
		Obtained Intensity (Bkgd 220): 31.60 - <Target not achieved>
		Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=677.88 / 92053.20)
		Obtained Formula (CeO 156 / Ce 140): 0.024 (=2181.17 / 92053.20)
		Obtained RSD (Be 9): 0.0299
		Obtained RSD (In 115): 0.0197
		Obtained RSD (U 238): 0.0268

		[Failed]
[Failed]

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	-0.38 mm	0.95 mm	60444.60

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.9/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 60963.80
		Obtained Formula (CeO 156 / Ce 140): 0.0225 (=2225.17 / 98752.14)
[Passed] Optimum value(s): 0.9

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.741) - <Target not achieved>
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.708)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.694)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.711)
		[Failed]
	Retry 1
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.713)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.706)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.706)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.997; Intercept = -13.15

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-14	24517
		Mg	24	41	-14.5	36069.5
		In	115	41	-11	66281.4
		Ce	140	41	-11	99154.9
		Pb	208	41	-12	39410.3
		U	238	41	-5	90244.1

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.999; Intercept = -13.14

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-13.5	15800.7
		Mg	24	41	-14	42314.6
		In	115	41	-11.5	95824.3
		Ce	140	41	-11	103461
		Pb	208	41	-10.5	38395.5

```
            U       238        41     -10.5        82304.4

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 5818.12
                Obtained Intensity (In 115): 63007.06
                Obtained Intensity (U 238): 82560.62
                Obtained Intensity (Bkgd 220): 73.40 - <Target not achieved>
                Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=626.21 / 97903.12)
                Obtained Formula (CeO 156 / Ce 140): 0.022 (=2133.63 / 97903.12)
                Obtained RSD (Be 9): 0.0207
                Obtained RSD (In 115): 0.0130
                Obtained RSD (U 238): 0.0051

                [Failed]
[Failed]

End Time: 12/28/2022 1:09:59 PM
```

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, December 28, 2022 13:21:37
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14416
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5908.7	5908.689	80.334	1.4	Standard
	In	114.9	64186.1	64186.089	779.670	1.2	Standard
	U	238.1	83782.0	83782.032	342.782	0.4	Standard
⌈	CeO	155.9	2116.8	0.021	0.001	2.4	Standard
| >	Ce	139.9	99411.2	99411.241	760.044	0.8	Standard
⌊	Ce++	70.0	645.9	0.006	0.000	2.1	Standard
	Bkgd	220.0	3.4	3.400	2.800	82.4	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1650.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 12/28/2022 1:21:36 PM
End Time: 12/28/2022 1:23:41 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 5908.69
Obtained Intensity (In 115): 64186.09
Obtained Intensity (U 238): 83782.03
Obtained Intensity (Bkgd 220): 3.40
Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=645.95 / 99411.24)
Obtained Formula (CeO 156 / Ce 140): 0.021 (=2116.76 / 99411.24)
Obtained RSD (Be 9): 0.0136
Obtained RSD (In 115): 0.0121
Obtained RSD (U 238): 0.0041

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 12/28/2022 1:21:36 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 5908.69
		Obtained Intensity (In 115): 64186.09
		Obtained Intensity (U 238): 83782.03
		Obtained Intensity (Bkgd 220): 3.40
		Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=645.95 / 99411.24)
		Obtained Formula (CeO 156 / Ce 140): 0.021 (=2116.76 / 99411.24)
		Obtained RSD (Be 9): 0.0136
		Obtained RSD (In 115): 0.0121
		Obtained RSD (U 238): 0.0041

[Passed] Optimum value(s): N/A

End Time: 12/28/2022 1:23:41 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 12/28/2022 1:26:45 PM
End Time: 12/28/2022 1:31:59 PM

Detector Voltages - [Passed]
Pulse Stage Voltage - [Passed] Optimum value(s): 1600
Analog Stage Voltage - [Passed] Optimum value(s): -1562
Pulse Stage Voltage (Fine-tune) - [Passed] Optimum value(s): 1600

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 12/28/2022 1:26:45 PM

Detector Voltages
	Pulse Stage Voltage Optimization Settings:
		Method: Pulse Stage Optimization.mth.
			Initial Try - Start/End/Step: 800/1300/50.
			Retry 1 - Start/End/Step: 800/1800/50.
		Optimization Criterion (Pulse 76): 0.1

	Analog Stage Voltage Optimization Settings:
		Method: Analog Stage Optimization.mth.
		Initial Try - Start/End: -1300/-1900.
		Retry 1 - Start/End: -1300/-2400.
		Optimization Criterion (Analog 80): Target Gain 10000

	Pulse Stage Voltage Results:
	Initial Try

		[Failed]
	Retry 1

		Intensity Obtained For Criterion (Pulse 76): 69684.54
[Passed] Optimum value(s): 1600
	Analog Stage Voltage Results:
	Initial Try
		Interim Gain Values: 11670 (-1600V), 6602.44 (-1450V), 8557.76 (-1525V), 10106 (-1562.5V)
		Analyte: Analog 80
		ACEM(volts): -1562
		Achieved Gain: 10106
		Achieved NMax: 1.23883e+009
		Conversion Factor: 0.103323
		Passes: 4
		Points Collected: 31
		Points Used: 3
		Coefficient: 0.999995
[Passed] Optimum value(s): -1562
	Pulse Stage Voltage (Fine-tune) Results:
	Initial Try

		[Failed]
	Retry 1

		Intensity Obtained For Criterion (Pulse 76): 70482.44
[Passed] Optimum value(s): 1600

End Time: 12/28/2022 1:31:59 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 12/28/2022 1:36:00 PM
End Time: 12/28/2022 1:43:30 PM

Dual Detector Calibration
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 12/28/2022 1:36:00 PM

Dual Detector Calibration
Optimization Settings:
Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
Initial Try - Start/End/Step: -20/0/0.05.

Optimization Results:
Initial Try
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 12/28/2022 1:43:30 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 12/28/2022 1:44:22 PM
End Time: 12/28/2022 1:51:52 PM

Dual Detector Calibration
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 12/28/2022 1:44:22 PM

Dual Detector Calibration
Optimization Settings:
Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
Initial Try - Start/End/Step: -20/0/0.05.

Optimization Results:
Initial Try
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 12/28/2022 1:51:52 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, December 28, 2022 14:05:24
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14429
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5602.6	5602.565	48.341	0.9	Standard
	In	114.9	59268.6	59268.577	808.080	1.4	Standard
	U	238.1	74876.8	74876.802	842.531	1.1	Standard
⎡	CeO	155.9	1950.1	0.021	0.000	2.1	Standard
⎢>	Ce	139.9	93066.5	93066.517	842.519	0.9	Standard
⎣	Ce++	70.0	627.9	0.007	0.000	4.0	Standard
	Bkgd	220.0	0.5	0.500	0.236	47.1	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1600.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 12/28/2022 2:05:23 PM
End Time: 12/28/2022 2:07:28 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 5602.57
Obtained Intensity (In 115): 59268.58
Obtained Intensity (U 238): 74876.80
Obtained Intensity (Bkgd 220): 0.50
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=627.95 / 93066.52)
Obtained Formula (CeO 156 / Ce 140): 0.021 (=1950.13 / 93066.52)

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 12/28/2022 2:05:23 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 10
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 5602.57
Obtained Intensity (In 115): 59268.58
Obtained Intensity (U 238): 74876.80
Obtained Intensity (Bkgd 220): 0.50
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=627.95 / 93066.52)
Obtained Formula (CeO 156 / Ce 140): 0.021 (=1950.13 / 93066.52)

[Passed] Optimum value(s): N/A

End Time: 12/28/2022 2:07:28 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 14:51:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				360911	3	Standard
	Be	**9**		ug/L				8	44	Standard
	C	**13**		ug/L				26849	0	Standard
	Cl	**37**		ug/L				7127339	0	Standard
>	**Sc**	**45**		ug/L				395734	1	Standard
	V	**51**		ug/L				5501	2	Standard
	V-1	**51**		ug/L				816	2	Standard
	Cr	**52**		ug/L				16406	2	Standard
	Cr	**53**		ug/L				355	1	Standard
	Fe	**54**		ug/L				71417	1	Standard
	Fe	**57**		ug/L				27568	3	Standard
	Mn	**55**		ug/L				682	1	Standard
>	**Ge**	**72**		ug/L				28461	0	KED
	Co	**59**		ug/L				38	5	KED
	Ni	**60**		ug/L				5	57	KED
	Ni	**62**		ug/L				3	50	KED
	Cu	**63**		ug/L				38	19	KED
	Cu	**65**		ug/L				13	43	KED
	Zn	**66**		ug/L				12	17	KED
	Zn	**67**		ug/L				0	173	KED
	As	**75**		ug/L				3	41	KED
	Se	**78**		ug/L				12	40	KED
	Y	**89**		ug/L				225032	1	Standard
	Kr	**83**		ug/L				55	15	Standard
>	**In-1**	**115**		ug/L				6703	3	KED
	Mo	**98**		ug/L				8	31	KED
	Cd	**111**		ug/L				4	48	KED
	Cd	**114**		ug/L				4	49	KED
>	**In**	**115**		ug/L				284163	3	Standard
	Ag	**107**		ug/L				26	21	Standard
	Sb	**121**		ug/L				166	8	Standard
	Sb	**123**		ug/L				133	26	Standard
	Ba	**135**		ug/L				20	9	Standard
	Ba	**137**		ug/L				32	20	Standard
>	**Tb**	**159**		ug/L				618443	1	Standard
	Tl	**205**		ug/L				134	11	Standard
	Pb	**208**		ug/L				129	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 14:56:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	354853	0	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.007	3	8	939	4	Standard
	C	**13**		ug/L			26849	28984	2	Standard
	Cl	**37**		ug/L			7127339	7015920	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	387714	1	Standard
⎢	**V**	**51**	**0.200**	ug/L	0.004	2	5501	9610	0	Standard
⎢	**V-1**	**51**	**0.200**	ug/L	0.003	1	816	5076	0	Standard
⎢	**Cr**	**52**	**0.500**	ug/L	0.029	5	16406	25042	0	Standard
⎢	**Cr**	**53**	**0.500**	ug/L	0.023	4	355	1380	2	Standard
⎢	**Fe**	**54**	**36.000**	ug/L	1.039	2	71417	136379	1	Standard
⎢	**Fe**	**57**	**36.000**	ug/L	0.453	1	27568	54179	1	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.011	2	682	14225	1	Standard
⌈>	**Ge**	**72**		ug/L			28461	27896	0	KED
⎢	**Co**	**59**	**0.200**	ug/L	0.010	4	38	1064	5	KED
⎢	**Ni**	**60**	**0.500**	ug/L	0.027	5	5	737	6	KED
⎢	**Ni**	**62**	**0.500**	ug/L	0.007	1	3	125	1	KED
⎢	**Cu**	**63**	**0.500**	ug/L	0.015	2	38	2028	2	KED
⎢	**Cu**	**65**	**0.500**	ug/L	0.033	6	13	1044	5	KED
⎢	**Zn**	**66**	**6.000**	ug/L	0.093	1	12	3317	0	KED
⎢	**Zn**	**67**	**6.000**	ug/L	0.244	4	0	494	3	KED
⎢	**As**	**75**	**0.200**	ug/L	0.023	11	3	65	11	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.088	17	12	25	8	KED
	Y	**89**		ug/L			225032	221560	2	Standard
	Kr	**83**		ug/L			55	62	22	Standard
⌈>	**In-1**	**115**		ug/L			6703	6423	1	KED
⎢	**Mo**	**98**	**0.200**	ug/L	0.002	1	8	275	0	KED
⎢	**Cd**	**111**	**0.100**	ug/L	0.003	3	4	31	3	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.017	16	4	81	16	KED
⌈>	**In**	**115**		ug/L			284163	279316	1	Standard
⎢	**Ag**	**107**	**0.200**	ug/L	0.005	2	26	3075	1	Standard
⎢	**Sb**	**121**	**0.200**	ug/L	0.012	6	166	2721	5	Standard
⎢	**Sb**	**123**	**0.200**	ug/L	0.003	1	133	2151	0	Standard
⎢	**Ba**	**135**	**0.500**	ug/L	0.028	5	20	2354	5	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.020	4	32	4514	2	Standard
⌈>	**Tb**	**159**		ug/L			618443	613856	1	Standard
⎢	**Tl**	**205**	**0.200**	ug/L	0.001	0	134	8086	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.001	1	129	5796	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:01:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	353145	2	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.102	1	8	46482	1	Standard
	C	**13**		ug/L			26849	35505	2	Standard
	Cl	**37**		ug/L			7127339	6864597	0	Standard
⌈>	**Sc**	**45**		ug/L			395734	380585	2	Standard
⌈	**V**	**51**	**10.000**	ug/L	0.109	1	5501	218915	1	Standard
⌊	**V-1**	**51**	**10.000**	ug/L	0.146	1	816	216428	0	Standard
⌈	**Cr**	**52**	**10.001**	ug/L	0.246	2	16406	197394	0	Standard
⌊	**Cr**	**53**	**10.001**	ug/L	0.399	3	355	21510	1	Standard
⌈	**Fe**	**54**	**1000.063**	ug/L	42.907	4	71417	1971851	3	Standard
⌊	**Fe**	**57**	**999.996**	ug/L	12.095	1	27568	765028	2	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.294	2	682	265528	0	Standard
⌈>	**Ge**	**72**		ug/L			28461	27573	1	KED
⌈	**Co**	**59**	**10.000**	ug/L	0.167	1	38	45872	0	KED
⌊	**Ni**	**60**	**9.999**	ug/L	0.242	2	5	13843	0	KED
⌈	**Ni**	**62**	**9.999**	ug/L	0.257	2	3	2332	0	KED
⌊	**Cu**	**63**	**10.001**	ug/L	0.256	2	38	40694	2	KED
⌈	**Cu**	**65**	**10.000**	ug/L	0.236	2	13	20621	2	KED
⌊	**Zn**	**66**	**9.931**	ug/L	0.267	2	12	5317	2	KED
⌈	**Zn**	**67**	**10.186**	ug/L	0.139	1	0	874	3	KED
⌊	**As**	**75**	**10.000**	ug/L	0.239	2	3	2809	1	KED
⌊	**Se**	**78**	**10.001**	ug/L	0.709	7	12	271	5	KED
	Y	**89**		ug/L			225032	221994	2	Standard
	Kr	**83**		ug/L			55	64	37	Standard
⌈>	**In-1**	**115**		ug/L			6703	6315	0	KED
⌈	**Mo**	**98**	**10.000**	ug/L	0.223	2	8	13392	2	KED
⌊	**Cd**	**111**	**10.000**	ug/L	0.351	3	4	2859	3	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.207	2	4	7412	1	KED
⌈>	**In**	**115**		ug/L			284163	278715	1	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.134	1	26	150277	1	Standard
⌈	**Sb**	**121**	**10.000**	ug/L	0.172	1	166	129651	1	Standard
⌊	**Sb**	**123**	**10.000**	ug/L	0.217	2	133	101662	1	Standard
⌈	**Ba**	**135**	**10.000**	ug/L	0.505	5	20	45852	3	Standard
⌊	**Ba**	**137**	**9.999**	ug/L	0.258	2	32	86797	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	621430	1	Standard
⌈	**Tl**	**205**	**10.000**	ug/L	0.354	3	134	401116	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.210	2	129	540085	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:06:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	350195	1	Standard
⌊	**Be**	**9**	**19.976**	ug/L	0.662	3	8	91626	2	Standard
	C	**13**		ug/L			26849	33908	1	Standard
	Cl	**37**		ug/L			7127339	6983997	0	Standard
⌈>	**Sc**	**45**		ug/L			395734	388489	2	Standard
⌈	**V**	**51**	**19.967**	ug/L	0.630	3	5501	437890	1	Standard
⌊	**V-1**	**51**	**19.951**	ug/L	0.604	3	816	435644	1	Standard
⌈	**Cr**	**52**	**19.977**	ug/L	0.521	2	16406	384715	1	Standard
⌊	**Cr**	**53**	**19.923**	ug/L	0.471	2	355	42754	0	Standard
⌈	**Fe**	**54**	**1994.790**	ug/L	42.843	2	71417	3905408	0	Standard
⌊	**Fe**	**57**	**2001.521**	ug/L	61.325	3	27568	1539923	1	Standard
⌊	**Mn**	**55**	**19.922**	ug/L	0.578	2	682	531022	1	Standard
⌈>	**Ge**	**72**		ug/L			28461	27073	0	KED
⌈	**Co**	**59**	**20.006**	ug/L	0.318	1	38	90196	0	KED
⌊	**Ni**	**60**	**19.996**	ug/L	0.409	2	5	27162	1	KED
⌈	**Ni**	**62**	**19.756**	ug/L	0.551	2	3	4312	3	KED
⌈	**Cu**	**63**	**19.852**	ug/L	0.115	0	38	77021	1	KED
⌊	**Cu**	**65**	**19.981**	ug/L	0.564	2	13	40287	2	KED
⌈	**Zn**	**66**	**19.783**	ug/L	0.403	2	12	10068	1	KED
⌊	**Zn**	**67**	**20.035**	ug/L	0.705	3	0	1697	2	KED
⌈	**As**	**75**	**19.986**	ug/L	0.113	0	3	5495	1	KED
⌊	**Se**	**78**	**20.068**	ug/L	0.695	3	12	529	2	KED
	Y	**89**		ug/L			225032	221384	0	Standard
	Kr	**83**		ug/L			55	53	18	Standard
⌈>	**In-1**	**115**		ug/L			6703	6237	0	KED
⌈	**Mo**	**98**	**20.068**	ug/L	0.631	3	8	26900	2	KED
⌈	**Cd**	**111**	**20.017**	ug/L	0.158	0	4	5667	0	KED
⌊	**Cd**	**114**	**19.936**	ug/L	0.249	1	4	14405	1	KED
⌈>	**In**	**115**		ug/L			284163	277172	2	Standard
⌈	**Ag**	**107**	**20.103**	ug/L	0.844	4	26	306495	1	Standard
⌈	**Sb**	**121**	**19.964**	ug/L	0.583	2	166	255295	0	Standard
⌊	**Sb**	**123**	**20.039**	ug/L	0.388	1	133	204013	1	Standard
⌈	**Ba**	**135**	**20.113**	ug/L	0.998	4	20	93779	2	Standard
⌊	**Ba**	**137**	**20.038**	ug/L	0.217	1	32	174266	2	Standard
⌈>	**Tb**	**159**		ug/L			618443	623757	1	Standard
⌈	**Tl**	**205**	**20.012**	ug/L	0.556	2	134	807582	1	Standard
⌊	**Pb**	**208**	**19.971**	ug/L	0.418	2	129	1076407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:12:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	345043	1	Standard
	Be	**9**	**50.341**	ug/L	1.086	2	8	235548	1	Standard
	C	**13**		ug/L			26849	32699	2	Standard
	Cl	**37**		ug/L			7127339	7267771	0	Standard
>	**Sc**	**45**		ug/L			395734	392871	1	Standard
	V	**51**	**50.190**	ug/L	0.948	1	5501	1126472	1	Standard
	V-1	**51**	**50.237**	ug/L	1.230	2	816	1135276	1	Standard
	Cr	**52**	**50.125**	ug/L	0.401	0	16406	963790	1	Standard
	Cr	**53**	**50.280**	ug/L	1.018	2	355	111723	1	Standard
	Fe	**54**	**5006.824**	ug/L	46.046	0	71417	9875122	0	Standard
	Fe	**57**	**5029.635**	ug/L	31.829	0	27568	3990957	1	Standard
	Mn	**55**	**50.113**	ug/L	0.763	1	682	1365592	0	Standard
>	**Ge**	**72**		ug/L			28461	26210	1	KED
	Co	**59**	**50.510**	ug/L	0.906	1	38	232231	1	KED
	Ni	**60**	**50.416**	ug/L	0.807	1	5	69172	0	KED
	Ni	**62**	**50.532**	ug/L	1.079	2	3	11270	1	KED
	Cu	**63**	**50.431**	ug/L	0.385	0	38	197874	0	KED
	Cu	**65**	**50.378**	ug/L	0.493	0	13	102185	0	KED
	Zn	**66**	**50.233**	ug/L	1.041	2	12	25281	1	KED
	Zn	**67**	**50.149**	ug/L	1.484	2	0	4170	3	KED
	As	**75**	**50.511**	ug/L	0.828	1	3	14161	1	KED
	Se	**78**	**50.105**	ug/L	0.798	1	12	1275	1	KED
	Y	**89**		ug/L			225032	225703	2	Standard
	Kr	**83**		ug/L			55	52	16	Standard
>	**In-1**	**115**		ug/L			6703	6122	2	KED
	Mo	**98**	**50.350**	ug/L	0.835	1	8	68631	0	KED
	Cd	**111**	**50.378**	ug/L	1.446	2	4	14538	0	KED
	Cd	**114**	**50.357**	ug/L	1.272	2	4	37027	2	KED
>	**In**	**115**		ug/L			284163	274039	1	Standard
	Ag	**107**	**50.241**	ug/L	0.952	1	26	776466	0	Standard
	Sb	**121**	**50.353**	ug/L	0.854	1	166	659970	1	Standard
	Sb	**123**	**50.189**	ug/L	0.887	1	133	514791	0	Standard
	Ba	**135**	**50.129**	ug/L	0.410	0	20	234286	1	Standard
	Ba	**137**	**50.110**	ug/L	1.121	2	32	435591	1	Standard
>	**Tb**	**159**		ug/L			618443	630748	1	Standard
	Tl	**205**	**49.860**	ug/L	0.954	1	134	2006638	1	Standard
	Pb	**208**	**49.972**	ug/L	0.747	1	129	2716011	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:19:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	345422	3	Standard
	Be	**9**	**99.329**	ug/L	5.194	5	8	454642	2	Standard
	C	**13**		ug/L			26849	32684	2	Standard
	Cl	**37**		ug/L			7127339	7633976	2	Standard
>	**Sc**	**45**		ug/L			395734	392968	0	Standard
	V	**51**	**99.601**	ug/L	1.235	1	5501	2201686	1	Standard
	V-1	**51**	**99.649**	ug/L	0.220	0	816	2225919	0	Standard
	Cr	**52**	**99.153**	ug/L	2.672	2	16406	1839597	2	Standard
	Cr	**53**	**99.330**	ug/L	0.893	0	355	215624	0	Standard
	Fe	**54**	**9948.197**	ug/L	147.014	1	71417	19227219	1	Standard
	Fe	**57**	**9912.850**	ug/L	172.395	1	27568	7620426	2	Standard
	Mn	**55**	**99.588**	ug/L	1.270	1	682	2677209	0	Standard
>	**Ge**	**72**		ug/L			28461	27098	0	KED
	Co	**59**	**99.018**	ug/L	1.104	1	38	455792	1	KED
	Ni	**60**	**98.820**	ug/L	1.524	1	5	134876	1	KED
	Ni	**62**	**98.560**	ug/L	0.806	0	3	21685	0	KED
	Cu	**63**	**98.518**	ug/L	0.566	0	38	380814	0	KED
	Cu	**65**	**97.993**	ug/L	0.573	0	13	192613	0	KED
	Zn	**66**	**99.002**	ug/L	0.686	0	12	49869	1	KED
	Zn	**67**	**99.243**	ug/L	1.658	1	0	8325	2	KED
	As	**75**	**99.058**	ug/L	1.235	1	3	27839	1	KED
	Se	**78**	**99.689**	ug/L	1.821	1	12	2584	2	KED
	Y	**89**		ug/L			225032	223160	1	Standard
	Kr	**83**		ug/L			55	67	18	Standard
>	**In-1**	**115**		ug/L			6703	6080	1	KED
	Mo	**98**	**100.108**	ug/L	1.499	1	8	136029	0	KED
	Cd	**111**	**99.785**	ug/L	0.803	0	4	28405	1	KED
	Cd	**114**	**99.659**	ug/L	0.213	0	4	71973	1	KED
>	**In**	**115**		ug/L			284163	271463	0	Standard
	Ag	**107**	**98.817**	ug/L	1.131	1	26	1455563	0	Standard
	Sb	**121**	**99.165**	ug/L	1.102	1	166	1252699	1	Standard
	Sb	**123**	**99.241**	ug/L	0.461	0	133	983486	0	Standard
	Ba	**135**	**98.924**	ug/L	1.731	1	20	442122	2	Standard
	Ba	**137**	**98.473**	ug/L	0.120	0	32	806980	0	Standard
>	**Tb**	**159**		ug/L			618443	620397	0	Standard
	Tl	**205**	**98.710**	ug/L	2.438	2	134	3746624	2	Standard
	Pb	**208**	**98.730**	ug/L	1.901	1	129	5064045	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:27:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	360520	3	Standard
	Be	**9**	**0.000**	ug/L	0.000	73	8	10	10	Standard
	C	**13**		ug/L			26849	26642	1	Standard
	Cl	**37**		ug/L			7127339	7055890	0	Standard
>	**Sc**	**45**		ug/L			395734	388416	0	Standard
	V	**51**	**0.017**	ug/L	0.007	39	5501	5769	2	Standard
	V-1	**51**	**0.001**	ug/L	0.001	60	816	821	2	Standard
	Cr	**52**	**0.042**	ug/L	0.017	41	16406	16868	1	Standard
	Cr	**53**	**-0.012**	ug/L	0.008	68	355	323	5	Standard
	Fe	**54**	**0.630**	ug/L	0.703	111	71417	71298	2	Standard
	Fe	**57**	**0.540**	ug/L	0.570	105	27568	27468	1	Standard
	Mn	**55**	**0.001**	ug/L	0.000	24	682	700	0	Standard
>	**Ge**	**72**		ug/L			28461	27201	0	KED
	Co	**59**	**-0.000**	ug/L	0.003	6241	38	36	43	KED
	Ni	**60**	**0.002**	ug/L	0.003	129	5	8	53	KED
	Ni	**62**	**-0.011**	ug/L	0.005	46	3	1	86	KED
	Cu	**63**	**-0.003**	ug/L	0.003	112	38	26	42	KED
	Cu	**65**	**0.004**	ug/L	0.002	59	13	21	22	KED
	Zn	**66**	**0.027**	ug/L	0.026	96	12	26	51	KED
	Zn	**67**	**0.053**	ug/L	0.013	24	0	5	21	KED
	As	**75**	**0.004**	ug/L	0.003	67	3	4	16	KED
	Se	**78**	**0.046**	ug/L	0.084	185	12	13	16	KED
	Y	**89**		ug/L			225032	225079	1	Standard
	Kr	**83**		ug/L			55	59	9	Standard
>	**In-1**	**115**		ug/L			6703	6346	2	KED
	Mo	**98**	**0.008**	ug/L	0.004	48	8	18	26	KED
	Cd	**111**	**-0.001**	ug/L	0.005	332	4	3	41	KED
	Cd	**114**	**0.000**	ug/L	0.002	646	4	4	27	KED
>	**In**	**115**		ug/L			284163	282834	2	Standard
	Ag	**107**	**0.002**	ug/L	0.000	22	26	54	13	Standard
	Sb	**121**	**0.041**	ug/L	0.005	12	166	710	9	Standard
	Sb	**123**	**0.041**	ug/L	0.003	7	133	555	5	Standard
	Ba	**135**	**0.001**	ug/L	0.001	157	20	23	18	Standard
	Ba	**137**	**0.000**	ug/L	0.001	667	32	33	29	Standard
>	**Tb**	**159**		ug/L			618443	606399	1	Standard
	Tl	**205**	**0.003**	ug/L	0.000	9	134	236	4	Standard
	Pb	**208**	**0.001**	ug/L	0.001	44	129	189	13	Standard

Sample Information

Sample Date/Time: Wednesday, December 28, 2022 15:19:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**0.9999**	0.013	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
V	51	**1.0000**	0.056	0.20	10	20	50	100
V-1	51	**1.0000**	0.057	0.20	10	20	50	100
Cr	52	**0.9999**	0.047	0.50	10	20	50	100
Cr	53	**0.9999**	0.006	0.50	10	20	50	100
Fe	54	**1.0000**	0.005	36.00	1000	2000	5000	10000
Fe	57	**0.9999**	0.002	36.00	1000	2000	5000	10000
Mn	55	**1.0000**	0.068	0.50	10	20	50	100
Ge	72							
Co	59	**0.9998**	0.170	0.20	10	20	50	100
Ni	60	**0.9997**	0.050	0.50	10	20	50	100
Ni	62	**0.9996**	0.008	0.50	10	20	50	100
Cu	63	**0.9996**	0.143	0.50	10	20	50	100
Cu	65	**0.9993**	0.073	0.50	10	20	50	100
Zn	66	**0.9998**	0.019	6.00	10	20	50	100
Zn	67	**0.9999**	0.003	6.00	10	20	50	100
As	75	**0.9998**	0.010	0.20	10	20	50	100
Se	78	**1.0000**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Mo	98	**1.0000**	0.223	0.20	10	20	50	100
Cd	111	**1.0000**	0.047	0.10	10	20	50	100
Cd	114	**0.9999**	0.119	0.10	10	20	50	100
In	115							
Ag	107	**0.9998**	0.054	0.20	10	20	50	100
Sb	121	**0.9999**	0.047	0.20	10	20	50	100
Sb	123	**0.9999**	0.037	0.20	10	20	50	100
Ba	135	**0.9998**	0.016	0.50	10	20	50	100
Ba	137	**0.9996**	0.030	0.50	10	20	50	100
Tb	159							
Tl	205	**0.9997**	0.061	0.20	10	20	50	100
Pb	208	**0.9997**	0.083	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:42:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	359990	1	Standard
⌊	**Be**	**9**	**50.112**	ug/L	2.052	4	8	239186	2	Standard
	C	**13**		ug/L			26849	31191	1	Standard
	Cl	**37**		ug/L			7127339	7713038	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	415066	2	Standard
⌈	**V**	**51**	**49.963**	ug/L	0.275	0	5501	1169295	2	Standard
⌊	**V-1**	**51**	**49.611**	ug/L	0.597	1	816	1170698	1	Standard
⌈	**Cr**	**52**	**51.022**	ug/L	1.029	2	16406	1007867	1	Standard
⌊	**Cr**	**53**	**49.820**	ug/L	1.952	3	355	114337	1	Standard
⌈	**Fe**	**54**	**5030.629**	ug/L	78.716	1	71417	10304733	2	Standard
⌊	**Fe**	**57**	**4942.203**	ug/L	99.656	2	27568	4026895	2	Standard
⌊	**Mn**	**55**	**50.234**	ug/L	1.545	3	682	1426210	2	Standard
⌈>	**Ge**	**72**		ug/L			28461	28425	1	KED
⌈	**Co**	**59**	**50.657**	ug/L	0.535	1	38	244616	1	KED
⌈	**Ni**	**60**	**51.405**	ug/L	0.914	1	5	73590	0	KED
⌊	**Ni**	**62**	**51.509**	ug/L	0.650	1	3	11889	1	KED
⌈	**Cu**	**63**	**51.202**	ug/L	1.103	2	38	207622	2	KED
⌊	**Cu**	**65**	**52.179**	ug/L	0.653	1	13	107578	0	KED
⌈	**Zn**	**66**	**50.878**	ug/L	0.838	1	12	26886	0	KED
⌊	**Zn**	**67**	**49.340**	ug/L	0.576	1	0	4341	0	KED
⌈	**As**	**75**	**47.306**	ug/L	1.330	2	3	13944	1	KED
⌊	**Se**	**78**	**78.860**	ug/L	1.579	2	12	2147	3	KED
	Y	**89**		ug/L			225032	236050	1	Standard
	Kr	**83**		ug/L			55	60	10	Standard
⌈>	**In-1**	**115**		ug/L			6703	6872	3	KED
⌈	**Mo**	**98**	**46.362**	ug/L	1.582	3	8	71158	0	KED
⌈	**Cd**	**111**	**48.483**	ug/L	1.499	3	4	15590	0	KED
⌊	**Cd**	**114**	**48.606**	ug/L	1.839	3	4	39643	1	KED
⌈>	**In**	**115**		ug/L			284163	289781	0	Standard
⌈	**Ag**	**107**	**51.754**	ug/L	1.521	2	26	813785	2	Standard
⌈	**Sb**	**121**	**49.896**	ug/L	0.063	0	166	672900	0	Standard
⌊	**Sb**	**123**	**49.892**	ug/L	0.664	1	133	527887	1	Standard
⌈	**Ba**	**135**	**50.446**	ug/L	1.988	3	20	240638	3	Standard
⌊	**Ba**	**137**	**50.697**	ug/L	0.408	0	32	443511	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	640571	1	Standard
⌈	**Tl**	**205**	**52.073**	ug/L	1.412	2	134	2040652	2	Standard
⌊	**Pb**	**208**	**52.464**	ug/L	0.601	1	129	2778347	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:50:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	384305	0	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.002	1390	8	10	88	Standard
	C	**13**		ug/L			26849	26806	1	Standard
	Cl	**37**		ug/L			7127339	7240290	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	413367	0	Standard
⌈	**V**	**51**	**0.006**	ug/L	0.004	75	5501	5875	1	Standard
⌊	**V-1**	**51**	**-0.005**	ug/L	0.001	27	816	739	4	Standard
⌈	**Cr**	**52**	**0.001**	ug/L	0.016	1180	16406	17163	1	Standard
⌊	**Cr**	**53**	**-0.033**	ug/L	0.008	24	355	297	6	Standard
⌈	**Fe**	**54**	**-0.869**	ug/L	1.189	136	71417	72831	2	Standard
⌊	**Fe**	**57**	**-1.672**	ug/L	0.414	24	27568	27449	0	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	128	682	698	2	Standard
⌈>	**Ge**	**72**		ug/L			28461	27998	1	KED
⌈	**Co**	**59**	**-0.001**	ug/L	0.001	94	38	32	15	KED
⌊	**Ni**	**60**	**0.001**	ug/L	0.002	450	5	5	57	KED
⌈	**Ni**	**62**	**0.000**	ug/L	0.000	118	3	3	0	KED
⌈	**Cu**	**63**	**-0.002**	ug/L	0.003	145	38	31	34	KED
⌊	**Cu**	**65**	**0.002**	ug/L	0.002	88	13	18	23	KED
⌈	**Zn**	**66**	**0.006**	ug/L	0.005	79	12	15	18	KED
⌊	**Zn**	**67**	**0.058**	ug/L	0.057	97	0	5	88	KED
⌈	**As**	**75**	**0.005**	ug/L	0.008	155	3	4	47	KED
⌊	**Se**	**78**	**0.192**	ug/L	0.081	42	12	17	13	KED
	Y	**89**		ug/L			225032	233601	0	Standard
	Kr	**83**		ug/L			55	54	12	Standard
⌈>	**In-1**	**115**		ug/L			6703	6517	2	KED
⌈	**Mo**	**98**	**0.001**	ug/L	0.001	135	8	9	21	KED
⌈	**Cd**	**111**	**0.001**	ug/L	0.006	463	4	4	44	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	80	4	1	108	KED
⌈>	**In**	**115**		ug/L			284163	295168	0	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	35	26	41	11	Standard
⌈	**Sb**	**121**	**0.013**	ug/L	0.003	23	166	351	11	Standard
⌊	**Sb**	**123**	**0.012**	ug/L	0.004	31	133	268	15	Standard
⌈	**Ba**	**135**	**-0.000**	ug/L	0.001	3116	20	21	22	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	162	32	37	16	Standard
⌈>	**Tb**	**159**		ug/L			618443	641431	1	Standard
⌈	**Tl**	**205**	**0.000**	ug/L	0.000	90	134	147	6	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	273	129	146	22	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 15:58:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			360911	360978	3	Standard
⎣	**Be**	**9**	**49.658**	ug/L	1.831	3	8	237626	1	Standard
	C	**13**		ug/L			26849	33397	4	Standard
	Cl	**37**		ug/L			7127339	7630385	1	Standard
⎡>	**Sc**	**45**		ug/L			395734	409528	1	Standard
⎢	**V**	**51**	**51.064**	ug/L	0.838	1	5501	1179119	2	Standard
⎢	**V-1**	**51**	**50.834**	ug/L	0.651	1	816	1183746	1	Standard
⎢	**Cr**	**52**	**51.272**	ug/L	0.880	1	16406	999405	1	Standard
⎢	**Cr**	**53**	**50.505**	ug/L	1.155	2	355	114412	0	Standard
⎢	**Fe**	**54**	**5059.393**	ug/L	50.870	1	71417	10225503	0	Standard
⎢	**Fe**	**57**	**5045.325**	ug/L	169.009	3	27568	4054689	2	Standard
⎣	**Mn**	**55**	**50.480**	ug/L	0.852	1	682	1414449	0	Standard
⎡>	**Ge**	**72**		ug/L			28461	28026	0	KED
⎢	**Co**	**59**	**50.931**	ug/L	0.426	0	38	242491	1	KED
⎢	**Ni**	**60**	**50.962**	ug/L	0.877	1	5	71950	2	KED
⎢	**Ni**	**62**	**51.175**	ug/L	1.422	2	3	11646	2	KED
⎢	**Cu**	**63**	**51.273**	ug/L	0.688	1	38	204991	0	KED
⎢	**Cu**	**65**	**52.445**	ug/L	0.731	1	13	106623	1	KED
⎢	**Zn**	**66**	**51.074**	ug/L	0.462	0	12	26613	0	KED
⎢	**Zn**	**67**	**52.102**	ug/L	0.522	1	0	4520	1	KED
⎢	**As**	**75**	**50.947**	ug/L	0.493	0	3	14809	0	KED
⎣	**Se**	**78**	**50.351**	ug/L	0.438	0	12	1356	0	KED
	Y	**89**		ug/L			225032	226505	1	Standard
	Kr	**83**		ug/L			55	54	14	Standard
⎡>	**In-1**	**115**		ug/L			6703	6648	1	KED
⎢	**Mo**	**98**	**49.314**	ug/L	0.550	1	8	73274	1	KED
⎢	**Cd**	**111**	**49.253**	ug/L	0.778	1	4	15330	0	KED
⎣	**Cd**	**114**	**49.586**	ug/L	0.873	1	4	39153	1	KED
⎡>	**In**	**115**		ug/L			284163	278147	3	Standard
⎢	**Ag**	**107**	**52.799**	ug/L	0.532	1	26	796769	2	Standard
⎢	**Sb**	**121**	**52.175**	ug/L	1.224	2	166	675172	2	Standard
⎢	**Sb**	**123**	**52.511**	ug/L	2.531	4	133	532752	1	Standard
⎢	**Ba**	**135**	**54.203**	ug/L	1.312	2	20	248102	1	Standard
⎣	**Ba**	**137**	**54.422**	ug/L	1.375	2	32	456767	1	Standard
⎡>	**Tb**	**159**		ug/L			618443	645781	1	Standard
⎢	**Tl**	**205**	**51.864**	ug/L	0.458	0	134	2049083	0	Standard
⎣	**Pb**	**208**	**51.933**	ug/L	0.696	1	129	2772643	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:06:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			360911	364614	2	Standard
⎣	**Be**	**9**	**-0.000**	ug/L	0.001	373	8	8	35	Standard
	C	**13**		ug/L			26849	27434	1	Standard
	Cl	**37**		ug/L			7127339	7174896	1	Standard
⎡>	**Sc**	**45**		ug/L			395734	392585	0	Standard
⎢	**V**	**51**	**0.008**	ug/L	0.003	34	5501	5629	1	Standard
⎢	**V-1**	**51**	**-0.004**	ug/L	0.002	38	816	720	4	Standard
⎢	**Cr**	**52**	**0.014**	ug/L	0.010	67	16406	16538	1	Standard
⎢	**Cr**	**53**	**-0.025**	ug/L	0.013	52	355	299	9	Standard
⎢	**Fe**	**54**	**0.389**	ug/L	0.742	190	71417	71598	1	Standard
⎢	**Fe**	**57**	**-1.234**	ug/L	1.132	91	27568	26405	3	Standard
⎣	**Mn**	**55**	**0.000**	ug/L	0.000	220	682	680	0	Standard
⎡>	**Ge**	**72**		ug/L			28461	27689	1	KED
⎢	**Co**	**59**	**-0.000**	ug/L	0.003	931	38	35	44	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.002	139	5	6	41	KED
⎢	**Ni**	**62**	**-0.002**	ug/L	0.010	445	3	3	69	KED
⎢	**Cu**	**63**	**0.004**	ug/L	0.003	91	38	52	24	KED
⎢	**Cu**	**65**	**0.000**	ug/L	0.003	543	13	14	37	KED
⎢	**Zn**	**66**	**0.016**	ug/L	0.015	94	12	20	35	KED
⎢	**Zn**	**67**	**0.030**	ug/L	0.025	85	0	3	69	KED
⎢	**As**	**75**	**0.001**	ug/L	0.003	222	3	3	25	KED
⎣	**Se**	**78**	**0.149**	ug/L	0.083	55	12	16	14	KED
	Y	**89**		ug/L			225032	221180	0	Standard
	Kr	**83**		ug/L			55	63	23	Standard
⎡>	**In-1**	**115**		ug/L			6703	6678	2	KED
⎢	**Mo**	**98**	**0.001**	ug/L	0.002	173	8	9	25	KED
⎢	**Cd**	**111**	**-0.010**	ug/L	0.003	31	4	0	100	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.006	624	4	5	93	KED
⎡>	**In**	**115**		ug/L			284163	286338	1	Standard
⎢	**Ag**	**107**	**0.001**	ug/L	0.000	41	26	41	14	Standard
⎢	**Sb**	**121**	**0.010**	ug/L	0.000	4	166	306	0	Standard
⎢	**Sb**	**123**	**0.009**	ug/L	0.002	22	133	233	10	Standard
⎢	**Ba**	**135**	**-0.000**	ug/L	0.001	286	20	19	30	Standard
⎣	**Ba**	**137**	**-0.000**	ug/L	0.001	258	32	30	16	Standard
⎡>	**Tb**	**159**		ug/L			618443	621118	0	Standard
⎢	**Tl**	**205**	**0.002**	ug/L	0.000	20	134	196	6	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	25	129	147	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:13:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	374551	1	Standard
⌊	**Be**	**9**	**0.195**	ug/L	0.007	3	8	975	1	Standard
	C	**13**		ug/L			26849	30432	2	Standard
	Cl	**37**		ug/L			7127339	7209625	0	Standard
⌈>	**Sc**	**45**		ug/L			395734	402515	2	Standard
⎢	**V**	**51**	**0.193**	ug/L	0.013	6	5501	9962	0	Standard
⎢	**V-1**	**51**	**0.183**	ug/L	0.004	2	816	5016	1	Standard
⎢	**Cr**	**52**	**0.496**	ug/L	0.048	9	16406	26027	1	Standard
⎢	**Cr**	**53**	**0.450**	ug/L	0.016	3	355	1359	0	Standard
⎢	**Fe**	**54**	**34.668**	ug/L	2.249	6	71417	140959	1	Standard
⎢	**Fe**	**57**	**34.310**	ug/L	0.606	1	27568	54965	2	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.012	2	682	14458	0	Standard
⌈>	**Ge**	**72**		ug/L			28461	28292	1	KED
⎢	**Co**	**59**	**0.200**	ug/L	0.006	2	38	1001	4	KED
⎢	**Ni**	**60**	**0.516**	ug/L	0.050	9	5	739	8	KED
⎢	**Ni**	**62**	**0.484**	ug/L	0.019	3	3	114	3	KED
⎢	**Cu**	**63**	**0.515**	ug/L	0.025	4	38	2117	5	KED
⎢	**Cu**	**65**	**0.506**	ug/L	0.005	1	13	1053	2	KED
⎢	**Zn**	**66**	**6.049**	ug/L	0.185	3	12	3193	3	KED
⎢	**Zn**	**67**	**5.713**	ug/L	0.169	2	0	500	3	KED
⎢	**As**	**75**	**0.193**	ug/L	0.008	4	3	60	2	KED
⌊	**Se**	**78**	**0.463**	ug/L	0.109	23	12	25	10	KED
	Y	**89**		ug/L			225032	227354	2	Standard
	Kr	**83**		ug/L			55	57	30	Standard
⌈>	**In-1**	**115**		ug/L			6703	6704	1	KED
⎢	**Mo**	**98**	**0.177**	ug/L	0.005	3	8	274	4	KED
⎢	**Cd**	**111**	**0.094**	ug/L	0.015	15	4	33	13	KED
⌊	**Cd**	**114**	**0.095**	ug/L	0.011	11	4	79	10	KED
⌈>	**In**	**115**		ug/L			284163	288682	0	Standard
⎢	**Ag**	**107**	**0.198**	ug/L	0.018	9	26	3126	9	Standard
⎢	**Sb**	**121**	**0.196**	ug/L	0.001	0	166	2801	0	Standard
⎢	**Sb**	**123**	**0.192**	ug/L	0.004	2	133	2154	1	Standard
⎢	**Ba**	**135**	**0.510**	ug/L	0.010	1	20	2443	2	Standard
⌊	**Ba**	**137**	**0.513**	ug/L	0.009	1	32	4499	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	626004	0	Standard
⎢	**Tl**	**205**	**0.211**	ug/L	0.003	1	134	8229	0	Standard
⌊	**Pb**	**208**	**0.112**	ug/L	0.001	1	129	5926	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:20:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	340697	1	Standard
	Be	**9**	**0.007**	ug/L	0.000	1	8	38		Standard
	C	**13**		ug/L			26849	119747	0	Standard
	Cl	**37**		ug/L			7127339	12487108	0	Standard
>	**Sc**	**45**		ug/L			395734	386250	1	Standard
	V	**51**	**0.060**	ug/L	0.029	47	5501	6674	9	Standard
	V-1	**51**	**2.570**	ug/L	0.038	1	816	57196	0	Standard
	Cr	**52**	**0.787**	ug/L	0.014	1	16406	30236	2	Standard
	Cr	**53**	**9.027**	ug/L	0.143	1	355	19573	0	Standard
	Fe	**54**	**18259.461**	ug/L	294.515	1	71417	34621609	0	Standard
	Fe	**57**	**17525.005**	ug/L	449.744	2	27568	13216556	0	Standard
	Mn	**55**	**0.072**	ug/L	0.003	3	682	2558	0	Standard
>	**Ge**	**72**		ug/L			28461	26318	2	KED
	Co	**59**	**0.022**	ug/L	0.006	25	38	132	19	KED
	Ni	**60**	**0.104**	ug/L	0.015	14	5	142	11	KED
	Ni	**62**	**0.126**	ug/L	0.057	45	3	30	39	KED
	Cu	**63**	**0.041**	ug/L	0.007	17	38	189	13	KED
	Cu	**65**	**0.049**	ug/L	0.011	21	13	106	19	KED
	Zn	**66**	**2.518**	ug/L	0.168	6	12	1243	7	KED
	Zn	**67**	**2.418**	ug/L	0.160	6	0	197	5	KED
	As	**75**	**0.031**	ug/L	0.009	27	3	11	22	KED
	Se	**78**	**0.100**	ug/L	0.101	101	12	14	16	KED
	Y	**89**		ug/L			225032	212248	0	Standard
	Kr	**83**		ug/L			55	62	27	Standard
>	**In-1**	**115**		ug/L			6703	6250	2	KED
	Mo	**98**	**370.264**	ug/L	6.393	1	8	517111	1	KED
	Cd	**111**	**0.082**	ug/L	0.030	36	4	27	29	KED
	Cd	**114**	**0.063**	ug/L	0.019	29	4	50	26	KED
>	**In**	**115**		ug/L			284163	271115	0	Standard
	Ag	**107**	**0.004**	ug/L	0.000	12	26	84	8	Standard
	Sb	**121**	**0.026**	ug/L	0.001	2	166	485	1	Standard
	Sb	**123**	**0.023**	ug/L	0.001	4	133	357	2	Standard
	Ba	**135**	**0.128**	ug/L	0.015	11	20	591	11	Standard
	Ba	**137**	**0.129**	ug/L	0.002	1	32	1083	0	Standard
>	**Tb**	**159**		ug/L			618443	692146	0	Standard
	Tl	**205**	**0.030**	ug/L	0.001	3	134	1423	2	Standard
	Pb	**208**	**0.040**	ug/L	0.001	2	129	2427	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:25:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	324805	1	Standard
	Be	**9**	**0.011**	ug/L	0.003	26	8	55	22	Standard
	C	**13**		ug/L			26849	116503	0	Standard
	Cl	**37**		ug/L			7127339	12190202	3	Standard
>	**Sc**	**45**		ug/L			395734	378561	1	Standard
	V	**51**	**-0.048**	ug/L	0.056	116	5501	4226	27	Standard
	V-1	**51**	**2.496**	ug/L	0.038	1	816	54459	0	Standard
	Cr	**52**	**20.366**	ug/L	0.352	1	16406	376394	0	Standard
	Cr	**53**	**27.906**	ug/L	0.293	1	355	58596	0	Standard
	Fe	**54**	**18040.739**	ug/L	276.107	1	71417	33527683	0	Standard
	Fe	**57**	**17687.677**	ug/L	353.087	1	27568	13075339	0	Standard
	Mn	**55**	**19.849**	ug/L	0.244	1	682	514503	0	Standard
>	**Ge**	**72**		ug/L			28461	25561	1	KED
	Co	**59**	**20.921**	ug/L	0.211	1	38	90860	0	KED
	Ni	**60**	**20.762**	ug/L	0.860	4	5	26727	3	KED
	Ni	**62**	**21.137**	ug/L	0.424	2	3	4389	1	KED
	Cu	**63**	**20.768**	ug/L	0.218	1	38	75756	1	KED
	Cu	**65**	**20.703**	ug/L	0.332	1	13	38391	0	KED
	Zn	**66**	**19.546**	ug/L	0.436	2	12	9295	1	KED
	Zn	**67**	**18.220**	ug/L	0.585	3	0	1442	4	KED
	As	**75**	**19.382**	ug/L	0.275	1	3	5139	0	KED
	Se	**78**	**0.022**	ug/L	0.056	255	12	12	12	KED
	Y	**89**		ug/L			225032	201776	0	Standard
	Kr	**83**		ug/L			55	57	14	Standard
>	**In-1**	**115**		ug/L			6703	5603	0	KED
	Mo	**98**	**406.614**	ug/L	9.351	2	8	509162	1	KED
	Cd	**111**	**19.887**	ug/L	0.158	0	4	5219	0	KED
	Cd	**114**	**20.204**	ug/L	0.343	1	4	13449	1	KED
>	**In**	**115**		ug/L			284163	267718	1	Standard
	Ag	**107**	**17.428**	ug/L	0.535	3	26	253148	2	Standard
	Sb	**121**	**0.031**	ug/L	0.004	11	166	548	7	Standard
	Sb	**123**	**0.035**	ug/L	0.005	14	133	465	9	Standard
	Ba	**135**	**0.138**	ug/L	0.010	7	20	626	7	Standard
	Ba	**137**	**0.135**	ug/L	0.004	3	32	1121	2	Standard
>	**Tb**	**159**		ug/L			618443	707072	2	Standard
	Tl	**205**	**0.018**	ug/L	0.001	7	134	910	4	Standard
	Pb	**208**	**0.035**	ug/L	0.001	1	129	2197	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:31:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			360911	332497	0	Standard
⎣	**Be**	**9**	**188.515**	ug/L	2.630	1	8	831471	1	Standard
	C	**13**		ug/L			26849	31110	1	Standard
	Cl	**37**		ug/L			7127339	7568346	0	Standard
⎡>	**Sc**	**45**		ug/L			395734	386048	2	Standard
⎢	**V**	**51**	**195.038**	ug/L	2.772	1	5501	4230534	2	Standard
⎢	**V-1**	**51**	**193.977**	ug/L	1.744	0	816	4256170	2	Standard
⎢	**Cr**	**52**	**195.733**	ug/L	2.504	1	16406	3551314	1	Standard
⎢	**Cr**	**53**	**192.209**	ug/L	3.489	1	355	409496	1	Standard
⎢	**Fe**	**54**	**18814.491**	ug/L	361.470	1	71417	35650440	0	Standard
⎢	**Fe**	**57**	**18628.146**	ug/L	336.336	1	27568	14040879	0	Standard
⎣	**Mn**	**55**	**197.391**	ug/L	3.465	1	682	5211461	1	Standard
⎡>	**Ge**	**72**		ug/L			28461	25272	1	KED
⎢	**Co**	**59**	**204.134**	ug/L	1.317	0	38	876309	1	KED
⎢	**Ni**	**60**	**204.668**	ug/L	4.087	1	5	260489	0	KED
⎢	**Ni**	**62**	**206.143**	ug/L	5.929	2	3	42293	2	KED
⎢	**Cu**	**63**	**202.301**	ug/L	3.272	1	38	729174	0	KED
⎢	**Cu**	**65**	**204.687**	ug/L	2.426	1	13	375215	1	KED
⎢	**Zn**	**66**	**195.169**	ug/L	0.959	0	12	91671	0	KED
⎢	**Zn**	**67**	**194.972**	ug/L	4.077	2	0	15251	1	KED
⎢	**As**	**75**	**196.885**	ug/L	2.605	1	3	51594	0	KED
⎣	**Se**	**78**	**186.518**	ug/L	5.577	2	12	4498	1	KED
	Y	**89**		ug/L			225032	214588	1	Standard
	Kr	**83**		ug/L			55	95	14	Standard
⎡>	**In-1**	**115**		ug/L			6703	5784	0	KED
⎢	**Mo**	**98**	**207.224**	ug/L	1.707	0	8	267871	0	KED
⎢	**Cd**	**111**	**197.023**	ug/L	1.434	0	4	53347	0	KED
⎣	**Cd**	**114**	**198.125**	ug/L	0.660	0	4	136103	0	KED
⎡>	**In**	**115**		ug/L			284163	264628	0	Standard
⎢	**Ag**	**107**	**188.452**	ug/L	1.889	1	26	2706047	0	Standard
⎢	**Sb**	**121**	**207.846**	ug/L	3.123	1	166	2559166	1	Standard
⎢	**Sb**	**123**	**199.981**	ug/L	1.601	0	133	1931854	1	Standard
⎢	**Ba**	**135**	**208.716**	ug/L	1.965	0	20	909276	1	Standard
⎣	**Ba**	**137**	**209.943**	ug/L	2.518	1	32	1677071	0	Standard
⎡>	**Tb**	**159**		ug/L			618443	664869	0	Standard
⎢	**Tl**	**205**	**202.293**	ug/L	2.333	1	134	8228590	0	Standard
⎣	**Pb**	**208**	**199.992**	ug/L	2.458	1	129	10993193	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:36:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	324247	0	Standard
⌊	**Be**	**9**	**279.521**	ug/L	3.823	1	8	1202220	0	Standard
	C	**13**		ug/L			26849	33808	2	Standard
	Cl	**37**		ug/L			7127339	7592289	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	394805	1	Standard
⌈	**V**	**51**	**289.765**	ug/L	7.356	2	5501	6423863	1	Standard
⌊	**V-1**	**51**	**287.300**	ug/L	5.866	2	816	6445296	1	Standard
⌈	**Cr**	**52**	**284.487**	ug/L	6.358	2	16406	5271445	1	Standard
⌊	**Cr**	**53**	**276.582**	ug/L	3.115	1	355	602527	0	Standard
⌈	**Fe**	**54**	**27143.361**	ug/L	848.743	3	71417	52568037	1	Standard
⌊	**Fe**	**57**	**27605.079**	ug/L	593.381	2	27568	21267354	1	Standard
⌈	**Mn**	**55**	**280.842**	ug/L	5.182	1	682	7583103	0	Standard
⌈>	**Ge**	**72**		ug/L			28461	25630	0	KED
⌈	**Co**	**59**	**291.120**	ug/L	4.993	1	38	1267306	1	KED
⌊	**Ni**	**60**	**290.668**	ug/L	4.274	1	5	375217	0	KED
⌈	**Ni**	**62**	**290.761**	ug/L	1.963	0	3	60501	0	KED
⌈	**Cu**	**63**	**282.984**	ug/L	1.530	0	38	1034531	0	KED
⌊	**Cu**	**65**	**290.081**	ug/L	1.266	0	13	539270	0	KED
⌈	**Zn**	**66**	**274.659**	ug/L	1.641	0	12	130839	1	KED
⌊	**Zn**	**67**	**271.569**	ug/L	2.527	0	0	21545	0	KED
⌈	**As**	**75**	**282.073**	ug/L	0.703	0	3	74971	0	KED
⌊	**Se**	**78**	**268.530**	ug/L	1.336	0	12	6565	0	KED
	Y	**89**		ug/L			225032	218342	0	Standard
	Kr	**83**		ug/L			55	167	10	Standard
⌈>	**In-1**	**115**		ug/L			6703	5688	1	KED
⌈	**Mo**	**98**	**303.556**	ug/L	3.508	1	8	385876	0	KED
⌈	**Cd**	**111**	**284.902**	ug/L	3.202	1	4	75859	0	KED
⌊	**Cd**	**114**	**290.558**	ug/L	3.883	1	4	196279	0	KED
⌈>	**In**	**115**		ug/L			284163	262765	1	Standard
⌈	**Ag**	**107**	**278.006**	ug/L	3.028	1	26	3963846	1	Standard
⌈	**Sb**	**121**	**302.297**	ug/L	3.287	1	166	3695748	1	Standard
⌊	**Sb**	**123**	**292.796**	ug/L	1.211	0	133	2808357	0	Standard
⌈	**Ba**	**135**	**286.853**	ug/L	4.982	1	20	1240703	0	Standard
⌊	**Ba**	**137**	**294.372**	ug/L	2.439	0	32	2335004	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	627789	0	Standard
⌈	**Tl**	**205**	**300.146**	ug/L	0.469	0	134	11528375	0	Standard
⌊	**Pb**	**208**	**301.310**	ug/L	2.966	0	129	15639320	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:44:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	364470	2	Standard
⌊	**Be**	**9**	**0.011**	ug/L	0.015	137	8	61	117	Standard
	C	**13**		ug/L			26849	29783	3	Standard
	Cl	**37**		ug/L			7127339	7278478	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	396511	1	Standard
⌈	**V**	**51**	**0.012**	ug/L	0.011	87	5501	5782	3	Standard
⌊	**V-1**	**51**	**0.021**	ug/L	0.015	69	816	1298	25	Standard
⌈	**Cr**	**52**	**0.017**	ug/L	0.014	83	16406	16751	0	Standard
⌊	**Cr**	**53**	**0.047**	ug/L	0.028	59	355	459	13	Standard
⌈	**Fe**	**54**	**-0.249**	ug/L	2.836	1136	71417	71047	7	Standard
⌊	**Fe**	**57**	**-3.245**	ug/L	2.502	77	27568	25103	6	Standard
⌈	**Mn**	**55**	**0.024**	ug/L	0.017	68	682	1343	33	Standard
⌈>	**Ge**	**72**		ug/L			28461	27200	0	KED
⌈	**Co**	**59**	**0.001**	ug/L	0.001	103	38	39	7	KED
⌊	**Ni**	**60**	**0.002**	ug/L	0.001	67	5	7	25	KED
⌈	**Ni**	**62**	**-0.002**	ug/L	0.010	458	3	3	69	KED
⌈	**Cu**	**63**	**0.008**	ug/L	0.003	30	38	69	13	KED
⌊	**Cu**	**65**	**0.012**	ug/L	0.003	25	13	37	15	KED
⌈	**Zn**	**66**	**0.058**	ug/L	0.013	22	12	41	16	KED
⌊	**Zn**	**67**	**0.068**	ug/L	0.052	76	0	6	69	KED
⌈	**As**	**75**	**0.008**	ug/L	0.003	33	3	5	14	KED
⌊	**Se**	**78**	**0.038**	ug/L	0.047	123	12	13	8	KED
	Y	**89**		ug/L			225032	217629	1	Standard
	Kr	**83**		ug/L			55	53	21	Standard
⌈>	**In-1**	**115**		ug/L			6703	6250	2	KED
⌈	**Mo**	**98**	**0.026**	ug/L	0.011	43	8	43	33	KED
⌈	**Cd**	**111**	**0.002**	ug/L	0.003	168	4	4	24	KED
⌊	**Cd**	**114**	**0.020**	ug/L	0.013	66	4	18	50	KED
⌈>	**In**	**115**		ug/L			284163	281295	0	Standard
⌈	**Ag**	**107**	**0.014**	ug/L	0.015	107	26	237	95	Standard
⌈	**Sb**	**121**	**0.108**	ug/L	0.023	21	166	1576	19	Standard
⌊	**Sb**	**123**	**0.107**	ug/L	0.021	19	133	1230	17	Standard
⌈	**Ba**	**135**	**0.019**	ug/L	0.011	57	20	109	47	Standard
⌊	**Ba**	**137**	**0.022**	ug/L	0.017	77	32	222	66	Standard
⌈>	**Tb**	**159**		ug/L			618443	639838	0	Standard
⌈	**Tl**	**205**	**0.031**	ug/L	0.018	56	134	1348	50	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.017	97	129	1046	84	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 16:51:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			360911	365464	2	Standard
⎣	**Be**	**9**	**-0.000**	ug/L	0.000	151	8	7	25	Standard
	C	**13**		ug/L			26849	30860	1	Standard
	Cl	**37**		ug/L			7127339	7253644	0	Standard
⎡>	**Sc**	**45**		ug/L			395734	393731	2	Standard
⎢	**V**	**51**	**0.007**	ug/L	0.004	58	5501	5619	1	Standard
⎢	**V-1**	**51**	**0.004**	ug/L	0.002	52	816	895	3	Standard
⎢	**Cr**	**52**	**0.005**	ug/L	0.012	259	16406	16404	0	Standard
⎢	**Cr**	**53**	**-0.005**	ug/L	0.013	260	355	342	7	Standard
⎢	**Fe**	**54**	**-1.622**	ug/L	0.427	26	71417	67919	1	Standard
⎢	**Fe**	**57**	**-3.838**	ug/L	0.481	12	27568	24479	1	Standard
⎣	**Mn**	**55**	**0.009**	ug/L	0.001	15	682	909	3	Standard
⎡>	**Ge**	**72**		ug/L			28461	27261	0	KED
⎢	**Co**	**59**	**0.001**	ug/L	0.000	24	38	40	2	KED
⎢	**Ni**	**60**	**0.002**	ug/L	0.004	171	5	8	70	KED
⎢	**Ni**	**62**	**0.004**	ug/L	0.005	136	3	4	24	KED
⎢	**Cu**	**63**	**0.007**	ug/L	0.002	23	38	64	10	KED
⎢	**Cu**	**65**	**0.013**	ug/L	0.001	4	13	39	2	KED
⎢	**Zn**	**66**	**0.065**	ug/L	0.021	32	12	45	23	KED
⎢	**Zn**	**67**	**0.068**	ug/L	0.057	83	0	6	75	KED
⎢	**As**	**75**	**0.005**	ug/L	0.006	122	3	4	36	KED
⎣	**Se**	**78**	**0.171**	ug/L	0.089	52	12	16	14	KED
	Y	**89**		ug/L			225032	219919	1	Standard
	Kr	**83**		ug/L			55	52	20	Standard
⎡>	**In-1**	**115**		ug/L			6703	6296	1	KED
⎢	**Mo**	**98**	**0.009**	ug/L	0.010	109	8	20	66	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.008	331	4	3	75	KED
⎣	**Cd**	**114**	**0.005**	ug/L	0.004	96	4	7	43	KED
⎡>	**In**	**115**		ug/L			284163	285232	2	Standard
⎢	**Ag**	**107**	**0.001**	ug/L	0.000	31	26	39	10	Standard
⎢	**Sb**	**121**	**0.036**	ug/L	0.005	13	166	640	7	Standard
⎢	**Sb**	**123**	**0.035**	ug/L	0.002	7	133	496	6	Standard
⎢	**Ba**	**135**	**0.013**	ug/L	0.003	24	20	83	19	Standard
⎣	**Ba**	**137**	**0.010**	ug/L	0.002	21	32	121	16	Standard
⎡>	**Tb**	**159**		ug/L			618443	645116	0	Standard
⎢	**Tl**	**205**	**0.008**	ug/L	0.001	14	134	448	9	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.000	10	129	325	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 16:56:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	343570	3	Standard
	Be	**9**	**50.031**	ug/L	1.726	3	8	227856	0	Standard
	C	**13**		ug/L			26849	32807	1	Standard
	Cl	**37**		ug/L			7127339	7547824	1	Standard
>	**Sc**	**45**		ug/L			395734	408429	0	Standard
	V	**51**	**49.066**	ug/L	0.723	1	5501	1130134	1	Standard
	V-1	**51**	**48.794**	ug/L	1.011	2	816	1133250	2	Standard
	Cr	**52**	**49.874**	ug/L	0.729	1	16406	970095	1	Standard
	Cr	**53**	**48.945**	ug/L	1.628	3	355	110617	3	Standard
	Fe	**54**	**4884.785**	ug/L	176.706	3	71417	9849911	3	Standard
	Fe	**57**	**4895.447**	ug/L	36.695	0	27568	3925688	0	Standard
	Mn	**55**	**48.982**	ug/L	0.744	1	682	1368948	1	Standard
>	**Ge**	**72**		ug/L			28461	26197	8	KED
	Co	**59**	**52.650**	ug/L	5.298	10	38	233024	1	KED
	Ni	**60**	**54.469**	ug/L	4.452	8	5	71553	0	KED
	Ni	**62**	**53.977**	ug/L	4.439	8	3	11431	0	KED
	Cu	**63**	**54.772**	ug/L	3.648	6	38	203957	2	KED
	Cu	**65**	**54.604**	ug/L	3.919	7	13	103357	1	KED
	Zn	**66**	**54.127**	ug/L	3.919	7	12	26259	1	KED
	Zn	**67**	**51.088**	ug/L	3.226	6	0	4129	2	KED
	As	**75**	**52.215**	ug/L	4.186	8	3	14125	0	KED
	Se	**78**	**50.834**	ug/L	4.346	8	12	1274	0	KED
	Y	**89**		ug/L			225032	222278	0	Standard
	Kr	**83**		ug/L			55	55	5	Standard
>	**In-1**	**115**		ug/L			6703	6072	2	KED
	Mo	**98**	**51.566**	ug/L	1.015	1	8	69961	1	KED
	Cd	**111**	**51.829**	ug/L	1.141	2	4	14729	0	KED
	Cd	**114**	**52.168**	ug/L	1.547	2	4	37604	0	KED
>	**In**	**115**		ug/L			284163	280962	0	Standard
	Ag	**107**	**50.201**	ug/L	0.443	0	26	765421	1	Standard
	Sb	**121**	**51.877**	ug/L	1.149	2	166	678289	2	Standard
	Sb	**123**	**51.131**	ug/L	0.709	1	133	524467	0	Standard
	Ba	**135**	**54.415**	ug/L	0.691	1	20	251691	0	Standard
	Ba	**137**	**55.112**	ug/L	1.085	1	32	467416	1	Standard
>	**Tb**	**159**		ug/L			618443	654653	2	Standard
	Tl	**205**	**53.658**	ug/L	1.051	1	134	2148712	1	Standard
	Pb	**208**	**53.546**	ug/L	1.024	1	129	2897515	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:04:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	352814	2	Standard
	Be	**9**	**49.574**	ug/L	1.355	2	8	231929	0	Standard
	C	**13**		ug/L			26849	31851	1	Standard
	Cl	**37**		ug/L			7127339	7628983	1	Standard
>	**Sc**	**45**		ug/L			395734	403626	1	Standard
	V	**51**	**48.676**	ug/L	0.337	0	5501	1108104	2	Standard
	V-1	**51**	**48.688**	ug/L	0.206	0	816	1117527	1	Standard
	Cr	**52**	**49.564**	ug/L	0.940	1	16406	952808	2	Standard
	Cr	**53**	**49.567**	ug/L	0.928	1	355	110680	0	Standard
	Fe	**54**	**4955.566**	ug/L	96.442	1	71417	9872440	1	Standard
	Fe	**57**	**4925.582**	ug/L	121.941	2	27568	3902507	1	Standard
	Mn	**55**	**49.534**	ug/L	0.784	1	682	1367920	0	Standard
>	**Ge**	**72**		ug/L			28461	27077	0	KED
	Co	**59**	**51.176**	ug/L	1.340	2	38	235402	2	KED
	Ni	**60**	**51.702**	ug/L	0.459	0	5	70520	1	KED
	Ni	**62**	**52.179**	ug/L	0.898	1	3	11474	2	KED
	Cu	**63**	**52.697**	ug/L	0.423	0	38	203566	1	KED
	Cu	**65**	**52.654**	ug/L	0.606	1	13	103427	1	KED
	Zn	**66**	**51.799**	ug/L	0.629	1	12	26077	1	KED
	Zn	**67**	**51.448**	ug/L	1.472	2	0	4313	3	KED
	As	**75**	**50.200**	ug/L	0.091	0	3	14098	0	KED
	Se	**78**	**50.447**	ug/L	0.730	1	12	1312	0	KED
	Y	**89**		ug/L			225032	223815	2	Standard
	Kr	**83**		ug/L			55	58	26	Standard
>	**In-1**	**115**		ug/L			6703	6175	2	KED
	Mo	**98**	**51.171**	ug/L	1.384	2	8	70605	1	KED
	Cd	**111**	**52.553**	ug/L	0.744	1	4	15192	1	KED
	Cd	**114**	**52.251**	ug/L	1.156	2	4	38314	0	KED
>	**In**	**115**		ug/L			284163	280253	1	Standard
	Ag	**107**	**50.362**	ug/L	0.849	1	26	765976	2	Standard
	Sb	**121**	**51.491**	ug/L	0.929	1	166	671461	0	Standard
	Sb	**123**	**51.334**	ug/L	0.788	1	133	525192	0	Standard
	Ba	**135**	**54.374**	ug/L	0.158	0	20	250885	1	Standard
	Ba	**137**	**55.301**	ug/L	1.444	2	32	467807	1	Standard
>	**Tb**	**159**		ug/L			618443	657335	2	Standard
	Tl	**205**	**53.100**	ug/L	0.746	1	134	2135219	0	Standard
	Pb	**208**	**52.501**	ug/L	1.439	2	129	2852369	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:12:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			360911	365163	1	Standard
⎣	**Be**	**9**	**0.001**	ug/L	0.001	182	8	12	52	Standard
	C	**13**		ug/L			26849	26728	1	Standard
	Cl	**37**		ug/L			7127339	7221380	0	Standard
⎡>	**Sc**	**45**		ug/L			395734	391178	0	Standard
⎢	**V**	**51**	**-0.001**	ug/L	0.007	707	5501	5417	3	Standard
⎢	**V-1**	**51**	**-0.005**	ug/L	0.001	21	816	702	3	Standard
⎢	**Cr**	**52**	**-0.006**	ug/L	0.019	326	16406	16110	2	Standard
⎢	**Cr**	**53**	**-0.018**	ug/L	0.007	39	355	312	4	Standard
⎢	**Fe**	**54**	**-1.330**	ug/L	0.584	43	71417	68048	2	Standard
⎢	**Fe**	**57**	**-1.663**	ug/L	0.775	46	27568	25983	2	Standard
⎣	**Mn**	**55**	**0.007**	ug/L	0.001	14	682	875	3	Standard
⎡>	**Ge**	**72**		ug/L			28461	26454	1	KED
⎢	**Co**	**59**	**-0.000**	ug/L	0.003	3348	38	34	32	KED
⎢	**Ni**	**60**	**0.002**	ug/L	0.002	127	5	6	41	KED
⎢	**Ni**	**62**	**-0.002**	ug/L	0.005	282	3	3	34	KED
⎢	**Cu**	**63**	**0.000**	ug/L	0.001	1681	38	36	9	KED
⎢	**Cu**	**65**	**0.001**	ug/L	0.004	750	13	13	55	KED
⎢	**Zn**	**66**	**0.007**	ug/L	0.007	100	12	15	21	KED
⎢	**Zn**	**67**	**0.024**	ug/L	0.027	113	0	2	86	KED
⎢	**As**	**75**	**0.006**	ug/L	0.005	88	3	4	29	KED
⎣	**Se**	**78**	**0.074**	ug/L	0.100	135	12	13	17	KED
	Y	**89**		ug/L			225032	218353	1	Standard
	Kr	**83**		ug/L			55	64	14	Standard
⎡>	**In-1**	**115**		ug/L			6703	6148	2	KED
⎢	**Mo**	**98**	**0.006**	ug/L	0.007	129	8	15	63	KED
⎢	**Cd**	**111**	**0.001**	ug/L	0.007	590	4	4	48	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.001	66	4	2	46	KED
⎡>	**In**	**115**		ug/L			284163	284386	0	Standard
⎢	**Ag**	**107**	**0.000**	ug/L	0.001	229	26	30	28	Standard
⎢	**Sb**	**121**	**0.020**	ug/L	0.002	8	166	426	4	Standard
⎢	**Sb**	**123**	**0.019**	ug/L	0.003	15	133	329	10	Standard
⎢	**Ba**	**135**	**-0.000**	ug/L	0.001	303	20	19	30	Standard
⎣	**Ba**	**137**	**0.001**	ug/L	0.001	201	32	38	32	Standard
⎡>	**Tb**	**159**		ug/L			618443	628004	0	Standard
⎢	**Tl**	**205**	**0.005**	ug/L	0.000	5	134	333	4	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	15	129	243	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0480-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:19:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			360911	372134	1	Standard
	Be	9	0.000	ug/L	0.000	526	8	9	20	Standard
	C	13		ug/L			26849	47239	1	Standard
	Cl	37		ug/L			7127339	7152264	1	Standard
>	Sc	45		ug/L			395734	407082	0	Standard
	V	51	0.003	ug/L	0.008	257	5501	5732	2	Standard
	V-1	51	-0.003	ug/L	0.001	36	816	778	2	Standard
	Cr	52	0.042	ug/L	0.010	22	16406	17676	0	Standard
	Cr	53	0.021	ug/L	0.028	131	355	413	15	Standard
	Fe	54	0.402	ug/L	0.377	93	71417	74264	0	Standard
	Fe	57	-2.361	ug/L	0.155	6	27568	26486	1	Standard
	Mn	55	0.056	ug/L	0.001	1	682	2262	1	Standard
>	Ge	72		ug/L			28461	27414	1	KED
	Co	59	-0.005	ug/L	0.002	36	38	12	74	KED
	Ni	60	0.008	ug/L	0.004	50	5	15	33	KED
	Ni	62	-0.005	ug/L	0.005	93	3	2	43	KED
	Cu	63	0.040	ug/L	0.004	11	38	191	8	KED
	Cu	65	0.040	ug/L	0.010	25	13	92	21	KED
	Zn	66	0.290	ug/L	0.017	5	12	160	5	KED
	Zn	67	0.315	ug/L	0.169	53	0	27	52	KED
	As	75	0.005	ug/L	0.006	121	3	4	36	KED
	Se	78	-0.026	ug/L	0.067	258	12	11	14	KED
	Y	89		ug/L			225032	220488	1	Standard
	Kr	83		ug/L			55	51	13	Standard
>	In-1	115		ug/L			6703	6241	0	KED
	Mo	98	0.010	ug/L	0.008	83	8	21	52	KED
	Cd	111	-0.007	ug/L	0.003	48	4	1	50	KED
	Cd	114	0.003	ug/L	0.005	209	4	5	67	KED
>	In	115		ug/L			284163	284027	1	Standard
	Ag	107	0.000	ug/L	0.001	109	26	33	21	Standard
	Sb	121	0.015	ug/L	0.003	16	166	368	8	Standard
	Sb	123	0.015	ug/L	0.001	6	133	285	1	Standard
	Ba	135	0.032	ug/L	0.004	13	20	168	10	Standard
	Ba	137	0.033	ug/L	0.001	4	32	319	4	Standard
>	Tb	159		ug/L			618443	639947	0	Standard
	Tl	205	0.001	ug/L	0.000	26	134	184	5	Standard
	Pb	208	0.008	ug/L	0.000	5	129	546	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0480-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:24:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			360911	370877	1	Standard
⌊	Be	9	23.991	ug/L	0.626	2	8	118057	3	Standard
	C	13		ug/L			26849	48174	2	Standard
	Cl	37		ug/L			7127339	7139972	1	Standard
⌈>	Sc	45		ug/L			395734	409199	0	Standard
⌈	V	51	24.624	ug/L	0.116	0	5501	571076	0	Standard
⌊	V-1	51	24.611	ug/L	0.134	0	816	573084	0	Standard
⌈	Cr	52	24.942	ug/L	0.155	0	16406	494535	0	Standard
⌊	Cr	53	24.884	ug/L	0.319	1	355	56524	1	Standard
⌈	Fe	54	0.866	ug/L	0.707	81	71417	75586	2	Standard
⌊	Fe	57	-2.853	ug/L	1.327	46	27568	26231	4	Standard
⌊	Mn	55	27.939	ug/L	0.364	1	682	782613	1	Standard
⌈>	Ge	72		ug/L			28461	26397	1	KED
⌈	Co	59	26.588	ug/L	0.305	1	38	119254	2	KED
⌊	Ni	60	27.251	ug/L	0.446	1	5	36237	2	KED
⌈	Ni	62	26.969	ug/L	0.617	2	3	5782	2	KED
⌈	Cu	63	27.990	ug/L	0.687	2	38	105400	1	KED
⌊	Cu	65	28.125	ug/L	0.627	2	13	53847	0	KED
⌈	Zn	66	85.777	ug/L	2.887	3	12	42077	2	KED
⌊	Zn	67	80.639	ug/L	1.327	1	0	6589	2	KED
⌈	As	75	25.438	ug/L	0.650	2	3	6964	0	KED
⌊	Se	78	79.751	ug/L	1.865	2	12	2016	0	KED
	Y	89		ug/L			225032	222130	2	Standard
	Kr	83		ug/L			55	52	5	Standard
⌈>	In-1	115		ug/L			6703	5921	1	KED
⌈	Mo	98	26.112	ug/L	0.423	1	8	34554	0	KED
⌈	Cd	111	26.534	ug/L	0.263	0	4	7357	1	KED
⌊	Cd	114	26.211	ug/L	0.758	2	4	18430	1	KED
⌈>	In	115		ug/L			284163	283916	0	Standard
⌈	Ag	107	25.829	ug/L	0.543	2	26	397945	2	Standard
⌈	Sb	121	26.436	ug/L	0.149	0	166	349376	0	Standard
⌊	Sb	123	26.953	ug/L	0.259	0	133	279454	1	Standard
⌈	Ba	135	28.078	ug/L	0.375	1	20	131249	0	Standard
⌊	Ba	137	28.697	ug/L	0.737	2	32	245983	2	Standard
⌈>	Tb	159		ug/L			618443	645214	1	Standard
⌈	Tl	205	28.371	ug/L	0.316	1	134	1120038	1	Standard
⌊	Pb	208	28.372	ug/L	0.565	1	129	1513595	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0656-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:30:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			360911	369502	1	Standard
⌊	Be	9	-0.000	ug/L	0.000	130	8	7	25	Standard
	C	13		ug/L			26849	36701	3	Standard
	Cl	37		ug/L			7127339	7120419	1	Standard
⌈>	Sc	45		ug/L			395734	398566	0	Standard
⌈	V	51	0.002	ug/L	0.004	229	5501	5579	1	Standard
⌊	V-1	51	-0.006	ug/L	0.001	19	816	688	3	Standard
⌈	Cr	52	0.036	ug/L	0.011	29	16406	17193	1	Standard
⌊	Cr	53	0.010	ug/L	0.008	83	355	379	4	Standard
⌈	Fe	54	-0.033	ug/L	0.336	1002	71417	71864	1	Standard
⌊	Fe	57	-1.440	ug/L	0.390	27	27568	26647	0	Standard
⌊	Mn	55	0.032	ug/L	0.001	4	682	1558	2	Standard
⌈>	Ge	72		ug/L			28461	26930	1	KED
⌈	Co	59	-0.007	ug/L	0.000	6	38	5	43	KED
⌊	Ni	60	0.008	ug/L	0.002	20	5	15	12	KED
⌈	Ni	62	0.016	ug/L	0.018	118	3	6	56	KED
⌊	Cu	63	0.012	ug/L	0.004	32	38	81	16	KED
⌈	Cu	65	0.010	ug/L	0.003	25	13	33	17	KED
⌊	Zn	66	0.136	ug/L	0.042	30	12	80	24	KED
⌈	Zn	67	0.161	ug/L	0.117	72	0	13	68	KED
⌊	As	75	0.005	ug/L	0.004	85	3	4	26	KED
⌊	Se	78	0.029	ug/L	0.107	371	12	12	19	KED
	Y	89		ug/L			225032	220978	1	Standard
	Kr	83		ug/L			55	62	15	Standard
⌈>	In-1	115		ug/L			6703	6289	2	KED
⌈	Mo	98	-0.001	ug/L	0.004	561	8	6	85	KED
⌊	Cd	111	0.002	ug/L	0.010	492	4	4	65	KED
⌊	Cd	114	0.004	ug/L	0.005	113	4	7	51	KED
⌈>	In	115		ug/L			284163	280226	1	Standard
⌈	Ag	107	0.001	ug/L	0.000	62	26	35	17	Standard
⌊	Sb	121	0.003	ug/L	0.001	20	166	200	2	Standard
⌈	Sb	123	0.002	ug/L	0.002	114	133	150	13	Standard
⌊	Ba	135	0.013	ug/L	0.001	10	20	82	8	Standard
⌊	Ba	137	0.017	ug/L	0.002	11	32	179	10	Standard
⌈>	Tb	159		ug/L			618443	633924	0	Standard
⌈	Tl	205	0.000	ug/L	0.000	74	134	154	8	Standard
⌊	Pb	208	0.004	ug/L	0.000	5	129	329	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0656-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:35:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			360911	349254	1	Standard
	Be	9	25.309	ug/L	1.088	4	8	117263	4	Standard
	C	13		ug/L			26849	38529	1	Standard
	Cl	37		ug/L			7127339	7493321	0	Standard
>	Sc	45		ug/L			395734	406098	1	Standard
	V	51	24.705	ug/L	0.147	0	5501	568633	1	Standard
	V-1	51	24.586	ug/L	0.061	0	816	568167	1	Standard
	Cr	52	25.069	ug/L	0.452	1	16406	493170	1	Standard
	Cr	53	24.660	ug/L	0.900	3	355	55579	2	Standard
	Fe	54	5003.681	ug/L	106.249	2	71417	10028745	1	Standard
	Fe	57	4909.990	ug/L	15.169	0	27568	3914882	1	Standard
	Mn	55	24.976	ug/L	0.930	3	682	694242	2	Standard
>	Ge	72		ug/L			28461	26575	2	KED
	Co	59	25.937	ug/L	0.409	1	38	117085	0	KED
	Ni	60	26.415	ug/L	0.309	1	5	35356	1	KED
	Ni	62	25.730	ug/L	0.564	2	3	5553	1	KED
	Cu	63	26.437	ug/L	0.921	3	38	100193	1	KED
	Cu	65	26.334	ug/L	0.928	3	13	50748	1	KED
	Zn	66	82.446	ug/L	2.833	3	12	40709	1	KED
	Zn	67	78.981	ug/L	2.277	2	0	6495	1	KED
	As	75	25.191	ug/L	0.324	1	3	6944	0	KED
	Se	78	79.512	ug/L	1.303	1	12	2023	1	KED
	Y	89		ug/L			225032	222795	0	Standard
	Kr	83		ug/L			55	64	8	Standard
>	In-1	115		ug/L			6703	6047	1	KED
	Mo	98	0.006	ug/L	0.007	118	8	16	64	KED
	Cd	111	25.481	ug/L	0.755	2	4	7214	1	KED
	Cd	114	25.113	ug/L	0.111	0	4	18040	1	KED
>	In	115		ug/L			284163	279883	1	Standard
	Ag	107	24.950	ug/L	0.164	0	26	378927	1	Standard
	Sb	121	0.004	ug/L	0.003	61	166	219	16	Standard
	Sb	123	0.002	ug/L	0.002	122	133	149	14	Standard
	Ba	135	27.821	ug/L	0.211	0	20	128194	1	Standard
	Ba	137	28.045	ug/L	0.551	1	32	236923	0	Standard
>	Tb	159		ug/L			618443	646798	0	Standard
	Tl	205	27.137	ug/L	0.328	1	134	1074001	1	Standard
	Pb	208	27.653	ug/L	0.304	1	129	1478904	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0549-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:41:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			360911	369869	2	Standard
[	**Be**	**9**	**0.003**	ug/L	0.002	59	8	22	35	Standard
	C	**13**		ug/L			26849	42792	2	Standard
	Cl	**37**		ug/L			7127339	7110944	0	Standard
[>	**Sc**	**45**		ug/L			395734	436450	0	Standard
[	**V**	**51**	**0.654**	ug/L	0.009	1	5501	22084	1	Standard
[	**V-1**	**51**	**0.672**	ug/L	0.004	0	816	17565	0	Standard
[	**Cr**	**52**	**0.464**	ug/L	0.024	5	16406	27567	1	Standard
[	**Cr**	**53**	**0.531**	ug/L	0.011	2	355	1669	1	Standard
[	**Fe**	**54**	**21.436**	ug/L	0.224	1	71417	124607	0	Standard
[	**Fe**	**57**	**29.100**	ug/L	0.428	1	27568	55161	0	Standard
[	**Mn**	**55**	**0.587**	ug/L	0.002	0	682	18282	0	Standard
[>	**Ge**	**72**		ug/L			28461	26868	0	KED
[	**Co**	**59**	**0.008**	ug/L	0.003	37	38	70	18	KED
[	**Ni**	**60**	**0.131**	ug/L	0.005	3	5	182	3	KED
[	**Ni**	**62**	**0.338**	ug/L	0.050	14	3	77	14	KED
[	**Cu**	**63**	**109.683**	ug/L	1.177	1	38	420376	1	KED
[	**Cu**	**65**	**112.442**	ug/L	1.124	0	13	219144	1	KED
[	**Zn**	**66**	**6.239**	ug/L	0.330	5	12	3126	5	KED
[	**Zn**	**67**	**5.762**	ug/L	0.713	12	0	480	12	KED
[	**As**	**75**	**0.041**	ug/L	0.005	13	3	14	10	KED
[	**Se**	**78**	**0.140**	ug/L	0.098	70	12	15	16	KED
	Y	**89**		ug/L			225032	219597	2	Standard
	Kr	**83**		ug/L			55	50	24	Standard
[>	**In-1**	**115**		ug/L			6703	6219	1	KED
[	**Mo**	**98**	**0.052**	ug/L	0.018	33	8	80	31	KED
[	**Cd**	**111**	**-0.003**	ug/L	0.006	173	4	2	57	KED
[	**Cd**	**114**	**-0.000**	ug/L	0.006	2927	4	3	105	KED
[>	**In**	**115**		ug/L			284163	281648	1	Standard
[	**Ag**	**107**	**0.008**	ug/L	0.002	28	26	147	22	Standard
[	**Sb**	**121**	**0.010**	ug/L	0.002	17	166	289	7	Standard
[	**Sb**	**123**	**0.011**	ug/L	0.002	16	133	246	7	Standard
[	**Ba**	**135**	**0.143**	ug/L	0.004	2	20	684	3	Standard
[	**Ba**	**137**	**0.147**	ug/L	0.006	4	32	1278	3	Standard
[>	**Tb**	**159**		ug/L			618443	657565	0	Standard
[	**Tl**	**205**	**0.002**	ug/L	0.001	59	134	211	19	Standard
[	**Pb**	**208**	**0.234**	ug/L	0.004	1	129	12877	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0570-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:46:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			360911	366919	2	Standard
⌊	Be	9	-0.001	ug/L	0.000	52	8	5	33	Standard
	C	13		ug/L			26849	38021	0	Standard
	Cl	37		ug/L			7127339	9078679	0	Standard
⌈>	Sc	45		ug/L			395734	386837	1	Standard
⌈	V	51	0.042	ug/L	0.004	10	5501	6293	1	Standard
⌊	V-1	51	1.472	ug/L	0.012	0	816	33145	2	Standard
⌈	Cr	52	1.031	ug/L	0.027	2	16406	34689	1	Standard
⌊	Cr	53	5.699	ug/L	0.027	0	355	12507	1	Standard
⌈	Fe	54	10.869	ug/L	0.229	2	71417	90417	1	Standard
⌊	Fe	57	10.416	ug/L	1.097	10	27568	34803	2	Standard
⌊	Mn	55	1.479	ug/L	0.019	1	682	39784	0	Standard
⌈>	Ge	72		ug/L			28461	26021	0	KED
⌈	Co	59	0.006	ug/L	0.001	10	38	59	4	KED
⌈	Ni	60	0.694	ug/L	0.011	1	5	914	1	KED
⌊	Ni	62	0.759	ug/L	0.068	8	3	163	8	KED
⌈	Cu	63	0.190	ug/L	0.008	4	38	741	4	KED
⌊	Cu	65	0.199	ug/L	0.014	6	13	388	6	KED
⌈	Zn	66	9.143	ug/L	0.165	1	12	4433	1	KED
⌊	Zn	67	8.614	ug/L	0.484	5	0	694	6	KED
⌈	As	75	0.242	ug/L	0.034	14	3	68	14	KED
⌊	Se	78	0.517	ug/L	0.196	38	12	24	20	KED
	Y	89		ug/L			225032	218694	2	Standard
	Kr	83		ug/L			55	54	13	Standard
⌈>	In-1	115		ug/L			6703	5980	4	KED
⌈	Mo	98	20.514	ug/L	0.934	4	8	27386	0	KED
⌈	Cd	111	0.000	ug/L	0.003	754	4	3	25	KED
⌊	Cd	114	0.007	ug/L	0.001	20	4	8	11	KED
⌈>	In	115		ug/L			284163	275635	2	Standard
⌈	Ag	107	0.001	ug/L	0.001	64	26	40	24	Standard
⌈	Sb	121	0.164	ug/L	0.006	3	166	2268	1	Standard
⌊	Sb	123	0.170	ug/L	0.005	3	133	1834	1	Standard
⌈	Ba	135	8.147	ug/L	0.263	3	20	36969	1	Standard
⌊	Ba	137	8.458	ug/L	0.364	4	32	70358	2	Standard
⌈>	Tb	159		ug/L			618443	636215	0	Standard
⌈	Tl	205	0.005	ug/L	0.000	6	134	349	3	Standard
⌊	Pb	208	0.017	ug/L	0.001	6	129	1005	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0656-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:51:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			360911	352372	2	Standard
⌊	Be	9	-0.000	ug/L	0.001	288	8	7	43	Standard
	C	13		ug/L			26849	38723	2	Standard
	Cl	37		ug/L			7127339	9112123	1	Standard
⌈>	Sc	45		ug/L			395734	384364	1	Standard
⌈	V	51	0.046	ug/L	0.021	45	5501	6336	6	Standard
⌊	V-1	51	1.521	ug/L	0.033	2	816	34013	1	Standard
⌈	Cr	52	1.016	ug/L	0.056	5	16406	34202	2	Standard
⌊	Cr	53	5.836	ug/L	0.107	1	355	12715	1	Standard
⌈	Fe	54	9.422	ug/L	1.103	11	71417	87103	2	Standard
⌊	Fe	57	10.915	ug/L	1.309	11	27568	34947	1	Standard
⌊	Mn	55	1.483	ug/L	0.014	0	682	39656	0	Standard
⌈>	Ge	72		ug/L			28461	25888	1	KED
⌈	Co	59	-0.003	ug/L	0.003	98	38	23	48	KED
⌊	Ni	60	0.667	ug/L	0.042	6	5	874	7	KED
⌈	Ni	62	0.687	ug/L	0.058	8	3	147	8	KED
⌊	Cu	63	0.173	ug/L	0.010	5	38	674	4	KED
⌈	Cu	65	0.180	ug/L	0.011	6	13	351	5	KED
⌊	Zn	66	8.656	ug/L	0.203	2	12	4175	2	KED
⌈	Zn	67	8.743	ug/L	0.375	4	0	700	3	KED
⌊	As	75	0.233	ug/L	0.013	5	3	65	4	KED
⌊	Se	78	0.382	ug/L	0.118	30	12	21	12	KED
	Y	89		ug/L			225032	216255	1	Standard
	Kr	83		ug/L			55	56	12	Standard
⌈>	In-1	115		ug/L			6703	5942	2	KED
⌈	Mo	98	20.038	ug/L	0.623	3	8	26606	1	KED
⌊	Cd	111	0.007	ug/L	0.005	74	4	5	28	KED
⌊	Cd	114	0.009	ug/L	0.002	20	4	9	11	KED
⌈>	In	115		ug/L			284163	274490	0	Standard
⌈	Ag	107	0.000	ug/L	0.001	189	26	32	38	Standard
⌊	Sb	121	0.162	ug/L	0.002	1	166	2227	1	Standard
⌈	Sb	123	0.164	ug/L	0.007	4	133	1775	4	Standard
⌊	Ba	135	7.347	ug/L	0.068	0	20	33218	0	Standard
⌊	Ba	137	7.583	ug/L	0.194	2	32	62870	2	Standard
⌈>	Tb	159		ug/L			618443	645217	0	Standard
⌈	Tl	205	0.004	ug/L	0.000	9	134	307	5	Standard
⌊	Pb	208	0.019	ug/L	0.001	4	129	1156	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0656-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 17:56:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	345413	2	Standard
⌊	**Be**	**9**	**22.751**	ug/L	0.610	2	8	104233	2	Standard
	C	**13**		ug/L			26849	41057	2	Standard
	Cl	**37**		ug/L			7127339	9086018	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	397129	0	Standard
⌈	**V**	**51**	**23.873**	ug/L	0.308	1	5501	537485	0	Standard
⌊	**V-1**	**51**	**24.816**	ug/L	0.413	1	816	560792	1	Standard
⌈	**Cr**	**52**	**25.207**	ug/L	0.210	0	16406	484895	1	Standard
⌊	**Cr**	**53**	**28.258**	ug/L	0.183	0	355	62246	0	Standard
⌈	**Fe**	**54**	**4804.964**	ug/L	74.099	1	71417	9422056	1	Standard
⌊	**Fe**	**57**	**4740.894**	ug/L	9.394	0	27568	3697436	0	Standard
⌊	**Mn**	**55**	**25.511**	ug/L	0.234	0	682	693620	1	Standard
⌈>	**Ge**	**72**		ug/L			28461	25505	2	KED
⌈	**Co**	**59**	**25.358**	ug/L	0.339	1	38	109878	1	KED
⌈	**Ni**	**60**	**26.114**	ug/L	0.859	3	5	33537	1	KED
⌊	**Ni**	**62**	**26.226**	ug/L	0.858	3	3	5431	1	KED
⌈	**Cu**	**63**	**25.479**	ug/L	0.821	3	38	92687	1	KED
⌊	**Cu**	**65**	**25.799**	ug/L	0.306	1	13	47739	2	KED
⌈	**Zn**	**66**	**86.779**	ug/L	2.481	2	12	41129	1	KED
⌊	**Zn**	**67**	**82.701**	ug/L	1.038	1	0	6531	3	KED
⌈	**As**	**75**	**24.644**	ug/L	0.242	0	3	6520	1	KED
⌊	**Se**	**78**	**73.002**	ug/L	2.108	2	12	1783	1	KED
	Y	**89**		ug/L			225032	213996	0	Standard
	Kr	**83**		ug/L			55	70	16	Standard
⌈>	**In-1**	**115**		ug/L			6703	5804	2	KED
⌈	**Mo**	**98**	**20.079**	ug/L	0.906	4	8	26032	2	KED
⌈	**Cd**	**111**	**24.515**	ug/L	0.191	0	4	6663	1	KED
⌊	**Cd**	**114**	**24.204**	ug/L	0.469	1	4	16682	0	KED
⌈>	**In**	**115**		ug/L			284163	271491	2	Standard
⌈	**Ag**	**107**	**23.269**	ug/L	0.607	2	26	342666	0	Standard
⌈	**Sb**	**121**	**0.174**	ug/L	0.010	5	166	2355	5	Standard
⌊	**Sb**	**123**	**0.173**	ug/L	0.005	2	133	1839	3	Standard
⌈	**Ba**	**135**	**35.038**	ug/L	0.912	2	20	156553	1	Standard
⌊	**Ba**	**137**	**34.726**	ug/L	0.464	1	32	284575	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	647205	0	Standard
⌈	**Tl**	**205**	**25.478**	ug/L	0.361	1	134	1009022	1	Standard
⌊	**Pb**	**208**	**25.726**	ug/L	0.036	0	129	1376718	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0656-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:02:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			360911	341629	0	Standard
⌊	Be	9	24.254	ug/L	0.591	2	8	109923	2	Standard
	C	13		ug/L			26849	41181	0	Standard
	Cl	37		ug/L			7127339	9273655	1	Standard
⌈>	Sc	45		ug/L			395734	391535	2	Standard
⌈	V	51	25.709	ug/L	0.452	1	5501	570141	1	Standard
⌊	V-1	51	26.798	ug/L	0.523	1	816	596864	1	Standard
⌈	Cr	52	26.084	ug/L	0.552	2	16406	493962	0	Standard
⌊	Cr	53	29.657	ug/L	0.771	2	355	64363	0	Standard
⌈	Fe	54	4939.715	ug/L	77.065	1	71417	9545040	0	Standard
⌊	Fe	57	4898.732	ug/L	118.731	2	27568	3764335	0	Standard
⌊	Mn	55	26.538	ug/L	0.661	2	682	711027	0	Standard
⌈>	Ge	72		ug/L			28461	25564	1	KED
⌈	Co	59	26.047	ug/L	0.541	2	38	113116	1	KED
⌊	Ni	60	26.759	ug/L	0.496	1	5	34454	0	KED
⌈	Ni	62	26.793	ug/L	1.305	4	3	5561	3	KED
⌈	Cu	63	25.964	ug/L	0.373	1	38	94720	2	KED
⌊	Cu	65	26.208	ug/L	0.195	0	13	48603	0	KED
⌈	Zn	66	86.270	ug/L	1.457	1	12	40991	0	KED
⌊	Zn	67	82.540	ug/L	1.770	2	0	6531	0	KED
⌈	As	75	25.104	ug/L	0.193	0	3	6657	0	KED
⌊	Se	78	75.383	ug/L	1.199	1	12	1846	0	KED
	Y	89		ug/L			225032	218671	1	Standard
	Kr	83		ug/L			55	77	6	Standard
⌈>	In-1	115		ug/L			6703	5564	1	KED
⌈	Mo	98	21.006	ug/L	0.523	2	8	26123	1	KED
⌈	Cd	111	25.409	ug/L	0.258	1	4	6622	2	KED
⌊	Cd	114	25.497	ug/L	0.805	3	4	16847	1	KED
⌈>	In	115		ug/L			284163	275154	2	Standard
⌈	Ag	107	23.846	ug/L	0.438	1	26	355944	1	Standard
⌈	Sb	121	0.162	ug/L	0.004	2	166	2240	4	Standard
⌊	Sb	123	0.165	ug/L	0.005	2	133	1783	2	Standard
⌈	Ba	135	34.696	ug/L	1.334	3	20	157072	1	Standard
⌊	Ba	137	35.692	ug/L	1.374	3	32	296267	1	Standard
⌈>	Tb	159		ug/L			618443	657729	1	Standard
⌈	Tl	205	26.377	ug/L	0.233	0	134	1061453	1	Standard
⌊	Pb	208	26.417	ug/L	0.493	1	129	1436346	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:07:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			360911	355960	2	Standard
⎣	**Be**	**9**	**0.001**	ug/L	0.002	179	8	15	75	Standard
	C	**13**		ug/L			26849	28582	2	Standard
	Cl	**37**		ug/L			7127339	7221851	1	Standard
⎡>	**Sc**	**45**		ug/L			395734	389459	1	Standard
⎢	**V**	**51**	**0.016**	ug/L	0.005	32	5501	5760	0	Standard
⎢	**V-1**	**51**	**0.042**	ug/L	0.007	15	816	1726	6	Standard
⎢	**Cr**	**52**	**0.045**	ug/L	0.015	32	16406	16962	0	Standard
⎢	**Cr**	**53**	**0.129**	ug/L	0.024	18	355	626	7	Standard
⎢	**Fe**	**54**	**-0.638**	ug/L	0.866	135	71417	69053	1	Standard
⎢	**Fe**	**57**	**-1.140**	ug/L	0.337	29	27568	26263	0	Standard
⎣	**Mn**	**55**	**0.009**	ug/L	0.005	58	682	919	14	Standard
⎡>	**Ge**	**72**		ug/L			28461	26426	1	KED
⎢	**Co**	**59**	**0.001**	ug/L	0.002	274	38	39	28	KED
⎢	**Ni**	**60**	**0.043**	ug/L	0.004	8	5	62	7	KED
⎢	**Ni**	**62**	**0.046**	ug/L	0.019	40	3	13	28	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.004	172	38	45	34	KED
⎢	**Cu**	**65**	**0.007**	ug/L	0.005	67	13	26	34	KED
⎢	**Zn**	**66**	**0.043**	ug/L	0.011	25	12	33	17	KED
⎢	**Zn**	**67**	**0.032**	ug/L	0.028	86	0	3	69	KED
⎢	**As**	**75**	**0.003**	ug/L	0.003	83	3	4	17	KED
⎣	**Se**	**78**	**0.016**	ug/L	0.133	820	12	12	25	KED
	Y	**89**		ug/L			225032	219553	1	Standard
	Kr	**83**		ug/L			55	63	7	Standard
⎡>	**In-1**	**115**		ug/L			6703	5845	3	KED
⎢	**Mo**	**98**	**0.003**	ug/L	0.000	13	8	11	1	KED
⎢	**Cd**	**111**	**0.001**	ug/L	0.004	466	4	3	25	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.000	11	4	5	1	KED
⎡>	**In**	**115**		ug/L			284163	278254	1	Standard
⎢	**Ag**	**107**	**0.004**	ug/L	0.005	129	26	85	90	Standard
⎢	**Sb**	**121**	**-0.007**	ug/L	0.001	9	166	72	10	Standard
⎢	**Sb**	**123**	**-0.007**	ug/L	0.001	17	133	63	17	Standard
⎢	**Ba**	**135**	**0.004**	ug/L	0.001	38	20	37	17	Standard
⎣	**Ba**	**137**	**0.005**	ug/L	0.004	75	32	74	44	Standard
⎡>	**Tb**	**159**		ug/L			618443	638221	1	Standard
⎢	**Tl**	**205**	**0.012**	ug/L	0.005	40	134	600	31	Standard
⎣	**Pb**	**208**	**0.007**	ug/L	0.004	61	129	509	46	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:12:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	339627	1	Standard
⌊	**Be**	**9**	**50.935**	ug/L	1.926	3	8	229421	2	Standard
	C	**13**		ug/L			26849	31849	1	Standard
	Cl	**37**		ug/L			7127339	7588725	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	393920	1	Standard
⌈	**V**	**51**	**49.846**	ug/L	0.551	1	5501	1107265	1	Standard
⌊	**V-1**	**51**	**49.621**	ug/L	0.877	1	816	1111550	2	Standard
⌈	**Cr**	**52**	**51.094**	ug/L	1.133	2	16406	958029	1	Standard
⌊	**Cr**	**53**	**50.298**	ug/L	0.172	0	355	109627	1	Standard
⌈	**Fe**	**54**	**5101.497**	ug/L	86.816	1	71417	9916635	0	Standard
⌊	**Fe**	**57**	**4902.694**	ug/L	138.221	2	27568	3790939	1	Standard
⌊	**Mn**	**55**	**50.257**	ug/L	1.611	3	682	1354360	1	Standard
⌈>	**Ge**	**72**		ug/L			28461	26552	3	KED
⌈	**Co**	**59**	**51.319**	ug/L	1.664	3	38	231317	0	KED
⌊	**Ni**	**60**	**51.876**	ug/L	1.737	3	5	69334	1	KED
⌈	**Ni**	**62**	**51.681**	ug/L	0.989	1	3	11138	1	KED
⌈	**Cu**	**63**	**51.812**	ug/L	1.246	2	38	196158	1	KED
⌊	**Cu**	**65**	**52.805**	ug/L	1.532	2	13	101643	0	KED
⌈	**Zn**	**66**	**52.293**	ug/L	2.910	5	12	25784	2	KED
⌊	**Zn**	**67**	**52.072**	ug/L	1.495	2	0	4278	2	KED
⌈	**As**	**75**	**49.987**	ug/L	1.663	3	3	13756	1	KED
⌊	**Se**	**78**	**48.313**	ug/L	1.476	3	12	1232	0	KED
	Y	**89**		ug/L			225032	219180	1	Standard
	Kr	**83**		ug/L			55	68	12	Standard
⌈>	**In-1**	**115**		ug/L			6703	6010	1	KED
⌈	**Mo**	**98**	**50.629**	ug/L	0.832	1	8	68005	0	KED
⌈	**Cd**	**111**	**50.915**	ug/L	0.612	1	4	14328	1	KED
⌊	**Cd**	**114**	**50.821**	ug/L	0.608	1	4	36278	0	KED
⌈>	**In**	**115**		ug/L			284163	282181	2	Standard
⌈	**Ag**	**107**	**48.994**	ug/L	0.804	1	26	750189	2	Standard
⌈	**Sb**	**121**	**50.811**	ug/L	1.636	3	166	666921	1	Standard
⌊	**Sb**	**123**	**51.057**	ug/L	1.883	3	133	525682	1	Standard
⌈	**Ba**	**135**	**54.175**	ug/L	1.532	2	20	251555	0	Standard
⌊	**Ba**	**137**	**54.788**	ug/L	1.312	2	32	466627	2	Standard
⌈>	**Tb**	**159**		ug/L			618443	646454	1	Standard
⌈	**Tl**	**205**	**54.731**	ug/L	1.180	2	134	2164364	1	Standard
⌊	**Pb**	**208**	**53.799**	ug/L	1.043	1	129	2874853	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:21:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			360911	362734	1	Standard
⎣	**Be**	**9**	**0.000**	ug/L	0.001	489	8	10	60	Standard
	C	**13**		ug/L			26849	26836	3	Standard
	Cl	**37**		ug/L			7127339	7340360	0	Standard
⎡>	**Sc**	**45**		ug/L			395734	395157	1	Standard
⎢	**V**	**51**	**0.007**	ug/L	0.007	105	5501	5641	1	Standard
⎢	**V-1**	**51**	**0.003**	ug/L	0.002	46	816	891	4	Standard
⎢	**Cr**	**52**	**0.007**	ug/L	0.020	285	16406	16507	1	Standard
⎢	**Cr**	**53**	**-0.004**	ug/L	0.002	60	355	346	3	Standard
⎢	**Fe**	**54**	**-1.278**	ug/L	0.716	55	71417	68827	1	Standard
⎢	**Fe**	**57**	**-2.189**	ug/L	0.449	20	27568	25840	1	Standard
⎣	**Mn**	**55**	**0.005**	ug/L	0.001	22	682	825	2	Standard
⎡>	**Ge**	**72**		ug/L			28461	26462	1	KED
⎢	**Co**	**59**	**-0.000**	ug/L	0.003	1105	38	34	33	KED
⎢	**Ni**	**60**	**0.007**	ug/L	0.004	61	5	13	37	KED
⎢	**Ni**	**62**	**-0.008**	ug/L	0.009	113	3	1	100	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.001	209	38	38	10	KED
⎢	**Cu**	**65**	**0.003**	ug/L	0.002	58	13	19	20	KED
⎢	**Zn**	**66**	**0.010**	ug/L	0.003	27	12	16	6	KED
⎢	**Zn**	**67**	**0.000**	ug/L	0.013	2897	0	0	173	KED
⎢	**As**	**75**	**0.003**	ug/L	0.006	228	3	3	42	KED
⎣	**Se**	**78**	**-0.010**	ug/L	0.029	286	12	11	6	KED
	Y	**89**		ug/L			225032	220969	1	Standard
	Kr	**83**		ug/L			55	54	7	Standard
⎡>	**In-1**	**115**		ug/L			6703	6292	2	KED
⎢	**Mo**	**98**	**0.002**	ug/L	0.002	106	8	10	24	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.000	7	4	2	0	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.000	2	4	1		KED
⎡>	**In**	**115**		ug/L			284163	278240	1	Standard
⎢	**Ag**	**107**	**0.001**	ug/L	0.000	31	26	46	13	Standard
⎢	**Sb**	**121**	**0.007**	ug/L	0.003	35	166	257	13	Standard
⎢	**Sb**	**123**	**0.006**	ug/L	0.002	36	133	191	10	Standard
⎢	**Ba**	**135**	**0.004**	ug/L	0.001	35	20	37	16	Standard
⎣	**Ba**	**137**	**0.002**	ug/L	0.001	62	32	45	18	Standard
⎡>	**Tb**	**159**		ug/L			618443	626536	1	Standard
⎢	**Tl**	**205**	**0.006**	ug/L	0.001	14	134	374	9	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.001	24	129	270	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0571-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:31:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	357707	1	Standard
⌊	**Be**	**9**	**0.005**	ug/L	0.001	27	8	33	18	Standard
	C	**13**		ug/L			26849	32050	3	Standard
	Cl	**37**		ug/L			7127339	8448908	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	408275	1	Standard
⌈	**V**	**51**	**1.221**	ug/L	0.027	2	5501	33648	1	Standard
⌊	**V-1**	**51**	**2.115**	ug/L	0.021	1	816	49903	0	Standard
⌈	**Cr**	**52**	**6.373**	ug/L	0.140	2	16406	138682	2	Standard
⌊	**Cr**	**53**	**9.106**	ug/L	0.077	0	355	20869	1	Standard
⌈	**Fe**	**54**	**464.915**	ug/L	3.744	0	71417	1003698	0	Standard
⌊	**Fe**	**57**	**455.963**	ug/L	6.654	1	27568	391270	1	Standard
⌊	**Mn**	**55**	**75.527**	ug/L	1.894	2	682	2109235	1	Standard
⌈>	**Ge**	**72**		ug/L			28461	26447	2	KED
⌈	**Co**	**59**	**0.359**	ug/L	0.012	3	38	1649	2	KED
⌊	**Ni**	**60**	**11.881**	ug/L	0.204	1	5	15826	0	KED
⌈	**Ni**	**62**	**12.232**	ug/L	0.175	1	3	2629	1	KED
⌊	**Cu**	**63**	**13.193**	ug/L	0.397	3	38	49782	0	KED
⌈	**Cu**	**65**	**13.069**	ug/L	0.201	1	13	25087	3	KED
⌊	**Zn**	**66**	**119.710**	ug/L	1.906	1	12	58837	1	KED
⌈	**Zn**	**67**	**111.428**	ug/L	1.153	1	0	9122	2	KED
⌊	**As**	**75**	**0.786**	ug/L	0.065	8	3	218	5	KED
⌈	**Se**	**78**	**0.174**	ug/L	0.107	61	12	16	18	KED
	Y	**89**		ug/L			225032	230235	0	Standard
	Kr	**83**		ug/L			55	47	13	Standard
⌈>	**In-1**	**115**		ug/L			6703	6065	1	KED
⌈	**Mo**	**98**	**5.377**	ug/L	0.070	1	8	7296	1	KED
⌊	**Cd**	**111**	**0.185**	ug/L	0.015	8	4	56	7	KED
⌈	**Cd**	**114**	**0.177**	ug/L	0.063	35	4	131	35	KED
⌈>	**In**	**115**		ug/L			284163	274291	0	Standard
⌈	**Ag**	**107**	**0.034**	ug/L	0.004	11	26	524	10	Standard
⌈	**Sb**	**121**	**0.208**	ug/L	0.001	0	166	2811	0	Standard
⌊	**Sb**	**123**	**0.211**	ug/L	0.006	2	133	2242	1	Standard
⌈	**Ba**	**135**	**5.376**	ug/L	0.067	1	20	24295	0	Standard
⌊	**Ba**	**137**	**5.659**	ug/L	0.144	2	32	46888	2	Standard
⌈>	**Tb**	**159**		ug/L			618443	639543	0	Standard
⌈	**Tl**	**205**	**0.009**	ug/L	0.001	8	134	505	6	Standard
⌊	**Pb**	**208**	**17.719**	ug/L	0.165	0	129	937082	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0571-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:36:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	369613	1	Standard
⌊	**Be**	**9**	**0.004**	ug/L	0.001	14	8	31	9	Standard
	C	**13**		ug/L			26849	33792	4	Standard
	Cl	**37**		ug/L			7127339	7782809	0	Standard
⌈>	**Sc**	**45**		ug/L			395734	402123	1	Standard
⌈	**V**	**51**	**0.368**	ug/L	0.030	8	5501	13892	6	Standard
⌊	**V-1**	**51**	**0.792**	ug/L	0.018	2	816	18928	0	Standard
⌈	**Cr**	**52**	**1.923**	ug/L	0.011	0	16406	52845	1	Standard
⌊	**Cr**	**53**	**3.258**	ug/L	0.161	4	355	7582	3	Standard
⌈	**Fe**	**54**	**111.282**	ug/L	3.772	3	71417	291768	1	Standard
⌊	**Fe**	**57**	**106.456**	ug/L	2.100	1	27568	111454	2	Standard
⌊	**Mn**	**55**	**14.052**	ug/L	0.151	1	682	387126	1	Standard
⌈>	**Ge**	**72**		ug/L			28461	26285	0	KED
⌈	**Co**	**59**	**0.076**	ug/L	0.007	8	38	373	8	KED
⌊	**Ni**	**60**	**2.540**	ug/L	0.099	3	5	3367	3	KED
⌈	**Ni**	**62**	**2.584**	ug/L	0.017	0	3	554	1	KED
⌊	**Cu**	**63**	**4.709**	ug/L	0.045	0	38	17689	0	KED
⌈	**Cu**	**65**	**4.837**	ug/L	0.075	1	13	9234	1	KED
⌊	**Zn**	**66**	**174.510**	ug/L	2.368	1	12	85257	1	KED
⌈	**Zn**	**67**	**161.120**	ug/L	3.480	2	0	13110	2	KED
⌊	**As**	**75**	**0.463**	ug/L	0.052	11	3	129	11	KED
⌈	**Se**	**78**	**0.064**	ug/L	0.135	211	12	13	24	KED
	Y	**89**		ug/L			225032	223310	0	Standard
	Kr	**83**		ug/L			55	59	14	Standard
⌈>	**In-1**	**115**		ug/L			6703	5785	3	KED
⌈	**Mo**	**98**	**5.428**	ug/L	0.041	0	8	7026	3	KED
⌊	**Cd**	**111**	**0.108**	ug/L	0.039	35	4	33	34	KED
⌈	**Cd**	**114**	**0.125**	ug/L	0.011	8	4	89	5	KED
⌈>	**In**	**115**		ug/L			284163	277931	2	Standard
⌈	**Ag**	**107**	**0.012**	ug/L	0.001	4	26	200	6	Standard
⌊	**Sb**	**121**	**0.078**	ug/L	0.004	4	166	1166	2	Standard
⌈	**Sb**	**123**	**0.072**	ug/L	0.005	6	133	861	4	Standard
⌊	**Ba**	**135**	**2.278**	ug/L	0.091	4	20	10437	2	Standard
⌈	**Ba**	**137**	**2.308**	ug/L	0.043	1	32	19395	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	652978	2	Standard
⌈	**Tl**	**205**	**0.007**	ug/L	0.001	16	134	434	10	Standard
⌊	**Pb**	**208**	**4.081**	ug/L	0.112	2	129	220360	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0571-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:41:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	359680	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	207	8	10	36	Standard
	C	**13**		ug/L			26849	43754	1	Standard
	Cl	**37**		ug/L			7127339	10242635	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	398197	1	Standard
⌈	**V**	**51**	**0.406**	ug/L	0.018	4	5501	14603	3	Standard
⌊	**V-1**	**51**	**2.602**	ug/L	0.041	1	816	59700	0	Standard
⌈	**Cr**	**52**	**2.963**	ug/L	0.049	1	16406	71714	1	Standard
⌊	**Cr**	**53**	**10.095**	ug/L	0.175	1	355	22525	0	Standard
⌈	**Fe**	**54**	**15.866**	ug/L	0.326	2	71417	102823	1	Standard
⌊	**Fe**	**57**	**21.525**	ug/L	1.966	9	27568	44436	2	Standard
⌊	**Mn**	**55**	**21.261**	ug/L	0.461	2	682	579633	1	Standard
⌈>	**Ge**	**72**		ug/L			28461	25292	1	KED
⌈	**Co**	**59**	**0.137**	ug/L	0.012	8	38	624	7	KED
⌊	**Ni**	**60**	**4.336**	ug/L	0.082	1	5	5528	1	KED
⌈	**Ni**	**62**	**4.579**	ug/L	0.185	4	3	943	3	KED
⌊	**Cu**	**63**	**2.620**	ug/L	0.016	0	38	9487	0	KED
⌈	**Cu**	**65**	**2.638**	ug/L	0.057	2	13	4852	2	KED
⌊	**Zn**	**66**	**409.311**	ug/L	9.344	2	12	192373	1	KED
⌈	**Zn**	**67**	**381.092**	ug/L	8.067	2	0	29836	2	KED
⌊	**As**	**75**	**0.418**	ug/L	0.017	4	3	112	4	KED
⌈	**Se**	**78**	**0.402**	ug/L	0.062	15	12	21	6	KED
	Y	**89**		ug/L			225032	216083	1	Standard
	Kr	**83**		ug/L			55	59	8	Standard
⌈>	**In-1**	**115**		ug/L			6703	5576	3	KED
⌈	**Mo**	**98**	**24.133**	ug/L	0.667	2	8	30068	0	KED
⌊	**Cd**	**111**	**0.262**	ug/L	0.027	10	4	71	8	KED
⌈	**Cd**	**114**	**0.283**	ug/L	0.030	10	4	190	8	KED
⌈>	**In**	**115**		ug/L			284163	271718	1	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	36	26	70	24	Standard
⌈	**Sb**	**121**	**0.199**	ug/L	0.007	3	166	2673	2	Standard
⌊	**Sb**	**123**	**0.205**	ug/L	0.006	2	133	2159	3	Standard
⌈	**Ba**	**135**	**9.024**	ug/L	0.034	0	20	40384	1	Standard
⌊	**Ba**	**137**	**9.270**	ug/L	0.166	1	32	76071	2	Standard
⌈>	**Tb**	**159**		ug/L			618443	641810	0	Standard
⌈	**Tl**	**205**	**0.004**	ug/L	0.000	8	134	314	4	Standard
⌊	**Pb**	**208**	**0.382**	ug/L	0.007	1	129	20405	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0571-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:47:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			360911	371366	0	Standard
[	**Be**	**9**	**-0.001**	ug/L	0.000	55	8	5	33	Standard
	C	**13**		ug/L			26849	41119	3	Standard
	Cl	**37**		ug/L			7127339	9749325	3	Standard
[>	**Sc**	**45**		ug/L			395734	392454	1	Standard
[	**V**	**51**	**0.285**	ug/L	0.061	21	5501	11732	11	Standard
[	**V-1**	**51**	**2.130**	ug/L	0.065	3	816	48290	2	Standard
[	**Cr**	**52**	**2.356**	ug/L	0.069	2	16406	59517	0	Standard
[	**Cr**	**53**	**8.348**	ug/L	0.167	1	355	18416	0	Standard
[	**Fe**	**54**	**27.195**	ug/L	1.899	6	71417	123075	1	Standard
[	**Fe**	**57**	**32.063**	ug/L	1.932	6	27568	51856	2	Standard
[	**Mn**	**55**	**4.549**	ug/L	0.134	2	682	122749	2	Standard
[>	**Ge**	**72**		ug/L			28461	25800	1	KED
[	**Co**	**59**	**0.021**	ug/L	0.002	7	38	127	5	KED
[	**Ni**	**60**	**1.172**	ug/L	0.028	2	5	1528	3	KED
[	**Ni**	**62**	**1.211**	ug/L	0.006	0	3	257	1	KED
[	**Cu**	**63**	**1.990**	ug/L	0.003	0	38	7359	1	KED
[	**Cu**	**65**	**1.931**	ug/L	0.069	3	13	3624	2	KED
[	**Zn**	**66**	**64.741**	ug/L	1.068	1	12	31048	1	KED
[	**Zn**	**67**	**61.095**	ug/L	1.269	2	0	4878	1	KED
[	**As**	**75**	**0.225**	ug/L	0.012	5	3	63	3	KED
[	**Se**	**78**	**0.405**	ug/L	0.177	43	12	21	20	KED
	Y	**89**		ug/L			225032	217140	1	Standard
	Kr	**83**		ug/L			55	60	10	Standard
[>	**In-1**	**115**		ug/L			6703	5673	1	KED
[	**Mo**	**98**	**24.773**	ug/L	0.520	2	8	31417	1	KED
[	**Cd**	**111**	**0.015**	ug/L	0.011	68	4	7	37	KED
[	**Cd**	**114**	**0.014**	ug/L	0.005	36	4	12	26	KED
[>	**In**	**115**		ug/L			284163	278395	2	Standard
[	**Ag**	**107**	**-0.000**	ug/L	0.000	363	26	24	23	Standard
[	**Sb**	**121**	**0.179**	ug/L	0.014	7	166	2477	5	Standard
[	**Sb**	**123**	**0.178**	ug/L	0.006	3	133	1943	1	Standard
[	**Ba**	**135**	**7.349**	ug/L	0.202	2	20	33689	0	Standard
[	**Ba**	**137**	**7.489**	ug/L	0.233	3	32	62942	0	Standard
[>	**Tb**	**159**		ug/L			618443	653929	0	Standard
[	**Tl**	**205**	**0.003**	ug/L	0.001	24	134	255	10	Standard
[	**Pb**	**208**	**0.190**	ug/L	0.003	1	129	10390	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0579-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:52:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	354376	0	Standard
⌊	**Be**	**9**	**0.020**	ug/L	0.001	2	8	102	2	Standard
	C	**13**		ug/L			26849	40501	1	Standard
	Cl	**37**		ug/L			7127339	8147756	0	Standard
⌈>	**Sc**	**45**		ug/L			395734	395064	2	Standard
⎢	**V**	**51**	**0.464**	ug/L	0.020	4	5501	15777	2	Standard
⎢	**V-1**	**51**	**1.112**	ug/L	0.036	3	816	25756	1	Standard
⎢	**Cr**	**52**	**0.410**	ug/L	0.037	9	16406	23951	1	Standard
⎢	**Cr**	**53**	**2.545**	ug/L	0.099	3	355	5897	1	Standard
⎢	**Fe**	**54**	**183.607**	ug/L	4.719	2	71417	426586	0	Standard
⎢	**Fe**	**57**	**197.986**	ug/L	6.462	3	27568	179905	0	Standard
⌊	**Mn**	**55**	**124.359**	ug/L	2.887	2	682	3359728	0	Standard
⌈>	**Ge**	**72**		ug/L			28461	25764	1	KED
⎢	**Co**	**59**	**1.668**	ug/L	0.013	0	38	7335	0	KED
⎢	**Ni**	**60**	**4.757**	ug/L	0.123	2	5	6175	1	KED
⎢	**Ni**	**62**	**4.708**	ug/L	0.179	3	3	987	3	KED
⎢	**Cu**	**63**	**5.462**	ug/L	0.087	1	38	20106	0	KED
⎢	**Cu**	**65**	**5.504**	ug/L	0.044	0	13	10297	0	KED
⎢	**Zn**	**66**	**25.771**	ug/L	1.021	3	12	12347	3	KED
⎢	**Zn**	**67**	**24.109**	ug/L	0.199	0	0	1923	1	KED
⎢	**As**	**75**	**0.239**	ug/L	0.008	3	3	66	4	KED
⌊	**Se**	**78**	**0.130**	ug/L	0.017	13	12	14	3	KED
	Y	**89**		ug/L			225032	238901	0	Standard
	Kr	**83**		ug/L			55	52	27	Standard
⌈>	**In-1**	**115**		ug/L			6703	5683	1	KED
⎢	**Mo**	**98**	**0.546**	ug/L	0.022	3	8	700	5	KED
⎢	**Cd**	**111**	**0.091**	ug/L	0.011	12	4	27	11	KED
⌊	**Cd**	**114**	**0.077**	ug/L	0.029	37	4	55	35	KED
⌈>	**In**	**115**		ug/L			284163	275862	1	Standard
⎢	**Ag**	**107**	**0.002**	ug/L	0.001	42	26	60	22	Standard
⎢	**Sb**	**121**	**0.505**	ug/L	0.009	1	166	6646	1	Standard
⎢	**Sb**	**123**	**0.510**	ug/L	0.008	1	133	5269	0	Standard
⎢	**Ba**	**135**	**4.911**	ug/L	0.101	2	20	22320	0	Standard
⌊	**Ba**	**137**	**5.062**	ug/L	0.114	2	32	42178	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	664495	1	Standard
⎢	**Tl**	**205**	**0.006**	ug/L	0.001	11	134	398	9	Standard
⌊	**Pb**	**208**	**0.173**	ug/L	0.004	2	129	9664	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0579-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 18:58:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	344782	0	Standard
	Be	**9**	**0.027**	ug/L	0.003	10	8	130	9	Standard
	C	**13**		ug/L			26849	42537	0	Standard
	Cl	**37**		ug/L			7127339	8397025	0	Standard
>	**Sc**	**45**		ug/L			395734	398834	1	Standard
	V	**51**	**0.649**	ug/L	0.027	4	5501	20060	1	Standard
	V-1	**51**	**1.509**	ug/L	0.022	1	816	35012	0	Standard
	Cr	**52**	**0.463**	ug/L	0.036	7	16406	25170	1	Standard
	Cr	**53**	**3.304**	ug/L	0.036	1	355	7625	1	Standard
	Fe	**54**	**275.277**	ug/L	0.186	0	71417	609942	1	Standard
	Fe	**57**	**291.746**	ug/L	7.268	2	27568	254554	1	Standard
	Mn	**55**	**136.269**	ug/L	3.215	2	682	3717293	1	Standard
>	**Ge**	**72**		ug/L			28461	25332	1	KED
	Co	**59**	**1.991**	ug/L	0.058	2	38	8601	3	KED
	Ni	**60**	**5.379**	ug/L	0.023	0	5	6867	0	KED
	Ni	**62**	**5.473**	ug/L	0.313	5	3	1128	5	KED
	Cu	**63**	**6.870**	ug/L	0.133	1	38	24857	2	KED
	Cu	**65**	**7.069**	ug/L	0.135	1	13	12998	1	KED
	Zn	**66**	**35.731**	ug/L	0.420	1	12	16832	1	KED
	Zn	**67**	**32.801**	ug/L	0.630	1	0	2572	0	KED
	As	**75**	**0.356**	ug/L	0.017	4	3	96	3	KED
	Se	**78**	**0.163**	ug/L	0.247	152	12	15	37	KED
	Y	**89**		ug/L			225032	244655	1	Standard
	Kr	**83**		ug/L			55	61	28	Standard
>	**In-1**	**115**		ug/L			6703	5553	2	KED
	Mo	**98**	**0.574**	ug/L	0.019	3	8	719	5	KED
	Cd	**111**	**0.081**	ug/L	0.011	13	4	24	8	KED
	Cd	**114**	**0.094**	ug/L	0.010	10	4	65	12	KED
>	**In**	**115**		ug/L			284163	273717	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	39	26	81	27	Standard
	Sb	**121**	**0.551**	ug/L	0.005	0	166	7170	0	Standard
	Sb	**123**	**0.571**	ug/L	0.003	0	133	5831	1	Standard
	Ba	**135**	**6.919**	ug/L	0.023	0	20	31194	1	Standard
	Ba	**137**	**7.133**	ug/L	0.137	1	32	58963	1	Standard
>	**Tb**	**159**		ug/L			618443	670595	1	Standard
	Tl	**205**	**0.007**	ug/L	0.001	7	134	417	6	Standard
	Pb	**208**	**0.290**	ug/L	0.005	1	129	16198	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0571-03RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:03:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	363731	0	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	101	8	5	78	Standard
	C	**13**		ug/L			26849	31251	1	Standard
	Cl	**37**		ug/L			7127339	8036704	0	Standard
⌈>	**Sc**	**45**		ug/L			395734	393299	0	Standard
⌈	**V**	**51**	**0.084**	ug/L	0.014	16	5501	7314	4	Standard
⌊	**V-1**	**51**	**0.672**	ug/L	0.008	1	816	15820	0	Standard
⌈	**Cr**	**52**	**0.626**	ug/L	0.034	5	16406	27819	1	Standard
⌊	**Cr**	**53**	**2.541**	ug/L	0.081	3	355	5863	2	Standard
⌈	**Fe**	**54**	**1.125**	ug/L	0.413	36	71417	73143	0	Standard
⌊	**Fe**	**57**	**-1.908**	ug/L	1.184	62	27568	25933	2	Standard
⌊	**Mn**	**55**	**4.593**	ug/L	0.063	1	682	124225	0	Standard
⌈>	**Ge**	**72**		ug/L			28461	25577	0	KED
⌈	**Co**	**59**	**0.025**	ug/L	0.006	24	38	140	18	KED
⌊	**Ni**	**60**	**0.937**	ug/L	0.021	2	5	1211	2	KED
⌈	**Ni**	**62**	**0.919**	ug/L	0.031	3	3	194	2	KED
⌈	**Cu**	**63**	**0.579**	ug/L	0.003	0	38	2148	0	KED
⌊	**Cu**	**65**	**0.609**	ug/L	0.023	3	13	1142	3	KED
⌈	**Zn**	**66**	**92.268**	ug/L	0.653	0	12	43869	0	KED
⌊	**Zn**	**67**	**85.132**	ug/L	1.382	1	0	6740	1	KED
⌈	**As**	**75**	**0.083**	ug/L	0.022	26	3	25	22	KED
⌊	**Se**	**78**	**0.118**	ug/L	0.175	148	12	14	29	KED
	Y	**89**		ug/L			225032	213520	2	Standard
	Kr	**83**		ug/L			55	43	22	Standard
⌈>	**In-1**	**115**		ug/L			6703	5871	0	KED
⌈	**Mo**	**98**	**4.880**	ug/L	0.043	0	8	6410	1	KED
⌈	**Cd**	**111**	**0.048**	ug/L	0.018	36	4	16	29	KED
⌊	**Cd**	**114**	**0.055**	ug/L	0.019	35	4	41	32	KED
⌈>	**In**	**115**		ug/L			284163	278385	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.000	48	26	19	14	Standard
⌈	**Sb**	**121**	**0.033**	ug/L	0.003	8	166	593	5	Standard
⌊	**Sb**	**123**	**0.038**	ug/L	0.003	8	133	520	6	Standard
⌈	**Ba**	**135**	**2.014**	ug/L	0.019	0	20	9248	0	Standard
⌊	**Ba**	**137**	**2.032**	ug/L	0.053	2	32	17103	1	Standard
⌈>	**Tb**	**159**		ug/L			618443	668487	0	Standard
⌈	**Tl**	**205**	**0.004**	ug/L	0.000	10	134	315	6	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.002	2	129	4934	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0483-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:11:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	361754	1	Standard
	Be	**9**	**0.003**	ug/L	0.001	22	8	22	14	Standard
	C	**13**		ug/L			26849	52112	1	Standard
	Cl	**37**		ug/L			7127339	13689540	2	Standard
>	**Sc**	**45**		ug/L			395734	409418	0	Standard
	V	**51**	**0.515**	ug/L	0.085	16	5501	17520	11	Standard
	V-1	**51**	**5.607**	ug/L	0.039	0	816	131294	1	Standard
	Cr	**52**	**0.510**	ug/L	0.015	3	16406	26742	1	Standard
	Cr	**53**	**17.289**	ug/L	0.333	1	355	39406	2	Standard
	Fe	**54**	**152.776**	ug/L	2.150	1	71417	380390	1	Standard
	Fe	**57**	**153.915**	ug/L	5.065	3	27568	151337	2	Standard
	Mn	**55**	**11.273**	ug/L	0.102	0	682	316361	0	Standard
>	**Ge**	**72**		ug/L			28461	24530	6	KED
	Co	**59**	**0.083**	ug/L	0.008	9	38	376	2	KED
	Ni	**60**	**0.487**	ug/L	0.037	7	5	603	1	KED
	Ni	**62**	**0.475**	ug/L	0.143	30	3	96	21	KED
	Cu	**63**	**3.985**	ug/L	0.271	6	38	13932	0	KED
	Cu	**65**	**4.081**	ug/L	0.267	6	13	7251	0	KED
	Zn	**66**	**108.228**	ug/L	8.978	8	12	49160	1	KED
	Zn	**67**	**100.006**	ug/L	8.977	8	0	7563	2	KED
	As	**75**	**0.320**	ug/L	0.026	8	3	84	3	KED
	Se	**78**	**0.098**	ug/L	0.034	35	12	13	1	KED
	Y	**89**		ug/L			225032	221775	1	Standard
	Kr	**83**		ug/L			55	51	16	Standard
>	**In-1**	**115**		ug/L			6703	5712	1	KED
	Mo	**98**	**0.155**	ug/L	0.024	15	8	204	14	KED
	Cd	**111**	**0.118**	ug/L	0.020	17	4	34	13	KED
	Cd	**114**	**0.122**	ug/L	0.024	19	4	86	20	KED
>	**In**	**115**		ug/L			284163	270778	1	Standard
	Ag	**107**	**0.006**	ug/L	0.000	1	26	108	1	Standard
	Sb	**121**	**0.188**	ug/L	0.006	3	166	2528	2	Standard
	Sb	**123**	**0.193**	ug/L	0.009	4	133	2037	4	Standard
	Ba	**135**	**44.334**	ug/L	0.987	2	20	197673	3	Standard
	Ba	**137**	**45.045**	ug/L	0.940	2	32	368176	1	Standard
>	**Tb**	**159**		ug/L			618443	643360	2	Standard
	Tl	**205**	**0.003**	ug/L	0.000	10	134	251	6	Standard
	Pb	**208**	**0.463**	ug/L	0.009	1	129	24758	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0490-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:16:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			360911	362739	2	Standard
	Be	**9**	**0.001**	ug/L	0.000	49	8	12	17	Standard
	C	**13**		ug/L			26849	47343	0	Standard
	Cl	**37**		ug/L			7127339	7664091	2	Standard
>	**Sc**	**45**		ug/L			395734	432925	1	Standard
	V	**51**	**0.942**	ug/L	0.030	3	5501	28893	2	Standard
	V-1	**51**	**1.172**	ug/L	0.023	1	816	29722	1	Standard
	Cr	**52**	**0.322**	ug/L	0.027	8	16406	24469	1	Standard
	Cr	**53**	**1.107**	ug/L	0.057	5	355	3030	3	Standard
	Fe	**54**	**233.746**	ug/L	4.706	2	71417	573849	0	Standard
	Fe	**57**	**225.963**	ug/L	6.539	2	27568	220768	1	Standard
	Mn	**55**	**3.608**	ug/L	0.021	0	682	107578	1	Standard
>	**Ge**	**72**		ug/L			28461	26119	0	KED
	Co	**59**	**0.123**	ug/L	0.005	4	38	580	3	KED
	Ni	**60**	**1.004**	ug/L	0.057	5	5	1325	5	KED
	Ni	**62**	**1.035**	ug/L	0.047	4	3	222	4	KED
	Cu	**63**	**15.038**	ug/L	0.194	1	38	56061	1	KED
	Cu	**65**	**14.952**	ug/L	0.280	1	13	28339	1	KED
	Zn	**66**	**23.519**	ug/L	0.089	0	12	11428	0	KED
	Zn	**67**	**21.417**	ug/L	0.326	1	0	1732	1	KED
	As	**75**	**0.020**	ug/L	0.002	8	3	8	5	KED
	Se	**78**	**0.080**	ug/L	0.073	90	12	13	13	KED
	Y	**89**		ug/L			225032	224193	0	Standard
	Kr	**83**		ug/L			55	61	26	Standard
>	**In-1**	**115**		ug/L			6703	5935	1	KED
	Mo	**98**	**0.022**	ug/L	0.006	29	8	36	24	KED
	Cd	**111**	**0.006**	ug/L	0.009	140	4	5	44	KED
	Cd	**114**	**0.006**	ug/L	0.003	56	4	7	28	KED
>	**In**	**115**		ug/L			284163	284307	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	97	26	45	40	Standard
	Sb	**121**	**0.004**	ug/L	0.002	37	166	220	9	Standard
	Sb	**123**	**0.003**	ug/L	0.002	63	133	168	13	Standard
	Ba	**135**	**1.852**	ug/L	0.024	1	20	8690	1	Standard
	Ba	**137**	**1.841**	ug/L	0.023	1	32	15834	1	Standard
>	**Tb**	**159**		ug/L			618443	670686	1	Standard
	Tl	**205**	**0.004**	ug/L	0.000	6	134	291	4	Standard
	Pb	**208**	**0.236**	ug/L	0.006	2	129	13241	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:21:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	360222	1	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.000	36	8	3	50	Standard
	C	**13**		ug/L			26849	29027	3	Standard
	Cl	**37**		ug/L			7127339	7415687	1	Standard
⌈>	**Sc**	**45**		ug/L			395734	395059	0	Standard
⌈	**V**	**51**	**-0.007**	ug/L	0.005	73	5501	5336	2	Standard
⌊	**V-1**	**51**	**0.046**	ug/L	0.001	1	816	1852	0	Standard
⌈	**Cr**	**52**	**-0.033**	ug/L	0.012	35	16406	15774	1	Standard
⌊	**Cr**	**53**	**0.144**	ug/L	0.004	3	355	668	1	Standard
⌈	**Fe**	**54**	**-2.572**	ug/L	0.746	29	71417	66315	2	Standard
⌊	**Fe**	**57**	**-5.472**	ug/L	0.469	8	27568	23308	1	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	72	682	721	3	Standard
⌈>	**Ge**	**72**		ug/L			28461	26323	2	KED
⌈	**Co**	**59**	**-0.005**	ug/L	0.001	17	38	13	28	KED
⌊	**Ni**	**60**	**0.048**	ug/L	0.009	19	5	68	16	KED
⌈	**Ni**	**62**	**0.028**	ug/L	0.018	63	3	9	40	KED
⌈	**Cu**	**63**	**0.001**	ug/L	0.003	276	38	40	29	KED
⌊	**Cu**	**65**	**0.008**	ug/L	0.004	43	13	29	26	KED
⌈	**Zn**	**66**	**0.028**	ug/L	0.009	32	12	25	15	KED
⌊	**Zn**	**67**	**0.078**	ug/L	0.070	89	0	6	83	KED
⌈	**As**	**75**	**-0.000**	ug/L	0.004	2534	3	3	37	KED
⌊	**Se**	**78**	**-0.018**	ug/L	0.090	492	12	11	17	KED
	Y	**89**		ug/L			225032	217681	1	Standard
	Kr	**83**		ug/L			55	52	8	Standard
⌈>	**In-1**	**115**		ug/L			6703	5841	2	KED
⌈	**Mo**	**98**	**-0.003**	ug/L	0.003	105	8	3	118	KED
⌈	**Cd**	**111**	**-0.003**	ug/L	0.003	124	4	2	33	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	86	4	1	101	KED
⌈>	**In**	**115**		ug/L			284163	277888	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.000	66	26	19	20	Standard
⌈	**Sb**	**121**	**-0.009**	ug/L	0.001	8	166	45	23	Standard
⌊	**Sb**	**123**	**-0.008**	ug/L	0.001	9	133	44	17	Standard
⌈	**Ba**	**135**	**0.002**	ug/L	0.001	39	20	28	11	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	126	32	38	21	Standard
⌈>	**Tb**	**159**		ug/L			618443	646583	1	Standard
⌈	**Tl**	**205**	**0.005**	ug/L	0.000	6	134	333	4	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	28	129	264	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:26:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			360911	349554	1	Standard
[	**Be**	**9**	**49.070**	ug/L	0.309	0	8	227542	1	Standard
	C	**13**		ug/L			26849	31203	0	Standard
	Cl	**37**		ug/L			7127339	7618892	1	Standard
[>	**Sc**	**45**		ug/L			395734	398002	1	Standard
[	**V**	**51**	**49.982**	ug/L	0.443	0	5501	1121750	1	Standard
[	**V-1**	**51**	**50.040**	ug/L	0.417	0	816	1132499	1	Standard
[	**Cr**	**52**	**50.150**	ug/L	0.458	0	16406	950545	1	Standard
[	**Cr**	**53**	**50.335**	ug/L	0.440	0	355	110849	1	Standard
[	**Fe**	**54**	**5023.347**	ug/L	53.695	1	71417	9867731	0	Standard
[	**Fe**	**57**	**4986.696**	ug/L	6.221	0	27568	3896249	1	Standard
[	**Mn**	**55**	**50.076**	ug/L	0.758	1	682	1363879	2	Standard
[>	**Ge**	**72**		ug/L			28461	26389	1	KED
[	**Co**	**59**	**51.107**	ug/L	0.712	1	38	229087	0	KED
[	**Ni**	**60**	**53.224**	ug/L	0.640	1	5	70749	1	KED
[	**Ni**	**62**	**51.531**	ug/L	1.882	3	3	11041	3	KED
[	**Cu**	**63**	**52.721**	ug/L	0.877	1	38	198452	0	KED
[	**Cu**	**65**	**53.161**	ug/L	0.801	1	13	101755	1	KED
[	**Zn**	**66**	**52.140**	ug/L	0.349	0	12	25580	0	KED
[	**Zn**	**67**	**50.783**	ug/L	0.729	1	0	4148	0	KED
[	**As**	**75**	**50.047**	ug/L	0.952	1	3	13696	0	KED
[	**Se**	**78**	**48.528**	ug/L	0.603	1	12	1231	1	KED
	Y	**89**		ug/L			225032	220341	0	Standard
	Kr	**83**		ug/L			55	55	22	Standard
[>	**In-1**	**115**		ug/L			6703	5817	1	KED
[	**Mo**	**98**	**52.611**	ug/L	0.904	1	8	68402	1	KED
[	**Cd**	**111**	**52.292**	ug/L	1.443	2	4	14243	3	KED
[	**Cd**	**114**	**52.604**	ug/L	0.776	1	4	36346	1	KED
[>	**In**	**115**		ug/L			284163	279333	0	Standard
[	**Ag**	**107**	**49.127**	ug/L	0.588	1	26	744601	0	Standard
[	**Sb**	**121**	**52.791**	ug/L	0.791	1	166	686192	0	Standard
[	**Sb**	**123**	**52.725**	ug/L	0.558	1	133	537681	0	Standard
[	**Ba**	**135**	**54.940**	ug/L	1.458	2	20	252657	2	Standard
[	**Ba**	**137**	**55.837**	ug/L	2.177	3	32	470737	2	Standard
[>	**Tb**	**159**		ug/L			618443	658875	1	Standard
[	**Tl**	**205**	**55.332**	ug/L	0.748	1	134	2230253	0	Standard
[	**Pb**	**208**	**54.680**	ug/L	1.222	2	129	2978191	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:34:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			360911	360771	3	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	136	8	7	25	Standard
	C	**13**		ug/L			26849	27949	3	Standard
	Cl	**37**		ug/L			7127339	7379819	0	Standard
⌈>	**Sc**	**45**		ug/L			395734	393660	2	Standard
⎢	**V**	**51**	**-0.000**	ug/L	0.005	3429	5501	5468	0	Standard
⎢	**V-1**	**51**	**0.011**	ug/L	0.001	13	816	1047	1	Standard
⎢	**Cr**	**52**	**-0.011**	ug/L	0.011	100	16406	16122	1	Standard
⎢	**Cr**	**53**	**0.025**	ug/L	0.001	5	355	407	2	Standard
⎢	**Fe**	**54**	**-1.354**	ug/L	0.756	55	71417	68415	1	Standard
⎢	**Fe**	**57**	**-3.365**	ug/L	0.197	5	27568	24840	1	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.002	54	682	786	5	Standard
⌈>	**Ge**	**72**		ug/L			28461	26498	1	KED
⎢	**Co**	**59**	**0.001**	ug/L	0.003	259	38	40	29	KED
⎢	**Ni**	**60**	**0.009**	ug/L	0.003	32	5	16	24	KED
⎢	**Ni**	**62**	**0.004**	ug/L	0.010	244	3	4	49	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.003	188	38	41	25	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.001	69	13	16	13	KED
⎢	**Zn**	**66**	**0.016**	ug/L	0.014	88	12	19	33	KED
⎢	**Zn**	**67**	**0.054**	ug/L	0.035	64	0	5	57	KED
⎢	**As**	**75**	**0.001**	ug/L	0.005	366	3	3	39	KED
⌊	**Se**	**78**	**-0.003**	ug/L	0.055	1934	12	11	10	KED
	Y	**89**		ug/L			225032	223384	1	Standard
	Kr	**83**		ug/L			55	48	15	Standard
⌈>	**In-1**	**115**		ug/L			6703	6082	3	KED
⎢	**Mo**	**98**	**0.004**	ug/L	0.004	119	8	12	47	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.008	1002	4	3	62	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	622	4	4	50	KED
⌈>	**In**	**115**		ug/L			284163	283870	0	Standard
⎢	**Ag**	**107**	**0.001**	ug/L	0.000	17	26	43	7	Standard
⎢	**Sb**	**121**	**0.007**	ug/L	0.002	28	166	260	10	Standard
⎢	**Sb**	**123**	**0.005**	ug/L	0.001	20	133	186	6	Standard
⎢	**Ba**	**135**	**0.003**	ug/L	0.001	48	20	34	19	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.002	48	32	67	24	Standard
⌈>	**Tb**	**159**		ug/L			618443	656968	0	Standard
⎢	**Tl**	**205**	**0.005**	ug/L	0.001	20	134	355	12	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	45	129	275	22	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:43:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				25974	1	Standard
	Cl	**37**		ug/L				6792206	2	Standard
⎡>	**Sc**	**45**		ug/L				386202	3	Standard
⎢	**Cr**	**52**		ug/L				15278	1	Standard
⎢	**Cr**	**53**		ug/L				340	12	Standard
⎣	**Mn**	**55**		ug/L				704	2	Standard
⎡>	**Ge**	**72**		ug/L				27053	1	KED
⎢	**Ni**	**60**		ug/L				4	49	KED
⎢	**Ni**	**62**		ug/L				3	91	KED
⎢	**Cu**	**63**		ug/L				28	26	KED
⎢	**Cu**	**65**		ug/L				10	39	KED
⎢	**Zn**	**66**		ug/L				8	32	KED
⎢	**Zn**	**67**		ug/L				2	43	KED
⎢	**As**	**75**		ug/L				2	20	KED
⎣	**Se**	**78**		ug/L				11	14	KED
	Y	**89**		ug/L				216612	1	Standard
	Kr	**83**		ug/L				36	26	Standard
⎡>	**In-1**	**115**		ug/L				6208	3	KED
⎢	**Mo**	**98**		ug/L				6	75	KED
⎢	**Cd**	**111**		ug/L				1	86	KED
⎣	**Cd**	**114**		ug/L				3	127	KED
⎡>	**Tb**	**159**		ug/L				696628	0	Standard
⎣	**Pb**	**208**		ug/L				135	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:48:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	32368	1	Standard
	Cl	**37**		ug/L			6792206	7047844	2	Standard
>	**Sc**	**45**		ug/L			386202	389123	2	Standard
	Cr	**52**	**49.382**	ug/L	0.639	1	15278	914388	1	Standard
	Cr	**53**	**48.524**	ug/L	1.025	2	340	104452	1	Standard
	Mn	**55**	**49.971**	ug/L	0.240	0	704	1330583	2	Standard
>	**Ge**	**72**		ug/L			27053	26687	1	KED
	Ni	**60**	**51.043**	ug/L	0.643	1	4	68612	1	KED
	Ni	**62**	**52.490**	ug/L	0.800	1	3	11375	2	KED
	Cu	**63**	**52.582**	ug/L	1.239	2	28	200146	1	KED
	Cu	**65**	**52.750**	ug/L	1.859	3	10	102095	2	KED
	Zn	**66**	**52.250**	ug/L	0.767	1	8	25925	2	KED
	Zn	**67**	**51.468**	ug/L	0.750	1	2	4254	2	KED
	As	**75**	**50.639**	ug/L	0.420	0	2	14015	0	KED
	Se	**78**	**47.060**	ug/L	1.676	3	11	1207	2	KED
	Y	**89**		ug/L			216612	220445	3	Standard
	Kr	**83**		ug/L			36	71	12	Standard
>	**In-1**	**115**		ug/L			6208	5987	3	KED
	Mo	**98**	**51.007**	ug/L	1.740	3	6	68213	0	KED
	Cd	**111**	**51.547**	ug/L	1.614	3	1	14439	0	KED
	Cd	**114**	**51.569**	ug/L	1.194	2	3	36657	1	KED
>	**Tb**	**159**		ug/L			696628	694504	1	Standard
	Pb	**208**	**55.190**	ug/L	1.090	1	135	3168624	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 19:57:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	25794	1	Standard
	Cl	**37**		ug/L			6792206	6707823	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	383934	3	Standard
|	**Cr**	**52**	**-0.000**	ug/L	0.022	5314	15278	15172	1	Standard
|	**Cr**	**53**	**-0.021**	ug/L	0.014	69	340	294	9	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	29	704	754	5	Standard
⌈>	**Ge**	**72**		ug/L			27053	26750	2	KED
|	**Ni**	**60**	**0.008**	ug/L	0.008	106	4	14	71	KED
|	**Ni**	**62**	**0.000**	ug/L	0.019	3978	3	3	124	KED
|	**Cu**	**63**	**0.005**	ug/L	0.006	119	28	48	47	KED
|	**Cu**	**65**	**0.008**	ug/L	0.006	83	10	24	46	KED
|	**Zn**	**66**	**0.009**	ug/L	0.013	145	8	13	49	KED
|	**Zn**	**67**	**0.031**	ug/L	0.047	152	2	5	78	KED
|	**As**	**75**	**0.009**	ug/L	0.004	37	2	5	15	KED
⌊	**Se**	**78**	**0.053**	ug/L	0.034	64	11	12	7	KED
	Y	**89**		ug/L			216612	216434	1	Standard
	Kr	**83**		ug/L			36	43	11	Standard
⌈>	**In-1**	**115**		ug/L			6208	6118	1	KED
|	**Mo**	**98**	**0.001**	ug/L	0.000	12	6	7	0	KED
|	**Cd**	**111**	**0.002**	ug/L	0.003	144	1	1	50	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	50516	3	3	72	KED
⌈>	**Tb**	**159**		ug/L			696628	685167	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	6	135	185	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:06:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	37372	2	Standard
	Cl	**37**		ug/L			6792206	6822701	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	394110	2	Standard
|	**Cr**	**52**	**0.041**	ug/L	0.009	22	15278	16346	1	Standard
|	**Cr**	**53**	**-0.026**	ug/L	0.001	2	340	290	2	Standard
⌊	**Mn**	**55**	**0.016**	ug/L	0.001	6	704	1138	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	27574	0	KED
|	**Ni**	**60**	**0.033**	ug/L	0.005	15	4	50	15	KED
|	**Ni**	**62**	**0.022**	ug/L	0.010	44	3	8	26	KED
|	**Cu**	**63**	**0.014**	ug/L	0.004	29	28	83	18	KED
|	**Cu**	**65**	**0.015**	ug/L	0.005	33	10	39	24	KED
|	**Zn**	**66**	**0.281**	ug/L	0.069	24	8	153	22	KED
|	**Zn**	**67**	**0.304**	ug/L	0.042	13	2	28	13	KED
|	**As**	**75**	**0.001**	ug/L	0.003	170	2	3	22	KED
⌊	**Se**	**78**	**-0.012**	ug/L	0.185	1542	11	11	40	KED
	Y	**89**		ug/L			216612	218651	0	Standard
	Kr	**83**		ug/L			36	46	32	Standard
⌈>	**In-1**	**115**		ug/L			6208	6355	4	KED
|	**Mo**	**98**	**-0.001**	ug/L	0.004	308	6	4	125	KED
|	**Cd**	**111**	**0.008**	ug/L	0.008	97	1	3	66	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	171	3	2	44	KED
⌈>	**Tb**	**159**		ug/L			696628	707270	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	6	135	342	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:11:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	35725	2	Standard
	Cl	**37**		ug/L			6792206	6683932	1	Standard
⌈>	**Sc**	**45**		ug/L			386202	398279	2	Standard
|	**Cr**	**52**	**26.768**	ug/L	0.312	1	15278	514592	1	Standard
|	**Cr**	**53**	**26.349**	ug/L	1.159	4	340	58191	2	Standard
⌊	**Mn**	**55**	**27.614**	ug/L	0.639	2	704	752704	0	Standard
⌈>	**Ge**	**72**		ug/L			27053	27194	0	KED
|	**Ni**	**60**	**27.946**	ug/L	0.267	0	4	38282	1	KED
|	**Ni**	**62**	**28.169**	ug/L	0.387	1	3	6221	0	KED
|	**Cu**	**63**	**28.356**	ug/L	0.274	0	28	110009	0	KED
|	**Cu**	**65**	**28.889**	ug/L	0.731	2	10	56983	1	KED
|	**Zn**	**66**	**85.310**	ug/L	0.806	0	8	43121	0	KED
|	**Zn**	**67**	**80.392**	ug/L	2.373	2	2	6769	2	KED
|	**As**	**75**	**25.766**	ug/L	0.189	0	2	7268	0	KED
⌊	**Se**	**78**	**78.513**	ug/L	1.599	2	11	2045	2	KED
	Y	**89**		ug/L			216612	225386	2	Standard
	Kr	**83**		ug/L			36	60	15	Standard
⌈>	**In-1**	**115**		ug/L			6208	6135	0	KED
|	**Mo**	**98**	**-0.001**	ug/L	0.004	430	6	5	86	KED
|	**Cd**	**111**	**26.971**	ug/L	0.393	1	1	7748	2	KED
⌊	**Cd**	**114**	**26.628**	ug/L	0.334	1	3	19405	0	KED
⌈>	**Tb**	**159**		ug/L			696628	717929	1	Standard
⌊	**Pb**	**208**	**30.222**	ug/L	0.395	1	135	1793905	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:16:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	44329	5	Standard
	Cl	**37**		ug/L			6792206	6699632	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	399805	1	Standard
|	**Cr**	**52**	**0.123**	ug/L	0.005	4	15278	18112	0	Standard
|	**Cr**	**53**	**0.057**	ug/L	0.004	6	340	478	2	Standard
⌊	**Mn**	**55**	**0.067**	ug/L	0.006	9	704	2563	6	Standard
⌈>	**Ge**	**72**		ug/L			27053	28042	0	KED
|	**Ni**	**60**	**0.011**	ug/L	0.007	69	4	19	53	KED
|	**Ni**	**62**	**0.002**	ug/L	0.014	638	3	3	86	KED
|	**Cu**	**63**	**0.015**	ug/L	0.005	31	28	89	21	KED
|	**Cu**	**65**	**0.018**	ug/L	0.003	15	10	46	11	KED
|	**Zn**	**66**	**0.260**	ug/L	0.033	12	8	144	11	KED
|	**Zn**	**67**	**0.204**	ug/L	0.068	33	2	20	28	KED
|	**As**	**75**	**0.001**	ug/L	0.007	511	2	3	60	KED
⌊	**Se**	**78**	**0.085**	ug/L	0.057	66	11	14	10	KED
	Y	**89**		ug/L			216612	222194	1	Standard
	Kr	**83**		ug/L			36	53	22	Standard
⌈>	**In-1**	**115**		ug/L			6208	6274	1	KED
|	**Mo**	**98**	**0.003**	ug/L	0.004	112	6	11	43	KED
|	**Cd**	**111**	**0.008**	ug/L	0.002	24	1	3	15	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	53	3	1	103	KED
⌈>	**Tb**	**159**		ug/L			696628	703569	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.006	74	135	572	54	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:20:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	44929	1	Standard
	Cl	**37**		ug/L			6792206	6627791	3	Standard
>	**Sc**	**45**		ug/L			386202	402005	0	Standard
	Cr	**52**	**24.619**	ug/L	0.124	0	15278	479015	0	Standard
	Cr	**53**	**24.084**	ug/L	0.393	1	340	53748	1	Standard
	Mn	**55**	**25.348**	ug/L	0.124	0	704	697690	0	Standard
>	**Ge**	**72**		ug/L			27053	27773	1	KED
	Ni	**60**	**26.139**	ug/L	0.764	2	4	36556	1	KED
	Ni	**62**	**26.030**	ug/L	0.391	1	3	5871	0	KED
	Cu	**63**	**26.861**	ug/L	0.257	0	28	106422	0	KED
	Cu	**65**	**26.692**	ug/L	0.669	2	10	53763	0	KED
	Zn	**66**	**80.595**	ug/L	2.894	3	8	41589	1	KED
	Zn	**67**	**77.386**	ug/L	1.372	1	2	6654	1	KED
	As	**75**	**24.469**	ug/L	0.622	2	2	7047	0	KED
	Se	**78**	**75.263**	ug/L	2.027	2	11	2001	1	KED
	Y	**89**		ug/L			216612	226898	0	Standard
	Kr	**83**		ug/L			36	68	23	Standard
>	**In-1**	**115**		ug/L			6208	6569	2	KED
	Mo	**98**	**0.002**	ug/L	0.001	50	6	9	13	KED
	Cd	**111**	**24.670**	ug/L	0.710	2	1	7585	1	KED
	Cd	**114**	**24.437**	ug/L	0.254	1	3	19068	1	KED
>	**Tb**	**159**		ug/L			696628	707745	0	Standard
	Pb	**208**	**28.445**	ug/L	0.506	1	135	1664451	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0108-BLK2
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:25:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	34560	2	Standard
	Cl	**37**		ug/L			6792206	7513515	1	Standard
⌈>	**Sc**	**45**		ug/L			386202	388882	0	Standard
|	**Cr**	**52**	**0.193**	ug/L	0.027	13	15278	18897	3	Standard
|	**Cr**	**53**	**1.512**	ug/L	0.060	3	340	3585	2	Standard
⌊	**Mn**	**55**	**0.050**	ug/L	0.003	5	704	2036	3	Standard
⌈>	**Ge**	**72**		ug/L			27053	26260	2	KED
|	**Ni**	**60**	**0.165**	ug/L	0.013	7	4	222	7	KED
|	**Ni**	**62**	**0.191**	ug/L	0.014	7	3	43	4	KED
|	**Cu**	**63**	**0.239**	ug/L	0.014	6	28	920	4	KED
|	**Cu**	**65**	**0.237**	ug/L	0.010	4	10	460	1	KED
|	**Zn**	**66**	**1.109**	ug/L	0.036	3	8	549	2	KED
|	**Zn**	**67**	**1.009**	ug/L	0.038	3	2	84	1	KED
|	**As**	**75**	**0.006**	ug/L	0.009	155	2	4	61	KED
⌊	**Se**	**78**	**0.077**	ug/L	0.143	186	11	13	27	KED
	Y	**89**		ug/L			216612	219801	0	Standard
	Kr	**83**		ug/L			36	43	15	Standard
⌈>	**In-1**	**115**		ug/L			6208	6100	2	KED
|	**Mo**	**98**	**0.003**	ug/L	0.002	63	6	10	21	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	114	1	2	57	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	190	3	4	51	KED
⌈>	**Tb**	**159**		ug/L			696628	679566	1	Standard
⌊	**Pb**	**208**	**0.246**	ug/L	0.006	2	135	13949	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0484-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:30:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	52708	0	Standard
	Cl	**37**		ug/L			6792206	7055890	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	386824	1	Standard
|	**Cr**	**52**	**0.632**	ug/L	0.030	4	15278	26741	2	Standard
|	**Cr**	**53**	**1.154**	ug/L	0.025	2	340	2802	1	Standard
⌊	**Mn**	**55**	**4.772**	ug/L	0.087	1	704	126934	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	26798	1	KED
|	**Ni**	**60**	**0.417**	ug/L	0.018	4	4	567	4	KED
|	**Ni**	**62**	**0.377**	ug/L	0.043	11	3	85	10	KED
|	**Cu**	**63**	**2.432**	ug/L	0.000	0	28	9325	1	KED
|	**Cu**	**65**	**2.436**	ug/L	0.095	3	10	4743	2	KED
|	**Zn**	**66**	**27.740**	ug/L	0.899	3	8	13821	2	KED
|	**Zn**	**67**	**27.382**	ug/L	1.319	4	2	2273	3	KED
|	**As**	**75**	**0.183**	ug/L	0.030	16	2	53	14	KED
⌊	**Se**	**78**	**0.122**	ug/L	0.068	56	11	14	11	KED
	Y	**89**		ug/L			216612	224667	1	Standard
	Kr	**83**		ug/L			36	45	13	Standard
⌈>	**In-1**	**115**		ug/L			6208	6035	1	KED
|	**Mo**	**98**	**0.061**	ug/L	0.002	3	6	89	3	KED
|	**Cd**	**111**	**0.023**	ug/L	0.013	58	1	7	50	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.009	54	3	14	41	KED
⌈>	**Tb**	**159**		ug/L			696628	688006	0	Standard
⌊	**Pb**	**208**	**1.350**	ug/L	0.011	0	135	76932	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0484-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:35:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	44913	3	Standard
	Cl	**37**		ug/L			6792206	6951798	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	384905	1	Standard
|	**Cr**	**52**	**0.444**	ug/L	0.025	5	15278	23222	3	Standard
|	**Cr**	**53**	**0.953**	ug/L	0.005	0	340	2361	1	Standard
⌊	**Mn**	**55**	**1.382**	ug/L	0.011	0	704	37092	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	27137	2	KED
|	**Ni**	**60**	**0.061**	ug/L	0.005	7	4	88	8	KED
|	**Ni**	**62**	**0.063**	ug/L	0.016	25	3	17	22	KED
|	**Cu**	**63**	**0.384**	ug/L	0.010	2	28	1516	4	KED
|	**Cu**	**65**	**0.381**	ug/L	0.011	3	10	760	4	KED
|	**Zn**	**66**	**13.947**	ug/L	0.034	0	8	7043	2	KED
|	**Zn**	**67**	**12.436**	ug/L	0.586	4	2	1046	2	KED
|	**As**	**75**	**0.093**	ug/L	0.019	20	2	28	20	KED
⌊	**Se**	**78**	**-0.070**	ug/L	0.073	104	11	10	19	KED
	Y	**89**		ug/L			216612	222381	1	Standard
	Kr	**83**		ug/L			36	48	9	Standard
⌈>	**In-1**	**115**		ug/L			6208	6099	0	KED
|	**Mo**	**98**	**0.044**	ug/L	0.005	10	6	67	10	KED
|	**Cd**	**111**	**0.010**	ug/L	0.010	100	1	4	70	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	49	3	6	26	KED
⌈>	**Tb**	**159**		ug/L			696628	690555	2	Standard
⌊	**Pb**	**208**	**0.041**	ug/L	0.002	3	135	2489	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0619-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:39:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	44340	4	Standard
	Cl	**37**		ug/L			6792206	6982765	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	386794	0	Standard
|	**Cr**	**52**	**0.368**	ug/L	0.021	5	15278	21960	2	Standard
|	**Cr**	**53**	**0.853**	ug/L	0.036	4	340	2159	4	Standard
⌊	**Mn**	**55**	**1.388**	ug/L	0.006	0	704	37421	0	Standard
⌈>	**Ge**	**72**		ug/L			27053	27772	2	KED
|	**Ni**	**60**	**0.061**	ug/L	0.010	16	4	90	16	KED
|	**Ni**	**62**	**0.047**	ug/L	0.012	25	3	13	20	KED
|	**Cu**	**63**	**0.405**	ug/L	0.011	2	28	1631	0	KED
|	**Cu**	**65**	**0.428**	ug/L	0.042	9	10	871	8	KED
|	**Zn**	**66**	**13.497**	ug/L	0.495	3	8	6971	1	KED
|	**Zn**	**67**	**12.897**	ug/L	0.166	1	2	1111	1	KED
|	**As**	**75**	**0.080**	ug/L	0.013	16	2	25	15	KED
⌊	**Se**	**78**	**0.036**	ug/L	0.027	76	11	13	5	KED
	Y	**89**		ug/L			216612	221376	1	Standard
	Kr	**83**		ug/L			36	51	20	Standard
⌈>	**In-1**	**115**		ug/L			6208	6405	1	KED
|	**Mo**	**98**	**0.040**	ug/L	0.005	12	6	63	11	KED
|	**Cd**	**111**	**0.013**	ug/L	0.007	58	1	5	43	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	141	3	4	44	KED
⌈>	**Tb**	**159**		ug/L			696628	702953	0	Standard
⌊	**Pb**	**208**	**0.040**	ug/L	0.001	2	135	2436	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0619-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:44:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	44649	3	Standard
	Cl	**37**		ug/L			6792206	6969751	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	386690	1	Standard
|	**Cr**	**52**	**25.659**	ug/L	0.888	3	15278	479585	3	Standard
|	**Cr**	**53**	**26.196**	ug/L	0.464	1	340	56213	2	Standard
⌊	**Mn**	**55**	**27.459**	ug/L	0.664	2	704	726808	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	27837	0	KED
|	**Ni**	**60**	**26.181**	ug/L	0.158	0	4	36712	0	KED
|	**Ni**	**62**	**26.312**	ug/L	0.878	3	3	5949	3	KED
|	**Cu**	**63**	**26.576**	ug/L	0.325	1	28	105547	1	KED
|	**Cu**	**65**	**26.707**	ug/L	0.222	0	10	53931	0	KED
|	**Zn**	**66**	**94.498**	ug/L	1.683	1	8	48894	1	KED
|	**Zn**	**67**	**88.459**	ug/L	1.795	2	2	7624	1	KED
|	**As**	**75**	**24.496**	ug/L	0.090	0	2	7073	0	KED
⌊	**Se**	**78**	**75.657**	ug/L	2.112	2	11	2017	2	KED
	Y	**89**		ug/L			216612	222994	1	Standard
	Kr	**83**		ug/L			36	68	7	Standard
⌈>	**In-1**	**115**		ug/L			6208	6234	3	KED
|	**Mo**	**98**	**0.049**	ug/L	0.008	16	6	74	14	KED
|	**Cd**	**111**	**25.689**	ug/L	1.124	4	1	7491	1	KED
⌊	**Cd**	**114**	**25.714**	ug/L	1.282	4	3	19022	2	KED
⌈>	**Tb**	**159**		ug/L			696628	691422	0	Standard
⌊	**Pb**	**208**	**28.658**	ug/L	0.371	1	135	1638363	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:49:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	28603	2	Standard
	Cl	**37**		ug/L			6792206	6600716	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	391683	0	Standard
|	**Cr**	**52**	**-0.026**	ug/L	0.012	44	15278	15026	1	Standard
|	**Cr**	**53**	**-0.023**	ug/L	0.008	36	340	295	5	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.001	37	704	666	3	Standard
⌈>	**Ge**	**72**		ug/L			27053	27692	0	KED
|	**Ni**	**60**	**0.041**	ug/L	0.008	19	4	62	17	KED
|	**Ni**	**62**	**0.059**	ug/L	0.026	44	3	16	35	KED
|	**Cu**	**63**	**0.007**	ug/L	0.003	49	28	57	24	KED
|	**Cu**	**65**	**0.007**	ug/L	0.002	27	10	24	16	KED
|	**Zn**	**66**	**0.043**	ug/L	0.002	5	8	31	3	KED
|	**Zn**	**67**	**0.051**	ug/L	0.025	49	2	6	31	KED
|	**As**	**75**	**0.007**	ug/L	0.004	62	2	4	26	KED
⌊	**Se**	**78**	**0.013**	ug/L	0.111	845	11	12	23	KED
	Y	**89**		ug/L			216612	221318	2	Standard
	Kr	**83**		ug/L			36	59	12	Standard
⌈>	**In-1**	**115**		ug/L			6208	6327	2	KED
|	**Mo**	**98**	**-0.001**	ug/L	0.002	348	6	5	53	KED
|	**Cd**	**111**	**0.011**	ug/L	0.010	94	1	4	65	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.001	614	3	2	37	KED
⌈>	**Tb**	**159**		ug/L			696628	690331	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	12	135	374	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 20:54:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	32661	2	Standard
	Cl	**37**		ug/L			6792206	6898329	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	393178	1	Standard
|	**Cr**	**52**	**48.737**	ug/L	0.940	1	15278	912122	0	Standard
|	**Cr**	**53**	**48.490**	ug/L	2.262	4	340	105462	3	Standard
⌊	**Mn**	**55**	**48.574**	ug/L	1.079	2	704	1306758	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	26855	0	KED
|	**Ni**	**60**	**51.599**	ug/L	0.634	1	4	69794	0	KED
|	**Ni**	**62**	**51.426**	ug/L	0.119	0	3	11214	0	KED
|	**Cu**	**63**	**52.026**	ug/L	0.492	0	28	199301	0	KED
|	**Cu**	**65**	**53.122**	ug/L	0.461	0	10	103483	1	KED
|	**Zn**	**66**	**51.149**	ug/L	1.107	2	8	25533	1	KED
|	**Zn**	**67**	**51.472**	ug/L	2.046	3	2	4280	3	KED
|	**As**	**75**	**50.755**	ug/L	0.523	1	2	14136	0	KED
⌊	**Se**	**78**	**49.991**	ug/L	0.399	0	11	1290	1	KED
	Y	**89**		ug/L			216612	221154	3	Standard
	Kr	**83**		ug/L			36	56	27	Standard
⌈>	**In-1**	**115**		ug/L			6208	6096	1	KED
|	**Mo**	**98**	**50.679**	ug/L	1.090	2	6	69047	0	KED
|	**Cd**	**111**	**51.851**	ug/L	0.801	1	1	14797	0	KED
⌊	**Cd**	**114**	**52.203**	ug/L	0.373	0	3	37803	1	KED
⌈>	**Tb**	**159**		ug/L			696628	701172	1	Standard
⌊	**Pb**	**208**	**54.802**	ug/L	0.879	1	135	3176773	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:01:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	26600	2	Standard
	Cl	**37**		ug/L			6792206	6632640	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	385041	2	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.012	370	15278	15169	1	Standard
|	**Cr**	**53**	**-0.037**	ug/L	0.007	18	340	261	2	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	118	704	671	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	26718	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.004	108	4	8	53	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.009	151	3	1	100	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	36	28	43	11	KED
|	**Cu**	**65**	**0.005**	ug/L	0.001	21	10	20	10	KED
|	**Zn**	**66**	**0.009**	ug/L	0.020	220	8	13	75	KED
|	**Zn**	**67**	**-0.007**	ug/L	0.000	5	2	1		KED
|	**As**	**75**	**0.013**	ug/L	0.011	85	2	6	48	KED
⌊	**Se**	**78**	**0.057**	ug/L	0.106	186	11	13	20	KED
	Y	**89**		ug/L			216612	217438	1	Standard
	Kr	**83**		ug/L			36	58	19	Standard
⌈>	**In-1**	**115**		ug/L			6208	6254	3	KED
|	**Mo**	**98**	**0.001**	ug/L	0.002	169	6	8	34	KED
|	**Cd**	**111**	**0.016**	ug/L	0.012	73	1	6	55	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	67	3	4	23	KED
⌈>	**Tb**	**159**		ug/L			696628	687720	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	81	135	205	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-01RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:08:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	34315	0	Standard
	Cl	**37**		ug/L			6792206	11606966	0	Standard
⌈>	**Sc**	**45**		ug/L			386202	388680	1	Standard
|	**Cr**	**52**	**0.438**	ug/L	0.013	2	15278	23342	2	Standard
|	**Cr**	**53**	**10.720**	ug/L	0.019	0	340	23321	1	Standard
⌊	**Mn**	**55**	**6.147**	ug/L	0.030	0	704	164120	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	25304	1	KED
|	**Ni**	**60**	**1.238**	ug/L	0.072	5	4	1581	4	KED
|	**Ni**	**62**	**1.190**	ug/L	0.163	13	3	247	14	KED
|	**Cu**	**63**	**0.820**	ug/L	0.010	1	28	2984	0	KED
|	**Cu**	**65**	**0.875**	ug/L	0.045	5	10	1615	3	KED
|	**Zn**	**66**	**5.577**	ug/L	0.038	0	8	2630	1	KED
|	**Zn**	**67**	**4.939**	ug/L	0.436	8	2	389	8	KED
|	**As**	**75**	**0.030**	ug/L	0.007	21	2	10	16	KED
⌊	**Se**	**78**	**0.090**	ug/L	0.067	74	11	13	12	KED
	Y	**89**		ug/L			216612	211928	2	Standard
	Kr	**83**		ug/L			36	53	6	Standard
⌈>	**In-1**	**115**		ug/L			6208	5919	0	KED
|	**Mo**	**98**	**0.368**	ug/L	0.026	7	6	493	6	KED
|	**Cd**	**111**	**0.235**	ug/L	0.019	8	1	66	7	KED
⌊	**Cd**	**114**	**0.194**	ug/L	0.027	13	3	139	13	KED
⌈>	**Tb**	**159**		ug/L			696628	682153	0	Standard
⌊	**Pb**	**208**	**0.839**	ug/L	0.003	0	135	47439	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-02RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:16:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	35698	2	Standard
	Cl	**37**		ug/L			6792206	10861268	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	391374	1	Standard
|	**Cr**	**52**	**0.444**	ug/L	0.013	3	15278	23605	0	Standard
|	**Cr**	**53**	**9.223**	ug/L	0.140	1	340	20251	1	Standard
⌊	**Mn**	**55**	**0.903**	ug/L	0.020	2	704	24876	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	25381	0	KED
|	**Ni**	**60**	**2.391**	ug/L	0.092	3	4	3060	3	KED
|	**Ni**	**62**	**2.543**	ug/L	0.058	2	3	526	2	KED
|	**Cu**	**63**	**12.021**	ug/L	0.032	0	28	43546	1	KED
|	**Cu**	**65**	**12.103**	ug/L	0.281	2	10	22287	1	KED
|	**Zn**	**66**	**15.394**	ug/L	0.502	3	8	7268	2	KED
|	**Zn**	**67**	**15.122**	ug/L	0.278	1	2	1190	2	KED
|	**As**	**75**	**0.026**	ug/L	0.001	3	2	9	2	KED
⌊	**Se**	**78**	**0.149**	ug/L	0.170	114	11	14	28	KED
	Y	**89**		ug/L			216612	215168	1	Standard
	Kr	**83**		ug/L			36	59	3	Standard
⌈>	**In-1**	**115**		ug/L			6208	5966	1	KED
|	**Mo**	**98**	**0.435**	ug/L	0.013	3	6	586	3	KED
|	**Cd**	**111**	**0.361**	ug/L	0.074	20	1	101	18	KED
⌊	**Cd**	**114**	**0.382**	ug/L	0.012	3	3	273	1	KED
⌈>	**Tb**	**159**		ug/L			696628	683040	2	Standard
⌊	**Pb**	**208**	**7.839**	ug/L	0.191	2	135	442704	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-03RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:22:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	36000	1	Standard
	Cl	**37**		ug/L			6792206	10407325	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	392042	1	Standard
|	**Cr**	**52**	**0.369**	ug/L	0.005	1	15278	22282	1	Standard
|	**Cr**	**53**	**8.128**	ug/L	0.095	1	340	17919	1	Standard
⌊	**Mn**	**55**	**29.880**	ug/L	0.297	0	704	801933	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	26249	0	KED
|	**Ni**	**60**	**1.269**	ug/L	0.049	3	4	1682	3	KED
|	**Ni**	**62**	**1.314**	ug/L	0.147	11	3	283	11	KED
|	**Cu**	**63**	**0.802**	ug/L	0.030	3	28	3028	2	KED
|	**Cu**	**65**	**0.806**	ug/L	0.037	4	10	1543	3	KED
|	**Zn**	**66**	**6.958**	ug/L	0.114	1	8	3402	1	KED
|	**Zn**	**67**	**6.789**	ug/L	0.421	6	2	554	6	KED
|	**As**	**75**	**0.087**	ug/L	0.024	27	2	26	24	KED
⌊	**Se**	**78**	**0.108**	ug/L	0.034	31	11	14	6	KED
	Y	**89**		ug/L			216612	215843	0	Standard
	Kr	**83**		ug/L			36	61	4	Standard
⌈>	**In-1**	**115**		ug/L			6208	6010	1	KED
|	**Mo**	**98**	**0.310**	ug/L	0.034	11	6	423	10	KED
|	**Cd**	**111**	**0.196**	ug/L	0.047	23	1	56	22	KED
⌊	**Cd**	**114**	**0.186**	ug/L	0.024	12	3	135	11	KED
⌈>	**Tb**	**159**		ug/L			696628	688615	0	Standard
⌊	**Pb**	**208**	**1.009**	ug/L	0.017	1	135	57588	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-04RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:28:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	35039	0	Standard
	Cl	**37**		ug/L			6792206	10770961	2	Standard
>	**Sc**	**45**		ug/L			386202	394800	2	Standard
	Cr	**52**	**0.377**	ug/L	0.021	5	15278	22575	1	Standard
	Cr	**53**	**8.468**	ug/L	0.090	1	340	18783	1	Standard
	Mn	**55**	**10.681**	ug/L	0.155	1	704	289113	2	Standard
>	**Ge**	**72**		ug/L			27053	26238	1	KED
	Ni	**60**	**0.974**	ug/L	0.006	0	4	1291	1	KED
	Ni	**62**	**1.025**	ug/L	0.210	20	3	221	20	KED
	Cu	**63**	**0.820**	ug/L	0.007	0	28	3097	1	KED
	Cu	**65**	**0.807**	ug/L	0.030	3	10	1546	3	KED
	Zn	**66**	**16.501**	ug/L	0.198	1	8	8053	0	KED
	Zn	**67**	**15.599**	ug/L	0.927	5	2	1269	5	KED
	As	**75**	**0.028**	ug/L	0.008	27	2	10	21	KED
	Se	**78**	**0.109**	ug/L	0.030	27	11	14	5	KED
	Y	**89**		ug/L			216612	214161	2	Standard
	Kr	**83**		ug/L			36	58	14	Standard
>	**In-1**	**115**		ug/L			6208	5952	0	KED
	Mo	**98**	**0.514**	ug/L	0.021	4	6	690	4	KED
	Cd	**111**	**0.141**	ug/L	0.042	29	1	40	29	KED
	Cd	**114**	**0.149**	ug/L	0.022	14	3	108	13	KED
>	**Tb**	**159**		ug/L			696628	679745	1	Standard
	Pb	**208**	**0.149**	ug/L	0.006	4	135	8517	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-05RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:35:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	35428	3	Standard
	Cl	**37**		ug/L			6792206	9392818	4	Standard
⌈>	**Sc**	**45**		ug/L			386202	390714	2	Standard
|	**Cr**	**52**	**0.447**	ug/L	0.046	10	15278	23623	1	Standard
|	**Cr**	**53**	**6.059**	ug/L	0.164	2	340	13397	2	Standard
⌊	**Mn**	**55**	**32.130**	ug/L	1.084	3	704	858904	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	25937	0	KED
|	**Ni**	**60**	**12.914**	ug/L	0.124	0	4	16874	0	KED
|	**Ni**	**62**	**12.740**	ug/L	0.440	3	3	2685	2	KED
|	**Cu**	**63**	**4.923**	ug/L	0.034	0	28	18240	0	KED
|	**Cu**	**65**	**5.027**	ug/L	0.028	0	10	9467	1	KED
|	**Zn**	**66**	**12.531**	ug/L	0.240	1	8	6048	1	KED
|	**Zn**	**67**	**11.476**	ug/L	0.327	2	2	923	2	KED
|	**As**	**75**	**0.333**	ug/L	0.010	3	2	92	2	KED
⌊	**Se**	**78**	**0.097**	ug/L	0.171	177	11	13	30	KED
	Y	**89**		ug/L			216612	220415	1	Standard
	Kr	**83**		ug/L			36	45	12	Standard
⌈>	**In-1**	**115**		ug/L			6208	5727	2	KED
|	**Mo**	**98**	**0.218**	ug/L	0.016	7	6	285	5	KED
|	**Cd**	**111**	**0.655**	ug/L	0.059	9	1	176	6	KED
⌊	**Cd**	**114**	**0.657**	ug/L	0.046	7	3	450	9	KED
⌈>	**Tb**	**159**		ug/L			696628	677700	1	Standard
⌊	**Pb**	**208**	**1.661**	ug/L	0.024	1	135	93181	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-06RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:41:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	36026	1	Standard
	Cl	**37**		ug/L			6792206	10922468	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	393625	2	Standard
|	**Cr**	**52**	**0.340**	ug/L	0.033	9	15278	21831	0	Standard
|	**Cr**	**53**	**9.343**	ug/L	0.224	2	340	20623	1	Standard
⌊	**Mn**	**55**	**31.445**	ug/L	0.636	2	704	847006	0	Standard
⌈>	**Ge**	**72**		ug/L			27053	24995	1	KED
|	**Ni**	**60**	**1.510**	ug/L	0.017	1	4	1904	0	KED
|	**Ni**	**62**	**1.677**	ug/L	0.261	15	3	342	14	KED
|	**Cu**	**63**	**1.050**	ug/L	0.028	2	28	3770	1	KED
|	**Cu**	**65**	**1.080**	ug/L	0.048	4	10	1967	3	KED
|	**Zn**	**66**	**10.415**	ug/L	0.117	1	8	4845	0	KED
|	**Zn**	**67**	**9.869**	ug/L	0.502	5	2	765	4	KED
|	**As**	**75**	**0.301**	ug/L	0.037	12	2	80	12	KED
⌊	**Se**	**78**	**0.162**	ug/L	0.043	26	11	14	8	KED
	Y	**89**		ug/L			216612	215212	1	Standard
	Kr	**83**		ug/L			36	62	17	Standard
⌈>	**In-1**	**115**		ug/L			6208	5549	2	KED
|	**Mo**	**98**	**0.387**	ug/L	0.014	3	6	486	5	KED
|	**Cd**	**111**	**0.109**	ug/L	0.029	26	1	29	25	KED
⌊	**Cd**	**114**	**0.094**	ug/L	0.015	15	3	65	16	KED
⌈>	**Tb**	**159**		ug/L			696628	684354	3	Standard
⌊	**Pb**	**208**	**0.255**	ug/L	0.010	4	135	14546	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-07RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:47:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	36188	2	Standard
	Cl	**37**		ug/L			6792206	10839946	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	382098	1	Standard
|	**Cr**	**52**	**0.355**	ug/L	0.024	6	15278	21464	3	Standard
|	**Cr**	**53**	**9.143**	ug/L	0.264	2	340	19603	3	Standard
⌊	**Mn**	**55**	**10.320**	ug/L	0.234	2	704	270323	0	Standard
⌈>	**Ge**	**72**		ug/L			27053	24677	0	KED
|	**Ni**	**60**	**1.223**	ug/L	0.051	4	4	1524	3	KED
|	**Ni**	**62**	**1.234**	ug/L	0.101	8	3	250	8	KED
|	**Cu**	**63**	**0.715**	ug/L	0.021	2	28	2543	2	KED
|	**Cu**	**65**	**0.749**	ug/L	0.028	3	10	1349	3	KED
|	**Zn**	**66**	**209.094**	ug/L	1.388	0	8	95898	0	KED
|	**Zn**	**67**	**192.098**	ug/L	3.554	1	2	14675	1	KED
|	**As**	**75**	**0.025**	ug/L	0.005	22	2	8	15	KED
⌊	**Se**	**78**	**0.170**	ug/L	0.162	94	11	14	26	KED
	Y	**89**		ug/L			216612	208788	3	Standard
	Kr	**83**		ug/L			36	50	19	Standard
⌈>	**In-1**	**115**		ug/L			6208	5605	2	KED
|	**Mo**	**98**	**0.616**	ug/L	0.047	7	6	778	9	KED
|	**Cd**	**111**	**0.155**	ug/L	0.042	27	1	41	24	KED
⌊	**Cd**	**114**	**0.146**	ug/L	0.017	11	3	99	9	KED
⌈>	**Tb**	**159**		ug/L			696628	667263	1	Standard
⌊	**Pb**	**208**	**0.308**	ug/L	0.004	1	135	17127	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-08RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 21:53:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	35163	3	Standard
	Cl	**37**		ug/L			6792206	11200856	1	Standard
>	**Sc**	**45**		ug/L			386202	372990	1	Standard
	Cr	**52**	**0.415**	ug/L	0.008	1	15278	21991	1	Standard
	Cr	**53**	**9.800**	ug/L	0.187	1	340	20485	2	Standard
	Mn	**55**	**29.358**	ug/L	0.717	2	704	749412	0	Standard
>	**Ge**	**72**		ug/L			27053	24536	1	KED
	Ni	**60**	**1.282**	ug/L	0.025	1	4	1588	1	KED
	Ni	**62**	**1.363**	ug/L	0.038	2	3	274	2	KED
	Cu	**63**	**0.812**	ug/L	0.012	1	28	2867	1	KED
	Cu	**65**	**0.825**	ug/L	0.036	4	10	1478	5	KED
	Zn	**66**	**8.163**	ug/L	0.076	0	8	3730	0	KED
	Zn	**67**	**7.399**	ug/L	0.678	9	2	563	7	KED
	As	**75**	**0.056**	ug/L	0.008	14	2	16	11	KED
	Se	**78**	**0.224**	ug/L	0.244	108	11	15	34	KED
	Y	**89**		ug/L			216612	203253	1	Standard
	Kr	**83**		ug/L			36	59	17	Standard
>	**In-1**	**115**		ug/L			6208	5562	2	KED
	Mo	**98**	**0.397**	ug/L	0.038	9	6	499	7	KED
	Cd	**111**	**0.194**	ug/L	0.008	4	1	51	2	KED
	Cd	**114**	**0.192**	ug/L	0.051	26	3	129	23	KED
>	**Tb**	**159**		ug/L			696628	662386	0	Standard
	Pb	**208**	**0.241**	ug/L	0.004	1	135	13321	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0403-09RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:01:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	35668	0	Standard
	Cl	**37**		ug/L			6792206	7680918	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	382388	1	Standard
|	**Cr**	**52**	**0.299**	ug/L	0.014	4	15278	20477	1	Standard
|	**Cr**	**53**	**2.382**	ug/L	0.053	2	340	5360	2	Standard
⌊	**Mn**	**55**	**0.617**	ug/L	0.017	2	704	16821	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	25944	0	KED
|	**Ni**	**60**	**0.547**	ug/L	0.034	6	4	718	5	KED
|	**Ni**	**62**	**0.489**	ug/L	0.084	17	3	106	17	KED
|	**Cu**	**63**	**9.844**	ug/L	0.218	2	28	36456	2	KED
|	**Cu**	**65**	**9.934**	ug/L	0.268	2	10	18701	2	KED
|	**Zn**	**66**	**66.990**	ug/L	1.318	1	8	32305	1	KED
|	**Zn**	**67**	**63.312**	ug/L	1.410	2	2	5086	1	KED
|	**As**	**75**	**0.002**	ug/L	0.006	261	2	3	48	KED
⌊	**Se**	**78**	**0.071**	ug/L	0.247	347	11	13	46	KED
	Y	**89**		ug/L			216612	215991	0	Standard
	Kr	**83**		ug/L			36	54	23	Standard
⌈>	**In-1**	**115**		ug/L			6208	6032	1	KED
|	**Mo**	**98**	**0.205**	ug/L	0.012	5	6	283	7	KED
|	**Cd**	**111**	**0.023**	ug/L	0.006	26	1	7	21	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.002	16	3	12	12	KED
⌈>	**Tb**	**159**		ug/L			696628	687585	1	Standard
⌊	**Pb**	**208**	**3.020**	ug/L	0.042	1	135	171808	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:07:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	29913	1	Standard
	Cl	**37**		ug/L			6792206	6949963	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	379337	2	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.027	90	15278	15525	2	Standard
|	**Cr**	**53**	**0.212**	ug/L	0.015	7	340	777	4	Standard
⌊	**Mn**	**55**	**0.013**	ug/L	0.001	8	704	1031	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	26281	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.001	371	4	3	50	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.000	1	3	1		KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	71	28	38	20	KED
|	**Cu**	**65**	**0.004**	ug/L	0.006	174	10	16	69	KED
|	**Zn**	**66**	**0.023**	ug/L	0.005	20	8	19	11	KED
|	**Zn**	**67**	**0.024**	ug/L	0.013	54	2	4	24	KED
|	**As**	**75**	**0.002**	ug/L	0.003	135	2	3	22	KED
⌊	**Se**	**78**	**0.110**	ug/L	0.101	91	11	14	18	KED
	Y	**89**		ug/L			216612	213363	0	Standard
	Kr	**83**		ug/L			36	57	27	Standard
⌈>	**In-1**	**115**		ug/L			6208	6122	1	KED
|	**Mo**	**98**	**-0.000**	ug/L	0.002	363	6	6	35	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.003	310	1	0	100	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	117	3	1	197	KED
⌈>	**Tb**	**159**		ug/L			696628	676178	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	21	135	207	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:12:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	29979	1	Standard
	Cl	**37**		ug/L			6792206	7006065	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	374554	1	Standard
|	**Cr**	**52**	**48.581**	ug/L	0.403	0	15278	866211	0	Standard
|	**Cr**	**53**	**48.294**	ug/L	0.464	0	340	100100	2	Standard
⌊	**Mn**	**55**	**49.153**	ug/L	0.533	1	704	1259778	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	26119	0	KED
|	**Ni**	**60**	**49.977**	ug/L	0.357	0	4	65754	1	KED
|	**Ni**	**62**	**50.146**	ug/L	1.753	3	3	10635	3	KED
|	**Cu**	**63**	**51.424**	ug/L	1.101	2	28	191588	1	KED
|	**Cu**	**65**	**52.278**	ug/L	0.267	0	10	99047	1	KED
|	**Zn**	**66**	**50.532**	ug/L	1.358	2	8	24537	3	KED
|	**Zn**	**67**	**49.662**	ug/L	1.869	3	2	4017	3	KED
|	**As**	**75**	**49.535**	ug/L	0.529	1	2	13418	0	KED
⌊	**Se**	**78**	**47.733**	ug/L	0.393	0	11	1198	0	KED
	Y	**89**		ug/L			216612	210578	3	Standard
	Kr	**83**		ug/L			36	52	28	Standard
⌈>	**In-1**	**115**		ug/L			6208	5836	2	KED
|	**Mo**	**98**	**50.638**	ug/L	0.691	1	6	66040	1	KED
|	**Cd**	**111**	**51.528**	ug/L	0.711	1	1	14075	1	KED
⌊	**Cd**	**114**	**52.016**	ug/L	1.193	2	3	36044	0	KED
⌈>	**Tb**	**159**		ug/L			696628	680470	1	Standard
⌊	**Pb**	**208**	**54.759**	ug/L	1.413	2	135	3080378	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:19:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	26107	2	Standard
	Cl	**37**		ug/L			6792206	6665140	2	Standard
⎡>	**Sc**	**45**		ug/L			386202	361094	2	Standard
⎢	**Cr**	**52**	**0.037**	ug/L	0.014	36	15278	14913	2	Standard
⎢	**Cr**	**53**	**0.092**	ug/L	0.003	3	340	501	2	Standard
⎣	**Mn**	**55**	**0.007**	ug/L	0.002	25	704	836	7	Standard
⎡>	**Ge**	**72**		ug/L			27053	25592	1	KED
⎢	**Ni**	**60**	**0.004**	ug/L	0.002	60	4	8	32	KED
⎢	**Ni**	**62**	**-0.002**	ug/L	0.005	228	3	2	43	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.004	121	28	39	38	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.005	74	10	20	39	KED
⎢	**Zn**	**66**	**0.016**	ug/L	0.005	31	8	15	13	KED
⎢	**Zn**	**67**	**-0.022**	ug/L	0.014	61	2	0	173	KED
⎢	**As**	**75**	**0.001**	ug/L	0.004	843	2	2	44	KED
⎣	**Se**	**78**	**0.097**	ug/L	0.143	147	11	13	26	KED
	Y	**89**		ug/L			216612	204366	2	Standard
	Kr	**83**		ug/L			36	45	2	Standard
⎡>	**In-1**	**115**		ug/L			6208	5951	0	KED
⎢	**Mo**	**98**	**0.001**	ug/L	0.001	197	6	7	25	KED
⎢	**Cd**	**111**	**0.004**	ug/L	0.005	145	1	2	65	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.003	254	3	3	51	KED
⎡>	**Tb**	**159**		ug/L			696628	655881	0	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	10	135	184	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-12

Sample Dil Factor: 20

DEL

Comments:

Sample Date/Time: Wednesday, December 28, 2022 22:24:41

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	52408	1	Standard
	Cl	**37**		ug/L			6792206	6628944	2	Standard
>	**Sc**	**45**		ug/L			386202	453323	0	Standard
	Cr	**52**	**7.426**	ug/L	0.256	3	15278	175450	2	Standard
	Cr	**53**	**7.431**	ug/L	0.143	1	340	18977	1	Standard
	Mn	**55**	**97.352**	ug/L	1.985	2	704	3019013	1	Standard
>	**Ge**	**72**		ug/L			27053	26537	0	KED
	Ni	**60**	**8.139**	ug/L	0.168	2	4	10882	2	KED
	Ni	**62**	**8.341**	ug/L	0.234	2	3	1800	2	KED
	Cu	**63**	**31.977**	ug/L	0.250	0	28	121057	0	KED
	Cu	**65**	**32.348**	ug/L	0.238	0	10	62271	1	KED
	Zn	**66**	**30.195**	ug/L	0.692	2	8	14898	1	KED
	Zn	**67**	**29.427**	ug/L	0.429	1	2	2419	1	KED
	As	**75**	**1071.836**	ug/L	8.008	0	2	294945	0	KED
	Se	**78**	**0.908**	ug/L	0.072	7	11	34	4	KED
	Y	**89**		ug/L			216612	554067	0	Standard
	Kr	**83**		ug/L			36	73	20	Standard
>	**In-1**	**115**		ug/L			6208	5942	2	KED
	Mo	**98**	**0.771**	ug/L	0.080	10	6	1028	7	KED
	Cd	**111**	**0.052**	ug/L	0.016	31	1	15	27	KED
	Cd	**114**	**0.059**	ug/L	0.008	13	3	44	10	KED
>	**Tb**	**159**		ug/L			696628	748164	1	Standard
	Pb	**208**	**1.437**	ug/L	0.004	0	135	89041	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:29:22

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	48952	3	Standard
	Cl	**37**		ug/L			6792206	6529582	4	Standard
>	**Sc**	**45**		ug/L			386202	435075	6	Standard
	Cr	**52**	**6.842**	ug/L	0.133	1	15278	156455	5	Standard
	Cr	**53**	**6.803**	ug/L	0.068	0	340	16703	5	Standard
	Mn	**55**	**93.826**	ug/L	1.435	1	704	2792436	6	Standard
>	**Ge**	**72**		ug/L			27053	26853	1	KED
	Ni	**60**	**8.616**	ug/L	0.038	0	4	11658	1	KED
	Ni	**62**	**8.687**	ug/L	0.214	2	3	1896	1	KED
	Cu	**63**	**27.218**	ug/L	0.715	2	28	104245	0	KED
	Cu	**65**	**27.954**	ug/L	0.222	0	10	54450	1	KED
	Zn	**66**	**27.776**	ug/L	0.236	0	8	13870	1	KED
	Zn	**67**	**27.404**	ug/L	1.133	4	2	2279	2	KED
	As	**75**	**2499.451**	ug/L	43.865	1	2	695861	0	KED
	Se	**78**	**0.712**	ug/L	0.099	13	11	29	7	KED
	Y	**89**		ug/L			216612	443371	6	Standard
	Kr	**83**		ug/L			36	72	2	Standard
>	**In-1**	**115**		ug/L			6208	6012	0	KED
	Mo	**98**	**1.512**	ug/L	0.026	1	6	2038	2	KED
	Cd	**111**	**0.120**	ug/L	0.025	20	1	34	20	KED
	Cd	**114**	**0.119**	ug/L	0.015	12	3	87	11	KED
>	**Tb**	**159**		ug/L			696628	729903	3	Standard
	Pb	**208**	**1.538**	ug/L	0.008	0	135	92928	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-14
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:34:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	45496	3	Standard
	Cl	**37**		ug/L			6792206	6513830	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	435904	3	Standard
|	**Cr**	**52**	**8.435**	ug/L	0.370	4	15278	189136	0	Standard
|	**Cr**	**53**	**8.397**	ug/L	0.093	1	340	20568	2	Standard
⌊	**Mn**	**55**	**101.247**	ug/L	1.262	1	704	3018507	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	25860	1	KED
|	**Ni**	**60**	**13.827**	ug/L	0.245	1	4	18012	2	KED
|	**Ni**	**62**	**14.367**	ug/L	0.288	2	3	3018	1	KED
|	**Cu**	**63**	**22.165**	ug/L	0.364	1	28	81766	0	KED
|	**Cu**	**65**	**22.305**	ug/L	0.516	2	10	41834	0	KED
|	**Zn**	**66**	**27.073**	ug/L	0.799	2	8	13014	1	KED
|	**Zn**	**67**	**27.049**	ug/L	0.881	3	2	2167	2	KED
|	**As**	**75**	**1143.202**	ug/L	19.751	1	2	306513	1	KED
⌊	**Se**	**78**	**0.602**	ug/L	0.074	12	11	26	5	KED
	Y	**89**		ug/L			216612	409467	2	Standard
	Kr	**83**		ug/L			36	64	7	Standard
⌈>	**In-1**	**115**		ug/L			6208	5749	1	KED
|	**Mo**	**98**	**0.907**	ug/L	0.016	1	6	1171	0	KED
|	**Cd**	**111**	**0.119**	ug/L	0.031	25	1	33	23	KED
⌊	**Cd**	**114**	**0.117**	ug/L	0.019	15	3	82	14	KED
⌈>	**Tb**	**159**		ug/L			696628	720890	0	Standard
⌊	**Pb**	**208**	**1.467**	ug/L	0.011	0	135	87559	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:38:45

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	46125	2	Standard
	Cl	**37**		ug/L			6792206	6446077	4	Standard
⌈>	**Sc**	**45**		ug/L			386202	441151	2	Standard
|	**Cr**	**52**	**8.917**	ug/L	0.254	2	15278	201437	0	Standard
|	**Cr**	**53**	**8.832**	ug/L	0.020	0	340	21876	2	Standard
⌊	**Mn**	**55**	**107.698**	ug/L	0.980	0	704	3250023	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	26061	2	KED
|	**Ni**	**60**	**13.886**	ug/L	0.466	3	4	18222	1	KED
|	**Ni**	**62**	**13.768**	ug/L	0.880	6	3	2913	4	KED
|	**Cu**	**63**	**23.243**	ug/L	0.717	3	28	86391	1	KED
|	**Cu**	**65**	**23.401**	ug/L	0.095	0	10	44242	2	KED
|	**Zn**	**66**	**31.295**	ug/L	0.520	1	8	15162	1	KED
|	**Zn**	**67**	**31.007**	ug/L	0.164	0	2	2503	1	KED
|	**As**	**75**	**1120.615**	ug/L	15.652	1	2	302788	0	KED
⌊	**Se**	**78**	**0.693**	ug/L	0.050	7	11	28	3	KED
	Y	**89**		ug/L			216612	414058	2	Standard
	Kr	**83**		ug/L			36	73	10	Standard
⌈>	**In-1**	**115**		ug/L			6208	5789	2	KED
|	**Mo**	**98**	**0.967**	ug/L	0.022	2	6	1256	0	KED
|	**Cd**	**111**	**0.188**	ug/L	0.019	9	1	52	7	KED
⌊	**Cd**	**114**	**0.168**	ug/L	0.023	13	3	118	14	KED
⌈>	**Tb**	**159**		ug/L			696628	710956	0	Standard
⌊	**Pb**	**208**	**1.771**	ug/L	0.006	0	135	104223	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-11
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:43:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	44053	0	Standard
	Cl	**37**		ug/L			6792206	6446471	4	Standard
⎡>	**Sc**	**45**		ug/L			386202	426605	1	Standard
⎢	**Cr**	**52**	**7.854**	ug/L	0.103	1	15278	173662	1	Standard
⎢	**Cr**	**53**	**7.818**	ug/L	0.088	1	340	18768	0	Standard
⎣	**Mn**	**55**	**82.620**	ug/L	0.624	0	704	2411301	0	Standard
⎡>	**Ge**	**72**		ug/L			27053	25583	1	KED
⎢	**Ni**	**60**	**8.572**	ug/L	0.270	3	4	11048	2	KED
⎢	**Ni**	**62**	**8.679**	ug/L	0.253	2	3	1805	3	KED
⎢	**Cu**	**63**	**27.118**	ug/L	0.482	1	28	98980	1	KED
⎢	**Cu**	**65**	**27.522**	ug/L	0.537	1	10	51072	1	KED
⎢	**Zn**	**66**	**33.105**	ug/L	0.273	0	8	15747	0	KED
⎢	**Zn**	**67**	**32.202**	ug/L	1.067	3	2	2551	2	KED
⎢	**As**	**75**	**375.502**	ug/L	5.100	1	2	99610	0	KED
⎣	**Se**	**78**	**0.684**	ug/L	0.085	12	11	27	6	KED
	Y	**89**		ug/L			216612	392951	0	Standard
	Kr	**83**		ug/L			36	57	26	Standard
⎡>	**In-1**	**115**		ug/L			6208	5682	3	KED
⎢	**Mo**	**98**	**0.780**	ug/L	0.035	4	6	995	1	KED
⎢	**Cd**	**111**	**0.033**	ug/L	0.010	29	1	9	22	KED
⎣	**Cd**	**114**	**0.030**	ug/L	0.014	48	3	23	41	KED
⎡>	**Tb**	**159**		ug/L			696628	714969	0	Standard
⎣	**Pb**	**208**	**2.991**	ug/L	0.017	0	135	176965	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:48:07

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	48335	2	Standard
	Cl	**37**		ug/L			6792206	6468788	3	Standard
>	**Sc**	**45**		ug/L			386202	440061	0	Standard
	Cr	**52**	**8.074**	ug/L	0.120	1	15278	183669	1	Standard
	Cr	**53**	**8.004**	ug/L	0.075	0	340	19815	1	Standard
	Mn	**55**	**91.638**	ug/L	1.502	1	704	2758817	1	Standard
>	**Ge**	**72**		ug/L			27053	25612	1	KED
	Ni	**60**	**8.258**	ug/L	0.134	1	4	10657	2	KED
	Ni	**62**	**8.210**	ug/L	0.232	2	3	1710	4	KED
	Cu	**63**	**27.821**	ug/L	0.205	0	28	101656	1	KED
	Cu	**65**	**27.687**	ug/L	0.475	1	10	51439	1	KED
	Zn	**66**	**33.675**	ug/L	0.642	1	8	16034	0	KED
	Zn	**67**	**34.699**	ug/L	1.101	3	2	2752	1	KED
	As	**75**	**406.417**	ug/L	6.478	1	2	107927	0	KED
	Se	**78**	**0.749**	ug/L	0.095	12	11	29	8	KED
	Y	**89**		ug/L			216612	439318	1	Standard
	Kr	**83**		ug/L			36	57	28	Standard
>	**In-1**	**115**		ug/L			6208	5765	2	KED
	Mo	**98**	**0.844**	ug/L	0.034	4	6	1093	4	KED
	Cd	**111**	**0.034**	ug/L	0.006	16	1	10	15	KED
	Cd	**114**	**0.028**	ug/L	0.007	23	3	22	18	KED
>	**Tb**	**159**		ug/L			696628	718220	0	Standard
	Pb	**208**	**3.210**	ug/L	0.017	0	135	190748	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:52:48

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	36594	1	Standard
	Cl	**37**		ug/L			6792206	6452827	1	Standard
⌈>	**Sc**	**45**		ug/L			386202	434457	0	Standard
|	**Cr**	**52**	**30.852**	ug/L	0.305	0	15278	644412	1	Standard
|	**Cr**	**53**	**31.211**	ug/L	0.462	1	340	75170	2	Standard
⌊	**Mn**	**55**	**105.555**	ug/L	1.276	1	704	3137429	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	23653	7	KED
|	**Ni**	**60**	**36.767**	ug/L	2.177	5	4	43695	3	KED
|	**Ni**	**62**	**37.368**	ug/L	2.337	6	3	7156	1	KED
|	**Cu**	**63**	**61.886**	ug/L	4.135	6	28	208161	2	KED
|	**Cu**	**65**	**62.394**	ug/L	4.699	7	10	106662	1	KED
|	**Zn**	**66**	**120.948**	ug/L	6.222	5	8	53039	2	KED
|	**Zn**	**67**	**115.353**	ug/L	7.191	6	2	8422	1	KED
|	**As**	**75**	**451.752**	ug/L	30.560	6	2	110437	0	KED
⌊	**Se**	**78**	**80.879**	ug/L	2.604	3	11	1829	4	KED
	Y	**89**		ug/L			216612	413319	2	Standard
	Kr	**83**		ug/L			36	80	14	Standard
⌈>	**In-1**	**115**		ug/L			6208	5689	3	KED
|	**Mo**	**98**	**0.864**	ug/L	0.023	2	6	1104	2	KED
|	**Cd**	**111**	**26.304**	ug/L	0.750	2	1	7001	1	KED
⌊	**Cd**	**114**	**26.397**	ug/L	0.905	3	3	17823	1	KED
⌈>	**Tb**	**159**		ug/L			696628	716260	0	Standard
⌊	**Pb**	**208**	**31.454**	ug/L	0.276	0	135	1862806	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 22:57:24

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	37452	2	Standard
	Cl	**37**		ug/L			6792206	6474306	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	433596	0	Standard
|	**Cr**	**52**	**32.673**	ug/L	0.298	0	15278	680046	0	Standard
|	**Cr**	**53**	**32.011**	ug/L	0.421	1	340	76936	2	Standard
⌊	**Mn**	**55**	**100.405**	ug/L	1.190	1	704	2978384	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	25617	0	KED
|	**Ni**	**60**	**33.062**	ug/L	0.241	0	4	42664	1	KED
|	**Ni**	**62**	**34.185**	ug/L	0.742	2	3	7111	1	KED
|	**Cu**	**63**	**53.741**	ug/L	0.733	1	28	196381	1	KED
|	**Cu**	**65**	**54.379**	ug/L	0.748	1	10	101050	1	KED
|	**Zn**	**66**	**115.877**	ug/L	1.897	1	8	55170	1	KED
|	**Zn**	**67**	**111.125**	ug/L	0.477	0	2	8814	0	KED
|	**As**	**75**	**410.869**	ug/L	3.101	0	2	109149	1	KED
⌊	**Se**	**78**	**74.748**	ug/L	2.676	3	11	1834	4	KED
	Y	**89**		ug/L			216612	395482	2	Standard
	Kr	**83**		ug/L			36	73	19	Standard
⌈>	**In-1**	**115**		ug/L			6208	5739	0	KED
|	**Mo**	**98**	**1.129**	ug/L	0.064	5	6	1454	6	KED
|	**Cd**	**111**	**26.467**	ug/L	0.092	0	1	7111	0	KED
⌊	**Cd**	**114**	**26.074**	ug/L	0.115	0	3	17776	0	KED
⌈>	**Tb**	**159**		ug/L			696628	708178	0	Standard
⌊	**Pb**	**208**	**31.314**	ug/L	0.354	1	135	1833522	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:01:58

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	45556	1	Standard
	Cl	**37**		ug/L			6792206	6399568	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	425390	1	Standard
|	**Cr**	**52**	**28.447**	ug/L	0.608	2	15278	583011	2	Standard
|	**Cr**	**53**	**27.642**	ug/L	0.403	1	340	65217	1	Standard
⌊	**Mn**	**55**	**103.874**	ug/L	2.359	2	704	3022637	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	25753	1	KED
|	**Ni**	**60**	**37.403**	ug/L	0.469	1	4	48521	1	KED
|	**Ni**	**62**	**38.043**	ug/L	0.741	1	3	7955	1	KED
|	**Cu**	**63**	**57.385**	ug/L	1.842	3	28	210799	2	KED
|	**Cu**	**65**	**57.761**	ug/L	0.495	0	10	107903	1	KED
|	**Zn**	**66**	**121.556**	ug/L	2.376	1	8	58178	0	KED
|	**Zn**	**67**	**116.452**	ug/L	1.211	1	2	9285	0	KED
|	**As**	**75**	**400.061**	ug/L	7.794	1	2	106828	1	KED
⌊	**Se**	**78**	**84.962**	ug/L	2.161	2	11	2094	1	KED
	Y	**89**		ug/L			216612	397949	1	Standard
	Kr	**83**		ug/L			36	64	8	Standard
⌈>	**In-1**	**115**		ug/L			6208	5907	0	KED
|	**Mo**	**98**	**0.781**	ug/L	0.049	6	6	1037	5	KED
|	**Cd**	**111**	**26.675**	ug/L	0.062	0	1	7377	0	KED
⌊	**Cd**	**114**	**27.562**	ug/L	0.326	1	3	19340	1	KED
⌈>	**Tb**	**159**		ug/L			696628	709471	0	Standard
⌊	**Pb**	**208**	**28.590**	ug/L	0.194	0	135	1677179	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:06:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	29338	2	Standard
	Cl	**37**		ug/L			6792206	6355365	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	360191	2	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.020	659	15278	14296	1	Standard
|	**Cr**	**53**	**-0.013**	ug/L	0.007	52	340	290	6	Standard
⌊	**Mn**	**55**	**0.013**	ug/L	0.000	0	704	986	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	25237	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.003	94	4	7	43	KED
|	**Ni**	**62**	**0.001**	ug/L	0.005	520	3	3	34	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	24	28	46	10	KED
|	**Cu**	**65**	**0.009**	ug/L	0.005	49	10	26	32	KED
|	**Zn**	**66**	**0.028**	ug/L	0.013	45	8	21	28	KED
|	**Zn**	**67**	**0.010**	ug/L	0.014	135	2	3	34	KED
|	**As**	**75**	**0.035**	ug/L	0.014	38	2	11	30	KED
⌊	**Se**	**78**	**0.106**	ug/L	0.208	196	11	13	36	KED
	Y	**89**		ug/L			216612	203900	0	Standard
	Kr	**83**		ug/L			36	45	4	Standard
⌈>	**In-1**	**115**		ug/L			6208	5751	2	KED
|	**Mo**	**98**	**-0.001**	ug/L	0.002	183	6	4	47	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	107	1	2	57	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.004	46	3	8	33	KED
⌈>	**Tb**	**159**		ug/L			696628	658498	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	12	135	276	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:11:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	28744	1	Standard
	Cl	**37**		ug/L			6792206	6815545	2	Standard
⎡>	**Sc**	**45**		ug/L			386202	370359	1	Standard
⎢	**Cr**	**52**	**48.428**	ug/L	0.980	2	15278	854070	3	Standard
⎢	**Cr**	**53**	**48.407**	ug/L	0.341	0	340	99200	1	Standard
⎣	**Mn**	**55**	**48.444**	ug/L	0.112	0	704	1227775	1	Standard
⎡>	**Ge**	**72**		ug/L			27053	26026	0	KED
⎢	**Ni**	**60**	**50.250**	ug/L	0.830	1	4	65876	1	KED
⎢	**Ni**	**62**	**50.232**	ug/L	0.644	1	3	10616	1	KED
⎢	**Cu**	**63**	**50.189**	ug/L	0.795	1	28	186351	2	KED
⎢	**Cu**	**65**	**51.503**	ug/L	0.755	1	10	97226	0	KED
⎢	**Zn**	**66**	**50.662**	ug/L	0.182	0	8	24512	0	KED
⎢	**Zn**	**67**	**49.462**	ug/L	0.090	0	2	3987	0	KED
⎢	**As**	**75**	**49.615**	ug/L	0.670	1	2	13391	0	KED
⎣	**Se**	**78**	**47.870**	ug/L	1.477	3	11	1197	2	KED
	Y	**89**		ug/L			216612	209471	0	Standard
	Kr	**83**		ug/L			36	53	31	Standard
⎡>	**In-1**	**115**		ug/L			6208	5834	1	KED
⎢	**Mo**	**98**	**50.462**	ug/L	0.838	1	6	65789	0	KED
⎢	**Cd**	**111**	**52.368**	ug/L	1.550	2	1	14298	1	KED
⎣	**Cd**	**114**	**51.355**	ug/L	1.575	3	3	35573	1	KED
⎡>	**Tb**	**159**		ug/L			696628	677063	1	Standard
⎣	**Pb**	**208**	**54.152**	ug/L	1.535	2	135	3030956	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:18:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	26515	2	Standard
	Cl	**37**		ug/L			6792206	6326822	2	Standard
⎡>	**Sc**	**45**		ug/L			386202	350107	0	Standard
⎢	**Cr**	**52**	**-0.004**	ug/L	0.004	104	15278	13779	0	Standard
⎢	**Cr**	**53**	**-0.032**	ug/L	0.004	13	340	247	2	Standard
⎣	**Mn**	**55**	**0.003**	ug/L	0.000	11	704	713	0	Standard
⎡>	**Ge**	**72**		ug/L			27053	25223	0	KED
⎢	**Ni**	**60**	**0.009**	ug/L	0.005	51	4	15	37	KED
⎢	**Ni**	**62**	**0.010**	ug/L	0.014	137	3	5	57	KED
⎢	**Cu**	**63**	**0.010**	ug/L	0.005	49	28	61	28	KED
⎢	**Cu**	**65**	**0.012**	ug/L	0.002	12	10	31	9	KED
⎢	**Zn**	**66**	**0.011**	ug/L	0.007	67	8	13	24	KED
⎢	**Zn**	**67**	**0.010**	ug/L	0.051	487	2	3	124	KED
⎢	**As**	**75**	**0.047**	ug/L	0.011	24	2	14	19	KED
⎣	**Se**	**78**	**0.110**	ug/L	0.066	60	11	13	12	KED
	Y	**89**		ug/L			216612	203752	1	Standard
	Kr	**83**		ug/L			36	48	13	Standard
⎡>	**In-1**	**115**		ug/L			6208	5882	1	KED
⎢	**Mo**	**98**	**0.001**	ug/L	0.003	254	6	7	50	KED
⎢	**Cd**	**111**	**0.004**	ug/L	0.005	141	1	2	65	KED
⎣	**Cd**	**114**	**0.000**	ug/L	0.004	2473	3	3	96	KED
⎡>	**Tb**	**159**		ug/L			696628	643017	0	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	112	135	142	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-16
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 23:23:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	42770	1	Standard
	Cl	**37**		ug/L			6792206	6441071	3	Standard
>	**Sc**	**45**		ug/L			386202	418491	0	Standard
	Cr	**52**	**9.864**	ug/L	0.049	0	15278	209728	0	Standard
	Cr	**53**	**9.804**	ug/L	0.282	2	340	22999	3	Standard
	Mn	**55**	**85.891**	ug/L	1.287	1	704	2459295	1	Standard
>	**Ge**	**72**		ug/L			27053	25667	1	KED
	Ni	**60**	**9.918**	ug/L	0.138	1	4	12824	0	KED
	Ni	**62**	**10.008**	ug/L	0.450	4	3	2087	3	KED
	Cu	**63**	**17.529**	ug/L	0.276	1	28	64190	0	KED
	Cu	**65**	**18.019**	ug/L	0.278	1	10	33549	0	KED
	Zn	**66**	**21.842**	ug/L	0.333	1	8	10427	2	KED
	Zn	**67**	**22.117**	ug/L	0.307	1	2	1759	1	KED
	As	**75**	**587.071**	ug/L	10.906	1	2	156226	0	KED
	Se	**78**	**0.567**	ug/L	0.037	6	11	25	3	KED
	Y	**89**		ug/L			216612	382702	1	Standard
	Kr	**83**		ug/L			36	69	13	Standard
>	**In-1**	**115**		ug/L			6208	5703	1	KED
	Mo	**98**	**0.386**	ug/L	0.038	9	6	498	8	KED
	Cd	**111**	**0.030**	ug/L	0.011	37	1	9	33	KED
	Cd	**114**	**0.032**	ug/L	0.014	43	3	24	37	KED
>	**Tb**	**159**		ug/L			696628	705599	2	Standard
	Pb	**208**	**1.330**	ug/L	0.036	2	135	77686	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:28:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	43187	2	Standard
	Cl	**37**		ug/L			6792206	6410498	1	Standard
⌈>	**Sc**	**45**		ug/L			386202	441730	3	Standard
|	**Cr**	**52**	**7.014**	ug/L	0.207	2	15278	162365	1	Standard
|	**Cr**	**53**	**7.174**	ug/L	0.108	1	340	17860	2	Standard
⌊	**Mn**	**55**	**103.154**	ug/L	2.290	2	704	3115840	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	25455	1	KED
|	**Ni**	**60**	**7.955**	ug/L	0.227	2	4	10201	2	KED
|	**Ni**	**62**	**8.339**	ug/L	0.372	4	3	1725	2	KED
|	**Cu**	**63**	**11.124**	ug/L	0.292	2	28	40400	0	KED
|	**Cu**	**65**	**11.040**	ug/L	0.108	0	10	20389	1	KED
|	**Zn**	**66**	**24.165**	ug/L	0.554	2	8	11438	2	KED
|	**Zn**	**67**	**24.490**	ug/L	0.860	3	2	1931	2	KED
|	**As**	**75**	**106.338**	ug/L	1.896	1	2	28065	0	KED
⌊	**Se**	**78**	**0.723**	ug/L	0.230	31	11	28	20	KED
	Y	**89**		ug/L			216612	432220	1	Standard
	Kr	**83**		ug/L			36	54	28	Standard
⌈>	**In-1**	**115**		ug/L			6208	5819	1	KED
|	**Mo**	**98**	**0.232**	ug/L	0.017	7	6	308	8	KED
|	**Cd**	**111**	**0.026**	ug/L	0.009	34	1	8	29	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.015	57	3	20	51	KED
⌈>	**Tb**	**159**		ug/L			696628	704194	1	Standard
⌊	**Pb**	**208**	**1.715**	ug/L	0.007	0	135	99980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:32:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	43138	2	Standard
	Cl	**37**		ug/L			6792206	6343322	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	402929	1	Standard
|	**Cr**	**52**	**6.801**	ug/L	0.060	0	15278	144150	1	Standard
|	**Cr**	**53**	**6.702**	ug/L	0.048	0	340	15248	1	Standard
⌊	**Mn**	**55**	**67.161**	ug/L	0.168	0	704	1851597	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	25654	1	KED
|	**Ni**	**60**	**5.389**	ug/L	0.069	1	4	6968	2	KED
|	**Ni**	**62**	**5.420**	ug/L	0.179	3	3	1131	2	KED
|	**Cu**	**63**	**7.823**	ug/L	0.078	1	28	28648	0	KED
|	**Cu**	**65**	**7.782**	ug/L	0.078	1	10	14491	2	KED
|	**Zn**	**66**	**16.840**	ug/L	0.142	0	8	8037	2	KED
|	**Zn**	**67**	**15.516**	ug/L	0.690	4	2	1234	5	KED
|	**As**	**75**	**61.600**	ug/L	0.658	1	2	16388	0	KED
⌊	**Se**	**78**	**0.404**	ug/L	0.105	26	11	21	13	KED
	Y	**89**		ug/L			216612	327099	2	Standard
	Kr	**83**		ug/L			36	61	17	Standard
⌈>	**In-1**	**115**		ug/L			6208	5730	1	KED
|	**Mo**	**98**	**0.179**	ug/L	0.003	1	6	235	0	KED
|	**Cd**	**111**	**0.022**	ug/L	0.014	64	1	6	55	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.007	43	3	13	33	KED
⌈>	**Tb**	**159**		ug/L			696628	699423	2	Standard
⌊	**Pb**	**208**	**0.984**	ug/L	0.022	2	135	57031	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:37:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	46324	1	Standard
	Cl	**37**		ug/L			6792206	6265085	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	402557	1	Standard
|	**Cr**	**52**	**6.652**	ug/L	0.110	1	15278	141232	1	Standard
|	**Cr**	**53**	**6.391**	ug/L	0.213	3	340	14540	2	Standard
⌊	**Mn**	**55**	**70.450**	ug/L	0.614	0	704	1940272	0	Standard
⌈>	**Ge**	**72**		ug/L			27053	25756	2	KED
|	**Ni**	**60**	**7.430**	ug/L	0.147	1	4	9639	0	KED
|	**Ni**	**62**	**7.939**	ug/L	0.426	5	3	1662	4	KED
|	**Cu**	**63**	**9.484**	ug/L	0.173	1	28	34862	1	KED
|	**Cu**	**65**	**9.531**	ug/L	0.035	0	10	17814	2	KED
|	**Zn**	**66**	**81.806**	ug/L	2.437	2	8	39150	1	KED
|	**Zn**	**67**	**78.310**	ug/L	0.721	0	2	6245	2	KED
|	**As**	**75**	**151.558**	ug/L	3.191	2	2	40468	1	KED
⌊	**Se**	**78**	**0.669**	ug/L	0.052	7	11	27	2	KED
	Y	**89**		ug/L			216612	349600	2	Standard
	Kr	**83**		ug/L			36	69	22	Standard
⌈>	**In-1**	**115**		ug/L			6208	5726	2	KED
|	**Mo**	**98**	**0.173**	ug/L	0.007	3	6	227	1	KED
|	**Cd**	**111**	**0.020**	ug/L	0.003	14	1	6	14	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.012	53	3	17	43	KED
⌈>	**Tb**	**159**		ug/L			696628	688503	1	Standard
⌊	**Pb**	**208**	**1.011**	ug/L	0.014	1	135	57673	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:42:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	41253	3	Standard
	Cl	**37**		ug/L			6792206	6314399	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	396067	0	Standard
|	**Cr**	**52**	**8.183**	ug/L	0.153	1	15278	167347	2	Standard
|	**Cr**	**53**	**8.189**	ug/L	0.088	1	340	18237	1	Standard
⌊	**Mn**	**55**	**63.373**	ug/L	0.932	1	704	1717544	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	25242	0	KED
|	**Ni**	**60**	**6.465**	ug/L	0.167	2	4	8223	2	KED
|	**Ni**	**62**	**6.766**	ug/L	0.410	6	3	1389	5	KED
|	**Cu**	**63**	**7.856**	ug/L	0.078	0	28	28310	0	KED
|	**Cu**	**65**	**7.890**	ug/L	0.124	1	10	14454	0	KED
|	**Zn**	**66**	**64.727**	ug/L	0.465	0	8	30371	0	KED
|	**Zn**	**67**	**62.805**	ug/L	2.806	4	2	4910	5	KED
|	**As**	**75**	**134.632**	ug/L	1.333	0	2	35243	1	KED
⌊	**Se**	**78**	**0.472**	ug/L	0.088	18	11	22	8	KED
	Y	**89**		ug/L			216612	327354	2	Standard
	Kr	**83**		ug/L			36	60	26	Standard
⌈>	**In-1**	**115**		ug/L			6208	5791	2	KED
|	**Mo**	**98**	**0.177**	ug/L	0.021	11	6	235	10	KED
|	**Cd**	**111**	**0.014**	ug/L	0.002	12	1	5	10	KED
⌊	**Cd**	**114**	**0.018**	ug/L	0.010	55	3	14	41	KED
⌈>	**Tb**	**159**		ug/L			696628	697737	1	Standard
⌊	**Pb**	**208**	**0.780**	ug/L	0.016	2	135	45111	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-21
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 23:46:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	43396	3	Standard
	Cl	**37**		ug/L			6792206	6398729	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	416218	2	Standard
|	**Cr**	**52**	**8.880**	ug/L	0.164	1	15278	189370	0	Standard
|	**Cr**	**53**	**8.831**	ug/L	0.188	2	340	20639	3	Standard
⌊	**Mn**	**55**	**96.095**	ug/L	1.603	1	704	2735622	0	Standard
⌈>	**Ge**	**72**		ug/L			27053	25173	0	KED
|	**Ni**	**60**	**9.684**	ug/L	0.256	2	4	12282	2	KED
|	**Ni**	**62**	**9.587**	ug/L	0.225	2	3	1962	2	KED
|	**Cu**	**63**	**14.519**	ug/L	0.316	2	28	52152	1	KED
|	**Cu**	**65**	**14.780**	ug/L	0.080	0	10	26995	0	KED
|	**Zn**	**66**	**253.324**	ug/L	1.949	0	8	118522	1	KED
|	**Zn**	**67**	**233.180**	ug/L	2.763	1	2	18172	1	KED
|	**As**	**75**	**256.959**	ug/L	1.605	0	2	67076	0	KED
⌊	**Se**	**78**	**0.457**	ug/L	0.160	35	11	21	16	KED
	Y	**89**		ug/L			216612	357921	2	Standard
	Kr	**83**		ug/L			36	60	30	Standard
⌈>	**In-1**	**115**		ug/L			6208	5612	2	KED
|	**Mo**	**98**	**0.422**	ug/L	0.032	7	6	535	6	KED
|	**Cd**	**111**	**0.031**	ug/L	0.011	36	1	9	29	KED
⌊	**Cd**	**114**	**0.030**	ug/L	0.003	10	3	22	9	KED
⌈>	**Tb**	**159**		ug/L			696628	694227	0	Standard
⌊	**Pb**	**208**	**1.430**	ug/L	0.003	0	135	82202	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:51:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	45007	1	Standard
	Cl	**37**		ug/L			6792206	6099936	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	390958	1	Standard
|	**Cr**	**52**	**8.158**	ug/L	0.237	2	15278	164695	2	Standard
|	**Cr**	**53**	**7.924**	ug/L	0.230	2	340	17428	3	Standard
⌊	**Mn**	**55**	**69.470**	ug/L	2.550	3	704	1857744	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	24890	0	KED
|	**Ni**	**60**	**5.996**	ug/L	0.044	0	4	7521	0	KED
|	**Ni**	**62**	**5.880**	ug/L	0.027	0	3	1191	0	KED
|	**Cu**	**63**	**9.739**	ug/L	0.090	0	28	34602	1	KED
|	**Cu**	**65**	**9.938**	ug/L	0.036	0	10	17950	0	KED
|	**Zn**	**66**	**170.724**	ug/L	0.943	0	8	78982	1	KED
|	**Zn**	**67**	**156.650**	ug/L	2.199	1	2	12073	2	KED
|	**As**	**75**	**121.601**	ug/L	1.000	0	2	31387	0	KED
⌊	**Se**	**78**	**0.553**	ug/L	0.221	40	11	23	22	KED
	Y	**89**		ug/L			216612	321102	1	Standard
	Kr	**83**		ug/L			36	62	25	Standard
⌈>	**In-1**	**115**		ug/L			6208	5427	0	KED
|	**Mo**	**98**	**0.336**	ug/L	0.010	2	6	413	3	KED
|	**Cd**	**111**	**0.046**	ug/L	0.005	10	1	12	8	KED
⌊	**Cd**	**114**	**0.021**	ug/L	0.008	36	3	16	29	KED
⌈>	**Tb**	**159**		ug/L			696628	691714	1	Standard
⌊	**Pb**	**208**	**0.944**	ug/L	0.026	2	135	54126	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 23:56:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	47577	2	Standard
	Cl	**37**		ug/L			6792206	6221236	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	408974	2	Standard
|	**Cr**	**52**	**7.959**	ug/L	0.182	2	15278	168431	0	Standard
|	**Cr**	**53**	**7.816**	ug/L	0.201	2	340	17984	1	Standard
⌊	**Mn**	**55**	**66.975**	ug/L	2.053	3	704	1873162	0	Standard
⌈>	**Ge**	**72**		ug/L			27053	24396	0	KED
|	**Ni**	**60**	**7.190**	ug/L	0.101	1	4	8838	1	KED
|	**Ni**	**62**	**7.444**	ug/L	0.232	3	3	1476	2	KED
|	**Cu**	**63**	**15.774**	ug/L	0.340	2	28	54908	1	KED
|	**Cu**	**65**	**16.131**	ug/L	0.062	0	10	28552	0	KED
|	**Zn**	**66**	**29.977**	ug/L	0.446	1	8	13598	0	KED
|	**Zn**	**67**	**28.170**	ug/L	1.683	5	2	2129	5	KED
|	**As**	**75**	**12.770**	ug/L	0.106	0	2	3232	0	KED
⌊	**Se**	**78**	**0.591**	ug/L	0.282	47	11	24	27	KED
	Y	**89**		ug/L			216612	347637	1	Standard
	Kr	**83**		ug/L			36	57	36	Standard
⌈>	**In-1**	**115**		ug/L			6208	5507	1	KED
|	**Mo**	**98**	**0.282**	ug/L	0.014	5	6	353	6	KED
|	**Cd**	**111**	**0.068**	ug/L	0.006	8	1	18	5	KED
⌊	**Cd**	**114**	**0.061**	ug/L	0.010	16	3	42	16	KED
⌈>	**Tb**	**159**		ug/L			696628	688564	1	Standard
⌊	**Pb**	**208**	**1.347**	ug/L	0.031	2	135	76826	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-36
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:00:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	48784	3	Standard
	Cl	**37**		ug/L			6792206	6351722	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	468482	2	Standard
|	**Cr**	**52**	**12.026**	ug/L	0.128	1	15278	282139	1	Standard
|	**Cr**	**53**	**11.799**	ug/L	0.183	1	340	30903	3	Standard
⌊	**Mn**	**55**	**115.480**	ug/L	0.376	0	704	3700888	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	24873	3	KED
|	**Ni**	**60**	**12.921**	ug/L	0.485	3	4	16178	0	KED
|	**Ni**	**62**	**13.000**	ug/L	0.456	3	3	2626	1	KED
|	**Cu**	**63**	**20.348**	ug/L	0.944	4	28	72163	3	KED
|	**Cu**	**65**	**20.488**	ug/L	0.341	1	10	36967	3	KED
|	**Zn**	**66**	**48.132**	ug/L	0.943	1	8	22248	1	KED
|	**Zn**	**67**	**45.643**	ug/L	2.429	5	2	3512	2	KED
|	**As**	**75**	**3.313**	ug/L	0.109	3	2	856	1	KED
⌊	**Se**	**78**	**0.780**	ug/L	0.222	28	11	29	15	KED
	Y	**89**		ug/L			216612	426507	2	Standard
	Kr	**83**		ug/L			36	74	6	Standard
⌈>	**In-1**	**115**		ug/L			6208	5491	4	KED
|	**Mo**	**98**	**0.509**	ug/L	0.043	8	6	628	4	KED
|	**Cd**	**111**	**0.122**	ug/L	0.018	14	1	32	12	KED
⌊	**Cd**	**114**	**0.108**	ug/L	0.030	27	3	73	30	KED
⌈>	**Tb**	**159**		ug/L			696628	714276	1	Standard
⌊	**Pb**	**208**	**9.363**	ug/L	0.220	2	135	552935	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:05:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	29622	3	Standard
	Cl	**37**		ug/L			6792206	6187438	1	Standard
⌈>	**Sc**	**45**		ug/L			386202	349604	1	Standard
|	**Cr**	**52**	**-0.019**	ug/L	0.017	91	15278	13517	2	Standard
|	**Cr**	**53**	**-0.058**	ug/L	0.005	9	340	195	3	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.002	48	704	742	5	Standard
⌈>	**Ge**	**72**		ug/L			27053	25086	0	KED
|	**Ni**	**60**	**0.004**	ug/L	0.001	34	4	9	20	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.005	47	3	0	173	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	42	28	48	19	KED
|	**Cu**	**65**	**0.008**	ug/L	0.002	20	10	24	12	KED
|	**Zn**	**66**	**0.040**	ug/L	0.013	31	8	26	21	KED
|	**Zn**	**67**	**0.052**	ug/L	0.087	167	2	6	105	KED
|	**As**	**75**	**0.008**	ug/L	0.004	53	2	4	23	KED
⌊	**Se**	**78**	**0.282**	ug/L	0.201	71	11	17	26	KED
	Y	**89**		ug/L			216612	197964	1	Standard
	Kr	**83**		ug/L			36	47	20	Standard
⌈>	**In-1**	**115**		ug/L			6208	5642	2	KED
|	**Mo**	**98**	**-0.002**	ug/L	0.003	198	6	4	90	KED
|	**Cd**	**111**	**0.011**	ug/L	0.007	64	1	4	48	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	210	3	3	50	KED
⌈>	**Tb**	**159**		ug/L			696628	655157	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	281	135	135	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:10:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	28751	0	Standard
	Cl	**37**		ug/L			6792206	6579787	2	Standard
>	**Sc**	**45**		ug/L			386202	355687	1	Standard
	Cr	**52**	**48.041**	ug/L	0.673	1	15278	813797	3	Standard
	Cr	**53**	**48.068**	ug/L	0.367	0	340	94598	1	Standard
	Mn	**55**	**49.026**	ug/L	0.183	0	704	1193354	2	Standard
>	**Ge**	**72**		ug/L			27053	25315	0	KED
	Ni	**60**	**49.323**	ug/L	0.728	1	4	62893	1	KED
	Ni	**62**	**50.873**	ug/L	1.038	2	3	10457	1	KED
	Cu	**63**	**51.217**	ug/L	0.551	1	28	184958	0	KED
	Cu	**65**	**50.923**	ug/L	1.179	2	10	93504	1	KED
	Zn	**66**	**50.409**	ug/L	0.348	0	8	23723	0	KED
	Zn	**67**	**49.462**	ug/L	0.897	1	2	3878	2	KED
	As	**75**	**48.982**	ug/L	0.020	0	2	12860	0	KED
	Se	**78**	**46.726**	ug/L	0.892	1	11	1137	1	KED
	Y	**89**		ug/L			216612	196732	2	Standard
	Kr	**83**		ug/L			36	53	17	Standard
>	**In-1**	**115**		ug/L			6208	5611	2	KED
	Mo	**98**	**49.837**	ug/L	1.113	2	6	62481	0	KED
	Cd	**111**	**51.616**	ug/L	1.430	2	1	13553	0	KED
	Cd	**114**	**51.330**	ug/L	1.467	2	3	34197	1	KED
>	**Tb**	**159**		ug/L			696628	669475	1	Standard
	Pb	**208**	**54.489**	ug/L	1.047	1	135	3015440	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:17:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	26666	1	Standard
	Cl	**37**		ug/L			6792206	6227788	4	Standard
⌈>	**Sc**	**45**		ug/L			386202	354152	2	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.012	51	15278	13616	3	Standard
|	**Cr**	**53**	**-0.053**	ug/L	0.001	2	340	208	2	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	128	704	670	6	Standard
⌈>	**Ge**	**72**		ug/L			27053	25287	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.002	133	4	6	45	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.000	0	3	0		KED
|	**Cu**	**63**	**0.000**	ug/L	0.001	335	28	27	14	KED
|	**Cu**	**65**	**0.001**	ug/L	0.003	240	10	12	50	KED
|	**Zn**	**66**	**0.019**	ug/L	0.010	55	8	17	29	KED
|	**Zn**	**67**	**0.002**	ug/L	0.038	1709	2	2	114	KED
|	**As**	**75**	**0.015**	ug/L	0.003	19	2	6	11	KED
⌊	**Se**	**78**	**0.229**	ug/L	0.058	25	11	16	7	KED
	Y	**89**		ug/L			216612	199129	1	Standard
	Kr	**83**		ug/L			36	53	2	Standard
⌈>	**In-1**	**115**		ug/L			6208	5837	1	KED
|	**Mo**	**98**	**0.000**	ug/L	0.003	1114	6	6	60	KED
|	**Cd**	**111**	**0.003**	ug/L	0.000	4	1	1		KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.006	281	3	4	93	KED
⌈>	**Tb**	**159**		ug/L			696628	657938	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	42	135	147	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-37
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:22:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	50674	5	Standard
	Cl	**37**		ug/L			6792206	6353072	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	480509	1	Standard
|	**Cr**	**52**	**11.975**	ug/L	0.109	0	15278	288279	2	Standard
|	**Cr**	**53**	**12.071**	ug/L	0.056	0	340	32413	2	Standard
⌊	**Mn**	**55**	**115.411**	ug/L	1.387	1	704	3794304	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	25114	1	KED
|	**Ni**	**60**	**13.853**	ug/L	0.645	4	4	17521	3	KED
|	**Ni**	**62**	**14.862**	ug/L	0.620	4	3	3032	3	KED
|	**Cu**	**63**	**24.140**	ug/L	0.549	2	28	86486	1	KED
|	**Cu**	**65**	**23.916**	ug/L	0.112	0	10	43573	1	KED
|	**Zn**	**66**	**51.582**	ug/L	0.850	1	8	24079	0	KED
|	**Zn**	**67**	**50.241**	ug/L	0.630	1	2	3908	2	KED
|	**As**	**75**	**4.740**	ug/L	0.084	1	2	1236	1	KED
⌊	**Se**	**78**	**0.695**	ug/L	0.105	15	11	27	7	KED
	Y	**89**		ug/L			216612	445133	1	Standard
	Kr	**83**		ug/L			36	70	12	Standard
⌈>	**In-1**	**115**		ug/L			6208	5576	4	KED
|	**Mo**	**98**	**0.453**	ug/L	0.038	8	6	569	3	KED
|	**Cd**	**111**	**0.138**	ug/L	0.033	23	1	36	19	KED
⌊	**Cd**	**114**	**0.166**	ug/L	0.006	3	3	112	5	KED
⌈>	**Tb**	**159**		ug/L			696628	721930	0	Standard
⌊	**Pb**	**208**	**10.849**	ug/L	0.176	1	135	647680	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-38
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:27:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	47024	0	Standard
	Cl	**37**		ug/L			6792206	6410943	2	Standard
>	**Sc**	**45**		ug/L			386202	505585	1	Standard
	Cr	**52**	**12.858**	ug/L	0.366	2	15278	324122	1	Standard
	Cr	**53**	**12.951**	ug/L	0.406	3	340	36546	1	Standard
	Mn	**55**	**121.145**	ug/L	2.932	2	704	4189166	1	Standard
>	**Ge**	**72**		ug/L			27053	24525	1	KED
	Ni	**60**	**14.760**	ug/L	0.639	4	4	18229	3	KED
	Ni	**62**	**14.931**	ug/L	0.326	2	3	2975	2	KED
	Cu	**63**	**28.222**	ug/L	0.735	2	28	98729	1	KED
	Cu	**65**	**28.915**	ug/L	0.393	1	10	51437	0	KED
	Zn	**66**	**63.491**	ug/L	1.233	1	8	28941	0	KED
	Zn	**67**	**61.098**	ug/L	0.771	1	2	4641	2	KED
	As	**75**	**5.010**	ug/L	0.114	2	2	1276	0	KED
	Se	**78**	**1.058**	ug/L	0.216	20	11	35	14	KED
	Y	**89**		ug/L			216612	470038	1	Standard
	Kr	**83**		ug/L			36	84	17	Standard
>	**In-1**	**115**		ug/L			6208	5651	1	KED
	Mo	**98**	**0.422**	ug/L	0.024	5	6	539	6	KED
	Cd	**111**	**0.223**	ug/L	0.026	11	1	60	10	KED
	Cd	**114**	**0.218**	ug/L	0.016	7	3	148	6	KED
>	**Tb**	**159**		ug/L			696628	718519	1	Standard
	Pb	**208**	**16.901**	ug/L	0.339	2	135	1003967	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-39
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:31:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25974	45908	1	Standard
Cl	37		ug/L			6792206	6286289	2	Standard
> Sc	45		ug/L			386202	493748	5	Standard
Cr	52	12.936	ug/L	0.398	3	15278	318072	2	Standard
Cr	53	13.053	ug/L	0.502	3	340	35929	1	Standard
Mn	55	127.834	ug/L	4.132	3	704	4313053	2	Standard
> Ge	72		ug/L			27053	25124	2	KED
Ni	60	13.789	ug/L	0.207	1	4	17450	0	KED
Ni	62	14.337	ug/L	0.761	5	3	2925	3	KED
Cu	63	29.230	ug/L	0.747	2	28	104740	0	KED
Cu	65	29.681	ug/L	0.264	0	10	54097	2	KED
Zn	66	71.111	ug/L	1.858	2	8	33199	0	KED
Zn	67	68.739	ug/L	1.360	1	2	5347	1	KED
As	75	7.488	ug/L	0.204	2	2	1952	0	KED
Se	78	1.021	ug/L	0.115	11	11	35	7	KED
Y	89		ug/L			216612	462768	2	Standard
Kr	83		ug/L			36	83	7	Standard
> In-1	115		ug/L			6208	5591	2	KED
Mo	98	0.542	ug/L	0.045	8	6	682	6	KED
Cd	111	0.402	ug/L	0.011	2	1	106	0	KED
Cd	114	0.437	ug/L	0.039	8	3	293	11	KED
> Tb	159		ug/L			696628	698792	0	Standard
Pb	208	26.097	ug/L	0.409	1	135	1507836	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-40
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:36:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	47786	2	Standard
	Cl	**37**		ug/L			6792206	6256344	2	Standard
>	**Sc**	**45**		ug/L			386202	501666	2	Standard
	Cr	**52**	**12.185**	ug/L	0.548	4	15278	305716	2	Standard
	Cr	**53**	**12.343**	ug/L	0.176	1	340	34588	1	Standard
	Mn	**55**	**133.833**	ug/L	0.717	0	704	4592575	1	Standard
>	**Ge**	**72**		ug/L			27053	24469	1	KED
	Ni	**60**	**13.473**	ug/L	0.182	1	4	16607	0	KED
	Ni	**62**	**13.929**	ug/L	0.343	2	3	2770	3	KED
	Cu	**63**	**27.213**	ug/L	0.208	0	28	94997	1	KED
	Cu	**65**	**27.422**	ug/L	0.780	2	10	48662	1	KED
	Zn	**66**	**63.567**	ug/L	0.868	1	8	28910	0	KED
	Zn	**67**	**62.263**	ug/L	4.227	6	2	4716	6	KED
	As	**75**	**5.993**	ug/L	0.154	2	2	1522	1	KED
	Se	**78**	**0.980**	ug/L	0.173	17	11	33	10	KED
	Y	**89**		ug/L			216612	476681	1	Standard
	Kr	**83**		ug/L			36	57	17	Standard
>	**In-1**	**115**		ug/L			6208	5405	1	KED
	Mo	**98**	**0.311**	ug/L	0.017	5	6	381	4	KED
	Cd	**111**	**0.460**	ug/L	0.041	8	1	117	8	KED
	Cd	**114**	**0.453**	ug/L	0.044	9	3	293	10	KED
>	**Tb**	**159**		ug/L			696628	724401	1	Standard
	Pb	**208**	**23.213**	ug/L	0.108	0	135	1390388	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-41
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:41:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	50495	1	Standard
	Cl	**37**		ug/L			6792206	6260289	2	Standard
>	**Sc**	**45**		ug/L			386202	502417	1	Standard
	Cr	**52**	**11.687**	ug/L	0.201	1	15278	294629	2	Standard
	Cr	**53**	**11.808**	ug/L	0.101	0	340	33157	0	Standard
	Mn	**55**	**118.246**	ug/L	1.327	1	704	4064515	2	Standard
>	**Ge**	**72**		ug/L			27053	24387	1	KED
	Ni	**60**	**12.748**	ug/L	0.167	1	4	15660	1	KED
	Ni	**62**	**12.908**	ug/L	0.553	4	3	2558	5	KED
	Cu	**63**	**26.251**	ug/L	0.813	3	28	91301	1	KED
	Cu	**65**	**27.023**	ug/L	0.581	2	10	47794	0	KED
	Zn	**66**	**61.368**	ug/L	2.036	3	8	27808	1	KED
	Zn	**67**	**58.722**	ug/L	2.898	4	2	4432	3	KED
	As	**75**	**6.009**	ug/L	0.209	3	2	1521	2	KED
	Se	**78**	**0.744**	ug/L	0.038	5	11	27	4	KED
	Y	**89**		ug/L			216612	479159	2	Standard
	Kr	**83**		ug/L			36	53	21	Standard
>	**In-1**	**115**		ug/L			6208	5451	1	KED
	Mo	**98**	**0.331**	ug/L	0.009	2	6	408	2	KED
	Cd	**111**	**0.385**	ug/L	0.032	8	1	99	8	KED
	Cd	**114**	**0.358**	ug/L	0.016	4	3	234	3	KED
>	**Tb**	**159**		ug/L			696628	716332	1	Standard
	Pb	**208**	**23.699**	ug/L	0.286	1	135	1403606	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-42
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:45:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25974	50552	2	Standard
Cl	37		ug/L			6792206	6272974	3	Standard
Sc	45		ug/L			386202	490523	1	Standard
Cr	52	11.466	ug/L	0.237	2	15278	282563	1	Standard
Cr	53	11.603	ug/L	0.307	2	340	31827	3	Standard
Mn	55	122.364	ug/L	2.423	1	704	4106157	2	Standard
Ge	72		ug/L			27053	24612	3	KED
Ni	60	11.621	ug/L	0.411	3	4	14398	1	KED
Ni	62	11.750	ug/L	0.661	5	3	2347	2	KED
Cu	63	23.350	ug/L	0.534	2	28	81950	1	KED
Cu	65	23.888	ug/L	0.408	1	10	42634	1	KED
Zn	66	53.914	ug/L	1.816	3	8	24648	0	KED
Zn	67	52.934	ug/L	1.229	2	2	4032	1	KED
As	75	5.441	ug/L	0.158	2	2	1390	1	KED
Se	78	1.092	ug/L	0.173	15	11	36	14	KED
Y	89		ug/L			216612	460919	1	Standard
Kr	83		ug/L			36	64	5	Standard
In-1	115		ug/L			6208	5332	0	KED
Mo	98	0.328	ug/L	0.014	4	6	397	4	KED
Cd	111	0.353	ug/L	0.019	5	1	89	5	KED
Cd	114	0.357	ug/L	0.040	11	3	228	11	KED
Tb	159		ug/L			696628	717465	2	Standard
Pb	208	22.555	ug/L	0.503	2	135	1337695	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0234-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:51:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	31019	2	Standard
	Cl	**37**		ug/L			6792206	6193493	2	Standard
⌈>	**Sc**	**45**		ug/L			386202	364185	2	Standard
|	**Cr**	**52**	**2.435**	ug/L	0.042	1	15278	55887	1	Standard
|	**Cr**	**53**	**2.423**	ug/L	0.023	0	340	5186	2	Standard
⌊	**Mn**	**55**	**27.036**	ug/L	0.322	1	704	674121	3	Standard
⌈>	**Ge**	**72**		ug/L			27053	24142	0	KED
|	**Ni**	**60**	**2.011**	ug/L	0.059	2	4	2449	3	KED
|	**Ni**	**62**	**1.958**	ug/L	0.035	1	3	386	1	KED
|	**Cu**	**63**	**5.505**	ug/L	0.126	2	28	18983	2	KED
|	**Cu**	**65**	**5.569**	ug/L	0.087	1	10	9760	1	KED
|	**Zn**	**66**	**54.657**	ug/L	1.466	2	8	24529	2	KED
|	**Zn**	**67**	**52.222**	ug/L	1.714	3	2	3904	3	KED
|	**As**	**75**	**0.651**	ug/L	0.019	2	2	165	2	KED
⌊	**Se**	**78**	**0.171**	ug/L	0.076	44	11	14	12	KED
	Y	**89**		ug/L			216612	210824	2	Standard
	Kr	**83**		ug/L			36	60	32	Standard
⌈>	**In-1**	**115**		ug/L			6208	5361	1	KED
|	**Mo**	**98**	**0.434**	ug/L	0.018	4	6	526	4	KED
|	**Cd**	**111**	**0.025**	ug/L	0.010	39	1	7	32	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.008	50	3	12	40	KED
⌈>	**Tb**	**159**		ug/L			696628	671304	0	Standard
⌊	**Pb**	**208**	**2.082**	ug/L	0.023	1	135	115692	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0234-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 00:55:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	51046	0	Standard
	Cl	**37**		ug/L			6792206	6833159	1	Standard
⌈>	**Sc**	**45**		ug/L			386202	381303	0	Standard
|	**Cr**	**52**	**3.281**	ug/L	0.084	2	15278	73619	1	Standard
|	**Cr**	**53**	**4.276**	ug/L	0.088	2	340	9327	2	Standard
⌊	**Mn**	**55**	**15.123**	ug/L	0.288	1	704	395089	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	23522	0	KED
|	**Ni**	**60**	**1.781**	ug/L	0.069	3	4	2114	4	KED
|	**Ni**	**62**	**1.797**	ug/L	0.095	5	3	346	5	KED
|	**Cu**	**63**	**6.421**	ug/L	0.060	0	28	21568	1	KED
|	**Cu**	**65**	**6.466**	ug/L	0.094	1	10	11041	1	KED
|	**Zn**	**66**	**25.143**	ug/L	0.260	1	8	10998	0	KED
|	**Zn**	**67**	**25.407**	ug/L	0.209	0	2	1852	0	KED
|	**As**	**75**	**2.002**	ug/L	0.064	3	2	490	3	KED
⌊	**Se**	**78**	**0.244**	ug/L	0.099	40	11	15	13	KED
	Y	**89**		ug/L			216612	198972	2	Standard
	Kr	**83**		ug/L			36	50	11	Standard
⌈>	**In-1**	**115**		ug/L			6208	5261	3	KED
|	**Mo**	**98**	**4.685**	ug/L	0.045	0	6	5513	2	KED
|	**Cd**	**111**	**0.033**	ug/L	0.009	26	1	9	26	KED
⌊	**Cd**	**114**	**0.029**	ug/L	0.003	11	3	20	8	KED
⌈>	**Tb**	**159**		ug/L			696628	646237	0	Standard
⌊	**Pb**	**208**	**1.382**	ug/L	0.008	0	135	73960	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0205-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:00:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	37094	2	Standard
	Cl	**37**		ug/L			6792206	6676856	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	372137	1	Standard
|	**Cr**	**52**	**0.138**	ug/L	0.019	13	15278	17127	2	Standard
|	**Cr**	**53**	**1.156**	ug/L	0.025	2	340	2700	1	Standard
⌊	**Mn**	**55**	**81.626**	ug/L	0.992	1	704	2078197	1	Standard
⌈>	**Ge**	**72**		ug/L			27053	23443	0	KED
|	**Ni**	**60**	**0.903**	ug/L	0.028	3	4	1070	2	KED
|	**Ni**	**62**	**0.916**	ug/L	0.102	11	3	177	11	KED
|	**Cu**	**63**	**0.187**	ug/L	0.000	0	28	651	0	KED
|	**Cu**	**65**	**0.205**	ug/L	0.001	0	10	356	0	KED
|	**Zn**	**66**	**1.032**	ug/L	0.056	5	8	457	5	KED
|	**Zn**	**67**	**1.431**	ug/L	0.152	10	2	106	10	KED
|	**As**	**75**	**0.321**	ug/L	0.012	3	2	80	3	KED
⌊	**Se**	**78**	**0.214**	ug/L	0.181	84	11	14	27	KED
	Y	**89**		ug/L			216612	189279	0	Standard
	Kr	**83**		ug/L			36	45	32	Standard
⌈>	**In-1**	**115**		ug/L			6208	5287	3	KED
|	**Mo**	**98**	**0.382**	ug/L	0.016	4	6	456	5	KED
|	**Cd**	**111**	**0.014**	ug/L	0.009	62	1	4	44	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.007	79	3	8	53	KED
⌈>	**Tb**	**159**		ug/L			696628	652535	0	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.001	4	135	1023	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:05:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	28739	0	Standard
	Cl	**37**		ug/L			6792206	6344318	2	Standard
⎡>	**Sc**	**45**		ug/L			386202	349109	1	Standard
⎢	**Cr**	**52**	**0.034**	ug/L	0.027	80	15278	14360	2	Standard
⎢	**Cr**	**53**	**-0.030**	ug/L	0.004	13	340	250	1	Standard
⎣	**Mn**	**55**	**0.010**	ug/L	0.001	11	704	879	4	Standard
⎡>	**Ge**	**72**		ug/L			27053	23746	1	KED
⎢	**Ni**	**60**	**0.002**	ug/L	0.003	181	4	5	57	KED
⎢	**Ni**	**62**	**-0.005**	ug/L	0.017	353	3	1	173	KED
⎢	**Cu**	**63**	**0.006**	ug/L	0.007	119	28	46	56	KED
⎢	**Cu**	**65**	**0.010**	ug/L	0.004	37	10	26	25	KED
⎢	**Zn**	**66**	**0.024**	ug/L	0.025	103	8	18	59	KED
⎢	**Zn**	**67**	**0.047**	ug/L	0.026	54	2	5	33	KED
⎢	**As**	**75**	**0.008**	ug/L	0.001	14	2	4	6	KED
⎣	**Se**	**78**	**0.140**	ug/L	0.147	105	11	13	26	KED
	Y	**89**		ug/L			216612	190823	1	Standard
	Kr	**83**		ug/L			36	38	21	Standard
⎡>	**In-1**	**115**		ug/L			6208	5499	2	KED
⎢	**Mo**	**98**	**-0.001**	ug/L	0.005	894	6	5	108	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.005	100	1	2	57	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.002	425	3	2	45	KED
⎡>	**Tb**	**159**		ug/L			696628	649773	0	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	136	135	133	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:09:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	28571	2	Standard
	Cl	**37**		ug/L			6792206	6634120	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	351137	3	Standard
|	**Cr**	**52**	**47.652**	ug/L	1.002	2	15278	796503	1	Standard
|	**Cr**	**53**	**47.125**	ug/L	1.175	2	340	91519	1	Standard
⌊	**Mn**	**55**	**48.850**	ug/L	1.137	2	704	1173374	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	24226	1	KED
|	**Ni**	**60**	**51.788**	ug/L	1.839	3	4	63176	2	KED
|	**Ni**	**62**	**51.662**	ug/L	1.875	3	3	10159	2	KED
|	**Cu**	**63**	**52.609**	ug/L	2.127	4	28	181758	2	KED
|	**Cu**	**65**	**53.628**	ug/L	0.698	1	10	94233	1	KED
|	**Zn**	**66**	**51.432**	ug/L	1.433	2	8	23159	1	KED
|	**Zn**	**67**	**50.875**	ug/L	1.933	3	2	3816	2	KED
|	**As**	**75**	**50.774**	ug/L	1.116	2	2	12755	1	KED
⌊	**Se**	**78**	**49.780**	ug/L	1.097	2	11	1158	1	KED
	Y	**89**		ug/L			216612	191217	1	Standard
	Kr	**83**		ug/L			36	44	25	Standard
⌈>	**In-1**	**115**		ug/L			6208	5504	2	KED
|	**Mo**	**98**	**51.312**	ug/L	0.758	1	6	63119	0	KED
|	**Cd**	**111**	**51.460**	ug/L	1.176	2	1	13257	0	KED
⌊	**Cd**	**114**	**51.496**	ug/L	0.668	1	3	33663	1	KED
⌈>	**Tb**	**159**		ug/L			696628	661218	0	Standard
⌊	**Pb**	**208**	**55.935**	ug/L	0.510	0	135	3057899	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:17:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25974	26203	2	Standard
	Cl	**37**		ug/L			6792206	6372388	3	Standard
⌈>	**Sc**	**45**		ug/L			386202	344910	3	Standard
|	**Cr**	**52**	**0.034**	ug/L	0.011	33	15278	14185	2	Standard
|	**Cr**	**53**	**-0.054**	ug/L	0.008	14	340	200	10	Standard
⌊	**Mn**	**55**	**0.015**	ug/L	0.001	6	704	982	2	Standard
⌈>	**Ge**	**72**		ug/L			27053	24860	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.003	133	4	6	56	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.011	136	3	1	173	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	123	28	36	34	KED
|	**Cu**	**65**	**0.005**	ug/L	0.003	55	10	19	30	KED
|	**Zn**	**66**	**0.022**	ug/L	0.009	40	8	18	21	KED
|	**Zn**	**67**	**0.027**	ug/L	0.037	135	2	4	65	KED
|	**As**	**75**	**0.005**	ug/L	0.003	57	2	3	21	KED
⌊	**Se**	**78**	**0.055**	ug/L	0.124	225	11	12	23	KED
	Y	**89**		ug/L			216612	192491	2	Standard
	Kr	**83**		ug/L			36	60	4	Standard
⌈>	**In-1**	**115**		ug/L			6208	5651	2	KED
|	**Mo**	**98**	**0.003**	ug/L	0.004	117	6	10	44	KED
|	**Cd**	**111**	**0.009**	ug/L	0.002	26	1	3	15	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	495	3	2	94	KED
⌈>	**Tb**	**159**		ug/L			696628	653178	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	51	135	155	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:21:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26112	2	Standard
	Cl	**37**		ug/L				6410668	4	Standard
⌈>	**Sc**	**45**		ug/L				345750	2	Standard
|	**Cr**	**52**		ug/L				14103	2	Standard
|	**Cr**	**53**		ug/L				213	4	Standard
⌊	**Mn**	**55**		ug/L				1173	4	Standard
⌈>	**Ge**	**72**		ug/L				25312	0	KED
|	**Ni**	**60**		ug/L				9	69	KED
|	**Ni**	**62**		ug/L				5	57	KED
|	**Cu**	**63**		ug/L				32	42	KED
|	**Cu**	**65**		ug/L				19	10	KED
|	**Zn**	**66**		ug/L				13	0	KED
|	**Zn**	**67**		ug/L				3	50	KED
|	**As**	**75**		ug/L				3	43	KED
⌊	**Se**	**78**		ug/L				12	11	KED
	Y	**89**		ug/L				192824	0	Standard
	Kr	**83**		ug/L				53	5	Standard
⌈>	**In-1**	**115**		ug/L				5595	2	KED
|	**Mo**	**98**		ug/L				12	35	KED
|	**Cd**	**111**		ug/L				5	28	KED
⌊	**Cd**	**114**		ug/L				3	34	KED
⌈>	**Tb**	**159**		ug/L				663522	0	Standard
⌊	**Pb**	**208**		ug/L				246	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:26:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	28948	0	Standard
	Cl	**37**		ug/L			6410668	6656910	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	348284	2	Standard
|	**Cr**	**52**	**48.862**	ug/L	0.438	0	14103	810440	1	Standard
|	**Cr**	**53**	**48.345**	ug/L	0.736	1	213	93057	0	Standard
⌊	**Mn**	**55**	**48.805**	ug/L	0.128	0	1173	1163791	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	24719	0	KED
|	**Ni**	**60**	**50.521**	ug/L	1.125	2	9	62906	1	KED
|	**Ni**	**62**	**52.035**	ug/L	0.731	1	5	10446	1	KED
|	**Cu**	**63**	**51.940**	ug/L	0.983	1	32	183157	1	KED
|	**Cu**	**65**	**52.797**	ug/L	0.408	0	19	94681	1	KED
|	**Zn**	**66**	**51.510**	ug/L	0.843	1	13	23676	1	KED
|	**Zn**	**67**	**51.359**	ug/L	1.028	2	3	3933	2	KED
|	**As**	**75**	**50.430**	ug/L	0.749	1	3	12930	1	KED
⌊	**Se**	**78**	**47.499**	ug/L	1.347	2	12	1129	2	KED
	Y	**89**		ug/L			192824	192333	3	Standard
	Kr	**83**		ug/L			53	47	17	Standard
⌈>	**In-1**	**115**		ug/L			5595	5568	2	KED
|	**Mo**	**98**	**50.730**	ug/L	0.556	1	12	63137	2	KED
|	**Cd**	**111**	**51.870**	ug/L	1.590	3	5	13517	0	KED
⌊	**Cd**	**114**	**52.009**	ug/L	1.792	3	3	34375	0	KED
⌈>	**Tb**	**159**		ug/L			663522	661725	0	Standard
⌊	**Pb**	**208**	**56.533**	ug/L	0.750	1	246	3092999	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:33:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	25999	3	Standard
	Cl	**37**		ug/L			6410668	6294977	2	Standard
⎡>	**Sc**	**45**		ug/L			345750	340028	2	Standard
⎢	**Cr**	**52**	**0.009**	ug/L	0.017	196	14103	14010	4	Standard
⎢	**Cr**	**53**	**-0.007**	ug/L	0.003	42	213	197	2	Standard
⎣	**Mn**	**55**	**-0.012**	ug/L	0.001	8	1173	886	0	Standard
⎡>	**Ge**	**72**		ug/L			25312	24907	1	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.004	470	9	8	58	KED
⎢	**Ni**	**62**	**-0.009**	ug/L	0.005	57	5	3	34	KED
⎢	**Cu**	**63**	**0.004**	ug/L	0.001	40	32	44	13	KED
⎢	**Cu**	**65**	**0.004**	ug/L	0.007	149	19	26	44	KED
⎢	**Zn**	**66**	**0.011**	ug/L	0.004	38	13	18	11	KED
⎢	**Zn**	**67**	**-0.023**	ug/L	0.044	187	3	1	173	KED
⎢	**As**	**75**	**0.008**	ug/L	0.003	35	3	5	13	KED
⎣	**Se**	**78**	**0.075**	ug/L	0.162	215	12	13	27	KED
	Y	**89**		ug/L			192824	190144	1	Standard
	Kr	**83**		ug/L			53	48	12	Standard
⎡>	**In-1**	**115**		ug/L			5595	5718	2	KED
⎢	**Mo**	**98**	**0.000**	ug/L	0.005	1838	12	12	43	KED
⎢	**Cd**	**111**	**-0.000**	ug/L	0.008	2648	5	5	39	KED
⎣	**Cd**	**114**	**0.005**	ug/L	0.007	156	3	6	77	KED
⎡>	**Tb**	**159**		ug/L			663522	651914	2	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.001	30	246	143	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0219-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:38:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	52681	4	Standard
	Cl	**37**		ug/L			6410668	6269842	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	352436	1	Standard
|	**Cr**	**52**	**1.273**	ug/L	0.014	1	14103	35374	1	Standard
|	**Cr**	**53**	**1.160**	ug/L	0.035	2	213	2473	3	Standard
⌊	**Mn**	**55**	**1.695**	ug/L	0.014	0	1173	42055	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	24731	1	KED
|	**Ni**	**60**	**0.193**	ug/L	0.031	15	9	249	15	KED
|	**Ni**	**62**	**0.216**	ug/L	0.058	26	5	48	23	KED
|	**Cu**	**63**	**0.439**	ug/L	0.001	0	32	1580	1	KED
|	**Cu**	**65**	**0.419**	ug/L	0.019	4	19	770	5	KED
|	**Zn**	**66**	**48.872**	ug/L	1.466	3	13	22470	1	KED
|	**Zn**	**67**	**44.773**	ug/L	1.288	2	3	3430	2	KED
|	**As**	**75**	**0.011**	ug/L	0.003	26	3	6	11	KED
⌊	**Se**	**78**	**-0.014**	ug/L	0.155	1124	12	11	31	KED
	Y	**89**		ug/L			192824	195105	3	Standard
	Kr	**83**		ug/L			53	49	43	Standard
⌈>	**In-1**	**115**		ug/L			5595	5578	0	KED
|	**Mo**	**98**	**0.027**	ug/L	0.004	16	12	46	11	KED
|	**Cd**	**111**	**0.145**	ug/L	0.009	6	5	42	5	KED
⌊	**Cd**	**114**	**0.165**	ug/L	0.021	12	3	112	11	KED
⌈>	**Tb**	**159**		ug/L			663522	665825	0	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.002	9	246	1697	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0152-02RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:43:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	31800	0	Standard
	Cl	**37**		ug/L			6410668	6358248	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	348864	0	Standard
|	**Cr**	**52**	**0.054**	ug/L	0.030	56	14103	15104	2	Standard
|	**Cr**	**53**	**0.198**	ug/L	0.013	6	213	597	4	Standard
⌊	**Mn**	**55**	**57.867**	ug/L	0.785	1	1173	1381865	0	Standard
⌈>	**Ge**	**72**		ug/L			25312	24805	0	KED
|	**Ni**	**60**	**0.396**	ug/L	0.011	2	9	504	1	KED
|	**Ni**	**62**	**0.514**	ug/L	0.017	3	5	108	3	KED
|	**Cu**	**63**	**0.194**	ug/L	0.016	8	32	718	8	KED
|	**Cu**	**65**	**0.200**	ug/L	0.015	7	19	378	6	KED
|	**Zn**	**66**	**0.305**	ug/L	0.017	5	13	153	5	KED
|	**Zn**	**67**	**0.357**	ug/L	0.054	15	3	31	12	KED
|	**As**	**75**	**0.036**	ug/L	0.007	18	3	12	14	KED
⌊	**Se**	**78**	**-0.031**	ug/L	0.007	23	12	11	2	KED
	Y	**89**		ug/L			192824	197787	0	Standard
	Kr	**83**		ug/L			53	53	16	Standard
⌈>	**In-1**	**115**		ug/L			5595	5572	1	KED
|	**Mo**	**98**	**0.003**	ug/L	0.003	116	12	15	24	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.004	44	5	2	33	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	220	3	4	66	KED
⌈>	**Tb**	**159**		ug/L			663522	677773	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	9	246	458	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-DUP3
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:48:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	30295	1	Standard
	Cl	**37**		ug/L			6410668	6265413	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	347295	1	Standard
|	**Cr**	**52**	**0.039**	ug/L	0.014	36	14103	14794	1	Standard
|	**Cr**	**53**	**0.199**	ug/L	0.019	9	213	595	5	Standard
⌊	**Mn**	**55**	**53.048**	ug/L	0.902	1	1173	1261190	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	25113	2	KED
|	**Ni**	**60**	**0.385**	ug/L	0.003	0	9	496	2	KED
|	**Ni**	**62**	**0.361**	ug/L	0.054	14	5	78	15	KED
|	**Cu**	**63**	**0.177**	ug/L	0.002	1	32	667	2	KED
|	**Cu**	**65**	**0.181**	ug/L	0.015	8	19	348	9	KED
|	**Zn**	**66**	**0.251**	ug/L	0.058	22	13	130	19	KED
|	**Zn**	**67**	**0.476**	ug/L	0.143	30	3	40	25	KED
|	**As**	**75**	**0.036**	ug/L	0.011	31	3	12	21	KED
⌊	**Se**	**78**	**-0.042**	ug/L	0.036	86	12	10	9	KED
	Y	**89**		ug/L			192824	194033	2	Standard
	Kr	**83**		ug/L			53	49	3	Standard
⌈>	**In-1**	**115**		ug/L			5595	5505	0	KED
|	**Mo**	**98**	**-0.002**	ug/L	0.001	44	12	9	11	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.009	272	5	4	58	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	196	3	5	79	KED
⌈>	**Tb**	**159**		ug/L			663522	669498	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	20	246	481	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-MS3
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:52:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			26112	30130	3	Standard
	Cl		**37**		ug/L			6410668	6275726	3	Standard
⌈>	**Sc**		**45**		ug/L			345750	345068	1	Standard
|	**Cr**		**52**	**0.577**	ug/L	0.020	3	14103	23392	2	Standard
|	**Cr**		**53**	**0.720**	ug/L	0.025	3	213	1584	4	Standard
⌊	**Mn**	STL	**55**	**56.339**	ug/L	0.057	0	1173	1330825	1	Standard
⌈>	**Ge**		**72**		ug/L			25312	24468	1	KED
|	**Ni**		**60**	**0.910**	ug/L	0.018	1	9	1130	0	KED
|	**Ni**		**62**	**0.945**	ug/L	0.093	9	5	192	8	KED
|	**Cu**		**63**	**0.770**	ug/L	0.047	6	32	2720	6	KED
|	**Cu**		**65**	**0.746**	ug/L	0.047	6	19	1342	7	KED
|	**Zn**		**66**	**1.955**	ug/L	0.060	3	13	901	2	KED
|	**Zn**		**67**	**2.064**	ug/L	0.168	8	3	160	8	KED
|	**As**		**75**	**0.567**	ug/L	0.038	6	3	147	6	KED
⌊	**Se**		**78**	**1.554**	ug/L	0.361	23	12	47	18	KED
	Y		**89**		ug/L			192824	190891	2	Standard
	Kr		**83**		ug/L			53	41	20	Standard
⌈>	**In-1**		**115**		ug/L			5595	5629	2	KED
|	**Mo**		**98**	**0.493**	ug/L	0.028	5	12	632	6	KED
|	**Cd**		**111**	**0.507**	ug/L	0.017	3	5	138	4	KED
⌊	**Cd**		**114**	**0.528**	ug/L	0.021	4	3	356	1	KED
⌈>	**Tb**		**159**		ug/L			663522	663904	0	Standard
⌊	**Pb**		**208**	**0.608**	ug/L	0.015	2	246	33601	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-MSD3
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, December 29, 2022 01:57:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	29344	1	Standard
	Cl	**37**		ug/L			6410668	6284677	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	348938	2	Standard
|	**Cr**	**52**	**0.526**	ug/L	0.009	1	14103	22817	2	Standard
|	**Cr**	**53**	**0.682**	ug/L	0.016	2	213	1528	2	Standard
⌊	**Mn** STL	**55**	**55.422**	ug/L	0.284	0	1173	1323949	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	24471	1	KED
|	**Ni**	**60**	**0.919**	ug/L	0.103	11	9	1141	10	KED
|	**Ni**	**62**	**1.021**	ug/L	0.128	12	5	207	11	KED
|	**Cu**	**63**	**0.705**	ug/L	0.006	0	32	2493	1	KED
|	**Cu**	**65**	**0.723**	ug/L	0.021	2	19	1301	2	KED
|	**Zn**	**66**	**1.964**	ug/L	0.054	2	13	906	1	KED
|	**Zn**	**67**	**1.949**	ug/L	0.246	12	3	151	10	KED
|	**As**	**75**	**0.540**	ug/L	0.038	7	3	140	7	KED
⌊	**Se**	**78**	**1.599**	ug/L	0.017	1	12	48	1	KED
	Y	**89**		ug/L			192824	195625	1	Standard
	Kr	**83**		ug/L			53	55	3	Standard
⌈>	**In-1**	**115**		ug/L			5595	5632	3	KED
|	**Mo**	**98**	**0.516**	ug/L	0.028	5	12	661	1	KED
|	**Cd**	**111**	**0.505**	ug/L	0.011	2	5	138	1	KED
⌊	**Cd**	**114**	**0.485**	ug/L	0.020	4	3	327	3	KED
⌈>	**Tb**	**159**		ug/L			663522	673381	0	Standard
⌊	**Pb**	**208**	**0.575**	ug/L	0.008	1	246	32244	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0152-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:02:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	35141	2	Standard
	Cl	**37**		ug/L			6410668	6767804	2	Standard
>	**Sc**	**45**		ug/L			345750	352962	2	Standard
	Cr	**52**	**0.518**	ug/L	0.037	7	14103	22948	1	Standard
	Cr	**53**	**2.077**	ug/L	0.024	1	213	4261	1	Standard
	Mn	**55**	**526.135**	ug/L	9.965	1	1173	12700607	1	Standard
>	**Ge**	**72**		ug/L			25312	22904	1	KED
	Ni	**60**	**4.030**	ug/L	0.166	4	9	4655	2	KED
	Ni	**62**	**4.196**	ug/L	0.326	7	5	784	6	KED
	Cu	**63**	**1.912**	ug/L	0.066	3	32	6275	3	KED
	Cu	**65**	**1.871**	ug/L	0.097	5	19	3124	3	KED
	Zn	**66**	**0.987**	ug/L	0.135	13	13	431	11	KED
	Zn	**67**	**2.488**	ug/L	0.167	6	3	179	5	KED
	As	**75**	**0.422**	ug/L	0.016	3	3	103	4	KED
	Se	**78**	**0.126**	ug/L	0.085	67	12	13	12	KED
	Y	**89**		ug/L			192824	186035	2	Standard
	Kr	**83**		ug/L			53	123	9	Standard
>	**In-1**	**115**		ug/L			5595	5123	2	KED
	Mo	**98**	**0.053**	ug/L	0.005	8	12	72	4	KED
	Cd	**111**	**0.026**	ug/L	0.026	96	5	11	57	KED
	Cd	**114**	**0.025**	ug/L	0.009	36	3	18	30	KED
>	**Tb**	**159**		ug/L			663522	684113	1	Standard
	Pb	**208**	**0.029**	ug/L	0.001	1	246	1869	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-DUP4
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:06:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26112	35157	2	Standard
	Cl	37		ug/L			6410668	6734596	2	Standard
>	Sc	45		ug/L			345750	350541	2	Standard
	Cr	52	0.461	ug/L	0.020	4	14103	21860	3	Standard
	Cr	53	1.949	ug/L	0.051	2	213	3984	3	Standard
	Mn	55	486.619	ug/L	1.291	0	1173	11668304	2	Standard
>	Ge	72		ug/L			25312	22845	1	KED
	Ni	60	3.724	ug/L	0.097	2	9	4293	2	KED
	Ni	62	3.780	ug/L	0.180	4	5	705	3	KED
	Cu	63	1.734	ug/L	0.029	1	32	5677	1	KED
	Cu	65	1.776	ug/L	0.042	2	19	2960	3	KED
	Zn	66	0.797	ug/L	0.018	2	13	350	3	KED
	Zn	67	1.828	ug/L	0.178	9	3	132	9	KED
	As	75	0.385	ug/L	0.017	4	3	94	3	KED
	Se	78	-0.056	ug/L	0.051	89	12	9	10	KED
	Y	89		ug/L			192824	179329	1	Standard
	Kr	83		ug/L			53	119	5	Standard
>	In-1	115		ug/L			5595	5020	2	KED
	Mo	98	0.043	ug/L	0.013	29	12	59	25	KED
	Cd	111	0.008	ug/L	0.008	106	5	6	31	KED
	Cd	114	0.021	ug/L	0.004	17	3	15	12	KED
>	Tb	159		ug/L			663522	688149	0	Standard
	Pb	208	0.026	ug/L	0.001	5	246	1723	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-MS4
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:12:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	32078	4	Standard
	Cl	**37**		ug/L			6410668	6603324	4	Standard
⌈>	**Sc**	**45**		ug/L			345750	348687	1	Standard
|	**Cr**	**52**	**5.036**	ug/L	0.051	1	14103	96385	0	Standard
|	**Cr**	**53**	**6.489**	ug/L	0.111	1	213	12695	2	Standard
⌊	**Mn**	**55**	**506.791**	ug/L	12.352	2	1173	12089604	3	Standard
⌈>	**Ge**	**72**		ug/L			25312	22633	1	KED
|	**Ni**	**60**	**9.173**	ug/L	0.024	0	9	10464	1	KED
|	**Ni**	**62**	**8.925**	ug/L	0.275	3	5	1644	3	KED
|	**Cu**	**63**	**7.242**	ug/L	0.141	1	32	23402	0	KED
|	**Cu**	**65**	**7.297**	ug/L	0.122	1	19	11993	0	KED
|	**Zn**	**66**	**17.508**	ug/L	0.527	3	13	7373	1	KED
|	**Zn**	**67**	**17.866**	ug/L	0.542	3	3	1254	1	KED
|	**As**	**75**	**5.585**	ug/L	0.026	0	3	1313	1	KED
⌊	**Se**	**78**	**15.837**	ug/L	0.446	2	12	352	3	KED
	Y	**89**		ug/L			192824	174064	1	Standard
	Kr	**83**		ug/L			53	111	11	Standard
⌈>	**In-1**	**115**		ug/L			5595	5077	0	KED
|	**Mo**	**98**	**5.379**	ug/L	0.118	2	12	6114	2	KED
|	**Cd**	**111**	**5.275**	ug/L	0.191	3	5	1258	4	KED
⌊	**Cd**	**114**	**5.396**	ug/L	0.195	3	3	3256	3	KED
⌈>	**Tb**	**159**		ug/L			663522	684448	1	Standard
⌊	**Pb**	**208**	**6.010**	ug/L	0.104	1	246	340273	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-MSD4
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:18:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26112	31601	1	Standard
	Cl	37		ug/L			6410668	6581308	3	Standard
>	Sc	45		ug/L			345750	347191	2	Standard
	Cr	52	5.058	ug/L	0.148	2	14103	96306	1	Standard
	Cr	53	6.517	ug/L	0.124	1	213	12694	3	Standard
	Mn	55	535.125	ug/L	3.255	0	1173	12708558	2	Standard
>	Ge	72		ug/L			25312	22457	1	KED
	Ni	60	9.363	ug/L	0.207	2	9	10597	1	KED
	Ni	62	9.460	ug/L	0.166	1	5	1728	1	KED
	Cu	63	7.217	ug/L	0.211	2	32	23141	1	KED
	Cu	65	7.299	ug/L	0.131	1	19	11903	0	KED
	Zn	66	17.452	ug/L	0.386	2	13	7294	1	KED
	Zn	67	18.273	ug/L	0.088	0	3	1273	1	KED
	As	75	5.578	ug/L	0.093	1	3	1301	0	KED
	Se	78	16.313	ug/L	0.090	0	12	359	1	KED
	Y	89		ug/L			192824	176792	1	Standard
	Kr	83		ug/L			53	132	15	Standard
>	In-1	115		ug/L			5595	5064	1	KED
	Mo	98	5.423	ug/L	0.103	1	12	6148	1	KED
	Cd	111	5.295	ug/L	0.105	1	5	1259	1	KED
	Cd	114	5.277	ug/L	0.095	1	3	3176	0	KED
>	Tb	159		ug/L			663522	703449	0	Standard
	Pb	208	5.886	ug/L	0.058	0	246	342560	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:23:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	25545	3	Standard
	Cl	**37**		ug/L			6410668	6243527	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	328179	2	Standard
|	**Cr**	**52**	**-0.029**	ug/L	0.015	50	14103	12934	0	Standard
|	**Cr**	**53**	**0.061**	ug/L	0.009	14	213	313	5	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	7	1173	1289	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	22635	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.001	57	9	10	10	KED
|	**Ni**	**62**	**-0.018**	ug/L	0.012	69	5	1	173	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	47	32	39	11	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.007	215	19	12	92	KED
|	**Zn**	**66**	**0.020**	ug/L	0.007	36	13	20	14	KED
|	**Zn**	**67**	**0.033**	ug/L	0.027	82	3	5	33	KED
|	**As**	**75**	**0.001**	ug/L	0.007	803	3	3	51	KED
⌊	**Se**	**78**	**-0.053**	ug/L	0.136	256	12	9	32	KED
	Y	**89**		ug/L			192824	169346	2	Standard
	Kr	**83**		ug/L			53	39	29	Standard
⌈>	**In-1**	**115**		ug/L			5595	5087	0	KED
|	**Mo**	**98**	**-0.006**	ug/L	0.004	61	12	4	100	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.006	71	5	2	57	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	645	3	2	88	KED
⌈>	**Tb**	**159**		ug/L			663522	677046	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	11	246	189	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:27:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	26573	1	Standard
	Cl	**37**		ug/L			6410668	6384641	4	Standard
⌈>	**Sc**	**45**		ug/L			345750	334672	3	Standard
|	**Cr**	**52**	**47.640**	ug/L	0.884	1	14103	759471	2	Standard
|	**Cr**	**53**	**47.257**	ug/L	0.272	0	213	87424	3	Standard
⌊	**Mn**	**55**	**48.832**	ug/L	1.311	2	1173	1118297	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	22926	0	KED
|	**Ni**	**60**	**51.896**	ug/L	1.114	2	9	59931	1	KED
|	**Ni**	**62**	**52.230**	ug/L	1.395	2	5	9725	2	KED
|	**Cu**	**63**	**53.286**	ug/L	0.632	1	32	174275	0	KED
|	**Cu**	**65**	**53.719**	ug/L	0.436	0	19	89343	0	KED
|	**Zn**	**66**	**52.653**	ug/L	0.828	1	13	22446	1	KED
|	**Zn**	**67**	**51.472**	ug/L	0.251	0	3	3656	0	KED
|	**As**	**75**	**50.062**	ug/L	0.327	0	3	11904	0	KED
⌊	**Se**	**78**	**48.252**	ug/L	0.731	1	12	1064	1	KED
	Y	**89**		ug/L			192824	175879	1	Standard
	Kr	**83**		ug/L			53	48	11	Standard
⌈>	**In-1**	**115**		ug/L			5595	5082	1	KED
|	**Mo**	**98**	**52.767**	ug/L	0.066	0	12	59947	1	KED
|	**Cd**	**111**	**53.440**	ug/L	1.043	1	5	12716	1	KED
⌊	**Cd**	**114**	**53.233**	ug/L	0.857	1	3	32130	1	KED
⌈>	**Tb**	**159**		ug/L			663522	693520	1	Standard
⌊	**Pb**	**208**	**57.101**	ug/L	1.190	2	246	3273904	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:35:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	24443	2	Standard
	Cl	**37**		ug/L			6410668	6278504	3	Standard
⎡>	**Sc**	**45**		ug/L			345750	328848	2	Standard
⎢	**Cr**	**52**	**-0.018**	ug/L	0.022	124	14103	13137	1	Standard
⎢	**Cr**	**53**	**0.005**	ug/L	0.003	65	213	212	2	Standard
⎣	**Mn**	**55**	**-0.010**	ug/L	0.001	6	1173	893	0	Standard
⎡>	**Ge**	**72**		ug/L			25312	23498	1	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.002	478	9	8	35	KED
⎢	**Ni**	**62**	**-0.001**	ug/L	0.032	2246	5	4	137	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.002	262	32	33	23	KED
⎢	**Cu**	**65**	**-0.000**	ug/L	0.003	832	19	17	29	KED
⎢	**Zn**	**66**	**0.005**	ug/L	0.005	91	13	14	15	KED
⎢	**Zn**	**67**	**0.012**	ug/L	0.039	322	3	4	65	KED
⎢	**As**	**75**	**0.006**	ug/L	0.012	208	3	4	62	KED
⎣	**Se**	**78**	**0.003**	ug/L	0.255	8562	12	11	51	KED
	Y	**89**		ug/L			192824	177416	0	Standard
	Kr	**83**		ug/L			53	46	2	Standard
⎡>	**In-1**	**115**		ug/L			5595	5390	2	KED
⎢	**Mo**	**98**	**-0.004**	ug/L	0.004	112	12	7	63	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.007	54	5	1	86	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.003	173	3	1	101	KED
⎡>	**Tb**	**159**		ug/L			663522	680503	1	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.001	32	246	163	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:40:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	44426	1	Standard
	Cl	**37**		ug/L			6410668	6824286	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	353645	1	Standard
|	**Cr**	**52**	**0.257**	ug/L	0.016	6	14103	18675	1	Standard
|	**Cr**	**53**	**1.480**	ug/L	0.065	4	213	3104	3	Standard
⌊	**Mn**	**55**	**7.375**	ug/L	0.027	0	1173	179587	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	23742	1	KED
|	**Ni**	**60**	**0.708**	ug/L	0.024	3	9	855	2	KED
|	**Ni**	**62**	**0.700**	ug/L	0.027	3	5	139	4	KED
|	**Cu**	**63**	**2.386**	ug/L	0.027	1	32	8110	0	KED
|	**Cu**	**65**	**2.484**	ug/L	0.125	5	19	4294	3	KED
|	**Zn**	**66**	**127.141**	ug/L	3.715	2	13	56103	2	KED
|	**Zn**	**67**	**120.381**	ug/L	2.238	1	3	8849	0	KED
|	**As**	**75**	**0.196**	ug/L	0.020	10	3	51	8	KED
⌊	**Se**	**78**	**0.007**	ug/L	0.067	956	12	11	12	KED
	Y	**89**		ug/L			192824	184709	1	Standard
	Kr	**83**		ug/L			53	48	22	Standard
⌈>	**In-1**	**115**		ug/L			5595	5291	2	KED
|	**Mo**	**98**	**0.973**	ug/L	0.047	4	12	1161	2	KED
|	**Cd**	**111**	**1.189**	ug/L	0.123	10	5	299	8	KED
⌊	**Cd**	**114**	**1.220**	ug/L	0.100	8	3	769	7	KED
⌈>	**Tb**	**159**		ug/L			663522	691296	1	Standard
⌊	**Pb**	**208**	**0.069**	ug/L	0.002	2	246	4185	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:44:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	45395	4	Standard
	Cl	**37**		ug/L			6410668	6371209	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	366739	2	Standard
|	**Cr**	**52**	**0.251**	ug/L	0.005	1	14103	19264	2	Standard
|	**Cr**	**53**	**0.668**	ug/L	0.019	2	213	1579	4	Standard
⌊	**Mn**	**55**	**129.235**	ug/L	2.024	1	1173	3242033	0	Standard
⌈>	**Ge**	**72**		ug/L			25312	23405	1	KED
|	**Ni**	**60**	**3.109**	ug/L	0.075	2	9	3672	1	KED
|	**Ni**	**62**	**3.072**	ug/L	0.117	3	5	588	5	KED
|	**Cu**	**63**	**3.093**	ug/L	0.064	2	32	10354	0	KED
|	**Cu**	**65**	**3.227**	ug/L	0.014	0	19	5495	1	KED
|	**Zn**	**66**	**57.882**	ug/L	0.671	1	13	25187	0	KED
|	**Zn**	**67**	**53.123**	ug/L	0.693	1	3	3851	0	KED
|	**As**	**75**	**0.350**	ug/L	0.009	2	3	88	1	KED
⌊	**Se**	**78**	**0.087**	ug/L	0.115	132	12	13	18	KED
	Y	**89**		ug/L			192824	195838	2	Standard
	Kr	**83**		ug/L			53	56	3	Standard
⌈>	**In-1**	**115**		ug/L			5595	5266	2	KED
|	**Mo**	**98**	**0.553**	ug/L	0.027	4	12	662	2	KED
|	**Cd**	**111**	**1.744**	ug/L	0.040	2	5	434	2	KED
⌊	**Cd**	**114**	**1.833**	ug/L	0.049	2	3	1148	0	KED
⌈>	**Tb**	**159**		ug/L			663522	693154	0	Standard
⌊	**Pb**	**208**	**0.182**	ug/L	0.003	1	246	10703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:49:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	46389	4	Standard
	Cl	**37**		ug/L			6410668	6246476	4	Standard
⌈>	**Sc**	**45**		ug/L			345750	387587	0	Standard
|	**Cr**	**52**	**0.127**	ug/L	0.012	9	14103	18107	1	Standard
|	**Cr**	**53**	**0.299**	ug/L	0.012	4	213	879	3	Standard
⌊	**Mn**	**55**	**226.061**	ug/L	0.998	0	1173	5993998	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	21766	0	KED
|	**Ni**	**60**	**1.529**	ug/L	0.058	3	9	1684	3	KED
|	**Ni**	**62**	**1.524**	ug/L	0.098	6	5	273	5	KED
|	**Cu**	**63**	**3.373**	ug/L	0.057	1	32	10500	2	KED
|	**Cu**	**65**	**3.451**	ug/L	0.016	0	19	5463	0	KED
|	**Zn**	**66**	**2.784**	ug/L	0.253	9	13	1137	8	KED
|	**Zn**	**67**	**3.721**	ug/L	0.386	10	3	253	10	KED
|	**As**	**75**	**1.301**	ug/L	0.079	6	3	296	5	KED
⌊	**Se**	**78**	**1.008**	ug/L	0.051	5	12	31	3	KED
	Y	**89**		ug/L			192824	171099	1	Standard
	Kr	**83**		ug/L			53	107	19	Standard
⌈>	**In-1**	**115**		ug/L			5595	4886	1	KED
|	**Mo**	**98**	**2.347**	ug/L	0.007	0	12	2574	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.006	39	5	7	18	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.003	12	3	18	8	KED
⌈>	**Tb**	**159**		ug/L			663522	674530	0	Standard
⌊	**Pb**	**208**	**0.083**	ug/L	0.002	1	246	4878	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:54:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	45891	2	Standard
	Cl	**37**		ug/L			6410668	6584741	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	359845	2	Standard
|	**Cr**	**52**	**2.201**	ug/L	0.022	1	14103	51732	1	Standard
|	**Cr**	**53**	**3.063**	ug/L	0.057	1	213	6299	1	Standard
⌊	**Mn**	**55**	**27.740**	ug/L	0.667	2	1173	683829	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	22105	5	KED
|	**Ni**	**60**	**2.439**	ug/L	0.104	4	9	2720	1	KED
|	**Ni**	**62**	**2.769**	ug/L	0.246	8	5	499	3	KED
|	**Cu**	**63**	**82.442**	ug/L	3.936	4	32	259519	0	KED
|	**Cu**	**65**	**83.554**	ug/L	3.888	4	19	133756	0	KED
|	**Zn**	**66**	**165.875**	ug/L	8.524	5	13	68034	1	KED
|	**Zn**	**67**	**153.008**	ug/L	9.005	5	3	10451	1	KED
|	**As**	**75**	**0.921**	ug/L	0.073	7	3	213	2	KED
⌊	**Se**	**78**	**0.131**	ug/L	0.078	59	12	13	18	KED
	Y	**89**		ug/L			192824	190799	1	Standard
	Kr	**83**		ug/L			53	50	12	Standard
⌈>	**In-1**	**115**		ug/L			5595	5246	0	KED
|	**Mo**	**98**	**1.665**	ug/L	0.002	0	12	1963	0	KED
|	**Cd**	**111**	**0.074**	ug/L	0.021	28	5	22	23	KED
⌊	**Cd**	**114**	**0.079**	ug/L	0.013	17	3	51	16	KED
⌈>	**Tb**	**159**		ug/L			663522	698696	1	Standard
⌊	**Pb**	**208**	**3.140**	ug/L	0.024	0	246	181625	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, December 29, 2022 02:58:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	36845	2	Standard
	Cl	**37**		ug/L			6410668	6387656	4	Standard
⌈>	**Sc**	**45**		ug/L			345750	354727	4	Standard
|	**Cr**	**52**	**1.236**	ug/L	0.102	8	14103	34940	2	Standard
|	**Cr**	**53**	**1.638**	ug/L	0.070	4	213	3421	3	Standard
⌊	**Mn**	**55**	**14.247**	ug/L	0.517	3	1173	346495	0	Standard
⌈>	**Ge**	**72**		ug/L			25312	23717	0	KED
|	**Ni**	**60**	**1.136**	ug/L	0.012	1	9	1366	0	KED
|	**Ni**	**62**	**1.238**	ug/L	0.069	5	5	243	5	KED
|	**Cu**	**63**	**39.018**	ug/L	0.523	1	32	132019	0	KED
|	**Cu**	**65**	**39.381**	ug/L	2.274	5	19	67752	5	KED
|	**Zn**	**66**	**76.762**	ug/L	2.203	2	13	33844	2	KED
|	**Zn**	**67**	**73.739**	ug/L	2.113	2	3	5416	2	KED
|	**As**	**75**	**0.411**	ug/L	0.021	5	3	104	4	KED
⌊	**Se**	**78**	**-0.008**	ug/L	0.044	514	12	11	8	KED
	Y	**89**		ug/L			192824	186830	2	Standard
	Kr	**83**		ug/L			53	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5595	5396	0	KED
|	**Mo**	**98**	**0.834**	ug/L	0.048	5	12	1018	4	KED
|	**Cd**	**111**	**0.032**	ug/L	0.005	16	5	13	11	KED
⌊	**Cd**	**114**	**0.046**	ug/L	0.006	12	3	32	11	KED
⌈>	**Tb**	**159**		ug/L			663522	681134	0	Standard
⌊	**Pb**	**208**	**1.938**	ug/L	0.005	0	246	109404	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0187-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:03:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	35485	5	Standard
	Cl	**37**		ug/L			6410668	12420941	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	359407	1	Standard
|	**Cr**	**52**	**0.964**	ug/L	0.029	2	14103	30864	2	Standard
|	**Cr**	**53**	**16.117**	ug/L	0.169	1	213	32172	2	Standard
⌊	**Mn**	**55**	**19.555**	ug/L	0.351	1	1173	481938	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	22554	1	KED
|	**Ni**	**60**	**0.546**	ug/L	0.019	3	9	628	2	KED
|	**Ni**	**62**	**0.489**	ug/L	0.011	2	5	93	1	KED
|	**Cu**	**63**	**4.189**	ug/L	0.029	0	32	13505	1	KED
|	**Cu**	**65**	**4.249**	ug/L	0.132	3	19	6968	3	KED
|	**Zn**	**66**	**26.177**	ug/L	1.007	3	13	10980	2	KED
|	**Zn**	**67**	**26.258**	ug/L	0.514	1	3	1836	3	KED
|	**As**	**75**	**0.285**	ug/L	0.013	4	3	69	4	KED
⌊	**Se**	**78**	**0.196**	ug/L	0.110	56	12	14	15	KED
	Y	**89**		ug/L			192824	183220	1	Standard
	Kr	**83**		ug/L			53	48	18	Standard
⌈>	**In-1**	**115**		ug/L			5595	5008	1	KED
|	**Mo**	**98**	**1.321**	ug/L	0.047	3	12	1489	2	KED
|	**Cd**	**111**	**0.063**	ug/L	0.009	13	5	19	10	KED
⌊	**Cd**	**114**	**0.054**	ug/L	0.035	64	3	34	60	KED
⌈>	**Tb**	**159**		ug/L			663522	655399	1	Standard
⌊	**Pb**	**208**	**0.112**	ug/L	0.002	2	246	6299	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0187-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:07:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	37130	1	Standard
	Cl	**37**		ug/L			6410668	15313728	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	358433	1	Standard
|	**Cr**	**52**	**0.401**	ug/L	0.016	3	14103	21346	1	Standard
|	**Cr**	**53**	**20.845**	ug/L	0.407	1	213	41431	2	Standard
⌊	**Mn**	**55**	**31.047**	ug/L	0.323	1	1173	762328	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	22608	0	KED
|	**Ni**	**60**	**0.674**	ug/L	0.014	2	9	775	1	KED
|	**Ni**	**62**	**0.730**	ug/L	0.144	19	5	138	18	KED
|	**Cu**	**63**	**3.866**	ug/L	0.038	0	32	12496	0	KED
|	**Cu**	**65**	**3.913**	ug/L	0.112	2	19	6432	2	KED
|	**Zn**	**66**	**25.293**	ug/L	0.445	1	13	10640	2	KED
|	**Zn**	**67**	**26.380**	ug/L	0.126	0	3	1849	1	KED
|	**As**	**75**	**0.289**	ug/L	0.030	10	3	70	10	KED
⌊	**Se**	**78**	**0.112**	ug/L	0.150	134	12	13	25	KED
	Y	**89**		ug/L			192824	187925	2	Standard
	Kr	**83**		ug/L			53	48	18	Standard
⌈>	**In-1**	**115**		ug/L			5595	5031	1	KED
|	**Mo**	**98**	**0.991**	ug/L	0.031	3	12	1125	3	KED
|	**Cd**	**111**	**0.084**	ug/L	0.004	4	5	24	2	KED
⌊	**Cd**	**114**	**0.114**	ug/L	0.037	32	3	70	31	KED
⌈>	**Tb**	**159**		ug/L			663522	631662	1	Standard
⌊	**Pb**	**208**	**0.164**	ug/L	0.004	2	246	8797	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-DUP1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:12:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	39519	1	Standard
	Cl	**37**		ug/L			6410668	15801862	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	368554	0	Standard
|	**Cr**	**52**	**0.388**	ug/L	0.032	8	14103	21736	3	Standard
|	**Cr**	**53**	**21.695**	ug/L	0.489	2	213	44327	2	Standard
⌊	**Mn**	**55**	**31.019**	ug/L	0.263	0	1173	783124	0	Standard
⌈>	**Ge**	**72**		ug/L			25312	22836	0	KED
|	**Ni**	**60**	**0.674**	ug/L	0.032	4	9	783	4	KED
|	**Ni**	**62**	**0.725**	ug/L	0.005	0	5	139	1	KED
|	**Cu**	**63**	**3.880**	ug/L	0.085	2	32	12667	1	KED
|	**Cu**	**65**	**3.848**	ug/L	0.025	0	19	6391	0	KED
|	**Zn**	**66**	**26.125**	ug/L	0.185	0	13	11098	0	KED
|	**Zn**	**67**	**26.640**	ug/L	0.467	1	3	1886	1	KED
|	**As**	**75**	**0.274**	ug/L	0.025	9	3	67	9	KED
⌊	**Se**	**78**	**0.036**	ug/L	0.092	256	12	11	17	KED
	Y	**89**		ug/L			192824	199713	1	Standard
	Kr	**83**		ug/L			53	58	27	Standard
⌈>	**In-1**	**115**		ug/L			5595	5071	2	KED
|	**Mo**	**98**	**0.993**	ug/L	0.034	3	12	1136	2	KED
|	**Cd**	**111**	**0.096**	ug/L	0.034	35	5	27	27	KED
⌊	**Cd**	**114**	**0.089**	ug/L	0.007	8	3	56	7	KED
⌈>	**Tb**	**159**		ug/L			663522	640093	1	Standard
⌊	**Pb**	**208**	**0.166**	ug/L	0.005	2	246	9045	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-MS1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:19:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	39717	0	Standard
	Cl	**37**		ug/L			6410668	15967547	4	Standard
⌈>	**Sc**	**45**		ug/L			345750	383185	2	Standard
|	**Cr**	**52**	**5.013**	ug/L	0.195	3	14103	105466	1	Standard
|	**Cr**	**53**	**26.237**	ug/L	0.224	0	213	55681	2	Standard
⌊	**Mn**	**55**	**34.715**	ug/L	0.847	2	1173	911001	3	Standard
⌈>	**Ge**	**72**		ug/L			25312	23658	0	KED
|	**Ni**	**60**	**5.909**	ug/L	0.219	3	9	7050	4	KED
|	**Ni**	**62**	**6.012**	ug/L	0.235	3	5	1159	4	KED
|	**Cu**	**63**	**9.000**	ug/L	0.066	0	32	30400	1	KED
|	**Cu**	**65**	**9.025**	ug/L	0.193	2	19	15503	1	KED
|	**Zn**	**66**	**41.033**	ug/L	0.266	0	13	18052	0	KED
|	**Zn**	**67**	**40.119**	ug/L	1.135	2	3	2941	2	KED
|	**As**	**75**	**5.470**	ug/L	0.162	2	3	1344	2	KED
⌊	**Se**	**78**	**14.895**	ug/L	0.166	1	12	346	0	KED
	Y	**89**		ug/L			192824	201856	1	Standard
	Kr	**83**		ug/L			53	62	9	Standard
⌈>	**In-1**	**115**		ug/L			5595	5285	2	KED
|	**Mo**	**98**	**0.998**	ug/L	0.051	5	12	1189	3	KED
|	**Cd**	**111**	**5.246**	ug/L	0.100	1	5	1302	1	KED
⌊	**Cd**	**114**	**5.194**	ug/L	0.032	0	3	3263	2	KED
⌈>	**Tb**	**159**		ug/L			663522	644015	2	Standard
⌊	**Pb**	**208**	**5.579**	ug/L	0.191	3	246	297112	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:24:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	29845	3	Standard
	Cl	**37**		ug/L			6410668	7069637	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	380547	1	Standard
|	**Cr**	**52**	**-0.033**	ug/L	0.013	40	14103	14940	2	Standard
|	**Cr**	**53**	**0.948**	ug/L	0.021	2	213	2223	1	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.004	32	1173	1008	8	Standard
⌈>	**Ge**	**72**		ug/L			25312	25862	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.001	16	9	3	34	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.014	145	5	3	91	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	120	32	41	23	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	83	19	24	16	KED
|	**Zn**	**66**	**0.015**	ug/L	0.012	77	13	20	27	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.024	96	3	1	100	KED
|	**As**	**75**	**0.001**	ug/L	0.006	416	3	3	42	KED
⌊	**Se**	**78**	**0.010**	ug/L	0.089	908	12	12	17	KED
	Y	**89**		ug/L			192824	209930	2	Standard
	Kr	**83**		ug/L			53	60	35	Standard
⌈>	**In-1**	**115**		ug/L			5595	5847	1	KED
|	**Mo**	**98**	**-0.008**	ug/L	0.001	11	12	2	37	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.004	65	5	3	31	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	137	3	1	107	KED
⌈>	**Tb**	**159**		ug/L			663522	670438	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	4	246	554	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:28:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	30176	1	Standard
	Cl	**37**		ug/L			6410668	7042458	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	375162	0	Standard
|	**Cr**	**52**	**47.711**	ug/L	1.292	2	14103	852925	2	Standard
|	**Cr**	**53**	**48.689**	ug/L	0.389	0	213	100974	1	Standard
⌊	**Mn**	**55**	**49.223**	ug/L	0.854	1	1173	1264344	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	24895	0	KED
|	**Ni**	**60**	**51.562**	ug/L	0.559	1	9	64664	1	KED
|	**Ni**	**62**	**51.671**	ug/L	1.439	2	5	10447	2	KED
|	**Cu**	**63**	**52.994**	ug/L	0.370	0	32	188204	0	KED
|	**Cu**	**65**	**54.064**	ug/L	0.285	0	19	97639	0	KED
|	**Zn**	**66**	**51.901**	ug/L	0.766	1	13	24023	0	KED
|	**Zn**	**67**	**51.528**	ug/L	0.671	1	3	3974	1	KED
|	**As**	**75**	**50.872**	ug/L	0.961	1	3	13135	1	KED
⌊	**Se**	**78**	**49.116**	ug/L	1.176	2	12	1176	1	KED
	Y	**89**		ug/L			192824	207075	1	Standard
	Kr	**83**		ug/L			53	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5595	5716	2	KED
|	**Mo**	**98**	**50.999**	ug/L	1.553	3	12	65139	2	KED
|	**Cd**	**111**	**50.978**	ug/L	1.476	2	5	13639	0	KED
⌊	**Cd**	**114**	**51.982**	ug/L	1.803	3	3	35272	0	KED
⌈>	**Tb**	**159**		ug/L			663522	689823	1	Standard
⌊	**Pb**	**208**	**54.602**	ug/L	0.578	1	246	3114127	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:36:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	27451	1	Standard
	Cl	**37**		ug/L			6410668	6703380	1	Standard
⌈>	**Sc**	**45**		ug/L			345750	369077	1	Standard
|	**Cr**	**52**	**-0.008**	ug/L	0.012	139	14103	14907	0	Standard
|	**Cr**	**53**	**0.331**	ug/L	0.006	1	213	902	2	Standard
⌊	**Mn**	**55**	**-0.013**	ug/L	0.001	6	1173	917	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	25577	2	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.001	15	9	2	43	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.014	145	5	3	91	KED
|	**Cu**	**63**	**0.012**	ug/L	0.005	39	32	74	20	KED
|	**Cu**	**65**	**0.010**	ug/L	0.005	53	19	36	23	KED
|	**Zn**	**66**	**0.016**	ug/L	0.011	72	13	20	27	KED
|	**Zn**	**67**	**-0.017**	ug/L	0.013	78	3	2	43	KED
|	**As**	**75**	**-0.002**	ug/L	0.003	154	3	3	24	KED
⌊	**Se**	**78**	**-0.084**	ug/L	0.062	73	12	10	15	KED
	Y	**89**		ug/L			192824	204069	1	Standard
	Kr	**83**		ug/L			53	45	38	Standard
⌈>	**In-1**	**115**		ug/L			5595	5886	4	KED
|	**Mo**	**98**	**-0.004**	ug/L	0.001	16	12	8	14	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.007	82	5	2	66	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	58	3	1	94	KED
⌈>	**Tb**	**159**		ug/L			663522	676053	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	130	246	278	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:40:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	42424	2	Standard
	Cl	**37**		ug/L			6410668	6713261	2	Standard
⎡>	**Sc**	**45**		ug/L			345750	388690	1	Standard
⎢	**Cr**	**52**	**0.027**	ug/L	0.008	30	14103	16353	0	Standard
⎢	**Cr**	**53**	**0.309**	ug/L	0.009	2	213	902	2	Standard
⎣	**Mn**	**55**	**0.075**	ug/L	0.002	2	1173	3323	0	Standard
⎡>	**Ge**	**72**		ug/L			25312	25456	0	KED
⎢	**Ni**	**60**	**0.002**	ug/L	0.009	357	9	12	87	KED
⎢	**Ni**	**62**	**-0.000**	ug/L	0.028	33686	5	5	114	KED
⎢	**Cu**	**63**	**0.030**	ug/L	0.002	7	32	141	5	KED
⎢	**Cu**	**65**	**0.021**	ug/L	0.003	15	19	57	10	KED
⎢	**Zn**	**66**	**0.224**	ug/L	0.023	10	13	119	9	KED
⎢	**Zn**	**67**	**0.225**	ug/L	0.112	49	3	21	40	KED
⎢	**As**	**75**	**0.005**	ug/L	0.004	69	3	4	20	KED
⎣	**Se**	**78**	**-0.035**	ug/L	0.114	324	12	11	23	KED
	Y	**89**		ug/L			192824	205219	0	Standard
	Kr	**83**		ug/L			53	46	29	Standard
⎡>	**In-1**	**115**		ug/L			5595	5691	1	KED
⎢	**Mo**	**98**	**0.001**	ug/L	0.008	843	12	13	73	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.009	147	5	3	68	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.006	894	3	3	122	KED
⎡>	**Tb**	**159**		ug/L			663522	686925	0	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.001	8	246	589	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:45:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	40920	0	Standard
	Cl	**37**		ug/L			6410668	6639415	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	382921	1	Standard
|	**Cr**	**52**	**23.549**	ug/L	0.278	1	14103	437556	1	Standard
|	**Cr**	**53**	**23.476**	ug/L	0.340	1	213	49818	2	Standard
⌊	**Mn**	**55**	**24.137**	ug/L	0.212	0	1173	633407	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	25364	1	KED
|	**Ni**	**60**	**25.778**	ug/L	0.739	2	9	32936	2	KED
|	**Ni**	**62**	**25.987**	ug/L	0.807	3	5	5355	2	KED
|	**Cu**	**63**	**27.048**	ug/L	0.513	1	32	97872	1	KED
|	**Cu**	**65**	**27.032**	ug/L	0.376	1	19	49742	0	KED
|	**Zn**	**66**	**84.100**	ug/L	1.700	2	13	39648	0	KED
|	**Zn**	**67**	**77.555**	ug/L	2.223	2	3	6091	1	KED
|	**As**	**75**	**24.758**	ug/L	0.152	0	3	6514	1	KED
⌊	**Se**	**78**	**77.297**	ug/L	1.025	1	12	1879	2	KED
	Y	**89**		ug/L			192824	201026	0	Standard
	Kr	**83**		ug/L			53	62	26	Standard
⌈>	**In-1**	**115**		ug/L			5595	5882	2	KED
|	**Mo**	**98**	**-0.006**	ug/L	0.003	46	12	5	69	KED
|	**Cd**	**111**	**25.156**	ug/L	0.726	2	5	6929	1	KED
⌊	**Cd**	**114**	**25.338**	ug/L	0.193	0	3	17704	2	KED
⌈>	**Tb**	**159**		ug/L			663522	680433	1	Standard
⌊	**Pb**	**208**	**28.543**	ug/L	0.403	1	246	1605752	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0558-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:50:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26112	41394	2	Standard
	Cl	37		ug/L			6410668	6669137	2	Standard
>	Sc	45		ug/L			345750	371528	1	Standard
	Cr	52	0.024	ug/L	0.010	41	14103	15569	0	Standard
	Cr	53	0.197	ug/L	0.002	1	213	633	2	Standard
	Mn	55	0.013	ug/L	0.002	11	1173	1591	4	Standard
>	Ge	72		ug/L			25312	25110	1	KED
	Ni	60	0.000	ug/L	0.004	4669	9	9	52	KED
	Ni	62	-0.003	ug/L	0.014	490	5	4	65	KED
	Cu	63	0.044	ug/L	0.003	6	32	189	4	KED
	Cu	65	0.033	ug/L	0.008	23	19	79	15	KED
	Zn	66	0.213	ug/L	0.006	2	13	112	1	KED
	Zn	67	0.155	ug/L	0.068	44	3	15	34	KED
	As	75	0.009	ug/L	0.006	59	3	5	23	KED
	Se	78	0.072	ug/L	0.072	100	12	13	12	KED
	Y	89		ug/L			192824	202343	1	Standard
	Kr	83		ug/L			53	52	36	Standard
>	In-1	115		ug/L			5595	5849	2	KED
	Mo	98	-0.001	ug/L	0.002	389	12	12	26	KED
	Cd	111	-0.009	ug/L	0.009	97	5	2	88	KED
	Cd	114	-0.002	ug/L	0.003	124	3	1	126	KED
>	Tb	159		ug/L			663522	675544	0	Standard
	Pb	208	0.011	ug/L	0.001	5	246	866	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0558-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:54:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	43657	2	Standard
	Cl	**37**		ug/L			6410668	6821312	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	374894	2	Standard
|	**Cr**	**52**	**24.491**	ug/L	0.179	0	14103	444872	2	Standard
|	**Cr**	**53**	**24.068**	ug/L	0.430	1	213	49978	1	Standard
⌊	**Mn**	**55**	**24.713**	ug/L	0.491	1	1173	634735	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	24896	1	KED
|	**Ni**	**60**	**25.886**	ug/L	0.615	2	9	32464	1	KED
|	**Ni**	**62**	**26.383**	ug/L	0.396	1	5	5336	1	KED
|	**Cu**	**63**	**26.075**	ug/L	0.544	2	32	92605	0	KED
|	**Cu**	**65**	**26.499**	ug/L	0.558	2	19	47861	1	KED
|	**Zn**	**66**	**82.952**	ug/L	1.426	1	13	38388	1	KED
|	**Zn**	**67**	**78.934**	ug/L	2.112	2	3	6085	0	KED
|	**As**	**75**	**25.277**	ug/L	0.349	1	3	6528	0	KED
⌊	**Se**	**78**	**77.031**	ug/L	1.834	2	12	1837	2	KED
	Y	**89**		ug/L			192824	204359	1	Standard
	Kr	**83**		ug/L			53	49	10	Standard
⌈>	**In-1**	**115**		ug/L			5595	5575	0	KED
|	**Mo**	**98**	**26.911**	ug/L	0.293	1	12	33543	1	KED
|	**Cd**	**111**	**25.730**	ug/L	0.063	0	5	6720	0	KED
⌊	**Cd**	**114**	**26.347**	ug/L	0.313	1	3	17449	1	KED
⌈>	**Tb**	**159**		ug/L			663522	687357	2	Standard
⌊	**Pb**	**208**	**28.360**	ug/L	0.675	2	246	1611420	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0149-01RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, December 29, 2022 03:59:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	31932	0	Standard
	Cl	**37**		ug/L			6410668	6657722	1	Standard
⌈>	**Sc**	**45**		ug/L			345750	361033	0	Standard
|	**Cr**	**52**	**0.076**	ug/L	0.017	22	14103	16002	1	Standard
|	**Cr**	**53**	**0.281**	ug/L	0.012	4	213	782	3	Standard
⌊	**Mn**	**55**	**1.844**	ug/L	0.027	1	1173	46747	0	Standard
⌈>	**Ge**	**72**		ug/L			25312	24945	2	KED
|	**Ni**	**60**	**0.108**	ug/L	0.031	29	9	144	24	KED
|	**Ni**	**62**	**0.104**	ug/L	0.030	29	5	26	23	KED
|	**Cu**	**63**	**0.838**	ug/L	0.034	4	32	3010	1	KED
|	**Cu**	**65**	**0.871**	ug/L	0.037	4	19	1594	1	KED
|	**Zn**	**66**	**78.164**	ug/L	1.704	2	13	36236	0	KED
|	**Zn**	**67**	**71.278**	ug/L	1.901	2	3	5505	0	KED
|	**As**	**75**	**0.075**	ug/L	0.035	46	3	22	37	KED
⌊	**Se**	**78**	**-0.042**	ug/L	0.115	271	12	10	24	KED
	Y	**89**		ug/L			192824	198802	2	Standard
	Kr	**83**		ug/L			53	51	12	Standard
⌈>	**In-1**	**115**		ug/L			5595	5641	1	KED
|	**Mo**	**98**	**0.028**	ug/L	0.005	18	12	47	12	KED
|	**Cd**	**111**	**0.151**	ug/L	0.038	24	5	45	22	KED
⌊	**Cd**	**114**	**0.165**	ug/L	0.019	11	3	113	9	KED
⌈>	**Tb**	**159**		ug/L			663522	670621	0	Standard
⌊	**Pb**	**208**	**0.189**	ug/L	0.002	1	246	10704	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0149-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:04:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	40067	3	Standard
	Cl	**37**		ug/L			6410668	6732512	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	372564	0	Standard
|	**Cr**	**52**	**0.359**	ug/L	0.030	8	14103	21446	2	Standard
|	**Cr**	**53**	**0.853**	ug/L	0.033	3	213	1983	3	Standard
⌊	**Mn**	**55**	**8.774**	ug/L	0.195	2	1173	224833	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	25739	0	KED
|	**Ni**	**60**	**0.375**	ug/L	0.011	2	9	495	3	KED
|	**Ni**	**62**	**0.364**	ug/L	0.057	15	5	81	15	KED
|	**Cu**	**63**	**3.827**	ug/L	0.063	1	32	14084	1	KED
|	**Cu**	**65**	**3.911**	ug/L	0.048	1	19	7320	1	KED
|	**Zn**	**66**	**359.665**	ug/L	11.684	3	13	172044	2	KED
|	**Zn**	**67**	**334.594**	ug/L	1.850	0	3	26662	0	KED
|	**As**	**75**	**0.290**	ug/L	0.017	5	3	80	5	KED
⌊	**Se**	**78**	**0.019**	ug/L	0.188	996	12	12	36	KED
	Y	**89**		ug/L			192824	204239	0	Standard
	Kr	**83**		ug/L			53	52	11	Standard
⌈>	**In-1**	**115**		ug/L			5595	5820	3	KED
|	**Mo**	**98**	**0.160**	ug/L	0.032	19	12	220	15	KED
|	**Cd**	**111**	**0.757**	ug/L	0.049	6	5	211	3	KED
⌊	**Cd**	**114**	**0.781**	ug/L	0.050	6	3	543	9	KED
⌈>	**Tb**	**159**		ug/L			663522	679588	1	Standard
⌊	**Pb**	**208**	**0.868**	ug/L	0.010	1	246	49031	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0213-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:09:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	37391	0	Standard
	Cl	**37**		ug/L			6410668	6635706	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	372015	2	Standard
|	**Cr**	**52**	**2.045**	ug/L	0.047	2	14103	50778	2	Standard
|	**Cr**	**53**	**2.282**	ug/L	0.063	2	213	4914	4	Standard
⌊	**Mn**	**55**	**19.453**	ug/L	0.437	2	1173	496092	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	25587	0	KED
|	**Ni**	**60**	**7.946**	ug/L	0.348	4	9	10251	4	KED
|	**Ni**	**62**	**8.154**	ug/L	0.340	4	5	1699	4	KED
|	**Cu**	**63**	**21.250**	ug/L	0.252	1	32	77591	1	KED
|	**Cu**	**65**	**21.332**	ug/L	0.303	1	19	39611	1	KED
|	**Zn**	**66**	**21.413**	ug/L	0.552	2	13	10196	3	KED
|	**Zn**	**67**	**20.016**	ug/L	0.300	1	3	1589	1	KED
|	**As**	**75**	**0.044**	ug/L	0.020	46	3	15	34	KED
⌊	**Se**	**78**	**0.152**	ug/L	0.184	120	12	15	27	KED
	Y	**89**		ug/L			192824	207755	0	Standard
	Kr	**83**		ug/L			53	41	23	Standard
⌈>	**In-1**	**115**		ug/L			5595	5939	4	KED
|	**Mo**	**98**	**0.601**	ug/L	0.107	17	12	807	13	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.011	4688	5	5	61	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.013	196	3	7	116	KED
⌈>	**Tb**	**159**		ug/L			663522	683956	1	Standard
⌊	**Pb**	**208**	**5.205**	ug/L	0.097	1	246	294530	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0495-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:13:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	40318	0	Standard
	Cl	**37**		ug/L			6410668	6742643	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	368277	3	Standard
|	**Cr**	**52**	**0.313**	ug/L	0.020	6	14103	20405	1	Standard
|	**Cr**	**53**	**0.957**	ug/L	0.001	0	213	2172	3	Standard
⌊	**Mn**	**55**	**2.372**	ug/L	0.038	1	1173	60977	2	Standard
⌈>	**Ge**	**72**		ug/L			25312	25442	0	KED
|	**Ni**	**60**	**0.218**	ug/L	0.009	4	9	288	4	KED
|	**Ni**	**62**	**0.200**	ug/L	0.014	6	5	46	6	KED
|	**Cu**	**63**	**1.304**	ug/L	0.039	3	32	4764	3	KED
|	**Cu**	**65**	**1.325**	ug/L	0.079	5	19	2464	5	KED
|	**Zn**	**66**	**112.408**	ug/L	0.770	0	13	53164	1	KED
|	**Zn**	**67**	**104.821**	ug/L	0.747	0	3	8259	1	KED
|	**As**	**75**	**0.112**	ug/L	0.014	12	3	33	11	KED
⌊	**Se**	**78**	**0.052**	ug/L	0.132	255	12	13	23	KED
	Y	**89**		ug/L			192824	202665	1	Standard
	Kr	**83**		ug/L			53	42	31	Standard
⌈>	**In-1**	**115**		ug/L			5595	5675	4	KED
|	**Mo**	**98**	**0.057**	ug/L	0.010	17	12	84	11	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.007	541	5	4	34	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.009	109	3	8	67	KED
⌈>	**Tb**	**159**		ug/L			663522	677563	0	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.001	5	246	956	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0139-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:18:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	71205	3	Standard
	Cl	**37**		ug/L			6410668	6540341	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	343573	2	Standard
|	**Cr**	**52**	**0.972**	ug/L	0.049	5	14103	29629	0	Standard
|	**Cr**	**53**	**1.321**	ug/L	0.015	1	213	2714	2	Standard
⌊	**Mn**	**55**	**1.038**	ug/L	0.016	1	1173	25544	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	23547	0	KED
|	**Ni**	**60**	**0.213**	ug/L	0.014	6	9	261	6	KED
|	**Ni**	**62**	**0.251**	ug/L	0.076	30	5	52	27	KED
|	**Cu**	**63**	**11.648**	ug/L	0.108	0	32	39149	1	KED
|	**Cu**	**65**	**11.780**	ug/L	0.326	2	19	20132	1	KED
|	**Zn**	**66**	**3.115**	ug/L	0.212	6	13	1375	7	KED
|	**Zn**	**67**	**2.791**	ug/L	0.081	2	3	206	3	KED
|	**As**	**75**	**0.065**	ug/L	0.010	15	3	19	12	KED
⌊	**Se**	**78**	**0.214**	ug/L	0.164	76	12	16	23	KED
	Y	**89**		ug/L			192824	189884	2	Standard
	Kr	**83**		ug/L			53	59	3	Standard
⌈>	**In-1**	**115**		ug/L			5595	5234	1	KED
|	**Mo**	**98**	**0.350**	ug/L	0.019	5	12	421	4	KED
|	**Cd**	**111**	**0.277**	ug/L	0.479	173	5	72	161	KED
⌊	**Cd**	**114**	**0.107**	ug/L	0.181	169	3	69	162	KED
⌈>	**Tb**	**159**		ug/L			663522	662282	1	Standard
⌊	**Pb**	**208**	**0.035**	ug/L	0.002	5	246	2184	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:24:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	28606	1	Standard
	Cl	**37**		ug/L			6410668	6424048	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	357558	2	Standard
|	**Cr**	**52**	**-0.045**	ug/L	0.006	12	14103	13827	2	Standard
|	**Cr**	**53**	**0.054**	ug/L	0.002	3	213	326	3	Standard
⌊	**Mn**	**55**	**-0.022**	ug/L	0.001	2	1173	684	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	24413	0	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	158	9	6	69	KED
|	**Ni**	**62**	**-0.009**	ug/L	0.020	230	5	3	124	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	32	41	14	KED
|	**Cu**	**65**	**0.005**	ug/L	0.008	167	19	26	51	KED
|	**Zn**	**66**	**0.018**	ug/L	0.007	41	13	20	15	KED
|	**Zn**	**67**	**0.052**	ug/L	0.066	127	3	7	66	KED
|	**As**	**75**	**-0.001**	ug/L	0.004	293	3	3	32	KED
⌊	**Se**	**78**	**0.033**	ug/L	0.177	537	12	12	32	KED
	Y	**89**		ug/L			192824	191403	3	Standard
	Kr	**83**		ug/L			53	42	29	Standard
⌈>	**In-1**	**115**		ug/L			5595	5667	3	KED
|	**Mo**	**98**	**-0.007**	ug/L	0.003	34	12	3	101	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.004	44	5	2	33	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	17119	3	3	92	KED
⌈>	**Tb**	**159**		ug/L			663522	674105	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	24	246	146	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:29:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	29153	1	Standard
	Cl	**37**		ug/L			6410668	6741319	2	Standard
⌈>	**Sc**	**45**		ug/L			345750	364655	2	Standard
|	**Cr**	**52**	**47.440**	ug/L	0.905	1	14103	824155	1	Standard
|	**Cr**	**53**	**47.572**	ug/L	0.232	0	213	95894	2	Standard
⌊	**Mn**	**55**	**48.509**	ug/L	0.795	1	1173	1210794	1	Standard
⌈>	**Ge**	**72**		ug/L			25312	24655	0	KED
|	**Ni**	**60**	**51.665**	ug/L	0.577	1	9	64165	0	KED
|	**Ni**	**62**	**51.837**	ug/L	0.863	1	5	10379	0	KED
|	**Cu**	**63**	**52.781**	ug/L	1.234	2	32	185625	1	KED
|	**Cu**	**65**	**53.394**	ug/L	0.988	1	19	95492	1	KED
|	**Zn**	**66**	**51.684**	ug/L	0.542	1	13	23693	0	KED
|	**Zn**	**67**	**50.727**	ug/L	1.167	2	3	3875	2	KED
|	**As**	**75**	**49.765**	ug/L	0.257	0	3	12726	0	KED
⌊	**Se**	**78**	**47.810**	ug/L	0.392	0	12	1134	1	KED
	Y	**89**		ug/L			192824	197937	2	Standard
	Kr	**83**		ug/L			53	50	24	Standard
⌈>	**In-1**	**115**		ug/L			5595	5553	1	KED
|	**Mo**	**98**	**50.809**	ug/L	0.412	0	12	63064	0	KED
|	**Cd**	**111**	**51.511**	ug/L	0.578	1	5	13393	0	KED
⌊	**Cd**	**114**	**52.202**	ug/L	0.391	0	3	34430	1	KED
⌈>	**Tb**	**159**		ug/L			663522	706939	1	Standard
⌊	**Pb**	**208**	**54.891**	ug/L	0.745	1	246	3208315	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:36:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26112	27221	2	Standard
	Cl	**37**		ug/L			6410668	6504080	3	Standard
⌈>	**Sc**	**45**		ug/L			345750	358922	3	Standard
|	**Cr**	**52**	**-0.022**	ug/L	0.008	33	14103	14265	2	Standard
|	**Cr**	**53**	**0.031**	ug/L	0.003	8	213	282	3	Standard
⌊	**Mn**	**55**	**-0.021**	ug/L	0.000	0	1173	700	3	Standard
⌈>	**Ge**	**72**		ug/L			25312	25567	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.002	50	9	5	43	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.011	58	5	1	173	KED
|	**Cu**	**63**	**0.010**	ug/L	0.003	32	32	70	16	KED
|	**Cu**	**65**	**0.008**	ug/L	0.003	43	19	33	18	KED
|	**Zn**	**66**	**0.009**	ug/L	0.006	64	13	17	16	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.028	84	3	1	173	KED
|	**As**	**75**	**0.001**	ug/L	0.003	283	3	3	21	KED
⌊	**Se**	**78**	**0.019**	ug/L	0.069	357	12	12	14	KED
	Y	**89**		ug/L			192824	194153	2	Standard
	Kr	**83**		ug/L			53	51	11	Standard
⌈>	**In-1**	**115**		ug/L			5595	5745	0	KED
|	**Mo**	**98**	**0.001**	ug/L	0.000	14	12	14	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.004	30	5	1	69	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	506	3	3	86	KED
⌈>	**Tb**	**159**		ug/L			663522	676151	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	2	246	135	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:41:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27319	1	Standard
	Cl	**37**		ug/L				6475826	2	Standard
⎡>	**Sc**	**45**		ug/L				356827	1	Standard
⎢	**Cr**	**52**		ug/L				14165	2	Standard
⎢	**Cr**	**53**		ug/L				288	4	Standard
⎣	**Mn**	**55**		ug/L				716	2	Standard
⎡>	**Ge**	**72**		ug/L				24857	1	KED
⎢	**Ni**	**60**		ug/L				5	57	KED
⎢	**Ni**	**62**		ug/L				1	100	KED
⎢	**Cu**	**63**		ug/L				26	7	KED
⎢	**Cu**	**65**		ug/L				10	26	KED
⎢	**Zn**	**66**		ug/L				14	52	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎢	**As**	**75**		ug/L				4	11	KED
⎣	**Se**	**78**		ug/L				13	19	KED
	Y	**89**		ug/L				193494	0	Standard
	Kr	**83**		ug/L				46	17	Standard
⎡>	**In-1**	**115**		ug/L				5439	1	KED
⎢	**Mo**	**98**		ug/L				4	19	KED
⎢	**Cd**	**111**		ug/L				4	60	KED
⎣	**Cd**	**114**		ug/L				2	92	KED
⎡>	**Tb**	**159**		ug/L				674075	0	Standard
⎣	**Pb**	**208**		ug/L				135	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:46:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	26771	1	Standard
	Cl	**37**		ug/L			6475826	6779756	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	362415	1	Standard
|	**Cr**	**52**	**46.344**	ug/L	0.243	0	14165	800289	0	Standard
|	**Cr**	**53**	**46.403**	ug/L	0.497	1	288	93049	2	Standard
⌊	**Mn**	**55**	**47.359**	ug/L	0.492	1	716	1174604	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	24401	1	KED
|	**Ni**	**60**	**50.866**	ug/L	0.701	1	5	62512	0	KED
|	**Ni**	**62**	**51.122**	ug/L	2.321	4	1	10124	3	KED
|	**Cu**	**63**	**51.230**	ug/L	0.933	1	26	178295	0	KED
|	**Cu**	**65**	**51.848**	ug/L	0.579	1	10	91762	0	KED
|	**Zn**	**66**	**51.952**	ug/L	0.848	1	14	23573	2	KED
|	**Zn**	**67**	**50.794**	ug/L	1.368	2	3	3839	2	KED
|	**As**	**75**	**49.815**	ug/L	0.677	1	4	12607	0	KED
⌊	**Se**	**78**	**47.944**	ug/L	0.240	0	13	1127	1	KED
	Y	**89**		ug/L			193494	201657	1	Standard
	Kr	**83**		ug/L			46	48	17	Standard
⌈>	**In-1**	**115**		ug/L			5439	5711	3	KED
|	**Mo**	**98**	**48.793**	ug/L	1.622	3	4	62242	1	KED
|	**Cd**	**111**	**48.758**	ug/L	1.777	3	4	13030	0	KED
⌊	**Cd**	**114**	**49.184**	ug/L	1.431	2	2	33342	0	KED
⌈>	**Tb**	**159**		ug/L			674075	690740	1	Standard
⌊	**Pb**	**208**	**54.232**	ug/L	1.032	1	135	3096658	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:53:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	27173	1	Standard
	Cl	**37**		ug/L			6475826	6477805	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	353072	3	Standard
|	**Cr**	**52**	**0.015**	ug/L	0.029	189	14165	14260	0	Standard
|	**Cr**	**53**	**-0.000**	ug/L	0.009	16090	288	285	3	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.005	341	716	741	14	Standard
⌈>	**Ge**	**72**		ug/L			24857	24896	0	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.002	15320	5	5	33	KED
|	**Ni**	**62**	**0.006**	ug/L	0.011	172	1	3	69	KED
|	**Cu**	**63**	**0.011**	ug/L	0.001	11	26	65	7	KED
|	**Cu**	**65**	**0.010**	ug/L	0.001	6	10	29	3	KED
|	**Zn**	**66**	**0.010**	ug/L	0.013	130	14	19	30	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.025	99	3	1	100	KED
|	**As**	**75**	**-0.004**	ug/L	0.002	50	4	3	17	KED
⌊	**Se**	**78**	**0.014**	ug/L	0.105	768	13	14	17	KED
	Y	**89**		ug/L			193494	191637	1	Standard
	Kr	**83**		ug/L			46	60	50	Standard
⌈>	**In-1**	**115**		ug/L			5439	5688	2	KED
|	**Mo**	**98**	**0.002**	ug/L	0.004	191	4	7	63	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.003	30	4	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	185	2	3	35	KED
⌈>	**Tb**	**159**		ug/L			674075	665098	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.003	157	135	238	69	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0618-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 04:58:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	41219	3	Standard
	Cl	**37**		ug/L			6475826	6491080	3	Standard
>	**Sc**	**45**		ug/L			356827	366468	1	Standard
	Cr	**52**	**0.403**	ug/L	0.035	8	14165	21469	4	Standard
	Cr	**53**	**0.393**	ug/L	0.028	7	288	1090	5	Standard
	Mn	**55**	**0.114**	ug/L	0.002	1	716	3595	0	Standard
>	**Ge**	**72**		ug/L			24857	24565	1	KED
	Ni	**60**	**0.015**	ug/L	0.002	10	5	24	9	KED
	Ni	**62**	**0.010**	ug/L	0.009	97	1	3	50	KED
	Cu	**63**	**0.054**	ug/L	0.005	8	26	214	8	KED
	Cu	**65**	**0.055**	ug/L	0.007	12	10	109	10	KED
	Zn	**66**	**0.658**	ug/L	0.056	8	14	314	9	KED
	Zn	**67**	**0.703**	ug/L	0.097	13	3	57	12	KED
	As	**75**	**-0.001**	ug/L	0.004	394	4	3	24	KED
	Se	**78**	**-0.053**	ug/L	0.091	171	13	12	17	KED
	Y	**89**		ug/L			193494	195600	1	Standard
	Kr	**83**		ug/L			46	41	23	Standard
>	**In-1**	**115**		ug/L			5439	5614	0	KED
	Mo	**98**	**0.008**	ug/L	0.004	43	4	15	29	KED
	Cd	**111**	**-0.009**	ug/L	0.004	47	4	2	43	KED
	Cd	**114**	**0.006**	ug/L	0.005	72	2	6	45	KED
>	**Tb**	**159**		ug/L			674075	689019	0	Standard
	Pb	**208**	**0.009**	ug/L	0.001	12	135	627	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0618-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:02:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	40933	0	Standard
	Cl	**37**		ug/L			6475826	6435646	1	Standard
⌈>	**Sc**	**45**		ug/L			356827	369652	2	Standard
|	**Cr**	**52**	**24.106**	ug/L	0.254	1	14165	431577	2	Standard
|	**Cr**	**53**	**23.487**	ug/L	0.290	1	288	48170	1	Standard
⌊	**Mn**	**55**	**24.802**	ug/L	0.634	2	716	627526	0	Standard
⌈>	**Ge**	**72**		ug/L			24857	24907	1	KED
|	**Ni**	**60**	**25.913**	ug/L	0.253	0	5	32511	0	KED
|	**Ni**	**62**	**26.303**	ug/L	0.649	2	1	5320	3	KED
|	**Cu**	**63**	**26.670**	ug/L	0.695	2	26	94755	1	KED
|	**Cu**	**65**	**27.170**	ug/L	0.407	1	10	49096	2	KED
|	**Zn**	**66**	**82.474**	ug/L	1.871	2	14	38183	1	KED
|	**Zn**	**67**	**77.143**	ug/L	1.164	1	3	5951	1	KED
|	**As**	**75**	**24.435**	ug/L	0.165	0	4	6315	0	KED
⌊	**Se**	**78**	**71.022**	ug/L	0.273	0	13	1698	1	KED
	Y	**89**		ug/L			193494	194569	2	Standard
	Kr	**83**		ug/L			46	64	12	Standard
⌈>	**In-1**	**115**		ug/L			5439	5714	2	KED
|	**Mo**	**98**	**0.022**	ug/L	0.001	2	4	33	2	KED
|	**Cd**	**111**	**25.169**	ug/L	0.281	1	4	6735	1	KED
⌊	**Cd**	**114**	**25.991**	ug/L	0.816	3	2	17630	0	KED
⌈>	**Tb**	**159**		ug/L			674075	682071	0	Standard
⌊	**Pb**	**208**	**29.588**	ug/L	0.450	1	135	1668531	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0249-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:07:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	50511	3	Standard
	Cl	**37**		ug/L			6475826	11441267	5	Standard
⌈>	**Sc**	**45**		ug/L			356827	374207	1	Standard
|	**Cr**	**52**	**5.046**	ug/L	0.122	2	14165	103208	1	Standard
|	**Cr**	**53**	**18.626**	ug/L	0.592	3	288	38742	3	Standard
⌊	**Mn**	**55**	**60.172**	ug/L	1.371	2	716	1540687	2	Standard
⌈>	**Ge**	**72**		ug/L			24857	23416	0	KED
|	**Ni**	**60**	**5.133**	ug/L	0.151	2	5	6059	2	KED
|	**Ni**	**62**	**5.091**	ug/L	0.129	2	1	969	2	KED
|	**Cu**	**63**	**6.731**	ug/L	0.081	1	26	22504	0	KED
|	**Cu**	**65**	**6.825**	ug/L	0.181	2	10	11600	2	KED
|	**Zn**	**66**	**15.990**	ug/L	0.293	1	14	6972	2	KED
|	**Zn**	**67**	**16.866**	ug/L	0.290	1	3	1226	1	KED
|	**As**	**75**	**0.287**	ug/L	0.036	12	4	73	11	KED
⌊	**Se**	**78**	**0.200**	ug/L	0.115	57	13	17	14	KED
	Y	**89**		ug/L			193494	196198	2	Standard
	Kr	**83**		ug/L			46	50	14	Standard
⌈>	**In-1**	**115**		ug/L			5439	5428	4	KED
|	**Mo**	**98**	**2.213**	ug/L	0.087	3	4	2687	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.006	35	4	9	21	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.016	61	2	18	52	KED
⌈>	**Tb**	**159**		ug/L			674075	663843	0	Standard
⌊	**Pb**	**208**	**0.833**	ug/L	0.011	1	135	45828	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0249-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:12:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	50516	2	Standard
	Cl	**37**		ug/L			6475826	13949450	4	Standard
⌈>	**Sc**	**45**		ug/L			356827	380041	2	Standard
|	**Cr**	**52**	**9.980**	ug/L	0.239	2	14165	192532	2	Standard
|	**Cr**	**53**	**25.391**	ug/L	0.567	2	288	53507	0	Standard
⌊	**Mn**	**55**	**18.951**	ug/L	0.321	1	716	493235	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	22652	1	KED
|	**Ni**	**60**	**2.677**	ug/L	0.088	3	5	3058	2	KED
|	**Ni**	**62**	**2.668**	ug/L	0.132	4	1	492	3	KED
|	**Cu**	**63**	**8.798**	ug/L	0.261	2	26	28440	1	KED
|	**Cu**	**65**	**8.975**	ug/L	0.181	2	10	14753	1	KED
|	**Zn**	**66**	**56.199**	ug/L	0.564	1	14	23670	1	KED
|	**Zn**	**67**	**56.282**	ug/L	0.759	1	3	3949	1	KED
|	**As**	**75**	**1.198**	ug/L	0.069	5	4	285	4	KED
⌊	**Se**	**78**	**0.101**	ug/L	0.069	68	13	14	10	KED
	Y	**89**		ug/L			193494	191407	2	Standard
	Kr	**83**		ug/L			46	42	24	Standard
⌈>	**In-1**	**115**		ug/L			5439	5301	2	KED
|	**Mo**	**98**	**2.288**	ug/L	0.165	7	4	2713	5	KED
|	**Cd**	**111**	**0.135**	ug/L	0.015	11	4	38	10	KED
⌊	**Cd**	**114**	**0.138**	ug/L	0.030	21	2	89	23	KED
⌈>	**Tb**	**159**		ug/L			674075	650383	1	Standard
⌊	**Pb**	**208**	**0.603**	ug/L	0.009	1	135	32567	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0618-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:16:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	53866	0	Standard
	Cl	**37**		ug/L			6475826	14565265	4	Standard
>	**Sc**	**45**		ug/L			356827	395663	0	Standard
	Cr	**52**	**10.116**	ug/L	0.137	1	14165	203005	1	Standard
	Cr	**53**	**24.367**	ug/L	0.526	2	288	53492	2	Standard
	Mn	**55**	**19.294**	ug/L	0.304	1	716	522916	1	Standard
>	**Ge**	**72**		ug/L			24857	22982	1	KED
	Ni	**60**	**2.686**	ug/L	0.056	2	5	3113	1	KED
	Ni	**62**	**3.020**	ug/L	0.184	6	1	565	5	KED
	Cu	**63**	**9.131**	ug/L	0.136	1	26	29954	1	KED
	Cu	**65**	**9.246**	ug/L	0.308	3	10	15417	2	KED
	Zn	**66**	**57.024**	ug/L	0.824	1	14	24366	0	KED
	Zn	**67**	**57.773**	ug/L	0.129	0	3	4113	1	KED
	As	**75**	**1.252**	ug/L	0.065	5	4	302	5	KED
	Se	**78**	**-0.032**	ug/L	0.149	470	13	12	26	KED
	Y	**89**		ug/L			193494	201884	1	Standard
	Kr	**83**		ug/L			46	54	23	Standard
>	**In-1**	**115**		ug/L			5439	5315	0	KED
	Mo	**98**	**2.435**	ug/L	0.080	3	4	2897	4	KED
	Cd	**111**	**0.160**	ug/L	0.009	5	4	44	4	KED
	Cd	**114**	**0.146**	ug/L	0.008	5	2	94	6	KED
>	**Tb**	**159**		ug/L			674075	668032	1	Standard
	Pb	**208**	**0.609**	ug/L	0.014	2	135	33780	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0618-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:21:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	52139	4	Standard
	Cl	**37**		ug/L			6475826	14425763	2	Standard
>	**Sc**	**45**		ug/L			356827	398789	1	Standard
	Cr	**52**	**32.594**	ug/L	0.619	1	14165	624004	1	Standard
	Cr	**53**	**45.791**	ug/L	0.909	1	288	101027	2	Standard
	Mn	**55**	**41.000**	ug/L	0.700	1	716	1118994	1	Standard
>	**Ge**	**72**		ug/L			24857	23496	3	KED
	Ni	**60**	**28.398**	ug/L	0.892	3	5	33588	0	KED
	Ni	**62**	**28.930**	ug/L	0.833	2	1	5516	0	KED
	Cu	**63**	**35.227**	ug/L	0.398	1	26	118052	2	KED
	Cu	**65**	**35.343**	ug/L	1.157	3	10	60205	2	KED
	Zn	**66**	**131.840**	ug/L	3.708	2	14	57548	1	KED
	Zn	**67**	**127.025**	ug/L	3.780	2	3	9236	0	KED
	As	**75**	**26.863**	ug/L	0.982	3	4	6543	0	KED
	Se	**78**	**73.308**	ug/L	1.507	2	13	1652	2	KED
	Y	**89**		ug/L			193494	199546	1	Standard
	Kr	**83**		ug/L			46	73	14	Standard
>	**In-1**	**115**		ug/L			5439	5284	1	KED
	Mo	**98**	**2.389**	ug/L	0.037	1	4	2825	1	KED
	Cd	**111**	**25.106**	ug/L	0.312	1	4	6214	1	KED
	Cd	**114**	**25.074**	ug/L	0.262	1	2	15735	0	KED
>	**Tb**	**159**		ug/L			674075	660092	0	Standard
	Pb	**208**	**27.521**	ug/L	0.119	0	135	1502105	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:26:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	29401	0	Standard
	Cl	**37**		ug/L			6475826	7038094	2	Standard
⌈>	**Sc**	**45**		ug/L			356827	372504	1	Standard
|	**Cr**	**52**	**0.034**	ug/L	0.018	52	14165	15390	3	Standard
|	**Cr**	**53**	**1.066**	ug/L	0.025	2	288	2491	2	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.003	2381	716	744	12	Standard
⌈>	**Ge**	**72**		ug/L			24857	25652	2	KED
|	**Ni**	**60**	**0.006**	ug/L	0.008	143	5	13	79	KED
|	**Ni**	**62**	**0.018**	ug/L	0.019	103	1	5	66	KED
|	**Cu**	**63**	**0.013**	ug/L	0.007	57	26	74	35	KED
|	**Cu**	**65**	**0.019**	ug/L	0.012	59	10	46	44	KED
|	**Zn**	**66**	**0.048**	ug/L	0.050	104	14	38	62	KED
|	**Zn**	**67**	**0.055**	ug/L	0.119	218	3	8	113	KED
|	**As**	**75**	**-0.002**	ug/L	0.004	237	4	3	24	KED
⌊	**Se**	**78**	**-0.016**	ug/L	0.048	291	13	13	8	KED
	Y	**89**		ug/L			193494	205096	0	Standard
	Kr	**83**		ug/L			46	45	4	Standard
⌈>	**In-1**	**115**		ug/L			5439	5591	3	KED
|	**Mo**	**98**	**-0.004**	ug/L	0.001	18	4	0	139	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.002	21	4	2	24	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.007	78	2	8	53	KED
⌈>	**Tb**	**159**		ug/L			674075	669165	0	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	11	135	485	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:31:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	34688	1	Standard
	Cl	**37**		ug/L			6475826	6465014	4	Standard
⎡>	**Sc**	**45**		ug/L			356827	376426	1	Standard
⎢	**Cr**	**52**	**0.004**	ug/L	0.011	249	14165	15019	0	Standard
⎢	**Cr**	**53**	**0.247**	ug/L	0.006	2	288	817	3	Standard
⎣	**Mn**	**55**	**51.962**	ug/L	0.247	0	716	1338481	1	Standard
⎡>	**Ge**	**72**		ug/L			24857	23098	1	KED
⎢	**Ni**	**60**	**1.146**	ug/L	0.038	3	5	1339	4	KED
⎢	**Ni**	**62**	**1.023**	ug/L	0.098	9	1	193	10	KED
⎢	**Cu**	**63**	**0.097**	ug/L	0.012	12	26	345	10	KED
⎢	**Cu**	**65**	**0.098**	ug/L	0.022	22	10	173	20	KED
⎢	**Zn**	**66**	**1.308**	ug/L	0.128	9	14	575	9	KED
⎢	**Zn**	**67**	**1.950**	ug/L	0.198	10	3	142	8	KED
⎢	**As**	**75**	**0.083**	ug/L	0.022	26	4	23	23	KED
⎣	**Se**	**78**	**-0.073**	ug/L	0.137	189	13	11	28	KED
	Y	**89**		ug/L			193494	177474	1	Standard
	Kr	**83**		ug/L			46	45	7	Standard
⎡>	**In-1**	**115**		ug/L			5439	5131	3	KED
⎢	**Mo**	**98**	**10.219**	ug/L	0.181	1	4	11719	1	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.011	177	4	6	45	KED
⎣	**Cd**	**114**	**0.027**	ug/L	0.011	42	2	18	37	KED
⎡>	**Tb**	**159**		ug/L			674075	699328	0	Standard
⎣	**Pb**	**208**	**0.007**	ug/L	0.001	9	135	570	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-08
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:36:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	33540	0	Standard
	Cl	**37**		ug/L			6475826	6245296	4	Standard
⌈>	**Sc**	**45**		ug/L			356827	351984	3	Standard
|	**Cr**	**52**	**0.032**	ug/L	0.006	17	14165	14500	3	Standard
|	**Cr**	**53**	**0.196**	ug/L	0.008	4	288	665	4	Standard
⌊	**Mn**	**55**	**41.433**	ug/L	0.453	1	716	997948	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	22684	0	KED
|	**Ni**	**60**	**1.320**	ug/L	0.059	4	5	1513	4	KED
|	**Ni**	**62**	**1.412**	ug/L	0.255	18	1	261	17	KED
|	**Cu**	**63**	**0.261**	ug/L	0.005	1	26	867	1	KED
|	**Cu**	**65**	**0.247**	ug/L	0.012	4	10	415	4	KED
|	**Zn**	**66**	**5.110**	ug/L	0.103	2	14	2167	1	KED
|	**Zn**	**67**	**5.494**	ug/L	0.358	6	3	389	6	KED
|	**As**	**75**	**0.247**	ug/L	0.025	10	4	61	8	KED
⌊	**Se**	**78**	**0.032**	ug/L	0.101	312	13	13	17	KED
	Y	**89**		ug/L			193494	167030	1	Standard
	Kr	**83**		ug/L			46	50	32	Standard
⌈>	**In-1**	**115**		ug/L			5439	5102	1	KED
|	**Mo**	**98**	**17.292**	ug/L	0.510	2	4	19721	2	KED
|	**Cd**	**111**	**0.012**	ug/L	0.006	51	4	7	19	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.009	31	2	18	26	KED
⌈>	**Tb**	**159**		ug/L			674075	698560	0	Standard
⌊	**Pb**	**208**	**0.033**	ug/L	0.000	0	135	2034	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:40:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	26449	2	Standard
	Cl	**37**		ug/L			6475826	6320204	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	340972	1	Standard
|	**Cr**	**52**	**-0.033**	ug/L	0.019	57	14165	13009	3	Standard
|	**Cr**	**53**	**0.122**	ug/L	0.018	15	288	505	7	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	16	716	586	2	Standard
⌈>	**Ge**	**72**		ug/L			24857	23145	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.002	60	5	8	24	KED
|	**Ni**	**62**	**0.001**	ug/L	0.010	1488	1	1	100	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	80	26	35	24	KED
|	**Cu**	**65**	**0.010**	ug/L	0.003	29	10	26	18	KED
|	**Zn**	**66**	**0.019**	ug/L	0.010	53	14	21	18	KED
|	**Zn**	**67**	**-0.023**	ug/L	0.045	195	3	1	173	KED
|	**As**	**75**	**0.004**	ug/L	0.003	64	4	4	11	KED
⌊	**Se**	**78**	**-0.124**	ug/L	0.142	113	13	10	30	KED
	Y	**89**		ug/L			193494	166678	0	Standard
	Kr	**83**		ug/L			46	40	26	Standard
⌈>	**In-1**	**115**		ug/L			5439	5163	0	KED
|	**Mo**	**98**	**-0.002**	ug/L	0.002	104	4	2	93	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.002	24	4	2	24	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	3	2	3	0	KED
⌈>	**Tb**	**159**		ug/L			674075	688230	2	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	73	135	163	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:45:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	25455	0	Standard
	Cl	**37**		ug/L			6475826	6459287	2	Standard
⌈>	**Sc**	**45**		ug/L			356827	345039	2	Standard
|	**Cr**	**52**	**46.031**	ug/L	1.854	4	14165	756627	3	Standard
|	**Cr**	**53**	**45.959**	ug/L	1.011	2	288	87717	1	Standard
⌊	**Mn**	**55**	**47.519**	ug/L	1.490	3	716	1121811	2	Standard
⌈>	**Ge**	**72**		ug/L			24857	23187	0	KED
|	**Ni**	**60**	**51.355**	ug/L	0.240	0	5	59982	0	KED
|	**Ni**	**62**	**52.208**	ug/L	0.399	0	1	9829	0	KED
|	**Cu**	**63**	**51.990**	ug/L	0.970	1	26	171972	1	KED
|	**Cu**	**65**	**53.427**	ug/L	0.745	1	10	89860	1	KED
|	**Zn**	**66**	**52.117**	ug/L	1.496	2	14	22470	2	KED
|	**Zn**	**67**	**51.254**	ug/L	0.704	1	3	3682	1	KED
|	**As**	**75**	**49.196**	ug/L	0.417	0	4	11832	0	KED
⌊	**Se**	**78**	**47.171**	ug/L	0.378	0	13	1054	0	KED
	Y	**89**		ug/L			193494	179129	0	Standard
	Kr	**83**		ug/L			46	39	12	Standard
⌈>	**In-1**	**115**		ug/L			5439	5098	2	KED
|	**Mo**	**98**	**51.488**	ug/L	0.935	1	4	58657	0	KED
|	**Cd**	**111**	**52.670**	ug/L	0.224	0	4	12574	1	KED
⌊	**Cd**	**114**	**52.775**	ug/L	0.457	0	2	31956	1	KED
⌈>	**Tb**	**159**		ug/L			674075	715422	0	Standard
⌊	**Pb**	**208**	**54.931**	ug/L	0.558	1	135	3249166	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:52:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	25977	1	Standard
	Cl	**37**		ug/L			6475826	6280562	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	346117	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.025	152	14165	13470	3	Standard
|	**Cr**	**53**	**0.114**	ug/L	0.018	16	288	497	7	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.002	82	716	634	5	Standard
⌈>	**Ge**	**72**		ug/L			24857	23561	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.004	122	5	9	52	KED
|	**Ni**	**62**	**0.004**	ug/L	0.011	303	1	2	86	KED
|	**Cu**	**63**	**0.011**	ug/L	0.002	21	26	62	12	KED
|	**Cu**	**65**	**0.016**	ug/L	0.005	33	10	36	23	KED
|	**Zn**	**66**	**0.000**	ug/L	0.013	6737	14	13	41	KED
|	**Zn**	**67**	**0.038**	ug/L	0.041	108	3	6	45	KED
|	**As**	**75**	**-0.003**	ug/L	0.005	179	4	3	37	KED
⌊	**Se**	**78**	**0.068**	ug/L	0.031	45	13	14	5	KED
	Y	**89**		ug/L			193494	175464	1	Standard
	Kr	**83**		ug/L			46	43	28	Standard
⌈>	**In-1**	**115**		ug/L			5439	5487	1	KED
|	**Mo**	**98**	**0.002**	ug/L	0.003	154	4	7	51	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.004	87	4	3	31	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	78	2	1	94	KED
⌈>	**Tb**	**159**		ug/L			674075	692001	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	42	135	179	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0146-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 05:57:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27319	49057	0	Standard
Cl	37		ug/L			6475826	6522820	3	Standard
Sc	45		ug/L			356827	473696	2	Standard
Cr	52	0.331	ug/L	0.018	5	14165	26130	1	Standard
Cr	53	1.740	ug/L	0.045	2	288	4926	0	Standard
Mn	55	375.376	ug/L	12.307	3	716	12155848	1	Standard
Ge	72		ug/L			24857	22701	0	KED
Ni	60	25.931	ug/L	0.355	1	5	29654	1	KED
Ni	62	25.902	ug/L	0.466	1	1	4775	2	KED
Cu	63	90.583	ug/L	0.820	0	26	293329	1	KED
Cu	65	90.668	ug/L	1.322	1	10	149297	1	KED
Zn	66	1.956	ug/L	0.045	2	14	838	2	KED
Zn	67	2.264	ug/L	0.296	13	3	162	12	KED
As	75	0.744	ug/L	0.075	10	4	179	9	KED
Se	78	0.227	ug/L	0.175	77	13	17	21	KED
Y	89		ug/L			193494	179262	2	Standard
Kr	83		ug/L			46	100	21	Standard
In-1	115		ug/L			5439	5047	2	KED
Mo	98	1.467	ug/L	0.021	1	4	1659	3	KED
Cd	111	30.100	ug/L	0.753	2	4	7113	0	KED
Cd	114	30.100	ug/L	0.647	2	2	18039	0	KED
Tb	159		ug/L			674075	693444	0	Standard
Pb	208	0.009	ug/L	0.000	2	135	646	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0146-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:02:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27319	50916	3	Standard
Cl	37		ug/L			6475826	6504250	2	Standard
> Sc	45		ug/L			356827	457937	2	Standard
Cr	52	0.293	ug/L	0.020	6	14165	24460	2	Standard
Cr	53	1.724	ug/L	0.042	2	288	4723	1	Standard
Mn	55	370.020	ug/L	12.090	3	716	11585406	2	Standard
> Ge	72		ug/L			24857	22801	0	KED
Ni	60	25.738	ug/L	0.492	1	5	29563	2	KED
Ni	62	26.623	ug/L	0.756	2	1	4929	2	KED
Cu	63	85.710	ug/L	0.865	1	26	278762	0	KED
Cu	65	87.334	ug/L	0.394	0	10	144439	0	KED
Zn	66	2.305	ug/L	0.084	3	14	989	3	KED
Zn	67	2.666	ug/L	0.197	7	3	191	8	KED
As	75	0.664	ug/L	0.067	10	4	160	9	KED
Se	78	0.164	ug/L	0.173	105	13	16	23	KED
Y	89		ug/L			193494	173239	1	Standard
Kr	83		ug/L			46	198	51	Standard
> In-1	115		ug/L			5439	5100	2	KED
Mo	98	1.413	ug/L	0.038	2	4	1614	2	KED
Cd	111	28.657	ug/L	1.164	4	4	6841	1	KED
Cd	114	29.279	ug/L	0.293	1	2	17735	1	KED
> Tb	159		ug/L			674075	687429	3	Standard
Pb	208	0.014	ug/L	0.007	49	135	933	38	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:07:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	26847	1	Standard
	Cl	**37**		ug/L			6475826	6053361	3	Standard
⎡>	**Sc**	**45**		ug/L			356827	333168	4	Standard
⎢	**Cr**	**52**	**0.008**	ug/L	0.005	62	14165	13351	4	Standard
⎢	**Cr**	**53**	**0.068**	ug/L	0.013	18	288	393	3	Standard
⎣	**Mn**	**55**	**0.003**	ug/L	0.001	39	716	743	3	Standard
⎡>	**Ge**	**72**		ug/L			24857	24015	1	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.004	456	5	4	107	KED
⎢	**Ni**	**62**	**0.004**	ug/L	0.015	408	1	2	114	KED
⎢	**Cu**	**63**	**0.010**	ug/L	0.001	5	26	60	4	KED
⎢	**Cu**	**65**	**0.009**	ug/L	0.003	30	10	25	18	KED
⎢	**Zn**	**66**	**0.014**	ug/L	0.009	63	14	20	19	KED
⎢	**Zn**	**67**	**-0.015**	ug/L	0.014	91	3	2	43	KED
⎢	**As**	**75**	**-0.006**	ug/L	0.007	125	4	2	66	KED
⎣	**Se**	**78**	**-0.081**	ug/L	0.061	75	13	11	12	KED
	Y	**89**		ug/L			193494	171123	4	Standard
	Kr	**83**		ug/L			46	41	4	Standard
⎡>	**In-1**	**115**		ug/L			5439	5411	4	KED
⎢	**Mo**	**98**	**-0.002**	ug/L	0.002	84	4	2	109	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.006	44	4	1	114	KED
⎣	**Cd**	**114**	**0.009**	ug/L	0.004	49	2	8	36	KED
⎡>	**Tb**	**159**		ug/L			674075	685913	2	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	170	135	149	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:11:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	37369	2	Standard
	Cl	**37**		ug/L			6475826	5793359	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	385010	0	Standard
|	**Cr**	**52**	**0.504**	ug/L	0.026	5	14165	24371	2	Standard
|	**Cr**	**53**	**0.792**	ug/L	0.038	4	288	1992	4	Standard
⌊	**Mn**	**55**	**0.141**	ug/L	0.003	2	716	4495	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	20808	1	KED
|	**Ni**	**60**	**1.252**	ug/L	0.032	2	5	1316	1	KED
|	**Ni**	**62**	**1.196**	ug/L	0.118	9	1	203	10	KED
|	**Cu**	**63**	**4.744**	ug/L	0.121	2	26	14100	2	KED
|	**Cu**	**65**	**4.842**	ug/L	0.214	4	10	7314	3	KED
|	**Zn**	**66**	**13.652**	ug/L	0.172	1	14	5291	0	KED
|	**Zn**	**67**	**15.796**	ug/L	0.577	3	3	1020	2	KED
|	**As**	**75**	**1.080**	ug/L	0.018	1	4	236	1	KED
⌊	**Se**	**78**	**3.081**	ug/L	0.425	13	13	72	11	KED
	Y	**89**		ug/L			193494	152141	1	Standard
	Kr	**83**		ug/L			46	42	6	Standard
⌈>	**In-1**	**115**		ug/L			5439	4768	1	KED
|	**Mo**	**98**	**2.486**	ug/L	0.175	7	4	2651	5	KED
|	**Cd**	**111**	**0.074**	ug/L	0.014	18	4	20	16	KED
⌊	**Cd**	**114**	**0.078**	ug/L	0.010	12	2	46	10	KED
⌈>	**Tb**	**159**		ug/L			674075	684616	0	Standard
⌊	**Pb**	**208**	**1.083**	ug/L	0.004	0	135	61414	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:16:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	35445	3	Standard
	Cl	**37**		ug/L			6475826	5729210	4	Standard
⌈>	**Sc**	**45**		ug/L			356827	363401	2	Standard
|	**Cr**	**52**	**0.596**	ug/L	0.029	4	14165	24548	1	Standard
|	**Cr**	**53**	**0.815**	ug/L	0.013	1	288	1927	1	Standard
⌊	**Mn**	**55**	**4.960**	ug/L	0.075	1	716	123973	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	21084	2	KED
|	**Ni**	**60**	**1.159**	ug/L	0.092	7	5	1234	5	KED
|	**Ni**	**62**	**1.166**	ug/L	0.042	3	1	201	4	KED
|	**Cu**	**63**	**1.830**	ug/L	0.049	2	26	5526	4	KED
|	**Cu**	**65**	**1.895**	ug/L	0.041	2	10	2908	4	KED
|	**Zn**	**66**	**2.890**	ug/L	0.189	6	14	1143	4	KED
|	**Zn**	**67**	**5.060**	ug/L	0.230	4	3	333	3	KED
|	**As**	**75**	**1.541**	ug/L	0.055	3	4	340	5	KED
⌊	**Se**	**78**	**33.722**	ug/L	1.734	5	13	688	4	KED
	Y	**89**		ug/L			193494	147686	1	Standard
	Kr	**83**		ug/L			46	48	21	Standard
⌈>	**In-1**	**115**		ug/L			5439	4730	0	KED
|	**Mo**	**98**	**6.762**	ug/L	0.052	0	4	7151	0	KED
|	**Cd**	**111**	**0.036**	ug/L	0.010	29	4	12	19	KED
⌊	**Cd**	**114**	**0.056**	ug/L	0.016	27	2	33	25	KED
⌈>	**Tb**	**159**		ug/L			674075	705901	1	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.001	9	135	870	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:21:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	34910	4	Standard
	Cl	**37**		ug/L			6475826	5564979	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	357161	1	Standard
|	**Cr**	**52**	**0.622**	ug/L	0.030	4	14165	24585	3	Standard
|	**Cr**	**53**	**0.805**	ug/L	0.023	2	288	1875	1	Standard
⌊	**Mn**	**55**	**5.045**	ug/L	0.085	1	716	123976	2	Standard
⌈>	**Ge**	**72**		ug/L			24857	20708	1	KED
|	**Ni**	**60**	**1.156**	ug/L	0.027	2	5	1210	2	KED
|	**Ni**	**62**	**1.172**	ug/L	0.143	12	1	198	12	KED
|	**Cu**	**63**	**1.584**	ug/L	0.024	1	26	4699	1	KED
|	**Cu**	**65**	**1.642**	ug/L	0.039	2	10	2475	0	KED
|	**Zn**	**66**	**3.097**	ug/L	0.129	4	14	1203	3	KED
|	**Zn**	**67**	**5.401**	ug/L	0.393	7	3	349	6	KED
|	**As**	**75**	**1.497**	ug/L	0.088	5	4	324	4	KED
⌊	**Se**	**78**	**33.808**	ug/L	1.093	3	13	677	1	KED
	Y	**89**		ug/L			193494	143368	1	Standard
	Kr	**83**		ug/L			46	46	18	Standard
⌈>	**In-1**	**115**		ug/L			5439	4637	1	KED
|	**Mo**	**98**	**6.930**	ug/L	0.095	1	4	7186	2	KED
|	**Cd**	**111**	**0.043**	ug/L	0.008	19	4	13	14	KED
⌊	**Cd**	**114**	**0.049**	ug/L	0.034	69	2	29	64	KED
⌈>	**Tb**	**159**		ug/L			674075	703522	0	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.001	4	135	1145	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:25:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	35019	3	Standard
	Cl	**37**		ug/L			6475826	5488118	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	351851	2	Standard
|	**Cr**	**52**	**0.631**	ug/L	0.045	7	14165	24354	2	Standard
|	**Cr**	**53**	**0.820**	ug/L	0.016	1	288	1875	2	Standard
⌊	**Mn**	**55**	**4.899**	ug/L	0.061	1	716	118569	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	20172	1	KED
|	**Ni**	**60**	**1.136**	ug/L	0.014	1	5	1158	1	KED
|	**Ni**	**62**	**1.072**	ug/L	0.081	7	1	177	8	KED
|	**Cu**	**63**	**1.563**	ug/L	0.040	2	26	4517	2	KED
|	**Cu**	**65**	**1.651**	ug/L	0.053	3	10	2423	2	KED
|	**Zn**	**66**	**3.073**	ug/L	0.046	1	14	1163	0	KED
|	**Zn**	**67**	**5.309**	ug/L	0.326	6	3	334	6	KED
|	**As**	**75**	**1.489**	ug/L	0.099	6	4	314	5	KED
⌊	**Se**	**78**	**33.626**	ug/L	0.600	1	13	657	2	KED
	Y	**89**		ug/L			193494	139940	3	Standard
	Kr	**83**		ug/L			46	48	8	Standard
⌈>	**In-1**	**115**		ug/L			5439	4435	2	KED
|	**Mo**	**98**	**7.020**	ug/L	0.177	2	4	6960	1	KED
|	**Cd**	**111**	**0.032**	ug/L	0.001	4	4	10	0	KED
⌊	**Cd**	**114**	**0.047**	ug/L	0.008	17	2	26	18	KED
⌈>	**Tb**	**159**		ug/L			674075	689968	0	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.008	39	135	1237	34	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:30:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	35435	1	Standard
	Cl	**37**		ug/L			6475826	5456024	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	356465	3	Standard
|	**Cr**	**52**	**20.078**	ug/L	0.349	1	14165	348921	2	Standard
|	**Cr**	**53**	**20.043**	ug/L	0.533	2	288	39678	3	Standard
⌊	**Mn**	**55**	**25.288**	ug/L	0.875	3	716	616991	3	Standard
⌈>	**Ge**	**72**		ug/L			24857	19954	0	KED
|	**Ni**	**60**	**27.237**	ug/L	0.560	2	5	27378	1	KED
|	**Ni**	**62**	**27.430**	ug/L	0.567	2	1	4445	2	KED
|	**Cu**	**63**	**28.073**	ug/L	0.076	0	26	79921	0	KED
|	**Cu**	**65**	**28.473**	ug/L	0.241	0	10	41219	1	KED
|	**Zn**	**66**	**79.295**	ug/L	0.799	1	14	29416	0	KED
|	**Zn**	**67**	**77.003**	ug/L	0.804	1	3	4759	1	KED
|	**As**	**75**	**27.219**	ug/L	0.089	0	4	5635	0	KED
⌊	**Se**	**78**	**109.168**	ug/L	0.668	0	13	2085	0	KED
	Y	**89**		ug/L			193494	143928	3	Standard
	Kr	**83**		ug/L			46	45	9	Standard
⌈>	**In-1**	**115**		ug/L			5439	4538	2	KED
|	**Mo**	**98**	**6.768**	ug/L	0.178	2	4	6866	1	KED
|	**Cd**	**111**	**25.149**	ug/L	0.825	3	4	5343	0	KED
⌊	**Cd**	**114**	**25.525**	ug/L	0.441	1	2	13755	0	KED
⌈>	**Tb**	**159**		ug/L			674075	710239	3	Standard
⌊	**Pb**	**208**	**28.211**	ug/L	1.057	3	135	1655359	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:35:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	34091	1	Standard
	Cl	**37**		ug/L			6475826	5489992	4	Standard
⌈>	**Sc**	**45**		ug/L			356827	346016	1	Standard
|	**Cr**	**52**	**20.349**	ug/L	0.098	0	14165	343220	2	Standard
|	**Cr**	**53**	**20.066**	ug/L	0.379	1	288	38569	2	Standard
⌊	**Mn**	**55**	**25.468**	ug/L	0.391	1	716	603452	2	Standard
⌈>	**Ge**	**72**		ug/L			24857	18697	12	KED
|	**Ni**	**60**	**29.261**	ug/L	4.091	13	5	27241	1	KED
|	**Ni**	**62**	**29.931**	ug/L	6.182	20	1	4466	6	KED
|	**Cu**	**63**	**29.782**	ug/L	4.431	14	26	78457	1	KED
|	**Cu**	**65**	**30.017**	ug/L	4.051	13	10	40257	0	KED
|	**Zn**	**66**	**84.615**	ug/L	11.096	13	14	29091	0	KED
|	**Zn**	**67**	**82.664**	ug/L	10.352	12	3	4737	1	KED
|	**As**	**75**	**29.164**	ug/L	4.188	14	4	5589	0	KED
⌊	**Se**	**78**	**112.217**	ug/L	17.867	15	13	1981	2	KED
	Y	**89**		ug/L			193494	142017	0	Standard
	Kr	**83**		ug/L			46	41	22	Standard
⌈>	**In-1**	**115**		ug/L			5439	4392	0	KED
|	**Mo**	**98**	**6.666**	ug/L	0.156	2	4	6547	2	KED
|	**Cd**	**111**	**25.641**	ug/L	0.531	2	4	5275	1	KED
⌊	**Cd**	**114**	**25.899**	ug/L	0.233	0	2	13512	1	KED
⌈>	**Tb**	**159**		ug/L			674075	696604	1	Standard
⌊	**Pb**	**208**	**27.845**	ug/L	0.616	2	135	1603583	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:40:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	24681	1	Standard
	Cl	**37**		ug/L			6475826	5858635	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	322457	1	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.013	42	14165	12328	2	Standard
|	**Cr**	**53**	**-0.054**	ug/L	0.007	13	288	164	7	Standard
⌊	**Mn**	**55**	**-0.009**	ug/L	0.001	12	716	456	5	Standard
⌈>	**Ge**	**72**		ug/L			24857	21941	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.003	74	5	8	32	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.006	268	1	1	86	KED
|	**Cu**	**63**	**0.005**	ug/L	0.000	9	26	38	2	KED
|	**Cu**	**65**	**0.008**	ug/L	0.006	74	10	22	43	KED
|	**Zn**	**66**	**0.017**	ug/L	0.020	119	14	19	40	KED
|	**Zn**	**67**	**-0.012**	ug/L	0.033	271	3	2	86	KED
|	**As**	**75**	**-0.005**	ug/L	0.010	206	4	2	83	KED
⌊	**Se**	**78**	**-0.087**	ug/L	0.047	53	13	10	9	KED
	Y	**89**		ug/L			193494	155024	2	Standard
	Kr	**83**		ug/L			46	36	23	Standard
⌈>	**In-1**	**115**		ug/L			5439	4827	2	KED
|	**Mo**	**98**	**-0.000**	ug/L	0.001	434	4	4	31	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	257	4	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	636	2	1	105	KED
⌈>	**Tb**	**159**		ug/L			674075	694279	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	65	135	182	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:44:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	24947	3	Standard
	Cl	**37**		ug/L			6475826	6098993	4	Standard
⌈>	**Sc**	**45**		ug/L			356827	326091	2	Standard
|	**Cr**	**52**	**46.726**	ug/L	0.329	0	14165	725980	2	Standard
|	**Cr**	**53**	**46.251**	ug/L	0.304	0	288	83450	3	Standard
⌊	**Mn**	**55**	**48.926**	ug/L	0.300	0	716	1091743	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	22351	0	KED
|	**Ni**	**60**	**51.682**	ug/L	1.758	3	5	58180	2	KED
|	**Ni**	**62**	**52.749**	ug/L	1.100	2	1	9572	1	KED
|	**Cu**	**63**	**52.307**	ug/L	0.297	0	26	166779	0	KED
|	**Cu**	**65**	**54.189**	ug/L	0.310	0	10	87858	0	KED
|	**Zn**	**66**	**52.414**	ug/L	0.195	0	14	21784	0	KED
|	**Zn**	**67**	**51.624**	ug/L	0.616	1	3	3575	0	KED
|	**As**	**75**	**49.662**	ug/L	0.664	1	4	11514	1	KED
⌊	**Se**	**78**	**47.703**	ug/L	1.207	2	13	1027	2	KED
	Y	**89**		ug/L			193494	162305	1	Standard
	Kr	**83**		ug/L			46	48	19	Standard
⌈>	**In-1**	**115**		ug/L			5439	5059	0	KED
|	**Mo**	**98**	**50.386**	ug/L	0.162	0	4	56973	0	KED
|	**Cd**	**111**	**51.826**	ug/L	0.436	0	4	12277	0	KED
⌊	**Cd**	**114**	**51.350**	ug/L	1.256	2	2	30857	2	KED
⌈>	**Tb**	**159**		ug/L			674075	714147	1	Standard
⌊	**Pb**	**208**	**56.154**	ug/L	0.284	0	135	3315599	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:52:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	25721	1	Standard
	Cl	**37**		ug/L			6475826	6026286	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	326663	0	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.027	193	14165	12752	3	Standard
|	**Cr**	**53**	**-0.036**	ug/L	0.002	6	288	199	2	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.000	6	716	482	2	Standard
⌈>	**Ge**	**72**		ug/L			24857	23423	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.002	56	5	1	100	KED
|	**Ni**	**62**	**-0.003**	ug/L	0.012	419	1	1	173	KED
|	**Cu**	**63**	**0.009**	ug/L	0.002	22	26	55	11	KED
|	**Cu**	**65**	**0.010**	ug/L	0.001	13	10	26	7	KED
|	**Zn**	**66**	**0.007**	ug/L	0.023	348	14	16	59	KED
|	**Zn**	**67**	**-0.041**	ug/L	0.015	36	3	0	173	KED
|	**As**	**75**	**-0.006**	ug/L	0.001	21	4	2	10	KED
⌊	**Se**	**78**	**-0.076**	ug/L	0.037	48	13	11	6	KED
	Y	**89**		ug/L			193494	168474	1	Standard
	Kr	**83**		ug/L			46	39	15	Standard
⌈>	**In-1**	**115**		ug/L			5439	5134	1	KED
|	**Mo**	**98**	**0.004**	ug/L	0.005	146	4	8	68	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.006	49	4	1	91	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.003	76	2	5	43	KED
⌈>	**Tb**	**159**		ug/L			674075	694500	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	51	135	148	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0146-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 06:56:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27319	49815	2	Standard
Cl	37		ug/L			6475826	6191212	3	Standard
Sc	45		ug/L			356827	448343	3	Standard
Cr	52	1.184	ug/L	0.073	6	14165	42613	2	Standard
Cr	53	2.104	ug/L	0.064	3	288	5560	0	Standard
Mn	55	153.208	ug/L	3.112	2	716	4697596	2	Standard
Ge	72		ug/L			24857	22207	1	KED
Ni	60	7.016	ug/L	0.104	1	5	7852	1	KED
Ni	62	7.011	ug/L	0.294	4	1	1265	3	KED
Cu	63	10.800	ug/L	0.173	1	26	34228	0	KED
Cu	65	10.901	ug/L	0.252	2	10	17565	1	KED
Zn	66	0.823	ug/L	0.037	4	14	353	5	KED
Zn	67	1.467	ug/L	0.234	15	3	104	14	KED
As	75	0.522	ug/L	0.044	8	4	124	8	KED
Se	78	0.787	ug/L	0.147	18	13	28	9	KED
Y	89		ug/L			193494	175451	0	Standard
Kr	83		ug/L			46	44	12	Standard
In-1	115		ug/L			5439	5000	3	KED
Mo	98	2.322	ug/L	0.150	6	4	2595	3	KED
Cd	111	8.482	ug/L	0.291	3	4	1988	0	KED
Cd	114	8.573	ug/L	0.319	3	2	5088	0	KED
Tb	159		ug/L			674075	694912	0	Standard
Pb	208	0.016	ug/L	0.001	5	135	1042	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0558-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:01:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27319	51578	5	Standard
Cl	37		ug/L			6475826	6169183	3	Standard
> Sc	45		ug/L			356827	451464	3	Standard
Cr	52	1.169	ug/L	0.029	2	14165	42635	4	Standard
Cr	53	2.111	ug/L	0.065	3	288	5623	5	Standard
Mn	55	155.158	ug/L	0.707	0	716	4791610	2	Standard
> Ge	72		ug/L			24857	22372	0	KED
Ni	60	7.133	ug/L	0.140	1	5	8042	1	KED
Ni	62	7.167	ug/L	0.295	4	1	1303	4	KED
Cu	63	10.611	ug/L	0.133	1	26	33883	1	KED
Cu	65	10.944	ug/L	0.181	1	10	17767	1	KED
Zn	66	0.862	ug/L	0.044	5	14	371	5	KED
Zn	67	1.546	ug/L	0.105	6	3	110	6	KED
As	75	0.475	ug/L	0.029	6	4	113	5	KED
Se	78	0.678	ug/L	0.176	25	13	26	14	KED
Y	89		ug/L			193494	176375	2	Standard
Kr	83		ug/L			46	40	23	Standard
> In-1	115		ug/L			5439	4968	2	KED
Mo	98	2.395	ug/L	0.080	3	4	2662	1	KED
Cd	111	8.803	ug/L	0.390	4	4	2049	1	KED
Cd	114	8.636	ug/L	0.192	2	2	5098	3	KED
> Tb	159		ug/L			674075	700390	0	Standard
Pb	208	0.025	ug/L	0.000	1	135	1560	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0558-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:06:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27319	42861	2	Standard
Cl	37		ug/L			6475826	6231956	3	Standard
Sc	45		ug/L			356827	470300	2	Standard
Cr	52	17.710	ug/L	0.438	2	14165	408376	3	Standard
Cr	53	18.512	ug/L	0.116	0	288	48391	2	Standard
Mn	55	164.393	ug/L	0.825	0	716	5288660	2	Standard
Ge	72		ug/L			24857	22727	0	KED
Ni	60	32.679	ug/L	0.227	0	5	37414	0	KED
Ni	62	32.121	ug/L	0.307	0	1	5928	0	KED
Cu	63	35.548	ug/L	0.526	1	26	115258	1	KED
Cu	65	36.494	ug/L	0.160	0	10	60169	0	KED
Zn	66	77.589	ug/L	1.484	1	14	32784	1	KED
Zn	67	73.328	ug/L	1.202	1	3	5162	1	KED
As	75	25.058	ug/L	0.160	0	4	5909	0	KED
Se	78	72.655	ug/L	0.341	0	13	1584	0	KED
Y	89		ug/L			193494	178304	1	Standard
Kr	83		ug/L			46	76	22	Standard
In-1	115		ug/L			5439	4830	3	KED
Mo	98	30.187	ug/L	0.544	1	4	32582	1	KED
Cd	111	35.199	ug/L	1.597	4	4	7956	2	KED
Cd	114	35.511	ug/L	1.429	4	2	20358	0	KED
Tb	159		ug/L			674075	714062	0	Standard
Pb	208	27.395	ug/L	0.053	0	135	1617452	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0558-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:12:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27319	43948	1	Standard
Cl	37		ug/L			6475826	6239465	4	Standard
> Sc	45		ug/L			356827	470713	2	Standard
Cr	52	17.979	ug/L	0.137	0	14165	414702	2	Standard
Cr	53	18.563	ug/L	0.298	1	288	48565	1	Standard
Mn	55	163.500	ug/L	3.002	1	716	5263573	1	Standard
> Ge	72		ug/L			24857	23116	1	KED
Ni	60	32.870	ug/L	0.868	2	5	38273	2	KED
Ni	62	33.499	ug/L	0.118	0	1	6288	1	KED
Cu	63	36.202	ug/L	0.262	0	26	119388	1	KED
Cu	65	37.223	ug/L	0.265	0	10	62415	0	KED
Zn	66	79.397	ug/L	0.578	0	14	34120	0	KED
Zn	67	77.130	ug/L	2.128	2	3	5522	2	KED
As	75	25.352	ug/L	0.421	1	4	6080	0	KED
Se	78	75.079	ug/L	1.738	2	13	1665	1	KED
Y	89		ug/L			193494	180351	2	Standard
Kr	83		ug/L			46	71	8	Standard
> In-1	115		ug/L			5439	5234	3	KED
Mo	98	29.316	ug/L	1.305	4	4	34264	1	KED
Cd	111	33.612	ug/L	0.963	2	4	8234	0	KED
Cd	114	33.616	ug/L	1.110	3	2	20884	0	KED
> Tb	159		ug/L			674075	712371	2	Standard
Pb	208	27.565	ug/L	0.545	1	135	1623270	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:17:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	28006	3	Standard
	Cl	**37**		ug/L			6475826	6082022	3	Standard
⎡>	**Sc**	**45**		ug/L			356827	343174	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.005	47	14165	13777	1	Standard
⎢	**Cr**	**53**	**-0.027**	ug/L	0.005	16	288	226	4	Standard
⎣	**Mn**	**55**	**0.005**	ug/L	0.002	35	716	796	6	Standard
⎡>	**Ge**	**72**		ug/L			24857	24023	1	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.004	539	5	6	69	KED
⎢	**Ni**	**62**	**0.004**	ug/L	0.011	313	1	2	86	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.003	37	26	55	20	KED
⎢	**Cu**	**65**	**0.010**	ug/L	0.005	46	10	28	29	KED
⎢	**Zn**	**66**	**0.031**	ug/L	0.013	42	14	27	21	KED
⎢	**Zn**	**67**	**-0.015**	ug/L	0.015	99	3	2	43	KED
⎢	**As**	**75**	**-0.006**	ug/L	0.002	35	4	2	21	KED
⎣	**Se**	**78**	**-0.019**	ug/L	0.121	629	13	12	20	KED
	Y	**89**		ug/L			193494	172762	1	Standard
	Kr	**83**		ug/L			46	38	12	Standard
⎡>	**In-1**	**115**		ug/L			5439	5477	2	KED
⎢	**Mo**	**98**	**0.006**	ug/L	0.002	35	4	12	23	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.004	64	4	3	34	KED
⎣	**Cd**	**114**	**0.000**	ug/L	0.002	2049	2	2	45	KED
⎡>	**Tb**	**159**		ug/L			674075	685156	0	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	30	135	199	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0314-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:21:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	30233	0	Standard
	Cl	**37**		ug/L			6475826	6411808	1	Standard
⌈>	**Sc**	**45**		ug/L			356827	357695	0	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.019	584	14165	14254	2	Standard
|	**Cr**	**53**	**0.780**	ug/L	0.015	1	288	1827	1	Standard
⌊	**Mn**	**55**	**2.388**	ug/L	0.042	1	716	59142	2	Standard
⌈>	**Ge**	**72**		ug/L			24857	22433	1	KED
|	**Ni**	**60**	**1.410**	ug/L	0.033	2	5	1598	3	KED
|	**Ni**	**62**	**1.362**	ug/L	0.161	11	1	250	13	KED
|	**Cu**	**63**	**0.025**	ug/L	0.002	9	26	102	8	KED
|	**Cu**	**65**	**0.026**	ug/L	0.006	22	10	52	20	KED
|	**Zn**	**66**	**0.377**	ug/L	0.084	22	14	170	19	KED
|	**Zn**	**67**	**0.920**	ug/L	0.071	7	3	67	5	KED
|	**As**	**75**	**0.001**	ug/L	0.009	1788	4	3	54	KED
⌊	**Se**	**78**	**0.020**	ug/L	0.026	131	13	12	4	KED
	Y	**89**		ug/L			193494	159642	1	Standard
	Kr	**83**		ug/L			46	52	38	Standard
⌈>	**In-1**	**115**		ug/L			5439	4751	1	KED
|	**Mo**	**98**	**15.082**	ug/L	0.293	1	4	16017	0	KED
|	**Cd**	**111**	**0.010**	ug/L	0.015	154	4	6	52	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.021	159	2	9	122	KED
⌈>	**Tb**	**159**		ug/L			674075	678560	0	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	5	135	430	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0314-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:27:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	29904	1	Standard
	Cl	**37**		ug/L			6475826	6447571	2	Standard
⌈>	**Sc**	**45**		ug/L			356827	356895	1	Standard
|	**Cr**	**52**	**0.015**	ug/L	0.019	127	14165	14424	3	Standard
|	**Cr**	**53**	**0.790**	ug/L	0.037	4	288	1845	5	Standard
⌊	**Mn**	**55**	**2.390**	ug/L	0.016	0	716	59044	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	21487	1	KED
|	**Ni**	**60**	**1.473**	ug/L	0.069	4	5	1598	3	KED
|	**Ni**	**62**	**1.494**	ug/L	0.132	8	1	262	8	KED
|	**Cu**	**63**	**0.030**	ug/L	0.002	7	26	114	5	KED
|	**Cu**	**65**	**0.042**	ug/L	0.008	18	10	74	16	KED
|	**Zn**	**66**	**0.449**	ug/L	0.044	9	14	191	9	KED
|	**Zn**	**67**	**1.030**	ug/L	0.222	21	3	71	19	KED
|	**As**	**75**	**0.004**	ug/L	0.005	112	4	4	21	KED
⌊	**Se**	**78**	**0.055**	ug/L	0.035	62	13	13	4	KED
	Y	**89**		ug/L			193494	157466	1	Standard
	Kr	**83**		ug/L			46	40	16	Standard
⌈>	**In-1**	**115**		ug/L			5439	4932	2	KED
|	**Mo**	**98**	**14.890**	ug/L	0.309	2	4	16411	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.007	45	4	7	18	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.002	16	2	9	10	KED
⌈>	**Tb**	**159**		ug/L			674075	687152	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	22	135	351	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:31:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	27146	0	Standard
	Cl	**37**		ug/L			6475826	6183415	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	322557	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.009	79	14165	12965	1	Standard
|	**Cr**	**53**	**-0.012**	ug/L	0.005	41	288	239	1	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	12	716	802	3	Standard
⌈>	**Ge**	**72**		ug/L			24857	21812	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.002	270	5	5	33	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.013	602	1	1	173	KED
|	**Cu**	**63**	**0.008**	ug/L	0.006	73	26	48	38	KED
|	**Cu**	**65**	**0.009**	ug/L	0.001	8	10	24	4	KED
|	**Zn**	**66**	**0.017**	ug/L	0.002	12	14	19	5	KED
|	**Zn**	**67**	**-0.021**	ug/L	0.029	137	3	1	100	KED
|	**As**	**75**	**-0.005**	ug/L	0.008	180	4	2	71	KED
⌊	**Se**	**78**	**-0.070**	ug/L	0.118	169	13	10	22	KED
	Y	**89**		ug/L			193494	162035	2	Standard
	Kr	**83**		ug/L			46	34	22	Standard
⌈>	**In-1**	**115**		ug/L			5439	4928	1	KED
|	**Mo**	**98**	**0.005**	ug/L	0.006	119	4	10	66	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.010	272	4	3	62	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	237	2	1	173	KED
⌈>	**Tb**	**159**		ug/L			674075	676505	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	8	135	170	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:36:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	25886	1	Standard
	Cl	**37**		ug/L			6475826	6340347	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	331836	2	Standard
|	**Cr**	**52**	**46.806**	ug/L	0.534	1	14165	739955	2	Standard
|	**Cr**	**53**	**46.006**	ug/L	0.820	1	288	84447	1	Standard
⌊	**Mn**	**55**	**47.740**	ug/L	1.164	2	716	1084141	3	Standard
⌈>	**Ge**	**72**		ug/L			24857	22965	0	KED
|	**Ni**	**60**	**51.005**	ug/L	0.682	1	5	59003	1	KED
|	**Ni**	**62**	**51.413**	ug/L	0.917	1	1	9586	1	KED
|	**Cu**	**63**	**51.746**	ug/L	0.441	0	26	169519	0	KED
|	**Cu**	**65**	**52.695**	ug/L	0.195	0	10	87781	0	KED
|	**Zn**	**66**	**51.716**	ug/L	0.156	0	14	22084	0	KED
|	**Zn**	**67**	**51.904**	ug/L	1.562	3	3	3693	2	KED
|	**As**	**75**	**49.498**	ug/L	0.662	1	4	11791	1	KED
⌊	**Se**	**78**	**48.520**	ug/L	1.017	2	13	1073	1	KED
	Y	**89**		ug/L			193494	169263	1	Standard
	Kr	**83**		ug/L			46	36	5	Standard
⌈>	**In-1**	**115**		ug/L			5439	5115	2	KED
|	**Mo**	**98**	**50.996**	ug/L	1.164	2	4	58283	1	KED
|	**Cd**	**111**	**52.805**	ug/L	0.496	0	4	12646	1	KED
⌊	**Cd**	**114**	**52.905**	ug/L	1.523	2	2	32128	1	KED
⌈>	**Tb**	**159**		ug/L			674075	691268	1	Standard
⌊	**Pb**	**208**	**56.787**	ug/L	1.504	2	135	3245420	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:43:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	26356	1	Standard
	Cl	**37**		ug/L			6475826	6132306	2	Standard
⌈>	**Sc**	**45**		ug/L			356827	339753	0	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.022	82	14165	13057	2	Standard
|	**Cr**	**53**	**-0.046**	ug/L	0.003	7	288	189	3	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	291	716	692	3	Standard
⌈>	**Ge**	**72**		ug/L			24857	23141	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.003	144	5	7	43	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.006	97	1	0	173	KED
|	**Cu**	**63**	**0.010**	ug/L	0.003	30	26	57	17	KED
|	**Cu**	**65**	**0.016**	ug/L	0.006	38	10	37	28	KED
|	**Zn**	**66**	**0.005**	ug/L	0.010	195	14	15	27	KED
|	**Zn**	**67**	**-0.014**	ug/L	0.016	111	3	2	43	KED
|	**As**	**75**	**-0.003**	ug/L	0.005	196	4	3	37	KED
⌊	**Se**	**78**	**-0.056**	ug/L	0.133	236	13	11	26	KED
	Y	**89**		ug/L			193494	169433	1	Standard
	Kr	**83**		ug/L			46	41	9	Standard
⌈>	**In-1**	**115**		ug/L			5439	5339	2	KED
|	**Mo**	**98**	**0.002**	ug/L	0.003	136	4	7	45	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.004	44	4	2	49	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	45	2	4	21	KED
⌈>	**Tb**	**159**		ug/L			674075	694865	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	90	135	157	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:48:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	34131	2	Standard
	Cl	**37**		ug/L			6475826	6219676	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	373459	1	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.018	81	14165	15215	1	Standard
|	**Cr**	**53**	**-0.037**	ug/L	0.008	22	288	226	9	Standard
⌊	**Mn**	**55**	**0.026**	ug/L	0.002	6	716	1413	3	Standard
⌈>	**Ge**	**72**		ug/L			24857	24017	1	KED
|	**Ni**	**60**	**0.009**	ug/L	0.006	74	5	15	48	KED
|	**Ni**	**62**	**0.010**	ug/L	0.010	98	1	3	50	KED
|	**Cu**	**63**	**0.011**	ug/L	0.003	29	26	62	18	KED
|	**Cu**	**65**	**0.013**	ug/L	0.008	62	10	32	41	KED
|	**Zn**	**66**	**0.150**	ug/L	0.015	10	14	81	9	KED
|	**Zn**	**67**	**0.052**	ug/L	0.050	94	3	7	50	KED
|	**As**	**75**	**-0.007**	ug/L	0.005	68	4	2	52	KED
⌊	**Se**	**78**	**-0.113**	ug/L	0.147	130	13	10	30	KED
	Y	**89**		ug/L			193494	189093	1	Standard
	Kr	**83**		ug/L			46	42	33	Standard
⌈>	**In-1**	**115**		ug/L			5439	5690	3	KED
|	**Mo**	**98**	**-0.001**	ug/L	0.000	15	4	3	3	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.005	93	4	3	41	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	278	2	1	99	KED
⌈>	**Tb**	**159**		ug/L			674075	739685	1	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	7	135	499	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:53:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	34097	2	Standard
	Cl	**37**		ug/L			6475826	6205562	2	Standard
⌈>	**Sc**	**45**		ug/L			356827	372253	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.004	187	14165	14815	0	Standard
|	**Cr**	**53**	**-0.047**	ug/L	0.006	11	288	204	6	Standard
⌊	**Mn**	**55**	**0.027**	ug/L	0.000	1	716	1431	1	Standard
⌈>	**Ge**	**72**		ug/L			24857	24581	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.002	88	5	8	32	KED
|	**Ni**	**62**	**0.003**	ug/L	0.014	451	1	2	114	KED
|	**Cu**	**63**	**0.008**	ug/L	0.004	54	26	52	26	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	78	10	17	30	KED
|	**Zn**	**66**	**0.141**	ug/L	0.032	22	14	78	17	KED
|	**Zn**	**67**	**0.109**	ug/L	0.051	46	3	12	32	KED
|	**As**	**75**	**-0.009**	ug/L	0.003	34	4	2	35	KED
⌊	**Se**	**78**	**-0.120**	ug/L	0.006	4	13	10	0	KED
	Y	**89**		ug/L			193494	190708	2	Standard
	Kr	**83**		ug/L			46	46	4	Standard
⌈>	**In-1**	**115**		ug/L			5439	5646	3	KED
|	**Mo**	**98**	**-0.000**	ug/L	0.002	622	4	4	49	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.004	42	4	2	49	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	51	2	0	233	KED
⌈>	**Tb**	**159**		ug/L			674075	740657	2	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	11	135	468	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 07:57:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	34605	0	Standard
	Cl	**37**		ug/L			6475826	6209848	2	Standard
⎡>	**Sc**	**45**		ug/L			356827	371115	1	Standard
⎢	**Cr**	**52**	**-0.001**	ug/L	0.011	1140	14165	14715	1	Standard
⎢	**Cr**	**53**	**-0.051**	ug/L	0.004	8	288	195	5	Standard
⎣	**Mn**	**55**	**0.025**	ug/L	0.002	6	716	1368	2	Standard
⎡>	**Ge**	**72**		ug/L			24857	23984	2	KED
⎢	**Ni**	**60**	**0.008**	ug/L	0.008	99	5	14	60	KED
⎢	**Ni**	**62**	**0.017**	ug/L	0.012	70	1	5	43	KED
⎢	**Cu**	**63**	**0.012**	ug/L	0.003	22	26	68	16	KED
⎢	**Cu**	**65**	**0.007**	ug/L	0.003	39	10	23	23	KED
⎢	**Zn**	**66**	**0.171**	ug/L	0.022	12	14	90	10	KED
⎢	**Zn**	**67**	**0.087**	ug/L	0.035	40	3	10	28	KED
⎢	**As**	**75**	**-0.001**	ug/L	0.006	1083	4	3	38	KED
⎣	**Se**	**78**	**-0.190**	ug/L	0.053	27	13	8	13	KED
	Y	**89**		ug/L			193494	186461	0	Standard
	Kr	**83**		ug/L			46	41	16	Standard
⎡>	**In-1**	**115**		ug/L			5439	5648	2	KED
⎢	**Mo**	**98**	**-0.001**	ug/L	0.003	388	4	4	91	KED
⎢	**Cd**	**111**	**-0.013**	ug/L	0.002	17	4	1	34	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.004	9335	2	2	118	KED
⎡>	**Tb**	**159**		ug/L			674075	732645	0	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.001	10	135	483	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 08:02:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	28426	4	Standard
	Cl	**37**		ug/L			6475826	6118729	3	Standard
⌈>	**Sc**	**45**		ug/L			356827	324893	1	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.018	63	14165	12469	3	Standard
|	**Cr**	**53**	**-0.054**	ug/L	0.007	13	288	166	8	Standard
⌊	**Mn**	**55**	**0.034**	ug/L	0.002	6	716	1407	4	Standard
⌈>	**Ge**	**72**		ug/L			24857	23592	1	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.002	118	5	3	50	KED
|	**Ni**	**62**	**0.004**	ug/L	0.011	303	1	2	86	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	275	26	22	40	KED
|	**Cu**	**65**	**0.003**	ug/L	0.002	93	10	14	27	KED
|	**Zn**	**66**	**0.157**	ug/L	0.038	24	14	82	20	KED
|	**Zn**	**67**	**0.124**	ug/L	0.105	84	3	12	60	KED
|	**As**	**75**	**-0.004**	ug/L	0.004	91	4	3	32	KED
⌊	**Se**	**78**	**-0.080**	ug/L	0.042	52	13	11	8	KED
	Y	**89**		ug/L			193494	170341	2	Standard
	Kr	**83**		ug/L			46	41	19	Standard
⌈>	**In-1**	**115**		ug/L			5439	5235	1	KED
|	**Mo**	**98**	**0.001**	ug/L	0.003	412	4	5	61	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.002	22	4	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	149	2	4	69	KED
⌈>	**Tb**	**159**		ug/L			674075	652619	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	157	135	120	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 08:07:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	28164	1	Standard
	Cl	**37**		ug/L			6475826	6069900	3	Standard
⎡>	**Sc**	**45**		ug/L			356827	329948	1	Standard
⎢	**Cr**	**52**	**-0.038**	ug/L	0.013	35	14165	12514	0	Standard
⎢	**Cr**	**53**	**-0.048**	ug/L	0.007	15	288	180	8	Standard
⎣	**Mn**	**55**	**0.021**	ug/L	0.001	5	716	1140	2	Standard
⎡>	**Ge**	**72**		ug/L			24857	23484	1	KED
⎢	**Ni**	**60**	**0.002**	ug/L	0.002	89	5	7	25	KED
⎢	**Ni**	**62**	**0.001**	ug/L	0.010	1597	1	1	100	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.001	93	26	20	21	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.001	12	10	20	5	KED
⎢	**Zn**	**66**	**0.193**	ug/L	0.052	26	14	97	21	KED
⎢	**Zn**	**67**	**0.073**	ug/L	0.061	83	3	8	49	KED
⎢	**As**	**75**	**-0.008**	ug/L	0.003	38	4	2	32	KED
⎣	**Se**	**78**	**-0.064**	ug/L	0.168	264	13	11	33	KED
	Y	**89**		ug/L			193494	169270	2	Standard
	Kr	**83**		ug/L			46	46	19	Standard
⎡>	**In-1**	**115**		ug/L			5439	5087	0	KED
⎢	**Mo**	**98**	**-0.001**	ug/L	0.002	182	4	3	61	KED
⎢	**Cd**	**111**	**-0.007**	ug/L	0.004	58	4	2	33	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.000	15	2	1	3	KED
⎡>	**Tb**	**159**		ug/L			674075	653408	1	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	37	135	97	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, December 29, 2022 08:11:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122822A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27319	28685	2	Standard
	Cl	**37**		ug/L			6475826	6100945	2	Standard
⌈>	**Sc**	**45**		ug/L			356827	329021	1	Standard
|	**Cr**	**52**	**-0.019**	ug/L	0.029	155	14165	12773	3	Standard
|	**Cr**	**53**	**-0.053**	ug/L	0.011	20	288	169	10	Standard
⌊	**Mn**	**55**	**0.013**	ug/L	0.001	8	716	957	3	Standard
⌈>	**Ge**	**72**		ug/L			24857	23365	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.002	779	5	5	43	KED
|	**Ni**	**62**	**0.001**	ug/L	0.010	1523	1	1	100	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	240	26	28	29	KED
|	**Cu**	**65**	**0.004**	ug/L	0.001	27	10	17	12	KED
|	**Zn**	**66**	**0.156**	ug/L	0.011	7	14	81	4	KED
|	**Zn**	**67**	**0.117**	ug/L	0.067	56	3	12	39	KED
|	**As**	**75**	**-0.009**	ug/L	0.001	12	4	1	15	KED
⌊	**Se**	**78**	**-0.054**	ug/L	0.022	41	13	11	3	KED
	Y	**89**		ug/L			193494	173943	3	Standard
	Kr	**83**		ug/L			46	46	18	Standard
⌈>	**In-1**	**115**		ug/L			5439	5223	2	KED
|	**Mo**	**98**	**-0.002**	ug/L	0.002	79	4	2	104	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.007	96	4	2	57	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	183	2	1	192	KED
⌈>	**Tb**	**159**		ug/L			674075	650738	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	100	135	117	11	Standard

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00010	Instrument:	ICPMS2
Calibration Date:	01/03/2023 14:18		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	190	10	176.5	20	174.75	50	172.26	100	173.01

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00010	Instrument:	ICPMS2
Calibration Date:	01/03/2023 14:18		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	147.7533	49.2	1.0000		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** SLAΦΦ22 **Cal:** GAΦΦΦ1Φ

All corrections made by analyst unless otherwise noted. MB 1/3/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ111		
		-CAL2	K11737		
		-CAL3	K11738		
		-CAL4	K11739		
		-CAL5	LΦΦ73		
		-CAL6	K1174Φ		
		-IBL1	—		
		-ICV1	K74Φ3		
		-ICB1	LΦ111		
		-CCV1	LΦΦ73		
		-CCB1	LΦ111		
		-CRL1	K11737		
		-IFA1	K11871		Cr^{53} ↑
		-IFB1	K11683		↓
		-HCV1	K11379		
		-HCV2	K1154Φ		Cr^{52} ↓ - Cr < 200
		-IBL2	—		
		-CCV2			
		-CCB2			
		BKLΦ716-BLK1	REN		Cu ↑ (0.509 / 0.505)
		↓ -BS1			
		BKLΦ718-BLK1			
		↓ -BS1			
		22LΦ644-Φ1	↓		

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22L0644-02	REN		Zn↑ Zn NR
		22L0641-01		2	
		22L0643-01		↓	
		22L0644-02RE1		5	Zn only
		SEQ-IBL3			
		↓ -CCV3			
		↓ -CCB3			
		BKL0699-BLK1	REN		
		↓ -BS1			
		22L0241-01			
		22L0249-03			
		↓ -01		2	
		22L0525-01		↓	Cu >10x cont.
		22L0562-01			Cd noisy / Cu<10x cont. OK by PM — Cd NR
		22L0563-01			Cu<10x cont. OK by PM
		22L0562-01RE1		5	Cd only
		SEQ-IBL4			
		↓ -CCV4			
		↓ -CCB4			
	✓	BKL0716-BLK1	REN		Cu↑
		BKL0559-BLK1			
		↓ -BS1			
		BKL0560-BLK1			
		↓ -BS1			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/3/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22L0162-07	REN		
		22L0163-04	↓		
		↓ -06	↓		
		↓ -07	↓		
		SEQ-IBL5			
		↓ -CCV5			
		↓ -CCB5			
		22L0162-08	REN		
		BKL0560-SRL1	↓	5	
		↓ -DUP1	↓		
		↓ -MS1	↓		
		↓ -PS1	↓		
		22L0199-11	SWN	100	
		BKL0529-DUP1	↓	↓	
		↓ -MS1	↓	↓	As STL
		↓ -MSD1	↓	↓	↓
		SEQ-IBL6			
		↓ -CCV6			
		↓ -CCB6			
		22L0162-04	REN		
		BKL0559-SRL1	↓	5	
	✓	↓ -DUP1	↓		
		↓ -MS1	↓		
		↓ -PS1	↓		

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** ~~~ **Cal:** ~~~

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ139-Φ1	REN		Cd only
		22LΦ22Φ-Φ1	↓		Zn only
		22LΦ262-Φ1	↓		
		22LΦ262-Φ2	↓		
		SEQ-IBL7			
		-CCV7			
		-CCB7			
	✓	-CAL1			
		-CCV8			
		-CCB8			
		BKLΦ559-DUP1	REN		Zn RPDT
		22LΦ238-Φ1	↓	2	
		22LΦ239-Φ1	↓	↓	In+noisy-%R+ Analytes OK
		22LΦ199-21	SWN	100	As only
		-16	↓	200	↓
		-12	↓	500	↓
		-14	↓	↓	↓
		-15	↓	↓	↓
		-13	↓	1000	↓
		SEQ-IBL8			
		-CCV9			
		-CCB9			
		22LΦ265-Φ1	REN		
		22LΦ323-Φ1	↓	2	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/3/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22L0323-02	REN		
		↓ -03			
		22L0324-01			
		22L0339-01			
		22L0344-01			
		22L0345-01			
		22L0370-01		5	
		SEQ-IBL9			
		-CCVA			
		↓ -CCBA			
		22L0346-01	REN		SCT - Not Needed
		22L0347-01			
		↓ -02		5	
		22L0348-01			
		↓ -02			
		22L0349-01			
		22L0351-01			
		↓ -02			
		22L0353-01			
		SEQ-IBLA			
		-CCVB			
		↓ -CCBB			
		22L0377-04	REN		
		↓ -06	↓		SCT - Not Needed

Analytical Resources, Incorporated
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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ377-Φ8	REN		SCT - Not Needed
		-1Φ			
		-12			SCT - Not Needed
		-14			↓ ↓
		-Φ2			
		BKLΦ699-DAP1			
		↓ -MS1			
		SEQ-IBLB			
		-CCVC			
		-CCBC			
	✓	-CAL1			
		-CCVD			
		-CCBD			
		22LΦ352-Φ1	REN		
		↓ -Φ2			
		22LΦ354-Φ1			
		22LΦ356-Φ1			
		22LΦ358-Φ1			
		22LΦ38Φ-Φ1			
		22LΦ368-Φ1			SCT - Not Needed
		-Φ2			↓ ↓
		↓ -Φ3			
		SEQ-IBLC			
		↓ -CCVE			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** ~~~ **Cal:** ~~~

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			
		22LØ369-Ø1	REN		
		-Ø2	↓		
		-Ø3	↓		
		22LØ371-Ø1	↓		
		-Ø2	↓		
		-Ø3	↓		Cu↑ No Cu
		-Ø4	↓		↓ ↓
		22LØ325-Ø7	↓		Zn↑ No Zn
		22LØ337-Ø1	↓		
		SEQ-IBLD			
		-CCVF			
		-CCBF			
		22LØ372-Ø2	REN		
		-Ø3	↓		
		-Ø4	↓		
		-Ø5	↓		
		-Ø6	↓		
		-Ø7	↓		
		22LØ35Ø-Ø1	↓		Mn↑ No Mn
		22LØ359-Ø1	↓		
		-Ø2	↓		
		SEQ-IBLE			(Cr 53↑)
		-CCVG			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/3/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBG			
	√	-CAL1			
		-CCVH			
		-CCBH			
		22LΦ406-Φ1	REN	20	Zn↑ No Zn
		22LΦ377-Φ1			
		-Φ3			
		-Φ5			Sc↑ - Not Needed
		-Φ7			↓ ↓
		-Φ9			
		-11			Sc↑ - Not Needed
		-13			↓ ↓
		-15			↓ ↓ No Cr
		SEQ-IBLF			
		-CCVI			
		-CCBI			
		22LΦ382-Φ1	REN	2	
		22LΦ393-Φ1	↓	↓	Cd noisy No Cd
		22LΦ401-Φ1	↓	↓	Cu < 10x cont. OK by PM
		SEQ-IBLG			
		22LΦ452-Φ1	REN		Sc↑ - Not Needed
		↓ -Φ2	↓		
		22LΦ387-Φ1	↓		Sc↑ No Cr
		BKLΦ716-DUP1	↓		↓ ↓

Analytical Resources, Incorporated
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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/3/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ716-MS1	REN		Sc↑ No Cr
		SEQ-IBL1			
		↓ -CCVJ			
		↓ -CCBJ			
		BLAΦΦ23-BLK1	REN		
		↓ -BS1			
		22LΦ416-84			
		↓ -83			As, Cd, Cu, Ni, Pb, Zn only
		BKLΦ718-DUP1			↓
		↓ -MS1			
		22LΦ444-Φ1			Sc↑ - Not Needed
		↓ -Φ3			↓ ↓
		↓ -Φ5			
		SEQ-IBL1			
		↓ -CCVK			
		↓ -CCBK			
		22LΦ444-Φ7	REN		Sc↑ - Not Needed
		↓ -Φ9			↓ ↓
		-11			
		-13			
		↓ -15			Sc↑ - Not Needed
		22LΦ441-Φ5			
		BKBLAΦΦ23-DUP1			
		BLAΦΦ23-MS1			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/3/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLAΦΦ23-MSD1	REN		
		SEQ-IBLJ			
		-CCVL			
		-CCBL			
		Rinse/DI			
			MB		
			1/3/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, January 03, 2023 13:09:08
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4825
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7154.5	7151.985	102.733	1.4	Standard
	In	114.9	46013.1	-218524.256	601.518	0.3	Standard
	U	238.1	45130.4	45130.375	229.968	0.5	Standard
⌈	CeO	155.9	436.3	0.011	0.000	4.2	Standard
| >	Ce	139.9	41526.8	41526.804	238.497	0.6	Standard
⌊	Ce++	70.0	830.4	0.020	0.001	4.1	Standard
	Bkgd	220.0	0.2	0.233	0.091	39.1	Standard

Current Conditions File Data

Current Value	Description
1.07	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.08	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, January 03, 2023 13:18:24
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4831
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8872.8	8872.822	142.938	1.6	Standard
	In	114.9	55399.2	55399.220	596.969	1.1	Standard
	U	238.1	55549.5	55549.536	637.420	1.1	Standard
⌈	CeO	155.9	876.0	0.019	0.001	3.5	Standard
| >	Ce	139.9	46246.3	46246.337	321.375	0.7	Standard
⌊	Ce++	70.0	1505.9	0.033	0.001	1.8	Standard
	Bkgd	220.0	0.1	0.067	0.091	136.9	Standard

Current Conditions File Data

Current Value	Description
1.09	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.09	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/3/2023 1:09:06 PM
End Time: 1/3/2023 1:20:28 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7154.52
Obtained Intensity (In 115): 46013.13
Obtained Intensity (U 238): 45130.38
Obtained Intensity (Bkgd 220): 0.23
Obtained Formula (Ce++ 70 / Ce 140): 0.020 (=830.42 / 41526.80)
Obtained Formula (CeO 156 / Ce 140): 0.011 (=436.34 / 41526.80)
Obtained RSD (Be 9): 0.0144
Obtained RSD (In 115): 0.0028
Obtained RSD (U 238): 0.0051

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.01 mm	0.01 mm	45927.71

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.09
Obtained Intensity (In 115): 53871.38
Obtained Formula (CeO 156 / Ce 140): 0.0221 (=990.03 / 44830.23)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.691)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.695)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.677)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.711)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.989; Intercept = -11.42

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.987; Intercept = -12.69

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 8872.82
Obtained Intensity (In 115): 55399.22
Obtained Intensity (U 238): 55549.54
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.033 (=1505.88 / 46246.34) - <Target not achieved>
Obtained Formula (CeO 156 / Ce 140): 0.019 (=875.96 / 46246.34)
Obtained RSD (Be 9): 0.0161
Obtained RSD (In 115): 0.0108
Obtained RSD (U 238): 0.0115

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/3/2023 1:09:06 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7154.52
		Obtained Intensity (In 115): 46013.13
		Obtained Intensity (U 238): 45130.38
		Obtained Intensity (Bkgd 220): 0.23
		Obtained Formula (Ce++ 70 / Ce 140): 0.020 (=830.42 / 41526.80)
		Obtained Formula (CeO 156 / Ce 140): 0.011 (=436.34 / 41526.80)
		Obtained RSD (Be 9): 0.0144
		Obtained RSD (In 115): 0.0028
		Obtained RSD (U 238): 0.0051

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.01 mm	0.01 mm	45927.71

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 53871.38
		Obtained Formula (CeO 156 / Ce 140): 0.0221 (=990.03 / 44830.23)
[Passed] Optimum value(s): 1.09

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.691)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.695)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.677)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.711)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.989; Intercept = -11.42

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-12	37906.2
Mg	24	41	-12.5	35957.2
In	115	41	-10.5	58375
Ce	140	41	-8.5	45359.9
Pb	208	41	-7	32937.9
U	238	41	-7	56146.1

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.987; Intercept = -12.69

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	28957.3
Mg	24	41	-13	20410.6
In	115	41	-11	42996.6
Ce	140	41	-9	41692.8
Pb	208	41	-7.5	27879.2
U	238	41	-7.5	40088.2

STD Performance Check
Optimization Settings:
Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000

```
            Intensity Criterion: U 238 > 30000
            Intensity Criterion: Bkgd 220 <= 1
            Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
            Formula Criterion: CeO 156 / Ce 140 <= 0.025
            RSD Criterion: Be 9.0122 < 0.05
            RSD Criterion: In 114.904 < 0.05
            RSD Criterion: U 238.05 < 0.05

      Optimization Results:
      Initial Try
            Obtained Intensity (Be 9): 8872.82
            Obtained Intensity (In 115): 55399.22
            Obtained Intensity (U 238): 55549.54
            Obtained Intensity (Bkgd 220): 0.07
            Obtained Formula (Ce++ 70 / Ce 140): 0.033 (=1505.88 / 46246.34) - <Target not achieved>
            Obtained Formula (CeO 156 / Ce 140): 0.019 (=875.96 / 46246.34)
            Obtained RSD (Be 9): 0.0161
            Obtained RSD (In 115): 0.0108
            Obtained RSD (U 238): 0.0115

            [Failed]
[Failed]

End Time: 1/3/2023 1:20:28 PM
```

Performance Check Report

Sample ID: STD Performance Check

Sample Date/Time: Tuesday, January 03, 2023 13:21:36
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4832
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8885.8	8885.763	112.686	1.3	Standard
	In	114.9	55273.1	55273.057	250.321	0.5	Standard
	U	238.1	55645.4	55645.431	187.179	0.3	Standard
⌈	CeO	155.9	844.3	0.018	0.001	4.7	Standard
| >	Ce	139.9	46390.3	46390.268	204.176	0.4	Standard
⌊	Ce++	70.0	1508.6	0.033	0.001	3.1	Standard
	Bkgd	220.0	0.2	0.200	0.139	69.7	Standard

Current Conditions File Data

Current Value	Description
1.09	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.09	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/3/2023 1:21:35 PM
End Time: 1/3/2023 1:23:40 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 8885.76
Obtained Intensity (In 115): 55273.06
Obtained Intensity (U 238): 55645.43
Obtained Intensity (Bkgd 220): 0.20
Obtained Formula (Ce++ 70 / Ce 140): 0.033 (=1508.61 / 46390.27) - <Target not achieved>
Obtained Formula (CeO 156 / Ce 140): 0.018 (=844.29 / 46390.27)
Obtained RSD (Be 9): 0.0127
Obtained RSD (In 115): 0.0045
Obtained RSD (U 238): 0.0034

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/3/2023 1:21:35 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 8885.76
		Obtained Intensity (In 115): 55273.06
		Obtained Intensity (U 238): 55645.43
		Obtained Intensity (Bkgd 220): 0.20
		Obtained Formula (Ce++ 70 / Ce 140): 0.033 (=1508.61 / 46390.27) - <Target not achieved>
		Obtained Formula (CeO 156 / Ce 140): 0.018 (=844.29 / 46390.27)
		Obtained RSD (Be 9): 0.0127
		Obtained RSD (In 115): 0.0045
		Obtained RSD (U 238): 0.0034

		[Failed]
[Failed]

End Time: 1/3/2023 1:23:40 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, January 03, 2023 13:23:53
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4833
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7786.9	7786.922	102.368	1.3	Standard
	In	114.9	50487.9	50487.929	349.903	0.7	Standard
	U	238.1	51516.7	51516.658	349.021	0.7	Standard
⌈	CeO	155.9	588.1	0.014	0.000	2.2	Standard
| >	Ce	139.9	43519.0	43518.989	326.018	0.7	Standard
⌊	Ce++	70.0	1108.6	0.025	0.000	1.2	Standard
	Bkgd	220.0	0.0	0.000	0.000		Standard

Current Conditions File Data

Current Value	Description
1.08	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.09	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

NEB FLOW MANUALLY LOWERED. -MB 1/3/23

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/3/2023 1:23:52 PM
End Time: 1/3/2023 1:25:57 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7786.92
Obtained Intensity (In 115): 50487.93
Obtained Intensity (U 238): 51516.66
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1108.58 / 43518.99)
Obtained Formula (CeO 156 / Ce 140): 0.014 (=588.08 / 43518.99)
Obtained RSD (Be 9): 0.0131
Obtained RSD (In 115): 0.0069
Obtained RSD (U 238): 0.0068

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/3/2023 1:23:52 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7786.92
		Obtained Intensity (In 115): 50487.93
		Obtained Intensity (U 238): 51516.66
		Obtained Intensity (Bkgd 220): 0.00
		Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1108.58 / 43518.99)
		Obtained Formula (CeO 156 / Ce 140): 0.014 (=588.08 / 43518.99)
		Obtained RSD (Be 9): 0.0131
		Obtained RSD (In 115): 0.0069
		Obtained RSD (U 238): 0.0068

[Passed] Optimum value(s): N/A

End Time: 1/3/2023 1:25:57 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 14:18:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				30014	2	Standard
	Cl	**37**		ug/L				4303531	1	Standard
⎡>	**Sc**	**45**		ug/L				465524	0	Standard
⎢	**Cr**	**52**		ug/L				12042	1	Standard
⎢	**Cr**	**53**		ug/L				429	1	Standard
⎣	**Mn**	**55**		ug/L				1435	1	Standard
⎡>	**Ge**	**72**		ug/L				21559	0	KED
⎢	**Ni**	**60**		ug/L				34	8	KED
⎢	**Ni**	**62**		ug/L				8	93	KED
⎢	**Cu**	**63**		ug/L				151	1	KED
⎢	**Cu**	**65**		ug/L				80	5	KED
⎢	**Zn**	**66**		ug/L				25	30	KED
⎢	**Zn**	**67**		ug/L				3	69	KED
⎣	**As**	**75**		ug/L				9	28	KED
	Y	**89**		ug/L				238833	3	Standard
	Kr	**83**		ug/L				73	25	Standard
⎡>	**In-1**	**115**		ug/L				5713	1	KED
⎢	**Cd**	**111**		ug/L				3	83	KED
⎣	**Cd**	**114**		ug/L				4	34	KED
⎡>	**Tb**	**159**		ug/L				454345	1	Standard
⎣	**Pb**	**208**		ug/L				255	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 14:22:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	34314	1	Standard
	Cl	**37**		ug/L			4303531	4285790	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	465410	0	Standard
⎢	**Cr**	**52**	**0.500**	ug/L	0.008	1	12042	19658	0	Standard
⎢	**Cr**	**53**	**0.500**	ug/L	0.022	4	429	1242	2	Standard
⎣	**Mn**	**55**	**0.500**	ug/L	0.006	1	1435	12305	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	21893	1	KED
⎢	**Ni**	**60**	**0.500**	ug/L	0.022	4	34	423	2	KED
⎢	**Ni**	**62**	**0.500**	ug/L	0.149	29	8	67	26	KED
⎢	**Cu**	**63**	**0.500**	ug/L	0.028	5	151	1314	6	KED
⎢	**Cu**	**65**	**0.500**	ug/L	0.073	14	80	596	12	KED
⎢	**Zn**	**66**	**6.000**	ug/L	0.273	4	25	2072	4	KED
⎢	**Zn**	**67**	**6.000**	ug/L	0.409	6	3	318	4	KED
⎣	**As**	**75**	**0.200**	ug/L	0.036	18	9	38	15	KED
	Y	**89**		ug/L			238833	237977	1	Standard
	Kr	**83**		ug/L			73	73	19	Standard
⎡>	**In-1**	**115**		ug/L			5713	5578	0	KED
⎢	**Cd**	**111**	**0.100**	ug/L	0.021	20	3	19	18	KED
⎣	**Cd**	**114**	**0.100**	ug/L	0.026	26	4	48	23	KED
⎡>	**Tb**	**159**		ug/L			454345	454299	2	Standard
⎣	**Pb**	**208**	**0.100**	ug/L	0.003	2	255	3745	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 14:27:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	42919	2	Standard
	Cl	**37**		ug/L			4303531	4400592	2	Standard
⌈>	**Sc**	**45**		ug/L			465524	479516	1	Standard
|	**Cr**	**52**	**10.001**	ug/L	0.099	0	12042	173871	0	Standard
|	**Cr**	**53**	**10.003**	ug/L	0.134	1	429	19201	0	Standard
⌊	**Mn**	**55**	**10.001**	ug/L	0.167	1	1435	231240	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	21968	0	KED
|	**Ni**	**60**	**10.002**	ug/L	0.230	2	34	8563	2	KED
|	**Ni**	**62**	**10.005**	ug/L	0.109	1	8	1480	1	KED
|	**Cu**	**63**	**10.002**	ug/L	0.184	1	151	24952	1	KED
|	**Cu**	**65**	**10.004**	ug/L	0.136	1	80	12584	1	KED
|	**Zn**	**66**	**10.034**	ug/L	0.367	3	25	3493	3	KED
|	**Zn**	**67**	**10.158**	ug/L	0.254	2	3	563	2	KED
⌊	**As**	**75**	**10.001**	ug/L	0.067	0	9	1765	1	KED
	Y	**89**		ug/L			238833	239726	1	Standard
	Kr	**83**		ug/L			73	73	23	Standard
⌈>	**In-1**	**115**		ug/L			5713	5792	3	KED
|	**Cd**	**111**	**10.000**	ug/L	0.599	5	3	1964	3	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.319	3	4	4857	0	KED
⌈>	**Tb**	**159**		ug/L			454345	462175	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.223	2	255	361464	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 14:31:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	39174	0	Standard
	Cl	**37**		ug/L			4303531	4404370	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	476136	1	Standard
⎢	**Cr**	**52**	**19.990**	ug/L	0.149	0	12042	332129	1	Standard
⎢	**Cr**	**53**	**19.993**	ug/L	0.502	2	429	37617	2	Standard
⎣	**Mn**	**55**	**20.006**	ug/L	0.035	0	1435	458478	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	21648	0	KED
⎢	**Ni**	**60**	**20.059**	ug/L	0.537	2	34	17092	3	KED
⎢	**Ni**	**62**	**19.888**	ug/L	0.248	1	8	2829	1	KED
⎢	**Cu**	**63**	**20.064**	ug/L	0.069	0	151	49803	0	KED
⎢	**Cu**	**65**	**20.018**	ug/L	0.519	2	80	24824	2	KED
⎢	**Zn**	**66**	**20.017**	ug/L	0.456	2	25	6860	2	KED
⎢	**Zn**	**67**	**20.164**	ug/L	1.784	8	3	1125	9	KED
⎣	**As**	**75**	**20.028**	ug/L	0.100	0	9	3495	0	KED
	Y	**89**		ug/L			238833	237666	3	Standard
	Kr	**83**		ug/L			73	81	12	Standard
⎡>	**In-1**	**115**		ug/L			5713	5755	1	KED
⎢	**Cd**	**111**	**19.936**	ug/L	0.380	1	3	3843	1	KED
⎣	**Cd**	**114**	**19.948**	ug/L	0.268	1	4	9529	1	KED
⎡>	**Tb**	**159**		ug/L			454345	456787	1	Standard
⎣	**Pb**	**208**	**20.000**	ug/L	0.232	1	255	714291	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 14:36:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	30168	2	Standard
	Cl	**37**		ug/L			4303531	4981252	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	465449	3	Standard
⎢	**Cr**	**52**	**50.107**	ug/L	0.695	1	12042	804058	2	Standard
⎢	**Cr**	**53**	**50.179**	ug/L	0.631	1	429	93295	1	Standard
⎣	**Mn**	**55**	**50.255**	ug/L	0.940	1	1435	1152518	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	21024	2	KED
⎢	**Ni**	**60**	**50.066**	ug/L	1.369	2	34	41633	0	KED
⎢	**Ni**	**62**	**50.024**	ug/L	1.197	2	8	6913	0	KED
⎢	**Cu**	**63**	**50.177**	ug/L	2.192	4	151	122819	1	KED
⎢	**Cu**	**65**	**49.911**	ug/L	1.408	2	80	59436	0	KED
⎢	**Zn**	**66**	**50.095**	ug/L	1.681	3	25	16774	1	KED
⎢	**Zn**	**67**	**50.087**	ug/L	0.676	1	3	2733	3	KED
⎣	**As**	**75**	**50.152**	ug/L	1.323	2	9	8613	1	KED
	Y	**89**		ug/L			238833	235881	2	Standard
	Kr	**83**		ug/L			73	82	21	Standard
⎡>	**In-1**	**115**		ug/L			5713	5640	1	KED
⎢	**Cd**	**111**	**50.154**	ug/L	1.590	3	3	9616	1	KED
⎣	**Cd**	**114**	**50.014**	ug/L	1.663	3	4	23435	1	KED
⎡>	**Tb**	**159**		ug/L			454345	458631	0	Standard
⎣	**Pb**	**208**	**50.003**	ug/L	0.573	1	255	1793391	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 14:43:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	37808	1	Standard
	Cl	**37**		ug/L			4303531	5181811	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	472502	2	Standard
|	**Cr**	**52**	**99.830**	ug/L	1.150	1	12042	1605139	1	Standard
|	**Cr**	**53**	**99.519**	ug/L	1.580	1	429	184460	1	Standard
⌊	**Mn**	**55**	**97.482**	ug/L	1.710	1	1435	2093125	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	21728	1	KED
|	**Ni**	**60**	**99.063**	ug/L	1.469	1	34	82548	0	KED
|	**Ni**	**62**	**99.081**	ug/L	2.739	2	8	13724	1	KED
|	**Cu**	**63**	**98.541**	ug/L	2.336	2	151	237713	1	KED
|	**Cu**	**65**	**99.140**	ug/L	2.116	2	80	118557	0	KED
|	**Zn**	**66**	**98.375**	ug/L	3.563	3	25	32295	1	KED
|	**Zn**	**67**	**99.218**	ug/L	0.634	0	3	5451	2	KED
⌊	**As**	**75**	**99.410**	ug/L	0.794	0	9	17301	1	KED
	Y	**89**		ug/L			238833	233567	1	Standard
	Kr	**83**		ug/L			73	95	9	Standard
⌈>	**In-1**	**115**		ug/L			5713	5746	1	KED
|	**Cd**	**111**	**99.234**	ug/L	1.380	1	3	18903	0	KED
⌊	**Cd**	**114**	**99.077**	ug/L	1.451	1	4	45895	0	KED
⌈>	**Tb**	**159**		ug/L			454345	462291	1	Standard
⌊	**Pb**	**208**	**99.491**	ug/L	1.019	1	255	3536140	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 14:50:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	28819	0	Standard
	Cl	**37**		ug/L			4303531	4513369	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	458575	0	Standard
⎢	**Cr**	**52**	**-0.029**	ug/L	0.007	24	12042	11405	0	Standard
⎢	**Cr**	**53**	**-0.075**	ug/L	0.003	3	429	288	2	Standard
⎣	**Mn**	**55**	**-0.042**	ug/L	0.001	1	1435	540	2	Standard
⎡>	**Ge**	**72**		ug/L			21559	21581	0	KED
⎢	**Ni**	**60**	**-0.038**	ug/L	0.001	3	34	3	34	KED
⎢	**Ni**	**62**	**-0.046**	ug/L	0.014	30	8	1	100	KED
⎢	**Cu**	**63**	**-0.050**	ug/L	0.001	2	151	31	9	KED
⎢	**Cu**	**65**	**-0.056**	ug/L	0.003	5	80	14	27	KED
⎢	**Zn**	**66**	**-0.021**	ug/L	0.028	132	25	18	48	KED
⎢	**Zn**	**67**	**0.035**	ug/L	0.072	208	3	5	78	KED
⎣	**As**	**75**	**-0.017**	ug/L	0.012	72	9	6	33	KED
	Y	**89**		ug/L			238833	235670	2	Standard
	Kr	**83**		ug/L			73	72	19	Standard
⎡>	**In-1**	**115**		ug/L			5713	5832	2	KED
⎢	**Cd**	**111**	**-0.005**	ug/L	0.008	143	3	2	57	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.002	171	4	4	20	KED
⎡>	**Tb**	**159**		ug/L			454345	450844	2	Standard
⎣	**Pb**	**208**	**-0.003**	ug/L	0.000	2	255	141	4	Standard

Sample Information

Sample Date/Time: Tuesday, January 03, 2023 14:43:08
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.034	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Mn	55	**0.9989**	0.045	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.038	0.50	10	20	50	100
Ni	62	**0.9999**	0.006	0.50	10	20	50	100
Cu	63	**0.9996**	0.111	0.50	10	20	50	100
Cu	65	**0.9999**	0.055	0.50	10	20	50	100
Zn	66	**0.9996**	0.015	6.00	10	20	50	100
Zn	67	**0.9999**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**0.9999**	0.033	0.10	10	20	50	100
Cd	114	**0.9999**	0.081	0.10	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.077	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:06:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	38927	1	Standard
	Cl	**37**		ug/L			4303531	5034459	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	481540	0	Standard
⎢	**Cr**	**52**	**49.875**	ug/L	0.519	1	12042	823632	1	Standard
⎢	**Cr**	**53**	**50.357**	ug/L	0.655	1	429	95361	0	Standard
⎣	**Mn**	**55**	**53.524**	ug/L	0.996	1	1435	1171998	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	21915	1	KED
⎢	**Ni**	**60**	**51.997**	ug/L	0.623	1	34	43723	1	KED
⎢	**Ni**	**62**	**52.003**	ug/L	1.052	2	8	7270	1	KED
⎢	**Cu**	**63**	**52.203**	ug/L	0.721	1	151	127096	0	KED
⎢	**Cu**	**65**	**51.675**	ug/L	0.944	1	80	62374	0	KED
⎢	**Zn**	**66**	**48.546**	ug/L	1.058	2	25	16092	1	KED
⎢	**Zn**	**67**	**48.349**	ug/L	0.582	1	3	2681	2	KED
⎣	**As**	**75**	**47.308**	ug/L	0.440	0	9	8310	1	KED
	Y	**89**		ug/L			238833	239987	2	Standard
	Kr	**83**		ug/L			73	73	28	Standard
⎡>	**In-1**	**115**		ug/L			5713	5779	2	KED
⎢	**Cd**	**111**	**49.436**	ug/L	1.044	2	3	9470	0	KED
⎣	**Cd**	**114**	**50.235**	ug/L	1.378	2	4	23398	1	KED
⎡>	**Tb**	**159**		ug/L			454345	468679	0	Standard
⎣	**Pb**	**208**	**50.799**	ug/L	0.819	1	255	1830765	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:13:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	28859	0	Standard
	Cl	**37**		ug/L			4303531	4424653	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	460592	1	Standard
⎢	**Cr**	**52**	**-0.041**	ug/L	0.009	22	12042	11270	0	Standard
⎢	**Cr**	**53**	**-0.060**	ug/L	0.015	25	429	316	7	Standard
⎣	**Mn**	**55**	**-0.043**	ug/L	0.001	2	1435	518	4	Standard
⎡>	**Ge**	**72**		ug/L			21559	21770	3	KED
⎢	**Ni**	**60**	**-0.038**	ug/L	0.002	5	34	3	50	KED
⎢	**Ni**	**62**	**-0.033**	ug/L	0.014	43	8	3	50	KED
⎢	**Cu**	**63**	**-0.047**	ug/L	0.001	1	151	38	7	KED
⎢	**Cu**	**65**	**-0.052**	ug/L	0.006	11	80	19	39	KED
⎢	**Zn**	**66**	**-0.012**	ug/L	0.018	145	25	21	26	KED
⎢	**Zn**	**67**	**0.012**	ug/L	0.036	311	3	3	50	KED
⎣	**As**	**75**	**-0.017**	ug/L	0.014	83	9	6	35	KED
	Y	**89**		ug/L			238833	230142	2	Standard
	Kr	**83**		ug/L			73	81	10	Standard
⎡>	**In-1**	**115**		ug/L			5713	5777	1	KED
⎢	**Cd**	**111**	**0.002**	ug/L	0.005	347	3	3	25	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.003	68	4	2	50	KED
⎡>	**Tb**	**159**		ug/L			454345	454035	0	Standard
⎣	**Pb**	**208**	**-0.004**	ug/L	0.000	5	255	131	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:18:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	30370	1	Standard
	Cl	**37**		ug/L			4303531	5056623	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	462433	0	Standard
⎢	**Cr**	**52**	**49.862**	ug/L	0.559	1	12042	790731	0	Standard
⎢	**Cr**	**53**	**50.214**	ug/L	0.937	1	429	91319	1	Standard
⎣	**Mn**	**55**	**53.308**	ug/L	0.604	1	1435	1121021	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	22174	2	KED
⎢	**Ni**	**60**	**49.807**	ug/L	1.709	3	34	42361	1	KED
⎢	**Ni**	**62**	**47.991**	ug/L	0.506	1	8	6790	2	KED
⎢	**Cu**	**63**	**49.990**	ug/L	0.877	1	151	123139	0	KED
⎢	**Cu**	**65**	**49.448**	ug/L	1.729	3	80	60381	2	KED
⎢	**Zn**	**66**	**49.673**	ug/L	1.388	2	25	16657	1	KED
⎢	**Zn**	**67**	**49.812**	ug/L	1.307	2	3	2794	2	KED
⎣	**As**	**75**	**49.682**	ug/L	1.064	2	9	8827	1	KED
	Y	**89**		ug/L			238833	234681	1	Standard
	Kr	**83**		ug/L			73	89	3	Standard
⎡>	**In-1**	**115**		ug/L			5713	5689	0	KED
⎢	**Cd**	**111**	**52.381**	ug/L	0.357	0	3	9880	0	KED
⎣	**Cd**	**114**	**52.516**	ug/L	1.374	2	4	24088	2	KED
⎡>	**Tb**	**159**		ug/L			454345	459965	1	Standard
⎣	**Pb**	**208**	**50.327**	ug/L	0.980	1	255	1779682	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:25:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	29225	1	Standard
	Cl	**37**		ug/L			4303531	4493517	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	455332	1	Standard
⎢	**Cr**	**52**	**-0.032**	ug/L	0.009	27	12042	11291	2	Standard
⎢	**Cr**	**53**	**-0.063**	ug/L	0.011	17	429	308	4	Standard
⎣	**Mn**	**55**	**-0.044**	ug/L	0.001	3	1435	503	5	Standard
⎡>	**Ge**	**72**		ug/L			21559	22227	0	KED
⎢	**Ni**	**60**	**-0.031**	ug/L	0.004	12	34	9	34	KED
⎢	**Ni**	**62**	**-0.020**	ug/L	0.035	179	8	5	88	KED
⎢	**Cu**	**63**	**-0.050**	ug/L	0.001	1	151	33	6	KED
⎢	**Cu**	**65**	**-0.052**	ug/L	0.007	13	80	19	43	KED
⎢	**Zn**	**66**	**0.007**	ug/L	0.010	136	25	28	11	KED
⎢	**Zn**	**67**	**-0.002**	ug/L	0.020	1132	3	3	34	KED
⎣	**As**	**75**	**-0.019**	ug/L	0.006	29	9	6	16	KED
	Y	**89**		ug/L			238833	238526	3	Standard
	Kr	**83**		ug/L			73	74	21	Standard
⎡>	**In-1**	**115**		ug/L			5713	6191	0	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.003	86	3	4	12	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.000	12	4	5	2	KED
⎡>	**Tb**	**159**		ug/L			454345	459070	1	Standard
⎣	**Pb**	**208**	**-0.004**	ug/L	0.000	9	255	111	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:32:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	33232	1	Standard
	Cl	**37**		ug/L			4303531	4349540	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	472529	1	Standard
⎢	**Cr**	**52**	**0.439**	ug/L	0.023	5	12042	19223	2	Standard
⎢	**Cr**	**53**	**0.424**	ug/L	0.009	2	429	1219	0	Standard
⎣	**Mn**	**55**	**0.486**	ug/L	0.003	0	1435	11894	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	22100	1	KED
⎢	**Ni**	**60**	**0.486**	ug/L	0.062	12	34	447	12	KED
⎢	**Ni**	**62**	**0.444**	ug/L	0.096	21	8	71	19	KED
⎢	**Cu**	**63**	**0.487**	ug/L	0.021	4	151	1348	3	KED
⎢	**Cu**	**65**	**0.475**	ug/L	0.006	1	80	660	0	KED
⎢	**Zn**	**66**	**6.231**	ug/L	0.271	4	25	2105	3	KED
⎢	**Zn**	**67**	**5.853**	ug/L	0.237	4	3	330	3	KED
⎣	**As**	**75**	**0.160**	ug/L	0.027	17	9	37	13	KED
	Y	**89**		ug/L			238833	238139	1	Standard
	Kr	**83**		ug/L			73	62	8	Standard
⎡>	**In-1**	**115**		ug/L			5713	5637	4	KED
⎢	**Cd**	**111**	**0.115**	ug/L	0.027	23	3	24	16	KED
⎣	**Cd**	**114**	**0.096**	ug/L	0.037	38	4	47	34	KED
⎡>	**Tb**	**159**		ug/L			454345	460398	0	Standard
⎣	**Pb**	**208**	**0.102**	ug/L	0.003	2	255	3879	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:37:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	121657	2	Standard
	Cl	**37**		ug/L			4303531	11146578	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	469769	0	Standard
|	**Cr**	**52**	**0.818**	ug/L	0.024	2	12042	25123	1	Standard
|	**Cr**	**53**	**11.025**	ug/L	0.133	1	429	20705	1	Standard
⌊	**Mn**	**55**	**0.125**	ug/L	0.004	3	1435	4107	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	20513	3	KED
|	**Ni**	**60**	**0.074**	ug/L	0.015	20	34	91	13	KED
|	**Ni**	**62**	**0.158**	ug/L	0.039	24	8	28	20	KED
|	**Cu**	**63**	**-0.011**	ug/L	0.003	28	151	120	3	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.005	71	80	69	6	KED
|	**Zn**	**66**	**0.250**	ug/L	0.010	3	25	101	6	KED
|	**Zn**	**67**	**0.076**	ug/L	0.019	24	3	6	15	KED
⌊	**As**	**75**	**0.039**	ug/L	0.020	52	9	15	21	KED
	Y	**89**		ug/L			238833	227971	0	Standard
	Kr	**83**		ug/L			73	182	15	Standard
⌈>	**In-1**	**115**		ug/L			5713	5513	1	KED
|	**Cd**	**111**	**0.107**	ug/L	0.020	18	3	22	15	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.014	23	4	30	22	KED
⌈>	**Tb**	**159**		ug/L			454345	469330	1	Standard
⌊	**Pb**	**208**	**0.052**	ug/L	0.001	2	255	2147	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:41:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	125283	1	Standard
	Cl	**37**		ug/L			4303531	11167507	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	479232	0	Standard
|	**Cr**	**52**	**20.382**	ug/L	0.261	1	12042	342308	1	Standard
|	**Cr**	**53**	**30.358**	ug/L	0.188	0	429	57390	0	Standard
⌊	**Mn**	**55**	**21.322**	ug/L	0.087	0	1435	465566	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	21754	2	KED
|	**Ni**	**60**	**20.427**	ug/L	0.330	1	34	17069	1	KED
|	**Ni**	**62**	**20.093**	ug/L	0.749	3	8	2793	4	KED
|	**Cu**	**63**	**20.451**	ug/L	0.461	2	151	49514	1	KED
|	**Cu**	**65**	**19.707**	ug/L	0.354	1	80	23663	1	KED
|	**Zn**	**66**	**18.774**	ug/L	0.390	2	25	6194	3	KED
|	**Zn**	**67**	**17.040**	ug/L	0.400	2	3	940	4	KED
⌊	**As**	**75**	**19.579**	ug/L	0.452	2	9	3419	3	KED
	Y	**89**		ug/L			238833	232328	1	Standard
	Kr	**83**		ug/L			73	170	10	Standard
⌈>	**In-1**	**115**		ug/L			5713	5792	1	KED
|	**Cd**	**111**	**19.041**	ug/L	0.331	1	3	3659	2	KED
⌊	**Cd**	**114**	**18.758**	ug/L	0.335	1	4	8763	3	KED
⌈>	**Tb**	**159**		ug/L			454345	463760	0	Standard
⌊	**Pb**	**208**	**0.037**	ug/L	0.001	1	255	1584	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:45:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	36441	0	Standard
	Cl	**37**		ug/L			4303531	5386204	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	474464	1	Standard
⎢	**Cr**	**52**	**182.999**	ug/L	2.617	1	12042	2944830	2	Standard
⎢	**Cr**	**53**	**198.349**	ug/L	2.584	1	429	368823	2	Standard
⎣	**Mn**	**55**	**192.185**	ug/L	1.782	0	1435	4143336	2	Standard
⎡>	**Ge**	**72**		ug/L			21559	21196	1	KED
⎢	**Ni**	**60**	**200.998**	ug/L	4.953	2	34	163351	1	KED
⎢	**Ni**	**62**	**195.213**	ug/L	4.966	2	8	26376	2	KED
⎢	**Cu**	**63**	**198.561**	ug/L	1.872	0	151	467223	2	KED
⎢	**Cu**	**65**	**197.715**	ug/L	2.563	1	80	230605	0	KED
⎢	**Zn**	**66**	**188.946**	ug/L	1.984	1	25	60510	0	KED
⎢	**Zn**	**67**	**189.668**	ug/L	2.154	1	3	10162	1	KED
⎣	**As**	**75**	**197.981**	ug/L	2.984	1	9	33603	0	KED
	Y	**89**		ug/L			238833	229286	0	Standard
	Kr	**83**		ug/L			73	173	9	Standard
⎡>	**In-1**	**115**		ug/L			5713	5540	1	KED
⎢	**Cd**	**111**	**195.800**	ug/L	3.353	1	3	35954	0	KED
⎣	**Cd**	**114**	**194.485**	ug/L	1.511	0	4	86859	1	KED
⎡>	**Tb**	**159**		ug/L			454345	453790	1	Standard
⎣	**Pb**	**208**	**196.909**	ug/L	1.550	0	255	6870306	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:50:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	36335	0	Standard
	Cl	**37**		ug/L			4303531	5367114	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	466810	2	Standard
|	**Cr**	**52**	**262.681**	ug/L	0.893	0	12042	4153654	2	Standard
|	**Cr**	**53**	**287.609**	ug/L	3.161	1	429	525883	1	Standard
⌊	**Mn**	**55**	**277.606**	ug/L	2.938	1	1435	5887964	3	Standard
⌈>	**Ge**	**72**		ug/L			21559	20437	3	KED
|	**Ni**	**60**	**300.658**	ug/L	9.847	3	34	235470	1	KED
|	**Ni**	**62**	**288.403**	ug/L	9.889	3	8	37542	0	KED
|	**Cu**	**63**	**294.769**	ug/L	6.480	2	151	668344	1	KED
|	**Cu**	**65**	**291.962**	ug/L	7.925	2	80	328152	1	KED
|	**Zn**	**66**	**275.073**	ug/L	7.084	2	25	84890	1	KED
|	**Zn**	**67**	**272.649**	ug/L	8.822	3	3	14075	0	KED
⌊	**As**	**75**	**292.289**	ug/L	5.202	1	9	47818	2	KED
	Y	**89**		ug/L			238833	222393	2	Standard
	Kr	**83**		ug/L			73	251	7	Standard
⌈>	**In-1**	**115**		ug/L			5713	5418	1	KED
|	**Cd**	**111**	**284.552**	ug/L	5.501	1	3	51096	0	KED
⌊	**Cd**	**114**	**282.541**	ug/L	7.820	2	4	123371	1	KED
⌈>	**Tb**	**159**		ug/L			454345	447499	2	Standard
⌊	**Pb**	**208**	**286.115**	ug/L	3.153	1	255	9843150	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 15:57:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	32976	1	Standard
	Cl	**37**		ug/L			4303531	4737054	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	467851	1	Standard
⎢	**Cr**	**52**	**-0.021**	ug/L	0.010	48	12042	11772	2	Standard
⎢	**Cr**	**53**	**0.037**	ug/L	0.012	33	429	499	2	Standard
⎣	**Mn**	**55**	**-0.031**	ug/L	0.010	31	1435	789	27	Standard
⎡>	**Ge**	**72**		ug/L			21559	21857	1	KED
⎢	**Ni**	**60**	**-0.028**	ug/L	0.002	5	34	12	9	KED
⎢	**Ni**	**62**	**-0.005**	ug/L	0.049	908	8	7	90	KED
⎢	**Cu**	**63**	**-0.030**	ug/L	0.004	13	151	81	10	KED
⎢	**Cu**	**65**	**-0.040**	ug/L	0.017	41	80	33	58	KED
⎢	**Zn**	**66**	**0.068**	ug/L	0.032	46	25	48	20	KED
⎢	**Zn**	**67**	**0.103**	ug/L	0.039	37	3	8	24	KED
⎣	**As**	**75**	**-0.014**	ug/L	0.011	78	9	6	28	KED
	Y	**89**		ug/L			238833	243506	0	Standard
	Kr	**83**		ug/L			73	64	17	Standard
⎡>	**In-1**	**115**		ug/L			5713	5945	0	KED
⎢	**Cd**	**111**	**0.012**	ug/L	0.008	62	3	6	24	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.008	510	4	3	104	KED
⎡>	**Tb**	**159**		ug/L			454345	458175	0	Standard
⎣	**Pb**	**208**	**0.011**	ug/L	0.011	102	255	638	61	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:03:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	29590	3	Standard
	Cl	**37**		ug/L			4303531	5106569	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	464837	0	Standard
⎢	**Cr**	**52**	**50.473**	ug/L	0.334	0	12042	804484	1	Standard
⎢	**Cr**	**53**	**49.875**	ug/L	0.731	1	429	91184	2	Standard
⎣	**Mn**	**55**	**53.222**	ug/L	0.763	1	1435	1125045	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	21198	0	KED
⎢	**Ni**	**60**	**52.257**	ug/L	1.140	2	34	42503	1	KED
⎢	**Ni**	**62**	**50.364**	ug/L	0.165	0	8	6812	0	KED
⎢	**Cu**	**63**	**51.675**	ug/L	0.278	0	151	121710	0	KED
⎢	**Cu**	**65**	**52.242**	ug/L	0.544	1	80	61003	0	KED
⎢	**Zn**	**66**	**51.087**	ug/L	0.516	1	25	16382	1	KED
⎢	**Zn**	**67**	**51.420**	ug/L	1.783	3	3	2758	4	KED
⎣	**As**	**75**	**50.283**	ug/L	0.555	1	9	8543	0	KED
	Y	**89**		ug/L			238833	231484	2	Standard
	Kr	**83**		ug/L			73	75	10	Standard
⎡>	**In-1**	**115**		ug/L			5713	5760	4	KED
⎢	**Cd**	**111**	**49.710**	ug/L	2.065	4	3	9483	0	KED
⎣	**Cd**	**114**	**50.262**	ug/L	2.485	4	4	23308	0	KED
⎡>	**Tb**	**159**		ug/L			454345	450545	1	Standard
⎣	**Pb**	**208**	**52.207**	ug/L	0.602	1	255	1808595	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:10:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	28571	2	Standard
	Cl	**37**		ug/L			4303531	4574102	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	448501	0	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.012	117	12042	11453	1	Standard
|	**Cr**	**53**	**-0.014**	ug/L	0.012	89	429	389	5	Standard
⌊	**Mn**	**55**	**-0.042**	ug/L	0.001	1	1435	533	2	Standard
⌈>	**Ge**	**72**		ug/L			21559	21386	0	KED
|	**Ni**	**60**	**-0.033**	ug/L	0.011	31	34	7	114	KED
|	**Ni**	**62**	**-0.032**	ug/L	0.028	86	8	3	100	KED
|	**Cu**	**63**	**-0.048**	ug/L	0.003	6	151	36	20	KED
|	**Cu**	**65**	**-0.056**	ug/L	0.002	4	80	14	19	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.020	215	25	22	30	KED
|	**Zn**	**67**	**0.048**	ug/L	0.071	149	3	5	66	KED
⌊	**As**	**75**	**-0.015**	ug/L	0.015	100	9	6	41	KED
	Y	**89**		ug/L			238833	229822	2	Standard
	Kr	**83**		ug/L			73	67	4	Standard
⌈>	**In-1**	**115**		ug/L			5713	5873	2	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.008	2046	3	3	41	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.004	77	4	1	100	KED
⌈>	**Tb**	**159**		ug/L			454345	444600	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.001	33	255	160	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0716-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:16:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30014	40874	3	Standard
	Cl	37		ug/L			4303531	4522777	1	Standard
>	Sc	45		ug/L			465524	459301	1	Standard
	Cr	52	0.060	ug/L	0.005	8	12042	12807	0	Standard
	Cr	53	0.070	ug/L	0.011	16	429	549	3	Standard
	Mn	55	0.128	ug/L	0.003	2	1435	4085	1	Standard
>	Ge	72		ug/L			21559	21538	1	KED
	Ni	60	-0.025	ug/L	0.008	32	34	13	47	KED
	Ni	62	-0.046	ug/L	0.014	30	8	1	100	KED
	Cu	63	0.509	ug/L	0.021	4	151	1368	2	KED
	Cu	65	0.505	ug/L	0.049	9	80	679	8	KED
	Zn	66	0.172	ug/L	0.010	5	25	81	2	KED
	Zn	67	0.222	ug/L	0.064	28	3	15	21	KED
	As	75	-0.002	ug/L	0.007	425	9	8	13	KED
	Y	89		ug/L			238833	236780	0	Standard
	Kr	83		ug/L			73	65	21	Standard
>	In-1	115		ug/L			5713	5750	2	KED
	Cd	111	0.003	ug/L	0.003	91	3	4	13	KED
	Cd	114	-0.000	ug/L	0.003	6570	4	4	28	KED
>	Tb	159		ug/L			454345	446670	1	Standard
	Pb	208	-0.002	ug/L	0.000	13	255	168	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0716-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:21:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30014	41189	0	Standard
	Cl	37		ug/L			4303531	4545244	1	Standard
>	Sc	45		ug/L			465524	455887	1	Standard
	Cr	52	26.700	ug/L	0.460	1	12042	422895	2	Standard
	Cr	53	26.807	ug/L	0.342	1	429	48254	1	Standard
	Mn	55	29.128	ug/L	0.645	2	1435	604366	0	Standard
>	Ge	72		ug/L			21559	21587	1	KED
	Ni	60	26.778	ug/L	0.296	1	34	22198	1	KED
	Ni	62	26.404	ug/L	1.100	4	8	3639	3	KED
	Cu	63	27.015	ug/L	0.638	2	151	64858	1	KED
	Cu	65	27.436	ug/L	0.680	2	80	32659	1	KED
	Zn	66	86.822	ug/L	2.128	2	25	28329	1	KED
	Zn	67	78.859	ug/L	1.323	1	3	4306	2	KED
	As	75	25.829	ug/L	0.587	2	9	4472	1	KED
	Y	89		ug/L			238833	234443	0	Standard
	Kr	83		ug/L			73	69	28	Standard
>	In-1	115		ug/L			5713	5714	1	KED
	Cd	111	26.500	ug/L	0.728	2	3	5020	1	KED
	Cd	114	26.330	ug/L	0.496	1	4	12129	0	KED
>	Tb	159		ug/L			454345	451301	2	Standard
	Pb	208	27.334	ug/L	0.363	1	255	948550	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0718-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:25:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30014	42042	2	Standard
	Cl	37		ug/L			4303531	4456858	1	Standard
⌈>	Sc	45		ug/L			465524	461282	0	Standard
|	Cr	52	0.039	ug/L	0.008	20	12042	12534	1	Standard
|	Cr	53	0.008	ug/L	0.011	129	429	440	4	Standard
⌊	Mn	55	-0.019	ug/L	0.002	10	1435	1025	4	Standard
⌈>	Ge	72		ug/L			21559	21136	0	KED
|	Ni	60	-0.033	ug/L	0.004	12	34	7	43	KED
|	Ni	62	-0.013	ug/L	0.016	125	8	6	34	KED
|	Cu	63	-0.019	ug/L	0.007	36	151	105	15	KED
|	Cu	65	-0.019	ug/L	0.003	13	80	57	5	KED
|	Zn	66	0.155	ug/L	0.042	27	25	74	18	KED
|	Zn	67	0.156	ug/L	0.035	22	3	11	16	KED
⌊	As	75	0.003	ug/L	0.005	184	9	9	10	KED
	Y	89		ug/L			238833	232781	2	Standard
	Kr	83		ug/L			73	57	8	Standard
⌈>	In-1	115		ug/L			5713	5538	1	KED
|	Cd	111	0.004	ug/L	0.016	400	3	4	70	KED
⌊	Cd	114	0.006	ug/L	0.009	140	4	6	59	KED
⌈>	Tb	159		ug/L			454345	452598	1	Standard
⌊	Pb	208	0.007	ug/L	0.001	8	255	502	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0718-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:30:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30014	43948	0	Standard
	Cl	37		ug/L			4303531	5054856	0	Standard
⌈>	Sc	45		ug/L			465524	473393	1	Standard
|	Cr	52	25.821	ug/L	0.634	2	12042	425137	3	Standard
|	Cr	53	26.000	ug/L	0.199	0	429	48614	1	Standard
⌊	Mn	55	27.693	ug/L	0.304	1	1435	596867	1	Standard
⌈>	Ge	72		ug/L			21559	20979	0	KED
|	Ni	60	26.772	ug/L	0.605	2	34	21568	2	KED
|	Ni	62	26.170	ug/L	0.378	1	8	3507	1	KED
|	Cu	63	26.917	ug/L	0.374	1	151	62820	2	KED
|	Cu	65	26.463	ug/L	0.572	2	80	30624	2	KED
|	Zn	66	87.279	ug/L	1.073	1	25	27682	1	KED
|	Zn	67	79.493	ug/L	1.863	2	3	4217	2	KED
⌊	As	75	26.216	ug/L	0.318	1	9	4412	0	KED
	Y	89		ug/L			238833	231842	2	Standard
	Kr	83		ug/L			73	78	11	Standard
⌈>	In-1	115		ug/L			5713	5505	0	KED
|	Cd	111	26.469	ug/L	0.214	0	3	4832	0	KED
⌊	Cd	114	26.909	ug/L	0.390	1	4	11943	0	KED
⌈>	Tb	159		ug/L			454345	463298	2	Standard
⌊	Pb	208	26.626	ug/L	0.342	1	255	948589	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0644-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:34:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	48413	2	Standard
	Cl	**37**		ug/L			4303531	4633916	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	468679	0	Standard
⎢	**Cr**	**52**	**0.294**	ug/L	0.026	8	12042	16782	2	Standard
⎢	**Cr**	**53**	**0.439**	ug/L	0.015	3	429	1238	2	Standard
⎣	**Mn**	**55**	**1.112**	ug/L	0.006	0	1435	25105	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	20436	4	KED
⎢	**Ni**	**60**	**0.066**	ug/L	0.007	10	34	85	7	KED
⎢	**Ni**	**62**	**0.018**	ug/L	0.061	336	8	10	75	KED
⎢	**Cu**	**63**	**1.172**	ug/L	0.095	8	151	2794	3	KED
⎢	**Cu**	**65**	**1.172**	ug/L	0.035	2	80	1393	5	KED
⎢	**Zn**	**66**	**80.084**	ug/L	3.325	4	25	24711	0	KED
⎢	**Zn**	**67**	**69.333**	ug/L	3.073	4	3	3580	2	KED
⎣	**As**	**75**	**0.125**	ug/L	0.019	14	9	29	10	KED
	Y	**89**		ug/L			238833	236784	1	Standard
	Kr	**83**		ug/L			73	62	23	Standard
⎡>	**In-1**	**115**		ug/L			5713	5723	3	KED
⎢	**Cd**	**111**	**0.012**	ug/L	0.010	88	3	5	33	KED
⎣	**Cd**	**114**	**0.007**	ug/L	0.006	96	4	7	43	KED
⎡>	**Tb**	**159**		ug/L			454345	453166	0	Standard
⎣	**Pb**	**208**	**0.289**	ug/L	0.004	1	255	10333	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0644-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:38:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	54910	1	Standard
	Cl	**37**		ug/L			4303531	5226068	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	486283	0	Standard
|	**Cr**	**52**	**0.578**	ug/L	0.020	3	12042	22066	1	Standard
|	**Cr**	**53**	**1.985**	ug/L	0.026	1	429	4226	1	Standard
⌊	**Mn**	**55**	**22.574**	ug/L	0.321	1	1435	500053	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	21625	0	KED
|	**Ni**	**60**	**0.574**	ug/L	0.035	6	34	510	5	KED
|	**Ni**	**62**	**0.691**	ug/L	0.044	6	8	103	5	KED
|	**Cu**	**63**	**3.678**	ug/L	0.075	2	151	8978	1	KED
|	**Cu**	**65**	**3.642**	ug/L	0.068	1	80	4413	1	KED
|	**Zn**	**66**	**359.386**	ug/L	2.008	0	25	117410	0	KED
|	**Zn**	**67**	**320.135**	ug/L	5.934	1	3	17500	2	KED
⌊	**As**	**75**	**0.305**	ug/L	0.049	15	9	62	14	KED
	Y	**89**		ug/L			238833	250544	0	Standard
	Kr	**83**		ug/L			73	57	3	Standard
⌈>	**In-1**	**115**		ug/L			5713	5791	2	KED
|	**Cd**	**111**	**0.044**	ug/L	0.004	9	3	12	4	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.016	41	4	22	31	KED
⌈>	**Tb**	**159**		ug/L			454345	472595	0	Standard
⌊	**Pb**	**208**	**0.375**	ug/L	0.004	1	255	13886	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0641-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:46:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30014	39296	1	Standard
	Cl	37		ug/L			4303531	6375106	0	Standard
>	Sc	45		ug/L			465524	466681	0	Standard
	Cr	52	5.357	ug/L	0.116	2	12042	96503	1	Standard
	Cr	53	11.485	ug/L	0.224	1	429	21408	1	Standard
	Mn	55	1.918	ug/L	0.016	0	1435	42085	0	Standard
>	Ge	72		ug/L			21559	21283	1	KED
	Ni	60	1.205	ug/L	0.057	4	34	1017	3	KED
	Ni	62	1.175	ug/L	0.077	6	8	167	6	KED
	Cu	63	6.240	ug/L	0.002	0	151	14887	1	KED
	Cu	65	6.235	ug/L	0.144	2	80	7379	2	KED
	Zn	66	60.998	ug/L	1.641	2	25	19629	1	KED
	Zn	67	53.598	ug/L	2.394	4	3	2886	4	KED
	As	75	0.077	ug/L	0.004	5	9	22	3	KED
	Y	89		ug/L			238833	232000	0	Standard
	Kr	83		ug/L			73	67	10	Standard
>	In-1	115		ug/L			5713	5524	0	KED
	Cd	111	0.094	ug/L	0.013	13	3	20	11	KED
	Cd	114	0.106	ug/L	0.021	19	4	51	18	KED
>	Tb	159		ug/L			454345	457477	1	Standard
	Pb	208	0.230	ug/L	0.002	0	255	8340	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0643-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:51:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30014	111996	1	Standard
	Cl	37		ug/L			4303531	5268056	0	Standard
>	Sc	45		ug/L			465524	480395	1	Standard
	Cr	52	8.506	ug/L	0.132	1	12042	150410	0	Standard
	Cr	53	8.518	ug/L	0.150	1	429	16458	1	Standard
	Mn	55	149.113	ug/L	3.067	2	1435	3254199	0	Standard
>	Ge	72		ug/L			21559	19216	1	KED
	Ni	60	7.440	ug/L	0.041	0	34	5512	1	KED
	Ni	62	6.988	ug/L	0.341	4	8	862	3	KED
	Cu	63	0.473	ug/L	0.057	12	151	1143	10	KED
	Cu	65	0.413	ug/L	0.018	4	80	508	2	KED
	Zn	66	12.979	ug/L	0.499	3	25	3790	5	KED
	Zn	67	12.519	ug/L	0.547	4	3	610	4	KED
	As	75	0.147	ug/L	0.020	13	9	30	10	KED
	Y	89		ug/L			238833	224727	1	Standard
	Kr	83		ug/L			73	69	14	Standard
>	In-1	115		ug/L			5713	5079	0	KED
	Cd	111	0.106	ug/L	0.034	32	3	20	27	KED
	Cd	114	0.079	ug/L	0.007	9	4	35	8	KED
>	Tb	159		ug/L			454345	416186	0	Standard
	Pb	208	0.035	ug/L	0.001	3	255	1368	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0644-02RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 03, 2023 16:56:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	35647	1	Standard
	Cl	**37**		ug/L			4303531	5159201	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	461479	1	Standard
|	**Cr**	**52**	**0.093**	ug/L	0.007	7	12042	13393	1	Standard
|	**Cr**	**53**	**0.414**	ug/L	0.020	4	429	1173	2	Standard
⌊	**Mn**	**55**	**4.639**	ug/L	0.098	2	1435	98641	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	21051	0	KED
|	**Ni**	**60**	**0.094**	ug/L	0.003	3	34	109	2	KED
|	**Ni**	**62**	**0.115**	ug/L	0.037	32	8	23	20	KED
|	**Cu**	**63**	**0.728**	ug/L	0.035	4	151	1849	3	KED
|	**Cu**	**65**	**0.730**	ug/L	0.045	6	80	923	5	KED
|	**Zn**	**66**	**76.676**	ug/L	1.276	1	25	24403	1	KED
|	**Zn**	**67**	**70.008**	ug/L	1.343	1	3	3727	1	KED
⌊	**As**	**75**	**0.068**	ug/L	0.011	15	9	20	9	KED
	Y	**89**		ug/L			238833	227136	0	Standard
	Kr	**83**		ug/L			73	58	19	Standard
⌈>	**In-1**	**115**		ug/L			5713	5529	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.004	20	3	6	7	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.004	47	4	7	25	KED
⌈>	**Tb**	**159**		ug/L			454345	428390	0	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.003	3	255	3092	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:01:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	33162	0	Standard
	Cl	**37**		ug/L			4303531	5130213	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	458679	3	Standard
⎢	**Cr**	**52**	**-0.032**	ug/L	0.011	34	12042	11378	4	Standard
⎢	**Cr**	**53**	**-0.026**	ug/L	0.007	27	429	377	6	Standard
⎣	**Mn**	**55**	**-0.038**	ug/L	0.002	4	1435	618	2	Standard
⎡>	**Ge**	**72**		ug/L			21559	20750	0	KED
⎢	**Ni**	**60**	**-0.024**	ug/L	0.005	20	34	14	27	KED
⎢	**Ni**	**62**	**-0.007**	ug/L	0.017	230	8	6	31	KED
⎢	**Cu**	**63**	**0.183**	ug/L	0.014	7	151	567	5	KED
⎢	**Cu**	**65**	**0.210**	ug/L	0.034	16	80	317	12	KED
⎢	**Zn**	**66**	**0.183**	ug/L	0.053	28	25	81	20	KED
⎢	**Zn**	**67**	**0.232**	ug/L	0.158	68	3	15	54	KED
⎣	**As**	**75**	**-0.024**	ug/L	0.012	48	9	4	39	KED
	Y	**89**		ug/L			238833	233086	1	Standard
	Kr	**83**		ug/L			73	49	3	Standard
⎡>	**In-1**	**115**		ug/L			5713	5531	1	KED
⎢	**Cd**	**111**	**0.004**	ug/L	0.008	200	3	4	35	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.002	38	4	1	98	KED
⎡>	**Tb**	**159**		ug/L			454345	434704	1	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	41	255	205	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:06:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	30448	2	Standard
	Cl	**37**		ug/L			4303531	5291685	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	459482	1	Standard
⎢	**Cr**	**52**	**50.417**	ug/L	0.117	0	12042	794340	1	Standard
⎢	**Cr**	**53**	**51.159**	ug/L	1.473	2	429	92442	3	Standard
⎣	**Mn**	**55**	**54.330**	ug/L	0.225	0	1435	1135159	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	21312	2	KED
⎢	**Ni**	**60**	**51.105**	ug/L	0.943	1	34	41784	0	KED
⎢	**Ni**	**62**	**50.013**	ug/L	1.969	3	8	6800	4	KED
⎢	**Cu**	**63**	**50.911**	ug/L	1.497	2	151	120511	1	KED
⎢	**Cu**	**65**	**51.368**	ug/L	1.640	3	80	60282	1	KED
⎢	**Zn**	**66**	**48.979**	ug/L	1.082	2	25	15793	3	KED
⎢	**Zn**	**67**	**50.301**	ug/L	0.763	1	3	2712	1	KED
⎣	**As**	**75**	**49.476**	ug/L	0.735	1	9	8449	0	KED
	Y	**89**		ug/L			238833	233146	1	Standard
	Kr	**83**		ug/L			73	83	9	Standard
⎡>	**In-1**	**115**		ug/L			5713	5421	1	KED
⎢	**Cd**	**111**	**50.817**	ug/L	0.320	0	3	9134	0	KED
⎣	**Cd**	**114**	**50.609**	ug/L	0.437	0	4	22120	0	KED
⎡>	**Tb**	**159**		ug/L			454345	449725	2	Standard
⎣	**Pb**	**208**	**50.934**	ug/L	0.135	0	255	1761488	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:17:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	29633	1	Standard
	Cl	**37**		ug/L			4303531	4877913	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	450025	1	Standard
|	**Cr**	**52**	**-0.033**	ug/L	0.002	7	12042	11135	2	Standard
|	**Cr**	**53**	**-0.046**	ug/L	0.010	21	429	334	5	Standard
⌊	**Mn**	**55**	**-0.045**	ug/L	0.001	2	1435	474	4	Standard
⌈>	**Ge**	**72**		ug/L			21559	20774	0	KED
|	**Ni**	**60**	**-0.039**	ug/L	0.003	7	34	2	86	KED
|	**Ni**	**62**	**-0.036**	ug/L	0.008	22	8	3	34	KED
|	**Cu**	**63**	**-0.051**	ug/L	0.004	7	151	29	32	KED
|	**Cu**	**65**	**-0.049**	ug/L	0.002	3	80	21	10	KED
|	**Zn**	**66**	**-0.035**	ug/L	0.011	30	25	13	24	KED
|	**Zn**	**67**	**-0.022**	ug/L	0.037	166	3	1	100	KED
⌊	**As**	**75**	**-0.014**	ug/L	0.022	157	9	6	56	KED
	Y	**89**		ug/L			238833	229569	2	Standard
	Kr	**83**		ug/L			73	68	34	Standard
⌈>	**In-1**	**115**		ug/L			5713	5534	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.016	2362	3	3	83	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.005	217	4	4	42	KED
⌈>	**Tb**	**159**		ug/L			454345	443132	1	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.000	3	255	90	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0699-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:26:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	44349	4	Standard
	Cl	**37**		ug/L			4303531	4934064	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	479536	1	Standard
|	**Cr**	**52**	**0.088**	ug/L	0.015	17	12042	13831	2	Standard
|	**Cr**	**53**	**0.037**	ug/L	0.002	5	429	512	1	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.002	40	1435	1598	2	Standard
⌈>	**Ge**	**72**		ug/L			21559	21145	0	KED
|	**Ni**	**60**	**-0.031**	ug/L	0.004	11	34	8	32	KED
|	**Ni**	**62**	**-0.022**	ug/L	0.008	37	8	5	21	KED
|	**Cu**	**63**	**0.013**	ug/L	0.010	76	151	178	11	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.016	1096	80	77	24	KED
|	**Zn**	**66**	**0.169**	ug/L	0.039	22	25	78	14	KED
|	**Zn**	**67**	**0.227**	ug/L	0.059	26	3	15	21	KED
⌊	**As**	**75**	**-0.022**	ug/L	0.008	34	9	5	24	KED
	Y	**89**		ug/L			238833	237820	1	Standard
	Kr	**83**		ug/L			73	56	19	Standard
⌈>	**In-1**	**115**		ug/L			5713	5762	0	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.008	113	3	2	65	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	12	4	3	2	KED
⌈>	**Tb**	**159**		ug/L			454345	448570	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	6	255	180	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0699-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:30:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	46023	2	Standard
	Cl	**37**		ug/L			4303531	4950239	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	478736	1	Standard
|	**Cr**	**52**	**25.433**	ug/L	0.369	1	12042	423555	0	Standard
|	**Cr**	**53**	**25.215**	ug/L	0.115	0	429	47691	1	Standard
⌊	**Mn**	**55**	**27.219**	ug/L	0.489	1	1435	593192	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	21220	1	KED
|	**Ni**	**60**	**27.068**	ug/L	0.465	1	34	22055	1	KED
|	**Ni**	**62**	**26.409**	ug/L	0.764	2	8	3578	1	KED
|	**Cu**	**63**	**27.498**	ug/L	0.363	1	151	64897	0	KED
|	**Cu**	**65**	**26.983**	ug/L	0.333	1	80	31577	0	KED
|	**Zn**	**66**	**81.405**	ug/L	0.966	1	25	26114	0	KED
|	**Zn**	**67**	**76.154**	ug/L	2.720	3	3	4086	3	KED
⌊	**As**	**75**	**24.707**	ug/L	0.194	0	9	4206	1	KED
	Y	**89**		ug/L			238833	235248	0	Standard
	Kr	**83**		ug/L			73	80	14	Standard
⌈>	**In-1**	**115**		ug/L			5713	5671	3	KED
|	**Cd**	**111**	**25.081**	ug/L	1.295	5	3	4712	1	KED
⌊	**Cd**	**114**	**25.955**	ug/L	0.531	2	4	11864	1	KED
⌈>	**Tb**	**159**		ug/L			454345	446902	0	Standard
⌊	**Pb**	**208**	**27.619**	ug/L	0.140	0	255	949231	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0241-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:34:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	54360	3	Standard
	Cl	**37**		ug/L			4303531	7694465	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	510058	2	Standard
|	**Cr**	**52**	**5.216**	ug/L	0.019	0	12042	103051	2	Standard
|	**Cr**	**53**	**9.519**	ug/L	0.304	3	429	19465	0	Standard
⌊	**Mn**	**55**	**79.108**	ug/L	1.394	1	1435	1833665	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	19492	0	KED
|	**Ni**	**60**	**26.259**	ug/L	0.742	2	34	19657	3	KED
|	**Ni**	**62**	**26.612**	ug/L	0.605	2	8	3313	2	KED
|	**Cu**	**63**	**34.527**	ug/L	0.467	1	151	74823	1	KED
|	**Cu**	**65**	**34.412**	ug/L	0.217	0	80	36974	0	KED
|	**Zn**	**66**	**16.624**	ug/L	0.350	2	25	4917	1	KED
|	**Zn**	**67**	**15.591**	ug/L	1.366	8	3	770	8	KED
⌊	**As**	**75**	**3.602**	ug/L	0.088	2	9	570	2	KED
	Y	**89**		ug/L			238833	225178	1	Standard
	Kr	**83**		ug/L			73	97	21	Standard
⌈>	**In-1**	**115**		ug/L			5713	5095	2	KED
|	**Cd**	**111**	**0.057**	ug/L	0.007	12	3	12	11	KED
⌊	**Cd**	**114**	**0.029**	ug/L	0.012	42	4	15	31	KED
⌈>	**Tb**	**159**		ug/L			454345	442170	0	Standard
⌊	**Pb**	**208**	**1.565**	ug/L	0.009	0	255	53438	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0249-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:40:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	55263	1	Standard
	Cl	**37**		ug/L			4303531	11388133	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	480949	0	Standard
|	**Cr**	**52**	**7.409**	ug/L	0.078	1	12042	132790	0	Standard
|	**Cr**	**53**	**17.257**	ug/L	0.372	2	429	32930	1	Standard
⌊	**Mn**	**55**	**78.874**	ug/L	0.442	0	1435	1724357	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	19146	2	KED
|	**Ni**	**60**	**7.046**	ug/L	0.034	0	34	5203	2	KED
|	**Ni**	**62**	**7.125**	ug/L	0.331	4	8	876	2	KED
|	**Cu**	**63**	**14.040**	ug/L	0.529	3	151	29950	1	KED
|	**Cu**	**65**	**14.438**	ug/L	0.338	2	80	15274	0	KED
|	**Zn**	**66**	**39.556**	ug/L	1.034	2	25	11457	0	KED
|	**Zn**	**67**	**40.041**	ug/L	0.935	2	3	1939	1	KED
⌊	**As**	**75**	**0.673**	ug/L	0.009	1	9	111	2	KED
	Y	**89**		ug/L			238833	232120	1	Standard
	Kr	**83**		ug/L			73	162	2	Standard
⌈>	**In-1**	**115**		ug/L			5713	5123	2	KED
|	**Cd**	**111**	**0.076**	ug/L	0.049	64	3	15	48	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.023	51	4	21	40	KED
⌈>	**Tb**	**159**		ug/L			454345	456953	1	Standard
⌊	**Pb**	**208**	**4.264**	ug/L	0.101	2	255	150046	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0249-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:45:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	50125	1	Standard
	Cl	**37**		ug/L			4303531	9592200	3	Standard
⌈>	**Sc**	**45**		ug/L			465524	476868	2	Standard
|	**Cr**	**52**	**8.333**	ug/L	0.150	1	12042	146518	0	Standard
|	**Cr**	**53**	**15.447**	ug/L	0.469	3	429	29260	0	Standard
⌊	**Mn**	**55**	**103.624**	ug/L	3.523	3	1435	2244657	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19787	1	KED
|	**Ni**	**60**	**3.607**	ug/L	0.158	4	34	2767	3	KED
|	**Ni**	**62**	**3.750**	ug/L	0.116	3	8	480	4	KED
|	**Cu**	**63**	**19.234**	ug/L	0.376	1	151	42367	1	KED
|	**Cu**	**65**	**19.139**	ug/L	0.427	2	80	20912	3	KED
|	**Zn**	**66**	**97.815**	ug/L	0.418	0	25	29255	1	KED
|	**Zn**	**67**	**94.471**	ug/L	1.563	1	3	4726	0	KED
⌊	**As**	**75**	**1.304**	ug/L	0.053	4	9	214	3	KED
	Y	**89**		ug/L			238833	235234	1	Standard
	Kr	**83**		ug/L			73	132	16	Standard
⌈>	**In-1**	**115**		ug/L			5713	5198	1	KED
|	**Cd**	**111**	**0.202**	ug/L	0.042	20	3	38	20	KED
⌊	**Cd**	**114**	**0.222**	ug/L	0.022	9	4	96	8	KED
⌈>	**Tb**	**159**		ug/L			454345	451468	2	Standard
⌊	**Pb**	**208**	**18.715**	ug/L	0.311	1	255	649718	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0525-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 17:51:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30014	227866	1	Standard
	Cl	37		ug/L			4303531	5393358	0	Standard
>	Sc	45		ug/L			465524	485025	0	Standard
	Cr	52	1.967	ug/L	0.052	2	12042	44770	1	Standard
	Cr	53	1.646	ug/L	0.020	1	429	3571	1	Standard
	Mn	55	9.668	ug/L	0.016	0	1435	214469	0	Standard
>	Ge	72		ug/L			21559	20064	2	KED
	Ni	60	2.990	ug/L	0.028	0	34	2332	3	KED
	Ni	62	2.997	ug/L	0.247	8	8	390	5	KED
	Cu	63	6.738	ug/L	0.003	0	151	15144	2	KED
	Cu	65	6.652	ug/L	0.159	2	80	7415	0	KED
	Zn	66	2.938	ug/L	0.218	7	25	913	4	KED
	Zn	67	3.678	ug/L	0.286	7	3	189	5	KED
	As	75	0.060	ug/L	0.022	36	9	18	21	KED
	Y	89		ug/L			238833	234342	1	Standard
	Kr	83		ug/L			73	60	6	Standard
>	In-1	115		ug/L			5713	5196	1	KED
	Cd	111	0.079	ug/L	0.008	10	3	16	6	KED
	Cd	114	0.068	ug/L	0.014	20	4	32	18	KED
>	Tb	159		ug/L			454345	428562	1	Standard
	Pb	208	0.023	ug/L	0.001	4	255	1010	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0562-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:06:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	156667	1	Standard
	Cl	**37**		ug/L			4303531	5153814	1	Standard
>	**Sc**	**45**		ug/L			465524	452276	1	Standard
	Cr	**52**	**36.146**	ug/L	0.295	0	12042	563834	0	Standard
	Cr	**53**	**35.653**	ug/L	0.305	0	429	63531	0	Standard
	Mn	**55**	**26.689**	ug/L	0.637	2	1435	549524	1	Standard
>	**Ge**	**72**		ug/L			21559	16937	1	KED
	Ni	**60**	**9.098**	ug/L	0.136	1	34	5935	2	KED
	Ni	**62**	**8.742**	ug/L	0.185	2	8	949	0	KED
	Cu	**63**	**1.471**	ug/L	0.069	4	151	2884	3	KED
	Cu	**65**	**1.481**	ug/L	0.051	3	80	1443	4	KED
	Zn	**66**	**19.227**	ug/L	0.270	1	25	4937	0	KED
	Zn	**67**	**17.086**	ug/L	1.150	6	3	733	5	KED
	As	**75**	**0.310**	ug/L	0.038	12	9	49	8	KED
	Y	**89**		ug/L			238833	211570	1	Standard
	Kr	**83**		ug/L			73	93	8	Standard
>	**In-1**	**115**		ug/L			5713	4595	1	KED
	Cd	**111**	**0.312**	ug/L	0.111	35	3	50	32	KED
	Cd	**114**	**0.233**	ug/L	0.028	11	4	89	10	KED
>	**Tb**	**159**		ug/L			454345	401364	0	Standard
	Pb	**208**	**0.095**	ug/L	0.002	1	255	3157	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0563-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:10:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	274462	1	Standard
	Cl	**37**		ug/L			4303531	5196778	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	478554	1	Standard
⎢	**Cr**	**52**	**14.258**	ug/L	0.118	0	12042	242836	1	Standard
⎢	**Cr**	**53**	**13.656**	ug/L	0.125	0	429	26023	2	Standard
⎣	**Mn**	**55**	**33.544**	ug/L	0.224	0	1435	730509	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	19431	4	KED
⎢	**Ni**	**60**	**8.704**	ug/L	0.269	3	34	6511	1	KED
⎢	**Ni**	**62**	**8.469**	ug/L	0.901	10	8	1053	6	KED
⎢	**Cu**	**63**	**0.873**	ug/L	0.025	2	151	2017	1	KED
⎢	**Cu**	**65**	**0.834**	ug/L	0.049	5	80	963	6	KED
⎢	**Zn**	**66**	**38.408**	ug/L	2.274	5	25	11278	2	KED
⎢	**Zn**	**67**	**34.757**	ug/L	1.019	2	3	1708	2	KED
⎣	**As**	**75**	**0.161**	ug/L	0.016	10	9	33	4	KED
	Y	**89**		ug/L			238833	234782	2	Standard
	Kr	**83**		ug/L			73	80	21	Standard
⎡>	**In-1**	**115**		ug/L			5713	5106	2	KED
⎢	**Cd**	**111**	**0.216**	ug/L	0.018	8	3	39	8	KED
⎣	**Cd**	**114**	**0.214**	ug/L	0.016	7	4	91	9	KED
⎡>	**Tb**	**159**		ug/L			454345	413412	2	Standard
⎣	**Pb**	**208**	**0.051**	ug/L	0.001	2	255	1844	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0562-01RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:19:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	84033	0	Standard
	Cl	**37**		ug/L			4303531	5108422	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	477739	2	Standard
⎢	**Cr**	**52**	**15.103**	ug/L	0.267	1	12042	255995	0	Standard
⎢	**Cr**	**53**	**15.101**	ug/L	0.271	1	429	28672	0	Standard
⎣	**Mn**	**55**	**11.431**	ug/L	0.305	2	1435	249415	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	18151	0	KED
⎢	**Ni**	**60**	**3.625**	ug/L	0.019	0	34	2551	0	KED
⎢	**Ni**	**62**	**3.580**	ug/L	0.211	5	8	420	5	KED
⎢	**Cu**	**63**	**0.593**	ug/L	0.017	2	151	1321	2	KED
⎢	**Cu**	**65**	**0.607**	ug/L	0.056	9	80	673	7	KED
⎢	**Zn**	**66**	**9.138**	ug/L	0.586	6	25	2525	5	KED
⎢	**Zn**	**67**	**8.842**	ug/L	0.821	9	3	408	9	KED
⎣	**As**	**75**	**0.120**	ug/L	0.011	9	9	25	6	KED
	Y	**89**		ug/L			238833	230433	1	Standard
	Kr	**83**		ug/L			73	66	10	Standard
⎡>	**In-1**	**115**		ug/L			5713	4852	2	KED
⎢	**Cd**	**111**	**0.116**	ug/L	0.015	13	3	21	9	KED
⎣	**Cd**	**114**	**0.152**	ug/L	0.028	18	4	62	16	KED
⎡>	**Tb**	**159**		ug/L			454345	413566	0	Standard
⎣	**Pb**	**208**	**0.043**	ug/L	0.000	0	255	1602	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:23:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	33447	3	Standard
	Cl	**37**		ug/L			4303531	5097490	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	453246	0	Standard
⎢	**Cr**	**52**	**-0.005**	ug/L	0.007	143	12042	11647	1	Standard
⎢	**Cr**	**53**	**-0.035**	ug/L	0.005	14	429	355	2	Standard
⎣	**Mn**	**55**	**-0.044**	ug/L	0.001	1	1435	494	3	Standard
⎡>	**Ge**	**72**		ug/L			21559	19605	3	KED
⎢	**Ni**	**60**	**-0.021**	ug/L	0.003	14	34	15	13	KED
⎢	**Ni**	**62**	**-0.024**	ug/L	0.018	76	8	4	49	KED
⎢	**Cu**	**63**	**0.209**	ug/L	0.014	6	151	593	5	KED
⎢	**Cu**	**65**	**0.214**	ug/L	0.030	13	80	302	6	KED
⎢	**Zn**	**66**	**0.209**	ug/L	0.071	34	25	84	20	KED
⎢	**Zn**	**67**	**0.195**	ug/L	0.135	69	3	12	56	KED
⎣	**As**	**75**	**-0.023**	ug/L	0.011	49	9	4	40	KED
	Y	**89**		ug/L			238833	228733	1	Standard
	Kr	**83**		ug/L			73	54	10	Standard
⎡>	**In-1**	**115**		ug/L			5713	5245	1	KED
⎢	**Cd**	**111**	**0.009**	ug/L	0.000	4	3	4	0	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.000	40	4	3	1	KED
⎡>	**Tb**	**159**		ug/L			454345	415031	1	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.001	46	255	173	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:28:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	30791	0	Standard
	Cl	**37**		ug/L			4303531	5316349	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	464159	0	Standard
⎢	**Cr**	**52**	**49.334**	ug/L	0.350	0	12042	785406	0	Standard
⎢	**Cr**	**53**	**49.947**	ug/L	0.626	1	429	91179	1	Standard
⎣	**Mn**	**55**	**53.235**	ug/L	0.377	0	1435	1123671	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	20232	1	KED
⎢	**Ni**	**60**	**50.980**	ug/L	0.555	1	34	39583	2	KED
⎢	**Ni**	**62**	**51.805**	ug/L	1.334	2	8	6688	3	KED
⎢	**Cu**	**63**	**52.131**	ug/L	1.299	2	151	117195	3	KED
⎢	**Cu**	**65**	**52.831**	ug/L	0.940	1	80	58883	2	KED
⎢	**Zn**	**66**	**51.762**	ug/L	1.846	3	25	15844	4	KED
⎢	**Zn**	**67**	**52.259**	ug/L	1.692	3	3	2675	4	KED
⎣	**As**	**75**	**50.433**	ug/L	0.624	1	9	8178	2	KED
	Y	**89**		ug/L			238833	232093	1	Standard
	Kr	**83**		ug/L			73	83	26	Standard
⎡>	**In-1**	**115**		ug/L			5713	5423	2	KED
⎢	**Cd**	**111**	**50.553**	ug/L	1.072	2	3	9087	1	KED
⎣	**Cd**	**114**	**50.345**	ug/L	1.425	2	4	22002	0	KED
⎡>	**Tb**	**159**		ug/L			454345	432969	0	Standard
⎣	**Pb**	**208**	**53.090**	ug/L	0.555	1	255	1767502	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:35:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	29773	1	Standard
	Cl	**37**		ug/L			4303531	5032031	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	446759	2	Standard
⎢	**Cr**	**52**	**-0.030**	ug/L	0.016	54	12042	11104	0	Standard
⎢	**Cr**	**53**	**-0.053**	ug/L	0.012	22	429	319	8	Standard
⎣	**Mn**	**55**	**-0.045**	ug/L	0.001	1	1435	472	6	Standard
⎡>	**Ge**	**72**		ug/L			21559	19952	1	KED
⎢	**Ni**	**60**	**-0.034**	ug/L	0.001	4	34	6	17	KED
⎢	**Ni**	**62**	**-0.020**	ug/L	0.009	43	8	5	21	KED
⎢	**Cu**	**63**	**-0.050**	ug/L	0.002	4	151	30	16	KED
⎢	**Cu**	**65**	**-0.052**	ug/L	0.003	6	80	17	19	KED
⎢	**Zn**	**66**	**0.006**	ug/L	0.013	217	25	25	17	KED
⎢	**Zn**	**67**	**0.030**	ug/L	0.021	72	3	4	24	KED
⎣	**As**	**75**	**-0.014**	ug/L	0.009	69	9	6	22	KED
	Y	**89**		ug/L			238833	226210	1	Standard
	Kr	**83**		ug/L			73	53	26	Standard
⎡>	**In-1**	**115**		ug/L			5713	5130	2	KED
⎢	**Cd**	**111**	**0.002**	ug/L	0.006	295	3	3	31	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.007	218	4	2	119	KED
⎡>	**Tb**	**159**		ug/L			454345	424453	1	Standard
⎣	**Pb**	**208**	**-0.004**	ug/L	0.001	11	255	96	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0716-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:46:18

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	38313	1	Standard
	Cl	**37**		ug/L			4303531	4897550	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	457305	0	Standard
|	**Cr**	**52**	**0.094**	ug/L	0.014	14	12042	13287	1	Standard
|	**Cr**	**53**	**0.043**	ug/L	0.004	10	429	498	1	Standard
⌊	**Mn**	**55**	**0.134**	ug/L	0.002	1	1435	4185	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	20368	0	KED
|	**Ni**	**60**	**-0.027**	ug/L	0.006	21	34	12	36	KED
|	**Ni**	**62**	**-0.026**	ug/L	0.017	65	8	4	49	KED
|	**Cu**	**63**	**0.556**	ug/L	0.007	1	151	1399	0	KED
|	**Cu**	**65**	**0.563**	ug/L	0.012	2	80	707	1	KED
|	**Zn**	**66**	**0.252**	ug/L	0.039	15	25	101	11	KED
|	**Zn**	**67**	**0.189**	ug/L	0.079	41	3	12	31	KED
⌊	**As**	**75**	**-0.015**	ug/L	0.010	64	9	6	26	KED
	Y	**89**		ug/L			238833	234720	0	Standard
	Kr	**83**		ug/L			73	56	17	Standard
⌈>	**In-1**	**115**		ug/L			5713	5305	0	KED
|	**Cd**	**111**	**0.009**	ug/L	0.006	64	3	4	20	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	95	4	4	20	KED
⌈>	**Tb**	**159**		ug/L			454345	432599	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	13	255	150	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0559-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:50:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	40928	3	Standard
	Cl	**37**		ug/L			4303531	4766114	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	468349	2	Standard
⎢	**Cr**	**52**	**0.076**	ug/L	0.023	29	12042	13304	0	Standard
⎢	**Cr**	**53**	**0.063**	ug/L	0.007	11	429	547	4	Standard
⎣	**Mn**	**55**	**-0.007**	ug/L	0.000	4	1435	1291	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	20449	3	KED
⎢	**Ni**	**60**	**-0.035**	ug/L	0.008	21	34	5	100	KED
⎢	**Ni**	**62**	**-0.036**	ug/L	0.022	59	8	3	91	KED
⎢	**Cu**	**63**	**-0.033**	ug/L	0.002	5	151	69	5	KED
⎢	**Cu**	**65**	**-0.038**	ug/L	0.005	13	80	33	17	KED
⎢	**Zn**	**66**	**0.039**	ug/L	0.024	60	25	36	21	KED
⎢	**Zn**	**67**	**0.041**	ug/L	0.077	190	3	5	78	KED
⎣	**As**	**75**	**-0.023**	ug/L	0.005	22	9	4	14	KED
	Y	**89**		ug/L			238833	230438	1	Standard
	Kr	**83**		ug/L			73	57	29	Standard
⎡>	**In-1**	**115**		ug/L			5713	5629	4	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.008	691	3	3	45	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.007	246	4	5	63	KED
⎡>	**Tb**	**159**		ug/L			454345	429692	1	Standard
⎣	**Pb**	**208**	**0.007**	ug/L	0.001	12	255	469	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0559-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:55:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	42964	0	Standard
	Cl	**37**		ug/L			4303531	4812885	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	465752	1	Standard
|	**Cr**	**52**	**25.619**	ug/L	0.320	1	12042	415047	1	Standard
|	**Cr**	**53**	**25.663**	ug/L	0.294	1	429	47219	2	Standard
⌊	**Mn**	**55**	**28.130**	ug/L	0.653	2	1435	596399	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	20859	1	KED
|	**Ni**	**60**	**26.537**	ug/L	0.609	2	34	21251	0	KED
|	**Ni**	**62**	**26.705**	ug/L	0.205	0	8	3557	1	KED
|	**Cu**	**63**	**27.060**	ug/L	0.252	0	151	62780	1	KED
|	**Cu**	**65**	**26.770**	ug/L	0.345	1	80	30794	0	KED
|	**Zn**	**66**	**83.112**	ug/L	1.455	1	25	26204	0	KED
|	**Zn**	**67**	**78.595**	ug/L	2.314	2	3	4145	1	KED
⌊	**As**	**75**	**25.312**	ug/L	0.171	0	9	4235	0	KED
	Y	**89**		ug/L			238833	233118	1	Standard
	Kr	**83**		ug/L			73	76	20	Standard
⌈>	**In-1**	**115**		ug/L			5713	5395	1	KED
|	**Cd**	**111**	**26.752**	ug/L	0.137	0	3	4787	1	KED
⌊	**Cd**	**114**	**26.974**	ug/L	0.225	0	4	11735	0	KED
⌈>	**Tb**	**159**		ug/L			454345	440062	0	Standard
⌊	**Pb**	**208**	**27.619**	ug/L	0.107	0	255	934767	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0560-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 18:59:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	41625	3	Standard
	Cl	**37**		ug/L			4303531	4758673	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	475107	1	Standard
|	**Cr**	**52**	**0.109**	ug/L	0.004	3	12042	14034	0	Standard
|	**Cr**	**53**	**0.084**	ug/L	0.017	20	429	594	6	Standard
⌊	**Mn**	**55**	**0.050**	ug/L	0.002	3	1435	2550	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	20403	1	KED
|	**Ni**	**60**	**-0.013**	ug/L	0.011	82	34	22	38	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.022	332	8	6	41	KED
|	**Cu**	**63**	**0.030**	ug/L	0.018	60	151	212	19	KED
|	**Cu**	**65**	**0.030**	ug/L	0.022	73	80	109	22	KED
|	**Zn**	**66**	**0.615**	ug/L	0.075	12	25	213	10	KED
|	**Zn**	**67**	**0.460**	ug/L	0.105	22	3	26	18	KED
⌊	**As**	**75**	**-0.012**	ug/L	0.006	50	9	6	14	KED
	Y	**89**		ug/L			238833	234190	1	Standard
	Kr	**83**		ug/L			73	63	17	Standard
⌈>	**In-1**	**115**		ug/L			5713	5475	3	KED
|	**Cd**	**111**	**0.006**	ug/L	0.009	139	3	4	32	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	101	4	2	34	KED
⌈>	**Tb**	**159**		ug/L			454345	445296	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	23	255	384	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0560-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:03:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	43905	1	Standard
	Cl	**37**		ug/L			4303531	4715450	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	468065	0	Standard
⎢	**Cr**	**52**	**25.647**	ug/L	0.447	1	12042	417568	1	Standard
⎢	**Cr**	**53**	**25.441**	ug/L	0.155	0	429	47045	0	Standard
⎣	**Mn**	**55**	**27.415**	ug/L	0.342	1	1435	584252	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	20396	1	KED
⎢	**Ni**	**60**	**26.649**	ug/L	0.946	3	34	20865	2	KED
⎢	**Ni**	**62**	**26.236**	ug/L	1.199	4	8	3416	2	KED
⎢	**Cu**	**63**	**27.139**	ug/L	0.621	2	151	61560	1	KED
⎢	**Cu**	**65**	**27.223**	ug/L	0.617	2	80	30614	0	KED
⎢	**Zn**	**66**	**82.252**	ug/L	2.525	3	25	25355	1	KED
⎢	**Zn**	**67**	**74.194**	ug/L	0.901	1	3	3827	1	KED
⎣	**As**	**75**	**25.162**	ug/L	0.477	1	9	4117	1	KED
	Y	**89**		ug/L			238833	232193	2	Standard
	Kr	**83**		ug/L			73	71	18	Standard
⎡>	**In-1**	**115**		ug/L			5713	5593	1	KED
⎢	**Cd**	**111**	**24.875**	ug/L	0.325	1	3	4614	1	KED
⎣	**Cd**	**114**	**25.309**	ug/L	0.917	3	4	11410	1	KED
⎡>	**Tb**	**159**		ug/L			454345	431821	1	Standard
⎣	**Pb**	**208**	**27.820**	ug/L	0.143	0	255	923865	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0162-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:08:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	44555	1	Standard
	Cl	**37**		ug/L			4303531	4986079	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	500763	0	Standard
|	**Cr**	**52**	**0.121**	ug/L	0.010	8	12042	14995	1	Standard
|	**Cr**	**53**	**0.882**	ug/L	0.004	0	429	2190	0	Standard
⌊	**Mn**	**55**	**8.360**	ug/L	0.009	0	1435	191678	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	20930	1	KED
|	**Ni**	**60**	**0.217**	ug/L	0.003	1	34	208	0	KED
|	**Ni**	**62**	**0.225**	ug/L	0.069	30	8	38	25	KED
|	**Cu**	**63**	**0.719**	ug/L	0.044	6	151	1817	5	KED
|	**Cu**	**65**	**0.687**	ug/L	0.002	0	80	869	0	KED
|	**Zn**	**66**	**40.147**	ug/L	1.058	2	25	12714	1	KED
|	**Zn**	**67**	**36.440**	ug/L	1.349	3	3	1930	3	KED
⌊	**As**	**75**	**0.268**	ug/L	0.005	2	9	53	2	KED
	Y	**89**		ug/L			238833	230745	0	Standard
	Kr	**83**		ug/L			73	52	9	Standard
⌈>	**In-1**	**115**		ug/L			5713	5424	1	KED
|	**Cd**	**111**	**0.017**	ug/L	0.008	48	3	6	22	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.013	60	4	13	43	KED
⌈>	**Tb**	**159**		ug/L			454345	444907	1	Standard
⌊	**Pb**	**208**	**0.147**	ug/L	0.001	0	255	5273	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0163-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:12:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	46590	1	Standard
	Cl	**37**		ug/L			4303531	4780607	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	458436	0	Standard
|	**Cr**	**52**	**0.405**	ug/L	0.006	1	12042	18131	0	Standard
|	**Cr**	**53**	**0.371**	ug/L	0.009	2	429	1088	1	Standard
⌊	**Mn**	**55**	**1.973**	ug/L	0.046	2	1435	42502	2	Standard
⌈>	**Ge**	**72**		ug/L			21559	20275	1	KED
|	**Ni**	**60**	**0.141**	ug/L	0.004	3	34	142	2	KED
|	**Ni**	**62**	**0.171**	ug/L	0.076	44	8	29	32	KED
|	**Cu**	**63**	**1.786**	ug/L	0.047	2	151	4161	3	KED
|	**Cu**	**65**	**1.785**	ug/L	0.039	2	80	2066	1	KED
|	**Zn**	**66**	**69.680**	ug/L	1.385	1	25	21360	1	KED
|	**Zn**	**67**	**63.327**	ug/L	0.559	0	3	3247	1	KED
⌊	**As**	**75**	**0.087**	ug/L	0.019	21	9	22	14	KED
	Y	**89**		ug/L			238833	236930	2	Standard
	Kr	**83**		ug/L			73	55	3	Standard
⌈>	**In-1**	**115**		ug/L			5713	5435	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.024	45	3	12	34	KED
⌊	**Cd**	**114**	**0.055**	ug/L	0.005	8	4	28	6	KED
⌈>	**Tb**	**159**		ug/L			454345	444041	0	Standard
⌊	**Pb**	**208**	**0.412**	ug/L	0.005	1	255	14308	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0163-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:16:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	44168	2	Standard
	Cl	**37**		ug/L			4303531	4733089	1	Standard
⎡>	**Sc**	**45**		ug/L			465524	462574	0	Standard
⎢	**Cr**	**52**	**0.268**	ug/L	0.029	10	12042	16145	2	Standard
⎢	**Cr**	**53**	**0.233**	ug/L	0.013	5	429	848	3	Standard
⎣	**Mn**	**55**	**1.298**	ug/L	0.025	1	1435	28697	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	21053	2	KED
⎢	**Ni**	**60**	**0.127**	ug/L	0.029	23	34	136	15	KED
⎢	**Ni**	**62**	**0.124**	ug/L	0.036	28	8	24	20	KED
⎢	**Cu**	**63**	**1.315**	ug/L	0.048	3	151	3220	3	KED
⎢	**Cu**	**65**	**1.345**	ug/L	0.098	7	80	1635	4	KED
⎢	**Zn**	**66**	**64.250**	ug/L	2.553	3	25	20443	1	KED
⎢	**Zn**	**67**	**58.753**	ug/L	2.271	3	3	3127	2	KED
⎣	**As**	**75**	**0.051**	ug/L	0.019	36	9	17	16	KED
	Y	**89**		ug/L			238833	233005	1	Standard
	Kr	**83**		ug/L			73	48	17	Standard
⎡>	**In-1**	**115**		ug/L			5713	5493	4	KED
⎢	**Cd**	**111**	**0.044**	ug/L	0.007	14	3	11	14	KED
⎣	**Cd**	**114**	**0.063**	ug/L	0.039	61	4	31	49	KED
⎡>	**Tb**	**159**		ug/L			454345	439981	0	Standard
⎣	**Pb**	**208**	**0.195**	ug/L	0.001	0	255	6836	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0163-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:21:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	41498	0	Standard
	Cl	**37**		ug/L			4303531	4734239	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	460296	1	Standard
|	**Cr**	**52**	**0.293**	ug/L	0.019	6	12042	16466	1	Standard
|	**Cr**	**53**	**0.233**	ug/L	0.017	7	429	844	2	Standard
⌊	**Mn**	**55**	**0.022**	ug/L	0.003	12	1435	1880	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19921	1	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.010	131	34	26	25	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.023	227	8	6	45	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	252	151	137	4	KED
|	**Cu**	**65**	**0.003**	ug/L	0.008	256	80	78	12	KED
|	**Zn**	**66**	**0.972**	ug/L	0.116	11	25	315	9	KED
|	**Zn**	**67**	**1.604**	ug/L	0.220	13	3	83	14	KED
⌊	**As**	**75**	**-0.027**	ug/L	0.020	72	9	4	74	KED
	Y	**89**		ug/L			238833	231835	0	Standard
	Kr	**83**		ug/L			73	59	17	Standard
⌈>	**In-1**	**115**		ug/L			5713	5329	2	KED
|	**Cd**	**111**	**0.010**	ug/L	0.016	151	3	5	54	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.007	729	4	4	70	KED
⌈>	**Tb**	**159**		ug/L			454345	438327	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	32	255	205	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:25:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	32331	2	Standard
	Cl	**37**		ug/L			4303531	4676033	2	Standard
⎡>	**Sc**	**45**		ug/L			465524	431767	1	Standard
⎢	**Cr**	**52**	**-0.030**	ug/L	0.004	14	12042	10737	1	Standard
⎢	**Cr**	**53**	**-0.071**	ug/L	0.014	19	429	278	7	Standard
⎣	**Mn**	**55**	**-0.042**	ug/L	0.001	2	1435	515	4	Standard
⎡>	**Ge**	**72**		ug/L			21559	19908	0	KED
⎢	**Ni**	**60**	**-0.029**	ug/L	0.003	10	34	10	21	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.000	0	8	3	0	KED
⎢	**Cu**	**63**	**0.199**	ug/L	0.029	14	151	579	12	KED
⎢	**Cu**	**65**	**0.207**	ug/L	0.007	3	80	300	3	KED
⎢	**Zn**	**66**	**0.150**	ug/L	0.058	39	25	68	26	KED
⎢	**Zn**	**67**	**0.346**	ug/L	0.079	22	3	20	19	KED
⎣	**As**	**75**	**-0.026**	ug/L	0.011	41	9	4	40	KED
	Y	**89**		ug/L			238833	225068	1	Standard
	Kr	**83**		ug/L			73	70	28	Standard
⎡>	**In-1**	**115**		ug/L			5713	5402	1	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.019	662	3	3	90	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.004	607	4	3	51	KED
⎡>	**Tb**	**159**		ug/L			454345	424944	1	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	8	255	194	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:30:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	29659	2	Standard
	Cl	**37**		ug/L			4303531	5056192	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	438789	1	Standard
|	**Cr**	**52**	**49.669**	ug/L	0.598	1	12042	747478	1	Standard
|	**Cr**	**53**	**49.747**	ug/L	0.304	0	429	85850	1	Standard
⌊	**Mn**	**55**	**53.089**	ug/L	0.917	1	1435	1059233	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	19852	3	KED
|	**Ni**	**60**	**51.623**	ug/L	1.529	2	34	39300	0	KED
|	**Ni**	**62**	**50.942**	ug/L	0.681	1	8	6450	2	KED
|	**Cu**	**63**	**51.619**	ug/L	0.614	1	151	113832	2	KED
|	**Cu**	**65**	**51.329**	ug/L	1.776	3	80	56091	0	KED
|	**Zn**	**66**	**50.199**	ug/L	1.770	3	25	15063	0	KED
|	**Zn**	**67**	**51.378**	ug/L	2.510	4	3	2581	6	KED
⌊	**As**	**75**	**50.644**	ug/L	1.982	3	9	8051	0	KED
	Y	**89**		ug/L			238833	219676	3	Standard
	Kr	**83**		ug/L			73	87	9	Standard
⌈>	**In-1**	**115**		ug/L			5713	5285	3	KED
|	**Cd**	**111**	**51.254**	ug/L	0.774	1	3	8982	3	KED
⌊	**Cd**	**114**	**51.076**	ug/L	2.332	4	4	21745	2	KED
⌈>	**Tb**	**159**		ug/L			454345	432712	0	Standard
⌊	**Pb**	**208**	**52.365**	ug/L	0.196	0	255	1742404	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:40:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	30472	3	Standard
	Cl	**37**		ug/L			4303531	4637364	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	432350	1	Standard
⎢	**Cr**	**52**	**-0.046**	ug/L	0.004	9	12042	10507	0	Standard
⎢	**Cr**	**53**	**-0.088**	ug/L	0.010	11	429	249	6	Standard
⎣	**Mn**	**55**	**-0.042**	ug/L	0.000	0	1435	515	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	20562	1	KED
⎢	**Ni**	**60**	**-0.035**	ug/L	0.004	11	34	5	57	KED
⎢	**Ni**	**62**	**-0.026**	ug/L	0.030	114	8	4	89	KED
⎢	**Cu**	**63**	**-0.053**	ug/L	0.004	6	151	24	30	KED
⎢	**Cu**	**65**	**-0.053**	ug/L	0.002	4	80	16	13	KED
⎢	**Zn**	**66**	**-0.008**	ug/L	0.003	41	25	21	5	KED
⎢	**Zn**	**67**	**0.063**	ug/L	0.075	118	3	6	62	KED
⎣	**As**	**75**	**-0.012**	ug/L	0.007	55	9	6	16	KED
	Y	**89**		ug/L			238833	222034	1	Standard
	Kr	**83**		ug/L			73	51	18	Standard
⎡>	**In-1**	**115**		ug/L			5713	5407	1	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.003	50	3	2	24	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.002	301	4	4	25	KED
⎡>	**Tb**	**159**		ug/L			454345	430101	2	Standard
⎣	**Pb**	**208**	**-0.004**	ug/L	0.000	6	255	112	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0162-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:48:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	41878	1	Standard
	Cl	**37**		ug/L			4303531	4552613	2	Standard
⌈>	**Sc**	**45**		ug/L			465524	452961	1	Standard
|	**Cr**	**52**	**0.087**	ug/L	0.018	20	12042	13046	3	Standard
|	**Cr**	**53**	**0.020**	ug/L	0.006	32	429	453	1	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	23	1435	1314	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19993	1	KED
|	**Ni**	**60**	**-0.029**	ug/L	0.006	20	34	10	43	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.032	611	8	6	56	KED
|	**Cu**	**63**	**-0.015**	ug/L	0.007	45	151	106	16	KED
|	**Cu**	**65**	**-0.012**	ug/L	0.012	100	80	61	19	KED
|	**Zn**	**66**	**0.598**	ug/L	0.101	16	25	203	13	KED
|	**Zn**	**67**	**1.541**	ug/L	0.327	21	3	80	19	KED
⌊	**As**	**75**	**-0.024**	ug/L	0.003	10	9	4	10	KED
	Y	**89**		ug/L			238833	228232	1	Standard
	Kr	**83**		ug/L			73	55	28	Standard
⌈>	**In-1**	**115**		ug/L			5713	5365	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.011	232	3	4	48	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	134	4	5	36	KED
⌈>	**Tb**	**159**		ug/L			454345	433731	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	153	255	229	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0560-SRL1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:52:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	34431	0	Standard
	Cl	**37**		ug/L			4303531	4507924	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	441774	1	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.026	247	12042	11267	3	Standard
|	**Cr**	**53**	**-0.059**	ug/L	0.009	14	429	305	3	Standard
⌊	**Mn**	**55**	**-0.030**	ug/L	0.001	4	1435	751	3	Standard
⌈>	**Ge**	**72**		ug/L			21559	19851	0	KED
|	**Ni**	**60**	**-0.031**	ug/L	0.008	25	34	8	74	KED
|	**Ni**	**62**	**0.005**	ug/L	0.023	445	8	8	35	KED
|	**Cu**	**63**	**-0.038**	ug/L	0.007	17	151	55	25	KED
|	**Cu**	**65**	**-0.031**	ug/L	0.009	27	80	40	23	KED
|	**Zn**	**66**	**0.263**	ug/L	0.078	29	25	102	23	KED
|	**Zn**	**67**	**0.511**	ug/L	0.066	12	3	28	11	KED
⌊	**As**	**75**	**-0.020**	ug/L	0.008	38	9	5	24	KED
	Y	**89**		ug/L			238833	226507	2	Standard
	Kr	**83**		ug/L			73	63	9	Standard
⌈>	**In-1**	**115**		ug/L			5713	5392	2	KED
|	**Cd**	**111**	**0.013**	ug/L	0.005	33	3	5	16	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.008	97	4	7	44	KED
⌈>	**Tb**	**159**		ug/L			454345	435696	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	16	255	196	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0560-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 19:56:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	42740	1	Standard
	Cl	**37**		ug/L			4303531	4626231	2	Standard
⎡>	**Sc**	**45**		ug/L			465524	451994	0	Standard
⎢	**Cr**	**52**	**0.080**	ug/L	0.013	16	12042	12909	1	Standard
⎢	**Cr**	**53**	**-0.003**	ug/L	0.008	302	429	412	3	Standard
⎣	**Mn**	**55**	**-0.013**	ug/L	0.003	22	1435	1123	5	Standard
⎡>	**Ge**	**72**		ug/L			21559	20377	2	KED
⎢	**Ni**	**60**	**-0.027**	ug/L	0.009	33	34	11	60	KED
⎢	**Ni**	**62**	**-0.025**	ug/L	0.031	123	8	4	89	KED
⎢	**Cu**	**63**	**-0.024**	ug/L	0.005	20	151	88	10	KED
⎢	**Cu**	**65**	**-0.031**	ug/L	0.004	14	80	41	9	KED
⎢	**Zn**	**66**	**0.584**	ug/L	0.019	3	25	203	2	KED
⎢	**Zn**	**67**	**1.273**	ug/L	0.257	20	3	68	19	KED
⎣	**As**	**75**	**-0.010**	ug/L	0.011	114	9	7	26	KED
	Y	**89**		ug/L			238833	235037	0	Standard
	Kr	**83**		ug/L			73	50	34	Standard
⎡>	**In-1**	**115**		ug/L			5713	5507	2	KED
⎢	**Cd**	**111**	**0.008**	ug/L	0.013	175	3	4	52	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.000	48	4	3	2	KED
⎡>	**Tb**	**159**		ug/L			454345	437818	1	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.001	23	255	163	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0560-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:01:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	41307	0	Standard
	Cl	**37**		ug/L			4303531	4509002	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	435240	0	Standard
|	**Cr**	**52**	**25.701**	ug/L	0.365	1	12042	389083	1	Standard
|	**Cr**	**53**	**25.693**	ug/L	0.274	1	429	44176	1	Standard
⌊	**Mn**	**55**	**27.520**	ug/L	0.510	1	1435	545321	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19935	1	KED
|	**Ni**	**60**	**26.274**	ug/L	0.790	3	34	20107	1	KED
|	**Ni**	**62**	**26.042**	ug/L	0.495	1	8	3315	1	KED
|	**Cu**	**63**	**26.420**	ug/L	0.071	0	151	58588	1	KED
|	**Cu**	**65**	**26.975**	ug/L	1.124	4	80	29645	2	KED
|	**Zn**	**66**	**79.892**	ug/L	2.467	3	25	24070	1	KED
|	**Zn**	**67**	**77.117**	ug/L	1.755	2	3	3888	2	KED
⌊	**As**	**75**	**24.398**	ug/L	0.529	2	9	3901	1	KED
	Y	**89**		ug/L			238833	226565	3	Standard
	Kr	**83**		ug/L			73	60	16	Standard
⌈>	**In-1**	**115**		ug/L			5713	5461	3	KED
|	**Cd**	**111**	**24.359**	ug/L	1.067	4	3	4408	1	KED
⌊	**Cd**	**114**	**24.593**	ug/L	0.526	2	4	10826	1	KED
⌈>	**Tb**	**159**		ug/L			454345	433096	0	Standard
⌊	**Pb**	**208**	**26.702**	ug/L	0.231	0	255	889372	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0560-PS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:05:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	42236	3	Standard
	Cl	**37**		ug/L			4303531	4609295	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	444210	1	Standard
|	**Cr**	**52**	**25.819**	ug/L	0.314	1	12042	398862	1	Standard
|	**Cr**	**53**	**26.039**	ug/L	0.364	1	429	45681	1	Standard
⌊	**Mn**	**55**	**27.990**	ug/L	0.509	1	1435	566001	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	20434	0	KED
|	**Ni**	**60**	**26.032**	ug/L	0.291	1	34	20427	0	KED
|	**Ni**	**62**	**25.990**	ug/L	1.210	4	8	3392	4	KED
|	**Cu**	**63**	**26.138**	ug/L	0.456	1	151	59414	1	KED
|	**Cu**	**65**	**26.730**	ug/L	0.097	0	80	30125	0	KED
|	**Zn**	**66**	**77.854**	ug/L	0.346	0	25	24052	0	KED
|	**Zn**	**67**	**73.199**	ug/L	3.374	4	3	3782	4	KED
⌊	**As**	**75**	**24.320**	ug/L	0.110	0	9	3987	0	KED
	Y	**89**		ug/L			238833	227373	2	Standard
	Kr	**83**		ug/L			73	71	17	Standard
⌈>	**In-1**	**115**		ug/L			5713	5421	2	KED
|	**Cd**	**111**	**24.844**	ug/L	0.803	3	3	4464	0	KED
⌊	**Cd**	**114**	**25.160**	ug/L	0.402	1	4	10997	2	KED
⌈>	**Tb**	**159**		ug/L			454345	435599	1	Standard
⌊	**Pb**	**208**	**27.244**	ug/L	0.511	1	255	912510	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-11
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:09:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	41152	0	Standard
	Cl	**37**		ug/L			4303531	4625254	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	454052	0	Standard
|	**Cr**	**52**	**1.899**	ug/L	0.019	0	12042	40870	0	Standard
|	**Cr**	**53**	**1.904**	ug/L	0.041	2	429	3802	2	Standard
⌊	**Mn**	**55**	**21.713**	ug/L	0.114	0	1435	449169	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	20569	2	KED
|	**Ni**	**60**	**1.817**	ug/L	0.055	2	34	1466	5	KED
|	**Ni**	**62**	**1.811**	ug/L	0.136	7	8	245	5	KED
|	**Cu**	**63**	**5.795**	ug/L	0.065	1	151	13371	1	KED
|	**Cu**	**65**	**5.960**	ug/L	0.054	0	80	6820	1	KED
|	**Zn**	**66**	**7.276**	ug/L	0.110	1	25	2285	3	KED
|	**Zn**	**67**	**7.099**	ug/L	0.049	0	3	372	2	KED
⌊	**As**	**75**	**81.704**	ug/L	1.331	1	9	13460	0	KED
	Y	**89**		ug/L			238833	265865	2	Standard
	Kr	**83**		ug/L			73	84	9	Standard
⌈>	**In-1**	**115**		ug/L			5713	5534	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.013	321	3	4	58	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.008	62	4	9	38	KED
⌈>	**Tb**	**159**		ug/L			454345	448385	1	Standard
⌊	**Pb**	**208**	**0.601**	ug/L	0.008	1	255	20962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-DUP1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:14:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	41870	2	Standard
	Cl	**37**		ug/L			4303531	4661008	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	452511	0	Standard
⎢	**Cr**	**52**	**1.882**	ug/L	0.058	3	12042	40476	2	Standard
⎢	**Cr**	**53**	**1.799**	ug/L	0.049	2	429	3603	2	Standard
⎣	**Mn**	**55**	**22.694**	ug/L	0.192	0	1435	467792	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	20197	0	KED
⎢	**Ni**	**60**	**1.574**	ug/L	0.084	5	34	1252	5	KED
⎢	**Ni**	**62**	**1.711**	ug/L	0.281	16	8	227	15	KED
⎢	**Cu**	**63**	**5.372**	ug/L	0.126	2	151	12183	2	KED
⎢	**Cu**	**65**	**5.289**	ug/L	0.179	3	80	5952	3	KED
⎢	**Zn**	**66**	**6.572**	ug/L	0.241	3	25	2028	3	KED
⎢	**Zn**	**67**	**6.571**	ug/L	0.764	11	3	338	11	KED
⎣	**As**	**75**	**80.629**	ug/L	1.468	1	9	13047	2	KED
	Y	**89**		ug/L			238833	268219	3	Standard
	Kr	**83**		ug/L			73	76	13	Standard
⎡>	**In-1**	**115**		ug/L			5713	5387	1	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.006	129	3	4	26	KED
⎣	**Cd**	**114**	**0.009**	ug/L	0.007	75	4	7	37	KED
⎡>	**Tb**	**159**		ug/L			454345	447059	1	Standard
⎣	**Pb**	**208**	**0.601**	ug/L	0.013	2	255	20897	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-MS1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:18:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	39963	2	Standard
	Cl	**37**		ug/L			4303531	4618446	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	457017	1	Standard
|	**Cr**	**52**	**7.501**	ug/L	0.177	2	12042	127580	1	Standard
|	**Cr**	**53**	**7.545**	ug/L	0.185	2	429	13918	2	Standard
⌊	**Mn**	**55**	**27.581**	ug/L	0.780	2	1435	573801	2	Standard
⌈>	**Ge**	**72**		ug/L			21559	20466	0	KED
|	**Ni**	**60**	**6.977**	ug/L	0.222	3	34	5508	3	KED
|	**Ni**	**62**	**7.217**	ug/L	0.164	2	8	949	2	KED
|	**Cu**	**63**	**11.990**	ug/L	0.022	0	151	27374	0	KED
|	**Cu**	**65**	**11.760**	ug/L	0.135	1	80	13317	1	KED
|	**Zn**	**66**	**24.371**	ug/L	0.999	4	25	7556	3	KED
|	**Zn**	**67**	**22.675**	ug/L	0.282	1	3	1175	1	KED
⌊	**As** STL	**75**	**89.457**	ug/L	2.163	2	9	14666	2	KED
	Y	**89**		ug/L			238833	267895	2	Standard
	Kr	**83**		ug/L			73	74	2	Standard
⌈>	**In-1**	**115**		ug/L			5713	5463	1	KED
|	**Cd**	**111**	**5.419**	ug/L	0.129	2	3	984	1	KED
⌊	**Cd**	**114**	**5.426**	ug/L	0.157	2	4	2393	2	KED
⌈>	**Tb**	**159**		ug/L			454345	445296	0	Standard
⌊	**Pb**	**208**	**6.467**	ug/L	0.071	1	255	221633	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0529-MSD1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:22:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	38905	0	Standard
	Cl	**37**		ug/L			4303531	4529802	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	432413	1	Standard
|	**Cr**	**52**	**7.926**	ug/L	0.201	2	12042	126917	0	Standard
|	**Cr**	**53**	**8.026**	ug/L	0.253	3	429	13979	1	Standard
⌊	**Mn**	**55**	**26.469**	ug/L	0.188	0	1435	521174	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	20157	0	KED
|	**Ni**	**60**	**7.297**	ug/L	0.145	1	34	5672	2	KED
|	**Ni**	**62**	**7.028**	ug/L	0.230	3	8	910	2	KED
|	**Cu**	**63**	**11.561**	ug/L	0.364	3	151	26004	3	KED
|	**Cu**	**65**	**11.407**	ug/L	0.187	1	80	12725	1	KED
|	**Zn**	**66**	**25.299**	ug/L	0.360	1	25	7726	1	KED
|	**Zn**	**67**	**23.682**	ug/L	0.994	4	3	1209	4	KED
⌊	**As** STL	**75**	**89.246**	ug/L	1.020	1	9	14412	1	KED
	Y	**89**		ug/L			238833	254455	2	Standard
	Kr	**83**		ug/L			73	82	16	Standard
⌈>	**In-1**	**115**		ug/L			5713	5384	3	KED
|	**Cd**	**111**	**5.531**	ug/L	0.355	6	3	989	3	KED
⌊	**Cd**	**114**	**5.528**	ug/L	0.192	3	4	2401	1	KED
⌈>	**Tb**	**159**		ug/L			454345	432846	1	Standard
⌊	**Pb**	**208**	**6.385**	ug/L	0.093	1	255	212710	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:27:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	32503	1	Standard
	Cl	**37**		ug/L			4303531	4452247	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	429575	1	Standard
|	**Cr**	**52**	**-0.053**	ug/L	0.020	37	12042	10334	1	Standard
|	**Cr**	**53**	**-0.093**	ug/L	0.007	7	429	239	3	Standard
⌊	**Mn**	**55**	**-0.040**	ug/L	0.001	2	1435	538	2	Standard
⌈>	**Ge**	**72**		ug/L			21559	19554	1	KED
|	**Ni**	**60**	**-0.027**	ug/L	0.003	9	34	11	16	KED
|	**Ni**	**62**	**-0.009**	ug/L	0.047	516	8	6	91	KED
|	**Cu**	**63**	**0.204**	ug/L	0.014	7	151	580	6	KED
|	**Cu**	**65**	**0.196**	ug/L	0.013	6	80	283	5	KED
|	**Zn**	**66**	**0.208**	ug/L	0.049	23	25	84	16	KED
|	**Zn**	**67**	**0.160**	ug/L	0.025	15	3	10	10	KED
⌊	**As**	**75**	**0.014**	ug/L	0.019	139	9	10	27	KED
	Y	**89**		ug/L			238833	227037	0	Standard
	Kr	**83**		ug/L			73	73	20	Standard
⌈>	**In-1**	**115**		ug/L			5713	5345	5	KED
|	**Cd**	**111**	**0.007**	ug/L	0.023	329	3	4	86	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.014	229	4	6	91	KED
⌈>	**Tb**	**159**		ug/L			454345	426229	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	50	255	226	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:31:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	29708	2	Standard
	Cl	**37**		ug/L			4303531	5013903	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	441614	0	Standard
|	**Cr**	**52**	**49.354**	ug/L	0.651	1	12042	747510	0	Standard
|	**Cr**	**53**	**49.299**	ug/L	1.413	2	429	85613	2	Standard
⌊	**Mn**	**55**	**52.843**	ug/L	0.975	1	1435	1061139	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19917	1	KED
|	**Ni**	**60**	**51.407**	ug/L	0.088	0	34	39289	1	KED
|	**Ni**	**62**	**51.338**	ug/L	1.978	3	8	6522	2	KED
|	**Cu**	**63**	**51.144**	ug/L	0.819	1	151	113198	2	KED
|	**Cu**	**65**	**51.835**	ug/L	1.565	3	80	56866	2	KED
|	**Zn**	**66**	**50.760**	ug/L	1.388	2	25	15290	1	KED
|	**Zn**	**67**	**49.759**	ug/L	0.878	1	3	2507	1	KED
⌊	**As**	**75**	**50.563**	ug/L	0.659	1	9	8070	0	KED
	Y	**89**		ug/L			238833	225701	2	Standard
	Kr	**83**		ug/L			73	75	3	Standard
⌈>	**In-1**	**115**		ug/L			5713	5235	2	KED
|	**Cd**	**111**	**50.634**	ug/L	1.376	2	3	8786	1	KED
⌊	**Cd**	**114**	**49.696**	ug/L	1.508	3	4	20967	1	KED
⌈>	**Tb**	**159**		ug/L			454345	434041	1	Standard
⌊	**Pb**	**208**	**52.694**	ug/L	0.660	1	255	1758569	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:38:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	30524	1	Standard
	Cl	**37**		ug/L			4303531	4517319	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	430229	2	Standard
|	**Cr**	**52**	**-0.022**	ug/L	0.036	165	12042	10801	2	Standard
|	**Cr**	**53**	**-0.095**	ug/L	0.005	5	429	236	6	Standard
⌊	**Mn**	**55**	**-0.041**	ug/L	0.001	1	1435	521	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19365	4	KED
|	**Ni**	**60**	**-0.034**	ug/L	0.003	9	34	6	34	KED
|	**Ni**	**62**	**-0.034**	ug/L	0.010	27	8	3	34	KED
|	**Cu**	**63**	**-0.047**	ug/L	0.002	4	151	34	11	KED
|	**Cu**	**65**	**-0.051**	ug/L	0.004	7	80	17	26	KED
|	**Zn**	**66**	**0.015**	ug/L	0.003	21	25	27	4	KED
|	**Zn**	**67**	**0.033**	ug/L	0.046	139	3	4	49	KED
⌊	**As**	**75**	**-0.012**	ug/L	0.019	161	9	6	48	KED
	Y	**89**		ug/L			238833	221340	1	Standard
	Kr	**83**		ug/L			73	58	9	Standard
⌈>	**In-1**	**115**		ug/L			5713	5364	3	KED
|	**Cd**	**111**	**0.006**	ug/L	0.008	119	3	4	32	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.007	654	4	4	67	KED
⌈>	**Tb**	**159**		ug/L			454345	427272	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.001	17	255	144	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0162-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:49:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	47606	1	Standard
	Cl	**37**		ug/L			4303531	4749077	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	478589	0	Standard
|	**Cr**	**52**	**0.199**	ug/L	0.012	6	12042	15593	1	Standard
|	**Cr**	**53**	**0.959**	ug/L	0.031	3	429	2237	2	Standard
⌊	**Mn**	**55**	**9.586**	ug/L	0.098	1	1435	209846	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19692	2	KED
|	**Ni**	**60**	**1.199**	ug/L	0.112	9	34	935	6	KED
|	**Ni**	**62**	**1.250**	ug/L	0.025	1	8	164	1	KED
|	**Cu**	**63**	**1.062**	ug/L	0.082	7	151	2456	5	KED
|	**Cu**	**65**	**1.081**	ug/L	0.054	5	80	1243	2	KED
|	**Zn**	**66**	**44.275**	ug/L	1.746	3	25	13185	2	KED
|	**Zn**	**67**	**40.107**	ug/L	3.469	8	3	1998	8	KED
⌊	**As**	**75**	**0.299**	ug/L	0.044	14	9	55	14	KED
	Y	**89**		ug/L			238833	227525	0	Standard
	Kr	**83**		ug/L			73	60	26	Standard
⌈>	**In-1**	**115**		ug/L			5713	5149	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.008	42	3	6	22	KED
⌊	**Cd**	**114**	**0.030**	ug/L	0.015	51	4	16	40	KED
⌈>	**Tb**	**159**		ug/L			454345	444993	0	Standard
⌊	**Pb**	**208**	**0.420**	ug/L	0.002	0	255	14633	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0559-SRL1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 03, 2023 20:54:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	34400	1	Standard
	Cl	**37**		ug/L			4303531	4518669	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	431781	2	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.028	97	12042	11582	1	Standard
|	**Cr**	**53**	**0.147**	ug/L	0.017	11	429	647	2	Standard
⌊	**Mn**	**55**	**2.073**	ug/L	0.075	3	1435	41965	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19753	1	KED
|	**Ni**	**60**	**0.237**	ug/L	0.006	2	34	211	1	KED
|	**Ni**	**62**	**0.253**	ug/L	0.022	8	8	39	5	KED
|	**Cu**	**63**	**0.179**	ug/L	0.022	12	151	532	9	KED
|	**Cu**	**65**	**0.183**	ug/L	0.017	9	80	272	7	KED
|	**Zn**	**66**	**9.454**	ug/L	0.572	6	25	2842	4	KED
|	**Zn**	**67**	**8.794**	ug/L	0.206	2	3	441	2	KED
⌊	**As**	**75**	**0.074**	ug/L	0.006	7	9	20	3	KED
	Y	**89**		ug/L			238833	216921	3	Standard
	Kr	**83**		ug/L			73	64	10	Standard
⌈>	**In-1**	**115**		ug/L			5713	5605	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.006	483	3	3	34	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	132	4	6	45	KED
⌈>	**Tb**	**159**		ug/L			454345	427769	0	Standard
⌊	**Pb**	**208**	**0.090**	ug/L	0.001	0	255	3186	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0559-DUP1
Sample Dil Factor:
Comments: DEL
Sample Date/Time: Tuesday, January 03, 2023 20:58:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	45663	2	Standard
	Cl	**37**		ug/L			4303531	4722790	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	469488	1	Standard
|	**Cr**	**52**	**0.195**	ug/L	0.043	21	12042	15237	3	Standard
|	**Cr**	**53**	**1.007**	ug/L	0.047	4	429	2284	4	Standard
⌊	**Mn**	**55**	**9.879**	ug/L	0.196	1	1435	212090	2	Standard
⌈>	**Ge**	**72**		ug/L			21559	19729	2	KED
|	**Ni**	**60**	**1.306**	ug/L	0.075	5	34	1020	8	KED
|	**Ni**	**62**	**1.100**	ug/L	0.079	7	8	146	9	KED
|	**Cu**	**63**	**1.058**	ug/L	0.057	5	151	2452	2	KED
|	**Cu**	**65**	**1.049**	ug/L	0.029	2	80	1212	2	KED
|	**Zn**	**66**	**154.287**	ug/L	3.418	2	25	45983	0	KED
|	**Zn**	**67**	**140.292**	ug/L	3.747	2	3	6996	2	KED
⌊	**As**	**75**	**0.301**	ug/L	0.026	8	9	55	4	KED
	Y	**89**		ug/L			238833	227450	3	Standard
	Kr	**83**		ug/L			73	62	12	Standard
⌈>	**In-1**	**115**		ug/L			5713	5235	2	KED
|	**Cd**	**111**	**0.026**	ug/L	0.006	23	3	7	12	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.009	50	4	11	34	KED
⌈>	**Tb**	**159**		ug/L			454345	436894	0	Standard
⌊	**Pb**	**208**	**0.425**	ug/L	0.006	1	255	14526	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0559-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:02:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	45462	2	Standard
	Cl	**37**		ug/L			4303531	4857243	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	465812	0	Standard
|	**Cr**	**52**	**24.136**	ug/L	0.384	1	12042	391792	1	Standard
|	**Cr**	**53**	**24.980**	ug/L	0.550	2	429	45978	2	Standard
⌊	**Mn**	**55**	**35.380**	ug/L	0.629	1	1435	749966	2	Standard
⌈>	**Ge**	**72**		ug/L			21559	20031	0	KED
|	**Ni**	**60**	**27.576**	ug/L	0.538	1	34	21209	1	KED
|	**Ni**	**62**	**26.386**	ug/L	0.679	2	8	3375	1	KED
|	**Cu**	**63**	**27.635**	ug/L	0.439	1	151	61571	1	KED
|	**Cu**	**65**	**28.168**	ug/L	0.152	0	80	31115	0	KED
|	**Zn**	**66**	**125.808**	ug/L	1.294	1	25	38084	0	KED
|	**Zn**	**67**	**115.370**	ug/L	1.399	1	3	5843	1	KED
⌊	**As**	**75**	**25.825**	ug/L	0.412	1	9	4149	0	KED
	Y	**89**		ug/L			238833	229772	3	Standard
	Kr	**83**		ug/L			73	64	40	Standard
⌈>	**In-1**	**115**		ug/L			5713	5211	0	KED
|	**Cd**	**111**	**25.145**	ug/L	0.184	0	3	4346	0	KED
⌊	**Cd**	**114**	**25.393**	ug/L	0.004	0	4	10670	0	KED
⌈>	**Tb**	**159**		ug/L			454345	434343	0	Standard
⌊	**Pb**	**208**	**27.278**	ug/L	0.520	1	255	911195	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0559-PS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:07:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	46413	2	Standard
	Cl	**37**		ug/L			4303531	4764361	0	Standard
⌈>	**Sc**	**45**		ug/L			465524	462241	1	Standard
|	**Cr**	**52**	**23.818**	ug/L	0.689	2	12042	383751	1	Standard
|	**Cr**	**53**	**24.565**	ug/L	0.469	1	429	44866	0	Standard
⌊	**Mn**	**55**	**34.462**	ug/L	0.545	1	1435	724819	0	Standard
⌈>	**Ge**	**72**		ug/L			21559	19941	1	KED
|	**Ni**	**60**	**27.838**	ug/L	0.594	2	34	21311	0	KED
|	**Ni**	**62**	**25.673**	ug/L	1.111	4	8	3270	4	KED
|	**Cu**	**63**	**27.126**	ug/L	0.986	3	151	60147	2	KED
|	**Cu**	**65**	**27.059**	ug/L	0.419	1	80	29761	2	KED
|	**Zn**	**66**	**121.935**	ug/L	0.857	0	25	36750	1	KED
|	**Zn**	**67**	**113.010**	ug/L	2.194	1	3	5699	3	KED
⌊	**As**	**75**	**25.120**	ug/L	0.422	1	9	4018	1	KED
	Y	**89**		ug/L			238833	222389	2	Standard
	Kr	**83**		ug/L			73	55	12	Standard
⌈>	**In-1**	**115**		ug/L			5713	5179	1	KED
|	**Cd**	**111**	**24.971**	ug/L	0.310	1	3	4289	1	KED
⌊	**Cd**	**114**	**24.930**	ug/L	0.742	2	4	10409	1	KED
⌈>	**Tb**	**159**		ug/L			454345	429911	0	Standard
⌊	**Pb**	**208**	**27.056**	ug/L	0.214	0	255	894581	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0139-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:11:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	73976	3	Standard
	Cl	**37**		ug/L			4303531	4871736	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	436183	0	Standard
⎢	**Cr**	**52**	**0.981**	ug/L	0.039	3	12042	25732	1	Standard
⎢	**Cr**	**53**	**1.528**	ug/L	0.045	2	429	3010	3	Standard
⎣	**Mn**	**55**	**1.147**	ug/L	0.004	0	1435	24062	0	Standard
⎡>	**Ge**	**72**		ug/L			21559	18361	3	KED
⎢	**Ni**	**60**	**0.192**	ug/L	0.064	33	34	163	24	KED
⎢	**Ni**	**62**	**0.146**	ug/L	0.013	9	8	24	4	KED
⎢	**Cu**	**63**	**11.714**	ug/L	0.390	3	151	23983	0	KED
⎢	**Cu**	**65**	**11.529**	ug/L	0.349	3	80	11708	1	KED
⎢	**Zn**	**66**	**3.029**	ug/L	0.024	0	25	861	3	KED
⎢	**Zn**	**67**	**2.689**	ug/L	0.174	6	3	127	8	KED
⎣	**As**	**75**	**0.041**	ug/L	0.024	57	9	13	27	KED
	Y	**89**		ug/L			238833	215488	0	Standard
	Kr	**83**		ug/L			73	61	8	Standard
⎡>	**In-1**	**115**		ug/L			5713	4808	3	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.019	325	3	3	75	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.003	51	4	1	121	KED
⎡>	**Tb**	**159**		ug/L			454345	422037	1	Standard
⎣	**Pb**	**208**	**0.048**	ug/L	0.004	9	255	1793	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0220-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:15:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	45427	0	Standard
	Cl	**37**		ug/L			4303531	4643483	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	417703	1	Standard
|	**Cr**	**52**	**1.106**	ug/L	0.074	6	12042	26399	2	Standard
|	**Cr**	**53**	**1.065**	ug/L	0.024	2	429	2126	0	Standard
⌊	**Mn**	**55**	**1.602**	ug/L	0.007	0	1435	31670	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19846	1	KED
|	**Ni**	**60**	**0.040**	ug/L	0.007	18	34	62	7	KED
|	**Ni**	**62**	**0.025**	ug/L	0.034	136	8	10	40	KED
|	**Cu**	**63**	**1.809**	ug/L	0.088	4	151	4123	3	KED
|	**Cu**	**65**	**1.822**	ug/L	0.064	3	80	2063	2	KED
|	**Zn**	**66**	**26.699**	ug/L	0.367	1	25	8026	1	KED
|	**Zn**	**67**	**24.041**	ug/L	1.480	6	3	1208	5	KED
⌊	**As**	**75**	**5.181**	ug/L	0.191	3	9	831	2	KED
	Y	**89**		ug/L			238833	215843	2	Standard
	Kr	**83**		ug/L			73	64	7	Standard
⌈>	**In-1**	**115**		ug/L			5713	5486	0	KED
|	**Cd**	**111**	**0.029**	ug/L	0.010	35	3	8	22	KED
⌊	**Cd**	**114**	**0.023**	ug/L	0.008	35	4	13	25	KED
⌈>	**Tb**	**159**		ug/L			454345	418415	2	Standard
⌊	**Pb**	**208**	**0.530**	ug/L	0.010	1	255	17295	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0262-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:20:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	46827	4	Standard
	Cl	**37**		ug/L			4303531	4721037	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	438532	1	Standard
⎢	**Cr**	**52**	**0.402**	ug/L	0.008	1	12042	17301	2	Standard
⎢	**Cr**	**53**	**0.680**	ug/L	0.011	1	429	1571	1	Standard
⎣	**Mn**	**55**	**4.176**	ug/L	0.087	2	1435	84534	2	Standard
⎡>	**Ge**	**72**		ug/L			21559	19372	1	KED
⎢	**Ni**	**60**	**0.139**	ug/L	0.031	22	34	134	18	KED
⎢	**Ni**	**62**	**0.084**	ug/L	0.054	64	8	17	37	KED
⎢	**Cu**	**63**	**1.083**	ug/L	0.067	6	151	2464	5	KED
⎢	**Cu**	**65**	**1.114**	ug/L	0.053	4	80	1259	3	KED
⎢	**Zn**	**66**	**20.701**	ug/L	0.196	0	25	6079	1	KED
⎢	**Zn**	**67**	**18.756**	ug/L	0.275	1	3	921	3	KED
⎣	**As**	**75**	**0.153**	ug/L	0.022	14	9	31	8	KED
	Y	**89**		ug/L			238833	223595	3	Standard
	Kr	**83**		ug/L			73	55	22	Standard
⎡>	**In-1**	**115**		ug/L			5713	5216	1	KED
⎢	**Cd**	**111**	**0.033**	ug/L	0.014	41	3	8	26	KED
⎣	**Cd**	**114**	**0.012**	ug/L	0.008	63	4	8	37	KED
⎡>	**Tb**	**159**		ug/L			454345	437229	1	Standard
⎣	**Pb**	**208**	**0.208**	ug/L	0.006	2	255	7224	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0262-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:24:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	49754	0	Standard
	Cl	**37**		ug/L			4303531	4700166	1	Standard
⌈>	**Sc**	**45**		ug/L			465524	430777	1	Standard
|	**Cr**	**52**	**0.716**	ug/L	0.016	2	12042	21559	1	Standard
|	**Cr**	**53**	**1.051**	ug/L	0.027	2	429	2170	3	Standard
⌊	**Mn**	**55**	**7.564**	ug/L	0.091	1	1435	149314	1	Standard
⌈>	**Ge**	**72**		ug/L			21559	19057	1	KED
|	**Ni**	**60**	**0.354**	ug/L	0.031	8	34	289	6	KED
|	**Ni**	**62**	**0.416**	ug/L	0.106	25	8	57	21	KED
|	**Cu**	**63**	**2.282**	ug/L	0.027	1	151	4961	2	KED
|	**Cu**	**65**	**2.321**	ug/L	0.143	6	80	2503	4	KED
|	**Zn**	**66**	**42.804**	ug/L	1.162	2	25	12339	1	KED
|	**Zn**	**67**	**38.813**	ug/L	1.057	2	3	1871	2	KED
⌊	**As**	**75**	**0.475**	ug/L	0.052	10	9	80	11	KED
	Y	**89**		ug/L			238833	226124	2	Standard
	Kr	**83**		ug/L			73	55	8	Standard
⌈>	**In-1**	**115**		ug/L			5713	5143	1	KED
|	**Cd**	**111**	**0.043**	ug/L	0.022	50	3	10	36	KED
⌊	**Cd**	**114**	**0.051**	ug/L	0.009	17	4	24	15	KED
⌈>	**Tb**	**159**		ug/L			454345	432432	1	Standard
⌊	**Pb**	**208**	**1.041**	ug/L	0.015	1	255	34862	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:28:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	31585	1	Standard
	Cl	**37**		ug/L			4303531	4538736	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	416777	1	Standard
⎢	**Cr**	**52**	**-0.023**	ug/L	0.020	86	12042	10453	3	Standard
⎢	**Cr**	**53**	**-0.059**	ug/L	0.013	21	429	287	6	Standard
⎣	**Mn**	**55**	**-0.042**	ug/L	0.001	2	1435	491	5	Standard
⎡>	**Ge**	**72**		ug/L			21559	19818	0	KED
⎢	**Ni**	**60**	**-0.026**	ug/L	0.001	5	34	12	9	KED
⎢	**Ni**	**62**	**-0.010**	ug/L	0.053	525	8	6	105	KED
⎢	**Cu**	**63**	**0.184**	ug/L	0.022	11	151	544	8	KED
⎢	**Cu**	**65**	**0.192**	ug/L	0.027	14	80	283	11	KED
⎢	**Zn**	**66**	**0.202**	ug/L	0.039	19	25	83	14	KED
⎢	**Zn**	**67**	**0.233**	ug/L	0.153	65	3	14	52	KED
⎣	**As**	**75**	**-0.017**	ug/L	0.005	28	9	5	14	KED
	Y	**89**		ug/L			238833	214198	2	Standard
	Kr	**83**		ug/L			73	59	12	Standard
⎡>	**In-1**	**115**		ug/L			5713	5395	4	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.008	122	3	2	65	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.000	2	4	1	6	KED
⎡>	**Tb**	**159**		ug/L			454345	421554	0	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	29	255	182	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:33:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	29228	1	Standard
	Cl	**37**		ug/L			4303531	5010383	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	420563	1	Standard
⎢	**Cr**	**52**	**49.677**	ug/L	1.123	2	12042	716461	1	Standard
⎢	**Cr**	**53**	**50.512**	ug/L	0.839	1	429	83533	0	Standard
⎣	**Mn**	**55**	**53.447**	ug/L	0.712	1	1435	1022154	1	Standard
⎡>	**Ge**	**72**		ug/L			21559	19274	1	KED
⎢	**Ni**	**60**	**52.056**	ug/L	1.310	2	34	38503	3	KED
⎢	**Ni**	**62**	**49.133**	ug/L	1.012	2	8	6043	2	KED
⎢	**Cu**	**63**	**51.224**	ug/L	0.247	0	151	109704	1	KED
⎢	**Cu**	**65**	**50.676**	ug/L	0.928	1	80	53815	3	KED
⎢	**Zn**	**66**	**49.808**	ug/L	0.474	0	25	14521	0	KED
⎢	**Zn**	**67**	**51.433**	ug/L	0.421	0	3	2508	0	KED
⎣	**As**	**75**	**50.866**	ug/L	0.326	0	9	7858	1	KED
	Y	**89**		ug/L			238833	217171	2	Standard
	Kr	**83**		ug/L			73	78	12	Standard
⎡>	**In-1**	**115**		ug/L			5713	5120	1	KED
⎢	**Cd**	**111**	**51.133**	ug/L	0.744	1	3	8681	1	KED
⎣	**Cd**	**114**	**51.396**	ug/L	0.935	1	4	21218	1	KED
⎡>	**Tb**	**159**		ug/L			454345	431200	1	Standard
⎣	**Pb**	**208**	**52.536**	ug/L	1.266	2	255	1741567	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:41:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30014	26260	1	Standard
	Cl	**37**		ug/L			4303531	4508556	0	Standard
⎡>	**Sc**	**45**		ug/L			465524	417377	0	Standard
⎢	**Cr**	**52**	**-0.038**	ug/L	0.015	38	12042	10260	2	Standard
⎢	**Cr**	**53**	**-0.091**	ug/L	0.006	7	429	235	3	Standard
⎣	**Mn**	**55**	**-0.045**	ug/L	0.001	3	1435	440	6	Standard
⎡>	**Ge**	**72**		ug/L			21559	19034	1	KED
⎢	**Ni**	**60**	**-0.035**	ug/L	0.003	9	34	5	43	KED
⎢	**Ni**	**62**	**-0.039**	ug/L	0.010	24	8	2	43	KED
⎢	**Cu**	**63**	**-0.053**	ug/L	0.005	9	151	22	44	KED
⎢	**Cu**	**65**	**-0.055**	ug/L	0.005	8	80	13	34	KED
⎢	**Zn**	**66**	**-0.029**	ug/L	0.010	33	25	13	20	KED
⎢	**Zn**	**67**	**-0.005**	ug/L	0.024	467	3	2	43	KED
⎣	**As**	**75**	**-0.016**	ug/L	0.006	36	9	5	14	KED
	Y	**89**		ug/L			238833	215819	0	Standard
	Kr	**83**		ug/L			73	64	12	Standard
⎡>	**In-1**	**115**		ug/L			5713	5188	1	KED
⎢	**Cd**	**111**	**0.002**	ug/L	0.008	450	3	3	41	KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.016	273	4	6	108	KED
⎡>	**Tb**	**159**		ug/L			454345	421994	1	Standard
⎣	**Pb**	**208**	**-0.005**	ug/L	0.000	6	255	74	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:50:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				25899	1	Standard
	Cl	**37**		ug/L				4447895	0	Standard
⎡>	**Sc**	**45**		ug/L				405870	0	Standard
⎢	**Cr**	**52**		ug/L				10056	2	Standard
⎢	**Cr**	**53**		ug/L				251	5	Standard
⎣	**Mn**	**55**		ug/L				453	2	Standard
⎡>	**Ge**	**72**		ug/L				18952	1	KED
⎢	**Ni**	**60**		ug/L				4	24	KED
⎢	**Ni**	**62**		ug/L				3	124	KED
⎢	**Cu**	**63**		ug/L				24	12	KED
⎢	**Cu**	**65**		ug/L				10	57	KED
⎢	**Zn**	**66**		ug/L				17	19	KED
⎢	**Zn**	**67**		ug/L				4	49	KED
⎣	**As**	**75**		ug/L				4	39	KED
	Y	**89**		ug/L				210580	1	Standard
	Kr	**83**		ug/L				48	8	Standard
⎡>	**In-1**	**115**		ug/L				4998	2	KED
⎢	**Cd**	**111**		ug/L				2	33	KED
⎣	**Cd**	**114**		ug/L				5	68	KED
⎡>	**Tb**	**159**		ug/L				413412	2	Standard
⎣	**Pb**	**208**		ug/L				107	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 21:54:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	29142	3	Standard
	Cl	**37**		ug/L			4447895	4968310	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	420684	2	Standard
⎢	**Cr**	**52**	**50.339**	ug/L	1.004	1	10056	725567	2	Standard
⎢	**Cr**	**53**	**50.179**	ug/L	1.055	2	251	82865	0	Standard
⎣	**Mn**	**55**	**53.871**	ug/L	0.266	0	453	1029683	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	19192	2	KED
⎢	**Ni**	**60**	**50.334**	ug/L	0.449	0	4	37044	3	KED
⎢	**Ni**	**62**	**48.261**	ug/L	0.738	1	3	5907	4	KED
⎢	**Cu**	**63**	**51.317**	ug/L	0.926	1	24	109341	4	KED
⎢	**Cu**	**65**	**51.462**	ug/L	1.018	1	10	54338	2	KED
⎢	**Zn**	**66**	**49.592**	ug/L	0.512	1	17	14390	1	KED
⎢	**Zn**	**67**	**51.800**	ug/L	0.262	0	4	2517	2	KED
⎣	**As**	**75**	**50.326**	ug/L	0.179	0	4	7737	2	KED
	Y	**89**		ug/L			210580	216786	2	Standard
	Kr	**83**		ug/L			48	82	8	Standard
⎡>	**In-1**	**115**		ug/L			4998	5204	1	KED
⎢	**Cd**	**111**	**49.021**	ug/L	0.585	1	2	8458	1	KED
⎣	**Cd**	**114**	**49.924**	ug/L	0.885	1	5	20951	2	KED
⎡>	**Tb**	**159**		ug/L			413412	428074	1	Standard
⎣	**Pb**	**208**	**52.722**	ug/L	0.436	0	107	1735341	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:01:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	25565	2	Standard
	Cl	**37**		ug/L			4447895	4371777	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	400179	2	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.018	248	10056	9813	0	Standard
⎢	**Cr**	**53**	**-0.012**	ug/L	0.013	110	251	230	9	Standard
⎣	**Mn**	**55**	**-0.000**	ug/L	0.001	173	453	440	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18662	0	KED
⎢	**Ni**	**60**	**0.002**	ug/L	0.005	245	4	5	57	KED
⎢	**Ni**	**62**	**0.032**	ug/L	0.009	27	3	6	15	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.004	154	24	29	32	KED
⎢	**Cu**	**65**	**0.003**	ug/L	0.002	84	10	12	17	KED
⎢	**Zn**	**66**	**0.010**	ug/L	0.008	76	17	19	11	KED
⎢	**Zn**	**67**	**-0.052**	ug/L	0.041	77	4	1	100	KED
⎣	**As**	**75**	**0.014**	ug/L	0.020	140	4	6	44	KED
	Y	**89**		ug/L			210580	208389	1	Standard
	Kr	**83**		ug/L			48	57	20	Standard
⎡>	**In-1**	**115**		ug/L			4998	5081	1	KED
⎢	**Cd**	**111**	**0.015**	ug/L	0.003	20	2	5	10	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.005	97	5	3	51	KED
⎡>	**Tb**	**159**		ug/L			413412	414028	0	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.000	11	107	206	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0559-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:09:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	45121	0	Standard
	Cl	**37**		ug/L			4447895	4618776	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	454337	1	Standard
|	**Cr**	**52**	**0.201**	ug/L	0.016	7	10056	14343	2	Standard
|	**Cr**	**53**	**1.064**	ug/L	0.009	0	251	2173	1	Standard
⌊	**Mn**	**55**	**9.686**	ug/L	0.067	0	453	200387	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	19472	1	KED
|	**Ni**	**60**	**1.311**	ug/L	0.052	3	4	983	3	KED
|	**Ni**	**62**	**1.273**	ug/L	0.081	6	3	161	6	KED
|	**Cu**	**63**	**1.103**	ug/L	0.034	3	24	2407	2	KED
|	**Cu**	**65**	**1.098**	ug/L	0.047	4	10	1186	3	KED
|	**Zn**	**66**	**71.151**	ug/L	1.276	1	17	20942	1	KED
|	**Zn**	**67**	**65.515**	ug/L	0.427	0	4	3228	1	KED
⌊	**As**	**75**	**0.351**	ug/L	0.059	16	4	59	15	KED
	Y	**89**		ug/L			210580	214679	1	Standard
	Kr	**83**		ug/L			48	63	16	Standard
⌈>	**In-1**	**115**		ug/L			4998	5173	0	KED
|	**Cd**	**111**	**0.033**	ug/L	0.005	15	2	8	11	KED
⌊	**Cd**	**114**	**0.020**	ug/L	0.010	46	5	14	28	KED
⌈>	**Tb**	**159**		ug/L			413412	426924	0	Standard
⌊	**Pb**	**208**	**0.426**	ug/L	0.003	0	107	14095	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0238-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:13:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25899	377904	2	Standard
	Cl	37		ug/L			4447895	4989957	0	Standard
>	Sc	45		ug/L			405870	436803	1	Standard
	Cr	52	5.836	ug/L	0.047	0	10056	96918	0	Standard
	Cr	53	4.987	ug/L	0.150	3	251	8795	2	Standard
	Mn	55	31.423	ug/L	0.271	0	453	623864	1	Standard
>	Ge	72		ug/L			18952	18190	1	KED
	Ni	60	8.119	ug/L	0.277	3	4	5666	3	KED
	Ni	62	8.205	ug/L	0.158	1	3	954	2	KED
	Cu	63	0.741	ug/L	0.052	7	24	1518	8	KED
	Cu	65	0.792	ug/L	0.029	3	10	801	2	KED
	Zn	66	20.396	ug/L	0.181	0	17	5620	1	KED
	Zn	67	18.567	ug/L	0.943	5	4	857	5	KED
	As	75	0.167	ug/L	0.015	9	4	28	8	KED
	Y	89		ug/L			210580	211902	3	Standard
	Kr	83		ug/L			48	71	16	Standard
>	In-1	115		ug/L			4998	4831	2	KED
	Cd	111	0.161	ug/L	0.025	15	2	28	15	KED
	Cd	114	0.136	ug/L	0.039	29	5	58	24	KED
>	Tb	159		ug/L			413412	401688	1	Standard
	Pb	208	0.033	ug/L	0.001	4	107	1132	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0239-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:18:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25899	130123	2	Standard
	Cl	37		ug/L			4447895	5071376	1	Standard
>	Sc	45		ug/L			405870	463598	1	Standard
	Cr	52	44.601	ug/L	0.151	0	10056	709888	2	Standard
	Cr	53	44.463	ug/L	0.283	0	251	80979	2	Standard
	Mn	55	457.392	ug/L	2.186	0	453	9631631	2	Standard
>	Ge	72		ug/L			18952	18129	0	KED
	Ni	60	11.123	ug/L	0.141	1	4	7736	1	KED
	Ni	62	11.049	ug/L	0.678	6	3	1279	5	KED
	Cu	63	1.172	ug/L	0.057	4	24	2380	4	KED
	Cu	65	1.153	ug/L	0.006	0	10	1159	0	KED
	Zn	66	35.847	ug/L	0.400	1	17	9831	0	KED
	Zn	67	33.086	ug/L	1.493	4	4	1520	4	KED
	As	75	0.416	ug/L	0.031	7	4	64	7	KED
	Y	89		ug/L			210580	218388	2	Standard
	Kr	83		ug/L			48	69	17	Standard
>	In-1	115		ug/L			4998	4316	14	KED
	Cd	111	0.418	ug/L	0.047	11	2	61	4	KED
	Cd	114	0.400	ug/L	0.069	17	5	143	20	KED
>	Tb	159		ug/L			413412	417085	2	Standard
	Pb	208	0.119	ug/L	0.002	1	107	3935	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-21
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:24:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	40731	1	Standard
	Cl	**37**		ug/L			4447895	4899058	2	Standard
⌈>	**Sc**	**45**		ug/L			405870	431385	2	Standard
|	**Cr**	**52**	**2.172**	ug/L	0.033	1	10056	42335	2	Standard
|	**Cr**	**53**	**2.180**	ug/L	0.024	1	251	3949	2	Standard
⌊	**Mn**	**55**	**24.993**	ug/L	0.380	1	453	490075	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	19210	1	KED
|	**Ni**	**60**	**2.066**	ug/L	0.049	2	4	1525	1	KED
|	**Ni**	**62**	**2.054**	ug/L	0.082	4	3	254	3	KED
|	**Cu**	**63**	**3.166**	ug/L	0.079	2	24	6773	2	KED
|	**Cu**	**65**	**3.161**	ug/L	0.001	0	10	3351	1	KED
|	**Zn**	**66**	**55.421**	ug/L	1.071	1	17	16099	2	KED
|	**Zn**	**67**	**50.282**	ug/L	2.784	5	4	2445	5	KED
⌊	**As**	**75**	**55.064**	ug/L	0.667	1	4	8473	1	KED
	Y	**89**		ug/L			210580	240212	3	Standard
	Kr	**83**		ug/L			48	57	15	Standard
⌈>	**In-1**	**115**		ug/L			4998	5180	0	KED
|	**Cd**	**111**	**0.022**	ug/L	0.015	67	2	6	37	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.005	154	5	4	54	KED
⌈>	**Tb**	**159**		ug/L			413412	420916	2	Standard
⌊	**Pb**	**208**	**0.293**	ug/L	0.008	2	107	9597	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-16
Sample Dil Factor: 200
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:28:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	38029	0	Standard
	Cl	**37**		ug/L			4447895	4767191	1	Standard
⌈>	**Sc**	**45**		ug/L			405870	419216	3	Standard
|	**Cr**	**52**	**1.204**	ug/L	0.043	3	10056	27422	1	Standard
|	**Cr**	**53**	**1.187**	ug/L	0.040	3	251	2209	6	Standard
⌊	**Mn**	**55**	**11.071**	ug/L	0.048	0	453	211261	3	Standard
⌈>	**Ge**	**72**		ug/L			18952	18762	2	KED
|	**Ni**	**60**	**1.076**	ug/L	0.107	9	4	779	12	KED
|	**Ni**	**62**	**1.075**	ug/L	0.129	11	3	131	8	KED
|	**Cu**	**63**	**1.937**	ug/L	0.041	2	24	4055	1	KED
|	**Cu**	**65**	**1.875**	ug/L	0.076	4	10	1944	4	KED
|	**Zn**	**66**	**2.459**	ug/L	0.177	7	17	713	6	KED
|	**Zn**	**67**	**2.443**	ug/L	0.525	21	4	120	19	KED
⌊	**As**	**75**	**65.325**	ug/L	0.745	1	4	9815	2	KED
	Y	**89**		ug/L			210580	223973	2	Standard
	Kr	**83**		ug/L			48	64	10	Standard
⌈>	**In-1**	**115**		ug/L			4998	4833	4	KED
|	**Cd**	**111**	**0.009**	ug/L	0.018	208	2	4	70	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	83	5	4	29	KED
⌈>	**Tb**	**159**		ug/L			413412	414953	1	Standard
⌊	**Pb**	**208**	**0.140**	ug/L	0.003	2	107	4573	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-12
Sample Dil Factor: 500
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:33:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	37899	1	Standard
	Cl	**37**		ug/L			4447895	4670129	1	Standard
⌈>	**Sc**	**45**		ug/L			405870	400647	0	Standard
|	**Cr**	**52**	**0.397**	ug/L	0.008	2	10056	15298	1	Standard
|	**Cr**	**53**	**0.362**	ug/L	0.030	8	251	815	5	Standard
⌊	**Mn**	**55**	**5.219**	ug/L	0.131	2	453	95395	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	19017	0	KED
|	**Ni**	**60**	**0.374**	ug/L	0.017	4	4	276	4	KED
|	**Ni**	**62**	**0.314**	ug/L	0.065	20	3	41	19	KED
|	**Cu**	**63**	**1.346**	ug/L	0.032	2	24	2864	2	KED
|	**Cu**	**65**	**1.371**	ug/L	0.068	4	10	1444	5	KED
|	**Zn**	**66**	**1.514**	ug/L	0.006	0	17	452	0	KED
|	**Zn**	**67**	**1.308**	ug/L	0.172	13	4	67	11	KED
⌊	**As**	**75**	**45.614**	ug/L	0.239	0	4	6949	0	KED
	Y	**89**		ug/L			210580	213185	1	Standard
	Kr	**83**		ug/L			48	48	12	Standard
⌈>	**In-1**	**115**		ug/L			4998	5051	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.006	111	2	3	25	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	116	5	7	25	KED
⌈>	**Tb**	**159**		ug/L			413412	407563	0	Standard
⌊	**Pb**	**208**	**0.063**	ug/L	0.002	3	107	2067	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-14
Sample Dil Factor: 500
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:37:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	37145	0	Standard
	Cl	**37**		ug/L			4447895	4696402	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	418771	2	Standard
|	**Cr**	**52**	**0.425**	ug/L	0.025	5	10056	16387	2	Standard
|	**Cr**	**53**	**0.392**	ug/L	0.044	11	251	900	4	Standard
⌊	**Mn**	**55**	**5.289**	ug/L	0.105	1	453	101020	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18603	0	KED
|	**Ni**	**60**	**0.559**	ug/L	0.052	9	4	403	9	KED
|	**Ni**	**62**	**0.440**	ug/L	0.060	13	3	55	12	KED
|	**Cu**	**63**	**0.961**	ug/L	0.036	3	24	2007	4	KED
|	**Cu**	**65**	**0.964**	ug/L	0.044	4	10	996	3	KED
|	**Zn**	**66**	**1.287**	ug/L	0.065	5	17	378	5	KED
|	**Zn**	**67**	**1.407**	ug/L	0.389	27	4	70	25	KED
⌊	**As**	**75**	**49.814**	ug/L	0.379	0	4	7423	0	KED
	Y	**89**		ug/L			210580	219460	2	Standard
	Kr	**83**		ug/L			48	60	21	Standard
⌈>	**In-1**	**115**		ug/L			4998	5151	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	266	2	2	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.000	34	5	5	0	KED
⌈>	**Tb**	**159**		ug/L			413412	415261	2	Standard
⌊	**Pb**	**208**	**0.064**	ug/L	0.002	3	107	2142	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-15
Sample Dil Factor: 500
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:41:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	37557	1	Standard
	Cl	**37**		ug/L			4447895	4715938	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	409848	4	Standard
|	**Cr**	**52**	**0.478**	ug/L	0.069	14	10056	16742	1	Standard
|	**Cr**	**53**	**0.439**	ug/L	0.024	5	251	957	1	Standard
⌊	**Mn**	**55**	**6.055**	ug/L	0.173	2	453	113082	2	Standard
⌈>	**Ge**	**72**		ug/L			18952	19009	1	KED
|	**Ni**	**60**	**0.592**	ug/L	0.069	11	4	435	11	KED
|	**Ni**	**62**	**0.656**	ug/L	0.147	22	3	82	20	KED
|	**Cu**	**63**	**0.973**	ug/L	0.004	0	24	2077	0	KED
|	**Cu**	**65**	**0.987**	ug/L	0.048	4	10	1041	3	KED
|	**Zn**	**66**	**1.360**	ug/L	0.141	10	17	407	10	KED
|	**Zn**	**67**	**1.282**	ug/L	0.130	10	4	66	8	KED
⌊	**As**	**75**	**48.465**	ug/L	0.564	1	4	7380	1	KED
	Y	**89**		ug/L			210580	219430	4	Standard
	Kr	**83**		ug/L			48	66	18	Standard
⌈>	**In-1**	**115**		ug/L			4998	5095	3	KED
|	**Cd**	**111**	**0.026**	ug/L	0.012	46	2	7	30	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.019	540	5	4	186	KED
⌈>	**Tb**	**159**		ug/L			413412	416088	3	Standard
⌊	**Pb**	**208**	**0.082**	ug/L	0.005	5	107	2718	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-13
Sample Dil Factor: 1000
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:46:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	34519	1	Standard
	Cl	**37**		ug/L			4447895	4657704	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	403036	2	Standard
|	**Cr**	**52**	**0.175**	ug/L	0.017	9	10056	12364	3	Standard
|	**Cr**	**53**	**0.153**	ug/L	0.010	6	251	490	1	Standard
⌊	**Mn**	**55**	**2.555**	ug/L	0.087	3	453	47204	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18942	1	KED
|	**Ni**	**60**	**0.188**	ug/L	0.009	4	4	140	5	KED
|	**Ni**	**62**	**0.230**	ug/L	0.155	67	3	31	61	KED
|	**Cu**	**63**	**0.617**	ug/L	0.026	4	24	1320	2	KED
|	**Cu**	**65**	**0.619**	ug/L	0.023	3	10	655	2	KED
|	**Zn**	**66**	**0.733**	ug/L	0.164	22	17	227	22	KED
|	**Zn**	**67**	**0.891**	ug/L	0.282	31	4	46	27	KED
⌊	**As**	**75**	**55.050**	ug/L	0.829	1	4	8352	0	KED
	Y	**89**		ug/L			210580	208948	1	Standard
	Kr	**83**		ug/L			48	60	45	Standard
⌈>	**In-1**	**115**		ug/L			4998	4976	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.009	93	2	4	32	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.005	50	5	1	108	KED
⌈>	**Tb**	**159**		ug/L			413412	406623	0	Standard
⌊	**Pb**	**208**	**0.036**	ug/L	0.002	5	107	1245	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 22:56:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	30580	5	Standard
	Cl	**37**		ug/L			4447895	4595031	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	396661	1	Standard
⎢	**Cr**	**52**	**0.005**	ug/L	0.014	293	10056	9890	0	Standard
⎢	**Cr**	**53**	**-0.025**	ug/L	0.013	53	251	207	10	Standard
⎣	**Mn**	**55**	**0.002**	ug/L	0.001	53	453	471	3	Standard
⎡>	**Ge**	**72**		ug/L			18952	18619	2	KED
⎢	**Ni**	**60**	**0.011**	ug/L	0.007	62	4	12	39	KED
⎢	**Ni**	**62**	**0.016**	ug/L	0.040	250	3	5	94	KED
⎢	**Cu**	**63**	**0.241**	ug/L	0.020	8	24	521	5	KED
⎢	**Cu**	**65**	**0.254**	ug/L	0.004	1	10	269	4	KED
⎢	**Zn**	**66**	**0.257**	ug/L	0.047	18	17	88	12	KED
⎢	**Zn**	**67**	**0.099**	ug/L	0.170	171	4	8	86	KED
⎣	**As**	**75**	**0.011**	ug/L	0.006	51	4	6	13	KED
	Y	**89**		ug/L			210580	206783	0	Standard
	Kr	**83**		ug/L			48	52	38	Standard
⎡>	**In-1**	**115**		ug/L			4998	5019	2	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.010	180	2	1	86	KED
⎣	**Cd**	**114**	**-0.011**	ug/L	0.005	47	5	1	203	KED
⎡>	**Tb**	**159**		ug/L			413412	406798	2	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	22	107	161	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:01:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	29011	1	Standard
	Cl	**37**		ug/L			4447895	4963138	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	416970	1	Standard
⎢	**Cr**	**52**	**49.693**	ug/L	0.705	1	10056	710120	1	Standard
⎢	**Cr**	**53**	**50.187**	ug/L	0.869	1	251	82173	2	Standard
⎣	**Mn**	**55**	**52.635**	ug/L	0.623	1	453	997216	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18869	2	KED
⎢	**Ni**	**60**	**50.812**	ug/L	0.495	0	4	36762	1	KED
⎢	**Ni**	**62**	**49.853**	ug/L	2.004	4	3	5994	1	KED
⎢	**Cu**	**63**	**50.577**	ug/L	0.994	1	24	105927	2	KED
⎢	**Cu**	**65**	**50.550**	ug/L	0.662	1	10	52477	1	KED
⎢	**Zn**	**66**	**49.768**	ug/L	0.448	0	17	14199	1	KED
⎢	**Zn**	**67**	**49.584**	ug/L	0.951	1	4	2368	0	KED
⎣	**As**	**75**	**49.719**	ug/L	0.359	0	4	7515	1	KED
	Y	**89**		ug/L			210580	211432	2	Standard
	Kr	**83**		ug/L			48	67	11	Standard
⎡>	**In-1**	**115**		ug/L			4998	4841	0	KED
⎢	**Cd**	**111**	**49.393**	ug/L	0.738	1	2	7928	1	KED
⎣	**Cd**	**114**	**51.010**	ug/L	1.374	2	5	19912	2	KED
⎡>	**Tb**	**159**		ug/L			413412	420431	2	Standard
⎣	**Pb**	**208**	**52.822**	ug/L	0.761	1	107	1707296	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:12:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	27167	0	Standard
	Cl	**37**		ug/L			4447895	4681808	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	406323	0	Standard
⎢	**Cr**	**52**	**-0.026**	ug/L	0.015	58	10056	9715	1	Standard
⎢	**Cr**	**53**	**-0.029**	ug/L	0.008	28	251	206	6	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.000	12	453	432	0	Standard
⎡>	**Ge**	**72**		ug/L			18952	17963	0	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.003	475	4	3	50	KED
⎢	**Ni**	**62**	**-0.004**	ug/L	0.025	614	3	2	114	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	95	24	15	42	KED
⎢	**Cu**	**65**	**0.008**	ug/L	0.005	67	10	17	29	KED
⎢	**Zn**	**66**	**0.003**	ug/L	0.025	769	17	17	40	KED
⎢	**Zn**	**67**	**-0.023**	ug/L	0.064	279	4	3	91	KED
⎣	**As**	**75**	**0.008**	ug/L	0.004	47	4	5	9	KED
	Y	**89**		ug/L			210580	211700	0	Standard
	Kr	**83**		ug/L			48	61	20	Standard
⎡>	**In-1**	**115**		ug/L			4998	4957	2	KED
⎢	**Cd**	**111**	**0.014**	ug/L	0.007	48	2	5	21	KED
⎣	**Cd**	**114**	**-0.008**	ug/L	0.003	38	5	2	47	KED
⎡>	**Tb**	**159**		ug/L			413412	415809	2	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.000	13	107	203	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0265-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:19:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	45822	1	Standard
	Cl	**37**		ug/L			4447895	4614668	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	411555	1	Standard
⎢	**Cr**	**52**	**0.341**	ug/L	0.006	1	10056	14942	0	Standard
⎢	**Cr**	**53**	**0.317**	ug/L	0.013	4	251	765	1	Standard
⎣	**Mn**	**55**	**0.568**	ug/L	0.015	2	453	11078	2	Standard
⎡>	**Ge**	**72**		ug/L			18952	18547	1	KED
⎢	**Ni**	**60**	**0.136**	ug/L	0.009	6	4	100	8	KED
⎢	**Ni**	**62**	**0.098**	ug/L	0.026	27	3	14	19	KED
⎢	**Cu**	**63**	**1.062**	ug/L	0.027	2	24	2209	0	KED
⎢	**Cu**	**65**	**1.106**	ug/L	0.084	7	10	1137	5	KED
⎢	**Zn**	**66**	**45.986**	ug/L	0.873	1	17	12896	1	KED
⎢	**Zn**	**67**	**42.378**	ug/L	0.928	2	4	1991	3	KED
⎣	**As**	**75**	**0.137**	ug/L	0.034	24	4	24	18	KED
	Y	**89**		ug/L			210580	207628	2	Standard
	Kr	**83**		ug/L			48	45	9	Standard
⎡>	**In-1**	**115**		ug/L			4998	4981	2	KED
⎢	**Cd**	**111**	**0.019**	ug/L	0.017	90	2	6	48	KED
⎣	**Cd**	**114**	**0.010**	ug/L	0.002	20	5	9	10	KED
⎡>	**Tb**	**159**		ug/L			413412	411173	1	Standard
⎣	**Pb**	**208**	**0.119**	ug/L	0.005	4	107	3870	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0323-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:24:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	67015	0	Standard
	Cl	**37**		ug/L			4447895	8875996	1	Standard
⌈>	**Sc**	**45**		ug/L			405870	406737	1	Standard
|	**Cr**	**52**	**1.104**	ug/L	0.057	5	10056	25229	1	Standard
|	**Cr**	**53**	**12.900**	ug/L	0.133	1	251	20788	0	Standard
⌊	**Mn**	**55**	**21.720**	ug/L	0.204	0	453	401650	0	Standard
⌈>	**Ge**	**72**		ug/L			18952	17148	1	KED
|	**Ni**	**60**	**1.643**	ug/L	0.025	1	4	1084	1	KED
|	**Ni**	**62**	**1.743**	ug/L	0.260	14	3	193	13	KED
|	**Cu**	**63**	**6.820**	ug/L	0.109	1	24	13004	3	KED
|	**Cu**	**65**	**6.859**	ug/L	0.080	1	10	6479	0	KED
|	**Zn**	**66**	**52.720**	ug/L	1.448	2	17	13674	4	KED
|	**Zn**	**67**	**48.834**	ug/L	2.228	4	4	2120	5	KED
⌊	**As**	**75**	**0.509**	ug/L	0.032	6	4	74	7	KED
	Y	**89**		ug/L			210580	202817	1	Standard
	Kr	**83**		ug/L			48	88	8	Standard
⌈>	**In-1**	**115**		ug/L			4998	4428	1	KED
|	**Cd**	**111**	**0.067**	ug/L	0.018	27	2	12	23	KED
⌊	**Cd**	**114**	**0.046**	ug/L	0.024	51	5	21	40	KED
⌈>	**Tb**	**159**		ug/L			413412	408316	1	Standard
⌊	**Pb**	**208**	**2.570**	ug/L	0.007	0	107	80802	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0323-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:28:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	48386	1	Standard
	Cl	**37**		ug/L			4447895	5211028	2	Standard
⌈>	**Sc**	**45**		ug/L			405870	421741	2	Standard
|	**Cr**	**52**	**1.168**	ug/L	0.009	0	10056	27090	2	Standard
|	**Cr**	**53**	**2.146**	ug/L	0.044	2	251	3803	0	Standard
⌊	**Mn**	**55**	**10.604**	ug/L	0.181	1	453	203598	3	Standard
⌈>	**Ge**	**72**		ug/L			18952	18138	0	KED
|	**Ni**	**60**	**1.566**	ug/L	0.053	3	4	1093	2	KED
|	**Ni**	**62**	**1.644**	ug/L	0.085	5	3	193	4	KED
|	**Cu**	**63**	**23.835**	ug/L	0.176	0	24	48000	1	KED
|	**Cu**	**65**	**23.687**	ug/L	0.443	1	10	23644	1	KED
|	**Zn**	**66**	**158.781**	ug/L	2.185	1	17	43517	1	KED
|	**Zn**	**67**	**144.061**	ug/L	3.307	2	4	6608	2	KED
⌊	**As**	**75**	**0.743**	ug/L	0.025	3	4	112	3	KED
	Y	**89**		ug/L			210580	212803	0	Standard
	Kr	**83**		ug/L			48	65	8	Standard
⌈>	**In-1**	**115**		ug/L			4998	4920	2	KED
|	**Cd**	**111**	**0.115**	ug/L	0.032	28	2	21	24	KED
⌊	**Cd**	**114**	**0.093**	ug/L	0.022	23	5	42	22	KED
⌈>	**Tb**	**159**		ug/L			413412	422105	1	Standard
⌊	**Pb**	**208**	**2.088**	ug/L	0.011	0	107	67882	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0323-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:32:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	48641	2	Standard
	Cl	**37**		ug/L			4447895	4818745	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	419478	0	Standard
⎢	**Cr**	**52**	**0.491**	ug/L	0.019	3	10056	17344	0	Standard
⎢	**Cr**	**53**	**0.828**	ug/L	0.024	2	251	1618	1	Standard
⎣	**Mn**	**55**	**81.855**	ug/L	1.020	1	453	1559878	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18243	0	KED
⎢	**Ni**	**60**	**10.502**	ug/L	0.020	0	4	7350	0	KED
⎢	**Ni**	**62**	**10.062**	ug/L	0.831	8	3	1172	7	KED
⎢	**Cu**	**63**	**7.661**	ug/L	0.052	0	24	15533	0	KED
⎢	**Cu**	**65**	**7.711**	ug/L	0.211	2	10	7749	3	KED
⎢	**Zn**	**66**	**109.798**	ug/L	1.113	1	17	30269	0	KED
⎢	**Zn**	**67**	**97.271**	ug/L	1.746	1	4	4488	1	KED
⎣	**As**	**75**	**0.805**	ug/L	0.005	0	4	122	0	KED
	Y	**89**		ug/L			210580	206352	1	Standard
	Kr	**83**		ug/L			48	54	19	Standard
⎡>	**In-1**	**115**		ug/L			4998	4777	2	KED
⎢	**Cd**	**111**	**0.043**	ug/L	0.008	17	2	9	10	KED
⎣	**Cd**	**114**	**0.040**	ug/L	0.011	27	5	20	18	KED
⎡>	**Tb**	**159**		ug/L			413412	411910	0	Standard
⎣	**Pb**	**208**	**0.974**	ug/L	0.016	1	107	30953	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:37:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	46497	2	Standard
	Cl	**37**		ug/L			4447895	5048579	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	406075	1	Standard
⎢	**Cr**	**52**	**0.452**	ug/L	0.046	10	10056	16260	2	Standard
⎢	**Cr**	**53**	**1.254**	ug/L	0.020	1	251	2244	1	Standard
⎣	**Mn**	**55**	**7.201**	ug/L	0.103	1	453	133248	0	Standard
⎡>	**Ge**	**72**		ug/L			18952	18389	1	KED
⎢	**Ni**	**60**	**0.701**	ug/L	0.045	6	4	498	4	KED
⎢	**Ni**	**62**	**0.737**	ug/L	0.124	16	3	89	16	KED
⎢	**Cu**	**63**	**2.658**	ug/L	0.086	3	24	5446	2	KED
⎢	**Cu**	**65**	**2.637**	ug/L	0.092	3	10	2678	5	KED
⎢	**Zn**	**66**	**122.102**	ug/L	1.561	1	17	33926	0	KED
⎢	**Zn**	**67**	**109.592**	ug/L	0.622	0	4	5097	1	KED
⎣	**As**	**75**	**0.220**	ug/L	0.030	13	4	36	13	KED
	Y	**89**		ug/L			210580	205355	2	Standard
	Kr	**83**		ug/L			48	50	17	Standard
⎡>	**In-1**	**115**		ug/L			4998	4486	4	KED
⎢	**Cd**	**111**	**1.116**	ug/L	0.105	9	2	168	12	KED
⎣	**Cd**	**114**	**1.152**	ug/L	0.135	11	5	421	12	KED
⎡>	**Tb**	**159**		ug/L			413412	407253	1	Standard
⎣	**Pb**	**208**	**0.074**	ug/L	0.004	4	107	2422	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0339-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:41:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	50409	2	Standard
	Cl	**37**		ug/L			4447895	4891847	2	Standard
⌈>	**Sc**	**45**		ug/L			405870	402289	0	Standard
|	**Cr**	**52**	**0.521**	ug/L	0.018	3	10056	17045	1	Standard
|	**Cr**	**53**	**1.240**	ug/L	0.034	2	251	2202	2	Standard
⌊	**Mn**	**55**	**8.295**	ug/L	0.214	2	453	151995	2	Standard
⌈>	**Ge**	**72**		ug/L			18952	18673	0	KED
|	**Ni**	**60**	**0.621**	ug/L	0.058	9	4	448	9	KED
|	**Ni**	**62**	**0.683**	ug/L	0.109	15	3	84	15	KED
|	**Cu**	**63**	**3.302**	ug/L	0.057	1	24	6867	1	KED
|	**Cu**	**65**	**3.368**	ug/L	0.078	2	10	3470	3	KED
|	**Zn**	**66**	**49.219**	ug/L	0.779	1	17	13898	1	KED
|	**Zn**	**67**	**45.413**	ug/L	1.223	2	4	2147	2	KED
⌊	**As**	**75**	**0.436**	ug/L	0.036	8	4	69	8	KED
	Y	**89**		ug/L			210580	208234	0	Standard
	Kr	**83**		ug/L			48	62	13	Standard
⌈>	**In-1**	**115**		ug/L			4998	4998	1	KED
|	**Cd**	**111**	**0.123**	ug/L	0.022	18	2	23	14	KED
⌊	**Cd**	**114**	**0.139**	ug/L	0.027	19	5	61	17	KED
⌈>	**Tb**	**159**		ug/L			413412	411874	1	Standard
⌊	**Pb**	**208**	**0.291**	ug/L	0.005	1	107	9307	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0344-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:46:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	44435	0	Standard
	Cl	**37**		ug/L			4447895	4877008	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	382883	1	Standard
|	**Cr**	**52**	**1.721**	ug/L	0.022	1	10056	31742	1	Standard
|	**Cr**	**53**	**2.456**	ug/L	0.056	2	251	3917	1	Standard
⌊	**Mn**	**55**	**1.023**	ug/L	0.022	2	453	18213	3	Standard
⌈>	**Ge**	**72**		ug/L			18952	16076	0	KED
|	**Ni**	**60**	**0.409**	ug/L	0.015	3	4	255	3	KED
|	**Ni**	**62**	**0.649**	ug/L	0.071	10	3	69	10	KED
|	**Cu**	**63**	**5.011**	ug/L	0.027	0	24	8959	0	KED
|	**Cu**	**65**	**5.118**	ug/L	0.007	0	10	4535	0	KED
|	**Zn**	**66**	**26.531**	ug/L	0.231	0	17	6456	0	KED
|	**Zn**	**67**	**25.926**	ug/L	0.501	1	4	1057	2	KED
⌊	**As**	**75**	**1.015**	ug/L	0.033	3	4	134	2	KED
	Y	**89**		ug/L			210580	199149	0	Standard
	Kr	**83**		ug/L			48	69	21	Standard
⌈>	**In-1**	**115**		ug/L			4998	4352	2	KED
|	**Cd**	**111**	**0.095**	ug/L	0.019	20	2	16	15	KED
⌊	**Cd**	**114**	**0.074**	ug/L	0.021	27	5	30	23	KED
⌈>	**Tb**	**159**		ug/L			413412	398612	1	Standard
⌊	**Pb**	**208**	**0.287**	ug/L	0.007	2	107	8910	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0345-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:51:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	48830	2	Standard
	Cl	**37**		ug/L			4447895	5828073	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	412544	1	Standard
⎢	**Cr**	**52**	**0.405**	ug/L	0.023	5	10056	15857	1	Standard
⎢	**Cr**	**53**	**2.053**	ug/L	0.032	1	251	3570	2	Standard
⎣	**Mn**	**55**	**5.624**	ug/L	0.031	0	453	105844	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18074	1	KED
⎢	**Ni**	**60**	**0.658**	ug/L	0.027	4	4	460	2	KED
⎢	**Ni**	**62**	**0.696**	ug/L	0.071	10	3	83	10	KED
⎢	**Cu**	**63**	**3.913**	ug/L	0.027	0	24	7872	2	KED
⎢	**Cu**	**65**	**3.814**	ug/L	0.079	2	10	3801	0	KED
⎢	**Zn**	**66**	**12.951**	ug/L	0.202	1	17	3552	3	KED
⎢	**Zn**	**67**	**12.495**	ug/L	0.768	6	4	574	4	KED
⎣	**As**	**75**	**1.672**	ug/L	0.112	6	4	246	4	KED
	Y	**89**		ug/L			210580	206389	1	Standard
	Kr	**83**		ug/L			48	56	22	Standard
⎡>	**In-1**	**115**		ug/L			4998	4919	2	KED
⎢	**Cd**	**111**	**0.047**	ug/L	0.017	35	2	10	24	KED
⎣	**Cd**	**114**	**0.032**	ug/L	0.012	36	5	18	22	KED
⎡>	**Tb**	**159**		ug/L			413412	419769	1	Standard
⎣	**Pb**	**208**	**0.163**	ug/L	0.006	3	107	5357	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0370-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 03, 2023 23:56:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	75036	1	Standard
	Cl	**37**		ug/L			4447895	4767062	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	403016	0	Standard
|	**Cr**	**52**	**0.659**	ug/L	0.016	2	10056	18954	0	Standard
|	**Cr**	**53**	**0.913**	ug/L	0.027	2	251	1690	2	Standard
⌊	**Mn**	**55**	**85.618**	ug/L	1.127	1	453	1567578	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18684	1	KED
|	**Ni**	**60**	**0.400**	ug/L	0.018	4	4	290	4	KED
|	**Ni**	**62**	**0.390**	ug/L	0.086	22	3	49	20	KED
|	**Cu**	**63**	**1.065**	ug/L	0.050	4	24	2232	4	KED
|	**Cu**	**65**	**1.063**	ug/L	0.108	10	10	1102	9	KED
|	**Zn**	**66**	**10.700**	ug/L	0.372	3	17	3035	1	KED
|	**Zn**	**67**	**10.641**	ug/L	1.007	9	4	507	10	KED
⌊	**As**	**75**	**0.752**	ug/L	0.054	7	4	117	8	KED
	Y	**89**		ug/L			210580	208394	2	Standard
	Kr	**83**		ug/L			48	59	17	Standard
⌈>	**In-1**	**115**		ug/L			4998	4948	1	KED
|	**Cd**	**111**	**0.043**	ug/L	0.022	50	2	9	36	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.024	137	5	12	77	KED
⌈>	**Tb**	**159**		ug/L			413412	421330	0	Standard
⌊	**Pb**	**208**	**0.192**	ug/L	0.002	1	107	6340	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:00:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	31506	3	Standard
	Cl	**37**		ug/L			4447895	4720377	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	399098	0	Standard
⎢	**Cr**	**52**	**-0.001**	ug/L	0.013	871	10056	9868	1	Standard
⎢	**Cr**	**53**	**0.113**	ug/L	0.023	20	251	423	8	Standard
⎣	**Mn**	**55**	**0.000**	ug/L	0.002	838	453	448	6	Standard
⎡>	**Ge**	**72**		ug/L			18952	17887	2	KED
⎢	**Ni**	**60**	**0.012**	ug/L	0.006	52	4	12	32	KED
⎢	**Ni**	**62**	**0.013**	ug/L	0.043	323	3	4	107	KED
⎢	**Cu**	**63**	**0.118**	ug/L	0.021	17	24	255	13	KED
⎢	**Cu**	**65**	**0.125**	ug/L	0.008	5	10	132	5	KED
⎢	**Zn**	**66**	**0.095**	ug/L	0.027	28	17	41	19	KED
⎢	**Zn**	**67**	**-0.008**	ug/L	0.002	24	4	3	0	KED
⎣	**As**	**75**	**0.008**	ug/L	0.018	213	4	5	47	KED
	Y	**89**		ug/L			210580	203387	1	Standard
	Kr	**83**		ug/L			48	57	33	Standard
⎡>	**In-1**	**115**		ug/L			4998	4738	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.014	491	2	2	98	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.006	226	5	6	34	KED
⎡>	**Tb**	**159**		ug/L			413412	416333	1	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	84	107	121	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:04:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	28916	2	Standard
	Cl	**37**		ug/L			4447895	4918350	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	402542	0	Standard
⎢	**Cr**	**52**	**49.712**	ug/L	0.505	1	10056	685834	0	Standard
⎢	**Cr**	**53**	**49.630**	ug/L	0.984	1	251	78443	1	Standard
⎣	**Mn**	**55**	**52.756**	ug/L	0.325	0	453	964947	0	Standard
⎡>	**Ge**	**72**		ug/L			18952	18373	1	KED
⎢	**Ni**	**60**	**49.445**	ug/L	0.704	1	4	34830	1	KED
⎢	**Ni**	**62**	**50.519**	ug/L	1.460	2	3	5916	1	KED
⎢	**Cu**	**63**	**51.616**	ug/L	0.575	1	24	105272	2	KED
⎢	**Cu**	**65**	**51.078**	ug/L	0.782	1	10	51641	2	KED
⎢	**Zn**	**66**	**49.993**	ug/L	1.495	2	17	13885	1	KED
⎢	**Zn**	**67**	**51.390**	ug/L	2.216	4	4	2389	2	KED
⎣	**As**	**75**	**50.424**	ug/L	0.931	1	4	7420	0	KED
	Y	**89**		ug/L			210580	205161	2	Standard
	Kr	**83**		ug/L			48	64	10	Standard
⎡>	**In-1**	**115**		ug/L			4998	4913	2	KED
⎢	**Cd**	**111**	**50.209**	ug/L	1.821	3	2	8175	1	KED
⎣	**Cd**	**114**	**50.012**	ug/L	1.031	2	5	19806	0	KED
⎡>	**Tb**	**159**		ug/L			413412	427121	1	Standard
⎣	**Pb**	**208**	**51.558**	ug/L	0.430	0	107	1693150	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:12:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	26301	1	Standard
	Cl	**37**		ug/L			4447895	4625269	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	399720	0	Standard
⎢	**Cr**	**52**	**-0.024**	ug/L	0.022	94	10056	9583	2	Standard
⎢	**Cr**	**53**	**0.055**	ug/L	0.016	29	251	334	7	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.000	43	453	464	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18695	1	KED
⎢	**Ni**	**60**	**0.000**	ug/L	0.003	2775	4	4	49	KED
⎢	**Ni**	**62**	**0.006**	ug/L	0.016	283	3	3	50	KED
⎢	**Cu**	**63**	**0.004**	ug/L	0.004	126	24	31	28	KED
⎢	**Cu**	**65**	**0.013**	ug/L	0.011	83	10	23	47	KED
⎢	**Zn**	**66**	**0.005**	ug/L	0.005	88	17	18	5	KED
⎢	**Zn**	**67**	**0.068**	ug/L	0.038	55	4	7	25	KED
⎣	**As**	**75**	**0.005**	ug/L	0.004	77	4	5	9	KED
	Y	**89**		ug/L			210580	206568	1	Standard
	Kr	**83**		ug/L			48	67	11	Standard
⎡>	**In-1**	**115**		ug/L			4998	5038	2	KED
⎢	**Cd**	**111**	**0.015**	ug/L	0.026	177	2	5	83	KED
⎣	**Cd**	**114**	**0.014**	ug/L	0.008	57	5	11	28	KED
⎡>	**Tb**	**159**		ug/L			413412	416423	1	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.001	44	107	193	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0346-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:16:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25899	47483	0	Standard
	Cl	37		ug/L			4447895	5607132	0	Standard
>	Sc	45		ug/L			405870	536846	1	Standard
	Cr	52	0.740	ug/L	0.021	2	10056	26724	1	Standard
	Cr	53	1.438	ug/L	0.034	2	251	3353	1	Standard
	Mn	55	2852.245	ug/L	27.400	0	453	69540701	0	Standard
>	Ge	72		ug/L			18952	18446	2	KED
	Ni	60	1.617	ug/L	0.024	1	4	1147	1	KED
	Ni	62	1.725	ug/L	0.090	5	3	205	3	KED
	Cu	63	0.850	ug/L	0.050	5	24	1761	3	KED
	Cu	65	0.811	ug/L	0.007	0	10	833	1	KED
	Zn	66	29.527	ug/L	0.150	0	17	8243	1	KED
	Zn	67	31.288	ug/L	1.163	3	4	1462	1	KED
	As	75	1.123	ug/L	0.104	9	4	170	8	KED
	Y	89		ug/L			210580	219423	2	Standard
	Kr	83		ug/L			48	66	8	Standard
>	In-1	115		ug/L			4998	4787	1	KED
	Cd	111	0.071	ug/L	0.022	30	2	13	25	KED
	Cd	114	0.060	ug/L	0.014	23	5	28	18	KED
>	Tb	159		ug/L			413412	424224	0	Standard
	Pb	208	0.055	ug/L	0.001	1	107	1905	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0347-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:20:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	46005	1	Standard
	Cl	**37**		ug/L			4447895	5126852	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	477078	1	Standard
⎢	**Cr**	**52**	**0.657**	ug/L	0.013	2	10056	22404	1	Standard
⎢	**Cr**	**53**	**1.965**	ug/L	0.023	1	251	3965	1	Standard
⎣	**Mn**	**55**	**28.585**	ug/L	0.216	0	453	619914	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18146	1	KED
⎢	**Ni**	**60**	**1.421**	ug/L	0.076	5	4	992	3	KED
⎢	**Ni**	**62**	**1.264**	ug/L	0.068	5	3	149	6	KED
⎢	**Cu**	**63**	**6.189**	ug/L	0.231	3	24	12485	3	KED
⎢	**Cu**	**65**	**5.970**	ug/L	0.246	4	10	5966	2	KED
⎢	**Zn**	**66**	**19.013**	ug/L	0.410	2	17	5228	3	KED
⎢	**Zn**	**67**	**20.860**	ug/L	0.500	2	4	960	0	KED
⎣	**As**	**75**	**0.405**	ug/L	0.054	13	4	63	12	KED
	Y	**89**		ug/L			210580	216090	0	Standard
	Kr	**83**		ug/L			48	57	24	Standard
⎡>	**In-1**	**115**		ug/L			4998	4866	2	KED
⎢	**Cd**	**111**	**0.028**	ug/L	0.014	49	2	7	30	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.009	223	5	6	47	KED
⎡>	**Tb**	**159**		ug/L			413412	412630	1	Standard
⎣	**Pb**	**208**	**0.411**	ug/L	0.007	1	107	13135	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0347-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:25:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	41716	2	Standard
	Cl	**37**		ug/L			4447895	4823902	1	Standard
⌈>	**Sc**	**45**		ug/L			405870	423986	1	Standard
|	**Cr**	**52**	**1.979**	ug/L	0.027	1	10056	38838	1	Standard
|	**Cr**	**53**	**2.208**	ug/L	0.041	1	251	3927	0	Standard
⌊	**Mn**	**55**	**44.953**	ug/L	0.668	1	453	866118	2	Standard
⌈>	**Ge**	**72**		ug/L			18952	18631	0	KED
|	**Ni**	**60**	**1.571**	ug/L	0.035	2	4	1126	1	KED
|	**Ni**	**62**	**1.610**	ug/L	0.179	11	3	194	11	KED
|	**Cu**	**63**	**6.558**	ug/L	0.160	2	24	13581	1	KED
|	**Cu**	**65**	**6.589**	ug/L	0.037	0	10	6764	0	KED
|	**Zn**	**66**	**78.027**	ug/L	1.288	1	17	21973	1	KED
|	**Zn**	**67**	**71.925**	ug/L	3.006	4	4	3391	4	KED
⌊	**As**	**75**	**0.752**	ug/L	0.051	6	4	116	6	KED
	Y	**89**		ug/L			210580	226780	1	Standard
	Kr	**83**		ug/L			48	52	8	Standard
⌈>	**In-1**	**115**		ug/L			4998	4948	3	KED
|	**Cd**	**111**	**0.025**	ug/L	0.009	35	2	6	20	KED
⌊	**Cd**	**114**	**0.018**	ug/L	0.006	30	5	12	17	KED
⌈>	**Tb**	**159**		ug/L			413412	420318	0	Standard
⌊	**Pb**	**208**	**1.298**	ug/L	0.019	1	107	42044	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0348-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:29:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	51099	1	Standard
	Cl	**37**		ug/L			4447895	6005476	1	Standard
⌈>	**Sc**	**45**		ug/L			405870	414078	1	Standard
|	**Cr**	**52**	**0.567**	ug/L	0.022	3	10056	18183	0	Standard
|	**Cr**	**53**	**3.650**	ug/L	0.070	1	251	6172	0	Standard
⌊	**Mn**	**55**	**61.827**	ug/L	2.159	3	453	1162765	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18200	2	KED
|	**Ni**	**60**	**1.158**	ug/L	0.028	2	4	812	1	KED
|	**Ni**	**62**	**1.175**	ug/L	0.155	13	3	139	10	KED
|	**Cu**	**63**	**4.386**	ug/L	0.182	4	24	8874	1	KED
|	**Cu**	**65**	**4.492**	ug/L	0.179	3	10	4504	1	KED
|	**Zn**	**66**	**199.083**	ug/L	3.596	1	17	54730	1	KED
|	**Zn**	**67**	**185.646**	ug/L	5.658	3	4	8539	0	KED
⌊	**As**	**75**	**0.687**	ug/L	0.063	9	4	104	6	KED
	Y	**89**		ug/L			210580	207745	1	Standard
	Kr	**83**		ug/L			48	48	6	Standard
⌈>	**In-1**	**115**		ug/L			4998	4913	2	KED
|	**Cd**	**111**	**0.386**	ug/L	0.038	9	2	65	10	KED
⌊	**Cd**	**114**	**0.380**	ug/L	0.054	14	5	155	13	KED
⌈>	**Tb**	**159**		ug/L			413412	420201	1	Standard
⌊	**Pb**	**208**	**1.028**	ug/L	0.009	0	107	33324	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0348-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:33:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	46684	1	Standard
	Cl	**37**		ug/L			4447895	5590325	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	410660	0	Standard
⎢	**Cr**	**52**	**0.375**	ug/L	0.029	7	10056	15374	1	Standard
⎢	**Cr**	**53**	**2.672**	ug/L	0.043	1	251	4550	1	Standard
⎣	**Mn**	**55**	**18.197**	ug/L	0.149	0	453	339840	0	Standard
⎡>	**Ge**	**72**		ug/L			18952	17643	2	KED
⎢	**Ni**	**60**	**0.292**	ug/L	0.012	3	4	201	5	KED
⎢	**Ni**	**62**	**0.312**	ug/L	0.039	12	3	38	13	KED
⎢	**Cu**	**63**	**1.671**	ug/L	0.065	3	24	3293	3	KED
⎢	**Cu**	**65**	**1.683**	ug/L	0.114	6	10	1642	6	KED
⎢	**Zn**	**66**	**16.744**	ug/L	0.983	5	17	4478	6	KED
⎢	**Zn**	**67**	**14.801**	ug/L	1.137	7	4	663	5	KED
⎣	**As**	**75**	**0.409**	ug/L	0.044	10	4	62	11	KED
	Y	**89**		ug/L			210580	208802	1	Standard
	Kr	**83**		ug/L			48	52	2	Standard
⎡>	**In-1**	**115**		ug/L			4998	4838	1	KED
⎢	**Cd**	**111**	**0.038**	ug/L	0.020	52	2	8	34	KED
⎣	**Cd**	**114**	**0.037**	ug/L	0.014	38	5	19	29	KED
⎡>	**Tb**	**159**		ug/L			413412	420696	0	Standard
⎣	**Pb**	**208**	**0.381**	ug/L	0.000	0	107	12429	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0349-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:38:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	44553	1	Standard
	Cl	**37**		ug/L			4447895	4932628	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	405939	0	Standard
⎢	**Cr**	**52**	**0.400**	ug/L	0.012	2	10056	15548	1	Standard
⎢	**Cr**	**53**	**0.687**	ug/L	0.019	2	251	1343	2	Standard
⎣	**Mn**	**55**	**37.305**	ug/L	0.393	1	453	688254	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18395	4	KED
⎢	**Ni**	**60**	**0.951**	ug/L	0.072	7	4	674	4	KED
⎢	**Ni**	**62**	**0.956**	ug/L	0.107	11	3	114	9	KED
⎢	**Cu**	**63**	**1.109**	ug/L	0.055	4	24	2285	3	KED
⎢	**Cu**	**65**	**1.081**	ug/L	0.046	4	10	1102	0	KED
⎢	**Zn**	**66**	**161.253**	ug/L	5.878	3	17	44776	0	KED
⎢	**Zn**	**67**	**145.100**	ug/L	7.212	4	4	6741	2	KED
⎣	**As**	**75**	**0.161**	ug/L	0.015	9	4	28	10	KED
	Y	**89**		ug/L			210580	207939	0	Standard
	Kr	**83**		ug/L			48	60	12	Standard
⎡>	**In-1**	**115**		ug/L			4998	5070	1	KED
⎢	**Cd**	**111**	**0.038**	ug/L	0.002	6	2	9	5	KED
⎣	**Cd**	**114**	**0.053**	ug/L	0.025	47	5	26	36	KED
⎡>	**Tb**	**159**		ug/L			413412	412154	0	Standard
⎣	**Pb**	**208**	**0.289**	ug/L	0.004	1	107	9257	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0351-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:42:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	46895	0	Standard
	Cl	**37**		ug/L			4447895	4800589	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	435008	0	Standard
|	**Cr**	**52**	**1.829**	ug/L	0.013	0	10056	37648	0	Standard
|	**Cr**	**53**	**2.370**	ug/L	0.069	2	251	4305	2	Standard
⌊	**Mn**	**55**	**16.288**	ug/L	0.201	1	453	322285	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18179	2	KED
|	**Ni**	**60**	**0.923**	ug/L	0.032	3	4	646	1	KED
|	**Ni**	**62**	**0.916**	ug/L	0.081	8	3	109	9	KED
|	**Cu**	**63**	**16.352**	ug/L	0.527	3	24	32998	1	KED
|	**Cu**	**65**	**16.024**	ug/L	0.358	2	10	16032	1	KED
|	**Zn**	**66**	**36.272**	ug/L	0.528	1	17	9974	0	KED
|	**Zn**	**67**	**32.564**	ug/L	1.068	3	4	1499	1	KED
⌊	**As**	**75**	**1.502**	ug/L	0.136	9	4	223	9	KED
	Y	**89**		ug/L			210580	215107	1	Standard
	Kr	**83**		ug/L			48	50	15	Standard
⌈>	**In-1**	**115**		ug/L			4998	4961	1	KED
|	**Cd**	**111**	**0.056**	ug/L	0.010	17	2	12	12	KED
⌊	**Cd**	**114**	**0.020**	ug/L	0.018	92	5	13	53	KED
⌈>	**Tb**	**159**		ug/L			413412	422911	0	Standard
⌊	**Pb**	**208**	**1.524**	ug/L	0.007	0	107	49659	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0351-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:47:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	46118	2	Standard
	Cl	**37**		ug/L			4447895	4712792	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	443617	0	Standard
⎢	**Cr**	**52**	**1.468**	ug/L	0.017	1	10056	32989	1	Standard
⎢	**Cr**	**53**	**1.990**	ug/L	0.048	2	251	3730	1	Standard
⎣	**Mn**	**55**	**13.281**	ug/L	0.391	2	453	268047	2	Standard
⎡>	**Ge**	**72**		ug/L			18952	18418	1	KED
⎢	**Ni**	**60**	**0.711**	ug/L	0.025	3	4	506	4	KED
⎢	**Ni**	**62**	**0.844**	ug/L	0.139	16	3	102	16	KED
⎢	**Cu**	**63**	**16.581**	ug/L	0.304	1	24	33909	1	KED
⎢	**Cu**	**65**	**16.743**	ug/L	0.280	1	10	16972	0	KED
⎢	**Zn**	**66**	**22.386**	ug/L	0.384	1	17	6243	2	KED
⎢	**Zn**	**67**	**20.908**	ug/L	1.123	5	4	977	6	KED
⎣	**As**	**75**	**1.313**	ug/L	0.069	5	4	197	3	KED
	Y	**89**		ug/L			210580	215682	0	Standard
	Kr	**83**		ug/L			48	60	12	Standard
⎡>	**In-1**	**115**		ug/L			4998	5049	1	KED
⎢	**Cd**	**111**	**0.028**	ug/L	0.009	33	2	7	21	KED
⎣	**Cd**	**114**	**0.023**	ug/L	0.005	21	5	14	14	KED
⎡>	**Tb**	**159**		ug/L			413412	415328	0	Standard
⎣	**Pb**	**208**	**1.140**	ug/L	0.012	1	107	36496	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0353-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:51:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	49385	2	Standard
	Cl	**37**		ug/L			4447895	4729355	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	402365	0	Standard
⎢	**Cr**	**52**	**0.807**	ug/L	0.017	2	10056	20930	1	Standard
⎢	**Cr**	**53**	**1.174**	ug/L	0.010	0	251	2098	0	Standard
⎣	**Mn**	**55**	**10.902**	ug/L	0.189	1	453	199678	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	18378	1	KED
⎢	**Ni**	**60**	**1.426**	ug/L	0.023	1	4	1008	2	KED
⎢	**Ni**	**62**	**1.399**	ug/L	0.101	7	3	166	7	KED
⎢	**Cu**	**63**	**8.992**	ug/L	0.125	1	24	18361	0	KED
⎢	**Cu**	**65**	**8.961**	ug/L	0.334	3	10	9067	2	KED
⎢	**Zn**	**66**	**106.397**	ug/L	1.002	0	17	29549	1	KED
⎢	**Zn**	**67**	**96.022**	ug/L	1.721	1	4	4464	2	KED
⎣	**As**	**75**	**0.213**	ug/L	0.022	10	4	35	9	KED
	Y	**89**		ug/L			210580	216031	4	Standard
	Kr	**83**		ug/L			48	58	25	Standard
⎡>	**In-1**	**115**		ug/L			4998	4935	3	KED
⎢	**Cd**	**111**	**0.057**	ug/L	0.004	7	2	12	4	KED
⎣	**Cd**	**114**	**0.041**	ug/L	0.033	79	5	22	60	KED
⎡>	**Tb**	**159**		ug/L			413412	422118	1	Standard
⎣	**Pb**	**208**	**1.256**	ug/L	0.022	1	107	40858	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 00:55:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	31253	1	Standard
	Cl	**37**		ug/L			4447895	4602113	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	399031	1	Standard
⎢	**Cr**	**52**	**0.008**	ug/L	0.014	186	10056	9987	0	Standard
⎢	**Cr**	**53**	**0.098**	ug/L	0.009	9	251	400	4	Standard
⎣	**Mn**	**55**	**0.002**	ug/L	0.002	63	453	489	7	Standard
⎡>	**Ge**	**72**		ug/L			18952	18559	1	KED
⎢	**Ni**	**60**	**0.004**	ug/L	0.003	88	4	6	31	KED
⎢	**Ni**	**62**	**-0.005**	ug/L	0.024	499	3	2	114	KED
⎢	**Cu**	**63**	**0.103**	ug/L	0.012	12	24	235	9	KED
⎢	**Cu**	**65**	**0.110**	ug/L	0.008	7	10	122	7	KED
⎢	**Zn**	**66**	**0.055**	ug/L	0.040	72	17	32	35	KED
⎢	**Zn**	**67**	**0.070**	ug/L	0.043	62	4	7	25	KED
⎣	**As**	**75**	**0.001**	ug/L	0.020	3811	4	4	65	KED
	Y	**89**		ug/L			210580	204633	2	Standard
	Kr	**83**		ug/L			48	59	6	Standard
⎡>	**In-1**	**115**		ug/L			4998	4925	2	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.012	195	2	3	50	KED
⎣	**Cd**	**114**	**-0.011**	ug/L	0.006	51	5	1	202	KED
⎡>	**Tb**	**159**		ug/L			413412	409304	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	32	107	135	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:00:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	29136	0	Standard
	Cl	**37**		ug/L			4447895	4970392	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	393804	2	Standard
⎢	**Cr**	**52**	**50.190**	ug/L	0.115	0	10056	677309	2	Standard
⎢	**Cr**	**53**	**51.071**	ug/L	1.133	2	251	78950	2	Standard
⎣	**Mn**	**55**	**53.443**	ug/L	0.544	1	453	956244	2	Standard
⎡>	**Ge**	**72**		ug/L			18952	17819	2	KED
⎢	**Ni**	**60**	**51.566**	ug/L	0.912	1	4	35227	0	KED
⎢	**Ni**	**62**	**50.824**	ug/L	1.844	3	3	5772	2	KED
⎢	**Cu**	**63**	**51.692**	ug/L	1.151	2	24	102212	0	KED
⎢	**Cu**	**65**	**52.036**	ug/L	0.935	1	10	51011	0	KED
⎢	**Zn**	**66**	**50.724**	ug/L	2.159	4	17	13660	2	KED
⎢	**Zn**	**67**	**52.479**	ug/L	2.128	4	4	2366	2	KED
⎣	**As**	**75**	**51.215**	ug/L	1.090	2	4	7309	0	KED
	Y	**89**		ug/L			210580	206121	1	Standard
	Kr	**83**		ug/L			48	71	12	Standard
⎡>	**In-1**	**115**		ug/L			4998	4840	3	KED
⎢	**Cd**	**111**	**50.326**	ug/L	1.640	3	2	8071	0	KED
⎣	**Cd**	**114**	**50.383**	ug/L	1.998	3	5	19648	1	KED
⎡>	**Tb**	**159**		ug/L			413412	418356	0	Standard
⎣	**Pb**	**208**	**52.115**	ug/L	1.095	2	107	1676279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:07:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	27273	1	Standard
	Cl	**37**		ug/L			4447895	4572939	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	392928	0	Standard
⎢	**Cr**	**52**	**-0.003**	ug/L	0.010	366	10056	9700	0	Standard
⎢	**Cr**	**53**	**0.045**	ug/L	0.010	23	251	312	4	Standard
⎣	**Mn**	**55**	**0.013**	ug/L	0.002	13	453	661	4	Standard
⎡>	**Ge**	**72**		ug/L			18952	18316	0	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.003	199	4	3	69	KED
⎢	**Ni**	**62**	**0.017**	ug/L	0.009	54	3	5	21	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.001	51	24	29	9	KED
⎢	**Cu**	**65**	**0.007**	ug/L	0.005	71	10	16	29	KED
⎢	**Zn**	**66**	**0.050**	ug/L	0.007	14	17	30	6	KED
⎢	**Zn**	**67**	**0.003**	ug/L	0.063	2002	4	4	65	KED
⎣	**As**	**75**	**0.004**	ug/L	0.007	156	4	5	19	KED
	Y	**89**		ug/L			210580	204502	2	Standard
	Kr	**83**		ug/L			48	55	24	Standard
⎡>	**In-1**	**115**		ug/L			4998	4948	2	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.011	189	2	3	50	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.009	704	5	5	78	KED
⎡>	**Tb**	**159**		ug/L			413412	401365	1	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.001	22	107	182	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:11:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	43243	1	Standard
	Cl	**37**		ug/L			4447895	4614093	1	Standard
⌈>	**Sc**	**45**		ug/L			405870	402243	1	Standard
|	**Cr**	**52**	**0.371**	ug/L	0.025	6	10056	15003	1	Standard
|	**Cr**	**53**	**0.591**	ug/L	0.001	0	251	1179	1	Standard
⌊	**Mn**	**55**	**1.228**	ug/L	0.015	1	453	22886	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18777	1	KED
|	**Ni**	**60**	**0.257**	ug/L	0.068	26	4	188	23	KED
|	**Ni**	**62**	**0.255**	ug/L	0.073	28	3	33	26	KED
|	**Cu**	**63**	**1.052**	ug/L	0.060	5	24	2215	5	KED
|	**Cu**	**65**	**1.052**	ug/L	0.079	7	10	1095	5	KED
|	**Zn**	**66**	**18.204**	ug/L	0.444	2	17	5178	1	KED
|	**Zn**	**67**	**17.174**	ug/L	0.530	3	4	819	1	KED
⌊	**As**	**75**	**0.068**	ug/L	0.017	25	4	14	16	KED
	Y	**89**		ug/L			210580	210900	3	Standard
	Kr	**83**		ug/L			48	60	25	Standard
⌈>	**In-1**	**115**		ug/L			4998	4927	3	KED
|	**Cd**	**111**	**0.176**	ug/L	0.042	23	2	31	25	KED
⌊	**Cd**	**114**	**0.208**	ug/L	0.017	8	5	87	4	KED
⌈>	**Tb**	**159**		ug/L			413412	420752	1	Standard
⌊	**Pb**	**208**	**0.091**	ug/L	0.003	3	107	3068	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:16:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	47821	1	Standard
	Cl	**37**		ug/L			4447895	5792780	2	Standard
>	**Sc**	**45**		ug/L			405870	639697	1	Standard
	Cr	**52**	**0.014**	ug/L	0.018	125	10056	16157	0	Standard
	Cr	**53**	**1.717**	ug/L	0.030	1	251	4695	1	Standard
	Mn	**55**	**1379.010**	ug/L	5.704	0	453	40064328	1	Standard
>	**Ge**	**72**		ug/L			18952	17692	2	KED
	Ni	**60**	**3.319**	ug/L	0.104	3	4	2254	1	KED
	Ni	**62**	**3.306**	ug/L	0.295	8	3	375	6	KED
	Cu	**63**	**0.037**	ug/L	0.006	15	24	94	14	KED
	Cu	**65**	**0.046**	ug/L	0.009	19	10	53	14	KED
	Zn	**66**	**1.371**	ug/L	0.161	11	17	382	12	KED
	Zn	**67**	**1.485**	ug/L	0.100	6	4	70	4	KED
	As	**75**	**3.579**	ug/L	0.211	5	4	510	3	KED
	Y	**89**		ug/L			210580	206435	2	Standard
	Kr	**83**		ug/L			48	49	19	Standard
>	**In-1**	**115**		ug/L			4998	4789	0	KED
	Cd	**111**	**0.011**	ug/L	0.018	169	2	4	65	KED
	Cd	**114**	**0.001**	ug/L	0.005	863	5	5	33	KED
>	**Tb**	**159**		ug/L			413412	428994	0	Standard
	Pb	**208**	**0.011**	ug/L	0.001	10	107	489	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-08
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:20:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25899	50423	2	Standard
Cl	37		ug/L			4447895	4907662	1	Standard
> Sc	45		ug/L			405870	592364	1	Standard
Cr	52	0.128	ug/L	0.030	23	10056	17228	1	Standard
Cr	53	0.822	ug/L	0.025	2	251	2273	1	Standard
Mn	55	1436.859	ug/L	16.510	1	453	38655331	1	Standard
> Ge	72		ug/L			18952	17594	1	KED
Ni	60	2.187	ug/L	0.069	3	4	1480	4	KED
Ni	62	2.233	ug/L	0.058	2	3	253	1	KED
Cu	63	0.102	ug/L	0.019	18	24	222	15	KED
Cu	65	0.083	ug/L	0.015	17	10	90	14	KED
Zn	66	3.314	ug/L	0.012	0	17	896	1	KED
Zn	67	3.163	ug/L	0.227	7	4	144	6	KED
As	75	2.930	ug/L	0.154	5	4	416	4	KED
Y	89		ug/L			210580	208228	1	Standard
Kr	83		ug/L			48	52	14	Standard
> In-1	115		ug/L			4998	4893	2	KED
Cd	111	0.010	ug/L	0.004	37	2	4	12	KED
Cd	114	-0.009	ug/L	0.003	28	5	1	56	KED
> Tb	159		ug/L			413412	421164	1	Standard
Pb	208	0.009	ug/L	0.000	5	107	407	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-10
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	52685	0	Standard
	Cl	**37**		ug/L			4447895	4674281	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	467322	2	Standard
⎢	**Cr**	**52**	**0.345**	ug/L	0.029	8	10056	17009	0	Standard
⎢	**Cr**	**53**	**0.763**	ug/L	0.024	3	251	1684	0	Standard
⎣	**Mn**	**55**	**270.911**	ug/L	7.081	2	453	5748140	0	Standard
⎡>	**Ge**	**72**		ug/L			18952	17142	0	KED
⎢	**Ni**	**60**	**6.978**	ug/L	0.105	1	4	4590	1	KED
⎢	**Ni**	**62**	**7.252**	ug/L	0.754	10	3	794	10	KED
⎢	**Cu**	**63**	**2.873**	ug/L	0.079	2	24	5488	3	KED
⎢	**Cu**	**65**	**2.769**	ug/L	0.119	4	10	2620	4	KED
⎢	**Zn**	**66**	**2.066**	ug/L	0.114	5	17	550	5	KED
⎢	**Zn**	**67**	**3.702**	ug/L	0.392	10	4	164	10	KED
⎣	**As**	**75**	**0.414**	ug/L	0.029	6	4	60	6	KED
	Y	**89**		ug/L			210580	210480	2	Standard
	Kr	**83**		ug/L			48	64	18	Standard
⎡>	**In-1**	**115**		ug/L			4998	4662	0	KED
⎢	**Cd**	**111**	**0.036**	ug/L	0.019	52	2	8	35	KED
⎣	**Cd**	**114**	**0.033**	ug/L	0.012	35	5	17	25	KED
⎡>	**Tb**	**159**		ug/L			413412	405266	0	Standard
⎣	**Pb**	**208**	**0.008**	ug/L	0.000	2	107	363	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-12
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:29:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	49764	1	Standard
	Cl	**37**		ug/L			4447895	5425075	0	Standard
>	**Sc**	**45**		ug/L			405870	567129	0	Standard
	Cr	**52**	**0.065**	ug/L	0.008	12	10056	15288	1	Standard
	Cr	**53**	**0.650**	ug/L	0.010	1	251	1795	1	Standard
	Mn	**55**	**1866.571**	ug/L	16.440	0	453	48076875	0	Standard
>	**Ge**	**72**		ug/L			18952	17746	1	KED
	Ni	**60**	**1.478**	ug/L	0.082	5	4	1009	3	KED
	Ni	**62**	**1.338**	ug/L	0.020	1	3	154	1	KED
	Cu	**63**	**0.096**	ug/L	0.007	7	24	210	6	KED
	Cu	**65**	**0.081**	ug/L	0.002	3	10	88	1	KED
	Zn	**66**	**0.986**	ug/L	0.113	11	17	280	12	KED
	Zn	**67**	**1.098**	ug/L	0.146	13	4	53	10	KED
	As	**75**	**1.006**	ug/L	0.070	6	4	147	5	KED
	Y	**89**		ug/L			210580	204824	2	Standard
	Kr	**83**		ug/L			48	63	21	Standard
>	**In-1**	**115**		ug/L			4998	4681	2	KED
	Cd	**111**	**0.001**	ug/L	0.023	1796	2	2	120	KED
	Cd	**114**	**-0.001**	ug/L	0.006	500	5	4	48	KED
>	**Tb**	**159**		ug/L			413412	410199	1	Standard
	Pb	**208**	**0.009**	ug/L	0.001	7	107	386	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-14
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:33:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	48741	1	Standard
	Cl	**37**		ug/L			4447895	5294601	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	633129	0	Standard
|	**Cr**	**52**	**0.069**	ug/L	0.007	9	10056	17156	0	Standard
|	**Cr**	**53**	**0.514**	ug/L	0.004	0	251	1666	0	Standard
⌊	**Mn**	**55**	**1321.702**	ug/L	26.605	2	453	38007742	2	Standard
⌈>	**Ge**	**72**		ug/L			18952	17729	1	KED
|	**Ni**	**60**	**2.164**	ug/L	0.044	2	4	1475	3	KED
|	**Ni**	**62**	**2.092**	ug/L	0.010	0	3	239	1	KED
|	**Cu**	**63**	**0.049**	ug/L	0.005	9	24	118	8	KED
|	**Cu**	**65**	**0.051**	ug/L	0.002	4	10	59	1	KED
|	**Zn**	**66**	**2.995**	ug/L	0.128	4	17	818	5	KED
|	**Zn**	**67**	**3.040**	ug/L	0.177	5	4	140	4	KED
⌊	**As**	**75**	**2.703**	ug/L	0.066	2	4	387	2	KED
	Y	**89**		ug/L			210580	206867	1	Standard
	Kr	**83**		ug/L			48	58	6	Standard
⌈>	**In-1**	**115**		ug/L			4998	4761	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.009	320	2	3	45	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.005	53	5	1	116	KED
⌈>	**Tb**	**159**		ug/L			413412	422207	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	11	107	324	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:37:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	44707	1	Standard
	Cl	**37**		ug/L			4447895	4634476	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	419507	1	Standard
|	**Cr**	**52**	**0.271**	ug/L	0.019	7	10056	14238	1	Standard
|	**Cr**	**53**	**0.708**	ug/L	0.030	4	251	1423	2	Standard
⌊	**Mn**	**55**	**48.309**	ug/L	0.780	1	453	920818	0	Standard
⌈>	**Ge**	**72**		ug/L			18952	18596	2	KED
|	**Ni**	**60**	**0.588**	ug/L	0.036	6	4	423	7	KED
|	**Ni**	**62**	**0.804**	ug/L	0.039	4	3	98	4	KED
|	**Cu**	**63**	**1.441**	ug/L	0.031	2	24	2995	0	KED
|	**Cu**	**65**	**1.373**	ug/L	0.033	2	10	1414	3	KED
|	**Zn**	**66**	**33.069**	ug/L	0.417	1	17	9303	1	KED
|	**Zn**	**67**	**33.424**	ug/L	2.031	6	4	1574	5	KED
⌊	**As**	**75**	**0.344**	ug/L	0.032	9	4	55	9	KED
	Y	**89**		ug/L			210580	214392	3	Standard
	Kr	**83**		ug/L			48	52	4	Standard
⌈>	**In-1**	**115**		ug/L			4998	4984	2	KED
|	**Cd**	**111**	**0.235**	ug/L	0.052	22	2	41	20	KED
⌊	**Cd**	**114**	**0.225**	ug/L	0.054	23	5	95	20	KED
⌈>	**Tb**	**159**		ug/L			413412	418340	1	Standard
⌊	**Pb**	**208**	**0.090**	ug/L	0.002	1	107	3012	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0699-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:42:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	46220	0	Standard
	Cl	**37**		ug/L			4447895	4471165	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	417464	1	Standard
|	**Cr**	**52**	**0.292**	ug/L	0.021	7	10056	14464	2	Standard
|	**Cr**	**53**	**0.735**	ug/L	0.035	4	251	1460	2	Standard
⌊	**Mn**	**55**	**49.196**	ug/L	0.300	0	453	933197	0	Standard
⌈>	**Ge**	**72**		ug/L			18952	18446	2	KED
|	**Ni**	**60**	**0.681**	ug/L	0.015	2	4	485	2	KED
|	**Ni**	**62**	**0.577**	ug/L	0.108	18	3	71	19	KED
|	**Cu**	**63**	**1.379**	ug/L	0.032	2	24	2845	0	KED
|	**Cu**	**65**	**1.354**	ug/L	0.058	4	10	1383	3	KED
|	**Zn**	**66**	**34.335**	ug/L	0.584	1	17	9581	1	KED
|	**Zn**	**67**	**32.608**	ug/L	1.632	5	4	1524	5	KED
⌊	**As**	**75**	**0.309**	ug/L	0.075	24	4	50	20	KED
	Y	**89**		ug/L			210580	204964	1	Standard
	Kr	**83**		ug/L			48	47	21	Standard
⌈>	**In-1**	**115**		ug/L			4998	5003	1	KED
|	**Cd**	**111**	**0.253**	ug/L	0.053	20	2	44	18	KED
⌊	**Cd**	**114**	**0.203**	ug/L	0.027	13	5	87	13	KED
⌈>	**Tb**	**159**		ug/L			413412	416903	1	Standard
⌊	**Pb**	**208**	**0.097**	ug/L	0.002	1	107	3219	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0699-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:48:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	44766	1	Standard
	Cl	**37**		ug/L			4447895	4628099	1	Standard
⌈>	**Sc**	**45**		ug/L			405870	415847	1	Standard
|	**Cr**	**52**	**25.766**	ug/L	0.312	1	10056	372180	1	Standard
|	**Cr**	**53**	**25.966**	ug/L	0.601	2	251	42526	2	Standard
⌊	**Mn**	**55**	**76.439**	ug/L	0.976	1	453	1444051	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18335	1	KED
|	**Ni**	**60**	**27.162**	ug/L	0.703	2	4	19099	2	KED
|	**Ni**	**62**	**27.201**	ug/L	1.580	5	3	3180	4	KED
|	**Cu**	**63**	**28.024**	ug/L	0.367	1	24	57040	1	KED
|	**Cu**	**65**	**28.455**	ug/L	0.436	1	10	28712	1	KED
|	**Zn**	**66**	**117.809**	ug/L	3.555	3	17	32634	1	KED
|	**Zn**	**67**	**107.273**	ug/L	1.702	1	4	4976	3	KED
⌊	**As**	**75**	**25.677**	ug/L	0.584	2	4	3773	1	KED
	Y	**89**		ug/L			210580	206001	2	Standard
	Kr	**83**		ug/L			48	64	12	Standard
⌈>	**In-1**	**115**		ug/L			4998	4966	1	KED
|	**Cd**	**111**	**25.627**	ug/L	0.618	2	2	4221	3	KED
⌊	**Cd**	**114**	**25.818**	ug/L	0.470	1	5	10341	2	KED
⌈>	**Tb**	**159**		ug/L			413412	417220	0	Standard
⌊	**Pb**	**208**	**27.653**	ug/L	0.266	0	107	887149	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:52:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	31281	1	Standard
	Cl	**37**		ug/L			4447895	4455249	1	Standard
⎡>	**Sc**	**45**		ug/L			405870	390986	1	Standard
⎢	**Cr**	**52**	**-0.000**	ug/L	0.009	7319	10056	9684	0	Standard
⎢	**Cr**	**53**	**0.075**	ug/L	0.007	8	251	357	3	Standard
⎣	**Mn**	**55**	**0.004**	ug/L	0.000	1	453	506	2	Standard
⎡>	**Ge**	**72**		ug/L			18952	17540	0	KED
⎢	**Ni**	**60**	**0.003**	ug/L	0.006	177	4	6	62	KED
⎢	**Ni**	**62**	**0.019**	ug/L	0.035	184	3	5	78	KED
⎢	**Cu**	**63**	**0.125**	ug/L	0.020	16	24	265	14	KED
⎢	**Cu**	**65**	**0.117**	ug/L	0.006	4	10	121	4	KED
⎢	**Zn**	**66**	**0.077**	ug/L	0.026	33	17	36	18	KED
⎢	**Zn**	**67**	**0.107**	ug/L	0.138	128	4	8	68	KED
⎣	**As**	**75**	**0.006**	ug/L	0.015	262	4	5	42	KED
	Y	**89**		ug/L			210580	199783	3	Standard
	Kr	**83**		ug/L			48	57	11	Standard
⎡>	**In-1**	**115**		ug/L			4998	4822	0	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.015	324	2	3	68	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.008	766	5	4	59	KED
⎡>	**Tb**	**159**		ug/L			413412	406124	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	9	107	151	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 01:57:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	29175	1	Standard
	Cl	**37**		ug/L			4447895	4765482	0	Standard
⎡>	**Sc**	**45**		ug/L			405870	386930	0	Standard
⎢	**Cr**	**52**	**51.282**	ug/L	0.993	1	10056	679702	1	Standard
⎢	**Cr**	**53**	**51.043**	ug/L	0.701	1	251	77548	1	Standard
⎣	**Mn**	**55**	**54.549**	ug/L	0.442	0	453	959036	1	Standard
⎡>	**Ge**	**72**		ug/L			18952	17797	1	KED
⎢	**Ni**	**60**	**50.432**	ug/L	0.759	1	4	34419	2	KED
⎢	**Ni**	**62**	**49.336**	ug/L	0.775	1	3	5597	0	KED
⎢	**Cu**	**63**	**52.211**	ug/L	1.177	2	24	103113	0	KED
⎢	**Cu**	**65**	**52.370**	ug/L	1.125	2	10	51277	1	KED
⎢	**Zn**	**66**	**51.387**	ug/L	2.147	4	17	13823	2	KED
⎢	**Zn**	**67**	**50.261**	ug/L	3.420	6	4	2263	4	KED
⎣	**As**	**75**	**51.468**	ug/L	1.022	1	4	7336	0	KED
	Y	**89**		ug/L			210580	199606	2	Standard
	Kr	**83**		ug/L			48	71	18	Standard
⎡>	**In-1**	**115**		ug/L			4998	4864	1	KED
⎢	**Cd**	**111**	**49.220**	ug/L	1.861	3	2	7934	2	KED
⎣	**Cd**	**114**	**49.158**	ug/L	1.394	2	5	19273	1	KED
⎡>	**Tb**	**159**		ug/L			413412	409158	1	Standard
⎣	**Pb**	**208**	**52.473**	ug/L	0.788	1	107	1650531	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:04:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25899	26438	0	Standard
	Cl	**37**		ug/L			4447895	4292010	0	Standard
⌈>	**Sc**	**45**		ug/L			405870	380800	0	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.024	177	10056	9257	2	Standard
|	**Cr**	**53**	**0.030**	ug/L	0.011	35	251	281	5	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.000	8	453	463	1	Standard
⌈>	**Ge**	**72**		ug/L			18952	18341	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.005	231	4	5	57	KED
|	**Ni**	**62**	**0.018**	ug/L	0.051	288	3	5	114	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	185	24	27	26	KED
|	**Cu**	**65**	**0.004**	ug/L	0.007	164	10	13	47	KED
|	**Zn**	**66**	**0.020**	ug/L	0.019	93	17	22	24	KED
|	**Zn**	**67**	**0.003**	ug/L	0.023	765	4	4	24	KED
⌊	**As**	**75**	**0.014**	ug/L	0.004	25	4	6	8	KED
	Y	**89**		ug/L			210580	195723	0	Standard
	Kr	**83**		ug/L			48	62	18	Standard
⌈>	**In-1**	**115**		ug/L			4998	4849	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.025	149	2	5	71	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.008	133	5	3	95	KED
⌈>	**Tb**	**159**		ug/L			413412	399172	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	29	107	180	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:08:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27030	1	Standard
	Cl	**37**		ug/L				4332877	1	Standard
⌈>	**Sc**	**45**		ug/L				384439	0	Standard
|	**Cr**	**52**		ug/L				9453	1	Standard
|	**Cr**	**53**		ug/L				277	5	Standard
⌊	**Mn**	**55**		ug/L				466	1	Standard
⌈>	**Ge**	**72**		ug/L				18018	1	KED
|	**Ni**	**60**		ug/L				3	91	KED
|	**Ni**	**62**		ug/L				5	57	KED
|	**Cu**	**63**		ug/L				41	14	KED
|	**Cu**	**65**		ug/L				21	41	KED
|	**Zn**	**66**		ug/L				28	41	KED
|	**Zn**	**67**		ug/L				6	56	KED
⌊	**As**	**75**		ug/L				6	29	KED
	Y	**89**		ug/L				198904	2	Standard
	Kr	**83**		ug/L				68	22	Standard
⌈>	**In-1**	**115**		ug/L				4829	1	KED
|	**Cd**	**111**		ug/L				3	41	KED
⌊	**Cd**	**114**		ug/L				2	43	KED
⌈>	**Tb**	**159**		ug/L				400394	1	Standard
⌊	**Pb**	**208**		ug/L				156	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:13:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	28708	1	Standard
	Cl	**37**		ug/L			4332877	4726640	0	Standard
⎡>	**Sc**	**45**		ug/L			384439	392345	0	Standard
⎢	**Cr**	**52**	**49.631**	ug/L	0.795	1	9453	667354	1	Standard
⎢	**Cr**	**53**	**49.579**	ug/L	0.497	1	277	76424	0	Standard
⎣	**Mn**	**55**	**53.059**	ug/L	0.589	1	466	945988	1	Standard
⎡>	**Ge**	**72**		ug/L			18018	17729	2	KED
⎢	**Ni**	**60**	**50.487**	ug/L	1.700	3	3	34304	1	KED
⎢	**Ni**	**62**	**48.933**	ug/L	0.340	0	5	5535	3	KED
⎢	**Cu**	**63**	**50.346**	ug/L	0.565	1	41	99073	1	KED
⎢	**Cu**	**65**	**51.058**	ug/L	1.227	2	21	49799	0	KED
⎢	**Zn**	**66**	**50.086**	ug/L	1.851	3	28	13431	1	KED
⎢	**Zn**	**67**	**49.006**	ug/L	3.226	6	6	2200	4	KED
⎣	**As**	**75**	**51.326**	ug/L	1.007	1	6	7290	1	KED
	Y	**89**		ug/L			198904	204062	1	Standard
	Kr	**83**		ug/L			68	63	17	Standard
⎡>	**In-1**	**115**		ug/L			4829	4793	2	KED
⎢	**Cd**	**111**	**50.025**	ug/L	1.382	2	3	7947	1	KED
⎣	**Cd**	**114**	**50.049**	ug/L	1.383	2	2	19330	0	KED
⎡>	**Tb**	**159**		ug/L			400394	402816	0	Standard
⎣	**Pb**	**208**	**53.505**	ug/L	0.390	0	156	1657217	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:20:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	26559	0	Standard
	Cl	**37**		ug/L			4332877	4273178	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	380906	1	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.009	1472	9453	9374	1	Standard
|	**Cr**	**53**	**-0.006**	ug/L	0.015	269	277	266	7	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	960	466	464	4	Standard
⌈>	**Ge**	**72**		ug/L			18018	17821	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.002	56	3	5	21	KED
|	**Ni**	**62**	**-0.022**	ug/L	0.010	44	5	3	34	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.005	75	41	27	34	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.002	19	21	11	16	KED
|	**Zn**	**66**	**-0.032**	ug/L	0.035	109	28	19	47	KED
|	**Zn**	**67**	**-0.041**	ug/L	0.129	317	6	5	114	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.003	46	6	5	8	KED
	Y	**89**		ug/L			198904	201802	3	Standard
	Kr	**83**		ug/L			68	54	29	Standard
⌈>	**In-1**	**115**		ug/L			4829	4761	2	KED
|	**Cd**	**111**	**0.012**	ug/L	0.019	156	3	5	56	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	144	2	3	48	KED
⌈>	**Tb**	**159**		ug/L			400394	398974	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	131	156	170	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0352-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:24:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	45816	2	Standard
	Cl	**37**		ug/L			4332877	4385811	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	413932	1	Standard
|	**Cr**	**52**	**0.918**	ug/L	0.037	3	9453	23003	1	Standard
|	**Cr**	**53**	**1.342**	ug/L	0.032	2	277	2472	1	Standard
⌊	**Mn**	**55**	**8.822**	ug/L	0.229	2	466	166324	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17762	1	KED
|	**Ni**	**60**	**0.634**	ug/L	0.055	8	3	434	7	KED
|	**Ni**	**62**	**0.517**	ug/L	0.022	4	5	64	4	KED
|	**Cu**	**63**	**7.684**	ug/L	0.148	1	41	15182	0	KED
|	**Cu**	**65**	**7.603**	ug/L	0.081	1	21	7450	0	KED
|	**Zn**	**66**	**37.603**	ug/L	0.521	1	28	10115	2	KED
|	**Zn**	**67**	**34.908**	ug/L	2.924	8	6	1573	7	KED
⌊	**As**	**75**	**0.180**	ug/L	0.014	7	6	32	7	KED
	Y	**89**		ug/L			198904	207496	2	Standard
	Kr	**83**		ug/L			68	62	22	Standard
⌈>	**In-1**	**115**		ug/L			4829	4748	0	KED
|	**Cd**	**111**	**0.083**	ug/L	0.019	22	3	16	17	KED
⌊	**Cd**	**114**	**0.068**	ug/L	0.030	43	2	28	40	KED
⌈>	**Tb**	**159**		ug/L			400394	408061	0	Standard
⌊	**Pb**	**208**	**1.252**	ug/L	0.034	2	156	39449	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0352-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:28:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	46575	2	Standard
	Cl	**37**		ug/L			4332877	4276051	0	Standard
⎡>	**Sc**	**45**		ug/L			384439	412760	1	Standard
⎢	**Cr**	**52**	**0.993**	ug/L	0.051	5	9453	23986	1	Standard
⎢	**Cr**	**53**	**1.508**	ug/L	0.057	3	277	2733	2	Standard
⎣	**Mn**	**55**	**10.869**	ug/L	0.238	2	466	204222	1	Standard
⎡>	**Ge**	**72**		ug/L			18018	17736	0	KED
⎢	**Ni**	**60**	**0.855**	ug/L	0.050	5	3	584	6	KED
⎢	**Ni**	**62**	**0.849**	ug/L	0.104	12	5	101	11	KED
⎢	**Cu**	**63**	**8.520**	ug/L	0.046	0	41	16809	0	KED
⎢	**Cu**	**65**	**8.458**	ug/L	0.211	2	21	8272	1	KED
⎢	**Zn**	**66**	**47.171**	ug/L	0.261	0	28	12664	0	KED
⎢	**Zn**	**67**	**42.877**	ug/L	2.596	6	6	1928	5	KED
⎣	**As**	**75**	**0.237**	ug/L	0.025	10	6	40	8	KED
	Y	**89**		ug/L			198904	208311	1	Standard
	Kr	**83**		ug/L			68	55	22	Standard
⎡>	**In-1**	**115**		ug/L			4829	4825	0	KED
⎢	**Cd**	**111**	**0.091**	ug/L	0.012	12	3	18	10	KED
⎣	**Cd**	**114**	**0.075**	ug/L	0.016	21	2	31	20	KED
⎡>	**Tb**	**159**		ug/L			400394	410362	1	Standard
⎣	**Pb**	**208**	**1.594**	ug/L	0.026	1	156	50432	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0354-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:33:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	43563	1	Standard
	Cl	**37**		ug/L			4332877	5079132	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	409800	0	Standard
|	**Cr**	**52**	**2.022**	ug/L	0.030	1	9453	38069	0	Standard
|	**Cr**	**53**	**2.692**	ug/L	0.091	3	277	4613	3	Standard
⌊	**Mn**	**55**	**4.752**	ug/L	0.041	0	466	88949	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	16799	3	KED
|	**Ni**	**60**	**0.369**	ug/L	0.034	9	3	240	10	KED
|	**Ni**	**62**	**0.307**	ug/L	0.116	37	5	38	31	KED
|	**Cu**	**63**	**1.672**	ug/L	0.035	2	41	3154	1	KED
|	**Cu**	**65**	**1.691**	ug/L	0.088	5	21	1581	2	KED
|	**Zn**	**66**	**1.862**	ug/L	0.011	0	28	499	3	KED
|	**Zn**	**67**	**2.110**	ug/L	0.362	17	6	95	13	KED
⌊	**As**	**75**	**1.183**	ug/L	0.040	3	6	165	0	KED
	Y	**89**		ug/L			198904	203875	1	Standard
	Kr	**83**		ug/L			68	48	25	Standard
⌈>	**In-1**	**115**		ug/L			4829	4626	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.010	191	3	4	35	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.005	37	2	7	25	KED
⌈>	**Tb**	**159**		ug/L			400394	381510	1	Standard
⌊	**Pb**	**208**	**0.179**	ug/L	0.005	2	156	5400	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0356-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:37:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	44414	0	Standard
	Cl	**37**		ug/L			4332877	5044040	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	410568	2	Standard
|	**Cr**	**52**	**1.966**	ug/L	0.096	4	9453	37343	1	Standard
|	**Cr**	**53**	**2.608**	ug/L	0.112	4	277	4484	1	Standard
⌊	**Mn**	**55**	**5.481**	ug/L	0.088	1	466	102665	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	16840	1	KED
|	**Ni**	**60**	**0.372**	ug/L	0.013	3	3	243	5	KED
|	**Ni**	**62**	**0.383**	ug/L	0.125	32	5	46	27	KED
|	**Cu**	**63**	**1.647**	ug/L	0.058	3	41	3115	2	KED
|	**Cu**	**65**	**1.651**	ug/L	0.010	0	21	1549	1	KED
|	**Zn**	**66**	**2.102**	ug/L	0.037	1	28	561	0	KED
|	**Zn**	**67**	**2.443**	ug/L	0.043	1	6	110	0	KED
⌊	**As**	**75**	**1.192**	ug/L	0.113	9	6	166	7	KED
	Y	**89**		ug/L			198904	203109	2	Standard
	Kr	**83**		ug/L			68	67	9	Standard
⌈>	**In-1**	**115**		ug/L			4829	4471	0	KED
|	**Cd**	**111**	**0.030**	ug/L	0.011	38	3	7	21	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.011	56	2	9	42	KED
⌈>	**Tb**	**159**		ug/L			400394	368337	0	Standard
⌊	**Pb**	**208**	**0.194**	ug/L	0.000	0	156	5644	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0358-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:42:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	47682	1	Standard
	Cl	**37**		ug/L			4332877	5567701	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	400870	1	Standard
|	**Cr**	**52**	**0.239**	ug/L	0.021	8	9453	13089	1	Standard
|	**Cr**	**53**	**2.083**	ug/L	0.042	2	277	3558	2	Standard
⌊	**Mn**	**55**	**35.588**	ug/L	0.962	2	466	648259	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17267	1	KED
|	**Ni**	**60**	**0.279**	ug/L	0.033	11	3	187	10	KED
|	**Ni**	**62**	**0.291**	ug/L	0.047	16	5	37	12	KED
|	**Cu**	**63**	**1.745**	ug/L	0.038	2	41	3383	1	KED
|	**Cu**	**65**	**1.716**	ug/L	0.087	5	21	1650	4	KED
|	**Zn**	**66**	**23.684**	ug/L	0.760	3	28	6203	2	KED
|	**Zn**	**67**	**22.335**	ug/L	1.296	5	6	980	4	KED
⌊	**As**	**75**	**0.239**	ug/L	0.012	5	6	39	4	KED
	Y	**89**		ug/L			198904	203049	0	Standard
	Kr	**83**		ug/L			68	51	16	Standard
⌈>	**In-1**	**115**		ug/L			4829	4480	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.008	54	3	5	20	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.016	57	2	12	46	KED
⌈>	**Tb**	**159**		ug/L			400394	385318	0	Standard
⌊	**Pb**	**208**	**0.280**	ug/L	0.001	0	156	8458	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0380-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:46:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	52273	2	Standard
	Cl	**37**		ug/L			4332877	5221830	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	389865	1	Standard
|	**Cr**	**52**	**1.014**	ug/L	0.025	2	9453	22935	2	Standard
|	**Cr**	**53**	**1.941**	ug/L	0.072	3	277	3242	2	Standard
⌊	**Mn**	**55**	**158.775**	ug/L	1.891	1	466	2811823	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17827	1	KED
|	**Ni**	**60**	**1.283**	ug/L	0.014	1	3	880	0	KED
|	**Ni**	**62**	**1.164**	ug/L	0.112	9	5	137	7	KED
|	**Cu**	**63**	**8.764**	ug/L	0.107	1	41	17376	0	KED
|	**Cu**	**65**	**8.742**	ug/L	0.190	2	21	8596	3	KED
|	**Zn**	**66**	**92.256**	ug/L	1.634	1	28	24871	2	KED
|	**Zn**	**67**	**85.365**	ug/L	3.395	3	6	3851	2	KED
⌊	**As**	**75**	**1.162**	ug/L	0.037	3	6	172	3	KED
	Y	**89**		ug/L			198904	201826	1	Standard
	Kr	**83**		ug/L			68	64	16	Standard
⌈>	**In-1**	**115**		ug/L			4829	4738	2	KED
|	**Cd**	**111**	**0.124**	ug/L	0.023	18	3	22	16	KED
⌊	**Cd**	**114**	**0.113**	ug/L	0.026	23	2	45	20	KED
⌈>	**Tb**	**159**		ug/L			400394	389178	1	Standard
⌊	**Pb**	**208**	**1.166**	ug/L	0.009	0	156	35035	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0368-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:50:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42862	1	Standard
	Cl	**37**		ug/L			4332877	5021329	0	Standard
>	**Sc**	**45**		ug/L			384439	487887	2	Standard
	Cr	**52**	**-0.092**	ug/L	0.027	28	9453	10481	3	Standard
	Cr	**53**	**1.709**	ug/L	0.041	2	277	3614	1	Standard
	Mn	**55**	**36.765**	ug/L	0.423	1	466	815153	1	Standard
>	**Ge**	**72**		ug/L			18018	16807	1	KED
	Ni	**60**	**0.070**	ug/L	0.006	9	3	48	8	KED
	Ni	**62**	**0.069**	ug/L	0.019	27	5	12	17	KED
	Cu	**63**	**5.523**	ug/L	0.073	1	41	10339	0	KED
	Cu	**65**	**5.590**	ug/L	0.132	2	21	5187	1	KED
	Zn	**66**	**45.968**	ug/L	1.219	2	28	11693	1	KED
	Zn	**67**	**44.515**	ug/L	0.516	1	6	1897	1	KED
	As	**75**	**0.146**	ug/L	0.012	8	6	26	7	KED
	Y	**89**		ug/L			198904	198960	0	Standard
	Kr	**83**		ug/L			68	67	9	Standard
>	**In-1**	**115**		ug/L			4829	4409	1	KED
	Cd	**111**	**0.065**	ug/L	0.007	10	3	12	8	KED
	Cd	**114**	**0.061**	ug/L	0.009	15	2	23	12	KED
>	**Tb**	**159**		ug/L			400394	388939	1	Standard
	Pb	**208**	**0.966**	ug/L	0.019	1	156	29035	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0368-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:55:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27030	45607	1	Standard
	Cl	37		ug/L			4332877	5077897	1	Standard
>	Sc	45		ug/L			384439	512828	1	Standard
	Cr	52	-0.062	ug/L	0.015	24	9453	11539	1	Standard
	Cr	53	1.860	ug/L	0.012	0	277	4103	1	Standard
	Mn	55	35.660	ug/L	0.739	2	466	831073	0	Standard
>	Ge	72		ug/L			18018	17190	1	KED
	Ni	60	0.886	ug/L	0.056	6	3	587	7	KED
	Ni	62	0.849	ug/L	0.053	6	5	98	4	KED
	Cu	63	23.549	ug/L	0.193	0	41	44960	0	KED
	Cu	65	23.151	ug/L	0.652	2	21	21909	1	KED
	Zn	66	155.676	ug/L	1.382	0	28	40443	0	KED
	Zn	67	142.609	ug/L	4.576	3	6	6200	2	KED
	As	75	0.142	ug/L	0.018	12	6	26	10	KED
	Y	89		ug/L			198904	208198	1	Standard
	Kr	83		ug/L			68	60	13	Standard
>	In-1	115		ug/L			4829	4665	1	KED
	Cd	111	0.075	ug/L	0.026	34	3	14	25	KED
	Cd	114	0.093	ug/L	0.025	26	2	37	25	KED
>	Tb	159		ug/L			400394	406098	0	Standard
	Pb	208	2.716	ug/L	0.044	1	156	84947	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0368-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 02:59:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27030	42736	2	Standard
Cl	37		ug/L			4332877	4911972	0	Standard
> Sc	45		ug/L			384439	493860	0	Standard
Cr	52	-0.055	ug/L	0.008	15	9453	11232	1	Standard
Cr	53	1.927	ug/L	0.048	2	277	4082	2	Standard
Mn	55	32.156	ug/L	0.389	1	466	721908	2	Standard
> Ge	72		ug/L			18018	17032	1	KED
Ni	60	0.114	ug/L	0.017	15	3	77	13	KED
Ni	62	0.090	ug/L	0.033	36	5	15	25	KED
Cu	63	3.521	ug/L	0.095	2	41	6693	1	KED
Cu	65	3.552	ug/L	0.034	0	21	3348	1	KED
Zn	66	54.481	ug/L	0.835	1	28	14043	2	KED
Zn	67	51.342	ug/L	0.642	1	6	2216	1	KED
As	75	0.142	ug/L	0.025	17	6	25	12	KED
Y	89		ug/L			198904	200359	1	Standard
Kr	83		ug/L			68	46	15	Standard
> In-1	115		ug/L			4829	4434	1	KED
Cd	111	0.004	ug/L	0.012	276	3	3	43	KED
Cd	114	0.022	ug/L	0.006	29	2	10	21	KED
> Tb	159		ug/L			400394	402200	0	Standard
Pb	208	0.938	ug/L	0.014	1	156	29161	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:04:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	30761	1	Standard
	Cl	**37**		ug/L			4332877	4457950	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	388223	1	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.009	84	9453	9688	0	Standard
|	**Cr**	**53**	**0.168**	ug/L	0.014	8	277	534	2	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	199	466	481	3	Standard
⌈>	**Ge**	**72**		ug/L			18018	17498	1	KED
|	**Ni**	**60**	**0.009**	ug/L	0.003	36	3	8	24	KED
|	**Ni**	**62**	**0.007**	ug/L	0.039	558	5	6	69	KED
|	**Cu**	**63**	**0.099**	ug/L	0.007	6	41	231	6	KED
|	**Cu**	**65**	**0.107**	ug/L	0.001	1	21	123	1	KED
|	**Zn**	**66**	**0.046**	ug/L	0.044	94	28	40	29	KED
|	**Zn**	**67**	**0.004**	ug/L	0.064	1595	6	6	41	KED
⌊	**As**	**75**	**-0.020**	ug/L	0.015	75	6	3	57	KED
	Y	**89**		ug/L			198904	200871	1	Standard
	Kr	**83**		ug/L			68	67	15	Standard
⌈>	**In-1**	**115**		ug/L			4829	4575	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.016	1436	3	3	68	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.008	403	2	3	93	KED
⌈>	**Tb**	**159**		ug/L			400394	396363	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.002	444	156	165	30	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:08:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	29435	0	Standard
	Cl	**37**		ug/L			4332877	4837735	0	Standard
⎡>	**Sc**	**45**		ug/L			384439	392237	1	Standard
⎢	**Cr**	**52**	**49.977**	ug/L	0.724	1	9453	671668	0	Standard
⎢	**Cr**	**53**	**50.870**	ug/L	1.243	2	277	78371	1	Standard
⎣	**Mn**	**55**	**52.858**	ug/L	0.847	1	466	941992	0	Standard
⎡>	**Ge**	**72**		ug/L			18018	17568	1	KED
⎢	**Ni**	**60**	**51.004**	ug/L	0.258	0	3	34357	0	KED
⎢	**Ni**	**62**	**49.277**	ug/L	0.650	1	5	5522	1	KED
⎢	**Cu**	**63**	**50.861**	ug/L	0.935	1	41	99187	1	KED
⎢	**Cu**	**65**	**51.840**	ug/L	0.313	0	21	50123	0	KED
⎢	**Zn**	**66**	**50.720**	ug/L	0.721	1	28	13485	0	KED
⎢	**Zn**	**67**	**51.441**	ug/L	0.541	1	6	2290	2	KED
⎣	**As**	**75**	**49.988**	ug/L	0.646	1	6	7037	0	KED
	Y	**89**		ug/L			198904	199721	0	Standard
	Kr	**83**		ug/L			68	64	10	Standard
⎡>	**In-1**	**115**		ug/L			4829	4659	2	KED
⎢	**Cd**	**111**	**50.159**	ug/L	1.814	3	3	7744	1	KED
⎣	**Cd**	**114**	**51.105**	ug/L	0.735	1	2	19190	1	KED
⎡>	**Tb**	**159**		ug/L			400394	398643	0	Standard
⎣	**Pb**	**208**	**52.923**	ug/L	0.356	0	156	1622216	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:15:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	26868	0	Standard
	Cl	**37**		ug/L			4332877	4425414	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	374530	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.004	59	9453	9293	1	Standard
|	**Cr**	**53**	**0.055**	ug/L	0.016	28	277	350	5	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.002	154	466	433	5	Standard
⌈>	**Ge**	**72**		ug/L			18018	17365	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.004	209	3	4	65	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.026	276	5	4	65	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.004	150	41	34	22	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.002	33	21	15	12	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.027	838	28	26	25	KED
|	**Zn**	**67**	**0.005**	ug/L	0.151	3072	6	6	95	KED
⌊	**As**	**75**	**-0.013**	ug/L	0.014	107	6	4	40	KED
	Y	**89**		ug/L			198904	195142	2	Standard
	Kr	**83**		ug/L			68	58	27	Standard
⌈>	**In-1**	**115**		ug/L			4829	4604	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	188	3	2	33	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	139	2	3	51	KED
⌈>	**Tb**	**159**		ug/L			400394	388678	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	70	156	189	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0369-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:19:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42757	0	Standard
	Cl	**37**		ug/L			4332877	4369967	2	Standard
⌈>	**Sc**	**45**		ug/L			384439	431458	0	Standard
|	**Cr**	**52**	**0.266**	ug/L	0.011	4	9453	14479	0	Standard
|	**Cr**	**53**	**0.632**	ug/L	0.030	4	277	1379	4	Standard
⌊	**Mn**	**55**	**0.238**	ug/L	0.002	0	466	5183	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17570	2	KED
|	**Ni**	**60**	**13.772**	ug/L	0.254	1	3	9278	1	KED
|	**Ni**	**62**	**13.162**	ug/L	0.108	0	5	1479	2	KED
|	**Cu**	**63**	**22.227**	ug/L	0.385	1	41	43369	1	KED
|	**Cu**	**65**	**22.459**	ug/L	0.927	4	21	21717	1	KED
|	**Zn**	**66**	**83.140**	ug/L	1.296	1	28	22088	1	KED
|	**Zn**	**67**	**73.242**	ug/L	4.130	5	6	3256	3	KED
⌊	**As**	**75**	**0.100**	ug/L	0.021	20	6	20	11	KED
	Y	**89**		ug/L			198904	206618	0	Standard
	Kr	**83**		ug/L			68	56	23	Standard
⌈>	**In-1**	**115**		ug/L			4829	4633	0	KED
|	**Cd**	**111**	**0.024**	ug/L	0.013	55	3	6	28	KED
⌊	**Cd**	**114**	**0.023**	ug/L	0.008	33	2	10	26	KED
⌈>	**Tb**	**159**		ug/L			400394	399256	1	Standard
⌊	**Pb**	**208**	**1.232**	ug/L	0.027	2	156	37951	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0369-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:24:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42840	3	Standard
	Cl	**37**		ug/L			4332877	4241562	0	Standard
⎡>	**Sc**	**45**		ug/L			384439	433552	2	Standard
⎢	**Cr**	**52**	**0.123**	ug/L	0.022	17	9453	12461	2	Standard
⎢	**Cr**	**53**	**0.473**	ug/L	0.032	6	277	1115	3	Standard
⎣	**Mn**	**55**	**0.338**	ug/L	0.008	2	466	7188	1	Standard
⎡>	**Ge**	**72**		ug/L			18018	17575	1	KED
⎢	**Ni**	**60**	**0.406**	ug/L	0.031	7	3	276	6	KED
⎢	**Ni**	**62**	**0.431**	ug/L	0.056	12	5	53	13	KED
⎢	**Cu**	**63**	**12.337**	ug/L	0.171	1	41	24104	2	KED
⎢	**Cu**	**65**	**12.080**	ug/L	0.234	1	21	11698	0	KED
⎢	**Zn**	**66**	**3.055**	ug/L	0.068	2	28	838	2	KED
⎢	**Zn**	**67**	**2.750**	ug/L	0.377	13	6	128	12	KED
⎣	**As**	**75**	**0.072**	ug/L	0.034	46	6	16	28	KED
	Y	**89**		ug/L			198904	205647	2	Standard
	Kr	**83**		ug/L			68	58	7	Standard
⎡>	**In-1**	**115**		ug/L			4829	4731	2	KED
⎢	**Cd**	**111**	**0.007**	ug/L	0.013	199	3	4	44	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.006	364	2	3	73	KED
⎡>	**Tb**	**159**		ug/L			400394	399923	0	Standard
⎣	**Pb**	**208**	**0.142**	ug/L	0.001	0	156	4515	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0369-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:28:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42276	2	Standard
	Cl	**37**		ug/L			4332877	4364480	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	433672	1	Standard
|	**Cr**	**52**	**0.177**	ug/L	0.010	5	9453	13258	1	Standard
|	**Cr**	**53**	**0.528**	ug/L	0.030	5	277	1208	3	Standard
⌊	**Mn**	**55**	**0.124**	ug/L	0.002	1	466	2971	0	Standard
⌈>	**Ge**	**72**		ug/L			18018	17817	1	KED
|	**Ni**	**60**	**0.019**	ug/L	0.010	56	3	15	45	KED
|	**Ni**	**62**	**-0.022**	ug/L	0.009	42	5	3	34	KED
|	**Cu**	**63**	**2.953**	ug/L	0.111	3	41	5877	2	KED
|	**Cu**	**65**	**2.931**	ug/L	0.148	5	21	2893	4	KED
|	**Zn**	**66**	**0.942**	ug/L	0.068	7	28	281	8	KED
|	**Zn**	**67**	**0.863**	ug/L	0.242	28	6	45	23	KED
⌊	**As**	**75**	**0.063**	ug/L	0.013	19	6	15	13	KED
	Y	**89**		ug/L			198904	208353	0	Standard
	Kr	**83**		ug/L			68	56	13	Standard
⌈>	**In-1**	**115**		ug/L			4829	4702	3	KED
|	**Cd**	**111**	**0.007**	ug/L	0.007	106	3	4	24	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	53	2	4	25	KED
⌈>	**Tb**	**159**		ug/L			400394	406455	1	Standard
⌊	**Pb**	**208**	**0.059**	ug/L	0.002	2	156	2002	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0371-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:33:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42587	3	Standard
	Cl	**37**		ug/L			4332877	4253039	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	426897	1	Standard
|	**Cr**	**52**	**0.144**	ug/L	0.013	9	9453	12569	0	Standard
|	**Cr**	**53**	**0.582**	ug/L	0.013	2	277	1280	2	Standard
⌊	**Mn**	**55**	**17.312**	ug/L	0.134	0	466	336161	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	18172	1	KED
|	**Ni**	**60**	**0.338**	ug/L	0.033	9	3	238	9	KED
|	**Ni**	**62**	**0.433**	ug/L	0.086	19	5	55	17	KED
|	**Cu**	**63**	**64.914**	ug/L	2.179	3	41	130901	1	KED
|	**Cu**	**65**	**64.968**	ug/L	0.536	0	21	64966	0	KED
|	**Zn**	**66**	**20.702**	ug/L	1.031	4	28	5707	3	KED
|	**Zn**	**67**	**18.651**	ug/L	0.385	2	6	863	1	KED
⌊	**As**	**75**	**0.424**	ug/L	0.062	14	6	68	13	KED
	Y	**89**		ug/L			198904	208088	1	Standard
	Kr	**83**		ug/L			68	63	12	Standard
⌈>	**In-1**	**115**		ug/L			4829	4906	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.016	927	3	3	66	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.013	85	2	8	62	KED
⌈>	**Tb**	**159**		ug/L			400394	401898	1	Standard
⌊	**Pb**	**208**	**0.376**	ug/L	0.009	2	156	11770	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0371-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:37:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	45051	0	Standard
	Cl	**37**		ug/L			4332877	4255007	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	425419	2	Standard
|	**Cr**	**52**	**0.120**	ug/L	0.004	3	9453	12190	2	Standard
|	**Cr**	**53**	**0.528**	ug/L	0.024	4	277	1186	1	Standard
⌊	**Mn**	**55**	**19.850**	ug/L	0.037	0	466	384043	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	18028	0	KED
|	**Ni**	**60**	**1.625**	ug/L	0.089	5	3	1126	5	KED
|	**Ni**	**62**	**1.724**	ug/L	0.232	13	5	203	12	KED
|	**Cu**	**63**	**114.290**	ug/L	1.779	1	41	228694	1	KED
|	**Cu**	**65**	**117.982**	ug/L	2.463	2	21	117040	2	KED
|	**Zn**	**66**	**15.568**	ug/L	0.299	1	28	4267	2	KED
|	**Zn**	**67**	**14.075**	ug/L	0.691	4	6	648	4	KED
⌊	**As**	**75**	**0.416**	ug/L	0.035	8	6	66	7	KED
	Y	**89**		ug/L			198904	205974	1	Standard
	Kr	**83**		ug/L			68	58	13	Standard
⌈>	**In-1**	**115**		ug/L			4829	4831	4	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.004	52	3	2	24	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.003	51	2	0	558	KED
⌈>	**Tb**	**159**		ug/L			400394	404352	2	Standard
⌊	**Pb**	**208**	**1.387**	ug/L	0.014	0	156	43261	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0371-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:41:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	43095	1	Standard
	Cl	**37**		ug/L			4332877	4165947	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	418452	1	Standard
|	**Cr**	**52**	**0.060**	ug/L	0.015	24	9453	11130	0	Standard
|	**Cr**	**53**	**0.458**	ug/L	0.015	3	277	1051	1	Standard
⌊	**Mn**	**55**	**5.177**	ug/L	0.108	2	466	98888	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17503	2	KED
|	**Ni**	**60**	**1.181**	ug/L	0.088	7	3	794	5	KED
|	**Ni**	**62**	**5.541**	ug/L	0.389	7	5	624	8	KED
|	**Cu**	**63**	**1954.566**	ug/L	30.545	1	41	3795954	1	KED
|	**Cu**	**65**	**2019.943**	ug/L	35.920	1	21	1944640	0	KED
|	**Zn**	**66**	**5.540**	ug/L	0.195	3	28	1492	3	KED
|	**Zn**	**67**	**4.827**	ug/L	0.023	0	6	220	2	KED
⌊	**As**	**75**	**0.232**	ug/L	0.006	2	6	39	2	KED
	Y	**89**		ug/L			198904	207096	0	Standard
	Kr	**83**		ug/L			68	59	24	Standard
⌈>	**In-1**	**115**		ug/L			4829	4622	1	KED
|	**Cd**	**111**	**0.011**	ug/L	0.010	84	3	5	28	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	1482	2	2	134	KED
⌈>	**Tb**	**159**		ug/L			400394	403300	0	Standard
⌊	**Pb**	**208**	**0.071**	ug/L	0.002	2	156	2369	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0371-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:46:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	44700	2	Standard
	Cl	**37**		ug/L			4332877	4181058	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	410748	0	Standard
|	**Cr**	**52**	**0.123**	ug/L	0.022	17	9453	11799	1	Standard
|	**Cr**	**53**	**0.461**	ug/L	0.017	3	277	1038	3	Standard
⌊	**Mn**	**55**	**4.259**	ug/L	0.019	0	466	79945	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17785	1	KED
|	**Ni**	**60**	**0.298**	ug/L	0.031	10	3	206	9	KED
|	**Ni**	**62**	**1.814**	ug/L	0.266	14	5	211	14	KED
|	**Cu**	**63**	**601.228**	ug/L	11.065	1	41	1186573	1	KED
|	**Cu**	**65**	**595.285**	ug/L	11.162	1	21	582414	0	KED
|	**Zn**	**66**	**1.928**	ug/L	0.134	6	28	546	6	KED
|	**Zn**	**67**	**1.625**	ug/L	0.280	17	6	80	16	KED
⌊	**As**	**75**	**0.089**	ug/L	0.020	23	6	19	14	KED
	Y	**89**		ug/L			198904	204097	0	Standard
	Kr	**83**		ug/L			68	60	24	Standard
⌈>	**In-1**	**115**		ug/L			4829	4685	0	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.007	522	3	3	34	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.006	125	2	4	53	KED
⌈>	**Tb**	**159**		ug/L			400394	404504	0	Standard
⌊	**Pb**	**208**	**0.047**	ug/L	0.000	0	156	1610	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0325-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:50:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	76853	2	Standard
	Cl	**37**		ug/L			4332877	8020857	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	424131	1	Standard
|	**Cr**	**52**	**3.805**	ug/L	0.023	0	9453	64944	1	Standard
|	**Cr**	**53**	**13.155**	ug/L	0.028	0	277	22146	1	Standard
⌊	**Mn**	**55**	**169.153**	ug/L	1.634	0	466	3258799	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	16275	1	KED
|	**Ni**	**60**	**7.125**	ug/L	0.122	1	3	4448	0	KED
|	**Ni**	**62**	**7.357**	ug/L	0.424	5	5	768	5	KED
|	**Cu**	**63**	**76.885**	ug/L	0.668	0	41	138896	0	KED
|	**Cu**	**65**	**77.397**	ug/L	1.633	2	21	69312	1	KED
|	**Zn**	**66**	**758.924**	ug/L	11.899	1	28	186591	1	KED
|	**Zn**	**67**	**698.375**	ug/L	1.628	0	6	28732	0	KED
⌊	**As**	**75**	**1.171**	ug/L	0.095	8	6	158	7	KED
	Y	**89**		ug/L			198904	202491	3	Standard
	Kr	**83**		ug/L			68	83	15	Standard
⌈>	**In-1**	**115**		ug/L			4829	4629	1	KED
|	**Cd**	**111**	**0.640**	ug/L	0.096	15	3	101	14	KED
⌊	**Cd**	**114**	**0.628**	ug/L	0.030	4	2	236	3	KED
⌈>	**Tb**	**159**		ug/L			400394	405502	1	Standard
⌊	**Pb**	**208**	**5.335**	ug/L	0.092	1	156	166451	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0337-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:55:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	44166	3	Standard
	Cl	**37**		ug/L			4332877	5369915	1	Standard
⎡>	**Sc**	**45**		ug/L			384439	448201	1	Standard
⎢	**Cr**	**52**	**0.056**	ug/L	0.016	29	9453	11870	1	Standard
⎢	**Cr**	**53**	**2.432**	ug/L	0.028	1	277	4589	1	Standard
⎣	**Mn**	**55**	**160.514**	ug/L	1.020	0	466	3268032	1	Standard
⎡>	**Ge**	**72**		ug/L			18018	17252	1	KED
⎢	**Ni**	**60**	**1.548**	ug/L	0.071	4	3	1027	5	KED
⎢	**Ni**	**62**	**1.515**	ug/L	0.074	4	5	172	4	KED
⎢	**Cu**	**63**	**0.313**	ug/L	0.034	10	41	640	10	KED
⎢	**Cu**	**65**	**0.330**	ug/L	0.035	10	21	333	8	KED
⎢	**Zn**	**66**	**2.791**	ug/L	0.107	3	28	754	2	KED
⎢	**Zn**	**67**	**4.278**	ug/L	0.355	8	6	193	6	KED
⎣	**As**	**75**	**0.750**	ug/L	0.026	3	6	110	2	KED
	Y	**89**		ug/L			198904	197438	0	Standard
	Kr	**83**		ug/L			68	60	29	Standard
⎡>	**In-1**	**115**		ug/L			4829	4532	3	KED
⎢	**Cd**	**111**	**0.029**	ug/L	0.021	74	3	7	43	KED
⎣	**Cd**	**114**	**0.023**	ug/L	0.003	15	2	10	9	KED
⎡>	**Tb**	**159**		ug/L			400394	393590	0	Standard
⎣	**Pb**	**208**	**0.029**	ug/L	0.001	4	156	1036	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 03:59:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	30653	0	Standard
	Cl	**37**		ug/L			4332877	4621390	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	370375	1	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.024	183	9453	9273	3	Standard
|	**Cr**	**53**	**0.305**	ug/L	0.020	6	277	709	5	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	65	466	475	2	Standard
⌈>	**Ge**	**72**		ug/L			18018	17210	1	KED
|	**Ni**	**60**	**0.007**	ug/L	0.005	69	3	7	43	KED
|	**Ni**	**62**	**0.037**	ug/L	0.045	121	5	9	52	KED
|	**Cu**	**63**	**0.111**	ug/L	0.006	5	41	251	4	KED
|	**Cu**	**65**	**0.104**	ug/L	0.016	15	21	119	13	KED
|	**Zn**	**66**	**0.041**	ug/L	0.024	58	28	38	18	KED
|	**Zn**	**67**	**0.051**	ug/L	0.109	214	6	8	53	KED
⌊	**As**	**75**	**-0.015**	ug/L	0.010	68	6	4	30	KED
	Y	**89**		ug/L			198904	193894	1	Standard
	Kr	**83**		ug/L			68	57	23	Standard
⌈>	**In-1**	**115**		ug/L			4829	4652	2	KED
|	**Cd**	**111**	**0.009**	ug/L	0.011	120	3	4	34	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.008	5315	2	2	119	KED
⌈>	**Tb**	**159**		ug/L			400394	382272	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	156	207	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:04:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	28425	1	Standard
	Cl	**37**		ug/L			4332877	4877281	1	Standard
⎡>	**Sc**	**45**		ug/L			384439	385244	1	Standard
⎢	**Cr**	**52**	**49.812**	ug/L	0.762	1	9453	657594	1	Standard
⎢	**Cr**	**53**	**50.337**	ug/L	0.794	1	277	76176	0	Standard
⎣	**Mn**	**55**	**53.157**	ug/L	0.104	0	466	930550	0	Standard
⎡>	**Ge**	**72**		ug/L			18018	17217	1	KED
⎢	**Ni**	**60**	**51.707**	ug/L	1.257	2	3	34132	2	KED
⎢	**Ni**	**62**	**51.223**	ug/L	2.243	4	5	5624	3	KED
⎢	**Cu**	**63**	**52.959**	ug/L	0.265	0	41	101222	0	KED
⎢	**Cu**	**65**	**52.255**	ug/L	0.427	0	21	49519	2	KED
⎢	**Zn**	**66**	**50.396**	ug/L	1.093	2	28	13130	1	KED
⎢	**Zn**	**67**	**51.985**	ug/L	1.188	2	6	2268	2	KED
⎣	**As**	**75**	**50.648**	ug/L	0.577	1	6	6988	1	KED
	Y	**89**		ug/L			198904	197213	1	Standard
	Kr	**83**		ug/L			68	64	23	Standard
⎡>	**In-1**	**115**		ug/L			4829	4393	1	KED
⎢	**Cd**	**111**	**52.378**	ug/L	0.535	1	3	7630	2	KED
⎣	**Cd**	**114**	**52.933**	ug/L	0.488	0	2	18747	0	KED
⎡>	**Tb**	**159**		ug/L			400394	395546	1	Standard
⎣	**Pb**	**208**	**52.848**	ug/L	0.581	1	156	1607179	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:11:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	26861	2	Standard
	Cl	**37**		ug/L			4332877	4567423	0	Standard
⎡>	**Sc**	**45**		ug/L			384439	373263	1	Standard
⎢	**Cr**	**52**	**0.002**	ug/L	0.013	527	9453	9208	1	Standard
⎢	**Cr**	**53**	**0.092**	ug/L	0.003	3	277	404	2	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.003	201	466	477	10	Standard
⎡>	**Ge**	**72**		ug/L			18018	17470	0	KED
⎢	**Ni**	**60**	**0.000**	ug/L	0.002	1114	3	3	34	KED
⎢	**Ni**	**62**	**0.002**	ug/L	0.000	19	5	5	0	KED
⎢	**Cu**	**63**	**-0.006**	ug/L	0.006	103	41	27	45	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.003	33	21	12	24	KED
⎢	**Zn**	**66**	**-0.021**	ug/L	0.046	220	28	22	55	KED
⎢	**Zn**	**67**	**-0.081**	ug/L	0.025	30	6	3	34	KED
⎣	**As**	**75**	**-0.020**	ug/L	0.003	16	6	3	12	KED
	Y	**89**		ug/L			198904	190980	0	Standard
	Kr	**83**		ug/L			68	64	16	Standard
⎡>	**In-1**	**115**		ug/L			4829	4549	2	KED
⎢	**Cd**	**111**	**-0.009**	ug/L	0.007	73	3	1	50	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.005	325	2	1	103	KED
⎡>	**Tb**	**159**		ug/L			400394	386848	1	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.002	86	156	217	25	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0372-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:15:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42669	0	Standard
	Cl	**37**		ug/L			4332877	4429034	0	Standard
⎡>	**Sc**	**45**		ug/L			384439	426451	0	Standard
⎢	**Cr**	**52**	**0.249**	ug/L	0.012	4	9453	14076	0	Standard
⎢	**Cr**	**53**	**0.724**	ug/L	0.012	1	277	1515	0	Standard
⎣	**Mn**	**55**	**0.415**	ug/L	0.011	2	466	8562	1	Standard
⎡>	**Ge**	**72**		ug/L			18018	17320	0	KED
⎢	**Ni**	**60**	**0.036**	ug/L	0.016	44	3	26	39	KED
⎢	**Ni**	**62**	**0.060**	ug/L	0.044	73	5	12	39	KED
⎢	**Cu**	**63**	**19.538**	ug/L	0.514	2	41	37591	2	KED
⎢	**Cu**	**65**	**19.903**	ug/L	0.370	1	21	18985	1	KED
⎢	**Zn**	**66**	**0.888**	ug/L	0.019	2	28	259	2	KED
⎢	**Zn**	**67**	**1.050**	ug/L	0.125	11	6	52	11	KED
⎣	**As**	**75**	**0.077**	ug/L	0.006	8	6	17	5	KED
	Y	**89**		ug/L			198904	203455	2	Standard
	Kr	**83**		ug/L			68	49	13	Standard
⎡>	**In-1**	**115**		ug/L			4829	4629	2	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.015	285	3	4	53	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.006	403	2	2	74	KED
⎡>	**Tb**	**159**		ug/L			400394	397417	0	Standard
⎣	**Pb**	**208**	**0.159**	ug/L	0.003	1	156	5011	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0372-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:19:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	39526	0	Standard
	Cl	**37**		ug/L			4332877	4365557	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	429454	0	Standard
|	**Cr**	**52**	**0.138**	ug/L	0.022	16	9453	12556	2	Standard
|	**Cr**	**53**	**0.644**	ug/L	0.021	3	277	1393	2	Standard
⌊	**Mn**	**55**	**0.454**	ug/L	0.011	2	466	9381	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17579	2	KED
|	**Ni**	**60**	**0.706**	ug/L	0.072	10	3	478	8	KED
|	**Ni**	**62**	**0.682**	ug/L	0.035	5	5	81	4	KED
|	**Cu**	**63**	**0.962**	ug/L	0.063	6	41	1915	4	KED
|	**Cu**	**65**	**0.936**	ug/L	0.034	3	21	925	2	KED
|	**Zn**	**66**	**3.543**	ug/L	0.195	5	28	967	3	KED
|	**Zn**	**67**	**4.111**	ug/L	0.329	8	6	189	5	KED
⌊	**As**	**75**	**1.909**	ug/L	0.107	5	6	275	6	KED
	Y	**89**		ug/L			198904	197843	2	Standard
	Kr	**83**		ug/L			68	53	7	Standard
⌈>	**In-1**	**115**		ug/L			4829	4575	0	KED
|	**Cd**	**111**	**0.024**	ug/L	0.028	116	3	6	61	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.008	54	2	7	38	KED
⌈>	**Tb**	**159**		ug/L			400394	399018	1	Standard
⌊	**Pb**	**208**	**0.096**	ug/L	0.005	4	156	3094	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0372-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:24:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	44174	1	Standard
	Cl	**37**		ug/L			4332877	4246790	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	420968	1	Standard
|	**Cr**	**52**	**0.172**	ug/L	0.013	7	9453	12796	3	Standard
|	**Cr**	**53**	**0.570**	ug/L	0.019	3	277	1242	1	Standard
⌊	**Mn**	**55**	**0.433**	ug/L	0.010	2	466	8786	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17525	0	KED
|	**Ni**	**60**	**0.028**	ug/L	0.009	32	3	21	28	KED
|	**Ni**	**62**	**0.092**	ug/L	0.080	86	5	15	56	KED
|	**Cu**	**63**	**24.950**	ug/L	0.602	2	41	48557	1	KED
|	**Cu**	**65**	**24.732**	ug/L	0.330	1	21	23867	2	KED
|	**Zn**	**66**	**2.665**	ug/L	0.033	1	28	733	1	KED
|	**Zn**	**67**	**2.514**	ug/L	0.150	5	6	118	4	KED
⌊	**As**	**75**	**0.084**	ug/L	0.028	33	6	18	22	KED
	Y	**89**		ug/L			198904	199435	1	Standard
	Kr	**83**		ug/L			68	50	19	Standard
⌈>	**In-1**	**115**		ug/L			4829	4702	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	595	3	3	15	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	284	2	1	116	KED
⌈>	**Tb**	**159**		ug/L			400394	396347	1	Standard
⌊	**Pb**	**208**	**0.240**	ug/L	0.001	0	156	7481	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0372-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:28:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42923	3	Standard
	Cl	**37**		ug/L			4332877	4270147	1	Standard
⎡>	**Sc**	**45**		ug/L			384439	424365	1	Standard
⎢	**Cr**	**52**	**0.046**	ug/L	0.005	10	9453	11088	0	Standard
⎢	**Cr**	**53**	**0.397**	ug/L	0.015	3	277	965	1	Standard
⎣	**Mn**	**55**	**11.310**	ug/L	0.241	2	466	218459	1	Standard
⎡>	**Ge**	**72**		ug/L			18018	17450	1	KED
⎢	**Ni**	**60**	**108.128**	ug/L	0.972	0	3	72352	2	KED
⎢	**Ni**	**62**	**105.921**	ug/L	1.716	1	5	11785	2	KED
⎢	**Cu**	**63**	**127.828**	ug/L	2.760	2	41	247593	3	KED
⎢	**Cu**	**65**	**129.773**	ug/L	2.679	2	21	124580	1	KED
⎢	**Zn**	**66**	**7769.410**	ug/L	108.341	1	28	2047480	0	KED
⎢	**Zn**	**67**	**7198.560**	ug/L	60.038	0	6	317449	0	KED
⎣	**As**	**75**	**0.034**	ug/L	0.014	40	6	11	18	KED
	Y	**89**		ug/L			198904	198753	2	Standard
	Kr	**83**		ug/L			68	73	12	Standard
⎡>	**In-1**	**115**		ug/L			4829	4644	0	KED
⎢	**Cd**	**111**	**0.816**	ug/L	0.070	8	3	128	7	KED
⎣	**Cd**	**114**	**0.927**	ug/L	0.021	2	2	349	3	KED
⎡>	**Tb**	**159**		ug/L			400394	400412	1	Standard
⎣	**Pb**	**208**	**3.581**	ug/L	0.006	0	156	110403	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0372-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:33:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	43591	3	Standard
	Cl	**37**		ug/L			4332877	4135364	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	415907	1	Standard
|	**Cr**	**52**	**0.192**	ug/L	0.009	4	9453	12929	0	Standard
|	**Cr**	**53**	**0.567**	ug/L	0.022	3	277	1223	3	Standard
⌊	**Mn**	**55**	**7.832**	ug/L	0.097	1	466	148434	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17829	2	KED
|	**Ni**	**60**	**0.419**	ug/L	0.049	11	3	288	10	KED
|	**Ni**	**62**	**0.635**	ug/L	0.185	29	5	78	28	KED
|	**Cu**	**63**	**39.704**	ug/L	0.241	0	41	78591	1	KED
|	**Cu**	**65**	**39.829**	ug/L	0.695	1	21	39088	2	KED
|	**Zn**	**66**	**76.965**	ug/L	0.961	1	28	20750	1	KED
|	**Zn**	**67**	**69.029**	ug/L	1.354	1	6	3117	2	KED
⌊	**As**	**75**	**0.075**	ug/L	0.021	28	6	17	17	KED
	Y	**89**		ug/L			198904	199392	1	Standard
	Kr	**83**		ug/L			68	67	1	Standard
⌈>	**In-1**	**115**		ug/L			4829	4680	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.018	122	3	5	50	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.003	18	2	8	13	KED
⌈>	**Tb**	**159**		ug/L			400394	397924	0	Standard
⌊	**Pb**	**208**	**1.098**	ug/L	0.008	0	156	33762	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0372-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:37:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	42859	4	Standard
	Cl	**37**		ug/L			4332877	4150088	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	418390	1	Standard
|	**Cr**	**52**	**0.130**	ug/L	0.017	12	9453	12120	1	Standard
|	**Cr**	**53**	**0.439**	ug/L	0.022	5	277	1020	3	Standard
⌊	**Mn**	**55**	**5.274**	ug/L	0.146	2	466	100704	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17734	1	KED
|	**Ni**	**60**	**4.683**	ug/L	0.072	1	3	3187	1	KED
|	**Ni**	**62**	**5.312**	ug/L	0.290	5	5	605	4	KED
|	**Cu**	**63**	**207.804**	ug/L	7.677	3	41	408861	2	KED
|	**Cu**	**65**	**209.227**	ug/L	1.777	0	21	204146	1	KED
|	**Zn**	**66**	**1334.074**	ug/L	27.323	2	28	357307	0	KED
|	**Zn**	**67**	**1205.074**	ug/L	38.523	3	6	54006	2	KED
⌊	**As**	**75**	**0.031**	ug/L	0.008	24	6	11	10	KED
	Y	**89**		ug/L			198904	202240	1	Standard
	Kr	**83**		ug/L			68	52	30	Standard
⌈>	**In-1**	**115**		ug/L			4829	4721	2	KED
|	**Cd**	**111**	**0.244**	ug/L	0.017	6	3	41	4	KED
⌊	**Cd**	**114**	**0.162**	ug/L	0.015	9	2	64	8	KED
⌈>	**Tb**	**159**		ug/L			400394	398941	1	Standard
⌊	**Pb**	**208**	**6.456**	ug/L	0.083	1	156	198147	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0350-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:41:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27030	66499	5	Standard
	Cl	37		ug/L			4332877	29258317	0	Standard
>	Sc	45		ug/L			384439	380572	1	Standard
	Cr	52	1.296	ug/L	0.045	3	9453	26014	1	Standard
	Cr	53	50.620	ug/L	0.642	1	277	75674	0	Standard
	Mn	55	467.368	ug/L	4.785	1	466	8078078	0	Standard
>	Ge	72		ug/L			18018	14582	1	KED
	Ni	60	20.353	ug/L	0.349	1	3	11379	1	KED
	Ni	62	21.056	ug/L	0.698	3	5	1960	2	KED
	Cu	63	2.017	ug/L	0.037	1	41	3297	2	KED
	Cu	65	1.975	ug/L	0.021	1	21	1601	2	KED
	Zn	66	212.493	ug/L	3.283	1	28	46827	2	KED
	Zn	67	197.872	ug/L	3.019	1	6	7299	3	KED
	As	75	0.381	ug/L	0.011	2	6	50	1	KED
	Y	89		ug/L			198904	171108	0	Standard
	Kr	83		ug/L			68	871	4	Standard
>	In-1	115		ug/L			4829	3986	3	KED
	Cd	111	0.040	ug/L	0.028	69	3	8	46	KED
	Cd	114	0.050	ug/L	0.024	49	2	17	43	KED
>	Tb	159		ug/L			400394	392397	1	Standard
	Pb	208	0.159	ug/L	0.002	1	156	4940	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0359-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:46:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	45747	1	Standard
	Cl	**37**		ug/L			4332877	4878445	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	430183	1	Standard
|	**Cr**	**52**	**5.588**	ug/L	0.141	2	9453	91747	0	Standard
|	**Cr**	**53**	**8.408**	ug/L	0.240	2	277	14463	1	Standard
⌊	**Mn**	**55**	**29.354**	ug/L	0.803	2	466	573843	0	Standard
⌈>	**Ge**	**72**		ug/L			18018	17130	0	KED
|	**Ni**	**60**	**0.284**	ug/L	0.018	6	3	189	5	KED
|	**Ni**	**62**	**0.509**	ug/L	0.077	15	5	60	13	KED
|	**Cu**	**63**	**35.188**	ug/L	0.164	0	41	66932	1	KED
|	**Cu**	**65**	**35.092**	ug/L	0.222	0	21	33090	0	KED
|	**Zn**	**66**	**319.062**	ug/L	3.124	0	28	82576	0	KED
|	**Zn**	**67**	**284.831**	ug/L	4.399	1	6	12338	2	KED
⌊	**As**	**75**	**7.020**	ug/L	0.135	1	6	969	1	KED
	Y	**89**		ug/L			198904	200518	0	Standard
	Kr	**83**		ug/L			68	57	19	Standard
⌈>	**In-1**	**115**		ug/L			4829	4556	0	KED
|	**Cd**	**111**	**0.313**	ug/L	0.054	17	3	50	15	KED
⌊	**Cd**	**114**	**0.271**	ug/L	0.038	14	2	101	14	KED
⌈>	**Tb**	**159**		ug/L			400394	397897	1	Standard
⌊	**Pb**	**208**	**0.145**	ug/L	0.003	1	156	4587	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0359-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:50:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	52657	0	Standard
	Cl	**37**		ug/L			4332877	4982531	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	379089	2	Standard
|	**Cr**	**52**	**0.869**	ug/L	0.056	6	9453	20442	1	Standard
|	**Cr**	**53**	**3.157**	ug/L	0.131	4	277	4954	1	Standard
⌊	**Mn**	**55**	**114.093**	ug/L	3.084	2	466	1964015	1	Standard
⌈>	**Ge**	**72**		ug/L			18018	17413	2	KED
|	**Ni**	**60**	**0.336**	ug/L	0.039	11	3	227	10	KED
|	**Ni**	**62**	**0.396**	ug/L	0.025	6	5	49	7	KED
|	**Cu**	**63**	**6.697**	ug/L	0.145	2	41	12977	0	KED
|	**Cu**	**65**	**6.761**	ug/L	0.146	2	21	6499	4	KED
|	**Zn**	**66**	**110.058**	ug/L	1.222	1	28	28969	1	KED
|	**Zn**	**67**	**99.598**	ug/L	4.072	4	6	4387	2	KED
⌊	**As**	**75**	**1.624**	ug/L	0.021	1	6	233	3	KED
	Y	**89**		ug/L			198904	194192	1	Standard
	Kr	**83**		ug/L			68	66	3	Standard
⌈>	**In-1**	**115**		ug/L			4829	4575	1	KED
|	**Cd**	**111**	**0.640**	ug/L	0.041	6	3	100	6	KED
⌊	**Cd**	**114**	**0.677**	ug/L	0.090	13	2	251	12	KED
⌈>	**Tb**	**159**		ug/L			400394	393537	0	Standard
⌊	**Pb**	**208**	**0.039**	ug/L	0.002	4	156	1328	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:55:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	30018	1	Standard
	Cl	**37**		ug/L			4332877	4586513	0	Standard
⌈>	**Sc**	**45**		ug/L			384439	371009	0	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.022	103	9453	9387	2	Standard
|	**Cr**	**53**	**0.728**	ug/L	0.003	0	277	1325	0	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.002	42	466	512	5	Standard
⌈>	**Ge**	**72**		ug/L			18018	17224	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.007	111	3	6	62	KED
|	**Ni**	**62**	**0.014**	ug/L	0.026	188	5	6	41	KED
|	**Cu**	**63**	**0.105**	ug/L	0.008	7	41	239	5	KED
|	**Cu**	**65**	**0.107**	ug/L	0.020	19	21	121	17	KED
|	**Zn**	**66**	**0.012**	ug/L	0.026	215	28	30	22	KED
|	**Zn**	**67**	**-0.008**	ug/L	0.050	645	6	6	34	KED
⌊	**As**	**75**	**-0.019**	ug/L	0.018	98	6	3	66	KED
	Y	**89**		ug/L			198904	192705	1	Standard
	Kr	**83**		ug/L			68	45	11	Standard
⌈>	**In-1**	**115**		ug/L			4829	4639	2	KED
|	**Cd**	**111**	**0.018**	ug/L	0.008	44	3	6	18	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.010	101	2	6	63	KED
⌈>	**Tb**	**159**		ug/L			400394	386917	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	3	156	266	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 04:59:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	29093	2	Standard
	Cl	**37**		ug/L			4332877	4871463	0	Standard
⎡>	**Sc**	**45**		ug/L			384439	387473	2	Standard
⎢	**Cr**	**52**	**49.569**	ug/L	0.907	1	9453	658183	2	Standard
⎢	**Cr**	**53**	**50.065**	ug/L	0.306	0	277	76207	1	Standard
⎣	**Mn**	**55**	**53.013**	ug/L	0.330	0	466	933398	2	Standard
⎡>	**Ge**	**72**		ug/L			18018	16787	1	KED
⎢	**Ni**	**60**	**52.654**	ug/L	1.231	2	3	33890	2	KED
⎢	**Ni**	**62**	**51.633**	ug/L	1.371	2	5	5528	2	KED
⎢	**Cu**	**63**	**52.543**	ug/L	0.179	0	41	97924	1	KED
⎢	**Cu**	**65**	**53.356**	ug/L	0.195	0	21	49296	1	KED
⎢	**Zn**	**66**	**51.710**	ug/L	0.193	0	28	13138	1	KED
⎢	**Zn**	**67**	**53.448**	ug/L	0.935	1	6	2273	0	KED
⎣	**As**	**75**	**51.955**	ug/L	0.641	1	6	6989	1	KED
	Y	**89**		ug/L			198904	198594	2	Standard
	Kr	**83**		ug/L			68	79	17	Standard
⎡>	**In-1**	**115**		ug/L			4829	4540	1	KED
⎢	**Cd**	**111**	**50.231**	ug/L	1.392	2	3	7560	1	KED
⎣	**Cd**	**114**	**50.972**	ug/L	1.652	3	2	18651	2	KED
⎡>	**Tb**	**159**		ug/L			400394	396039	1	Standard
⎣	**Pb**	**208**	**52.852**	ug/L	0.186	0	156	1609523	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:06:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27030	26605	1	Standard
	Cl	**37**		ug/L			4332877	4524243	1	Standard
⌈>	**Sc**	**45**		ug/L			384439	370103	1	Standard
|	**Cr**	**52**	**0.006**	ug/L	0.008	127	9453	9179	0	Standard
|	**Cr**	**53**	**0.334**	ug/L	0.017	4	277	750	2	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	456	466	452	3	Standard
⌈>	**Ge**	**72**		ug/L			18018	16992	1	KED
|	**Ni**	**60**	**0.004**	ug/L	0.000	2	3	5	0	KED
|	**Ni**	**62**	**0.009**	ug/L	0.026	299	5	6	45	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.002	25	41	26	12	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.002	19	21	11	16	KED
|	**Zn**	**66**	**-0.041**	ug/L	0.024	58	28	16	37	KED
|	**Zn**	**67**	**-0.065**	ug/L	0.075	114	6	3	86	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.020	707	6	6	43	KED
	Y	**89**		ug/L			198904	190191	1	Standard
	Kr	**83**		ug/L			68	56	46	Standard
⌈>	**In-1**	**115**		ug/L			4829	4705	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.009	140	3	4	32	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	340	2	1	106	KED
⌈>	**Tb**	**159**		ug/L			400394	384092	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	152	156	170	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:11:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27647	1	Standard
	Cl	**37**		ug/L				4432381	0	Standard
⎡>	**Sc**	**45**		ug/L				373524	0	Standard
⎢	**Cr**	**52**		ug/L				9461	1	Standard
⎢	**Cr**	**53**		ug/L				665	3	Standard
⎣	**Mn**	**55**		ug/L				556	17	Standard
⎡>	**Ge**	**72**		ug/L				17301	1	KED
⎢	**Ni**	**60**		ug/L				7	25	KED
⎢	**Ni**	**62**		ug/L				3	100	KED
⎢	**Cu**	**63**		ug/L				33	34	KED
⎢	**Cu**	**65**		ug/L				22	22	KED
⎢	**Zn**	**66**		ug/L				28	6	KED
⎢	**Zn**	**67**		ug/L				9	0	KED
⎣	**As**	**75**		ug/L				5	24	KED
	Y	**89**		ug/L				196093	2	Standard
	Kr	**83**		ug/L				62	7	Standard
⎡>	**In-1**	**115**		ug/L				4601	5	KED
⎢	**Cd**	**111**		ug/L				2	21	KED
⎣	**Cd**	**114**		ug/L				4	59	KED
⎡>	**Tb**	**159**		ug/L				390590	1	Standard
⎣	**Pb**	**208**		ug/L				226	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:15:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	28730	3	Standard
	Cl	**37**		ug/L			4432381	4849069	0	Standard
⎡>	**Sc**	**45**		ug/L			373524	391662	0	Standard
⎢	**Cr**	**52**	**50.370**	ug/L	0.954	1	9461	676216	1	Standard
⎢	**Cr**	**53**	**50.283**	ug/L	0.437	0	665	77785	0	Standard
⎣	**Mn**	**55**	**53.605**	ug/L	1.134	2	556	954075	1	Standard
⎡>	**Ge**	**72**		ug/L			17301	17238	2	KED
⎢	**Ni**	**60**	**50.180**	ug/L	1.680	3	7	33160	2	KED
⎢	**Ni**	**62**	**49.442**	ug/L	1.366	2	3	5433	1	KED
⎢	**Cu**	**63**	**52.119**	ug/L	1.021	1	33	99706	0	KED
⎢	**Cu**	**65**	**51.428**	ug/L	1.439	2	22	48774	1	KED
⎢	**Zn**	**66**	**50.797**	ug/L	0.917	1	28	13252	2	KED
⎢	**Zn**	**67**	**52.134**	ug/L	0.958	1	9	2280	1	KED
⎣	**As**	**75**	**50.986**	ug/L	0.441	0	5	7041	1	KED
	Y	**89**		ug/L			196093	203096	1	Standard
	Kr	**83**		ug/L			62	64	2	Standard
⎡>	**In-1**	**115**		ug/L			4601	4612	2	KED
⎢	**Cd**	**111**	**49.932**	ug/L	1.274	2	2	7632	0	KED
⎣	**Cd**	**114**	**51.135**	ug/L	1.352	2	4	19008	0	KED
⎡>	**Tb**	**159**		ug/L			390590	405004	1	Standard
⎣	**Pb**	**208**	**52.694**	ug/L	0.285	0	226	1641098	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:22:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	26642	1	Standard
	Cl	**37**		ug/L			4432381	4353160	2	Standard
⎡>	**Sc**	**45**		ug/L			373524	367027	1	Standard
⎢	**Cr**	**52**	**0.000**	ug/L	0.013	4866	9461	9299	0	Standard
⎢	**Cr**	**53**	**-0.120**	ug/L	0.010	8	665	481	2	Standard
⎣	**Mn**	**55**	**-0.007**	ug/L	0.001	13	556	427	4	Standard
⎡>	**Ge**	**72**		ug/L			17301	17135	1	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.003	99	7	5	33	KED
⎢	**Ni**	**62**	**-0.017**	ug/L	0.000	1	3	1		KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.001	24	33	27	3	KED
⎢	**Cu**	**65**	**-0.011**	ug/L	0.005	46	22	12	37	KED
⎢	**Zn**	**66**	**-0.060**	ug/L	0.005	7	28	12	8	KED
⎢	**Zn**	**67**	**-0.144**	ug/L	0.093	64	9	3	124	KED
⎣	**As**	**75**	**-0.011**	ug/L	0.006	51	5	3	18	KED
	Y	**89**		ug/L			196093	193708	2	Standard
	Kr	**83**		ug/L			62	57	12	Standard
⎡>	**In-1**	**115**		ug/L			4601	4519	1	KED
⎢	**Cd**	**111**	**0.007**	ug/L	0.010	146	2	3	41	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.005	210	4	5	32	KED
⎡>	**Tb**	**159**		ug/L			390590	384806	1	Standard
⎣	**Pb**	**208**	**-0.004**	ug/L	0.000	6	226	107	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0406-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:27:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	140532	0	Standard
	Cl	37		ug/L			4432381	4342344	1	Standard
>	Sc	45		ug/L			373524	384517	0	Standard
	Cr	52	6.517	ug/L	0.026	0	9461	94378	1	Standard
	Cr	53	6.100	ug/L	0.130	2	665	9867	2	Standard
	Mn	55	12.457	ug/L	0.115	0	556	218112	0	Standard
>	Ge	72		ug/L			17301	17500	2	KED
	Ni	60	1.214	ug/L	0.059	4	7	821	2	KED
	Ni	62	1.239	ug/L	0.188	15	3	142	16	KED
	Cu	63	1.981	ug/L	0.114	5	33	3878	4	KED
	Cu	65	1.922	ug/L	0.052	2	22	1873	4	KED
	Zn	66	281.030	ug/L	3.194	1	28	74301	1	KED
	Zn	67	254.904	ug/L	3.048	1	9	11286	3	KED
	As	75	0.034	ug/L	0.018	54	5	10	22	KED
	Y	89		ug/L			196093	195862	1	Standard
	Kr	83		ug/L			62	61	17	Standard
>	In-1	115		ug/L			4601	4753	1	KED
	Cd	111	0.807	ug/L	0.068	8	2	129	8	KED
	Cd	114	0.769	ug/L	0.051	6	4	299	7	KED
>	Tb	159		ug/L			390590	394998	0	Standard
	Pb	208	0.120	ug/L	0.001	0	226	3860	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:31:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	40476	1	Standard
	Cl	**37**		ug/L			4432381	4373127	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	398187	0	Standard
⎢	**Cr**	**52**	**1.012**	ug/L	0.040	3	9461	23700	2	Standard
⎢	**Cr**	**53**	**1.178**	ug/L	0.051	4	665	2545	3	Standard
⎣	**Mn**	**55**	**69.284**	ug/L	1.182	1	556	1253515	1	Standard
⎡>	**Ge**	**72**		ug/L			17301	17655	0	KED
⎢	**Ni**	**60**	**1.025**	ug/L	0.044	4	7	701	3	KED
⎢	**Ni**	**62**	**0.907**	ug/L	0.123	13	3	106	13	KED
⎢	**Cu**	**63**	**3.469**	ug/L	0.071	2	33	6832	2	KED
⎢	**Cu**	**65**	**3.646**	ug/L	0.023	0	22	3564	1	KED
⎢	**Zn**	**66**	**43.403**	ug/L	0.876	2	28	11602	1	KED
⎢	**Zn**	**67**	**40.988**	ug/L	0.929	2	9	1838	2	KED
⎣	**As**	**75**	**0.599**	ug/L	0.031	5	5	90	3	KED
	Y	**89**		ug/L			196093	203897	2	Standard
	Kr	**83**		ug/L			62	57	12	Standard
⎡>	**In-1**	**115**		ug/L			4601	4768	2	KED
⎢	**Cd**	**111**	**0.405**	ug/L	0.046	11	2	66	12	KED
⎣	**Cd**	**114**	**0.391**	ug/L	0.095	24	4	154	21	KED
⎡>	**Tb**	**159**		ug/L			390590	401758	1	Standard
⎣	**Pb**	**208**	**2.577**	ug/L	0.027	1	226	79831	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:35:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	42878	1	Standard
	Cl	**37**		ug/L			4432381	4319303	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	374644	1	Standard
|	**Cr**	**52**	**0.773**	ug/L	0.044	5	9461	19267	2	Standard
|	**Cr**	**53**	**0.811**	ug/L	0.016	1	665	1855	2	Standard
⌊	**Mn**	**55**	**6.091**	ug/L	0.089	1	556	104200	2	Standard
⌈>	**Ge**	**72**		ug/L			17301	17575	1	KED
|	**Ni**	**60**	**0.434**	ug/L	0.015	3	7	300	3	KED
|	**Ni**	**62**	**0.419**	ug/L	0.050	11	3	50	12	KED
|	**Cu**	**63**	**2.415**	ug/L	0.049	2	33	4743	2	KED
|	**Cu**	**65**	**2.396**	ug/L	0.056	2	22	2339	1	KED
|	**Zn**	**66**	**23.901**	ug/L	0.467	1	28	6372	1	KED
|	**Zn**	**67**	**22.989**	ug/L	1.083	4	9	1030	3	KED
⌊	**As**	**75**	**0.061**	ug/L	0.015	24	5	14	15	KED
	Y	**89**		ug/L			196093	197932	1	Standard
	Kr	**83**		ug/L			62	62	13	Standard
⌈>	**In-1**	**115**		ug/L			4601	4780	2	KED
|	**Cd**	**111**	**0.304**	ug/L	0.025	8	2	50	7	KED
⌊	**Cd**	**114**	**0.263**	ug/L	0.061	22	4	106	19	KED
⌈>	**Tb**	**159**		ug/L			390590	394740	2	Standard
⌊	**Pb**	**208**	**1.151**	ug/L	0.018	1	226	35155	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:40:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	42568	0	Standard
	Cl	**37**		ug/L			4432381	5502127	2	Standard
>	**Sc**	**45**		ug/L			373524	590924	0	Standard
	Cr	**52**	**0.391**	ug/L	0.018	4	9461	22761	0	Standard
	Cr	**53**	**1.818**	ug/L	0.049	2	665	5257	1	Standard
	Mn	**55**	**1477.054**	ug/L	24.987	1	556	39639926	1	Standard
>	**Ge**	**72**		ug/L			17301	16801	0	KED
	Ni	**60**	**3.444**	ug/L	0.011	0	7	2226	1	KED
	Ni	**62**	**3.750**	ug/L	0.200	5	3	405	4	KED
	Cu	**63**	**0.165**	ug/L	0.014	8	33	340	6	KED
	Cu	**65**	**0.159**	ug/L	0.021	13	22	168	10	KED
	Zn	**66**	**1.867**	ug/L	0.201	10	28	501	10	KED
	Zn	**67**	**5.391**	ug/L	0.476	8	9	238	7	KED
	As	**75**	**9.843**	ug/L	0.058	0	5	1329	0	KED
	Y	**89**		ug/L			196093	202626	0	Standard
	Kr	**83**		ug/L			62	64	12	Standard
>	**In-1**	**115**		ug/L			4601	4474	2	KED
	Cd	**111**	**0.110**	ug/L	0.023	20	2	18	15	KED
	Cd	**114**	**0.081**	ug/L	0.034	41	4	34	36	KED
>	**Tb**	**159**		ug/L			390590	401971	1	Standard
	Pb	**208**	**0.028**	ug/L	0.002	6	226	1093	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:44:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	43649	1	Standard
	Cl	**37**		ug/L			4432381	4758615	1	Standard
>	**Sc**	**45**		ug/L			373524	585101	0	Standard
	Cr	**52**	**0.552**	ug/L	0.018	3	9461	25725	1	Standard
	Cr	**53**	**0.897**	ug/L	0.017	1	665	3095	1	Standard
	Mn	**55**	**1549.676**	ug/L	18.408	1	556	41181103	0	Standard
>	**Ge**	**72**		ug/L			17301	16573	0	KED
	Ni	**60**	**2.656**	ug/L	0.055	2	7	1694	1	KED
	Ni	**62**	**2.930**	ug/L	0.202	6	3	313	6	KED
	Cu	**63**	**0.530**	ug/L	0.028	5	33	1007	5	KED
	Cu	**65**	**0.553**	ug/L	0.015	2	22	526	3	KED
	Zn	**66**	**8.797**	ug/L	0.196	2	28	2229	1	KED
	Zn	**67**	**10.814**	ug/L	0.916	8	9	462	8	KED
	As	**75**	**9.016**	ug/L	0.136	1	5	1201	2	KED
	Y	**89**		ug/L			196093	205746	0	Standard
	Kr	**83**		ug/L			62	53	19	Standard
>	**In-1**	**115**		ug/L			4601	4364	3	KED
	Cd	**111**	**0.277**	ug/L	0.082	29	2	42	24	KED
	Cd	**114**	**0.262**	ug/L	0.031	11	4	96	9	KED
>	**Tb**	**159**		ug/L			390590	402585	0	Standard
	Pb	**208**	**0.170**	ug/L	0.003	1	226	5481	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-09
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:48:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	43560	3	Standard
	Cl	**37**		ug/L			4432381	4645724	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	458417	1	Standard
|	**Cr**	**52**	**0.332**	ug/L	0.015	4	9461	16754	1	Standard
|	**Cr**	**53**	**0.529**	ug/L	0.049	9	665	1765	5	Standard
⌊	**Mn**	**55**	**297.948**	ug/L	4.259	1	556	6203282	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	16511	1	KED
|	**Ni**	**60**	**7.067**	ug/L	0.115	1	7	4480	0	KED
|	**Ni**	**62**	**7.225**	ug/L	0.061	0	3	763	1	KED
|	**Cu**	**63**	**3.065**	ug/L	0.077	2	33	5646	1	KED
|	**Cu**	**65**	**3.080**	ug/L	0.030	0	22	2819	0	KED
|	**Zn**	**66**	**2.079**	ug/L	0.093	4	28	545	2	KED
|	**Zn**	**67**	**3.477**	ug/L	0.271	7	9	154	8	KED
⌊	**As**	**75**	**0.956**	ug/L	0.141	14	5	131	12	KED
	Y	**89**		ug/L			196093	207696	1	Standard
	Kr	**83**		ug/L			62	70	25	Standard
⌈>	**In-1**	**115**		ug/L			4601	4562	2	KED
|	**Cd**	**111**	**0.052**	ug/L	0.015	29	2	10	24	KED
⌊	**Cd**	**114**	**0.063**	ug/L	0.036	57	4	27	46	KED
⌈>	**Tb**	**159**		ug/L			390590	396913	0	Standard
⌊	**Pb**	**208**	**0.029**	ug/L	0.002	6	226	1118	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-11
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:53:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	46394	2	Standard
	Cl	**37**		ug/L			4432381	5348497	0	Standard
>	**Sc**	**45**		ug/L			373524	572263	0	Standard
	Cr	**52**	**0.375**	ug/L	0.012	3	9461	21742	0	Standard
	Cr	**53**	**0.520**	ug/L	0.016	3	665	2184	0	Standard
	Mn	**55**	**1907.571**	ug/L	47.263	2	556	49574397	1	Standard
>	**Ge**	**72**		ug/L			17301	16459	2	KED
	Ni	**60**	**2.356**	ug/L	0.085	3	7	1493	1	KED
	Ni	**62**	**2.328**	ug/L	0.243	10	3	247	9	KED
	Cu	**63**	**0.256**	ug/L	0.018	6	33	500	9	KED
	Cu	**65**	**0.219**	ug/L	0.014	6	22	220	7	KED
	Zn	**66**	**1.661**	ug/L	0.137	8	28	440	10	KED
	Zn	**67**	**3.230**	ug/L	0.158	4	9	143	6	KED
	As	**75**	**18.092**	ug/L	0.111	0	5	2389	2	KED
	Y	**89**		ug/L			196093	211323	1	Standard
	Kr	**83**		ug/L			62	43	36	Standard
>	**In-1**	**115**		ug/L			4601	4363	0	KED
	Cd	**111**	**0.038**	ug/L	0.013	35	2	7	24	KED
	Cd	**114**	**0.018**	ug/L	0.005	25	4	10	15	KED
>	**Tb**	**159**		ug/L			390590	396979	0	Standard
	Pb	**208**	**0.053**	ug/L	0.002	3	226	1838	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-13
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 05:57:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	44836	1	Standard
	Cl	**37**		ug/L			4432381	5018643	0	Standard
>	**Sc**	**45**		ug/L			373524	612049	2	Standard
	Cr	**52**	**0.443**	ug/L	0.020	4	9461	24675	3	Standard
	Cr	**53**	**0.633**	ug/L	0.023	3	665	2607	3	Standard
	Mn	**55**	**1476.142**	ug/L	27.762	1	556	41023854	0	Standard
>	**Ge**	**72**		ug/L			17301	16497	1	KED
	Ni	**60**	**2.595**	ug/L	0.077	2	7	1648	1	KED
	Ni	**62**	**2.552**	ug/L	0.368	14	3	271	13	KED
	Cu	**63**	**0.513**	ug/L	0.028	5	33	971	5	KED
	Cu	**65**	**0.512**	ug/L	0.054	10	22	486	9	KED
	Zn	**66**	**7.355**	ug/L	0.504	6	28	1859	5	KED
	Zn	**67**	**8.978**	ug/L	1.205	13	9	383	13	KED
	As	**75**	**8.695**	ug/L	0.184	2	5	1153	2	KED
	Y	**89**		ug/L			196093	204336	0	Standard
	Kr	**83**		ug/L			62	55	28	Standard
>	**In-1**	**115**		ug/L			4601	4416	0	KED
	Cd	**111**	**0.180**	ug/L	0.057	31	2	28	29	KED
	Cd	**114**	**0.151**	ug/L	0.040	26	4	58	23	KED
>	**Tb**	**159**		ug/L			390590	398169	0	Standard
	Pb	**208**	**0.099**	ug/L	0.004	3	226	3259	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-15
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:02:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	46075	2	Standard
	Cl	**37**		ug/L			4432381	4974558	1	Standard
>	**Sc**	**45**		ug/L			373524	506410	1	Standard
	Cr	**52**	**1.344**	ug/L	0.017	1	9461	35822	2	Standard
	Cr	**53**	**1.640**	ug/L	0.037	2	665	4151	0	Standard
	Mn	**55**	**1184.885**	ug/L	5.011	0	556	27251966	1	Standard
>	**Ge**	**72**		ug/L			17301	16906	1	KED
	Ni	**60**	**4.050**	ug/L	0.100	2	7	2632	3	KED
	Ni	**62**	**3.922**	ug/L	0.403	10	3	426	9	KED
	Cu	**63**	**4.789**	ug/L	0.145	3	33	9016	2	KED
	Cu	**65**	**4.805**	ug/L	0.274	5	22	4488	4	KED
	Zn	**66**	**27.326**	ug/L	0.981	3	28	7003	2	KED
	Zn	**67**	**28.453**	ug/L	2.074	7	9	1224	5	KED
	As	**75**	**8.348**	ug/L	0.088	1	5	1135	0	KED
	Y	**89**		ug/L			196093	219943	1	Standard
	Kr	**83**		ug/L			62	63	15	Standard
>	**In-1**	**115**		ug/L			4601	4508	3	KED
	Cd	**111**	**2.221**	ug/L	0.100	4	2	333	0	KED
	Cd	**114**	**2.166**	ug/L	0.115	5	4	791	5	KED
>	**Tb**	**159**		ug/L			390590	396069	1	Standard
	Pb	**208**	**2.062**	ug/L	0.022	1	226	63034	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:06:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	30588	1	Standard
	Cl	**37**		ug/L			4432381	4070910	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	376823	1	Standard
⎢	**Cr**	**52**	**-0.006**	ug/L	0.011	168	9461	9463	0	Standard
⎢	**Cr**	**53**	**-0.107**	ug/L	0.016	14	665	513	3	Standard
⎣	**Mn**	**55**	**0.003**	ug/L	0.001	36	556	620	2	Standard
⎡>	**Ge**	**72**		ug/L			17301	18081	1	KED
⎢	**Ni**	**60**	**0.004**	ug/L	0.006	154	7	10	40	KED
⎢	**Ni**	**62**	**-0.013**	ug/L	0.025	193	3	2	114	KED
⎢	**Cu**	**63**	**0.111**	ug/L	0.005	4	33	257	3	KED
⎢	**Cu**	**65**	**0.101**	ug/L	0.028	27	22	125	24	KED
⎢	**Zn**	**66**	**-0.002**	ug/L	0.039	1934	28	29	35	KED
⎢	**Zn**	**67**	**-0.107**	ug/L	0.062	57	9	5	57	KED
⎣	**As**	**75**	**-0.008**	ug/L	0.010	127	5	4	31	KED
	Y	**89**		ug/L			196093	194948	0	Standard
	Kr	**83**		ug/L			62	55	22	Standard
⎡>	**In-1**	**115**		ug/L			4601	4797	1	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.009	174	2	3	41	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.005	437	4	5	34	KED
⎡>	**Tb**	**159**		ug/L			390590	385777	1	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	8	226	149	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:10:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	28988	2	Standard
	Cl	**37**		ug/L			4432381	4440425	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	387176	0	Standard
⎢	**Cr**	**52**	**50.666**	ug/L	0.813	1	9461	672343	1	Standard
⎢	**Cr**	**53**	**50.841**	ug/L	0.216	0	665	77740	0	Standard
⎣	**Mn**	**55**	**53.850**	ug/L	0.403	0	556	947525	1	Standard
⎡>	**Ge**	**72**		ug/L			17301	17591	1	KED
⎢	**Ni**	**60**	**50.674**	ug/L	1.814	3	7	34172	2	KED
⎢	**Ni**	**62**	**50.560**	ug/L	0.750	1	3	5671	1	KED
⎢	**Cu**	**63**	**50.957**	ug/L	1.550	3	33	99479	1	KED
⎢	**Cu**	**65**	**51.795**	ug/L	0.769	1	22	50150	2	KED
⎢	**Zn**	**66**	**51.123**	ug/L	1.411	2	28	13608	1	KED
⎢	**Zn**	**67**	**51.439**	ug/L	1.507	2	9	2296	2	KED
⎣	**As**	**75**	**50.787**	ug/L	0.645	1	5	7157	0	KED
	Y	**89**		ug/L			196093	202954	1	Standard
	Kr	**83**		ug/L			62	73	19	Standard
⎡>	**In-1**	**115**		ug/L			4601	4592	0	KED
⎢	**Cd**	**111**	**50.826**	ug/L	0.718	1	2	7738	1	KED
⎣	**Cd**	**114**	**51.026**	ug/L	1.267	2	4	18892	2	KED
⎡>	**Tb**	**159**		ug/L			390590	404248	1	Standard
⎣	**Pb**	**208**	**52.493**	ug/L	0.774	1	226	1631468	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:18:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	27755	1	Standard
	Cl	**37**		ug/L			4432381	4052739	2	Standard
⎡>	**Sc**	**45**		ug/L			373524	379394	0	Standard
⎢	**Cr**	**52**	**-0.003**	ug/L	0.007	203	9461	9566	1	Standard
⎢	**Cr**	**53**	**-0.204**	ug/L	0.019	9	665	372	6	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	22	556	513	2	Standard
⎡>	**Ge**	**72**		ug/L			17301	17209	1	KED
⎢	**Ni**	**60**	**-0.008**	ug/L	0.002	21	7	2	43	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.019	165	3	5	43	KED
⎢	**Cu**	**63**	**-0.006**	ug/L	0.006	96	33	21	50	KED
⎢	**Cu**	**65**	**-0.007**	ug/L	0.010	146	22	16	58	KED
⎢	**Zn**	**66**	**-0.078**	ug/L	0.022	28	28	8	70	KED
⎢	**Zn**	**67**	**-0.203**	ug/L	0.025	12	9	0	173	KED
⎣	**As**	**75**	**0.000**	ug/L	0.009	2790	5	5	19	KED
	Y	**89**		ug/L			196093	202991	0	Standard
	Kr	**83**		ug/L			62	54	7	Standard
⎡>	**In-1**	**115**		ug/L			4601	4756	1	KED
⎢	**Cd**	**111**	**0.012**	ug/L	0.013	111	2	4	44	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.008	270	4	6	47	KED
⎡>	**Tb**	**159**		ug/L			390590	392361	0	Standard
⎣	**Pb**	**208**	**-0.005**	ug/L	0.001	11	226	78	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0382-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:22:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	787652	0	Standard
	Cl	**37**		ug/L			4432381	4808762	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	414539	1	Standard
|	**Cr**	**52**	**4.285**	ug/L	0.057	1	9461	70490	0	Standard
|	**Cr**	**53**	**1.726**	ug/L	0.021	1	665	3539	0	Standard
⌊	**Mn**	**55**	**32.721**	ug/L	0.623	1	556	616551	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	16108	0	KED
|	**Ni**	**60**	**21.527**	ug/L	0.368	1	7	13303	2	KED
|	**Ni**	**62**	**21.286**	ug/L	0.261	1	3	2188	0	KED
|	**Cu**	**63**	**1.281**	ug/L	0.037	2	33	2320	2	KED
|	**Cu**	**65**	**1.387**	ug/L	0.064	4	22	1250	4	KED
|	**Zn**	**66**	**24.331**	ug/L	0.664	2	28	5945	2	KED
|	**Zn**	**67**	**22.726**	ug/L	0.957	4	9	933	3	KED
⌊	**As**	**75**	**0.110**	ug/L	0.030	27	5	19	20	KED
	Y	**89**		ug/L			196093	203559	1	Standard
	Kr	**83**		ug/L			62	86	5	Standard
⌈>	**In-1**	**115**		ug/L			4601	4261	1	KED
|	**Cd**	**111**	**0.064**	ug/L	0.012	18	2	11	16	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.013	109	4	8	51	KED
⌈>	**Tb**	**159**		ug/L			390590	375578	0	Standard
⌊	**Pb**	**208**	**0.386**	ug/L	0.009	2	226	11349	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0393-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:27:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	178360	1	Standard
	Cl	37		ug/L			4432381	4694348	0	Standard
>	Sc	45		ug/L			373524	400191	2	Standard
	Cr	52	21.395	ug/L	0.457	2	9461	299231	0	Standard
	Cr	53	20.667	ug/L	0.540	2	665	33073	0	Standard
	Mn	55	330.531	ug/L	2.347	0	556	6008812	3	Standard
>	Ge	72		ug/L			17301	14271	0	KED
	Ni	60	23.091	ug/L	0.333	1	7	12641	1	KED
	Ni	62	22.887	ug/L	0.905	3	3	2084	3	KED
	Cu	63	0.883	ug/L	0.015	1	33	1426	1	KED
	Cu	65	0.872	ug/L	0.024	2	22	703	2	KED
	Zn	66	26.807	ug/L	0.683	2	28	5802	3	KED
	Zn	67	24.406	ug/L	1.076	4	9	888	5	KED
	As	75	0.175	ug/L	0.018	10	5	24	7	KED
	Y	89		ug/L			196093	193523	3	Standard
	Kr	83		ug/L			62	81	6	Standard
>	In-1	115		ug/L			4601	3784	0	KED
	Cd	111	0.512	ug/L	0.095	18	2	66	18	KED
	Cd	114	0.516	ug/L	0.105	20	4	161	19	KED
>	Tb	159		ug/L			390590	332124	1	Standard
	Pb	208	0.058	ug/L	0.003	5	226	1669	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0401-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:33:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	161032	0	Standard
	Cl	37		ug/L			4432381	4561073	0	Standard
>	Sc	45		ug/L			373524	404254	0	Standard
	Cr	52	5.814	ug/L	0.051	0	9461	89627	1	Standard
	Cr	53	5.153	ug/L	0.042	0	665	8873	0	Standard
	Mn	55	534.162	ug/L	2.964	0	556	9808057	0	Standard
>	Ge	72		ug/L			17301	12820	2	KED
	Ni	60	25.191	ug/L	0.272	1	7	12386	1	KED
	Ni	62	24.058	ug/L	1.147	4	3	1968	5	KED
	Cu	63	1.666	ug/L	0.065	3	33	2395	3	KED
	Cu	65	1.620	ug/L	0.005	0	22	1159	2	KED
	Zn	66	31.199	ug/L	0.548	1	28	6062	2	KED
	Zn	67	28.270	ug/L	0.434	1	9	923	3	KED
	As	75	0.325	ug/L	0.007	2	5	37	0	KED
	Y	89		ug/L			196093	190855	0	Standard
	Kr	83		ug/L			62	68	19	Standard
>	In-1	115		ug/L			4601	3481	1	KED
	Cd	111	0.738	ug/L	0.049	6	2	86	5	KED
	Cd	114	0.695	ug/L	0.039	5	4	198	5	KED
>	Tb	159		ug/L			390590	324804	1	Standard
	Pb	208	0.020	ug/L	0.002	8	226	678	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:37:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	31474	1	Standard
	Cl	**37**		ug/L			4432381	4775810	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	393722	2	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.012	482	9461	10004	0	Standard
|	**Cr**	**53**	**-0.274**	ug/L	0.012	4	665	277	4	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.003	1295	556	591	10	Standard
⌈>	**Ge**	**72**		ug/L			17301	16564	3	KED
|	**Ni**	**60**	**0.008**	ug/L	0.003	45	7	12	18	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.018	112	3	1	100	KED
|	**Cu**	**63**	**0.123**	ug/L	0.012	9	33	259	11	KED
|	**Cu**	**65**	**0.108**	ug/L	0.014	12	22	120	11	KED
|	**Zn**	**66**	**0.089**	ug/L	0.032	36	28	49	13	KED
|	**Zn**	**67**	**-0.020**	ug/L	0.107	535	9	8	53	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.015	170	5	4	46	KED
	Y	**89**		ug/L			196093	199637	2	Standard
	Kr	**83**		ug/L			62	50	2	Standard
⌈>	**In-1**	**115**		ug/L			4601	4256	3	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.008	106	2	1	86	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.006	72	4	1	110	KED
⌈>	**Tb**	**159**		ug/L			390590	346815	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	14	226	109	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0452-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:42:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	46050	1	Standard
	Cl	**37**		ug/L			4432381	4849141	2	Standard
>	**Sc**	**45**		ug/L			373524	511405	2	Standard
	Cr	**52**	**1.064**	ug/L	0.019	1	9461	31329	2	Standard
	Cr	**53**	**1.411**	ug/L	0.056	4	665	3732	1	Standard
	Mn	**55**	**364.331**	ug/L	4.277	1	556	8461680	0	Standard
>	**Ge**	**72**		ug/L			17301	16718	1	KED
	Ni	**60**	**14.475**	ug/L	0.473	3	7	9283	2	KED
	Ni	**62**	**14.570**	ug/L	0.472	3	3	1555	2	KED
	Cu	**63**	**32.080**	ug/L	0.494	1	33	59543	0	KED
	Cu	**65**	**31.290**	ug/L	0.983	3	22	28793	1	KED
	Zn	**66**	**166.477**	ug/L	2.204	1	28	42061	0	KED
	Zn	**67**	**147.679**	ug/L	3.007	2	9	6248	1	KED
	As	**75**	**0.689**	ug/L	0.019	2	5	97	1	KED
	Y	**89**		ug/L			196093	229717	0	Standard
	Kr	**83**		ug/L			62	53	10	Standard
>	**In-1**	**115**		ug/L			4601	4229	2	KED
	Cd	**111**	**0.390**	ug/L	0.033	8	2	57	10	KED
	Cd	**114**	**0.375**	ug/L	0.037	9	4	132	7	KED
>	**Tb**	**159**		ug/L			390590	365298	0	Standard
	Pb	**208**	**5.805**	ug/L	0.044	0	226	163246	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0452-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:46:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	43684	2	Standard
	Cl	**37**		ug/L			4432381	4819952	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	433243	1	Standard
|	**Cr**	**52**	**0.747**	ug/L	0.014	1	9461	21903	2	Standard
|	**Cr**	**53**	**0.864**	ug/L	0.016	1	665	2236	1	Standard
⌊	**Mn**	**55**	**202.149**	ug/L	4.029	1	556	3977547	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	17412	3	KED
|	**Ni**	**60**	**5.529**	ug/L	0.169	3	7	3696	0	KED
|	**Ni**	**62**	**5.726**	ug/L	0.312	5	3	638	3	KED
|	**Cu**	**63**	**21.593**	ug/L	0.888	4	33	41722	1	KED
|	**Cu**	**65**	**21.084**	ug/L	0.575	2	22	20210	1	KED
|	**Zn**	**66**	**69.451**	ug/L	2.813	4	28	18278	0	KED
|	**Zn**	**67**	**63.244**	ug/L	0.781	1	9	2792	2	KED
⌊	**As**	**75**	**0.342**	ug/L	0.083	24	5	53	18	KED
	Y	**89**		ug/L			196093	210455	2	Standard
	Kr	**83**		ug/L			62	57	14	Standard
⌈>	**In-1**	**115**		ug/L			4601	4455	1	KED
|	**Cd**	**111**	**0.233**	ug/L	0.020	8	2	36	6	KED
⌊	**Cd**	**114**	**0.185**	ug/L	0.049	26	4	71	24	KED
⌈>	**Tb**	**159**		ug/L			390590	368694	1	Standard
⌊	**Pb**	**208**	**4.409**	ug/L	0.038	0	226	125190	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0387-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:51:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	45257	0	Standard
	Cl	37		ug/L			4432381	5239642	0	Standard
>	Sc	45		ug/L			373524	544767	0	Standard
	Cr	52	0.858	ug/L	0.024	2	9461	29578	1	Standard
	Cr	53	1.967	ug/L	0.036	1	665	5164	1	Standard
	Mn	55	0.609	ug/L	0.005	0	556	15889	0	Standard
>	Ge	72		ug/L			17301	16172	1	KED
	Ni	60	1.212	ug/L	0.117	9	7	758	10	KED
	Ni	62	1.166	ug/L	0.033	2	3	123	4	KED
	Cu	63	3.029	ug/L	0.052	1	33	5467	0	KED
	Cu	65	3.071	ug/L	0.077	2	22	2754	4	KED
	Zn	66	1.578	ug/L	0.061	3	28	412	2	KED
	Zn	67	2.740	ug/L	0.522	19	9	120	15	KED
	As	75	3.714	ug/L	0.200	5	5	485	4	KED
	Y	89		ug/L			196093	207805	0	Standard
	Kr	83		ug/L			62	65	23	Standard
>	In-1	115		ug/L			4601	4004	0	KED
	Cd	111	0.019	ug/L	0.015	75	2	4	40	KED
	Cd	114	0.002	ug/L	0.012	740	4	4	80	KED
>	Tb	159		ug/L			390590	367285	1	Standard
	Pb	208	0.020	ug/L	0.001	5	226	766	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0716-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 06:55:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	43583	3	Standard
	Cl	37		ug/L			4432381	5186321	1	Standard
>	Sc	45		ug/L			373524	519129	1	Standard
	Cr	52	0.833	ug/L	0.038	4	9461	27745	1	Standard
	Cr	53	2.070	ug/L	0.030	1	665	5131	2	Standard
	Mn	55	0.615	ug/L	0.011	1	556	15266	1	Standard
>	Ge	72		ug/L			17301	15975	3	KED
	Ni	60	1.189	ug/L	0.088	7	7	733	4	KED
	Ni	62	1.193	ug/L	0.106	8	3	125	10	KED
	Cu	63	3.143	ug/L	0.083	2	33	5599	1	KED
	Cu	65	3.092	ug/L	0.081	2	22	2737	0	KED
	Zn	66	1.516	ug/L	0.074	4	28	391	2	KED
	Zn	67	2.695	ug/L	0.224	8	9	117	6	KED
	As	75	3.732	ug/L	0.159	4	5	482	1	KED
	Y	89		ug/L			196093	198255	0	Standard
	Kr	83		ug/L			62	53	15	Standard
>	In-1	115		ug/L			4601	4145	2	KED
	Cd	111	0.009	ug/L	0.011	124	2	3	41	KED
	Cd	114	-0.006	ug/L	0.009	136	4	2	126	KED
>	Tb	159		ug/L			390590	361500	1	Standard
	Pb	208	0.022	ug/L	0.002	7	226	829	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0716-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:00:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	43134	1	Standard
	Cl	37		ug/L			4432381	5227318	0	Standard
>	Sc	45		ug/L			373524	531620	1	Standard
|	Cr	52	19.863	ug/L	0.134	0	9461	370118	1	Standard
|	Cr	53	21.303	ug/L	0.212	0	665	45275	1	Standard
_	Mn	55	21.237	ug/L	0.100	0	556	513569	1	Standard
>	Ge	72		ug/L			17301	16062	1	KED
|	Ni	60	28.418	ug/L	0.375	1	7	17506	0	KED
|	Ni	62	28.432	ug/L	0.316	1	3	2913	1	KED
|	Cu	63	29.494	ug/L	0.494	1	33	52595	0	KED
|	Cu	65	29.379	ug/L	0.190	0	22	25981	1	KED
|	Zn	66	80.196	ug/L	0.754	0	28	19480	0	KED
|	Zn	67	75.472	ug/L	1.210	1	9	3072	0	KED
_	As	75	29.347	ug/L	0.526	1	5	3778	1	KED
	Y	89		ug/L			196093	201422	0	Standard
	Kr	83		ug/L			62	47	26	Standard
>	In-1	115		ug/L			4601	4032	3	KED
|	Cd	111	25.869	ug/L	1.100	4	2	3455	0	KED
_	Cd	114	26.023	ug/L	1.028	3	4	8454	0	KED
>	Tb	159		ug/L			390590	366035	0	Standard
_	Pb	208	27.123	ug/L	0.245	0	226	763529	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:04:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	30893	2	Standard
	Cl	**37**		ug/L			4432381	4755067	0	Standard
⎡>	**Sc**	**45**		ug/L			373524	395207	2	Standard
⎢	**Cr**	**52**	**-0.019**	ug/L	0.016	85	9461	9750	1	Standard
⎢	**Cr**	**53**	**-0.102**	ug/L	0.013	12	665	545	1	Standard
⎣	**Mn**	**55**	**-0.005**	ug/L	0.001	14	556	492	3	Standard
⎡>	**Ge**	**72**		ug/L			17301	17366	0	KED
⎢	**Ni**	**60**	**-0.005**	ug/L	0.007	152	7	4	107	KED
⎢	**Ni**	**62**	**0.006**	ug/L	0.026	473	3	4	65	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.006	6938	33	33	37	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.005	87	22	17	29	KED
⎢	**Zn**	**66**	**-0.061**	ug/L	0.016	25	28	12	31	KED
⎢	**Zn**	**67**	**-0.102**	ug/L	0.050	48	9	5	43	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.012	253	5	4	33	KED
	Y	**89**		ug/L			196093	201123	0	Standard
	Kr	**83**		ug/L			62	52	17	Standard
⎡>	**In-1**	**115**		ug/L			4601	4320	1	KED
⎢	**Cd**	**111**	**0.021**	ug/L	0.013	63	2	5	36	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.007	827	4	4	53	KED
⎡>	**Tb**	**159**		ug/L			390590	363952	0	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	53	226	173	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:08:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	29745	2	Standard
	Cl	**37**		ug/L			4432381	4976239	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	408287	2	Standard
|	**Cr**	**52**	**49.681**	ug/L	1.748	3	9461	695055	1	Standard
|	**Cr**	**53**	**49.676**	ug/L	1.412	2	665	80082	0	Standard
⌊	**Mn**	**55**	**53.352**	ug/L	1.434	2	556	989513	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	16964	1	KED
|	**Ni**	**60**	**52.995**	ug/L	1.507	2	7	34469	1	KED
|	**Ni**	**62**	**52.512**	ug/L	1.708	3	3	5679	2	KED
|	**Cu**	**63**	**53.915**	ug/L	1.368	2	33	101507	1	KED
|	**Cu**	**65**	**52.628**	ug/L	0.682	1	22	49133	0	KED
|	**Zn**	**66**	**52.104**	ug/L	1.938	3	28	13375	2	KED
|	**Zn**	**67**	**49.571**	ug/L	0.886	1	9	2134	2	KED
⌊	**As**	**75**	**50.820**	ug/L	0.524	1	5	6907	0	KED
	Y	**89**		ug/L			196093	206535	0	Standard
	Kr	**83**		ug/L			62	74	8	Standard
⌈>	**In-1**	**115**		ug/L			4601	4413	1	KED
|	**Cd**	**111**	**52.281**	ug/L	0.494	0	2	7650	1	KED
⌊	**Cd**	**114**	**51.518**	ug/L	0.461	0	4	18333	0	KED
⌈>	**Tb**	**159**		ug/L			390590	377319	1	Standard
⌊	**Pb**	**208**	**54.462**	ug/L	0.285	0	226	1580129	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:16:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	28261	2	Standard
	Cl	**37**		ug/L			4432381	4678863	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	391996	0	Standard
|	**Cr**	**52**	**-0.032**	ug/L	0.019	59	9461	9499	1	Standard
|	**Cr**	**53**	**-0.255**	ug/L	0.013	5	665	306	6	Standard
⌊	**Mn**	**55**	**-0.009**	ug/L	0.001	13	556	431	5	Standard
⌈>	**Ge**	**72**		ug/L			17301	16827	0	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.005	68	7	3	91	KED
|	**Ni**	**62**	**0.001**	ug/L	0.000	22	3	3	0	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	52	33	34	3	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.007	96	22	15	38	KED
|	**Zn**	**66**	**-0.072**	ug/L	0.015	20	28	9	40	KED
|	**Zn**	**67**	**-0.143**	ug/L	0.068	47	9	3	91	KED
⌊	**As**	**75**	**0.018**	ug/L	0.014	81	5	7	24	KED
	Y	**89**		ug/L			196093	202181	1	Standard
	Kr	**83**		ug/L			62	49	10	Standard
⌈>	**In-1**	**115**		ug/L			4601	4342	0	KED
|	**Cd**	**111**	**0.010**	ug/L	0.017	177	2	3	66	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.003	66	4	3	36	KED
⌈>	**Tb**	**159**		ug/L			390590	364885	0	Standard
⌊	**Pb**	**208**	**-0.004**	ug/L	0.000	9	226	98	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0023-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:20:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	34888	1	Standard
	Cl	**37**		ug/L			4432381	4681937	1	Standard
>	**Sc**	**45**		ug/L			373524	409381	0	Standard
	Cr	**52**	**0.121**	ug/L	0.024	20	9461	12041	2	Standard
	Cr	**53**	**-0.123**	ug/L	0.005	4	665	532	1	Standard
	Mn	**55**	**0.024**	ug/L	0.001	4	556	1056	2	Standard
>	**Ge**	**72**		ug/L			17301	17088	1	KED
	Ni	**60**	**0.002**	ug/L	0.002	79	7	8	12	KED
	Ni	**62**	**0.000**	ug/L	0.017	5553	3	3	50	KED
	Cu	**63**	**0.075**	ug/L	0.009	12	33	175	10	KED
	Cu	**65**	**0.058**	ug/L	0.008	13	22	76	9	KED
	Zn	**66**	**0.119**	ug/L	0.012	10	28	59	6	KED
	Zn	**67**	**0.047**	ug/L	0.046	97	9	11	16	KED
	As	**75**	**0.005**	ug/L	0.015	293	5	6	33	KED
	Y	**89**		ug/L			196093	210129	0	Standard
	Kr	**83**		ug/L			62	52	12	Standard
>	**In-1**	**115**		ug/L			4601	4426	3	KED
	Cd	**111**	**0.005**	ug/L	0.010	202	2	3	45	KED
	Cd	**114**	**-0.003**	ug/L	0.011	382	4	3	102	KED
>	**Tb**	**159**		ug/L			390590	370845	0	Standard
	Pb	**208**	**0.001**	ug/L	0.001	143	226	238	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0023-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:24:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	36491	2	Standard
	Cl	**37**		ug/L			4432381	4892292	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	406461	0	Standard
|	**Cr**	**52**	**25.592**	ug/L	0.315	1	9461	361627	0	Standard
|	**Cr**	**53**	**25.412**	ug/L	0.180	0	665	41154	0	Standard
⌊	**Mn**	**55**	**27.573**	ug/L	0.184	0	556	509611	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	16004	4	KED
|	**Ni**	**60**	**28.310**	ug/L	1.347	4	7	17356	0	KED
|	**Ni**	**62**	**28.038**	ug/L	1.867	6	3	2858	3	KED
|	**Cu**	**63**	**29.052**	ug/L	1.558	5	33	51557	1	KED
|	**Cu**	**65**	**28.290**	ug/L	0.781	2	22	24911	1	KED
|	**Zn**	**66**	**89.389**	ug/L	3.258	3	28	21613	0	KED
|	**Zn**	**67**	**84.136**	ug/L	3.603	4	9	3408	0	KED
⌊	**As**	**75**	**26.882**	ug/L	1.198	4	5	3445	0	KED
	Y	**89**		ug/L			196093	205976	1	Standard
	Kr	**83**		ug/L			62	72	25	Standard
⌈>	**In-1**	**115**		ug/L			4601	4440	4	KED
|	**Cd**	**111**	**25.908**	ug/L	1.317	5	2	3809	0	KED
⌊	**Cd**	**114**	**25.959**	ug/L	2.096	8	4	9271	3	KED
⌈>	**Tb**	**159**		ug/L			390590	379974	1	Standard
⌊	**Pb**	**208**	**27.715**	ug/L	0.174	0	226	809856	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0416-84
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:29:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	39175	0	Standard
	Cl	**37**		ug/L			4432381	4525607	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	420095	1	Standard
|	**Cr**	**52**	**0.199**	ug/L	0.004	1	9461	13468	1	Standard
|	**Cr**	**53**	**-0.029**	ug/L	0.012	39	665	699	3	Standard
⌊	**Mn**	**55**	**1.149**	ug/L	0.017	1	556	22544	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	17213	2	KED
|	**Ni**	**60**	**0.279**	ug/L	0.018	6	7	191	7	KED
|	**Ni**	**62**	**0.267**	ug/L	0.082	30	3	33	26	KED
|	**Cu**	**63**	**0.094**	ug/L	0.011	11	33	213	7	KED
|	**Cu**	**65**	**0.082**	ug/L	0.008	10	22	100	6	KED
|	**Zn**	**66**	**0.586**	ug/L	0.090	15	28	180	14	KED
|	**Zn**	**67**	**0.454**	ug/L	0.067	14	9	29	9	KED
⌊	**As**	**75**	**0.015**	ug/L	0.010	65	5	7	16	KED
	Y	**89**		ug/L			196093	208948	1	Standard
	Kr	**83**		ug/L			62	58	18	Standard
⌈>	**In-1**	**115**		ug/L			4601	4559	2	KED
|	**Cd**	**111**	**0.015**	ug/L	0.016	108	2	4	52	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.005	60	4	1	104	KED
⌈>	**Tb**	**159**		ug/L			390590	380527	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	226	380	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0416-83
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:33:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	40111	2	Standard
	Cl	37		ug/L			4432381	4389718	1	Standard
⌈>	Sc	45		ug/L			373524	416868	1	Standard
|	Cr	52	0.351	ug/L	0.024	6	9461	15496	2	Standard
|	Cr	53	0.083	ug/L	0.029	35	665	876	4	Standard
⌊	Mn	55	1.811	ug/L	0.037	2	556	34909	0	Standard
⌈>	Ge	72		ug/L			17301	17457	0	KED
|	Ni	60	0.207	ug/L	0.021	9	7	146	9	KED
|	Ni	62	0.188	ug/L	0.046	24	3	24	20	KED
|	Cu	63	0.138	ug/L	0.007	5	33	301	4	KED
|	Cu	65	0.136	ug/L	0.003	1	22	153	1	KED
|	Zn	66	1.013	ug/L	0.060	5	28	295	5	KED
|	Zn	67	0.617	ug/L	0.134	21	9	36	15	KED
⌊	As	75	0.019	ug/L	0.014	75	5	8	24	KED
	Y	89		ug/L			196093	210325	1	Standard
	Kr	83		ug/L			62	50	8	Standard
⌈>	In-1	115		ug/L			4601	4661	2	KED
|	Cd	111	0.012	ug/L	0.016	130	2	4	53	KED
⌊	Cd	114	-0.004	ug/L	0.005	105	4	3	50	KED
⌈>	Tb	159		ug/L			390590	377645	1	Standard
⌊	Pb	208	0.022	ug/L	0.001	2	226	844	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0718-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:37:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	39933	1	Standard
	Cl	37		ug/L			4432381	4360788	1	Standard
⌈>	Sc	45		ug/L			373524	410208	1	Standard
|	Cr	52	0.269	ug/L	0.020	7	9461	14113	0	Standard
|	Cr	53	0.037	ug/L	0.028	74	665	789	3	Standard
⌊	Mn	55	1.805	ug/L	0.031	1	556	34225	0	Standard
⌈>	Ge	72		ug/L			17301	17549	2	KED
|	Ni	60	0.195	ug/L	0.012	6	7	139	7	KED
|	Ni	62	0.141	ug/L	0.025	17	3	19	14	KED
|	Cu	63	0.113	ug/L	0.005	4	33	253	2	KED
|	Cu	65	0.107	ug/L	0.026	24	22	126	20	KED
|	Zn	66	0.967	ug/L	0.104	10	28	285	8	KED
|	Zn	67	0.710	ug/L	0.347	48	9	41	38	KED
⌊	As	75	-0.005	ug/L	0.007	145	5	4	20	KED
	Y	89		ug/L			196093	206622	0	Standard
	Kr	83		ug/L			62	59	17	Standard
⌈>	In-1	115		ug/L			4601	4608	4	KED
|	Cd	111	0.023	ug/L	0.008	35	2	6	24	KED
⌊	Cd	114	-0.003	ug/L	0.007	196	4	3	73	KED
⌈>	Tb	159		ug/L			390590	375345	2	Standard
⌊	Pb	208	0.020	ug/L	0.001	6	226	793	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0718-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:42:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	37628	0	Standard
	Cl	37		ug/L			4432381	4627079	0	Standard
>	Sc	45		ug/L			373524	419814	0	Standard
	Cr	52	26.036	ug/L	0.245	0	9461	379824	1	Standard
	Cr	53	26.227	ug/L	0.171	0	665	43846	0	Standard
	Mn	55	28.994	ug/L	0.496	1	556	553427	1	Standard
>	Ge	72		ug/L			17301	17303	1	KED
	Ni	60	27.501	ug/L	0.252	0	7	18253	2	KED
	Ni	62	27.235	ug/L	0.891	3	3	3006	2	KED
	Cu	63	27.094	ug/L	0.401	1	33	52052	0	KED
	Cu	65	27.230	ug/L	0.706	2	22	25939	1	KED
	Zn	66	86.310	ug/L	0.555	0	28	22584	0	KED
	Zn	67	78.501	ug/L	1.333	1	9	3442	1	KED
	As	75	25.855	ug/L	0.192	0	5	3587	1	KED
	Y	89		ug/L			196093	205186	0	Standard
	Kr	83		ug/L			62	76	9	Standard
>	In-1	115		ug/L			4601	4513	3	KED
	Cd	111	25.728	ug/L	1.534	5	2	3845	2	KED
	Cd	114	26.732	ug/L	1.114	4	4	9721	1	KED
>	Tb	159		ug/L			390590	380854	0	Standard
	Pb	208	28.670	ug/L	0.022	0	226	839746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:46:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27647	41608	4	Standard
	Cl	37		ug/L			4432381	4624622	0	Standard
>	Sc	45		ug/L			373524	510067	1	Standard
	Cr	52	0.398	ug/L	0.007	1	9461	19774	0	Standard
	Cr	53	1.212	ug/L	0.012	0	665	3328	1	Standard
	Mn	55	40.113	ug/L	0.320	0	556	929996	1	Standard
>	Ge	72		ug/L			17301	17399	1	KED
	Ni	60	0.458	ug/L	0.029	6	7	313	7	KED
	Ni	62	0.505	ug/L	0.120	23	3	59	20	KED
	Cu	63	1.029	ug/L	0.083	8	33	2017	6	KED
	Cu	65	0.990	ug/L	0.055	5	22	970	5	KED
	Zn	66	1.544	ug/L	0.176	11	28	434	9	KED
	Zn	67	2.589	ug/L	0.481	18	9	123	15	KED
	As	75	0.874	ug/L	0.039	4	5	127	4	KED
	Y	89		ug/L			196093	212714	0	Standard
	Kr	83		ug/L			62	51	16	Standard
>	In-1	115		ug/L			4601	4558	1	KED
	Cd	111	0.015	ug/L	0.006	40	2	4	20	KED
	Cd	114	0.004	ug/L	0.017	480	4	6	101	KED
>	Tb	159		ug/L			390590	387673	1	Standard
	Pb	208	0.297	ug/L	0.002	0	226	9091	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:51:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	43545	2	Standard
	Cl	**37**		ug/L			4432381	4508384	0	Standard
>	**Sc**	**45**		ug/L			373524	498412	1	Standard
	Cr	**52**	**0.384**	ug/L	0.009	2	9461	19086	1	Standard
	Cr	**53**	**1.149**	ug/L	0.012	1	665	3129	1	Standard
	Mn	**55**	**69.719**	ug/L	1.052	1	556	1578732	0	Standard
>	**Ge**	**72**		ug/L			17301	17044	2	KED
	Ni	**60**	**0.844**	ug/L	0.075	8	7	558	6	KED
	Ni	**62**	**0.810**	ug/L	0.154	19	3	92	20	KED
	Cu	**63**	**1.709**	ug/L	0.055	3	33	3263	1	KED
	Cu	**65**	**1.764**	ug/L	0.089	5	22	1675	2	KED
	Zn	**66**	**2.679**	ug/L	0.096	3	28	717	1	KED
	Zn	**67**	**3.016**	ug/L	0.480	15	9	139	13	KED
	As	**75**	**0.768**	ug/L	0.066	8	5	110	5	KED
	Y	**89**		ug/L			196093	210862	3	Standard
	Kr	**83**		ug/L			62	62	16	Standard
>	**In-1**	**115**		ug/L			4601	4450	2	KED
	Cd	**111**	**0.028**	ug/L	0.016	57	2	6	37	KED
	Cd	**114**	**0.009**	ug/L	0.020	220	4	7	90	KED
>	**Tb**	**159**		ug/L			390590	386253	2	Standard
	Pb	**208**	**0.192**	ug/L	0.003	1	226	5935	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 07:56:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	41251	2	Standard
	Cl	**37**		ug/L			4432381	4608333	1	Standard
>	**Sc**	**45**		ug/L			373524	486734	0	Standard
	Cr	**52**	**0.475**	ug/L	0.013	2	9461	20130	1	Standard
	Cr	**53**	**1.226**	ug/L	0.033	2	665	3201	1	Standard
	Mn	**55**	**10.534**	ug/L	0.198	1	556	233569	1	Standard
>	**Ge**	**72**		ug/L			17301	17118	1	KED
	Ni	**60**	**0.316**	ug/L	0.040	12	7	214	11	KED
	Ni	**62**	**0.315**	ug/L	0.047	14	3	38	13	KED
	Cu	**63**	**0.390**	ug/L	0.013	3	33	774	3	KED
	Cu	**65**	**0.385**	ug/L	0.025	6	22	385	7	KED
	Zn	**66**	**1.076**	ug/L	0.053	4	28	306	5	KED
	Zn	**67**	**1.118**	ug/L	0.092	8	9	57	6	KED
	As	**75**	**0.663**	ug/L	0.029	4	5	96	4	KED
	Y	**89**		ug/L			196093	206396	2	Standard
	Kr	**83**		ug/L			62	50	7	Standard
>	**In-1**	**115**		ug/L			4601	4519	2	KED
	Cd	**111**	**0.017**	ug/L	0.015	89	2	5	47	KED
	Cd	**114**	**0.000**	ug/L	0.012	6549	4	4	90	KED
>	**Tb**	**159**		ug/L			390590	383975	0	Standard
	Pb	**208**	**0.098**	ug/L	0.003	2	226	3114	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:00:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	30152	2	Standard
	Cl	**37**		ug/L			4432381	4298704	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	386413	0	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.018	251	9461	9692	1	Standard
⎢	**Cr**	**53**	**-0.249**	ug/L	0.008	3	665	311	3	Standard
⎣	**Mn**	**55**	**-0.005**	ug/L	0.001	10	556	485	2	Standard
⎡>	**Ge**	**72**		ug/L			17301	16717	2	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.003	117	7	5	33	KED
⎢	**Ni**	**62**	**0.025**	ug/L	0.011	44	3	6	17	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.003	197	33	34	12	KED
⎢	**Cu**	**65**	**-0.007**	ug/L	0.006	85	22	15	34	KED
⎢	**Zn**	**66**	**-0.029**	ug/L	0.017	59	28	20	19	KED
⎢	**Zn**	**67**	**-0.068**	ug/L	0.022	33	9	6	17	KED
⎣	**As**	**75**	**-0.025**	ug/L	0.007	29	5	2	48	KED
	Y	**89**		ug/L			196093	199594	0	Standard
	Kr	**83**		ug/L			62	53	23	Standard
⎡>	**In-1**	**115**		ug/L			4601	4437	1	KED
⎢	**Cd**	**111**	**0.009**	ug/L	0.007	70	2	3	25	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.009	358	4	3	87	KED
⎡>	**Tb**	**159**		ug/L			390590	375752	1	Standard
⎣	**Pb**	**208**	**-0.005**	ug/L	0.000	9	226	81	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:04:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	28945	2	Standard
	Cl	**37**		ug/L			4432381	4737399	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	389209	2	Standard
|	**Cr**	**52**	**50.684**	ug/L	0.822	1	9461	675978	0	Standard
|	**Cr**	**53**	**50.782**	ug/L	0.894	1	665	78039	0	Standard
⌊	**Mn**	**55**	**54.410**	ug/L	1.053	1	556	962097	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	16904	0	KED
|	**Ni**	**60**	**52.218**	ug/L	0.130	0	7	33852	0	KED
|	**Ni**	**62**	**51.630**	ug/L	1.095	2	3	5565	1	KED
|	**Cu**	**63**	**53.077**	ug/L	0.303	0	33	99606	1	KED
|	**Cu**	**65**	**53.314**	ug/L	0.756	1	22	49606	2	KED
|	**Zn**	**66**	**50.651**	ug/L	0.279	0	28	12960	0	KED
|	**Zn**	**67**	**53.043**	ug/L	1.097	2	9	2275	2	KED
⌊	**As**	**75**	**51.846**	ug/L	1.092	2	5	7023	2	KED
	Y	**89**		ug/L			196093	197735	0	Standard
	Kr	**83**		ug/L			62	64	16	Standard
⌈>	**In-1**	**115**		ug/L			4601	4298	2	KED
|	**Cd**	**111**	**51.745**	ug/L	0.599	1	2	7373	1	KED
⌊	**Cd**	**114**	**52.937**	ug/L	1.106	2	4	18341	1	KED
⌈>	**Tb**	**159**		ug/L			390590	377887	0	Standard
⌊	**Pb**	**208**	**54.558**	ug/L	0.544	0	226	1585269	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:11:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	27925	1	Standard
	Cl	**37**		ug/L			4432381	4259216	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	388822	2	Standard
⎢	**Cr**	**52**	**-0.028**	ug/L	0.027	95	9461	9478	1	Standard
⎢	**Cr**	**53**	**-0.287**	ug/L	0.004	1	665	255	5	Standard
⎣	**Mn**	**55**	**-0.007**	ug/L	0.002	21	556	454	4	Standard
⎡>	**Ge**	**72**		ug/L			17301	16717	1	KED
⎢	**Ni**	**60**	**-0.005**	ug/L	0.002	40	7	4	24	KED
⎢	**Ni**	**62**	**-0.023**	ug/L	0.010	45	3	1	86	KED
⎢	**Cu**	**63**	**-0.009**	ug/L	0.005	53	33	15	55	KED
⎢	**Cu**	**65**	**-0.008**	ug/L	0.013	168	22	15	78	KED
⎢	**Zn**	**66**	**-0.072**	ug/L	0.015	20	28	9	40	KED
⎢	**Zn**	**67**	**-0.173**	ug/L	0.045	25	9	1	100	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.010	230	5	4	30	KED
	Y	**89**		ug/L			196093	199846	1	Standard
	Kr	**83**		ug/L			62	50	33	Standard
⎡>	**In-1**	**115**		ug/L			4601	4365	1	KED
⎢	**Cd**	**111**	**0.010**	ug/L	0.000	3	2	3	0	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.011	416	4	3	104	KED
⎡>	**Tb**	**159**		ug/L			390590	377430	0	Standard
⎣	**Pb**	**208**	**-0.005**	ug/L	0.001	15	226	86	23	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:16:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	42144	2	Standard
	Cl	**37**		ug/L			4432381	4566316	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	497565	0	Standard
|	**Cr**	**52**	**0.408**	ug/L	0.015	3	9461	19462	1	Standard
|	**Cr**	**53**	**1.104**	ug/L	0.034	3	665	3036	1	Standard
⌊	**Mn**	**55**	**28.076**	ug/L	0.184	0	556	635231	1	Standard
⌈>	**Ge**	**72**		ug/L			17301	16879	2	KED
|	**Ni**	**60**	**0.557**	ug/L	0.034	6	7	367	3	KED
|	**Ni**	**62**	**0.503**	ug/L	0.059	11	3	57	10	KED
|	**Cu**	**63**	**0.956**	ug/L	0.017	1	33	1822	0	KED
|	**Cu**	**65**	**0.971**	ug/L	0.048	4	22	923	3	KED
|	**Zn**	**66**	**1.707**	ug/L	0.069	4	28	462	3	KED
|	**Zn**	**67**	**2.122**	ug/L	0.303	14	9	99	11	KED
⌊	**As**	**75**	**0.896**	ug/L	0.083	9	5	126	7	KED
	Y	**89**		ug/L			196093	212342	2	Standard
	Kr	**83**		ug/L			62	45	13	Standard
⌈>	**In-1**	**115**		ug/L			4601	4484	2	KED
|	**Cd**	**111**	**0.035**	ug/L	0.017	49	2	7	33	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.017	174	4	8	72	KED
⌈>	**Tb**	**159**		ug/L			390590	387096	1	Standard
⌊	**Pb**	**208**	**0.205**	ug/L	0.002	1	226	6333	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-09
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:20:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	40660	0	Standard
	Cl	**37**		ug/L			4432381	4561950	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	497620	1	Standard
|	**Cr**	**52**	**0.720**	ug/L	0.018	2	9461	24700	0	Standard
|	**Cr**	**53**	**1.535**	ug/L	0.023	1	665	3876	1	Standard
⌊	**Mn**	**55**	**100.442**	ug/L	1.811	1	556	2270499	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	16792	1	KED
|	**Ni**	**60**	**0.875**	ug/L	0.097	11	7	570	9	KED
|	**Ni**	**62**	**0.890**	ug/L	0.060	6	3	99	8	KED
|	**Cu**	**63**	**1.678**	ug/L	0.049	2	33	3160	4	KED
|	**Cu**	**65**	**1.686**	ug/L	0.083	4	22	1578	3	KED
|	**Zn**	**66**	**4.896**	ug/L	0.164	3	28	1269	4	KED
|	**Zn**	**67**	**5.423**	ug/L	0.077	1	9	239	1	KED
⌊	**As**	**75**	**1.328**	ug/L	0.078	5	5	183	4	KED
	Y	**89**		ug/L			196093	211969	1	Standard
	Kr	**83**		ug/L			62	55	20	Standard
⌈>	**In-1**	**115**		ug/L			4601	4424	2	KED
|	**Cd**	**111**	**0.022**	ug/L	0.017	75	2	5	44	KED
⌊	**Cd**	**114**	**0.023**	ug/L	0.001	4	4	13	0	KED
⌈>	**Tb**	**159**		ug/L			390590	384856	0	Standard
⌊	**Pb**	**208**	**0.689**	ug/L	0.010	1	226	20620	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-11
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:25:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	39777	2	Standard
	Cl	**37**		ug/L			4432381	4558718	0	Standard
>	**Sc**	**45**		ug/L			373524	489178	0	Standard
	Cr	**52**	**0.161**	ug/L	0.016	10	9461	15059	1	Standard
	Cr	**53**	**0.985**	ug/L	0.017	1	665	2756	1	Standard
	Mn	**55**	**151.404**	ug/L	0.675	0	556	3364525	0	Standard
>	**Ge**	**72**		ug/L			17301	17322	0	KED
	Ni	**60**	**0.543**	ug/L	0.030	5	7	368	4	KED
	Ni	**62**	**0.610**	ug/L	0.098	16	3	71	15	KED
	Cu	**63**	**0.905**	ug/L	0.020	2	33	1772	2	KED
	Cu	**65**	**0.915**	ug/L	0.006	0	22	895	0	KED
	Zn	**66**	**2.123**	ug/L	0.066	3	28	584	2	KED
	Zn	**67**	**2.885**	ug/L	0.221	7	9	135	7	KED
	As	**75**	**0.532**	ug/L	0.039	7	5	79	7	KED
	Y	**89**		ug/L			196093	212812	1	Standard
	Kr	**83**		ug/L			62	44	15	Standard
>	**In-1**	**115**		ug/L			4601	4556	3	KED
	Cd	**111**	**0.002**	ug/L	0.007	288	2	2	33	KED
	Cd	**114**	**-0.001**	ug/L	0.013	926	4	4	104	KED
>	**Tb**	**159**		ug/L			390590	386801	0	Standard
	Pb	**208**	**0.135**	ug/L	0.002	1	226	4254	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-13
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:29:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	42709	3	Standard
	Cl	**37**		ug/L			4432381	4811649	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	435618	1	Standard
|	**Cr**	**52**	**0.208**	ug/L	0.012	5	9461	14091	0	Standard
|	**Cr**	**53**	**1.169**	ug/L	0.040	3	665	2769	1	Standard
⌊	**Mn**	**55**	**6.816**	ug/L	0.094	1	556	135502	1	Standard
⌈>	**Ge**	**72**		ug/L			17301	17072	1	KED
|	**Ni**	**60**	**0.699**	ug/L	0.026	3	7	464	2	KED
|	**Ni**	**62**	**0.859**	ug/L	0.123	14	3	97	12	KED
|	**Cu**	**63**	**2.292**	ug/L	0.088	3	33	4375	3	KED
|	**Cu**	**65**	**2.301**	ug/L	0.063	2	22	2184	4	KED
|	**Zn**	**66**	**8.061**	ug/L	0.685	8	28	2104	6	KED
|	**Zn**	**67**	**8.689**	ug/L	0.634	7	9	384	6	KED
⌊	**As**	**75**	**0.336**	ug/L	0.014	4	5	51	4	KED
	Y	**89**		ug/L			196093	202856	1	Standard
	Kr	**83**		ug/L			62	66	14	Standard
⌈>	**In-1**	**115**		ug/L			4601	4420	4	KED
|	**Cd**	**111**	**0.048**	ug/L	0.017	36	2	9	26	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.010	32	4	15	20	KED
⌈>	**Tb**	**159**		ug/L			390590	379130	1	Standard
⌊	**Pb**	**208**	**0.196**	ug/L	0.001	0	226	5933	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-15
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:33:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	41461	1	Standard
	Cl	**37**		ug/L			4432381	4685543	0	Standard
>	**Sc**	**45**		ug/L			373524	490158	1	Standard
	Cr	**52**	**0.396**	ug/L	0.033	8	9461	18960	1	Standard
	Cr	**53**	**1.173**	ug/L	0.049	4	665	3124	3	Standard
	Mn	**55**	**28.200**	ug/L	0.269	0	556	628438	1	Standard
>	**Ge**	**72**		ug/L			17301	17209	0	KED
	Ni	**60**	**0.597**	ug/L	0.025	4	7	401	3	KED
	Ni	**62**	**0.550**	ug/L	0.046	8	3	64	7	KED
	Cu	**63**	**1.154**	ug/L	0.019	1	33	2237	1	KED
	Cu	**65**	**1.114**	ug/L	0.096	8	22	1076	7	KED
	Zn	**66**	**1.976**	ug/L	0.090	4	28	542	5	KED
	Zn	**67**	**2.775**	ug/L	0.415	14	9	130	13	KED
	As	**75**	**0.830**	ug/L	0.015	1	5	119	0	KED
	Y	**89**		ug/L			196093	210237	1	Standard
	Kr	**83**		ug/L			62	59	20	Standard
>	**In-1**	**115**		ug/L			4601	4544	2	KED
	Cd	**111**	**0.021**	ug/L	0.028	133	2	5	76	KED
	Cd	**114**	**-0.004**	ug/L	0.000	9	4	3	0	KED
>	**Tb**	**159**		ug/L			390590	386291	0	Standard
	Pb	**208**	**0.218**	ug/L	0.002	0	226	6706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0441-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:38:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	37654	1	Standard
	Cl	**37**		ug/L			4432381	13517066	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	449216	1	Standard
|	**Cr**	**52**	**124.057**	ug/L	1.799	1	9461	1893374	0	Standard
|	**Cr**	**53**	**136.482**	ug/L	1.585	1	665	240761	0	Standard
⌊	**Mn**	**55**	**0.214**	ug/L	0.004	1	556	5036	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	12972	1	KED
|	**Ni**	**60**	**6.650**	ug/L	0.179	2	7	3312	1	KED
|	**Ni**	**62**	**6.322**	ug/L	0.306	4	3	525	6	KED
|	**Cu**	**63**	**0.838**	ug/L	0.020	2	33	1231	1	KED
|	**Cu**	**65**	**0.853**	ug/L	0.057	6	22	626	7	KED
|	**Zn**	**66**	**0.335**	ug/L	0.054	16	28	86	10	KED
|	**Zn**	**67**	**1.196**	ug/L	0.275	22	9	46	19	KED
⌊	**As**	**75**	**53.331**	ug/L	0.641	1	5	5542	0	KED
	Y	**89**		ug/L			196093	182006	0	Standard
	Kr	**83**		ug/L			62	195	9	Standard
⌈>	**In-1**	**115**		ug/L			4601	3321	2	KED
|	**Cd**	**111**	**0.030**	ug/L	0.028	95	2	5	60	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.007	107	4	1	108	KED
⌈>	**Tb**	**159**		ug/L			390590	323737	0	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.002	20	226	389	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0023-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:42:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	37428	1	Standard
	Cl	**37**		ug/L			4432381	13641075	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	448848	1	Standard
|	**Cr**	**52**	**125.161**	ug/L	1.010	0	9461	1908745	0	Standard
|	**Cr**	**53**	**135.609**	ug/L	1.452	1	665	239054	1	Standard
⌊	**Mn**	**55**	**0.241**	ug/L	0.003	1	556	5580	0	Standard
⌈>	**Ge**	**72**		ug/L			17301	13097	0	KED
|	**Ni**	**60**	**6.641**	ug/L	0.238	3	7	3340	3	KED
|	**Ni**	**62**	**7.224**	ug/L	0.724	10	3	605	9	KED
|	**Cu**	**63**	**0.914**	ug/L	0.061	6	33	1353	5	KED
|	**Cu**	**65**	**0.863**	ug/L	0.034	3	22	639	4	KED
|	**Zn**	**66**	**0.375**	ug/L	0.062	16	28	95	13	KED
|	**Zn**	**67**	**1.221**	ug/L	0.110	9	9	47	8	KED
⌊	**As**	**75**	**53.924**	ug/L	0.683	1	5	5658	0	KED
	Y	**89**		ug/L			196093	183109	2	Standard
	Kr	**83**		ug/L			62	236	7	Standard
⌈>	**In-1**	**115**		ug/L			4601	3494	0	KED
|	**Cd**	**111**	**0.027**	ug/L	0.005	17	2	5	10	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.007	101	4	5	33	KED
⌈>	**Tb**	**159**		ug/L			390590	323438	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.002	25	226	368	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0023-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:47:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	38579	1	Standard
	Cl	**37**		ug/L			4432381	13164645	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	453223	0	Standard
⎢	**Cr**	**52**	**138.476**	ug/L	2.354	1	9461	2131384	2	Standard
⎢	**Cr**	**53**	**152.344**	ug/L	0.796	0	665	271079	0	Standard
⎣	**Mn**	**55**	**21.471**	ug/L	0.354	1	556	442679	2	Standard
⎡>	**Ge**	**72**		ug/L			17301	13312	1	KED
⎢	**Ni**	**60**	**32.491**	ug/L	0.888	2	7	16583	0	KED
⎢	**Ni**	**62**	**32.774**	ug/L	1.036	3	3	2782	1	KED
⎢	**Cu**	**63**	**25.899**	ug/L	0.278	1	33	38280	0	KED
⎢	**Cu**	**65**	**25.481**	ug/L	0.588	2	22	18673	0	KED
⎢	**Zn**	**66**	**64.022**	ug/L	1.209	1	28	12892	1	KED
⎢	**Zn**	**67**	**59.590**	ug/L	2.807	4	9	2010	2	KED
⎣	**As**	**75**	**75.891**	ug/L	2.319	3	5	8089	1	KED
	Y	**89**		ug/L			196093	186262	1	Standard
	Kr	**83**		ug/L			62	604	3	Standard
⎡>	**In-1**	**115**		ug/L			4601	3452	0	KED
⎢	**Cd**	**111**	**21.046**	ug/L	0.517	2	2	2410	2	KED
⎣	**Cd**	**114**	**21.489**	ug/L	0.899	4	4	5982	3	KED
⎡>	**Tb**	**159**		ug/L			390590	329509	0	Standard
⎣	**Pb**	**208**	**23.489**	ug/L	0.101	0	226	595274	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0023-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:53:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	39635	0	Standard
	Cl	**37**		ug/L			4432381	13583560	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	451498	3	Standard
|	**Cr**	**52**	**144.407**	ug/L	3.290	2	9461	2212522	1	Standard
|	**Cr**	**53**	**158.763**	ug/L	5.335	3	665	281224	2	Standard
⌊	**Mn**	**55**	**21.708**	ug/L	0.687	3	556	445509	1	Standard
⌈>	**Ge**	**72**		ug/L			17301	12835	0	KED
|	**Ni**	**60**	**33.875**	ug/L	0.268	0	7	16677	1	KED
|	**Ni**	**62**	**34.564**	ug/L	0.725	2	3	2830	2	KED
|	**Cu**	**63**	**26.799**	ug/L	0.438	1	33	38195	1	KED
|	**Cu**	**65**	**26.421**	ug/L	0.593	2	22	18671	1	KED
|	**Zn**	**66**	**64.857**	ug/L	0.323	0	28	12594	0	KED
|	**Zn**	**67**	**62.673**	ug/L	0.239	0	9	2040	0	KED
⌊	**As**	**75**	**79.447**	ug/L	0.405	0	5	8168	1	KED
	Y	**89**		ug/L			196093	188569	1	Standard
	Kr	**83**		ug/L			62	552	5	Standard
⌈>	**In-1**	**115**		ug/L			4601	3556	1	KED
|	**Cd**	**111**	**20.835**	ug/L	0.484	2	2	2457	1	KED
⌊	**Cd**	**114**	**20.902**	ug/L	0.359	1	4	5995	1	KED
⌈>	**Tb**	**159**		ug/L			390590	328715	2	Standard
⌊	**Pb**	**208**	**23.605**	ug/L	0.502	2	226	596601	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 08:57:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	31576	1	Standard
	Cl	**37**		ug/L			4432381	4525578	0	Standard
⎡>	**Sc**	**45**		ug/L			373524	424438	1	Standard
⎢	**Cr**	**52**	**-0.011**	ug/L	0.002	20	9461	10599	0	Standard
⎢	**Cr**	**53**	**0.484**	ug/L	0.030	6	665	1560	3	Standard
⎣	**Mn**	**55**	**0.016**	ug/L	0.002	11	556	933	2	Standard
⎡>	**Ge**	**72**		ug/L			17301	17570	2	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.011	1814	7	8	87	KED
⎢	**Ni**	**62**	**0.171**	ug/L	0.081	47	3	22	36	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.005	58	33	52	21	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.008	118	22	17	44	KED
⎢	**Zn**	**66**	**-0.044**	ug/L	0.038	86	28	17	58	KED
⎢	**Zn**	**67**	**-0.133**	ug/L	0.041	30	9	3	50	KED
⎣	**As**	**75**	**0.005**	ug/L	0.006	119	5	6	15	KED
	Y	**89**		ug/L			196093	216190	1	Standard
	Kr	**83**		ug/L			62	67	9	Standard
⎡>	**In-1**	**115**		ug/L			4601	4468	1	KED
⎢	**Cd**	**111**	**0.009**	ug/L	0.013	142	2	3	50	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.011	238	4	3	131	KED
⎡>	**Tb**	**159**		ug/L			390590	375935	1	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.001	10	226	398	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:01:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	29837	1	Standard
	Cl	**37**		ug/L			4432381	4772233	0	Standard
⌈>	**Sc**	**45**		ug/L			373524	418203	2	Standard
|	**Cr**	**52**	**51.146**	ug/L	1.125	2	9461	732879	1	Standard
|	**Cr**	**53**	**51.286**	ug/L	0.721	1	665	84689	1	Standard
⌊	**Mn**	**55**	**55.222**	ug/L	0.106	0	556	1049484	1	Standard
⌈>	**Ge**	**72**		ug/L			17301	17825	1	KED
|	**Ni**	**60**	**54.118**	ug/L	0.880	1	7	36991	1	KED
|	**Ni**	**62**	**53.563**	ug/L	0.481	0	3	6088	1	KED
|	**Cu**	**63**	**53.725**	ug/L	0.534	0	33	106299	0	KED
|	**Cu**	**65**	**53.025**	ug/L	0.407	0	22	52018	0	KED
|	**Zn**	**66**	**52.607**	ug/L	0.931	1	28	14192	1	KED
|	**Zn**	**67**	**51.589**	ug/L	1.062	2	9	2334	3	KED
⌊	**As**	**75**	**50.565**	ug/L	0.425	0	5	7221	0	KED
	Y	**89**		ug/L			196093	214136	1	Standard
	Kr	**83**		ug/L			62	86	17	Standard
⌈>	**In-1**	**115**		ug/L			4601	4476	3	KED
|	**Cd**	**111**	**52.460**	ug/L	1.842	3	2	7780	1	KED
⌊	**Cd**	**114**	**53.157**	ug/L	1.351	2	4	19177	2	KED
⌈>	**Tb**	**159**		ug/L			390590	386333	2	Standard
⌊	**Pb**	**208**	**53.982**	ug/L	0.802	1	226	1603382	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:08:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	29034	2	Standard
	Cl	**37**		ug/L			4432381	4399414	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	394017	1	Standard
|	**Cr**	**52**	**-0.036**	ug/L	0.003	8	9461	9496	0	Standard
|	**Cr**	**53**	**-0.022**	ug/L	0.015	69	665	668	3	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	78	556	638	5	Standard
⌈>	**Ge**	**72**		ug/L			17301	16900	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.002	35	7	4	24	KED
|	**Ni**	**62**	**0.089**	ug/L	0.053	58	3	13	42	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.002	58	33	27	10	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.005	56	22	13	37	KED
|	**Zn**	**66**	**-0.062**	ug/L	0.011	18	28	12	24	KED
|	**Zn**	**67**	**-0.143**	ug/L	0.026	18	9	3	34	KED
⌊	**As**	**75**	**0.013**	ug/L	0.000	1	5	7	0	KED
	Y	**89**		ug/L			196093	205003	2	Standard
	Kr	**83**		ug/L			62	69	38	Standard
⌈>	**In-1**	**115**		ug/L			4601	4334	3	KED
|	**Cd**	**111**	**0.004**	ug/L	0.021	546	2	2	100	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.011	425	4	3	104	KED
⌈>	**Tb**	**159**		ug/L			390590	368069	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	34	226	273	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:13:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	35122	2	Standard
	Cl	**37**		ug/L			4432381	4383139	1	Standard
⌈>	**Sc**	**45**		ug/L			373524	473651	0	Standard
|	**Cr**	**52**	**-0.020**	ug/L	0.013	63	9461	11675	1	Standard
|	**Cr**	**53**	**-0.105**	ug/L	0.011	10	665	648	2	Standard
⌊	**Mn**	**55**	**0.035**	ug/L	0.004	10	556	1458	5	Standard
⌈>	**Ge**	**72**		ug/L			17301	17962	2	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.008	2423	7	7	75	KED
|	**Ni**	**62**	**0.049**	ug/L	0.030	61	3	9	34	KED
|	**Cu**	**63**	**0.004**	ug/L	0.004	93	33	43	17	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	162	22	25	8	KED
|	**Zn**	**66**	**0.010**	ug/L	0.013	125	28	32	10	KED
|	**Zn**	**67**	**-0.133**	ug/L	0.074	55	9	3	86	KED
⌊	**As**	**75**	**-0.013**	ug/L	0.009	70	5	3	33	KED
	Y	**89**		ug/L			196093	239456	2	Standard
	Kr	**83**		ug/L			62	53	16	Standard
⌈>	**In-1**	**115**		ug/L			4601	4777	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.019	205	2	4	74	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	132	4	7	44	KED
⌈>	**Tb**	**159**		ug/L			390590	413458	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	157	226	248	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:17:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	34976	2	Standard
	Cl	**37**		ug/L			4432381	4253542	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	456109	1	Standard
⎢	**Cr**	**52**	**-0.004**	ug/L	0.013	313	9461	11491	1	Standard
⎢	**Cr**	**53**	**-0.145**	ug/L	0.011	7	665	553	3	Standard
⎣	**Mn**	**55**	**0.037**	ug/L	0.003	7	556	1438	2	Standard
⎡>	**Ge**	**72**		ug/L			17301	17987	2	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.006	503	7	6	62	KED
⎢	**Ni**	**62**	**0.043**	ug/L	0.011	25	3	8	12	KED
⎢	**Cu**	**63**	**0.006**	ug/L	0.006	92	33	46	24	KED
⎢	**Cu**	**65**	**-0.001**	ug/L	0.011	754	22	22	47	KED
⎢	**Zn**	**66**	**0.008**	ug/L	0.037	472	28	31	30	KED
⎢	**Zn**	**67**	**-0.078**	ug/L	0.049	62	9	6	34	KED
⎣	**As**	**75**	**-0.016**	ug/L	0.009	57	5	3	39	KED
	Y	**89**		ug/L			196093	226314	2	Standard
	Kr	**83**		ug/L			62	56	50	Standard
⎡>	**In-1**	**115**		ug/L			4601	4855	1	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.015	473	2	3	75	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.007	274	4	6	46	KED
⎡>	**Tb**	**159**		ug/L			390590	408772	0	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	109	226	215	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:22:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	34839	2	Standard
	Cl	**37**		ug/L			4432381	4278278	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	460762	1	Standard
⎢	**Cr**	**52**	**-0.022**	ug/L	0.005	22	9461	11326	1	Standard
⎢	**Cr**	**53**	**-0.179**	ug/L	0.012	6	665	497	4	Standard
⎣	**Mn**	**55**	**0.032**	ug/L	0.002	5	556	1363	3	Standard
⎡>	**Ge**	**72**		ug/L			17301	18107	1	KED
⎢	**Ni**	**60**	**-0.004**	ug/L	0.003	77	7	5	43	KED
⎢	**Ni**	**62**	**0.031**	ug/L	0.032	102	3	7	50	KED
⎢	**Cu**	**63**	**0.007**	ug/L	0.003	46	33	50	15	KED
⎢	**Cu**	**65**	**0.001**	ug/L	0.003	380	22	24	13	KED
⎢	**Zn**	**66**	**0.012**	ug/L	0.023	203	28	33	18	KED
⎢	**Zn**	**67**	**-0.038**	ug/L	0.093	242	9	8	53	KED
⎣	**As**	**75**	**-0.013**	ug/L	0.010	81	5	3	36	KED
	Y	**89**		ug/L			196093	235429	1	Standard
	Kr	**83**		ug/L			62	55	18	Standard
⎡>	**In-1**	**115**		ug/L			4601	5040	1	KED
⎢	**Cd**	**111**	**0.012**	ug/L	0.021	174	2	4	72	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.003	54	4	3	40	KED
⎡>	**Tb**	**159**		ug/L			390590	413744	1	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	24	226	200	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:26:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	30045	0	Standard
	Cl	**37**		ug/L			4432381	4092457	0	Standard
⎡>	**Sc**	**45**		ug/L			373524	375779	0	Standard
⎢	**Cr**	**52**	**-0.062**	ug/L	0.007	11	9461	8726	1	Standard
⎢	**Cr**	**53**	**-0.195**	ug/L	0.013	6	665	382	4	Standard
⎣	**Mn**	**55**	**-0.013**	ug/L	0.002	17	556	334	12	Standard
⎡>	**Ge**	**72**		ug/L			17301	16942	1	KED
⎢	**Ni**	**60**	**-0.006**	ug/L	0.003	51	7	3	50	KED
⎢	**Ni**	**62**	**0.072**	ug/L	0.037	51	3	11	33	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	92	33	26	22	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.007	72	22	13	43	KED
⎢	**Zn**	**66**	**-0.067**	ug/L	0.019	28	28	10	44	KED
⎢	**Zn**	**67**	**-0.100**	ug/L	0.067	67	9	5	57	KED
⎣	**As**	**75**	**-0.004**	ug/L	0.012	324	5	4	31	KED
	Y	**89**		ug/L			196093	194250	2	Standard
	Kr	**83**		ug/L			62	49	21	Standard
⎡>	**In-1**	**115**		ug/L			4601	4311	2	KED
⎢	**Cd**	**111**	**0.014**	ug/L	0.010	67	2	4	32	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.003	77	4	3	39	KED
⎡>	**Tb**	**159**		ug/L			390590	367290	1	Standard
⎣	**Pb**	**208**	**-0.006**	ug/L	0.000	7	226	43	32	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:31:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	29735	0	Standard
	Cl	**37**		ug/L			4432381	4076972	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	371787	0	Standard
⎢	**Cr**	**52**	**-0.055**	ug/L	0.013	24	9461	8729	1	Standard
⎢	**Cr**	**53**	**-0.195**	ug/L	0.011	5	665	378	5	Standard
⎣	**Mn**	**55**	**-0.013**	ug/L	0.001	7	556	333	4	Standard
⎡>	**Ge**	**72**		ug/L			17301	17268	0	KED
⎢	**Ni**	**60**	**-0.007**	ug/L	0.002	24	7	3	34	KED
⎢	**Ni**	**62**	**0.052**	ug/L	0.017	33	3	9	20	KED
⎢	**Cu**	**63**	**-0.007**	ug/L	0.002	28	33	19	20	KED
⎢	**Cu**	**65**	**-0.008**	ug/L	0.000	0	22	15	0	KED
⎢	**Zn**	**66**	**-0.056**	ug/L	0.004	7	28	13	7	KED
⎢	**Zn**	**67**	**-0.160**	ug/L	0.067	41	9	2	114	KED
⎣	**As**	**75**	**0.000**	ug/L	0.017	27550	5	5	43	KED
	Y	**89**		ug/L			196093	193900	3	Standard
	Kr	**83**		ug/L			62	69	18	Standard
⎡>	**In-1**	**115**		ug/L			4601	4352	0	KED
⎢	**Cd**	**111**	**0.008**	ug/L	0.004	51	2	3	15	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.009	332	4	3	91	KED
⎡>	**Tb**	**159**		ug/L			390590	364781	1	Standard
⎣	**Pb**	**208**	**-0.006**	ug/L	0.001	13	226	46	48	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 09:35:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010322.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27647	30222	0	Standard
	Cl	**37**		ug/L			4432381	4065280	1	Standard
⎡>	**Sc**	**45**		ug/L			373524	382346	1	Standard
⎢	**Cr**	**52**	**-0.073**	ug/L	0.024	33	9461	8746	3	Standard
⎢	**Cr**	**53**	**-0.216**	ug/L	0.007	3	665	357	2	Standard
⎣	**Mn**	**55**	**-0.016**	ug/L	0.001	3	556	299	2	Standard
⎡>	**Ge**	**72**		ug/L			17301	16874	3	KED
⎢	**Ni**	**60**	**-0.005**	ug/L	0.001	32	7	4	24	KED
⎢	**Ni**	**62**	**0.018**	ug/L	0.035	192	3	5	66	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.002	53	33	25	18	KED
⎢	**Cu**	**65**	**-0.012**	ug/L	0.006	55	22	11	50	KED
⎢	**Zn**	**66**	**-0.069**	ug/L	0.016	23	28	10	39	KED
⎢	**Zn**	**67**	**-0.187**	ug/L	0.053	28	9	1	173	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.003	62	5	4	10	KED
	Y	**89**		ug/L			196093	193438	1	Standard
	Kr	**83**		ug/L			62	57	18	Standard
⎡>	**In-1**	**115**		ug/L			4601	4363	1	KED
⎢	**Cd**	**111**	**0.010**	ug/L	0.017	178	2	3	66	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.008	186	4	3	97	KED
⎡>	**Tb**	**159**		ug/L			390590	369339	1	Standard
⎣	**Pb**	**208**	**-0.006**	ug/L	0.000	2	226	44	8	Standard

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	265	10	222.4	20	213.25	50	212.82	100	214.32

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	187.965	50.1	1.0000		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** SLAΦΦ97 **Cal:** GAΦΦΦ24

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ293		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ294		
		-CAL6	LΦ153		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ293		
		-CCV1	LΦ294		
		-CCB1	LΦ293		
		-CRL1	LΦ149		
		-IFA1	K11871		Cr53?
		-IFB1	K11683		
		-HCV1	LΦ232		
		-HCV2	LΦ233		
		-IBL2	—		
		-CCV2			
		-CCB2			
		BKLΦ6Φ8-BLK1	SWN	20	
		-BS1			
		BKLΦΦ8Φ-BLK2			Pb only
		-BS2			
		22LΦ454-13	REN		Cu only

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ454-14	REN	5	Cu only
		↓ -Φ2	↓	10	↓
		22LΦ475-Φ1	↓	↓	Zn only
		22LΦ476-Φ1	↓	↓	↓
		SEQ-IBL3			
		↓ -CCV3			
		↓ -CCB3			
		BLAΦ187-BLK1	REN		
		↓ -BS1	↓		
197→192		BLAΦ197-BLK1	↓		
↓		↓ -BS1	↓		
		23AΦΦ66-ΦIRE1	↓	5	Mn only
		23AΦ137-Φ1	↓	↓	
		23AΦ116-Φ1	↓	2	
		22LΦ199-43	SWN	20	Sc↑ - Not Needed
		↓ -44	↓	↓	↓ ↓
		SEQ-IBL4			
		↓ -CCV4			
		↓ -CCB4			
		BLAΦ157-BLK1	REN		(Mn = ½RL) No Mn
		↓ -BS1	↓		↓
		23AΦΦΦ4-Φ1	↓	2	
		↓ -Φ2	↓	↓	
		↓ -Φ3	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦΦΦ4-Φ4	REN	2	
		22LΦ199-45	SWN	20	Scr - Not Needed
		-46	↓	↓	
		-47	↓	↓	
		SEQ-IBL5			
		-CCV5			
		-CCB5			
	✓	BLAΦ157-BLK1	REN		Wrong sample run
		BLAΦ194-BLK1	↓		
		-BS1	↓		
		22LΦ329-Φ8	SWN	20	
		-Φ9	↓	↓	Scr - Not Needed
		-1Φ	↓	↓	↓ ↓
		-11	↓	↓	↓ ↓
		-12	↓	↓	
		-13	↓	↓	Scr - Not Needed
		-14	↓	↓	↓ ↓
		SEQ-CCV6			
		-CCB6			
	✓	-CAL1			
		-CCV7			
		-CCB7			
		22LΦ329-Φ7	SWN	20	Scr No Cr
		BKLΦ6Φ8-DUP1	↓	↓	↓ ↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-MS1	SWN	20	ScT No Cr
		↓ -MSD1	↓	↓	↓
		↓ -PS1	↓	↓	60 mL K7409 ↓
		22HΦ525-Φ1	↓	↓	Not Needed
		↓ -Φ2	↓	↓	↓
		↓ -Φ3	↓	↓	Tb sl. noisy - %R + Analytes OK
		↓ -Φ4	↓	↓	↓
		↓ -Φ5	↓	↓	↓
		SEQ-CCV8	↓	↓	↓
		↓ -CCB8	↓	↓	↓
		BKLΦΦΦ6-SRL2	SWN	250	Zn only
		22IΦΦ52-25	↓	50	↓
		BKLΦΦΦ6-DUP2	↓	↓	↓
		↓ -MS2	↓	↓	ScT - Not Needed / Zn %R↑
		↓ -MSD2	↓	↓	↓
		↓ -PS2	↓	↓	60 mL K7409 ↓
		22HΦ525-1Φ	↓	20	ScT - Not Needed
		↓ -11	↓	↓	↓
		↓ -12	↓	↓	↓
		↓ -13	↓	↓	↓
		SEQ-CCV9	↓	↓	↓
		↓ -CCB9	↓	↓	↓
		BKLΦΦ35-SRL2	SWN	250	Zn only
		22IΦ188-Φ2	↓	50	↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦΦ35-DUP2	SWN	50	Zn only
		-MS2	↓	↓	Zn %R↑ ↓
		-MSD2	↓	↓	↓
		-PS2	↓	↓	60uL K7409 ↓
		22HΦ525-14	↓	20	Sc↑ - Not Needed
		-15 19	↓	↓	↓ ↓
		-2Φ	↓	↓	↓ ↓
		-21	↓	↓	↓ ↓
		SEQ-CCVA			
		↓ -CCBA			
		22LΦ516-Φ1	REN	10	Zn↑/Sc,Tb noisy — Cd,Cu,Ni only
		SEQ-IBL6			
		BKLΦΦ8Φ-SRL2	SWN	250	Pb,Zn only
		22IΦ188-2Φ	↓	50	↓
		BKLΦΦ8Φ-DUP2	↓	↓	↓
		-MS2	↓	↓	↓
		-MSD2	↓	↓	Zn %R↑ ↓
		-PS2	↓	↓	60uL K7409 ↓
		-SRM2	↓	100	Pb only
		SEQ-IBL7			
		-CCVB			
		↓ -CCBB			
		BKLΦ683-SRL2	SWN	250	Zn only
		22JΦΦ97-31	↓	50	↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ683-DUP2	SWN	50	Zn only
		-MS2	↓	↓	↓
		-MSD2	↓	↓	↓
		-PS2	↓	↓	60ul K7409 ↓
		22HΦ525-22	↓	20	Sc↑ - Not Needed
		-23	↓	↓	↓ ↓
		-24	↓	↓	↓ ↓
		-31	↓	↓	↓ ↓
		SEQ-CCVC			Ni62sl. noisy - Not Needed
		-CCBC	↓	↓	↓
	✓	-CAL1	↓	↓	↓
		-CCVD	↓	↓	↓
		-CCBD	↓	↓	↓
		22HΦ525-32	SWN	20	Sc↑ - Not Needed
		-33	↓	↓	↓ ↓ Pb noisy — No Pb
		-34	↓	↓	↓ ↓
		-35	↓	↓	↓ ↓
		-36	↓	↓	↓ ↓
		-38	↓	↓	↓ ↓
		-39	↓	↓	↓ ↓
		22HΦ529-Φ2	↓	↓	↓ ↓
		-12	↓	↓	↓ ↓
		-13	↓	↓	↓ ↓
		SEQ-CCVE			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			
		22HΦ529-14	SWN	20	Sc↑ - Not Needed
		-15			
		-16			Cu↑ Zn almost↑ No Cu, Zn
		-17			
		-18			
		-22			
		-23			
		-24			
		-25			
		-26			
		SEQ-CCVF			
		↓ -CCBF			
		22HΦ529-3Φ	SWN	20	Sc↑ - Not Needed / Cu, Zn↑ No Cu, Zn
		-31			
		-32			
		-33			Sc↑ - Not Needed
		22IΦΦ52-Φ1			
		-Φ2			
		-Φ3			
		-Φ5			
		-Φ6			
		-11			
		SEQ-CCVG			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ - CCBG			
		22LΦ428-ΦIRE1	REN		Co only
		23AΦΦΦ9-Φ4	↓		
		-Φ6	↓		
		-Φ8	↓		
		-1Φ	↓		
		-12	↓		
		-Φ2	↓		
		BLAΦ194-DUP1	↓		
		-MS1	↓		
		22IΦΦS2-13	SWN	20	Sc↑ - Not Needed
		SEQ-CCVH			
		-CCBH			
	✓	-CAL1			
		-CCVI			
		-CCBI			
		23AΦΦΦ9-Φ1	REN		
		-Φ3	↓		
		-Φ5	↓		
		-Φ7	↓		
		-Φ9	↓		
		-11	↓		
		22LΦ612-Φ1	↓		
		BKL MS 1/9/23			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLAΦ157-DUP1	REN		
		↓ -MS1	↓		Mn STL
		SEQ-IBL8			(Sc, Tb sli. noisy)
		↓ -CCVJ			
		↓ -CCBJ			
		23AΦΦ1Φ-Φ1	REN		
		23AΦΦ13-Φ1		2	
		23AΦΦ16-Φ1		5	Zn ND No Zn
		↓ -Φ2			Zn↑ No Zn
		22LΦ522-Φ1		2	
		22LΦ536-Φ2			Zn↑ No Zn
		↓ -Φ1			↓ ↓
	✓	BLAΦ187-DUP1			Wrong QC Source
	✓	↓ -MS1	↓		↓
		SEQ-IBL9			(Cr53↑)
		↓ -CCVK			
		↓ -CCBK			
		22LΦ523-Φ1	REN		
		22LΦ54Φ-Φ1			
		22LΦ542-Φ1			
		22LΦ543-Φ1			
		↓ -Φ2			
		↓ -Φ3		2	
		22LΦ545-Φ1	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ546-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ547-Φ1	↓		Zn↑ No Zn
		SEQ-CCVL			
		↓ -CCBL			
		22LΦ549-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ55Φ-Φ1	↓	2	
		22LΦ551-Φ1	↓		
		22LΦ552-Φ1	↓	2	
		22LΦ553-Φ1	↓		
		22LΦ554-Φ1	↓		
		↓ -Φ2	↓		
		22LΦ555-Φ1	↓		
		22LΦ556-Φ1	↓		
		SEQ-CCVM			
		↓ -CCBM			Tl sl. noisy-ICR ΦAnalytes OK
		Rinse/DI			
		MB 1/9/23			

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 12:54:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4860
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7877.3	7877.305	91.424	1.2	Standard
	In	114.9	64643.5	64643.462	238.075	0.4	Standard
	U	238.1	47383.8	47383.787	156.287	0.3	Standard
⌈	CeO	155.9	932.5	0.015	0.000	2.9	Standard
| >	Ce	139.9	62250.8	62250.803	118.292	0.2	Standard
⌊	Ce++	70.0	1513.6	0.024	0.000	2.0	Standard
	Bkgd	220.0	0.3	0.267	0.224	83.9	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 12:54:12 PM
End Time: 1/9/2023 1:04:05 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7877.30
Obtained Intensity (In 115): 64643.46
Obtained Intensity (U 238): 47383.79
Obtained Intensity (Bkgd 220): 0.27
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
Obtained RSD (Be 9): 0.0116
Obtained RSD (In 115): 0.0037
Obtained RSD (U 238): 0.0033

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.03
Obtained Intensity (In 115): 63716.78
Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 12:54:12 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7877.30
		Obtained Intensity (In 115): 64643.46
		Obtained Intensity (U 238): 47383.79
		Obtained Intensity (Bkgd 220): 0.27
		Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
		Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
		Obtained RSD (Be 9): 0.0116
		Obtained RSD (In 115): 0.0037
		Obtained RSD (U 238): 0.0033

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 63716.78
		Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)
[Passed] Optimum value(s): 1.03

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	35977.2
Mg	24	41	-12.5	38259.2
In	115	41	-10	69818.2
Ce	140	41	-8	65670.6
Pb	208	41	-7	31510.7
U	238	41	-7	53463.9

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26320.2
Mg	24	41	-12.5	22105.1
In	115	41	-11	41058.9
Ce	140	41	-8.5	49850.8
Pb	208	41	-6	26324.2
U	238	41	-6.5	39065.3

End Time: 1/9/2023 1:04:05 PM

Performance Check Report

Sample ID: STD Performance Check

Sample Date/Time: Monday, January 09, 2023 13:08:10
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4868
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8379.1	8379.057	171.401	2.0	Standard
	In	114.9	68481.0	68481.031	817.063	1.2	Standard
	U	238.1	52863.0	52863.045	803.864	1.5	Standard
⎡	CeO	155.9	1122.3	0.018	0.001	5.9	Standard
⎢>	Ce	139.9	62978.9	62978.856	462.492	0.7	Standard
⎣	Ce++	70.0	1527.0	0.024	0.001	3.5	Standard
	Bkgd	220.0	0.0	0.033	0.075	223.6	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 1:04:32 PM
End Time: 1/9/2023 1:10:14 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 8379.06
Obtained Intensity (In 115): 68481.03
Obtained Intensity (U 238): 52863.04
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
Obtained RSD (Be 9): 0.0205
Obtained RSD (In 115): 0.0119
Obtained RSD (U 238): 0.0152

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 1:04:32 PM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13.5	35909.1
Mg	24	41	-12.5	35175.3
In	115	41	-9.5	69677.5
Ce	140	41	-8	64091.4
Pb	208	41	-7	32328.5
U	238	41	-7	53078.4

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26997.5
Mg	24	41	-13	23399.1
In	115	41	-9.5	41203.3
Ce	140	41	-8.5	49706.3
Pb	208	41	-6	25041.9
U	238	41	-5.5	39177.6

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 1

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

RSD Criterion: Be 9.0122 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

Optimization Results:
Initial Try
Obtained Intensity (Be 9): 8379.06
Obtained Intensity (In 115): 68481.03
Obtained Intensity (U 238): 52863.04
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
Obtained RSD (Be 9): 0.0205
Obtained RSD (In 115): 0.0119
Obtained RSD (U 238): 0.0152

[Passed] Optimum value(s): N/A

End Time: 1/9/2023 1:10:14 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:07:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				34196	4	Standard
	Cl	**37**		ug/L				3578521	0	Standard
⎡>	**Sc**	**45**		ug/L				476701	2	Standard
⎢	**Cr**	**52**		ug/L				18596	1	Standard
⎢	**Cr**	**53**		ug/L				133	1	Standard
⎣	**Mn**	**55**		ug/L				801	3	Standard
⎡>	**Ge**	**72**		ug/L				24444	3	KED
⎢	**Ni**	**60**		ug/L				86	11	KED
⎢	**Ni**	**62**		ug/L				16	33	KED
⎢	**Cu**	**63**		ug/L				67	30	KED
⎢	**Cu**	**65**		ug/L				42	18	KED
⎢	**Zn**	**66**		ug/L				67	9	KED
⎢	**Zn**	**67**		ug/L				11	16	KED
⎣	**As**	**75**		ug/L				6	31	KED
	Y	**89**		ug/L				230853	2	Standard
	Kr	**83**		ug/L				65	12	Standard
⎡>	**In-1**	**115**		ug/L				6387	3	KED
⎢	**Cd**	**111**		ug/L				5	39	KED
⎣	**Cd**	**114**		ug/L				2	124	KED
⎡>	**Tb**	**159**		ug/L				540555	4	Standard
⎣	**Pb**	**208**		ug/L				256	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:11:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38817	4	Standard
	Cl	**37**		ug/L			3578521	3519195	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	468423	2	Standard
⎢	**Cr**	**52**	**0.500**	ug/L	0.019	3	18596	28651	2	Standard
⎢	**Cr**	**53**	**0.500**	ug/L	0.029	5	133	1223	3	Standard
⎣	**Mn**	**55**	**0.500**	ug/L	0.014	2	801	14624	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	25182	0	KED
⎢	**Ni**	**60**	**0.500**	ug/L	0.049	9	86	570	9	KED
⎢	**Ni**	**62**	**0.500**	ug/L	0.083	16	16	80	13	KED
⎢	**Cu**	**63**	**0.500**	ug/L	0.007	1	67	1772	0	KED
⎢	**Cu**	**65**	**0.500**	ug/L	0.033	6	42	893	6	KED
⎢	**Zn**	**66**	**6.000**	ug/L	0.046	0	67	2886	1	KED
⎢	**Zn**	**67**	**6.000**	ug/L	0.125	2	11	431	2	KED
⎣	**As**	**75**	**0.200**	ug/L	0.030	15	6	53	13	KED
	Y	**89**		ug/L			230853	226304	1	Standard
	Kr	**83**		ug/L			65	56	21	Standard
⎡>	**In-1**	**115**		ug/L			6387	6656	0	KED
⎢	**Cd**	**111**	**0.100**	ug/L	0.024	23	5	28	19	KED
⎣	**Cd**	**114**	**0.100**	ug/L	0.012	12	2	67	11	KED
⎡>	**Tb**	**159**		ug/L			540555	542831	1	Standard
⎣	**Pb**	**208**	**0.100**	ug/L	0.004	4	256	4784	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:15:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40740	1	Standard
	Cl	**37**		ug/L			3578521	3494818	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	484571	1	Standard
⎢	**Cr**	**52**	**9.997**	ug/L	0.321	3	18596	213767	1	Standard
⎢	**Cr**	**53**	**10.000**	ug/L	0.185	1	133	22750	0	Standard
⎣	**Mn**	**55**	**10.000**	ug/L	0.123	1	801	285680	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24916	2	KED
⎢	**Ni**	**60**	**10.005**	ug/L	0.114	1	86	11813	1	KED
⎢	**Ni**	**62**	**10.008**	ug/L	0.089	0	16	1878	3	KED
⎢	**Cu**	**63**	**10.000**	ug/L	0.065	0	67	34340	1	KED
⎢	**Cu**	**65**	**10.000**	ug/L	0.127	1	42	16678	3	KED
⎢	**Zn**	**66**	**9.957**	ug/L	0.196	1	67	4640	3	KED
⎢	**Zn**	**67**	**10.390**	ug/L	0.697	6	11	817	6	KED
⎣	**As**	**75**	**10.000**	ug/L	0.279	2	6	2224	1	KED
	Y	**89**		ug/L			230853	234638	2	Standard
	Kr	**83**		ug/L			65	53	4	Standard
⎡>	**In-1**	**115**		ug/L			6387	6682	0	KED
⎢	**Cd**	**111**	**10.000**	ug/L	0.277	2	5	2504	2	KED
⎣	**Cd**	**114**	**10.000**	ug/L	0.078	0	2	5990	0	KED
⎡>	**Tb**	**159**		ug/L			540555	554130	2	Standard
⎣	**Pb**	**208**	**10.000**	ug/L	0.377	3	256	471120	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:20:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40191	3	Standard
	Cl	**37**		ug/L			3578521	3565622	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474697	0	Standard
⎢	**Cr**	**52**	**19.981**	ug/L	0.115	0	18596	398674	0	Standard
⎢	**Cr**	**53**	**19.978**	ug/L	0.466	2	133	44199	1	Standard
⎣	**Mn**	**55**	**20.053**	ug/L	0.173	0	801	566409	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24027	1	KED
⎢	**Ni**	**60**	**19.894**	ug/L	0.131	0	86	22107	2	KED
⎢	**Ni**	**62**	**19.997**	ug/L	0.520	2	16	3600	1	KED
⎢	**Cu**	**63**	**19.840**	ug/L	0.073	0	67	63613	1	KED
⎢	**Cu**	**65**	**20.006**	ug/L	0.337	1	42	32170	1	KED
⎢	**Zn**	**66**	**20.047**	ug/L	0.483	2	67	9001	2	KED
⎢	**Zn**	**67**	**19.880**	ug/L	0.213	1	11	1472	2	KED
⎣	**As**	**75**	**19.980**	ug/L	0.259	1	6	4265	2	KED
	Y	**89**		ug/L			230853	228603	0	Standard
	Kr	**83**		ug/L			65	46	21	Standard
⎡>	**In-1**	**115**		ug/L			6387	6656	0	KED
⎢	**Cd**	**111**	**19.922**	ug/L	0.068	0	5	4888	0	KED
⎣	**Cd**	**114**	**20.022**	ug/L	0.697	3	2	11995	2	KED
⎡>	**Tb**	**159**		ug/L			540555	552228	3	Standard
⎣	**Pb**	**208**	**19.967**	ug/L	0.583	2	256	931044	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:25:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32467	1	Standard
	Cl	**37**		ug/L			3578521	3716177	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	460271	2	Standard
|	**Cr**	**52**	**50.013**	ug/L	0.707	1	18596	941666	1	Standard
|	**Cr**	**53**	**49.979**	ug/L	1.016	2	133	106774	0	Standard
⌊	**Mn**	**55**	**49.849**	ug/L	0.789	1	801	1343516	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24452	2	KED
|	**Ni**	**60**	**49.596**	ug/L	1.137	2	86	53766	0	KED
|	**Ni**	**62**	**49.792**	ug/L	1.643	3	16	8911	1	KED
|	**Cu**	**63**	**49.904**	ug/L	1.627	3	67	161111	2	KED
|	**Cu**	**65**	**49.750**	ug/L	1.209	2	42	79340	0	KED
|	**Zn**	**66**	**49.629**	ug/L	1.262	2	67	21819	1	KED
|	**Zn**	**67**	**49.833**	ug/L	0.789	1	11	3681	3	KED
⌊	**As**	**75**	**49.840**	ug/L	1.170	2	6	10641	0	KED
	Y	**89**		ug/L			230853	227806	1	Standard
	Kr	**83**		ug/L			65	61	20	Standard
⌈>	**In-1**	**115**		ug/L			6387	6472	2	KED
|	**Cd**	**111**	**49.806**	ug/L	1.334	2	5	11645	0	KED
⌊	**Cd**	**114**	**49.760**	ug/L	1.337	2	2	28297	0	KED
⌈>	**Tb**	**159**		ug/L			540555	551403	3	Standard
⌊	**Pb**	**208**	**49.596**	ug/L	1.314	2	256	2219143	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:31:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38647	1	Standard
	Cl	**37**		ug/L			3578521	3776465	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	467709	4	Standard
⎢	**Cr**	**52**	**99.772**	ug/L	1.970	1	18596	1875966	2	Standard
⎢	**Cr**	**53**	**100.062**	ug/L	3.731	3	133	217453	2	Standard
⎣	**Mn**	**55**	**99.560**	ug/L	1.432	1	801	2686216	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**100.265**	ug/L	1.751	1	86	107154	0	KED
⎢	**Ni**	**62**	**100.063**	ug/L	2.075	2	16	17535	0	KED
⎢	**Cu**	**63**	**100.256**	ug/L	1.256	1	67	319195	0	KED
⎢	**Cu**	**65**	**100.250**	ug/L	2.886	2	42	157597	1	KED
⎢	**Zn**	**66**	**99.534**	ug/L	2.599	2	67	42077	0	KED
⎢	**Zn**	**67**	**100.044**	ug/L	3.822	3	11	7222	2	KED
⎣	**As**	**75**	**100.610**	ug/L	3.167	3	6	21432	1	KED
	Y	**89**		ug/L			230853	227537	4	Standard
	Kr	**83**		ug/L			65	95	3	Standard
⎡>	**In-1**	**115**		ug/L			6387	6490	1	KED
⎢	**Cd**	**111**	**100.087**	ug/L	1.769	1	5	23533	0	KED
⎣	**Cd**	**114**	**100.040**	ug/L	3.583	3	2	57119	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552023	4	Standard
⎣	**Pb**	**208**	**100.690**	ug/L	2.955	2	256	4615322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:38:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32272	2	Standard
	Cl	**37**		ug/L			3578521	3564314	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	456612	3	Standard
⎢	**Cr**	**52**	**0.033**	ug/L	0.021	64	18596	18403	1	Standard
⎢	**Cr**	**53**	**-0.007**	ug/L	0.002	35	133	113	7	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.000	33	801	744	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	24027	0	KED
⎢	**Ni**	**60**	**-0.005**	ug/L	0.009	197	86	80	12	KED
⎢	**Ni**	**62**	**-0.027**	ug/L	0.011	40	16	11	16	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.002	40	67	53	10	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.004	43	42	27	21	KED
⎢	**Zn**	**66**	**0.013**	ug/L	0.056	417	67	71	32	KED
⎢	**Zn**	**67**	**0.038**	ug/L	0.015	38	11	13	7	KED
⎣	**As**	**75**	**0.017**	ug/L	0.013	75	6	10	26	KED
	Y	**89**		ug/L			230853	220679	0	Standard
	Kr	**83**		ug/L			65	65	14	Standard
⎡>	**In-1**	**115**		ug/L			6387	6633	3	KED
⎢	**Cd**	**111**	**-0.007**	ug/L	0.005	61	5	3	31	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.002	1234	2	2	39	KED
⎡>	**Tb**	**159**		ug/L			540555	536786	3	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	101	256	243	5	Standard

Sample Information

Sample Date/Time: Monday, January 09, 2023 14:31:44
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.040	0.50	10	20	50	100
Cr	53	**1.0000**	0.005	0.50	10	20	50	100
Mn	55	**1.0000**	0.058	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.045	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**1.0000**	0.133	0.50	10	20	50	100
Cu	65	**1.0000**	0.066	0.50	10	20	50	100
Zn	66	**0.9999**	0.018	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.009	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.088	0.10	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.083	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:45:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40786	0	Standard
	Cl	**37**		ug/L			3578521	3843677	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	480771	2	Standard
|	**Cr**	**52**	**49.787**	ug/L	0.809	1	18596	972046	2	Standard
|	**Cr**	**53**	**49.470**	ug/L	0.879	1	133	110654	2	Standard
⌊	**Mn**	**55**	**50.598**	ug/L	0.758	1	801	1404133	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	24498	2	KED
|	**Ni**	**60**	**50.483**	ug/L	0.573	1	86	55341	2	KED
|	**Ni**	**62**	**51.318**	ug/L	0.367	0	16	9224	1	KED
|	**Cu**	**63**	**50.128**	ug/L	1.072	2	67	163576	2	KED
|	**Cu**	**65**	**50.843**	ug/L	0.690	1	42	81935	1	KED
|	**Zn**	**66**	**49.855**	ug/L	1.360	2	67	21628	0	KED
|	**Zn**	**67**	**47.602**	ug/L	0.296	0	11	3528	1	KED
⌊	**As**	**75**	**47.022**	ug/L	1.054	2	6	10268	0	KED
	Y	**89**		ug/L			230853	234516	2	Standard
	Kr	**83**		ug/L			65	62	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6662	1	KED
|	**Cd**	**111**	**50.117**	ug/L	1.037	2	5	12099	1	KED
⌊	**Cd**	**114**	**49.409**	ug/L	0.747	1	2	28971	2	KED
⌈>	**Tb**	**159**		ug/L			540555	565959	4	Standard
⌊	**Pb**	**208**	**49.764**	ug/L	2.005	4	256	2338061	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:53:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32454	2	Standard
	Cl	**37**		ug/L			3578521	3485295	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	466733	1	Standard
⎢	**Cr**	**52**	**0.007**	ug/L	0.031	434	18596	18334	1	Standard
⎢	**Cr**	**53**	**-0.003**	ug/L	0.002	69	133	124	4	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.001	215	801	766	3	Standard
⎡>	**Ge**	**72**		ug/L			24444	23033	1	KED
⎢	**Ni**	**60**	**0.006**	ug/L	0.018	298	86	87	21	KED
⎢	**Ni**	**62**	**0.005**	ug/L	0.042	773	16	16	43	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	72	67	52	14	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.003	59	42	31	15	KED
⎢	**Zn**	**66**	**0.008**	ug/L	0.010	120	67	66	4	KED
⎢	**Zn**	**67**	**-0.001**	ug/L	0.086	11541	11	10	56	KED
⎣	**As**	**75**	**0.009**	ug/L	0.008	85	6	8	17	KED
	Y	**89**		ug/L			230853	229503	2	Standard
	Kr	**83**		ug/L			65	43	24	Standard
⎡>	**In-1**	**115**		ug/L			6387	6370	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.006	50	5	2	65	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.004	355	2	1	111	KED
⎡>	**Tb**	**159**		ug/L			540555	542547	3	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	174	256	249	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:57:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31531	3	Standard
	Cl	**37**		ug/L			3578521	3763953	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	466768	2	Standard
⎢	**Cr**	**52**	**50.184**	ug/L	1.833	3	18596	950918	2	Standard
⎢	**Cr**	**53**	**49.150**	ug/L	0.936	1	133	106710	0	Standard
⎣	**Mn**	**55**	**50.141**	ug/L	0.727	1	801	1350699	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23938	3	KED
⎢	**Ni**	**60**	**49.815**	ug/L	0.710	1	86	53346	3	KED
⎢	**Ni**	**62**	**48.460**	ug/L	0.830	1	16	8512	3	KED
⎢	**Cu**	**63**	**48.874**	ug/L	1.270	2	67	155835	4	KED
⎢	**Cu**	**65**	**48.695**	ug/L	1.588	3	42	76641	2	KED
⎢	**Zn**	**66**	**49.464**	ug/L	1.551	3	67	20963	2	KED
⎢	**Zn**	**67**	**47.809**	ug/L	0.769	1	11	3464	5	KED
⎣	**As**	**75**	**49.303**	ug/L	0.930	1	6	10520	3	KED
	Y	**89**		ug/L			230853	227527	1	Standard
	Kr	**83**		ug/L			65	61	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6443	0	KED
⎢	**Cd**	**111**	**48.789**	ug/L	0.450	0	5	11394	0	KED
⎣	**Cd**	**114**	**49.216**	ug/L	0.940	1	2	27911	1	KED
⎡>	**Tb**	**159**		ug/L			540555	554668	3	Standard
⎣	**Pb**	**208**	**49.212**	ug/L	1.696	3	256	2266949	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:04:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32390	2	Standard
	Cl	**37**		ug/L			3578521	3476432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	453367	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.013	135	18596	17857	0	Standard
⎢	**Cr**	**53**	**-0.007**	ug/L	0.004	59	133	111	9	Standard
⎣	**Mn**	**55**	**-0.002**	ug/L	0.001	60	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	22661	3	KED
⎢	**Ni**	**60**	**0.008**	ug/L	0.020	251	86	87	19	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.054	446	16	17	48	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	54	13	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.006	72	42	26	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.016	82	67	54	14	KED
⎢	**Zn**	**67**	**-0.007**	ug/L	0.028	412	11	10	21	KED
⎣	**As**	**75**	**0.003**	ug/L	0.010	348	6	6	34	KED
	Y	**89**		ug/L			230853	220617	1	Standard
	Kr	**83**		ug/L			65	68	37	Standard
⎡>	**In-1**	**115**		ug/L			6387	6506	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.003	20	5	2	24	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	337	2	1	101	KED
⎡>	**Tb**	**159**		ug/L			540555	535661	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	6530	256	253	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:09:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35948	1	Standard
	Cl	**37**		ug/L			3578521	3574068	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	463765	1	Standard
|	**Cr**	**52**	**0.523**	ug/L	0.027	5	18596	27754	2	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.033	6	133	1229	7	Standard
⌊	**Mn**	**55**	**0.519**	ug/L	0.015	2	801	14652	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23422	2	KED
|	**Ni**	**60**	**0.418**	ug/L	0.031	7	86	520	6	KED
|	**Ni**	**62**	**0.511**	ug/L	0.040	7	16	103	7	KED
|	**Cu**	**63**	**0.509**	ug/L	0.016	3	67	1653	3	KED
|	**Cu**	**65**	**0.500**	ug/L	0.013	2	42	810	0	KED
|	**Zn**	**66**	**6.233**	ug/L	0.466	7	67	2642	7	KED
|	**Zn**	**67**	**5.398**	ug/L	0.365	6	11	392	7	KED
⌊	**As**	**75**	**0.208**	ug/L	0.013	6	6	49	4	KED
	Y	**89**		ug/L			230853	232415	3	Standard
	Kr	**83**		ug/L			65	60	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6420	2	KED
|	**Cd**	**111**	**0.097**	ug/L	0.014	13	5	27	12	KED
⌊	**Cd**	**114**	**0.088**	ug/L	0.015	17	2	51	13	KED
⌈>	**Tb**	**159**		ug/L			540555	540991	3	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.008	7	256	4883	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:16:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	133365	2	Standard
	Cl	**37**		ug/L			3578521	9574072	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	478682	1	Standard
|	**Cr**	**52**	**0.792**	ug/L	0.020	2	18596	33775	2	Standard
|	**Cr**	**53**	**4.268**	ug/L	0.040	0	133	9627	0	Standard
⌊	**Mn**	**55**	**0.093**	ug/L	0.001	0	801	3384	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	22875	0	KED
|	**Ni**	**60**	**0.027**	ug/L	0.005	17	86	107	4	KED
|	**Ni**	**62**	**0.101**	ug/L	0.060	59	16	32	31	KED
|	**Cu**	**63**	**0.022**	ug/L	0.006	26	67	130	14	KED
|	**Cu**	**65**	**0.019**	ug/L	0.006	29	42	68	12	KED
|	**Zn**	**66**	**0.180**	ug/L	0.031	17	67	135	9	KED
|	**Zn**	**67**	**0.121**	ug/L	0.075	61	11	19	26	KED
⌊	**As**	**75**	**0.030**	ug/L	0.010	33	6	12	16	KED
	Y	**89**		ug/L			230853	228373	0	Standard
	Kr	**83**		ug/L			65	122	20	Standard
⌈>	**In-1**	**115**		ug/L			6387	6624	0	KED
|	**Cd**	**111**	**0.034**	ug/L	0.018	53	5	13	32	KED
⌊	**Cd**	**114**	**0.050**	ug/L	0.017	33	2	31	31	KED
⌈>	**Tb**	**159**		ug/L			540555	559407	2	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.002	7	256	1519	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:20:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	138783	3	Standard
	Cl	**37**		ug/L			3578521	9966369	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	485486	2	Standard
⎢	**Cr**	**52**	**20.026**	ug/L	0.174	0	18596	406193	2	Standard
⎢	**Cr**	**53**	**23.495**	ug/L	0.073	0	133	53138	2	Standard
⎣	**Mn**	**55**	**19.655**	ug/L	0.115	0	801	551293	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23742	0	KED
⎢	**Ni**	**60**	**20.042**	ug/L	0.397	1	86	21341	2	KED
⎢	**Ni**	**62**	**19.764**	ug/L	0.554	2	16	3453	3	KED
⎢	**Cu**	**63**	**19.545**	ug/L	0.202	1	67	61861	1	KED
⎢	**Cu**	**65**	**19.953**	ug/L	0.161	0	42	31194	1	KED
⎢	**Zn**	**66**	**18.915**	ug/L	0.159	0	67	7995	0	KED
⎢	**Zn**	**67**	**16.667**	ug/L	1.048	6	11	1204	5	KED
⎣	**As**	**75**	**19.326**	ug/L	0.115	0	6	4095	0	KED
	Y	**89**		ug/L			230853	229966	1	Standard
	Kr	**83**		ug/L			65	137	27	Standard
⎡>	**In-1**	**115**		ug/L			6387	6521	0	KED
⎢	**Cd**	**111**	**18.736**	ug/L	0.428	2	5	4431	1	KED
⎣	**Cd**	**114**	**18.778**	ug/L	0.504	2	2	10778	1	KED
⎡>	**Tb**	**159**		ug/L			540555	573723	2	Standard
⎣	**Pb**	**208**	**0.023**	ug/L	0.001	5	256	1349	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:25:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39074	3	Standard
	Cl	**37**		ug/L			3578521	3856935	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	456409	3	Standard
⎢	**Cr**	**52**	**193.343**	ug/L	2.966	1	18596	3531440	1	Standard
⎢	**Cr**	**53**	**198.015**	ug/L	5.129	2	133	419899	1	Standard
⎣	**Mn**	**55**	**191.807**	ug/L	3.718	1	801	5049101	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	22512	1	KED
⎢	**Ni**	**60**	**199.073**	ug/L	3.055	1	86	200278	1	KED
⎢	**Ni**	**62**	**192.794**	ug/L	2.871	1	16	31802	0	KED
⎢	**Cu**	**63**	**191.523**	ug/L	1.939	1	67	574163	0	KED
⎢	**Cu**	**65**	**193.460**	ug/L	4.472	2	42	286399	1	KED
⎢	**Zn**	**66**	**188.006**	ug/L	2.903	1	67	74799	0	KED
⎢	**Zn**	**67**	**186.011**	ug/L	2.602	1	11	12639	0	KED
⎣	**As**	**75**	**195.717**	ug/L	2.015	1	6	39265	0	KED
	Y	**89**		ug/L			230853	223300	2	Standard
	Kr	**83**		ug/L			65	142	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6273	2	KED
⎢	**Cd**	**111**	**190.924**	ug/L	4.507	2	5	43380	0	KED
⎣	**Cd**	**114**	**194.680**	ug/L	5.687	2	2	107437	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552314	3	Standard
⎣	**Pb**	**208**	**195.436**	ug/L	5.153	2	256	8964706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:30:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38343	3	Standard
	Cl	**37**		ug/L			3578521	3744087	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	417544	5	Standard
|	**Cr**	**52**	**294.258**	ug/L	9.636	3	18596	4904389	2	Standard
|	**Cr**	**53**	**299.702**	ug/L	5.314	1	133	581328	4	Standard
⌊	**Mn**	**55**	**290.052**	ug/L	11.115	3	801	6979432	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22282	0	KED
|	**Ni**	**60**	**287.935**	ug/L	4.653	1	86	286696	1	KED
|	**Ni**	**62**	**289.121**	ug/L	9.466	3	16	47202	3	KED
|	**Cu**	**63**	**283.347**	ug/L	3.513	1	67	840765	0	KED
|	**Cu**	**65**	**277.320**	ug/L	6.276	2	42	406371	2	KED
|	**Zn**	**66**	**273.038**	ug/L	5.484	2	67	107507	2	KED
|	**Zn**	**67**	**275.612**	ug/L	6.869	2	11	18534	2	KED
⌊	**As**	**75**	**290.018**	ug/L	2.768	0	6	57589	0	KED
	Y	**89**		ug/L			230853	203066	6	Standard
	Kr	**83**		ug/L			65	189	25	Standard
⌈>	**In-1**	**115**		ug/L			6387	6115	1	KED
|	**Cd**	**111**	**277.844**	ug/L	0.889	0	5	61559	0	KED
⌊	**Cd**	**114**	**281.147**	ug/L	1.593	0	2	151309	0	KED
⌈>	**Tb**	**159**		ug/L			540555	511728	6	Standard
⌊	**Pb**	**208**	**296.866**	ug/L	18.243	6	256	12588201	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:37:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38232	2	Standard
	Cl	**37**		ug/L			3578521	3767099	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	473134	1	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.012	41	18596	18982	0	Standard
|	**Cr**	**53**	**0.058**	ug/L	0.007	12	133	258	5	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.001	43	801	721	4	Standard
⌈>	**Ge**	**72**		ug/L			24444	24085	0	KED
|	**Ni**	**60**	**-0.061**	ug/L	0.008	12	86	19	43	KED
|	**Ni**	**62**	**-0.056**	ug/L	0.013	22	16	6	34	KED
|	**Cu**	**63**	**0.018**	ug/L	0.002	10	67	124	4	KED
|	**Cu**	**65**	**0.013**	ug/L	0.009	64	42	62	21	KED
|	**Zn**	**66**	**0.014**	ug/L	0.039	272	67	72	22	KED
|	**Zn**	**67**	**0.020**	ug/L	0.015	74	11	12	8	KED
⌊	**As**	**75**	**0.014**	ug/L	0.012	83	6	9	25	KED
	Y	**89**		ug/L			230853	226205	2	Standard
	Kr	**83**		ug/L			65	48	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6471	1	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	152	2	3	34	KED
⌈>	**Tb**	**159**		ug/L			540555	546900	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	22	256	295	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:43:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33964	2	Standard
	Cl	**37**		ug/L			3578521	3844252	4	Standard
⌈>	**Sc**	**45**		ug/L			476701	480369	1	Standard
|	**Cr**	**52**	**48.855**	ug/L	0.513	1	18596	953430	1	Standard
|	**Cr**	**53**	**49.077**	ug/L	0.428	0	133	109674	0	Standard
⌊	**Mn**	**55**	**50.517**	ug/L	0.452	0	801	1400700	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	24890	0	KED
|	**Ni**	**60**	**49.269**	ug/L	0.541	1	86	54872	1	KED
|	**Ni**	**62**	**49.893**	ug/L	1.722	3	16	9113	3	KED
|	**Cu**	**63**	**49.049**	ug/L	0.590	1	67	162640	1	KED
|	**Cu**	**65**	**49.669**	ug/L	0.938	1	42	81338	1	KED
|	**Zn**	**66**	**50.175**	ug/L	0.106	0	67	22123	0	KED
|	**Zn**	**67**	**50.188**	ug/L	1.538	3	11	3779	3	KED
⌊	**As**	**75**	**49.548**	ug/L	0.333	0	6	10996	0	KED
	Y	**89**		ug/L			230853	235771	3	Standard
	Kr	**83**		ug/L			65	59	11	Standard
⌈>	**In-1**	**115**		ug/L			6387	6848	2	KED
|	**Cd**	**111**	**49.936**	ug/L	1.831	3	5	12386	0	KED
⌊	**Cd**	**114**	**50.024**	ug/L	2.132	4	2	30130	1	KED
⌈>	**Tb**	**159**		ug/L			540555	563345	3	Standard
⌊	**Pb**	**208**	**49.922**	ug/L	1.242	2	256	2335962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:50:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33015	0	Standard
	Cl	**37**		ug/L			3578521	3704542	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474926	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.027	1536	18596	18496	3	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	133	207	4	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	54	801	726	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24129	0	KED
⎢	**Ni**	**60**	**-0.009**	ug/L	0.004	46	86	75	5	KED
⎢	**Ni**	**62**	**0.005**	ug/L	0.011	219	16	17	11	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	56	11	KED
⎢	**Cu**	**65**	**-0.008**	ug/L	0.004	50	42	29	19	KED
⎢	**Zn**	**66**	**-0.004**	ug/L	0.022	568	67	64	13	KED
⎢	**Zn**	**67**	**-0.024**	ug/L	0.025	103	11	9	20	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.015	305	6	5	57	KED
	Y	**89**		ug/L			230853	233305	1	Standard
	Kr	**83**		ug/L			65	44	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6405	1	KED
⎢	**Cd**	**111**	**-0.007**	ug/L	0.010	153	5	3	68	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.007	679	2	2	132	KED
⎡>	**Tb**	**159**		ug/L			540555	547515	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	160	256	233	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 15:59:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	46324	2	Standard
	Cl	**37**		ug/L			3578521	3738945	3	Standard
⌈>	**Sc**	**45**		ug/L			476701	484141	3	Standard
|	**Cr**	**52**	**0.059**	ug/L	0.011	18	18596	20016	3	Standard
|	**Cr**	**53**	**0.032**	ug/L	0.004	13	133	206	1	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.003	90	801	893	4	Standard
⌈>	**Ge**	**72**		ug/L			24444	24924	1	KED
|	**Ni**	**60**	**-0.064**	ug/L	0.005	8	86	17	33	KED
|	**Ni**	**62**	**-0.068**	ug/L	0.012	18	16	4	49	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.001	5	67	39	5	KED
|	**Cu**	**65**	**-0.012**	ug/L	0.003	26	42	24	22	KED
|	**Zn**	**66**	**-0.059**	ug/L	0.014	22	67	42	14	KED
|	**Zn**	**67**	**-0.054**	ug/L	0.026	48	11	7	25	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.008	129	6	5	35	KED
	Y	**89**		ug/L			230853	233132	3	Standard
	Kr	**83**		ug/L			65	46	20	Standard
⌈>	**In-1**	**115**		ug/L			6387	7032	1	KED
|	**Cd**	**111**	**-0.016**	ug/L	0.002	14	5	1	34	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.006	1324	2	2	134	KED
⌈>	**Tb**	**159**		ug/L			540555	554009	4	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	15	256	178	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:03:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40988	0	Standard
	Cl	**37**		ug/L			3578521	3629257	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	459012	2	Standard
|	**Cr**	**52**	**26.943**	ug/L	0.797	2	18596	510278	0	Standard
|	**Cr**	**53**	**26.559**	ug/L	0.543	2	133	56774	2	Standard
⌊	**Mn**	**55**	**27.237**	ug/L	0.754	2	801	721705	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23613	0	KED
|	**Ni**	**60**	**26.460**	ug/L	0.460	1	86	27993	1	KED
|	**Ni**	**62**	**26.261**	ug/L	0.868	3	16	4557	2	KED
|	**Cu**	**63**	**26.325**	ug/L	0.339	1	67	82836	0	KED
|	**Cu**	**65**	**27.041**	ug/L	0.490	1	42	42027	1	KED
|	**Zn**	**66**	**81.867**	ug/L	1.187	1	67	34202	0	KED
|	**Zn**	**67**	**76.445**	ug/L	1.246	1	11	5455	1	KED
⌊	**As**	**75**	**25.218**	ug/L	0.451	1	6	5312	1	KED
	Y	**89**		ug/L			230853	225975	1	Standard
	Kr	**83**		ug/L			65	60	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6475	1	KED
|	**Cd**	**111**	**25.974**	ug/L	0.726	2	5	6097	1	KED
⌊	**Cd**	**114**	**25.913**	ug/L	0.100	0	2	14770	1	KED
⌈>	**Tb**	**159**		ug/L			540555	535290	2	Standard
⌊	**Pb**	**208**	**27.333**	ug/L	0.697	2	256	1215549	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:15:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40306	2	Standard
	Cl	**37**		ug/L			3578521	3599694	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	457934	2	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.033	168	18596	18217	1	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.003	15	133	175	3	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	10	801	938	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23903	1	KED
|	**Ni**	**60**	**-0.070**	ug/L	0.004	5	86	9	40	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	15	16	3	50	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	41	67	53	10	KED
|	**Cu**	**65**	**-0.012**	ug/L	0.004	31	42	23	26	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.020	54	67	50	15	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.025	51	11	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	855	6	6	18	KED
	Y	**89**		ug/L			230853	222370	2	Standard
	Kr	**83**		ug/L			65	43	19	Standard
⌈>	**In-1**	**115**		ug/L			6387	6482	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.006	75	5	3	45	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	169	2	3	37	KED
⌈>	**Tb**	**159**		ug/L			540555	532770	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	121	256	218	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:20:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39701	3	Standard
	Cl	**37**		ug/L			3578521	3641610	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	482467	1	Standard
|	**Cr**	**52**	**27.183**	ug/L	0.195	0	18596	541167	1	Standard
|	**Cr**	**53**	**27.154**	ug/L	0.144	0	133	61017	2	Standard
⌊	**Mn**	**55**	**27.761**	ug/L	0.471	1	801	773317	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23902	1	KED
|	**Ni**	**60**	**27.923**	ug/L	0.516	1	86	29896	0	KED
|	**Ni**	**62**	**27.174**	ug/L	0.913	3	16	4775	4	KED
|	**Cu**	**63**	**26.665**	ug/L	0.528	1	67	84932	2	KED
|	**Cu**	**65**	**27.045**	ug/L	0.587	2	42	42543	1	KED
|	**Zn**	**66**	**84.993**	ug/L	2.024	2	67	35935	1	KED
|	**Zn**	**67**	**77.004**	ug/L	1.713	2	11	5563	3	KED
⌊	**As**	**75**	**25.553**	ug/L	0.662	2	6	5447	1	KED
	Y	**89**		ug/L			230853	234135	0	Standard
	Kr	**83**		ug/L			65	66	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6720	1	KED
|	**Cd**	**111**	**25.939**	ug/L	0.364	1	5	6320	1	KED
⌊	**Cd**	**114**	**26.196**	ug/L	0.419	1	2	15495	1	KED
⌈>	**Tb**	**159**		ug/L			540555	544321	3	Standard
⌊	**Pb**	**208**	**28.164**	ug/L	1.019	3	256	1273060	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:24:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34600	3	Standard
	Cl	**37**		ug/L			3578521	3567331	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	449997	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.027	351	18596	17692	3	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.006	22	133	183	6	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.003	160	801	801	7	Standard
⌈>	**Ge**	**72**		ug/L			24444	23602	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.008	49	86	100	9	KED
|	**Ni**	**62**	**0.103**	ug/L	0.029	28	16	33	14	KED
|	**Cu**	**63**	**37.085**	ug/L	0.056	0	67	116624	1	KED
|	**Cu**	**65**	**37.112**	ug/L	0.436	1	42	57637	0	KED
|	**Zn**	**66**	**0.486**	ug/L	0.058	11	67	267	10	KED
|	**Zn**	**67**	**0.416**	ug/L	0.009	2	11	40	2	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	131	6	8	35	KED
	Y	**89**		ug/L			230853	221057	2	Standard
	Kr	**83**		ug/L			65	59	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6612	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.011	75	5	1	132	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⌈>	**Tb**	**159**		ug/L			540555	521310	3	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.004	4	256	3998	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-14
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 16:28:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	37032	4	Standard
	Cl	**37**		ug/L			3578521	3612709	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	461936	0	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.017	21	18596	19452	1	Standard
|	**Cr**	**53**	**0.124**	ug/L	0.008	6	133	394	4	Standard
⌊	**Mn**	**55**	**0.214**	ug/L	0.006	2	801	6472	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23448	2	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	61	86	90	3	KED
|	**Ni**	**62**	**0.160**	ug/L	0.059	37	16	43	21	KED
|	**Cu**	**63**	**57.999**	ug/L	2.111	3	67	181076	2	KED
|	**Cu**	**65**	**57.765**	ug/L	2.160	3	42	89070	2	KED
|	**Zn**	**66**	**1.330**	ug/L	0.104	7	67	614	5	KED
|	**Zn**	**67**	**1.213**	ug/L	0.248	20	11	96	15	KED
⌊	**As**	**75**	**0.104**	ug/L	0.008	7	6	28	8	KED
	Y	**89**		ug/L			230853	223875	0	Standard
	Kr	**83**		ug/L			65	55	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6464	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.008	134	5	3	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	167	2	3	54	KED
⌈>	**Tb**	**159**		ug/L			540555	531880	4	Standard
⌊	**Pb**	**208**	**0.610**	ug/L	0.026	4	256	27175	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-02
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:33:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36675	1	Standard
	Cl	**37**		ug/L			3578521	3628064	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	473048	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.014	28	18596	19353	0	Standard
|	**Cr**	**53**	**0.057**	ug/L	0.010	18	133	258	7	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.002	12	801	1282	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	24540	2	KED
|	**Ni**	**60**	**-0.014**	ug/L	0.006	47	86	71	11	KED
|	**Ni**	**62**	**0.134**	ug/L	0.011	8	16	40	7	KED
|	**Cu**	**63**	**54.182**	ug/L	1.116	2	67	177056	0	KED
|	**Cu**	**65**	**55.386**	ug/L	2.140	3	42	89354	0	KED
|	**Zn**	**66**	**4.384**	ug/L	0.306	6	67	1965	4	KED
|	**Zn**	**67**	**3.472**	ug/L	0.369	10	11	267	7	KED
⌊	**As**	**75**	**0.016**	ug/L	0.007	43	6	10	15	KED
	Y	**89**		ug/L			230853	231963	1	Standard
	Kr	**83**		ug/L			65	52	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6706	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.006	52	5	2	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	442	2	2	73	KED
⌈>	**Tb**	**159**		ug/L			540555	547136	2	Standard
⌊	**Pb**	**208**	**0.038**	ug/L	0.001	3	256	1983	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0475-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:37:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35647	2	Standard
	Cl	**37**		ug/L			3578521	3575993	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	454965	2	Standard
⎢	**Cr**	**52**	**0.074**	ug/L	0.017	23	18596	19081	0	Standard
⎢	**Cr**	**53**	**0.093**	ug/L	0.003	3	133	324	0	Standard
⎣	**Mn**	**55**	**0.460**	ug/L	0.011	2	801	12835	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23475	0	KED
⎢	**Ni**	**60**	**-0.015**	ug/L	0.018	114	86	66	27	KED
⎢	**Ni**	**62**	**0.000**	ug/L	0.055	28890	16	15	59	KED
⎢	**Cu**	**63**	**0.467**	ug/L	0.034	7	67	1525	6	KED
⎢	**Cu**	**65**	**0.506**	ug/L	0.051	10	42	822	9	KED
⎢	**Zn**	**66**	**60.664**	ug/L	1.748	2	67	25213	2	KED
⎢	**Zn**	**67**	**52.682**	ug/L	0.456	0	11	3741	1	KED
⎣	**As**	**75**	**0.065**	ug/L	0.006	8	6	20	6	KED
	Y	**89**		ug/L			230853	221691	1	Standard
	Kr	**83**		ug/L			65	52	16	Standard
⎡>	**In-1**	**115**		ug/L			6387	6478	1	KED
⎢	**Cd**	**111**	**0.120**	ug/L	0.009	7	5	33	4	KED
⎣	**Cd**	**114**	**0.137**	ug/L	0.039	28	2	80	26	KED
⎡>	**Tb**	**159**		ug/L			540555	518561	3	Standard
⎣	**Pb**	**208**	**0.030**	ug/L	0.003	8	256	1544	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0476-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:42:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36008	4	Standard
	Cl	**37**		ug/L			3578521	3564717	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	466106	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.035	48	18596	19499	4	Standard
|	**Cr**	**53**	**0.082**	ug/L	0.001	1	133	307	3	Standard
⌊	**Mn**	**55**	**0.419**	ug/L	0.004	1	801	12045	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	23777	1	KED
|	**Ni**	**60**	**-0.035**	ug/L	0.005	13	86	46	11	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.022	136	16	13	28	KED
|	**Cu**	**63**	**0.424**	ug/L	0.025	5	67	1408	6	KED
|	**Cu**	**65**	**0.439**	ug/L	0.026	5	42	727	4	KED
|	**Zn**	**66**	**57.739**	ug/L	2.119	3	67	24303	2	KED
|	**Zn**	**67**	**51.530**	ug/L	1.622	3	11	3706	3	KED
⌊	**As**	**75**	**0.044**	ug/L	0.020	44	6	15	25	KED
	Y	**89**		ug/L			230853	225384	4	Standard
	Kr	**83**		ug/L			65	45	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6319	0	KED
|	**Cd**	**111**	**0.103**	ug/L	0.011	10	5	28	8	KED
⌊	**Cd**	**114**	**0.170**	ug/L	0.019	10	2	96	10	KED
⌈>	**Tb**	**159**		ug/L			540555	530176	5	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.001	4	256	1418	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33771	3	Standard
	Cl	**37**		ug/L			3578521	3526406	3	Standard
⎡>	**Sc**	**45**		ug/L			476701	447002	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.022	214	18596	17617	0	Standard
⎢	**Cr**	**53**	**0.008**	ug/L	0.000	4	133	142	1	Standard
⎣	**Mn**	**55**	**-0.008**	ug/L	0.000	5	801	558	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23310	1	KED
⎢	**Ni**	**60**	**-0.066**	ug/L	0.002	2	86	13	14	KED
⎢	**Ni**	**62**	**-0.070**	ug/L	0.011	16	16	3	50	KED
⎢	**Cu**	**63**	**-0.007**	ug/L	0.002	30	67	42	15	KED
⎢	**Cu**	**65**	**-0.017**	ug/L	0.005	29	42	13	55	KED
⎢	**Zn**	**66**	**-0.080**	ug/L	0.019	23	67	31	24	KED
⎢	**Zn**	**67**	**-0.056**	ug/L	0.015	27	11	6	15	KED
⎣	**As**	**75**	**0.004**	ug/L	0.004	100	6	7	11	KED
	Y	**89**		ug/L			230853	216880	3	Standard
	Kr	**83**		ug/L			65	54	24	Standard
⎡>	**In-1**	**115**		ug/L			6387	6437	1	KED
⎢	**Cd**	**111**	**-0.010**	ug/L	0.000	1	5	2	0	KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.003	57	2	5	33	KED
⎡>	**Tb**	**159**		ug/L			540555	514991	3	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	36	256	182	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:51:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31671	0	Standard
	Cl	**37**		ug/L			3578521	3735267	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	451697	0	Standard
|	**Cr**	**52**	**49.270**	ug/L	1.157	2	18596	904130	2	Standard
|	**Cr**	**53**	**49.738**	ug/L	0.169	0	133	104529	1	Standard
⌊	**Mn**	**55**	**50.464**	ug/L	0.445	0	801	1315691	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23403	1	KED
|	**Ni**	**60**	**49.983**	ug/L	1.151	2	86	52338	2	KED
|	**Ni**	**62**	**49.539**	ug/L	0.997	2	16	8506	1	KED
|	**Cu**	**63**	**48.754**	ug/L	1.515	3	67	151947	1	KED
|	**Cu**	**65**	**49.050**	ug/L	0.947	1	42	75517	1	KED
|	**Zn**	**66**	**50.197**	ug/L	1.427	2	67	20804	1	KED
|	**Zn**	**67**	**49.599**	ug/L	0.379	0	11	3512	1	KED
⌊	**As**	**75**	**49.586**	ug/L	0.877	1	6	10345	1	KED
	Y	**89**		ug/L			230853	223742	0	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6419	1	KED
|	**Cd**	**111**	**49.647**	ug/L	0.891	1	5	11551	1	KED
⌊	**Cd**	**114**	**50.339**	ug/L	0.757	1	2	28440	1	KED
⌈>	**Tb**	**159**		ug/L			540555	523439	4	Standard
⌊	**Pb**	**208**	**51.000**	ug/L	1.813	3	256	2216343	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:59:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32521	4	Standard
	Cl	**37**		ug/L			3578521	3548973	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	448574	1	Standard
⎢	**Cr**	**52**	**0.014**	ug/L	0.007	49	18596	17744	1	Standard
⎢	**Cr**	**53**	**0.001**	ug/L	0.005	711	133	126	9	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.002	49	801	656	6	Standard
⎡>	**Ge**	**72**		ug/L			24444	24308	1	KED
⎢	**Ni**	**60**	**0.013**	ug/L	0.016	120	86	100	18	KED
⎢	**Ni**	**62**	**-0.004**	ug/L	0.043	1205	16	15	49	KED
⎢	**Cu**	**63**	**-0.005**	ug/L	0.003	56	67	50	20	KED
⎢	**Cu**	**65**	**-0.015**	ug/L	0.006	37	42	18	47	KED
⎢	**Zn**	**66**	**0.015**	ug/L	0.022	142	67	73	14	KED
⎢	**Zn**	**67**	**-0.043**	ug/L	0.013	30	11	8	13	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.008	1396	6	6	25	KED
	Y	**89**		ug/L			230853	219778	2	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6729	2	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	28	5	1	50	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⎡>	**Tb**	**159**		ug/L			540555	518077	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	54	256	219	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:06:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39209	2	Standard
	Cl	37		ug/L			3578521	3528331	1	Standard
⌈>	Sc	45		ug/L			476701	448579	2	Standard
|	Cr	52	0.275	ug/L	0.033	11	18596	22415	3	Standard
|	Cr	53	0.248	ug/L	0.016	6	133	641	5	Standard
⌊	Mn	55	0.311	ug/L	0.006	2	801	8803	2	Standard
⌈>	Ge	72		ug/L			24444	23782	0	KED
|	Ni	60	-0.062	ug/L	0.012	19	86	18	68	KED
|	Ni	62	-0.070	ug/L	0.000	0	16	3	0	KED
|	Cu	63	0.012	ug/L	0.002	13	67	104	4	KED
|	Cu	65	0.004	ug/L	0.004	82	42	48	12	KED
|	Zn	66	0.394	ug/L	0.040	10	67	231	7	KED
|	Zn	67	0.332	ug/L	0.146	44	11	34	30	KED
⌊	As	75	0.005	ug/L	0.010	192	6	7	28	KED
	Y	89		ug/L			230853	221360	2	Standard
	Kr	83		ug/L			65	42	6	Standard
⌈>	In-1	115		ug/L			6387	6672	1	KED
|	Cd	111	-0.015	ug/L	0.004	28	5	1	69	KED
⌊	Cd	114	0.002	ug/L	0.003	195	2	3	56	KED
⌈>	Tb	159		ug/L			540555	517458	3	Standard
⌊	Pb	208	0.001	ug/L	0.000	30	256	269	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:10:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	42130	1	Standard
	Cl	**37**		ug/L			3578521	3799089	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	469683	3	Standard
|	**Cr**	**52**	**25.810**	ug/L	0.522	2	18596	501122	3	Standard
|	**Cr**	**53**	**25.728**	ug/L	0.279	1	133	56291	4	Standard
⌊	**Mn**	**55**	**26.271**	ug/L	0.102	0	801	712608	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	23159	0	KED
|	**Ni**	**60**	**26.840**	ug/L	0.383	1	86	27849	1	KED
|	**Ni**	**62**	**25.964**	ug/L	0.743	2	16	4420	3	KED
|	**Cu**	**63**	**25.595**	ug/L	0.865	3	67	78981	2	KED
|	**Cu**	**65**	**26.199**	ug/L	0.371	1	42	39936	0	KED
|	**Zn**	**66**	**88.484**	ug/L	1.498	1	67	36256	2	KED
|	**Zn**	**67**	**80.444**	ug/L	0.941	1	11	5629	0	KED
⌊	**As**	**75**	**25.560**	ug/L	0.154	0	6	5280	0	KED
	Y	**89**		ug/L			230853	229560	2	Standard
	Kr	**83**		ug/L			65	53	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6571	3	KED
|	**Cd**	**111**	**25.362**	ug/L	0.860	3	5	6040	1	KED
⌊	**Cd**	**114**	**25.591**	ug/L	0.979	3	2	14792	0	KED
⌈>	**Tb**	**159**		ug/L			540555	547406	3	Standard
⌊	**Pb**	**208**	**26.145**	ug/L	0.822	3	256	1188596	0	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BLK1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, January 09, 2023 17:14:54

MB 1/9/23

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41552	2	Standard
	Cl	**37**		ug/L			3578521	3541733	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	442805	0	Standard
|	**Cr**	**52**	**0.112**	ug/L	0.011	9	18596	19252	1	Standard
|	**Cr**	**53**	**0.064**	ug/L	0.008	13	133	256	6	Standard
⌊	**Mn**	**55**	**0.255**	ug/L	0.004	1	801	7246	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23525	0	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.007	12	86	18	41	KED
|	**Ni**	**62**	**-0.067**	ug/L	0.028	41	16	4	107	KED
|	**Cu**	**63**	**0.020**	ug/L	0.005	24	67	128	12	KED
|	**Cu**	**65**	**0.010**	ug/L	0.008	80	42	55	21	KED
|	**Zn**	**66**	**0.354**	ug/L	0.082	23	67	212	16	KED
|	**Zn**	**67**	**0.356**	ug/L	0.207	58	11	36	39	KED
⌊	**As**	**75**	**0.014**	ug/L	0.013	89	6	9	28	KED
	Y	**89**		ug/L			230853	217530	3	Standard
	Kr	**83**		ug/L			65	43	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6417	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	266	2	2	35	KED
⌈>	**Tb**	**159**		ug/L			540555	506188	4	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	14	256	370	7	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BS1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, January 09, 2023 17:19:16

MB 1/9/23

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41327	2	Standard
	Cl	**37**		ug/L			3578521	3591995	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	447825	2	Standard
|	**Cr**	**52**	**25.477**	ug/L	0.581	2	18596	471780	1	Standard
|	**Cr**	**53**	**25.000**	ug/L	0.317	1	133	52141	1	Standard
⌊	**Mn**	**55**	**25.902**	ug/L	0.729	2	801	669814	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23216	1	KED
|	**Ni**	**60**	**25.895**	ug/L	0.592	2	86	26933	1	KED
|	**Ni**	**62**	**25.597**	ug/L	0.549	2	16	4367	0	KED
|	**Cu**	**63**	**25.953**	ug/L	0.718	2	67	80280	1	KED
|	**Cu**	**65**	**26.341**	ug/L	1.148	4	42	40236	2	KED
|	**Zn**	**66**	**84.556**	ug/L	1.267	1	67	34729	1	KED
|	**Zn**	**67**	**77.096**	ug/L	0.585	0	11	5409	2	KED
⌊	**As**	**75**	**25.243**	ug/L	0.242	0	6	5228	1	KED
	Y	**89**		ug/L			230853	218917	2	Standard
	Kr	**83**		ug/L			65	53	37	Standard
⌈>	**In-1**	**115**		ug/L			6387	6535	2	KED
|	**Cd**	**111**	**25.386**	ug/L	0.620	2	5	6013	1	KED
⌊	**Cd**	**114**	**25.184**	ug/L	0.843	3	2	14481	2	KED
⌈>	**Tb**	**159**		ug/L			540555	513669	5	Standard
⌊	**Pb**	**208**	**26.686**	ug/L	1.146	4	256	1137609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0066-01RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	128320	2	Standard
	Cl	**37**		ug/L			3578521	3899699	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	471371	1	Standard
|	**Cr**	**52**	**1.942**	ug/L	0.077	3	18596	54862	3	Standard
|	**Cr**	**53**	**1.683**	ug/L	0.014	0	133	3819	2	Standard
⌊	**Mn**	**55**	**4.635**	ug/L	0.121	2	801	126852	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22635	0	KED
|	**Ni**	**60**	**1.911**	ug/L	0.046	2	86	2012	2	KED
|	**Ni**	**62**	**1.892**	ug/L	0.136	7	16	328	6	KED
|	**Cu**	**63**	**0.109**	ug/L	0.007	6	67	389	4	KED
|	**Cu**	**65**	**0.096**	ug/L	0.021	21	42	182	17	KED
|	**Zn**	**66**	**2.203**	ug/L	0.080	3	67	942	3	KED
|	**Zn**	**67**	**1.778**	ug/L	0.239	13	11	132	13	KED
⌊	**As**	**75**	**0.061**	ug/L	0.013	21	6	18	14	KED
	Y	**89**		ug/L			230853	228937	4	Standard
	Kr	**83**		ug/L			65	53	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6449	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.015	68	5	10	35	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.005	17	2	17	15	KED
⌈>	**Tb**	**159**		ug/L			540555	543167	2	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.003	10	256	1450	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0137-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:28:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	96191	1	Standard
	Cl	**37**		ug/L			3578521	3946369	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	453601	2	Standard
|	**Cr**	**52**	**1.686**	ug/L	0.011	0	18596	48165	2	Standard
|	**Cr**	**53**	**1.482**	ug/L	0.026	1	133	3249	1	Standard
⌊	**Mn**	**55**	**13.578**	ug/L	0.114	0	801	356016	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	22388	1	KED
|	**Ni**	**60**	**3.108**	ug/L	0.106	3	86	3187	2	KED
|	**Ni**	**62**	**2.909**	ug/L	0.116	3	16	492	2	KED
|	**Cu**	**63**	**0.069**	ug/L	0.006	9	67	269	8	KED
|	**Cu**	**65**	**0.058**	ug/L	0.021	36	42	123	24	KED
|	**Zn**	**66**	**2.525**	ug/L	0.109	4	67	1059	3	KED
|	**Zn**	**67**	**2.272**	ug/L	0.159	6	11	163	5	KED
⌊	**As**	**75**	**0.071**	ug/L	0.015	20	6	20	13	KED
	Y	**89**		ug/L			230853	219523	2	Standard
	Kr	**83**		ug/L			65	66	20	Standard
⌈>	**In-1**	**115**		ug/L			6387	6311	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.010	258	5	4	58	KED
⌊	**Cd**	**114**	**0.020**	ug/L	0.008	39	2	13	33	KED
⌈>	**Tb**	**159**		ug/L			540555	521367	4	Standard
⌊	**Pb**	**208**	**0.016**	ug/L	0.001	8	256	921	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0116-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 17:35:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	42286	1	Standard
	Cl	**37**		ug/L			3578521	6769644	5	Standard
⌈>	**Sc**	**45**		ug/L			476701	455103	2	Standard
|	**Cr**	**52**	**9.415**	ug/L	0.110	1	18596	188397	1	Standard
|	**Cr**	**53**	**13.672**	ug/L	0.254	1	133	29035	0	Standard
⌊	**Mn**	**55**	**2.705**	ug/L	0.011	0	801	71786	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	22687	1	KED
|	**Ni**	**60**	**1.130**	ug/L	0.013	1	86	1225	1	KED
|	**Ni**	**62**	**1.199**	ug/L	0.101	8	16	214	8	KED
|	**Cu**	**63**	**12.837**	ug/L	0.290	2	67	38843	2	KED
|	**Cu**	**65**	**13.081**	ug/L	0.273	2	42	19556	2	KED
|	**Zn**	**66**	**15.132**	ug/L	0.450	2	67	6125	2	KED
|	**Zn**	**67**	**13.574**	ug/L	0.531	3	11	939	4	KED
⌊	**As**	**75**	**0.177**	ug/L	0.018	9	6	42	9	KED
	Y	**89**		ug/L			230853	218368	2	Standard
	Kr	**83**		ug/L			65	53	18	Standard
⌈>	**In-1**	**115**		ug/L			6387	6402	2	KED
|	**Cd**	**111**	**0.077**	ug/L	0.039	51	5	22	39	KED
⌊	**Cd**	**114**	**0.091**	ug/L	0.011	12	2	53	11	KED
⌈>	**Tb**	**159**		ug/L			540555	525642	3	Standard
⌊	**Pb**	**208**	**0.223**	ug/L	0.005	2	256	9982	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-43
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:40:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	66452	3	Standard
	Cl	**37**		ug/L			3578521	3763365	0	Standard
>	**Sc**	**45**		ug/L			476701	611241	2	Standard
	Cr	**52**	**16.933**	ug/L	0.258	1	18596	435999	0	Standard
	Cr	**53**	**17.179**	ug/L	0.589	3	133	48939	1	Standard
	Mn	**55**	**127.440**	ug/L	2.565	2	801	4493412	0	Standard
>	**Ge**	**72**		ug/L			24444	23695	0	KED
	Ni	**60**	**16.170**	ug/L	0.085	0	86	17200	0	KED
	Ni	**62**	**16.034**	ug/L	0.534	3	16	2798	2	KED
	Cu	**63**	**27.746**	ug/L	0.719	2	67	87600	1	KED
	Cu	**65**	**28.337**	ug/L	0.119	0	42	44195	0	KED
	Zn	**66**	**73.163**	ug/L	1.042	1	67	30679	0	KED
	Zn	**67**	**69.432**	ug/L	1.436	2	11	4974	3	KED
	As	**75**	**6.161**	ug/L	0.063	1	6	1307	1	KED
	Y	**89**		ug/L			230853	479642	1	Standard
	Kr	**83**		ug/L			65	123	8	Standard
>	**In-1**	**115**		ug/L			6387	6451	2	KED
	Cd	**111**	**0.462**	ug/L	0.073	15	5	113	16	KED
	Cd	**114**	**0.505**	ug/L	0.062	12	2	288	9	KED
>	**Tb**	**159**		ug/L			540555	565155	2	Standard
	Pb	**208**	**27.443**	ug/L	0.865	3	256	1288329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-44
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:45:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	69320	1	Standard
	Cl	**37**		ug/L			3578521	3768320	1	Standard
>	**Sc**	**45**		ug/L			476701	617526	2	Standard
	Cr	**52**	**18.193**	ug/L	0.813	4	18596	471175	1	Standard
	Cr	**53**	**18.077**	ug/L	0.316	1	133	52029	1	Standard
	Mn	**55**	**152.752**	ug/L	4.505	2	801	5439600	0	Standard
>	**Ge**	**72**		ug/L			24444	23382	2	KED
	Ni	**60**	**16.185**	ug/L	0.422	2	86	16982	0	KED
	Ni	**62**	**15.897**	ug/L	0.602	3	16	2737	2	KED
	Cu	**63**	**31.055**	ug/L	0.883	2	67	96720	1	KED
	Cu	**65**	**30.788**	ug/L	0.597	1	42	47367	0	KED
	Zn	**66**	**82.110**	ug/L	1.153	1	67	33964	0	KED
	Zn	**67**	**79.507**	ug/L	1.505	1	11	5617	2	KED
	As	**75**	**7.629**	ug/L	0.257	3	6	1595	1	KED
	Y	**89**		ug/L			230853	495011	1	Standard
	Kr	**83**		ug/L			65	163	13	Standard
>	**In-1**	**115**		ug/L			6387	6401	3	KED
	Cd	**111**	**0.698**	ug/L	0.078	11	5	166	8	KED
	Cd	**114**	**0.684**	ug/L	0.028	4	2	387	4	KED
>	**Tb**	**159**		ug/L			540555	566643	2	Standard
	Pb	**208**	**31.706**	ug/L	0.515	1	256	1492807	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:49:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34163	0	Standard
	Cl	**37**		ug/L			3578521	3515432	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	450842	1	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.023	920	18596	17537	0	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.005	22	133	173	4	Standard
⌊	**Mn**	**55**	**-0.006**	ug/L	0.001	9	801	608	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23839	1	KED
|	**Ni**	**60**	**-0.068**	ug/L	0.003	5	86	11	33	KED
|	**Ni**	**62**	**-0.081**	ug/L	0.000	0	16	1		KED
|	**Cu**	**63**	**-0.009**	ug/L	0.002	25	67	38	17	KED
|	**Cu**	**65**	**-0.016**	ug/L	0.005	29	42	16	46	KED
|	**Zn**	**66**	**-0.077**	ug/L	0.015	19	67	33	18	KED
|	**Zn**	**67**	**-0.066**	ug/L	0.042	62	11	6	45	KED
⌊	**As**	**75**	**0.003**	ug/L	0.008	255	6	7	23	KED
	Y	**89**		ug/L			230853	217262	0	Standard
	Kr	**83**		ug/L			65	62	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6522	1	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.009	75	5	2	98	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	64	2	5	35	KED
⌈>	**Tb**	**159**		ug/L			540555	513292	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	258	256	253	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34194	1	Standard
	Cl	**37**		ug/L			3578521	3833938	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	446495	6	Standard
|	**Cr**	**52**	**51.567**	ug/L	3.317	6	18596	932054	0	Standard
|	**Cr**	**53**	**51.414**	ug/L	3.131	6	133	106540	1	Standard
⌊	**Mn**	**55**	**52.127**	ug/L	3.076	5	801	1340471	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23571	0	KED
|	**Ni**	**60**	**50.219**	ug/L	1.180	2	86	52961	1	KED
|	**Ni**	**62**	**48.372**	ug/L	0.939	1	16	8366	1	KED
|	**Cu**	**63**	**48.438**	ug/L	0.151	0	67	152102	0	KED
|	**Cu**	**65**	**49.305**	ug/L	1.738	3	42	76453	2	KED
|	**Zn**	**66**	**49.398**	ug/L	1.088	2	67	20626	1	KED
|	**Zn**	**67**	**48.694**	ug/L	2.729	5	11	3472	4	KED
⌊	**As**	**75**	**49.088**	ug/L	0.913	1	6	10316	1	KED
	Y	**89**		ug/L			230853	223167	6	Standard
	Kr	**83**		ug/L			65	59	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6401	1	KED
|	**Cd**	**111**	**50.253**	ug/L	0.858	1	5	11658	0	KED
⌊	**Cd**	**114**	**50.336**	ug/L	1.378	2	2	28352	0	KED
⌈>	**Tb**	**159**		ug/L			540555	526560	6	Standard
⌊	**Pb**	**208**	**51.699**	ug/L	3.626	7	256	2256037	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32578	3	Standard
	Cl	**37**		ug/L			3578521	3603989	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	439943	1	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.020	49	18596	17864	2	Standard
|	**Cr**	**53**	**0.016**	ug/L	0.006	34	133	156	8	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	21	801	649	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23232	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.007	652	86	83	9	KED
|	**Ni**	**62**	**-0.021**	ug/L	0.045	208	16	12	63	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	89	67	53	17	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.006	161	42	34	27	KED
|	**Zn**	**66**	**0.007**	ug/L	0.006	91	67	66	2	KED
|	**Zn**	**67**	**0.036**	ug/L	0.056	157	11	13	28	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.007	298	6	5	24	KED
	Y	**89**		ug/L			230853	221338	3	Standard
	Kr	**83**		ug/L			65	48	35	Standard
⌈>	**In-1**	**115**		ug/L			6387	6543	3	KED
|	**Cd**	**111**	**-0.015**	ug/L	0.005	30	5	1	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	82	2	1	90	KED
⌈>	**Tb**	**159**		ug/L			540555	508567	4	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	12	256	212	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39642	2	Standard
	Cl	37		ug/L			3578521	3539808	2	Standard
>	Sc	45		ug/L			476701	451725	2	Standard
	Cr	52	0.044	ug/L	0.030	68	18596	18413	2	Standard
	Cr	53	0.040	ug/L	0.005	11	133	211	6	Standard
	Mn	55	0.253	ug/L	0.007	2	801	7340	3	Standard
>	Ge	72		ug/L			24444	23246	1	KED
	Ni	60	-0.057	ug/L	0.003	5	86	22	14	KED
	Ni	62	-0.085	ug/L	0.006	7	16	1	86	KED
	Cu	63	0.009	ug/L	0.006	68	67	91	19	KED
	Cu	65	0.004	ug/L	0.007	167	42	46	22	KED
	Zn	66	0.356	ug/L	0.026	7	67	210	6	KED
	Zn	67	0.542	ug/L	0.120	22	11	48	17	KED
	As	75	0.006	ug/L	0.016	283	6	7	42	KED
	Y	89		ug/L			230853	222484	3	Standard
	Kr	83		ug/L			65	52	27	Standard
>	In-1	115		ug/L			6387	6683	5	KED
	Cd	111	-0.011	ug/L	0.005	42	5	2	43	KED
	Cd	114	0.005	ug/L	0.006	122	2	5	63	KED
>	Tb	159		ug/L			540555	518735	4	Standard
	Pb	208	0.000	ug/L	0.001	783	256	249	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:11:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41334	0	Standard
	Cl	**37**		ug/L			3578521	3805467	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	454853	1	Standard
|	**Cr**	**52**	**25.874**	ug/L	0.169	0	18596	486479	0	Standard
|	**Cr**	**53**	**25.719**	ug/L	0.453	1	133	54478	0	Standard
⌊	**Mn**	**55**	**26.421**	ug/L	0.669	2	801	693883	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23571	1	KED
|	**Ni**	**60**	**25.897**	ug/L	0.541	2	86	27348	1	KED
|	**Ni**	**62**	**25.724**	ug/L	1.192	4	16	4454	2	KED
|	**Cu**	**63**	**25.508**	ug/L	0.759	2	67	80106	1	KED
|	**Cu**	**65**	**25.690**	ug/L	1.346	5	42	39835	3	KED
|	**Zn**	**66**	**83.757**	ug/L	1.000	1	67	34926	0	KED
|	**Zn**	**67**	**77.185**	ug/L	2.084	2	11	5496	1	KED
⌊	**As**	**75**	**25.316**	ug/L	0.740	2	6	5321	0	KED
	Y	**89**		ug/L			230853	224136	1	Standard
	Kr	**83**		ug/L			65	53	18	Standard
⌈>	**In-1**	**115**		ug/L			6387	6641	2	KED
|	**Cd**	**111**	**25.310**	ug/L	0.517	2	5	6093	0	KED
⌊	**Cd**	**114**	**25.441**	ug/L	0.821	3	2	14868	2	KED
⌈>	**Tb**	**159**		ug/L			540555	529839	2	Standard
⌊	**Pb**	**208**	**26.424**	ug/L	0.536	2	256	1163265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:18:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	52120	2	Standard
	Cl	**37**		ug/L			3578521	3717556	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	458766	2	Standard
|	**Cr**	**52**	**5.196**	ug/L	0.082	1	18596	112821	1	Standard
|	**Cr**	**53**	**5.211**	ug/L	0.044	0	133	11239	3	Standard
⌊	**Mn**	**55**	**50.704**	ug/L	1.097	2	801	1342296	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	21598	1	KED
|	**Ni**	**60**	**0.420**	ug/L	0.011	2	86	481	3	KED
|	**Ni**	**62**	**0.514**	ug/L	0.098	19	16	95	16	KED
|	**Cu**	**63**	**6.687**	ug/L	0.128	1	67	19289	0	KED
|	**Cu**	**65**	**6.865**	ug/L	0.168	2	42	9788	2	KED
|	**Zn**	**66**	**2.268**	ug/L	0.018	0	67	924	1	KED
|	**Zn**	**67**	**2.464**	ug/L	0.429	17	11	170	17	KED
⌊	**As**	**75**	**0.075**	ug/L	0.016	21	6	20	16	KED
	Y	**89**		ug/L			230853	219630	1	Standard
	Kr	**83**		ug/L			65	49	30	Standard
⌈>	**In-1**	**115**		ug/L			6387	6088	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	164	5	4	12	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	253	2	1	125	KED
⌈>	**Tb**	**159**		ug/L			540555	514211	3	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	13	256	543	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:22:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	49679	0	Standard
	Cl	**37**		ug/L			3578521	3628783	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	449656	1	Standard
|	**Cr**	**52**	**5.723**	ug/L	0.097	1	18596	120038	1	Standard
|	**Cr**	**53**	**5.631**	ug/L	0.063	1	133	11890	0	Standard
⌊	**Mn**	**55**	**39.052**	ug/L	0.281	0	801	1013747	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	21432	1	KED
|	**Ni**	**60**	**0.419**	ug/L	0.022	5	86	476	2	KED
|	**Ni**	**62**	**0.373**	ug/L	0.007	1	16	73	3	KED
|	**Cu**	**63**	**6.740**	ug/L	0.137	2	67	19299	3	KED
|	**Cu**	**65**	**6.888**	ug/L	0.127	1	42	9743	1	KED
|	**Zn**	**66**	**2.619**	ug/L	0.064	2	67	1050	1	KED
|	**Zn**	**67**	**2.686**	ug/L	0.213	7	11	183	5	KED
⌊	**As**	**75**	**0.087**	ug/L	0.030	34	6	22	25	KED
	Y	**89**		ug/L			230853	220785	0	Standard
	Kr	**83**		ug/L			65	53	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6043	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.008	180	5	3	43	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.010	103	2	7	71	KED
⌈>	**Tb**	**159**		ug/L			540555	520913	3	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	5	256	500	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:27:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	48101	1	Standard
	Cl	**37**		ug/L			3578521	3726634	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	473626	3	Standard
|	**Cr**	**52**	**3.205**	ug/L	0.017	0	18596	78947	3	Standard
|	**Cr**	**53**	**3.220**	ug/L	0.032	0	133	7217	2	Standard
⌊	**Mn**	**55**	**23.513**	ug/L	0.521	2	801	643057	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	21959	1	KED
|	**Ni**	**60**	**0.282**	ug/L	0.013	4	86	354	3	KED
|	**Ni**	**62**	**0.288**	ug/L	0.115	39	16	60	28	KED
|	**Cu**	**63**	**4.808**	ug/L	0.042	0	67	14118	1	KED
|	**Cu**	**65**	**4.893**	ug/L	0.053	1	42	7103	1	KED
|	**Zn**	**66**	**1.526**	ug/L	0.053	3	67	652	2	KED
|	**Zn**	**67**	**1.503**	ug/L	0.053	3	11	109	3	KED
⌊	**As**	**75**	**0.057**	ug/L	0.016	27	6	17	16	KED
	Y	**89**		ug/L			230853	230023	2	Standard
	Kr	**83**		ug/L			65	63	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6063	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.014	439	5	4	74	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.008	251	2	3	109	KED
⌈>	**Tb**	**159**		ug/L			540555	538690	5	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	4	256	490	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:31:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	45359	1	Standard
	Cl	**37**		ug/L			3578521	3645273	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	456507	2	Standard
|	**Cr**	**52**	**10.658**	ug/L	0.237	2	18596	211542	0	Standard
|	**Cr**	**53**	**10.722**	ug/L	0.233	2	133	22865	0	Standard
⌊	**Mn**	**55**	**18.150**	ug/L	0.368	2	801	478593	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23223	0	KED
|	**Ni**	**60**	**0.231**	ug/L	0.033	14	86	321	10	KED
|	**Ni**	**62**	**0.288**	ug/L	0.049	17	16	64	13	KED
|	**Cu**	**63**	**4.304**	ug/L	0.056	1	67	13375	1	KED
|	**Cu**	**65**	**4.326**	ug/L	0.052	1	42	6646	0	KED
|	**Zn**	**66**	**1.728**	ug/L	0.105	6	67	772	5	KED
|	**Zn**	**67**	**1.558**	ug/L	0.144	9	11	120	8	KED
⌊	**As**	**75**	**0.082**	ug/L	0.020	23	6	23	17	KED
	Y	**89**		ug/L			230853	219292	1	Standard
	Kr	**83**		ug/L			65	55	29	Standard
⌈>	**In-1**	**115**		ug/L			6387	6323	3	KED
|	**Cd**	**111**	**0.000**	ug/L	0.017	83528	5	5	78	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.008	286	2	3	114	KED
⌈>	**Tb**	**159**		ug/L			540555	531283	4	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.002	13	256	913	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-45
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:36:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	70058	0	Standard
	Cl	**37**		ug/L			3578521	3637459	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	635528	1	Standard
|	**Cr**	**52**	**17.392**	ug/L	0.227	1	18596	465010	1	Standard
|	**Cr**	**53**	**17.623**	ug/L	0.483	2	133	52208	1	Standard
⌊	**Mn**	**55**	**160.671**	ug/L	2.032	1	801	5890866	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23859	0	KED
|	**Ni**	**60**	**16.352**	ug/L	0.237	1	86	17514	1	KED
|	**Ni**	**62**	**16.461**	ug/L	0.326	1	16	2892	2	KED
|	**Cu**	**63**	**33.327**	ug/L	0.431	1	67	105954	1	KED
|	**Cu**	**65**	**33.695**	ug/L	0.413	1	42	52909	1	KED
|	**Zn**	**66**	**86.654**	ug/L	0.617	0	67	36579	0	KED
|	**Zn**	**67**	**83.844**	ug/L	1.749	2	11	6045	1	KED
⌊	**As**	**75**	**8.322**	ug/L	0.033	0	6	1775	0	KED
	Y	**89**		ug/L			230853	521221	2	Standard
	Kr	**83**		ug/L			65	161	11	Standard
⌈>	**In-1**	**115**		ug/L			6387	6607	1	KED
|	**Cd**	**111**	**0.659**	ug/L	0.055	8	5	162	7	KED
⌊	**Cd**	**114**	**0.635**	ug/L	0.046	7	2	371	7	KED
⌈>	**Tb**	**159**		ug/L			540555	564800	3	Standard
⌊	**Pb**	**208**	**34.919**	ug/L	1.034	2	256	1638220	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-46
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:41:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59212	1	Standard
	Cl	**37**		ug/L			3578521	3584051	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	515810	1	Standard
|	**Cr**	**52**	**7.975**	ug/L	0.135	1	18596	183951	1	Standard
|	**Cr**	**53**	**8.019**	ug/L	0.009	0	133	19366	1	Standard
⌊	**Mn**	**55**	**95.320**	ug/L	1.296	1	801	2836800	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24090	2	KED
|	**Ni**	**60**	**7.584**	ug/L	0.251	3	86	8243	1	KED
|	**Ni**	**62**	**7.343**	ug/L	0.132	1	16	1311	1	KED
|	**Cu**	**63**	**8.569**	ug/L	0.255	2	67	27547	1	KED
|	**Cu**	**65**	**8.679**	ug/L	0.320	3	42	13786	2	KED
|	**Zn**	**66**	**21.916**	ug/L	0.540	2	67	9389	2	KED
|	**Zn**	**67**	**21.562**	ug/L	0.469	2	11	1578	4	KED
⌊	**As**	**75**	**1.961**	ug/L	0.094	4	6	427	3	KED
	Y	**89**		ug/L			230853	373430	1	Standard
	Kr	**83**		ug/L			65	94	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6941	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.009	41	5	10	20	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.002	11	2	13	8	KED
⌈>	**Tb**	**159**		ug/L			540555	549187	3	Standard
⌊	**Pb**	**208**	**1.732**	ug/L	0.047	2	256	79268	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-47
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:45:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	63904	3	Standard
	Cl	**37**		ug/L			3578521	3613111	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	550867	2	Standard
|	**Cr**	**52**	**10.244**	ug/L	0.277	2	18596	246160	0	Standard
|	**Cr**	**53**	**10.394**	ug/L	0.194	1	133	26755	1	Standard
⌊	**Mn**	**55**	**120.380**	ug/L	2.215	1	801	3825738	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23807	1	KED
|	**Ni**	**60**	**10.450**	ug/L	0.390	3	86	11195	3	KED
|	**Ni**	**62**	**10.383**	ug/L	0.366	3	16	1826	2	KED
|	**Cu**	**63**	**14.395**	ug/L	0.288	1	67	45696	1	KED
|	**Cu**	**65**	**14.764**	ug/L	0.348	2	42	23152	2	KED
|	**Zn**	**66**	**31.439**	ug/L	0.047	0	67	13283	1	KED
|	**Zn**	**67**	**32.124**	ug/L	1.023	3	11	2317	1	KED
⌊	**As**	**75**	**3.101**	ug/L	0.137	4	6	664	4	KED
	Y	**89**		ug/L			230853	436727	1	Standard
	Kr	**83**		ug/L			65	113	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6507	3	KED
|	**Cd**	**111**	**0.060**	ug/L	0.014	23	5	19	20	KED
⌊	**Cd**	**114**	**0.066**	ug/L	0.015	23	2	39	19	KED
⌈>	**Tb**	**159**		ug/L			540555	553912	2	Standard
⌊	**Pb**	**208**	**3.949**	ug/L	0.116	2	256	181927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:49:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34318	2	Standard
	Cl	**37**		ug/L			3578521	3409550	3	Standard
⎡>	**Sc**	**45**		ug/L			476701	432607	4	Standard
⎢	**Cr**	**52**	**0.009**	ug/L	0.018	193	18596	17031	3	Standard
⎢	**Cr**	**53**	**-0.008**	ug/L	0.005	58	133	105	12	Standard
⎣	**Mn**	**55**	**-0.005**	ug/L	0.002	37	801	601	11	Standard
⎡>	**Ge**	**72**		ug/L			24444	23146	2	KED
⎢	**Ni**	**60**	**-0.072**	ug/L	0.003	3	86	6	41	KED
⎢	**Ni**	**62**	**-0.055**	ug/L	0.006	11	16	6	17	KED
⎢	**Cu**	**63**	**-0.009**	ug/L	0.004	49	67	38	36	KED
⎢	**Cu**	**65**	**-0.010**	ug/L	0.005	50	42	25	31	KED
⎢	**Zn**	**66**	**-0.060**	ug/L	0.005	7	67	39	5	KED
⎢	**Zn**	**67**	**-0.056**	ug/L	0.055	99	11	6	56	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.002	277	6	6	7	KED
	Y	**89**		ug/L			230853	214375	3	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6502	0	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	29	5	1	50	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.002	3546	2	2	51	KED
⎡>	**Tb**	**159**		ug/L			540555	506379	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	58	256	203	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:54:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32517	1	Standard
	Cl	**37**		ug/L			3578521	3662022	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	446496	1	Standard
⎢	**Cr**	**52**	**49.851**	ug/L	0.660	1	18596	904026	2	Standard
⎢	**Cr**	**53**	**50.064**	ug/L	0.356	0	133	103994	0	Standard
⎣	**Mn**	**55**	**50.804**	ug/L	0.221	0	801	1309319	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**49.752**	ug/L	0.225	0	86	53223	0	KED
⎢	**Ni**	**62**	**48.525**	ug/L	0.989	2	16	8513	0	KED
⎢	**Cu**	**63**	**49.312**	ug/L	0.891	1	67	157066	2	KED
⎢	**Cu**	**65**	**49.737**	ug/L	0.837	1	42	78237	1	KED
⎢	**Zn**	**66**	**49.992**	ug/L	0.544	1	67	21175	2	KED
⎢	**Zn**	**67**	**48.552**	ug/L	1.196	2	11	3512	3	KED
⎣	**As**	**75**	**49.436**	ug/L	1.091	2	6	10538	1	KED
	Y	**89**		ug/L			230853	224268	1	Standard
	Kr	**83**		ug/L			65	50	44	Standard
⎡>	**In-1**	**115**		ug/L			6387	6358	2	KED
⎢	**Cd**	**111**	**51.283**	ug/L	1.073	2	5	11817	2	KED
⎣	**Cd**	**114**	**51.173**	ug/L	1.494	2	2	28630	2	KED
⎡>	**Tb**	**159**		ug/L			540555	530844	4	Standard
⎣	**Pb**	**208**	**50.179**	ug/L	1.775	3	256	2211516	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:01:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33265	2	Standard
	Cl	**37**		ug/L			3578521	3460889	4	Standard
⌈>	**Sc**	**45**		ug/L			476701	453529	3	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.017	118	18596	17427	2	Standard
|	**Cr**	**53**	**-0.006**	ug/L	0.004	61	133	114	9	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.000	18	801	695	4	Standard
⌈>	**Ge**	**72**		ug/L			24444	23194	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.010	10709	86	81	14	KED
|	**Ni**	**62**	**0.012**	ug/L	0.023	183	16	17	22	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.004	3024	67	64	20	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.006	101	42	31	27	KED
|	**Zn**	**66**	**0.013**	ug/L	0.011	83	67	69	6	KED
|	**Zn**	**67**	**-0.010**	ug/L	0.014	145	11	10	10	KED
⌊	**As**	**75**	**0.004**	ug/L	0.008	200	6	7	23	KED
	Y	**89**		ug/L			230853	220971	4	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6714	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.016	631	5	4	80	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.006	260	2	3	87	KED
⌈>	**Tb**	**159**		ug/L			540555	520970	4	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	221	256	240	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:06:45

DEL

WRONG SAMPLE

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	16821	75	Standard
	Cl	**37**		ug/L			3578521	1790505	63	Standard
⌈>	**Sc**	**45**		ug/L			476701	752041	100	Standard
|	**Cr**	**52**	**1.900**	ug/L	4.611	242	18596	6857	82	Standard
|	**Cr**	**53**	**0.768**	ug/L	1.396	181	133	86	42	Standard
⌊	**Mn**	**55**	**0.137**	ug/L	0.273	198	801	428	77	Standard
⌈>	**Ge**	**72**		ug/L			24444	3065	151	KED
|	**Ni**	**60**	**-0.074**	ug/L	0.009	11	86	1	173	KED
|	**Ni**	**62**	**1.496**	ug/L	1.898	126	16	5	21	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.006	33	67	3	173	KED
|	**Cu**	**65**	**0.105**	ug/L	0.133	126	42	5	43	KED
|	**Zn**	**66**	**0.498**	ug/L	0.792	158	67	4	24	KED
|	**Zn**	**67**	**0.924**	ug/L	1.679	181	11	2	114	KED
⌊	**As**	**75**	**0.663**	ug/L	0.755	113	6	3	37	KED
	Y	**89**		ug/L			230853	394957	96	Standard
	Kr	**83**		ug/L			65	22	28	Standard
⌈>	**In-1**	**115**		ug/L			6387	16359	33	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.003	21	5	4	61	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.001	238	2	5	35	KED
⌈>	**Tb**	**159**		ug/L			540555	963931	94	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.001	16	256	102	87	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:12:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41079	0	Standard
	Cl	**37**		ug/L			3578521	3520747	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	464742	3	Standard
|	**Cr**	**52**	**0.201**	ug/L	0.041	20	18596	21837	2	Standard
|	**Cr**	**53**	**0.167**	ug/L	0.023	13	133	491	12	Standard
⌊	**Mn**	**55**	**0.237**	ug/L	0.001	0	801	7134	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	25501	3	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.004	7	86	19	30	KED
|	**Ni**	**62**	**-0.044**	ug/L	0.023	52	16	8	44	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	9	67	126	4	KED
|	**Cu**	**65**	**0.016**	ug/L	0.009	54	42	71	24	KED
|	**Zn**	**66**	**0.268**	ug/L	0.062	23	67	190	11	KED
|	**Zn**	**67**	**0.152**	ug/L	0.131	86	11	23	41	KED
⌊	**As**	**75**	**0.005**	ug/L	0.016	298	6	8	41	KED
	Y	**89**		ug/L			230853	227722	3	Standard
	Kr	**83**		ug/L			65	51	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6664	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.002	17	5	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	206	2	3	78	KED
⌈>	**Tb**	**159**		ug/L			540555	530064	5	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	50	256	213	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:16:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39904	1	Standard
	Cl	**37**		ug/L			3578521	3458447	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	438870	1	Standard
|	**Cr**	**52**	**25.837**	ug/L	0.294	1	18596	468710	0	Standard
|	**Cr**	**53**	**25.575**	ug/L	0.569	2	133	52273	1	Standard
⌊	**Mn**	**55**	**26.545**	ug/L	0.560	2	801	672686	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23248	1	KED
|	**Ni**	**60**	**25.740**	ug/L	0.545	2	86	26816	2	KED
|	**Ni**	**62**	**25.194**	ug/L	0.463	1	16	4306	2	KED
|	**Cu**	**63**	**25.339**	ug/L	0.372	1	67	78501	0	KED
|	**Cu**	**65**	**25.260**	ug/L	0.417	1	42	38652	0	KED
|	**Zn**	**66**	**83.867**	ug/L	0.715	0	67	34497	1	KED
|	**Zn**	**67**	**76.190**	ug/L	2.598	3	11	5352	2	KED
⌊	**As**	**75**	**25.305**	ug/L	0.503	1	6	5247	0	KED
	Y	**89**		ug/L			230853	217213	1	Standard
	Kr	**83**		ug/L			65	52	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6373	1	KED
|	**Cd**	**111**	**25.446**	ug/L	0.445	1	5	5879	1	KED
⌊	**Cd**	**114**	**25.308**	ug/L	0.126	0	2	14197	1	KED
⌈>	**Tb**	**159**		ug/L			540555	512477	3	Standard
⌊	**Pb**	**208**	**26.331**	ug/L	1.081	4	256	1120439	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:21:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	60244	1	Standard
	Cl	**37**		ug/L			3578521	3656693	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	594488	1	Standard
|	**Cr**	**52**	**17.337**	ug/L	0.394	2	18596	433600	0	Standard
|	**Cr**	**53**	**17.472**	ug/L	0.262	1	133	48424	0	Standard
⌊	**Mn**	**55**	**134.485**	ug/L	2.769	2	801	4612397	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23792	1	KED
|	**Ni**	**60**	**13.835**	ug/L	0.453	3	86	14785	2	KED
|	**Ni**	**62**	**14.007**	ug/L	0.205	1	16	2457	2	KED
|	**Cu**	**63**	**38.392**	ug/L	0.222	0	67	121698	1	KED
|	**Cu**	**65**	**38.461**	ug/L	0.833	2	42	60204	0	KED
|	**Zn**	**66**	**86.178**	ug/L	0.125	0	67	36275	1	KED
|	**Zn**	**67**	**80.688**	ug/L	1.246	1	11	5802	2	KED
⌊	**As**	**75**	**10.154**	ug/L	0.096	0	6	2159	2	KED
	Y	**89**		ug/L			230853	460643	2	Standard
	Kr	**83**		ug/L			65	139	27	Standard
⌈>	**In-1**	**115**		ug/L			6387	6546	3	KED
|	**Cd**	**111**	**0.721**	ug/L	0.068	9	5	175	6	KED
⌊	**Cd**	**114**	**0.718**	ug/L	0.013	1	2	416	4	KED
⌈>	**Tb**	**159**		ug/L			540555	548464	2	Standard
⌊	**Pb**	**208**	**35.527**	ug/L	0.786	2	256	1618886	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:25:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	56919	0	Standard
	Cl	37		ug/L			3578521	3556256	1	Standard
>	Sc	45		ug/L			476701	601764	2	Standard
	Cr	52	**16.599**	ug/L	0.229	1	18596	421249	1	Standard
	Cr	53	**16.552**	ug/L	0.285	1	133	46446	2	Standard
	Mn	55	**133.471**	ug/L	2.197	1	801	4633196	1	Standard
>	Ge	72		ug/L			24444	22860	0	KED
	Ni	60	**13.374**	ug/L	0.223	1	86	13738	1	KED
	Ni	62	**13.345**	ug/L	0.677	5	16	2249	4	KED
	Cu	63	**34.735**	ug/L	0.513	1	67	105798	1	KED
	Cu	65	**35.323**	ug/L	0.943	2	42	53134	2	KED
	Zn	66	**86.650**	ug/L	0.283	0	67	35045	0	KED
	Zn	67	**82.066**	ug/L	1.598	1	11	5669	1	KED
	As	75	**10.165**	ug/L	0.128	1	6	2076	1	KED
	Y	89		ug/L			230853	478052	1	Standard
	Kr	83		ug/L			65	148	12	Standard
>	In-1	115		ug/L			6387	6232	1	KED
	Cd	111	**0.488**	ug/L	0.053	10	5	115	10	KED
	Cd	114	**0.490**	ug/L	0.075	15	2	270	14	KED
>	Tb	159		ug/L			540555	549101	3	Standard
	Pb	208	**38.274**	ug/L	1.023	2	256	1745600	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:29:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	63292	1	Standard
	Cl	**37**		ug/L			3578521	3578320	2	Standard
>	**Sc**	**45**		ug/L			476701	623910	2	Standard
	Cr	**52**	**14.592**	ug/L	0.162	1	18596	386910	2	Standard
	Cr	**53**	**14.748**	ug/L	0.305	2	133	42917	0	Standard
	Mn	**55**	**138.686**	ug/L	2.155	1	801	4991891	1	Standard
>	**Ge**	**72**		ug/L			24444	23056	0	KED
	Ni	**60**	**13.735**	ug/L	0.256	1	86	14228	1	KED
	Ni	**62**	**13.935**	ug/L	0.442	3	16	2369	3	KED
	Cu	**63**	**36.729**	ug/L	0.276	0	67	112834	0	KED
	Cu	**65**	**36.835**	ug/L	1.267	3	42	55888	3	KED
	Zn	**66**	**87.180**	ug/L	2.546	2	67	35563	3	KED
	Zn	**67**	**82.657**	ug/L	2.237	2	11	5759	2	KED
	As	**75**	**9.091**	ug/L	0.111	1	6	1874	1	KED
	Y	**89**		ug/L			230853	499088	0	Standard
	Kr	**83**		ug/L			65	149	17	Standard
>	**In-1**	**115**		ug/L			6387	6372	1	KED
	Cd	**111**	**0.520**	ug/L	0.032	6	5	125	6	KED
	Cd	**114**	**0.490**	ug/L	0.020	4	2	276	2	KED
>	**Tb**	**159**		ug/L			540555	554006	3	Standard
	Pb	**208**	**33.375**	ug/L	1.324	3	256	1535253	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:34:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59050	2	Standard
	Cl	**37**		ug/L			3578521	3640863	0	Standard
>	**Sc**	**45**		ug/L			476701	618718	2	Standard
	Cr	**52**	**15.400**	ug/L	0.311	2	18596	403518	1	Standard
	Cr	**53**	**15.761**	ug/L	0.457	2	133	45465	1	Standard
	Mn	**55**	**139.850**	ug/L	4.418	3	801	4990014	1	Standard
>	**Ge**	**72**		ug/L			24444	23532	1	KED
	Ni	**60**	**13.510**	ug/L	0.180	1	86	14285	1	KED
	Ni	**62**	**13.871**	ug/L	0.389	2	16	2407	3	KED
	Cu	**63**	**34.436**	ug/L	0.668	1	67	107959	1	KED
	Cu	**65**	**34.980**	ug/L	0.480	1	42	54164	0	KED
	Zn	**66**	**83.494**	ug/L	1.475	1	67	34760	1	KED
	Zn	**67**	**76.965**	ug/L	1.599	2	11	5473	1	KED
	As	**75**	**8.742**	ug/L	0.335	3	6	1839	4	KED
	Y	**89**		ug/L			230853	507741	1	Standard
	Kr	**83**		ug/L			65	184	20	Standard
>	**In-1**	**115**		ug/L			6387	6429	0	KED
	Cd	**111**	**0.432**	ug/L	0.012	2	5	105	2	KED
	Cd	**114**	**0.447**	ug/L	0.038	8	2	255	8	KED
>	**Tb**	**159**		ug/L			540555	558215	3	Standard
	Pb	**208**	**35.267**	ug/L	1.067	3	256	1634976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:38:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	56543	1	Standard
	Cl	**37**		ug/L			3578521	3632245	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	587014	2	Standard
|	**Cr**	**52**	**16.797**	ug/L	0.373	2	18596	415513	0	Standard
|	**Cr**	**53**	**16.881**	ug/L	0.045	0	133	46213	2	Standard
⌊	**Mn**	**55**	**130.264**	ug/L	1.249	0	801	4411714	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23738	2	KED
|	**Ni**	**60**	**14.560**	ug/L	0.307	2	86	15522	2	KED
|	**Ni**	**62**	**14.274**	ug/L	0.524	3	16	2497	3	KED
|	**Cu**	**63**	**30.243**	ug/L	0.104	0	67	95660	1	KED
|	**Cu**	**65**	**31.315**	ug/L	0.401	1	42	48915	1	KED
|	**Zn**	**66**	**82.033**	ug/L	0.978	1	67	34451	1	KED
|	**Zn**	**67**	**76.450**	ug/L	3.827	5	11	5482	3	KED
⌊	**As**	**75**	**10.489**	ug/L	0.043	0	6	2225	1	KED
	Y	**89**		ug/L			230853	461535	0	Standard
	Kr	**83**		ug/L			65	128	0	Standard
⌈>	**In-1**	**115**		ug/L			6387	6654	2	KED
|	**Cd**	**111**	**1.720**	ug/L	0.065	3	5	419	2	KED
⌊	**Cd**	**114**	**1.865**	ug/L	0.057	3	2	1094	4	KED
⌈>	**Tb**	**159**		ug/L			540555	554053	3	Standard
⌊	**Pb**	**208**	**36.639**	ug/L	1.103	3	256	1685881	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:43:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	65154	1	Standard
	Cl	**37**		ug/L			3578521	3626843	1	Standard
>	**Sc**	**45**		ug/L			476701	629046	1	Standard
	Cr	**52**	**20.117**	ug/L	0.178	0	18596	528531	0	Standard
	Cr	**53**	**20.235**	ug/L	0.204	1	133	59321	0	Standard
	Mn	**55**	**142.259**	ug/L	0.858	0	801	5163724	1	Standard
>	**Ge**	**72**		ug/L			24444	23518	1	KED
	Ni	**60**	**13.818**	ug/L	0.137	0	86	14599	0	KED
	Ni	**62**	**14.464**	ug/L	0.101	0	16	2507	1	KED
	Cu	**63**	**35.520**	ug/L	0.472	1	67	111290	0	KED
	Cu	**65**	**35.309**	ug/L	0.310	0	42	54653	2	KED
	Zn	**66**	**122.246**	ug/L	2.120	1	67	50841	2	KED
	Zn	**67**	**114.573**	ug/L	2.982	2	11	8136	1	KED
	As	**75**	**16.031**	ug/L	0.085	0	6	3366	1	KED
	Y	**89**		ug/L			230853	503262	2	Standard
	Kr	**83**		ug/L			65	146	6	Standard
>	**In-1**	**115**		ug/L			6387	6335	1	KED
	Cd	**111**	**0.538**	ug/L	0.042	7	5	128	7	KED
	Cd	**114**	**0.500**	ug/L	0.073	14	2	281	15	KED
>	**Tb**	**159**		ug/L			540555	577652	2	Standard
	Pb	**208**	**24.104**	ug/L	0.455	1	256	1157040	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:47:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	64618	3	Standard
	Cl	**37**		ug/L			3578521	3633882	2	Standard
>	**Sc**	**45**		ug/L			476701	632674	2	Standard
	Cr	**52**	**16.277**	ug/L	0.479	2	18596	434662	0	Standard
	Cr	**53**	**16.211**	ug/L	0.494	3	133	47818	1	Standard
	Mn	**55**	**138.679**	ug/L	2.152	1	801	5061415	0	Standard
>	**Ge**	**72**		ug/L			24444	24375	2	KED
	Ni	**60**	**14.954**	ug/L	0.656	4	86	16358	2	KED
	Ni	**62**	**14.942**	ug/L	1.029	6	16	2682	5	KED
	Cu	**63**	**26.292**	ug/L	0.156	0	67	85399	1	KED
	Cu	**65**	**26.647**	ug/L	0.260	0	42	42747	1	KED
	Zn	**66**	**138.610**	ug/L	2.611	1	67	59718	1	KED
	Zn	**67**	**127.419**	ug/L	2.032	1	11	9377	0	KED
	As	**75**	**17.583**	ug/L	0.054	0	6	3825	2	KED
	Y	**89**		ug/L			230853	521900	1	Standard
	Kr	**83**		ug/L			65	155	22	Standard
>	**In-1**	**115**		ug/L			6387	6306	2	KED
	Cd	**111**	**0.325**	ug/L	0.047	14	5	79	14	KED
	Cd	**114**	**0.332**	ug/L	0.049	14	2	186	14	KED
>	**Tb**	**159**		ug/L			540555	576562	3	Standard
	Pb	**208**	**12.845**	ug/L	0.398	3	256	615287	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:54:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32638	1	Standard
	Cl	**37**		ug/L			3578521	3701223	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	444103	3	Standard
|	**Cr**	**52**	**49.924**	ug/L	1.716	3	18596	899713	1	Standard
|	**Cr**	**53**	**49.732**	ug/L	1.785	3	133	102672	1	Standard
⌊	**Mn**	**55**	**50.971**	ug/L	1.393	2	801	1305748	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23058	2	KED
|	**Ni**	**60**	**51.823**	ug/L	1.036	1	86	53450	1	KED
|	**Ni**	**62**	**49.941**	ug/L	1.151	2	16	8447	1	KED
|	**Cu**	**63**	**49.863**	ug/L	0.950	1	67	153141	2	KED
|	**Cu**	**65**	**51.087**	ug/L	0.316	0	42	77512	3	KED
|	**Zn**	**66**	**51.632**	ug/L	1.628	3	67	21081	2	KED
|	**Zn**	**67**	**50.378**	ug/L	2.106	4	11	3512	2	KED
⌊	**As**	**75**	**50.278**	ug/L	1.045	2	6	10333	0	KED
	Y	**89**		ug/L			230853	218382	0	Standard
	Kr	**83**		ug/L			65	62	10	Standard
⌈>	**In-1**	**115**		ug/L			6387	6314	2	KED
|	**Cd**	**111**	**48.776**	ug/L	0.388	0	5	11161	1	KED
⌊	**Cd**	**114**	**49.344**	ug/L	1.214	2	2	27415	1	KED
⌈>	**Tb**	**159**		ug/L			540555	525081	3	Standard
⌊	**Pb**	**208**	**49.848**	ug/L	1.346	2	256	2174207	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32926	5	Standard
	Cl	**37**		ug/L			3578521	3501742	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	432263	1	Standard
⎢	**Cr**	**52**	**0.012**	ug/L	0.020	163	18596	17078	2	Standard
⎢	**Cr**	**53**	**-0.003**	ug/L	0.006	166	133	113	9	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.002	200	801	704	5	Standard
⎡>	**Ge**	**72**		ug/L			24444	22126	3	KED
⎢	**Ni**	**60**	**0.004**	ug/L	0.002	42	86	82	1	KED
⎢	**Ni**	**62**	**0.025**	ug/L	0.004	15	16	19	0	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.001	44	67	52	11	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.006	62	42	25	35	KED
⎢	**Zn**	**66**	**0.052**	ug/L	0.009	17	67	81	2	KED
⎢	**Zn**	**67**	**0.008**	ug/L	0.049	623	11	10	26	KED
⎣	**As**	**75**	**0.007**	ug/L	0.008	111	6	7	20	KED
	Y	**89**		ug/L			230853	214650	1	Standard
	Kr	**83**		ug/L			65	48	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6124	1	KED
⎢	**Cd**	**111**	**-0.013**	ug/L	0.007	55	5	1	86	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.004	189	2	1	205	KED
⎡>	**Tb**	**159**		ug/L			540555	503661	3	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.001	185	256	267	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:09:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28744	1	Standard
	Cl	**37**		ug/L				3416101	0	Standard
⌈>	**Sc**	**45**		ug/L				429622	3	Standard
|	**Cr**	**52**		ug/L				16425	4	Standard
|	**Cr**	**53**		ug/L				102	7	Standard
⌊	**Mn**	**55**		ug/L				567	2	Standard
⌈>	**Ge**	**72**		ug/L				22652	1	KED
|	**Ni**	**60**		ug/L				20	14	KED
|	**Ni**	**62**		ug/L				7	43	KED
|	**Cu**	**63**		ug/L				30	27	KED
|	**Cu**	**65**		ug/L				24	16	KED
|	**Zn**	**66**		ug/L				40	9	KED
|	**Zn**	**67**		ug/L				3	50	KED
⌊	**As**	**75**		ug/L				5	28	KED
	Y	**89**		ug/L				208501	3	Standard
	Kr	**83**		ug/L				52	5	Standard
⌈>	**In-1**	**115**		ug/L				6222	2	KED
|	**Cd**	**111**		ug/L				2	65	KED
⌊	**Cd**	**114**		ug/L				6	56	KED
⌈>	**Tb**	**159**		ug/L				498579	3	Standard
⌊	**Pb**	**208**		ug/L				109	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:13:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29859	2	Standard
	Cl	**37**		ug/L			3416101	3661261	2	Standard
⎡>	**Sc**	**45**		ug/L			429622	435471	0	Standard
⎢	**Cr**	**52**	**50.114**	ug/L	0.158	0	16425	885897	1	Standard
⎢	**Cr**	**53**	**49.291**	ug/L	0.496	1	102	99854	1	Standard
⎣	**Mn**	**55**	**50.383**	ug/L	0.864	1	567	1266400	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	22408	1	KED
⎢	**Ni**	**60**	**49.499**	ug/L	0.077	0	20	49572	0	KED
⎢	**Ni**	**62**	**48.829**	ug/L	0.938	1	7	8023	2	KED
⎢	**Cu**	**63**	**49.002**	ug/L	0.811	1	30	146247	1	KED
⎢	**Cu**	**65**	**49.258**	ug/L	0.800	1	24	72600	0	KED
⎢	**Zn**	**66**	**49.366**	ug/L	1.218	2	40	19573	1	KED
⎢	**Zn**	**67**	**48.417**	ug/L	1.239	2	3	3275	2	KED
⎣	**As**	**75**	**49.357**	ug/L	0.162	0	5	9861	0	KED
	Y	**89**		ug/L			208501	213698	2	Standard
	Kr	**83**		ug/L			52	64	25	Standard
⎡>	**In-1**	**115**		ug/L			6222	6210	2	KED
⎢	**Cd**	**111**	**49.427**	ug/L	1.386	2	2	11118	0	KED
⎣	**Cd**	**114**	**49.346**	ug/L	0.471	0	6	26977	2	KED
⎡>	**Tb**	**159**		ug/L			498579	514046	3	Standard
⎣	**Pb**	**208**	**49.918**	ug/L	1.570	3	109	2130878	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:20:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29334	2	Standard
	Cl	**37**		ug/L			3416101	3436340	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	444026	1	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.022	261	16425	17127	3	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.007	296	102	100	15	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	35	567	559	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	22579	4	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.003	24895	20	20	19	KED
|	**Ni**	**62**	**0.017**	ug/L	0.055	322	7	10	84	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	88	30	36	15	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.003	92	24	18	26	KED
|	**Zn**	**66**	**0.003**	ug/L	0.025	858	40	41	27	KED
|	**Zn**	**67**	**0.020**	ug/L	0.045	226	3	5	57	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	102	5	7	20	KED
	Y	**89**		ug/L			208501	221357	1	Standard
	Kr	**83**		ug/L			52	46	26	Standard
⌈>	**In-1**	**115**		ug/L			6222	6373	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	271	2	1	50	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	27	6	3	37	KED
⌈>	**Tb**	**159**		ug/L			498579	514436	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	254	109	118	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:29:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	56516	2	Standard
	Cl	37		ug/L			3416101	3553139	0	Standard
>	Sc	45		ug/L			429622	575188	3	Standard
	Cr	52	15.845	ug/L	0.536	3	16425	384713	1	Standard
	Cr	53	16.068	ug/L	0.410	2	102	43056	1	Standard
	Mn	55	125.453	ug/L	2.425	1	567	4162523	3	Standard
>	Ge	72		ug/L			22652	22372	2	KED
	Ni	60	15.044	ug/L	0.432	2	20	15051	1	KED
	Ni	62	15.287	ug/L	0.601	3	7	2512	4	KED
	Cu	63	28.458	ug/L	0.361	1	30	84797	0	KED
	Cu	65	28.531	ug/L	1.116	3	24	41976	2	KED
	Zn	66	68.994	ug/L	1.609	2	40	27293	1	KED
	Zn	67	67.023	ug/L	0.916	1	3	4525	0	KED
	As	75	7.850	ug/L	0.270	3	5	1570	1	KED
	Y	89		ug/L			208501	443638	1	Standard
	Kr	83		ug/L			52	119	22	Standard
>	In-1	115		ug/L			6222	6174	3	KED
	Cd	111	0.381	ug/L	0.021	5	2	87	2	KED
	Cd	114	0.360	ug/L	0.011	2	6	202	5	KED
>	Tb	159		ug/L			498579	538315	3	Standard
	Pb	208	23.369	ug/L	0.578	2	109	1044851	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:33:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	66731	2	Standard
	Cl	37		ug/L			3416101	3687017	2	Standard
>	Sc	45		ug/L			429622	599474	1	Standard
	Cr	52	15.661	ug/L	0.207	1	16425	396920	3	Standard
	Cr	53	15.614	ug/L	0.046	0	102	43639	2	Standard
	Mn	55	131.560	ug/L	1.987	1	567	4550041	1	Standard
>	Ge	72		ug/L			22652	22468	1	KED
	Ni	60	15.446	ug/L	0.587	3	20	15520	3	KED
	Ni	62	15.490	ug/L	0.213	1	7	2557	2	KED
	Cu	63	27.634	ug/L	0.583	2	30	82700	1	KED
	Cu	65	28.322	ug/L	0.858	3	24	41865	2	KED
	Zn	66	69.905	ug/L	1.277	1	40	27776	1	KED
	Zn	67	63.629	ug/L	1.285	2	3	4316	2	KED
	As	75	7.691	ug/L	0.234	3	5	1545	2	KED
	Y	89		ug/L			208501	474080	1	Standard
	Kr	83		ug/L			52	147	12	Standard
>	In-1	115		ug/L			6222	6146	3	KED
	Cd	111	0.309	ug/L	0.030	9	2	71	11	KED
	Cd	114	0.262	ug/L	0.029	10	6	148	10	KED
>	Tb	159		ug/L			498579	568919	3	Standard
	Pb	208	23.536	ug/L	1.045	4	109	1111642	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:38:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49621	3	Standard
	Cl	37		ug/L			3416101	3573766	2	Standard
>	Sc	45		ug/L			429622	605872	0	Standard
	Cr	52	37.753	ug/L	0.366	0	16425	934225	1	Standard
	Cr	53	38.300	ug/L	0.526	1	102	107979	1	Standard
	Mn	55	151.129	ug/L	3.838	2	567	5283429	2	Standard
>	Ge	72		ug/L			22652	23482	2	KED
	Ni	60	42.936	ug/L	0.663	1	20	45072	3	KED
	Ni	62	40.852	ug/L	0.468	1	7	7034	2	KED
	Cu	63	53.652	ug/L	1.545	2	30	167737	0	KED
	Cu	65	53.211	ug/L	0.716	1	24	82181	1	KED
	Zn	66	149.858	ug/L	1.793	1	40	62182	1	KED
	Zn	67	141.073	ug/L	2.418	1	3	9993	0	KED
	As	75	32.212	ug/L	0.648	2	5	6745	1	KED
	Y	89		ug/L			208501	480323	1	Standard
	Kr	83		ug/L			52	147	8	Standard
>	In-1	115		ug/L			6222	6528	3	KED
	Cd	111	25.322	ug/L	0.788	3	2	5987	0	KED
	Cd	114	25.581	ug/L	0.542	2	6	14699	1	KED
>	Tb	159		ug/L			498579	562590	3	Standard
	Pb	208	52.086	ug/L	1.736	3	109	2433264	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:42:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	51210	2	Standard
	Cl	37		ug/L			3416101	3553843	2	Standard
>	Sc	45		ug/L			429622	572917	0	Standard
	Cr	52	36.222	ug/L	0.135	0	16425	848456	0	Standard
	Cr	53	35.920	ug/L	0.617	1	102	95764	1	Standard
	Mn	55	146.009	ug/L	3.613	2	567	4825927	1	Standard
>	Ge	72		ug/L			22652	22850	0	KED
	Ni	60	41.240	ug/L	0.070	0	20	42118	0	KED
	Ni	62	40.282	ug/L	0.358	0	7	6750	1	KED
	Cu	63	52.781	ug/L	0.999	1	30	160615	1	KED
	Cu	65	52.457	ug/L	0.655	1	24	78841	0	KED
	Zn	66	144.558	ug/L	5.010	3	40	58366	2	KED
	Zn	67	134.641	ug/L	2.230	1	3	9283	1	KED
	As	75	32.365	ug/L	0.123	0	5	6595	0	KED
	Y	89		ug/L			208501	441470	1	Standard
	Kr	83		ug/L			52	144	9	Standard
>	In-1	115		ug/L			6222	6163	1	KED
	Cd	111	25.041	ug/L	0.665	2	2	5592	1	KED
	Cd	114	25.434	ug/L	0.431	1	6	13801	0	KED
>	Tb	159		ug/L			498579	528633	1	Standard
	Pb	208	45.923	ug/L	0.635	1	109	2017204	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:47:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	62256	1	Standard
	Cl	**37**		ug/L			3416101	3593992	1	Standard
>	**Sc**	**45**		ug/L			429622	604297	1	Standard
	Cr	**52**	**35.146**	ug/L	0.497	1	16425	868970	0	Standard
	Cr	**53**	**34.853**	ug/L	0.689	1	102	98000	0	Standard
	Mn	**55**	**145.248**	ug/L	3.608	2	567	5063387	1	Standard
>	**Ge**	**72**		ug/L			22652	22724	0	KED
	Ni	**60**	**39.759**	ug/L	0.861	2	20	40380	1	KED
	Ni	**62**	**39.478**	ug/L	0.441	1	7	6578	0	KED
	Cu	**63**	**53.091**	ug/L	0.912	1	30	160675	1	KED
	Cu	**65**	**52.275**	ug/L	0.887	1	24	78136	1	KED
	Zn	**66**	**143.214**	ug/L	4.054	2	40	57509	2	KED
	Zn	**67**	**134.466**	ug/L	1.527	1	3	9220	0	KED
	As	**75**	**31.882**	ug/L	0.181	0	5	6461	0	KED
	Y	**89**		ug/L			208501	460324	3	Standard
	Kr	**83**		ug/L			52	155	12	Standard
>	**In-1**	**115**		ug/L			6222	6167	2	KED
	Cd	**111**	**24.963**	ug/L	0.560	2	2	5577	0	KED
	Cd	**114**	**25.236**	ug/L	0.413	1	6	13700	0	KED
>	**Tb**	**159**		ug/L			498579	559426	2	Standard
	Pb	**208**	**46.822**	ug/L	1.181	2	109	2175996	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	45749	1	Standard
	Cl	37		ug/L			3416101	3498496	0	Standard
>	Sc	45		ug/L			429622	651206	3	Standard
	Cr	52	18.755	ug/L	0.271	1	16425	511211	2	Standard
	Cr	53	18.982	ug/L	0.326	1	102	57575	2	Standard
	Mn	55	240.141	ug/L	7.543	3	567	9016365	1	Standard
>	Ge	72		ug/L			22652	22764	1	KED
	Ni	60	18.758	ug/L	0.351	1	20	19093	0	KED
	Ni	62	18.914	ug/L	0.488	2	7	3160	2	KED
	Cu	63	125.257	ug/L	1.724	1	30	379693	1	KED
	Cu	65	124.296	ug/L	1.123	0	24	186099	2	KED
	Zn	66	156.708	ug/L	4.505	2	40	63026	2	KED
	Zn	67	146.245	ug/L	4.366	2	3	10042	1	KED
	As	75	3.481	ug/L	0.084	2	5	711	0	KED
	Y	89		ug/L			208501	562581	0	Standard
	Kr	83		ug/L			52	188	10	Standard
>	In-1	115		ug/L			6222	6563	1	KED
	Cd	111	0.279	ug/L	0.008	2	2	68	2	KED
	Cd	114	0.244	ug/L	0.050	20	6	148	18	KED
>	Tb	159		ug/L			498579	560464	4	Standard
	Pb	208	46.637	ug/L	1.465	3	109	2170223	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	40393	0	Standard
	Cl	37		ug/L			3416101	3485697	1	Standard
>	Sc	45		ug/L			429622	622694	3	Standard
	Cr	52	12.029	ug/L	0.336	2	16425	321953	0	Standard
	Cr	53	12.127	ug/L	0.204	1	102	35226	1	Standard
	Mn	55	175.195	ug/L	2.895	1	567	6291969	1	Standard
>	Ge	72		ug/L			22652	22202	1	KED
	Ni	60	19.391	ug/L	0.629	3	20	19250	2	KED
	Ni	62	19.390	ug/L	0.707	3	7	3160	3	KED
	Cu	63	20.741	ug/L	0.344	1	30	61341	0	KED
	Cu	65	20.499	ug/L	0.671	3	24	29943	2	KED
	Zn	66	50.672	ug/L	0.477	0	40	19908	1	KED
	Zn	67	56.914	ug/L	2.087	3	3	3814	3	KED
	As	75	2.726	ug/L	0.144	5	5	544	4	KED
	Y	89		ug/L			208501	544333	4	Standard
	Kr	83		ug/L			52	180	8	Standard
>	In-1	115		ug/L			6222	6420	3	KED
	Cd	111	0.060	ug/L	0.009	15	2	16	15	KED
	Cd	114	0.068	ug/L	0.002	3	6	45	2	KED
>	Tb	159		ug/L			498579	564914	4	Standard
	Pb	208	5.801	ug/L	0.211	3	109	272205	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38378	4	Standard
	Cl	37		ug/L			3416101	3497347	0	Standard
>	Sc	45		ug/L			429622	587945	5	Standard
	Cr	52	11.106	ug/L	0.145	1	16425	282483	4	Standard
	Cr	53	11.278	ug/L	0.136	1	102	30945	4	Standard
	Mn	55	184.428	ug/L	1.446	0	567	6255542	4	Standard
>	Ge	72		ug/L			22652	23117	1	KED
	Ni	60	19.800	ug/L	0.357	1	20	20466	0	KED
	Ni	62	18.886	ug/L	0.325	1	7	3205	1	KED
	Cu	63	14.566	ug/L	0.200	1	30	44865	0	KED
	Cu	65	14.840	ug/L	0.327	2	24	22582	1	KED
	Zn	66	42.893	ug/L	0.275	0	40	17552	0	KED
	Zn	67	47.729	ug/L	1.499	3	3	3331	3	KED
	As	75	1.773	ug/L	0.138	7	5	371	6	KED
	Y	89		ug/L			208501	507399	5	Standard
	Kr	83		ug/L			52	130	4	Standard
>	In-1	115		ug/L			6222	6403	1	KED
	Cd	111	0.033	ug/L	0.005	14	2	9	11	KED
	Cd	114	0.036	ug/L	0.014	38	6	27	26	KED
>	Tb	159		ug/L			498579	554384	7	Standard
	Pb	208	2.503	ug/L	0.143	5	109	115104	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:06:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38069	0	Standard
	Cl	37		ug/L			3416101	3499645	1	Standard
>	Sc	45		ug/L			429622	587504	0	Standard
	Cr	52	10.627	ug/L	0.165	1	16425	271110	0	Standard
	Cr	53	10.796	ug/L	0.062	0	102	29614	1	Standard
	Mn	55	193.924	ug/L	1.395	0	567	6573200	0	Standard
>	Ge	72		ug/L			22652	23355	1	KED
	Ni	60	17.849	ug/L	0.903	5	20	18638	4	KED
	Ni	62	17.934	ug/L	1.118	6	7	3073	4	KED
	Cu	63	15.555	ug/L	0.558	3	30	48397	2	KED
	Cu	65	15.709	ug/L	0.420	2	24	24146	1	KED
	Zn	66	41.452	ug/L	1.634	3	40	17132	2	KED
	Zn	67	49.096	ug/L	1.766	3	3	3461	2	KED
	As	75	1.882	ug/L	0.019	1	5	397	2	KED
	Y	89		ug/L			208501	516913	1	Standard
	Kr	83		ug/L			52	130	16	Standard
>	In-1	115		ug/L			6222	6347	0	KED
	Cd	111	0.058	ug/L	0.023	39	2	15	33	KED
	Cd	114	0.030	ug/L	0.012	39	6	23	27	KED
>	Tb	159		ug/L			498579	547977	2	Standard
	Pb	208	2.582	ug/L	0.092	3	109	117635	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:10:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38499	0	Standard
	Cl	37		ug/L			3416101	3436714	2	Standard
>	Sc	45		ug/L			429622	590895	2	Standard
	Cr	52	15.120	ug/L	0.334	2	16425	378345	1	Standard
	Cr	53	15.430	ug/L	0.338	2	102	42491	0	Standard
	Mn	55	205.866	ug/L	6.296	3	567	7014591	0	Standard
>	Ge	72		ug/L			22652	22189	1	KED
	Ni	60	22.496	ug/L	0.436	1	20	22319	2	KED
	Ni	62	22.373	ug/L	0.156	0	7	3643	0	KED
	Cu	63	18.515	ug/L	0.284	1	30	54732	0	KED
	Cu	65	19.133	ug/L	0.416	2	24	27941	2	KED
	Zn	66	44.452	ug/L	0.524	1	40	17460	2	KED
	Zn	67	51.710	ug/L	1.353	2	3	3465	3	KED
	As	75	2.303	ug/L	0.131	5	5	460	5	KED
	Y	89		ug/L			208501	595323	0	Standard
	Kr	83		ug/L			52	174	9	Standard
>	In-1	115		ug/L			6222	6152	1	KED
	Cd	111	0.066	ug/L	0.004	5	2	16	3	KED
	Cd	114	0.053	ug/L	0.008	14	6	35	9	KED
>	Tb	159		ug/L			498579	541074	2	Standard
	Pb	208	2.982	ug/L	0.051	1	109	134137	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:17:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31168	4	Standard
	Cl	**37**		ug/L			3416101	3666992	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	434741	1	Standard
|	**Cr**	**52**	**49.633**	ug/L	0.354	0	16425	876078	1	Standard
|	**Cr**	**53**	**48.647**	ug/L	0.128	0	102	98379	0	Standard
⌊	**Mn**	**55**	**50.118**	ug/L	0.284	0	567	1257482	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	21515	0	KED
|	**Ni**	**60**	**50.869**	ug/L	1.612	3	20	48910	2	KED
|	**Ni**	**62**	**49.716**	ug/L	0.488	0	7	7842	0	KED
|	**Cu**	**63**	**49.663**	ug/L	0.771	1	30	142306	1	KED
|	**Cu**	**65**	**50.203**	ug/L	0.431	0	24	71050	0	KED
|	**Zn**	**66**	**50.312**	ug/L	1.544	3	40	19152	2	KED
|	**Zn**	**67**	**50.148**	ug/L	1.547	3	3	3257	2	KED
⌊	**As**	**75**	**50.676**	ug/L	1.209	2	5	9721	2	KED
	Y	**89**		ug/L			208501	214811	0	Standard
	Kr	**83**		ug/L			52	42	2	Standard
⌈>	**In-1**	**115**		ug/L			6222	5999	0	KED
|	**Cd**	**111**	**50.210**	ug/L	1.210	2	2	10913	1	KED
⌊	**Cd**	**114**	**49.810**	ug/L	0.928	1	6	26302	1	KED
⌈>	**Tb**	**159**		ug/L			498579	506574	4	Standard
⌊	**Pb**	**208**	**50.439**	ug/L	1.660	3	109	2121582	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28231	2	Standard
	Cl	**37**		ug/L			3416101	3328721	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425027	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.013	172	16425	16378	2	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.001	7	102	85	2	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	60	567	630	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	21828	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	54	20	13	20	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.013	526	7	6	31	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	73	30	39	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.005	91	24	15	45	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.017	81	40	31	23	KED
|	**Zn**	**67**	**0.050**	ug/L	0.043	86	3	6	41	KED
⌊	**As**	**75**	**0.003**	ug/L	0.009	333	5	6	27	KED
	Y	**89**		ug/L			208501	214115	4	Standard
	Kr	**83**		ug/L			52	46	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	6043	3	KED
|	**Cd**	**111**	**0.009**	ug/L	0.007	80	2	4	35	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	31	6	3	36	KED
⌈>	**Tb**	**159**		ug/L			498579	492267	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	84	109	121	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 21:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32769	3	Standard
	Cl	**37**		ug/L			3416101	3360007	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	460983	0	Standard
⎢	**Cr**	**52**	**1.583**	ug/L	0.060	3	16425	46696	2	Standard
⎢	**Cr**	**53**	**1.632**	ug/L	0.026	1	102	3606	1	Standard
⎣	**Mn**	**55**	**42.753**	ug/L	1.270	2	567	1137555	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	22965	0	KED
⎢	**Ni**	**60**	**1.333**	ug/L	0.025	1	20	1388	1	KED
⎢	**Ni**	**62**	**1.267**	ug/L	0.140	11	7	220	11	KED
⎢	**Cu**	**63**	**14.384**	ug/L	0.366	2	30	44016	2	KED
⎢	**Cu**	**65**	**14.049**	ug/L	0.360	2	24	21239	2	KED
⎢	**Zn**	**66**	**15.638**	ug/L	0.369	2	40	6383	1	KED
⎢	**Zn**	**67**	**14.604**	ug/L	1.019	6	3	1015	6	KED
⎣	**As**	**75**	**0.432**	ug/L	0.040	9	5	94	8	KED
	Y	**89**		ug/L			208501	244204	1	Standard
	Kr	**83**		ug/L			52	57	10	Standard
⎡>	**In-1**	**115**		ug/L			6222	6214	2	KED
⎢	**Cd**	**111**	**0.030**	ug/L	0.014	46	2	8	32	KED
⎣	**Cd**	**114**	**0.009**	ug/L	0.007	74	6	12	33	KED
⎡>	**Tb**	**159**		ug/L			498579	522653	1	Standard
⎣	**Pb**	**208**	**1.706**	ug/L	0.047	2	109	74177	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-25
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36950	4	Standard
	Cl	**37**		ug/L			3416101	3348458	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	510986	7	Standard
|	**Cr**	**52**	**6.947**	ug/L	0.043	0	16425	160957	7	Standard
|	**Cr**	**53**	**7.168**	ug/L	0.192	2	102	17133	6	Standard
⌊	**Mn**	**55**	**178.843**	ug/L	4.747	2	567	5272051	7	Standard
⌈>	**Ge**	**72**		ug/L			22652	23785	0	KED
|	**Ni**	**60**	**6.559**	ug/L	0.122	1	20	6990	1	KED
|	**Ni**	**62**	**6.405**	ug/L	0.201	3	7	1123	3	KED
|	**Cu**	**63**	**67.232**	ug/L	0.661	0	30	212973	0	KED
|	**Cu**	**65**	**68.661**	ug/L	0.726	1	24	107421	1	KED
|	**Zn**	**66**	**72.988**	ug/L	1.411	1	40	30702	2	KED
|	**Zn**	**67**	**68.701**	ug/L	0.862	1	3	4932	1	KED
⌊	**As**	**75**	**2.125**	ug/L	0.044	2	5	456	2	KED
	Y	**89**		ug/L			208501	341924	8	Standard
	Kr	**83**		ug/L			52	93	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6622	0	KED
|	**Cd**	**111**	**0.084**	ug/L	0.013	16	2	22	14	KED
⌊	**Cd**	**114**	**0.074**	ug/L	0.021	27	6	50	23	KED
⌈>	**Tb**	**159**		ug/L			498579	513382	4	Standard
⌊	**Pb**	**208**	**8.266**	ug/L	0.131	1	109	352917	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:43:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36621	5	Standard
	Cl	**37**		ug/L			3416101	3415109	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	512853	0	Standard
|	**Cr**	**52**	**7.818**	ug/L	0.090	1	16425	179309	1	Standard
|	**Cr**	**53**	**7.839**	ug/L	0.067	0	102	18804	0	Standard
⌊	**Mn**	**55**	**178.327**	ug/L	0.620	0	567	5276760	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	1	KED
|	**Ni**	**60**	**7.337**	ug/L	0.237	3	20	7318	4	KED
|	**Ni**	**62**	**7.469**	ug/L	0.418	5	7	1224	4	KED
|	**Cu**	**63**	**69.282**	ug/L	1.307	1	30	205405	2	KED
|	**Cu**	**65**	**69.871**	ug/L	1.987	2	24	102322	3	KED
|	**Zn**	**66**	**72.792**	ug/L	2.608	3	40	28649	2	KED
|	**Zn**	**67**	**69.269**	ug/L	2.416	3	3	4653	2	KED
⌊	**As**	**75**	**2.067**	ug/L	0.092	4	5	415	3	KED
	Y	**89**		ug/L			208501	351106	2	Standard
	Kr	**83**		ug/L			52	85	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	2	KED
|	**Cd**	**111**	**0.110**	ug/L	0.017	15	2	26	12	KED
⌊	**Cd**	**114**	**0.092**	ug/L	0.007	7	6	55	9	KED
⌈>	**Tb**	**159**		ug/L			498579	515225	2	Standard
⌊	**Pb**	**208**	**8.991**	ug/L	0.195	2	109	384911	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:47:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	37342	0	Standard
	Cl	37		ug/L			3416101	3421286	1	Standard
>	Sc	45		ug/L			429622	545832	2	Standard
	Cr	52	16.844	ug/L	0.214	1	16425	387035	2	Standard
	Cr	53	17.296	ug/L	0.400	2	102	44008	4	Standard
	Mn	55	188.393	ug/L	2.013	1	567	5932891	2	Standard
>	Ge	72		ug/L			22652	23435	1	KED
	Ni	60	18.073	ug/L	0.295	1	20	18939	0	KED
	Ni	62	17.883	ug/L	0.504	2	7	3078	4	KED
	Cu	63	94.704	ug/L	0.501	0	30	295568	1	KED
	Cu	65	93.552	ug/L	1.277	1	24	144177	0	KED
	Zn	66	113.829	ug/L	1.122	0	40	47157	2	KED
	Zn	67	106.321	ug/L	1.945	1	3	7518	0	KED
	As	75	11.912	ug/L	0.292	2	5	2493	2	KED
	Y	89		ug/L			208501	378246	2	Standard
	Kr	83		ug/L			52	108	29	Standard
>	In-1	115		ug/L			6222	6483	1	KED
	Cd	111	10.808	ug/L	0.116	1	2	2540	1	KED
	Cd	114	10.789	ug/L	0.238	2	6	6163	2	KED
>	Tb	159		ug/L			498579	536548	4	Standard
	Pb	208	19.974	ug/L	0.587	2	109	889971	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:52:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35329	2	Standard
	Cl	**37**		ug/L			3416101	3495278	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	522864	1	Standard
|	**Cr**	**52**	**16.917**	ug/L	0.371	2	16425	372252	0	Standard
|	**Cr**	**53**	**16.807**	ug/L	0.219	1	102	40957	0	Standard
⌊	**Mn**	**55**	**238.098**	ug/L	1.706	0	567	7182666	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22411	0	KED
|	**Ni**	**60**	**18.652**	ug/L	0.610	3	20	18692	2	KED
|	**Ni**	**62**	**18.196**	ug/L	0.861	4	7	2993	3	KED
|	**Cu**	**63**	**82.278**	ug/L	0.226	0	30	245569	0	KED
|	**Cu**	**65**	**83.327**	ug/L	1.156	1	24	122823	1	KED
|	**Zn**	**66**	**110.875**	ug/L	0.742	0	40	43923	1	KED
|	**Zn**	**67**	**102.047**	ug/L	1.523	1	3	6901	0	KED
⌊	**As**	**75**	**11.943**	ug/L	0.416	3	5	2390	3	KED
	Y	**89**		ug/L			208501	358541	2	Standard
	Kr	**83**		ug/L			52	104	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6163	2	KED
|	**Cd**	**111**	**10.573**	ug/L	0.308	2	2	2363	3	KED
⌊	**Cd**	**114**	**10.864**	ug/L	0.378	3	6	5898	2	KED
⌈>	**Tb**	**159**		ug/L			498579	520646	3	Standard
⌊	**Pb**	**208**	**19.540**	ug/L	0.709	3	109	844780	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:56:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37694	0	Standard
	Cl	**37**		ug/L			3416101	3351546	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	501226	0	Standard
|	**Cr**	**52**	**29.835**	ug/L	0.469	1	16425	614753	0	Standard
|	**Cr**	**53**	**30.188**	ug/L	0.539	1	102	70427	1	Standard
⌊	**Mn**	**55**	**207.563**	ug/L	3.241	1	567	6002068	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22603	1	KED
|	**Ni**	**60**	**32.510**	ug/L	0.503	1	20	32844	0	KED
|	**Ni**	**62**	**32.863**	ug/L	1.409	4	7	5446	2	KED
|	**Cu**	**63**	**95.182**	ug/L	0.392	0	30	286536	2	KED
|	**Cu**	**65**	**96.112**	ug/L	0.528	0	24	142877	1	KED
|	**Zn**	**66**	**157.316**	ug/L	1.130	0	40	62835	1	KED
|	**Zn**	**67**	**149.266**	ug/L	4.233	2	3	10177	1	KED
⌊	**As**	**75**	**27.545**	ug/L	0.331	1	5	5553	1	KED
	Y	**89**		ug/L			208501	344555	2	Standard
	Kr	**83**		ug/L			52	106	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6294	1	KED
|	**Cd**	**111**	**25.870**	ug/L	0.585	2	2	5900	1	KED
⌊	**Cd**	**114**	**26.669**	ug/L	0.790	2	6	14777	1	KED
⌈>	**Tb**	**159**		ug/L			498579	516235	2	Standard
⌊	**Pb**	**208**	**34.752**	ug/L	0.928	2	109	1490377	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:01:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38446	2	Standard
	Cl	37		ug/L			3416101	3480483	1	Standard
>	Sc	45		ug/L			429622	652384	1	Standard
	Cr	52	17.095	ug/L	0.249	1	16425	469094	0	Standard
	Cr	53	17.086	ug/L	0.463	2	102	51957	3	Standard
	Mn	55	193.596	ug/L	2.404	1	567	7286013	0	Standard
>	Ge	72		ug/L			22652	22245	0	KED
	Ni	60	19.278	ug/L	0.200	1	20	19178	1	KED
	Ni	62	19.381	ug/L	0.597	3	7	3165	3	KED
	Cu	63	20.587	ug/L	0.358	1	30	61012	1	KED
	Cu	65	21.248	ug/L	0.326	1	24	31104	1	KED
	Zn	66	45.102	ug/L	0.757	1	40	17758	1	KED
	Zn	67	52.733	ug/L	1.076	2	3	3542	2	KED
	As	75	2.549	ug/L	0.049	1	5	510	1	KED
	Y	89		ug/L			208501	557040	2	Standard
	Kr	83		ug/L			52	171	10	Standard
>	In-1	115		ug/L			6222	6171	1	KED
	Cd	111	0.065	ug/L	0.012	19	2	16	17	KED
	Cd	114	0.066	ug/L	0.027	41	6	42	33	KED
>	Tb	159		ug/L			498579	529246	2	Standard
	Pb	208	3.695	ug/L	0.059	1	109	162599	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:05:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	42791	2	Standard
	Cl	37		ug/L			3416101	3466894	4	Standard
>	Sc	45		ug/L			429622	650540	1	Standard
	Cr	52	15.716	ug/L	0.190	1	16425	432050	1	Standard
	Cr	53	15.968	ug/L	0.243	1	102	48416	0	Standard
	Mn	55	184.105	ug/L	1.087	0	567	6909882	1	Standard
>	Ge	72		ug/L			22652	21567	1	KED
	Ni	60	20.114	ug/L	0.322	1	20	19396	0	KED
	Ni	62	19.687	ug/L	0.170	0	7	3117	0	KED
	Cu	63	22.237	ug/L	0.274	1	30	63899	2	KED
	Cu	65	22.166	ug/L	0.219	0	24	31458	0	KED
	Zn	66	47.707	ug/L	1.217	2	40	18209	2	KED
	Zn	67	55.199	ug/L	0.943	1	3	3594	2	KED
	As	75	2.320	ug/L	0.019	0	5	451	0	KED
	Y	89		ug/L			208501	565908	2	Standard
	Kr	83		ug/L			52	193	12	Standard
>	In-1	115		ug/L			6222	5930	1	KED
	Cd	111	0.069	ug/L	0.022	32	2	16	26	KED
	Cd	114	0.067	ug/L	0.014	21	6	41	16	KED
>	Tb	159		ug/L			498579	532526	3	Standard
	Pb	208	3.611	ug/L	0.105	2	109	159795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:10:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46762	2	Standard
	Cl	37		ug/L			3416101	3514699	3	Standard
>	Sc	45		ug/L			429622	657737	1	Standard
	Cr	52	15.292	ug/L	0.230	1	16425	425747	1	Standard
	Cr	53	15.671	ug/L	0.664	4	102	48032	2	Standard
	Mn	55	162.071	ug/L	3.855	2	567	6149178	1	Standard
>	Ge	72		ug/L			22652	22750	3	KED
	Ni	60	14.946	ug/L	0.272	1	20	15204	1	KED
	Ni	62	14.794	ug/L	0.156	1	7	2472	2	KED
	Cu	63	17.092	ug/L	0.581	3	30	51776	2	KED
	Cu	65	16.919	ug/L	0.602	3	24	25325	3	KED
	Zn	66	38.504	ug/L	0.217	0	40	15512	3	KED
	Zn	67	46.345	ug/L	1.745	3	3	3181	0	KED
	As	75	2.334	ug/L	0.152	6	5	478	3	KED
	Y	89		ug/L			208501	570365	2	Standard
	Kr	83		ug/L			52	186	16	Standard
>	In-1	115		ug/L			6222	6281	0	KED
	Cd	111	0.054	ug/L	0.013	23	2	14	19	KED
	Cd	114	0.063	ug/L	0.013	21	6	41	17	KED
>	Tb	159		ug/L			498579	548942	2	Standard
	Pb	208	3.450	ug/L	0.034	0	109	157495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:14:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49197	4	Standard
	Cl	37		ug/L			3416101	3536734	0	Standard
>	Sc	45		ug/L			429622	736691	2	Standard
	Cr	52	16.899	ug/L	0.162	0	16425	523984	1	Standard
	Cr	53	17.048	ug/L	0.037	0	102	58537	2	Standard
	Mn	55	148.796	ug/L	3.862	2	567	6322531	0	Standard
>	Ge	72		ug/L			22652	22423	0	KED
	Ni	60	17.273	ug/L	0.087	0	20	17322	0	KED
	Ni	62	16.912	ug/L	0.384	2	7	2785	2	KED
	Cu	63	21.968	ug/L	0.559	2	30	65620	1	KED
	Cu	65	22.166	ug/L	0.325	1	24	32709	1	KED
	Zn	66	52.695	ug/L	1.145	2	40	20906	1	KED
	Zn	67	56.418	ug/L	2.065	3	3	3820	4	KED
	As	75	2.308	ug/L	0.110	4	5	466	5	KED
	Y	89		ug/L			208501	650855	2	Standard
	Kr	83		ug/L			52	234	6	Standard
>	In-1	115		ug/L			6222	6018	1	KED
	Cd	111	0.083	ug/L	0.010	12	2	20	11	KED
	Cd	114	0.071	ug/L	0.031	43	6	43	35	KED
>	Tb	159		ug/L			498579	558397	3	Standard
	Pb	208	4.136	ug/L	0.144	3	109	191889	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:21:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31157	2	Standard
	Cl	**37**		ug/L			3416101	3618929	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	420383	1	Standard
|	**Cr**	**52**	**50.546**	ug/L	0.344	0	16425	862360	1	Standard
|	**Cr**	**53**	**50.605**	ug/L	0.635	1	102	98943	0	Standard
⌊	**Mn**	**55**	**51.822**	ug/L	0.433	0	567	1257198	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	21487	0	KED
|	**Ni**	**60**	**49.839**	ug/L	0.606	1	20	47863	1	KED
|	**Ni**	**62**	**50.795**	ug/L	0.424	0	7	8002	1	KED
|	**Cu**	**63**	**50.219**	ug/L	1.292	2	30	143718	2	KED
|	**Cu**	**65**	**50.642**	ug/L	0.674	1	24	71577	0	KED
|	**Zn**	**66**	**50.420**	ug/L	0.518	1	40	19170	0	KED
|	**Zn**	**67**	**49.883**	ug/L	1.347	2	3	3236	2	KED
⌊	**As**	**75**	**49.815**	ug/L	0.436	0	5	9543	0	KED
	Y	**89**		ug/L			208501	206034	1	Standard
	Kr	**83**		ug/L			52	57	17	Standard
⌈>	**In-1**	**115**		ug/L			6222	5930	3	KED
|	**Cd**	**111**	**51.069**	ug/L	1.784	3	2	10963	0	KED
⌊	**Cd**	**114**	**51.210**	ug/L	1.494	2	6	26715	1	KED
⌈>	**Tb**	**159**		ug/L			498579	492587	3	Standard
⌊	**Pb**	**208**	**52.062**	ug/L	1.589	3	109	2129489	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28002	1	Standard
	Cl	**37**		ug/L			3416101	3314931	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	398335	1	Standard
⎢	**Cr**	**52**	**0.028**	ug/L	0.003	9	16425	15674	2	Standard
⎢	**Cr**	**53**	**-0.001**	ug/L	0.004	389	102	93	7	Standard
⎣	**Mn**	**55**	**0.002**	ug/L	0.001	33	567	571	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21763	3	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.009	361	20	17	48	KED
⎢	**Ni**	**62**	**-0.026**	ug/L	0.019	71	7	3	91	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.005	158	30	38	39	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.000	5	24	15	0	KED
⎢	**Zn**	**66**	**-0.001**	ug/L	0.040	3843	40	38	40	KED
⎢	**Zn**	**67**	**0.052**	ug/L	0.047	91	3	6	41	KED
⎣	**As**	**75**	**0.007**	ug/L	0.007	107	5	6	20	KED
	Y	**89**		ug/L			208501	197792	1	Standard
	Kr	**83**		ug/L			52	36	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5775	2	KED
⎢	**Cd**	**111**	**0.011**	ug/L	0.010	84	2	4	44	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.007	122	6	3	89	KED
⎡>	**Tb**	**159**		ug/L			498579	467450	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	90	109	118	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 22:33:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32522	2	Standard
	Cl	**37**		ug/L			3416101	3288169	3	Standard
⎡>	**Sc**	**45**		ug/L			429622	434060	3	Standard
⎢	**Cr**	**52**	**2.227**	ug/L	0.006	0	16425	55098	3	Standard
⎢	**Cr**	**53**	**2.306**	ug/L	0.045	1	102	4753	1	Standard
⎣	**Mn**	**55**	**28.582**	ug/L	0.336	1	567	716090	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	21449	0	KED
⎢	**Ni**	**60**	**1.817**	ug/L	0.047	2	20	1760	1	KED
⎢	**Ni**	**62**	**1.688**	ug/L	0.120	7	7	272	6	KED
⎢	**Cu**	**63**	**7.117**	ug/L	0.053	0	30	20357	1	KED
⎢	**Cu**	**65**	**6.974**	ug/L	0.091	1	24	9858	0	KED
⎢	**Zn**	**66**	**16.720**	ug/L	0.258	1	40	6371	0	KED
⎢	**Zn**	**67**	**15.287**	ug/L	0.614	4	3	992	3	KED
⎣	**As**	**75**	**0.342**	ug/L	0.036	10	5	70	8	KED
	Y	**89**		ug/L			208501	231742	0	Standard
	Kr	**83**		ug/L			52	55	15	Standard
⎡>	**In-1**	**115**		ug/L			6222	5879	2	KED
⎢	**Cd**	**111**	**0.037**	ug/L	0.026	68	2	10	56	KED
⎣	**Cd**	**114**	**0.019**	ug/L	0.017	92	6	16	55	KED
⎡>	**Tb**	**159**		ug/L			498579	487241	4	Standard
⎣	**Pb**	**208**	**4.696**	ug/L	0.134	2	109	190102	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:37:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41956	3	Standard
	Cl	**37**		ug/L			3416101	3378365	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	523593	1	Standard
|	**Cr**	**52**	**9.601**	ug/L	0.139	1	16425	220265	2	Standard
|	**Cr**	**53**	**9.731**	ug/L	0.119	1	102	23798	0	Standard
⌊	**Mn**	**55**	**116.999**	ug/L	1.175	1	567	3534573	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22536	2	KED
|	**Ni**	**60**	**8.262**	ug/L	0.071	0	20	8337	1	KED
|	**Ni**	**62**	**8.396**	ug/L	0.447	5	7	1392	3	KED
|	**Cu**	**63**	**33.005**	ug/L	0.501	1	30	99053	0	KED
|	**Cu**	**65**	**33.527**	ug/L	0.980	2	24	49693	1	KED
|	**Zn**	**66**	**76.153**	ug/L	1.565	2	40	30340	0	KED
|	**Zn**	**67**	**71.244**	ug/L	0.828	1	3	4845	1	KED
⌊	**As**	**75**	**1.754**	ug/L	0.040	2	5	358	1	KED
	Y	**89**		ug/L			208501	371244	2	Standard
	Kr	**83**		ug/L			52	113	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6324	0	KED
|	**Cd**	**111**	**0.174**	ug/L	0.020	11	2	42	10	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.014	10	6	82	10	KED
⌈>	**Tb**	**159**		ug/L			498579	531146	4	Standard
⌊	**Pb**	**208**	**21.617**	ug/L	0.789	3	109	953333	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:42:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36772	2	Standard
	Cl	**37**		ug/L			3416101	3375995	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	506211	2	Standard
|	**Cr**	**52**	**9.658**	ug/L	0.262	2	16425	214004	1	Standard
|	**Cr**	**53**	**9.833**	ug/L	0.190	1	102	23243	1	Standard
⌊	**Mn**	**55**	**115.608**	ug/L	0.960	0	567	3376336	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21583	2	KED
|	**Ni**	**60**	**8.330**	ug/L	0.283	3	20	8047	2	KED
|	**Ni**	**62**	**8.533**	ug/L	0.304	3	7	1355	1	KED
|	**Cu**	**63**	**32.897**	ug/L	0.837	2	30	94547	1	KED
|	**Cu**	**65**	**32.633**	ug/L	0.827	2	24	46333	2	KED
|	**Zn**	**66**	**76.416**	ug/L	1.804	2	40	29159	1	KED
|	**Zn**	**67**	**74.310**	ug/L	1.930	2	3	4839	0	KED
⌊	**As**	**75**	**2.318**	ug/L	0.044	1	5	451	1	KED
	Y	**89**		ug/L			208501	352283	3	Standard
	Kr	**83**		ug/L			52	80	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5976	0	KED
|	**Cd**	**111**	**0.176**	ug/L	0.012	6	2	40	5	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.002	1	6	87	1	KED
⌈>	**Tb**	**159**		ug/L			498579	501836	3	Standard
⌊	**Pb**	**208**	**24.170**	ug/L	0.734	3	109	1007279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:46:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37051	1	Standard
	Cl	**37**		ug/L			3416101	3404997	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	517829	2	Standard
⎢	**Cr**	**52**	**18.596**	ug/L	0.572	3	16425	403231	2	Standard
⎢	**Cr**	**53**	**19.040**	ug/L	0.162	0	102	45936	2	Standard
⎣	**Mn**	**55**	**125.449**	ug/L	2.341	1	567	3747523	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	21663	1	KED
⎢	**Ni**	**60**	**19.261**	ug/L	0.741	3	20	18655	2	KED
⎢	**Ni**	**62**	**19.277**	ug/L	0.893	4	7	3065	3	KED
⎢	**Cu**	**63**	**43.535**	ug/L	1.449	3	30	125582	2	KED
⎢	**Cu**	**65**	**43.738**	ug/L	0.461	1	24	62326	0	KED
⎢	**Zn**	**66**	**122.251**	ug/L	2.016	1	40	46805	1	KED
⎢	**Zn**	**67**	**112.199**	ug/L	2.697	2	3	7333	1	KED
⎣	**As**	**75**	**11.299**	ug/L	0.229	2	5	2186	0	KED
	Y	**89**		ug/L			208501	359585	0	Standard
	Kr	**83**		ug/L			52	100	16	Standard
⎡>	**In-1**	**115**		ug/L			6222	6035	1	KED
⎢	**Cd**	**111**	**10.763**	ug/L	0.428	3	2	2354	2	KED
⎣	**Cd**	**114**	**10.472**	ug/L	0.051	0	6	5569	2	KED
⎡>	**Tb**	**159**		ug/L			498579	515767	1	Standard
⎣	**Pb**	**208**	**33.474**	ug/L	0.743	2	109	1434462	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:50:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	38200	0	Standard
	Cl	**37**		ug/L			3416101	3305780	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	507760	1	Standard
|	**Cr**	**52**	**18.989**	ug/L	0.239	1	16425	403464	2	Standard
|	**Cr**	**53**	**19.177**	ug/L	0.198	1	102	45364	1	Standard
⌊	**Mn**	**55**	**126.628**	ug/L	2.487	1	567	3710520	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21739	2	KED
|	**Ni**	**60**	**19.423**	ug/L	0.589	3	20	18877	2	KED
|	**Ni**	**62**	**19.445**	ug/L	0.250	1	7	3103	1	KED
|	**Cu**	**63**	**47.219**	ug/L	0.743	1	30	136689	0	KED
|	**Cu**	**65**	**47.803**	ug/L	0.325	0	24	68356	2	KED
|	**Zn**	**66**	**110.906**	ug/L	2.740	2	40	42603	0	KED
|	**Zn**	**67**	**104.372**	ug/L	0.788	0	3	6847	2	KED
⌊	**As**	**75**	**11.433**	ug/L	0.269	2	5	2219	1	KED
	Y	**89**		ug/L			208501	346328	3	Standard
	Kr	**83**		ug/L			52	99	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5908	2	KED
|	**Cd**	**111**	**10.936**	ug/L	0.366	3	2	2341	1	KED
⌊	**Cd**	**114**	**10.925**	ug/L	0.395	3	6	5683	0	KED
⌈>	**Tb**	**159**		ug/L			498579	511473	4	Standard
⌊	**Pb**	**208**	**32.254**	ug/L	1.247	3	109	1369407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:55:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40597	1	Standard
	Cl	**37**		ug/L			3416101	3372676	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	493028	5	Standard
|	**Cr**	**52**	**32.816**	ug/L	1.248	3	16425	662415	2	Standard
|	**Cr**	**53**	**32.977**	ug/L	1.155	3	102	75571	2	Standard
⌊	**Mn**	**55**	**143.695**	ug/L	5.791	4	567	4081614	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22147	2	KED
|	**Ni**	**60**	**33.665**	ug/L	0.675	2	20	33319	1	KED
|	**Ni**	**62**	**34.126**	ug/L	1.096	3	7	5540	0	KED
|	**Cu**	**63**	**59.760**	ug/L	1.464	2	30	176208	0	KED
|	**Cu**	**65**	**58.879**	ug/L	2.549	4	24	85715	1	KED
|	**Zn**	**66**	**159.591**	ug/L	3.387	2	40	62446	1	KED
|	**Zn**	**67**	**145.748**	ug/L	4.209	2	3	9736	1	KED
⌊	**As**	**75**	**27.034**	ug/L	0.535	1	5	5339	0	KED
	Y	**89**		ug/L			208501	354766	3	Standard
	Kr	**83**		ug/L			52	93	13	Standard
⌈>	**In-1**	**115**		ug/L			6222	5998	1	KED
|	**Cd**	**111**	**26.090**	ug/L	0.416	1	2	5670	1	KED
⌊	**Cd**	**114**	**26.836**	ug/L	0.291	1	6	14171	0	KED
⌈>	**Tb**	**159**		ug/L			498579	497269	5	Standard
⌊	**Pb**	**208**	**49.898**	ug/L	1.924	3	109	2059278	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:00:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	47045	1	Standard
	Cl	37		ug/L			3416101	3385921	2	Standard
>	Sc	45		ug/L			429622	685268	1	Standard
	Cr	52	17.143	ug/L	0.182	1	16425	494085	0	Standard
	Cr	53	17.234	ug/L	0.104	0	102	55042	1	Standard
	Mn	55	190.275	ug/L	4.153	2	567	7522792	2	Standard
>	Ge	72		ug/L			22652	21537	1	KED
	Ni	60	22.392	ug/L	0.505	2	20	21558	0	KED
	Ni	62	22.420	ug/L	1.356	6	7	3542	4	KED
	Cu	63	26.419	ug/L	0.610	2	30	75777	0	KED
	Cu	65	26.161	ug/L	0.468	1	24	37070	1	KED
	Zn	66	51.423	ug/L	1.774	3	40	19591	2	KED
	Zn	67	58.095	ug/L	4.014	6	3	3775	5	KED
	As	75	2.599	ug/L	0.149	5	5	504	4	KED
	Y	89		ug/L			208501	614899	1	Standard
	Kr	83		ug/L			52	228	3	Standard
>	In-1	115		ug/L			6222	6106	1	KED
	Cd	111	0.075	ug/L	0.024	32	2	18	28	KED
	Cd	114	0.070	ug/L	0.021	30	6	44	26	KED
>	Tb	159		ug/L			498579	527436	2	Standard
	Pb	208	4.237	ug/L	0.141	3	109	185694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:04:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	51540	0	Standard
	Cl	37		ug/L			3416101	3417436	1	Standard
>	Sc	45		ug/L			429622	564025	1	Standard
	Cr	52	14.222	ug/L	0.329	2	16425	341054	1	Standard
	Cr	53	14.421	ug/L	0.326	2	102	37926	1	Standard
	Mn	55	216.875	ug/L	2.984	1	567	7057307	1	Standard
>	Ge	72		ug/L			22652	21188	3	KED
	Ni	60	13.438	ug/L	0.171	1	20	12735	2	KED
	Ni	62	13.466	ug/L	0.205	1	7	2097	4	KED
	Cu	63	44.581	ug/L	1.445	3	30	125710	1	KED
	Cu	65	44.501	ug/L	1.227	2	24	61985	1	KED
	Zn	66	131.471	ug/L	2.034	1	40	49247	5	KED
	Zn	67	124.551	ug/L	3.138	2	3	7958	1	KED
	As	75	3.635	ug/L	0.097	2	5	691	4	KED
	Y	89		ug/L			208501	460766	1	Standard
	Kr	83		ug/L			52	131	8	Standard
>	In-1	115		ug/L			6222	5719	2	KED
	Cd	111	0.290	ug/L	0.013	4	2	62	4	KED
	Cd	114	0.264	ug/L	0.028	10	6	139	12	KED
>	Tb	159		ug/L			498579	516331	2	Standard
	Pb	208	18.472	ug/L	0.421	2	109	792412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:08:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	48665	1	Standard
	Cl	37		ug/L			3416101	3418241	0	Standard
>	Sc	45		ug/L			429622	629297	1	Standard
	Cr	52	16.157	ug/L	0.154	0	16425	428984	0	Standard
	Cr	53	16.497	ug/L	0.022	0	102	48391	1	Standard
	Mn	55	304.586	ug/L	3.680	1	567	11057174	1	Standard
>	Ge	72		ug/L			22652	21670	2	KED
	Ni	60	18.043	ug/L	0.081	0	20	17486	2	KED
	Ni	62	18.602	ug/L	0.486	2	7	2959	2	KED
	Cu	63	41.576	ug/L	0.481	1	30	119983	1	KED
	Cu	65	41.644	ug/L	0.583	1	24	59354	1	KED
	Zn	66	139.453	ug/L	3.679	2	40	53387	0	KED
	Zn	67	136.309	ug/L	2.978	2	3	8911	1	KED
	As	75	4.190	ug/L	0.060	1	5	814	1	KED
	Y	89		ug/L			208501	559884	2	Standard
	Kr	83		ug/L			52	187	4	Standard
>	In-1	115		ug/L			6222	5842	3	KED
	Cd	111	0.345	ug/L	0.071	20	2	74	19	KED
	Cd	114	0.248	ug/L	0.052	20	6	134	21	KED
>	Tb	159		ug/L			498579	523748	4	Standard
	Pb	208	27.593	ug/L	1.163	4	109	1199697	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-21
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:13:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49977	2	Standard
	Cl	37		ug/L			3416101	3370637	0	Standard
>	Sc	45		ug/L			429622	598748	1	Standard
	Cr	52	15.427	ug/L	0.163	1	16425	390813	2	Standard
	Cr	53	15.516	ug/L	0.049	0	102	43314	1	Standard
	Mn	55	292.092	ug/L	2.013	0	567	10089737	1	Standard
>	Ge	72		ug/L			22652	21885	2	KED
	Ni	60	18.065	ug/L	0.325	1	20	17678	1	KED
	Ni	62	17.753	ug/L	0.483	2	7	2852	1	KED
	Cu	63	29.005	ug/L	0.782	2	30	84544	2	KED
	Cu	65	28.871	ug/L	0.678	2	24	41558	0	KED
	Zn	66	127.421	ug/L	3.498	2	40	49268	1	KED
	Zn	67	122.468	ug/L	4.460	3	3	8083	1	KED
	As	75	3.292	ug/L	0.078	2	5	647	4	KED
	Y	89		ug/L			208501	520524	4	Standard
	Kr	83		ug/L			52	174	19	Standard
>	In-1	115		ug/L			6222	6022	2	KED
	Cd	111	0.200	ug/L	0.026	12	2	45	9	KED
	Cd	114	0.187	ug/L	0.028	15	6	105	13	KED
>	Tb	159		ug/L			498579	515472	2	Standard
	Pb	208	18.841	ug/L	0.627	3	109	806722	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:20:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30212	2	Standard
	Cl	**37**		ug/L			3416101	3551990	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	419381	2	Standard
|	**Cr**	**52**	**50.352**	ug/L	0.880	1	16425	856958	1	Standard
|	**Cr**	**53**	**50.200**	ug/L	0.153	0	102	97928	1	Standard
⌊	**Mn**	**55**	**50.613**	ug/L	0.637	1	567	1224861	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21189	1	KED
|	**Ni**	**60**	**50.310**	ug/L	1.260	2	20	47635	1	KED
|	**Ni**	**62**	**49.288**	ug/L	0.553	1	7	7656	1	KED
|	**Cu**	**63**	**49.978**	ug/L	0.477	0	30	141036	0	KED
|	**Cu**	**65**	**49.692**	ug/L	0.477	0	24	69255	0	KED
|	**Zn**	**66**	**49.994**	ug/L	1.216	2	40	18748	3	KED
|	**Zn**	**67**	**49.241**	ug/L	0.933	1	3	3150	1	KED
⌊	**As**	**75**	**49.268**	ug/L	0.469	0	5	9307	0	KED
	Y	**89**		ug/L			208501	204002	1	Standard
	Kr	**83**		ug/L			52	70	9	Standard
⌈>	**In-1**	**115**		ug/L			6222	5743	1	KED
|	**Cd**	**111**	**50.781**	ug/L	1.134	2	2	10566	1	KED
⌊	**Cd**	**114**	**51.216**	ug/L	1.216	2	6	25889	1	KED
⌈>	**Tb**	**159**		ug/L			498579	487080	4	Standard
⌊	**Pb**	**208**	**51.990**	ug/L	2.142	4	109	2101826	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:27:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30670	0	Standard
	Cl	**37**		ug/L			3416101	3321596	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	432054	3	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.016	207	16425	16384	3	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.002	29	102	91	1	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.002	180	567	594	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21902	2	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.005	300	20	17	26	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.007	24	7	2	43	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.005	408	30	33	43	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	57	24	17	19	KED
⎢	**Zn**	**66**	**-0.018**	ug/L	0.017	96	40	32	17	KED
⎢	**Zn**	**67**	**0.040**	ug/L	0.091	227	3	6	96	KED
⎣	**As**	**75**	**0.001**	ug/L	0.007	626	5	5	20	KED
	Y	**89**		ug/L			208501	205788	1	Standard
	Kr	**83**		ug/L			52	50	11	Standard
⎡>	**In-1**	**115**		ug/L			6222	6189	2	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.003	3125	2	2	24	KED
⎣	**Cd**	**114**	**-0.011**	ug/L	0.002	20	6	1	106	KED
⎡>	**Tb**	**159**		ug/L			498579	481385	5	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	70	109	132	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0516-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 23:31:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	126290	2	Standard
	Cl	**37**		ug/L			3416101	3454727	5	Standard
>	**Sc**	**45**		ug/L			429622	418378	9	Standard
	Cr	**52**	**75.268**	ug/L	3.264	4	16425	1266804	5	Standard
	Cr	**53**	**74.725**	ug/L	3.083	4	102	144995	5	Standard
	Mn	**55**	**14.440**	ug/L	0.534	3	567	348285	6	Standard
>	**Ge**	**72**		ug/L			22652	21749	0	KED
	Ni	**60**	**1.755**	ug/L	0.054	3	20	1724	2	KED
	Ni	**62**	**1.664**	ug/L	0.111	6	7	272	6	KED
	Cu	**63**	**3.591**	ug/L	0.047	1	30	10428	1	KED
	Cu	**65**	**3.646**	ug/L	0.108	2	24	5238	3	KED
	Zn	**66**	**281.671**	ug/L	1.980	0	40	108232	0	KED
	Zn	**67**	**255.077**	ug/L	1.242	0	3	16737	0	KED
	As	**75**	**0.097**	ug/L	0.016	16	5	24	12	KED
	Y	**89**		ug/L			208501	205690	8	Standard
	Kr	**83**		ug/L			52	57	12	Standard
>	**In-1**	**115**		ug/L			6222	6083	1	KED
	Cd	**111**	**1.673**	ug/L	0.043	2	2	370	1	KED
	Cd	**114**	**1.728**	ug/L	0.037	2	6	931	2	KED
>	**Tb**	**159**		ug/L			498579	480759	10	Standard
	Pb	**208**	**0.293**	ug/L	0.022	7	109	11740	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:36:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31900	2	Standard
	Cl	**37**		ug/L			3416101	3492233	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	409879	1	Standard
|	**Cr**	**52**	**0.053**	ug/L	0.038	71	16425	16528	2	Standard
|	**Cr**	**53**	**0.005**	ug/L	0.004	69	102	107	8	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	11	567	697	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	20922	2	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	16	20	10	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.006	141	7	6	17	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	30	38	10	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	57	24	14	32	KED
|	**Zn**	**66**	**0.017**	ug/L	0.016	95	40	43	15	KED
|	**Zn**	**67**	**0.065**	ug/L	0.033	50	3	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	408	5	5	9	KED
	Y	**89**		ug/L			208501	203292	1	Standard
	Kr	**83**		ug/L			52	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6222	5742	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	228	2	2	43	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.002	26	6	2	42	KED
⌈>	**Tb**	**159**		ug/L			498579	472001	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	23	109	206	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 23:40:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32649	1	Standard
	Cl	**37**		ug/L			3416101	3253034	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	425265	2	Standard
⎢	**Cr**	**52**	**1.020**	ug/L	0.057	5	16425	33527	0	Standard
⎢	**Cr**	**53**	**1.047**	ug/L	0.050	4	102	2168	2	Standard
⎣	**Mn**	**55**	**16.483**	ug/L	0.400	2	567	404781	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21135	2	KED
⎢	**Ni**	**60**	**1.249**	ug/L	0.076	6	20	1198	6	KED
⎢	**Ni**	**62**	**1.369**	ug/L	0.016	1	7	219	3	KED
⎢	**Cu**	**63**	**2.217**	ug/L	0.146	6	30	6266	5	KED
⎢	**Cu**	**65**	**2.332**	ug/L	0.053	2	24	3263	2	KED
⎢	**Zn**	**66**	**8.665**	ug/L	0.286	3	40	3270	1	KED
⎢	**Zn**	**67**	**9.194**	ug/L	0.677	7	3	589	5	KED
⎣	**As**	**75**	**0.351**	ug/L	0.048	13	5	71	12	KED
	Y	**89**		ug/L			208501	227322	2	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5764	2	KED
⎢	**Cd**	**111**	**0.020**	ug/L	0.013	65	2	6	45	KED
⎣	**Cd**	**114**	**0.007**	ug/L	0.005	65	6	9	21	KED
⎡>	**Tb**	**159**		ug/L			498579	479840	4	Standard
⎣	**Pb**	**208**	**1.033**	ug/L	0.041	3	109	41262	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-20
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:44:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35033	0	Standard
	Cl	**37**		ug/L			3416101	3290985	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	460960	3	Standard
⎢	**Cr**	**52**	**4.655**	ug/L	0.147	3	16425	103020	1	Standard
⎢	**Cr**	**53**	**4.734**	ug/L	0.129	2	102	10245	2	Standard
⎣	**Mn**	**55**	**73.655**	ug/L	1.474	2	567	1958308	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	21056	0	KED
⎢	**Ni**	**60**	**6.295**	ug/L	0.208	3	20	5940	3	KED
⎢	**Ni**	**62**	**6.385**	ug/L	0.212	3	7	991	3	KED
⎢	**Cu**	**63**	**10.561**	ug/L	0.269	2	30	29640	2	KED
⎢	**Cu**	**65**	**10.862**	ug/L	0.403	3	24	15061	3	KED
⎢	**Zn**	**66**	**41.147**	ug/L	0.658	1	40	15339	1	KED
⎢	**Zn**	**67**	**39.417**	ug/L	0.431	1	3	2506	0	KED
⎣	**As**	**75**	**1.738**	ug/L	0.078	4	5	331	4	KED
	Y	**89**		ug/L			208501	316930	2	Standard
	Kr	**83**		ug/L			52	67	11	Standard
⎡>	**In-1**	**115**		ug/L			6222	5954	1	KED
⎢	**Cd**	**111**	**0.076**	ug/L	0.008	10	2	18	7	KED
⎣	**Cd**	**114**	**0.036**	ug/L	0.018	49	6	25	37	KED
⎡>	**Tb**	**159**		ug/L			498579	497293	3	Standard
⎣	**Pb**	**208**	**4.808**	ug/L	0.170	3	109	198630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:49:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35797	1	Standard
	Cl	**37**		ug/L			3416101	3347294	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	459784	2	Standard
⎢	**Cr**	**52**	**4.687**	ug/L	0.074	1	16425	103402	1	Standard
⎢	**Cr**	**53**	**4.694**	ug/L	0.242	5	102	10129	2	Standard
⎣	**Mn**	**55**	**67.591**	ug/L	1.759	2	567	1792809	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	20840	1	KED
⎢	**Ni**	**60**	**5.902**	ug/L	0.233	3	20	5511	2	KED
⎢	**Ni**	**62**	**5.724**	ug/L	0.104	1	7	880	0	KED
⎢	**Cu**	**63**	**9.320**	ug/L	0.277	2	30	25885	1	KED
⎢	**Cu**	**65**	**9.390**	ug/L	0.165	1	24	12890	2	KED
⎢	**Zn**	**66**	**34.822**	ug/L	0.615	1	40	12851	0	KED
⎢	**Zn**	**67**	**33.653**	ug/L	1.167	3	3	2118	2	KED
⎣	**As**	**75**	**1.178**	ug/L	0.060	5	5	224	3	KED
	Y	**89**		ug/L			208501	306749	1	Standard
	Kr	**83**		ug/L			52	53	8	Standard
⎡>	**In-1**	**115**		ug/L			6222	5876	1	KED
⎢	**Cd**	**111**	**0.060**	ug/L	0.030	49	2	14	43	KED
⎣	**Cd**	**114**	**0.048**	ug/L	0.003	5	6	31	3	KED
⎡>	**Tb**	**159**		ug/L			498579	496358	3	Standard
⎣	**Pb**	**208**	**4.089**	ug/L	0.201	4	109	168581	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:53:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32912	0	Standard
	Cl	**37**		ug/L			3416101	3334208	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	460075	0	Standard
⎢	**Cr**	**52**	**14.502**	ug/L	0.227	1	16425	283308	0	Standard
⎢	**Cr**	**53**	**14.394**	ug/L	0.123	0	102	30880	0	Standard
⎣	**Mn**	**55**	**85.617**	ug/L	0.808	0	567	2272998	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	22261	0	KED
⎢	**Ni**	**60**	**17.596**	ug/L	0.226	1	20	17518	1	KED
⎢	**Ni**	**62**	**17.788**	ug/L	0.481	2	7	2907	2	KED
⎢	**Cu**	**63**	**23.105**	ug/L	0.450	1	30	68515	1	KED
⎢	**Cu**	**65**	**23.387**	ug/L	0.390	1	24	34259	1	KED
⎢	**Zn**	**66**	**73.872**	ug/L	0.615	0	40	29080	0	KED
⎢	**Zn**	**67**	**68.976**	ug/L	2.399	3	3	4634	2	KED
⎣	**As**	**75**	**10.929**	ug/L	0.298	2	5	2173	2	KED
	Y	**89**		ug/L			208501	321571	0	Standard
	Kr	**83**		ug/L			52	80	12	Standard
⎡>	**In-1**	**115**		ug/L			6222	6050	2	KED
⎢	**Cd**	**111**	**10.585**	ug/L	0.306	2	2	2321	0	KED
⎣	**Cd**	**114**	**10.567**	ug/L	0.408	3	6	5630	2	KED
⎡>	**Tb**	**159**		ug/L			498579	489777	2	Standard
⎣	**Pb**	**208**	**16.220**	ug/L	0.252	1	109	660173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:58:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36814	1	Standard
	Cl	**37**		ug/L			3416101	3384829	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	485303	2	Standard
|	**Cr**	**52**	**15.001**	ug/L	0.399	2	16425	308396	0	Standard
|	**Cr**	**53**	**15.038**	ug/L	0.548	3	102	34013	1	Standard
⌊	**Mn**	**55**	**85.300**	ug/L	2.050	2	567	2387898	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	20951	1	KED
|	**Ni**	**60**	**17.724**	ug/L	0.140	0	20	16607	1	KED
|	**Ni**	**62**	**17.576**	ug/L	0.488	2	7	2704	3	KED
|	**Cu**	**63**	**21.632**	ug/L	0.349	1	30	60372	1	KED
|	**Cu**	**65**	**21.864**	ug/L	0.938	4	24	30129	2	KED
|	**Zn**	**66**	**93.011**	ug/L	0.536	0	40	34452	1	KED
|	**Zn**	**67**	**87.834**	ug/L	1.832	2	3	5552	0	KED
⌊	**As**	**75**	**10.987**	ug/L	0.175	1	5	2056	2	KED
	Y	**89**		ug/L			208501	341865	2	Standard
	Kr	**83**		ug/L			52	95	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5681	1	KED
|	**Cd**	**111**	**10.926**	ug/L	0.240	2	2	2250	1	KED
⌊	**Cd**	**114**	**10.884**	ug/L	0.257	2	6	5447	1	KED
⌈>	**Tb**	**159**		ug/L			498579	513014	3	Standard
⌊	**Pb**	**208**	**15.431**	ug/L	0.552	3	109	657413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:02:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34964	3	Standard
	Cl	**37**		ug/L			3416101	3410599	2	Standard
⎡>	**Sc**	**45**		ug/L			429622	471137	4	Standard
⎢	**Cr**	**52**	**28.571**	ug/L	0.438	1	16425	553986	3	Standard
⎢	**Cr**	**53**	**28.824**	ug/L	0.722	2	102	63172	2	Standard
⎣	**Mn**	**55**	**98.487**	ug/L	1.472	1	567	2676206	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	22225	0	KED
⎢	**Ni**	**60**	**33.168**	ug/L	0.412	1	20	32952	1	KED
⎢	**Ni**	**62**	**32.724**	ug/L	0.076	0	7	5334	1	KED
⎢	**Cu**	**63**	**37.813**	ug/L	0.889	2	30	111950	2	KED
⎢	**Cu**	**65**	**37.570**	ug/L	0.919	2	24	54941	3	KED
⎢	**Zn**	**66**	**127.206**	ug/L	0.351	0	40	49970	1	KED
⎢	**Zn**	**67**	**116.589**	ug/L	2.888	2	3	7819	2	KED
⎣	**As**	**75**	**27.269**	ug/L	0.153	0	5	5406	0	KED
	Y	**89**		ug/L			208501	328580	2	Standard
	Kr	**83**		ug/L			52	61	34	Standard
⎡>	**In-1**	**115**		ug/L			6222	6056	0	KED
⎢	**Cd**	**111**	**26.468**	ug/L	0.294	1	2	5809	1	KED
⎣	**Cd**	**114**	**26.604**	ug/L	0.576	2	6	14186	2	KED
⎡>	**Tb**	**159**		ug/L			498579	500325	5	Standard
⎣	**Pb**	**208**	**32.342**	ug/L	1.456	4	109	1342547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRM2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:06:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35447	1	Standard
	Cl	**37**		ug/L			3416101	3348515	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	447131	1	Standard
⎢	**Cr**	**52**	**49.665**	ug/L	0.304	0	16425	901623	1	Standard
⎢	**Cr**	**53**	**50.854**	ug/L	0.480	0	102	105764	0	Standard
⎣	**Mn**	**55**	**121.689**	ug/L	1.435	1	567	3139587	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	21066	1	KED
⎢	**Ni**	**60**	**80.835**	ug/L	2.018	2	20	76082	1	KED
⎢	**Ni**	**62**	**79.740**	ug/L	1.739	2	7	12310	2	KED
⎢	**Cu**	**63**	**33.104**	ug/L	0.818	2	30	92880	2	KED
⎢	**Cu**	**65**	**32.435**	ug/L	0.364	1	24	44951	1	KED
⎢	**Zn**	**66**	**37.528**	ug/L	0.917	2	40	13996	1	KED
⎢	**Zn**	**67**	**40.835**	ug/L	0.481	1	3	2598	2	KED
⎣	**As**	**75**	**19.282**	ug/L	0.217	1	5	3625	1	KED
	Y	**89**		ug/L			208501	277281	0	Standard
	Kr	**83**		ug/L			52	57	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5979	0	KED
⎢	**Cd**	**111**	**36.909**	ug/L	0.575	1	2	7996	1	KED
⎣	**Cd**	**114**	**37.227**	ug/L	0.378	1	6	19594	0	KED
⎡>	**Tb**	**159**		ug/L			498579	510486	3	Standard
⎣	**Pb**	**208**	**62.318**	ug/L	2.363	3	109	2641194	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:11:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	33038	2	Standard
	Cl	**37**		ug/L			3416101	3265330	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	418822	1	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.019	282	16425	15899	2	Standard
⎢	**Cr**	**53**	**-0.002**	ug/L	0.003	170	102	96	4	Standard
⎣	**Mn**	**55**	**0.008**	ug/L	0.001	12	567	740	4	Standard
⎡>	**Ge**	**72**		ug/L			22652	21130	3	KED
⎢	**Ni**	**60**	**-0.011**	ug/L	0.003	29	20	8	35	KED
⎢	**Ni**	**62**	**-0.025**	ug/L	0.007	26	7	3	34	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.003	27	30	53	11	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.004	70	24	30	21	KED
⎢	**Zn**	**66**	**0.020**	ug/L	0.019	95	40	45	12	KED
⎢	**Zn**	**67**	**0.015**	ug/L	0.077	501	3	4	107	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.014	1141	5	5	48	KED
	Y	**89**		ug/L			208501	206765	1	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5914	1	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.005	507	2	1	50	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.004	70	6	3	57	KED
⎡>	**Tb**	**159**		ug/L			498579	474330	3	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.001	13	109	322	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:15:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31549	0	Standard
	Cl	**37**		ug/L			3416101	3523562	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	415244	3	Standard
⎢	**Cr**	**52**	**50.902**	ug/L	0.792	1	16425	857459	2	Standard
⎢	**Cr**	**53**	**50.076**	ug/L	1.593	3	102	96651	1	Standard
⎣	**Mn**	**55**	**51.084**	ug/L	0.995	1	567	1223740	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	21010	2	KED
⎢	**Ni**	**60**	**50.376**	ug/L	1.711	3	20	47281	2	KED
⎢	**Ni**	**62**	**51.105**	ug/L	2.184	4	7	7866	2	KED
⎢	**Cu**	**63**	**49.628**	ug/L	1.217	2	30	138831	1	KED
⎢	**Cu**	**65**	**49.448**	ug/L	0.855	1	24	68323	1	KED
⎢	**Zn**	**66**	**51.617**	ug/L	1.455	2	40	19182	1	KED
⎢	**Zn**	**67**	**49.608**	ug/L	0.941	1	3	3146	1	KED
⎣	**As**	**75**	**49.810**	ug/L	1.132	2	5	9328	1	KED
	Y	**89**		ug/L			208501	208760	2	Standard
	Kr	**83**		ug/L			52	55	24	Standard
⎡>	**In-1**	**115**		ug/L			6222	5663	0	KED
⎢	**Cd**	**111**	**50.579**	ug/L	1.079	2	2	10380	2	KED
⎣	**Cd**	**114**	**51.126**	ug/L	0.563	1	6	25490	1	KED
⎡>	**Tb**	**159**		ug/L			498579	480987	4	Standard
⎣	**Pb**	**208**	**52.441**	ug/L	1.187	2	109	2094890	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:22:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29608	2	Standard
	Cl	**37**		ug/L			3416101	3285009	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	397909	0	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.018	788	16425	15176	1	Standard
⎢	**Cr**	**53**	**-0.008**	ug/L	0.003	36	102	80	6	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.001	126	567	501	6	Standard
⎡>	**Ge**	**72**		ug/L			22652	20223	3	KED
⎢	**Ni**	**60**	**-0.009**	ug/L	0.001	13	20	10	10	KED
⎢	**Ni**	**62**	**-0.012**	ug/L	0.019	155	7	5	57	KED
⎢	**Cu**	**63**	**0.000**	ug/L	0.003	1022	30	27	27	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.007	172	24	16	53	KED
⎢	**Zn**	**66**	**-0.023**	ug/L	0.010	41	40	27	10	KED
⎢	**Zn**	**67**	**0.018**	ug/L	0.021	117	3	4	24	KED
⎣	**As**	**75**	**0.002**	ug/L	0.020	815	5	5	62	KED
	Y	**89**		ug/L			208501	194885	0	Standard
	Kr	**83**		ug/L			52	38	15	Standard
⎡>	**In-1**	**115**		ug/L			6222	5602	2	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.007	265	2	2	57	KED
⎣	**Cd**	**114**	**-0.010**	ug/L	0.002	22	6	1	86	KED
⎡>	**Tb**	**159**		ug/L			498579	452147	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	111	109	111	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:26:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34922	4	Standard
	Cl	**37**		ug/L			3416101	3348788	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	449099	0	Standard
|	**Cr**	**52**	**1.330**	ug/L	0.039	2	16425	40962	2	Standard
|	**Cr**	**53**	**1.358**	ug/L	0.030	2	102	2940	1	Standard
⌊	**Mn**	**55**	**29.261**	ug/L	0.539	1	567	758777	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20964	1	KED
|	**Ni**	**60**	**1.621**	ug/L	0.083	5	20	1536	4	KED
|	**Ni**	**62**	**1.623**	ug/L	0.156	9	7	256	10	KED
|	**Cu**	**63**	**2.921**	ug/L	0.066	2	30	8182	1	KED
|	**Cu**	**65**	**3.025**	ug/L	0.092	3	24	4192	2	KED
|	**Zn**	**66**	**12.272**	ug/L	0.389	3	40	4581	3	KED
|	**Zn**	**67**	**12.200**	ug/L	1.184	9	3	774	8	KED
⌊	**As**	**75**	**0.295**	ug/L	0.013	4	5	60	4	KED
	Y	**89**		ug/L			208501	243670	1	Standard
	Kr	**83**		ug/L			52	61	6	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**0.030**	ug/L	0.013	44	2	8	35	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.006	16	6	23	12	KED
⌈>	**Tb**	**159**		ug/L			498579	500269	4	Standard
⌊	**Pb**	**208**	**1.550**	ug/L	0.043	2	109	64498	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22J0097-31
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:31:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39535	2	Standard
	Cl	**37**		ug/L			3416101	3356703	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	479478	1	Standard
|	**Cr**	**52**	**5.988**	ug/L	0.067	1	16425	132683	1	Standard
|	**Cr**	**53**	**6.005**	ug/L	0.103	1	102	13494	2	Standard
⌊	**Mn**	**55**	**126.181**	ug/L	2.053	1	567	3491219	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20909	2	KED
|	**Ni**	**60**	**8.197**	ug/L	0.089	1	20	7674	1	KED
|	**Ni**	**62**	**8.210**	ug/L	0.344	4	7	1263	1	KED
|	**Cu**	**63**	**14.457**	ug/L	0.350	2	30	40263	0	KED
|	**Cu**	**65**	**14.441**	ug/L	0.055	0	24	19879	2	KED
|	**Zn**	**66**	**59.092**	ug/L	2.281	3	40	21843	1	KED
|	**Zn**	**67**	**55.515**	ug/L	1.719	3	3	3504	3	KED
⌊	**As**	**75**	**1.308**	ug/L	0.060	4	5	249	4	KED
	Y	**89**		ug/L			208501	322274	2	Standard
	Kr	**83**		ug/L			52	73	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	5662	1	KED
|	**Cd**	**111**	**0.148**	ug/L	0.014	9	2	32	10	KED
⌊	**Cd**	**114**	**0.138**	ug/L	0.041	29	6	74	25	KED
⌈>	**Tb**	**159**		ug/L			498579	494083	4	Standard
⌊	**Pb**	**208**	**7.331**	ug/L	0.314	4	109	300671	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41675	2	Standard
	Cl	**37**		ug/L			3416101	3408444	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	483118	3	Standard
|	**Cr**	**52**	**6.064**	ug/L	0.060	0	16425	135147	2	Standard
|	**Cr**	**53**	**6.182**	ug/L	0.042	0	102	13992	3	Standard
⌊	**Mn**	**55**	**134.781**	ug/L	1.835	1	567	3756019	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21760	0	KED
|	**Ni**	**60**	**7.953**	ug/L	0.084	1	20	7751	1	KED
|	**Ni**	**62**	**7.725**	ug/L	0.349	4	7	1238	4	KED
|	**Cu**	**63**	**14.760**	ug/L	0.041	0	30	42799	0	KED
|	**Cu**	**65**	**15.084**	ug/L	0.311	2	24	21608	2	KED
|	**Zn**	**66**	**60.944**	ug/L	1.187	1	40	23461	2	KED
|	**Zn**	**67**	**59.377**	ug/L	1.213	2	3	3900	2	KED
⌊	**As**	**75**	**1.547**	ug/L	0.061	3	5	305	4	KED
	Y	**89**		ug/L			208501	332178	3	Standard
	Kr	**83**		ug/L			52	74	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6094	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.010	7	2	30	9	KED
⌊	**Cd**	**114**	**0.127**	ug/L	0.011	8	6	75	5	KED
⌈>	**Tb**	**159**		ug/L			498579	502605	2	Standard
⌊	**Pb**	**208**	**7.113**	ug/L	0.179	2	109	297064	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:40:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40716	1	Standard
	Cl	**37**		ug/L			3416101	3511424	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	504591	1	Standard
⎢	**Cr**	**52**	**16.094**	ug/L	0.104	0	16425	342721	1	Standard
⎢	**Cr**	**53**	**16.277**	ug/L	0.403	2	102	38275	1	Standard
⎣	**Mn**	**55**	**135.860**	ug/L	2.804	2	567	3954824	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	22057	0	KED
⎢	**Ni**	**60**	**18.688**	ug/L	0.479	2	20	18433	2	KED
⎢	**Ni**	**62**	**18.273**	ug/L	0.076	0	7	2959	0	KED
⎢	**Cu**	**63**	**24.922**	ug/L	0.315	1	30	73229	1	KED
⎢	**Cu**	**65**	**25.258**	ug/L	0.179	0	24	36659	0	KED
⎢	**Zn**	**66**	**90.053**	ug/L	0.819	0	40	35118	0	KED
⎢	**Zn**	**67**	**83.877**	ug/L	2.281	2	3	5583	2	KED
⎣	**As**	**75**	**11.217**	ug/L	0.121	1	5	2210	0	KED
	Y	**89**		ug/L			208501	349782	1	Standard
	Kr	**83**		ug/L			52	86	5	Standard
⎡>	**In-1**	**115**		ug/L			6222	5892	0	KED
⎢	**Cd**	**111**	**10.592**	ug/L	0.146	1	2	2263	0	KED
⎣	**Cd**	**114**	**10.765**	ug/L	0.086	0	6	5588	1	KED
⎡>	**Tb**	**159**		ug/L			498579	515423	4	Standard
⎣	**Pb**	**208**	**17.577**	ug/L	0.477	2	109	752437	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:44:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39126	3	Standard
	Cl	**37**		ug/L			3416101	3486444	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	482324	2	Standard
⎢	**Cr**	**52**	**15.556**	ug/L	0.284	1	16425	317229	2	Standard
⎢	**Cr**	**53**	**15.536**	ug/L	0.343	2	102	34926	1	Standard
⎣	**Mn**	**55**	**134.850**	ug/L	1.275	0	567	3753412	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21584	3	KED
⎢	**Ni**	**60**	**18.719**	ug/L	1.065	5	20	18043	2	KED
⎢	**Ni**	**62**	**18.213**	ug/L	0.565	3	7	2884	1	KED
⎢	**Cu**	**63**	**23.531**	ug/L	1.141	4	30	67586	1	KED
⎢	**Cu**	**65**	**23.837**	ug/L	0.672	2	24	33833	0	KED
⎢	**Zn**	**66**	**86.113**	ug/L	1.343	1	40	32852	2	KED
⎢	**Zn**	**67**	**82.952**	ug/L	3.165	3	3	5399	0	KED
⎣	**As**	**75**	**10.761**	ug/L	0.444	4	5	2073	0	KED
	Y	**89**		ug/L			208501	330446	2	Standard
	Kr	**83**		ug/L			52	88	25	Standard
⎡>	**In-1**	**115**		ug/L			6222	5946	3	KED
⎢	**Cd**	**111**	**10.366**	ug/L	0.442	4	2	2232	0	KED
⎣	**Cd**	**114**	**10.383**	ug/L	0.401	3	6	5435	0	KED
⎡>	**Tb**	**159**		ug/L			498579	498626	5	Standard
⎣	**Pb**	**208**	**17.243**	ug/L	0.649	3	109	713675	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:48:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39631	1	Standard
	Cl	**37**		ug/L			3416101	3480784	2	Standard
⎡>	**Sc**	**45**		ug/L			429622	475060	3	Standard
⎢	**Cr**	**52**	**29.015**	ug/L	0.275	0	16425	567116	2	Standard
⎢	**Cr**	**53**	**29.339**	ug/L	0.944	3	102	64838	0	Standard
⎣	**Mn**	**55**	**148.145**	ug/L	2.566	1	567	4059387	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	21218	3	KED
⎢	**Ni**	**60**	**34.525**	ug/L	2.219	6	20	32700	3	KED
⎢	**Ni**	**62**	**33.620**	ug/L	2.261	6	7	5224	3	KED
⎢	**Cu**	**63**	**40.486**	ug/L	0.677	1	30	114374	2	KED
⎢	**Cu**	**65**	**40.412**	ug/L	1.213	3	24	56368	1	KED
⎢	**Zn**	**66**	**140.509**	ug/L	5.328	3	40	52641	0	KED
⎢	**Zn**	**67**	**127.382**	ug/L	4.135	3	3	8149	0	KED
⎣	**As**	**75**	**26.881**	ug/L	0.424	1	5	5086	2	KED
	Y	**89**		ug/L			208501	323490	1	Standard
	Kr	**83**		ug/L			52	71	14	Standard
⎡>	**In-1**	**115**		ug/L			6222	5889	1	KED
⎢	**Cd**	**111**	**26.119**	ug/L	0.324	1	2	5574	1	KED
⎣	**Cd**	**114**	**25.931**	ug/L	0.461	1	6	13443	0	KED
⎡>	**Tb**	**159**		ug/L			498579	489147	3	Standard
⎣	**Pb**	**208**	**34.790**	ug/L	1.298	3	109	1413058	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46647	1	Standard
	Cl	37		ug/L			3416101	3405859	0	Standard
>	Sc	45		ug/L			429622	594943	1	Standard
	Cr	52	15.424	ug/L	0.093	0	16425	388245	1	Standard
	Cr	53	15.517	ug/L	0.102	0	102	43042	1	Standard
	Mn	55	249.521	ug/L	2.460	0	567	8564244	0	Standard
>	Ge	72		ug/L			22652	21286	3	KED
	Ni	60	18.460	ug/L	0.346	1	20	17569	2	KED
	Ni	62	18.434	ug/L	0.495	2	7	2882	5	KED
	Cu	63	24.700	ug/L	0.423	1	30	70032	3	KED
	Cu	65	24.571	ug/L	0.725	2	24	34400	2	KED
	Zn	66	101.763	ug/L	1.283	1	40	38282	2	KED
	Zn	67	101.524	ug/L	3.165	3	3	6525	6	KED
	As	75	2.650	ug/L	0.046	1	5	508	2	KED
	Y	89		ug/L			208501	486889	1	Standard
	Kr	83		ug/L			52	164	14	Standard
>	In-1	115		ug/L			6222	5878	1	KED
	Cd	111	0.097	ug/L	0.012	12	2	22	12	KED
	Cd	114	0.139	ug/L	0.014	9	6	78	7	KED
>	Tb	159		ug/L			498579	522849	3	Standard
	Pb	208	16.496	ug/L	0.527	3	109	716386	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49707	3	Standard
	Cl	37		ug/L			3416101	3375822	2	Standard
>	Sc	45		ug/L			429622	631410	2	Standard
	Cr	52	16.254	ug/L	0.332	2	16425	432749	0	Standard
	Cr	53	16.355	ug/L	0.094	0	102	48134	2	Standard
	Mn	55	361.561	ug/L	7.156	1	567	13166082	1	Standard
>	Ge	72		ug/L			22652	21940	3	KED
	Ni	60	19.399	ug/L	1.182	6	20	19009	3	KED
	Ni	62	20.068	ug/L	0.721	3	7	3230	0	KED
	Cu	63	36.371	ug/L	1.353	3	30	106211	0	KED
	Cu	65	36.300	ug/L	1.330	3	24	52357	0	KED
	Zn	66	146.723	ug/L	5.535	3	40	56849	1	KED
	Zn	67	147.496	ug/L	5.946	4	3	9758	2	KED
	As	75	3.885	ug/L	0.174	4	5	764	1	KED
	Y	89		ug/L			208501	578449	1	Standard
	Kr	83		ug/L			52	203	4	Standard
>	In-1	115		ug/L			6222	5878	2	KED
	Cd	111	0.286	ug/L	0.048	16	2	62	13	KED
	Cd	114	0.254	ug/L	0.036	14	6	137	11	KED
>	Tb	159		ug/L			498579	511039	3	Standard
	Pb	208	24.627	ug/L	0.893	3	109	1044983	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46574	0	Standard
	Cl	37		ug/L			3416101	3379169	1	Standard
>	Sc	45		ug/L			429622	620291	2	Standard
	Cr	52	16.437	ug/L	0.163	0	16425	429814	2	Standard
	Cr	53	16.626	ug/L	0.381	2	102	48058	0	Standard
	Mn	55	310.654	ug/L	1.107	0	567	11117349	2	Standard
>	Ge	72		ug/L			22652	20581	1	KED
	Ni	60	18.856	ug/L	0.425	2	20	17354	1	KED
	Ni	62	18.790	ug/L	0.725	3	7	2839	3	KED
	Cu	63	42.128	ug/L	0.806	1	30	115476	1	KED
	Cu	65	43.333	ug/L	0.599	1	24	58666	0	KED
	Zn	66	139.400	ug/L	1.715	1	40	50705	1	KED
	Zn	67	136.427	ug/L	3.426	2	3	8471	1	KED
	As	75	4.058	ug/L	0.128	3	5	749	2	KED
	Y	89		ug/L			208501	559074	0	Standard
	Kr	83		ug/L			52	189	11	Standard
>	In-1	115		ug/L			6222	5607	3	KED
	Cd	111	0.260	ug/L	0.013	5	2	54	7	KED
	Cd	114	0.305	ug/L	0.045	14	6	156	12	KED
>	Tb	159		ug/L			498579	504952	3	Standard
	Pb	208	32.193	ug/L	1.171	3	109	1349703	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	48674	1	Standard
	Cl	37		ug/L			3416101	3409450	1	Standard
>	Sc	45		ug/L			429622	586958	3	Standard
	Cr	52	14.692	ug/L	0.342	2	16425	365754	0	Standard
	Cr	53	14.966	ug/L	0.221	1	102	40948	1	Standard
	Mn	55	241.038	ug/L	5.247	2	567	8159092	1	Standard
>	Ge	72		ug/L			22652	21147	1	KED
	Ni	60	14.830	ug/L	0.291	1	20	14029	3	KED
	Ni	62	15.157	ug/L	0.503	3	7	2355	4	KED
	Cu	63	47.502	ug/L	0.903	1	30	133772	1	KED
	Cu	65	47.669	ug/L	1.367	2	24	66297	2	KED
	Zn	66	146.123	ug/L	4.631	3	40	54602	3	KED
	Zn	67	139.180	ug/L	2.017	1	3	8881	2	KED
	As	75	3.995	ug/L	0.157	3	5	758	4	KED
	Y	89		ug/L			208501	485316	1	Standard
	Kr	83		ug/L			52	172	15	Standard
>	In-1	115		ug/L			6222	5895	2	KED
	Cd	111	0.240	ug/L	0.017	7	2	53	4	KED
	Cd	114	0.266	ug/L	0.009	3	6	144	2	KED
>	Tb	159		ug/L			498579	512635	3	Standard
	Pb	208	21.533	ug/L	0.668	3	109	916743	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:13:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30368	2	Standard
	Cl	**37**		ug/L			3416101	3570879	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	419169	3	Standard
|	**Cr**	**52**	**50.270**	ug/L	1.224	2	16425	854922	0	Standard
|	**Cr**	**53**	**50.770**	ug/L	1.391	2	102	98937	0	Standard
⌊	**Mn**	**55**	**50.084**	ug/L	1.680	3	567	1210902	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21180	2	KED
|	**Ni**	**60**	**51.753**	ug/L	1.036	2	20	48976	1	KED
|	**Ni**	**62**	**51.052**	ug/L	2.579	5	7	7929	6	KED
|	**Cu**	**63**	**50.944**	ug/L	0.989	1	30	143703	2	KED
|	**Cu**	**65**	**51.042**	ug/L	0.865	1	24	71101	1	KED
|	**Zn**	**66**	**51.780**	ug/L	1.563	3	40	19408	4	KED
|	**Zn**	**67**	**50.621**	ug/L	1.036	2	3	3238	4	KED
⌊	**As**	**75**	**50.796**	ug/L	1.125	2	5	9592	3	KED
	Y	**89**		ug/L			208501	202177	1	Standard
	Kr	**83**		ug/L			52	60	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**50.886**	ug/L	1.092	2	2	10596	1	KED
⌊	**Cd**	**114**	**50.648**	ug/L	2.013	3	6	25613	0	KED
⌈>	**Tb**	**159**		ug/L			498579	476193	3	Standard
⌊	**Pb**	**208**	**53.265**	ug/L	1.057	1	109	2106985	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:20:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31339	3	Standard
	Cl	**37**		ug/L			3416101	3285110	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	418292	0	Standard
⎢	**Cr**	**52**	**0.003**	ug/L	0.016	599	16425	16035	0	Standard
⎢	**Cr**	**53**	**-0.010**	ug/L	0.004	37	102	80	9	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.001	74	567	580	4	Standard
⎡>	**Ge**	**72**		ug/L			22652	21236	2	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.006	182	20	15	38	KED
⎢	**Ni**	**62**	**-0.017**	ug/L	0.018	106	7	4	65	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.001	16499	30	28	11	KED
⎢	**Cu**	**65**	**-0.002**	ug/L	0.001	60	24	20	5	KED
⎢	**Zn**	**66**	**-0.021**	ug/L	0.022	107	40	30	28	KED
⎢	**Zn**	**67**	**0.014**	ug/L	0.047	331	3	4	65	KED
⎣	**As**	**75**	**0.004**	ug/L	0.008	242	5	6	27	KED
	Y	**89**		ug/L			208501	206206	1	Standard
	Kr	**83**		ug/L			52	48	18	Standard
⎡>	**In-1**	**115**		ug/L			6222	6125	1	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.006	110	2	3	41	KED
⎣	**Cd**	**114**	**-0.009**	ug/L	0.003	36	6	1	108	KED
⎡>	**Tb**	**159**		ug/L			498579	482087	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	80	109	119	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:24:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31215	3	Standard
	Cl	**37**		ug/L				3324914	1	Standard
⎡>	**Sc**	**45**		ug/L				423672	1	Standard
⎢	**Cr**	**52**		ug/L				16311	0	Standard
⎢	**Cr**	**53**		ug/L				93	12	Standard
⎣	**Mn**	**55**		ug/L				527	6	Standard
⎡>	**Ge**	**72**		ug/L				20993	1	KED
⎢	**Ni**	**60**		ug/L				13	55	KED
⎢	**Ni**	**62**		ug/L				8	13	KED
⎢	**Cu**	**63**		ug/L				34	20	KED
⎢	**Cu**	**65**		ug/L				19	33	KED
⎢	**Zn**	**66**		ug/L				36	29	KED
⎢	**Zn**	**67**		ug/L				4	24	KED
⎣	**As**	**75**		ug/L				5	65	KED
	Y	**89**		ug/L				210865	1	Standard
	Kr	**83**		ug/L				43	25	Standard
⎡>	**In-1**	**115**		ug/L				5860	1	KED
⎢	**Cd**	**111**		ug/L				2	65	KED
⎣	**Cd**	**114**		ug/L				6	64	KED
⎡>	**Tb**	**159**		ug/L				480478	3	Standard
⎣	**Pb**	**208**		ug/L				115	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:29:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30410	1	Standard
	Cl	**37**		ug/L			3324914	3533632	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	415267	1	Standard
⎢	**Cr**	**52**	**50.339**	ug/L	0.745	1	16311	848570	2	Standard
⎢	**Cr**	**53**	**50.964**	ug/L	0.136	0	93	98439	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.873	1	527	1227305	0	Standard
⎡>	**Ge**	**72**		ug/L			20993	20455	1	KED
⎢	**Ni**	**60**	**52.423**	ug/L	1.522	2	13	47904	1	KED
⎢	**Ni**	**62**	**50.669**	ug/L	0.498	0	8	7599	1	KED
⎢	**Cu**	**63**	**50.445**	ug/L	1.112	2	34	137412	1	KED
⎢	**Cu**	**65**	**52.156**	ug/L	0.999	1	19	70164	1	KED
⎢	**Zn**	**66**	**52.910**	ug/L	1.068	2	36	19145	0	KED
⎢	**Zn**	**67**	**50.709**	ug/L	3.410	6	4	3132	6	KED
⎣	**As**	**75**	**51.420**	ug/L	0.890	1	5	9376	0	KED
	Y	**89**		ug/L			210865	201534	0	Standard
	Kr	**83**		ug/L			43	54	27	Standard
⎡>	**In-1**	**115**		ug/L			5860	5660	2	KED
⎢	**Cd**	**111**	**51.014**	ug/L	1.517	2	2	10458	1	KED
⎣	**Cd**	**114**	**51.849**	ug/L	2.429	4	6	25813	2	KED
⎡>	**Tb**	**159**		ug/L			480478	479037	3	Standard
⎣	**Pb**	**208**	**53.159**	ug/L	1.813	3	115	2114474	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:36:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31165	2	Standard
	Cl	**37**		ug/L			3324914	3329784	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	426875	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.012	246	16311	16356	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.004	173	93	89	8	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.002	284	527	544	6	Standard
⌈>	**Ge**	**72**		ug/L			20993	20742	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	217	13	12	36	KED
|	**Ni**	**62**	**-0.037**	ug/L	0.007	17	8	2	43	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	299	34	28	52	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	200	19	17	29	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.025	715	36	34	24	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.002	19	4	3	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	2281	5	5	22	KED
	Y	**89**		ug/L			210865	208508	2	Standard
	Kr	**83**		ug/L			43	39	12	Standard
⌈>	**In-1**	**115**		ug/L			5860	5855	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	1	2	0		KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.004	58	6	2	90	KED
⌈>	**Tb**	**159**		ug/L			480478	486295	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	79	115	144	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:40:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47430	1	Standard
	Cl	37		ug/L			3324914	3368037	1	Standard
>	Sc	45		ug/L			423672	601779	0	Standard
	Cr	52	16.522	ug/L	0.372	2	16311	419148	1	Standard
	Cr	53	16.646	ug/L	0.181	1	93	46679	0	Standard
	Mn	55	327.325	ug/L	7.378	2	527	11363166	1	Standard
>	Ge	72		ug/L			20993	21197	3	KED
	Ni	60	16.507	ug/L	0.507	3	13	15641	3	KED
	Ni	62	16.177	ug/L	0.634	3	8	2518	1	KED
	Cu	63	51.946	ug/L	1.767	3	34	146561	0	KED
	Cu	65	52.307	ug/L	2.288	4	19	72866	1	KED
	Zn	66	195.429	ug/L	7.415	3	36	73139	0	KED
	Zn	67	181.352	ug/L	1.323	0	4	11598	2	KED
	As	75	8.616	ug/L	0.464	5	5	1631	2	KED
	Y	89		ug/L			210865	532450	2	Standard
	Kr	83		ug/L			43	184	6	Standard
>	In-1	115		ug/L			5860	5959	1	KED
	Cd	111	0.320	ug/L	0.013	3	2	71	3	KED
	Cd	114	0.335	ug/L	0.034	10	6	182	11	KED
>	Tb	159		ug/L			480478	513542	3	Standard
	Pb	208	31.833	ug/L	1.256	3	115	1357412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:45:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46760	2	Standard
	Cl	37		ug/L			3324914	3370349	2	Standard
>	Sc	45		ug/L			423672	616916	7	Standard
	Cr	52	18.433	ug/L	0.905	4	16311	475752	4	Standard
	Cr	53	18.375	ug/L	0.837	4	93	52704	3	Standard
	Mn	55	328.329	ug/L	21.549	6	527	11648759	0	Standard
>	Ge	72		ug/L			20993	21133	1	KED
	Ni	60	17.603	ug/L	0.206	1	13	16631	0	KED
	Ni	62	17.939	ug/L	0.688	3	8	2784	2	KED
	Cu	63	39.902	ug/L	0.541	1	34	112315	1	KED
	Cu	65	41.396	ug/L	1.102	2	19	57544	2	KED
	Zn	66	129.299	ug/L	0.136	0	36	48294	1	KED
	Zn	67	135.131	ug/L	3.443	2	4	8617	2	KED
	As	75	4.152	ug/L	0.070	1	5	787	2	KED
	Y	89		ug/L			210865	562736	4	Standard
	Kr	83		ug/L			43	194	3	Standard
>	In-1	115		ug/L			5860	5645	2	KED
	Cd	111	0.253	ug/L	0.012	4	2	53	5	KED
	Cd	114	0.258	ug/L	0.028	10	6	134	11	KED
>	Tb	159		ug/L			480478	509158	8	Standard
	Pb	208	26.696	ug/L	1.971	7	115	1125158	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-34
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:49:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53033	2	Standard
	Cl	37		ug/L			3324914	3435881	2	Standard
>	Sc	45		ug/L			423672	639136	2	Standard
	Cr	52	15.610	ug/L	0.268	1	16311	421929	1	Standard
	Cr	53	15.992	ug/L	0.334	2	93	47629	2	Standard
	Mn	55	366.184	ug/L	3.439	0	527	13500947	1	Standard
>	Ge	72		ug/L			20993	20959	1	KED
	Ni	60	19.547	ug/L	0.592	3	13	18311	1	KED
	Ni	62	18.803	ug/L	0.613	3	8	2894	2	KED
	Cu	63	33.498	ug/L	0.229	0	34	93520	0	KED
	Cu	65	34.601	ug/L	0.928	2	19	47696	1	KED
	Zn	66	135.814	ug/L	2.312	1	36	50306	2	KED
	Zn	67	129.502	ug/L	4.251	3	4	8192	4	KED
	As	75	3.670	ug/L	0.067	1	5	690	0	KED
	Y	89		ug/L			210865	586010	1	Standard
	Kr	83		ug/L			43	198	7	Standard
>	In-1	115		ug/L			5860	5826	3	KED
	Cd	111	0.237	ug/L	0.042	17	2	52	13	KED
	Cd	114	0.226	ug/L	0.040	17	6	122	16	KED
>	Tb	159		ug/L			480478	509025	4	Standard
	Pb	208	22.278	ug/L	0.970	4	115	941331	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-35
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:53:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53495	1	Standard
	Cl	37		ug/L			3324914	3442905	3	Standard
>	Sc	45		ug/L			423672	649120	1	Standard
|	Cr	52	16.129	ug/L	0.165	1	16311	441961	0	Standard
|	Cr	53	16.446	ug/L	0.311	1	93	49740	0	Standard
_	Mn	55	352.484	ug/L	7.758	2	527	13197249	0	Standard
>	Ge	72		ug/L			20993	21571	0	KED
|	Ni	60	19.398	ug/L	0.279	1	13	18708	1	KED
|	Ni	62	19.245	ug/L	1.152	5	8	3049	5	KED
|	Cu	63	33.397	ug/L	0.874	2	34	95960	2	KED
|	Cu	65	34.057	ug/L	0.866	2	19	48327	2	KED
|	Zn	66	119.194	ug/L	1.225	1	36	45446	1	KED
|	Zn	67	115.284	ug/L	4.312	3	4	7506	4	KED
_	As	75	3.665	ug/L	0.052	1	5	710	1	KED
	Y	89		ug/L			210865	596151	1	Standard
	Kr	83		ug/L			43	217	4	Standard
>	In-1	115		ug/L			5860	5762	3	KED
|	Cd	111	0.243	ug/L	0.016	6	2	53	7	KED
_	Cd	114	0.257	ug/L	0.014	5	6	136	2	KED
>	Tb	159		ug/L			480478	512855	1	Standard
_	Pb	208	23.389	ug/L	0.661	2	115	996579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-36
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:58:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	51564	1	Standard
	Cl	37		ug/L			3324914	3466463	0	Standard
>	Sc	45		ug/L			423672	618270	1	Standard
	Cr	52	15.229	ug/L	0.337	2	16311	398784	1	Standard
	Cr	53	15.418	ug/L	0.190	1	93	44429	0	Standard
	Mn	55	235.788	ug/L	5.491	2	527	8409526	1	Standard
>	Ge	72		ug/L			20993	20958	0	KED
	Ni	60	22.558	ug/L	0.091	0	13	21134	0	KED
	Ni	62	21.853	ug/L	0.428	1	8	3362	1	KED
	Cu	63	27.442	ug/L	0.702	2	34	76617	2	KED
	Cu	65	28.159	ug/L	0.302	1	19	38827	0	KED
	Zn	66	103.456	ug/L	2.217	2	36	38326	1	KED
	Zn	67	102.675	ug/L	1.600	1	4	6494	1	KED
	As	75	2.435	ug/L	0.090	3	5	460	3	KED
	Y	89		ug/L			210865	490363	1	Standard
	Kr	83		ug/L			43	172	18	Standard
>	In-1	115		ug/L			5860	5712	2	KED
	Cd	111	0.113	ug/L	0.040	35	2	25	33	KED
	Cd	114	0.114	ug/L	0.007	6	6	63	7	KED
>	Tb	159		ug/L			480478	520040	1	Standard
	Pb	208	15.939	ug/L	0.349	2	115	688799	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-38
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:02:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56130	2	Standard
	Cl	37		ug/L			3324914	3449843	1	Standard
>	Sc	45		ug/L			423672	655524	3	Standard
	Cr	52	15.694	ug/L	0.226	1	16311	434877	2	Standard
	Cr	53	15.833	ug/L	0.337	2	93	48350	1	Standard
	Mn	55	251.145	ug/L	6.787	2	527	9492078	0	Standard
>	Ge	72		ug/L			20993	22152	2	KED
	Ni	60	21.680	ug/L	0.609	2	13	21461	1	KED
	Ni	62	21.291	ug/L	0.602	2	8	3462	2	KED
	Cu	63	24.189	ug/L	0.437	1	34	71367	0	KED
	Cu	65	24.245	ug/L	0.176	0	19	35335	1	KED
	Zn	66	49.693	ug/L	1.295	2	36	19470	0	KED
	Zn	67	56.025	ug/L	2.006	3	4	3745	1	KED
	As	75	2.313	ug/L	0.089	3	5	462	1	KED
	Y	89		ug/L			210865	583850	0	Standard
	Kr	83		ug/L			43	213	12	Standard
>	In-1	115		ug/L			5860	5981	1	KED
	Cd	111	0.069	ug/L	0.010	14	2	17	11	KED
	Cd	114	0.056	ug/L	0.020	36	6	35	28	KED
>	Tb	159		ug/L			480478	530328	2	Standard
	Pb	208	4.009	ug/L	0.093	2	115	176724	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-39
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:06:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	52735	1	Standard
	Cl	37		ug/L			3324914	3391437	0	Standard
>	Sc	45		ug/L			423672	626958	1	Standard
	Cr	52	14.503	ug/L	0.069	0	16311	386284	1	Standard
	Cr	53	14.505	ug/L	0.222	1	93	42393	1	Standard
	Mn	55	240.178	ug/L	4.785	1	527	8686024	1	Standard
>	Ge	72		ug/L			20993	21421	1	KED
	Ni	60	18.640	ug/L	0.499	2	13	17847	1	KED
	Ni	62	19.561	ug/L	0.726	3	8	3076	2	KED
	Cu	63	22.002	ug/L	0.417	1	34	62784	0	KED
	Cu	65	22.445	ug/L	0.957	4	19	31621	2	KED
	Zn	66	46.606	ug/L	1.024	2	36	17664	1	KED
	Zn	67	53.270	ug/L	0.470	0	4	3446	1	KED
	As	75	2.073	ug/L	0.084	4	5	401	2	KED
	Y	89		ug/L			210865	578527	1	Standard
	Kr	83		ug/L			43	182	8	Standard
>	In-1	115		ug/L			5860	5952	2	KED
	Cd	111	0.065	ug/L	0.021	32	2	16	25	KED
	Cd	114	0.054	ug/L	0.013	23	6	34	20	KED
>	Tb	159		ug/L			480478	530871	3	Standard
	Pb	208	3.832	ug/L	0.120	3	115	169043	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	50097	1	Standard
	Cl	37		ug/L			3324914	3416962	0	Standard
>	Sc	45		ug/L			423672	579814	3	Standard
	Cr	52	13.140	ug/L	0.413	3	16311	325653	2	Standard
	Cr	53	13.489	ug/L	0.346	2	93	36455	1	Standard
	Mn	55	210.954	ug/L	3.243	1	527	7054531	1	Standard
>	Ge	72		ug/L			20993	21340	1	KED
	Ni	60	14.865	ug/L	0.177	1	13	14185	1	KED
	Ni	62	15.054	ug/L	0.633	4	8	2360	3	KED
	Cu	63	17.656	ug/L	0.427	2	34	50196	1	KED
	Cu	65	17.539	ug/L	0.382	2	19	24626	0	KED
	Zn	66	37.973	ug/L	1.030	2	36	14343	1	KED
	Zn	67	43.334	ug/L	1.166	2	4	2794	4	KED
	As	75	2.114	ug/L	0.086	4	5	407	3	KED
	Y	89		ug/L			210865	504175	1	Standard
	Kr	83		ug/L			43	146	9	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.062	ug/L	0.016	25	2	14	19	KED
	Cd	114	0.071	ug/L	0.019	27	6	41	21	KED
>	Tb	159		ug/L			480478	507146	3	Standard
	Pb	208	3.376	ug/L	0.111	3	115	142276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:15:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59899	1	Standard
	Cl	37		ug/L			3324914	3412739	1	Standard
>	Sc	45		ug/L			423672	621114	0	Standard
	Cr	52	14.759	ug/L	0.388	2	16311	389062	2	Standard
	Cr	53	15.083	ug/L	0.258	1	93	43672	2	Standard
	Mn	55	219.746	ug/L	5.425	2	527	7875162	2	Standard
>	Ge	72		ug/L			20993	20560	0	KED
	Ni	60	19.248	ug/L	0.084	0	13	17694	0	KED
	Ni	62	19.239	ug/L	0.382	1	8	2905	2	KED
	Cu	63	21.316	ug/L	0.161	0	34	58394	0	KED
	Cu	65	21.715	ug/L	0.462	2	19	29378	1	KED
	Zn	66	46.140	ug/L	1.378	2	36	16790	3	KED
	Zn	67	52.541	ug/L	1.287	2	4	3262	2	KED
	As	75	2.213	ug/L	0.064	2	5	411	2	KED
	Y	89		ug/L			210865	563606	1	Standard
	Kr	83		ug/L			43	180	8	Standard
>	In-1	115		ug/L			5860	5618	1	KED
	Cd	111	0.069	ug/L	0.005	7	2	16	5	KED
	Cd	114	0.047	ug/L	0.010	20	6	29	16	KED
>	Tb	159		ug/L			480478	517401	1	Standard
	Pb	208	3.772	ug/L	0.088	2	115	162252	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:20:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56661	0	Standard
	Cl	37		ug/L			3324914	3307978	1	Standard
>	Sc	45		ug/L			423672	586636	1	Standard
	Cr	52	15.760	ug/L	0.120	0	16311	390865	2	Standard
	Cr	53	15.567	ug/L	0.186	1	93	42563	1	Standard
	Mn	55	228.346	ug/L	2.803	1	527	7727400	0	Standard
>	Ge	72		ug/L			20993	20967	0	KED
	Ni	60	16.033	ug/L	0.324	2	13	15030	1	KED
	Ni	62	15.699	ug/L	0.381	2	8	2419	1	KED
	Cu	63	158.739	ug/L	3.297	2	34	443279	2	KED
	Cu	65	157.610	ug/L	3.790	2	19	217311	1	KED
	Zn	66	119.814	ug/L	0.740	0	36	44402	0	KED
	Zn	67	117.694	ug/L	0.712	0	4	7447	0	KED
	As	75	3.950	ug/L	0.136	3	5	743	2	KED
	Y	89		ug/L			210865	490065	1	Standard
	Kr	83		ug/L			43	151	13	Standard
>	In-1	115		ug/L			5860	5856	0	KED
	Cd	111	0.150	ug/L	0.016	10	2	33	9	KED
	Cd	114	0.120	ug/L	0.044	36	6	68	33	KED
>	Tb	159		ug/L			480478	499582	4	Standard
	Pb	208	17.333	ug/L	0.748	4	115	718816	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:27:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	32965	3	Standard
	Cl	**37**		ug/L			3324914	3611272	1	Standard
⎡>	**Sc**	**45**		ug/L			423672	441521	1	Standard
⎢	**Cr**	**52**	**51.036**	ug/L	0.636	1	16311	914511	1	Standard
⎢	**Cr**	**53**	**51.230**	ug/L	0.666	1	93	105210	2	Standard
⎣	**Mn**	**55**	**51.491**	ug/L	0.290	0	527	1312008	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	21313	1	KED
⎢	**Ni**	**60**	**50.124**	ug/L	0.848	1	13	47731	1	KED
⎢	**Ni**	**62**	**50.043**	ug/L	1.188	2	8	7818	0	KED
⎢	**Cu**	**63**	**49.092**	ug/L	0.841	1	34	139333	0	KED
⎢	**Cu**	**65**	**50.442**	ug/L	1.435	2	19	70693	1	KED
⎢	**Zn**	**66**	**51.093**	ug/L	0.763	1	36	19267	2	KED
⎢	**Zn**	**67**	**50.557**	ug/L	0.661	1	4	3254	1	KED
⎣	**As**	**75**	**49.405**	ug/L	1.132	2	5	9386	1	KED
	Y	**89**		ug/L			210865	215921	2	Standard
	Kr	**83**		ug/L			43	60	5	Standard
⎡>	**In-1**	**115**		ug/L			5860	6118	2	KED
⎢	**Cd**	**111**	**50.653**	ug/L	1.044	2	2	11225	0	KED
⎣	**Cd**	**114**	**50.722**	ug/L	0.820	1	6	27308	1	KED
⎡>	**Tb**	**159**		ug/L			480478	497473	4	Standard
⎣	**Pb**	**208**	**53.836**	ug/L	1.820	3	115	2223547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:34:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30093	0	Standard
	Cl	**37**		ug/L			3324914	3264181	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	404319	0	Standard
⎢	**Cr**	**52**	**-0.006**	ug/L	0.024	395	16311	15466	1	Standard
⎢	**Cr**	**53**	**-0.000**	ug/L	0.006	1340	93	88	13	Standard
⎣	**Mn**	**55**	**0.004**	ug/L	0.000	10	527	602	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	20183	2	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.002	2748	13	13	14	KED
⎢	**Ni**	**62**	**-0.028**	ug/L	0.013	46	8	3	50	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.004	171	34	26	47	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	66	19	13	20	KED
⎢	**Zn**	**66**	**-0.039**	ug/L	0.015	39	36	20	24	KED
⎢	**Zn**	**67**	**-0.018**	ug/L	0.065	365	4	3	124	KED
⎣	**As**	**75**	**0.012**	ug/L	0.002	19	5	7	6	KED
	Y	**89**		ug/L			210865	198781	1	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⎡>	**In-1**	**115**		ug/L			5860	5576	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.010	364	2	1	124	KED
⎣	**Cd**	**114**	**-0.008**	ug/L	0.004	47	6	1	101	KED
⎡>	**Tb**	**159**		ug/L			480478	458416	1	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	158	115	112	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53197	2	Standard
	Cl	37		ug/L			3324914	3384197	1	Standard
>	Sc	45		ug/L			423672	619722	2	Standard
	Cr	52	14.181	ug/L	0.276	1	16311	373894	2	Standard
	Cr	53	14.477	ug/L	0.071	0	93	41824	1	Standard
	Mn	55	251.992	ug/L	0.481	0	527	9009600	1	Standard
>	Ge	72		ug/L			20993	21749	2	KED
	Ni	60	16.085	ug/L	0.374	2	13	15637	0	KED
	Ni	62	16.292	ug/L	0.561	3	8	2603	3	KED
	Cu	63	82.253	ug/L	1.968	2	34	238173	1	KED
	Cu	65	83.079	ug/L	2.891	3	19	118773	0	KED
	Zn	66	85.056	ug/L	2.781	3	36	32690	0	KED
	Zn	67	85.857	ug/L	0.420	0	4	5637	2	KED
	As	75	3.251	ug/L	0.179	5	5	635	2	KED
	Y	89		ug/L			210865	524566	2	Standard
	Kr	83		ug/L			43	171	16	Standard
>	In-1	115		ug/L			5860	5843	2	KED
	Cd	111	0.126	ug/L	0.020	15	2	28	16	KED
	Cd	114	0.129	ug/L	0.030	23	6	72	19	KED
>	Tb	159		ug/L			480478	510610	3	Standard
	Pb	208	9.229	ug/L	0.316	3	115	391442	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:43:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	51865	3	Standard
	Cl	37		ug/L			3324914	3366801	1	Standard
>	Sc	45		ug/L			423672	620310	2	Standard
	Cr	52	15.786	ug/L	0.255	1	16311	413795	1	Standard
	Cr	53	15.909	ug/L	0.372	2	93	45977	1	Standard
	Mn	55	279.736	ug/L	5.804	2	527	10007123	0	Standard
>	Ge	72		ug/L			20993	21035	1	KED
	Ni	60	17.930	ug/L	0.280	1	13	16862	1	KED
	Ni	62	18.359	ug/L	0.316	1	8	2836	0	KED
	Cu	63	147.537	ug/L	2.988	2	34	413272	2	KED
	Cu	65	151.990	ug/L	3.177	2	19	210210	0	KED
	Zn	66	166.818	ug/L	3.578	2	36	61992	0	KED
	Zn	67	157.778	ug/L	3.633	2	4	10012	0	KED
	As	75	3.962	ug/L	0.091	2	5	748	3	KED
	Y	89		ug/L			210865	527866	0	Standard
	Kr	83		ug/L			43	186	2	Standard
>	In-1	115		ug/L			5860	5743	1	KED
	Cd	111	0.183	ug/L	0.020	11	2	40	11	KED
	Cd	114	0.137	ug/L	0.032	23	6	75	22	KED
>	Tb	159		ug/L			480478	505546	4	Standard
	Pb	208	18.854	ug/L	0.585	3	115	791521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:47:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	66838	2	Standard
	Cl	37		ug/L			3324914	3396536	2	Standard
>	Sc	45		ug/L			423672	614888	1	Standard
	Cr	52	16.477	ug/L	0.220	1	16311	427204	1	Standard
	Cr	53	16.367	ug/L	0.362	2	93	46902	2	Standard
	Mn	55	344.942	ug/L	3.316	0	527	12235528	0	Standard
>	Ge	72		ug/L			20993	21055	2	KED
	Ni	60	17.420	ug/L	0.048	0	13	16399	2	KED
	Ni	62	17.887	ug/L	0.303	1	8	2766	1	KED
	Cu	63	299.634	ug/L	4.088	1	34	840080	1	KED
	Cu	65	303.440	ug/L	4.792	1	19	420097	1	KED
	Zn	66	267.295	ug/L	5.754	2	36	99429	2	KED
	Zn	67	251.381	ug/L	4.551	1	4	15972	3	KED
	As	75	7.441	ug/L	0.100	1	5	1402	3	KED
	Y	89		ug/L			210865	524948	1	Standard
	Kr	83		ug/L			43	177	4	Standard
>	In-1	115		ug/L			5860	5742	1	KED
	Cd	111	0.235	ug/L	0.015	6	2	51	4	KED
	Cd	114	0.264	ug/L	0.049	18	6	139	18	KED
>	Tb	159		ug/L			480478	510693	3	Standard
	Pb	208	31.171	ug/L	1.169	3	115	1321876	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:52:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	60756	3	Standard
	Cl	**37**		ug/L			3324914	3487794	2	Standard
>	**Sc**	**45**		ug/L			423672	658659	1	Standard
	Cr	**52**	**19.231**	ug/L	0.104	0	16311	529891	1	Standard
	Cr	**53**	**19.629**	ug/L	0.337	1	93	60229	2	Standard
	Mn	**55**	**312.870**	ug/L	3.636	1	527	11889927	2	Standard
>	**Ge**	**72**		ug/L			20993	20872	1	KED
	Ni	**60**	**20.331**	ug/L	0.362	1	13	18971	2	KED
	Ni	**62**	**20.419**	ug/L	0.229	1	8	3129	1	KED
	Cu	**63**	**174.617**	ug/L	5.353	3	34	485202	1	KED
	Cu	**65**	**177.058**	ug/L	1.385	0	19	243025	1	KED
	Zn	**66**	**172.556**	ug/L	6.360	3	36	63623	2	KED
	Zn	**67**	**171.433**	ug/L	3.933	2	4	10794	0	KED
	As	**75**	**3.678**	ug/L	0.143	3	5	689	2	KED
	Y	**89**		ug/L			210865	578852	0	Standard
	Kr	**83**		ug/L			43	184	4	Standard
>	**In-1**	**115**		ug/L			5860	5582	2	KED
	Cd	**111**	**0.298**	ug/L	0.068	22	2	62	24	KED
	Cd	**114**	**0.265**	ug/L	0.039	14	6	135	13	KED
>	**Tb**	**159**		ug/L			480478	532396	1	Standard
	Pb	**208**	**43.157**	ug/L	1.236	2	115	1909113	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:56:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	58924	1	Standard
	Cl	37		ug/L			3324914	3370048	0	Standard
>	Sc	45		ug/L			423672	617373	0	Standard
	Cr	52	21.832	ug/L	0.177	0	16311	560643	1	Standard
	Cr	53	21.714	ug/L	0.394	1	93	62433	2	Standard
	Mn	55	265.880	ug/L	1.343	0	527	9470337	0	Standard
>	Ge	72		ug/L			20993	21074	1	KED
	Ni	60	21.377	ug/L	0.131	0	13	20140	1	KED
	Ni	62	21.451	ug/L	0.056	0	8	3319	1	KED
	Cu	63	128.660	ug/L	0.628	0	34	361106	1	KED
	Cu	65	130.741	ug/L	1.364	1	19	181193	0	KED
	Zn	66	227.423	ug/L	0.447	0	36	84680	1	KED
	Zn	67	215.190	ug/L	5.001	2	4	13680	1	KED
	As	75	3.876	ug/L	0.103	2	5	733	2	KED
	Y	89		ug/L			210865	554098	2	Standard
	Kr	83		ug/L			43	175	5	Standard
>	In-1	115		ug/L			5860	5813	0	KED
	Cd	111	0.338	ug/L	0.039	11	2	73	11	KED
	Cd	114	0.341	ug/L	0.006	1	6	180	1	KED
>	Tb	159		ug/L			480478	501633	3	Standard
	Pb	208	67.113	ug/L	2.232	3	115	2795636	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55879	5	Standard
	Cl	37		ug/L			3324914	3391724	1	Standard
>	Sc	45		ug/L			423672	584864	1	Standard
	Cr	52	17.323	ug/L	0.138	0	16311	426093	2	Standard
	Cr	53	17.444	ug/L	0.175	1	93	47536	1	Standard
	Mn	55	256.429	ug/L	4.069	1	527	8650925	0	Standard
>	Ge	72		ug/L			20993	21016	0	KED
	Ni	60	15.312	ug/L	0.363	2	13	14388	1	KED
	Ni	62	15.874	ug/L	0.508	3	8	2452	3	KED
	Cu	63	64.773	ug/L	0.745	1	34	181300	0	KED
	Cu	65	64.950	ug/L	1.139	1	19	89777	1	KED
	Zn	66	164.267	ug/L	1.606	0	36	61003	0	KED
	Zn	67	156.623	ug/L	1.698	1	4	9932	1	KED
	As	75	4.273	ug/L	0.070	1	5	805	1	KED
	Y	89		ug/L			210865	476907	0	Standard
	Kr	83		ug/L			43	163	5	Standard
>	In-1	115		ug/L			5860	5596	2	KED
	Cd	111	0.273	ug/L	0.027	10	2	57	11	KED
	Cd	114	0.279	ug/L	0.035	12	6	143	11	KED
>	Tb	159		ug/L			480478	497986	2	Standard
	Pb	208	22.666	ug/L	0.532	2	115	937763	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:05:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	57831	1	Standard
	Cl	37		ug/L			3324914	3420381	1	Standard
>	Sc	45		ug/L			423672	598825	2	Standard
	Cr	52	25.556	ug/L	0.604	2	16311	632401	1	Standard
	Cr	53	25.854	ug/L	0.428	1	93	72062	2	Standard
	Mn	55	295.355	ug/L	4.829	1	527	10200949	1	Standard
>	Ge	72		ug/L			20993	21303	3	KED
	Ni	60	17.800	ug/L	0.779	4	13	16947	4	KED
	Ni	62	17.679	ug/L	0.306	1	8	2765	2	KED
	Cu	63	69.250	ug/L	2.212	3	34	196362	2	KED
	Cu	65	69.809	ug/L	0.421	0	19	97819	3	KED
	Zn	66	177.891	ug/L	3.546	1	36	66932	2	KED
	Zn	67	188.821	ug/L	0.844	0	4	12138	4	KED
	As	75	4.955	ug/L	0.133	2	5	945	1	KED
	Y	89		ug/L			210865	515122	1	Standard
	Kr	83		ug/L			43	168	14	Standard
>	In-1	115		ug/L			5860	5688	2	KED
	Cd	111	0.332	ug/L	0.019	5	2	70	3	KED
	Cd	114	0.302	ug/L	0.037	12	6	157	11	KED
>	Tb	159		ug/L			480478	507345	2	Standard
	Pb	208	35.143	ug/L	0.833	2	115	1481052	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:09:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56409	4	Standard
	Cl	37		ug/L			3324914	3493037	0	Standard
>	Sc	45		ug/L			423672	588963	2	Standard
	Cr	52	16.558	ug/L	0.195	1	16311	411058	1	Standard
	Cr	53	16.775	ug/L	0.056	0	93	46038	1	Standard
	Mn	55	268.768	ug/L	7.479	2	527	9129249	0	Standard
>	Ge	72		ug/L			20993	21042	0	KED
	Ni	60	17.956	ug/L	0.120	0	13	16893	0	KED
	Ni	62	17.686	ug/L	0.379	2	8	2734	1	KED
	Cu	63	38.342	ug/L	0.262	0	34	107475	1	KED
	Cu	65	38.931	ug/L	0.301	0	19	53892	1	KED
	Zn	66	112.545	ug/L	2.026	1	36	41861	2	KED
	Zn	67	140.182	ug/L	1.154	0	4	8901	0	KED
	As	75	3.268	ug/L	0.158	4	5	618	4	KED
	Y	89		ug/L			210865	498858	1	Standard
	Kr	83		ug/L			43	129	14	Standard
>	In-1	115		ug/L			5860	5514	1	KED
	Cd	111	0.256	ug/L	0.041	16	2	53	16	KED
	Cd	114	0.276	ug/L	0.032	11	6	139	10	KED
>	Tb	159		ug/L			480478	508471	5	Standard
	Pb	208	26.628	ug/L	1.257	4	115	1123426	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-25
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:14:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55168	1	Standard
	Cl	37		ug/L			3324914	3440549	2	Standard
>	Sc	45		ug/L			423672	635485	1	Standard
	Cr	52	16.070	ug/L	0.229	1	16311	431248	2	Standard
	Cr	53	16.360	ug/L	0.150	0	93	48452	1	Standard
	Mn	55	334.114	ug/L	9.380	2	527	12247891	2	Standard
>	Ge	72		ug/L			20993	20516	2	KED
	Ni	60	17.893	ug/L	0.574	3	13	16407	1	KED
	Ni	62	17.766	ug/L	0.354	1	8	2677	2	KED
	Cu	63	43.485	ug/L	0.688	1	34	118813	0	KED
	Cu	65	44.186	ug/L	1.622	3	19	59607	2	KED
	Zn	66	145.151	ug/L	3.640	2	36	52615	1	KED
	Zn	67	137.829	ug/L	4.325	3	4	8530	1	KED
	As	75	3.428	ug/L	0.128	3	5	632	4	KED
	Y	89		ug/L			210865	577981	0	Standard
	Kr	83		ug/L			43	187	14	Standard
>	In-1	115		ug/L			5860	5625	1	KED
	Cd	111	0.293	ug/L	0.023	7	2	61	6	KED
	Cd	114	0.273	ug/L	0.018	6	6	141	6	KED
>	Tb	159		ug/L			480478	518871	1	Standard
	Pb	208	30.997	ug/L	0.795	2	115	1336219	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-26
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	58886	0	Standard
	Cl	37		ug/L			3324914	3401391	1	Standard
>	Sc	45		ug/L			423672	611363	1	Standard
	Cr	52	14.816	ug/L	0.184	1	16311	384341	2	Standard
	Cr	53	14.908	ug/L	0.240	1	93	42493	2	Standard
	Mn	55	330.629	ug/L	5.954	1	527	11660014	0	Standard
>	Ge	72		ug/L			20993	21424	0	KED
	Ni	60	17.286	ug/L	0.269	1	13	16560	1	KED
	Ni	62	17.264	ug/L	0.386	2	8	2717	2	KED
	Cu	63	35.504	ug/L	0.371	1	34	101332	1	KED
	Cu	65	35.814	ug/L	0.192	0	19	50476	0	KED
	Zn	66	132.881	ug/L	1.609	1	36	50317	1	KED
	Zn	67	126.361	ug/L	3.197	2	4	8170	2	KED
	As	75	3.639	ug/L	0.152	4	5	700	4	KED
	Y	89		ug/L			210865	564808	1	Standard
	Kr	83		ug/L			43	184	16	Standard
>	In-1	115		ug/L			5860	6013	1	KED
	Cd	111	0.239	ug/L	0.025	10	2	54	10	KED
	Cd	114	0.229	ug/L	0.033	14	6	127	14	KED
>	Tb	159		ug/L			480478	514463	3	Standard
	Pb	208	24.244	ug/L	0.723	2	115	1035773	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:26:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31867	2	Standard
	Cl	**37**		ug/L			3324914	3553555	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	411155	2	Standard
|	**Cr**	**52**	**50.318**	ug/L	0.946	1	16311	839634	0	Standard
|	**Cr**	**53**	**50.103**	ug/L	0.527	1	93	95819	2	Standard
⌊	**Mn**	**55**	**51.220**	ug/L	0.354	0	527	1215524	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	20963	1	KED
|	**Ni**	**60**	**51.785**	ug/L	0.802	1	13	48508	1	KED
|	**Ni**	**62**	**51.093**	ug/L	0.143	0	8	7854	1	KED
|	**Cu**	**63**	**50.499**	ug/L	0.978	1	34	140988	1	KED
|	**Cu**	**65**	**50.551**	ug/L	0.872	1	19	69697	0	KED
|	**Zn**	**66**	**51.345**	ug/L	1.017	1	36	19046	2	KED
|	**Zn**	**67**	**51.179**	ug/L	1.281	2	4	3241	3	KED
⌊	**As**	**75**	**50.172**	ug/L	1.082	2	5	9376	0	KED
	Y	**89**		ug/L			210865	197236	2	Standard
	Kr	**83**		ug/L			43	57	11	Standard
⌈>	**In-1**	**115**		ug/L			5860	5407	1	KED
|	**Cd**	**111**	**51.898**	ug/L	0.494	0	2	10169	0	KED
⌊	**Cd**	**114**	**53.497**	ug/L	0.373	0	6	25468	1	KED
⌈>	**Tb**	**159**		ug/L			480478	467036	3	Standard
⌊	**Pb**	**208**	**53.906**	ug/L	1.877	3	115	2090397	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:33:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31022	3	Standard
	Cl	**37**		ug/L			3324914	3277195	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	397897	0	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.027	190	16311	15541	1	Standard
|	**Cr**	**53**	**0.001**	ug/L	0.008	597	93	90	16	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	11	527	672	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	20621	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.002	509	13	13	14	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.029	375	8	6	62	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	60	34	50	20	KED
|	**Cu**	**65**	**0.007**	ug/L	0.003	43	19	29	15	KED
|	**Zn**	**66**	**0.059**	ug/L	0.039	65	36	57	25	KED
|	**Zn**	**67**	**0.032**	ug/L	0.064	198	4	6	62	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.004	61	5	4	19	KED
	Y	**89**		ug/L			210865	197843	2	Standard
	Kr	**83**		ug/L			43	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5860	5695	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	95	2	1	34	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	74	6	3	69	KED
⌈>	**Tb**	**159**		ug/L			480478	452103	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	3	115	251	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-30
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:37:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59152	4	Standard
	Cl	37		ug/L			3324914	3435177	4	Standard
>	Sc	45		ug/L			423672	584804	3	Standard
	Cr	52	17.182	ug/L	0.410	2	16311	422604	2	Standard
	Cr	53	17.075	ug/L	0.172	1	93	46541	4	Standard
	Mn	55	378.718	ug/L	6.523	1	527	12778607	3	Standard
>	Ge	72		ug/L			20993	20917	1	KED
	Ni	60	17.923	ug/L	0.525	2	13	16759	2	KED
	Ni	62	20.533	ug/L	0.531	2	8	3153	2	KED
	Cu	63	1040.504	ug/L	9.440	0	34	2898097	0	KED
	Cu	65	1018.154	ug/L	12.658	1	19	1400619	2	KED
	Zn	66	428.838	ug/L	5.562	1	36	158462	2	KED
	Zn	67	391.434	ug/L	4.387	1	4	24700	1	KED
	As	75	10.788	ug/L	0.234	2	5	2016	1	KED
	Y	89		ug/L			210865	490076	2	Standard
	Kr	83		ug/L			43	137	12	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.409	ug/L	0.051	12	2	87	13	KED
	Cd	114	0.403	ug/L	0.045	11	6	209	12	KED
>	Tb	159		ug/L			480478	493534	5	Standard
	Pb	208	47.526	ug/L	2.114	4	115	1946023	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:41:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	48190	2	Standard
	Cl	37		ug/L			3324914	3410039	1	Standard
>	Sc	45		ug/L			423672	583149	2	Standard
	Cr	52	15.209	ug/L	0.071	0	16311	375698	1	Standard
	Cr	53	15.306	ug/L	0.087	0	93	41609	2	Standard
	Mn	55	230.551	ug/L	5.553	2	527	7755480	2	Standard
>	Ge	72		ug/L			20993	20832	1	KED
	Ni	60	18.975	ug/L	0.540	2	13	17669	1	KED
	Ni	62	19.450	ug/L	0.749	3	8	2976	4	KED
	Cu	63	157.229	ug/L	3.198	2	34	436143	1	KED
	Cu	65	161.552	ug/L	1.613	0	19	221341	1	KED
	Zn	66	103.568	ug/L	3.204	3	36	38133	2	KED
	Zn	67	101.228	ug/L	3.595	3	4	6363	2	KED
	As	75	2.563	ug/L	0.065	2	5	481	3	KED
	Y	89		ug/L			210865	512499	0	Standard
	Kr	83		ug/L			43	184	11	Standard
>	In-1	115		ug/L			5860	5524	3	KED
	Cd	111	0.132	ug/L	0.012	9	2	28	10	KED
	Cd	114	0.120	ug/L	0.021	17	6	64	13	KED
>	Tb	159		ug/L			480478	497159	3	Standard
	Pb	208	23.966	ug/L	0.629	2	115	989627	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:46:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42321	3	Standard
	Cl	**37**		ug/L			3324914	3344335	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	528839	1	Standard
|	**Cr**	**52**	**10.027**	ug/L	0.221	2	16311	231560	2	Standard
|	**Cr**	**53**	**10.334**	ug/L	0.090	0	93	25513	1	Standard
⌊	**Mn**	**55**	**167.397**	ug/L	2.556	1	527	5107822	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	21127	0	KED
|	**Ni**	**60**	**17.028**	ug/L	0.561	3	13	16083	2	KED
|	**Ni**	**62**	**17.093**	ug/L	0.584	3	8	2652	2	KED
|	**Cu**	**63**	**13.831**	ug/L	0.497	3	34	38938	2	KED
|	**Cu**	**65**	**13.620**	ug/L	0.392	2	19	18938	2	KED
|	**Zn**	**66**	**40.743**	ug/L	1.194	2	36	15237	2	KED
|	**Zn**	**67**	**43.857**	ug/L	0.767	1	4	2799	0	KED
⌊	**As**	**75**	**1.862**	ug/L	0.046	2	5	356	3	KED
	Y	**89**		ug/L			210865	443516	1	Standard
	Kr	**83**		ug/L			43	123	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5736	2	KED
|	**Cd**	**111**	**0.040**	ug/L	0.005	12	2	10	9	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.008	29	6	19	20	KED
⌈>	**Tb**	**159**		ug/L			480478	499603	3	Standard
⌊	**Pb**	**208**	**3.572**	ug/L	0.155	4	115	148265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:50:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46571	1	Standard
	Cl	37		ug/L			3324914	3435162	1	Standard
>	Sc	45		ug/L			423672	538074	0	Standard
	Cr	52	10.112	ug/L	0.182	1	16311	237442	1	Standard
	Cr	53	10.327	ug/L	0.033	0	93	25939	0	Standard
	Mn	55	186.104	ug/L	3.535	1	527	5776941	1	Standard
>	Ge	72		ug/L			20993	20762	2	KED
	Ni	60	17.434	ug/L	0.532	3	13	16174	0	KED
	Ni	62	16.741	ug/L	1.597	9	8	2549	6	KED
	Cu	63	14.629	ug/L	0.298	2	34	40468	1	KED
	Cu	65	14.902	ug/L	0.346	2	19	20356	0	KED
	Zn	66	42.271	ug/L	2.748	6	36	15515	3	KED
	Zn	67	46.612	ug/L	1.609	3	4	2922	2	KED
	As	75	1.735	ug/L	0.090	5	5	326	3	KED
	Y	89		ug/L			210865	494575	1	Standard
	Kr	83		ug/L			43	135	14	Standard
>	In-1	115		ug/L			5860	5511	4	KED
	Cd	111	0.042	ug/L	0.016	36	2	10	24	KED
	Cd	114	0.035	ug/L	0.014	40	6	23	34	KED
>	Tb	159		ug/L			480478	497846	2	Standard
	Pb	208	2.333	ug/L	0.078	3	115	96587	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:55:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47978	1	Standard
	Cl	37		ug/L			3324914	3428684	0	Standard
>	Sc	45		ug/L			423672	547385	1	Standard
	Cr	52	11.305	ug/L	0.195	1	16311	267509	0	Standard
	Cr	53	11.410	ug/L	0.102	0	93	29141	0	Standard
	Mn	55	204.057	ug/L	5.069	2	527	6442844	1	Standard
>	Ge	72		ug/L			20993	20835	0	KED
	Ni	60	16.911	ug/L	0.304	1	13	15754	1	KED
	Ni	62	17.067	ug/L	0.392	2	8	2612	2	KED
	Cu	63	18.217	ug/L	0.318	1	34	50577	1	KED
	Cu	65	18.414	ug/L	0.250	1	19	25249	1	KED
	Zn	66	82.995	ug/L	0.667	0	36	30574	0	KED
	Zn	67	81.424	ug/L	3.657	4	4	5121	4	KED
	As	75	3.418	ug/L	0.173	5	5	640	4	KED
	Y	89		ug/L			210865	488291	1	Standard
	Kr	83		ug/L			43	158	7	Standard
>	In-1	115		ug/L			5860	5655	2	KED
	Cd	111	0.114	ug/L	0.023	19	2	25	17	KED
	Cd	114	0.124	ug/L	0.011	9	6	67	9	KED
>	Tb	159		ug/L			480478	503350	3	Standard
	Pb	208	9.375	ug/L	0.348	3	115	391984	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:59:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	52623	1	Standard
	Cl	37		ug/L			3324914	3421904	1	Standard
>	Sc	45		ug/L			423672	558781	2	Standard
	Cr	52	12.347	ug/L	0.072	0	16311	296308	1	Standard
	Cr	53	12.436	ug/L	0.215	1	93	32408	1	Standard
	Mn	55	191.830	ug/L	0.459	0	527	6184482	2	Standard
>	Ge	72		ug/L			20993	20928	1	KED
	Ni	60	19.637	ug/L	0.053	0	13	18374	2	KED
	Ni	62	18.816	ug/L	0.175	0	8	2892	2	KED
	Cu	63	17.874	ug/L	0.477	2	34	49839	2	KED
	Cu	65	18.632	ug/L	0.936	5	19	25647	3	KED
	Zn	66	65.456	ug/L	0.326	0	36	24229	1	KED
	Zn	67	68.077	ug/L	3.169	4	4	4300	4	KED
	As	75	2.141	ug/L	0.093	4	5	404	3	KED
	Y	89		ug/L			210865	499188	1	Standard
	Kr	83		ug/L			43	168	6	Standard
>	In-1	115		ug/L			5860	5564	0	KED
	Cd	111	0.095	ug/L	0.011	11	2	21	11	KED
	Cd	114	0.077	ug/L	0.015	19	6	43	17	KED
>	Tb	159		ug/L			480478	493587	3	Standard
	Pb	208	13.795	ug/L	0.345	2	115	565609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:03:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46348	1	Standard
	Cl	37		ug/L			3324914	3429129	2	Standard
>	Sc	45		ug/L			423672	552050	1	Standard
	Cr	52	10.564	ug/L	0.091	0	16311	253507	1	Standard
	Cr	53	10.535	ug/L	0.259	2	93	27140	0	Standard
	Mn	55	171.028	ug/L	1.826	1	527	5446801	0	Standard
>	Ge	72		ug/L			20993	21205	2	KED
	Ni	60	18.315	ug/L	0.616	3	13	17357	2	KED
	Ni	62	17.864	ug/L	0.425	2	8	2783	3	KED
	Cu	63	15.363	ug/L	0.470	3	34	43403	2	KED
	Cu	65	15.543	ug/L	0.283	1	19	21694	3	KED
	Zn	66	47.926	ug/L	1.605	3	36	17984	3	KED
	Zn	67	50.322	ug/L	2.412	4	4	3221	3	KED
	As	75	2.000	ug/L	0.068	3	5	383	5	KED
	Y	89		ug/L			210865	613016	0	Standard
	Kr	83		ug/L			43	153	8	Standard
>	In-1	115		ug/L			5860	5884	1	KED
	Cd	111	0.040	ug/L	0.004	8	2	10	5	KED
	Cd	114	0.044	ug/L	0.010	21	6	29	15	KED
>	Tb	159		ug/L			480478	508235	3	Standard
	Pb	208	5.068	ug/L	0.178	3	115	213993	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:08:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	49808	1	Standard
Cl	37		ug/L			3324914	3433582	0	Standard
> Sc	45		ug/L			423672	580459	0	Standard
Cr	52	15.332	ug/L	0.186	1	16311	376823	1	Standard
Cr	53	15.527	ug/L	0.094	0	93	42009	1	Standard
Mn	55	259.850	ug/L	4.345	1	527	8701827	1	Standard
> Ge	72		ug/L			20993	20813	1	KED
Ni	60	21.054	ug/L	0.414	1	13	19587	0	KED
Ni	62	20.511	ug/L	1.219	5	8	3133	4	KED
Cu	63	23.716	ug/L	0.404	1	34	65772	2	KED
Cu	65	23.758	ug/L	0.203	0	19	32534	1	KED
Zn	66	82.527	ug/L	1.292	1	36	30366	0	KED
Zn	67	86.803	ug/L	1.844	2	4	5453	1	KED
As	75	2.533	ug/L	0.052	2	5	475	1	KED
Y	89		ug/L			210865	470527	2	Standard
Kr	83		ug/L			43	176	6	Standard
> In-1	115		ug/L			5860	5527	2	KED
Cd	111	0.145	ug/L	0.019	12	2	31	10	KED
Cd	114	0.143	ug/L	0.030	21	6	75	19	KED
> Tb	159		ug/L			480478	492355	2	Standard
Pb	208	19.863	ug/L	0.670	3	115	812292	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:12:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55628	1	Standard
	Cl	37		ug/L			3324914	3495838	2	Standard
>	Sc	45		ug/L			423672	619912	1	Standard
	Cr	52	17.326	ug/L	0.276	1	16311	451626	0	Standard
	Cr	53	17.477	ug/L	0.170	0	93	50486	2	Standard
	Mn	55	296.129	ug/L	1.479	0	527	10590734	1	Standard
>	Ge	72		ug/L			20993	20654	1	KED
	Ni	60	21.316	ug/L	0.309	1	13	19680	0	KED
	Ni	62	20.963	ug/L	1.167	5	8	3178	4	KED
	Cu	63	35.930	ug/L	1.052	2	34	98840	2	KED
	Cu	65	36.339	ug/L	0.848	2	19	49367	1	KED
	Zn	66	128.330	ug/L	1.419	1	36	46845	1	KED
	Zn	67	123.723	ug/L	5.019	4	4	7710	3	KED
	As	75	3.622	ug/L	0.116	3	5	672	2	KED
	Y	89		ug/L			210865	534098	2	Standard
	Kr	83		ug/L			43	182	16	Standard
>	In-1	115		ug/L			5860	5439	0	KED
	Cd	111	0.341	ug/L	0.010	2	2	69	2	KED
	Cd	114	0.343	ug/L	0.038	10	6	170	10	KED
>	Tb	159		ug/L			480478	501504	4	Standard
	Pb	208	42.916	ug/L	1.362	3	115	1786980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:17:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53324	2	Standard
	Cl	37		ug/L			3324914	3531376	1	Standard
>	Sc	45		ug/L			423672	549194	1	Standard
	Cr	52	9.678	ug/L	0.051	0	16311	232837	1	Standard
	Cr	53	9.817	ug/L	0.167	1	93	25171	1	Standard
	Mn	55	167.741	ug/L	0.708	0	527	5314942	1	Standard
>	Ge	72		ug/L			20993	21306	0	KED
	Ni	60	17.268	ug/L	0.496	2	13	16450	2	KED
	Ni	62	16.962	ug/L	0.027	0	8	2655	0	KED
	Cu	63	14.075	ug/L	0.122	0	34	39965	0	KED
	Cu	65	14.496	ug/L	0.308	2	19	20330	2	KED
	Zn	66	45.175	ug/L	0.389	0	36	17034	0	KED
	Zn	67	46.107	ug/L	1.742	3	4	2967	3	KED
	As	75	1.786	ug/L	0.028	1	5	344	1	KED
	Y	89		ug/L			210865	541666	1	Standard
	Kr	83		ug/L			43	123	12	Standard
>	In-1	115		ug/L			5860	5660	0	KED
	Cd	111	0.030	ug/L	0.005	17	2	8	13	KED
	Cd	114	0.039	ug/L	0.005	12	6	25	9	KED
>	Tb	159		ug/L			480478	508493	3	Standard
	Pb	208	5.829	ug/L	0.221	3	115	246247	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:24:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31687	3	Standard
	Cl	**37**		ug/L			3324914	3528087	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	404925	2	Standard
|	**Cr**	**52**	**51.520**	ug/L	1.179	2	16311	846326	2	Standard
|	**Cr**	**53**	**51.090**	ug/L	1.275	2	93	96187	1	Standard
⌊	**Mn**	**55**	**51.365**	ug/L	0.640	1	527	1200132	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	19951	1	KED
|	**Ni**	**60**	**51.930**	ug/L	1.507	2	13	46286	1	KED
|	**Ni**	**62**	**51.456**	ug/L	0.981	1	8	7527	1	KED
|	**Cu**	**63**	**51.766**	ug/L	0.343	0	34	137551	0	KED
|	**Cu**	**65**	**52.294**	ug/L	1.483	2	19	68610	1	KED
|	**Zn**	**66**	**50.951**	ug/L	1.349	2	36	17982	1	KED
|	**Zn**	**67**	**53.035**	ug/L	1.493	2	4	3195	2	KED
⌊	**As**	**75**	**51.477**	ug/L	0.884	1	5	9157	1	KED
	Y	**89**		ug/L			210865	201459	0	Standard
	Kr	**83**		ug/L			43	40	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5557	1	KED
|	**Cd**	**111**	**51.054**	ug/L	0.731	1	2	10280	0	KED
⌊	**Cd**	**114**	**51.070**	ug/L	0.654	1	6	24983	0	KED
⌈>	**Tb**	**159**		ug/L			480478	460335	3	Standard
⌊	**Pb**	**208**	**54.571**	ug/L	1.494	2	115	2086351	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:31:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30209	2	Standard
	Cl	**37**		ug/L			3324914	3262902	1	Standard
⎡>	**Sc**	**45**		ug/L			423672	394751	1	Standard
⎢	**Cr**	**52**	**-0.013**	ug/L	0.019	145	16311	14995	3	Standard
⎢	**Cr**	**53**	**-0.004**	ug/L	0.005	124	93	79	10	Standard
⎣	**Mn**	**55**	**0.008**	ug/L	0.001	10	527	679	3	Standard
⎡>	**Ge**	**72**		ug/L			20993	19446	2	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.001	54	13	10	10	KED
⎢	**Ni**	**62**	**-0.027**	ug/L	0.014	52	8	3	50	KED
⎢	**Cu**	**63**	**0.004**	ug/L	0.001	29	34	43	9	KED
⎢	**Cu**	**65**	**0.007**	ug/L	0.007	97	19	27	32	KED
⎢	**Zn**	**66**	**0.060**	ug/L	0.028	46	36	53	16	KED
⎢	**Zn**	**67**	**0.070**	ug/L	0.035	49	4	8	26	KED
⎣	**As**	**75**	**0.005**	ug/L	0.015	270	5	6	38	KED
	Y	**89**		ug/L			210865	195241	1	Standard
	Kr	**83**		ug/L			43	55	22	Standard
⎡>	**In-1**	**115**		ug/L			5860	5455	1	KED
⎢	**Cd**	**111**	**0.009**	ug/L	0.010	112	2	3	50	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.006	194	6	4	68	KED
⎡>	**Tb**	**159**		ug/L			480478	441897	3	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.000	7	115	248	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0428-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:36:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42631	2	Standard
	Cl	**37**		ug/L			3324914	3444399	3	Standard
⎡>	**Sc**	**45**		ug/L			423672	426178	3	Standard
⎢	**Cr**	**52**	**0.392**	ug/L	0.015	3	16311	23064	2	Standard
⎢	**Cr**	**53**	**0.443**	ug/L	0.005	1	93	971	2	Standard
⎣	**Mn**	**55**	**3.009**	ug/L	0.051	1	527	74487	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	20143	1	KED
⎢	**Ni**	**60**	**1.065**	ug/L	0.036	3	13	972	5	KED
⎢	**Ni**	**62**	**1.083**	ug/L	0.077	7	8	167	5	KED
⎢	**Cu**	**63**	**0.981**	ug/L	0.020	2	34	2663	1	KED
⎢	**Cu**	**65**	**1.006**	ug/L	0.056	5	19	1350	4	KED
⎢	**Zn**	**66**	**1.912**	ug/L	0.101	5	36	714	3	KED
⎢	**Zn**	**67**	**4.395**	ug/L	0.285	6	4	271	4	KED
⎣	**As**	**75**	**0.518**	ug/L	0.012	2	5	98	3	KED
	Y	**89**		ug/L			210865	199294	5	Standard
	Kr	**83**		ug/L			43	42	9	Standard
⎡>	**In-1**	**115**		ug/L			5860	5564	1	KED
⎢	**Cd**	**111**	**0.016**	ug/L	0.013	82	2	5	50	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.005	118	6	7	28	KED
⎡>	**Tb**	**159**		ug/L			480478	456420	3	Standard
⎣	**Pb**	**208**	**0.085**	ug/L	0.004	4	115	3335	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:40:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43313	0	Standard
	Cl	**37**		ug/L			3324914	3511711	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	408571	1	Standard
|	**Cr**	**52**	**0.315**	ug/L	0.031	9	16311	20852	1	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.007	2	93	593	3	Standard
⌊	**Mn**	**55**	**0.906**	ug/L	0.017	1	527	21852	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	21157	2	KED
|	**Ni**	**60**	**0.142**	ug/L	0.007	4	13	147	6	KED
|	**Ni**	**62**	**0.052**	ug/L	0.065	125	8	16	63	KED
|	**Cu**	**63**	**0.346**	ug/L	0.001	0	34	1010	2	KED
|	**Cu**	**65**	**0.344**	ug/L	0.036	10	19	497	7	KED
|	**Zn**	**66**	**11.768**	ug/L	0.181	1	36	4432	0	KED
|	**Zn**	**67**	**10.259**	ug/L	0.103	1	4	659	1	KED
⌊	**As**	**75**	**0.204**	ug/L	0.020	9	5	44	9	KED
	Y	**89**		ug/L			210865	197090	0	Standard
	Kr	**83**		ug/L			43	48	35	Standard
⌈>	**In-1**	**115**		ug/L			5860	5935	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	34	2	0	86	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	53	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	453850	3	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.002	12	115	611	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:44:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44977	2	Standard
	Cl	**37**		ug/L			3324914	3501369	4	Standard
⌈>	**Sc**	**45**		ug/L			423672	421978	2	Standard
|	**Cr**	**52**	**0.360**	ug/L	0.023	6	16311	22285	0	Standard
|	**Cr**	**53**	**0.297**	ug/L	0.019	6	93	676	7	Standard
⌊	**Mn**	**55**	**3.485**	ug/L	0.101	2	527	85322	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	19998	3	KED
|	**Ni**	**60**	**7.257**	ug/L	0.093	1	13	6495	2	KED
|	**Ni**	**62**	**6.752**	ug/L	0.358	5	8	997	7	KED
|	**Cu**	**63**	**0.232**	ug/L	0.011	4	34	650	8	KED
|	**Cu**	**65**	**0.240**	ug/L	0.008	3	19	333	5	KED
|	**Zn**	**66**	**63.310**	ug/L	0.842	1	36	22397	4	KED
|	**Zn**	**67**	**53.537**	ug/L	1.707	3	4	3232	3	KED
⌊	**As**	**75**	**0.161**	ug/L	0.021	13	5	34	14	KED
	Y	**89**		ug/L			210865	205077	2	Standard
	Kr	**83**		ug/L			43	56	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5431	0	KED
|	**Cd**	**111**	**0.007**	ug/L	0.014	191	2	3	78	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	190	6	4	48	KED
⌈>	**Tb**	**159**		ug/L			480478	473744	2	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	3	115	591	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-08
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:49:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43123	1	Standard
	Cl	**37**		ug/L			3324914	3441339	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	412563	2	Standard
|	**Cr**	**52**	**0.510**	ug/L	0.034	6	16311	24261	0	Standard
|	**Cr**	**53**	**0.468**	ug/L	0.027	5	93	989	6	Standard
⌊	**Mn**	**55**	**0.793**	ug/L	0.020	2	527	19380	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20785	3	KED
|	**Ni**	**60**	**0.191**	ug/L	0.011	5	13	191	8	KED
|	**Ni**	**62**	**0.250**	ug/L	0.015	5	8	46	8	KED
|	**Cu**	**63**	**0.724**	ug/L	0.027	3	34	2035	1	KED
|	**Cu**	**65**	**0.738**	ug/L	0.035	4	19	1027	3	KED
|	**Zn**	**66**	**7.272**	ug/L	0.105	1	36	2704	2	KED
|	**Zn**	**67**	**6.462**	ug/L	0.402	6	4	408	2	KED
⌊	**As**	**75**	**0.273**	ug/L	0.007	2	5	56	2	KED
	Y	**89**		ug/L			210865	201406	1	Standard
	Kr	**83**		ug/L			43	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5575	5	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	524	2	1	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	215	6	4	64	KED
⌈>	**Tb**	**159**		ug/L			480478	456293	3	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.002	9	115	910	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:53:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45626	4	Standard
	Cl	**37**		ug/L			3324914	3490064	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	425522	1	Standard
|	**Cr**	**52**	**0.326**	ug/L	0.044	13	16311	21897	2	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.006	2	93	617	2	Standard
⌊	**Mn**	**55**	**3.196**	ug/L	0.022	0	527	78986	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20100	1	KED
|	**Ni**	**60**	**0.064**	ug/L	0.010	15	13	71	10	KED
|	**Ni**	**62**	**0.028**	ug/L	0.021	72	8	12	24	KED
|	**Cu**	**63**	**0.310**	ug/L	0.027	8	34	860	6	KED
|	**Cu**	**65**	**0.298**	ug/L	0.002	0	19	412	1	KED
|	**Zn**	**66**	**45.064**	ug/L	0.540	1	36	16029	0	KED
|	**Zn**	**67**	**40.680**	ug/L	1.053	2	4	2470	1	KED
⌊	**As**	**75**	**0.179**	ug/L	0.009	5	5	37	4	KED
	Y	**89**		ug/L			210865	213329	1	Standard
	Kr	**83**		ug/L			43	53	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5514	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	115	2	1	34	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	38	6	1	177	KED
⌈>	**Tb**	**159**		ug/L			480478	470093	3	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.002	9	115	857	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-12
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:57:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44946	0	Standard
	Cl	**37**		ug/L			3324914	3455689	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	437008	2	Standard
|	**Cr**	**52**	**0.337**	ug/L	0.023	6	16311	22679	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.015	4	93	757	5	Standard
⌊	**Mn**	**55**	**0.690**	ug/L	0.017	2	527	17930	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20974	2	KED
|	**Ni**	**60**	**0.102**	ug/L	0.008	7	13	109	7	KED
|	**Ni**	**62**	**0.099**	ug/L	0.035	35	8	23	24	KED
|	**Cu**	**63**	**0.424**	ug/L	0.021	4	34	1218	4	KED
|	**Cu**	**65**	**0.418**	ug/L	0.024	5	19	596	3	KED
|	**Zn**	**66**	**7.903**	ug/L	0.399	5	36	2962	4	KED
|	**Zn**	**67**	**7.218**	ug/L	0.111	1	4	460	1	KED
⌊	**As**	**75**	**0.174**	ug/L	0.027	15	5	38	10	KED
	Y	**89**		ug/L			210865	211915	0	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⌈>	**In-1**	**115**		ug/L			5860	6000	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.005	65	2	3	25	KED
⌊	**Cd**	**114**	**-0.011**	ug/L	0.002	22	6	0	171	KED
⌈>	**Tb**	**159**		ug/L			480478	479164	4	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.000	0	115	806	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:02:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45110	1	Standard
	Cl	**37**		ug/L			3324914	3443551	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	417979	1	Standard
|	**Cr**	**52**	**0.375**	ug/L	0.038	10	16311	22342	2	Standard
|	**Cr**	**53**	**0.281**	ug/L	0.011	3	93	637	2	Standard
⌊	**Mn**	**55**	**2.606**	ug/L	0.064	2	527	63354	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	21028	1	KED
|	**Ni**	**60**	**0.074**	ug/L	0.008	10	13	83	8	KED
|	**Ni**	**62**	**0.095**	ug/L	0.010	11	8	22	8	KED
|	**Cu**	**63**	**0.256**	ug/L	0.021	8	34	751	9	KED
|	**Cu**	**65**	**0.234**	ug/L	0.004	1	19	342	2	KED
|	**Zn**	**66**	**33.084**	ug/L	1.015	3	36	12325	4	KED
|	**Zn**	**67**	**29.232**	ug/L	0.562	1	4	1858	2	KED
⌊	**As**	**75**	**0.182**	ug/L	0.034	18	5	39	16	KED
	Y	**89**		ug/L			210865	202459	2	Standard
	Kr	**83**		ug/L			43	46	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5801	3	KED
|	**Cd**	**111**	**0.008**	ug/L	0.008	102	2	3	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1274	6	6	52	KED
⌈>	**Tb**	**159**		ug/L			480478	466298	3	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	6	115	671	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:06:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43166	5	Standard
	Cl	**37**		ug/L			3324914	3402239	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	405812	2	Standard
|	**Cr**	**52**	**0.275**	ug/L	0.035	12	16311	20079	4	Standard
|	**Cr**	**53**	**0.251**	ug/L	0.008	3	93	562	4	Standard
⌊	**Mn**	**55**	**2.686**	ug/L	0.020	0	527	63381	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20144	1	KED
|	**Ni**	**60**	**0.073**	ug/L	0.011	14	13	79	12	KED
|	**Ni**	**62**	**0.032**	ug/L	0.038	119	8	12	45	KED
|	**Cu**	**63**	**0.215**	ug/L	0.010	4	34	610	3	KED
|	**Cu**	**65**	**0.233**	ug/L	0.024	10	19	326	8	KED
|	**Zn**	**66**	**32.752**	ug/L	0.270	0	36	11686	0	KED
|	**Zn**	**67**	**29.639**	ug/L	0.252	0	4	1805	1	KED
⌊	**As**	**75**	**0.181**	ug/L	0.013	7	5	37	5	KED
	Y	**89**		ug/L			210865	195397	1	Standard
	Kr	**83**		ug/L			43	39	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5407	5	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	293	2	1	69	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	47	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	454083	3	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	3	115	792	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:10:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44935	0	Standard
	Cl	**37**		ug/L			3324914	3413687	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	422486	2	Standard
|	**Cr**	**52**	**26.224**	ug/L	0.446	1	16311	457512	2	Standard
|	**Cr**	**53**	**26.167**	ug/L	0.154	0	93	51463	2	Standard
⌊	**Mn**	**55**	**29.351**	ug/L	0.192	0	527	715952	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20835	2	KED
|	**Ni**	**60**	**27.225**	ug/L	0.470	1	13	25357	3	KED
|	**Ni**	**62**	**26.437**	ug/L	0.757	2	8	4041	2	KED
|	**Cu**	**63**	**26.793**	ug/L	0.609	2	34	74371	2	KED
|	**Cu**	**65**	**27.151**	ug/L	0.331	1	19	37219	2	KED
|	**Zn**	**66**	**116.996**	ug/L	1.777	1	36	43077	0	KED
|	**Zn**	**67**	**101.333**	ug/L	1.295	1	4	6371	0	KED
⌊	**As**	**75**	**25.380**	ug/L	0.158	0	5	4717	1	KED
	Y	**89**		ug/L			210865	204387	5	Standard
	Kr	**83**		ug/L			43	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5860	5640	2	KED
|	**Cd**	**111**	**25.629**	ug/L	0.682	2	2	5237	1	KED
⌊	**Cd**	**114**	**26.041**	ug/L	0.854	3	6	12925	1	KED
⌈>	**Tb**	**159**		ug/L			480478	464989	4	Standard
⌊	**Pb**	**208**	**28.426**	ug/L	0.628	2	115	1097790	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:16:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47332	0	Standard
	Cl	37		ug/L			3324914	3394381	1	Standard
>	Sc	45		ug/L			423672	552435	1	Standard
	Cr	52	13.580	ug/L	0.004	0	16311	320085	1	Standard
	Cr	53	13.637	ug/L	0.082	0	93	35130	1	Standard
	Mn	55	236.366	ug/L	3.294	1	527	7533823	2	Standard
>	Ge	72		ug/L			20993	20359	0	KED
	Ni	60	16.711	ug/L	0.524	3	13	15211	2	KED
	Ni	62	16.754	ug/L	0.410	2	8	2506	3	KED
	Cu	63	20.630	ug/L	0.269	1	34	55958	0	KED
	Cu	65	21.249	ug/L	0.423	1	19	28469	2	KED
	Zn	66	81.556	ug/L	0.785	0	36	29359	1	KED
	Zn	67	79.298	ug/L	2.556	3	4	4873	2	KED
	As	75	2.533	ug/L	0.089	3	5	465	2	KED
	Y	89		ug/L			210865	434604	1	Standard
	Kr	83		ug/L			43	134	13	Standard
>	In-1	115		ug/L			5860	5604	1	KED
	Cd	111	0.072	ug/L	0.017	23	2	16	21	KED
	Cd	114	0.094	ug/L	0.017	17	6	52	16	KED
>	Tb	159		ug/L			480478	483462	3	Standard
	Pb	208	13.761	ug/L	0.427	3	115	552558	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:23:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31957	3	Standard
	Cl	**37**		ug/L			3324914	3585631	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	409489	0	Standard
|	**Cr**	**52**	**50.693**	ug/L	0.190	0	16311	842585	0	Standard
|	**Cr**	**53**	**50.544**	ug/L	0.742	1	93	96273	2	Standard
⌊	**Mn**	**55**	**51.688**	ug/L	0.528	1	527	1221587	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20128	1	KED
|	**Ni**	**60**	**50.808**	ug/L	1.186	2	13	45692	1	KED
|	**Ni**	**62**	**51.630**	ug/L	1.221	2	8	7618	1	KED
|	**Cu**	**63**	**50.907**	ug/L	0.634	1	34	136481	1	KED
|	**Cu**	**65**	**51.460**	ug/L	0.862	1	19	68124	1	KED
|	**Zn**	**66**	**52.014**	ug/L	1.795	3	36	18519	2	KED
|	**Zn**	**67**	**50.908**	ug/L	1.421	2	4	3094	1	KED
⌊	**As**	**75**	**50.147**	ug/L	1.061	2	5	8998	0	KED
	Y	**89**		ug/L			210865	198783	2	Standard
	Kr	**83**		ug/L			43	50	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5383	1	KED
|	**Cd**	**111**	**51.761**	ug/L	1.423	2	2	10094	1	KED
⌊	**Cd**	**114**	**51.677**	ug/L	0.549	1	6	24486	0	KED
⌈>	**Tb**	**159**		ug/L			480478	464608	3	Standard
⌊	**Pb**	**208**	**54.638**	ug/L	1.841	3	115	2107830	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30927	3	Standard
	Cl	**37**		ug/L			3324914	3324282	1	Standard
⎡>	**Sc**	**45**		ug/L			423672	419721	2	Standard
⎢	**Cr**	**52**	**-0.028**	ug/L	0.018	64	16311	15685	0	Standard
⎢	**Cr**	**53**	**-0.005**	ug/L	0.003	61	93	81	10	Standard
⎣	**Mn**	**55**	**0.004**	ug/L	0.000	12	527	611	0	Standard
⎡>	**Ge**	**72**		ug/L			20993	20536	2	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.008	463	13	12	55	KED
⎢	**Ni**	**62**	**-0.024**	ug/L	0.020	84	8	4	65	KED
⎢	**Cu**	**63**	**0.006**	ug/L	0.005	88	34	48	29	KED
⎢	**Cu**	**65**	**0.001**	ug/L	0.006	529	19	20	41	KED
⎢	**Zn**	**66**	**0.058**	ug/L	0.016	27	36	56	10	KED
⎢	**Zn**	**67**	**0.074**	ug/L	0.068	91	4	8	44	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.009	984	5	5	28	KED
	Y	**89**		ug/L			210865	198820	1	Standard
	Kr	**83**		ug/L			43	48	15	Standard
⎡>	**In-1**	**115**		ug/L			5860	5658	2	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.008	147	2	3	45	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.010	291	6	4	112	KED
⎡>	**Tb**	**159**		ug/L			480478	462212	3	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.000	6	115	255	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				33587	1	Standard
	Cl	**37**		ug/L				3318464	1	Standard
⎡>	**Sc**	**45**		ug/L				408513	1	Standard
⎢	**Cr**	**52**		ug/L				15747	1	Standard
⎢	**Cr**	**53**		ug/L				81	12	Standard
⎣	**Mn**	**55**		ug/L				555	5	Standard
⎡>	**Ge**	**72**		ug/L				19427	2	KED
⎢	**Ni**	**60**		ug/L				13	24	KED
⎢	**Ni**	**62**		ug/L				8	35	KED
⎢	**Cu**	**63**		ug/L				28	30	KED
⎢	**Cu**	**65**		ug/L				17	48	KED
⎢	**Zn**	**66**		ug/L				33	6	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				5	5	KED
	Y	**89**		ug/L				199932	0	Standard
	Kr	**83**		ug/L				55	34	Standard
⎡>	**In-1**	**115**		ug/L				5415	1	KED
⎢	**Cd**	**111**		ug/L				1	132	KED
⎣	**Cd**	**114**		ug/L				1	100	KED
⎡>	**Tb**	**159**		ug/L				457409	3	Standard
⎣	**Pb**	**208**		ug/L				92	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:39:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30970	3	Standard
	Cl	**37**		ug/L			3318464	3596620	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	394965	1	Standard
|	**Cr**	**52**	**51.509**	ug/L	0.397	0	15747	825564	1	Standard
|	**Cr**	**53**	**51.719**	ug/L	0.617	1	81	94996	0	Standard
⌊	**Mn**	**55**	**51.863**	ug/L	0.740	1	555	1182141	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20111	0	KED
|	**Ni**	**60**	**51.495**	ug/L	0.793	1	13	46277	0	KED
|	**Ni**	**62**	**49.693**	ug/L	1.333	2	8	7328	2	KED
|	**Cu**	**63**	**49.772**	ug/L	0.361	0	28	133322	0	KED
|	**Cu**	**65**	**51.551**	ug/L	0.455	0	17	68194	0	KED
|	**Zn**	**66**	**49.789**	ug/L	0.975	1	33	17718	2	KED
|	**Zn**	**67**	**50.902**	ug/L	2.069	4	3	3091	3	KED
⌊	**As**	**75**	**49.446**	ug/L	0.718	1	5	8866	0	KED
	Y	**89**		ug/L			199932	189958	1	Standard
	Kr	**83**		ug/L			55	65	3	Standard
⌈>	**In-1**	**115**		ug/L			5415	5403	2	KED
|	**Cd**	**111**	**50.937**	ug/L	1.476	2	1	9967	0	KED
⌊	**Cd**	**114**	**51.669**	ug/L	1.325	2	1	24561	0	KED
⌈>	**Tb**	**159**		ug/L			457409	448132	1	Standard
⌊	**Pb**	**208**	**55.044**	ug/L	1.318	2	92	2049277	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:46:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31277	1	Standard
	Cl	**37**		ug/L			3318464	3347711	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	407725	2	Standard
⎢	**Cr**	**52**	**-0.010**	ug/L	0.028	283	15747	15562	4	Standard
⎢	**Cr**	**53**	**0.006**	ug/L	0.003	57	81	92	8	Standard
⎣	**Mn**	**55**	**0.004**	ug/L	0.001	31	555	639	5	Standard
⎡>	**Ge**	**72**		ug/L			19427	20045	0	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.012	990	13	12	82	KED
⎢	**Ni**	**62**	**-0.023**	ug/L	0.027	115	8	5	78	KED
⎢	**Cu**	**63**	**0.010**	ug/L	0.005	52	28	57	26	KED
⎢	**Cu**	**65**	**0.007**	ug/L	0.014	195	17	27	68	KED
⎢	**Zn**	**66**	**0.065**	ug/L	0.014	21	33	57	9	KED
⎢	**Zn**	**67**	**0.177**	ug/L	0.113	63	3	14	45	KED
⎣	**As**	**75**	**0.005**	ug/L	0.014	266	5	6	40	KED
	Y	**89**		ug/L			199932	200193	1	Standard
	Kr	**83**		ug/L			55	40	26	Standard
⎡>	**In-1**	**115**		ug/L			5415	5910	2	KED
⎢	**Cd**	**111**	**-0.007**	ug/L	0.003	38	1	0	86	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.004	663	1	2	96	KED
⎡>	**Tb**	**159**		ug/L			457409	454753	4	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.001	15	92	238	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46306	2	Standard
	Cl	**37**		ug/L			3318464	3350138	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	427778	3	Standard
|	**Cr**	**52**	**0.369**	ug/L	0.027	7	15747	22773	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.016	5	81	697	1	Standard
⌊	**Mn**	**55**	**3.057**	ug/L	0.038	1	555	76004	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20924	1	KED
|	**Ni**	**60**	**0.076**	ug/L	0.011	14	13	85	11	KED
|	**Ni**	**62**	**0.083**	ug/L	0.025	29	8	21	18	KED
|	**Cu**	**63**	**0.332**	ug/L	0.020	5	28	956	5	KED
|	**Cu**	**65**	**0.354**	ug/L	0.027	7	17	506	7	KED
|	**Zn**	**66**	**38.381**	ug/L	1.158	3	33	14219	3	KED
|	**Zn**	**67**	**32.496**	ug/L	0.686	2	3	2054	1	KED
⌊	**As**	**75**	**0.233**	ug/L	0.008	3	5	48	2	KED
	Y	**89**		ug/L			199932	208192	3	Standard
	Kr	**83**		ug/L			55	46	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5647	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.009	1856	1	1	100	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.017	155	1	7	115	KED
⌈>	**Tb**	**159**		ug/L			457409	477111	5	Standard
⌊	**Pb**	**208**	**0.077**	ug/L	0.005	6	92	3142	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:55:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46846	4	Standard
	Cl	**37**		ug/L			3318464	3317272	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	432261	2	Standard
|	**Cr**	**52**	**0.379**	ug/L	0.031	8	15747	23190	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.011	3	81	706	3	Standard
⌊	**Mn**	**55**	**1.417**	ug/L	0.041	2	555	35926	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19961	1	KED
|	**Ni**	**60**	**0.170**	ug/L	0.007	3	13	165	2	KED
|	**Ni**	**62**	**0.129**	ug/L	0.039	30	8	27	21	KED
|	**Cu**	**63**	**0.436**	ug/L	0.019	4	28	1188	2	KED
|	**Cu**	**65**	**0.457**	ug/L	0.017	3	17	617	1	KED
|	**Zn**	**66**	**13.524**	ug/L	0.232	1	33	4802	2	KED
|	**Zn**	**67**	**11.651**	ug/L	0.589	5	3	705	5	KED
⌊	**As**	**75**	**0.211**	ug/L	0.039	18	5	42	14	KED
	Y	**89**		ug/L			199932	208898	2	Standard
	Kr	**83**		ug/L			55	55	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.009	92	1	4	48	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	145	1	3	57	KED
⌈>	**Tb**	**159**		ug/L			457409	477446	5	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.002	8	92	885	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-05
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:00:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44371	1	Standard
	Cl	**37**		ug/L			3318464	3429934	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	428994	1	Standard
⎢	**Cr**	**52**	**0.417**	ug/L	0.019	4	15747	23668	1	Standard
⎢	**Cr**	**53**	**0.383**	ug/L	0.006	1	81	848	2	Standard
⎣	**Mn**	**55**	**3.518**	ug/L	0.061	1	555	87646	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20983	1	KED
⎢	**Ni**	**60**	**0.130**	ug/L	0.028	21	13	136	20	KED
⎢	**Ni**	**62**	**0.099**	ug/L	0.017	16	8	24	12	KED
⎢	**Cu**	**63**	**0.275**	ug/L	0.035	12	28	800	11	KED
⎢	**Cu**	**65**	**0.272**	ug/L	0.012	4	17	393	4	KED
⎢	**Zn**	**66**	**70.741**	ug/L	1.695	2	33	26245	1	KED
⎢	**Zn**	**67**	**60.426**	ug/L	1.594	2	3	3827	2	KED
⎣	**As**	**75**	**0.153**	ug/L	0.036	23	5	34	19	KED
	Y	**89**		ug/L			199932	208047	1	Standard
	Kr	**83**		ug/L			55	48	8	Standard
⎡>	**In-1**	**115**		ug/L			5415	5847	3	KED
⎢	**Cd**	**111**	**0.014**	ug/L	0.010	68	1	5	39	KED
⎣	**Cd**	**114**	**0.008**	ug/L	0.010	129	1	6	90	KED
⎡>	**Tb**	**159**		ug/L			457409	476371	3	Standard
⎣	**Pb**	**208**	**0.042**	ug/L	0.003	6	92	1751	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:04:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44292	0	Standard
	Cl	**37**		ug/L			3318464	3326408	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	417133	2	Standard
|	**Cr**	**52**	**0.389**	ug/L	0.034	8	15747	22542	1	Standard
|	**Cr**	**53**	**0.356**	ug/L	0.018	5	81	773	4	Standard
⌊	**Mn**	**55**	**1.427**	ug/L	0.011	0	555	34909	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20974	1	KED
|	**Ni**	**60**	**0.234**	ug/L	0.034	14	13	233	12	KED
|	**Ni**	**62**	**0.182**	ug/L	0.022	12	8	36	7	KED
|	**Cu**	**63**	**0.647**	ug/L	0.016	2	28	1837	1	KED
|	**Cu**	**65**	**0.645**	ug/L	0.013	2	17	907	0	KED
|	**Zn**	**66**	**6.556**	ug/L	0.285	4	33	2463	2	KED
|	**Zn**	**67**	**5.972**	ug/L	0.570	9	3	381	8	KED
⌊	**As**	**75**	**0.237**	ug/L	0.013	5	5	49	4	KED
	Y	**89**		ug/L			199932	208530	1	Standard
	Kr	**83**		ug/L			55	35	40	Standard
⌈>	**In-1**	**115**		ug/L			5415	5857	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.010	465	1	1	124	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	141	1	3	70	KED
⌈>	**Tb**	**159**		ug/L			457409	465131	3	Standard
⌊	**Pb**	**208**	**0.024**	ug/L	0.001	3	92	1003	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-09
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:08:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42517	1	Standard
	Cl	**37**		ug/L			3318464	3268332	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	413982	2	Standard
|	**Cr**	**52**	**0.391**	ug/L	0.010	2	15747	22402	2	Standard
|	**Cr**	**53**	**0.378**	ug/L	0.004	1	81	810	2	Standard
⌊	**Mn**	**55**	**3.774**	ug/L	0.036	0	555	90700	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20046	1	KED
|	**Ni**	**60**	**0.089**	ug/L	0.013	14	13	93	13	KED
|	**Ni**	**62**	**0.050**	ug/L	0.027	53	8	15	24	KED
|	**Cu**	**63**	**0.268**	ug/L	0.015	5	28	743	3	KED
|	**Cu**	**65**	**0.269**	ug/L	0.023	8	17	372	7	KED
|	**Zn**	**66**	**52.618**	ug/L	1.257	2	33	18658	1	KED
|	**Zn**	**67**	**47.176**	ug/L	1.333	2	3	2857	4	KED
⌊	**As**	**75**	**0.166**	ug/L	0.017	10	5	34	10	KED
	Y	**89**		ug/L			199932	204081	4	Standard
	Kr	**83**		ug/L			55	39	7	Standard
⌈>	**In-1**	**115**		ug/L			5415	5718	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	326	1	1	91	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.007	107	1	5	66	KED
⌈>	**Tb**	**159**		ug/L			457409	454421	4	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	3	92	1718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:13:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45620	3	Standard
	Cl	**37**		ug/L			3318464	3260661	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	423807	2	Standard
|	**Cr**	**52**	**0.383**	ug/L	0.051	13	15747	22795	2	Standard
|	**Cr**	**53**	**0.354**	ug/L	0.030	8	81	781	4	Standard
⌊	**Mn**	**55**	**1.233**	ug/L	0.013	1	555	30721	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20930	5	KED
|	**Ni**	**60**	**0.134**	ug/L	0.015	11	13	139	10	KED
|	**Ni**	**62**	**0.124**	ug/L	0.033	26	8	27	20	KED
|	**Cu**	**63**	**0.382**	ug/L	0.016	4	28	1092	2	KED
|	**Cu**	**65**	**0.404**	ug/L	0.017	4	17	574	9	KED
|	**Zn**	**66**	**8.639**	ug/L	0.140	1	33	3227	3	KED
|	**Zn**	**67**	**7.793**	ug/L	0.585	7	3	495	5	KED
⌊	**As**	**75**	**0.173**	ug/L	0.024	13	5	37	10	KED
	Y	**89**		ug/L			199932	205177	2	Standard
	Kr	**83**		ug/L			55	42	38	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	109	1	1	34	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	1	0	154	KED
⌈>	**Tb**	**159**		ug/L			457409	474826	3	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	6	92	900	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0612-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:17:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	57890	1	Standard
	Cl	**37**		ug/L			3318464	3606158	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	473375	2	Standard
|	**Cr**	**52**	**1.614**	ug/L	0.067	4	15747	48662	0	Standard
|	**Cr**	**53**	**1.814**	ug/L	0.025	1	81	4083	2	Standard
⌊	**Mn**	**55**	**235.781**	ug/L	4.900	2	555	6437196	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20609	0	KED
|	**Ni**	**60**	**3.552**	ug/L	0.325	9	13	3285	9	KED
|	**Ni**	**62**	**3.715**	ug/L	0.144	3	8	569	3	KED
|	**Cu**	**63**	**4.040**	ug/L	0.058	1	28	11115	0	KED
|	**Cu**	**65**	**4.237**	ug/L	0.092	2	17	5759	2	KED
|	**Zn**	**66**	**7.227**	ug/L	0.044	0	33	2666	1	KED
|	**Zn**	**67**	**9.392**	ug/L	0.362	3	3	587	4	KED
⌊	**As**	**75**	**0.432**	ug/L	0.039	8	5	84	8	KED
	Y	**89**		ug/L			199932	224064	2	Standard
	Kr	**83**		ug/L			55	41	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5487	2	KED
|	**Cd**	**111**	**0.280**	ug/L	0.029	10	1	57	8	KED
⌊	**Cd**	**114**	**0.268**	ug/L	0.046	17	1	131	15	KED
⌈>	**Tb**	**159**		ug/L			457409	486470	3	Standard
⌊	**Pb**	**208**	**0.683**	ug/L	0.022	3	92	27689	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	54314	0	Standard
	Cl	**37**		ug/L			3318464	3693854	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	458604	2	Standard
|	**Cr**	**52**	**1.555**	ug/L	0.067	4	15747	46059	2	Standard
|	**Cr**	**53**	**1.708**	ug/L	0.052	3	81	3728	0	Standard
⌊	**Mn**	**55**	**229.361**	ug/L	5.344	2	555	6066297	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	19572	2	KED
|	**Ni**	**60**	**3.456**	ug/L	0.068	1	13	3035	2	KED
|	**Ni**	**62**	**3.407**	ug/L	0.142	4	8	496	3	KED
|	**Cu**	**63**	**4.107**	ug/L	0.103	2	28	10729	0	KED
|	**Cu**	**65**	**4.106**	ug/L	0.126	3	17	5303	4	KED
|	**Zn**	**66**	**6.959**	ug/L	0.240	3	33	2439	4	KED
|	**Zn**	**67**	**9.027**	ug/L	0.310	3	3	536	1	KED
⌊	**As**	**75**	**0.454**	ug/L	0.019	4	5	84	4	KED
	Y	**89**		ug/L			199932	208496	2	Standard
	Kr	**83**		ug/L			55	49	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	5597	1	KED
|	**Cd**	**111**	**0.310**	ug/L	0.018	5	1	64	6	KED
⌊	**Cd**	**114**	**0.283**	ug/L	0.017	5	1	141	6	KED
⌈>	**Tb**	**159**		ug/L			457409	466932	4	Standard
⌊	**Pb**	**208**	**0.661**	ug/L	0.018	2	92	25707	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			33587	48512	2	Standard
	Cl		37		ug/L			3318464	3728660	0	Standard
>	Sc		45		ug/L			408513	452065	2	Standard
	Cr		52	25.566	ug/L	0.743	2	15747	477531	0	Standard
	Cr		53	25.252	ug/L	0.699	2	81	53110	0	Standard
	Mn	STL	55	253.723	ug/L	2.833	1	555	6616659	2	Standard
>	Ge		72		ug/L			19427	19338	1	KED
	Ni		60	31.412	ug/L	0.405	1	13	27147	0	KED
	Ni		62	31.206	ug/L	0.733	2	8	4429	3	KED
	Cu		63	30.265	ug/L	0.252	0	28	77959	0	KED
	Cu		65	30.490	ug/L	0.053	0	17	38789	1	KED
	Zn		66	84.055	ug/L	2.072	2	33	28736	2	KED
	Zn		67	81.619	ug/L	1.242	1	3	4763	0	KED
	As		75	25.683	ug/L	0.180	0	5	4430	0	KED
	Y		89		ug/L			199932	212169	0	Standard
	Kr		83		ug/L			55	62	16	Standard
>	In-1		115		ug/L			5415	5409	1	KED
	Cd		111	25.302	ug/L	0.634	2	1	4958	0	KED
	Cd		114	25.162	ug/L	0.568	2	1	11977	0	KED
>	Tb		159		ug/L			457409	465004	3	Standard
	Pb		208	28.627	ug/L	1.065	3	92	1105250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:32:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31245	3	Standard
	Cl	**37**		ug/L			3318464	3504213	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	393571	6	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.015	71	15747	15493	4	Standard
|	**Cr**	**53**	**0.024**	ug/L	0.012	50	81	120	13	Standard
⌊	**Mn**	**55**	**0.021**	ug/L	0.005	21	555	1014	12	Standard
⌈>	**Ge**	**72**		ug/L			19427	20139	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	57	13	8	32	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.001	2	8	5	0	KED
|	**Cu**	**63**	**0.005**	ug/L	0.000	4	28	41	0	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	80	17	13	20	KED
|	**Zn**	**66**	**0.009**	ug/L	0.004	44	33	38	5	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.054	2197	3	3	86	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.008	170	5	4	32	KED
	Y	**89**		ug/L			199932	191989	2	Standard
	Kr	**83**		ug/L			55	42	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5524	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	168	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	144	1	1	90	KED
⌈>	**Tb**	**159**		ug/L			457409	446015	6	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	17	92	279	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:36:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	33647	1	Standard
	Cl	**37**		ug/L			3318464	3707357	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	435452	1	Standard
⎢	**Cr**	**52**	**50.081**	ug/L	0.953	1	15747	885200	0	Standard
⎢	**Cr**	**53**	**50.410**	ug/L	0.762	1	81	102075	1	Standard
⎣	**Mn**	**55**	**51.436**	ug/L	0.123	0	555	1292705	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20607	4	KED
⎢	**Ni**	**60**	**51.134**	ug/L	0.755	1	13	47074	3	KED
⎢	**Ni**	**62**	**51.624**	ug/L	1.291	2	8	7796	2	KED
⎢	**Cu**	**63**	**51.331**	ug/L	0.752	1	28	140827	3	KED
⎢	**Cu**	**65**	**51.481**	ug/L	1.532	2	17	69742	3	KED
⎢	**Zn**	**66**	**51.087**	ug/L	0.927	1	33	18618	2	KED
⎢	**Zn**	**67**	**51.512**	ug/L	2.299	4	3	3201	1	KED
⎣	**As**	**75**	**50.374**	ug/L	0.634	1	5	9252	3	KED
	Y	**89**		ug/L			199932	211392	2	Standard
	Kr	**83**		ug/L			55	59	8	Standard
⎡>	**In-1**	**115**		ug/L			5415	5800	1	KED
⎢	**Cd**	**111**	**51.708**	ug/L	0.765	1	1	10866	0	KED
⎣	**Cd**	**114**	**51.413**	ug/L	0.327	0	1	26249	2	KED
⎡>	**Tb**	**159**		ug/L			457409	489522	3	Standard
⎣	**Pb**	**208**	**54.269**	ug/L	1.446	2	92	2206418	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:43:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30478	2	Standard
	Cl	**37**		ug/L			3318464	3570448	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	400324	2	Standard
⎢	**Cr**	**52**	**0.018**	ug/L	0.023	132	15747	15709	2	Standard
⎢	**Cr**	**53**	**0.009**	ug/L	0.004	38	81	96	6	Standard
⎣	**Mn**	**55**	**0.005**	ug/L	0.004	70	555	666	13	Standard
⎡>	**Ge**	**72**		ug/L			19427	20049	2	KED
⎢	**Ni**	**60**	**0.000**	ug/L	0.004	2477	13	13	28	KED
⎢	**Ni**	**62**	**-0.028**	ug/L	0.014	51	8	4	49	KED
⎢	**Cu**	**63**	**0.005**	ug/L	0.002	45	28	43	13	KED
⎢	**Cu**	**65**	**0.007**	ug/L	0.004	61	17	26	21	KED
⎢	**Zn**	**66**	**0.094**	ug/L	0.028	29	33	67	13	KED
⎢	**Zn**	**67**	**0.082**	ug/L	0.102	124	3	8	68	KED
⎣	**As**	**75**	**-0.000**	ug/L	0.010	4987	5	5	36	KED
	Y	**89**		ug/L			199932	193790	1	Standard
	Kr	**83**		ug/L			55	43	24	Standard
⎡>	**In-1**	**115**		ug/L			5415	5596	0	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.003	79	1	1	43	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.004	2086	1	1	107	KED
⎡>	**Tb**	**159**		ug/L			457409	448177	4	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.004	62	92	317	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0010-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:48:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43568	5	Standard
	Cl	**37**		ug/L			3318464	3501110	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	394796	11	Standard
|	**Cr**	**52**	**0.233**	ug/L	0.079	34	15747	18788	4	Standard
|	**Cr**	**53**	**0.250**	ug/L	0.025	9	81	533	3	Standard
⌊	**Mn**	**55**	**2.655**	ug/L	0.126	4	555	60792	6	Standard
⌈>	**Ge**	**72**		ug/L			19427	19575	1	KED
|	**Ni**	**60**	**0.144**	ug/L	0.004	2	13	139	2	KED
|	**Ni**	**62**	**0.101**	ug/L	0.022	21	8	22	14	KED
|	**Cu**	**63**	**1.064**	ug/L	0.041	3	28	2803	4	KED
|	**Cu**	**65**	**1.064**	ug/L	0.043	4	17	1386	4	KED
|	**Zn**	**66**	**17.834**	ug/L	0.454	2	33	6198	1	KED
|	**Zn**	**67**	**15.570**	ug/L	0.963	6	3	923	6	KED
⌊	**As**	**75**	**0.094**	ug/L	0.015	15	5	21	11	KED
	Y	**89**		ug/L			199932	194758	8	Standard
	Kr	**83**		ug/L			55	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5410	1	KED
|	**Cd**	**111**	**0.031**	ug/L	0.017	54	1	7	42	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.010	30	1	17	27	KED
⌈>	**Tb**	**159**		ug/L			457409	441334	12	Standard
⌊	**Pb**	**208**	**0.124**	ug/L	0.009	6	92	4600	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0013-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:52:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40764	4	Standard
	Cl	**37**		ug/L			3318464	4278838	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	442684	2	Standard
|	**Cr**	**52**	**1.525**	ug/L	0.047	3	15747	43948	0	Standard
|	**Cr**	**53**	**2.149**	ug/L	0.050	2	81	4507	1	Standard
⌊	**Mn**	**55**	**7.713**	ug/L	0.072	0	555	197603	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20179	1	KED
|	**Ni**	**60**	**0.875**	ug/L	0.042	4	13	802	3	KED
|	**Ni**	**62**	**0.835**	ug/L	0.044	5	8	132	5	KED
|	**Cu**	**63**	**4.024**	ug/L	0.175	4	28	10835	2	KED
|	**Cu**	**65**	**4.146**	ug/L	0.092	2	17	5519	2	KED
|	**Zn**	**66**	**35.740**	ug/L	1.453	4	33	12767	3	KED
|	**Zn**	**67**	**34.458**	ug/L	1.173	3	3	2100	1	KED
⌊	**As**	**75**	**0.583**	ug/L	0.019	3	5	110	4	KED
	Y	**89**		ug/L			199932	212904	0	Standard
	Kr	**83**		ug/L			55	51	25	Standard
⌈>	**In-1**	**115**		ug/L			5415	5491	0	KED
|	**Cd**	**111**	**0.037**	ug/L	0.010	28	1	9	21	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.024	56	1	22	51	KED
⌈>	**Tb**	**159**		ug/L			457409	480657	4	Standard
⌊	**Pb**	**208**	**1.292**	ug/L	0.059	4	92	51630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:56:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	112973	3	Standard
	Cl	**37**		ug/L			3318464	3436786	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438051	2	Standard
|	**Cr**	**52**	**0.757**	ug/L	0.017	2	15747	30093	2	Standard
|	**Cr**	**53**	**0.633**	ug/L	0.018	2	81	1375	3	Standard
⌊	**Mn**	**55**	**137.991**	ug/L	2.605	1	555	3486652	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21068	2	KED
|	**Ni**	**60**	**22.080**	ug/L	0.986	4	13	20782	2	KED
|	**Ni**	**62**	**21.694**	ug/L	0.462	2	8	3356	2	KED
|	**Cu**	**63**	**6.877**	ug/L	0.269	3	28	19311	1	KED
|	**Cu**	**65**	**6.946**	ug/L	0.280	4	17	9635	1	KED
|	**Zn**	**66**	**2.584**	ug/L	0.087	3	33	997	2	KED
|	**Zn**	**67**	**2.439**	ug/L	0.281	11	3	159	13	KED
⌊	**As**	**75**	**0.432**	ug/L	0.023	5	5	86	2	KED
	Y	**89**		ug/L			199932	204220	0	Standard
	Kr	**83**		ug/L			55	43	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5520	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	160	1	3	62	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	136	1	4	82	KED
⌈>	**Tb**	**159**		ug/L			457409	463321	4	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.002	10	92	930	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:01:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	62082	1	Standard
	Cl	**37**		ug/L			3318464	3812204	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	426637	2	Standard
|	**Cr**	**52**	**1.955**	ug/L	0.045	2	15747	49656	2	Standard
|	**Cr**	**53**	**2.166**	ug/L	0.032	1	81	4377	2	Standard
⌊	**Mn**	**55**	**244.340**	ug/L	2.654	1	555	6013502	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21093	1	KED
|	**Ni**	**60**	**3.642**	ug/L	0.207	5	13	3443	3	KED
|	**Ni**	**62**	**3.751**	ug/L	0.088	2	8	588	3	KED
|	**Cu**	**63**	**17.431**	ug/L	0.298	1	28	48980	0	KED
|	**Cu**	**65**	**17.903**	ug/L	0.199	1	17	24848	1	KED
|	**Zn**	**66**	**1001.272**	ug/L	14.385	1	33	372960	0	KED
|	**Zn**	**67**	**872.911**	ug/L	18.856	2	3	55528	1	KED
⌊	**As**	**75**	**0.516**	ug/L	0.018	3	5	102	1	KED
	Y	**89**		ug/L			199932	212826	2	Standard
	Kr	**83**		ug/L			55	54	11	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**0.122**	ug/L	0.025	20	1	28	20	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.007	5	1	64	4	KED
⌈>	**Tb**	**159**		ug/L			457409	470457	4	Standard
⌊	**Pb**	**208**	**1.411**	ug/L	0.063	4	92	55174	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0522-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:05:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41811	0	Standard
	Cl	**37**		ug/L			3318464	3669736	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	422121	3	Standard
|	**Cr**	**52**	**1.264**	ug/L	0.080	6	15747	37501	0	Standard
|	**Cr**	**53**	**1.465**	ug/L	0.055	3	81	2956	0	Standard
⌊	**Mn**	**55**	**14.832**	ug/L	0.130	0	555	361686	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20665	1	KED
|	**Ni**	**60**	**0.888**	ug/L	0.101	11	13	833	10	KED
|	**Ni**	**62**	**0.865**	ug/L	0.056	6	8	139	6	KED
|	**Cu**	**63**	**5.761**	ug/L	0.141	2	28	15883	2	KED
|	**Cu**	**65**	**5.782**	ug/L	0.155	2	17	7873	1	KED
|	**Zn**	**66**	**82.513**	ug/L	3.369	4	33	30136	2	KED
|	**Zn**	**67**	**75.416**	ug/L	2.102	2	3	4703	1	KED
⌊	**As**	**75**	**0.226**	ug/L	0.050	21	5	46	18	KED
	Y	**89**		ug/L			199932	205975	1	Standard
	Kr	**83**		ug/L			55	49	37	Standard
⌈>	**In-1**	**115**		ug/L			5415	5674	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.007	14	1	12	11	KED
⌊	**Cd**	**114**	**0.047**	ug/L	0.004	9	1	25	7	KED
⌈>	**Tb**	**159**		ug/L			457409	471462	4	Standard
⌊	**Pb**	**208**	**1.899**	ug/L	0.082	4	92	74386	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:10:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	73362	1	Standard
	Cl	**37**		ug/L			3318464	3547350	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	470934	2	Standard
|	**Cr**	**52**	**2.684**	ug/L	0.054	2	15747	68510	3	Standard
|	**Cr**	**53**	**2.756**	ug/L	0.007	0	81	6125	2	Standard
⌊	**Mn**	**55**	**61.284**	ug/L	1.402	2	555	1665396	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20630	2	KED
|	**Ni**	**60**	**1.355**	ug/L	0.091	6	13	1263	7	KED
|	**Ni**	**62**	**1.282**	ug/L	0.068	5	8	202	5	KED
|	**Cu**	**63**	**12.971**	ug/L	0.255	1	28	35655	0	KED
|	**Cu**	**65**	**12.556**	ug/L	0.187	1	17	17054	3	KED
|	**Zn**	**66**	**378.690**	ug/L	9.701	2	33	137965	1	KED
|	**Zn**	**67**	**338.156**	ug/L	1.487	0	3	21045	1	KED
⌊	**As**	**75**	**2.786**	ug/L	0.023	0	5	517	1	KED
	Y	**89**		ug/L			199932	234872	2	Standard
	Kr	**83**		ug/L			55	46	28	Standard
⌈>	**In-1**	**115**		ug/L			5415	5776	2	KED
|	**Cd**	**111**	**0.177**	ug/L	0.017	9	1	39	11	KED
⌊	**Cd**	**114**	**0.169**	ug/L	0.030	17	1	87	17	KED
⌈>	**Tb**	**159**		ug/L			457409	489149	4	Standard
⌊	**Pb**	**208**	**2.696**	ug/L	0.105	3	92	109586	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:14:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	72363	3	Standard
	Cl	**37**		ug/L			3318464	44785837	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	359597	2	Standard
|	**Cr**	**52**	**3.344**	ug/L	0.117	3	15747	61729	1	Standard
|	**Cr**	**53**	**23.770**	ug/L	0.726	3	81	39771	0	Standard
⌊	**Mn**	**55**	**92.855**	ug/L	2.112	2	555	1926060	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	15011	1	KED
|	**Ni**	**60**	**2.392**	ug/L	0.089	3	13	1614	3	KED
|	**Ni**	**62**	**3.682**	ug/L	0.185	5	8	411	6	KED
|	**Cu**	**63**	**10.188**	ug/L	0.137	1	28	20384	0	KED
|	**Cu**	**65**	**10.045**	ug/L	0.129	1	17	9928	1	KED
|	**Zn**	**66**	**280.800**	ug/L	1.862	0	33	74465	0	KED
|	**Zn**	**67**	**249.620**	ug/L	5.261	2	3	11303	0	KED
⌊	**As**	**75**	**1.175**	ug/L	0.026	2	5	161	0	KED
	Y	**89**		ug/L			199932	184503	1	Standard
	Kr	**83**		ug/L			55	2614	2	Standard
⌈>	**In-1**	**115**		ug/L			5415	4193	1	KED
|	**Cd**	**111**	**0.313**	ug/L	0.094	30	1	48	27	KED
⌊	**Cd**	**114**	**0.206**	ug/L	0.047	23	1	77	21	KED
⌈>	**Tb**	**159**		ug/L			457409	427012	2	Standard
⌊	**Pb**	**208**	**3.212**	ug/L	0.059	1	92	114017	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-DUP1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:18:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46050	5	Standard
	Cl	**37**		ug/L			3318464	9472557	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	435361	1	Standard
|	**Cr**	**52**	**17.479**	ug/L	0.342	1	15747	319825	0	Standard
|	**Cr**	**53**	**24.854**	ug/L	0.557	2	81	50357	0	Standard
⌊	**Mn**	**55**	**5.347**	ug/L	0.027	0	555	134867	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20069	1	KED
|	**Ni**	**60**	**2.259**	ug/L	0.040	1	13	2038	0	KED
|	**Ni**	**62**	**2.565**	ug/L	0.192	7	8	385	6	KED
|	**Cu**	**63**	**24.786**	ug/L	0.410	1	28	66263	1	KED
|	**Cu**	**65**	**25.388**	ug/L	0.459	1	17	33518	0	KED
|	**Zn**	**66**	**28.456**	ug/L	0.652	2	33	10118	0	KED
|	**Zn**	**67**	**24.653**	ug/L	0.449	1	3	1496	3	KED
⌊	**As**	**75**	**0.335**	ug/L	0.028	8	5	65	7	KED
	Y	**89**		ug/L			199932	200814	0	Standard
	Kr	**83**		ug/L			55	66	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5541	2	KED
|	**Cd**	**111**	**0.149**	ug/L	0.051	34	1	31	29	KED
⌊	**Cd**	**114**	**0.164**	ug/L	0.030	18	1	81	14	KED
⌈>	**Tb**	**159**		ug/L			457409	486106	3	Standard
⌊	**Pb**	**208**	**0.426**	ug/L	0.016	3	92	17305	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-MS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43978	1	Standard
	Cl	**37**		ug/L			3318464	9366230	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	443408	1	Standard
|	**Cr**	**52**	**42.648**	ug/L	0.410	0	15747	770251	0	Standard
|	**Cr**	**53**	**46.223**	ug/L	0.694	1	81	95321	0	Standard
⌊	**Mn**	**55**	**29.447**	ug/L	0.709	2	555	753736	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20923	1	KED
|	**Ni**	**60**	**28.103**	ug/L	0.049	0	13	26283	1	KED
|	**Ni**	**62**	**28.328**	ug/L	1.230	4	8	4351	5	KED
|	**Cu**	**63**	**50.240**	ug/L	0.859	1	28	139981	0	KED
|	**Cu**	**65**	**51.238**	ug/L	1.188	2	17	70506	2	KED
|	**Zn**	**66**	**103.825**	ug/L	0.413	0	33	38400	1	KED
|	**Zn**	**67**	**93.942**	ug/L	0.765	0	3	5933	2	KED
⌊	**As**	**75**	**26.513**	ug/L	0.322	1	5	4948	1	KED
	Y	**89**		ug/L			199932	207839	2	Standard
	Kr	**83**		ug/L			55	124	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5581	0	KED
|	**Cd**	**111**	**24.586**	ug/L	0.446	1	1	4973	1	KED
⌊	**Cd**	**114**	**24.953**	ug/L	0.544	2	1	12260	2	KED
⌈>	**Tb**	**159**		ug/L			457409	491432	3	Standard
⌊	**Pb**	**208**	**24.910**	ug/L	0.610	2	92	1016845	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:28:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32672	1	Standard
	Cl	**37**		ug/L			3318464	3853976	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	430854	1	Standard
|	**Cr**	**52**	**0.085**	ug/L	0.023	26	15747	18067	0	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.020	2	81	1442	4	Standard
⌊	**Mn**	**55**	**0.011**	ug/L	0.001	5	555	868	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21760	0	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.001	9	13	3	34	KED
|	**Ni**	**62**	**0.010**	ug/L	0.014	142	8	10	20	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	35	28	55	15	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	98	17	24	19	KED
|	**Zn**	**66**	**0.019**	ug/L	0.016	81	33	45	13	KED
|	**Zn**	**67**	**0.090**	ug/L	0.044	49	3	10	28	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.012	766	5	5	41	KED
	Y	**89**		ug/L			199932	208753	1	Standard
	Kr	**83**		ug/L			55	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	5908	3	KED
|	**Cd**	**111**	**0.005**	ug/L	0.014	282	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	800	1	2	120	KED
⌈>	**Tb**	**159**		ug/L			457409	488977	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	18	92	252	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:32:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32829	2	Standard
	Cl	**37**		ug/L			3318464	3828910	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	436149	1	Standard
⎢	**Cr**	**52**	**51.140**	ug/L	0.501	0	15747	905169	0	Standard
⎢	**Cr**	**53**	**51.343**	ug/L	0.769	1	81	104141	1	Standard
⎣	**Mn**	**55**	**52.117**	ug/L	0.697	1	555	1311988	2	Standard
⎡>	**Ge**	**72**		ug/L			19427	21735	0	KED
⎢	**Ni**	**60**	**51.373**	ug/L	0.445	0	13	49899	0	KED
⎢	**Ni**	**62**	**49.701**	ug/L	0.941	1	8	7922	1	KED
⎢	**Cu**	**63**	**51.021**	ug/L	0.847	1	28	147707	1	KED
⎢	**Cu**	**65**	**50.777**	ug/L	0.663	1	17	72594	1	KED
⎢	**Zn**	**66**	**51.553**	ug/L	0.870	1	33	19827	1	KED
⎢	**Zn**	**67**	**51.114**	ug/L	0.391	0	3	3355	0	KED
⎣	**As**	**75**	**51.747**	ug/L	0.321	0	5	10028	0	KED
	Y	**89**		ug/L			199932	216510	5	Standard
	Kr	**83**		ug/L			55	43	15	Standard
⎡>	**In-1**	**115**		ug/L			5415	5938	1	KED
⎢	**Cd**	**111**	**50.998**	ug/L	1.121	2	1	10972	1	KED
⎣	**Cd**	**114**	**52.391**	ug/L	1.022	1	1	27378	0	KED
⎡>	**Tb**	**159**		ug/L			457409	499124	3	Standard
⎣	**Pb**	**208**	**51.954**	ug/L	1.190	2	92	2154016	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:39:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	29955	2	Standard
	Cl	**37**		ug/L			3318464	3570965	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	408860	0	Standard
|	**Cr**	**52**	**0.054**	ug/L	0.022	40	15747	16648	3	Standard
|	**Cr**	**53**	**0.267**	ug/L	0.010	3	81	587	2	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.002	26	555	699	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20392	1	KED
|	**Ni**	**60**	**0.014**	ug/L	0.020	143	13	26	68	KED
|	**Ni**	**62**	**0.015**	ug/L	0.054	365	8	10	73	KED
|	**Cu**	**63**	**0.028**	ug/L	0.031	110	28	105	79	KED
|	**Cu**	**65**	**0.029**	ug/L	0.048	168	17	56	114	KED
|	**Zn**	**66**	**0.124**	ug/L	0.090	72	33	80	40	KED
|	**Zn**	**67**	**0.204**	ug/L	0.110	53	3	16	40	KED
⌊	**As**	**75**	**0.016**	ug/L	0.029	181	5	8	64	KED
	Y	**89**		ug/L			199932	198779	2	Standard
	Kr	**83**		ug/L			55	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5592	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	253	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	585	1	2	121	KED
⌈>	**Tb**	**159**		ug/L			457409	461457	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	12	92	231	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0523-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:43:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45919	1	Standard
	Cl	**37**		ug/L			3318464	3930683	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	461672	1	Standard
⎢	**Cr**	**52**	**1.132**	ug/L	0.015	1	15747	38604	0	Standard
⎢	**Cr**	**53**	**1.662**	ug/L	0.036	2	81	3656	2	Standard
⎣	**Mn**	**55**	**23.634**	ug/L	0.452	1	555	629960	0	Standard
⎡>	**Ge**	**72**		ug/L			19427	21545	1	KED
⎢	**Ni**	**60**	**1.088**	ug/L	0.025	2	13	1061	1	KED
⎢	**Ni**	**62**	**1.049**	ug/L	0.062	5	8	174	3	KED
⎢	**Cu**	**63**	**6.072**	ug/L	0.166	2	28	17448	1	KED
⎢	**Cu**	**65**	**6.011**	ug/L	0.162	2	17	8532	1	KED
⎢	**Zn**	**66**	**159.680**	ug/L	4.687	2	33	60776	1	KED
⎢	**Zn**	**67**	**149.875**	ug/L	4.288	2	3	9741	1	KED
⎣	**As**	**75**	**0.263**	ug/L	0.020	7	5	56	5	KED
	Y	**89**		ug/L			199932	224900	1	Standard
	Kr	**83**		ug/L			55	38	30	Standard
⎡>	**In-1**	**115**		ug/L			5415	5836	0	KED
⎢	**Cd**	**111**	**0.074**	ug/L	0.013	17	1	17	15	KED
⎣	**Cd**	**114**	**0.077**	ug/L	0.013	17	1	41	16	KED
⎡>	**Tb**	**159**		ug/L			457409	503216	4	Standard
⎣	**Pb**	**208**	**3.582**	ug/L	0.144	4	92	149711	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0540-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:48:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46915	4	Standard
	Cl	**37**		ug/L			3318464	4029684	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	440839	0	Standard
|	**Cr**	**52**	**1.798**	ug/L	0.065	3	15747	48562	1	Standard
|	**Cr**	**53**	**2.240**	ug/L	0.023	1	81	4675	1	Standard
⌊	**Mn**	**55**	**2.963**	ug/L	0.008	0	555	75955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	1	KED
|	**Ni**	**60**	**0.714**	ug/L	0.029	4	13	697	2	KED
|	**Ni**	**62**	**0.618**	ug/L	0.044	7	8	106	5	KED
|	**Cu**	**63**	**5.598**	ug/L	0.102	1	28	15986	0	KED
|	**Cu**	**65**	**5.418**	ug/L	0.098	1	17	7646	2	KED
|	**Zn**	**66**	**63.085**	ug/L	0.539	0	33	23886	1	KED
|	**Zn**	**67**	**59.096**	ug/L	3.677	6	3	3817	4	KED
⌊	**As**	**75**	**0.369**	ug/L	0.025	6	5	76	5	KED
	Y	**89**		ug/L			199932	216759	2	Standard
	Kr	**83**		ug/L			55	47	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	4	KED
|	**Cd**	**111**	**0.055**	ug/L	0.018	33	1	13	29	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.012	27	1	24	26	KED
⌈>	**Tb**	**159**		ug/L			457409	496838	2	Standard
⌊	**Pb**	**208**	**0.929**	ug/L	0.016	1	92	38464	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0542-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:52:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	49286	2	Standard
	Cl	**37**		ug/L			3318464	5333242	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	439861	2	Standard
|	**Cr**	**52**	**1.950**	ug/L	0.041	2	15747	51102	1	Standard
|	**Cr**	**53**	**3.265**	ug/L	0.103	3	81	6758	1	Standard
⌊	**Mn**	**55**	**12.410**	ug/L	0.336	2	555	315353	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20670	1	KED
|	**Ni**	**60**	**1.364**	ug/L	0.023	1	13	1273	1	KED
|	**Ni**	**62**	**1.339**	ug/L	0.067	5	8	211	4	KED
|	**Cu**	**63**	**10.573**	ug/L	0.133	1	28	29136	2	KED
|	**Cu**	**65**	**10.670**	ug/L	0.129	1	17	14521	1	KED
|	**Zn**	**66**	**133.560**	ug/L	1.550	1	33	48786	0	KED
|	**Zn**	**67**	**123.167**	ug/L	4.343	3	3	7682	3	KED
⌊	**As**	**75**	**0.796**	ug/L	0.032	4	5	152	5	KED
	Y	**89**		ug/L			199932	211968	1	Standard
	Kr	**83**		ug/L			55	41	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5794	2	KED
|	**Cd**	**111**	**0.099**	ug/L	0.016	16	1	22	12	KED
⌊	**Cd**	**114**	**0.094**	ug/L	0.018	18	1	50	16	KED
⌈>	**Tb**	**159**		ug/L			457409	487729	5	Standard
⌊	**Pb**	**208**	**6.348**	ug/L	0.343	5	92	256922	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:57:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43851	0	Standard
	Cl	**37**		ug/L			3318464	3700060	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	416761	1	Standard
|	**Cr**	**52**	**0.414**	ug/L	0.031	7	15747	22932	1	Standard
|	**Cr**	**53**	**0.604**	ug/L	0.007	1	81	1251	1	Standard
⌊	**Mn**	**55**	**5.422**	ug/L	0.105	1	555	130903	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21262	0	KED
|	**Ni**	**60**	**0.229**	ug/L	0.031	13	13	232	13	KED
|	**Ni**	**62**	**0.207**	ug/L	0.097	46	8	41	37	KED
|	**Cu**	**63**	**1.698**	ug/L	0.016	0	28	4839	1	KED
|	**Cu**	**65**	**1.709**	ug/L	0.026	1	17	2409	2	KED
|	**Zn**	**66**	**14.587**	ug/L	0.267	1	33	5514	1	KED
|	**Zn**	**67**	**12.104**	ug/L	0.438	3	3	780	2	KED
⌊	**As**	**75**	**0.183**	ug/L	0.023	12	5	40	11	KED
	Y	**89**		ug/L			199932	205769	1	Standard
	Kr	**83**		ug/L			55	46	26	Standard
⌈>	**In-1**	**115**		ug/L			5415	5761	2	KED
|	**Cd**	**111**	**0.098**	ug/L	0.017	17	1	22	17	KED
⌊	**Cd**	**114**	**0.112**	ug/L	0.025	22	1	59	22	KED
⌈>	**Tb**	**159**		ug/L			457409	474819	3	Standard
⌊	**Pb**	**208**	**4.591**	ug/L	0.202	4	92	181072	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:01:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42423	3	Standard
	Cl	**37**		ug/L			3318464	3617262	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	417780	0	Standard
|	**Cr**	**52**	**0.323**	ug/L	0.031	9	15747	21471	1	Standard
|	**Cr**	**53**	**0.436**	ug/L	0.020	4	81	928	3	Standard
⌊	**Mn**	**55**	**1.800**	ug/L	0.016	0	555	43955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20962	1	KED
|	**Ni**	**60**	**0.100**	ug/L	0.017	16	13	107	14	KED
|	**Ni**	**62**	**0.100**	ug/L	0.040	40	8	24	24	KED
|	**Cu**	**63**	**0.621**	ug/L	0.022	3	28	1762	2	KED
|	**Cu**	**65**	**0.559**	ug/L	0.051	9	17	788	8	KED
|	**Zn**	**66**	**10.897**	ug/L	0.233	2	33	4069	0	KED
|	**Zn**	**67**	**9.377**	ug/L	0.287	3	3	596	2	KED
⌊	**As**	**75**	**0.184**	ug/L	0.005	2	5	39	3	KED
	Y	**89**		ug/L			199932	205922	0	Standard
	Kr	**83**		ug/L			55	38	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	2	KED
|	**Cd**	**111**	**0.035**	ug/L	0.009	24	1	9	17	KED
⌊	**Cd**	**114**	**0.032**	ug/L	0.020	62	1	18	54	KED
⌈>	**Tb**	**159**		ug/L			457409	470943	2	Standard
⌊	**Pb**	**208**	**1.244**	ug/L	0.030	2	92	48750	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:05:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40565	0	Standard
	Cl	**37**		ug/L			3318464	3655989	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	416430	2	Standard
|	**Cr**	**52**	**0.559**	ug/L	0.050	8	15747	25316	1	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.034	4	81	1394	3	Standard
⌊	**Mn**	**55**	**5.240**	ug/L	0.099	1	555	126440	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21519	0	KED
|	**Ni**	**60**	**0.332**	ug/L	0.035	10	13	333	10	KED
|	**Ni**	**62**	**0.256**	ug/L	0.033	12	8	49	10	KED
|	**Cu**	**63**	**1.494**	ug/L	0.034	2	28	4311	2	KED
|	**Cu**	**65**	**1.489**	ug/L	0.065	4	17	2125	4	KED
|	**Zn**	**66**	**12.349**	ug/L	0.306	2	33	4730	2	KED
|	**Zn**	**67**	**11.283**	ug/L	0.427	3	3	736	3	KED
⌊	**As**	**75**	**0.157**	ug/L	0.026	16	5	35	14	KED
	Y	**89**		ug/L			199932	200972	1	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	6130	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.009	52	1	6	36	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.005	38	1	9	32	KED
⌈>	**Tb**	**159**		ug/L			457409	469615	5	Standard
⌊	**Pb**	**208**	**2.025**	ug/L	0.047	2	92	79080	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0545-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:10:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	38911	1	Standard
	Cl	**37**		ug/L			3318464	3496197	3	Standard
⎡>	**Sc**	**45**		ug/L			408513	439207	1	Standard
⎢	**Cr**	**52**	**2.993**	ug/L	0.029	0	15747	69300	2	Standard
⎢	**Cr**	**53**	**3.177**	ug/L	0.105	3	81	6570	2	Standard
⎣	**Mn**	**55**	**50.355**	ug/L	1.701	3	555	1275969	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	21059	1	KED
⎢	**Ni**	**60**	**3.909**	ug/L	0.102	2	13	3691	1	KED
⎢	**Ni**	**62**	**3.952**	ug/L	0.096	2	8	618	1	KED
⎢	**Cu**	**63**	**111.264**	ug/L	3.415	3	28	311963	1	KED
⎢	**Cu**	**65**	**112.206**	ug/L	3.498	3	17	155363	1	KED
⎢	**Zn**	**66**	**85.157**	ug/L	2.201	2	33	31703	1	KED
⎢	**Zn**	**67**	**75.845**	ug/L	0.627	0	3	4821	1	KED
⎣	**As**	**75**	**0.921**	ug/L	0.038	4	5	178	3	KED
	Y	**89**		ug/L			199932	230715	1	Standard
	Kr	**83**		ug/L			55	50	30	Standard
⎡>	**In-1**	**115**		ug/L			5415	5835	2	KED
⎢	**Cd**	**111**	**0.114**	ug/L	0.035	30	1	26	25	KED
⎣	**Cd**	**114**	**0.100**	ug/L	0.017	16	1	53	15	KED
⎡>	**Tb**	**159**		ug/L			457409	474970	4	Standard
⎣	**Pb**	**208**	**10.334**	ug/L	0.248	2	92	407679	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:14:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	47491	2	Standard
	Cl	**37**		ug/L			3318464	3761871	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	435530	1	Standard
|	**Cr**	**52**	**0.359**	ug/L	0.009	2	15747	23021	1	Standard
|	**Cr**	**53**	**0.738**	ug/L	0.025	3	81	1581	4	Standard
⌊	**Mn**	**55**	**13.529**	ug/L	0.234	1	555	340575	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	21065	1	KED
|	**Ni**	**60**	**1.278**	ug/L	0.104	8	13	1216	7	KED
|	**Ni**	**62**	**1.140**	ug/L	0.028	2	8	184	1	KED
|	**Cu**	**63**	**6.402**	ug/L	0.170	2	28	17987	2	KED
|	**Cu**	**65**	**6.410**	ug/L	0.096	1	17	8896	1	KED
|	**Zn**	**66**	**213.261**	ug/L	2.813	1	33	79385	2	KED
|	**Zn**	**67**	**187.414**	ug/L	3.654	1	3	11914	3	KED
⌊	**As**	**75**	**0.315**	ug/L	0.038	11	5	64	12	KED
	Y	**89**		ug/L			199932	213847	3	Standard
	Kr	**83**		ug/L			55	40	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5934	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.004	7	1	13	7	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.016	26	1	32	23	KED
⌈>	**Tb**	**159**		ug/L			457409	487352	3	Standard
⌊	**Pb**	**208**	**0.254**	ug/L	0.009	3	92	10381	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:18:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	50965	1	Standard
	Cl	**37**		ug/L			3318464	3717283	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	482502	1	Standard
|	**Cr**	**52**	**0.524**	ug/L	0.016	3	15747	28665	1	Standard
|	**Cr**	**53**	**0.733**	ug/L	0.018	2	81	1740	2	Standard
⌊	**Mn**	**55**	**10.486**	ug/L	0.272	2	555	292470	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21934	1	KED
|	**Ni**	**60**	**0.705**	ug/L	0.077	10	13	704	9	KED
|	**Ni**	**62**	**0.641**	ug/L	0.026	4	8	112	4	KED
|	**Cu**	**63**	**8.029**	ug/L	0.155	1	28	23479	0	KED
|	**Cu**	**65**	**7.974**	ug/L	0.179	2	17	11519	1	KED
|	**Zn**	**66**	**141.640**	ug/L	1.393	0	33	54906	1	KED
|	**Zn**	**67**	**123.924**	ug/L	3.182	2	3	8203	3	KED
⌊	**As**	**75**	**0.600**	ug/L	0.042	7	5	123	5	KED
	Y	**89**		ug/L			199932	223391	3	Standard
	Kr	**83**		ug/L			55	46	21	Standard
⌈>	**In-1**	**115**		ug/L			5415	5799	2	KED
|	**Cd**	**111**	**0.090**	ug/L	0.015	16	1	20	13	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.023	23	1	52	21	KED
⌈>	**Tb**	**159**		ug/L			457409	503616	3	Standard
⌊	**Pb**	**208**	**1.647**	ug/L	0.029	1	92	69013	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0547-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:24:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	61706	1	Standard
	Cl	**37**		ug/L			3318464	9362251	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	444137	3	Standard
|	**Cr**	**52**	**1.398**	ug/L	0.064	4	15747	41819	0	Standard
|	**Cr**	**53**	**4.986**	ug/L	0.196	3	81	10369	0	Standard
⌊	**Mn**	**55**	**2.608**	ug/L	0.141	5	555	67358	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19551	1	KED
|	**Ni**	**60**	**3.834**	ug/L	0.047	1	13	3361	1	KED
|	**Ni**	**62**	**4.014**	ug/L	0.292	7	8	582	6	KED
|	**Cu**	**63**	**70.251**	ug/L	2.226	3	28	182861	1	KED
|	**Cu**	**65**	**71.953**	ug/L	1.881	2	17	92499	0	KED
|	**Zn**	**66**	**488.968**	ug/L	3.227	0	33	168857	1	KED
|	**Zn**	**67**	**433.856**	ug/L	7.914	1	3	25587	2	KED
⌊	**As**	**75**	**1.428**	ug/L	0.102	7	5	253	5	KED
	Y	**89**		ug/L			199932	211673	1	Standard
	Kr	**83**		ug/L			55	57	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	0	KED
|	**Cd**	**111**	**0.759**	ug/L	0.037	4	1	153	4	KED
⌊	**Cd**	**114**	**0.784**	ug/L	0.047	6	1	383	6	KED
⌈>	**Tb**	**159**		ug/L			457409	493334	3	Standard
⌊	**Pb**	**208**	**0.507**	ug/L	0.019	3	92	20847	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:32:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31794	5	Standard
	Cl	**37**		ug/L			3318464	3712270	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	425363	4	Standard
|	**Cr**	**52**	**51.087**	ug/L	0.419	0	15747	881752	3	Standard
|	**Cr**	**53**	**51.068**	ug/L	0.505	0	81	101022	4	Standard
⌊	**Mn**	**55**	**51.893**	ug/L	1.017	1	555	1273383	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20738	1	KED
|	**Ni**	**60**	**50.850**	ug/L	1.099	2	13	47115	0	KED
|	**Ni**	**62**	**50.492**	ug/L	1.292	2	8	7676	1	KED
|	**Cu**	**63**	**49.409**	ug/L	1.167	2	28	136462	2	KED
|	**Cu**	**65**	**49.846**	ug/L	1.107	2	17	67981	0	KED
|	**Zn**	**66**	**50.636**	ug/L	1.107	2	33	18577	0	KED
|	**Zn**	**67**	**50.325**	ug/L	1.843	3	3	3150	2	KED
⌊	**As**	**75**	**49.995**	ug/L	1.497	2	5	9242	1	KED
	Y	**89**		ug/L			199932	208978	5	Standard
	Kr	**83**		ug/L			55	56	7	Standard
⌈>	**In-1**	**115**		ug/L			5415	5699	1	KED
|	**Cd**	**111**	**49.602**	ug/L	1.197	2	1	10242	1	KED
⌊	**Cd**	**114**	**50.166**	ug/L	1.564	3	1	25164	3	KED
⌈>	**Tb**	**159**		ug/L			457409	485359	5	Standard
⌊	**Pb**	**208**	**52.206**	ug/L	2.038	3	92	2102625	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:39:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30209	3	Standard
	Cl	**37**		ug/L			3318464	3596592	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	403045	1	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.008	26	15747	16008	1	Standard
|	**Cr**	**53**	**0.128**	ug/L	0.003	2	81	320	3	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	52	555	625	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	21913	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	38	13	9	20	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.019	177	8	7	43	KED
|	**Cu**	**63**	**0.010**	ug/L	0.003	31	28	62	16	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	32	17	27	7	KED
|	**Zn**	**66**	**0.062**	ug/L	0.039	62	33	61	21	KED
|	**Zn**	**67**	**0.071**	ug/L	0.113	159	3	8	81	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	746	5	6	40	KED
	Y	**89**		ug/L			199932	192600	2	Standard
	Kr	**83**		ug/L			55	52	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5970	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	238	1	1	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	125	1	1	112	KED
⌈>	**Tb**	**159**		ug/L			457409	456893	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	16	92	231	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:44:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48055	0	Standard
	Cl	**37**		ug/L			3318464	3704542	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438676	2	Standard
|	**Cr**	**52**	**0.848**	ug/L	0.037	4	15747	31725	3	Standard
|	**Cr**	**53**	**0.882**	ug/L	0.022	2	81	1885	4	Standard
⌊	**Mn**	**55**	**9.261**	ug/L	0.077	0	555	234950	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20753	1	KED
|	**Ni**	**60**	**0.527**	ug/L	0.021	4	13	502	3	KED
|	**Ni**	**62**	**0.474**	ug/L	0.098	20	8	80	16	KED
|	**Cu**	**63**	**3.779**	ug/L	0.027	0	28	10474	1	KED
|	**Cu**	**65**	**3.721**	ug/L	0.081	2	17	5094	1	KED
|	**Zn**	**66**	**188.434**	ug/L	2.218	1	33	69096	1	KED
|	**Zn**	**67**	**168.431**	ug/L	1.290	0	3	10547	1	KED
⌊	**As**	**75**	**0.184**	ug/L	0.018	9	5	39	7	KED
	Y	**89**		ug/L			199932	218062	2	Standard
	Kr	**83**		ug/L			55	59	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	4	KED
|	**Cd**	**111**	**0.064**	ug/L	0.018	29	1	15	25	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.019	41	1	24	42	KED
⌈>	**Tb**	**159**		ug/L			457409	490148	3	Standard
⌊	**Pb**	**208**	**3.069**	ug/L	0.058	1	92	125048	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:48:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43657	0	Standard
	Cl	**37**		ug/L			3318464	3658474	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	422079	0	Standard
|	**Cr**	**52**	**1.009**	ug/L	0.012	1	15747	33228	0	Standard
|	**Cr**	**53**	**1.017**	ug/L	0.028	2	81	2078	2	Standard
⌊	**Mn**	**55**	**5.766**	ug/L	0.126	2	555	140969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20820	1	KED
|	**Ni**	**60**	**0.448**	ug/L	0.012	2	13	431	3	KED
|	**Ni**	**62**	**0.379**	ug/L	0.028	7	8	66	4	KED
|	**Cu**	**63**	**3.316**	ug/L	0.038	1	28	9223	0	KED
|	**Cu**	**65**	**3.327**	ug/L	0.104	3	17	4574	3	KED
|	**Zn**	**66**	**167.344**	ug/L	3.320	1	33	61575	3	KED
|	**Zn**	**67**	**148.651**	ug/L	4.591	3	3	9337	2	KED
⌊	**As**	**75**	**0.150**	ug/L	0.021	14	5	33	13	KED
	Y	**89**		ug/L			199932	207357	2	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5774	4	KED
|	**Cd**	**111**	**0.046**	ug/L	0.025	55	1	11	41	KED
⌊	**Cd**	**114**	**0.039**	ug/L	0.010	27	1	21	22	KED
⌈>	**Tb**	**159**		ug/L			457409	474673	2	Standard
⌊	**Pb**	**208**	**1.989**	ug/L	0.047	2	92	78518	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0550-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:52:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40883	3	Standard
	Cl	**37**		ug/L			3318464	3612005	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	453549	3	Standard
|	**Cr**	**52**	**0.188**	ug/L	0.036	19	15747	20862	0	Standard
|	**Cr**	**53**	**0.284**	ug/L	0.020	7	81	689	7	Standard
⌊	**Mn**	**55**	**3.705**	ug/L	0.107	2	555	97489	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21244	4	KED
|	**Ni**	**60**	**0.315**	ug/L	0.034	10	13	312	7	KED
|	**Ni**	**62**	**0.253**	ug/L	0.065	25	8	48	20	KED
|	**Cu**	**63**	**2.226**	ug/L	0.073	3	28	6323	3	KED
|	**Cu**	**65**	**2.248**	ug/L	0.119	5	17	3155	1	KED
|	**Zn**	**66**	**31.792**	ug/L	0.338	1	33	11968	5	KED
|	**Zn**	**67**	**27.264**	ug/L	1.079	3	3	1752	7	KED
⌊	**As**	**75**	**0.102**	ug/L	0.013	13	5	24	6	KED
	Y	**89**		ug/L			199932	218574	2	Standard
	Kr	**83**		ug/L			55	46	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	6221	4	KED
|	**Cd**	**111**	**0.013**	ug/L	0.005	38	1	5	21	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.005	69	1	6	44	KED
⌈>	**Tb**	**159**		ug/L			457409	499761	5	Standard
⌊	**Pb**	**208**	**1.312**	ug/L	0.060	4	92	54495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0551-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:57:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48956	1	Standard
	Cl	**37**		ug/L			3318464	3670526	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	457755	1	Standard
|	**Cr**	**52**	**0.579**	ug/L	0.029	4	15747	28204	1	Standard
|	**Cr**	**53**	**0.753**	ug/L	0.013	1	81	1691	0	Standard
⌊	**Mn**	**55**	**8.170**	ug/L	0.125	1	555	216381	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	0	KED
|	**Ni**	**60**	**0.531**	ug/L	0.016	2	13	522	3	KED
|	**Ni**	**62**	**0.512**	ug/L	0.114	22	8	89	20	KED
|	**Cu**	**63**	**5.284**	ug/L	0.208	3	28	15094	4	KED
|	**Cu**	**65**	**5.326**	ug/L	0.048	0	17	7516	0	KED
|	**Zn**	**66**	**47.155**	ug/L	0.820	1	33	17864	1	KED
|	**Zn**	**67**	**41.932**	ug/L	0.491	1	3	2712	1	KED
⌊	**As**	**75**	**0.392**	ug/L	0.012	2	5	80	2	KED
	Y	**89**		ug/L			199932	214863	1	Standard
	Kr	**83**		ug/L			55	45	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5966	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.017	32	1	13	28	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.016	48	1	19	44	KED
⌈>	**Tb**	**159**		ug/L			457409	484836	4	Standard
⌊	**Pb**	**208**	**0.777**	ug/L	0.036	4	92	31375	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0552-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:01:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	39475	2	Standard
	Cl	**37**		ug/L			3318464	3612996	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	426365	1	Standard
|	**Cr**	**52**	**0.835**	ug/L	0.036	4	15747	30608	0	Standard
|	**Cr**	**53**	**0.926**	ug/L	0.036	3	81	1918	1	Standard
⌊	**Mn**	**55**	**14.974**	ug/L	0.375	2	555	368797	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21161	2	KED
|	**Ni**	**60**	**0.644**	ug/L	0.031	4	13	622	3	KED
|	**Ni**	**62**	**0.566**	ug/L	0.087	15	8	96	11	KED
|	**Cu**	**63**	**2.848**	ug/L	0.120	4	28	8052	1	KED
|	**Cu**	**65**	**2.912**	ug/L	0.087	2	17	4068	1	KED
|	**Zn**	**66**	**100.665**	ug/L	3.149	3	33	37638	0	KED
|	**Zn**	**67**	**88.356**	ug/L	4.563	5	3	5639	3	KED
⌊	**As**	**75**	**0.185**	ug/L	0.033	17	5	40	17	KED
	Y	**89**		ug/L			199932	211332	1	Standard
	Kr	**83**		ug/L			55	39	10	Standard
⌈>	**In-1**	**115**		ug/L			5415	5813	2	KED
|	**Cd**	**111**	**0.039**	ug/L	0.012	32	1	10	23	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.000	1	1	16	3	KED
⌈>	**Tb**	**159**		ug/L			457409	480481	4	Standard
⌊	**Pb**	**208**	**1.376**	ug/L	0.051	3	92	54960	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0553-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:05:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46289	2	Standard
	Cl	**37**		ug/L			3318464	3604765	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	431442	4	Standard
|	**Cr**	**52**	**0.351**	ug/L	0.033	9	15747	22652	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.004	1	81	739	4	Standard
⌊	**Mn**	**55**	**3.398**	ug/L	0.051	1	555	85136	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20824	1	KED
|	**Ni**	**60**	**0.288**	ug/L	0.042	14	13	282	14	KED
|	**Ni**	**62**	**0.208**	ug/L	0.058	27	8	40	21	KED
|	**Cu**	**63**	**1.501**	ug/L	0.033	2	28	4192	1	KED
|	**Cu**	**65**	**1.475**	ug/L	0.078	5	17	2038	5	KED
|	**Zn**	**66**	**72.333**	ug/L	1.028	1	33	26636	1	KED
|	**Zn**	**67**	**64.667**	ug/L	1.018	1	3	4065	0	KED
⌊	**As**	**75**	**0.156**	ug/L	0.007	4	5	34	4	KED
	Y	**89**		ug/L			199932	210937	3	Standard
	Kr	**83**		ug/L			55	55	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	6126	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.005	26	1	6	17	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.007	26	1	15	24	KED
⌈>	**Tb**	**159**		ug/L			457409	483078	6	Standard
⌊	**Pb**	**208**	**0.320**	ug/L	0.013	3	92	12936	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:10:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	49934	1	Standard
	Cl	**37**		ug/L			3318464	3799721	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	432185	2	Standard
⎢	**Cr**	**52**	**1.215**	ug/L	0.011	0	15747	37569	2	Standard
⎢	**Cr**	**53**	**1.492**	ug/L	0.032	2	81	3081	1	Standard
⎣	**Mn**	**55**	**64.166**	ug/L	0.454	0	555	1600218	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20626	2	KED
⎢	**Ni**	**60**	**33.597**	ug/L	0.744	2	13	30963	0	KED
⎢	**Ni**	**62**	**33.669**	ug/L	1.644	4	8	5092	2	KED
⎢	**Cu**	**63**	**67.036**	ug/L	2.008	2	28	184076	0	KED
⎢	**Cu**	**65**	**68.135**	ug/L	1.385	2	17	92419	1	KED
⎢	**Zn**	**66**	**24.753**	ug/L	0.855	3	33	9048	1	KED
⎢	**Zn**	**67**	**23.377**	ug/L	1.425	6	3	1457	4	KED
⎣	**As**	**75**	**0.502**	ug/L	0.062	12	5	97	12	KED
	Y	**89**		ug/L			199932	207457	2	Standard
	Kr	**83**		ug/L			55	46	22	Standard
⎡>	**In-1**	**115**		ug/L			5415	5885	0	KED
⎢	**Cd**	**111**	**0.296**	ug/L	0.049	16	1	65	15	KED
⎣	**Cd**	**114**	**0.311**	ug/L	0.000	0	1	163	0	KED
⎡>	**Tb**	**159**		ug/L			457409	471305	3	Standard
⎣	**Pb**	**208**	**8.164**	ug/L	0.264	3	92	319597	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:14:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	52582	0	Standard
	Cl	**37**		ug/L			3318464	3867292	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	421927	0	Standard
|	**Cr**	**52**	**0.693**	ug/L	0.036	5	15747	27915	2	Standard
|	**Cr**	**53**	**1.351**	ug/L	0.019	1	81	2732	1	Standard
⌊	**Mn**	**55**	**1.707**	ug/L	0.006	0	555	42111	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20767	0	KED
|	**Ni**	**60**	**4.146**	ug/L	0.119	2	13	3860	2	KED
|	**Ni**	**62**	**3.982**	ug/L	0.216	5	8	614	5	KED
|	**Cu**	**63**	**10.911**	ug/L	0.310	2	28	30203	2	KED
|	**Cu**	**65**	**11.248**	ug/L	0.323	2	17	15378	2	KED
|	**Zn**	**66**	**3.154**	ug/L	0.147	4	33	1193	5	KED
|	**Zn**	**67**	**3.077**	ug/L	0.337	10	3	196	10	KED
⌊	**As**	**75**	**0.191**	ug/L	0.030	15	5	40	12	KED
	Y	**89**		ug/L			199932	205403	1	Standard
	Kr	**83**		ug/L			55	46	2	Standard
⌈>	**In-1**	**115**		ug/L			5415	5667	2	KED
|	**Cd**	**111**	**0.023**	ug/L	0.018	76	1	6	51	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.012	32	1	20	28	KED
⌈>	**Tb**	**159**		ug/L			457409	467988	4	Standard
⌊	**Pb**	**208**	**1.871**	ug/L	0.054	2	92	72798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0555-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	96660	1	Standard
	Cl	**37**		ug/L			3318464	3971335	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	451429	1	Standard
|	**Cr**	**52**	**1.150**	ug/L	0.035	3	15747	38092	3	Standard
|	**Cr**	**53**	**1.552**	ug/L	0.047	2	81	3344	1	Standard
⌊	**Mn**	**55**	**8.873**	ug/L	0.064	0	555	231663	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20656	2	KED
|	**Ni**	**60**	**0.913**	ug/L	0.085	9	13	856	8	KED
|	**Ni**	**62**	**0.927**	ug/L	0.100	10	8	149	11	KED
|	**Cu**	**63**	**6.054**	ug/L	0.031	0	28	16682	1	KED
|	**Cu**	**65**	**6.111**	ug/L	0.056	0	17	8318	1	KED
|	**Zn**	**66**	**75.267**	ug/L	1.409	1	33	27485	0	KED
|	**Zn**	**67**	**67.567**	ug/L	1.891	2	3	4212	2	KED
⌊	**As**	**75**	**0.291**	ug/L	0.007	2	5	58	0	KED
	Y	**89**		ug/L			199932	223499	3	Standard
	Kr	**83**		ug/L			55	44	10	Standard
⌈>	**In-1**	**115**		ug/L			5415	5889	4	KED
|	**Cd**	**111**	**0.312**	ug/L	0.039	12	1	68	15	KED
⌊	**Cd**	**114**	**0.291**	ug/L	0.019	6	1	153	8	KED
⌈>	**Tb**	**159**		ug/L			457409	504449	3	Standard
⌊	**Pb**	**208**	**1.158**	ug/L	0.042	3	92	48617	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0556-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:24:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46977	1	Standard
	Cl	**37**		ug/L			3318464	3685710	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	431243	2	Standard
|	**Cr**	**52**	**0.594**	ug/L	0.039	6	15747	26807	0	Standard
|	**Cr**	**53**	**0.628**	ug/L	0.011	1	81	1343	2	Standard
⌊	**Mn**	**55**	**8.247**	ug/L	0.180	2	555	205701	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20826	3	KED
|	**Ni**	**60**	**0.449**	ug/L	0.032	7	13	432	7	KED
|	**Ni**	**62**	**0.390**	ug/L	0.111	28	8	68	26	KED
|	**Cu**	**63**	**3.462**	ug/L	0.052	1	28	9632	3	KED
|	**Cu**	**65**	**3.540**	ug/L	0.271	7	17	4860	5	KED
|	**Zn**	**66**	**27.728**	ug/L	0.943	3	33	10227	1	KED
|	**Zn**	**67**	**25.657**	ug/L	0.798	3	3	1616	6	KED
⌊	**As**	**75**	**0.995**	ug/L	0.084	8	5	190	9	KED
	Y	**89**		ug/L			199932	204874	1	Standard
	Kr	**83**		ug/L			55	46	6	Standard
⌈>	**In-1**	**115**		ug/L			5415	6070	2	KED
|	**Cd**	**111**	**0.093**	ug/L	0.007	7	1	22	4	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.009	9	1	53	6	KED
⌈>	**Tb**	**159**		ug/L			457409	472358	5	Standard
⌊	**Pb**	**208**	**0.518**	ug/L	0.020	3	92	20382	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:32:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32341	2	Standard
	Cl	**37**		ug/L			3318464	3720716	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	432297	0	Standard
⎢	**Cr**	**52**	**50.387**	ug/L	0.595	1	15747	884217	0	Standard
⎢	**Cr**	**53**	**50.590**	ug/L	0.950	1	81	101714	1	Standard
⎣	**Mn**	**55**	**51.878**	ug/L	0.507	0	555	1294415	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20405	2	KED
⎢	**Ni**	**60**	**51.402**	ug/L	1.519	2	13	46852	1	KED
⎢	**Ni**	**62**	**50.393**	ug/L	0.834	1	8	7539	1	KED
⎢	**Cu**	**63**	**50.650**	ug/L	1.654	3	28	137594	1	KED
⎢	**Cu**	**65**	**51.154**	ug/L	1.806	3	17	68635	2	KED
⎢	**Zn**	**66**	**52.407**	ug/L	1.052	2	33	18916	0	KED
⎢	**Zn**	**67**	**53.199**	ug/L	1.702	3	3	3277	2	KED
⎣	**As**	**75**	**50.923**	ug/L	1.316	2	5	9262	1	KED
	Y	**89**		ug/L			199932	212038	2	Standard
	Kr	**83**		ug/L			55	61	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5559	1	KED
⎢	**Cd**	**111**	**51.396**	ug/L	1.370	2	1	10352	2	KED
⎣	**Cd**	**114**	**52.425**	ug/L	0.541	1	1	25650	0	KED
⎡>	**Tb**	**159**		ug/L			457409	485110	3	Standard
⎣	**Pb**	**208**	**52.470**	ug/L	0.920	1	92	2114500	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:39:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30305	1	Standard
	Cl	**37**		ug/L			3318464	3488814	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	399208	3	Standard
|	**Cr**	**52**	**0.043**	ug/L	0.033	77	15747	16054	1	Standard
|	**Cr**	**53**	**0.055**	ug/L	0.020	35	81	181	24	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.002	82	555	585	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20942	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	223	13	12	45	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.018	7708	8	8	32	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	38	28	53	16	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	48	17	35	24	KED
|	**Zn**	**66**	**0.086**	ug/L	0.017	19	33	67	9	KED
|	**Zn**	**67**	**0.205**	ug/L	0.103	50	3	17	40	KED
⌊	**As**	**75**	**0.008**	ug/L	0.002	28	5	6	3	KED
	Y	**89**		ug/L			199932	198604	2	Standard
	Kr	**83**		ug/L			55	46	9	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	216	1	1	114	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	415	1	2	92	KED
⌈>	**Tb**	**159**		ug/L			457409	453333	6	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	9	92	241	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:44:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41751	2	Standard
	Cl	**37**		ug/L			3318464	3685451	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	494551	1	Standard
⎢	**Cr**	**52**	**0.037**	ug/L	0.016	43	15747	19786	0	Standard
⎢	**Cr**	**53**	**0.047**	ug/L	0.002	3	81	205	3	Standard
⎣	**Mn**	**55**	**0.035**	ug/L	0.003	7	555	1667	3	Standard
⎡>	**Ge**	**72**		ug/L			19427	22437	1	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.005	2250	13	15	33	KED
⎢	**Ni**	**62**	**-0.027**	ug/L	0.007	24	8	5	21	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.006	69	28	59	29	KED
⎢	**Cu**	**65**	**0.010**	ug/L	0.004	36	17	34	17	KED
⎢	**Zn**	**66**	**0.103**	ug/L	0.064	62	33	79	30	KED
⎢	**Zn**	**67**	**0.114**	ug/L	0.061	53	3	12	32	KED
⎣	**As**	**75**	**-0.007**	ug/L	0.007	99	5	4	34	KED
	Y	**89**		ug/L			199932	231674	2	Standard
	Kr	**83**		ug/L			55	62	16	Standard
⎡>	**In-1**	**115**		ug/L			5415	6516	1	KED
⎢	**Cd**	**111**	**0.002**	ug/L	0.004	167	1	2	33	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	99	1	1	107	KED
⎡>	**Tb**	**159**		ug/L			457409	519465	4	Standard
⎣	**Pb**	**208**	**0.015**	ug/L	0.001	6	92	762	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:48:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40339	1	Standard
	Cl	**37**		ug/L			3318464	3620868	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	480278	1	Standard
|	**Cr**	**52**	**0.046**	ug/L	0.036	78	15747	19388	3	Standard
|	**Cr**	**53**	**0.036**	ug/L	0.008	22	81	176	9	Standard
⌊	**Mn**	**55**	**0.039**	ug/L	0.002	4	555	1738	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	22088	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.013	471	13	17	69	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.011	103	8	7	25	KED
|	**Cu**	**63**	**0.008**	ug/L	0.004	57	28	54	22	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	54	17	36	26	KED
|	**Zn**	**66**	**0.086**	ug/L	0.018	20	33	71	10	KED
|	**Zn**	**67**	**0.097**	ug/L	0.032	32	3	10	20	KED
⌊	**As**	**75**	**-0.013**	ug/L	0.005	37	5	3	31	KED
	Y	**89**		ug/L			199932	229084	2	Standard
	Kr	**83**		ug/L			55	60	23	Standard
⌈>	**In-1**	**115**		ug/L			5415	6421	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.009	643	1	1	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	100	1	4	48	KED
⌈>	**Tb**	**159**		ug/L			457409	507860	1	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	5	92	683	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:52:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40713	1	Standard
	Cl	**37**		ug/L			3318464	3552995	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	493899	3	Standard
⎢	**Cr**	**52**	**0.050**	ug/L	0.032	64	15747	20010	0	Standard
⎢	**Cr**	**53**	**0.027**	ug/L	0.003	12	81	159	8	Standard
⎣	**Mn**	**55**	**0.037**	ug/L	0.001	1	555	1731	3	Standard
⎡>	**Ge**	**72**		ug/L			19427	22242	1	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.009	694	13	16	53	KED
⎢	**Ni**	**62**	**-0.038**	ug/L	0.014	35	8	3	69	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.001	7	28	60	1	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.004	227	17	22	26	KED
⎢	**Zn**	**66**	**0.050**	ug/L	0.029	57	33	58	20	KED
⎢	**Zn**	**67**	**0.096**	ug/L	0.061	63	3	10	36	KED
⎣	**As**	**75**	**-0.009**	ug/L	0.001	14	5	4	6	KED
	Y	**89**		ug/L			199932	231256	2	Standard
	Kr	**83**		ug/L			55	48	34	Standard
⎡>	**In-1**	**115**		ug/L			5415	6375	2	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.002	81	1	1	34	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	351	1	1	114	KED
⎡>	**Tb**	**159**		ug/L			457409	521797	4	Standard
⎣	**Pb**	**208**	**0.014**	ug/L	0.002	11	92	690	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:57:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32105	0	Standard
	Cl	**37**		ug/L			3318464	3332714	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	417881	0	Standard
⎢	**Cr**	**52**	**-0.060**	ug/L	0.008	13	15747	15111	1	Standard
⎢	**Cr**	**53**	**0.026**	ug/L	0.001	5	81	134	2	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	5	555	296	4	Standard
⎡>	**Ge**	**72**		ug/L			19427	21293	0	KED
⎢	**Ni**	**60**	**-0.004**	ug/L	0.001	30	13	10	10	KED
⎢	**Ni**	**62**	**-0.038**	ug/L	0.007	18	8	3	34	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.002	202	28	27	23	KED
⎢	**Cu**	**65**	**-0.003**	ug/L	0.004	135	17	14	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.019	94	33	29	24	KED
⎢	**Zn**	**67**	**0.063**	ug/L	0.016	25	3	8	13	KED
⎣	**As**	**75**	**-0.009**	ug/L	0.006	69	5	3	33	KED
	Y	**89**		ug/L			199932	196948	2	Standard
	Kr	**83**		ug/L			55	52	33	Standard
⎡>	**In-1**	**115**		ug/L			5415	5849	3	KED
⎢	**Cd**	**111**	**0.004**	ug/L	0.008	205	1	2	57	KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.004	69	1	4	43	KED
⎡>	**Tb**	**159**		ug/L			457409	459690	3	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	30	92	71	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30783	1	Standard
	Cl	**37**		ug/L			3318464	3362908	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	390990	3	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.041	1789	15747	15021	0	Standard
|	**Cr**	**53**	**0.034**	ug/L	0.005	15	81	140	6	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.001	7	555	287	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	21419	1	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.004	104	13	11	28	KED
|	**Ni**	**62**	**-0.030**	ug/L	0.025	85	8	4	89	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	164	28	29	13	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.001	17	17	12	9	KED
|	**Zn**	**66**	**-0.012**	ug/L	0.001	7	33	32	0	KED
|	**Zn**	**67**	**0.033**	ug/L	0.046	136	3	6	45	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.007	86	5	3	34	KED
	Y	**89**		ug/L			199932	190097	1	Standard
	Kr	**83**		ug/L			55	41	14	Standard
⌈>	**In-1**	**115**		ug/L			5415	5938	3	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	114	1	2	33	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	139	1	1	93	KED
⌈>	**Tb**	**159**		ug/L			457409	443814	6	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	17	92	50	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:05:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30788	2	Standard
	Cl	**37**		ug/L			3318464	3338058	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	390633	1	Standard
⎢	**Cr**	**52**	**-0.027**	ug/L	0.014	52	15747	14630	0	Standard
⎢	**Cr**	**53**	**0.027**	ug/L	0.007	26	81	127	10	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	9	555	274	8	Standard
⎡>	**Ge**	**72**		ug/L			19427	20550	2	KED
⎢	**Ni**	**60**	**-0.006**	ug/L	0.005	84	13	8	58	KED
⎢	**Ni**	**62**	**-0.028**	ug/L	0.029	103	8	4	98	KED
⎢	**Cu**	**63**	**0.000**	ug/L	0.002	627	28	31	18	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.003	41	17	9	40	KED
⎢	**Zn**	**66**	**-0.021**	ug/L	0.010	46	33	27	10	KED
⎢	**Zn**	**67**	**0.007**	ug/L	0.018	268	3	4	24	KED
⎣	**As**	**75**	**-0.006**	ug/L	0.005	79	5	4	22	KED
	Y	**89**		ug/L			199932	187294	5	Standard
	Kr	**83**		ug/L			55	36	14	Standard
⎡>	**In-1**	**115**		ug/L			5415	5409	3	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.003	40	1	3	17	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.004	103	1	3	52	KED
⎡>	**Tb**	**159**		ug/L			457409	440470	3	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	12	92	58	9	Standard

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00061
Control Limt: +/- 10.00%
Sequence: SKL0361

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0361-ICV1	Arsenic-75a	50.000	47.3	94.6	ug/L	PA 6020B UCT-KE
SKL0361-CCV1	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SKL0361-CCV2	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SKL0361-CCV3	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SKL0361-CCV4	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SKL0361-CCV5	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SKL0361-CCV6	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SKL0361-CCV7	Arsenic-75a	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
SKL0361-CCV8	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
SKL0361-CCV9	Arsenic-75a	50.000	49.0	98.0	ug/L	PA 6020B UCT-KE
SKL0361-CCVA	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SKL0361-CCVB	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SKL0361-CCVC	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SKL0361-CCVD	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SKL0361-CCVE	Arsenic-75a	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
SKL0361-CCVF	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
SKL0361-CCVG	Arsenic-75a	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
SKL0361-CCVH	Arsenic-75a	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
SKL0361-CCVI	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00010
Control Limt: +/- 10.00%
Sequence: SLA0022

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0022-ICV1	Arsenic-75a	50.000	47.3	94.6	ug/L	PA 6020B UCT-KE
SLA0022-CCV1	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
SLA0022-CCV2	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLA0022-CCV3	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
SLA0022-CCV4	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLA0022-CCV5	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLA0022-CCV6	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLA0022-CCV7	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLA0022-CCV8	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLA0022-CCV9	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
SLA0022-CCVA	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLA0022-CCVB	Arsenic-75a	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLA0022-CCVC	Arsenic-75a	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLA0022-CCVD	Arsenic-75a	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLA0022-CCVE	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SLA0022-CCVF	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLA0022-CCVG	Arsenic-75a	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLA0022-CCVH	Arsenic-75a	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLA0022-CCVI	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLA0022-CCVJ	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLA0022-CCVK	Arsenic-75a	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLA0022-CCVL	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-ICV1	Arsenic-75a	50.000	47.0	94.0	ug/L	PA 6020B UCT-KE
SLA0097-CCV1	Arsenic-75a	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
SLA0097-CCV2	Arsenic-75a	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
SLA0097-CCV3	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
SLA0097-CCV4	Arsenic-75a	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
SLA0097-CCV5	Arsenic-75a	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
SLA0097-CCV6	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLA0097-CCV7	Arsenic-75a	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
SLA0097-CCV8	Arsenic-75a	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLA0097-CCV9	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
SLA0097-CCVA	Arsenic-75a	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
SLA0097-CCVB	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
SLA0097-CCVC	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLA0097-CCVD	Arsenic-75a	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLA0097-CCVE	Arsenic-75a	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
SLA0097-CCVF	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLA0097-CCVG	Arsenic-75a	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLA0097-CCVH	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLA0097-CCVI	Arsenic-75a	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
SLA0097-CCVJ	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLA0097-CCVK	Arsenic-75a	50.000	51.7	103	ug/L	PA 6020B UCT-KE
SLA0097-CCVL	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SLA0097-CCVM	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SKL0361

SDG: 22L0199
Project: AOC4 UR Phase 3
Calibration: FL00061
Date Analyzed: 12/28/22 15:27

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0361-IBL1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SKL0361-ICB1	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SKL0361-CCB1	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SKL0361-IBL2	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SKL0361-IBL3	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SKL0361-CCB2	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SKL0361-IBL4	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SKL0361-CCB3	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SKL0361-IBL5	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SKL0361-CCB4	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SKL0361-CCB5	Arsenic-75a	0.00900	0.0373	0.200	ug/L	
SKL0361-IBL6	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SKL0361-CCB6	Arsenic-75a	0.0130	0.0373	0.200	ug/L	
SKL0361-IBL7	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SKL0361-CCB7	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SKL0361-IBL8	Arsenic-75a	0.0350	0.0373	0.200	ug/L	
SKL0361-CCB8	Arsenic-75a	0.0470	0.0373	0.200	ug/L	
SKL0361-IBL9	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SKL0361-CCB9	Arsenic-75a	0.0150	0.0373	0.200	ug/L	
SKL0361-IBLA	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SKL0361-CCBA	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SKL0361-CCBB	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SKL0361-IBLB	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SKL0361-CCBC	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SKL0361-IBLC	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SKL0361-CCBD	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SKL0361-IBLD	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SKL0361-CCBE	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SKL0361-CCBF	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SKL0361-IBLE	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SKL0361-IBLF	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SKL0361-CCBG	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SKL0361-IBLG	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SKL0361-IBLH	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SKL0361-CCBH	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SKL0361

SDG: 22L0199
Project: AOC4 UR Phase 3
Calibration: FL00061
Date Analyzed: 12/29/22 07:17

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0361-IBLI	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SKL0361-IBLJ	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SKL0361-CCBI	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0022

SDG: 22L0199
Project: AOC4 UR Phase 3
Calibration: GA00010
Date Analyzed: 01/03/23 14:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0022-IBL1	Arsenic-75a	-0.0170	0.0373	0.200	ug/L	
SLA0022-ICB1	Arsenic-75a	-0.0170	0.0373	0.200	ug/L	
SLA0022-CCB1	Arsenic-75a	-0.0190	0.0373	0.200	ug/L	
SLA0022-IBL2	Arsenic-75a	-0.0140	0.0373	0.200	ug/L	
SLA0022-CCB2	Arsenic-75a	-0.0150	0.0373	0.200	ug/L	
SLA0022-IBL3	Arsenic-75a	-0.0240	0.0373	0.200	ug/L	
SLA0022-CCB3	Arsenic-75a	-0.0140	0.0373	0.200	ug/L	
SLA0022-IBL4	Arsenic-75a	-0.0230	0.0373	0.200	ug/L	
SLA0022-CCB4	Arsenic-75a	-0.0140	0.0373	0.200	ug/L	
SLA0022-IBL5	Arsenic-75a	-0.0260	0.0373	0.200	ug/L	
SLA0022-CCB5	Arsenic-75a	-0.0120	0.0373	0.200	ug/L	
SLA0022-IBL6	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLA0022-CCB6	Arsenic-75a	-0.0120	0.0373	0.200	ug/L	
SLA0022-IBL7	Arsenic-75a	-0.0170	0.0373	0.200	ug/L	
SLA0022-CCB7	Arsenic-75a	-0.0160	0.0373	0.200	ug/L	
SLA0022-CCB8	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLA0022-IBL8	Arsenic-75a	0.0110	0.0373	0.200	ug/L	
SLA0022-CCB9	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLA0022-IBL9	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLA0022-CCBA	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLA0022-IBLA	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0022-CCBB	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLA0022-IBLB	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLA0022-CCBC	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLA0022-CCBD	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLA0022-IBLC	Arsenic-75a	-0.0200	0.0373	0.200	ug/L	
SLA0022-CCBE	Arsenic-75a	-0.0130	0.0373	0.200	ug/L	
SLA0022-IBLD	Arsenic-75a	-0.0150	0.0373	0.200	ug/L	
SLA0022-CCBF	Arsenic-75a	-0.0200	0.0373	0.200	ug/L	
SLA0022-IBLE	Arsenic-75a	-0.0190	0.0373	0.200	ug/L	
SLA0022-CCBG	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLA0022-CCBH	Arsenic-75a	-0.0110	0.0373	0.200	ug/L	
SLA0022-IBLF	Arsenic-75a	-0.00800	0.0373	0.200	ug/L	
SLA0022-CCBI	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLA0022-IBLG	Arsenic-75a	-0.00900	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0022

SDG: 22L0199
Project: AOC4 UR Phase 3
Calibration: GA00010
Date Analyzed: 01/04/23 07:04

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0022-IBLH	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0022-CCBJ	Arsenic-75a	0.0180	0.0373	0.200	ug/L	
SLA0022-IBLI	Arsenic-75a	-0.0250	0.0373	0.200	ug/L	
SLA0022-CCBK	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0022-IBLJ	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLA0022-CCBL	Arsenic-75a	0.0130	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0199
Project: AOC4 UR Phase 3
Calibration: GA00024
Date Analyzed: 01/09/23 14:38

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-IBL1	Arsenic-75a	0.0170	0.0373	0.200	ug/L	
SLA0097-ICB1	Arsenic-75a	0.00900	0.0373	0.200	ug/L	
SLA0097-CCB1	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLA0097-IBL2	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLA0097-CCB2	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0097-IBL3	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLA0097-CCB3	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-IBL4	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLA0097-CCB4	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLA0097-IBL5	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-CCB5	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLA0097-CCB6	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLA0097-CCB7	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLA0097-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLA0097-CCB9	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLA0097-CCBA	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0097-IBL6	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0097-IBL7	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-CCBB	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0097-CCBC	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLA0097-CCBD	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLA0097-CCBE	Arsenic-75a	0.0120	0.0373	0.200	ug/L	
SLA0097-CCBF	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLA0097-CCBG	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLA0097-CCBH	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-CCBI	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLA0097-IBL8	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0097-CCBJ	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLA0097-IBL9	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLA0097-CCBK	Arsenic-75a	0.0160	0.0373	0.200	ug/L	
SLA0097-CCBL	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0097-CCBM	Arsenic-75a	0.00800	0.0373	0.200	ug/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0361
Instrument: ICPMS1
Calibration: FL00061

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SKL0361-CAL1	XDT_m1221228-006	NA	12/28/22 14:51
CAL 1 - LOW CHECK	SKL0361-CAL2	XDT_m1221228-007	NA	12/28/22 14:56
CAL 2	SKL0361-CAL3	XDT_m1221228-008	NA	12/28/22 15:01
CAL 3	SKL0361-CAL4	XDT_m1221228-009	NA	12/28/22 15:06
CAL 4	SKL0361-CAL5	XDT_m1221228-010	NA	12/28/22 15:12
CAL 5	SKL0361-CAL6	XDT_m1221228-011	NA	12/28/22 15:19
RINSE	SKL0361-IBL1	XDT_m1221228-012	NA	12/28/22 15:27
Initial Cal Check	SKL0361-ICV1	XDT_m1221228-014	NA	12/28/22 15:42
Initial Cal Blank	SKL0361-ICB1	XDT_m1221228-015	NA	12/28/22 15:50
Calibration Check	SKL0361-CCV1	XDT_m1221228-016	NA	12/28/22 15:58
Calibration Blank	SKL0361-CCB1	XDT_m1221228-017	NA	12/28/22 16:06
Instrument RL Check	SKL0361-CRL1	XDT_m1221228-018	NA	12/28/22 16:13
Interference Check A	SKL0361-IFA1	XDT_m1221228-019	NA	12/28/22 16:20
Interference Check B	SKL0361-IFB1	XDT_m1221228-020	NA	12/28/22 16:25
LR200	SKL0361-HCV1	XDT_m1221228-021	NA	12/28/22 16:31
LR300	SKL0361-HCV2	XDT_m1221228-022	NA	12/28/22 16:36
Instrument Blank	SKL0361-IBL2	XDT_m1221228-023	NA	12/28/22 16:44
Instrument Blank	SKL0361-IBL3	XDT_m1221228-024	NA	12/28/22 16:51
Calibration Check	SKL0361-CCV2	XDT_m1221228-026	NA	12/28/22 17:04
Calibration Blank	SKL0361-CCB2	XDT_m1221228-027	NA	12/28/22 17:12
Instrument Blank	SKL0361-IBL4	XDT_m1221228-037	NA	12/28/22 18:07
Calibration Check	SKL0361-CCV3	XDT_m1221228-038	NA	12/28/22 18:12
Calibration Blank	SKL0361-CCB3	XDT_m1221228-039	NA	12/28/22 18:21
Instrument Blank	SKL0361-IBL5	XDT_m1221228-049	NA	12/28/22 19:21
Calibration Check	SKL0361-CCV4	XDT_m1221228-050	NA	12/28/22 19:26
Calibration Blank	SKL0361-CCB4	XDT_m1221228-051	NA	12/28/22 19:34
Calibration Check	SKL0361-CCV5	XDT_m1221228-053	NA	12/28/22 19:48
Calibration Blank	SKL0361-CCB5	XDT_m1221228-054	NA	12/28/22 19:57
Blank	BKL0529-BLK1	XDT_m1221228-055	Solid	12/28/22 20:06

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0361

SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ICPMS1
Calibration: FL00061

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LCS	BKL0529-BS1	XDT_m1221228-056	Solid	12/28/22 20:11
Instrument Blank	SKL0361-IBL6	XDT_m1221228-064	NA	12/28/22 20:49
Calibration Check	SKL0361-CCV6	XDT_m1221228-065	NA	12/28/22 20:54
Calibration Blank	SKL0361-CCB6	XDT_m1221228-066	NA	12/28/22 21:01
ZZZZZ	22K0403-01RE1	XDT_m1221228-067	Water	12/28/22 21:08
ZZZZZ	22K0403-01RE1	XDT_m1221228-067	Water	12/28/22 21:08
ZZZZZ	22K0403-02RE1	XDT_m1221228-068	Water	12/28/22 21:16
ZZZZZ	22K0403-03RE1	XDT_m1221228-069	Water	12/28/22 21:22
ZZZZZ	22K0403-04RE1	XDT_m1221228-070	Water	12/28/22 21:28
ZZZZZ	22K0403-05RE1	XDT_m1221228-071	Water	12/28/22 21:35
ZZZZZ	22K0403-05RE1	XDT_m1221228-071	Water	12/28/22 21:35
ZZZZZ	22K0403-06RE1	XDT_m1221228-072	Water	12/28/22 21:41
ZZZZZ	22K0403-06RE1	XDT_m1221228-072	Water	12/28/22 21:41
ZZZZZ	22K0403-07RE1	XDT_m1221228-073	Water	12/28/22 21:47
ZZZZZ	22K0403-07RE1	XDT_m1221228-073	Water	12/28/22 21:47
ZZZZZ	22K0403-08RE1	XDT_m1221228-074	Water	12/28/22 21:53
ZZZZZ	22K0403-09RE1	XDT_m1221228-075	Water	12/28/22 22:01
ZZZZZ	22K0403-09RE1	XDT_m1221228-075	Water	12/28/22 22:01
Instrument Blank	SKL0361-IBL7	XDT_m1221228-076	NA	12/28/22 22:07
Calibration Check	SKL0361-CCV7	XDT_m1221228-077	NA	12/28/22 22:12
Calibration Blank	SKL0361-CCB7	XDT_m1221228-078	NA	12/28/22 22:19
Instrument Blank	SKL0361-IBL8	XDT_m1221228-088	NA	12/28/22 23:06
Calibration Check	SKL0361-CCV8	XDT_m1221228-089	NA	12/28/22 23:11
Calibration Blank	SKL0361-CCB8	XDT_m1221228-090	NA	12/28/22 23:18
LDW22-IT789K	22L0199-17	XDT_m1221228-092	Solid	12/28/22 23:28
LDW22-IT789L	22L0199-18	XDT_m1221228-093	Solid	12/28/22 23:32
LDW22-IT790I	22L0199-19	XDT_m1221228-094	Solid	12/28/22 23:37
LDW22-IT790J	22L0199-20	XDT_m1221228-095	Solid	12/28/22 23:42
LDW22-IT790L	22L0199-22	XDT_m1221228-097	Solid	12/28/22 23:51

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0361
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ICPMS1
Calibration: FL00061

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW22-IT790M	22L0199-23	XDT_m1221228-098	Solid	12/28/22 23:56
LDW22-SC787A	22L0199-36	XDT_m1221228-099	Solid	12/29/22 00:00
Instrument Blank	SKL0361-IBL9	XDT_m1221228-100	NA	12/29/22 00:05
Calibration Check	SKL0361-CCV9	XDT_m1221228-101	NA	12/29/22 00:10
Calibration Blank	SKL0361-CCB9	XDT_m1221228-102	NA	12/29/22 00:17
LDW22-SC787B	22L0199-37	XDT_m1221228-103	Solid	12/29/22 00:22
LDW22-SC787C	22L0199-38	XDT_m1221228-104	Solid	12/29/22 00:27
LDW22-SC787D	22L0199-39	XDT_m1221228-105	Solid	12/29/22 00:31
LDW22-SC787E	22L0199-40	XDT_m1221228-106	Solid	12/29/22 00:36
LDW22-SC787F	22L0199-41	XDT_m1221228-107	Solid	12/29/22 00:41
LDW22-SC787G	22L0199-42	XDT_m1221228-108	Solid	12/29/22 00:45
Instrument Blank	SKL0361-IBLA	XDT_m1221228-112	NA	12/29/22 01:05
Calibration Check	SKL0361-CCVA	XDT_m1221228-113	NA	12/29/22 01:09
Calibration Blank	SKL0361-CCBA	XDT_m1221228-114	NA	12/29/22 01:17
Calibration Check	SKL0361-CCVB	XDT_m1221228-116	NA	12/29/22 01:26
Calibration Blank	SKL0361-CCBB	XDT_m1221228-117	NA	12/29/22 01:33
ZZZZZ	22L0152-02	XDT_m1221228-123	Water	12/29/22 02:02
Instrument Blank	SKL0361-IBLB	XDT_m1221228-127	NA	12/29/22 02:23
Calibration Check	SKL0361-CCVC	XDT_m1221228-128	NA	12/29/22 02:27
Calibration Blank	SKL0361-CCBC	XDT_m1221228-129	NA	12/29/22 02:35
Instrument Blank	SKL0361-IBLC	XDT_m1221228-139	NA	12/29/22 03:24
Calibration Check	SKL0361-CCVD	XDT_m1221228-140	NA	12/29/22 03:28
Calibration Blank	SKL0361-CCBD	XDT_m1221228-141	NA	12/29/22 03:36
Instrument Blank	SKL0361-IBLD	XDT_m1221228-151	NA	12/29/22 04:24
Calibration Check	SKL0361-CCVE	XDT_m1221228-152	NA	12/29/22 04:29
Calibration Blank	SKL0361-CCBE	XDT_m1221228-153	NA	12/29/22 04:36
Calibration Check	SKL0361-CCVF	XDT_m1221228-155	NA	12/29/22 04:46
Calibration Blank	SKL0361-CCBF	XDT_m1221228-156	NA	12/29/22 04:53
Instrument Blank	SKL0361-IBLE	XDT_m1221228-163	NA	12/29/22 05:26

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0361	Instrument:	ICPMS1
		Calibration:	FL00061

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SKL0361-IBLF	XDT_m1221228-166	NA	12/29/22 05:40
Calibration Check	SKL0361-CCVG	XDT_m1221228-167	NA	12/29/22 05:45
Calibration Blank	SKL0361-CCBG	XDT_m1221228-168	NA	12/29/22 05:52
ZZZZZ	22L0146-04	XDT_m1221228-169	Water	12/29/22 05:57
ZZZZZ	22L0146-04	XDT_m1221228-169	Water	12/29/22 05:57
ZZZZZ	22L0146-04	XDT_m1221228-169	Water	12/29/22 05:57
ZZZZZ	22L0146-05	XDT_m1221228-170	Water	12/29/22 06:02
ZZZZZ	22L0146-05	XDT_m1221228-170	Water	12/29/22 06:02
ZZZZZ	22L0146-05	XDT_m1221228-170	Water	12/29/22 06:02
Instrument Blank	SKL0361-IBLG	XDT_m1221228-171	NA	12/29/22 06:07
Instrument Blank	SKL0361-IBLH	XDT_m1221228-178	NA	12/29/22 06:40
Calibration Check	SKL0361-CCVH	XDT_m1221228-179	NA	12/29/22 06:44
Calibration Blank	SKL0361-CCBH	XDT_m1221228-180	NA	12/29/22 06:52
ZZZZZ	22L0146-03	XDT_m1221228-181	Water	12/29/22 06:56
ZZZZZ	22L0146-03	XDT_m1221228-181	Water	12/29/22 06:56
ZZZZZ	22L0146-03	XDT_m1221228-181	Water	12/29/22 06:56
ZZZZZ	22L0146-03	XDT_m1221228-181	Water	12/29/22 06:56
ZZZZZ	22L0146-03	XDT_m1221228-181	Water	12/29/22 06:56
ZZZZZ	22L0146-03	XDT_m1221228-181	Water	12/29/22 06:56
ZZZZZ	22L0146-03	XDT_m1221228-181	Water	12/29/22 06:56
Instrument Blank	SKL0361-IBLI	XDT_m1221228-185	NA	12/29/22 07:17
ZZZZZ	22L0314-02	XDT_m1221228-186	Water	12/29/22 07:21
ZZZZZ	22L0314-01	XDT_m1221228-187	Water	12/29/22 07:27
Instrument Blank	SKL0361-IBLJ	XDT_m1221228-188	NA	12/29/22 07:31
Calibration Check	SKL0361-CCVI	XDT_m1221228-189	NA	12/29/22 07:36
Calibration Blank	SKL0361-CCBI	XDT_m1221228-190	NA	12/29/22 07:43

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0022
Instrument: ICPMS2
Calibration: GA00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLA0022-CAL1	XDT_m2230103-006	NA	01/03/23 14:18
CAL 1 - LOW CHECK	SLA0022-CAL2	XDT_m2230103-007	NA	01/03/23 14:22
CAL 2	SLA0022-CAL3	XDT_m2230103-008	NA	01/03/23 14:27
CAL 3	SLA0022-CAL4	XDT_m2230103-009	NA	01/03/23 14:31
CAL 4	SLA0022-CAL5	XDT_m2230103-010	NA	01/03/23 14:36
CAL 5	SLA0022-CAL6	XDT_m2230103-011	NA	01/03/23 14:43
RINSE	SLA0022-IBL1	XDT_m2230103-012	NA	01/03/23 14:50
Initial Cal Check	SLA0022-ICV1	XDT_m2230103-014	NA	01/03/23 15:06
Initial Cal Blank	SLA0022-ICB1	XDT_m2230103-015	NA	01/03/23 15:13
Calibration Check	SLA0022-CCV1	XDT_m2230103-016	NA	01/03/23 15:18
Calibration Blank	SLA0022-CCB1	XDT_m2230103-017	NA	01/03/23 15:25
Instrument RL Check	SLA0022-CRL1	XDT_m2230103-018	NA	01/03/23 15:32
Interference Check A	SLA0022-IFA1	XDT_m2230103-019	NA	01/03/23 15:37
Interference Check B	SLA0022-IFB1	XDT_m2230103-020	NA	01/03/23 15:41
LR200	SLA0022-HCV1	XDT_m2230103-021	NA	01/03/23 15:45
LR300	SLA0022-HCV2	XDT_m2230103-022	NA	01/03/23 15:50
Instrument Blank	SLA0022-IBL2	XDT_m2230103-023	NA	01/03/23 15:57
Calibration Check	SLA0022-CCV2	XDT_m2230103-024	NA	01/03/23 16:03
Calibration Blank	SLA0022-CCB2	XDT_m2230103-025	NA	01/03/23 16:10
ZZZZZ	BKL0718-BLK1	XDT_m2230103-028	Water	01/03/23 16:25
ZZZZZ	BKL0718-BS1	XDT_m2230103-029	Water	01/03/23 16:30
Instrument Blank	SLA0022-IBL3	XDT_m2230103-035	NA	01/03/23 17:01
Calibration Check	SLA0022-CCV3	XDT_m2230103-036	NA	01/03/23 17:06
Calibration Blank	SLA0022-CCB3	XDT_m2230103-037	NA	01/03/23 17:17
Instrument Blank	SLA0022-IBL4	XDT_m2230103-047	NA	01/03/23 18:23
Calibration Check	SLA0022-CCV4	XDT_m2230103-048	NA	01/03/23 18:28
Calibration Blank	SLA0022-CCB4	XDT_m2230103-049	NA	01/03/23 18:35
Instrument Blank	SLA0022-IBL5	XDT_m2230103-059	NA	01/03/23 19:25
Calibration Check	SLA0022-CCV5	XDT_m2230103-060	NA	01/03/23 19:30

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0022
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ICPMS2
Calibration: GA00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLA0022-CCB5	XDT_m2230103-061	NA	01/03/23 19:40
LDW22-IT789F	22L0199-11	XDT_m2230103-067	Solid	01/03/23 20:09
LDW22-IT789F	BKL0529-DUP1	XDT_m2230103-068	Solid	01/03/23 20:14
LDW22-IT789F	BKL0529-MS1	XDT_m2230103-069	Solid	01/03/23 20:18
LDW22-IT789F	BKL0529-MSD1	XDT_m2230103-070	Solid	01/03/23 20:22
Instrument Blank	SLA0022-IBL6	XDT_m2230103-071	NA	01/03/23 20:27
Calibration Check	SLA0022-CCV6	XDT_m2230103-072	NA	01/03/23 20:31
Calibration Blank	SLA0022-CCB6	XDT_m2230103-073	NA	01/03/23 20:38
Instrument Blank	SLA0022-IBL7	XDT_m2230103-083	NA	01/03/23 21:28
Calibration Check	SLA0022-CCV7	XDT_m2230103-084	NA	01/03/23 21:33
Calibration Blank	SLA0022-CCB7	XDT_m2230103-085	NA	01/03/23 21:41
Calibration Check	SLA0022-CCV8	XDT_m2230103-087	NA	01/03/23 21:54
Calibration Blank	SLA0022-CCB8	XDT_m2230103-088	NA	01/03/23 22:01
LDW22-IT790K	22L0199-21	XDT_m2230103-092	Solid	01/03/23 22:24
LDW22-IT789J	22L0199-16	XDT_m2230103-093	Solid	01/03/23 22:28
LDW22-IT789G	22L0199-12	XDT_m2230103-094	Solid	01/03/23 22:33
LDW22-IT789I	22L0199-14	XDT_m2230103-095	Solid	01/03/23 22:37
LDW22-IT789I-FD	22L0199-15	XDT_m2230103-096	Solid	01/03/23 22:41
LDW22-IT789H	22L0199-13	XDT_m2230103-097	Solid	01/03/23 22:46
Instrument Blank	SLA0022-IBL8	XDT_m2230103-098	NA	01/03/23 22:56
Calibration Check	SLA0022-CCV9	XDT_m2230103-099	NA	01/03/23 23:01
Calibration Blank	SLA0022-CCB9	XDT_m2230103-100	NA	01/03/23 23:12
Instrument Blank	SLA0022-IBL9	XDT_m2230103-110	NA	01/04/23 00:00
Calibration Check	SLA0022-CCVA	XDT_m2230103-111	NA	01/04/23 00:04
Calibration Blank	SLA0022-CCBA	XDT_m2230103-112	NA	01/04/23 00:12
Instrument Blank	SLA0022-IBLA	XDT_m2230103-122	NA	01/04/23 00:55
Calibration Check	SLA0022-CCVB	XDT_m2230103-123	NA	01/04/23 01:00
Calibration Blank	SLA0022-CCBB	XDT_m2230103-124	NA	01/04/23 01:07
Instrument Blank	SLA0022-IBLB	XDT_m2230103-134	NA	01/04/23 01:52

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0022
Instrument: ICPMS2
Calibration: GA00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0022-CCVC	XDT_m2230103-135	NA	01/04/23 01:57
Calibration Blank	SLA0022-CCBC	XDT_m2230103-136	NA	01/04/23 02:04
Calibration Check	SLA0022-CCVD	XDT_m2230103-138	NA	01/04/23 02:13
Calibration Blank	SLA0022-CCBD	XDT_m2230103-139	NA	01/04/23 02:20
Instrument Blank	SLA0022-IBLC	XDT_m2230103-149	NA	01/04/23 03:04
Calibration Check	SLA0022-CCVE	XDT_m2230103-150	NA	01/04/23 03:08
Calibration Blank	SLA0022-CCBE	XDT_m2230103-151	NA	01/04/23 03:15
Instrument Blank	SLA0022-IBLD	XDT_m2230103-161	NA	01/04/23 03:59
Calibration Check	SLA0022-CCVF	XDT_m2230103-162	NA	01/04/23 04:04
Calibration Blank	SLA0022-CCBF	XDT_m2230103-163	NA	01/04/23 04:11
Instrument Blank	SLA0022-IBLE	XDT_m2230103-173	NA	01/04/23 04:55
Calibration Check	SLA0022-CCVG	XDT_m2230103-174	NA	01/04/23 04:59
Calibration Blank	SLA0022-CCBG	XDT_m2230103-175	NA	01/04/23 05:06
Calibration Check	SLA0022-CCVH	XDT_m2230103-177	NA	01/04/23 05:15
Calibration Blank	SLA0022-CCBH	XDT_m2230103-178	NA	01/04/23 05:22
Instrument Blank	SLA0022-IBLF	XDT_m2230103-188	NA	01/04/23 06:06
Calibration Check	SLA0022-CCVI	XDT_m2230103-189	NA	01/04/23 06:10
Calibration Blank	SLA0022-CCBI	XDT_m2230103-190	NA	01/04/23 06:18
Instrument Blank	SLA0022-IBLG	XDT_m2230103-194	NA	01/04/23 06:37
Instrument Blank	SLA0022-IBLH	XDT_m2230103-200	NA	01/04/23 07:04
Calibration Check	SLA0022-CCVJ	XDT_m2230103-201	NA	01/04/23 07:08
Calibration Blank	SLA0022-CCBJ	XDT_m2230103-202	NA	01/04/23 07:16
ZZZZZ	22L0416-84	XDT_m2230103-205	Water	01/04/23 07:29
ZZZZZ	22L0416-83	XDT_m2230103-206	Water	01/04/23 07:33
ZZZZZ	BKL0718-DUP1	XDT_m2230103-207	Water	01/04/23 07:37
ZZZZZ	BKL0718-MS1	XDT_m2230103-208	Water	01/04/23 07:42
Instrument Blank	SLA0022-IBLI	XDT_m2230103-212	NA	01/04/23 08:00
Calibration Check	SLA0022-CCVK	XDT_m2230103-213	NA	01/04/23 08:04
Calibration Blank	SLA0022-CCBK	XDT_m2230103-214	NA	01/04/23 08:11

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0022	Instrument:	ICPMS2
		Calibration:	GA00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLA0022-IBLJ	XDT_m2230103-224	NA	01/04/23 08:57
Calibration Check	SLA0022-CCVL	XDT_m2230103-225	NA	01/04/23 09:01
Calibration Blank	SLA0022-CCBL	XDT_m2230103-226	NA	01/04/23 09:08

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLA0097-CAL1	XDT_m2230109-006	NA	01/09/23 14:07
CAL 1 - LOW CHECK	SLA0097-CAL2	XDT_m2230109-007	NA	01/09/23 14:11
CAL 2	SLA0097-CAL3	XDT_m2230109-008	NA	01/09/23 14:15
CAL 3	SLA0097-CAL4	XDT_m2230109-009	NA	01/09/23 14:20
CAL 4	SLA0097-CAL5	XDT_m2230109-010	NA	01/09/23 14:25
CAL 5	SLA0097-CAL6	XDT_m2230109-011	NA	01/09/23 14:31
RINSE	SLA0097-IBL1	XDT_m2230109-012	NA	01/09/23 14:38
Initial Cal Check	SLA0097-ICV1	XDT_m2230109-014	NA	01/09/23 14:45
Initial Cal Blank	SLA0097-ICB1	XDT_m2230109-015	NA	01/09/23 14:53
Calibration Check	SLA0097-CCV1	XDT_m2230109-016	NA	01/09/23 14:57
Calibration Blank	SLA0097-CCB1	XDT_m2230109-017	NA	01/09/23 15:04
Instrument RL Check	SLA0097-CRL1	XDT_m2230109-018	NA	01/09/23 15:09
Interference Check A	SLA0097-IFA1	XDT_m2230109-019	NA	01/09/23 15:16
Interference Check B	SLA0097-IFB1	XDT_m2230109-020	NA	01/09/23 15:20
LR200	SLA0097-HCV1	XDT_m2230109-021	NA	01/09/23 15:25
LR300	SLA0097-HCV2	XDT_m2230109-022	NA	01/09/23 15:30
Instrument Blank	SLA0097-IBL2	XDT_m2230109-023	NA	01/09/23 15:37
Calibration Check	SLA0097-CCV2	XDT_m2230109-024	NA	01/09/23 15:43
Calibration Blank	SLA0097-CCB2	XDT_m2230109-025	NA	01/09/23 15:50
Blank	BKL0608-BLK1	XDT_m2230109-026	Solid	01/09/23 15:59
LCS	BKL0608-BS1	XDT_m2230109-027	Solid	01/09/23 16:03
Instrument Blank	SLA0097-IBL3	XDT_m2230109-035	NA	01/09/23 16:46
Calibration Check	SLA0097-CCV3	XDT_m2230109-036	NA	01/09/23 16:51
Calibration Blank	SLA0097-CCB3	XDT_m2230109-037	NA	01/09/23 16:59
LDW22-SC787H	22L0199-43	XDT_m2230109-045	Solid	01/09/23 17:40
LDW22-SC787I	22L0199-44	XDT_m2230109-046	Solid	01/09/23 17:45
Instrument Blank	SLA0097-IBL4	XDT_m2230109-047	NA	01/09/23 17:49
Calibration Check	SLA0097-CCV4	XDT_m2230109-048	NA	01/09/23 17:54
Calibration Blank	SLA0097-CCB4	XDT_m2230109-049	NA	01/09/23 18:01

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLA0157-BLK1	XDT_m2230109-050	Water	01/09/23 18:07
ZZZZZ	BLA0157-BS1	XDT_m2230109-051	Water	01/09/23 18:11
LDW22-SC787J	22L0199-45	XDT_m2230109-056	Solid	01/09/23 18:36
LDW22-SC787K	22L0199-46	XDT_m2230109-057	Solid	01/09/23 18:41
LDW22-SC787L	22L0199-47	XDT_m2230109-058	Solid	01/09/23 18:45
Instrument Blank	SLA0097-IBL5	XDT_m2230109-059	NA	01/09/23 18:49
Calibration Check	SLA0097-CCV5	XDT_m2230109-060	NA	01/09/23 18:54
Calibration Blank	SLA0097-CCB5	XDT_m2230109-061	NA	01/09/23 19:01
ZZZZZ	22L0329-08	XDT_m2230109-065	Solid	01/09/23 19:21
ZZZZZ	22L0329-09	XDT_m2230109-066	Solid	01/09/23 19:25
ZZZZZ	22L0329-10	XDT_m2230109-067	Solid	01/09/23 19:29
ZZZZZ	22L0329-11	XDT_m2230109-068	Solid	01/09/23 19:34
ZZZZZ	22L0329-12	XDT_m2230109-069	Solid	01/09/23 19:38
ZZZZZ	22L0329-13	XDT_m2230109-070	Solid	01/09/23 19:43
ZZZZZ	22L0329-14	XDT_m2230109-071	Solid	01/09/23 19:47
Calibration Check	SLA0097-CCV6	XDT_m2230109-072	NA	01/09/23 19:54
Calibration Blank	SLA0097-CCB6	XDT_m2230109-073	NA	01/09/23 20:01
Calibration Check	SLA0097-CCV7	XDT_m2230109-075	NA	01/09/23 20:13
Calibration Blank	SLA0097-CCB7	XDT_m2230109-076	NA	01/09/23 20:20
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
Calibration Check	SLA0097-CCV8	XDT_m2230109-087	NA	01/09/23 21:17
Calibration Blank	SLA0097-CCB8	XDT_m2230109-088	NA	01/09/23 21:24
ZZZZZ	22I0052-25	XDT_m2230109-090	Solid	01/09/23 21:35
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
Calibration Check	SLA0097-CCV9	XDT_m2230109-099	NA	01/09/23 22:21
Calibration Blank	SLA0097-CCB9	XDT_m2230109-100	NA	01/09/23 22:29
ZZZZZ	22I0188-02	XDT_m2230109-102	Solid	01/09/23 22:37
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
Calibration Check	SLA0097-CCVA	XDT_m2230109-111	NA	01/09/23 23:20
Calibration Blank	SLA0097-CCBA	XDT_m2230109-112	NA	01/09/23 23:27
Instrument Blank	SLA0097-IBL6	XDT_m2230109-114	NA	01/09/23 23:36
ZZZZZ	22I0188-20	XDT_m2230109-116	Solid	01/09/23 23:44
Instrument Blank	SLA0097-IBL7	XDT_m2230109-122	NA	01/10/23 00:11
Calibration Check	SLA0097-CCVB	XDT_m2230109-123	NA	01/10/23 00:15

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLA0097-CCBB	XDT_m2230109-124	NA	01/10/23 00:22
ZZZZZ	22J0097-31	XDT_m2230109-126	Solid	01/10/23 00:31
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
Calibration Check	SLA0097-CCVC	XDT_m2230109-135	NA	01/10/23 01:13
Calibration Blank	SLA0097-CCBC	XDT_m2230109-136	NA	01/10/23 01:20
Calibration Check	SLA0097-CCVD	XDT_m2230109-138	NA	01/10/23 01:29
Calibration Blank	SLA0097-CCBD	XDT_m2230109-139	NA	01/10/23 01:36
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0097
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0097
SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
Calibration Check	SLA0097-CCVE	XDT_m2230109-150	NA	01/10/23 02:27
Calibration Blank	SLA0097-CCBE	XDT_m2230109-151	NA	01/10/23 02:34
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-16	XDT_m2230109-154	Solid	01/10/23 02:47
ZZZZZ	22H0529-16	XDT_m2230109-154	Solid	01/10/23 02:47
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
Calibration Check	SLA0097-CCVF	XDT_m2230109-162	NA	01/10/23 03:26
Calibration Blank	SLA0097-CCBF	XDT_m2230109-163	NA	01/10/23 03:33
ZZZZZ	22H0529-30	XDT_m2230109-164	Solid	01/10/23 03:37
ZZZZZ	22H0529-30	XDT_m2230109-164	Solid	01/10/23 03:37
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
Calibration Check	SLA0097-CCVG	XDT_m2230109-174	NA	01/10/23 04:24
Calibration Blank	SLA0097-CCBG	XDT_m2230109-175	NA	01/10/23 04:31
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
Calibration Check	SLA0097-CCVH	XDT_m2230109-186	NA	01/10/23 05:23
Calibration Blank	SLA0097-CCBH	XDT_m2230109-187	NA	01/10/23 05:30
Calibration Check	SLA0097-CCVI	XDT_m2230109-189	NA	01/10/23 05:39
Calibration Blank	SLA0097-CCBI	XDT_m2230109-190	NA	01/10/23 05:46
ZZZZZ	22L0612-01	XDT_m2230109-197	Water	01/10/23 06:17
ZZZZZ	BLA0157-DUP1	XDT_m2230109-198	Water	01/10/23 06:22
ZZZZZ	BLA0157-MS1	XDT_m2230109-199	Water	01/10/23 06:28
Instrument Blank	SLA0097-IBL8	XDT_m2230109-200	NA	01/10/23 06:32
Calibration Check	SLA0097-CCVJ	XDT_m2230109-201	NA	01/10/23 06:36
Calibration Blank	SLA0097-CCBJ	XDT_m2230109-202	NA	01/10/23 06:43
Instrument Blank	SLA0097-IBL9	XDT_m2230109-212	NA	01/10/23 07:28
Calibration Check	SLA0097-CCVK	XDT_m2230109-213	NA	01/10/23 07:32
Calibration Blank	SLA0097-CCBK	XDT_m2230109-214	NA	01/10/23 07:39
Calibration Check	SLA0097-CCVL	XDT_m2230109-225	NA	01/10/23 08:32
Calibration Blank	SLA0097-CCBL	XDT_m2230109-226	NA	01/10/23 08:39
Calibration Check	SLA0097-CCVM	XDT_m2230109-237	NA	01/10/23 09:32
Calibration Blank	SLA0097-CCBM	XDT_m2230109-238	NA	01/10/23 09:39

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00061
Sequence: SKL0361
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SKL0361-IFA1	Arsenic-75a	0	0.0310		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00061
Sequence: SKL0361
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SKL0361-IFB1	Arsenic-75a	20.000	19.382	96.9	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00010
Sequence: SLA0022
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0022-IFA1	Arsenic-75a	0	0.0390		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00010
Sequence: SLA0022
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0022-IFB1	Arsenic-75a	20.000	19.579	97.9	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0097-IFA1	Arsenic-75a	0	0.0300		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0097-IFB1	Arsenic-75a	20.000	19.326	96.6	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00061
Sequence: SKL0361
Lab Sample ID: SKL0361-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.193	96.5	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00010
Sequence: SLA0022
Lab Sample ID: SLA0022-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.160	80.0	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Lab Sample ID: SLA0097-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.208	104	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00061
Laboratory ID: SKL0361-HCV1
Sequence: SKL0361
Standard ID: K011379

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	197	-1.6	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00061
Laboratory ID: SKL0361-HCV2
Sequence: SKL0361
Standard ID: K011540

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	282	-6.0	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00010
Laboratory ID: SLA0022-HCV1
Sequence: SLA0022
Standard ID: K011379

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	198	-1.0	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00010
Laboratory ID: SLA0022-HCV2
Sequence: SLA0022
Standard ID: K011540

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	292	-2.6	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00024
Laboratory ID: SLA0097-HCV1
Sequence: SLA0097
Standard ID: L000232

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	196	-2.1	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00024
Laboratory ID: SLA0097-HCV2
Sequence: SLA0097
Standard ID: L000233

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	290	-3.3	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT789F 22L0199-11	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 20:09	26	180	
LDW22-IT789G 22L0199-12	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 22:33	27	180	
LDW22-IT789H 22L0199-13	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 22:46	27	180	
LDW22-IT789I 22L0199-14	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 22:37	27	180	
LDW22-IT789I-FD 22L0199-15	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 22:41	27	180	
LDW22-IT789J 22L0199-16	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 22:28	27	180	
LDW22-IT789K 22L0199-17	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	12/28/22 23:28	21	180	
LDW22-IT789L 22L0199-18	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	12/28/22 23:32	21	180	
LDW22-IT790I 22L0199-19	12/08/22 09:20	12/08/22 17:18	12/21/22 09:20	13	180	12/28/22 23:37	21	180	
LDW22-IT790J 22L0199-20	12/08/22 09:20	12/08/22 17:18	12/21/22 09:20	13	180	12/28/22 23:42	21	180	
LDW22-IT790K 22L0199-21	12/08/22 09:20	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 22:24	27	180	
LDW22-IT790L 22L0199-22	12/08/22 09:20	12/08/22 17:18	12/21/22 09:20	13	180	12/28/22 23:51	21	180	
LDW22-IT790M 22L0199-23	12/08/22 09:20	12/08/22 17:18	12/21/22 09:20	13	180	12/28/22 23:56	21	180	
LDW22-SC787A 22L0199-36	12/08/22 11:27	12/08/22 17:18	12/21/22 09:20	12	180	12/29/22 00:00	21	180	
LDW22-SC787B 22L0199-37	12/08/22 11:27	12/08/22 17:18	12/21/22 09:20	12	180	12/29/22 00:22	21	180	
LDW22-SC787C 22L0199-38	12/08/22 11:27	12/08/22 17:18	12/21/22 09:20	12	180	12/29/22 00:27	21	180	
LDW22-SC787D 22L0199-39	12/08/22 11:27	12/08/22 17:18	12/21/22 09:20	12	180	12/29/22 00:31	21	180	
LDW22-SC787E 22L0199-40	12/08/22 11:27	12/08/22 17:18	12/21/22 09:20	12	180	12/29/22 00:36	21	180	
LDW22-SC787F 22L0199-41	12/08/22 11:27	12/08/22 17:18	12/21/22 09:20	12	180	12/29/22 00:41	21	180	
LDW22-SC787G 22L0199-42	12/08/22 11:27	12/08/22 17:18	12/21/22 09:20	12	180	12/29/22 00:45	21	180	
LDW22-SC787H 22L0199-43	12/08/22 11:27	12/08/22 17:18	12/27/22 10:02	18	180	01/09/23 17:40	32	180	
LDW22-SC787I 22L0199-44	12/08/22 11:27	12/08/22 17:18	12/27/22 10:02	18	180	01/09/23 17:45	32	180	

HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC787J 22L0199-45	12/08/22 11:27	12/08/22 17:18	12/27/22 10:02	18	180	01/09/23 18:36	32	180	
LDW22-SC787K 22L0199-46	12/08/22 11:27	12/08/22 17:18	12/27/22 10:02	18	180	01/09/23 18:41	32	180	
LDW22-SC787L 22L0199-47	12/08/22 11:27	12/08/22 17:18	12/27/22 10:02	18	180	01/09/23 18:45	32	180	
Duplicate BKL0529-DUP1	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 20:14	26	180	
Matrix Spike BKL0529-MS1	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 20:18	27	180	
Matrix Spike Dup BKL0529-MSD1	12/08/22 08:17	12/08/22 17:18	12/21/22 09:20	13	180	01/03/23 20:22	27	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Arsenic-75a	0.04	0.20	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: ICPMS2

Analyte	MDL	RL	Units
Arsenic-75a	0.04	0.20	mg/kg

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 Cu(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4, HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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Christiansburg, VA 24073 USA
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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn	0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	< 0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310			
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300			
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444			
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310			
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610			
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310			
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310			
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129			
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000			
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310			
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310			
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600			
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910			
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310			
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

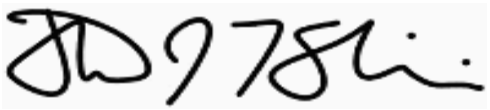
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

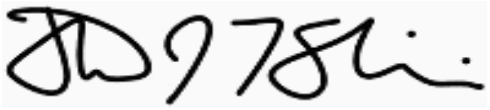
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

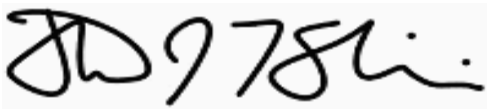
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$
Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.
Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10051 ± 52 µg/mL** ICP Assay NIST SRM 3151 Lot Number: 160729
Assay Method #2	**10051 ± 19 µg/mL** Volhard NIST SRM 999c Lot Number: 999c
Assay Method #3	**10049 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn	0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	< 0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110			
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900			
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100			
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110			
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110			
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110			
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210			
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000			
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110			
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110			
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410			
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<				
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000			
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110			
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 H2V10O284-

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4, HF, H3PO4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na2CO3 / KNO3); Oxides (V2O3 - use HCl, V2O4 - use HCl or HNO3, V2O5 - use concentrated acids); Ores (Na2CO3 / KNO3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V2O5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

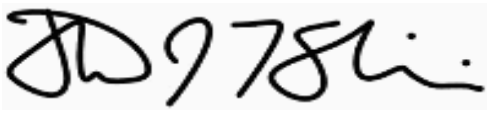
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

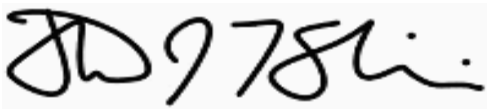
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9987 ± 24 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **10004 ± 84 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 140813

Assay Method #3 **10007 ± 45 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

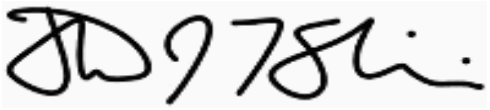
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2
Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

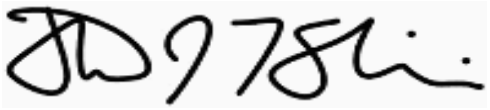
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

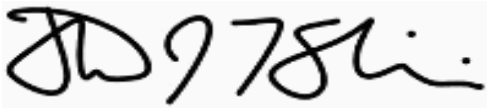
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.000270	M	Eu	< 0.000270	M	Na	< 0.011000	M	Se	< 0.009300	M	Zn	0.002358			
M	Al	< 0.011000	M	Fe	0.003222	M	Nb	< 0.000270	M	Si	< 0.160000	M	Zr	< 0.001100			
M	As	< 0.002400	M	Ga	< 0.000270	M	Nd	< 0.000270	M	Sm	< 0.000270						
M	Au	< 0.000270	M	Gd	< 0.000270	M	Ni	< 0.020000	M	Sn	< 0.011000						
M	B	< 0.000270	M	Ge	< 0.000800	M	Os	< 0.001900	M	Sr	< 0.000270						
M	Ba	< 0.003800	M	Hf	< 0.000270	i	P	<	M	Ta	< 0.000270						
M	Be	< 0.000270	M	Hg	< 0.000540	M	Pb	< 0.002200	M	Tb	< 0.000270						
M	Bi	< 0.000270	M	Ho	< 0.000270	M	Pd	< 0.000540	M	Te	< 0.003800						
M	Ca	< 0.140000	M	In	< 0.000270	M	Pr	< 0.000270	M	Th	0.000129						
M	Cd	< 0.000270	M	Ir	< 0.000270	M	Pt	< 0.000270	M	Ti	< 0.002700						
M	Ce	< 0.000540	O	K	< 0.250000	M	Rb	< 0.000800	M	Tl	< 0.000270						
M	Co	< 0.000800	M	La	0.000117	M	Re	< 0.064000	M	Tm	< 0.000270						
M	Cr	0.000943	M	Li	< 0.003000	M	Rh	< 0.000270	s	U	<						
M	Cs	0.000106	M	Lu	< 0.000270	M	Ru	< 0.000540	M	V	< 0.000540						
M	Cu	< 0.001100	M	Mg	< 0.003000	i	S	<	M	W	< 0.000540						
M	Dy	< 0.000270	M	Mn	< 0.006900	M	Sb	< 0.000270	M	Y	< 0.000270						
M	Er	< 0.000270	M	Mo	< 0.006400	M	Sc	< 0.000540	M	Yb	< 0.000270						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO_2^{2+}(uranyl)
Chemical Compatibility - Soluble in HCl and HNO_3. Avoid H_3PO_4. H_2SO_4 and HF matrices should not be a problem depending upon [U]. Although the UO_2^{2+} ion is distinctly basic, any U^{+4} will precipitate in basic media. UO_2^{2+}salts are generally soluble in water and UO_2^{2+} is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF_4 and UF_6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO_3); Oxide (Soluble in HNO_3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO_3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H_2SO_4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

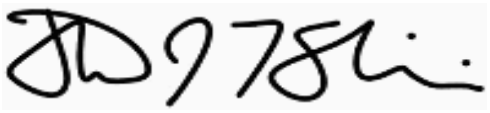
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

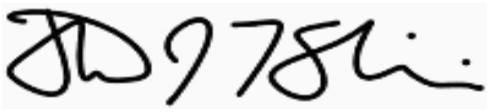
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

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u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

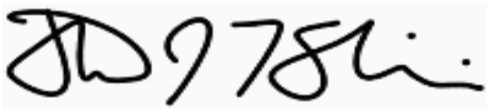
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-01 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-038
% Solids:	53.61	Preparation:	Plumb 1981	Analyzed:	12/20/22 07:46
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5244 g Wet / 0.5244 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.81	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-02 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-048
% Solids:	56.84	Preparation:	Plumb 1981	Analyzed:	12/20/22 08:17
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5055 g Wet / 0.5055 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.59	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-03 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-076
% Solids:	55.81	Preparation:	Plumb 1981	Analyzed:	12/20/22 09:48
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5601 g Wet / 0.5601 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.00	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-04 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-087
% Solids:	57.79	Preparation:	Plumb 1981	Analyzed:	12/20/22 10:18
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5227 g Wet / 0.5227 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.17	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-05 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-101
% Solids:	72.62	Preparation:	Plumb 1981	Analyzed:	12/20/22 10:49
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.516 g Wet / 0.516 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.41	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-06 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-111
% Solids:	75.38	Preparation:	Plumb 1981	Analyzed:	12/20/22 11:19
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5489 g Wet / 0.5489 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.31	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-07 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-124
% Solids:	65.83	Preparation:	Plumb 1981	Analyzed:	12/20/22 11:49
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5045 g Wet / 0.5045 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.97	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-08 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-133
% Solids:	62.52	Preparation:	Plumb 1981	Analyzed:	12/20/22 12:20
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5404 g Wet / 0.5404 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.72	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC762I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-09 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-144
% Solids:	65.16	Preparation:	Plumb 1981	Analyzed:	12/20/22 12:50
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5198 g Wet / 0.5198 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.70	1	0.02	0.02	

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EPA 9060A m

LDW22-SC762J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-10 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-204
% Solids:	64.17	Preparation:	Plumb 1981	Analyzed:	12/20/22 15:54
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5191 g Wet / 0.5191 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.64	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT789F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-11 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-216
% Solids:	88.08	Preparation:	Plumb 1981	Analyzed:	12/20/22 16:24
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.6125 g Wet / 0.6125 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.03	1	0.02	0.02	

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EPA 9060A m

LDW22-IT789G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-12 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-227
% Solids:	89.32	Preparation:	Plumb 1981	Analyzed:	12/20/22 16:55
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5051 g Wet / 0.5051 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.02	1	0.02	0.02	

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EPA 9060A m

LDW22-IT789H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-13 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-236
% Solids:	84.85	Preparation:	Plumb 1981	Analyzed:	12/20/22 17:25
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5117 g Wet / 0.5117 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.04	1	0.02	0.02	

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EPA 9060A m

LDW22-IT789I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-14 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-249
% Solids:	85.38	Preparation:	Plumb 1981	Analyzed:	12/20/22 17:55
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5457 g Wet / 0.5457 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.02	1	0.02	0.02	U

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT789I-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-15 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 07:12	File ID:	CubeData_12272022@1508-259
% Solids:	83.32	Preparation:	Plumb 1981	Analyzed:	12/20/22 18:26
Batch:	BKL0463	Sequence:	SKL0217	Initial/Final:	0.5612 g Wet / 0.5612 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.02	1	0.02	0.02	U

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT789J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-16 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-031
% Solids:	85.35	Preparation:	Plumb 1981	Analyzed:	12/21/22 13:29
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.516 g Wet / 0.516 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.06	1	0.02	0.02	

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EPA 9060A m

LDW22-IT789K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-17 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-042
% Solids:	85.88	Preparation:	Plumb 1981	Analyzed:	12/21/22 15:00
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5013 g Wet / 0.5013 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.04	1	0.02	0.02	

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Form I
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EPA 9060A m

LDW22-IT789L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-18 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-048
% Solids:	79.12	Preparation:	Plumb 1981	Analyzed:	12/21/22 15:30
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5721 g Wet / 0.5721 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.02	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT790I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-19 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-053
% Solids:	84.58	Preparation:	Plumb 1981	Analyzed:	12/21/22 16:01
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5121 g Wet / 0.5121 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.02	1	0.02	0.02	U

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT790J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-20 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-058
% Solids:	81.85	Preparation:	Plumb 1981	Analyzed:	12/21/22 16:31
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.6424 g Wet / 0.6424 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.02	1	0.02	0.02	U

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Form I
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EPA 9060A m

LDW22-IT790K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-21 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-064
% Solids:	87.91	Preparation:	Plumb 1981	Analyzed:	12/21/22 17:01
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.545 g Wet / 0.545 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.03	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT790L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-22 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-072
% Solids:	75.70	Preparation:	Plumb 1981	Analyzed:	12/21/22 17:32
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5257 g Wet / 0.5257 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.31	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT790M

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-23 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-079
% Solids:	69.17	Preparation:	Plumb 1981	Analyzed:	12/21/22 18:02
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5065 g Wet / 0.5065 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.04	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC802A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-24 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-097
% Solids:	50.61	Preparation:	Plumb 1981	Analyzed:	12/21/22 19:33
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5179 g Wet / 0.5179 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.85	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC802B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-25 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-103
% Solids:	49.80	Preparation:	Plumb 1981	Analyzed:	12/21/22 20:03
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5058 g Wet / 0.5058 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.97	1	0.02	0.02	

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LDW22-SC802C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-26 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-111
% Solids:	54.33	Preparation:	Plumb 1981	Analyzed:	12/21/22 20:33
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5269 g Wet / 0.5269 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.36	1	0.02	0.02	

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LDW22-SC802D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-27 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-116
% Solids:	53.11	Preparation:	Plumb 1981	Analyzed:	12/21/22 21:04
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5061 g Wet / 0.5061 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.11	1	0.02	0.02	

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LDW22-SC802E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-28 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-124
% Solids:	53.62	Preparation:	Plumb 1981	Analyzed:	12/21/22 21:34
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5635 g Wet / 0.5635 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.42	1	0.02	0.02	

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LDW22-SC802F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-29 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-128
% Solids:	58.19	Preparation:	Plumb 1981	Analyzed:	12/21/22 22:04
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.534 g Wet / 0.534 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.92	1	0.02	0.02	

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LDW22-SC802G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-30 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-135
% Solids:	59.10	Preparation:	Plumb 1981	Analyzed:	12/21/22 22:35
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5136 g Wet / 0.5136 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.66	1	0.02	0.02	

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LDW22-SC802H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-31 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-137
% Solids:	69.99	Preparation:	Plumb 1981	Analyzed:	12/21/22 23:05
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5457 g Wet / 0.5457 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.13	1	0.02	0.02	

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LDW22-SC802I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-32 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-138
% Solids:	71.28	Preparation:	Plumb 1981	Analyzed:	12/21/22 23:35
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.51 g Wet / 0.51 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.24	1	0.02	0.02	

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LDW22-SC802J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-33 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-139
% Solids:	78.43	Preparation:	Plumb 1981	Analyzed:	12/22/22 00:05
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5012 g Wet / 0.5012 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.30	1	0.02	0.02	

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LDW22-SC802K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-34 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-142
% Solids:	88.51	Preparation:	Plumb 1981	Analyzed:	12/22/22 01:36
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.608 g Wet / 0.608 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.08	1	0.02	0.02	

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LDW22-SC802C-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-35 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/19/22 09:00	File ID:	CubeData_12272022@1519-143
% Solids:	52.93	Preparation:	Plumb 1981	Analyzed:	12/22/22 02:07
Batch:	BKL0464	Sequence:	SKL0276	Initial/Final:	0.5646 g Wet / 0.5646 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.35	1	0.02	0.02	

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LDW22-SC787A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-36 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-148
% Solids:	56.99	Preparation:	Plumb 1981	Analyzed:	12/22/22 04:39
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5202 g Wet / 0.5202 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.21	1	0.02	0.02	

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LDW22-SC787B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-37 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-151
% Solids:	52.03	Preparation:	Plumb 1981	Analyzed:	12/22/22 06:10
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5037 g Wet / 0.5037 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.73	1	0.02	0.02	

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LDW22-SC787C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-38 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-154
% Solids:	55.75	Preparation:	Plumb 1981	Analyzed:	12/22/22 07:41
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5306 g Wet / 0.5306 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.47	1	0.02	0.02	

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LDW22-SC787D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-39 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-155
% Solids:	58.30	Preparation:	Plumb 1981	Analyzed:	12/22/22 08:11
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5259 g Wet / 0.5259 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.48	1	0.02	0.02	

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LDW22-SC787E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-40 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-156
% Solids:	56.13	Preparation:	Plumb 1981	Analyzed:	12/22/22 08:42
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.513 g Wet / 0.513 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.87	1	0.02	0.02	

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LDW22-SC787F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-41 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-157
% Solids:	53.73	Preparation:	Plumb 1981	Analyzed:	12/22/22 09:12
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5219 g Wet / 0.5219 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.05	1	0.02	0.02	

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LDW22-SC787G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-42 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-158
% Solids:	55.12	Preparation:	Plumb 1981	Analyzed:	12/22/22 09:43
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5257 g Wet / 0.5257 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.49	1	0.02	0.02	

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LDW22-SC787H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-43 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-159
% Solids:	60.97	Preparation:	Plumb 1981	Analyzed:	12/22/22 10:13
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5408 g Wet / 0.5408 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.77	1	0.02	0.02	

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LDW22-SC787I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-44 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-160
% Solids:	63.87	Preparation:	Plumb 1981	Analyzed:	12/22/22 10:44
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5088 g Wet / 0.5088 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.38	1	0.02	0.02	

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LDW22-SC787J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-45 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-165
% Solids:	60.26	Preparation:	Plumb 1981	Analyzed:	12/22/22 13:47
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5101 g Wet / 0.5101 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.39	1	0.02	0.02	

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LDW22-SC787K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-46 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-166
% Solids:	78.03	Preparation:	Plumb 1981	Analyzed:	12/22/22 14:17
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.6025 g Wet / 0.6025 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.17	1	0.02	0.02	

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LDW22-SC787L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-47 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-167
% Solids:	73.45	Preparation:	Plumb 1981	Analyzed:	12/22/22 14:47
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.3024 g Wet / 0.3024 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.49	1	0.02	0.02	

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LDW22-SC761A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-48 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-168
% Solids:	54.28	Preparation:	Plumb 1981	Analyzed:	12/22/22 15:17
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5074 g Wet / 0.5074 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.67	1	0.02	0.02	

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LDW22-SC761B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-49 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-169
% Solids:	56.10	Preparation:	Plumb 1981	Analyzed:	12/22/22 15:48
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5371 g Wet / 0.5371 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.79	1	0.02	0.02	

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LDW22-SC761C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-50 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-170
% Solids:	56.43	Preparation:	Plumb 1981	Analyzed:	12/22/22 16:18
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5275 g Wet / 0.5275 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.94	1	0.02	0.02	

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LDW22-SC761D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-51 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-171
% Solids:	60.91	Preparation:	Plumb 1981	Analyzed:	12/22/22 16:49
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5503 g Wet / 0.5503 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.71	1	0.02	0.02	

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LDW22-SC761D-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-52 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-172
% Solids:	59.32	Preparation:	Plumb 1981	Analyzed:	12/22/22 17:19
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5389 g Wet / 0.5389 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.55	1	0.02	0.02	

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LDW22-SC761E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-53 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-173
% Solids:	74.98	Preparation:	Plumb 1981	Analyzed:	12/22/22 17:49
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5056 g Wet / 0.5056 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.42	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC761F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-54 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/19/22 11:20	File ID:	CubeData_12272022@1519-174
% Solids:	65.14	Preparation:	Plumb 1981	Analyzed:	12/22/22 18:20
Batch:	BKL0471	Sequence:	SKL0276	Initial/Final:	0.5177 g Wet / 0.5177 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.09	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC761G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-55 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-181
% Solids:	69.49	Preparation:	Plumb 1981	Analyzed:	12/22/22 21:53
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5037 g Wet / 0.5037 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.97	1	0.02	0.02	

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EPA 9060A m

LDW22-SC761H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-56 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-184
% Solids:	64.38	Preparation:	Plumb 1981	Analyzed:	12/22/22 23:24
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5961 g Wet / 0.5961 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.53	1	0.02	0.02	

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Form I
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EPA 9060A m

LDW22-SC761I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-57 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-185
% Solids:	65.01	Preparation:	Plumb 1981	Analyzed:	12/22/22 23:55
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5212 g Wet / 0.5212 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.05	1	0.02	0.02	

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EPA 9060A m

LDW22-SC761J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-58 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-186
% Solids:	68.24	Preparation:	Plumb 1981	Analyzed:	12/23/22 00:25
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5048 g Wet / 0.5048 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.59	1	0.02	0.02	

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EPA 9060A m

LDW22-SC761K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-59 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-189
% Solids:	72.93	Preparation:	Plumb 1981	Analyzed:	12/23/22 01:56
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5239 g Wet / 0.5239 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.91	1	0.02	0.02	

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EPA 9060A m

LDW22-SC761L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-60 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-190
% Solids:	74.72	Preparation:	Plumb 1981	Analyzed:	12/23/22 02:27
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5209 g Wet / 0.5209 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.29	1	0.02	0.02	

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EPA 9060A m

LDW22-SC758B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-61 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-191
% Solids:	56.31	Preparation:	Plumb 1981	Analyzed:	12/23/22 02:57
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5126 g Wet / 0.5126 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.05	1	0.02	0.02	

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EPA 9060A m

LDW22-SC758C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-62 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-192
% Solids:	56.20	Preparation:	Plumb 1981	Analyzed:	12/23/22 03:27
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5137 g Wet / 0.5137 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.06	1	0.02	0.02	

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EPA 9060A m

LDW22-SC758D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-63 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-193
% Solids:	56.62	Preparation:	Plumb 1981	Analyzed:	12/23/22 03:58
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5599 g Wet / 0.5599 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.76	1	0.02	0.02	

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EPA 9060A m

LDW22-SC758E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-64 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-194
% Solids:	62.10	Preparation:	Plumb 1981	Analyzed:	12/23/22 04:28
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5012 g Wet / 0.5012 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.59	1	0.02	0.02	

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EPA 9060A m

LDW22-SC758F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-65 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-195
% Solids:	57.19	Preparation:	Plumb 1981	Analyzed:	12/23/22 04:59
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5325 g Wet / 0.5325 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.14	1	0.02	0.02	

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EPA 9060A m

LDW22-SC758G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-66 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-196
% Solids:	62.93	Preparation:	Plumb 1981	Analyzed:	12/23/22 05:30
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5052 g Wet / 0.5052 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.06	1	0.02	0.02	

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EPA 9060A m

LDW22-SC758H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-67 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-197
% Solids:	61.11	Preparation:	Plumb 1981	Analyzed:	12/23/22 06:00
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5158 g Wet / 0.5158 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.77	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC758I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-68 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-198
% Solids:	62.47	Preparation:	Plumb 1981	Analyzed:	12/23/22 06:31
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5467 g Wet / 0.5467 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.99	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC758J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-69 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-001
% Solids:	62.89	Preparation:	Plumb 1981	Analyzed:	12/23/22 08:02
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5155 g Wet / 0.5155 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.79	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC758K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-70 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-005
% Solids:	65.23	Preparation:	Plumb 1981	Analyzed:	12/23/22 08:32
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5203 g Wet / 0.5203 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.29	1	0.02	0.02	

Analytical Resources, LLC
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PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0463 Batch Matrix: Solid
Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC762A	22L0199-01	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762B	22L0199-02	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762C	22L0199-03	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762D	22L0199-04	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762E	22L0199-05	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762F	22L0199-06	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762G	22L0199-07	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762H	22L0199-08	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762I	22L0199-09	eData_12272022@1508-	12/19/22 07:12	
LDW22-SC762J	22L0199-10	eData_12272022@1508-	12/19/22 07:12	
LDW22-IT789F	22L0199-11	eData_12272022@1508-	12/19/22 07:12	
LDW22-IT789G	22L0199-12	eData_12272022@1508-	12/19/22 07:12	
LDW22-IT789H	22L0199-13	eData_12272022@1508-	12/19/22 07:12	
LDW22-IT789I	22L0199-14	eData_12272022@1508-	12/19/22 07:12	
LDW22-IT789I-FD	22L0199-15	eData_12272022@1508-	12/19/22 07:12	
Blank	BKL0463-BLK1	eData_12272022@1508-	12/19/22 07:12	
LCS	BKL0463-BS1	eData_12272022@1508-	12/19/22 07:12	
MRL Check	BKL0463-MRL1	eData_12272022@1508-	12/19/22 07:12	
Reference	BKL0463-SRM1	eData_12272022@1508-	12/19/22 07:12	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0464 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT789J	22L0199-16	eData_12272022@1519-	12/19/22 09:00	
LDW22-IT789K	22L0199-17	eData_12272022@1519-	12/19/22 09:00	
LDW22-IT789L	22L0199-18	eData_12272022@1519-	12/19/22 09:00	
LDW22-IT790I	22L0199-19	eData_12272022@1519-	12/19/22 09:00	
LDW22-IT790J	22L0199-20	eData_12272022@1519-	12/19/22 09:00	
LDW22-IT790K	22L0199-21	eData_12272022@1519-	12/19/22 09:00	
LDW22-IT790L	22L0199-22	eData_12272022@1519-	12/19/22 09:00	
LDW22-IT790M	22L0199-23	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802A	22L0199-24	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802B	22L0199-25	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802C	22L0199-26	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802D	22L0199-27	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802E	22L0199-28	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802F	22L0199-29	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802G	22L0199-30	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802H	22L0199-31	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802I	22L0199-32	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802J	22L0199-33	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802K	22L0199-34	eData_12272022@1519-	12/19/22 09:00	
LDW22-SC802C-FD	22L0199-35	eData_12272022@1519-	12/19/22 09:00	
Blank	BKL0464-BLK1	eData_12272022@1508-	12/19/22 09:00	
LCS	BKL0464-BS1	eData_12272022@1508-	12/19/22 09:00	
LDW22-IT789J	BKL0464-DUP1	eData_12272022@1519-	12/19/22 09:00	
MRL Check	BKL0464-MRL1	eData_12272022@1508-	12/19/22 09:00	
LDW22-IT789J	BKL0464-MS1	eData_12272022@1519-	12/19/22 09:00	
Reference	BKL0464-SRM1	eData_12272022@1508-	12/19/22 09:00	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0471 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC787A	22L0199-36	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787B	22L0199-37	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787C	22L0199-38	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787D	22L0199-39	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787E	22L0199-40	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787F	22L0199-41	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787G	22L0199-42	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787H	22L0199-43	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787I	22L0199-44	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787J	22L0199-45	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787K	22L0199-46	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787L	22L0199-47	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC761A	22L0199-48	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC761B	22L0199-49	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC761C	22L0199-50	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC761D	22L0199-51	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC761D-FD	22L0199-52	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC761E	22L0199-53	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC761F	22L0199-54	eData_12272022@1519-	12/19/22 11:20	
Blank	BKL0471-BLK1	eData_12272022@1519-	12/19/22 11:20	
LCS	BKL0471-BS1	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787A	BKL0471-DUP1	eData_12272022@1519-	12/19/22 11:20	
MRL Check	BKL0471-MRL1	eData_12272022@1519-	12/19/22 11:20	
LDW22-SC787A	BKL0471-MS1	eData_12272022@1519-	12/19/22 11:20	
Reference	BKL0471-SRM1	eData_12272022@1519-	12/19/22 11:20	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0501 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC761G	22L0199-55	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC761H	22L0199-56	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC761I	22L0199-57	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC761J	22L0199-58	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC761K	22L0199-59	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC761L	22L0199-60	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758B	22L0199-61	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758C	22L0199-62	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758D	22L0199-63	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758E	22L0199-64	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758F	22L0199-65	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758G	22L0199-66	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758H	22L0199-67	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758I	22L0199-68	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758J	22L0199-69	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC758K	22L0199-70	eData_12272022@1519-	12/21/22 10:10	
Blank	BKL0501-BLK1	eData_12272022@1519-	12/21/22 10:10	
LCS	BKL0501-BS1	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC761G	BKL0501-DUP1	eData_12272022@1519-	12/21/22 10:10	
MRL Check	BKL0501-MRL1	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC761G	BKL0501-MS1	eData_12272022@1519-	12/21/22 10:10	
Reference	BKL0501-SRM1	eData_12272022@1519-	12/21/22 10:10	

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0463
Laboratory ID: BKL0463-BLK1
Prepared: 12/19/22 07:12
Matrix: Solid
Preparation: Plumb 1981
Analyzed: 12/20/22 01:41
Sequence: SKL0217
Calibration: FD00070
Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0464
Laboratory ID: BKL0464-BLK1
Prepared: 12/19/22 09:00
Matrix: Solid
Preparation: Plumb 1981
Analyzed: 12/20/22 19:27
Sequence: SKL0217
Calibration: FD00070
Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0471
Laboratory ID: BKL0471-BLK1
Prepared: 12/19/22 11:20
Matrix: Solid
Preparation: Plumb 1981
Analyzed: 12/22/22 03:08
Sequence: SKL0276
Calibration: FD00070
Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0501
Laboratory ID: BKL0501-BLK1
Prepared: 12/21/22 10:10
Matrix: Solid
Preparation: Plumb 1981
Analyzed: 12/22/22 20:21
Sequence: SKL0276
Calibration: FD00070
Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/20/22 02:11
Batch:	BKL0463	Laboratory ID:	BKL0463-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.022 g / 0.022 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.5		100	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/20/22 19:58
Batch:	BKL0464	Laboratory ID:	BKL0464-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0225 g / 0.0225 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	43.9		98.8	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/22/22 03:38
Batch:	BKL0471	Laboratory ID:	BKL0471-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0214 g / 0.0214 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.0		98.9	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/22/22 20:52
Batch:	BKL0501	Laboratory ID:	BKL0501-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0226 g / 0.0226 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.8		101	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0464-DUP1
Batch: BKL0464
Lab Source ID: 22L0199-16
Preparation: Plumb 1981
Initial/Final: 0.5603 g / 0.5603 g
Source Sample Name: LDW22-IT789J
% Solids: 85.35

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	0.06	ND		

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0471-DUP1
Batch: BKL0471
Lab Source ID: 22L0199-36
Preparation: Plumb 1981
Initial/Final: 0.5149 g / 0.5149 g
Source Sample Name: LDW22-SC787A
% Solids: 56.99

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	1.21	1.20	0.436	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0501-DUP1
Batch: BKL0501
Lab Source ID: 22L0199-55
Preparation: Plumb 1981
Initial/Final: 0.5201 g / 0.5201 g
Source Sample Name: LDW22-SC761G
% Solids: 69.49

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	0.97	0.95	1.94	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/21/22 14:30
Batch:	BKL0464	Laboratory ID:	BKL0464-MS1
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.5068 g / 0.5068 g	Source Sample:	LDW22-IT789J

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	0.904	0.06		0.91		93.8	75 - 125

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/22/22 05:40
Batch:	BKL0471	Laboratory ID:	BKL0471-MS1
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.5111 g / 0.5111 g	Source Sample:	LDW22-SC787A

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.37	1.21		2.67		106	75 - 125

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/22/22 22:54
Batch:	BKL0501	Laboratory ID:	BKL0501-MS1
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.5392 g / 0.5392 g	Source Sample:	LDW22-SC761G

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.03	0.97		2.08		107	75 - 125

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKD0371
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SKD0371-CAL1	CubeData_04272022@1136-001	NA	04/26/22 12:30
Cal Standard	SKD0371-CAL2	CubeData_04272022@1136-002	NA	04/26/22 13:00
Cal Standard	SKD0371-CAL3	CubeData_04272022@1136-003	NA	04/26/22 13:30
Cal Standard	SKD0371-CAL4	CubeData_04272022@1136-004	NA	04/26/22 14:00
Cal Standard	SKD0371-CAL5	CubeData_04272022@1136-005	NA	04/26/22 14:30
Cal Standard	SKD0371-CAL6	CubeData_04272022@1136-006	NA	04/26/22 15:00
Cal Standard	SKD0371-CAL7	CubeData_04272022@1136-007	NA	04/26/22 15:30
Cal Standard	SKD0371-CAL8	CubeData_04272022@1136-008	NA	04/26/22 16:00
Cal Standard	SKD0371-CAL9	CubeData_04272022@1136-009	NA	04/26/22 16:30
Cal Standard	SKD0371-CALA	CubeData_04272022@1136-010	NA	04/26/22 17:00
Cal Standard	SKD0371-CALB	CubeData_04272022@1136-011	NA	04/26/22 17:30
Cal Standard	SKD0371-CALC	CubeData_04272022@1136-012	NA	04/26/22 18:00
Cal Standard	SKD0371-CALD	CubeData_04272022@1136-013	NA	04/26/22 18:30
Cal Standard	SKD0371-CALE	CubeData_04272022@1136-014	NA	04/26/22 19:00
Cal Standard	SKD0371-CALF	CubeData_04272022@1136-015	NA	04/26/22 19:31
Cal Standard	SKD0371-CALG	CubeData_04272022@1136-016	NA	04/26/22 20:01
Cal Standard	SKD0371-CALH	CubeData_04272022@1136-017	NA	04/26/22 20:31
Cal Standard	SKD0371-CALI	CubeData_04272022@1136-018	NA	04/26/22 21:01
Cal Standard	SKD0371-CALJ	CubeData_04272022@1136-019	NA	04/26/22 21:31
Cal Standard	SKD0371-CALK	CubeData_04272022@1136-020	NA	04/26/22 22:01
Initial Cal Check	SKD0371-ICV1	CubeData_04272022@1136-027	NA	04/27/22 02:03
Initial Cal Blank	SKD0371-ICB1	CubeData_04272022@1136-028	NA	04/27/22 02:33
Cal Standard	SKD0371-CALL	CubeData_04272022@1136-021	NA	04/27/22 11:08
Cal Standard	SKD0371-CALM	CubeData_04272022@1136-022	NA	04/27/22 11:08
Cal Standard	SKD0371-CALN	CubeData_04272022@1136-023	NA	04/27/22 11:09
Cal Standard	SKD0371-CALO	CubeData_04272022@1136-024	NA	04/27/22 11:09

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0217	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0217-ICV1	CubeData_12272022@1508-037	NA	12/16/22 13:12
Initial Cal Blank	SKL0217-ICB1	CubeData_12272022@1508-049	NA	12/16/22 13:43
Calibration Check	SKL0217-CCV1	CubeData_12272022@1508-163	NA	12/16/22 19:17
Calibration Blank	SKL0217-CCB1	CubeData_12272022@1508-173	NA	12/16/22 19:47
Calibration Check	SKL0217-CCV2	CubeData_12272022@1508-294	NA	12/17/22 01:23
Calibration Blank	SKL0217-CCB2	CubeData_12272022@1508-304	NA	12/17/22 01:53
Calibration Check	SKL0217-CCV3	CubeData_12272022@1508-380	NA	12/17/22 07:30
Calibration Blank	SKL0217-CCB3	CubeData_12272022@1508-388	NA	12/17/22 08:01
Calibration Check	SKL0217-CCV4	CubeData_12272022@1508-452	NA	12/17/22 13:38
Calibration Blank	SKL0217-CCB4	CubeData_12272022@1508-461	NA	12/17/22 14:08
Calibration Check	SKL0217-CCV5	CubeData_12272022@1508-525	NA	12/17/22 19:44
Calibration Blank	SKL0217-CCB5	CubeData_12272022@1508-530	NA	12/17/22 20:14
Calibration Check	SKL0217-CCV6	CubeData_12272022@1508-607	NA	12/18/22 01:51
Calibration Blank	SKL0217-CCB6	CubeData_12272022@1508-615	NA	12/18/22 02:21
Calibration Check	SKL0217-CCV7	CubeData_12272022@1508-683	NA	12/18/22 07:58
Calibration Blank	SKL0217-CCB7	CubeData_12272022@1508-688	NA	12/18/22 08:28
Calibration Check	SKL0217-CCV8	CubeData_12272022@1508-112	NA	12/18/22 14:03
Calibration Blank	SKL0217-CCB8	CubeData_12272022@1508-123	NA	12/18/22 14:34
Calibration Check	SKL0217-CCV9	CubeData_12272022@1508-238	NA	12/18/22 20:09
Calibration Blank	SKL0217-CCB9	CubeData_12272022@1508-248	NA	12/18/22 20:40
Calibration Check	SKL0217-CCVA	CubeData_12272022@1508-351	NA	12/19/22 02:16
Calibration Blank	SKL0217-CCBA	CubeData_12272022@1508-358	NA	12/19/22 02:47
Calibration Check	SKL0217-CCVB	CubeData_12272022@1508-428	NA	12/19/22 08:23
Calibration Blank	SKL0217-CCBB	CubeData_12272022@1508-433	NA	12/19/22 08:54
Calibration Check	SKL0217-CCVC	CubeData_12272022@1508-494	NA	12/19/22 14:29
Calibration Blank	SKL0217-CCBC	CubeData_12272022@1508-499	NA	12/19/22 15:00
Calibration Check	SKL0217-CCVD	CubeData_12272022@1508-574	NA	12/19/22 20:35
Calibration Blank	SKL0217-CCBD	CubeData_12272022@1508-581	NA	12/19/22 21:05
MRL Check	BKL0463-MRL1	CubeData_12272022@1508-631	Solid	12/20/22 01:10

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0217

SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Blank	BKL0463-BLK1	CubeData_12272022@1508-636	Solid	12/20/22 01:41
LCS	BKL0463-BS1	CubeData_12272022@1508-643	Solid	12/20/22 02:11
Calibration Check	SKL0217-CCVE	CubeData_12272022@1508-649	NA	12/20/22 02:42
Calibration Blank	SKL0217-CCBE	CubeData_12272022@1508-654	NA	12/20/22 03:12
Reference	BKL0463-SRM1	CubeData_12272022@1508-661	Solid	12/20/22 03:43
LDW22-SC762A	22L0199-01	CubeData_12272022@1508-038	Solid	12/20/22 07:46
LDW22-SC762B	22L0199-02	CubeData_12272022@1508-048	Solid	12/20/22 08:17
Calibration Check	SKL0217-CCVF	CubeData_12272022@1508-058	NA	12/20/22 08:47
Calibration Blank	SKL0217-CCBF	CubeData_12272022@1508-070	NA	12/20/22 09:17
LDW22-SC762C	22L0199-03	CubeData_12272022@1508-076	Solid	12/20/22 09:48
LDW22-SC762D	22L0199-04	CubeData_12272022@1508-087	Solid	12/20/22 10:18
LDW22-SC762E	22L0199-05	CubeData_12272022@1508-101	Solid	12/20/22 10:49
LDW22-SC762F	22L0199-06	CubeData_12272022@1508-111	Solid	12/20/22 11:19
LDW22-SC762G	22L0199-07	CubeData_12272022@1508-124	Solid	12/20/22 11:49
LDW22-SC762H	22L0199-08	CubeData_12272022@1508-133	Solid	12/20/22 12:20
LDW22-SC762I	22L0199-09	CubeData_12272022@1508-144	Solid	12/20/22 12:50
Calibration Check	SKL0217-CCVG	CubeData_12272022@1508-184	NA	12/20/22 14:52
Calibration Blank	SKL0217-CCBG	CubeData_12272022@1508-193	NA	12/20/22 15:23
LDW22-SC762J	22L0199-10	CubeData_12272022@1508-204	Solid	12/20/22 15:54
LDW22-IT789F	22L0199-11	CubeData_12272022@1508-216	Solid	12/20/22 16:24
LDW22-IT789G	22L0199-12	CubeData_12272022@1508-227	Solid	12/20/22 16:55
LDW22-IT789H	22L0199-13	CubeData_12272022@1508-236	Solid	12/20/22 17:25
LDW22-IT789I	22L0199-14	CubeData_12272022@1508-249	Solid	12/20/22 17:55
LDW22-IT789I-FD	22L0199-15	CubeData_12272022@1508-259	Solid	12/20/22 18:26
MRL Check	BKL0464-MRL1	CubeData_12272022@1508-270	Solid	12/20/22 18:57
Blank	BKL0464-BLK1	CubeData_12272022@1508-282	Solid	12/20/22 19:27
LCS	BKL0464-BS1	CubeData_12272022@1508-292	Solid	12/20/22 19:58
Reference	BKL0464-SRM1	CubeData_12272022@1508-303	Solid	12/20/22 20:28
Calibration Check	SKL0217-CCVH	CubeData_12272022@1508-312	NA	12/20/22 20:59

ANALYSIS BATCH (SEQUENCE) SUMMARY

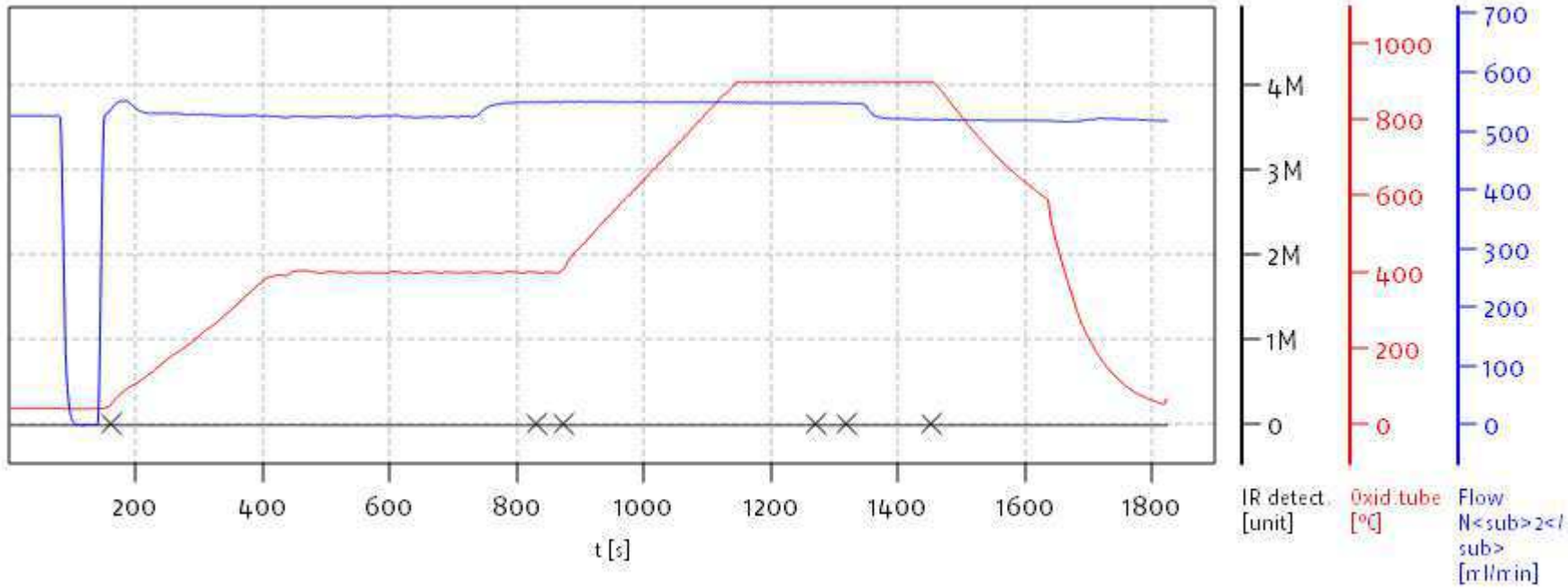
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0217	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SKL0217-CCBH	CubeData_12272022@1508-326	NA	12/20/22 21:29

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	12/16/2022 11:41 AM	bl	0.000	8 545	0.000	0.000	1 185	2 404	0.000	0.000	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Wed Dec 21 09:58:21 2022

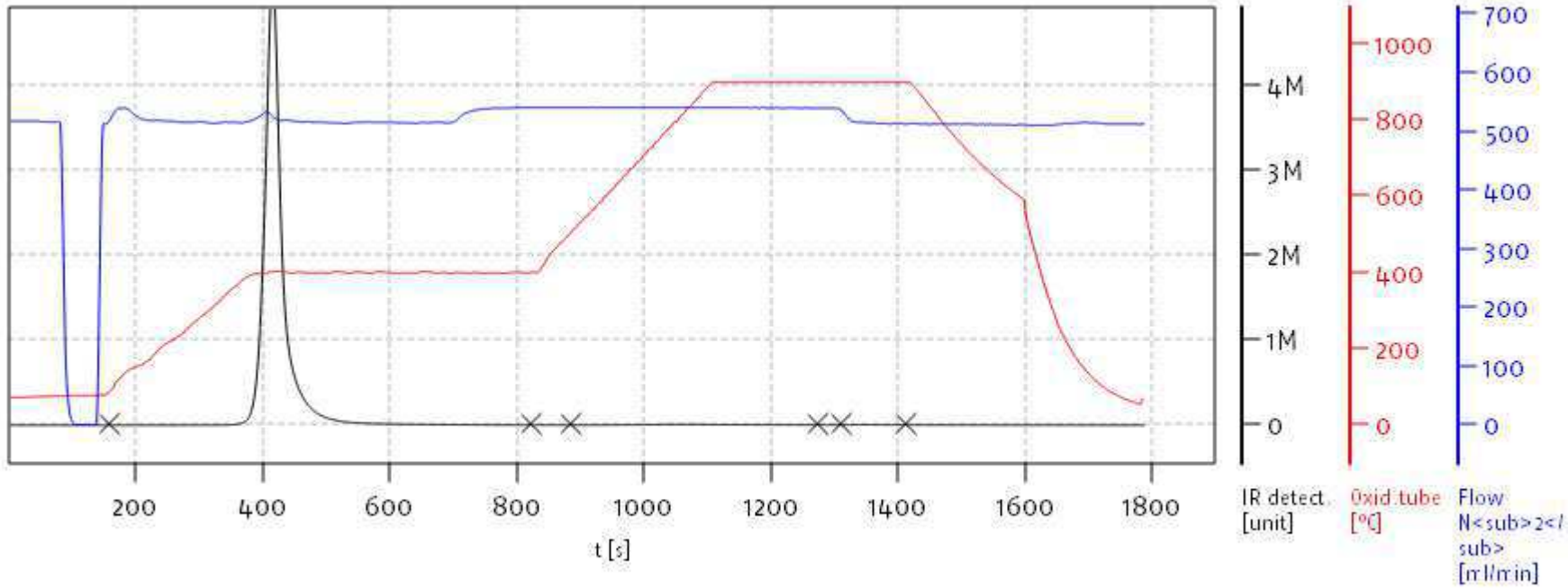
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	20.30		CARBON	12/16/2022 12:11 PM	bl	44.446	6 333 160	44.781	0.000	15 519	70 563	44.446	0.336	0.9242	1.0000



Name:

Access: soliTOC superuser

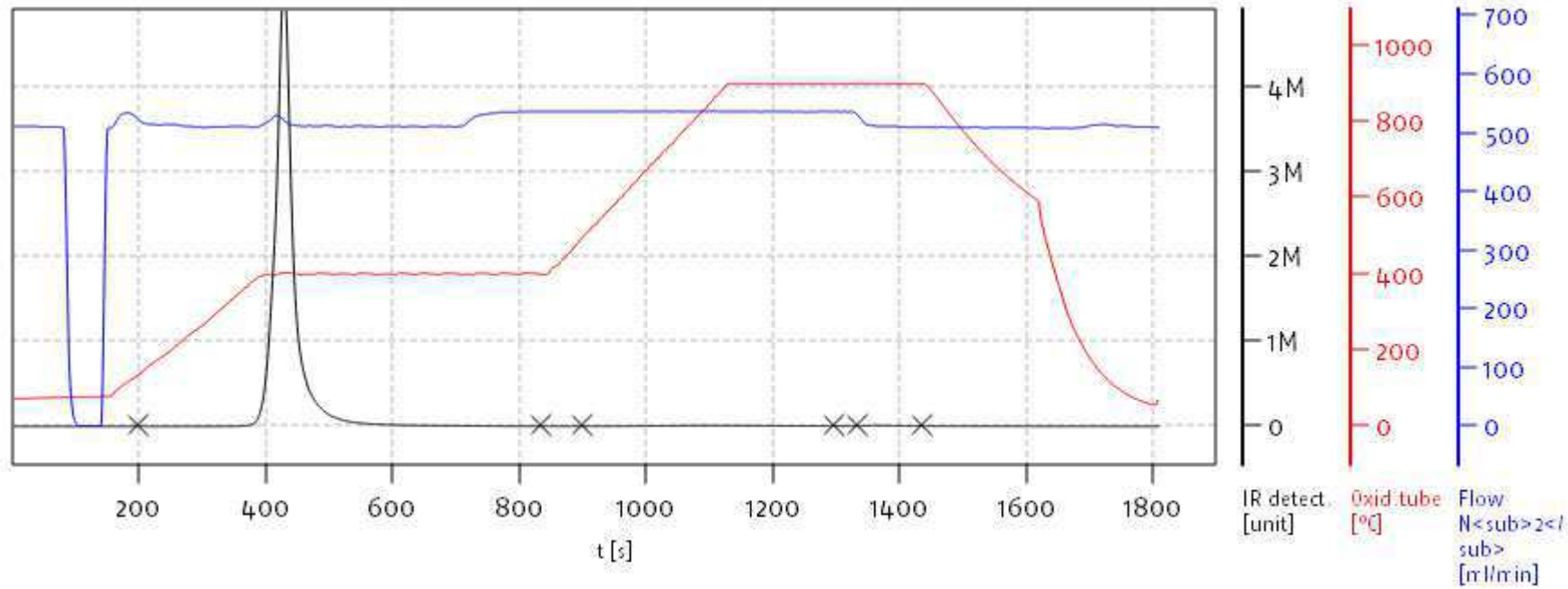
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	21.10		CARBON	12/16/2022 12:42 PM	bl	44.446	6 493 980	44.911	0.000	26 199	90 011	44.446	0.466	0.9367	1.0000



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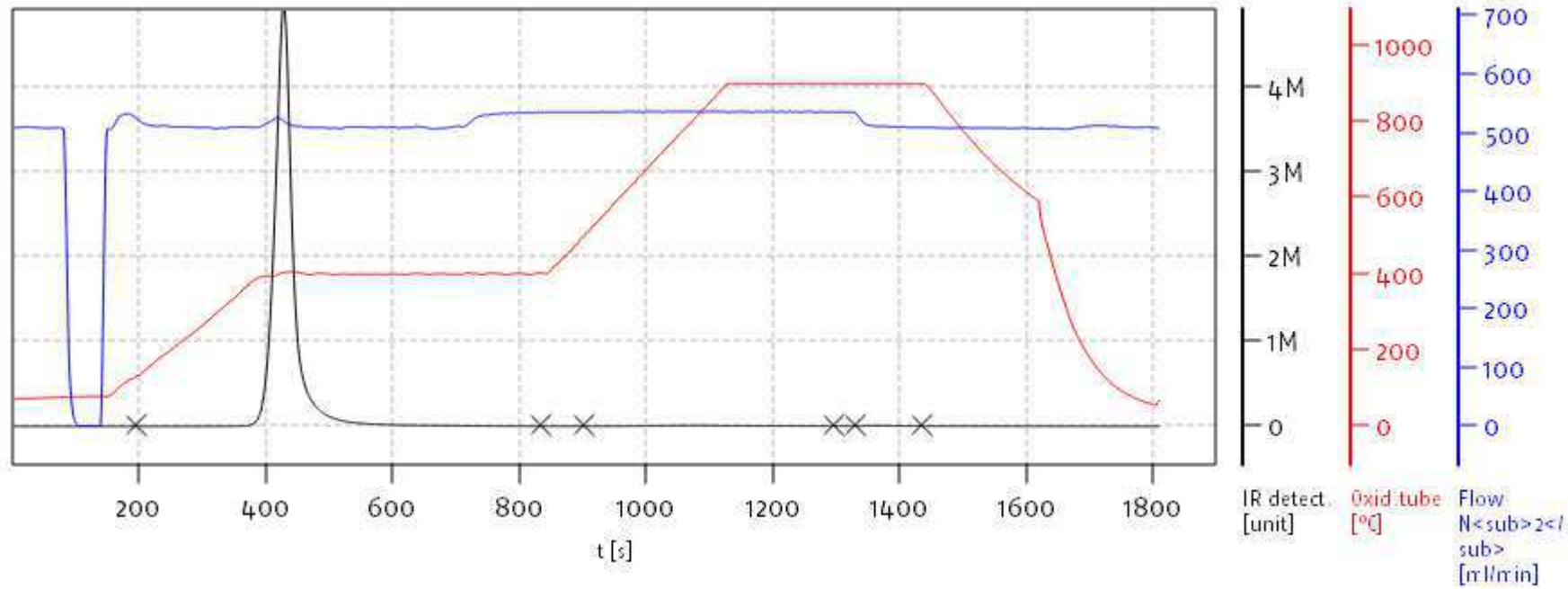
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SKL0217-ICV1	20.30		CARBON	12/16/2022 1:12 PM	bl	44.775	6 337 100	45.238	0.000	23 219	87 311	44.775	0.463	0.9304	1.0000



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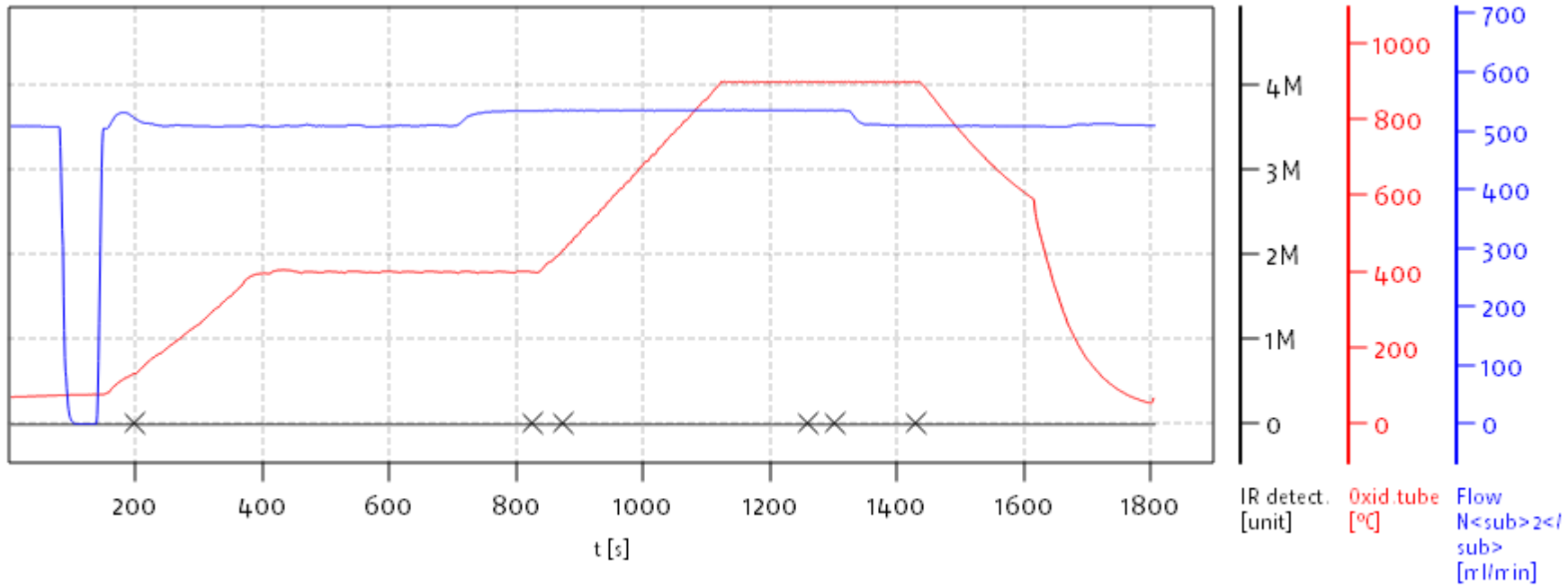
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SKL0217-ICB1	529.40		CARBON	12/16/2022 1:43 PM	bl,C2u	0.000	4 532	0.000	0.000	924	3 175	0.000	0.000	0.9304	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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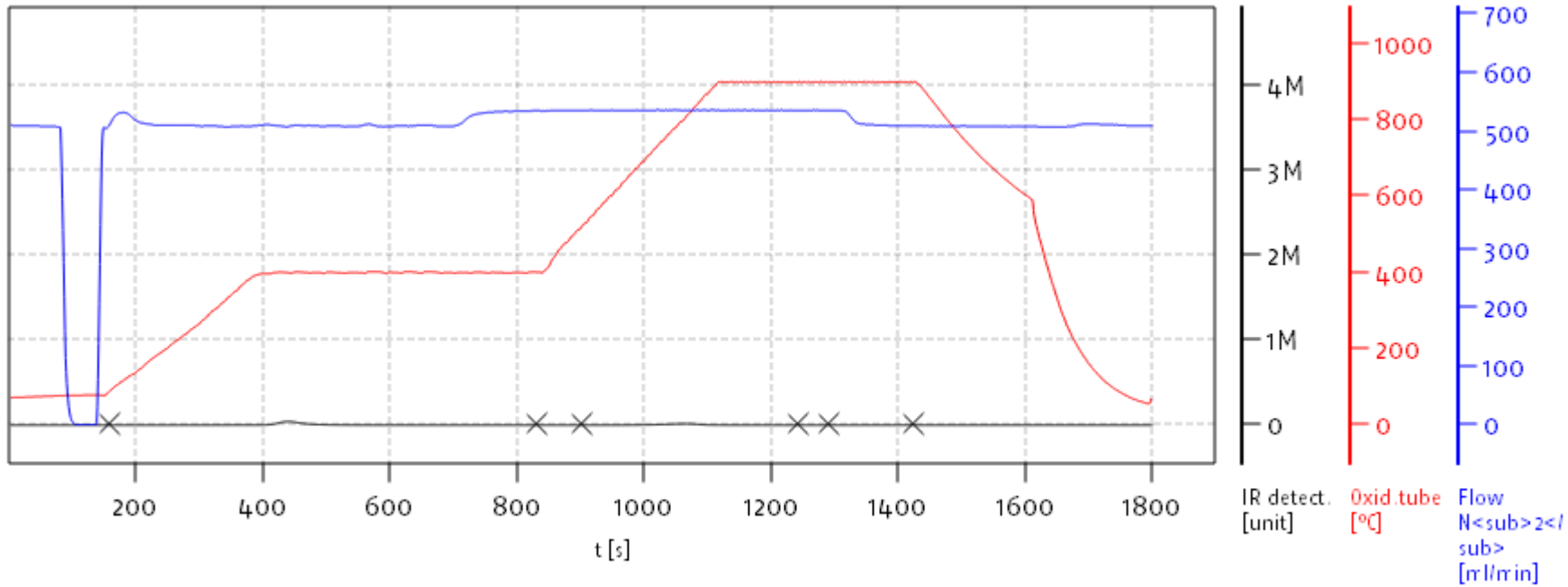
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	BKL0385-MRL1	559.30		CARBON	12/16/2022 2:13 PM	bl,C2u	0.013	78 403	0.017	0.000	928	40 099	0.013	0.004	0.9304	1.0000



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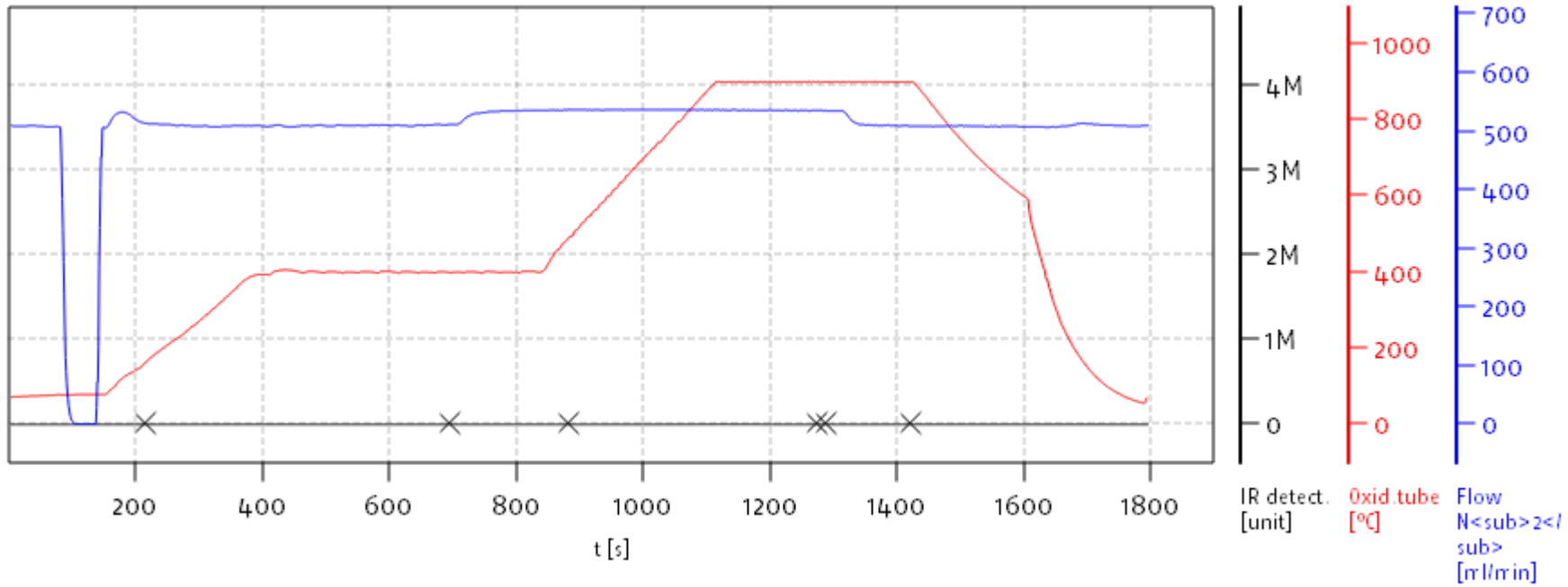
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BKL0385-BLK1	546.20		CARBON	12/16/2022 2:43 PM	bl,C2u	0.000	2 675	0.000	0.000	545	7 017	0.000	0.000	0.9304	1.0000



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Balance: BAL3
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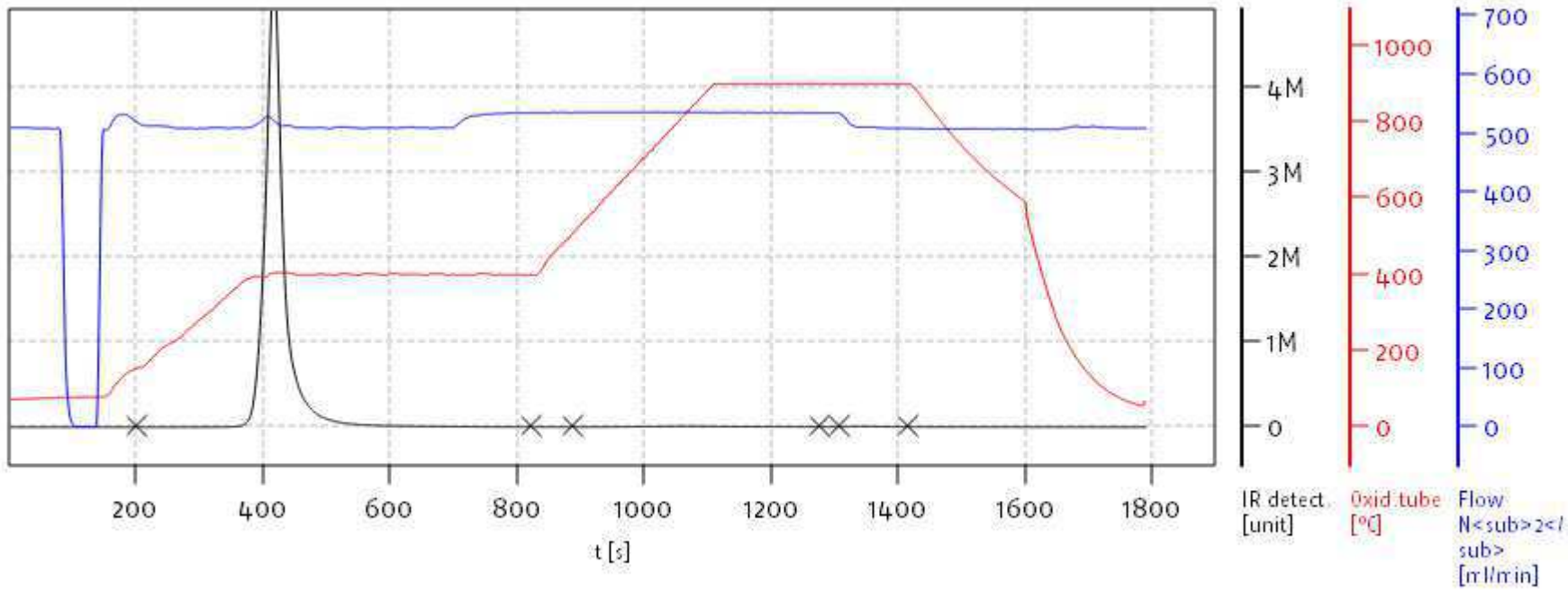
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BKL0385-BS1	21.30		CARBON	12/16/2022 3:14 PM	bl	44.953	6 674 320	45.356	0.000	22 486	81 977	44.953	0.403	0.9304	1.0000



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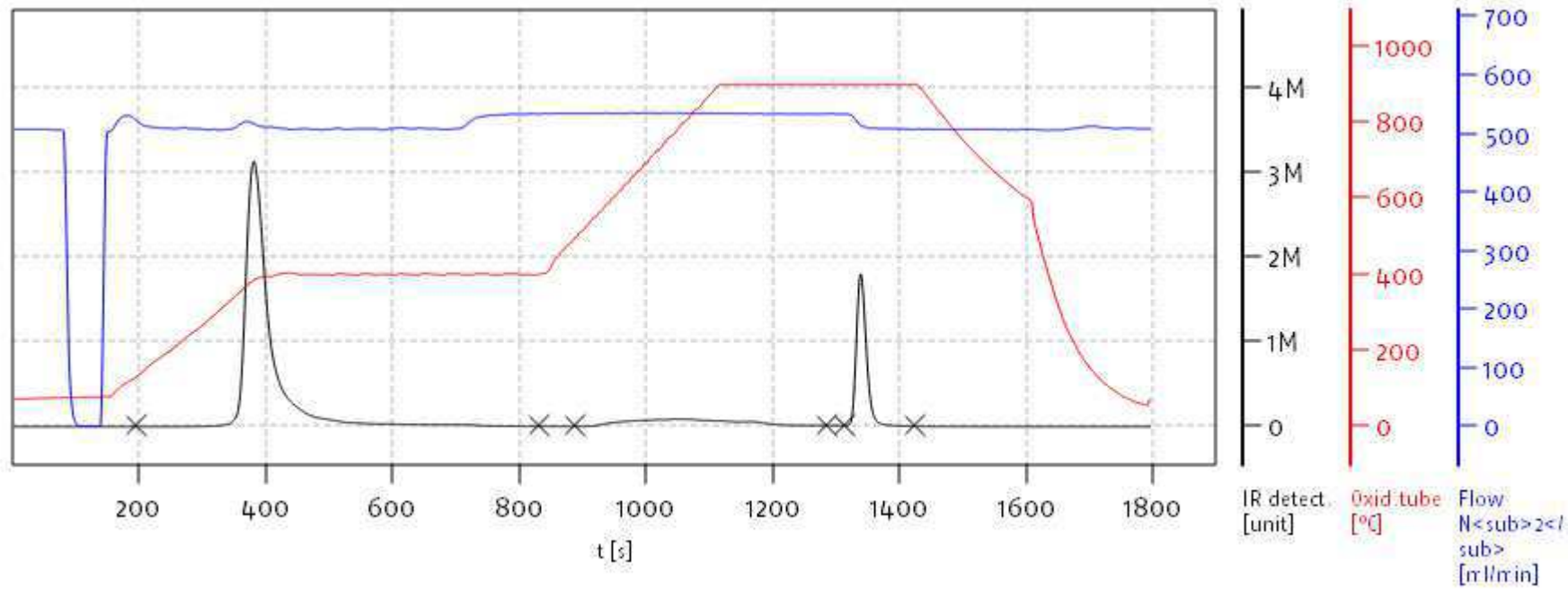
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	BKL0385-SRM1	304.60		CARBON	12/16/2022 3:44 PM	bl	3.022	5 106 150	3.381	0.620	1 246 280	733 271	2.402	0.359	0.9304	1.0000



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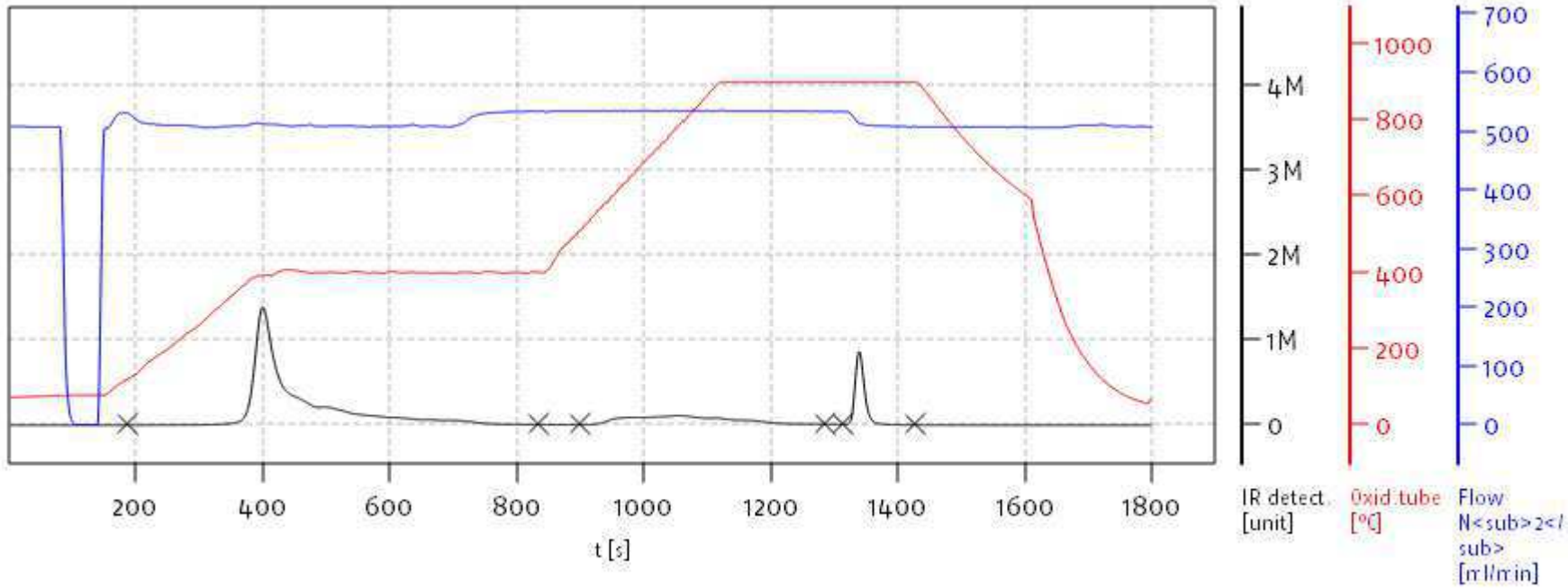
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	22L0137-36	529.70		CARBON	12/16/2022 4:14 PM	bl	1.096	3 477 240	1.339	0.158	567 530	857 094	0.938	0.243	0.9304	1.0000



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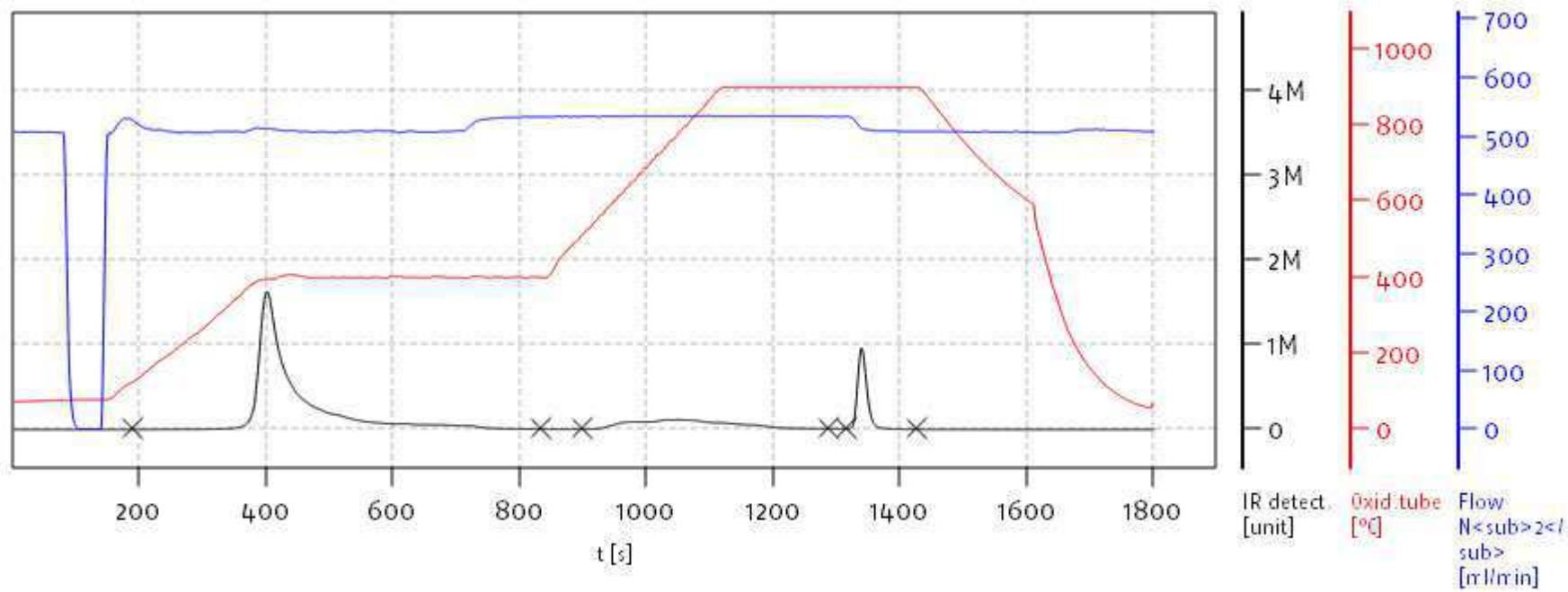
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	BKL0385-DUP1	519.50		CARBON	12/16/2022 4:45 PM	bl	1.221	3 784 250	1.470	0.180	629 184	861 902	1.042	0.249	0.9304	1.0000



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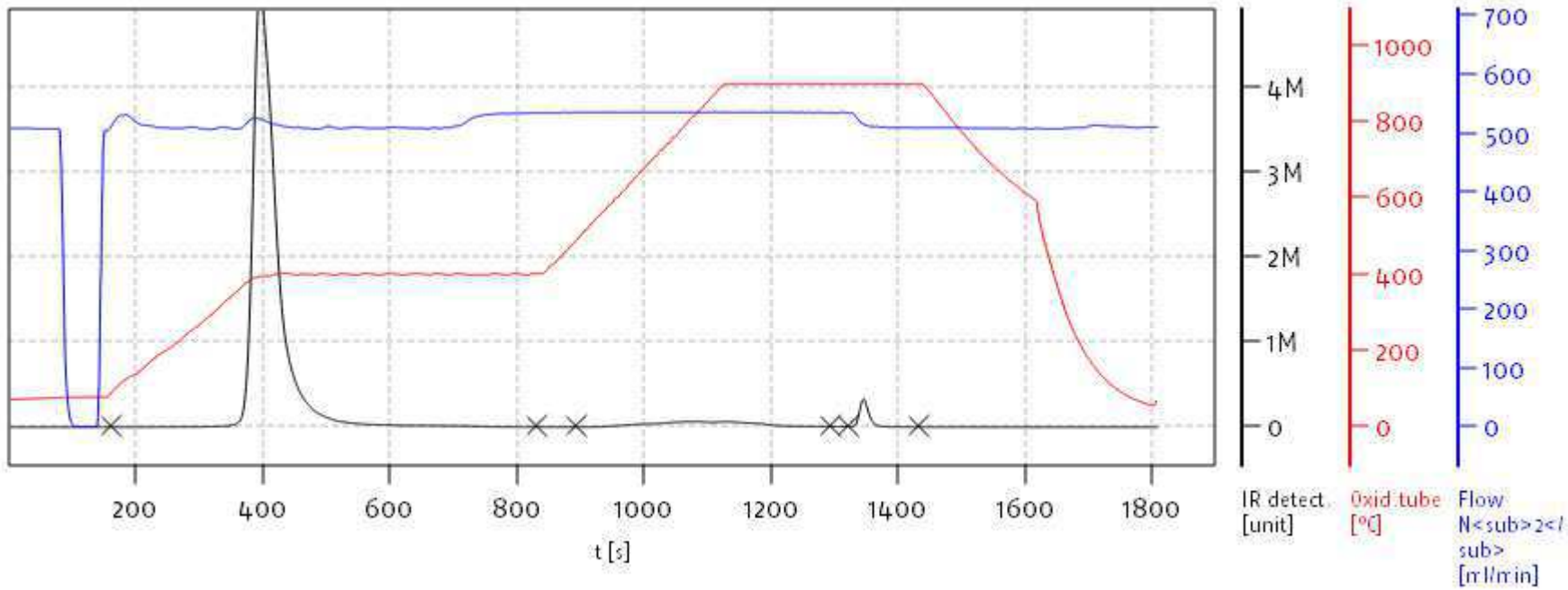
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	BKL0385-MS1	523.20	0.0087	CARBON	12/16/2022 5:15 PM	bl	2.365	8 415 350	2.500	0.056	214 684	483 923	2.309	0.135	0.9304	1.0000



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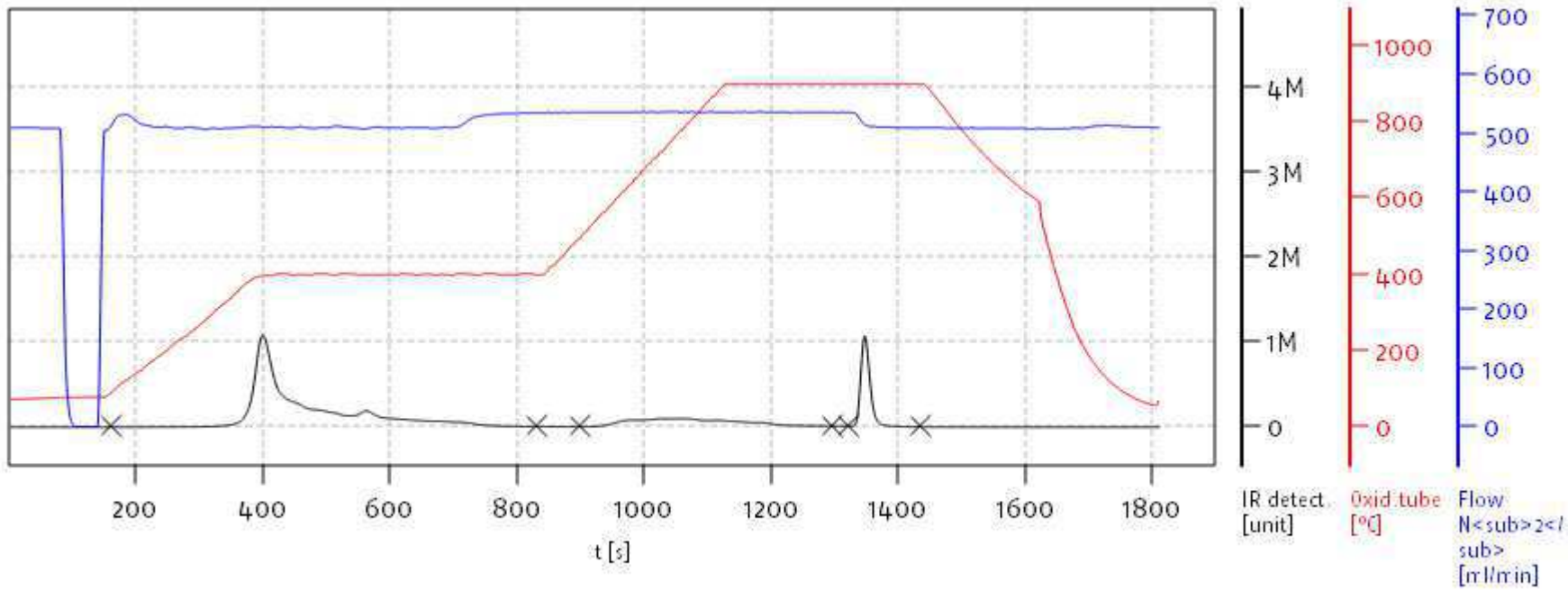
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	22L0137-37	520.90		CARBON	12/16/2022 5:46 PM	bl	1.046	3 090 810	1.281	0.199	695 560	816 362	0.847	0.235	0.9304	1.0000



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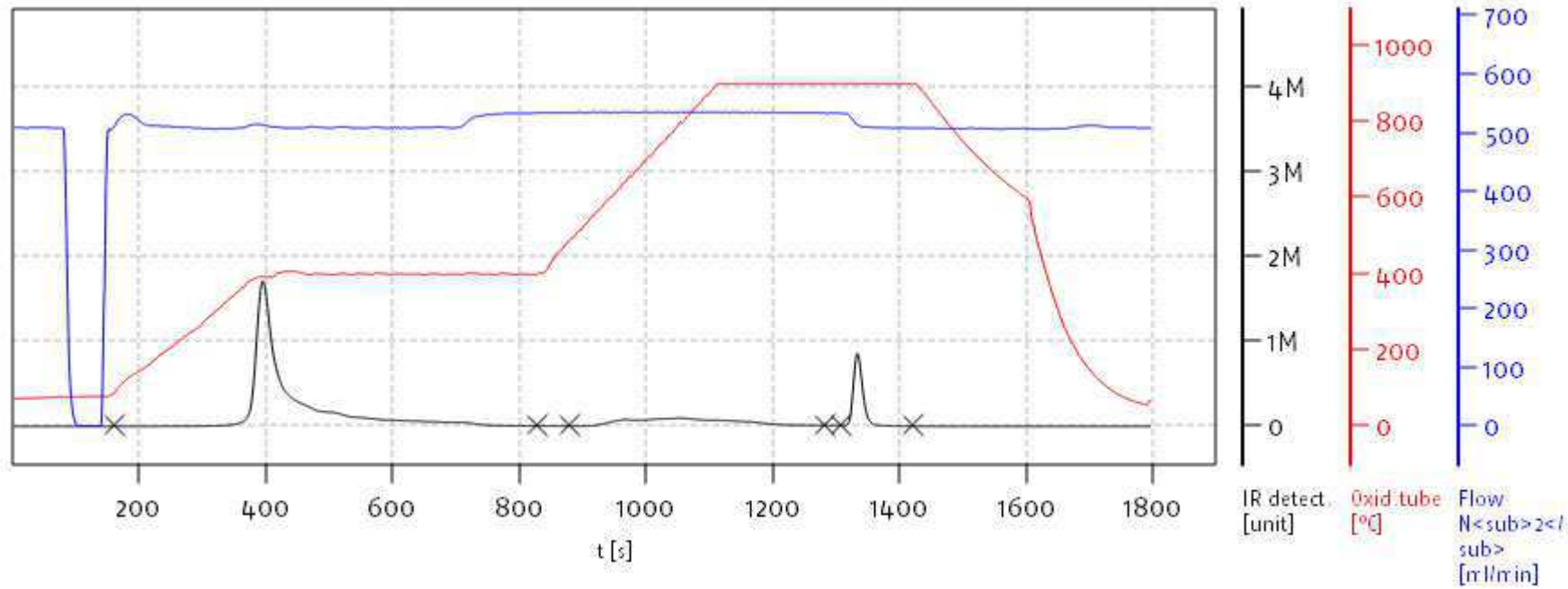
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	22L0137-38	515.90		CARBON	12/16/2022 6:16 PM	bl	1.111	3 431 480	1.334	0.160	559 565	769 569	0.951	0.223	0.9304	1.0000



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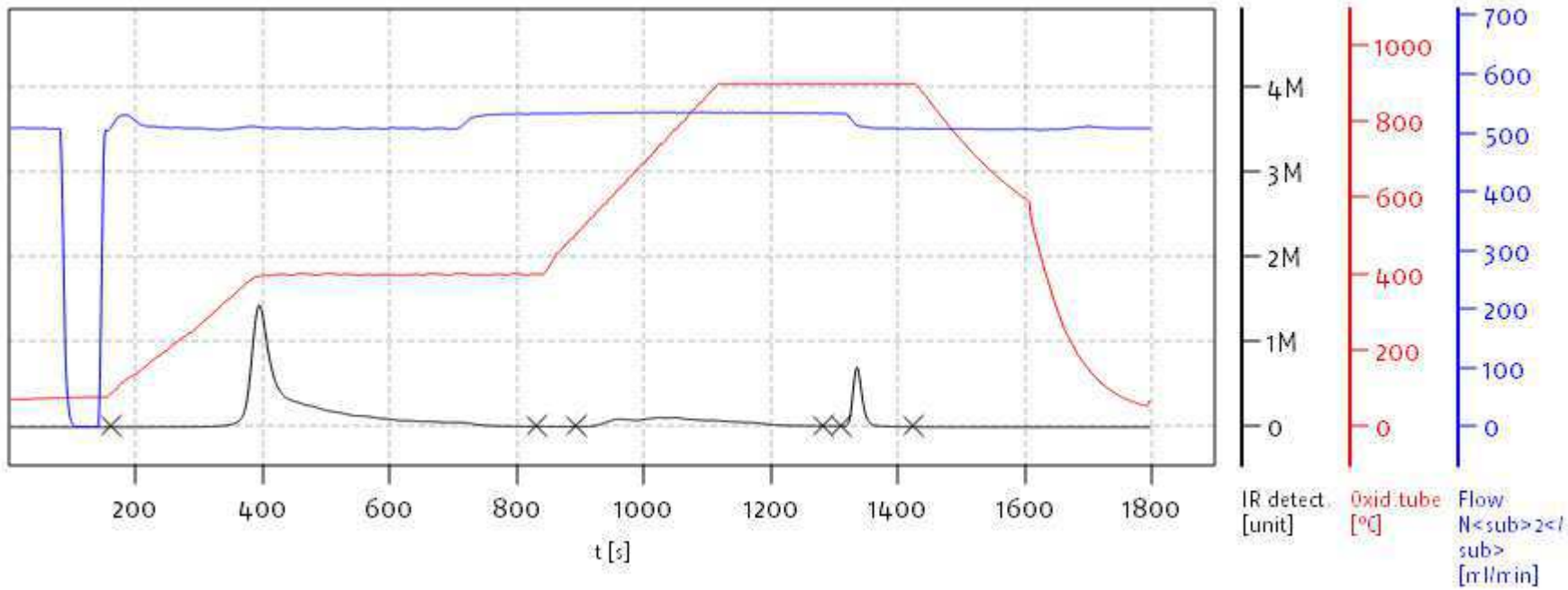
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	22L0137-39	504.80		CARBON	12/16/2022 6:47 PM	bl	1.134	3 528 840	1.391	0.135	466 110	864 978	0.999	0.257	0.9304	1.0000



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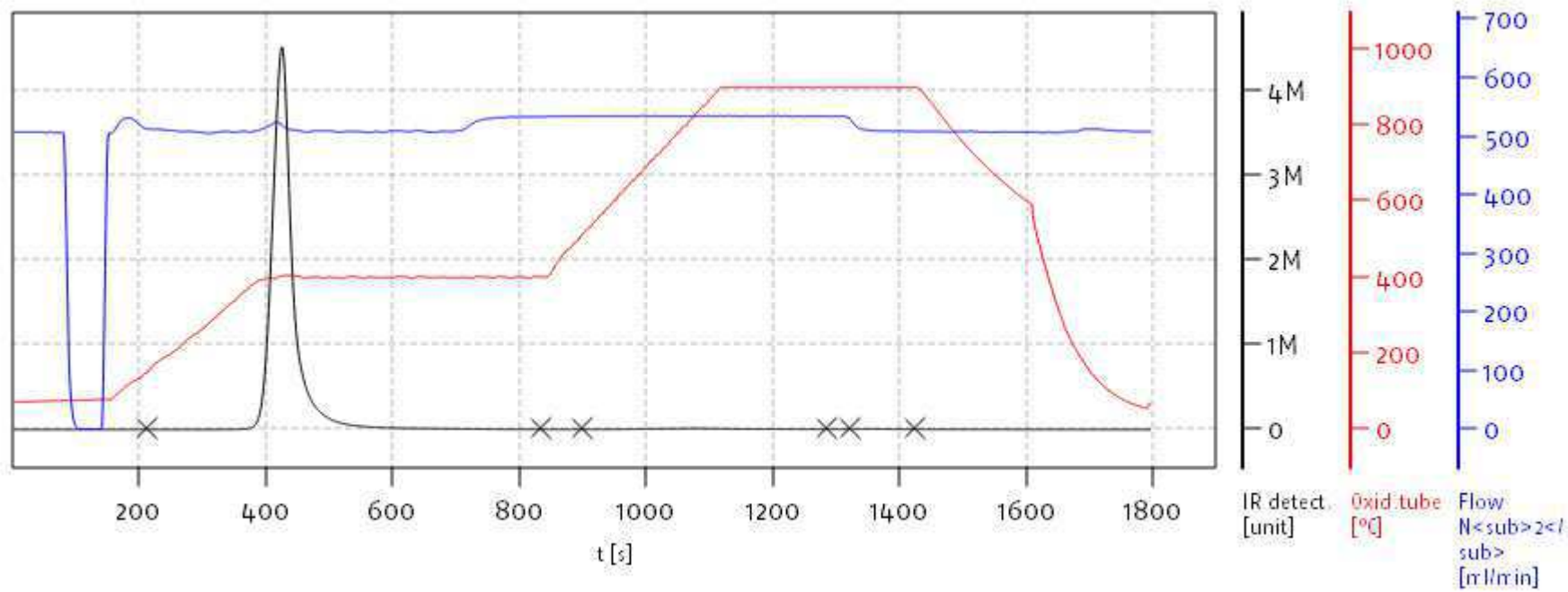
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SKL0217-CCV1	20.40		CARBON	12/16/2022 7:17 PM	bl	44.899	6 385 710	45.399	0.000	18 989	92 451	44.899	0.500	0.9304	1.0000



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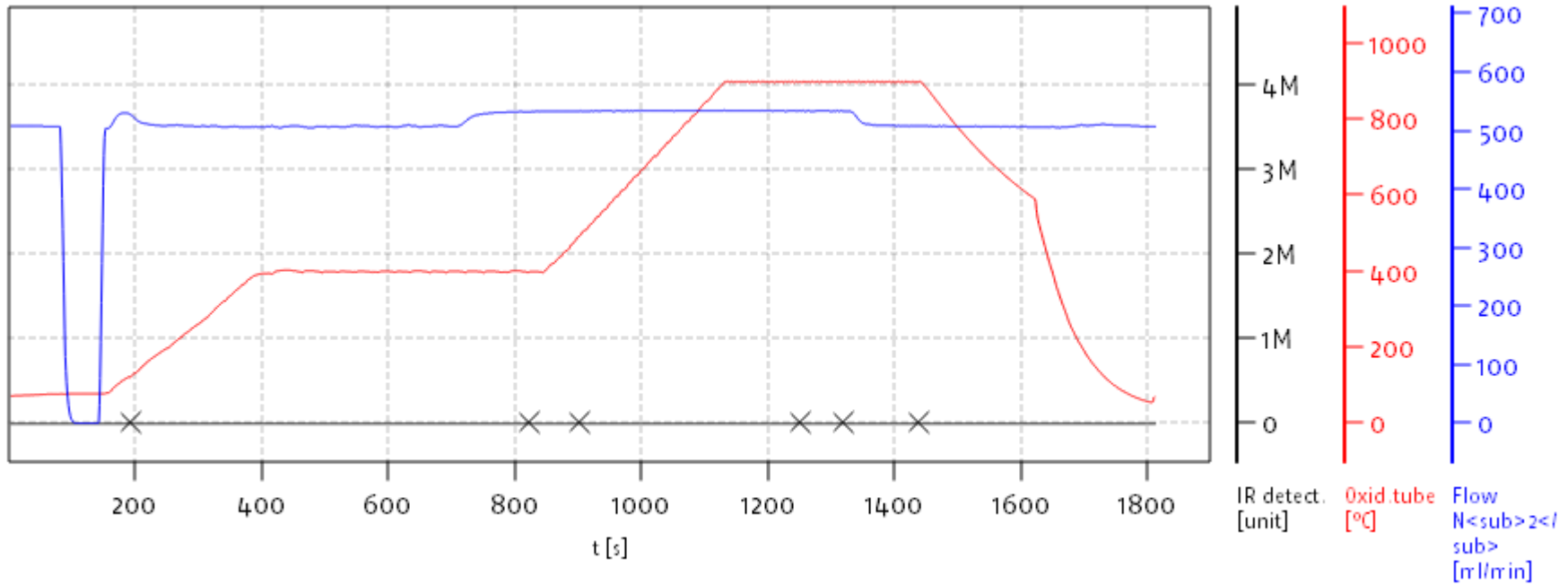
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SKL0217-CCB1	524.10		CARBON	12/16/2022 7:47 PM	bl,C3u,C2u	0.000	4 398	0.000	0.000	285	1 138	0.000	0.000	0.9304	1.0000



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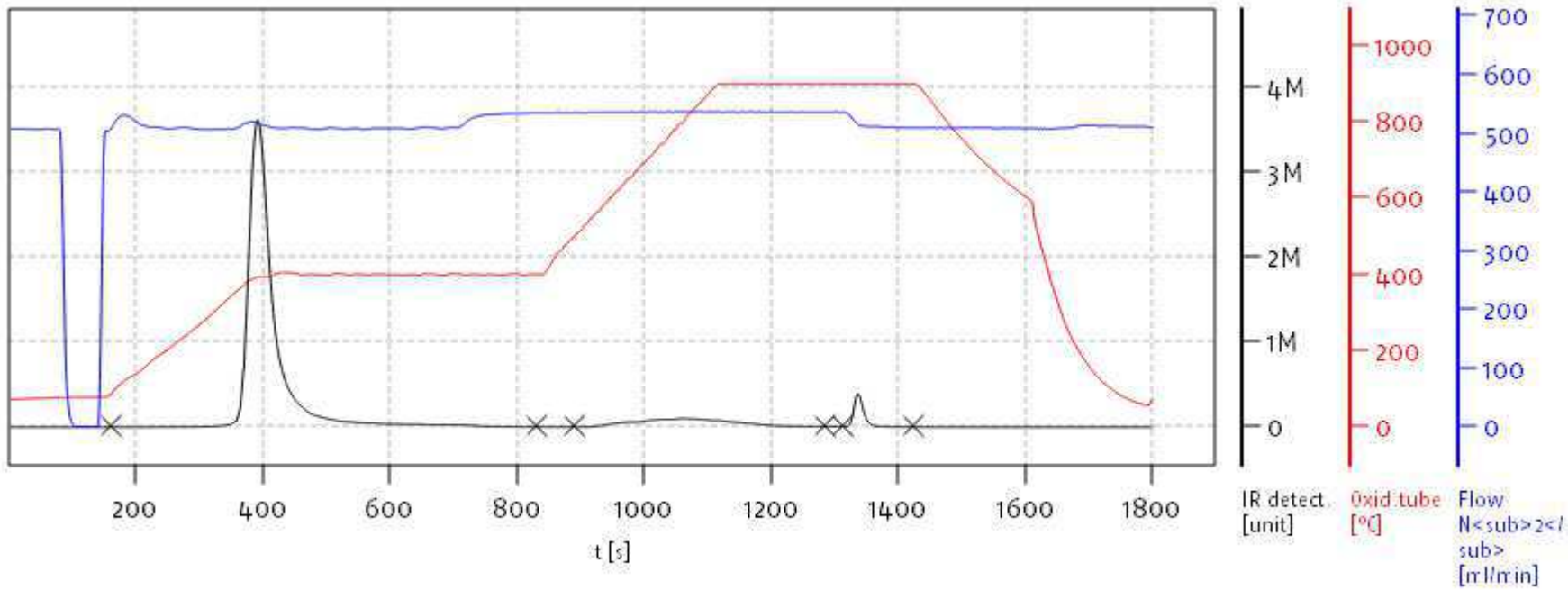
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	22L0137-40	535.40		CARBON	12/16/2022 8:18 PM	bl	1.720	6 161 650	1.915	0.069	266 294	701 813	1.650	0.195	0.9304	1.0000



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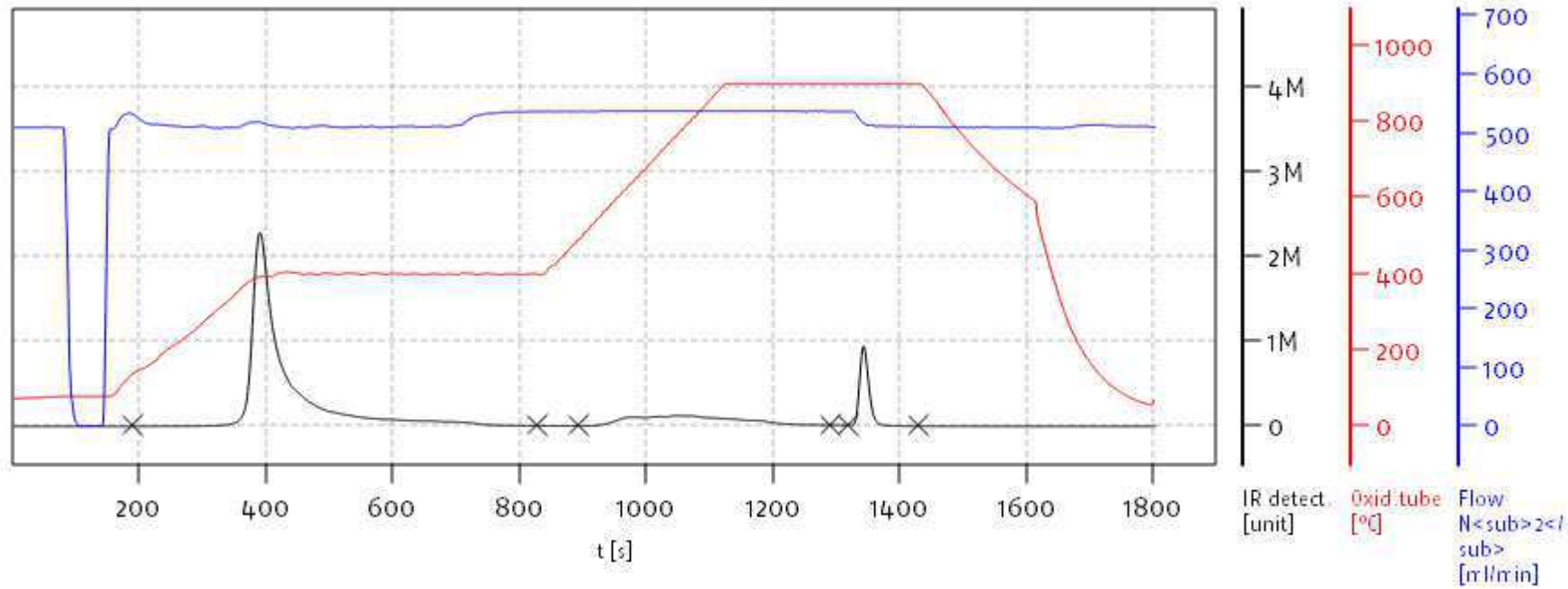
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	22L0137-41	546.80		CARBON	12/16/2022 8:48 PM	bl	1.419	4 783 510	1.702	0.166	613 994	1 025 980	1.253	0.283	0.9304	1.0000



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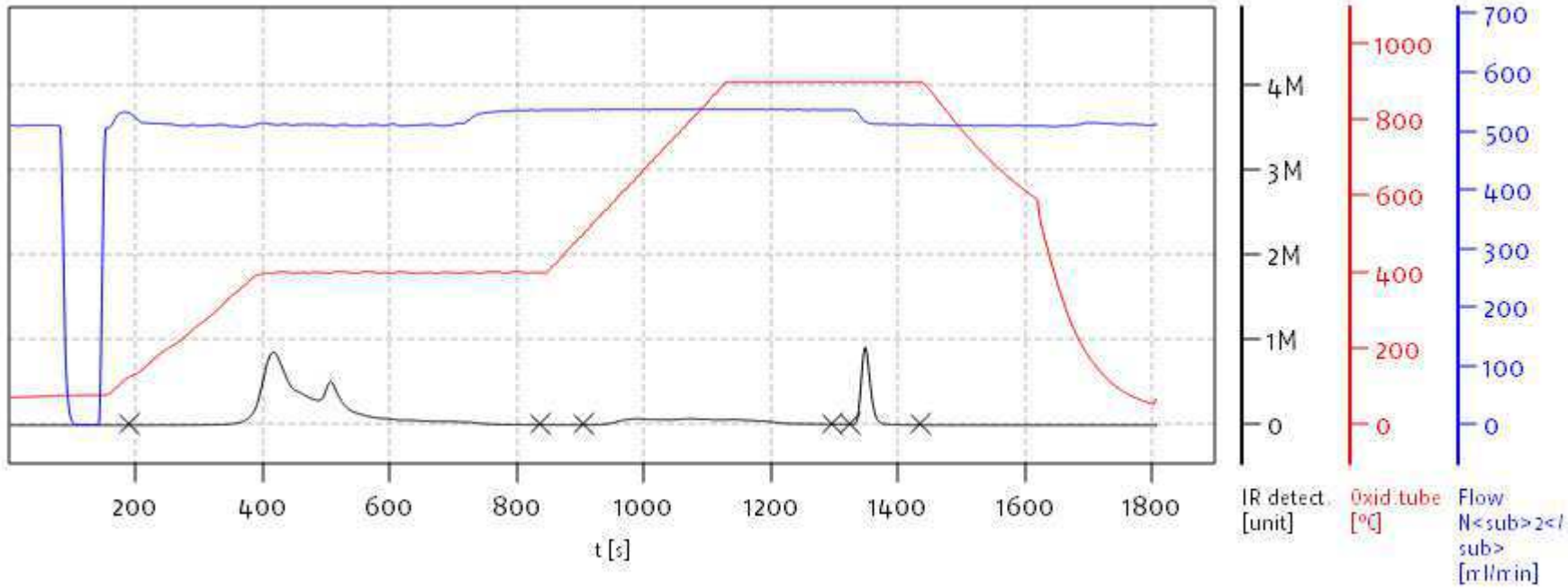
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	22L0137-42	501.10		CARBON	12/16/2022 9:19 PM	bl	1.078	3 178 100	1.278	0.173	585 332	671 410	0.906	0.199	0.9304	1.0000



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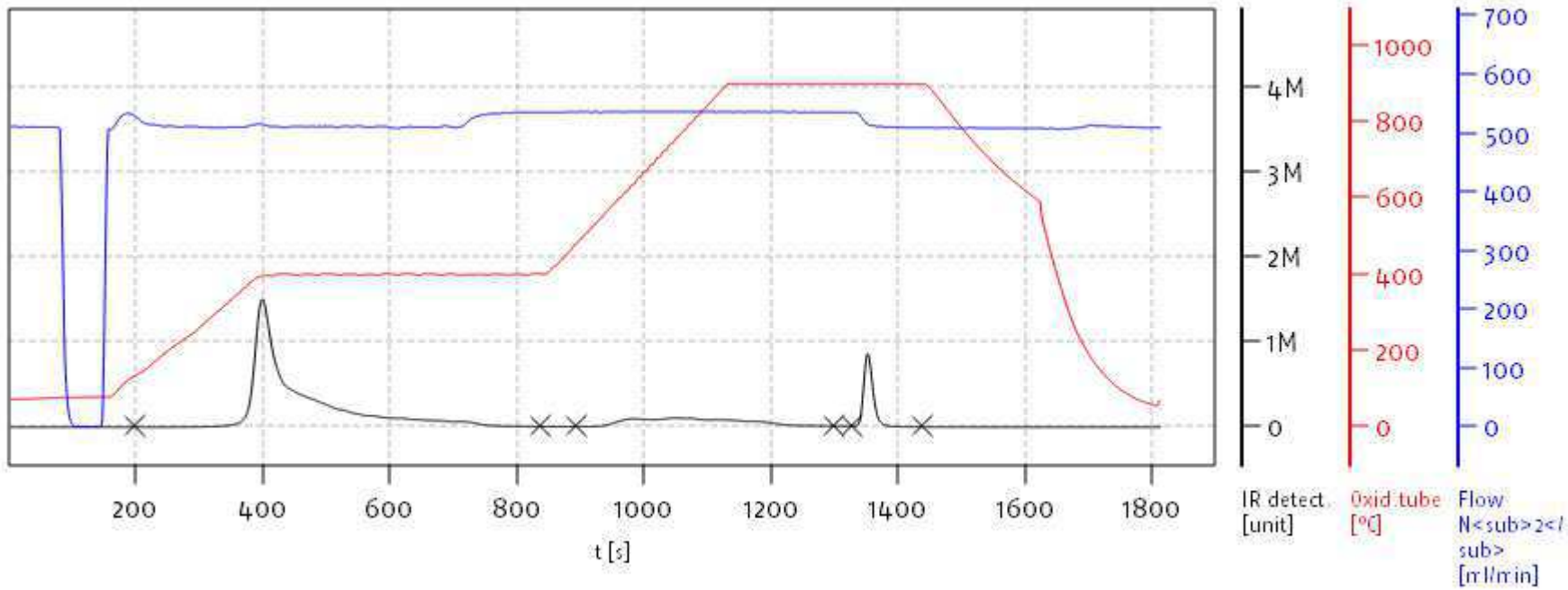
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	22L0137-43	528.10		CARBON	12/16/2022 9:49 PM	bl	1.251	4 033 830	1.508	0.158	566 301	903 746	1.093	0.257	0.9304	1.0000



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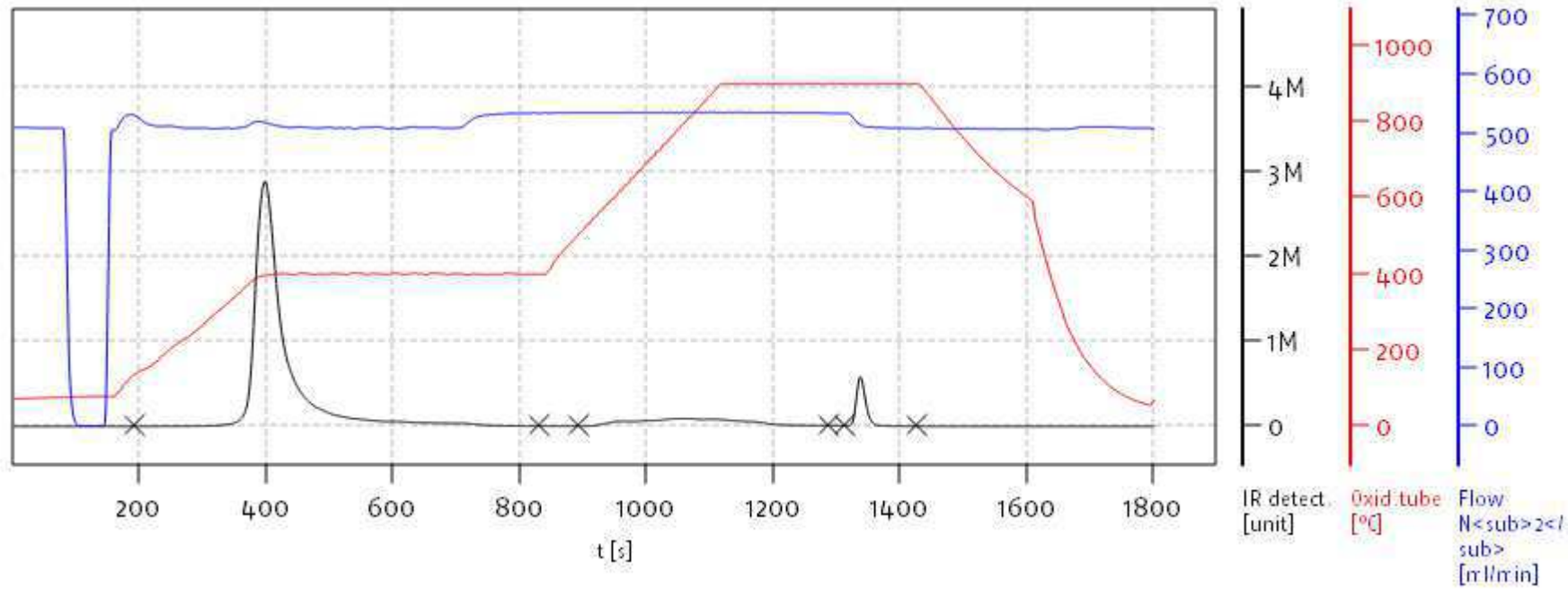
Access: soliTOC superuser

Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	22L0137-44	510.20		CARBON	12/16/2022 10:20 PM	bl	1.709	5 700 630	1.924	0.107	379 826	735 639	1.602	0.215	0.9304	1.0000



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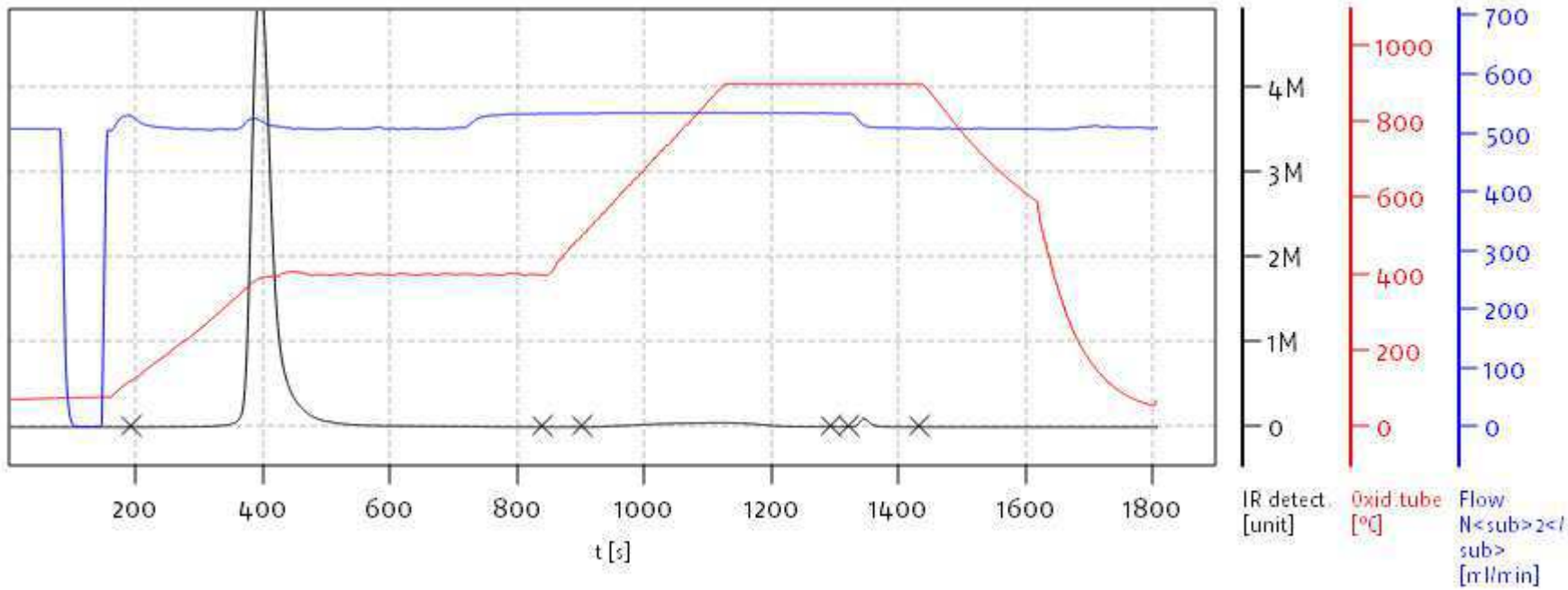
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	22L0137-45	507.10		CARBON	12/16/2022 10:50 PM	bl	2.155	7 560 180	2.263	0.015	75 113	381 937	2.140	0.108	0.9304	1.0000



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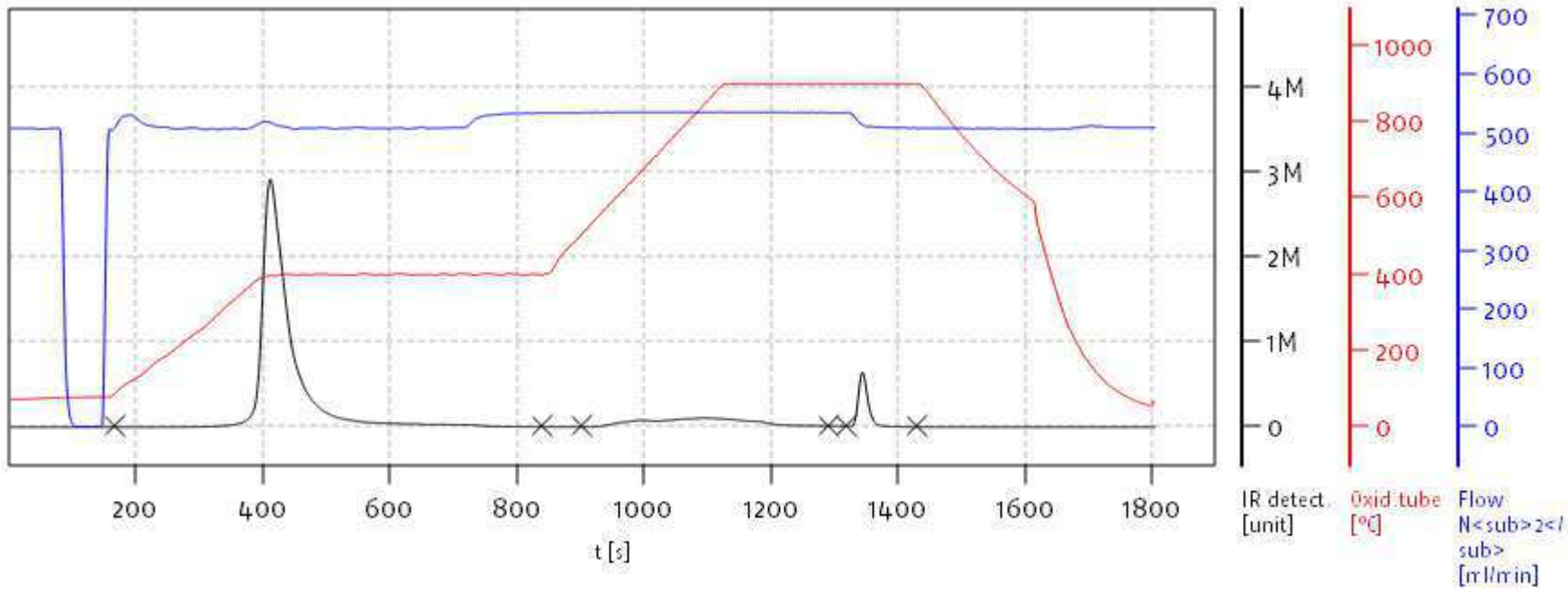
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	22L0137-46	507.90		CARBON	12/16/2022 11:21 PM	bl	1.655	5 429 400	1.903	0.123	430 431	838 948	1.532	0.248	0.9304	1.0000



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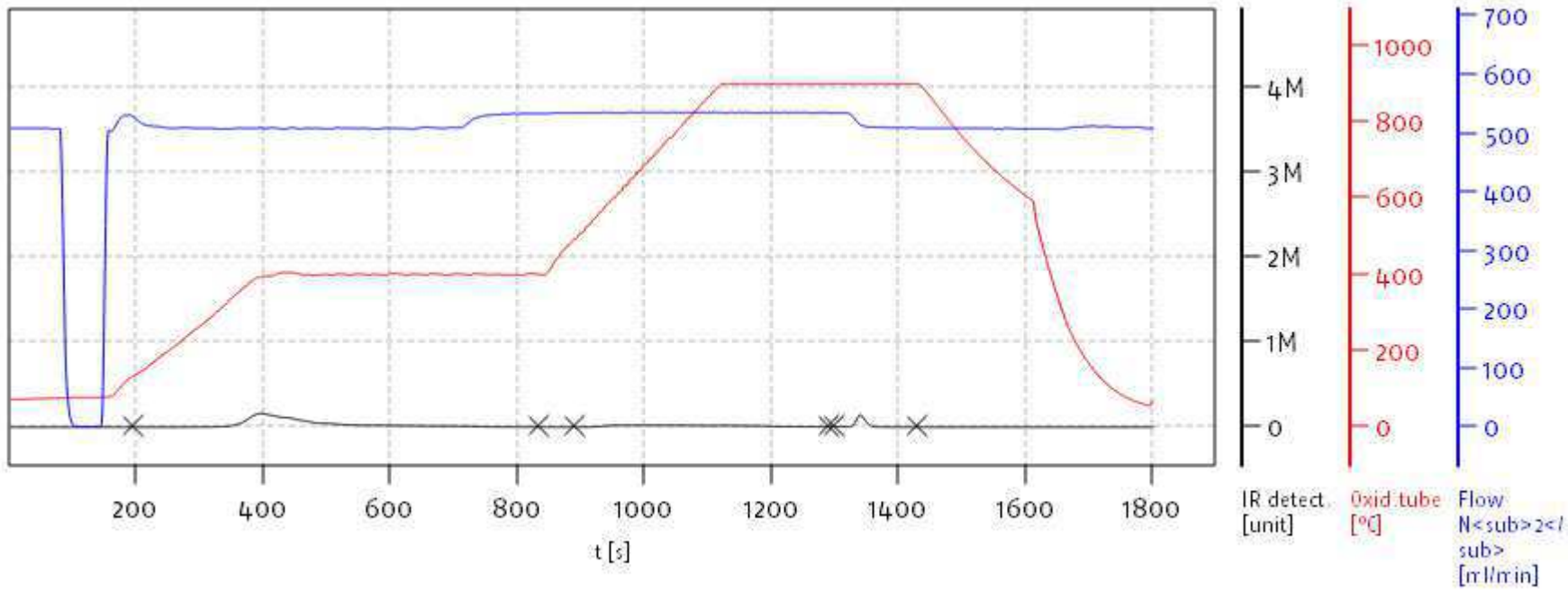
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	22L0137-47	151.00		CARBON	12/16/2022 11:51 PM	bl	0.723	709 585	0.908	0.071	95 858	207 397	0.652	0.185	0.9304	1.0000



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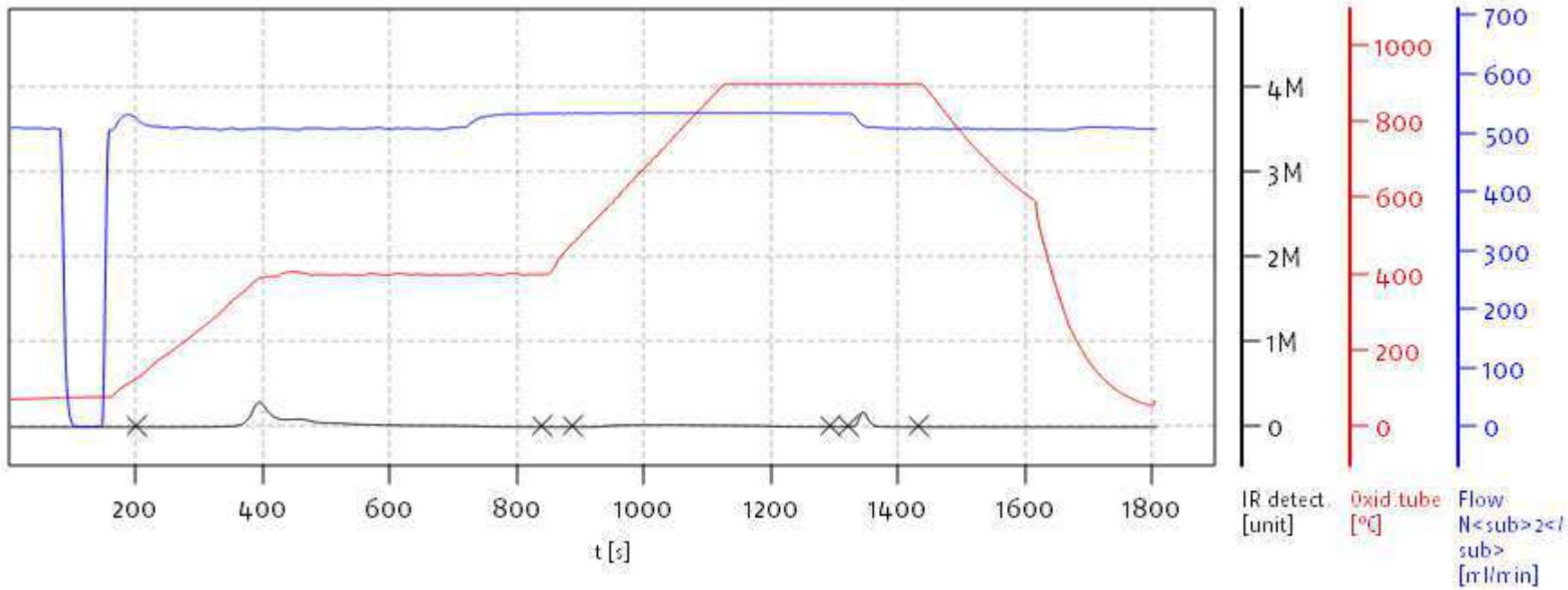
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	22L0137-48	156.80		CARBON	12/17/2022 12:22 AM	bl	0.831	836 252	1.013	0.087	114 914	210 415	0.744	0.182	0.9304	1.0000



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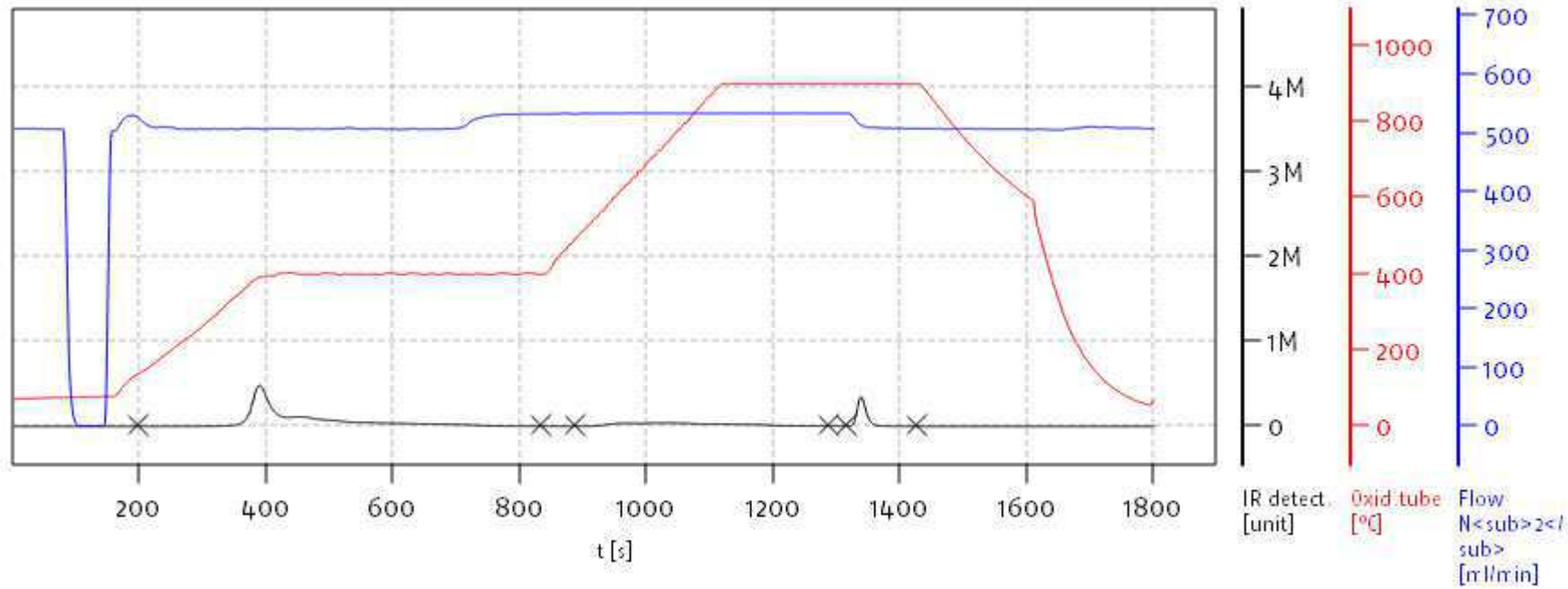
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	22L0137-49	221.60		CARBON	12/17/2022 12:52 AM	bl	0.921	1 235 860	1.129	0.135	220 108	324 133	0.786	0.208	0.9304	1.0000



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Serial No: 0300.181017
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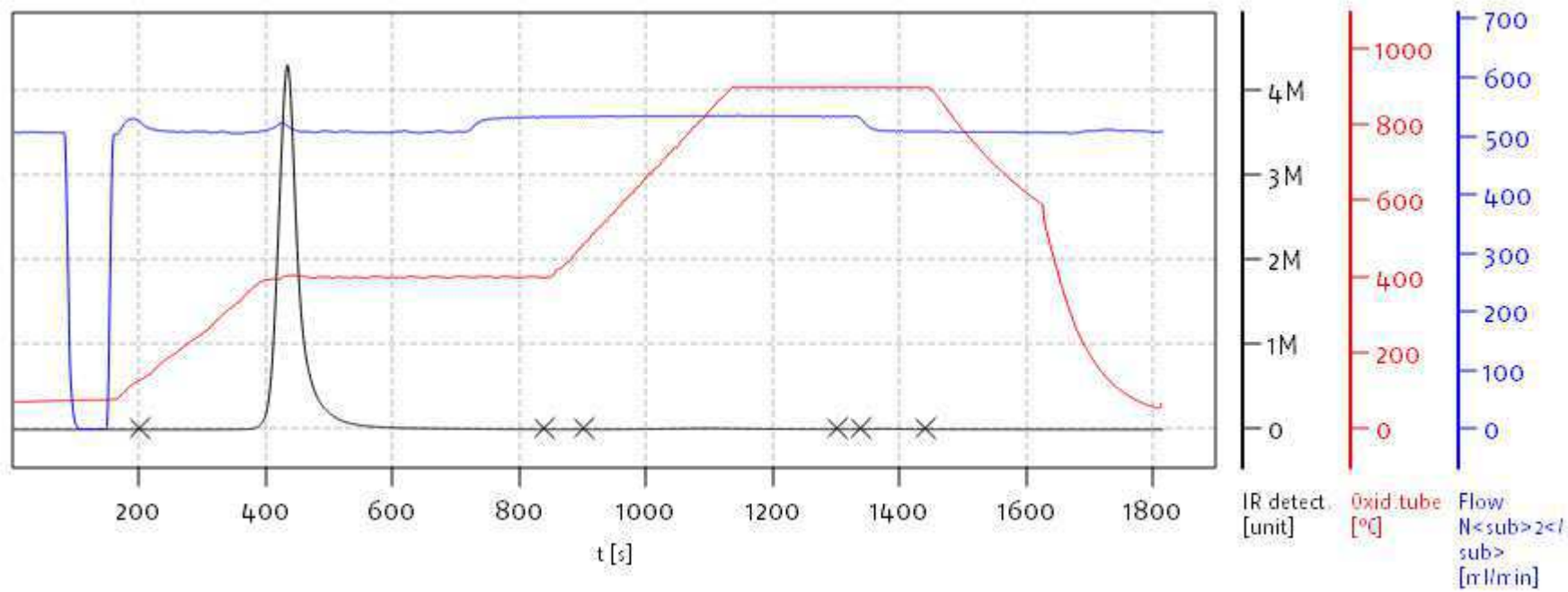
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SKL0217-CCV2	20.50		CARBON	12/17/2022 1:23 AM	bl	43.840	6 266 240	44.395	0.000	19 820	100 027	43.840	0.555	0.9304	1.0000



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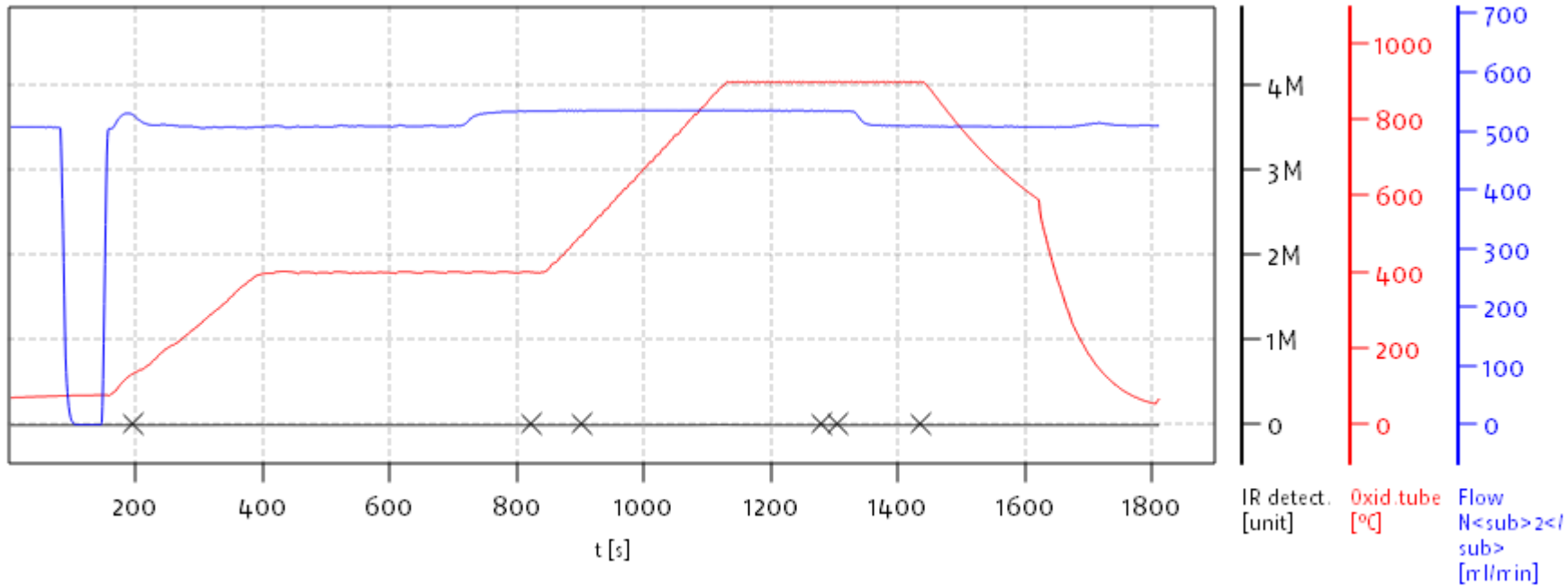
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SKL0217-CCB2	570.20		CARBON	12/17/2022 1:53 AM	bl,C2u	0.000	6 750	0.000	0.000	319	8 814	0.000	0.000	0.9304	1.0000



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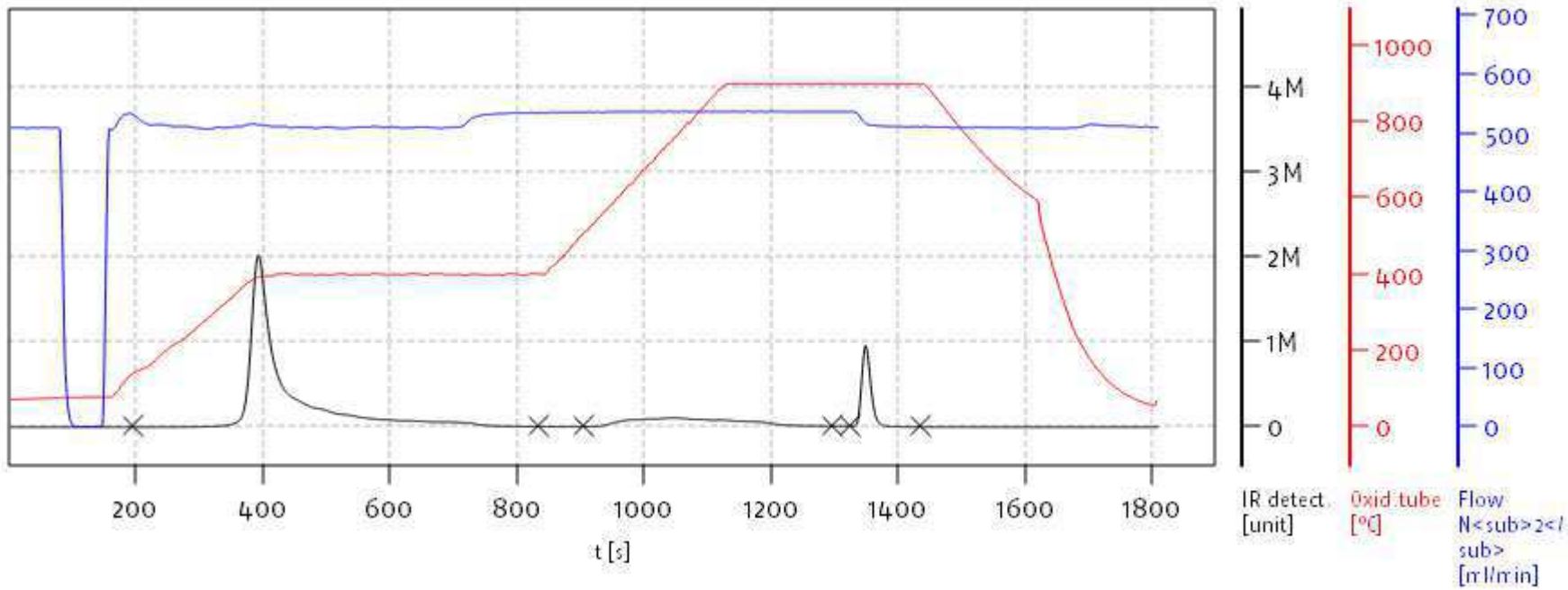
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	22L0137-50	507.80		CARBON	12/17/2022 2:24 AM	bl	1.363	4 200 090	1.621	0.179	613 780	873 347	1.184	0.258	0.9304	1.0000



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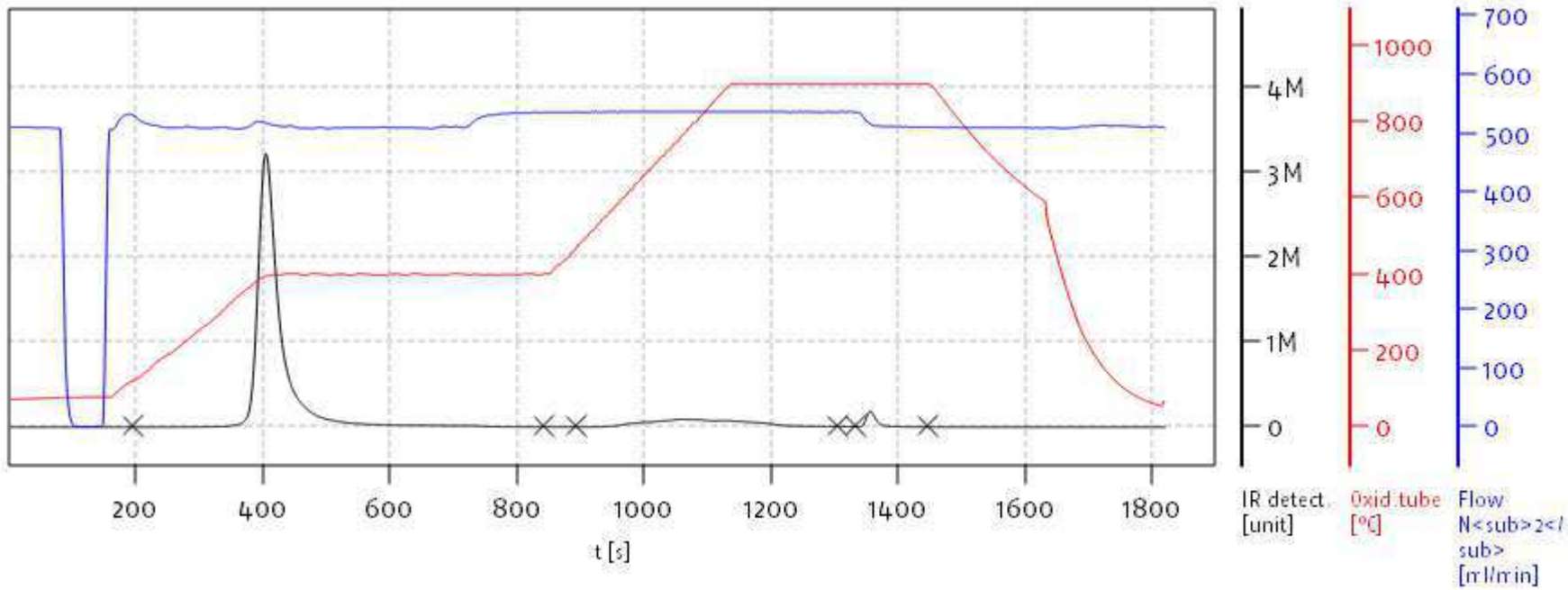
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	22L0137-51	508.60		CARBON	12/17/2022 2:55 AM	bl	1.412	4 898 960	1.606	0.033	133 458	662 412	1.380	0.194	0.9304	1.0000



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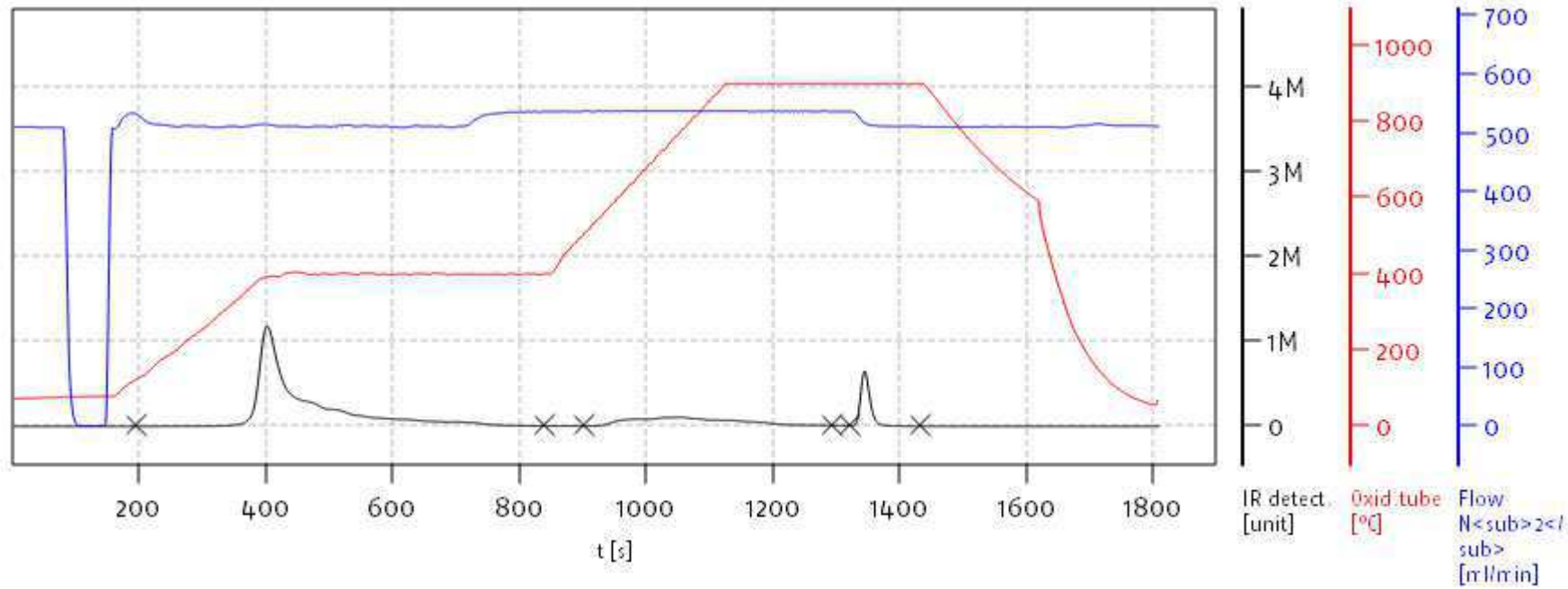
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	22L0137-52	514.30		CARBON	12/17/2022 3:25 AM	bl	1.008	3 195 740	1.247	0.120	426 413	820 266	0.888	0.239	0.9304	1.0000



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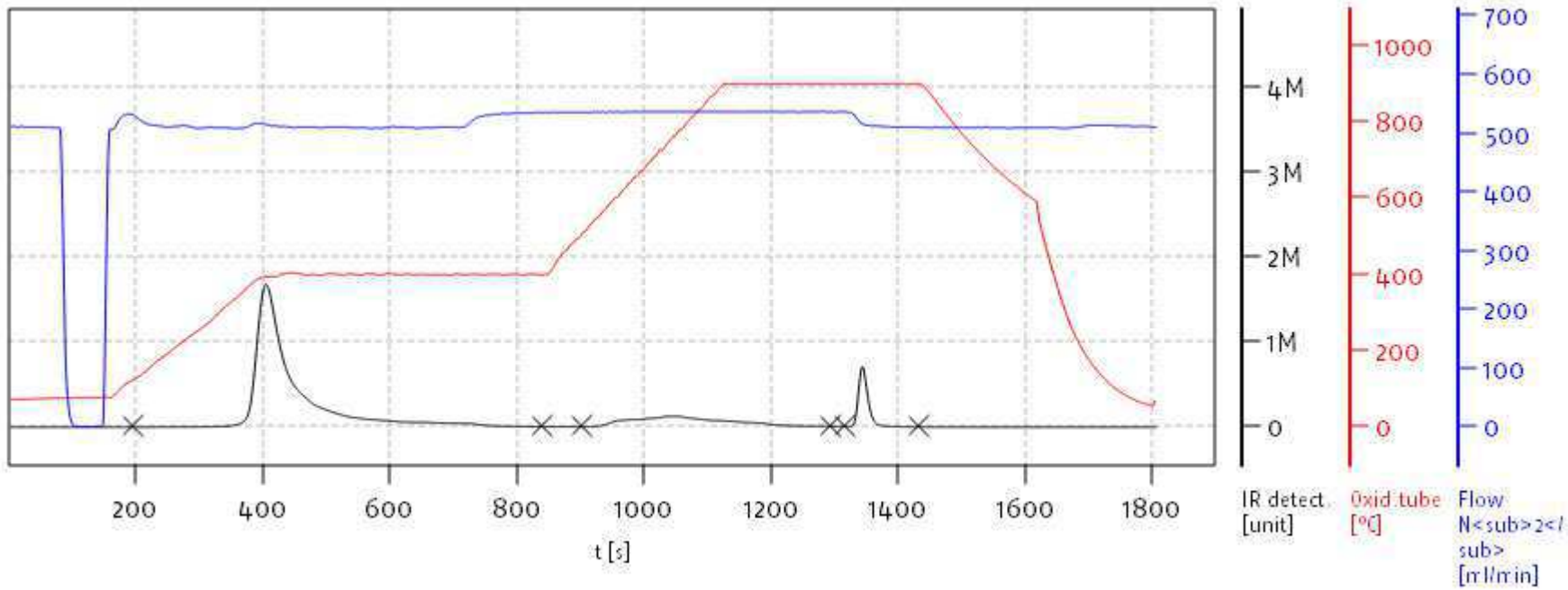
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	22L0137-53	515.00		CARBON	12/17/2022 3:56 AM	bl	1.282	4 131 150	1.539	0.134	472 731	882 811	1.148	0.257	0.9304	1.0000



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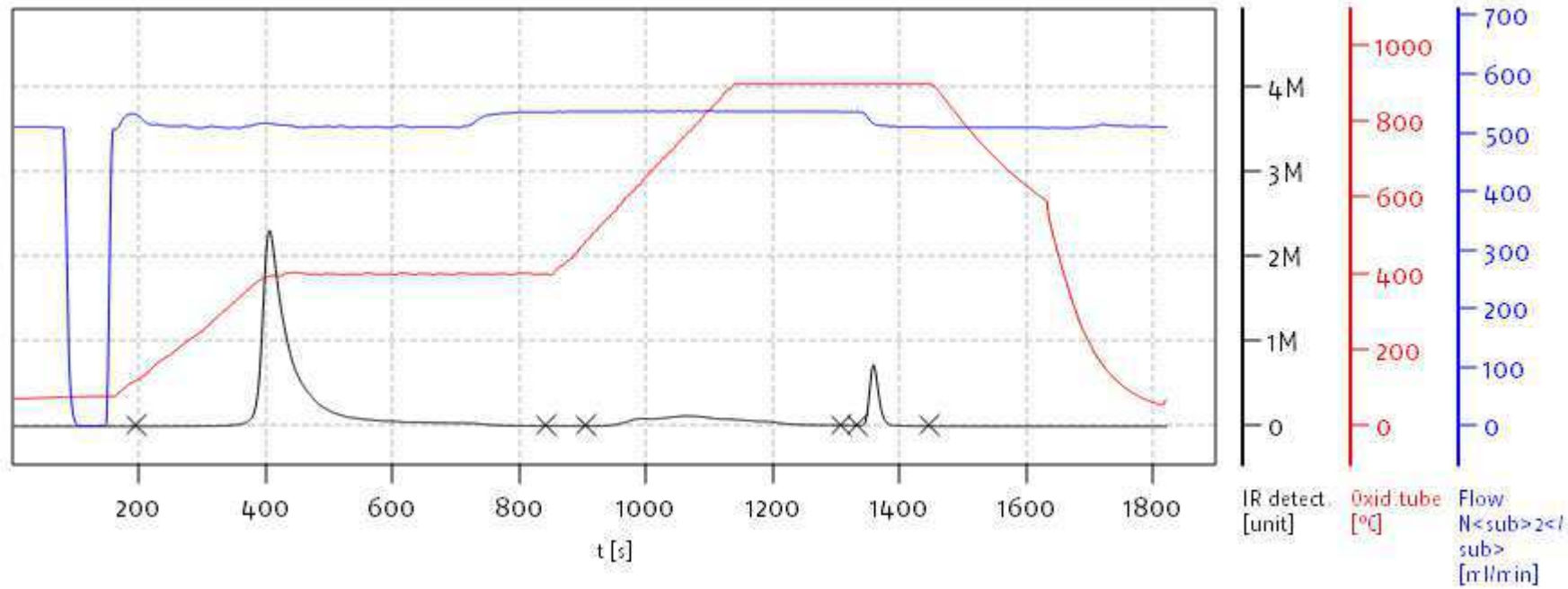
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	22L0137-54	509.80		CARBON	12/17/2022 4:27 AM	bl	1.438	4 636 570	1.703	0.136	472 852	899 656	1.302	0.265	0.9304	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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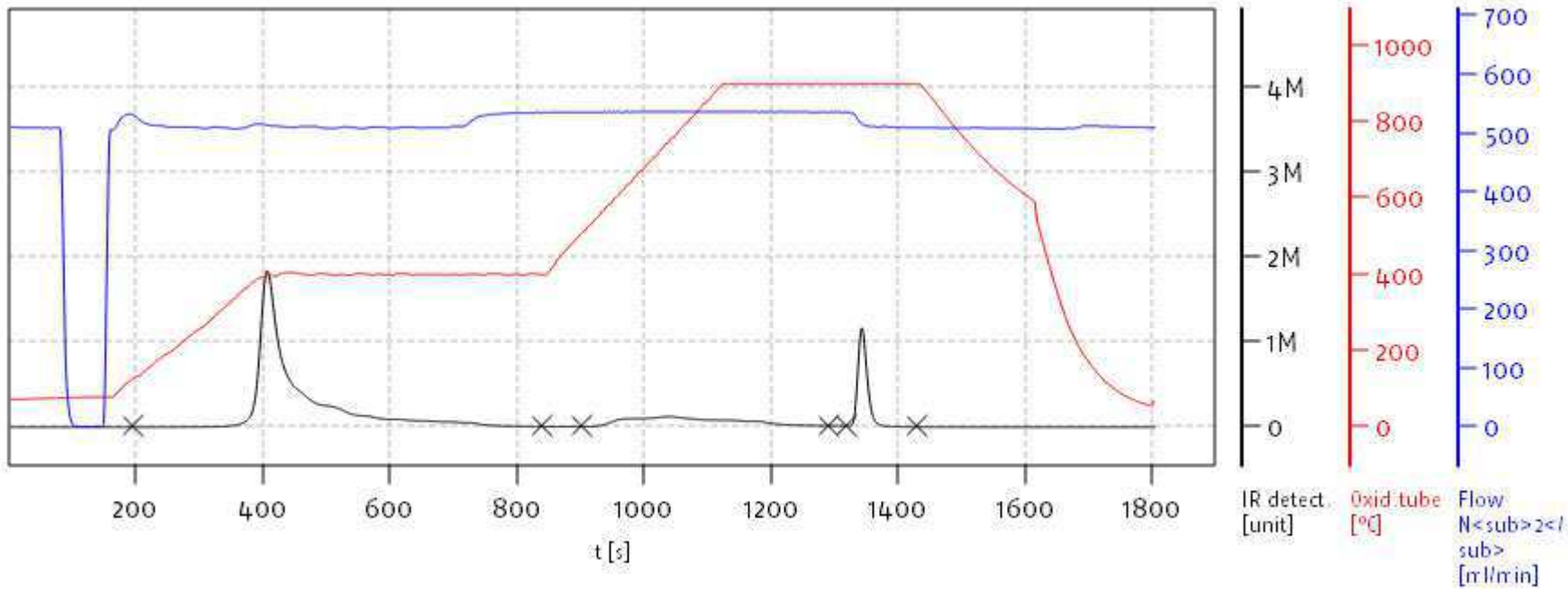
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	22L0137-55	517.70		CARBON	12/17/2022 4:57 AM	bl	1.371	4 164 520	1.652	0.220	761 987	966 010	1.151	0.281	0.9304	1.0000



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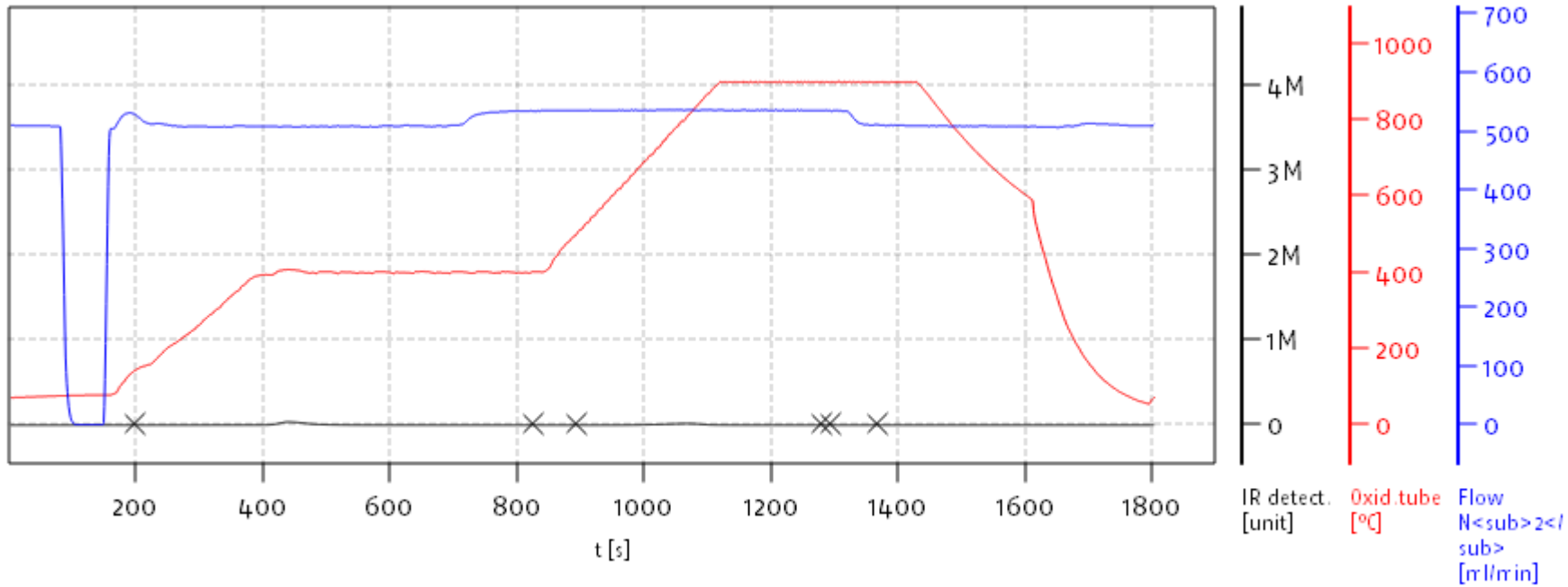
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	BKL0386-MRL1	556.30		CARBON	12/17/2022 5:27 AM	bl,C2u	0.013	78 541	0.019	0.000	158	47 997	0.013	0.006	0.9304	1.0000



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Balance: BAL3
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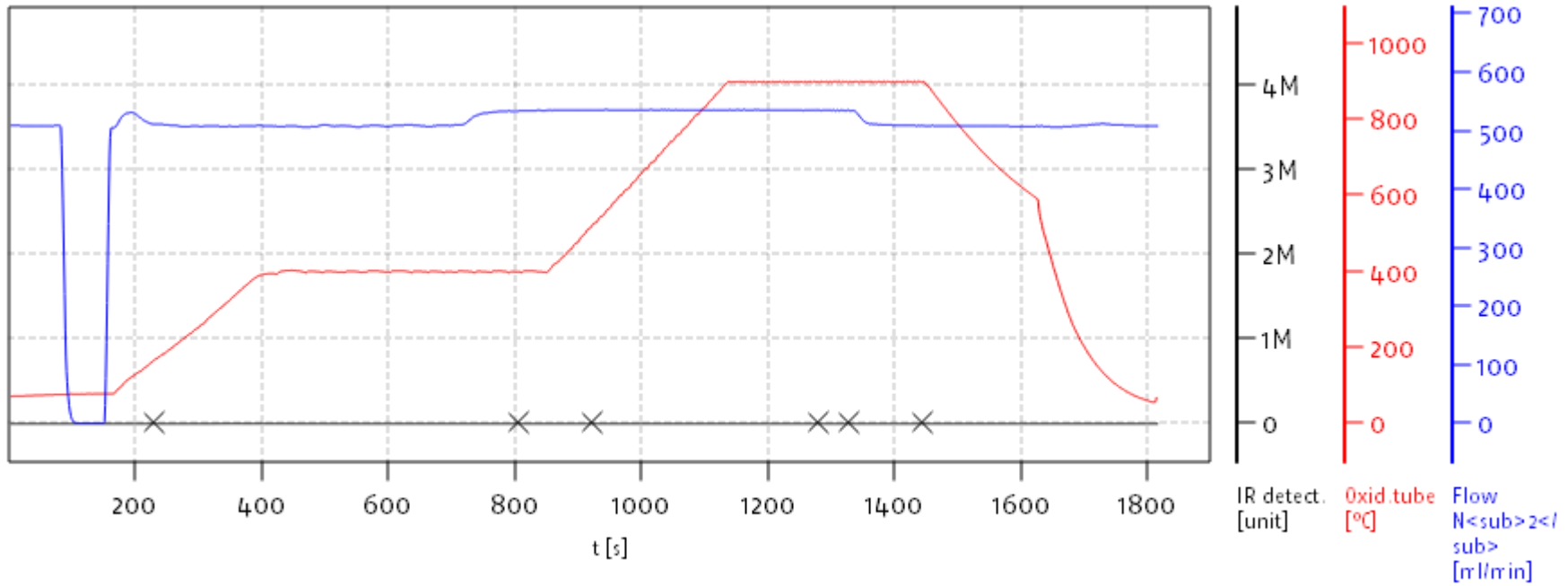
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	BKL0386-BLK1	550.40		CARBON	12/17/2022 5:58 AM	bl,C3u,C2u	0.000	7 098	0.000	0.000	242	959	0.000	0.000	0.9304	1.0000



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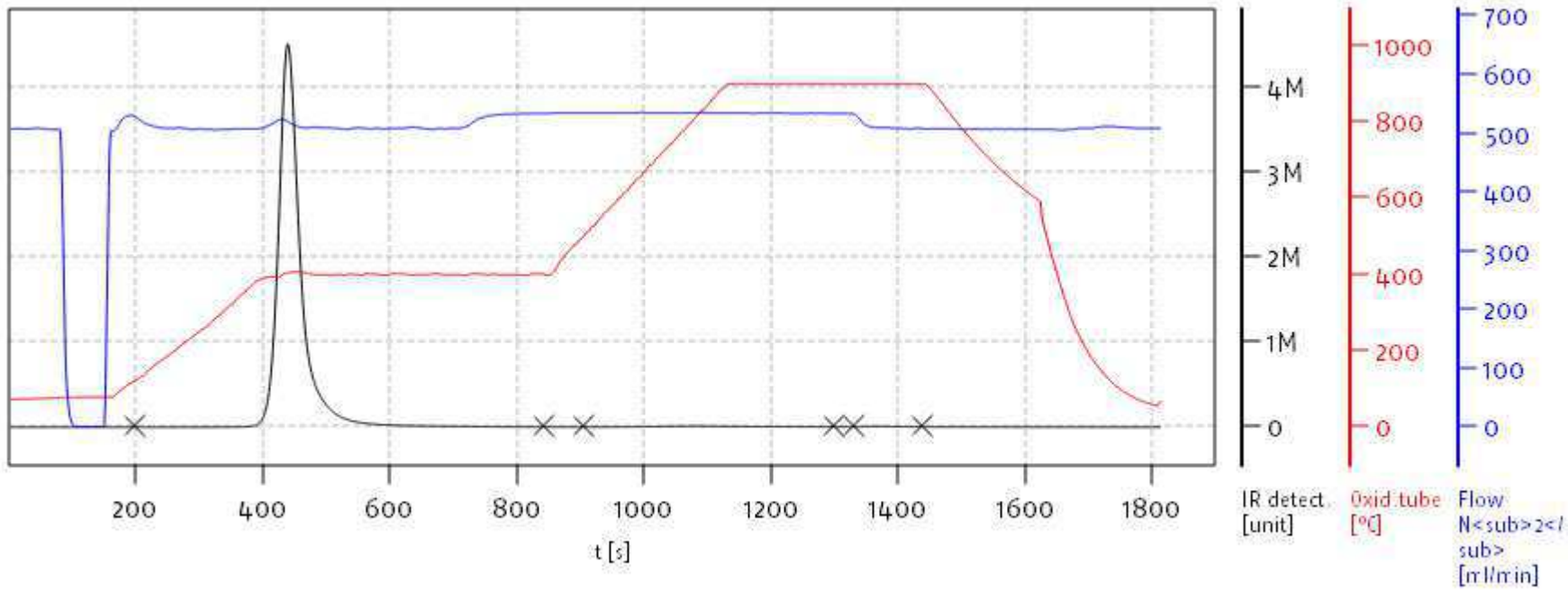
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	BKL0386-BS1	21.90		CARBON	12/17/2022 6:29 AM	bl	44.780	6 835 200	45.242	0.000	23 437	91 968	44.780	0.463	0.9304	1.0000



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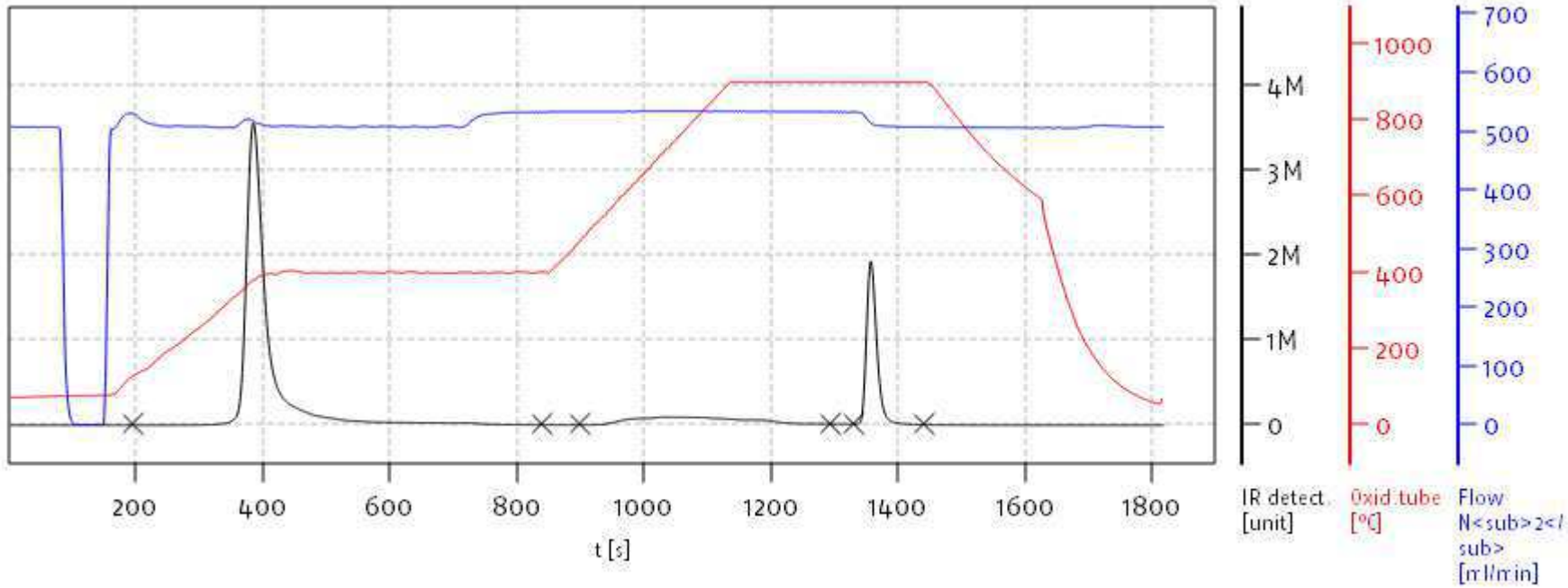
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	BKL0386-SRM1	309.60		CARBON	12/17/2022 6:59 AM	bl	2.990	5 004 870	3.378	0.674	1 374 220	803 032	2.316	0.388	0.9304	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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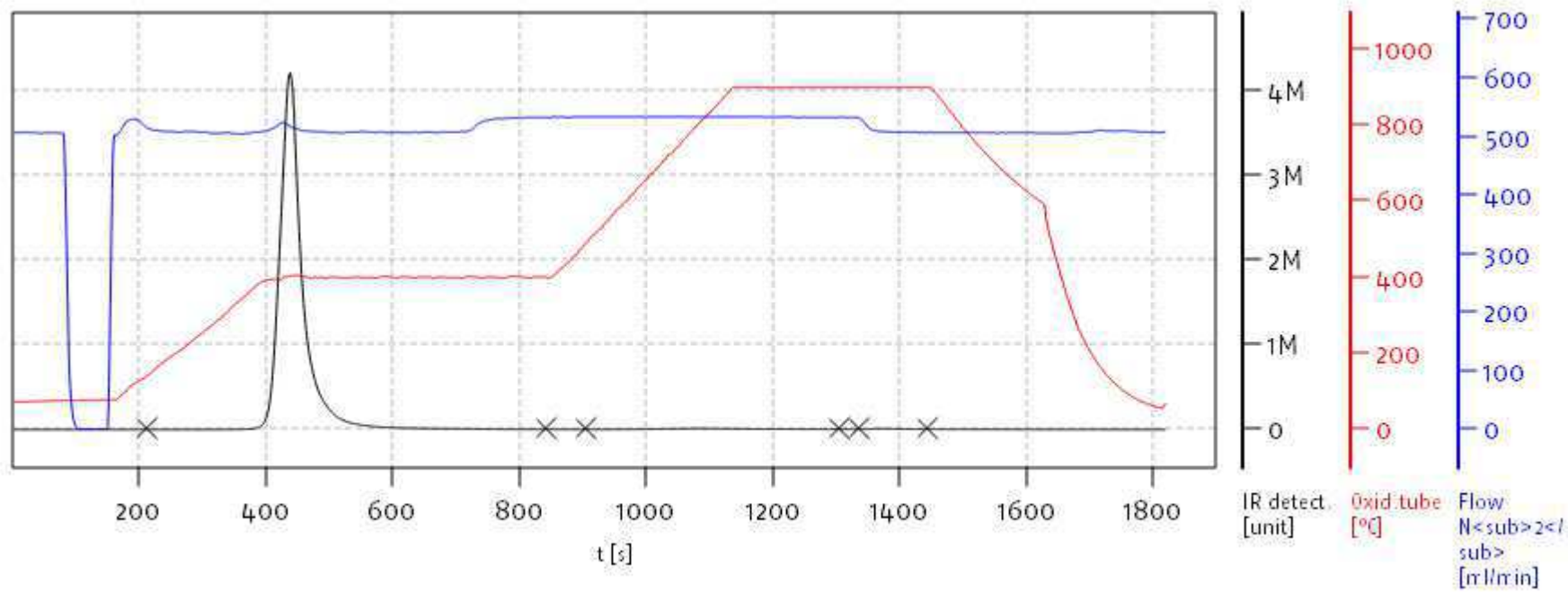
elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SKL0217-CCV3	21.00		CARBON	12/17/2022 7:30 AM	bl	44.234	6 475 480	44.712	0.002	26 816	91 418	44.232	0.478	0.9304	1.0000



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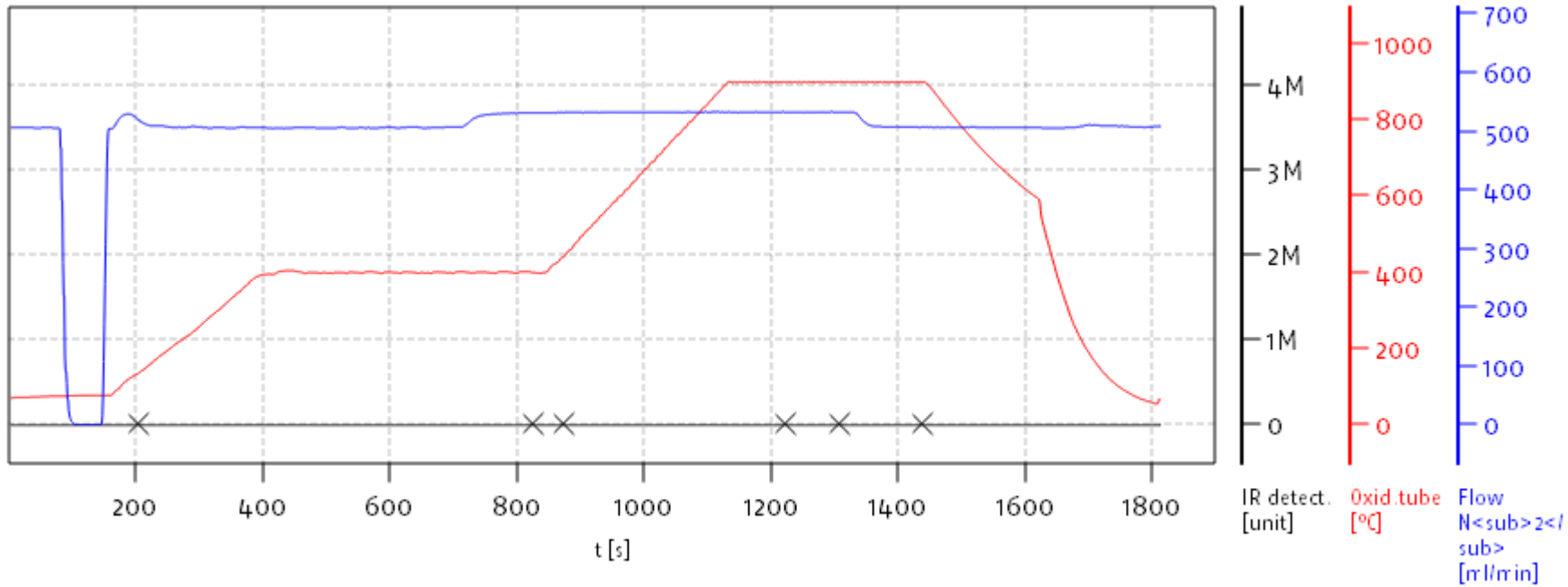
Serial No: 0300.181017
Mode CCC

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SKL0217-CCB3	539.60		CARBON	12/17/2022 8:01 AM	bl,C3u,C2u	0.000	4 041	0.000	0.000	328	1 620	0.000	0.000	0.9304	1.0000



Name:

Access: soliTOC superuser

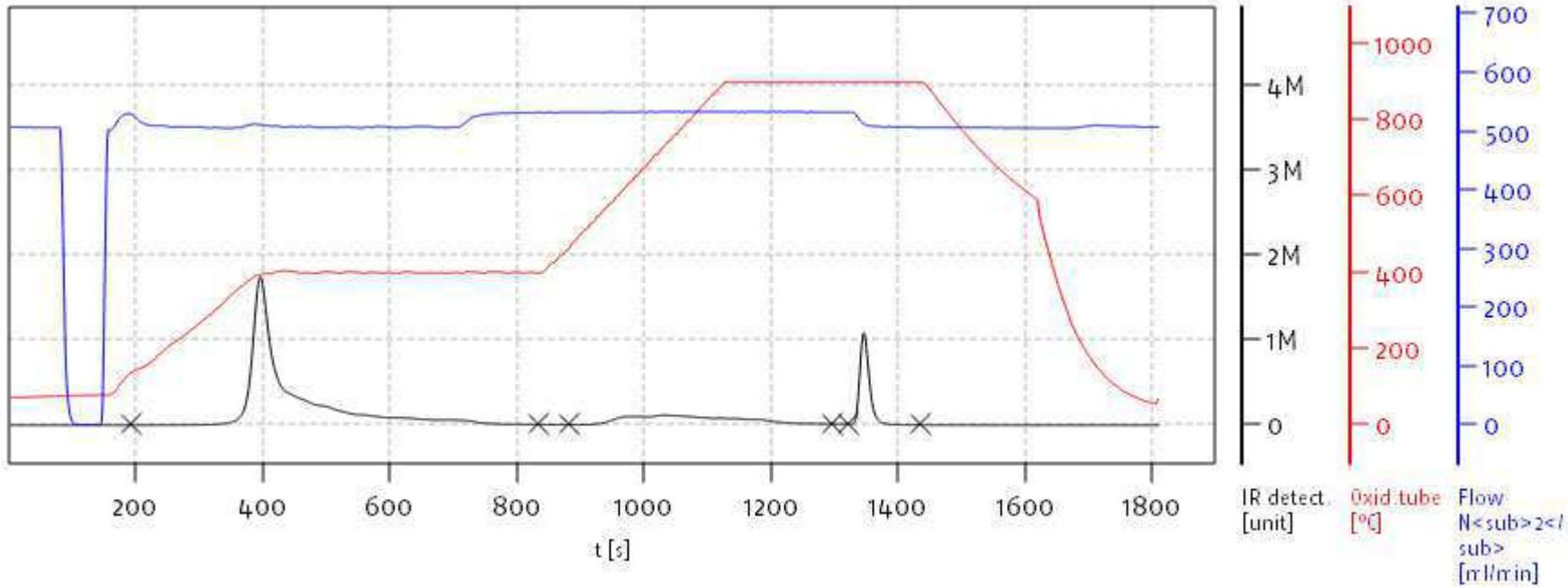
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	22L0137-56	502.10		CARBON	12/17/2022 8:31 AM	bl	1.330	3 915 680	1.619	0.214	721 581	963 218	1.116	0.289	0.9304	1.0000



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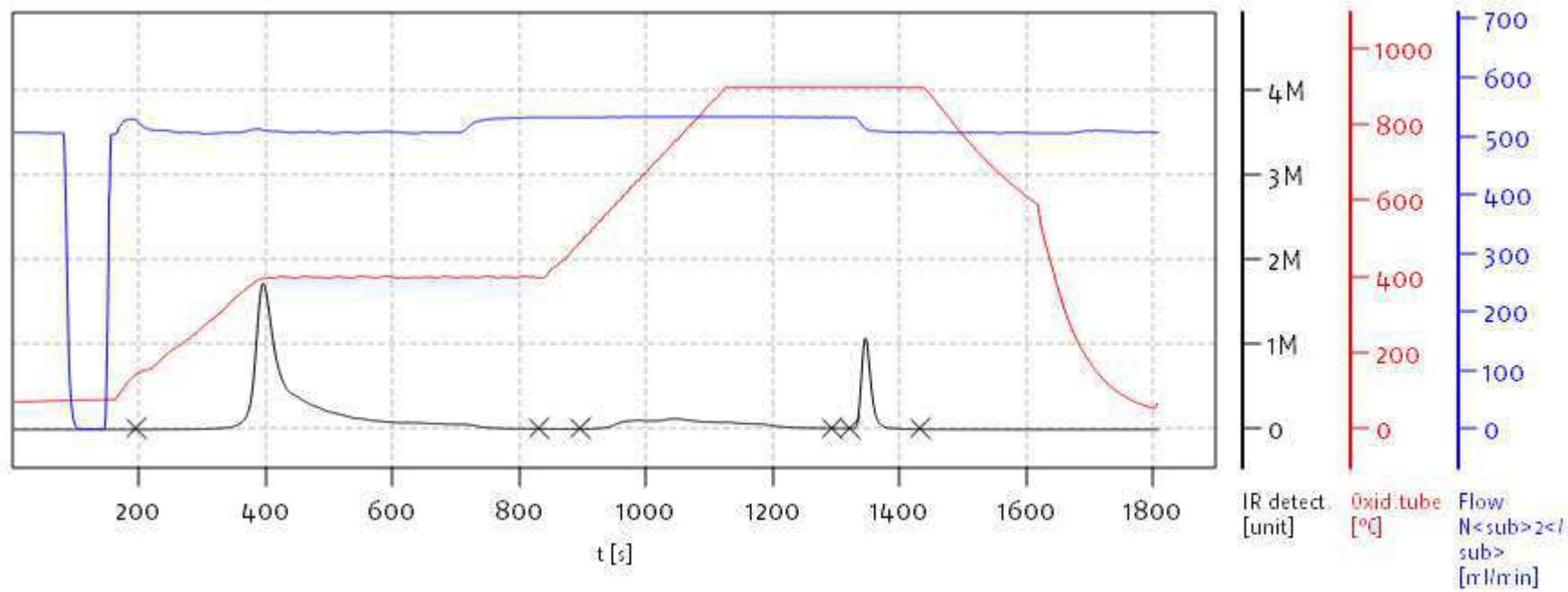
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	BKL0386-DUP1	510.90		CARBON	12/17/2022 9:02 AM	bl	1.357	4 081 220	1.646	0.214	733 899	980 242	1.143	0.289	0.9304	1.0000



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Serial No: 0300.181017
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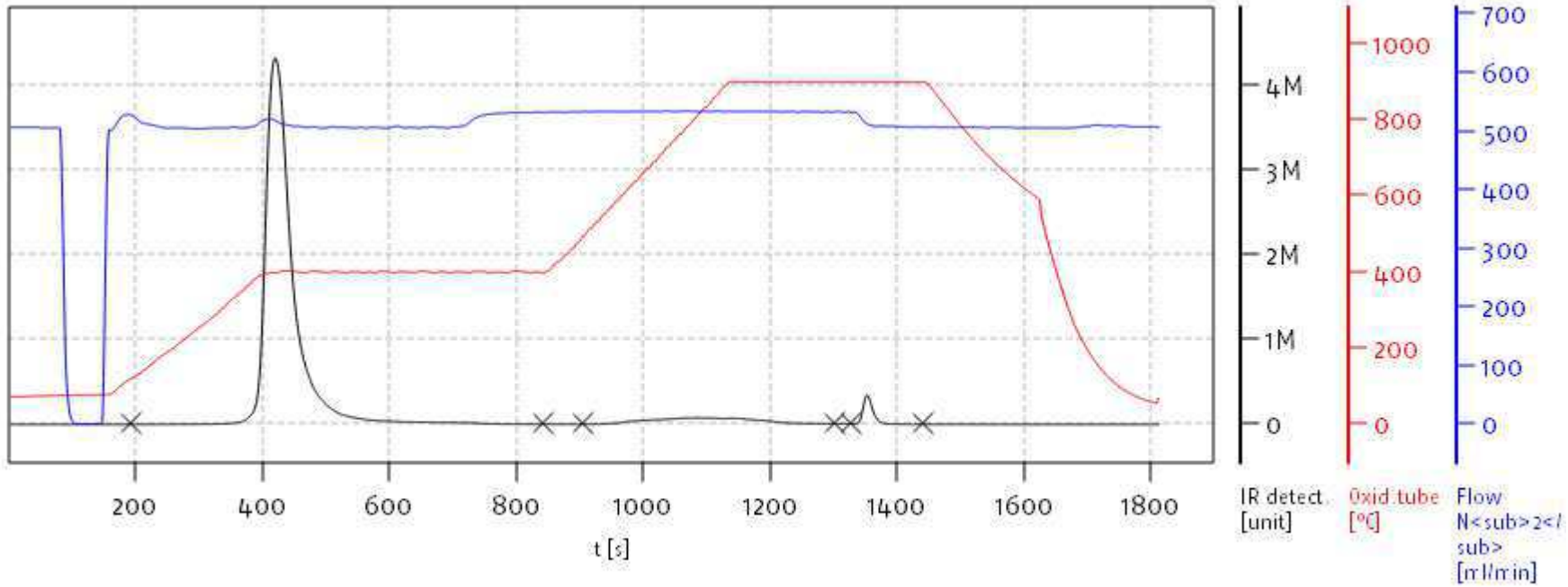
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	BKL0386-MS1	532.30	0.0082	CARBON	12/17/2022 9:32 AM	bl	2.206	7 955 870	2.377	0.061	235 497	612 496	2.146	0.170	0.9304	1.0000



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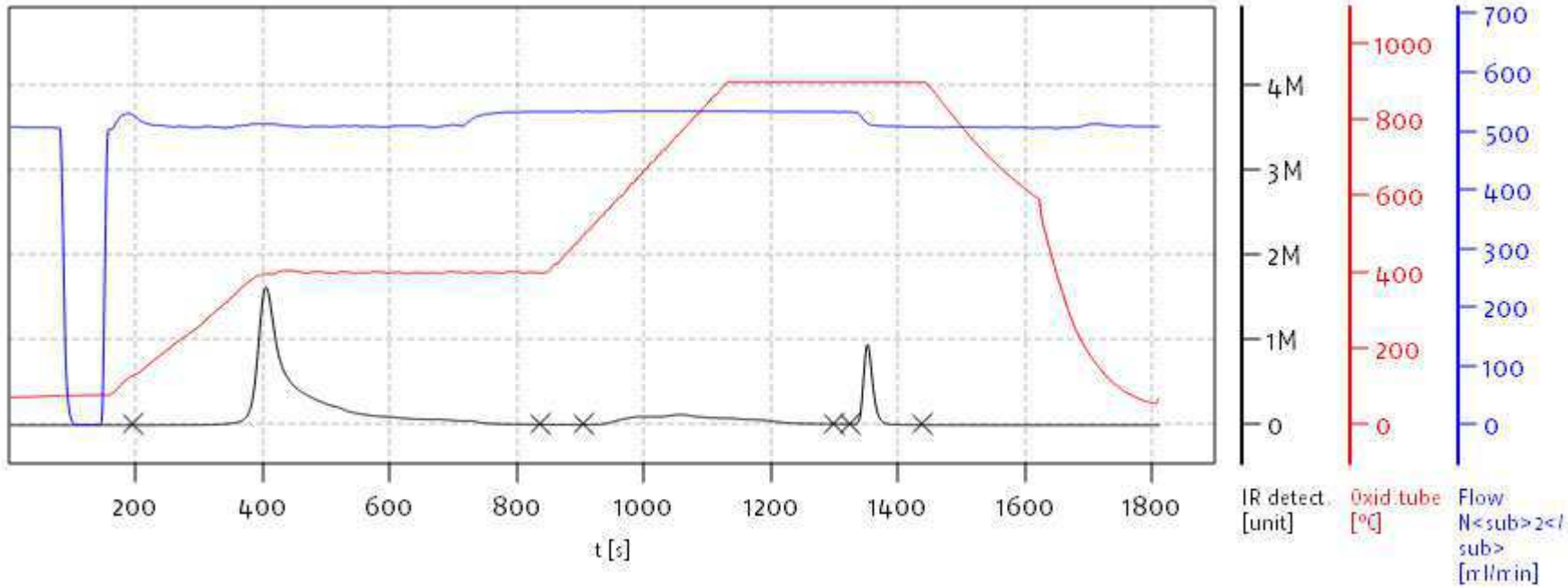
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	22L0137-57	513.00		CARBON	12/17/2022 10:03 AM	bl	1.307	4 043 250	1.579	0.180	621 822	927 707	1.128	0.272	0.9304	1.0000



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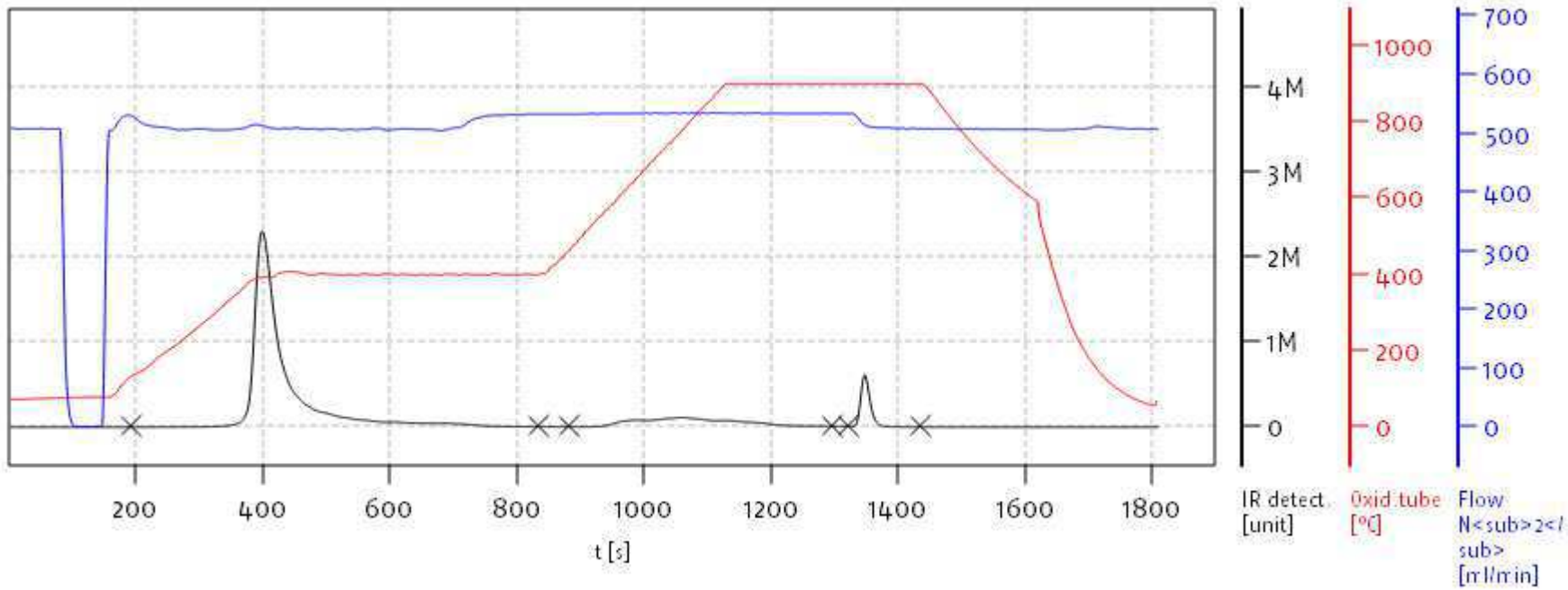
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	22L0137-58	513.60		CARBON	12/17/2022 10:34 AM	bl	1.363	4 484 360	1.600	0.113	401 110	812 730	1.250	0.237	0.9304	1.0000



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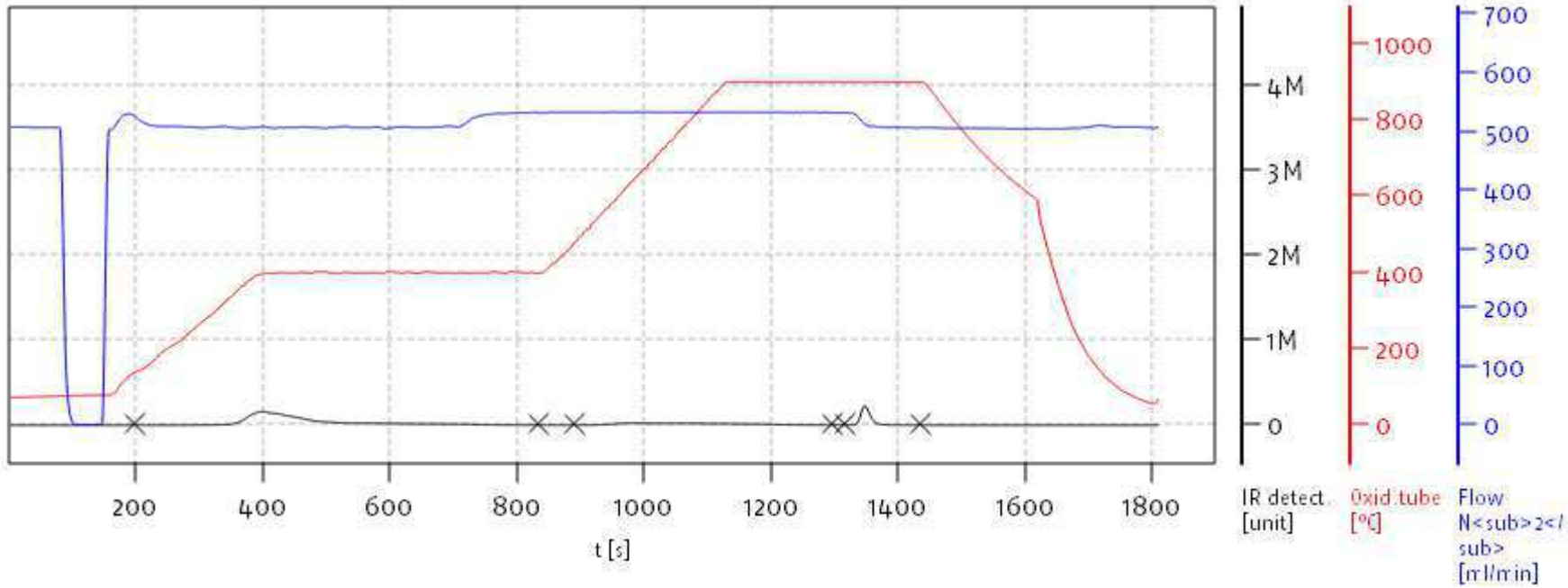
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	22L0137-59	155.60		CARBON	12/17/2022 11:04 AM	bl	0.761	713 922	0.928	0.124	151 521	195 089	0.636	0.168	0.9304	1.0000



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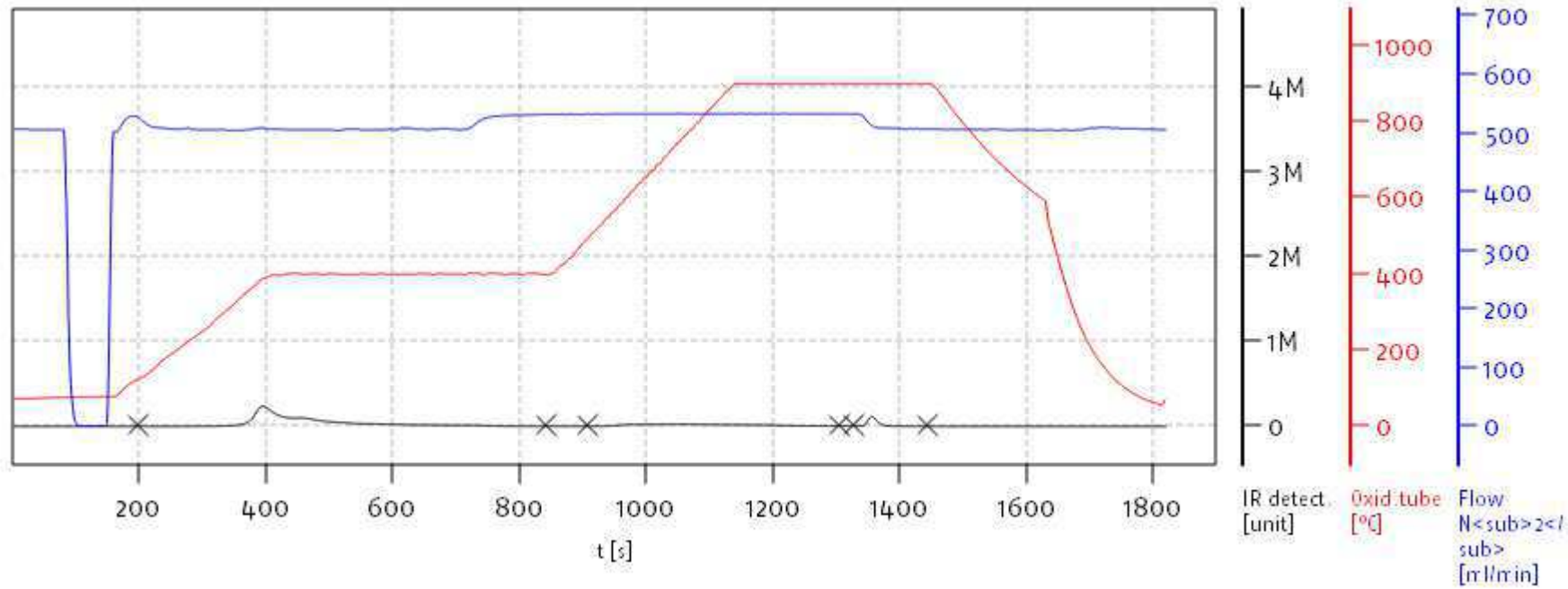
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	22L0137-60	153.60		CARBON	12/17/2022 11:35 AM	bl	0.810	831 164	1.010	0.056	81 891	224 553	0.755	0.200	0.9304	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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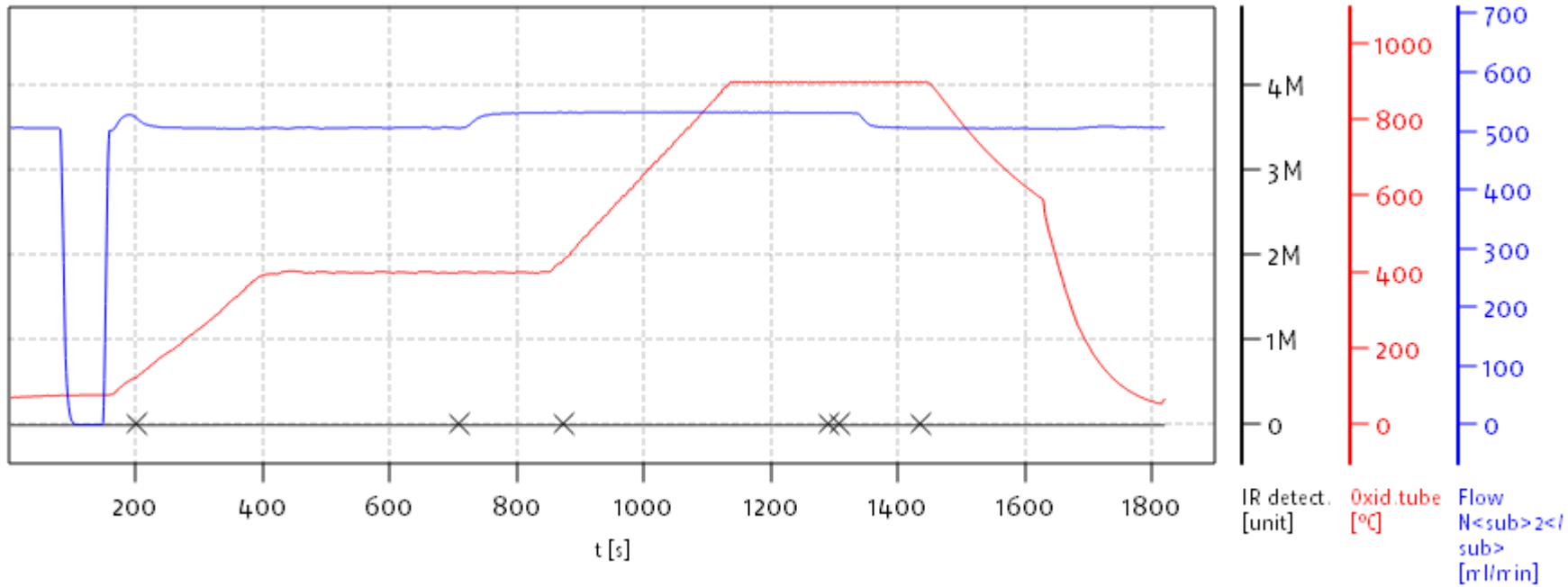
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	12/17/2022 12:06 PM	bl	0.000	6 316	0.000	0.000	167	474	0.000	0.000	0.9304	1.0000



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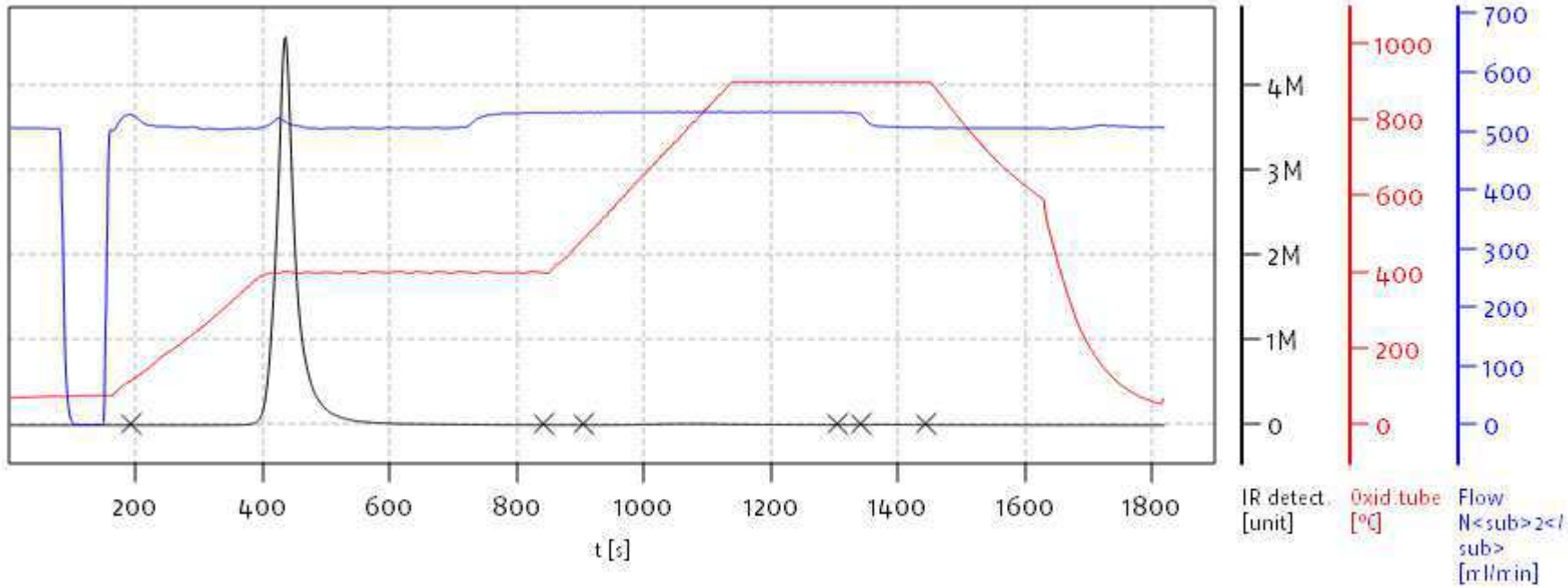
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	20.00		CARBON	12/17/2022 12:36 PM	bl	44.446	6 225 820	45.086	0.000	19 678	109 236	44.446	0.640	0.9263	1.0000



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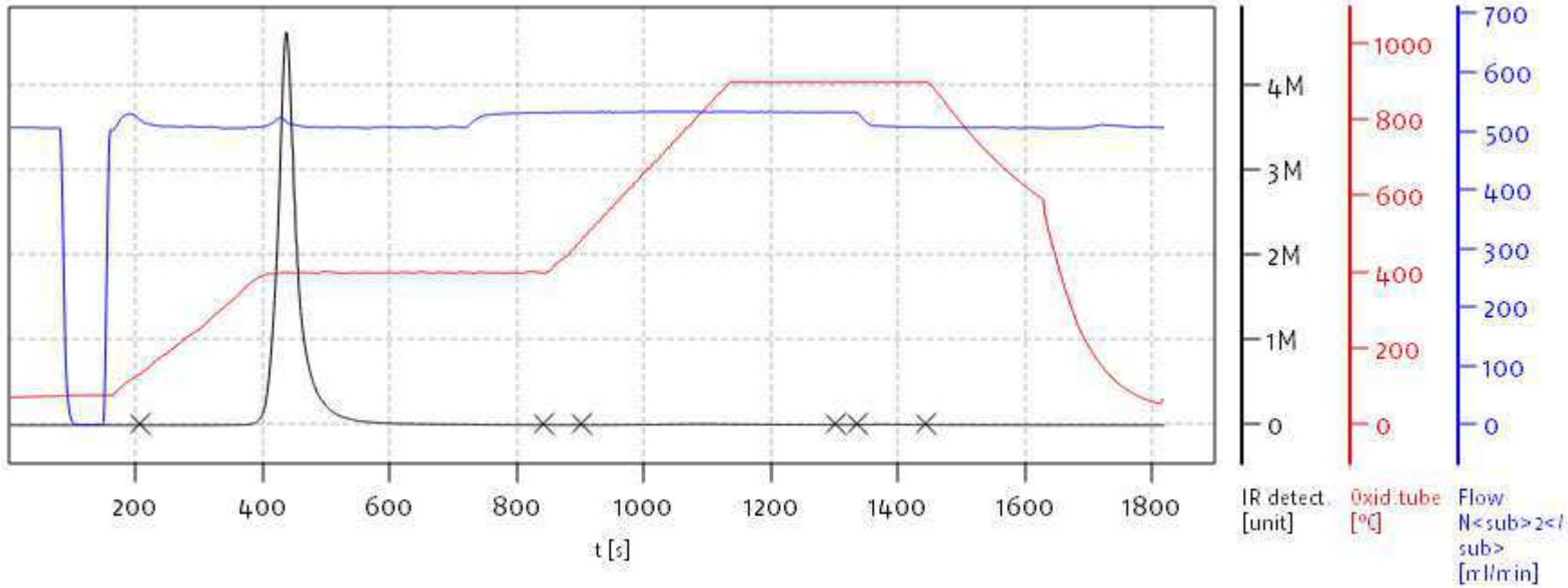
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	20.70		CARBON	12/17/2022 1:07 PM	bl	44.446	6 442 430	44.976	0.000	22 795	97 508	44.446	0.531	0.9263	1.0000



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Balance: BAL3
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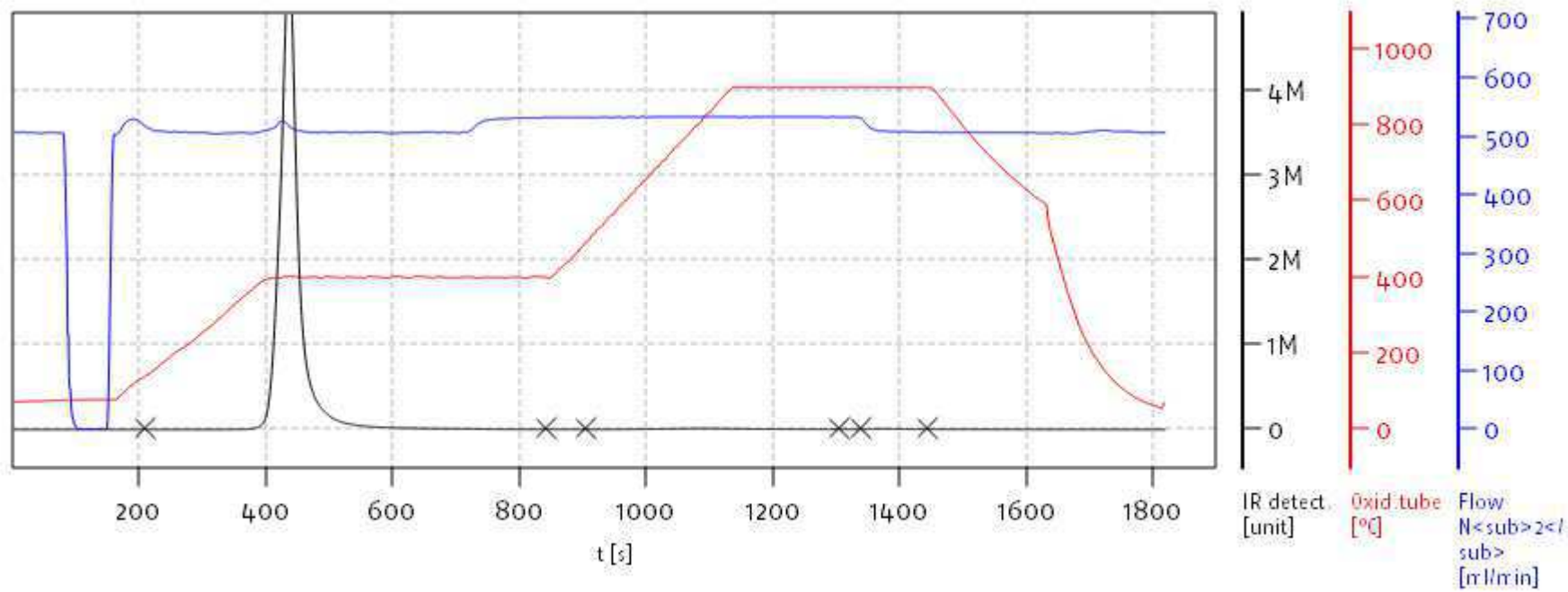
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SKL0217-CCV4	21.90		CARBON	12/17/2022 1:38 PM	bl	44.959	6 893 040	45.411	0.000	22 747	90 461	44.959	0.452	0.9263	1.0000



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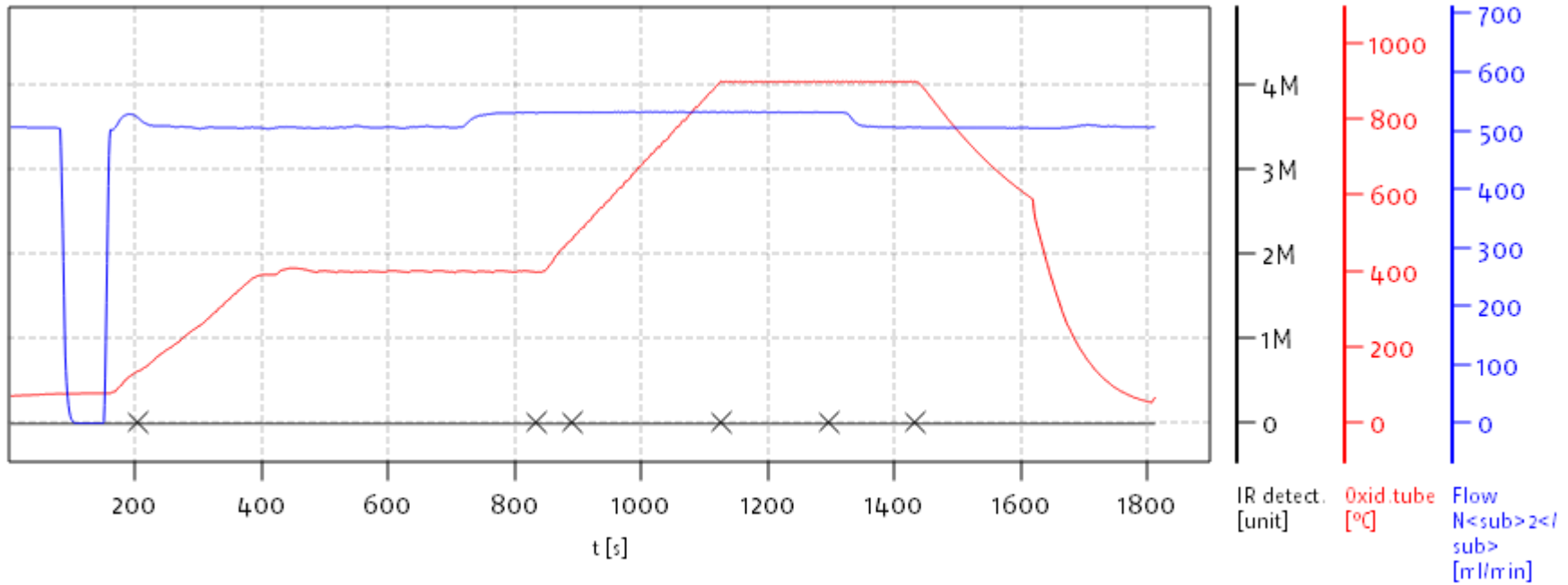
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SKL0217-CCB4	500.30		CARBON	12/17/2022 2:08 PM	bl,C3u,C2u	0.000	4 195	0.000	0.000	482	400	0.000	0.000	0.9263	1.0000



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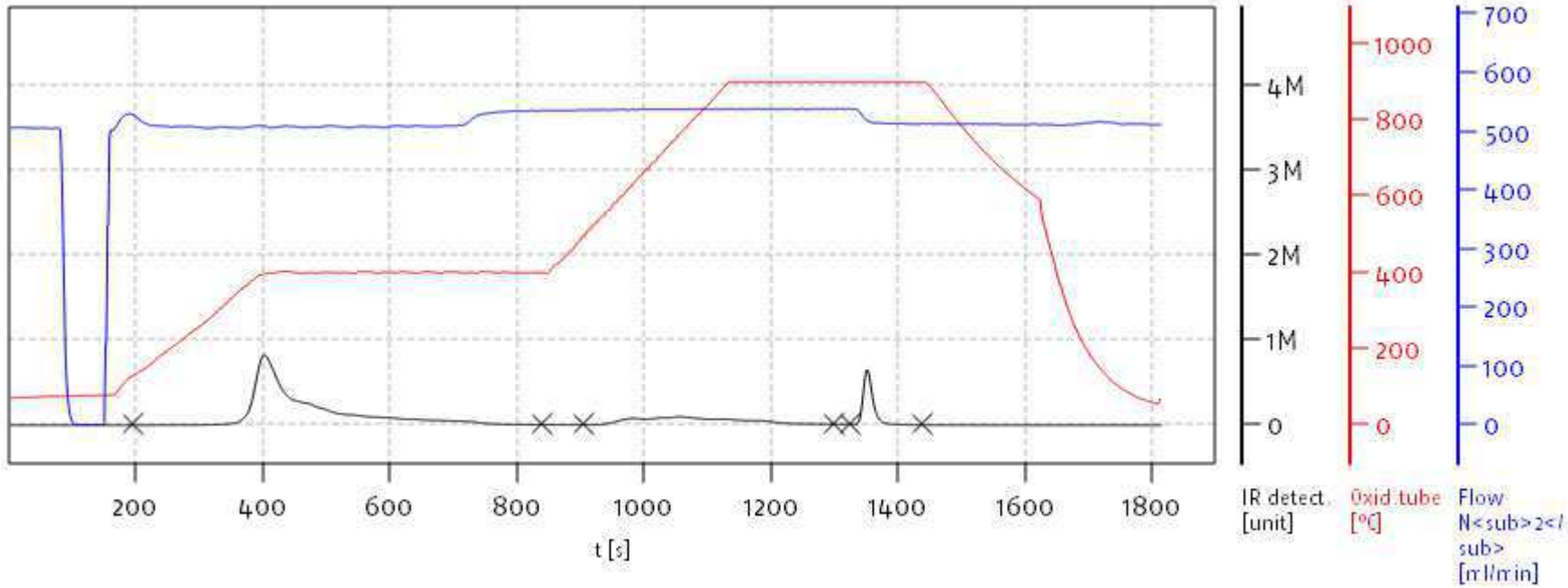
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	22L0137-61	530.30		CARBON	12/17/2022 2:39 PM	bl	0.852	2 730 290	1.064	0.121	442 041	750 746	0.731	0.211	0.9263	1.0000



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Balance: BAL3
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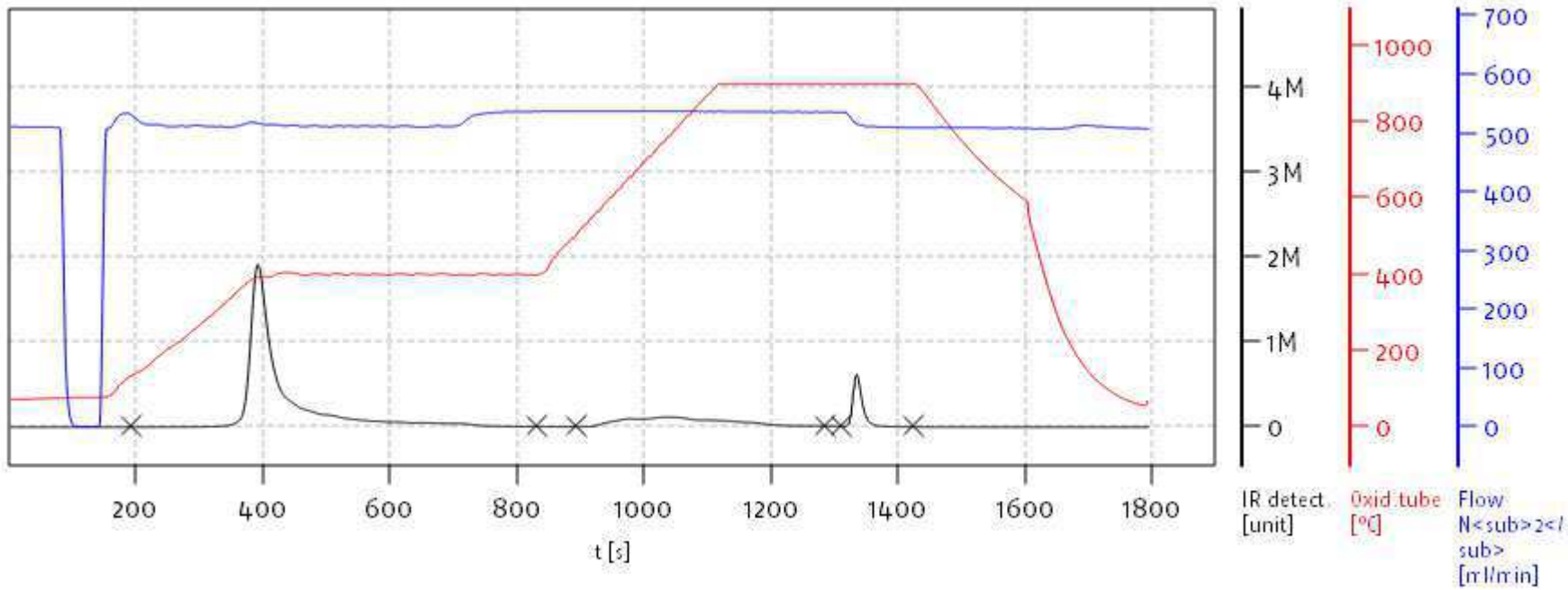
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	22L0137-62	524.40		CARBON	12/17/2022 3:09 PM	bl	1.115	3 692 440	1.367	0.113	407 967	881 195	1.002	0.252	0.9263	1.0000



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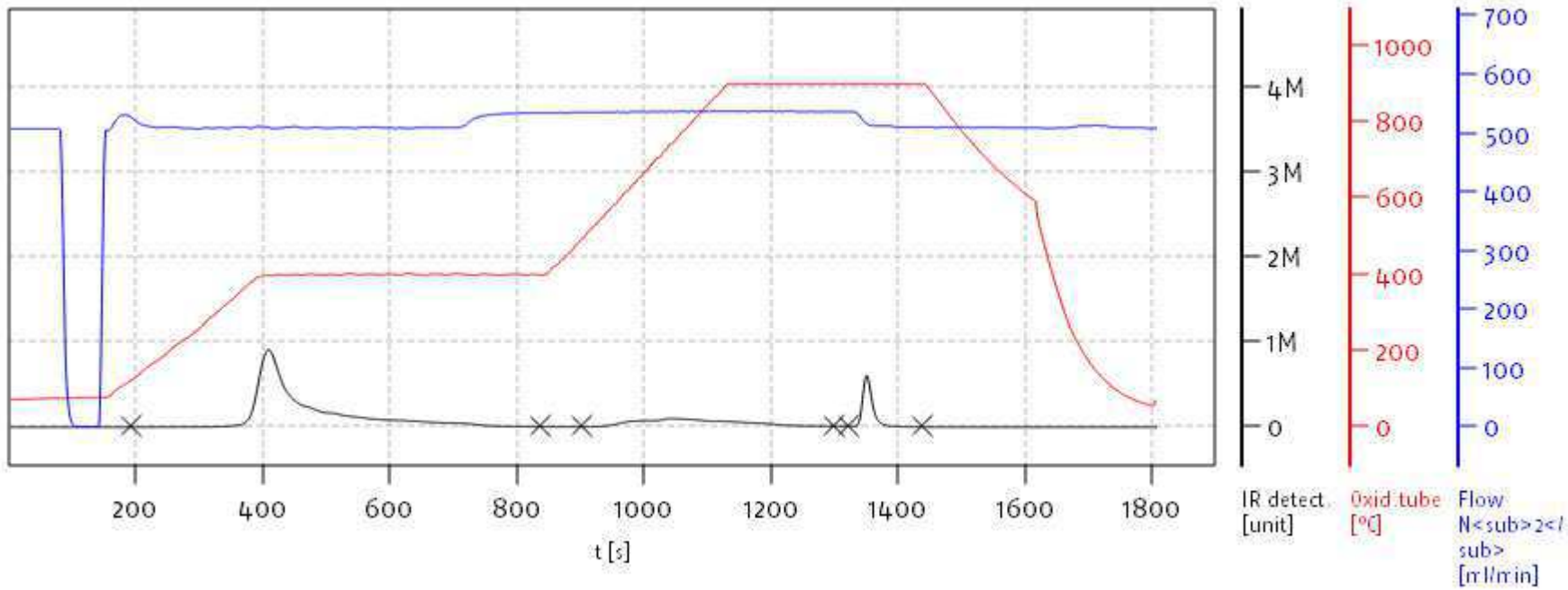
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	22L0137-63	525.90		CARBON	12/17/2022 3:40 PM	bl	0.862	2 773 120	1.070	0.113	411 815	733 204	0.749	0.208	0.9263	1.0000



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Balance: BAL3
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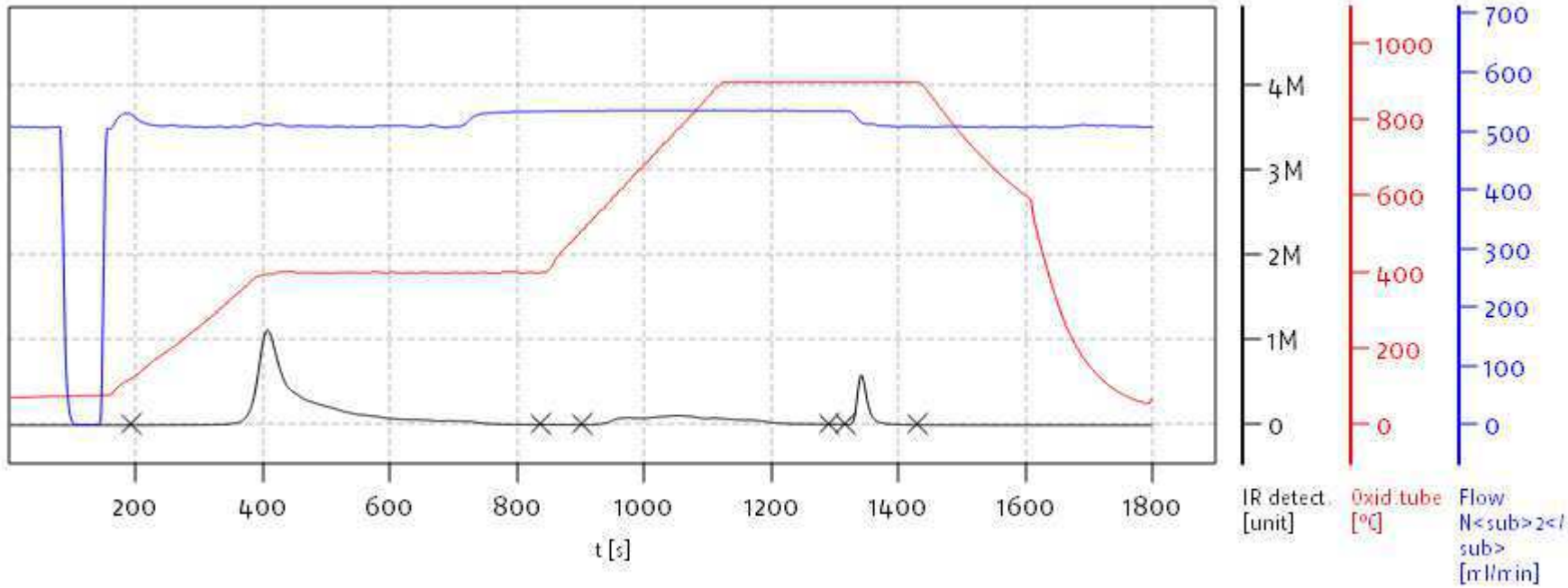
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	22L0137-64	534.50		CARBON	12/17/2022 4:10 PM	bl	0.979	3 241 530	1.214	0.116	427 563	840 653	0.863	0.236	0.9263	1.0000



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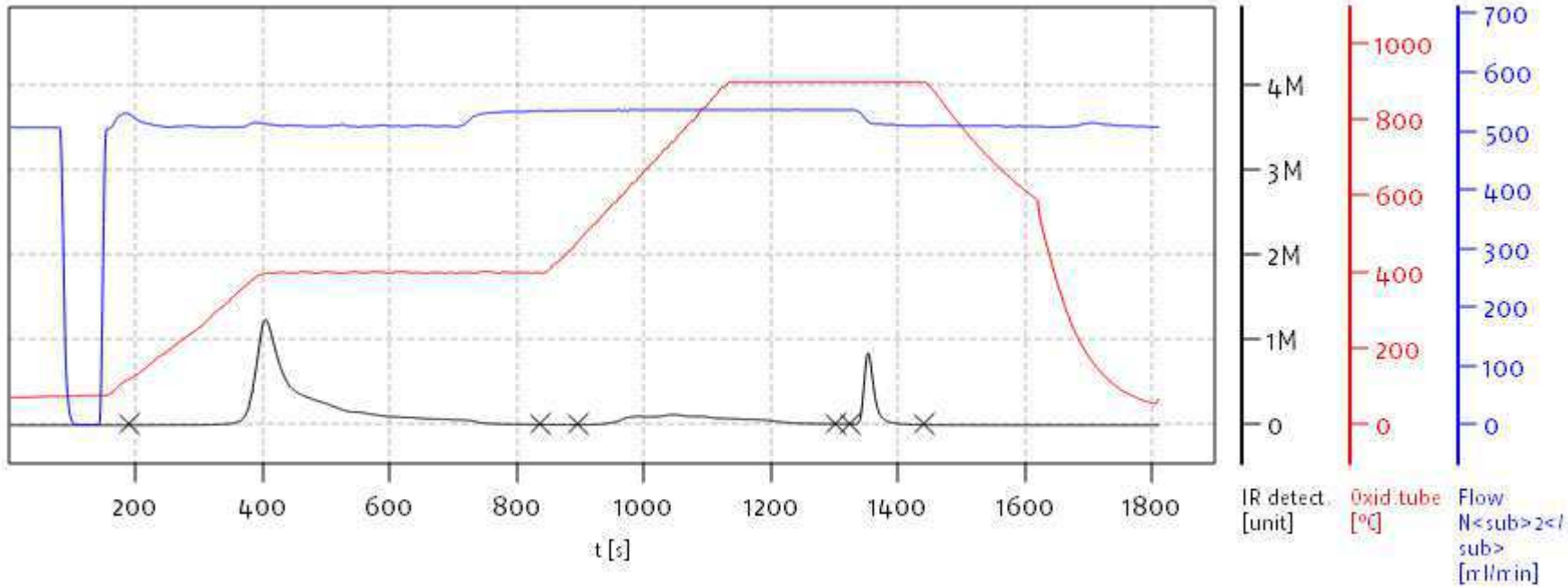
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	22L0137-65	521.00		CARBON	12/17/2022 4:41 PM	bl	1.210	3 780 470	1.481	0.177	620 711	938 190	1.033	0.271	0.9263	1.0000



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Balance: BAL3
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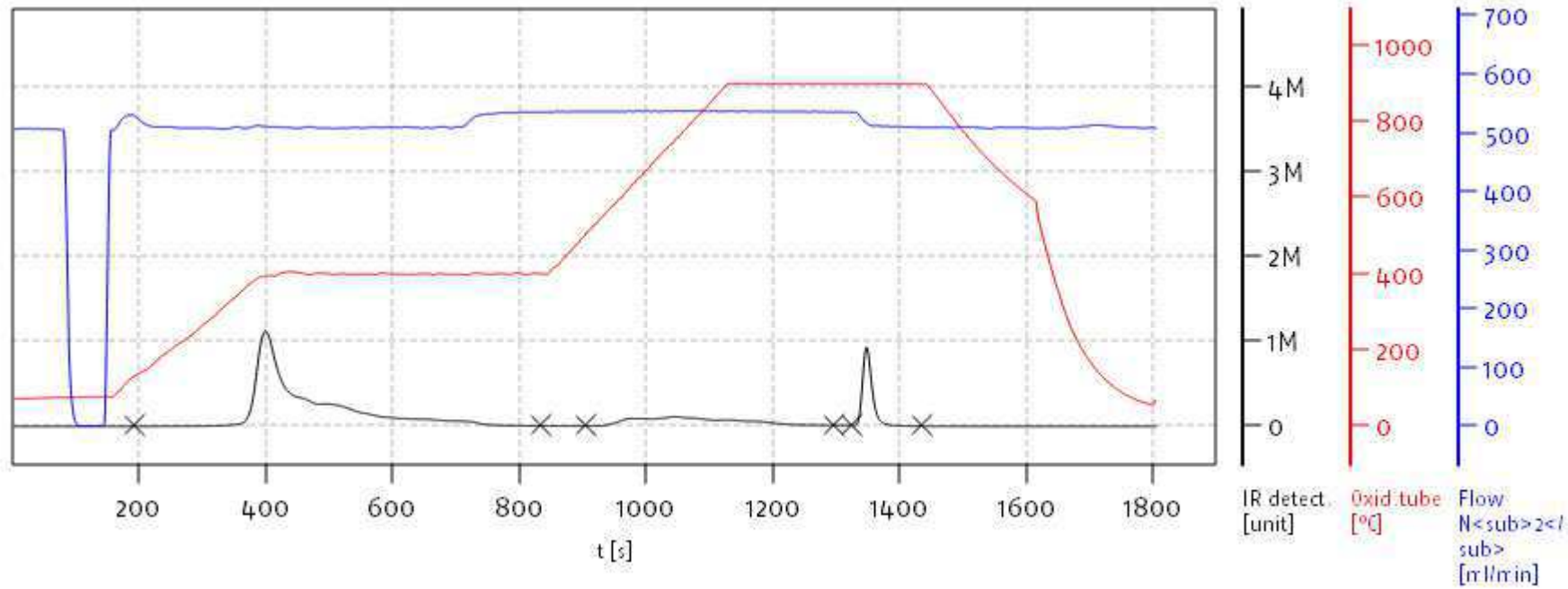
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	22L0137-66	518.80		CARBON	12/17/2022 5:11 PM	bl	1.149	3 538 950	1.396	0.179	625 191	853 977	0.971	0.247	0.9263	1.0000



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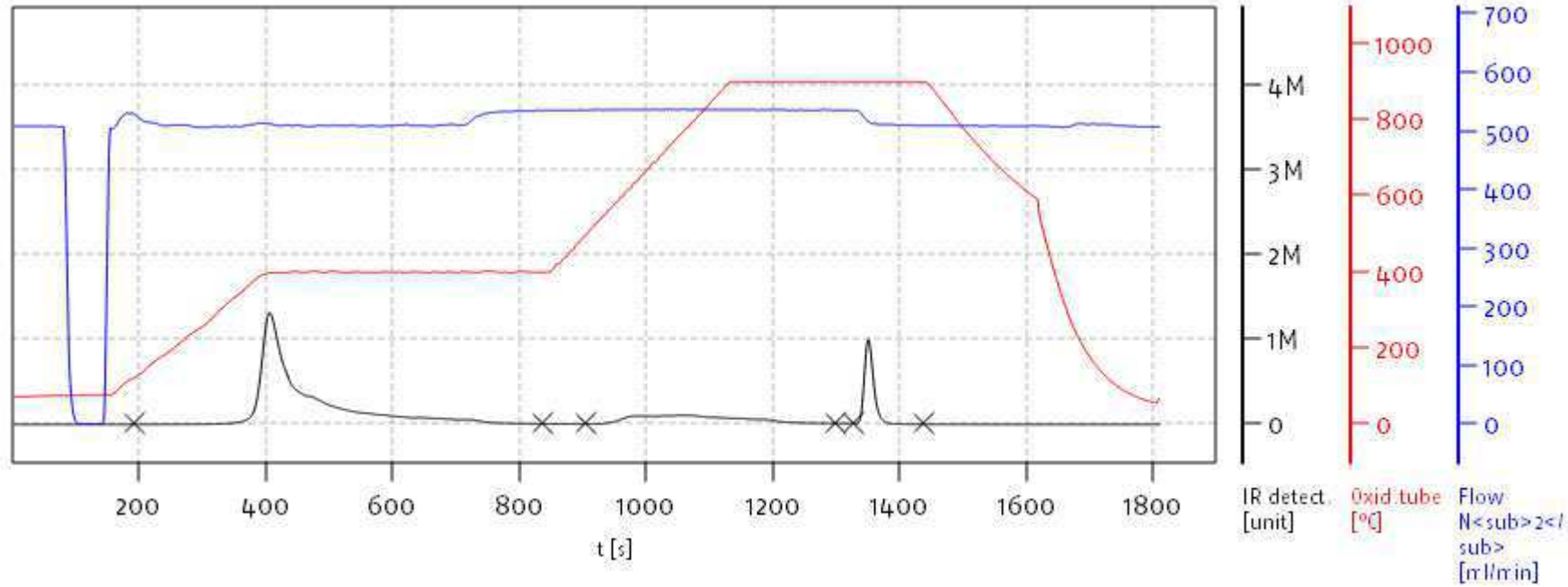
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	22L0137-67	509.30		CARBON	12/17/2022 5:42 PM	bl	1.195	3 597 610	1.456	0.189	649 618	884 798	1.005	0.261	0.9263	1.0000



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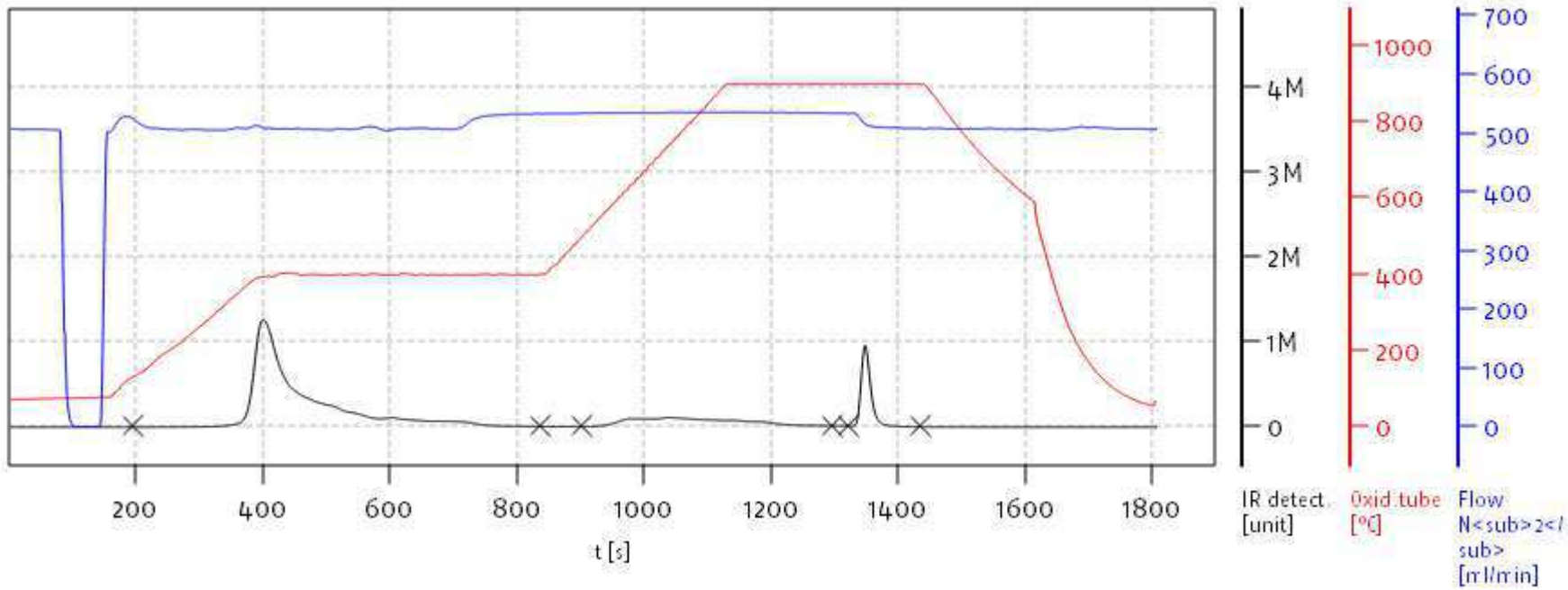
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	22L0137-68	506.20		CARBON	12/17/2022 6:12 PM	bl	1.303	3 953 220	1.577	0.191	650 444	920 580	1.112	0.273	0.9263	1.0000



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Serial No: 0300.181017
Mode CCC

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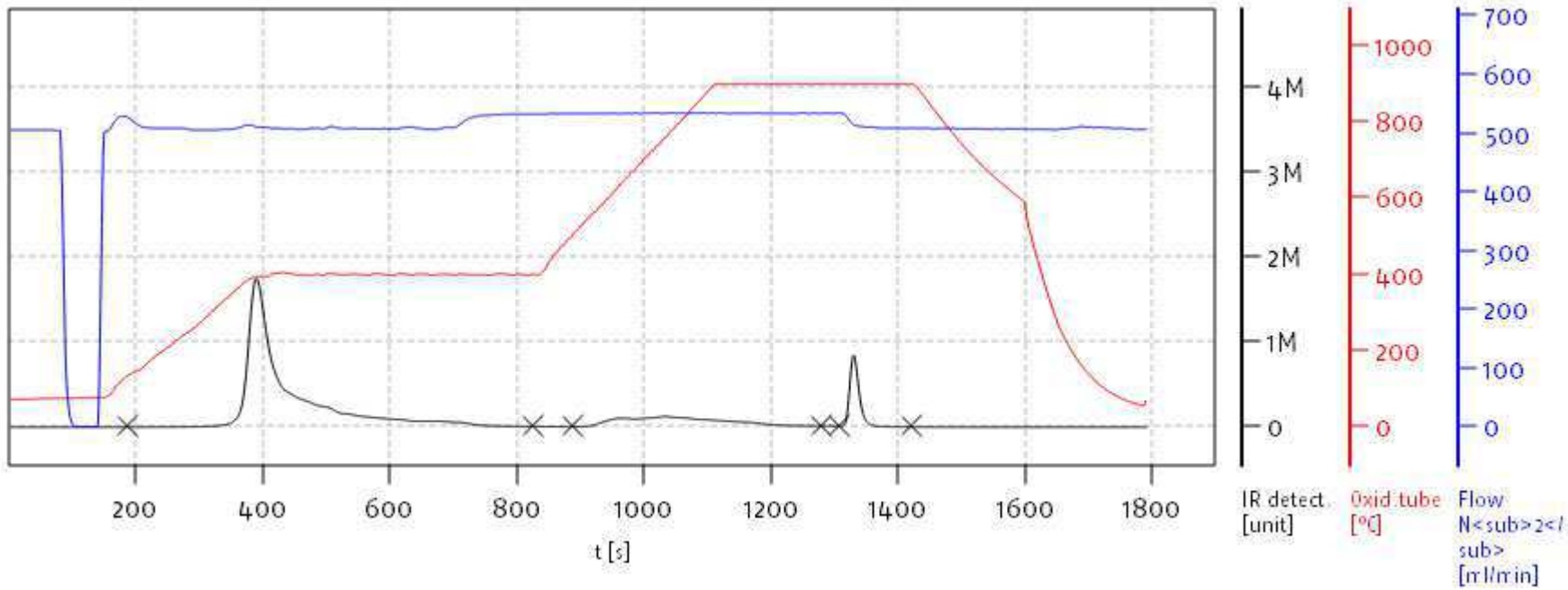
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	22L0137-69	525.50		CARBON	12/17/2022 6:43 PM	bl	1.328	4 321 100	1.599	0.156	556 453	945 045	1.172	0.271	0.9263	1.0000



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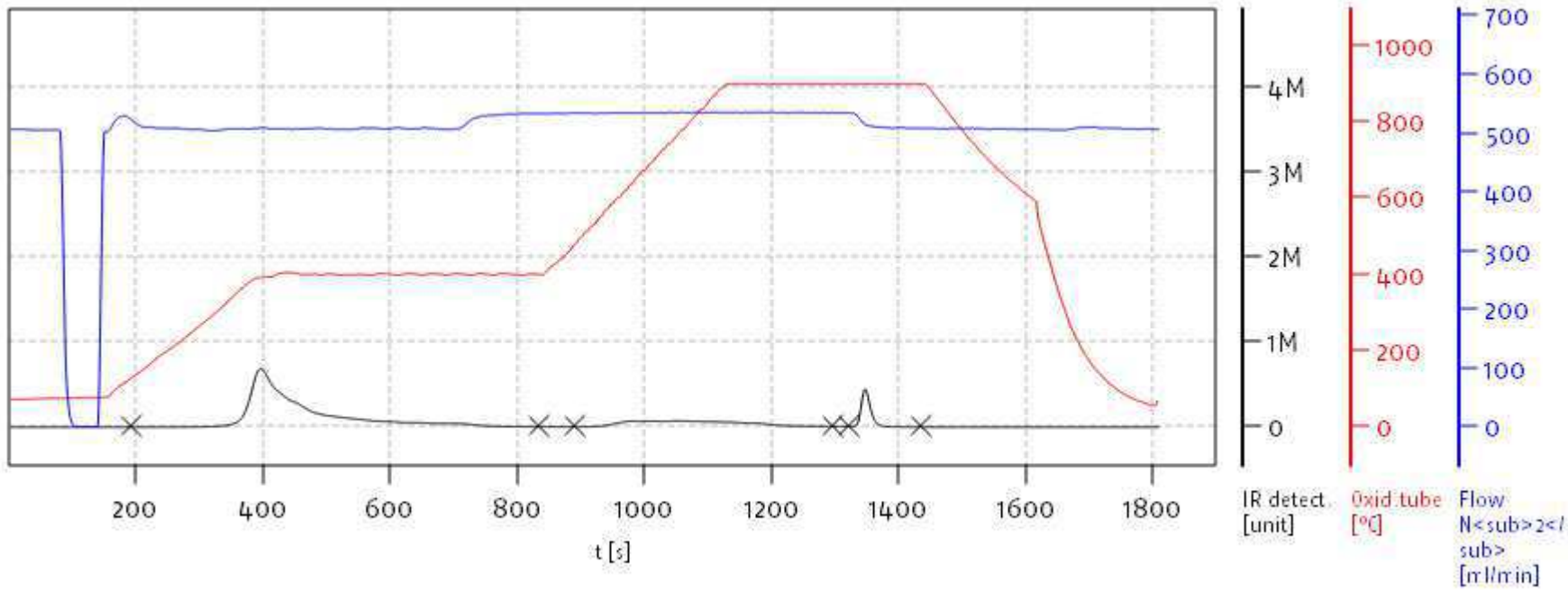
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	22L0155-01	518.60		CARBON	12/17/2022 7:13 PM	bl	0.743	2 427 300	0.925	0.079	291 226	637 882	0.664	0.182	0.9263	1.0000



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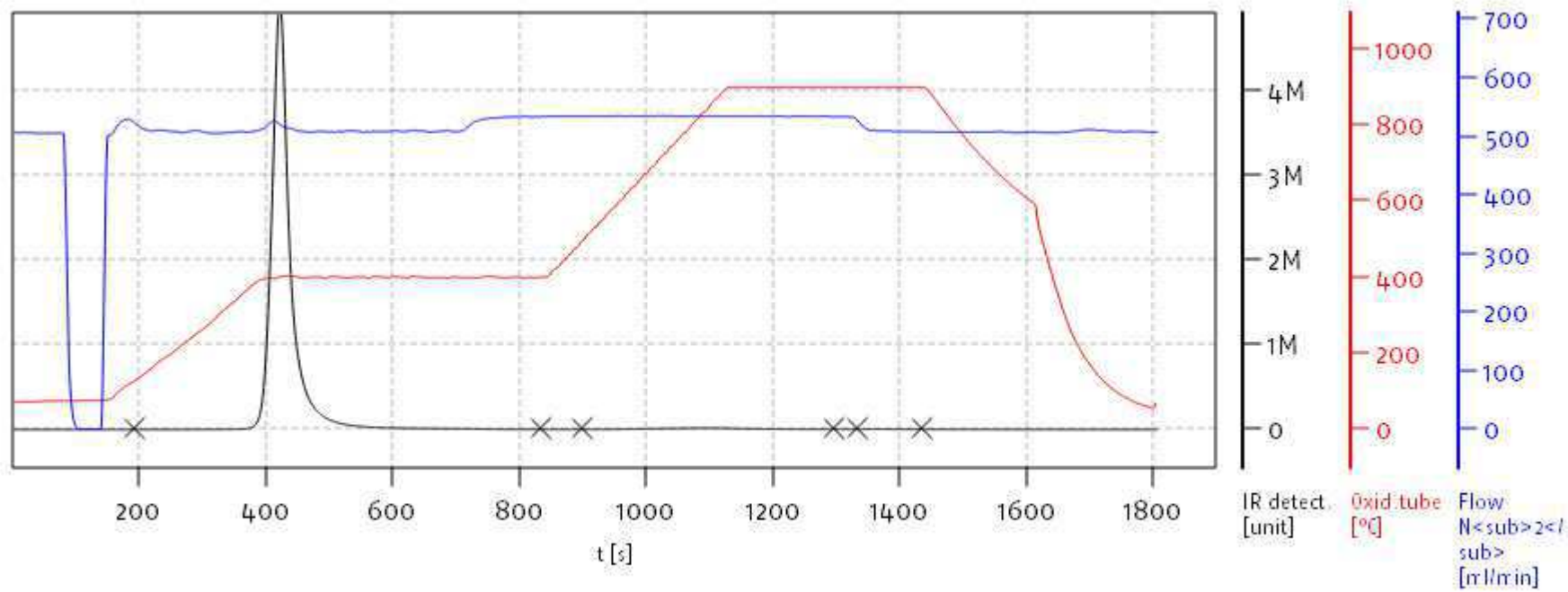
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SKL0217-CCV5	20.70		CARBON	12/17/2022 7:44 PM	bl	44.500	6 450 530	45.191	0.000	15 008	118 845	44.500	0.690	0.9263	1.0000



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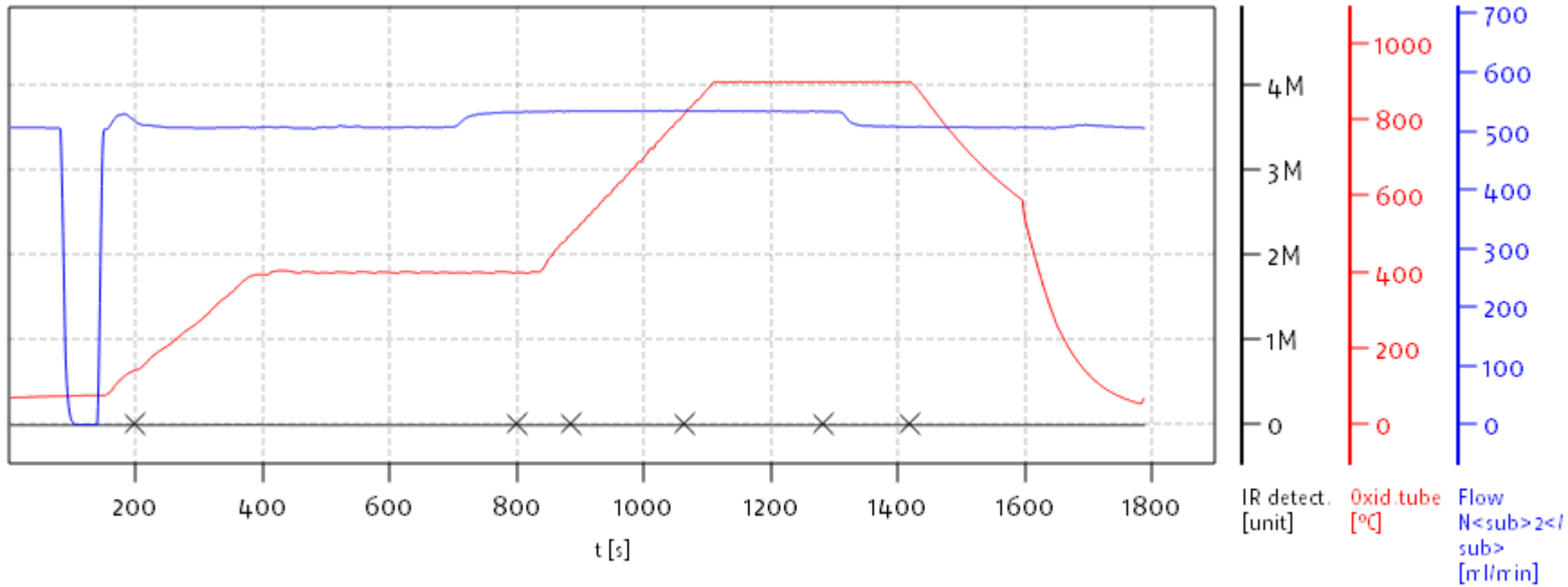
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SKL0217-CCB5	519.20		CARBON	12/17/2022 8:14 PM	bl,C3u,C2u	0.000	9 330	0.000	0.000	366	20	0.000	0.000	0.9263	1.0000



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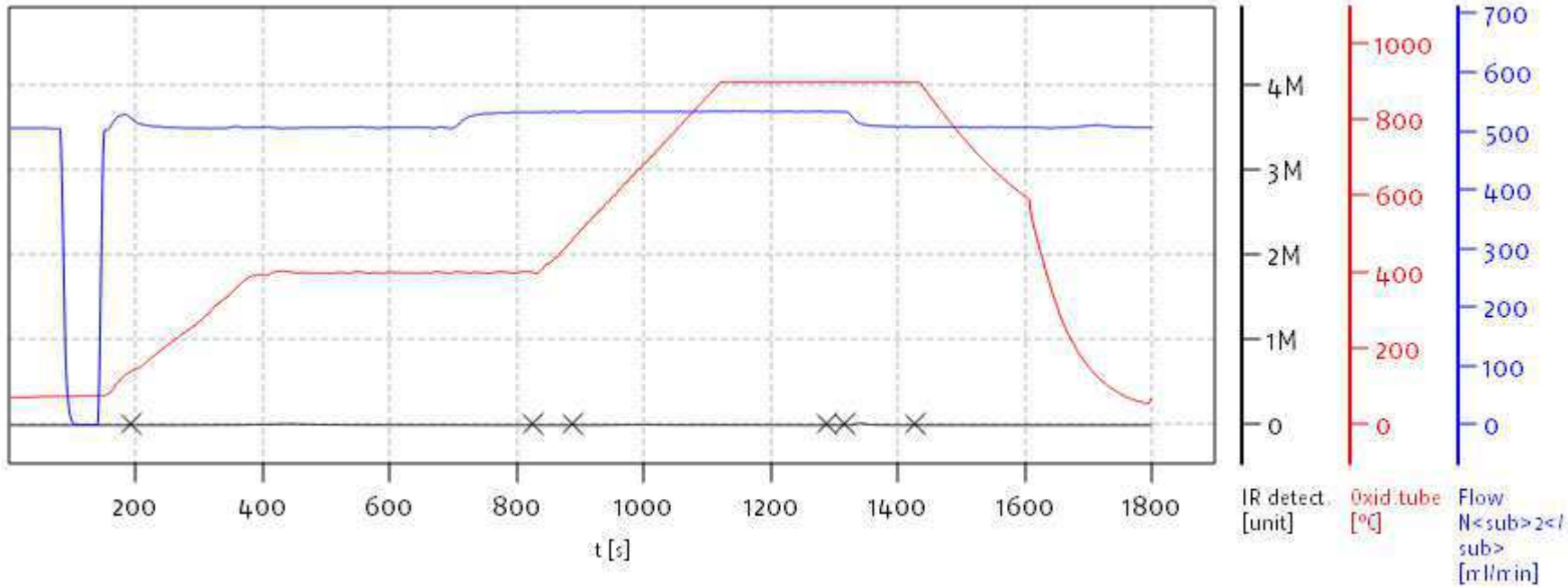
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	22L0155-02	510.00		CARBON	12/17/2022 8:44 PM	bl	0.012	70 711	0.014	0.000	18 208	33 244	0.012	0.002	0.9263	1.0000



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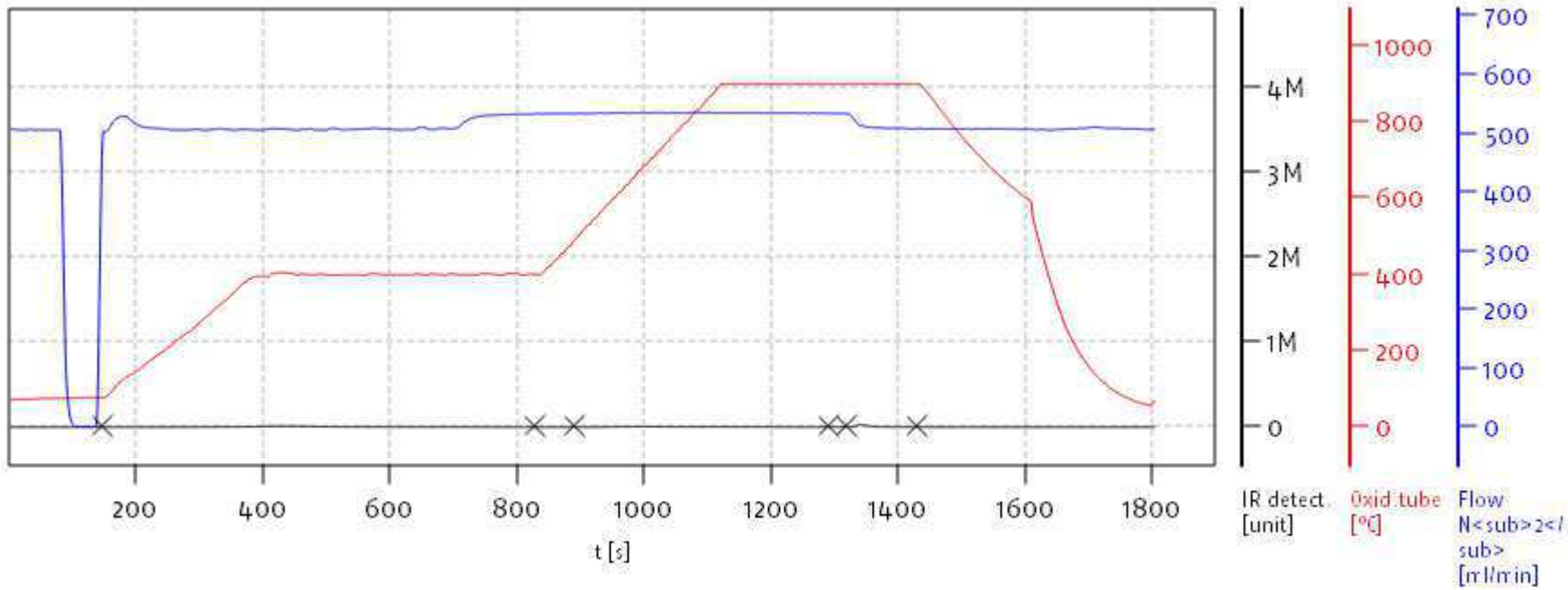
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	22L0155-03	577.30		CARBON	12/17/2022 9:15 PM	bl	0.011	72 781	0.016	0.000	24 215	43 091	0.011	0.004	0.9263	1.0000



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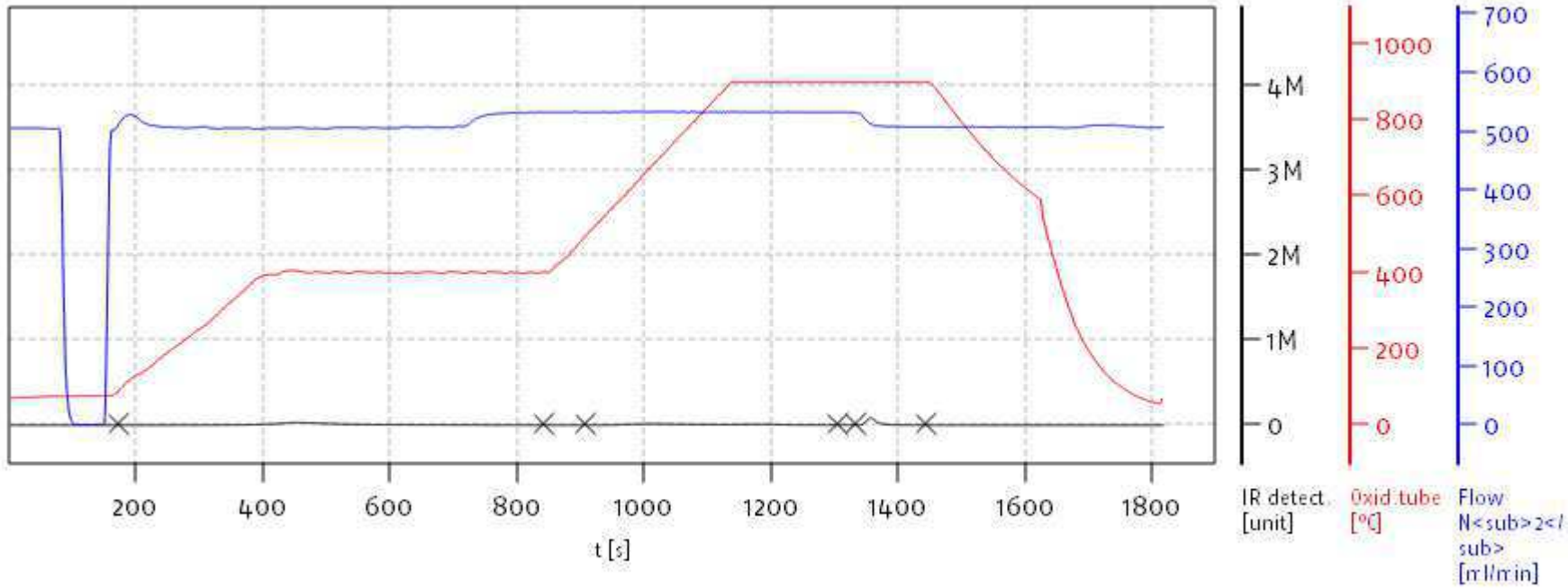
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	22L0155-04	585.90		CARBON	12/17/2022 9:45 PM	bl	0.042	158 824	0.062	0.010	64 114	102 585	0.032	0.020	0.9263	1.0000



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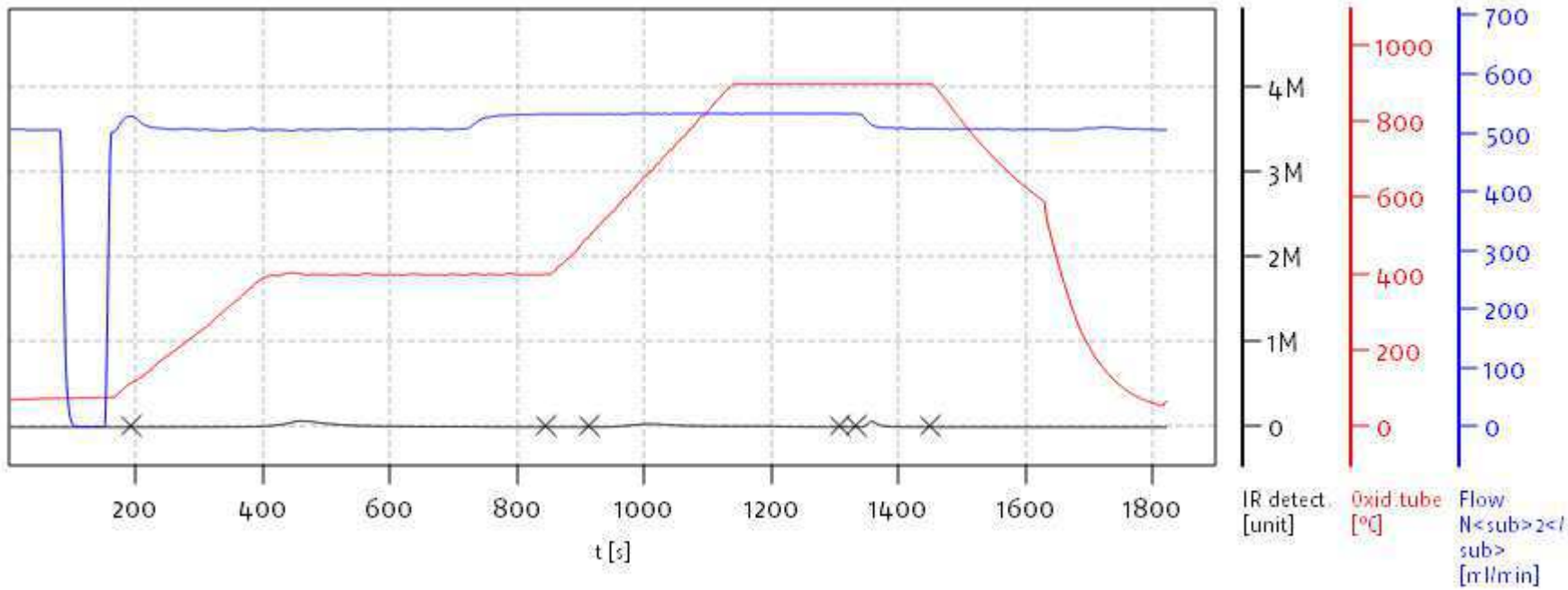
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	22L0155-05	524.00		CARBON	12/17/2022 10:16 PM	bl	0.082	298 286	0.127	0.007	51 310	179 829	0.074	0.045	0.9263	1.0000



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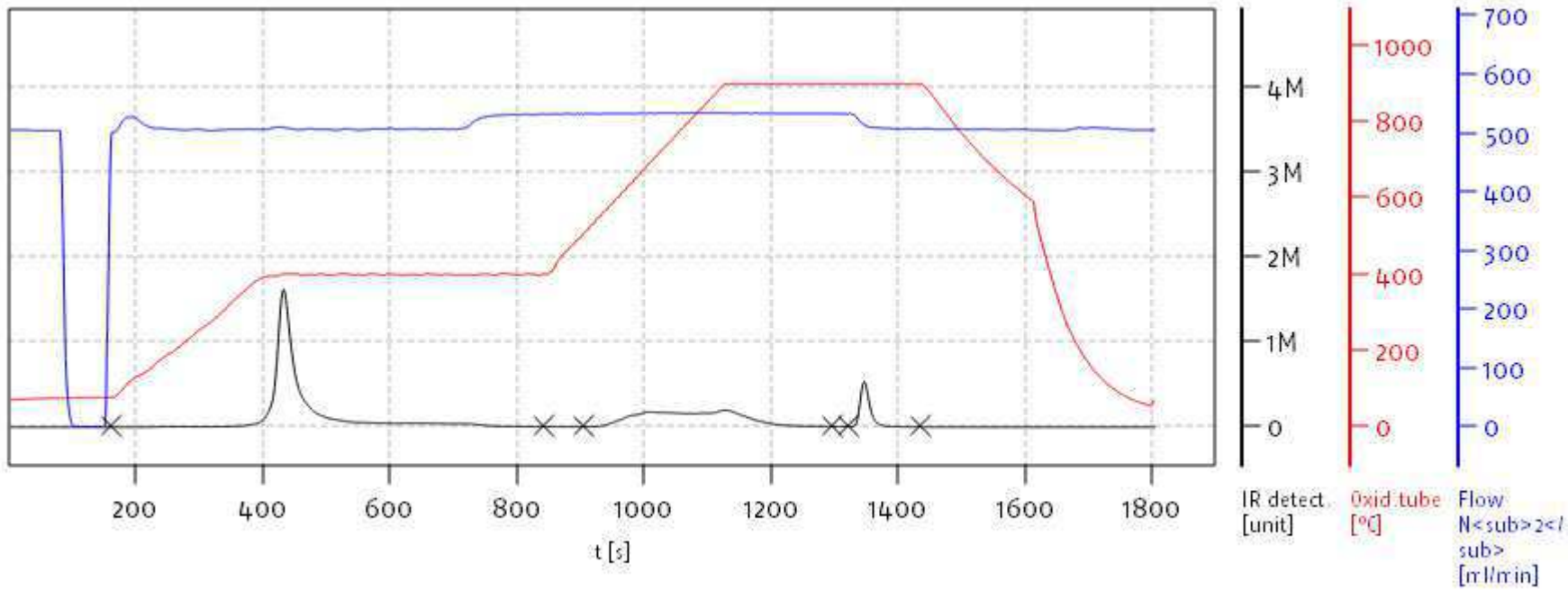
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	22L0155-06	515.40		CARBON	12/17/2022 10:46 PM	bl	0.809	2 573 080	1.231	0.100	360 184	1 432 200	0.708	0.422	0.9263	1.0000



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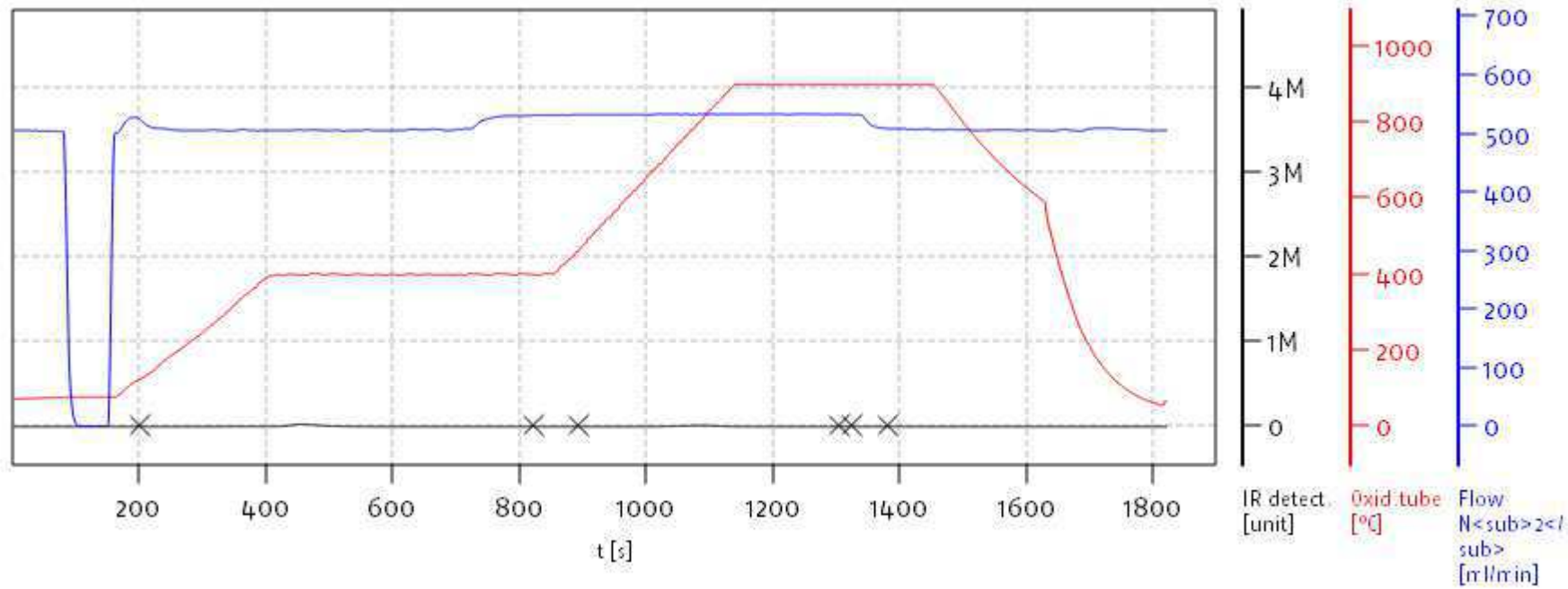
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	BKL0387-MRL1	545.70		CARBON	12/17/2022 11:17 PM	bl,C2u	0.010	66 160	0.013	0.000	81	37 188	0.010	0.003	0.9263	1.0000



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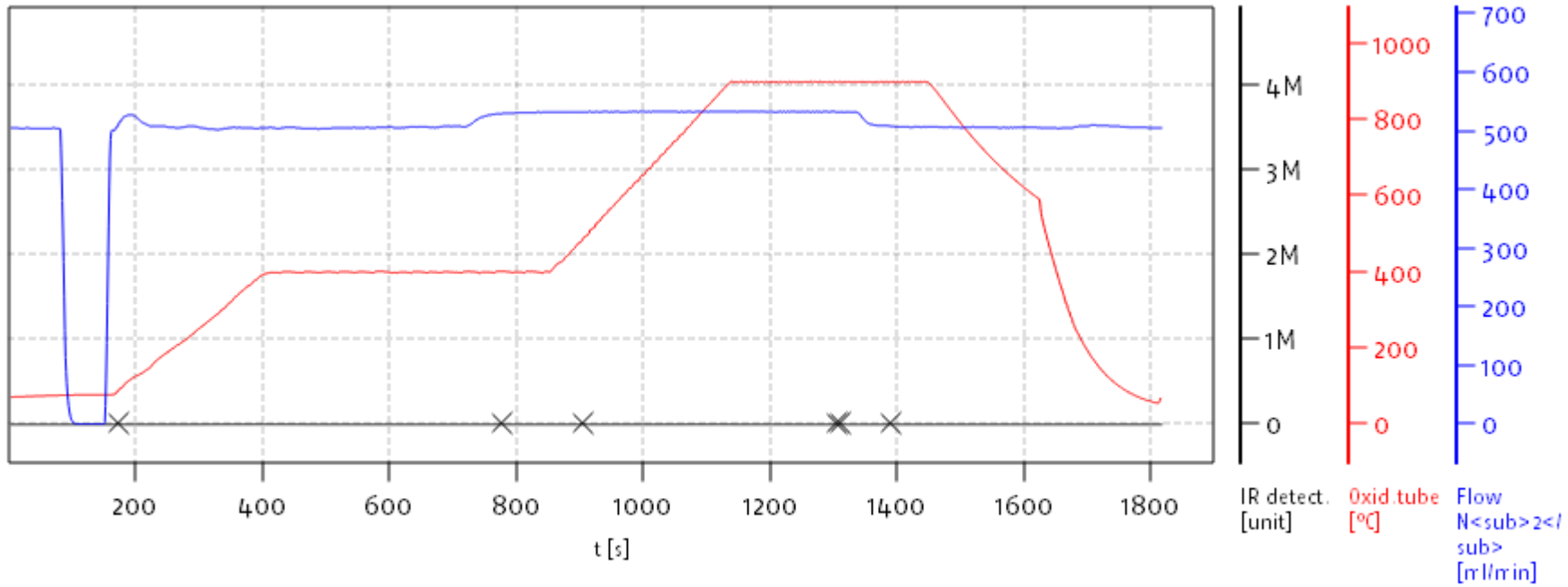
elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	BKL0387-BLK1	504.40		CARBON	12/17/2022 11:48 PM	bl,C2u	0.000	10 373	0.000	0.000	210	5 720	0.000	0.000	0.9263	1.0000



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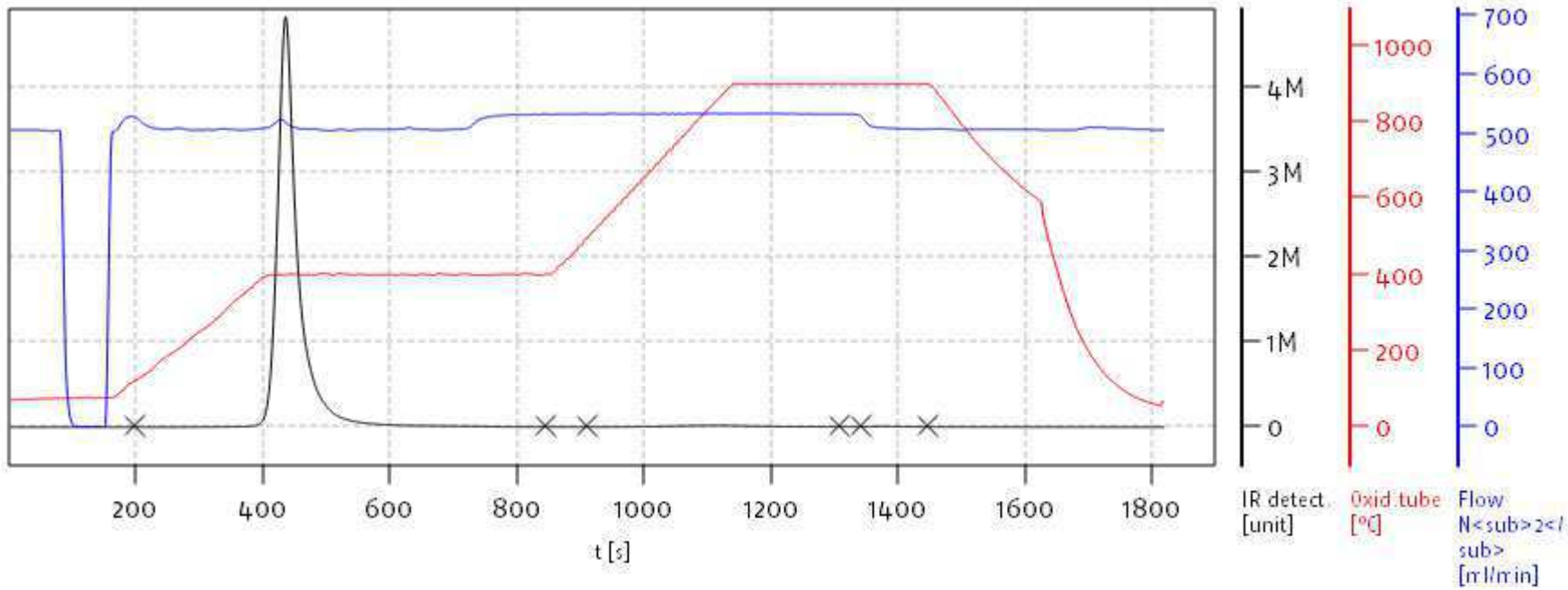
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	BKL0387-BS1	21.50		CARBON	12/18/2022 12:19 AM	bl	45.127	6 792 680	45.859	0.000	22 346	128 269	45.127	0.733	0.9263	1.0000



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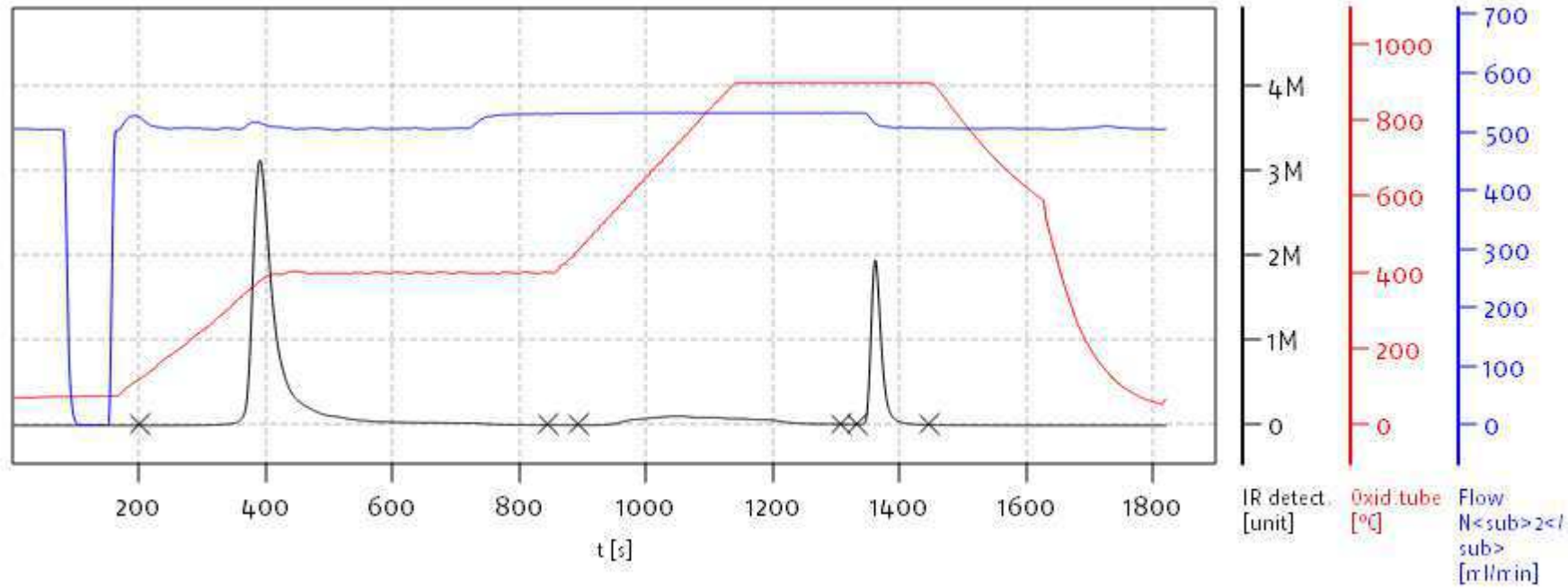
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	BKL0387-SRM1	317.40		CARBON	12/18/2022 12:49 AM	bl	2.968	5 097 090	3.386	0.677	1 415 010	882 940	2.291	0.418	0.9263	1.0000



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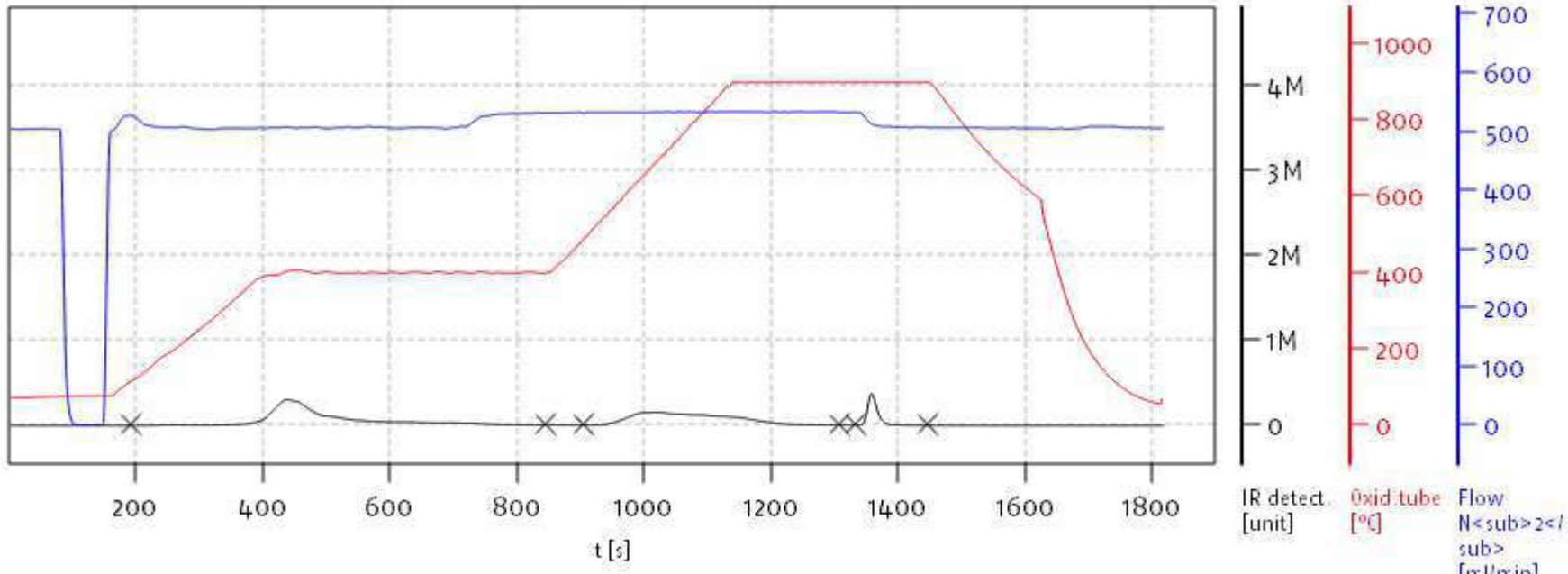
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	22L0155-07	511.10		CARBON	12/18/2022 1:20 AM	bl	0.426	1 298 550	0.744	0.070	256 097	1 076 710	0.357	0.318	0.9263	1.0000



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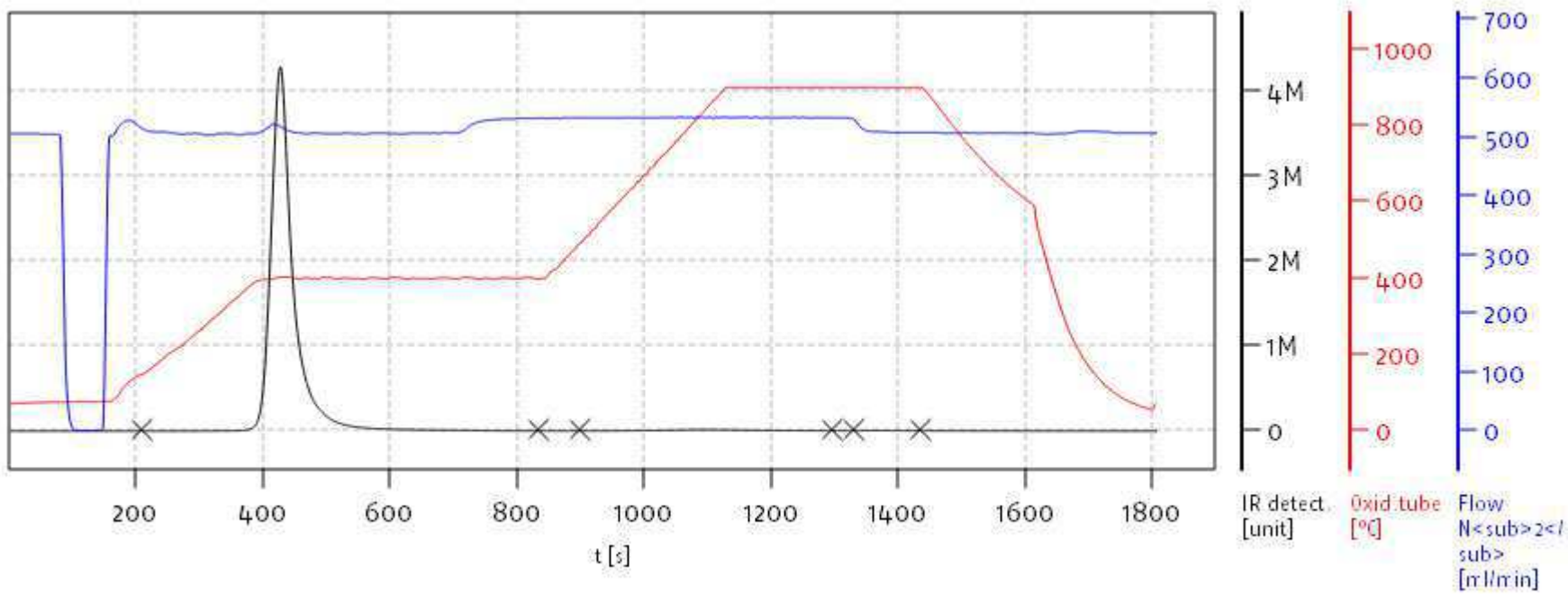
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SKL0217-CCV6	20.80		CARBON	12/18/2022 1:51 AM	bl	44.527	6 485 490	45.144	0.000	19 347	109 416	44.527	0.617	0.9263	1.0000



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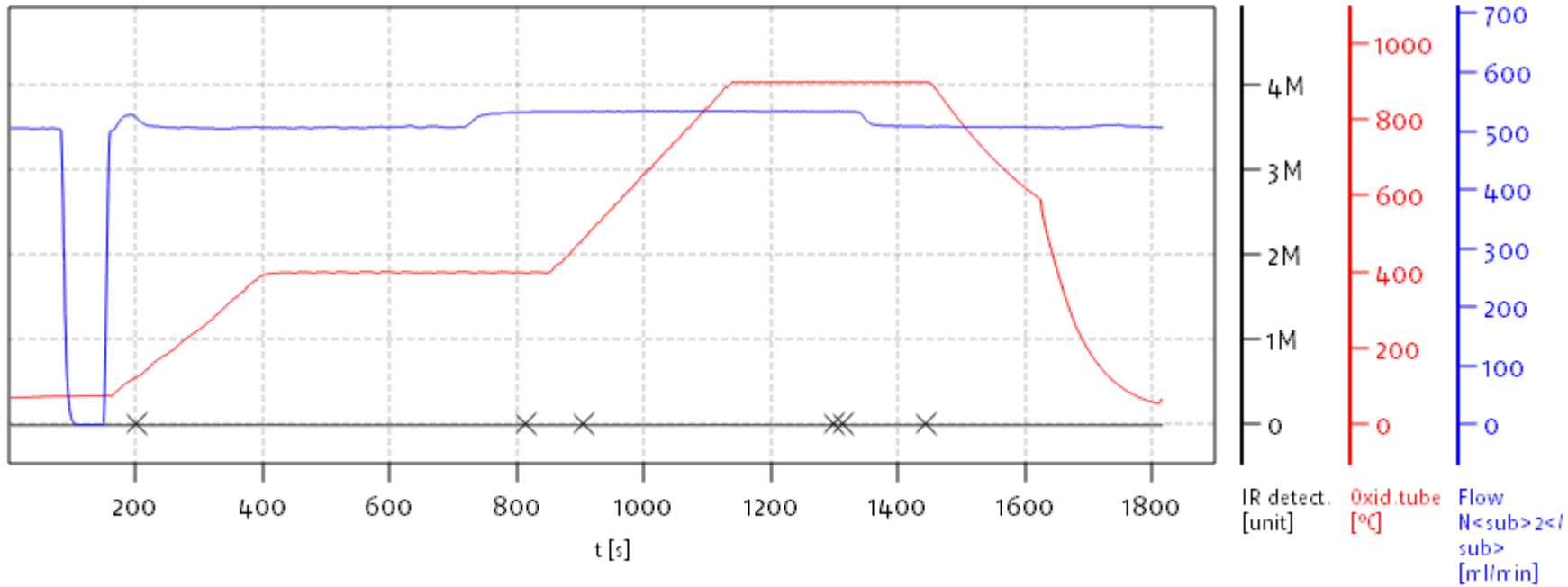
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SKL0217-CCB6	518.30		CARBON	12/18/2022 2:21 AM	bl,C2u	0.000	8 086	0.000	0.000	400	8 086	0.000	0.000	0.9263	1.0000



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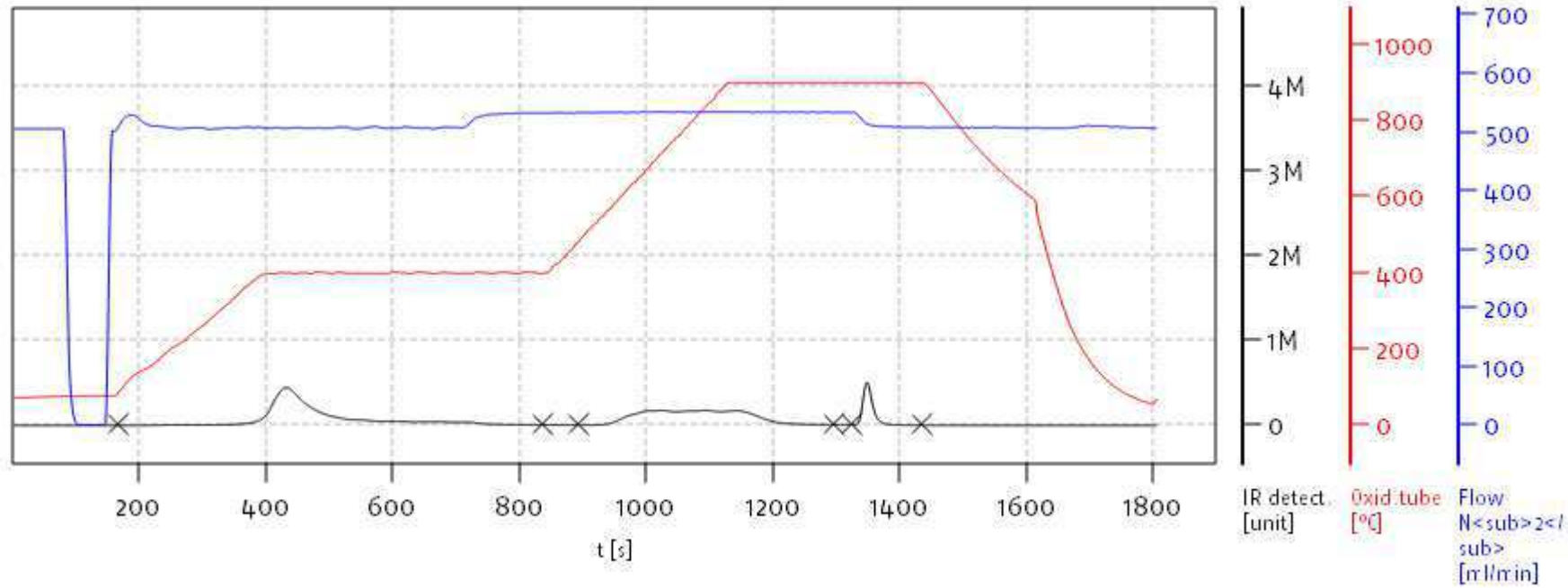
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	BKL0387-DUP1	505.50		CARBON	12/18/2022 2:52 AM	bl	0.554	1 628 840	0.992	0.099	350 266	1 457 180	0.455	0.438	0.9263	1.0000



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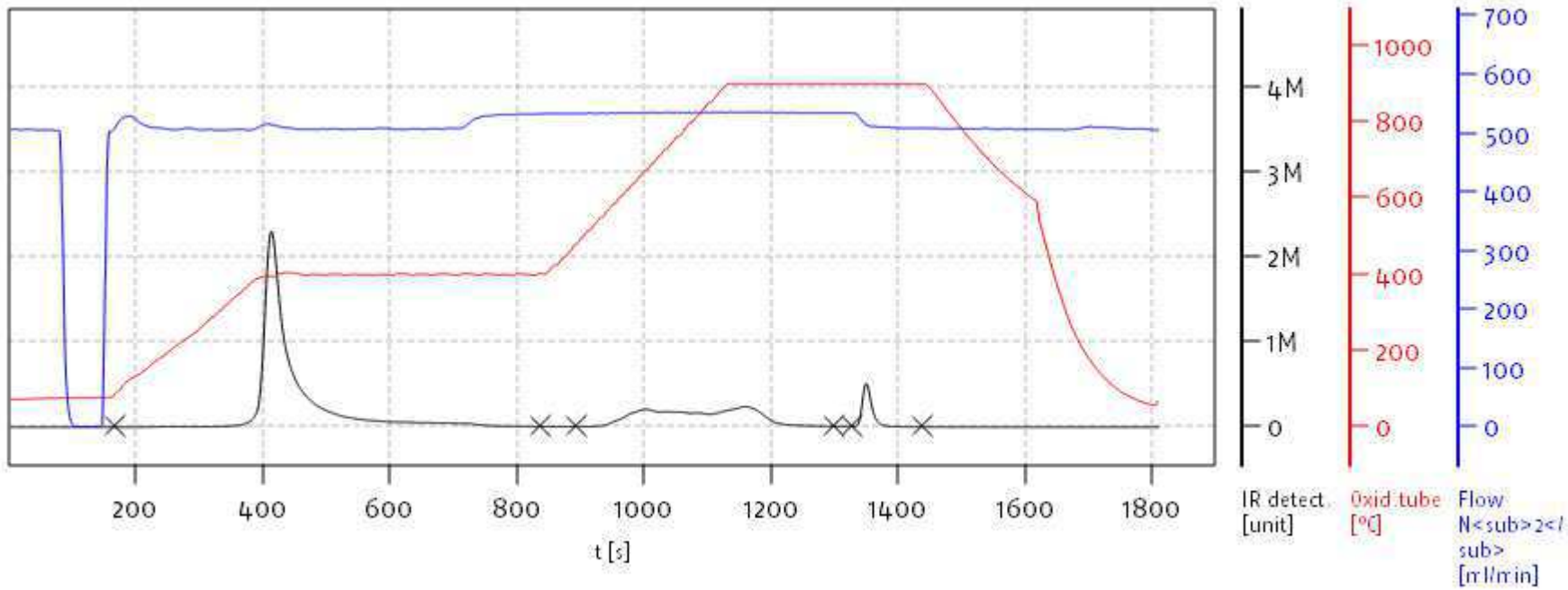
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	BKL0387-MS1	517.10	0.0080	CARBON	12/18/2022 3:22 AM	bl	1.258	4 220 440	1.772	0.095	344 078	1 743 210	1.163	0.514	0.9263	1.0000



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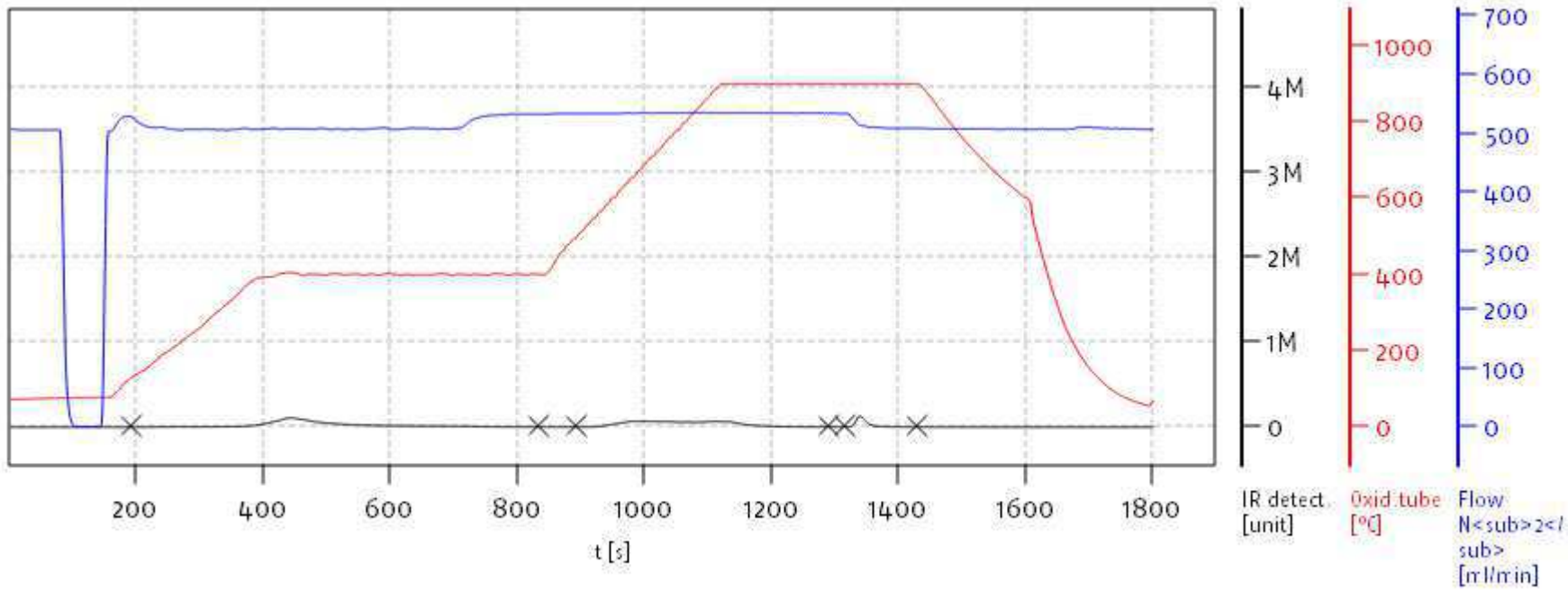
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	22L0155-08	501.00		CARBON	12/18/2022 3:53 AM	bl	0.160	507 126	0.316	0.023	99 877	530 163	0.138	0.156	0.9263	1.0000



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Access: soliTOC superuser

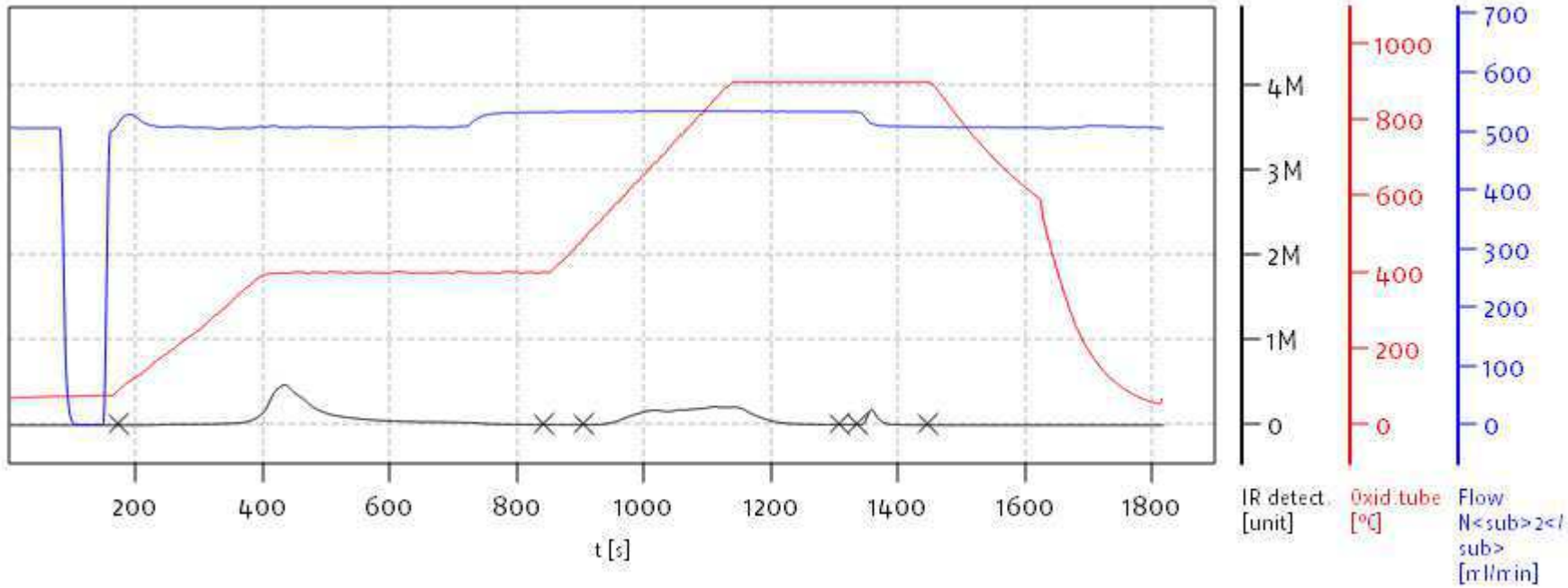
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	22L0155-09	577.90		CARBON	12/18/2022 4:23 AM	bl	0.482	1 851 270	0.890	0.029	135 466	1 548 260	0.453	0.408	0.9263	1.0000



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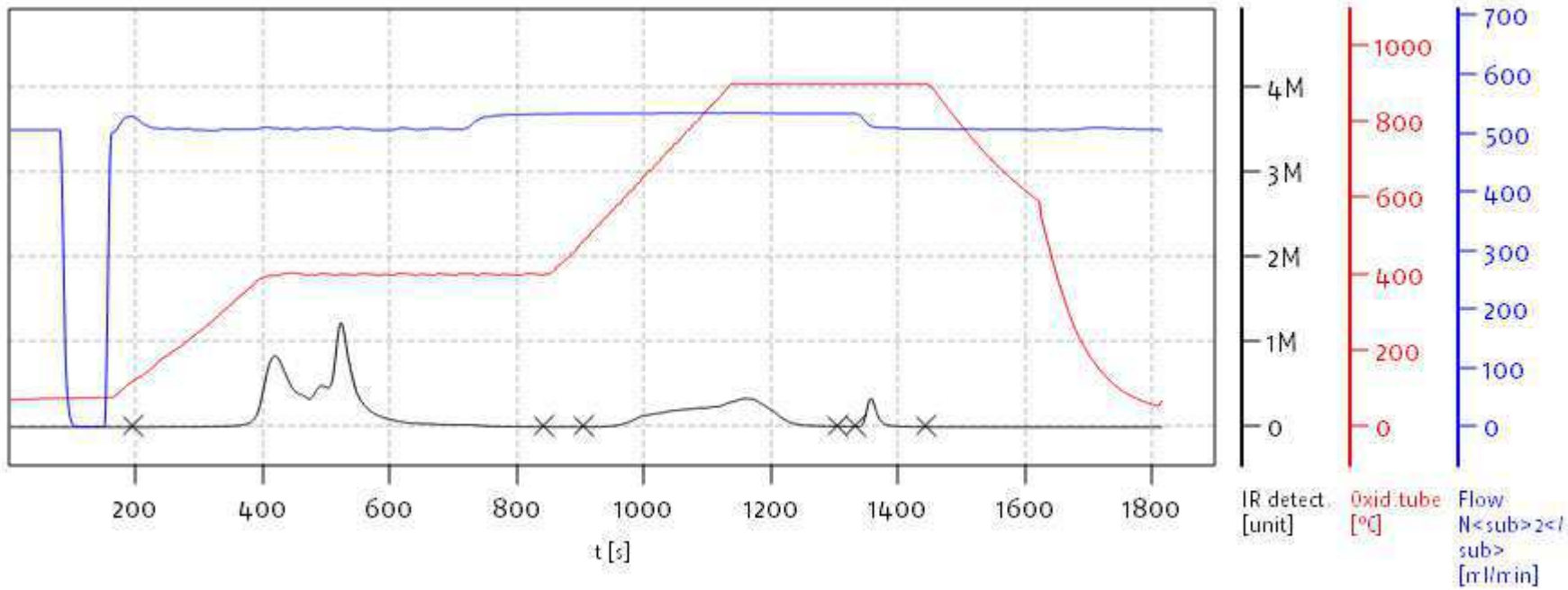
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	22L0155-10	509.90		CARBON	12/18/2022 4:54 AM	bl	1.237	4 184 240	1.866	0.068	250 453	2 096 720	1.169	0.628	0.9263	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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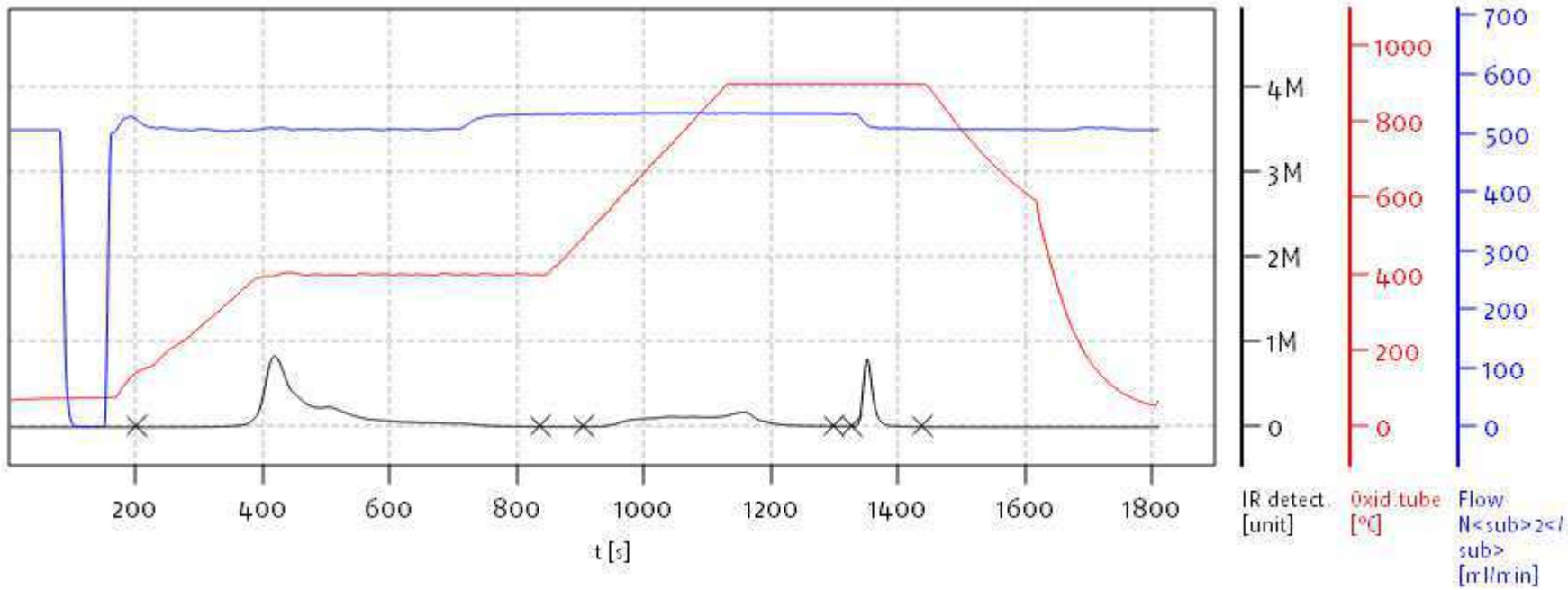
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
83	83	22L0155-11	521.00		CARBON	12/18/2022 5:25 AM	bl	0.876	2 649 870	1.201	0.154	545 866	1 119 910	0.722	0.325	0.9263	1.0000



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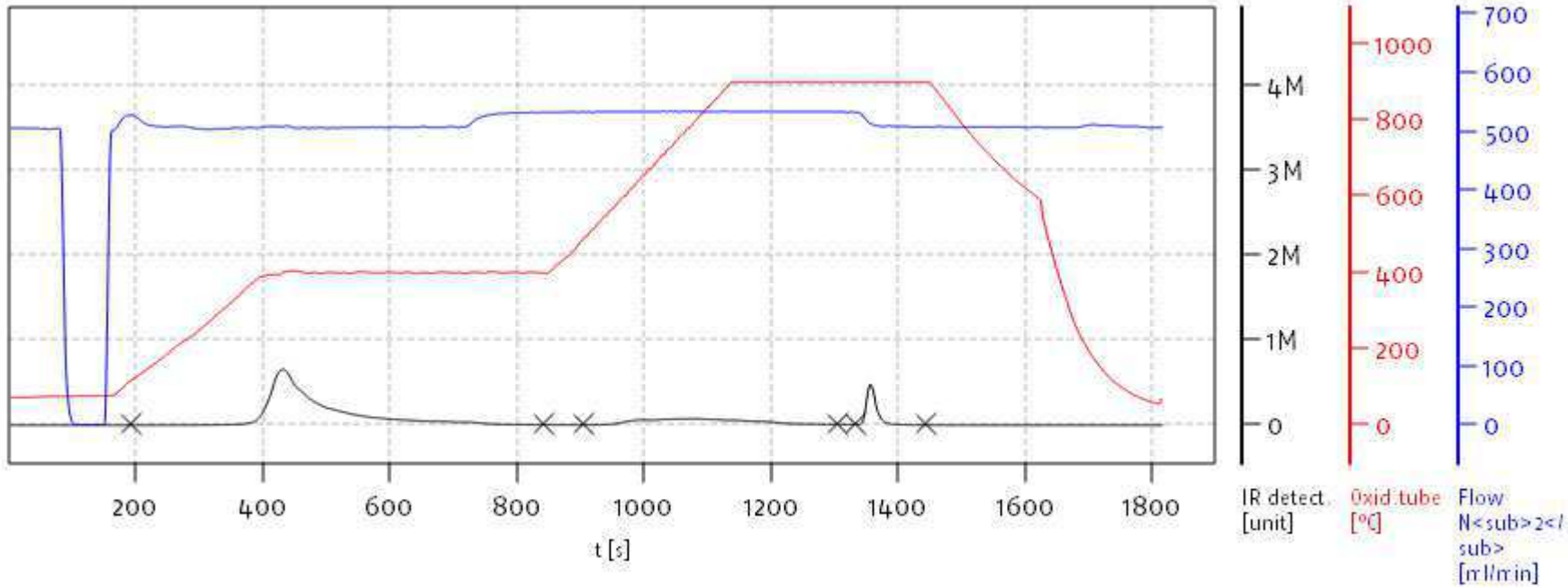
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
84	84	22L0155-12	545.80		CARBON	12/18/2022 5:55 AM	bl	0.696	2 345 330	0.863	0.087	333 066	614 285	0.609	0.167	0.9263	1.0000



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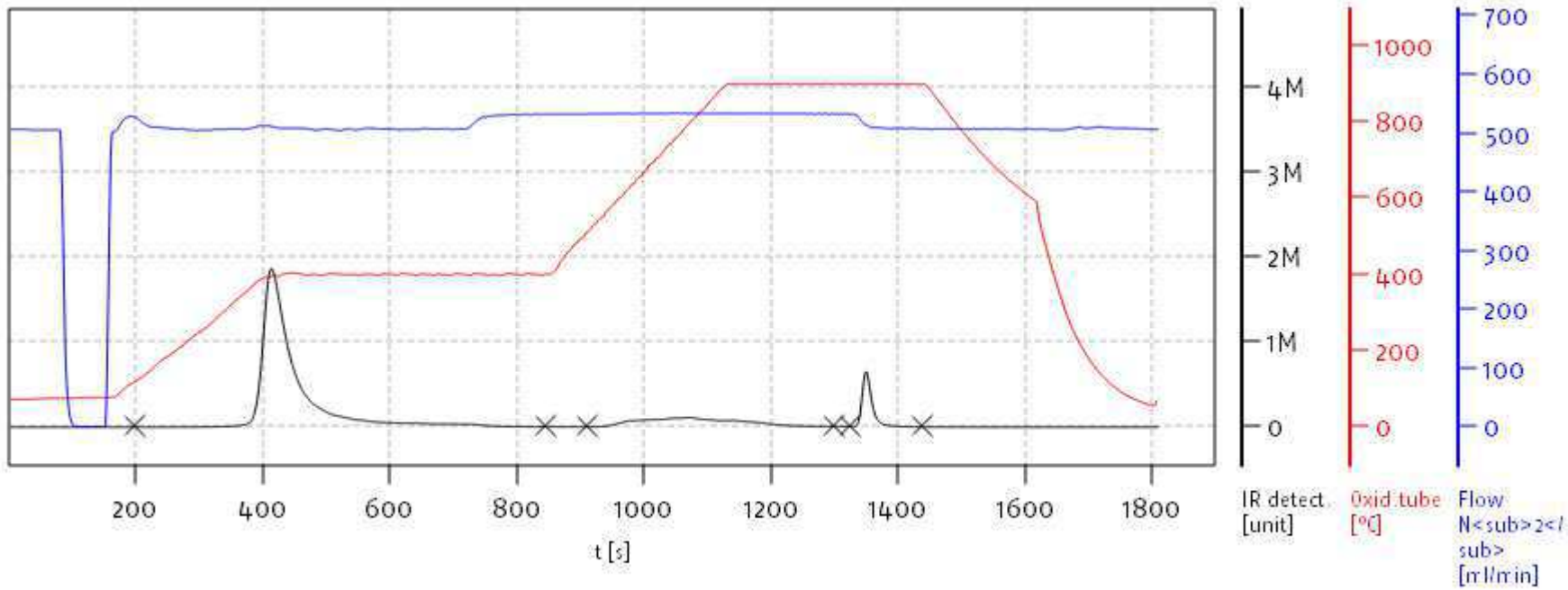
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
85	85	22L0155-13	505.80		CARBON	12/18/2022 6:26 AM	bl	1.264	4 035 010	1.503	0.128	444 650	805 263	1.136	0.238	0.9263	1.0000



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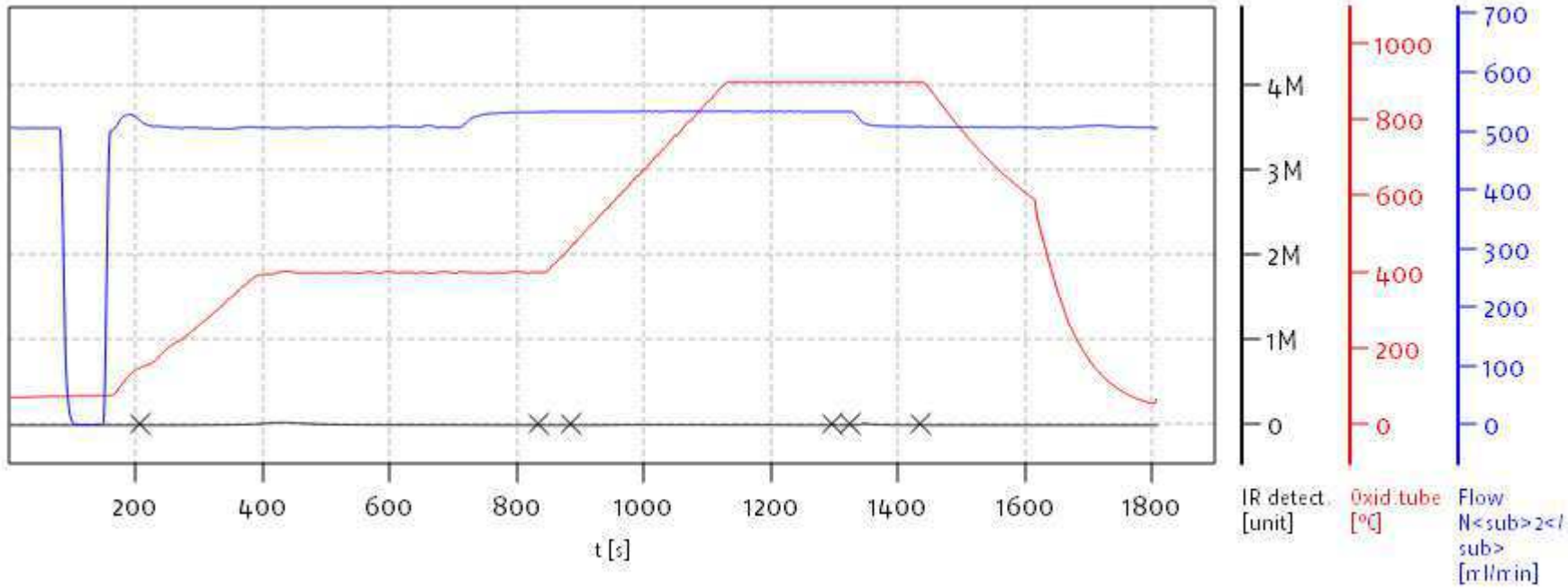
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
86	86	22L0155-14	550.20		CARBON	12/18/2022 6:56 AM	bl	0.028	135 581	0.031	0.000	17 287	36 705	0.028	0.003	0.9263	1.0000



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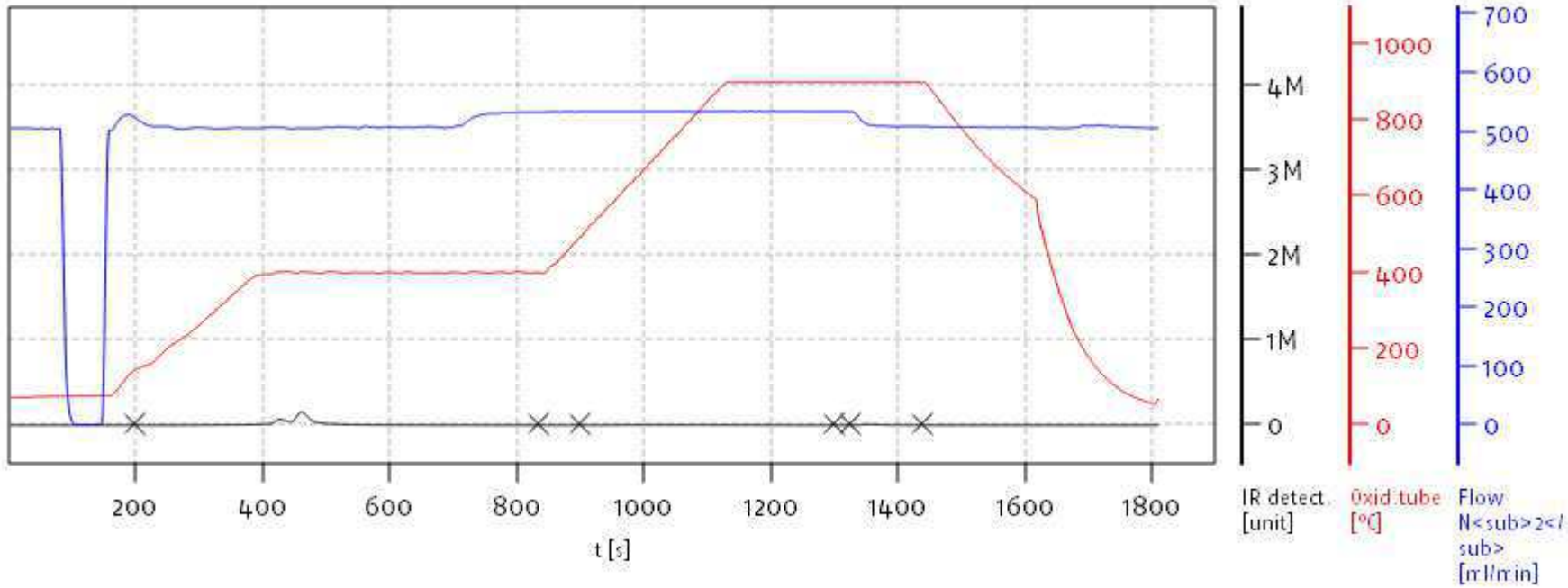
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
87	87	22L0155-15	509.90		CARBON	12/18/2022 7:27 AM	bl	0.069	270 341	0.069	0.000	13 548	24 857	0.069	0.000	0.9263	1.0000



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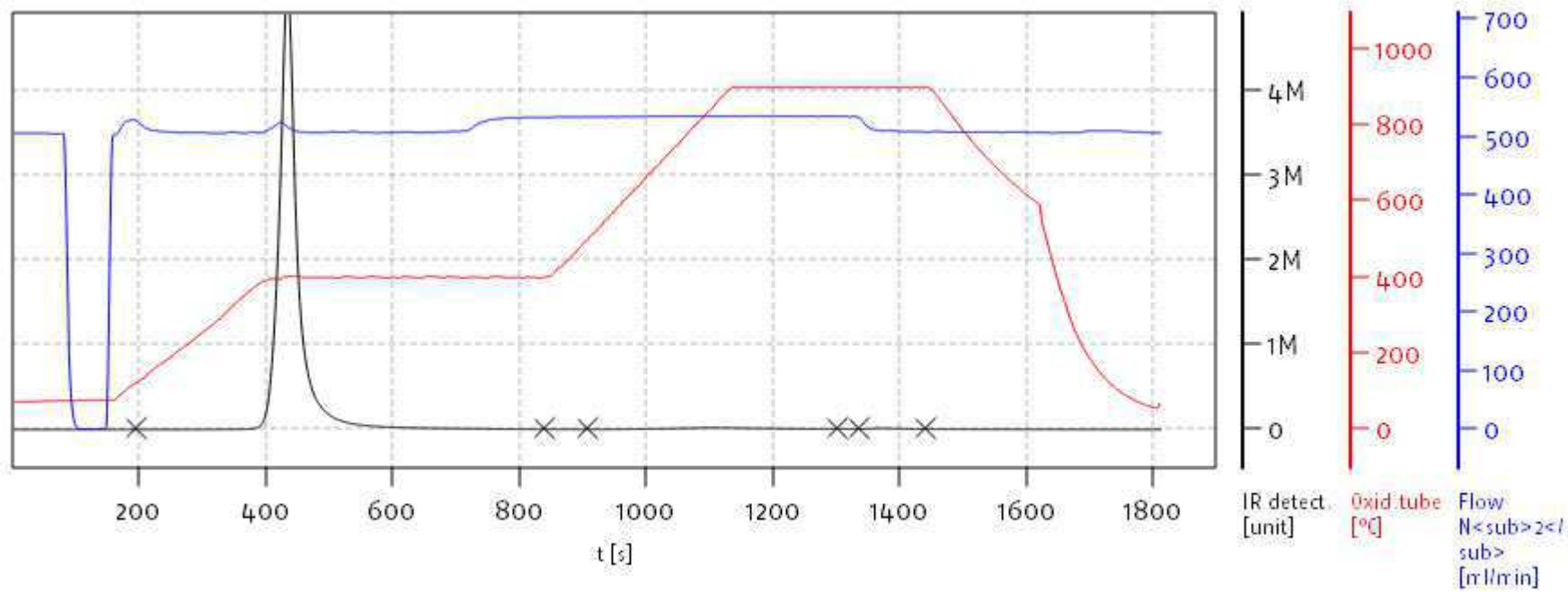
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
88	88	SKL0217-CCV7	21.90		CARBON	12/18/2022 7:58 AM	bl	43.388	6 640 800	44.331	0.081	37 931	159 807	43.308	0.942	0.9263	1.0000



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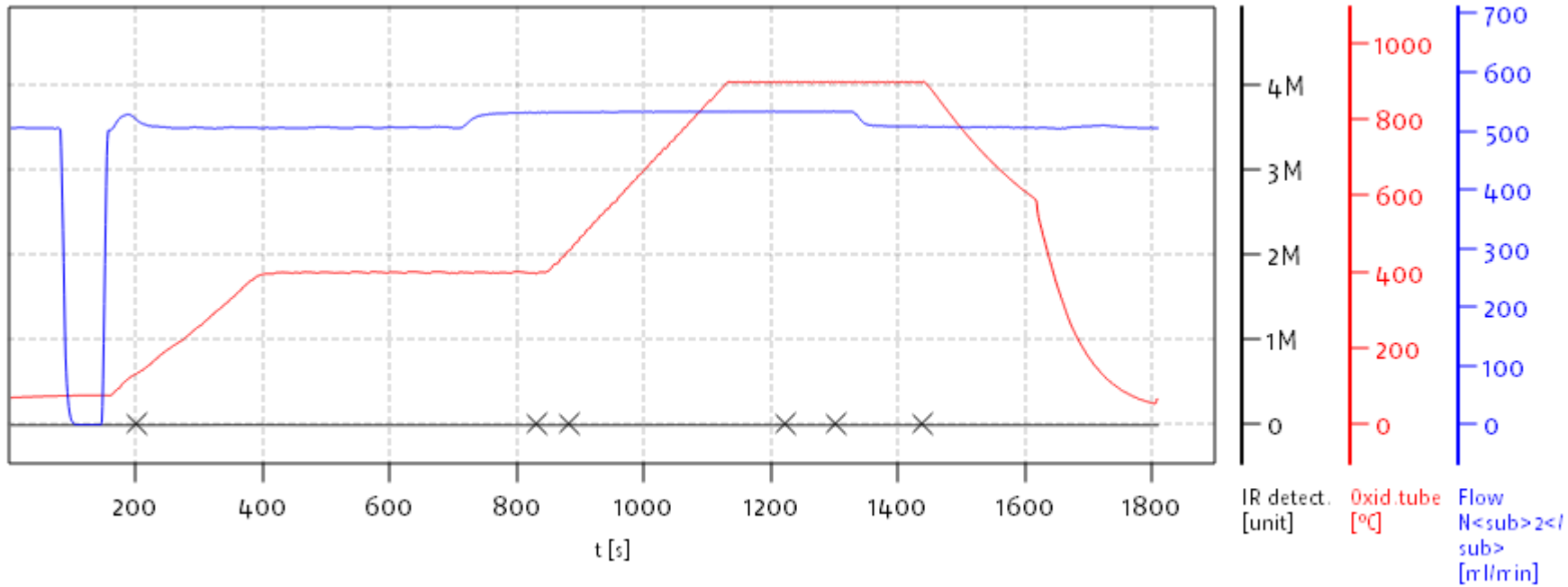
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
89	89	SKL0217-CCB7	517.00		CARBON	12/18/2022 8:28 AM	bl,C2u	0.000	9 459	0.000	0.000	235	3 597	0.000	0.000	0.9263	1.0000



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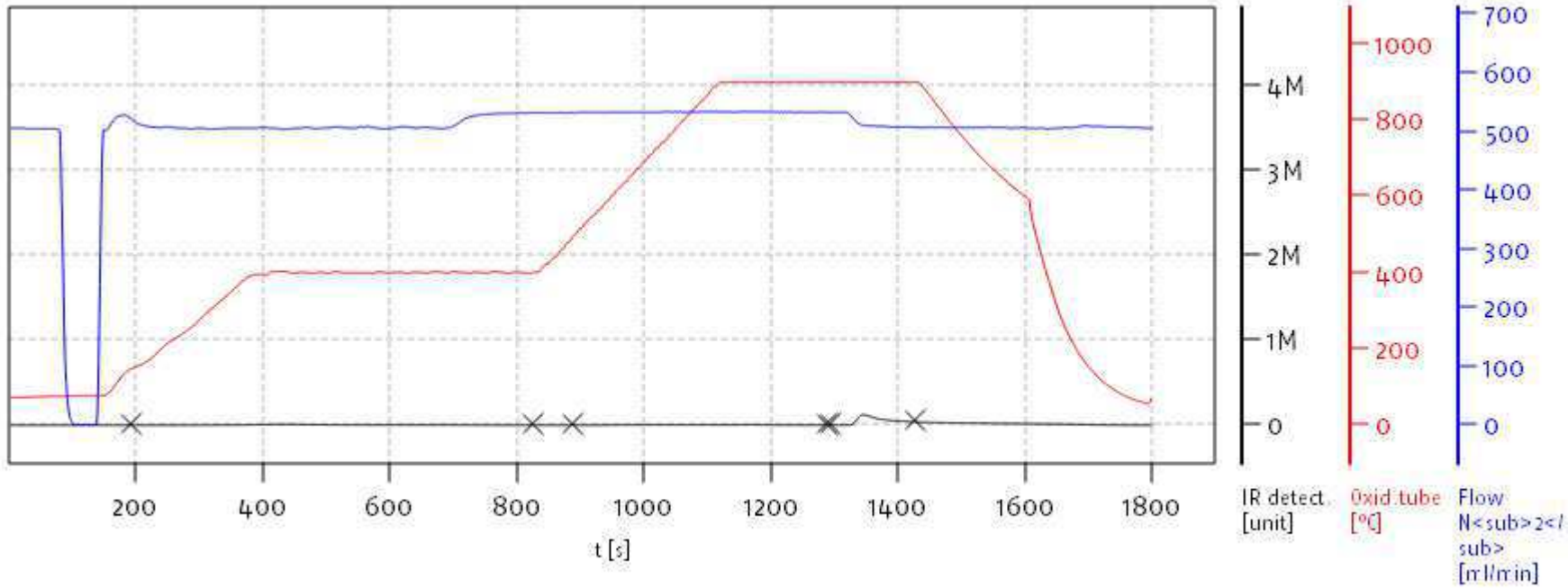
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
90	1	22L0155-16	512.00		CARBON	12/18/2022 8:59 AM	bl	0.081	66 396	0.085	0.069	256 268	42 105	0.011	0.005	0.9263	1.0000



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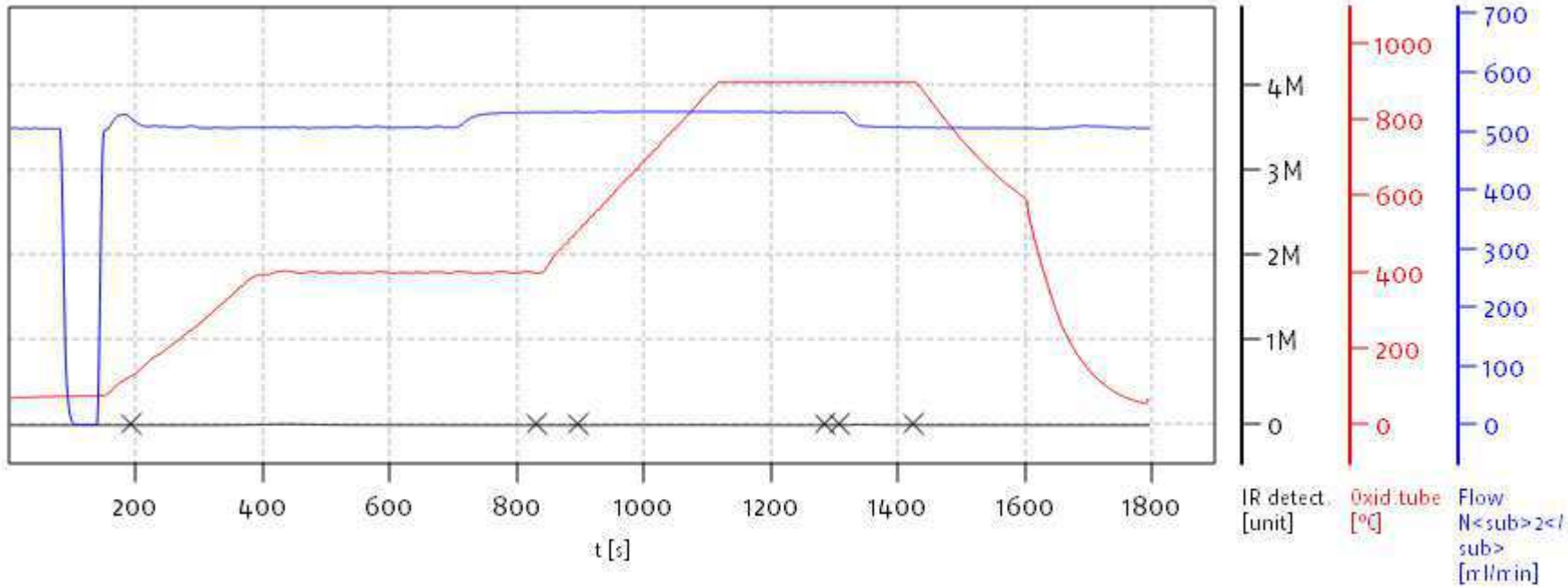
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
91	2	22L0155-17	501.90		CARBON	12/18/2022 9:29 AM	bl	0.007	52 557	0.007	0.000	11 048	16 617	0.007	0.000	0.9263	1.0000



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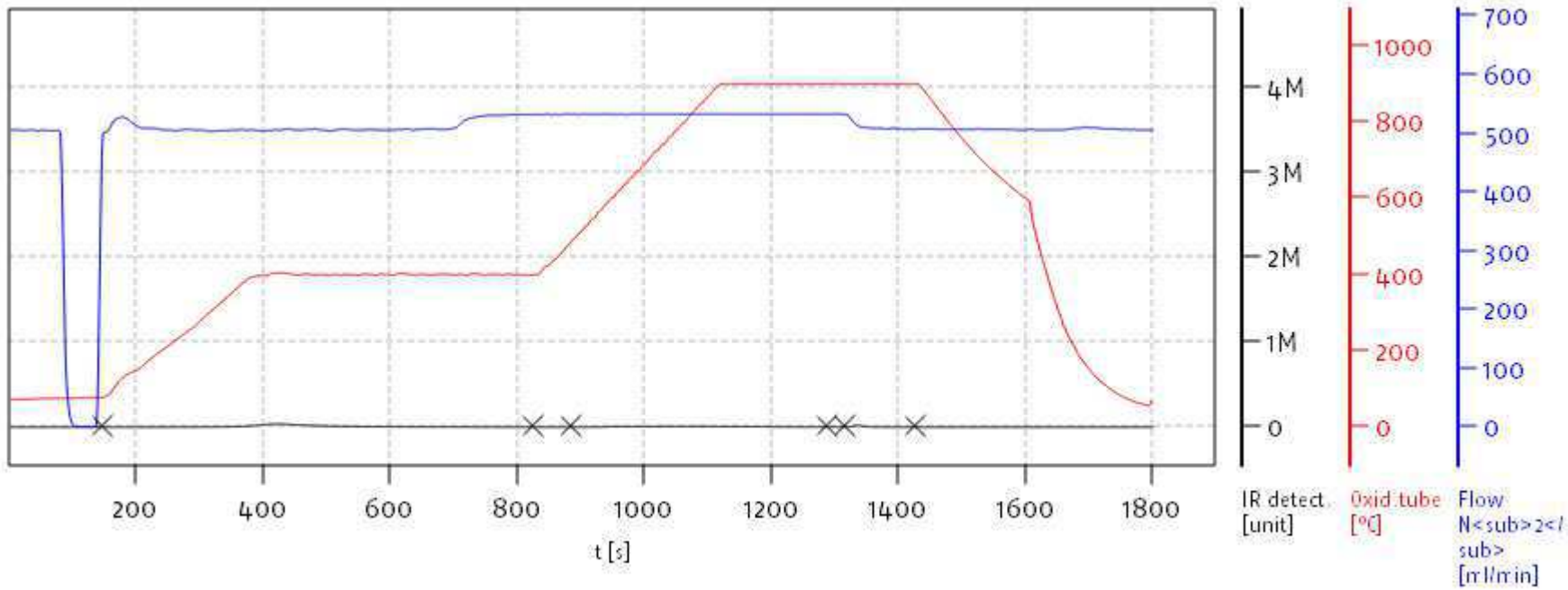
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
92	3	22L0155-18	515.00		CARBON	12/18/2022 9:59 AM	bl	0.042	178 586	0.058	0.000	15 263	79 921	0.042	0.016	0.9263	1.0000



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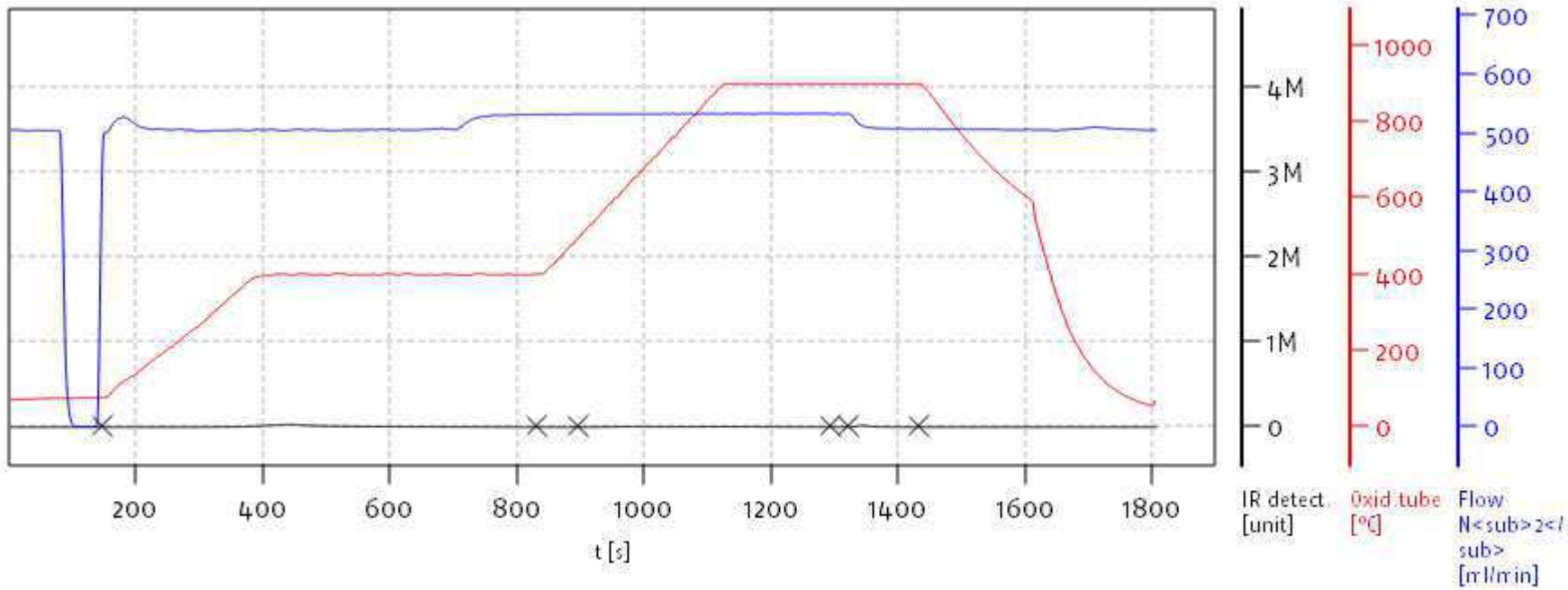
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
93	4	22L0155-19	613.40		CARBON	12/18/2022 10:30 AM	bl	0.030	154 811	0.037	0.000	17 621	52 887	0.030	0.007	0.9263	1.0000



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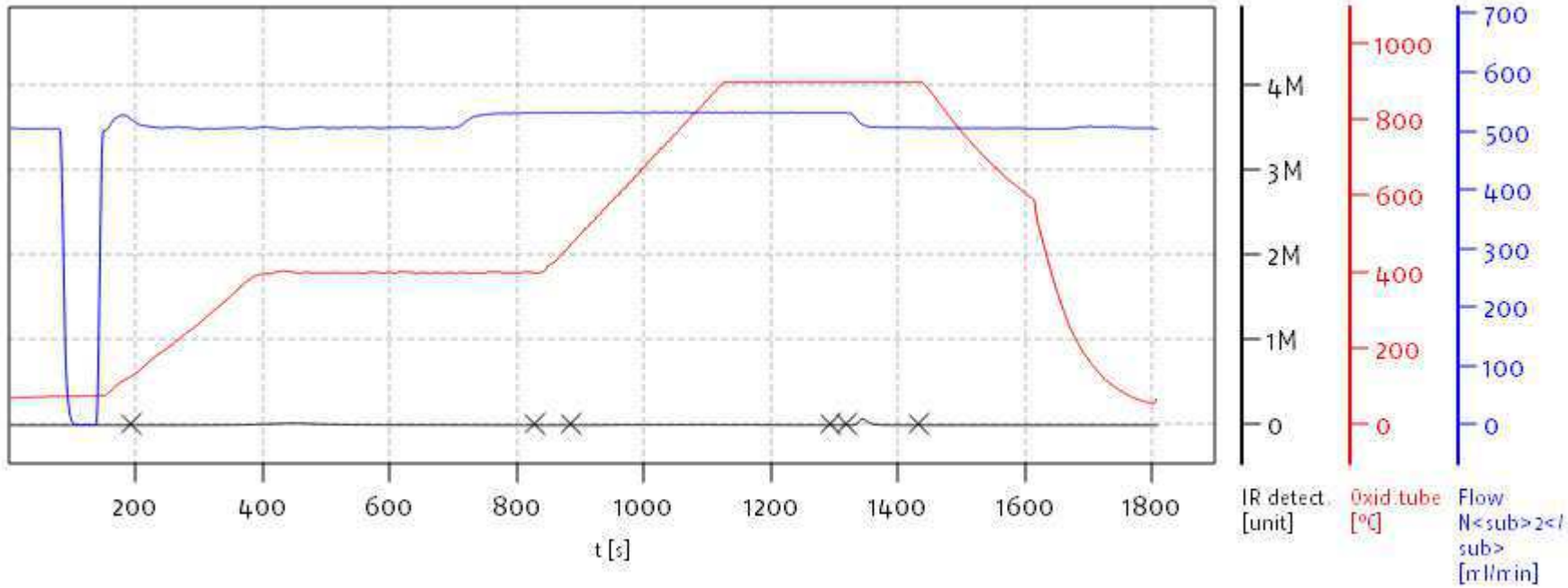
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
94	5	22L0155-20	506.00		CARBON	12/18/2022 11:01 AM	bl	0.030	110 442	0.035	0.007	47 828	42 365	0.024	0.005	0.9263	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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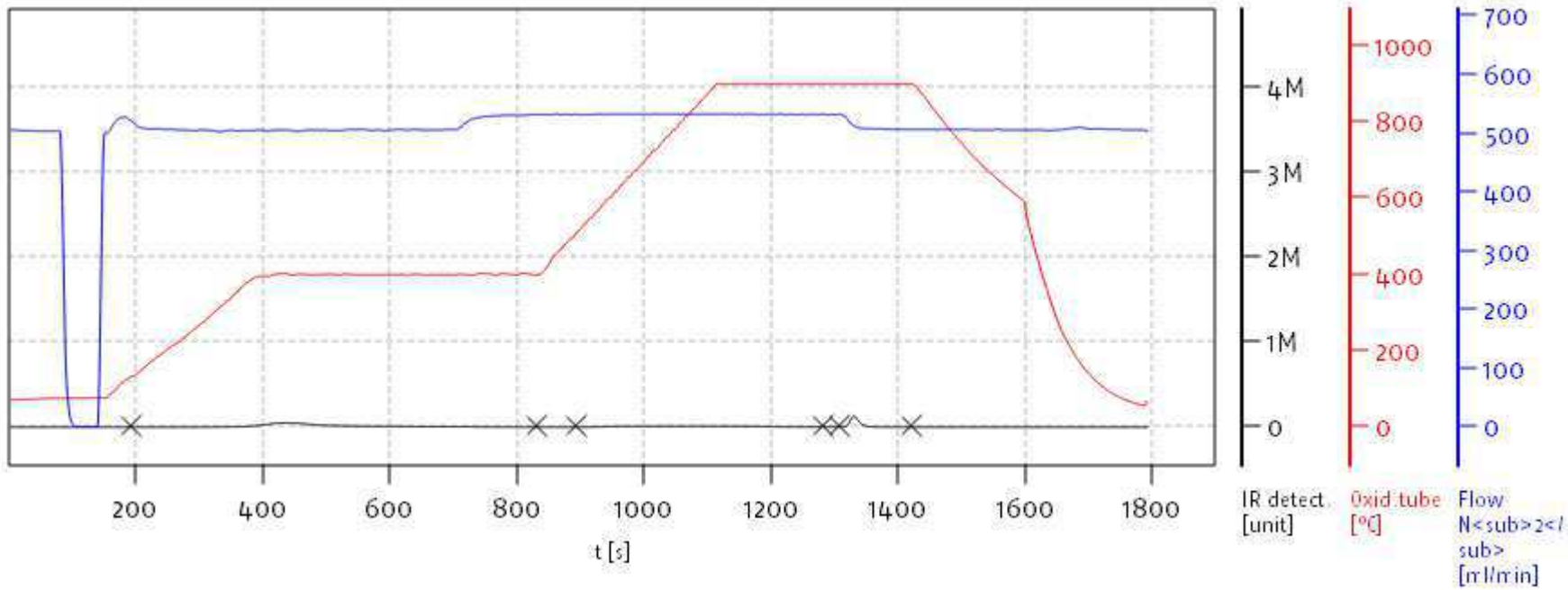
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	22L0155-21	508.20		CARBON	12/18/2022 11:31 AM	bl	0.079	248 904	0.103	0.017	81 200	104 635	0.063	0.024	0.9263	1.0000



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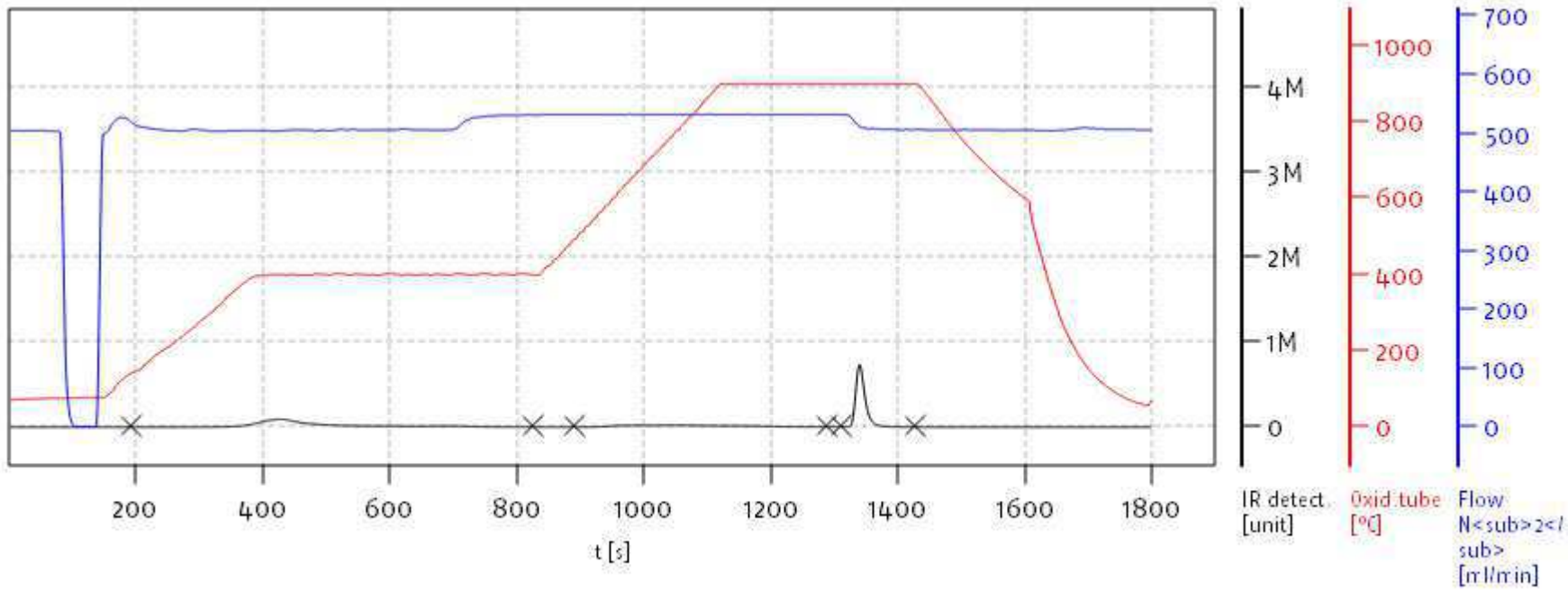
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
96	7	22L0155-22	542.10		CARBON	12/18/2022 12:01 PM	bl	0.229	411 584	0.273	0.127	471 482	179 958	0.102	0.044	0.9263	1.0000



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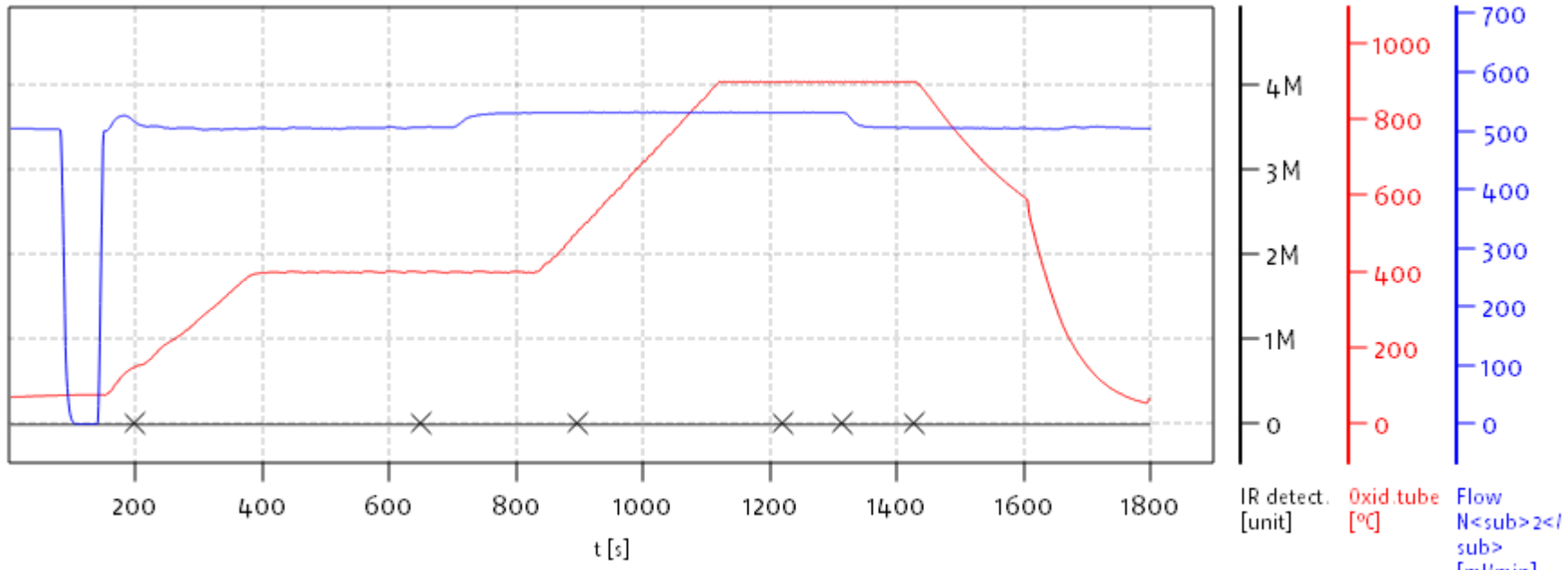
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
97	8	BLANK	1.00		CARBON	12/18/2022 12:32 PM	bl	0.000	5 321	0.000	0.000	177	452	0.000	0.000	0.9263	1.0000



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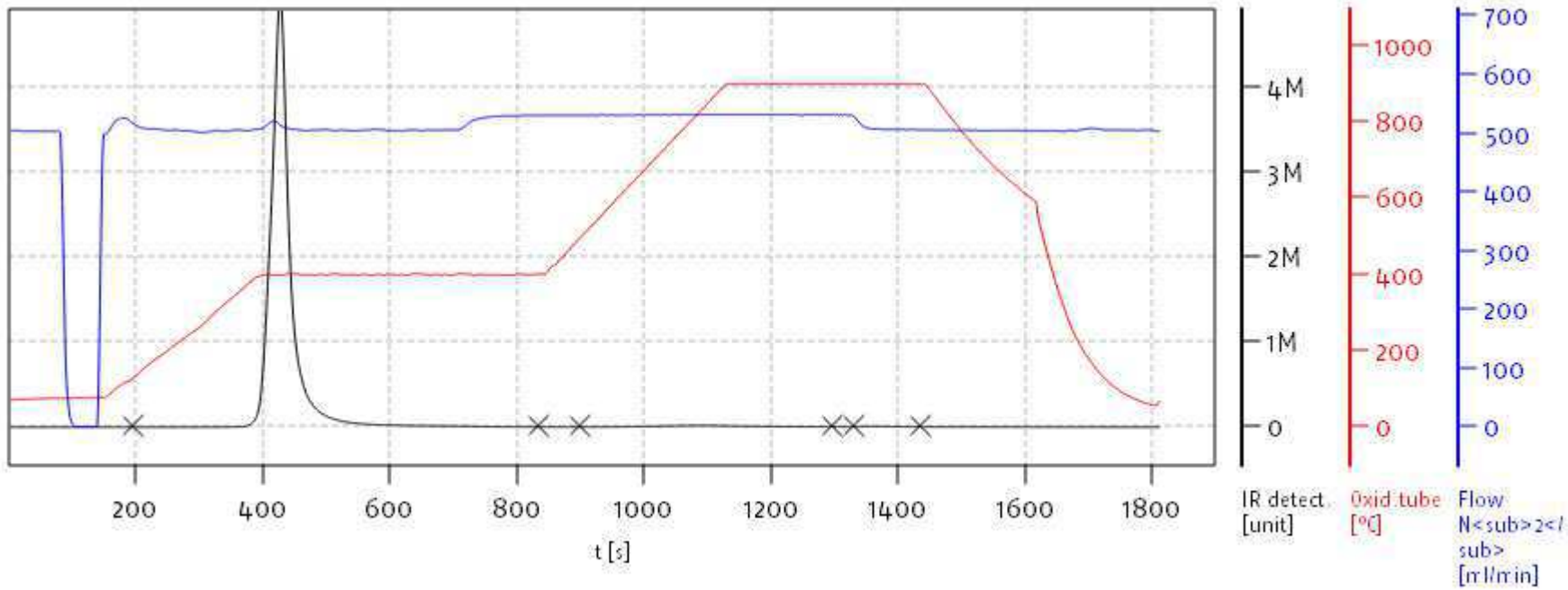
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
98	9	Dfactor	21.00		CARBON	12/18/2022 1:02 PM	bl	44.446	6 588 110	45.209	0.000	23 443	130 030	44.446	0.763	0.9189	1.0000



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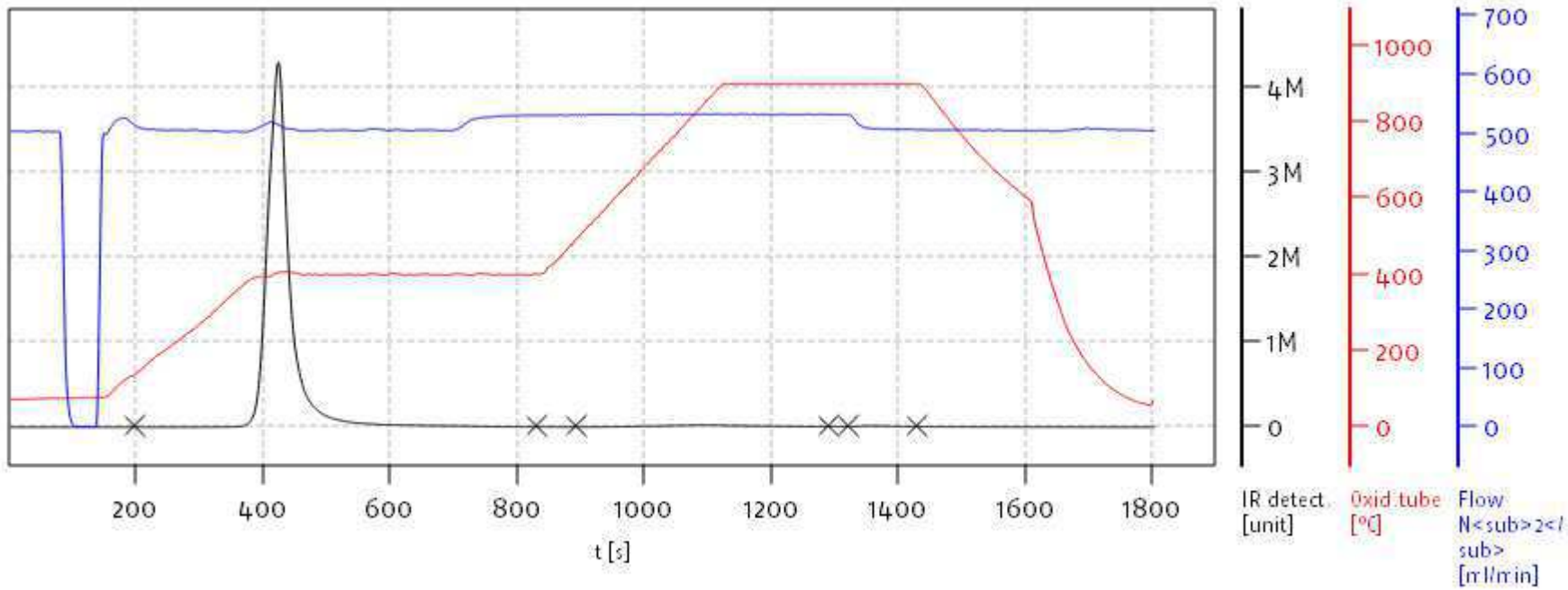
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
99	10	Dfactor	21.50		CARBON	12/18/2022 1:33 PM	bl	44.527	6 531 770	45.574	0.081	37 843	171 931	44.446	1.047	0.9489	1.0000



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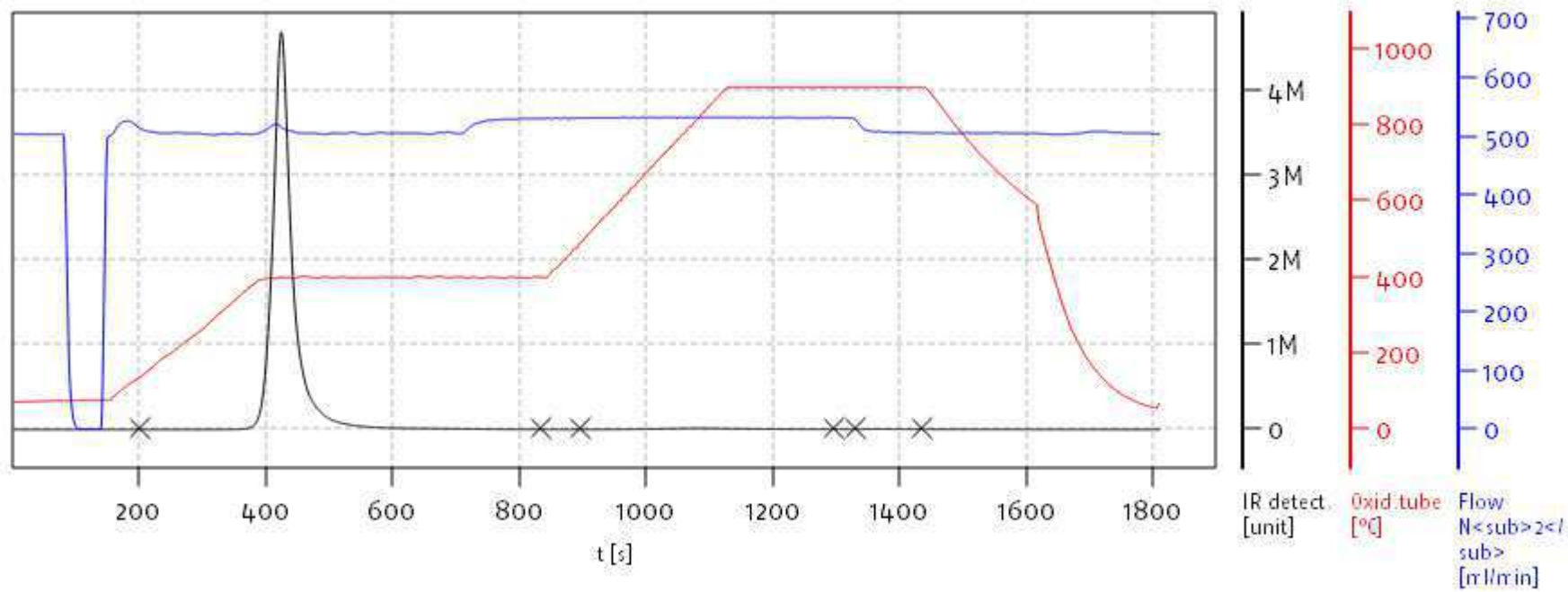
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
100	11	SKL0217-CCV8	20.40		CARBON	12/18/2022 2:03 PM	bl	45.130	6 394 800	45.677	0.000	18 427	98 576	45.130	0.547	0.9339	1.0000



Name:

Access: soliTOC superuser

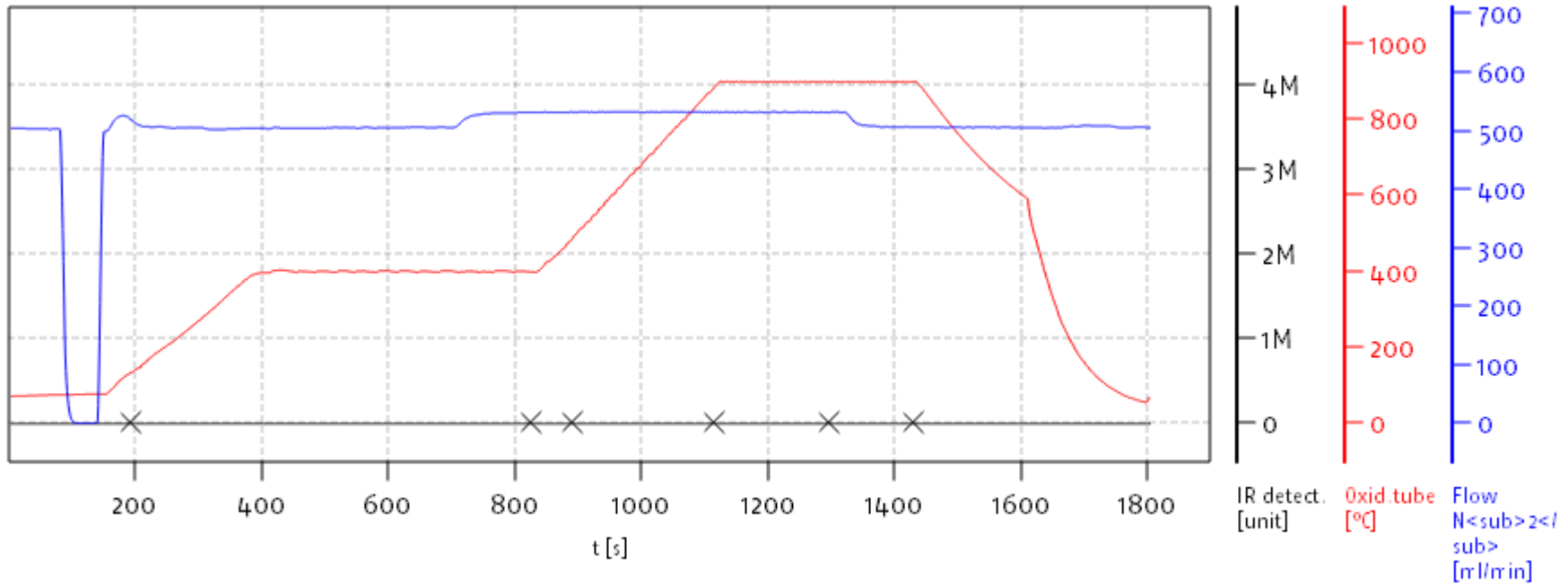
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
101	12	SKL0217-CCB8	574.10		CARBON	12/18/2022 2:34 PM	bl,C3u,C2u	0.000	4 926	0.000	0.000	828	526	0.000	0.000	0.9339	1.0000



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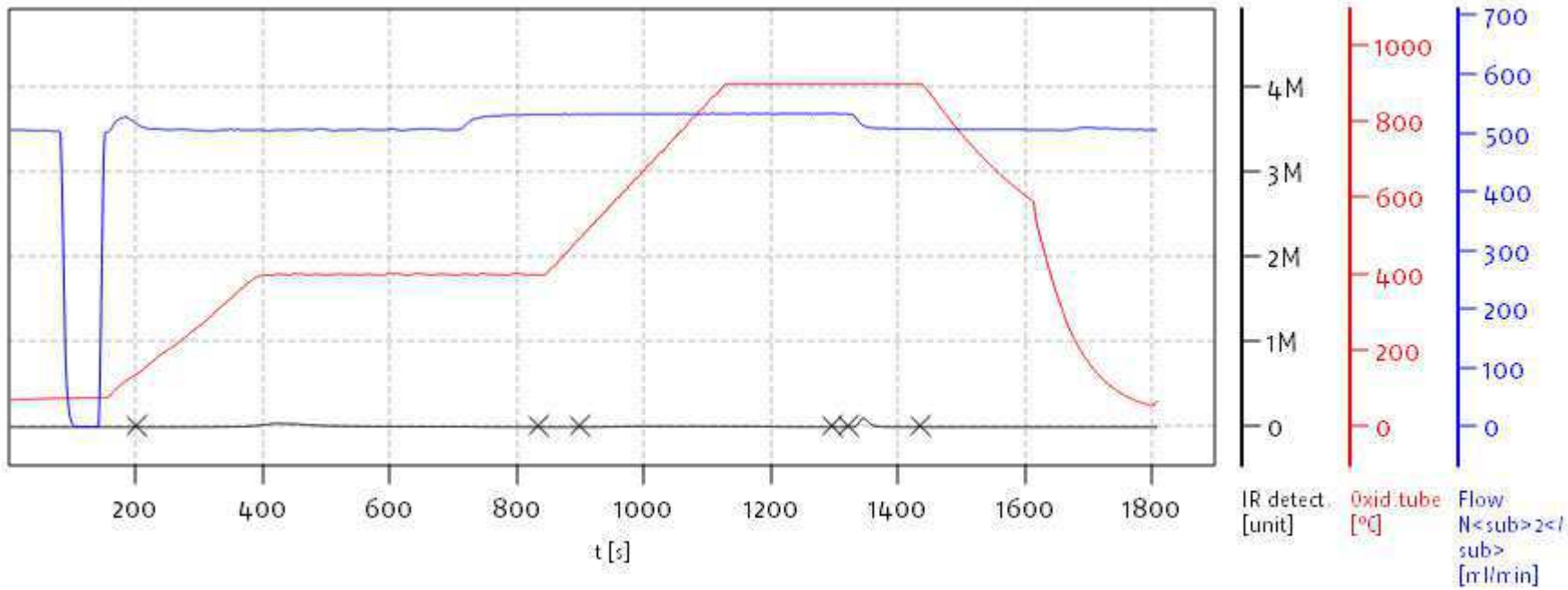
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
102	13	22L0155-23	518.30		CARBON	12/18/2022 3:04 PM	bl	0.066	218 043	0.085	0.013	69 875	87 961	0.053	0.018	0.9339	1.0000



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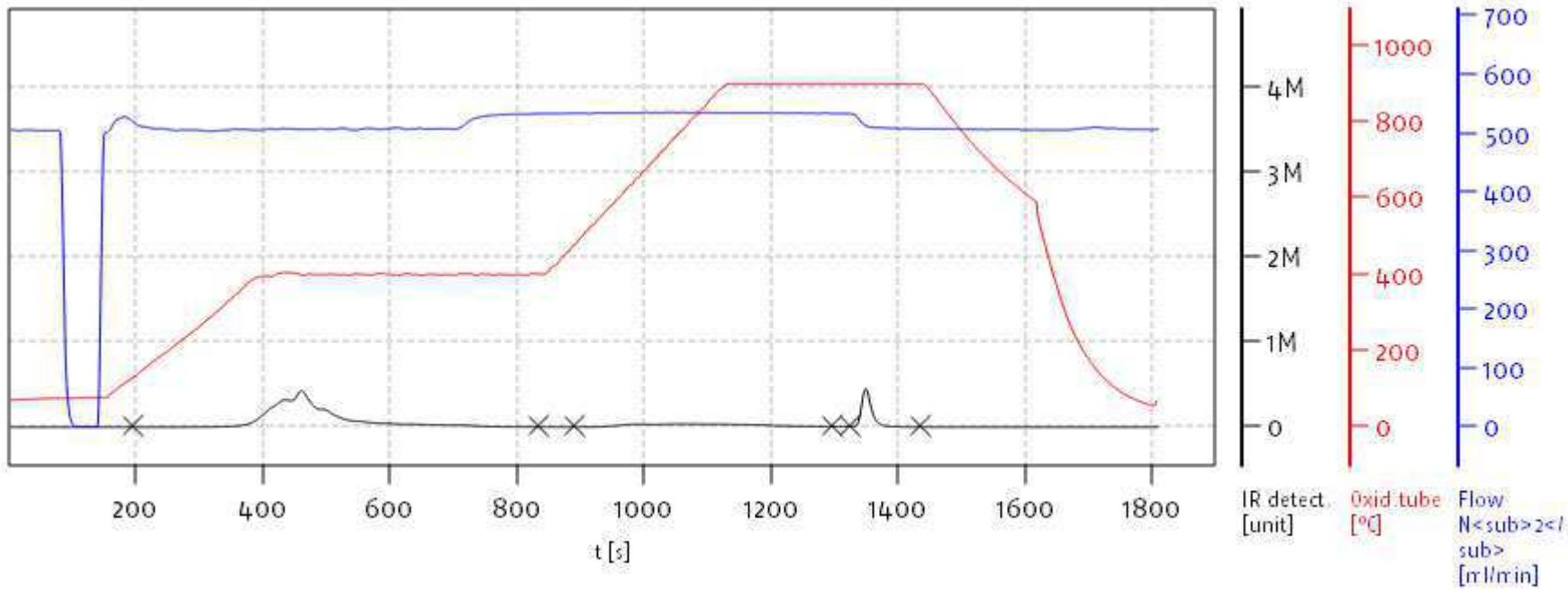
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
103	14	22L0155-24	505.70		CARBON	12/18/2022 3:35 PM	bl	0.546	1 629 490	0.639	0.088	314 031	330 258	0.458	0.093	0.9339	1.0000



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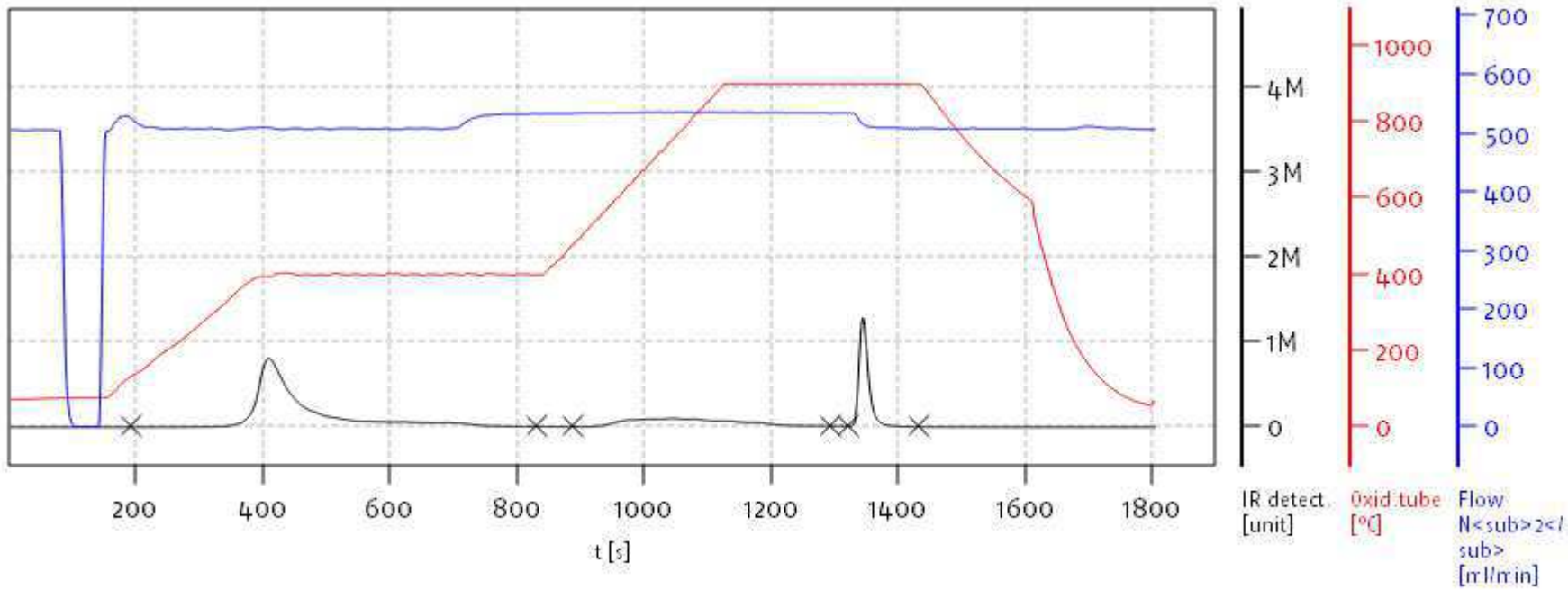
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
104	15	22L0155-25	525.00		CARBON	12/18/2022 4:05 PM	bl	0.921	2 485 870	1.155	0.244	854 639	817 392	0.677	0.233	0.9339	1.0000



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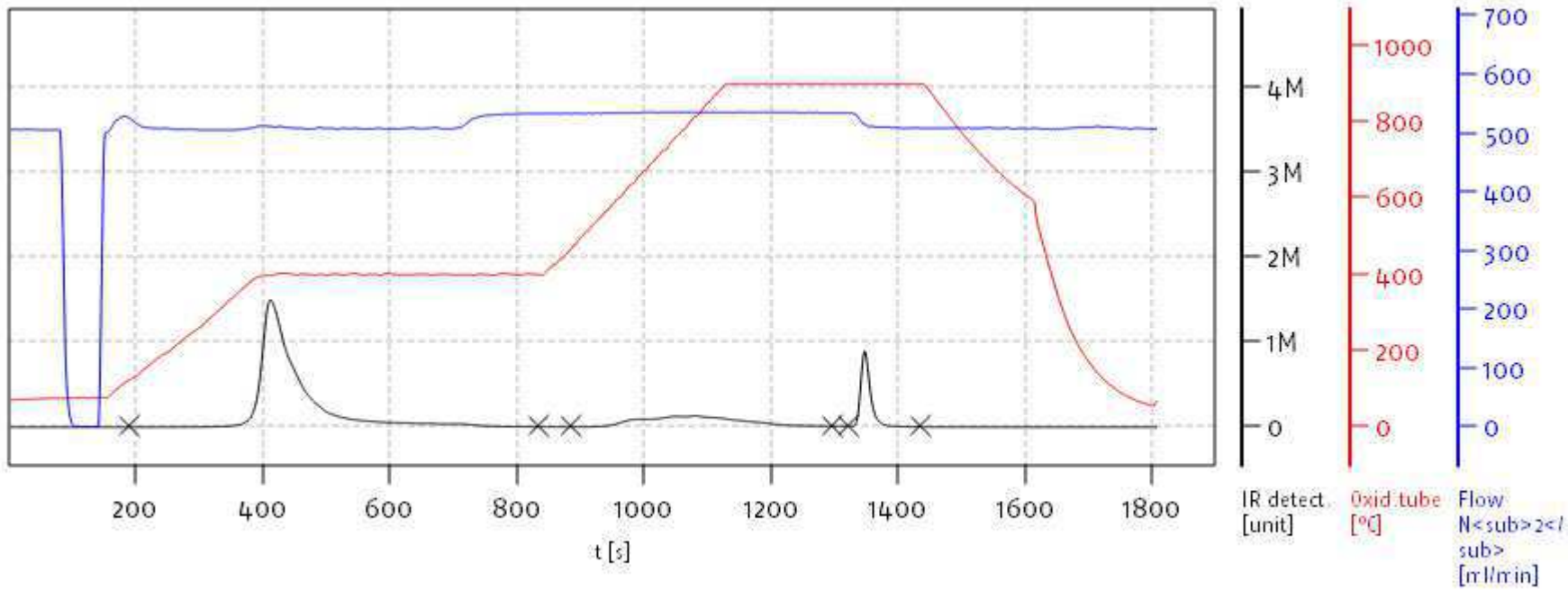
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
105	16	22L0155-26	550.10		CARBON	12/18/2022 4:36 PM	bl	1.135	3 729 610	1.395	0.161	600 257	951 434	0.973	0.260	0.9339	1.0000



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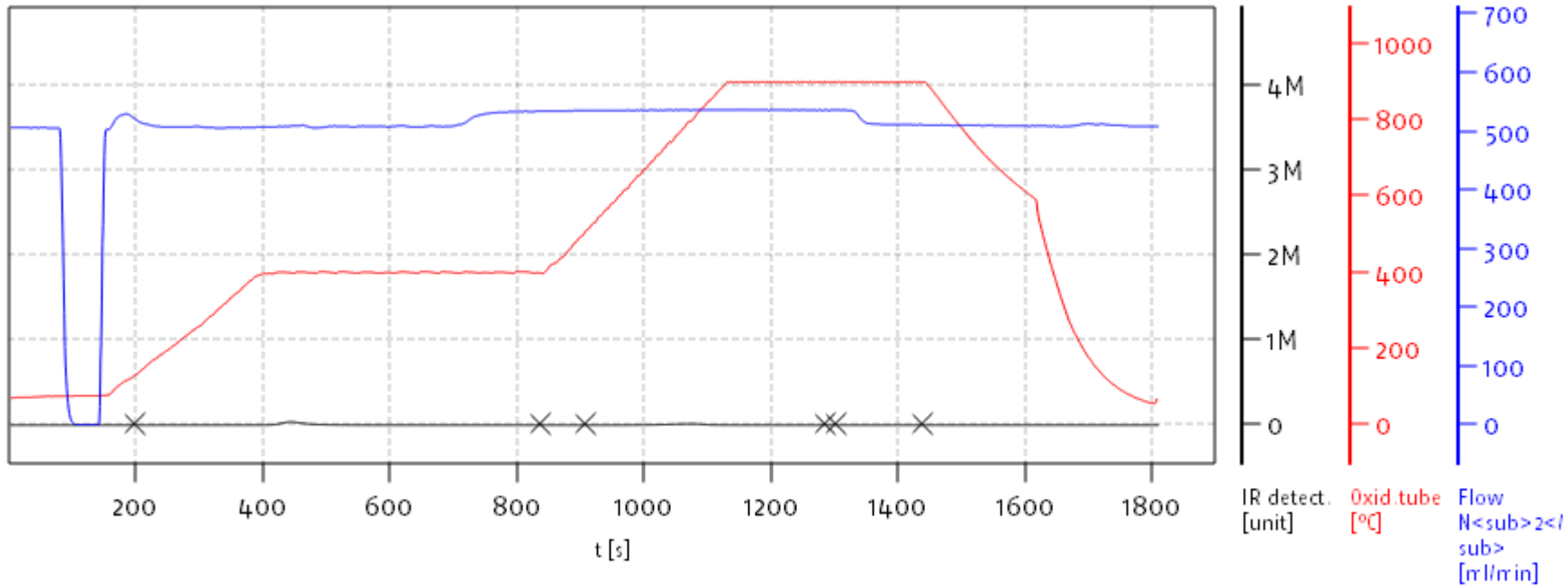
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
106	17	BKL0427-MRL1	510.50		CARBON	12/18/2022 5:06 PM	bl,C2u	0.011	66 562	0.014	0.000	325	35 996	0.011	0.003	0.9339	1.0000



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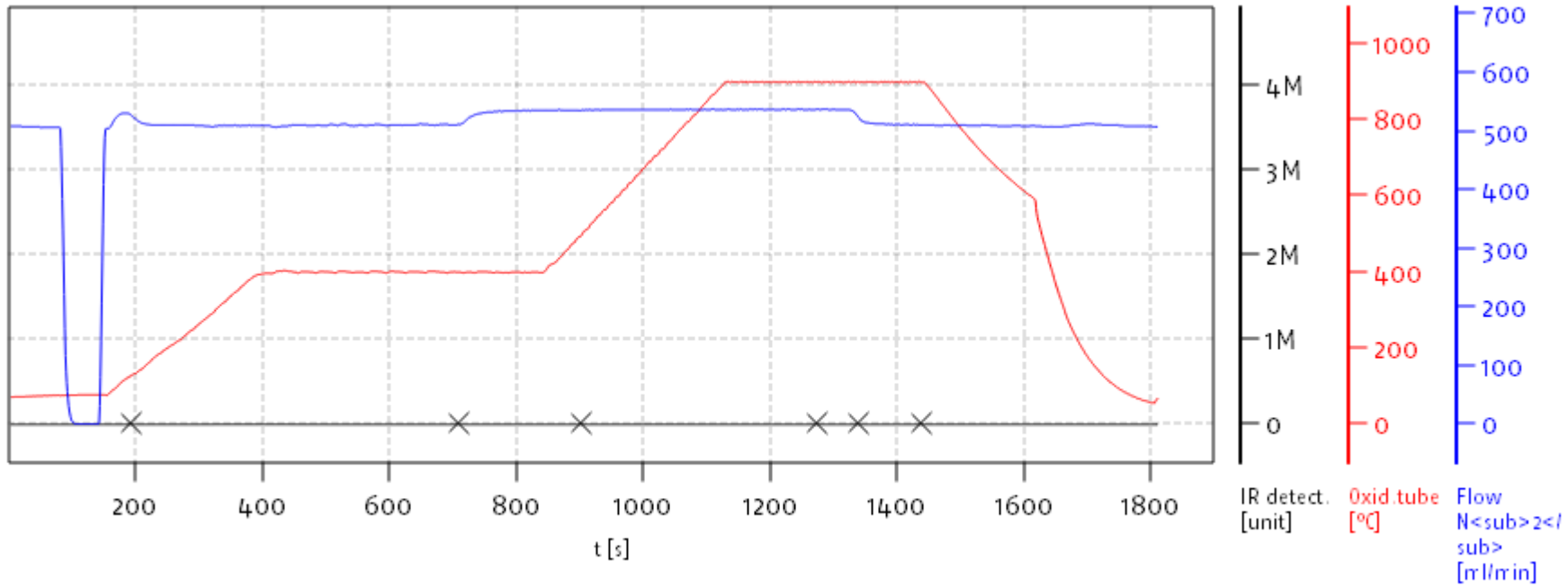
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
107	18	BKL0427-BLK1	512.90		CARBON	12/18/2022 5:37 PM	bl,C3u,C2u	0.000	7 326	0.000	0.000	336	1 287	0.000	0.000	0.9339	1.0000



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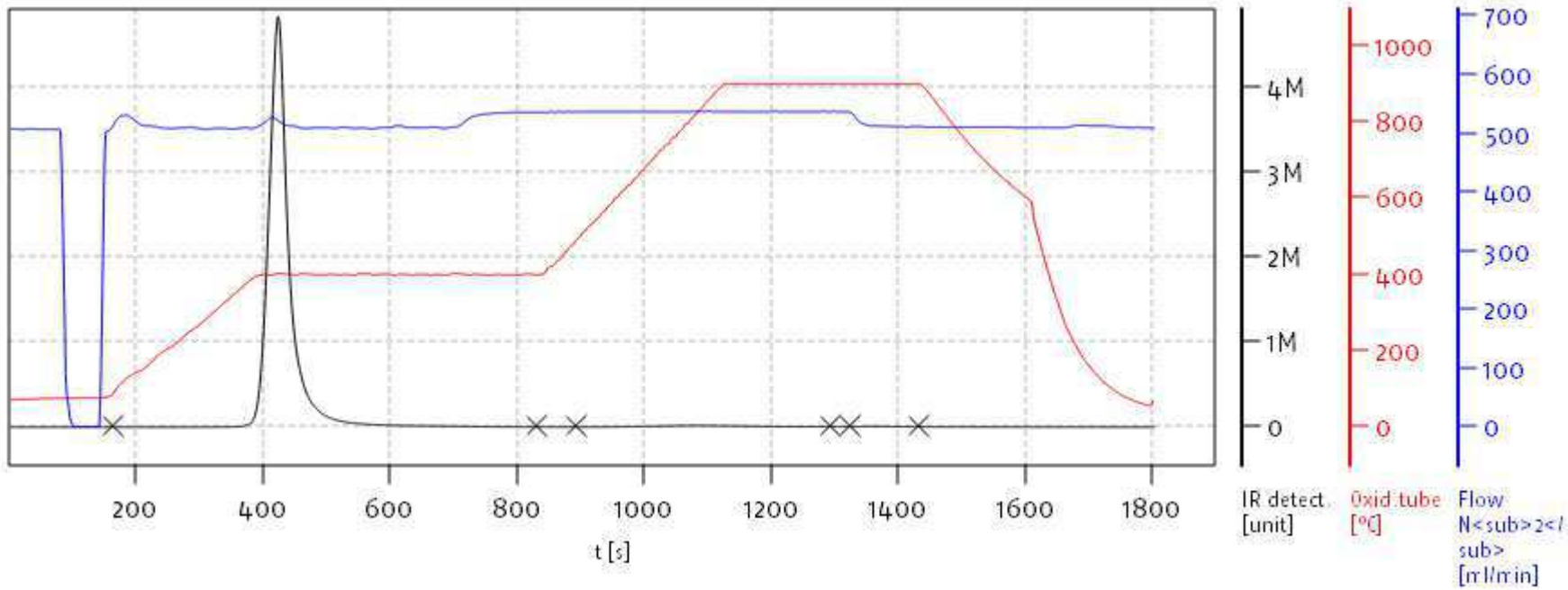
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
108	19	BKL0427-BS1	21.80		CARBON	12/18/2022 6:08 PM	bl	44.824	6 785 570	45.575	0.000	25 189	132 332	44.824	0.751	0.9339	1.0000



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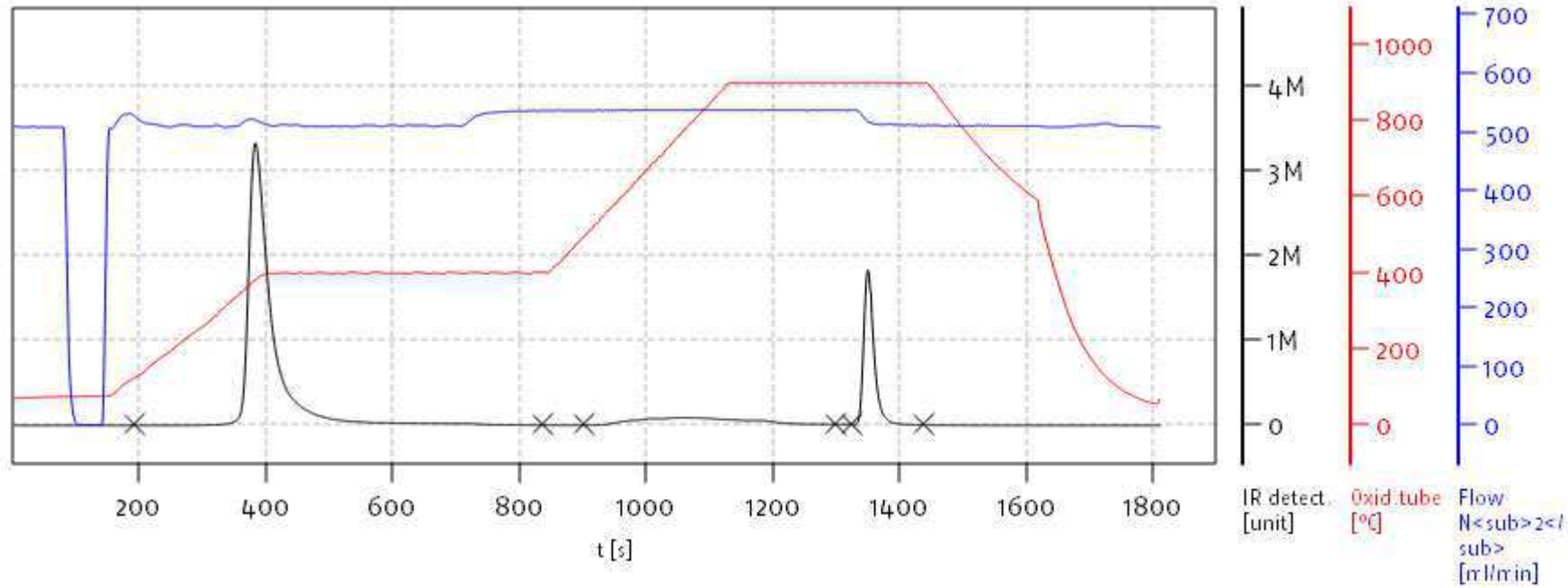
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
109	20	BKL0427-SRM1	311.00		CARBON	12/18/2022 6:38 PM	bl	3.048	5 204 460	3.404	0.641	1 314 380	742 484	2.407	0.356	0.9339	1.0000



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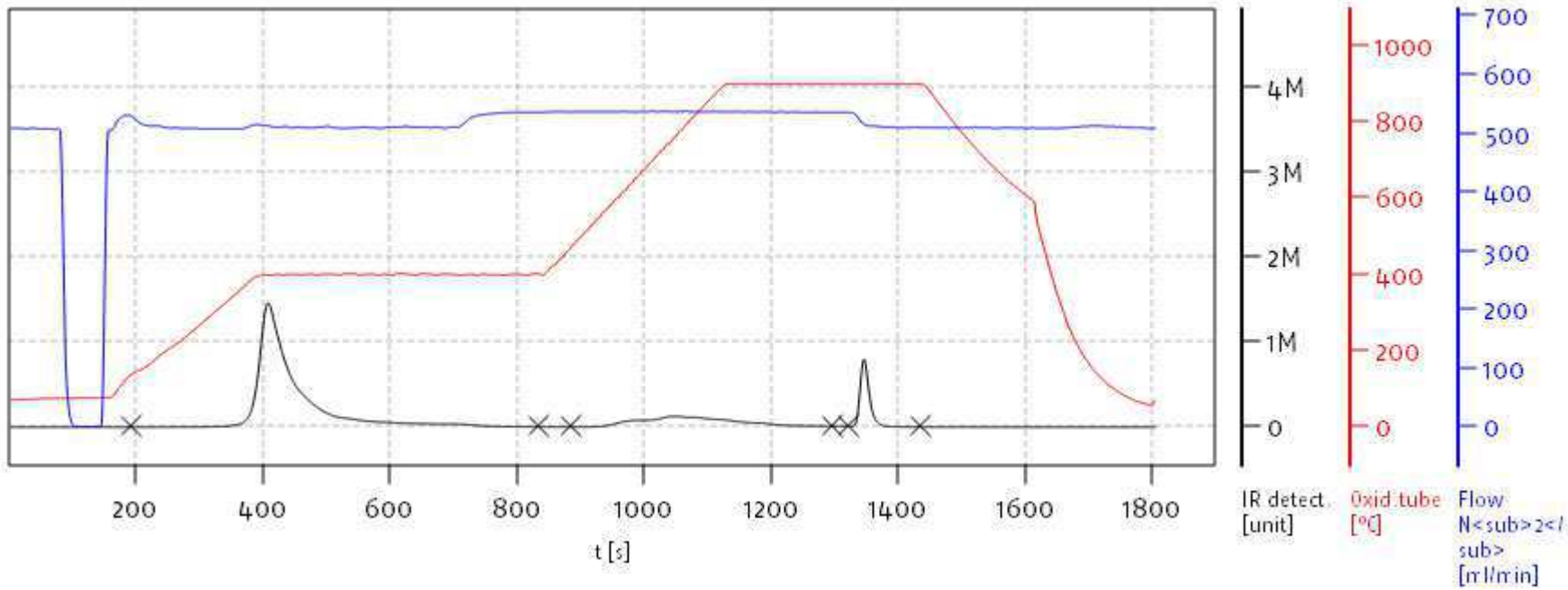
elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
110	21	22L0155-27	514.70		CARBON	12/18/2022 7:09 PM	bl	1.133	3 538 770	1.383	0.147	513 921	858 300	0.987	0.250	0.9339	1.0000



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Balance: BAL3
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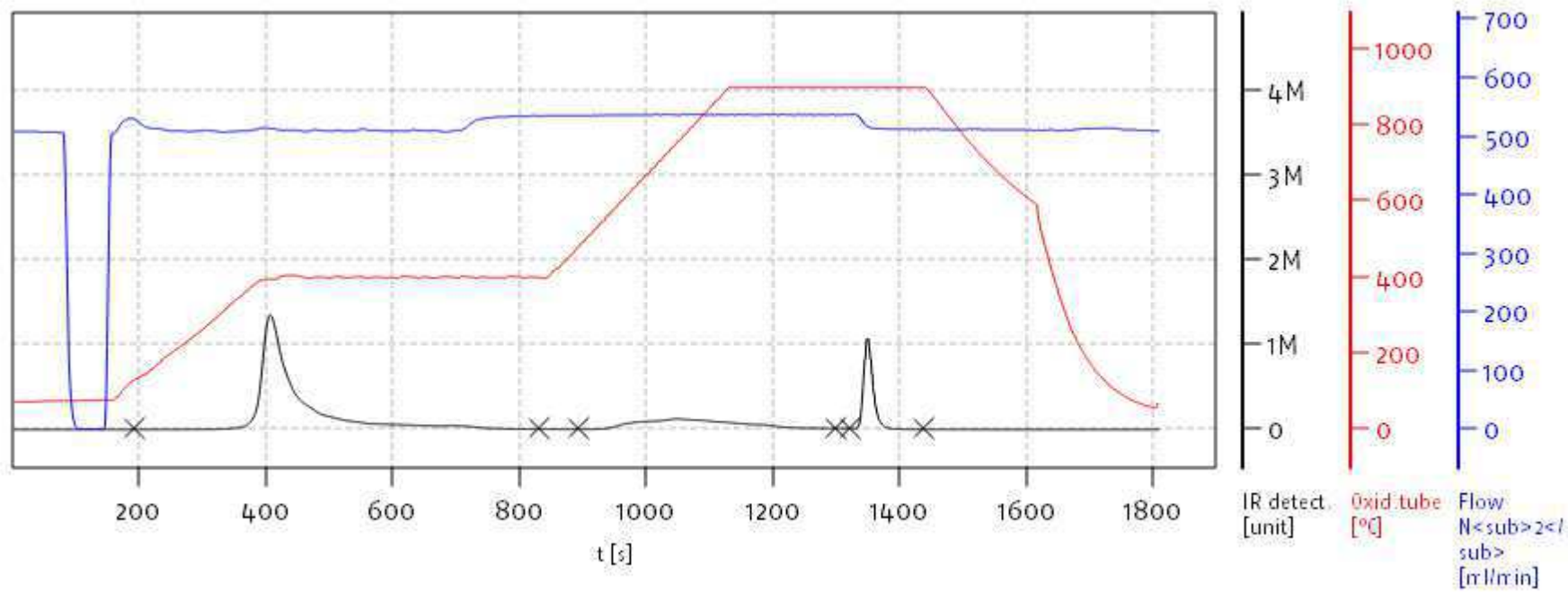
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
111	22	BKL0427-DUP1	513.40		CARBON	12/18/2022 7:39 PM	bl	1.089	3 165 300	1.358	0.205	705 330	919 454	0.884	0.269	0.9339	1.0000



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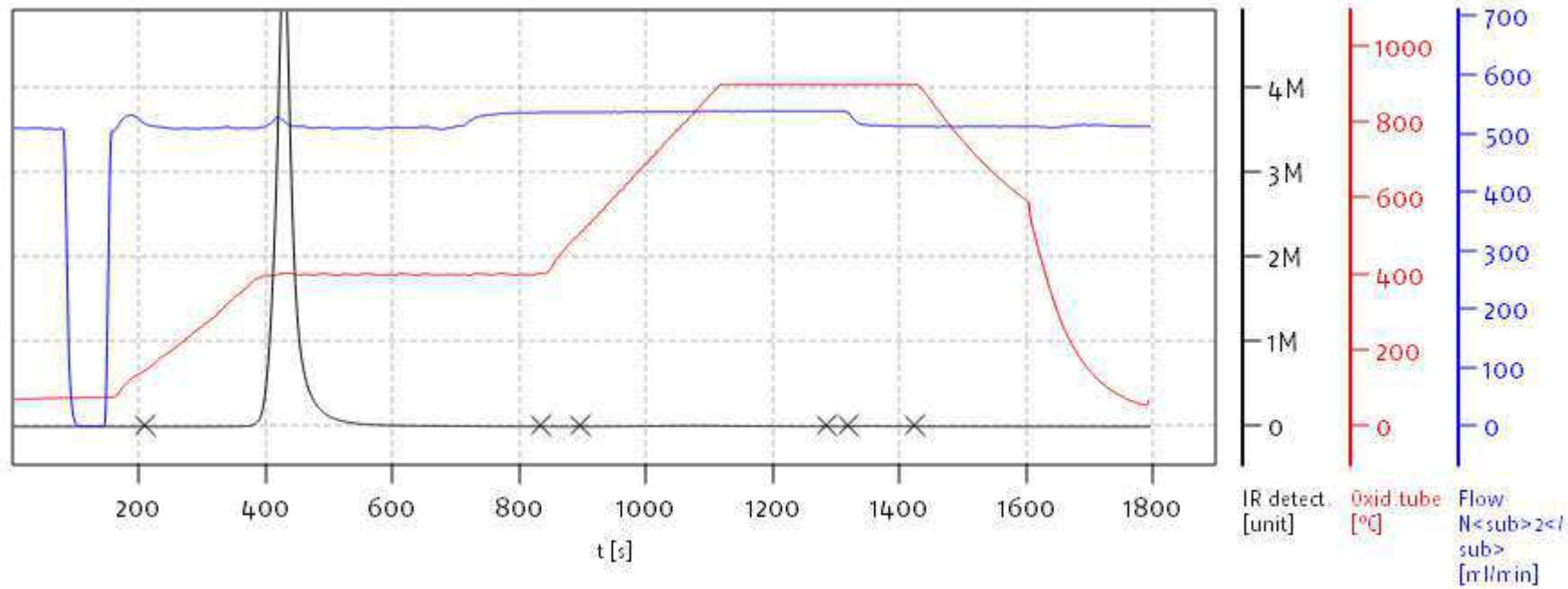
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
112	23	SKL0217-CCV9	21.30		CARBON	12/18/2022 8:09 PM	bl	45.314	6 702 750	45.672	0.000	13 935	75 912	45.314	0.359	0.9339	1.0000



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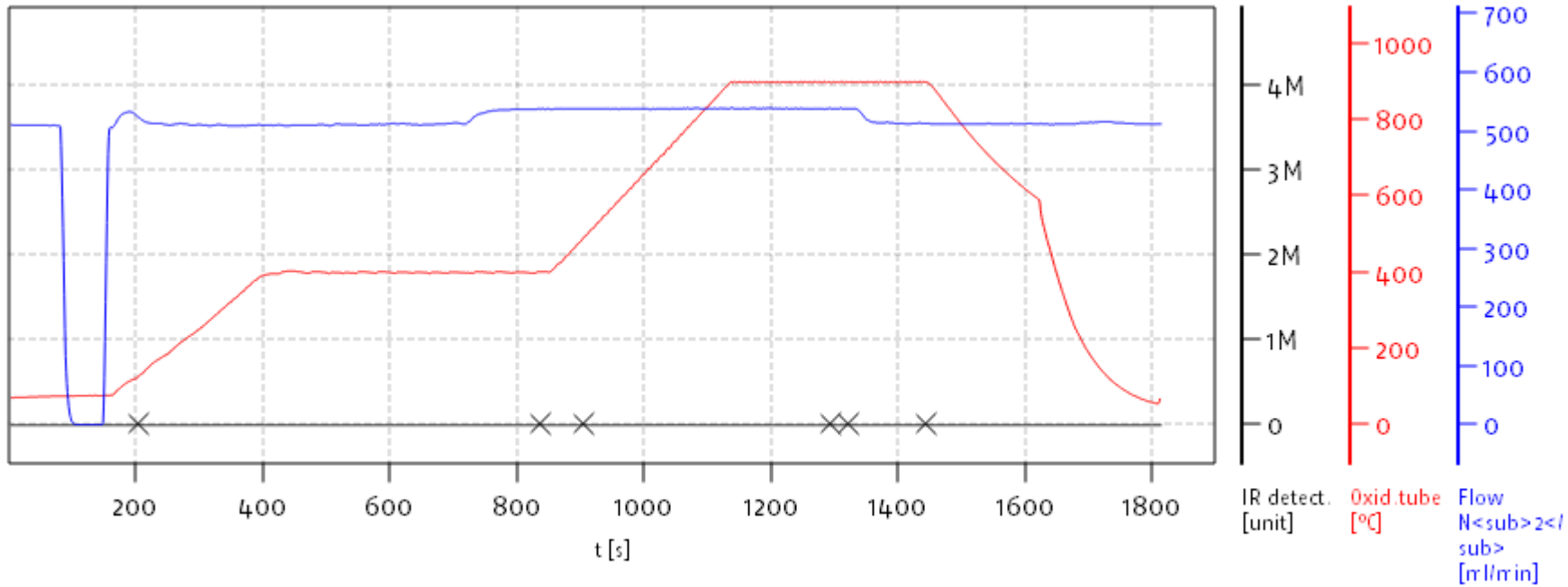
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
113	24	SKL0217-CCB9	508.00		CARBON	12/18/2022 8:40 PM	bl,C2u	0.000	4 634	0.000	0.000	485	3 595	0.000	0.000	0.9339	1.0000



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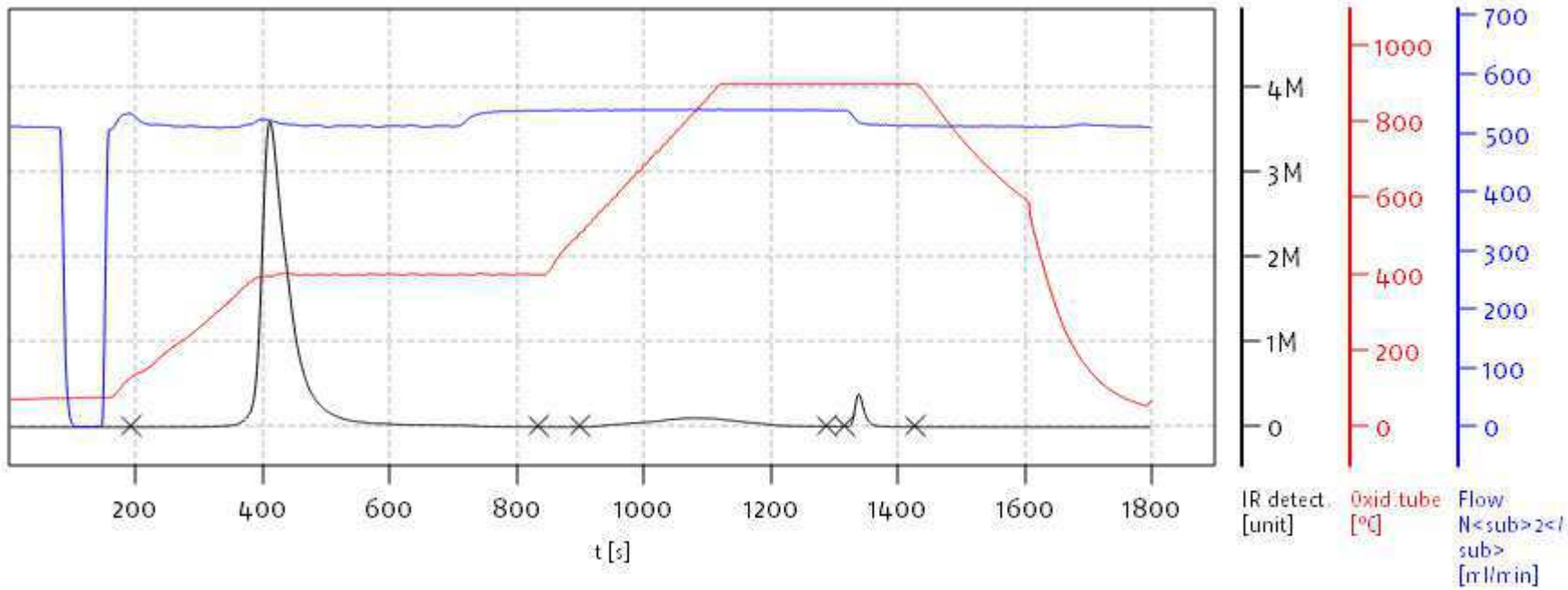
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
114	25	BKL0427-MS1	529.10	0.0087	CARBON	12/18/2022 9:11 PM	bl	1.940	6 878 110	2.144	0.068	258 197	722 779	1.872	0.204	0.9339	1.0000



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Balance: BAL3
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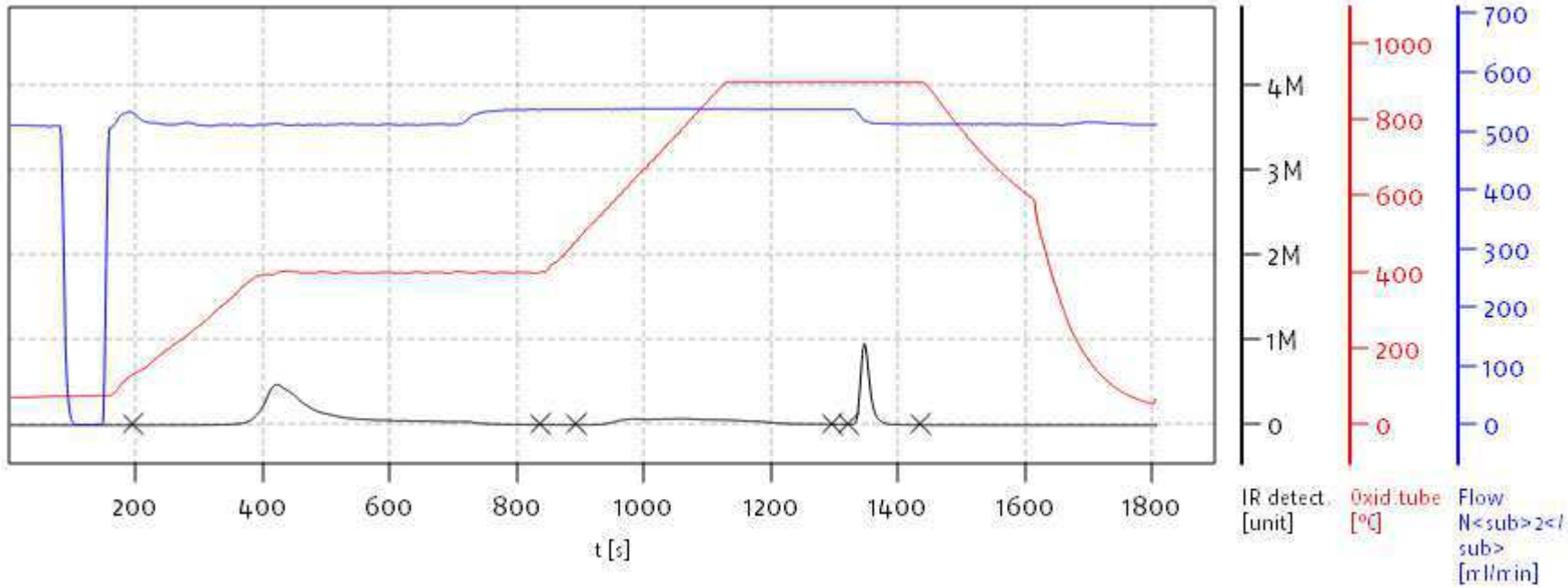
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
115	26	22L0155-28	540.40		CARBON	12/18/2022 9:41 PM	bl	0.660	1 850 440	0.841	0.172	627 969	656 593	0.488	0.180	0.9339	1.0000



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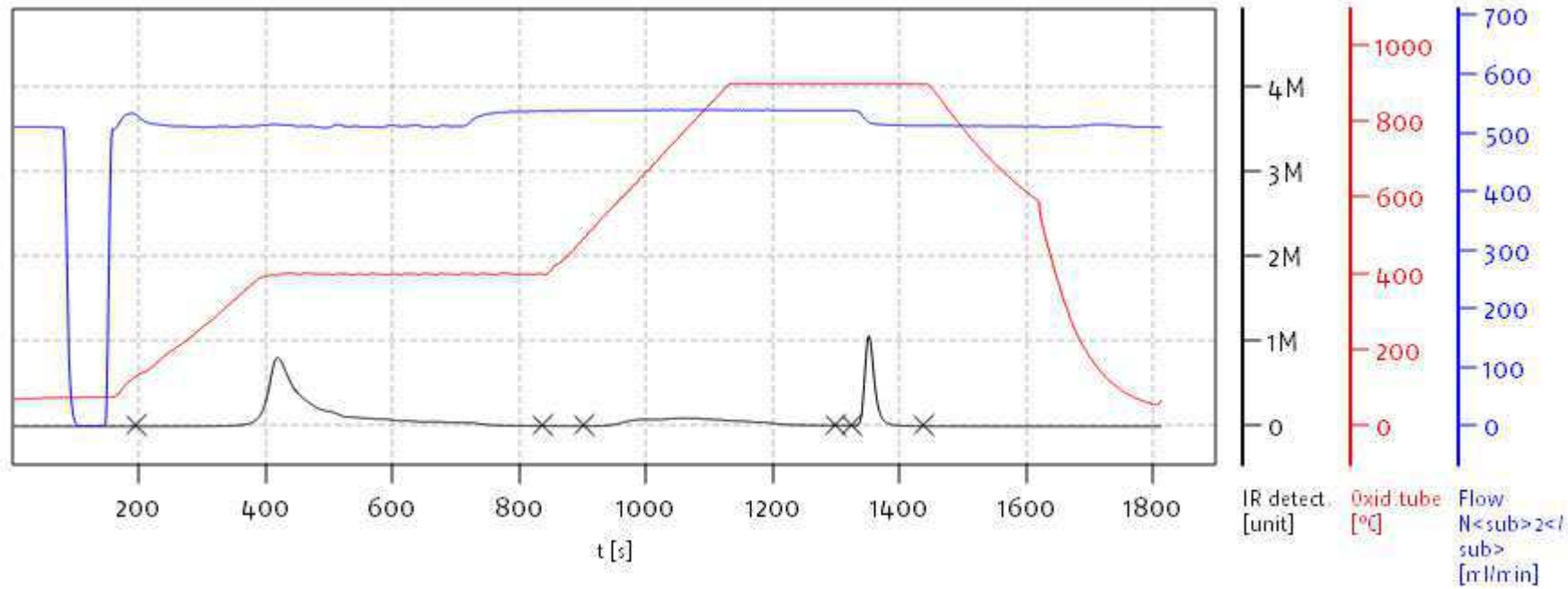
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
116	27	22L0155-29	512.90		CARBON	12/18/2022 10:12 PM	bl	0.903	2 468 130	1.124	0.215	738 726	757 098	0.688	0.220	0.9339	1.0000



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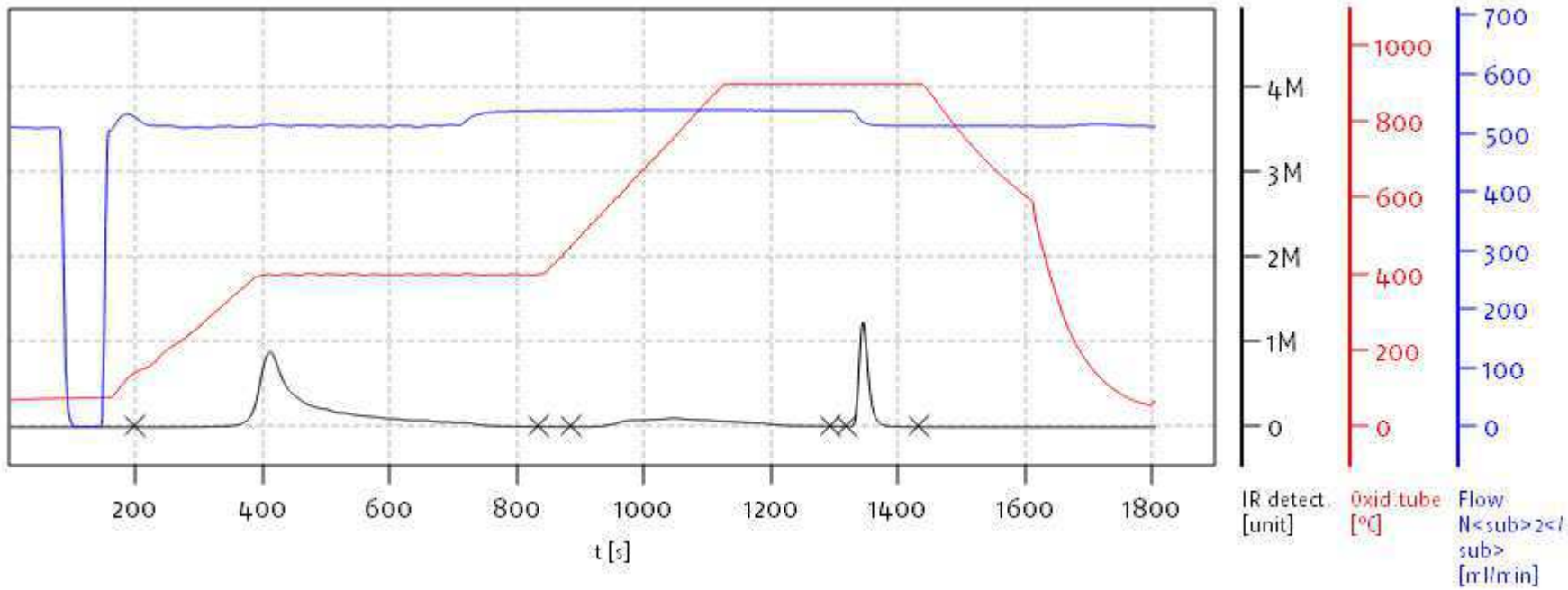
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
117	28	22L0155-30	534.80		CARBON	12/18/2022 10:42 PM	bl	1.023	2 977 200	1.237	0.226	805 951	764 278	0.798	0.214	0.9339	1.0000



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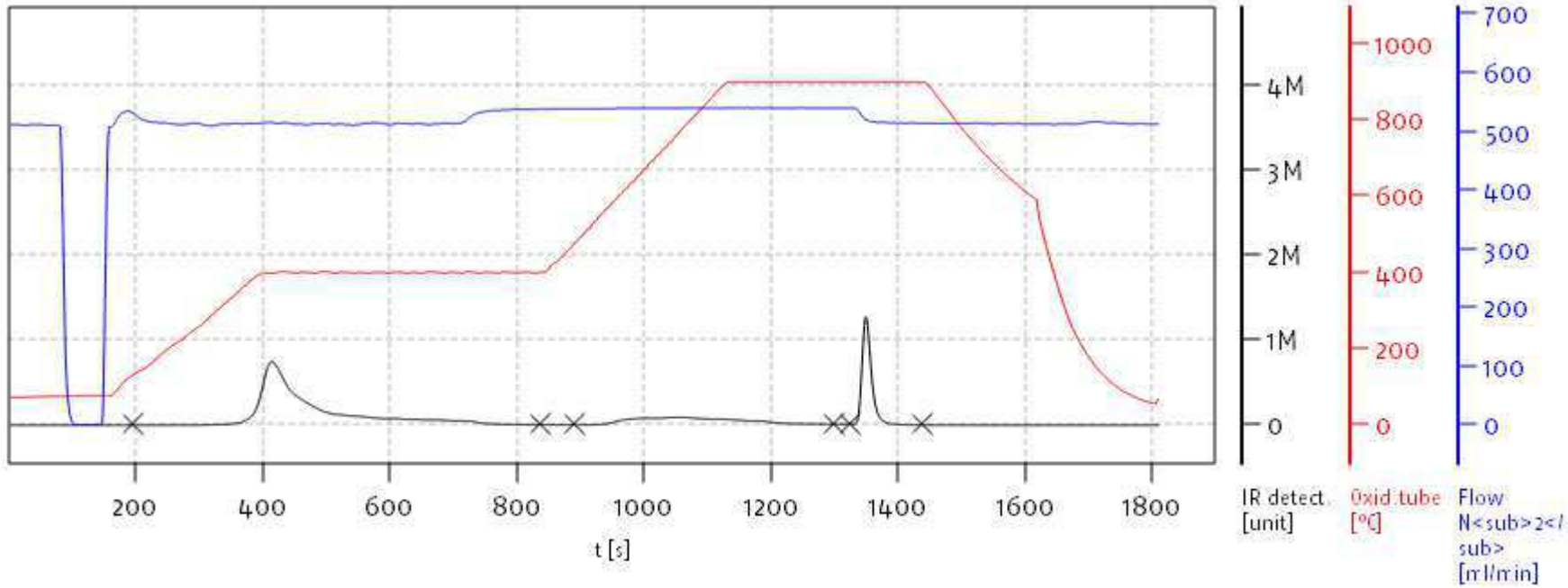
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
118	29	22L0155-31	501.70		CARBON	12/18/2022 11:13 PM	bl	0.965	2 516 370	1.186	0.248	830 152	742 498	0.717	0.221	0.9339	1.0000



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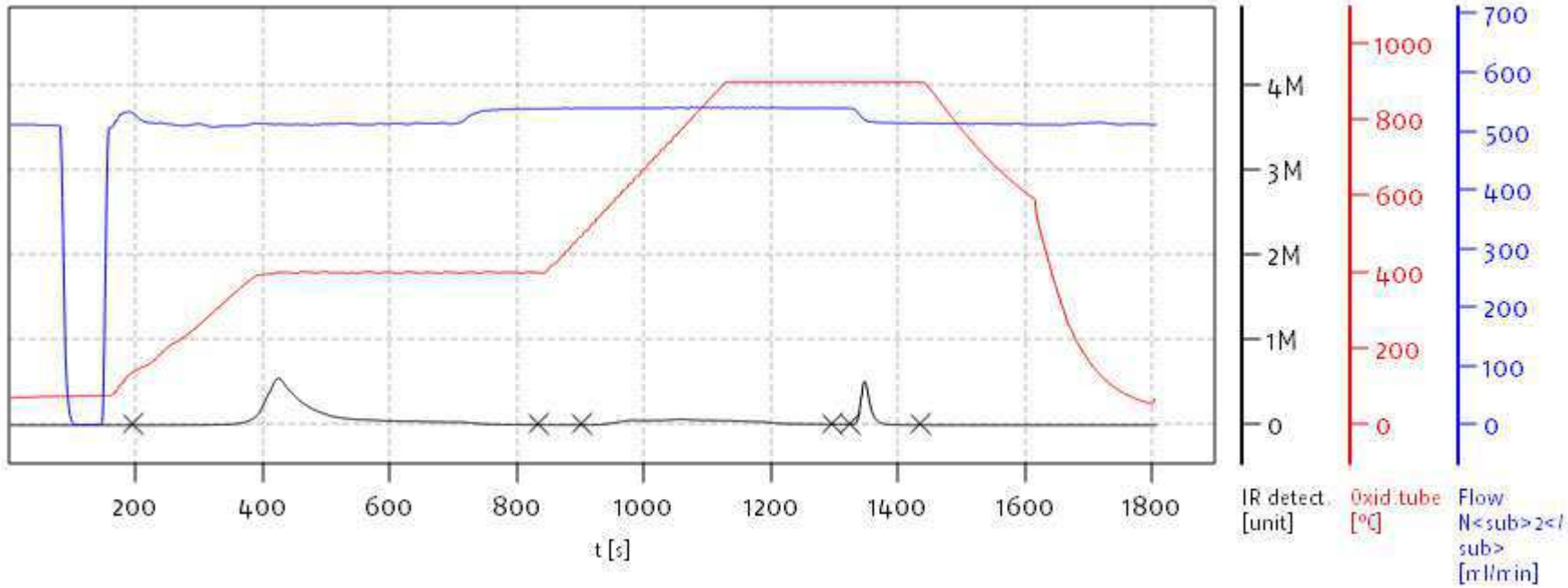
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
119	30	22L0155-32	529.40		CARBON	12/18/2022 11:43 PM	bl	0.588	1 850 130	0.743	0.090	335 540	556 687	0.498	0.155	0.9339	1.0000



Name:

Access: soliTOC superuser

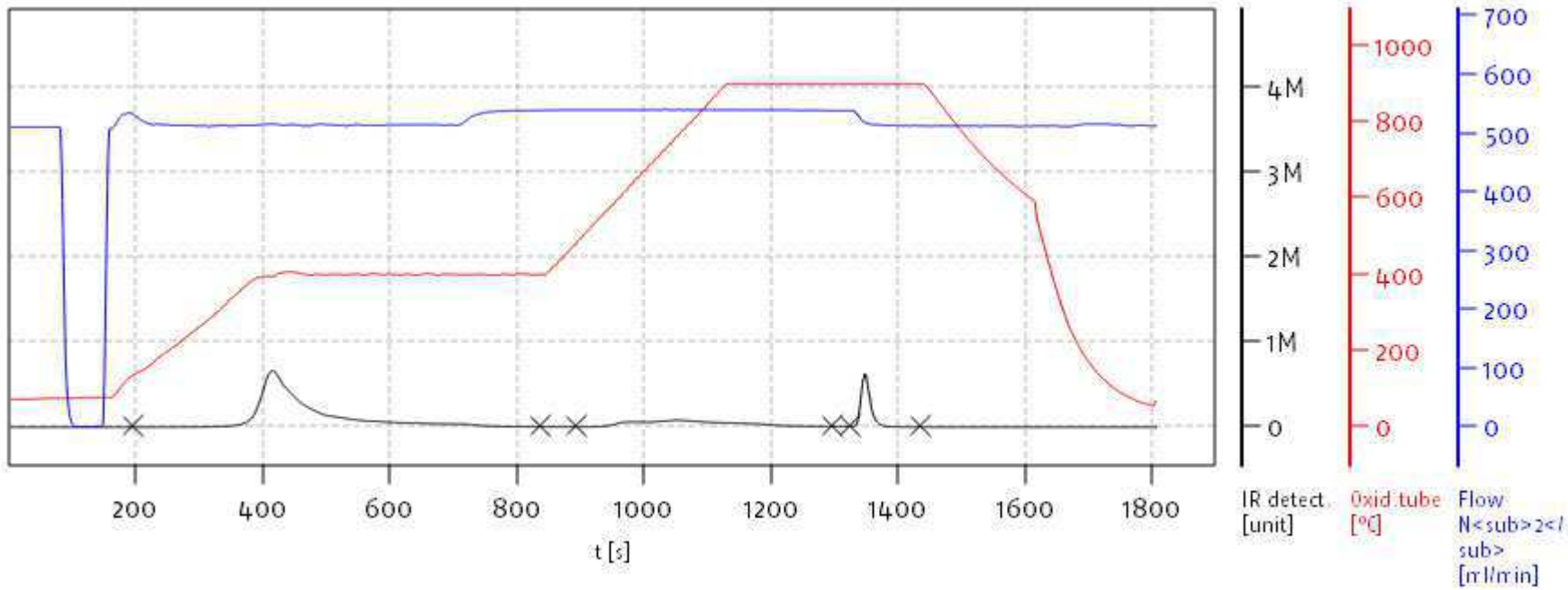
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
120	31	22L0155-33	501.10		CARBON	12/19/2022 12:14 AM	bl	0.749	2 216 440	0.922	0.117	404 831	589 218	0.632	0.174	0.9339	1.0000



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Access: soliTOC superuser

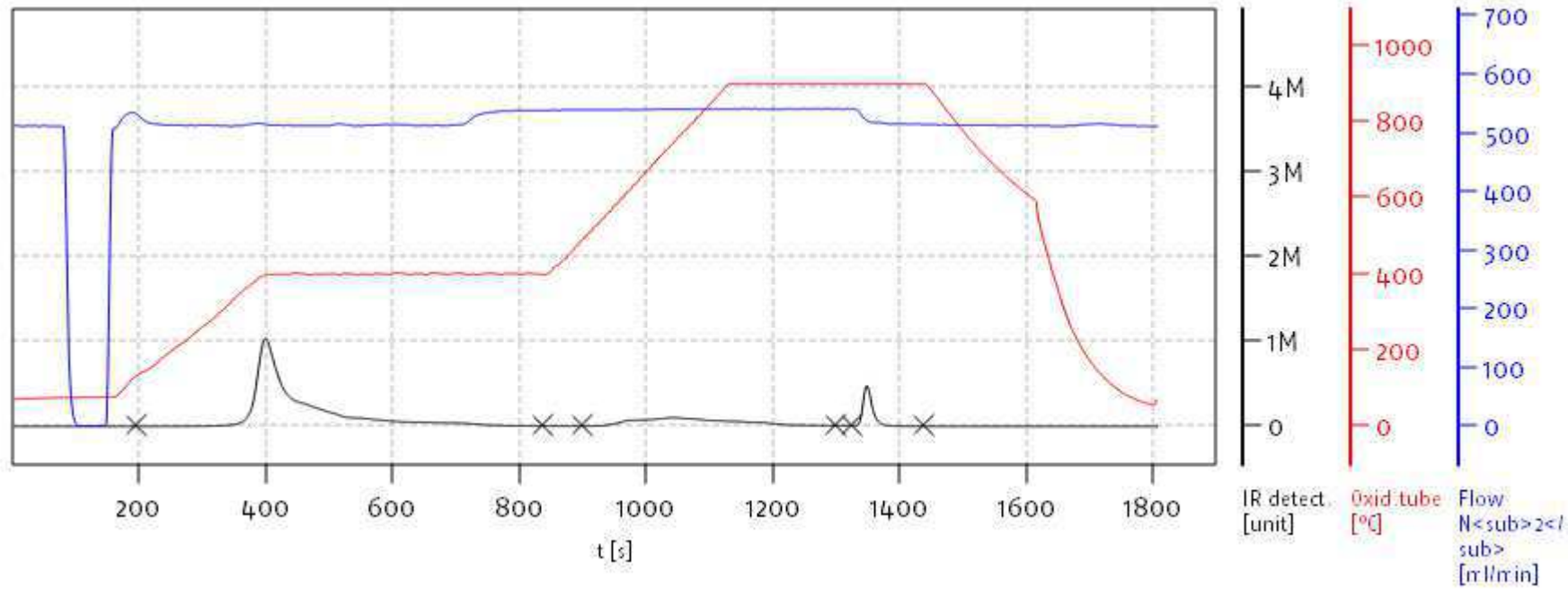
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
121	32	22L0155-34	503.70		CARBON	12/19/2022 12:44 AM	bl	0.880	2 789 390	1.097	0.087	310 682	730 848	0.793	0.216	0.9339	1.0000



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Access: soliTOC superuser

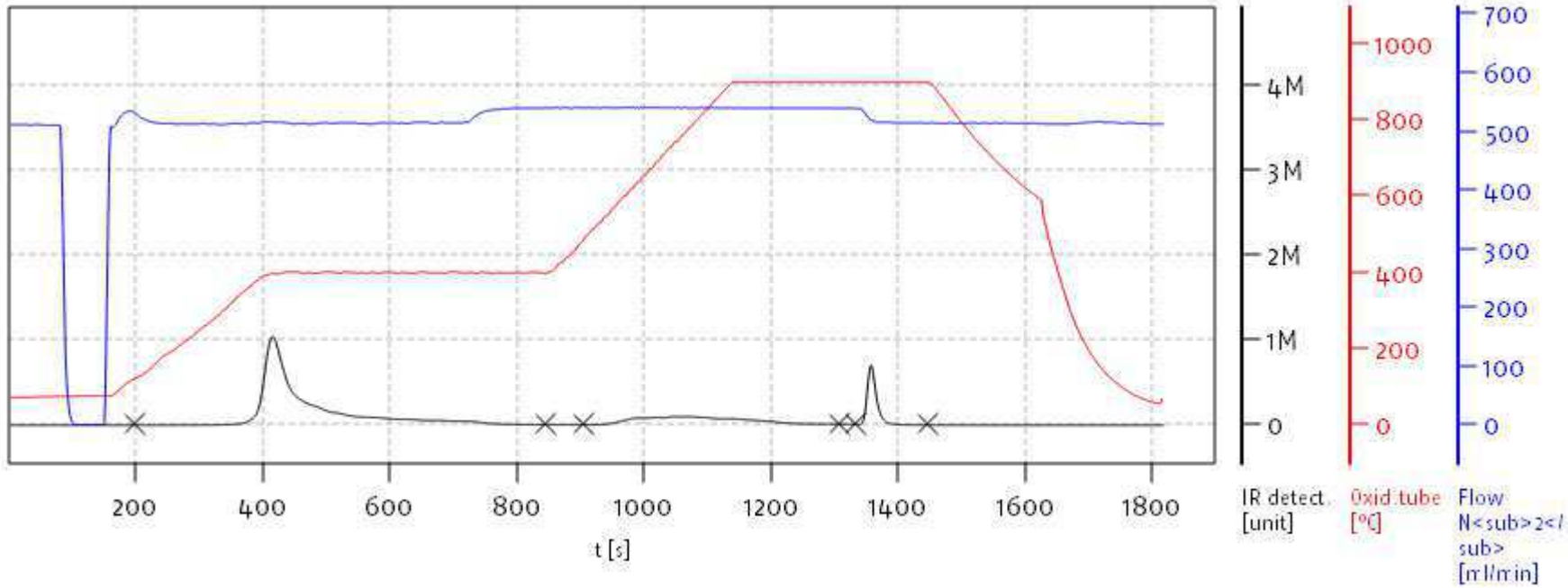
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
122	33	22L0155-35	541.60		CARBON	12/19/2022 1:15 AM	bl	0.845	2 733 430	1.068	0.122	453 399	806 624	0.723	0.223	0.9339	1.0000



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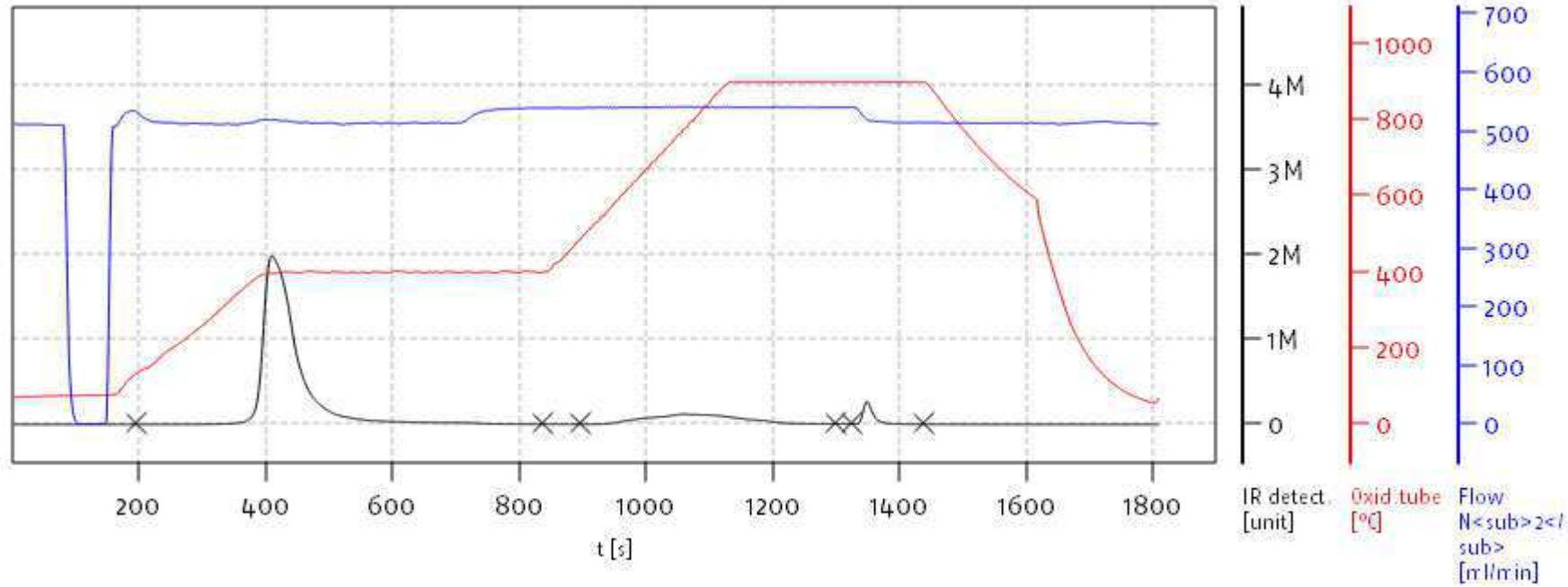
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
123	34	22L0155-36	622.50		CARBON	12/19/2022 1:46 AM	bl	1.094	4 560 040	1.287	0.041	191 970	804 056	1.053	0.193	0.9339	1.0000



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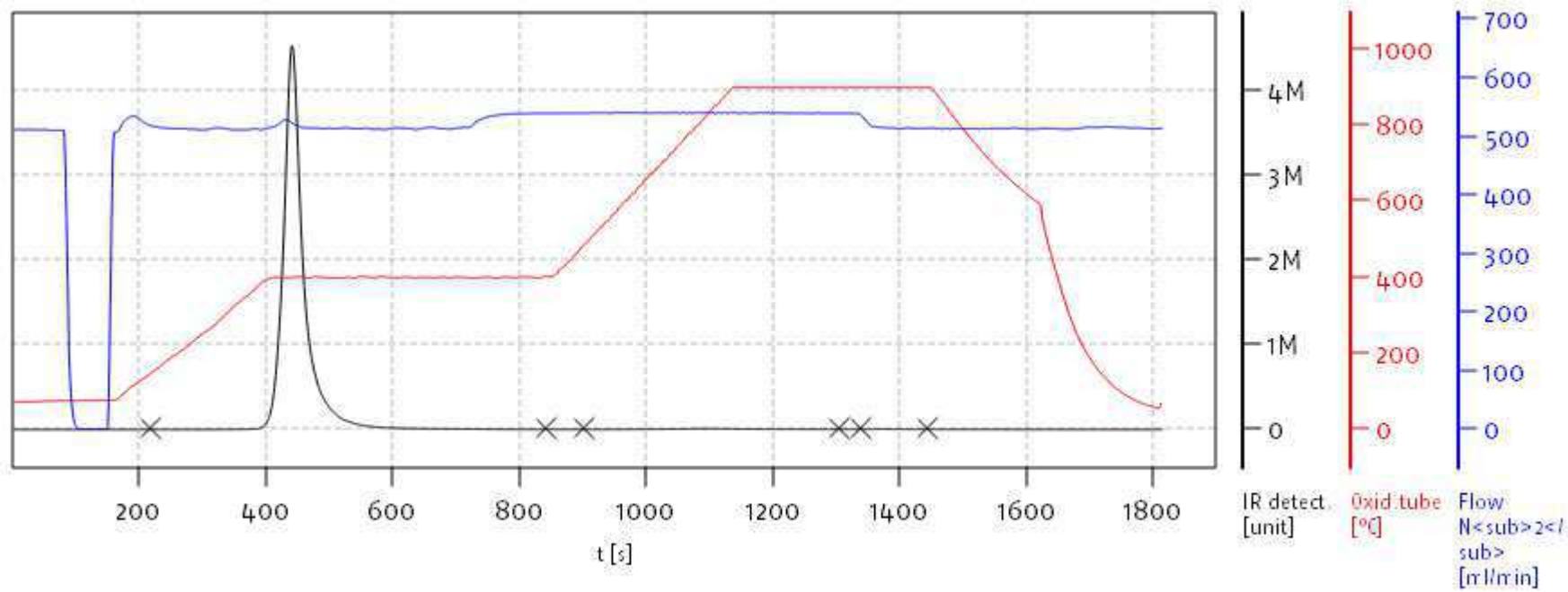
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
124	35	SKL0217-CCVA	20.30		CARBON	12/19/2022 2:16 AM	bl	44.705	6 303 870	45.068	0.000	15 233	74 069	44.705	0.362	0.9339	1.0000



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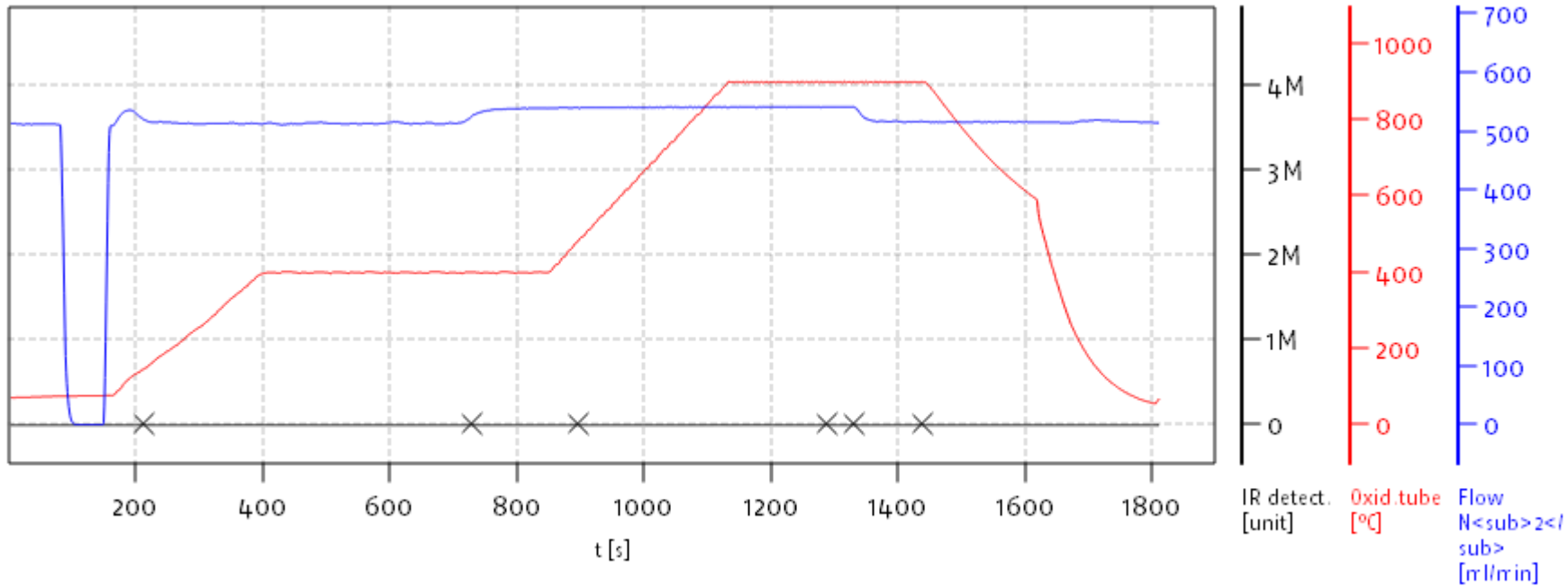
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
125	36	SKL0217-CCBA	505.40		CARBON	12/19/2022 2:47 AM	bl,C2u	0.000	3 891	0.000	0.000	329	3 860	0.000	0.000	0.9339	1.0000



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Date: Wed Dec 21 09:58:21 2022

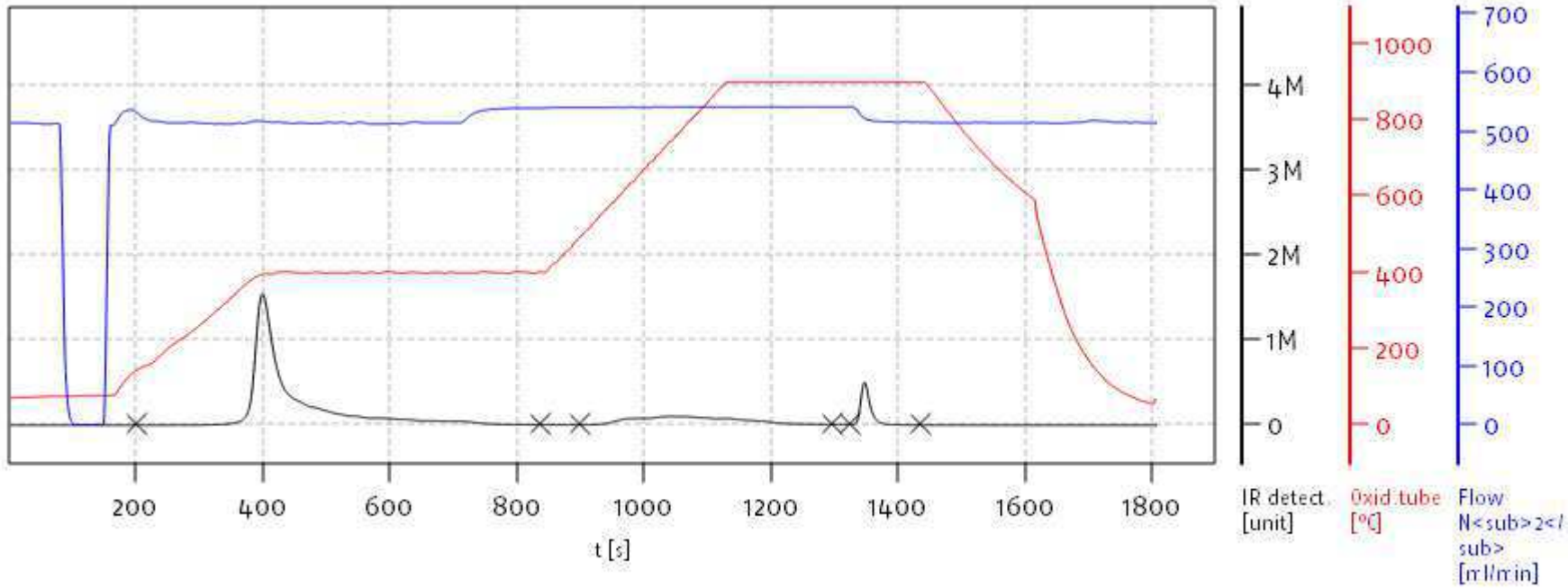
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
126	37	22L0155-37	537.10		CARBON	12/19/2022 3:17 AM	bl	0.983	3 350 610	1.208	0.089	333 816	804 873	0.895	0.224	0.9339	1.0000



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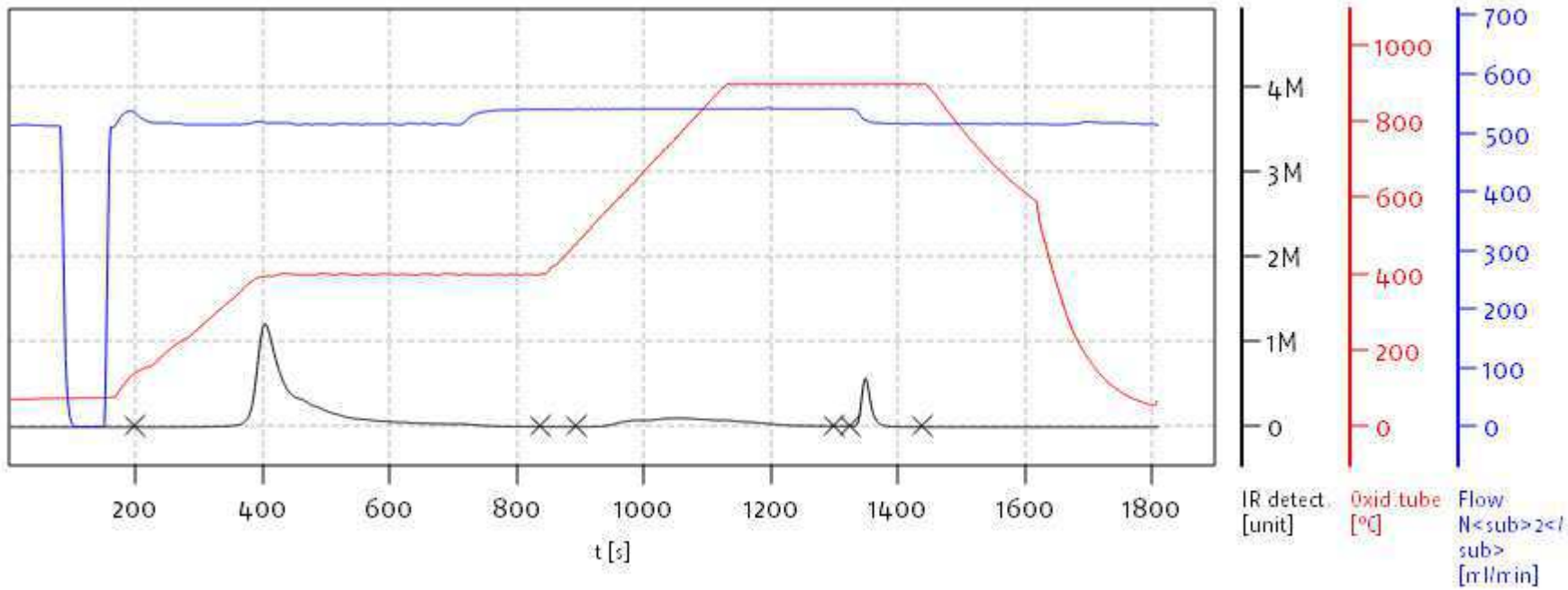
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
127	38	22L0155-38	515.40		CARBON	12/19/2022 3:48 AM	bl	0.970	3 111 150	1.206	0.105	375 718	811 807	0.865	0.236	0.9339	1.0000



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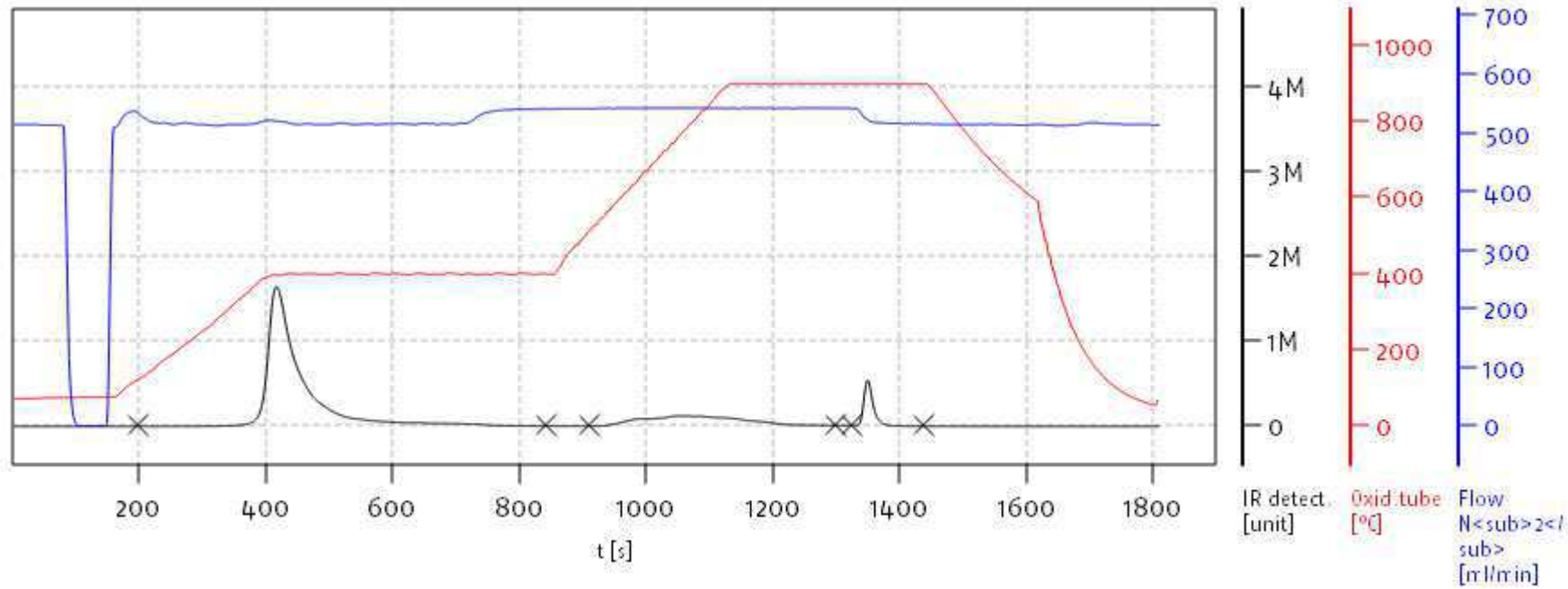
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
128	39	22L0155-39	573.30		CARBON	12/19/2022 4:18 AM	bl	1.017	3 702 650	1.258	0.090	359 396	920 469	0.927	0.241	0.9339	1.0000



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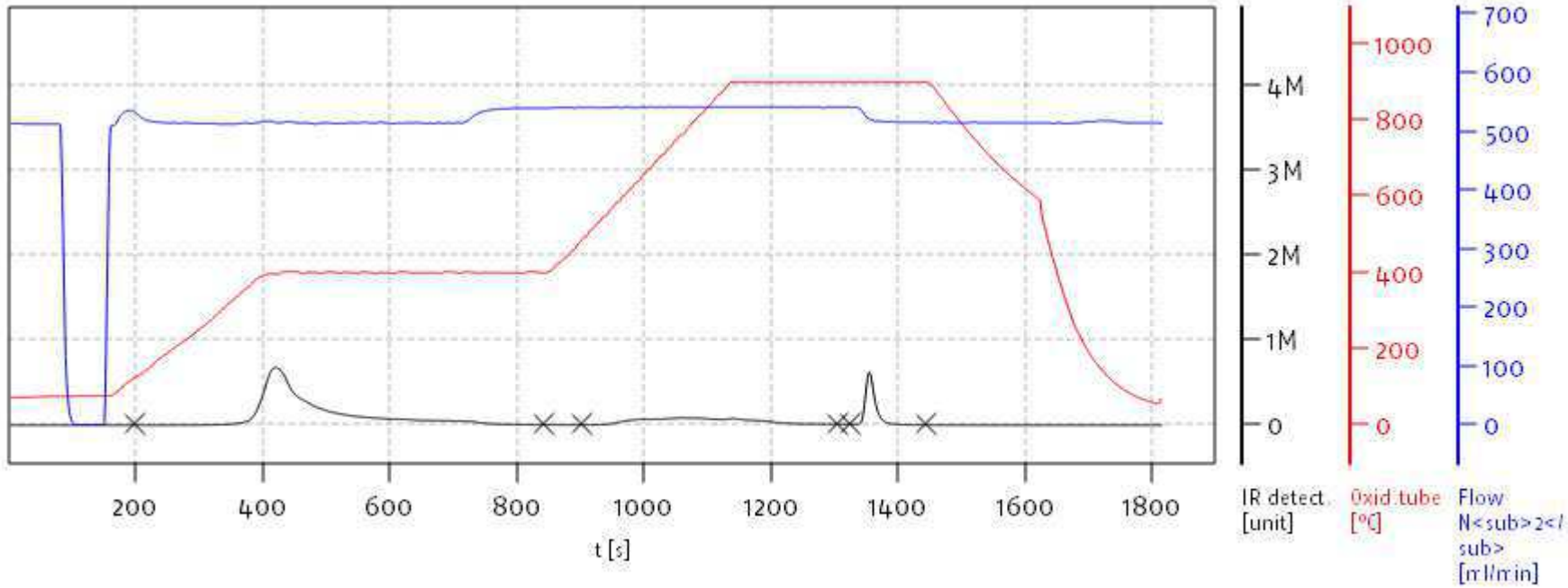
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
129	40	22L0155-40	516.70		CARBON	12/19/2022 4:49 AM	bl	0.792	2 433 790	0.996	0.118	421 587	708 183	0.674	0.204	0.9339	1.0000



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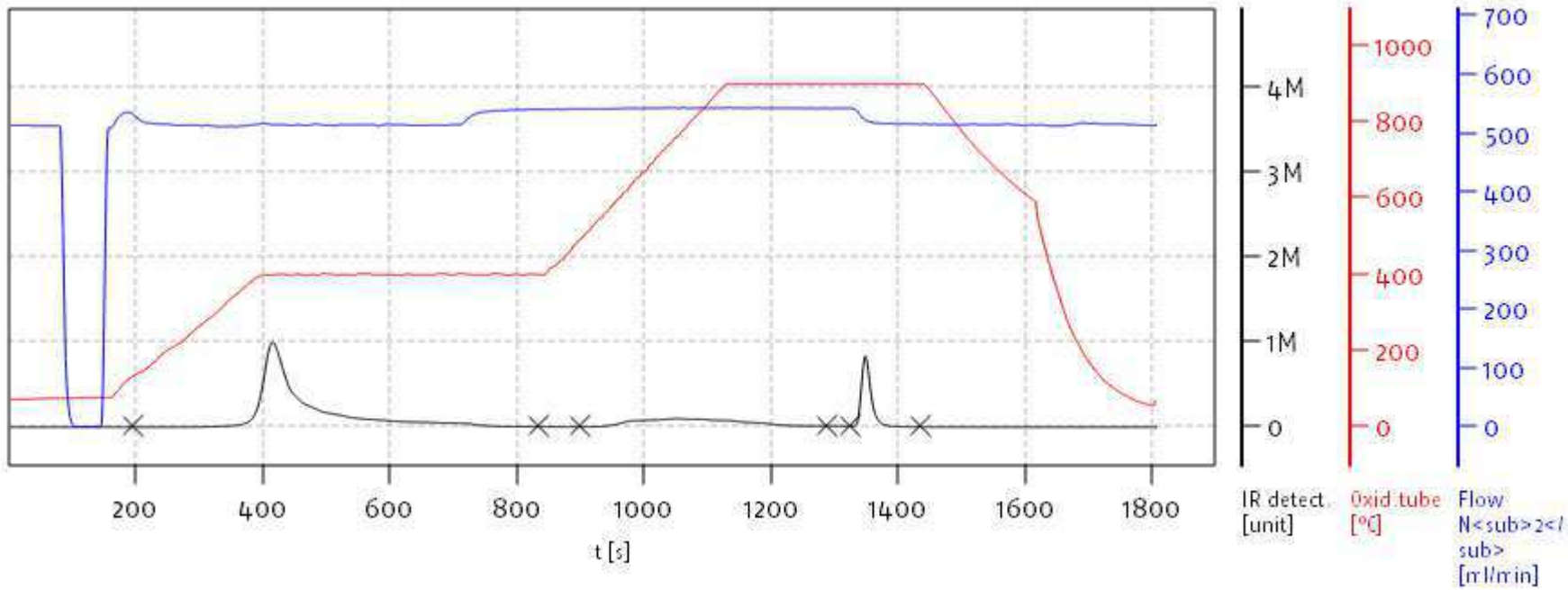
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
130	41	22L0155-41	500.90		CARBON	12/19/2022 5:20 AM	bl	0.953	2 757 590	1.183	0.165	560 587	770 733	0.788	0.230	0.9339	1.0000



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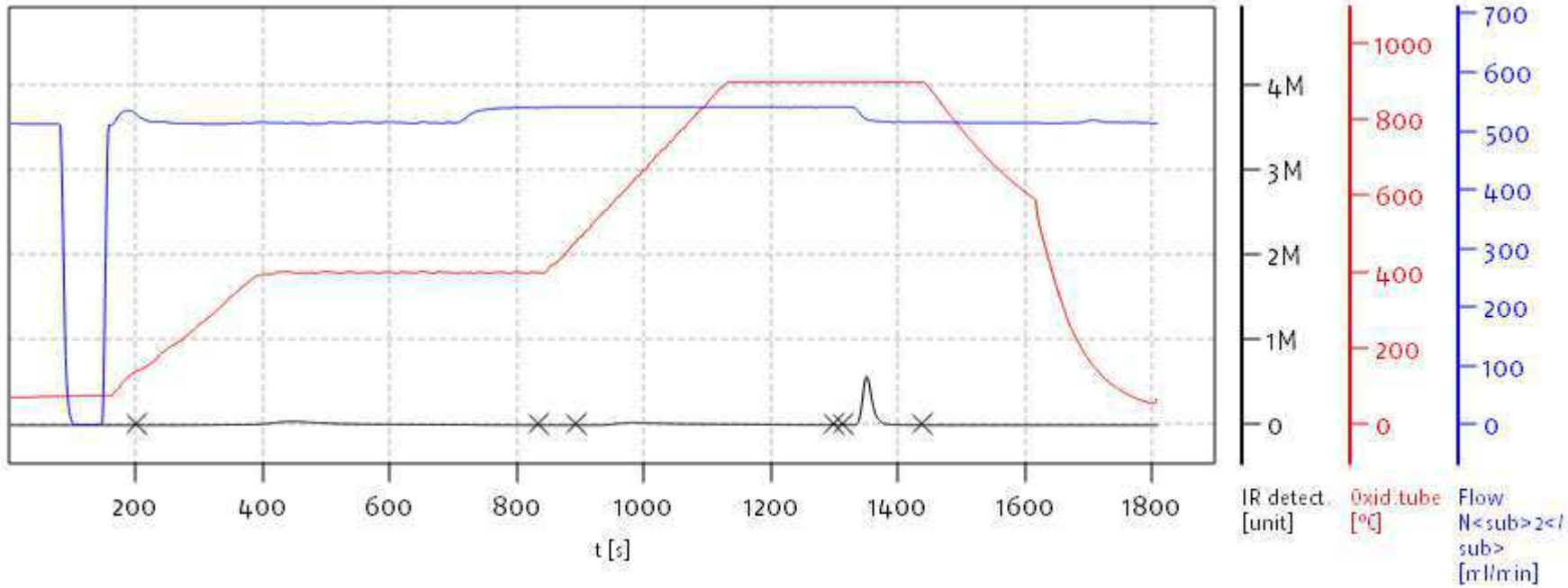
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
131	42	22L0155-42	502.30		CARBON	12/19/2022 5:50 AM	bl	0.169	231 882	0.212	0.110	384 258	164 325	0.059	0.042	0.9339	1.0000



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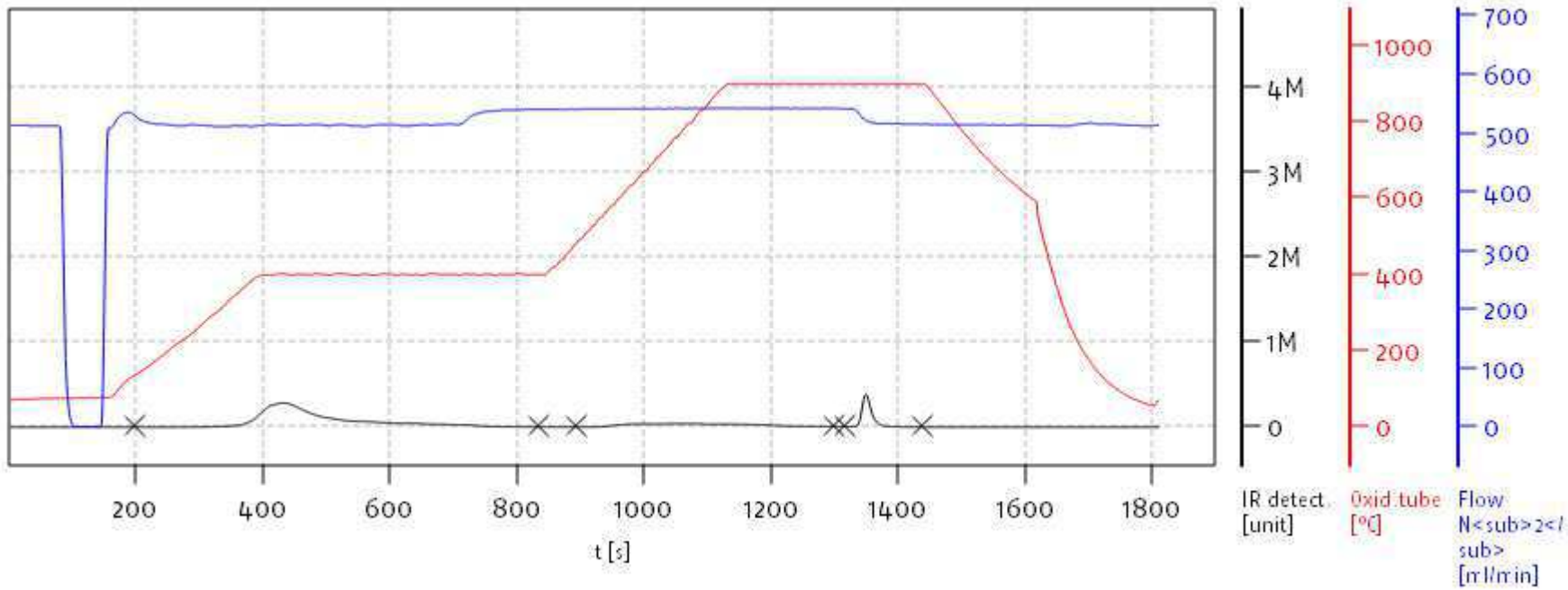
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
132	43	22L0155-43	509.80		CARBON	12/19/2022 6:21 AM	bl	0.463	1 409 690	0.566	0.071	259 052	365 753	0.392	0.103	0.9339	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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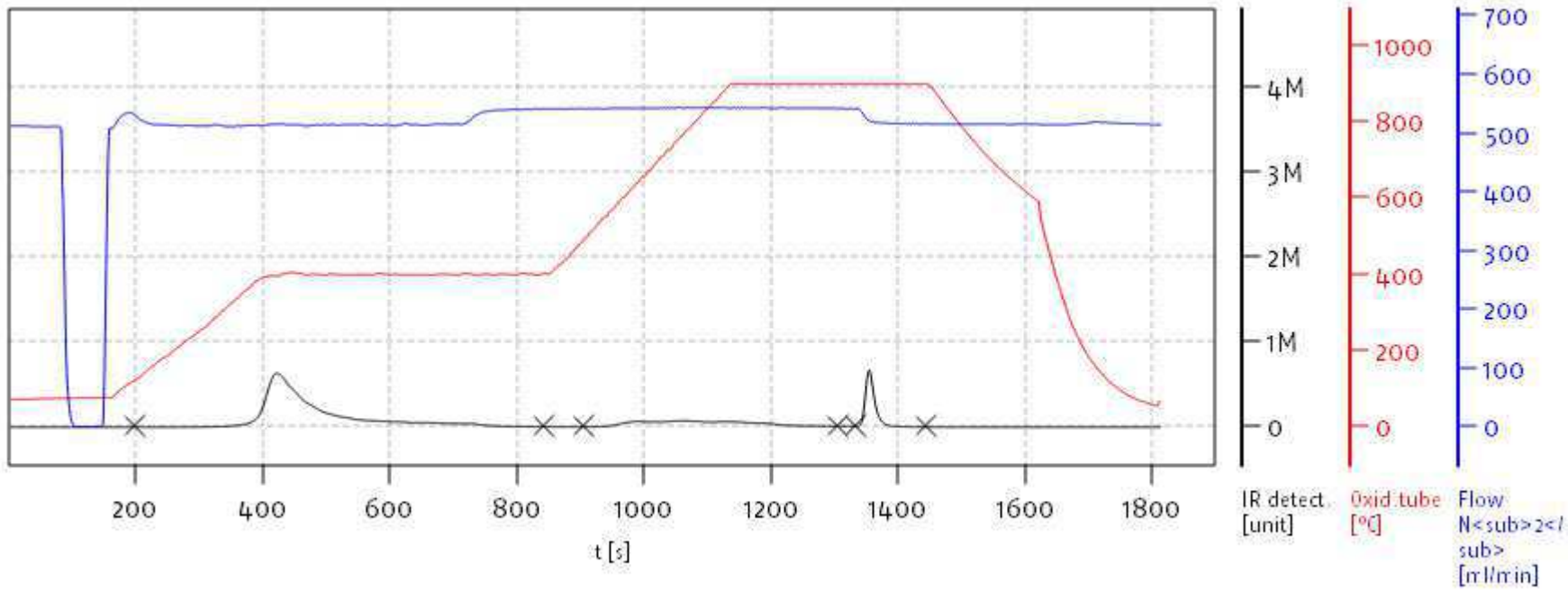
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
133	44	22L0155-44	522.10		CARBON	12/19/2022 6:51 AM	bl	0.740	2 258 700	0.919	0.122	436 962	632 127	0.618	0.180	0.9339	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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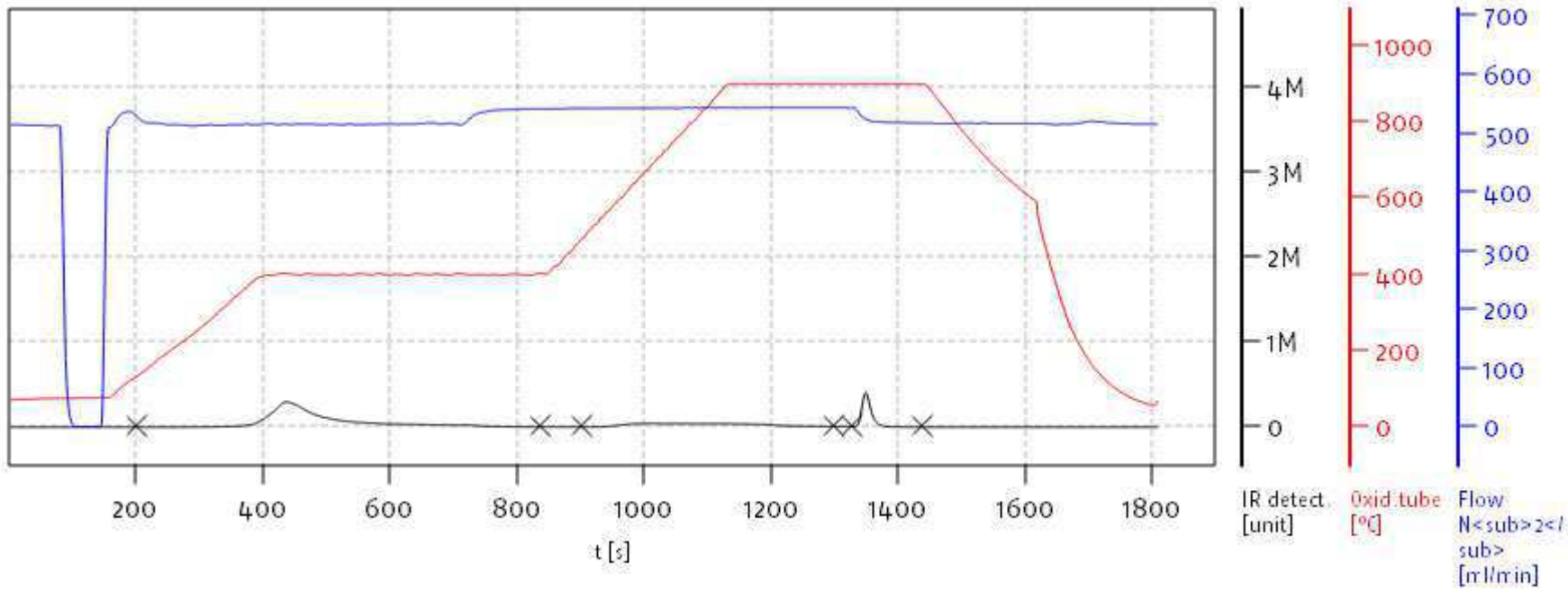
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
134	45	22L0155-45	518.50		CARBON	12/19/2022 7:22 AM	bl	0.398	1 202 780	0.510	0.070	261 965	399 327	0.328	0.111	0.9339	1.0000



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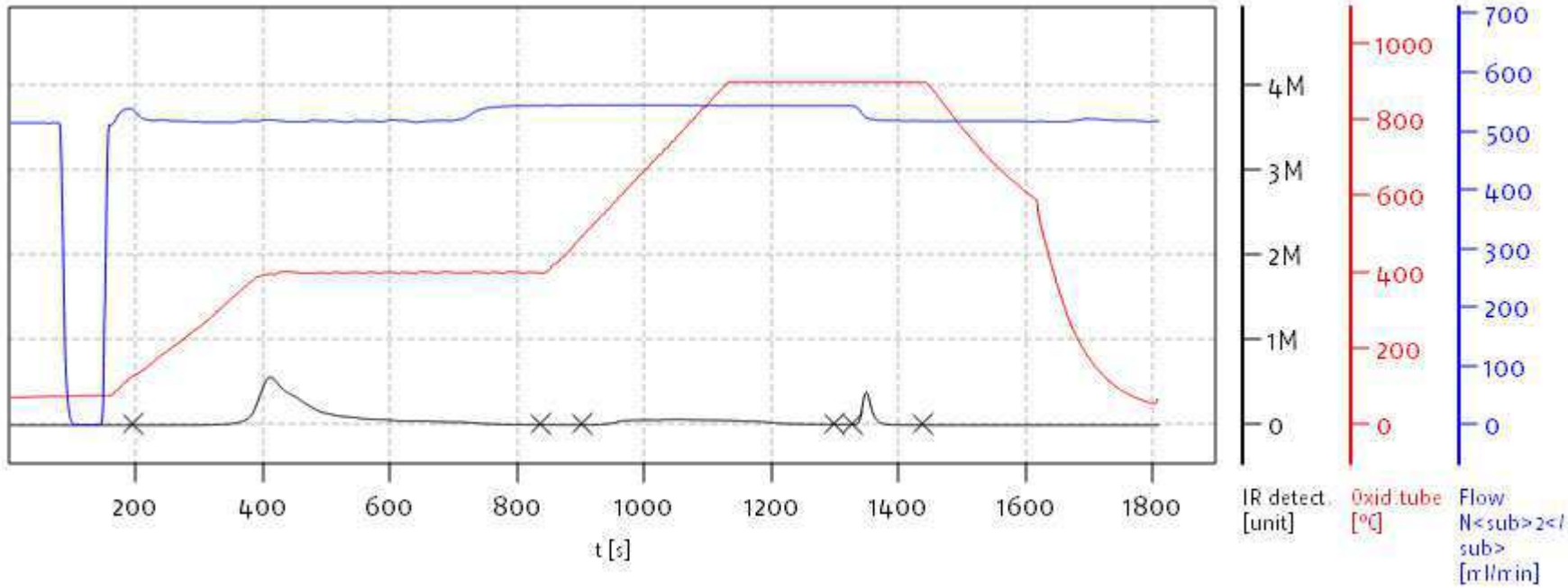
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
135	46	22L0155-46	528.90		CARBON	12/19/2022 7:53 AM	bl	0.640	2 122 680	0.802	0.067	255 287	580 235	0.573	0.162	0.9339	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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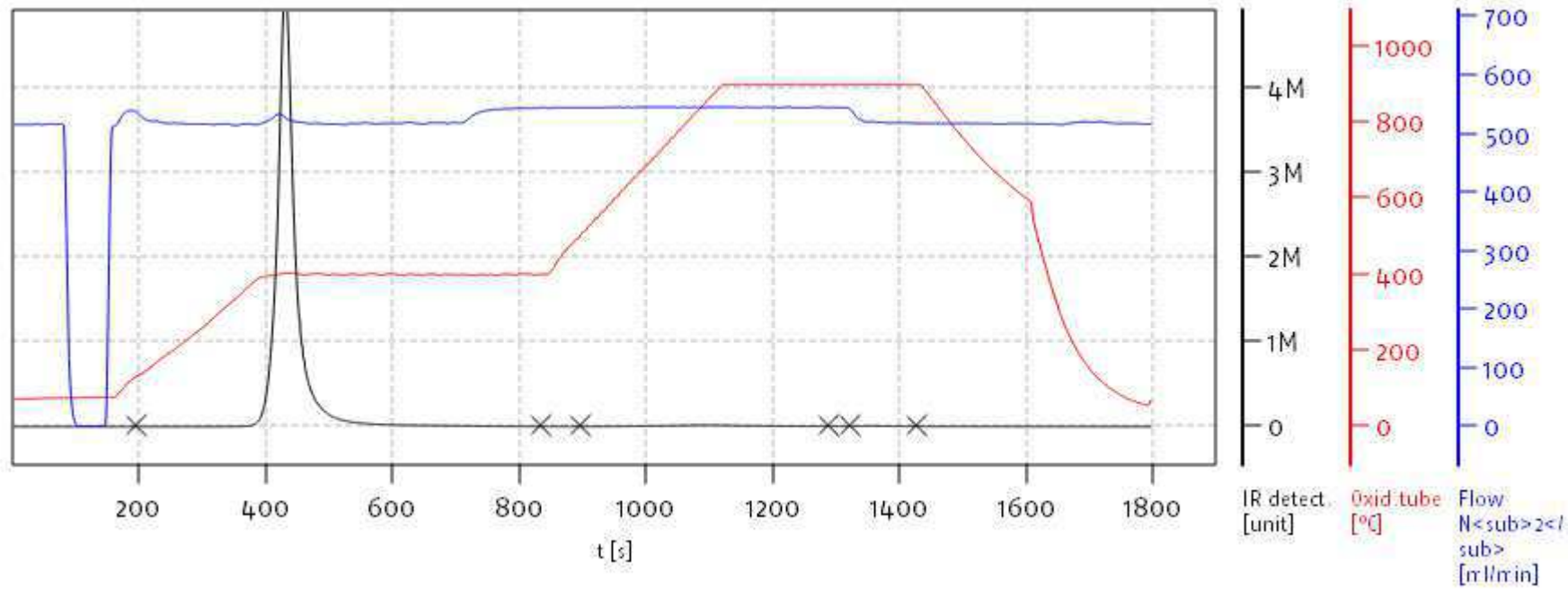
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
136	47	SKL0217-CCVB	21.00		CARBON	12/19/2022 8:23 AM	bl	44.192	6 445 800	44.861	0.000	22 634	117 274	44.192	0.669	0.9339	1.0000



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Access: soliTOC superuser

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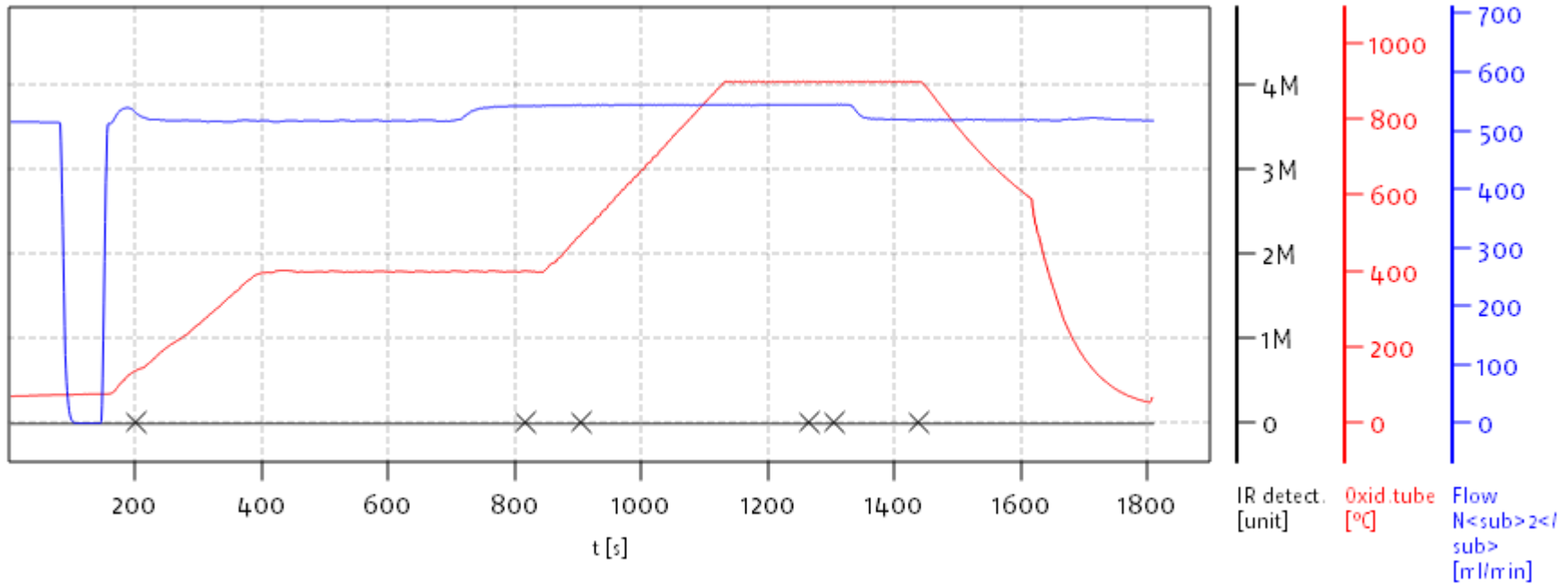
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
137	48	SKL0217-CCBB	517.70		CARBON	12/19/2022 8:54 AM	bl,C3u,C2u	0.000	4 648	0.000	0.000	426	1 879	0.000	0.000	0.9339	1.0000



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Date: Wed Dec 21 09:58:21 2022

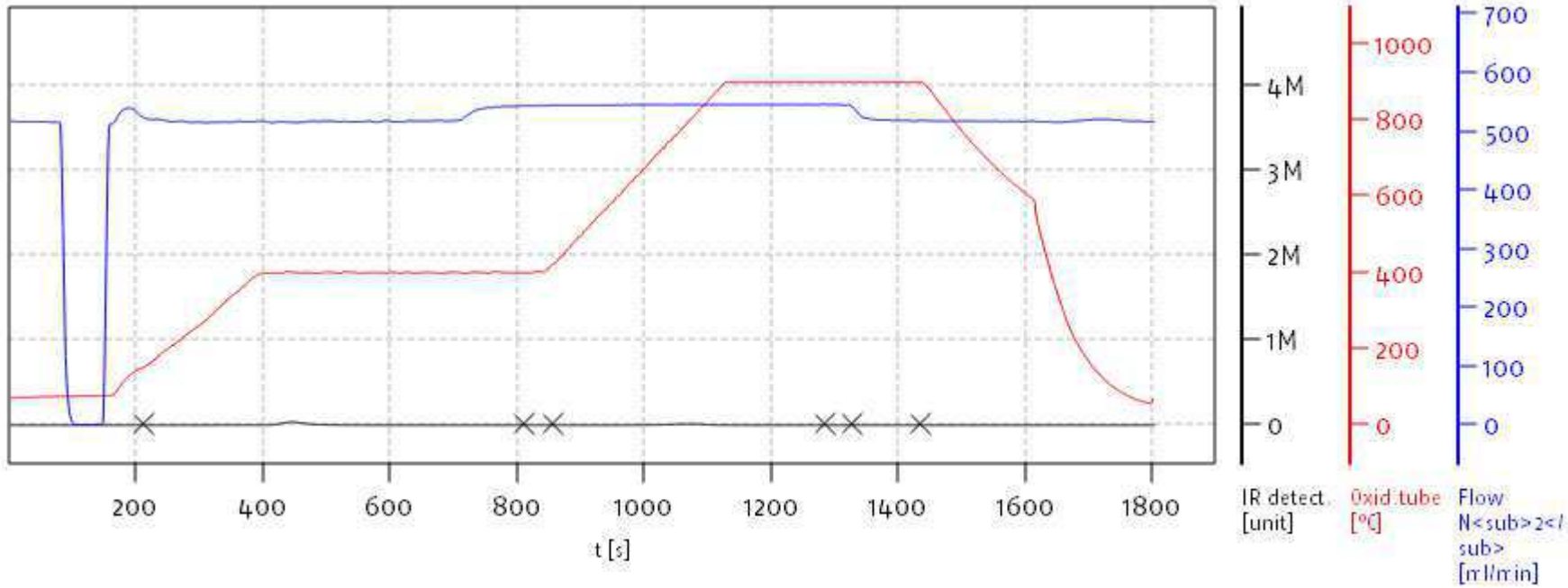
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
138	49	BKL0434-MRL1	526.80		CARBON	12/19/2022 9:24 AM	bl,C2u	0.012	71 306	0.015	0.000	656	37 327	0.012	0.003	0.9339	1.0000



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Access: soliTOC superuser

Date: Wed Dec 21 09:58:21 2022

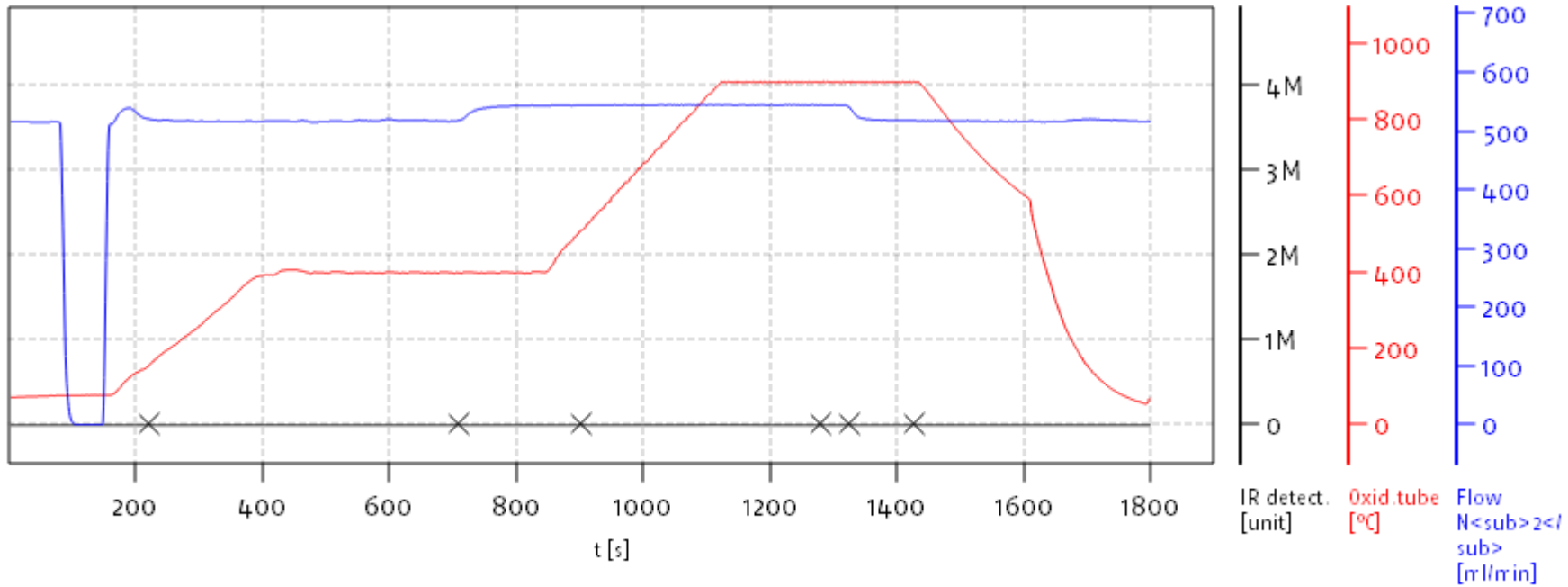
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
139	50	BKL0434-BLK1	518.90		CARBON	12/19/2022 9:54 AM	bl,C2u	0.000	5 286	0.000	0.000	403	8 688	0.000	0.000	0.9339	1.0000



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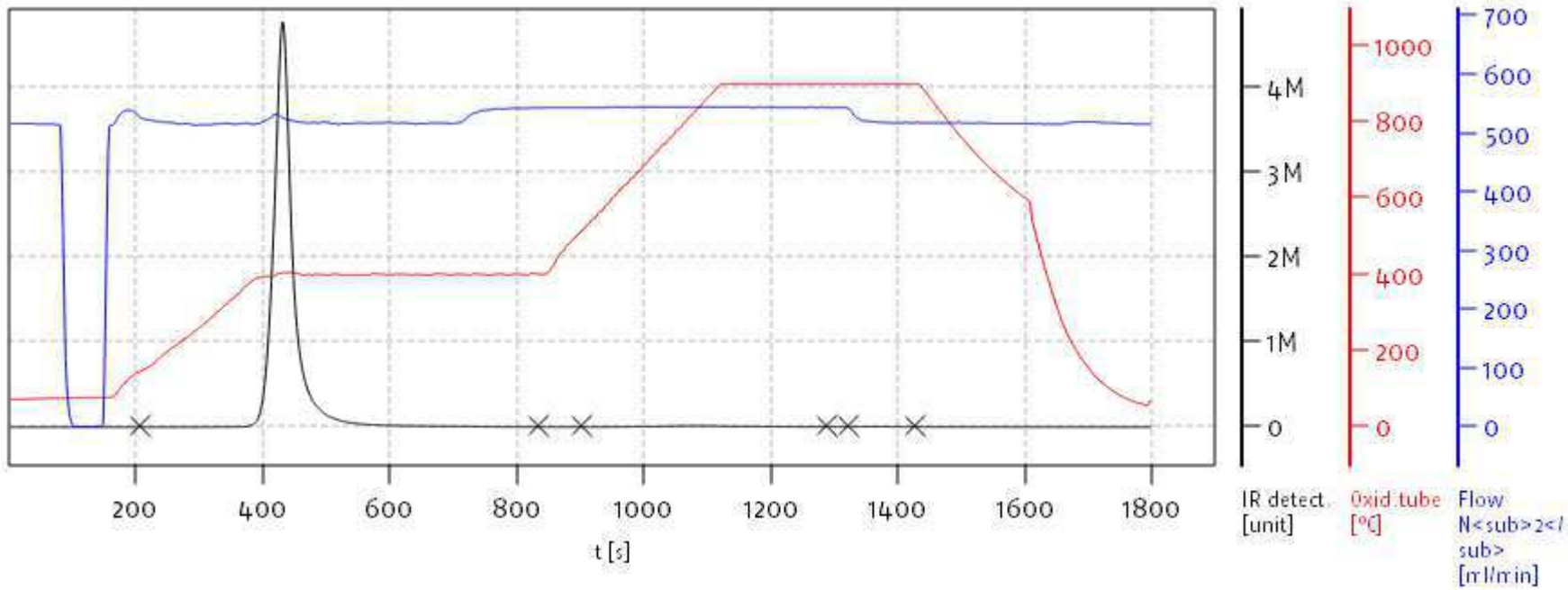
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
140	51	BKL0434-BS1	20.40		CARBON	12/19/2022 10:25 AM	bl	44.504	6 306 430	45.082	0.000	17 976	102 660	44.504	0.578	0.9339	1.0000



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Serial No: 0300.181017
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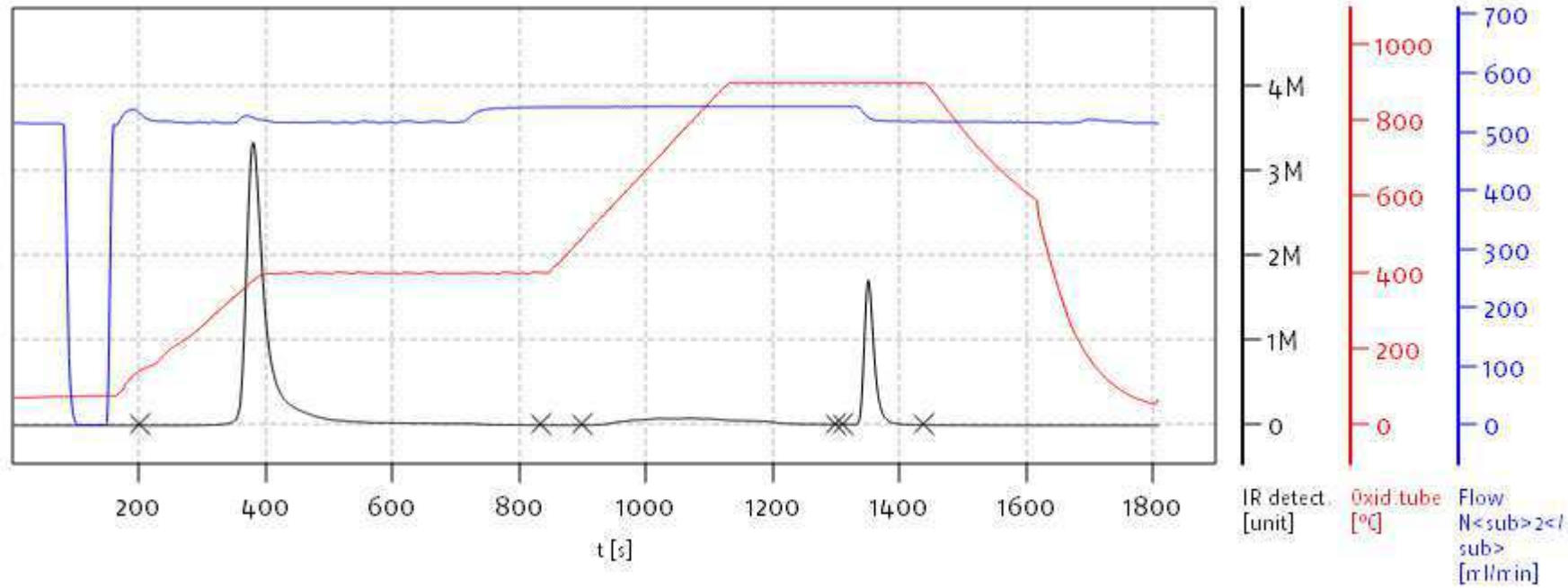
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
141	52	BKL0434-SRM1	286.60		CARBON	12/19/2022 10:55 AM	bl	2.991	4 695 020	3.357	0.636	1 203 870	704 619	2.355	0.366	0.9339	1.0000



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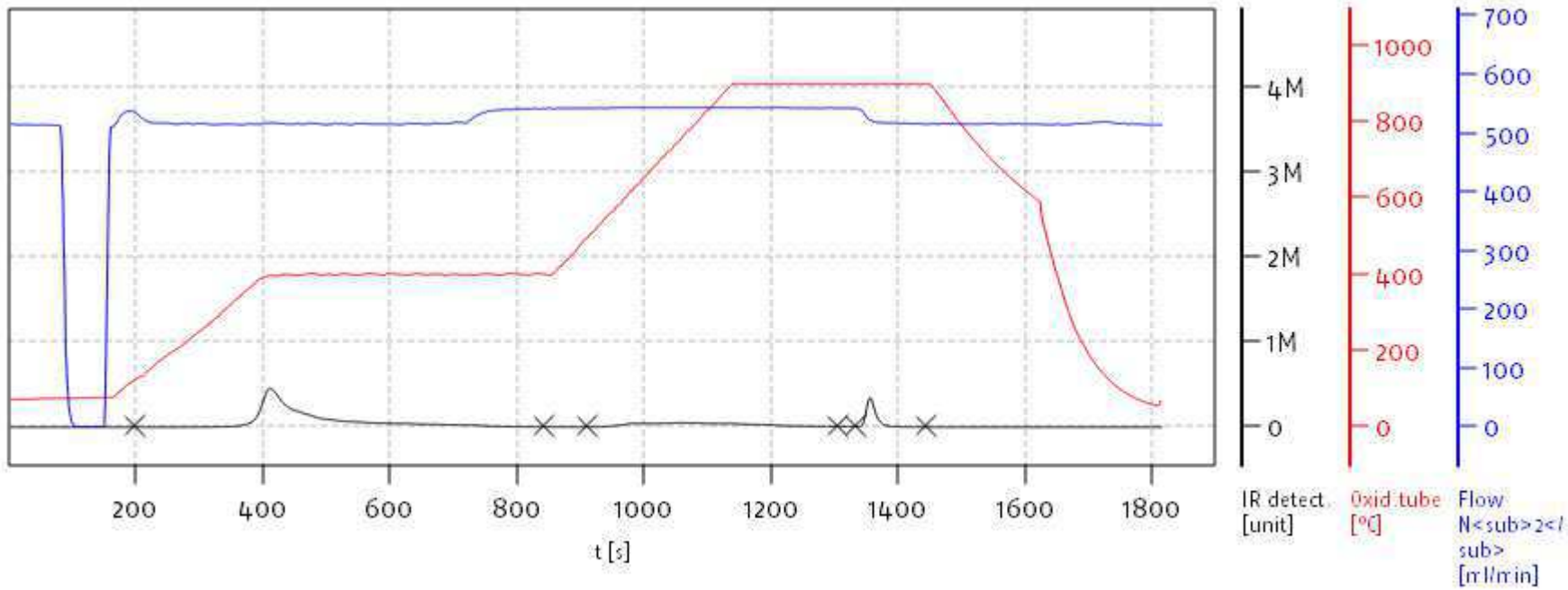
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
142	53	22L0155-47	300.70		CARBON	12/19/2022 11:26 AM	bl	0.786	1 444 340	0.991	0.105	229 800	424 210	0.682	0.205	0.9339	1.0000



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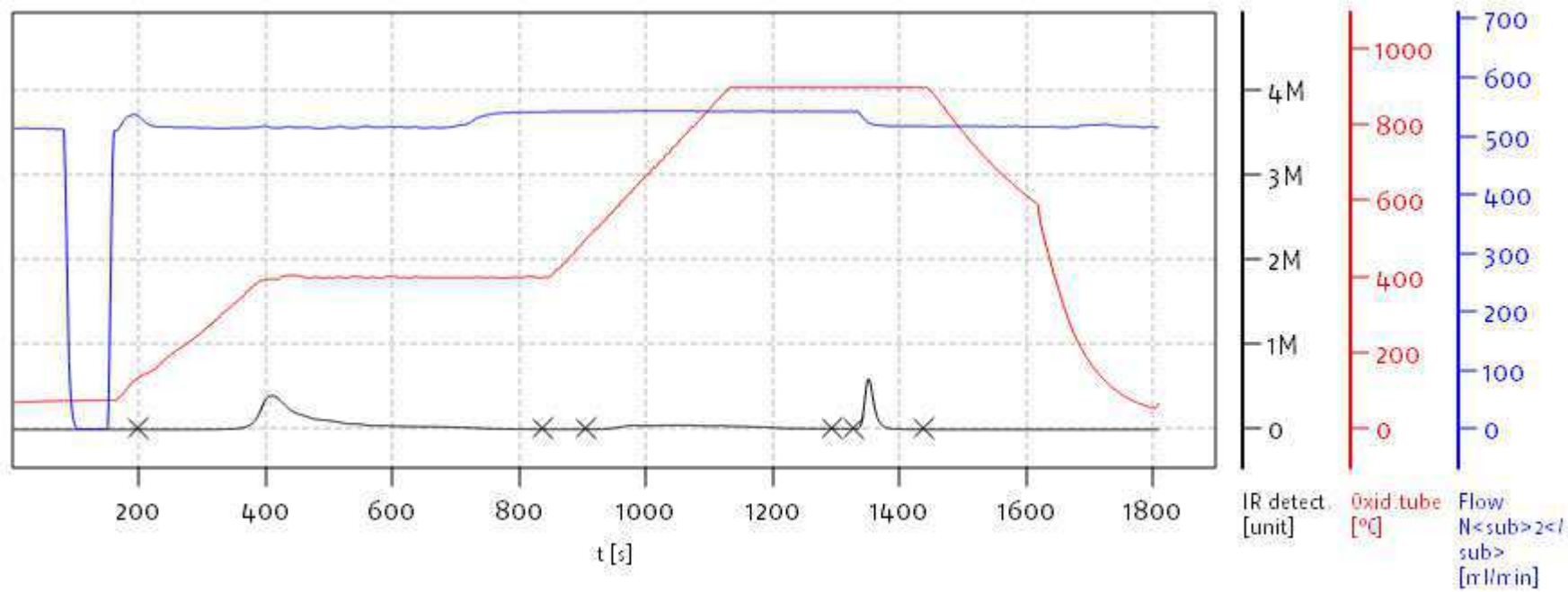
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
143	54	BKL0434-DUP1	297.50		CARBON	12/19/2022 11:57 AM	bl	0.890	1 458 470	1.104	0.194	399 377	438 580	0.696	0.214	0.9339	1.0000



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Serial No: 0300.181017
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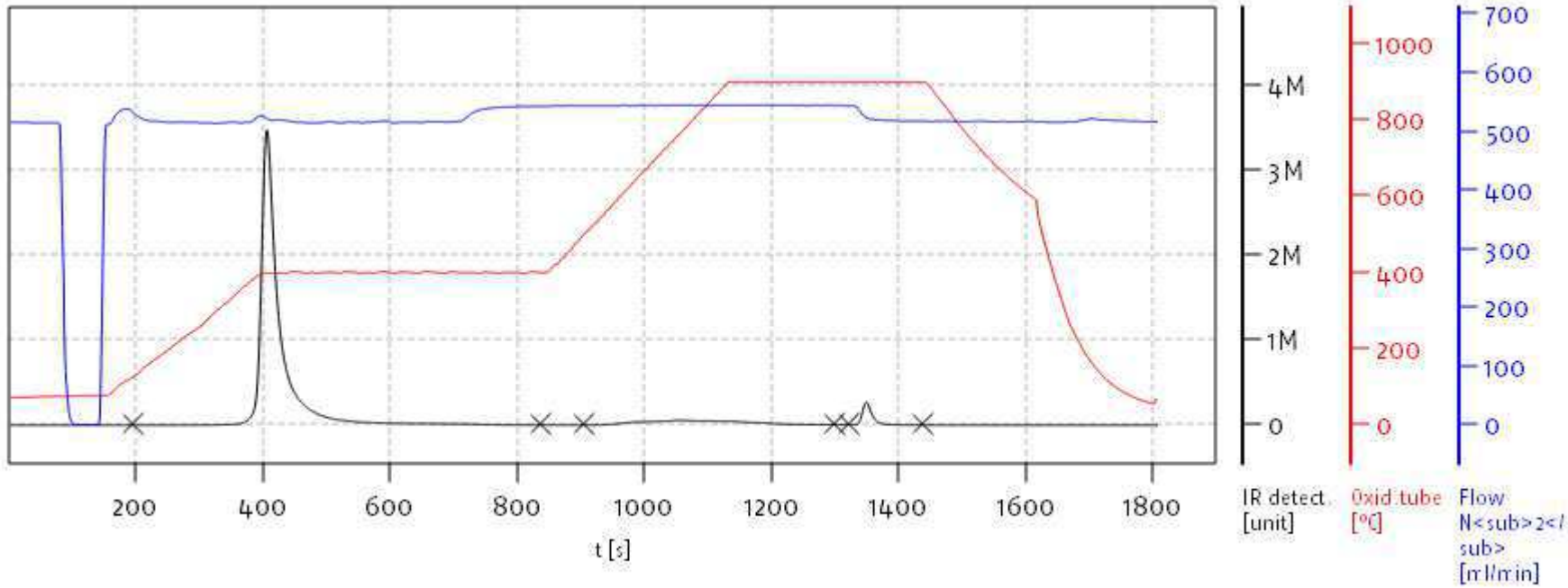
elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
144	55	BKL0434-MS1	316.70	0.0081	CARBON	12/19/2022 12:27 PM	bl	2.008	4 256 370	2.200	0.077	184 213	418 601	1.931	0.192	0.9339	1.0000



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Serial No: 0300.181017
Mode CCC

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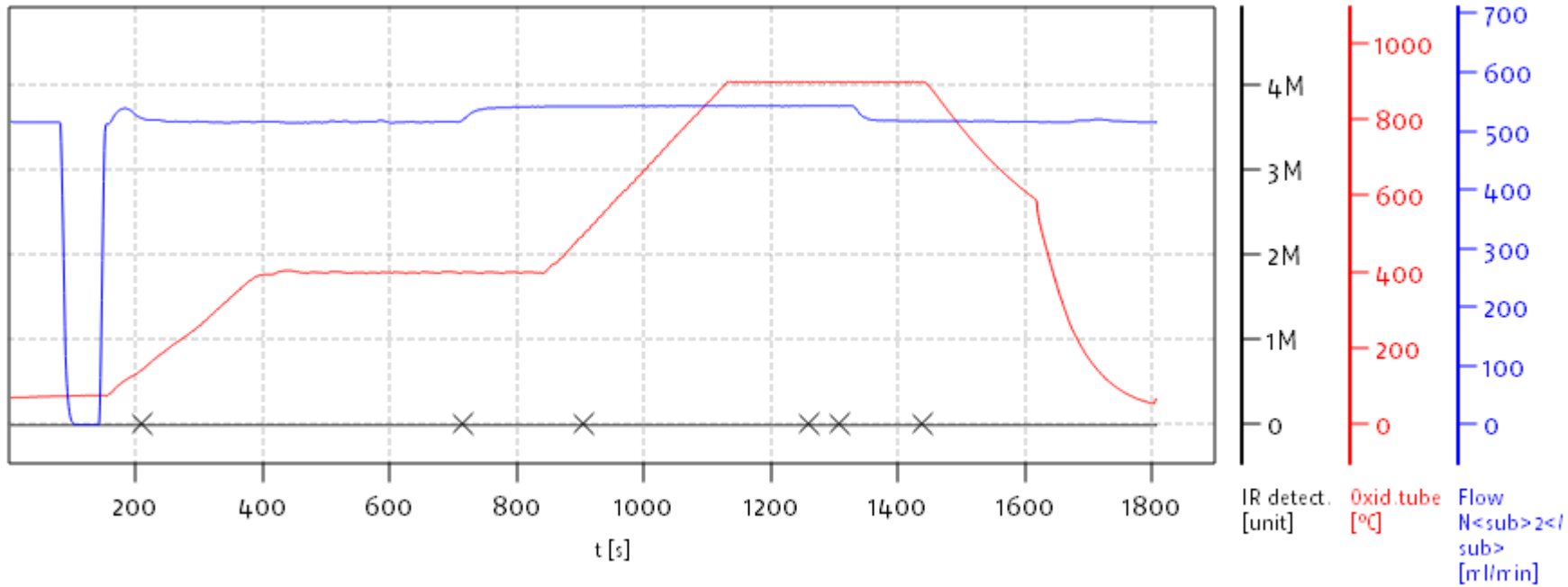
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
145	56	BLANK	1.00		CARBON	12/19/2022 12:58 PM	bl	0.000	2 843	0.000	0.000	311	466	0.000	0.000	0.9339	1.0000



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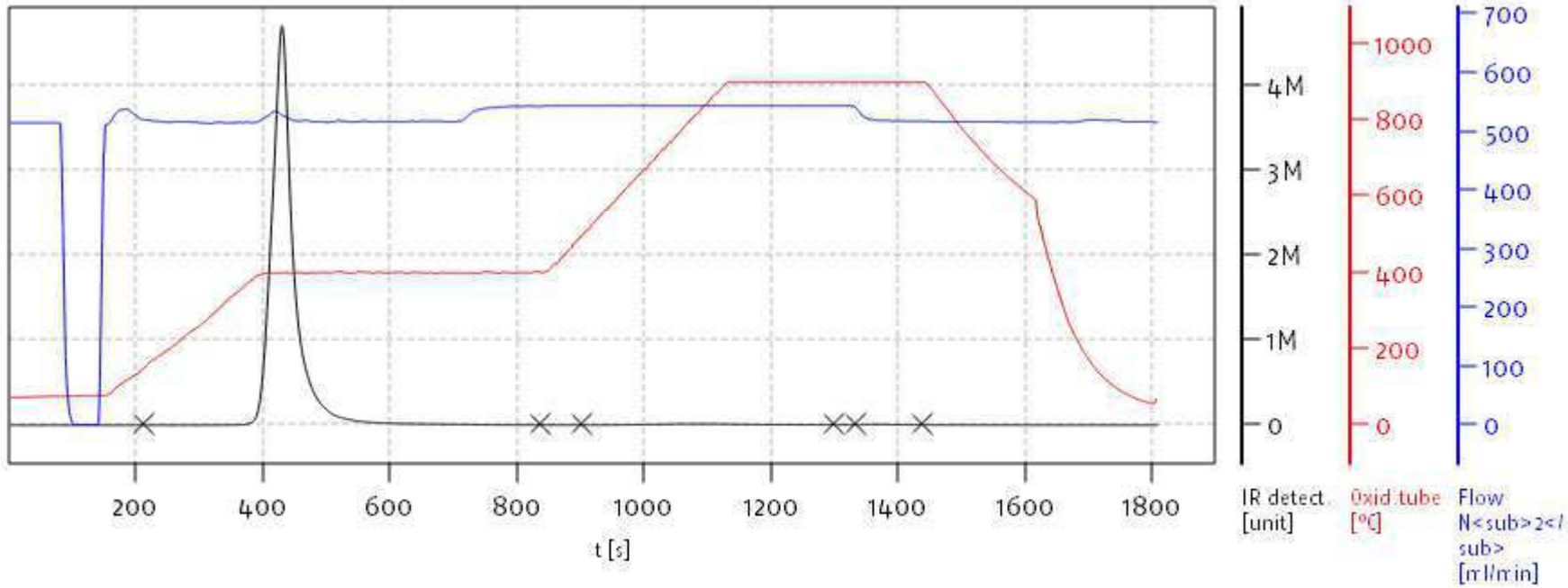
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
146	57	Dfactor	22.90		CARBON	12/19/2022 1:28 PM	bl	44.446	7 040 660	45.028	0.000	23 903	112 623	44.446	0.582	0.9374	1.0000



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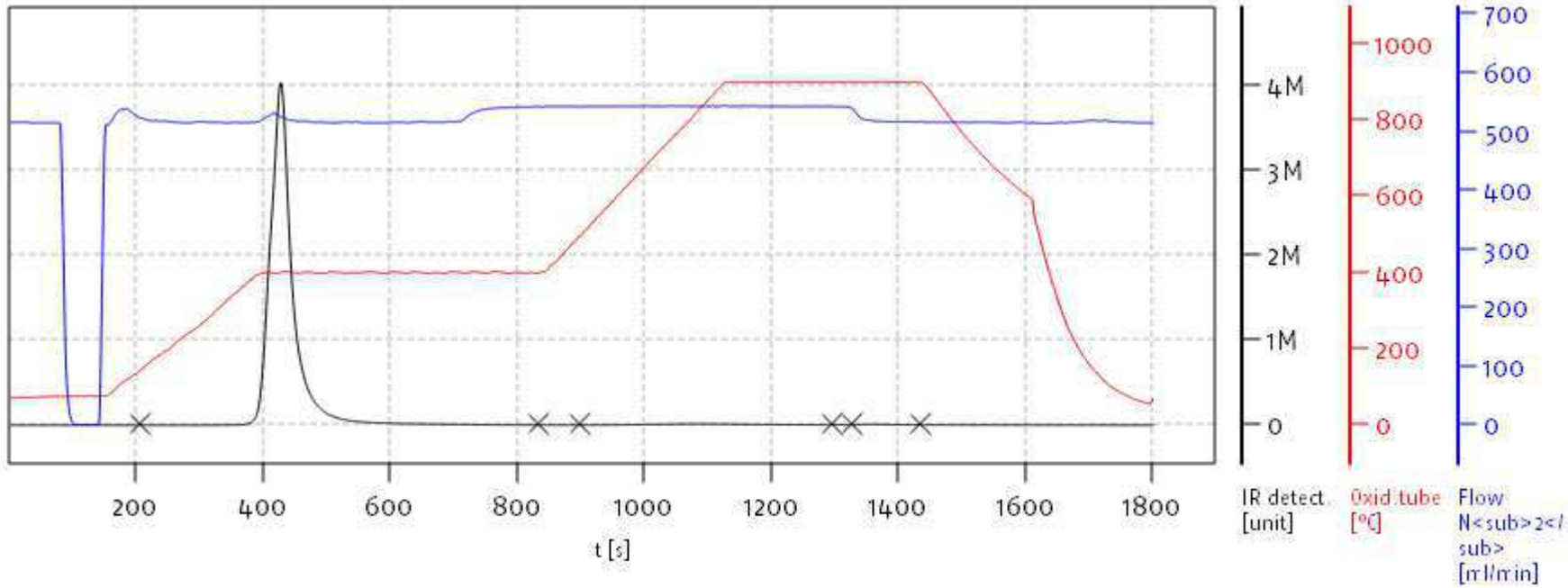
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
147	58	Dfactor	20.20		CARBON	12/19/2022 1:59 PM	bl	44.446	6 117 500	45.095	0.000	26 258	111 257	44.446	0.649	0.9522	1.0000



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Balance: BAL3
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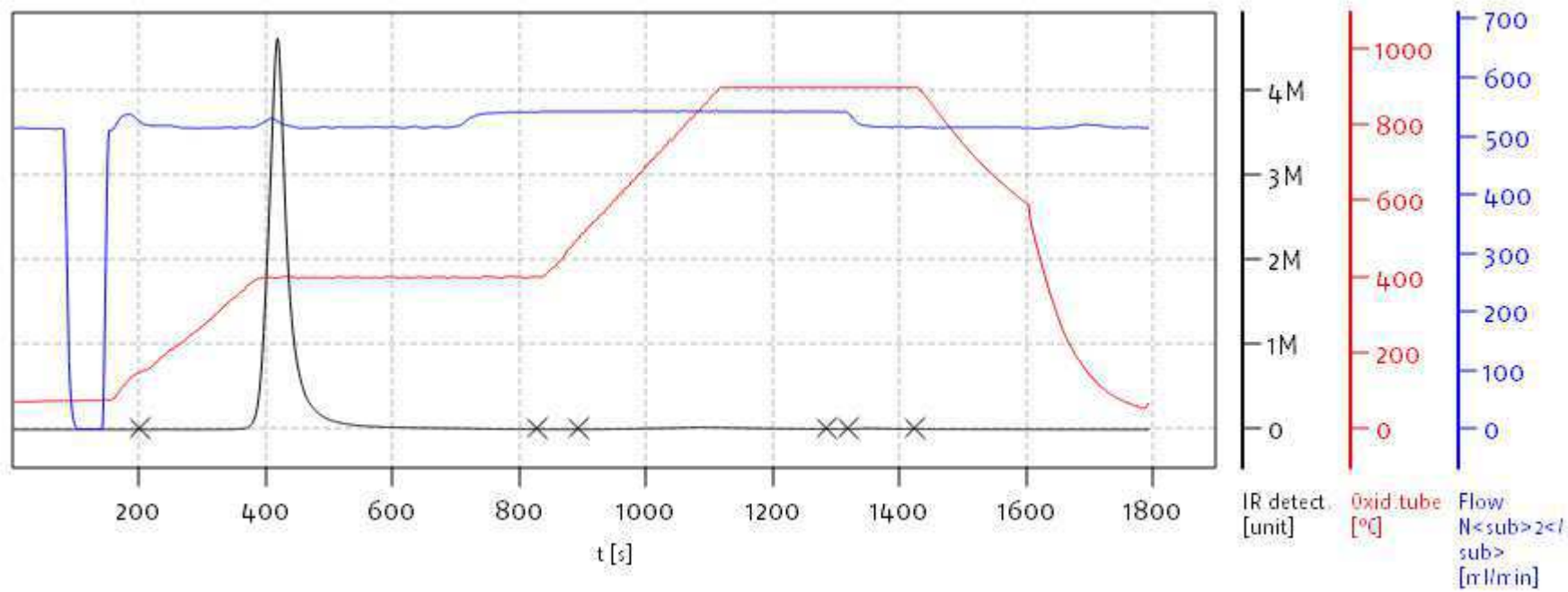
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
148	59	SKL0217-CCVC	21.40		CARBON	12/19/2022 2:29 PM	bl	43.970	6 451 750	45.117	0.059	34 630	185 118	43.912	1.147	0.9448	1.0000



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Soli TOC Cube, Carbon
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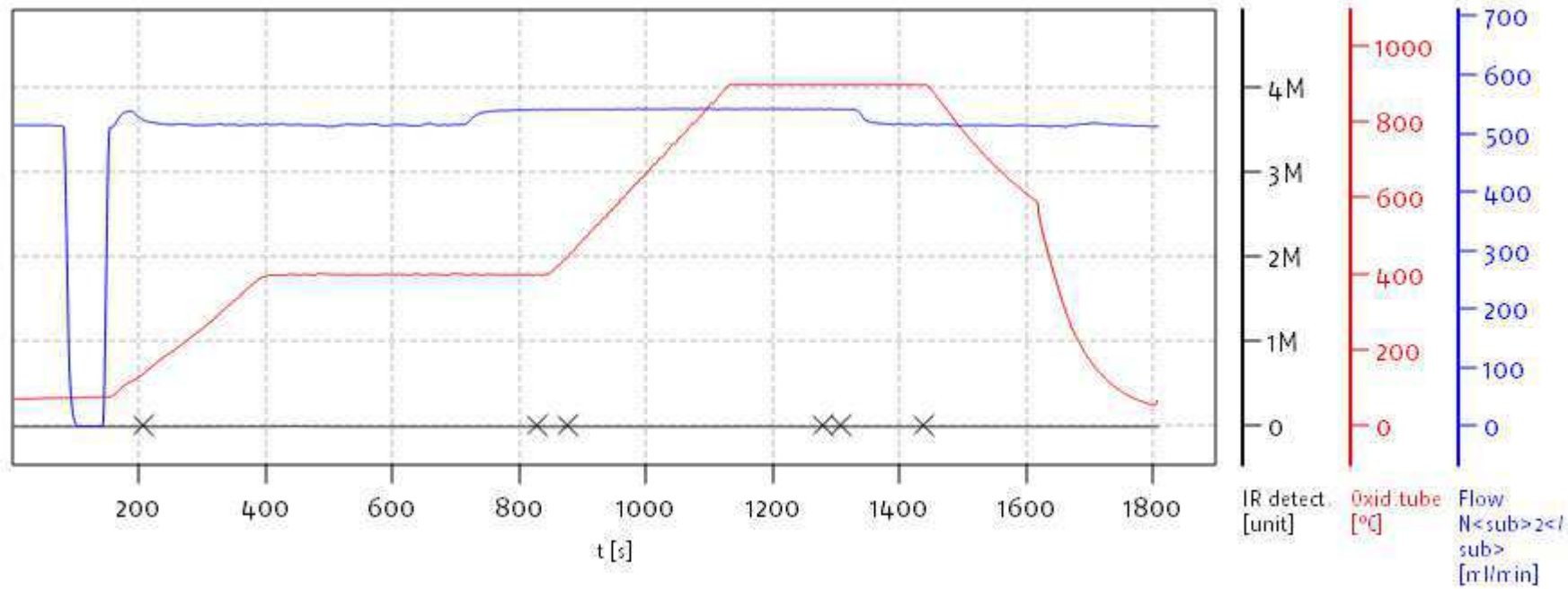
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
149	60	SKL0217-CCBC	518.80		CARBON	12/19/2022 3:00 PM	bl,C2u	0.000	13 041	0.000	0.000	900	3 302	0.000	0.000	0.9448	1.0000



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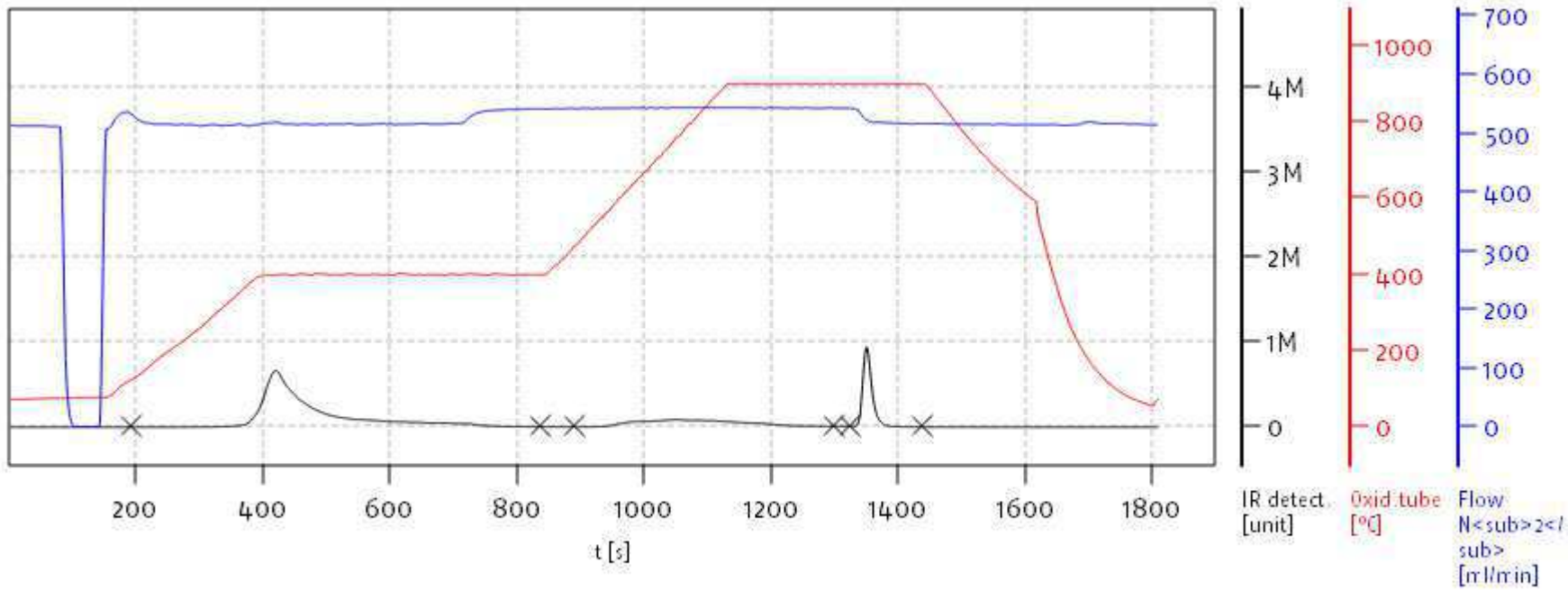
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
150	61	22L0155-48	501.40		CARBON	12/19/2022 3:30 PM	bl	0.831	2 262 460	1.032	0.179	606 182	678 322	0.652	0.201	0.9448	1.0000



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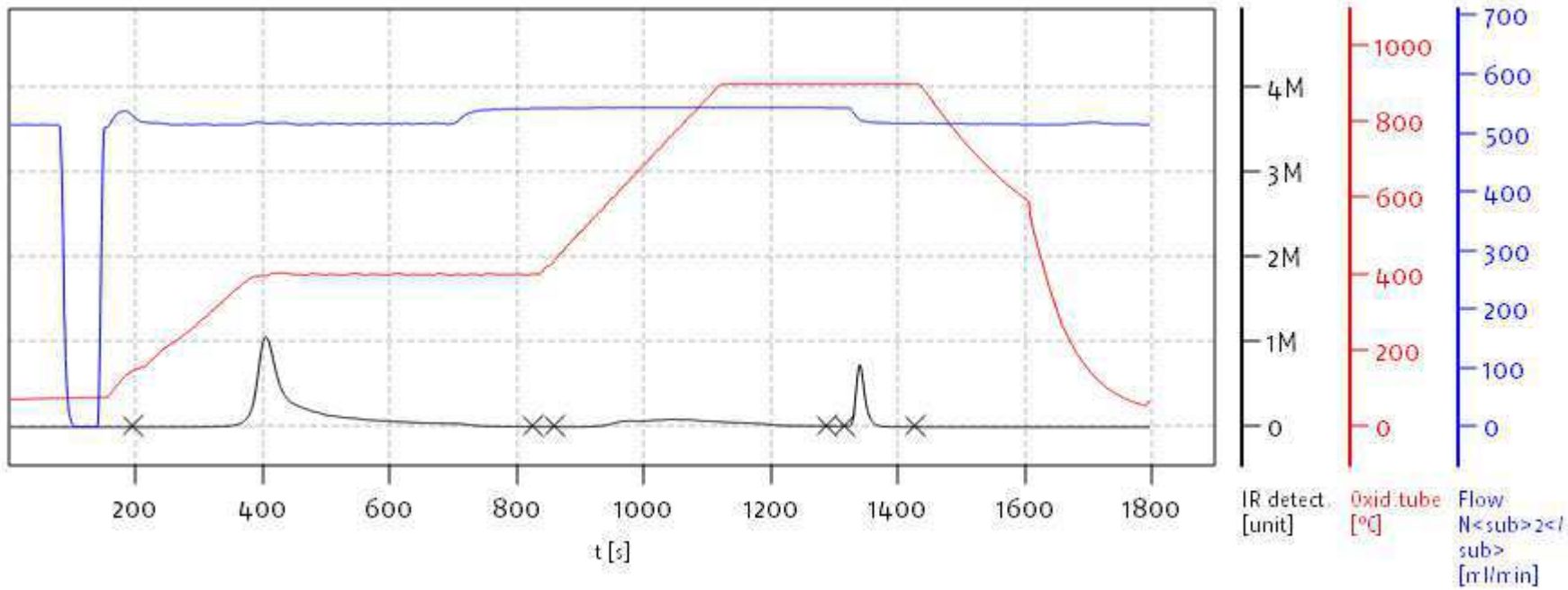
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
151	62	22L0155-49	503.70		CARBON	12/19/2022 4:00 PM	bl	0.894	2 643 310	1.103	0.134	463 351	705 750	0.760	0.209	0.9448	1.0000



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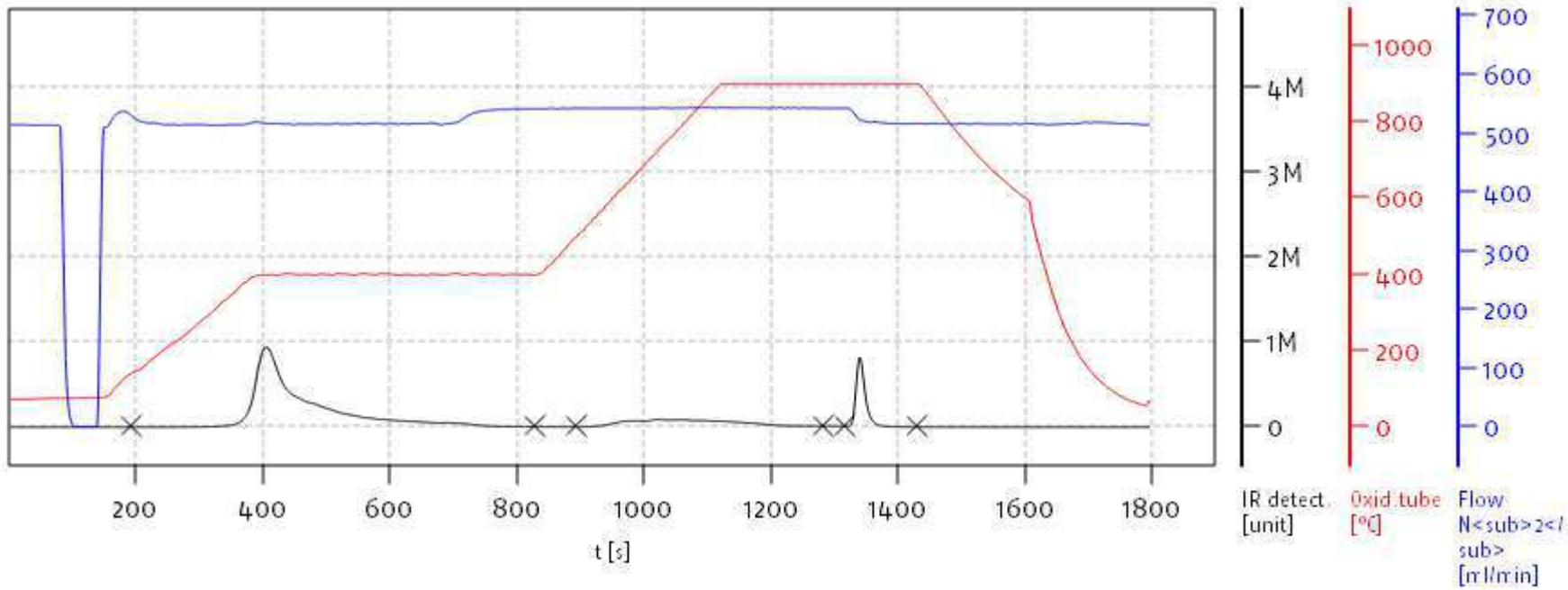
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
152	63	22L0155-50	510.00		CARBON	12/19/2022 4:31 PM	bl	1.041	3 127 170	1.248	0.152	528 022	708 468	0.889	0.207	0.9448	1.0000



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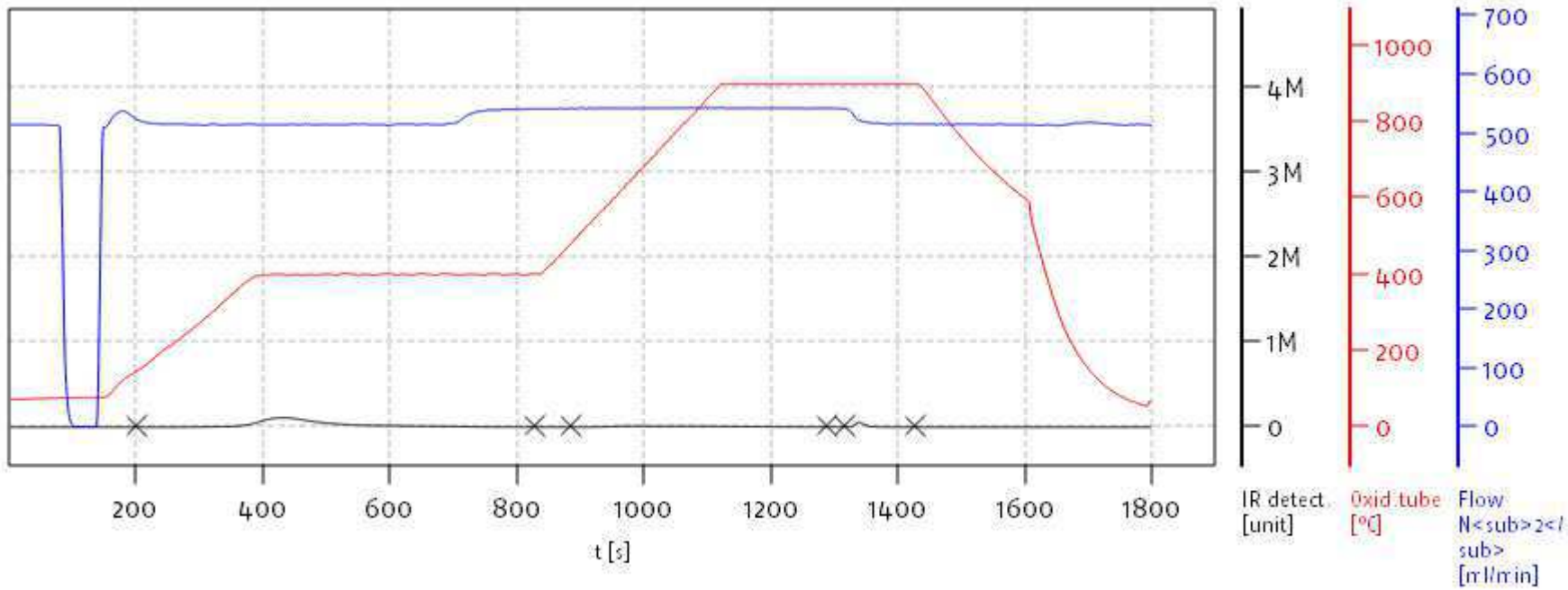
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
153	64	22L0155-51	525.80		CARBON	12/19/2022 5:01 PM	bl	0.149	551 811	0.170	0.003	36 837	97 854	0.146	0.021	0.9448	1.0000



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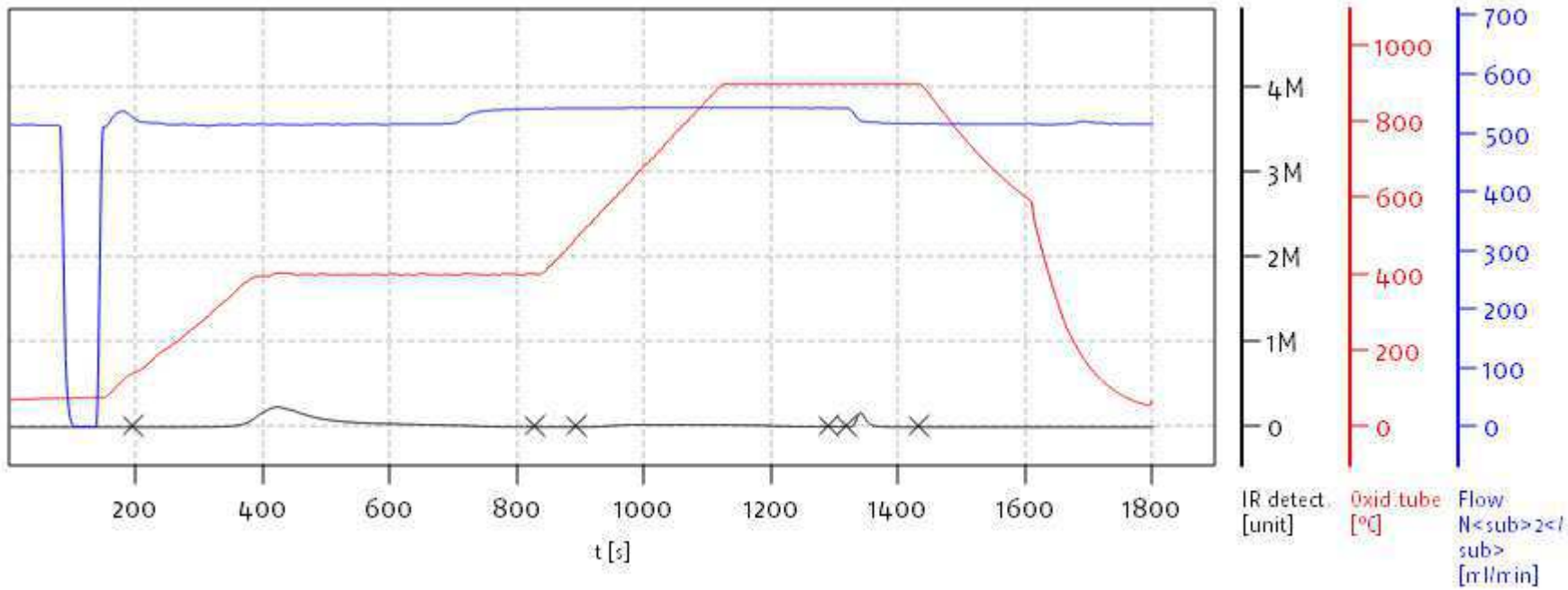
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
154	65	22L0155-52	509.70		CARBON	12/19/2022 5:32 PM	bl	0.345	1 138 450	0.417	0.026	112 697	261 264	0.319	0.071	0.9448	1.0000



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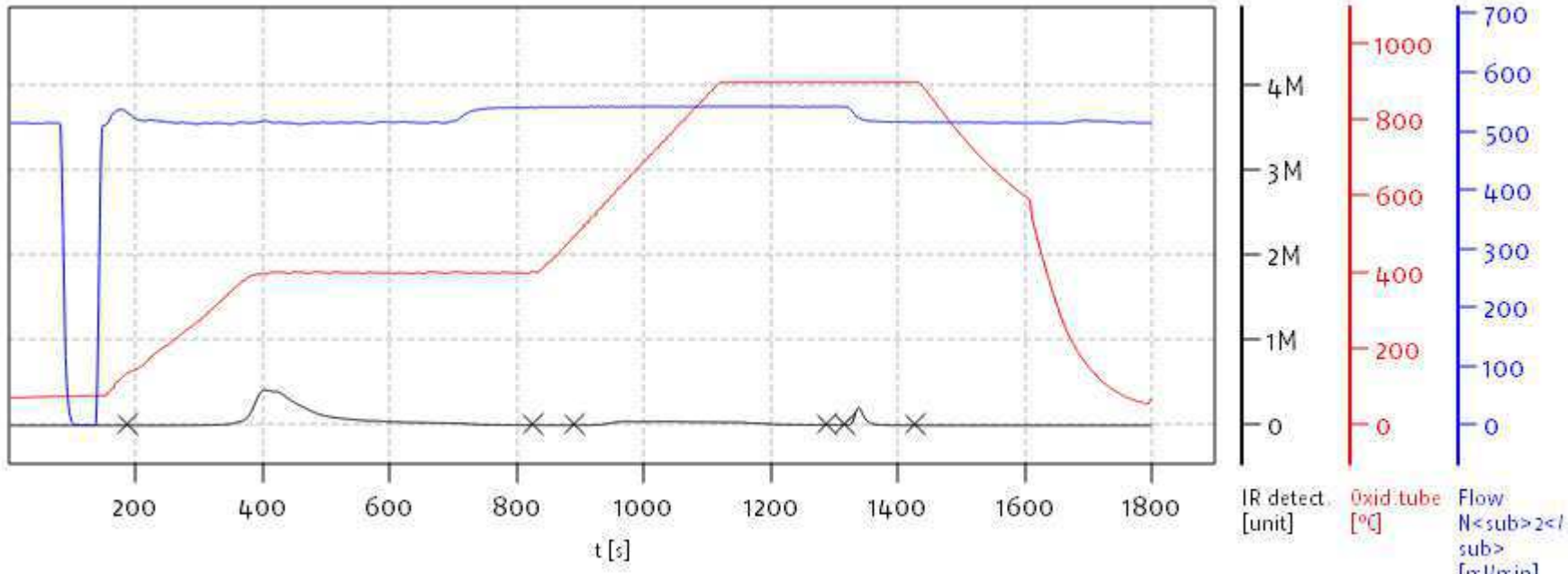
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
155	66	22L0155-53	512.00		CARBON	12/19/2022 6:02 PM	bl	0.529	1 755 950	0.645	0.035	142 432	408 766	0.494	0.116	0.9448	1.0000



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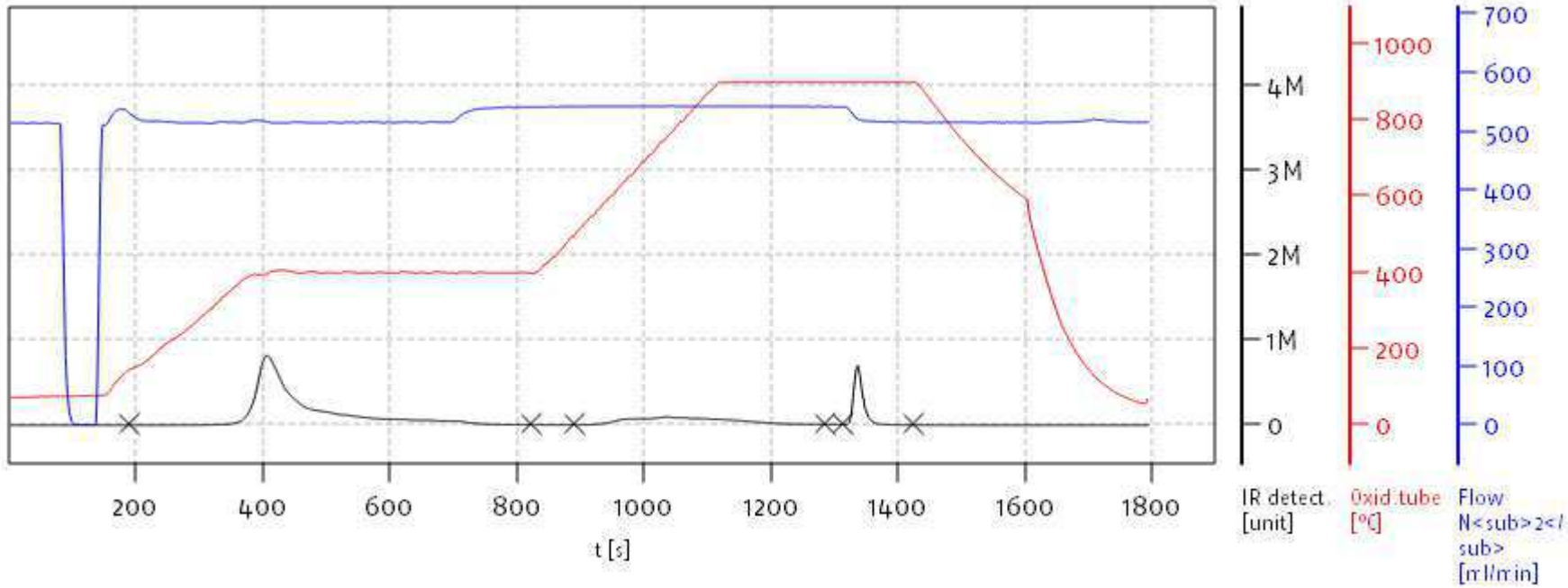
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
156	67	22L0155-54	514.80		CARBON	12/19/2022 6:32 PM	bl	0.851	2 566 930	1.054	0.129	455 693	703 634	0.722	0.204	0.9448	1.0000



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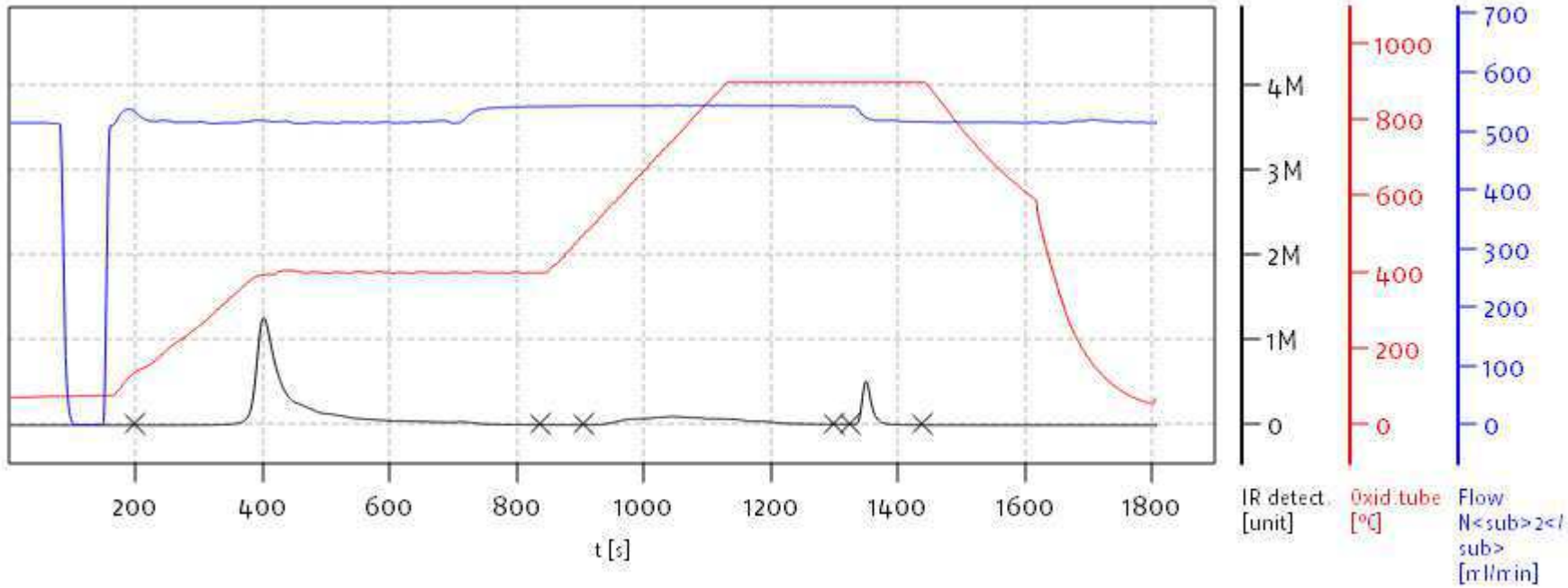
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
157	68	22L0155-55	502.40		CARBON	12/19/2022 7:03 PM	bl	0.895	2 759 840	1.119	0.099	348 228	754 944	0.796	0.224	0.9448	1.0000



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Access: soliTOC superuser

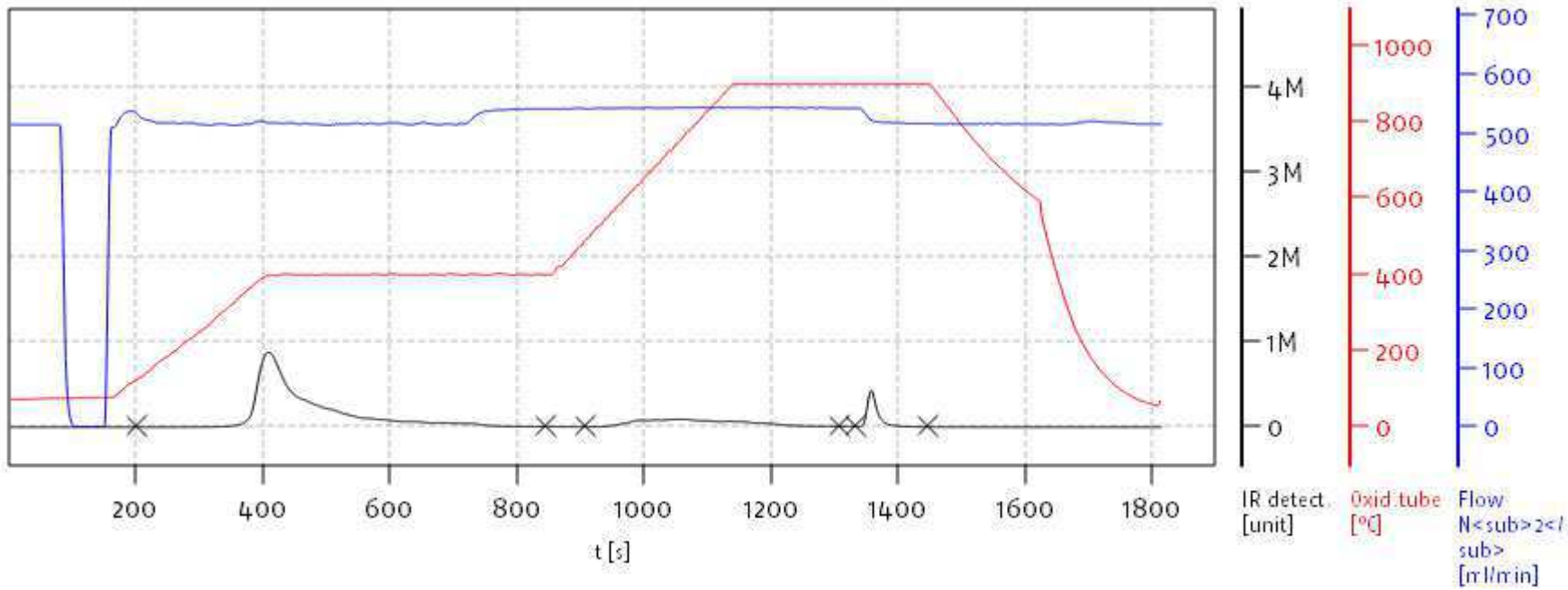
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
158	69	22L0155-56	567.80		CARBON	12/19/2022 7:34 PM	bl	0.842	2 998 180	1.030	0.077	308 923	713 266	0.765	0.187	0.9448	1.0000



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Access: soliTOC superuser

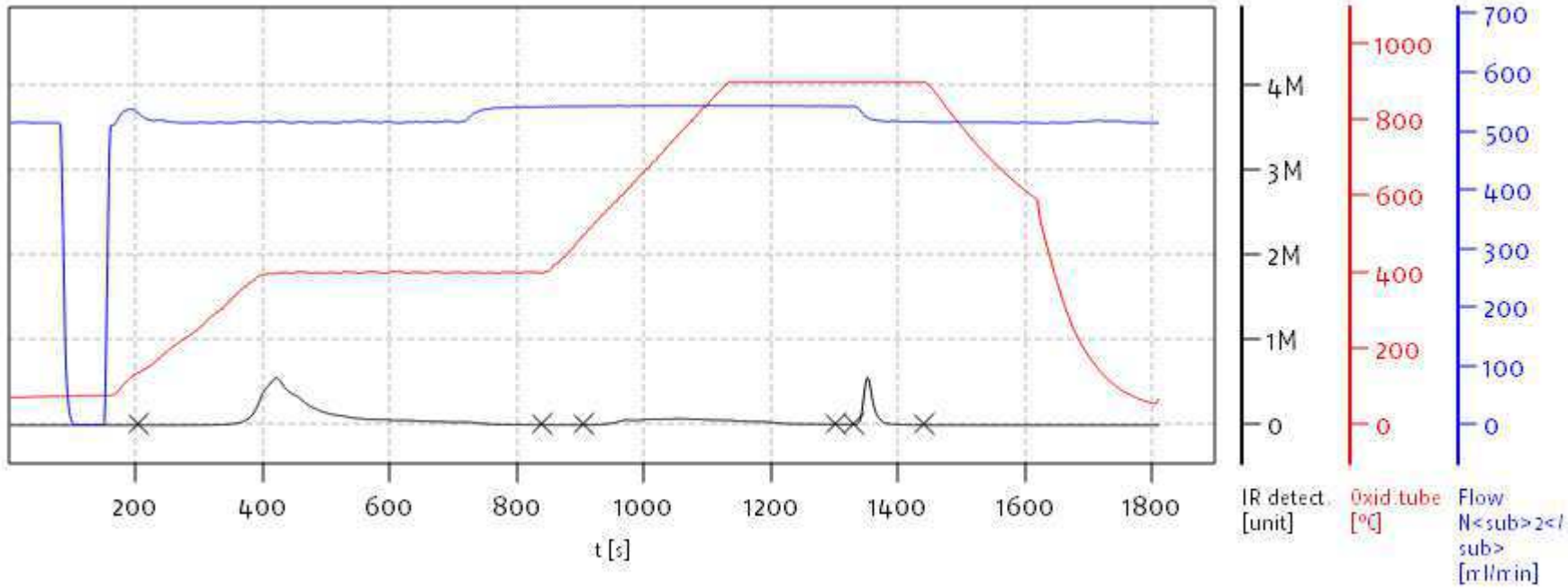
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
159	70	22L0155-57	562.70		CARBON	12/19/2022 8:04 PM	bl	0.641	2 118 640	0.805	0.098	380 998	621 204	0.544	0.164	0.9448	1.0000



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Serial No: 0300.181017
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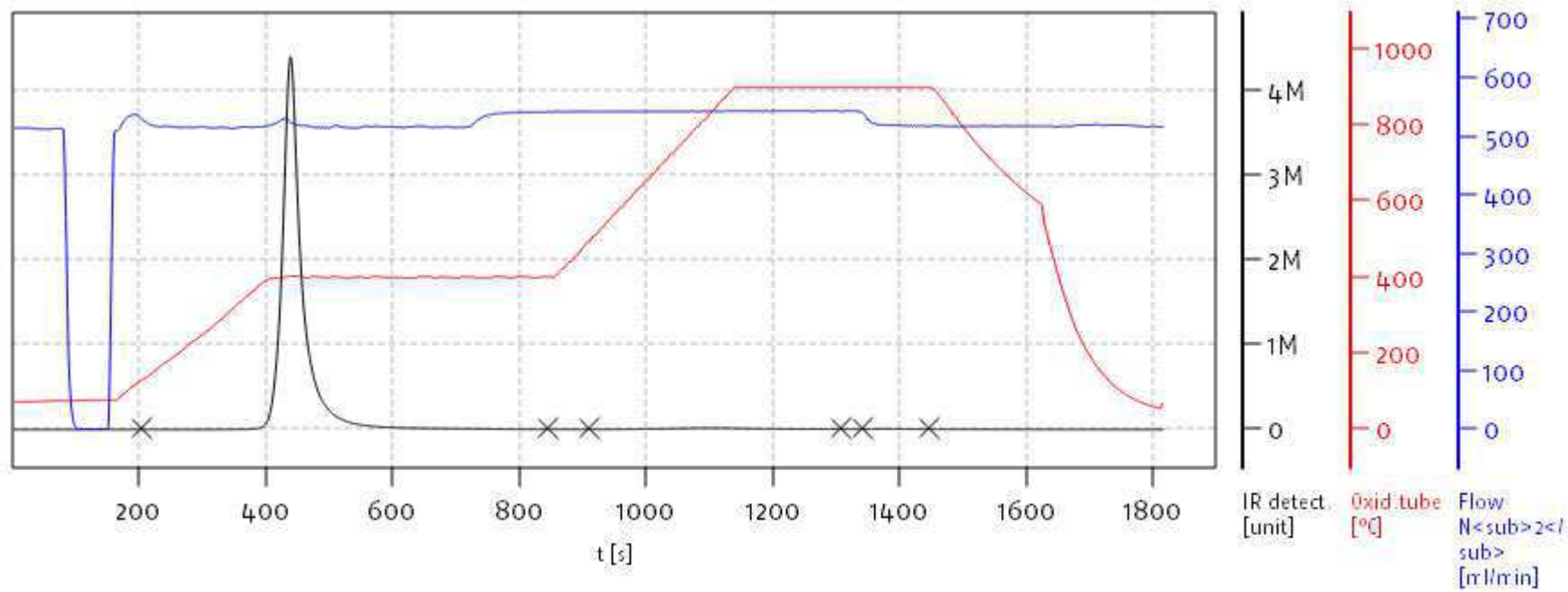
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
160	71	SKL0217-CCVD	19.70		CARBON	12/19/2022 8:35 PM	bl	44.055	5 960 590	44.844	0.000	22 603	127 020	44.055	0.790	0.9448	1.0000



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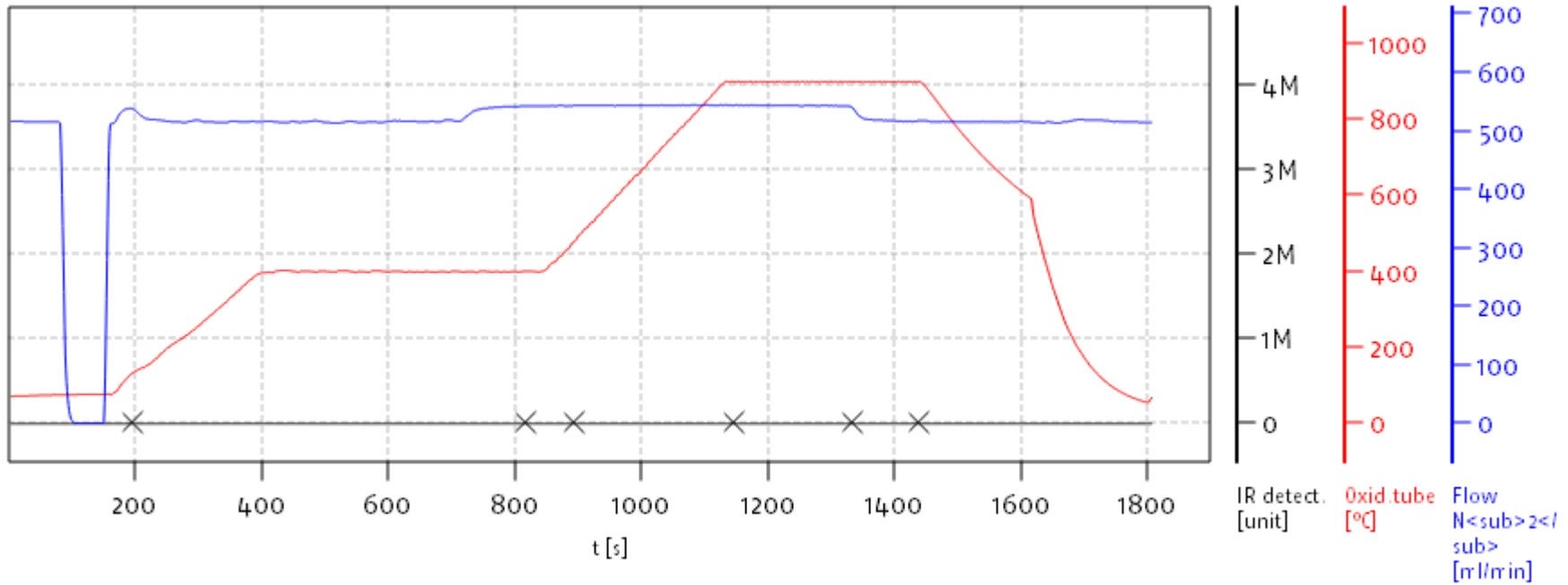
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
161	72	SKL0217-CCBD	561.60		CARBON	12/19/2022 9:05 PM	bl,C3u,C2u	0.000	3 930	0.000	0.000	497	950	0.000	0.000	0.9448	1.0000



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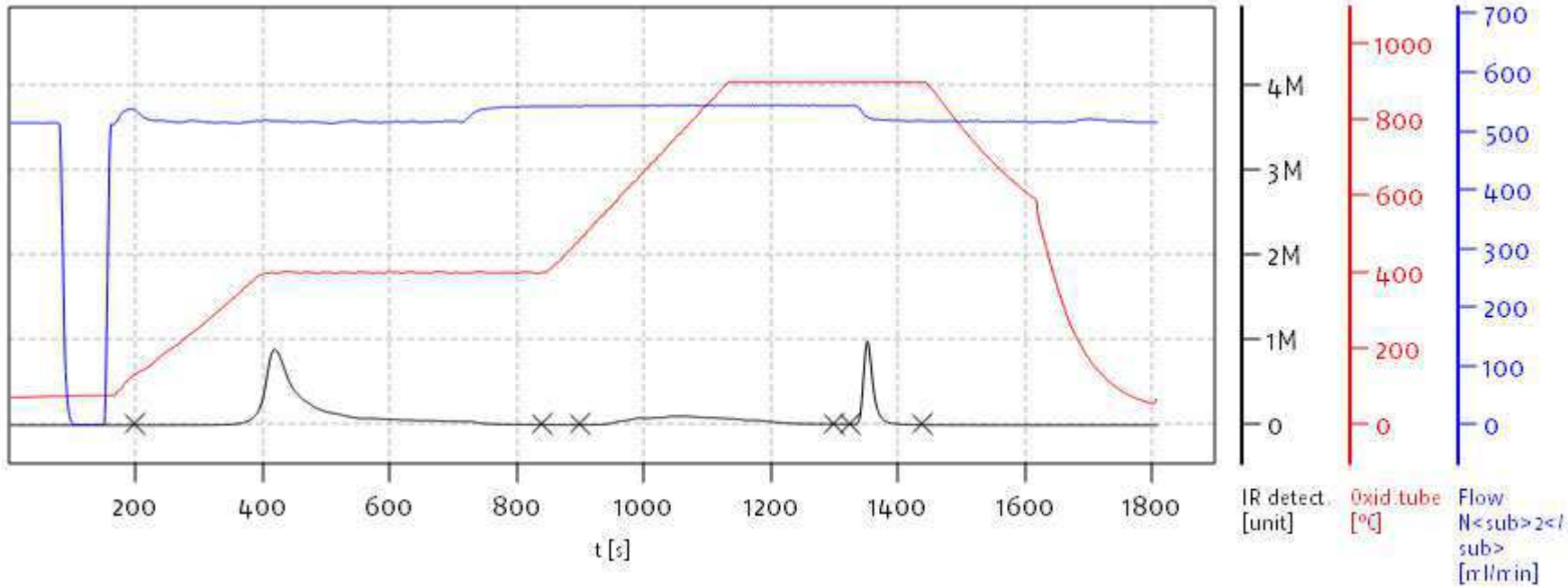
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
162	73	22L0155-58	517.10		CARBON	12/19/2022 9:36 PM	bl	0.903	2 532 670	1.138	0.194	674 833	813 027	0.709	0.235	0.9448	1.0000



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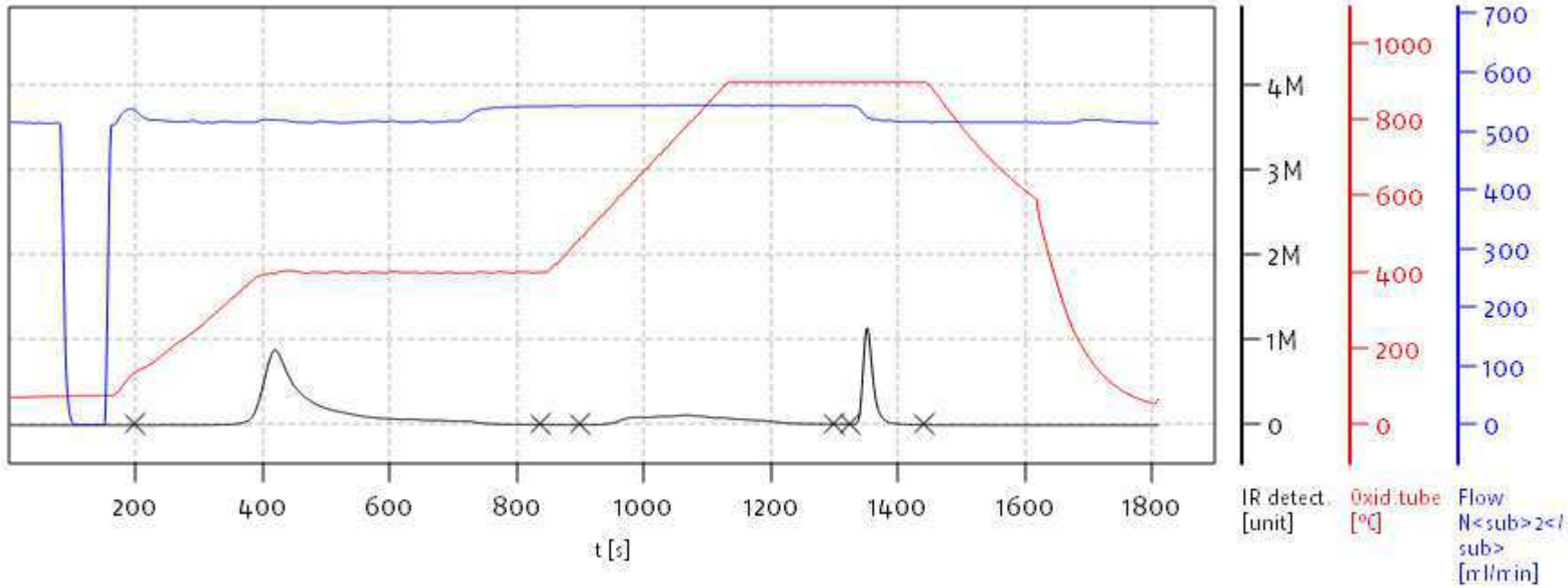
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
163	74	22L0155-59	582.80		CARBON	12/19/2022 10:06 PM	bl	0.917	2 856 050	1.146	0.207	805 275	889 946	0.710	0.229	0.9448	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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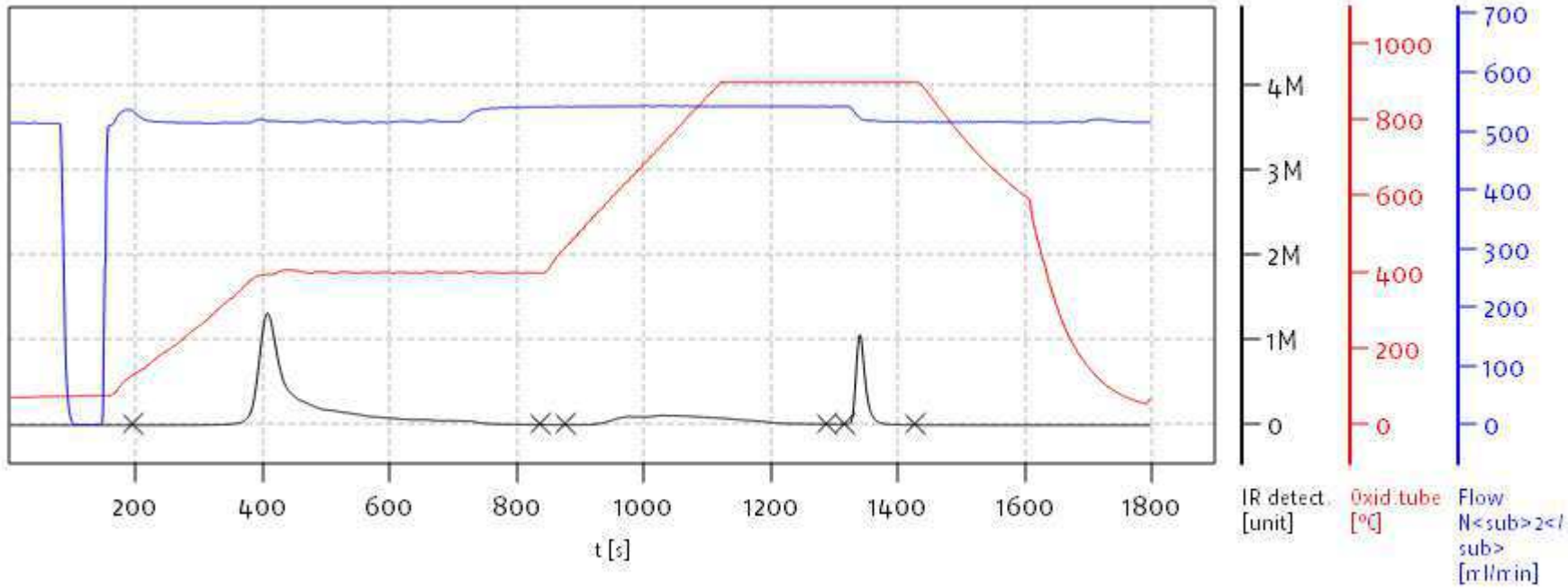
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
164	75	22L0155-60	516.40		CARBON	12/19/2022 10:37 PM	bl	1.113	3 243 110	1.376	0.202	701 927	902 483	0.911	0.263	0.9448	1.0000



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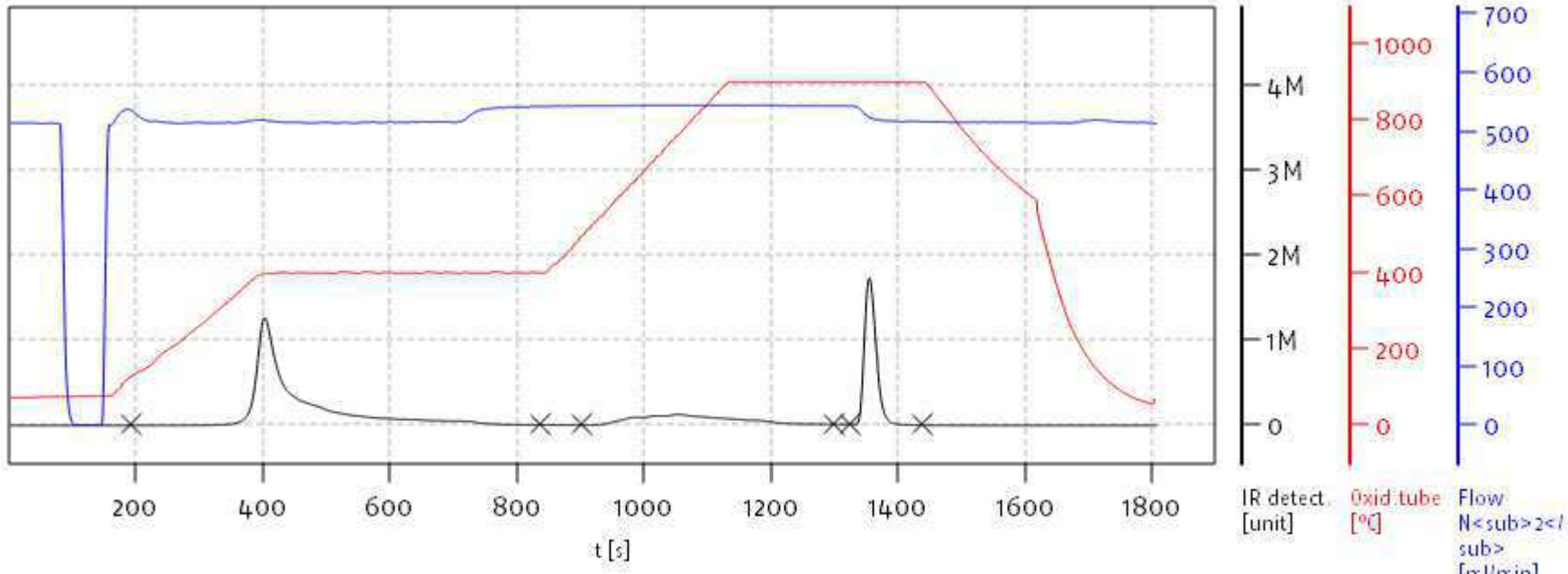
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
165	76	22L0155-61	545.90		CARBON	12/19/2022 11:07 PM	bl	1.240	3 187 960	1.496	0.393	1 412 460	930 433	0.847	0.256	0.9448	1.0000



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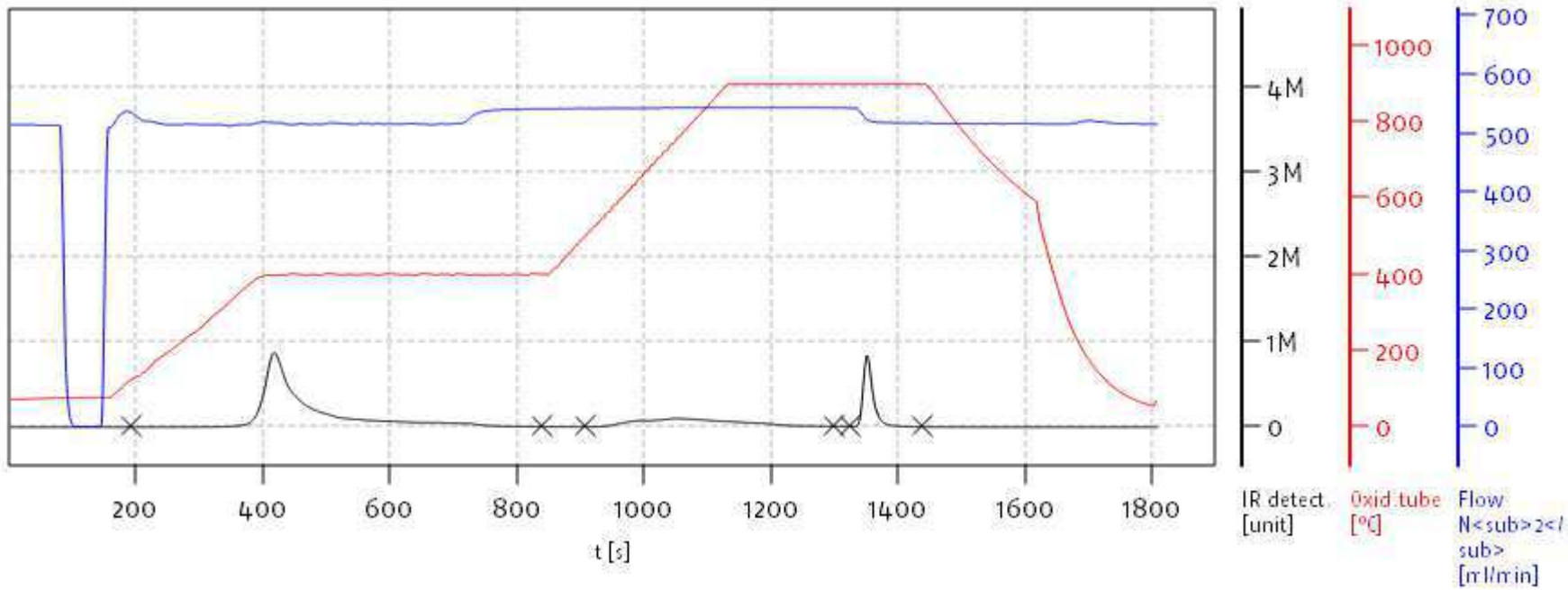
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
166	77	22L0155-62	503.60		CARBON	12/19/2022 11:38 PM	bl	0.873	2 448 400	1.090	0.170	579 959	732 274	0.703	0.217	0.9448	1.0000



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Mode CCC

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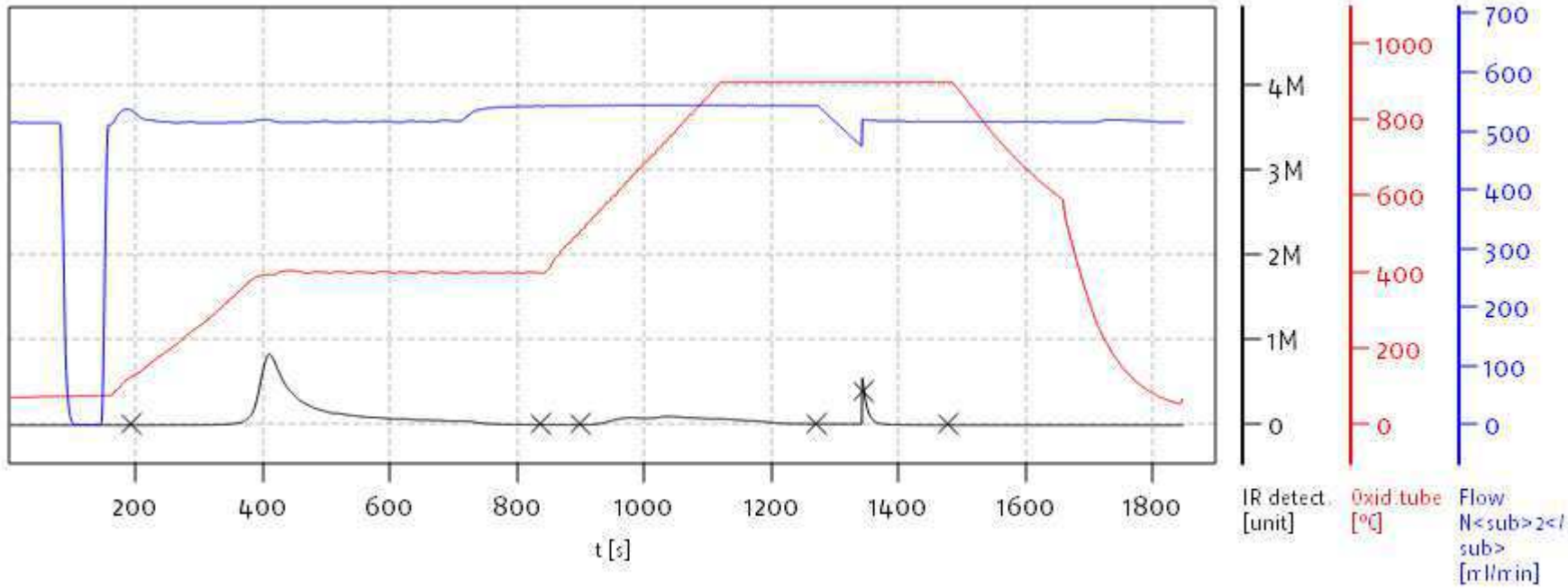
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
167	78	22L0155-63	503.80		CARBON	12/20/2022 12:09 AM	bl	0.787	2 631 460	1.022	0.031	125 896	790 922	0.756	0.235	0.9448	1.0000



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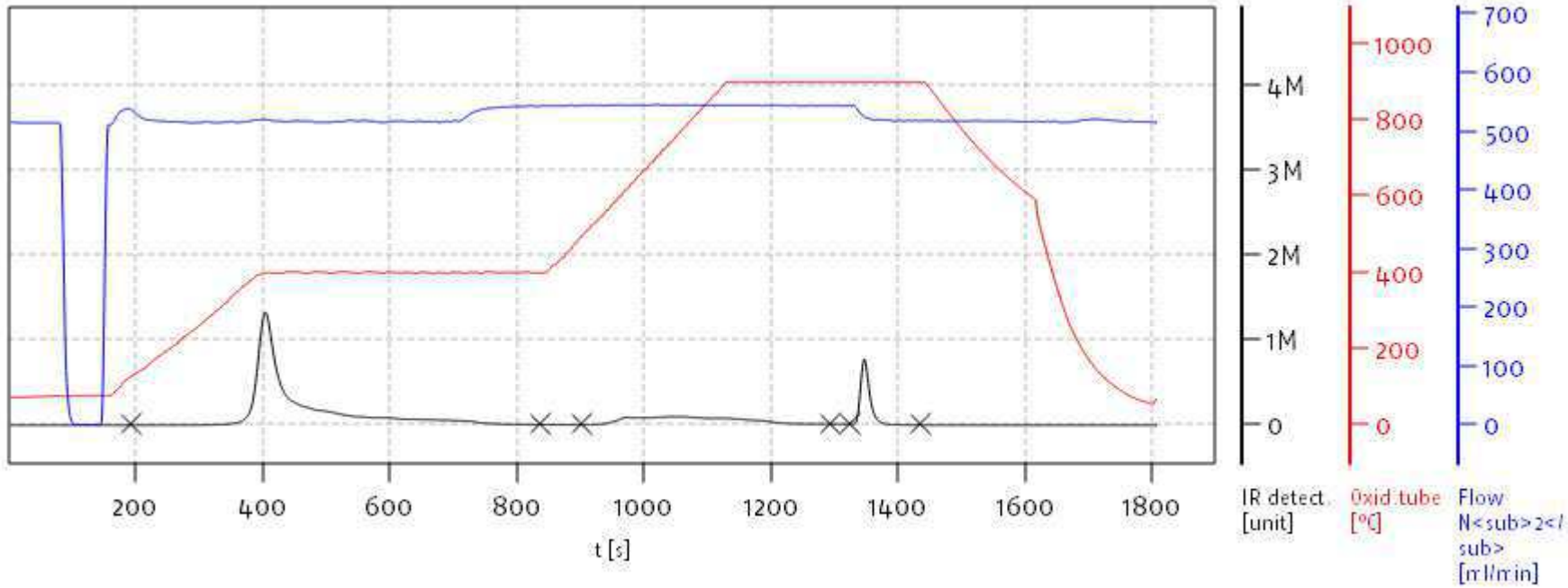
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
168	79	22L0155-64	509.10		CARBON	12/20/2022 12:40 AM	bl	0.994	2 992 340	1.241	0.142	495 108	838 846	0.852	0.247	0.9448	1.0000



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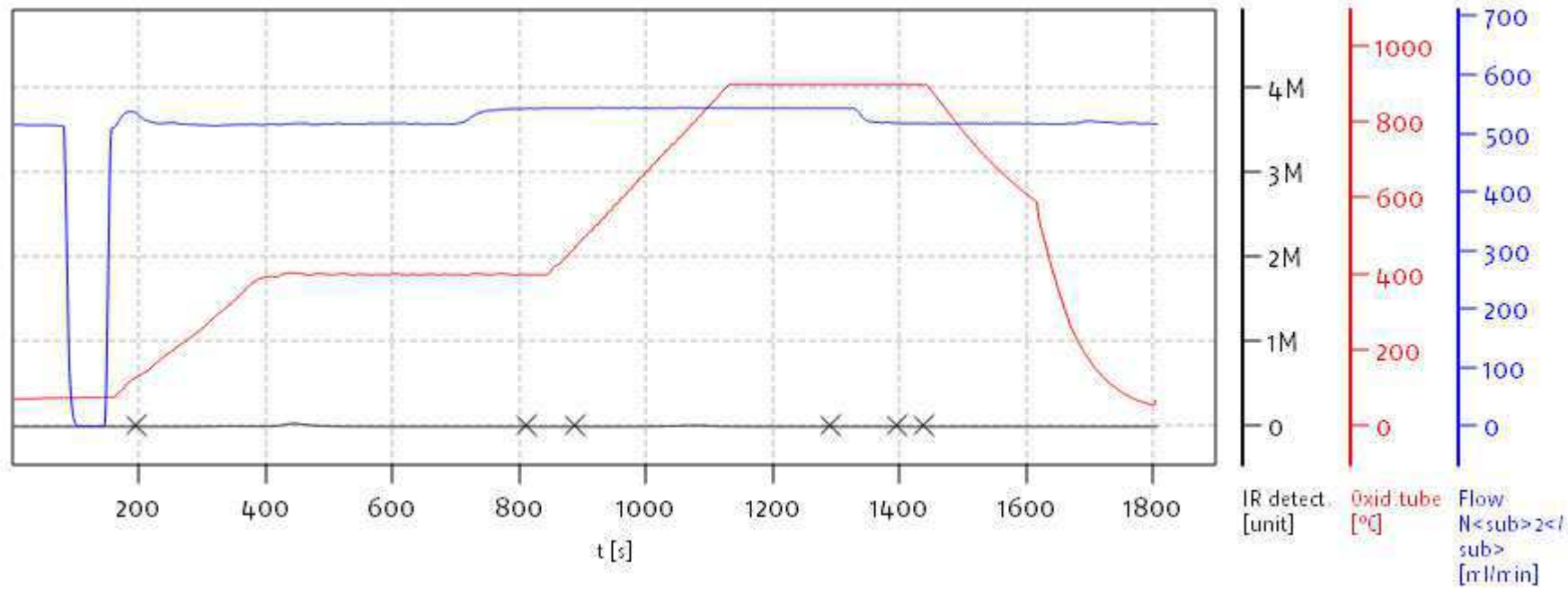
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
169	80	BKL0463-MRL1	512.00		CARBON	12/20/2022 1:10 AM	bl,C2u	0.016	82 500	0.019	0.000	93	36 106	0.016	0.003	0.9448	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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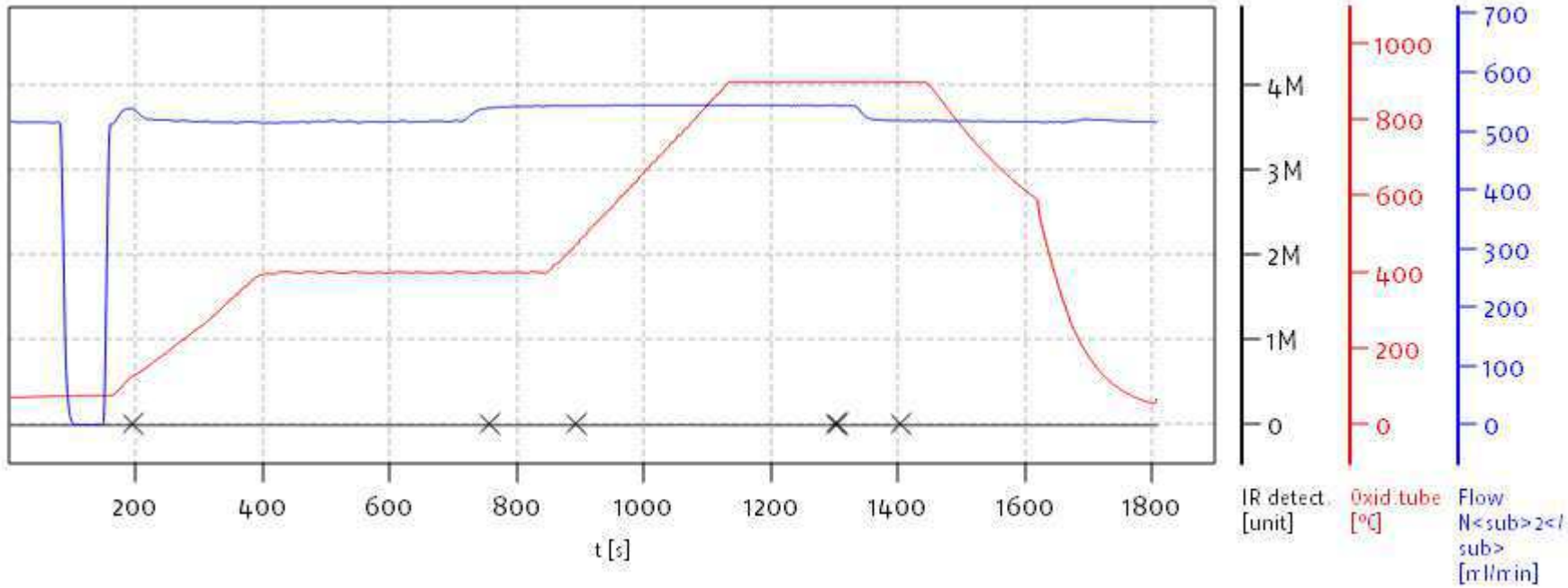
Mode CCC

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
170	81	BKL0463-BLK1	503.90		CARBON	12/20/2022 1:41 AM	bl,C2u	0.000	6 605	0.000	0.000	274	5 913	0.000	0.000	0.9448	1.0000



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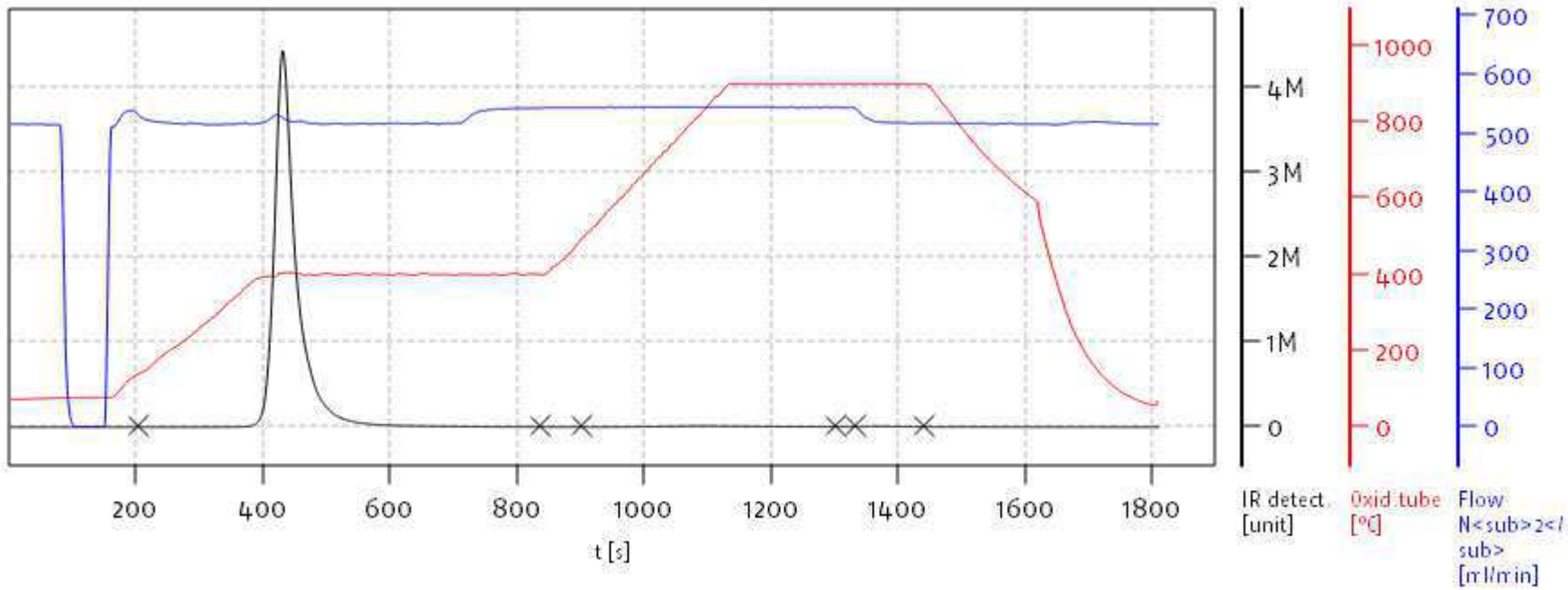
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
171	82	BKL0463-BS1	22.00		CARBON	12/20/2022 2:11 AM	bl	44.521	6 723 480	45.042	0.000	24 433	100 672	44.520	0.522	0.9448	1.0000



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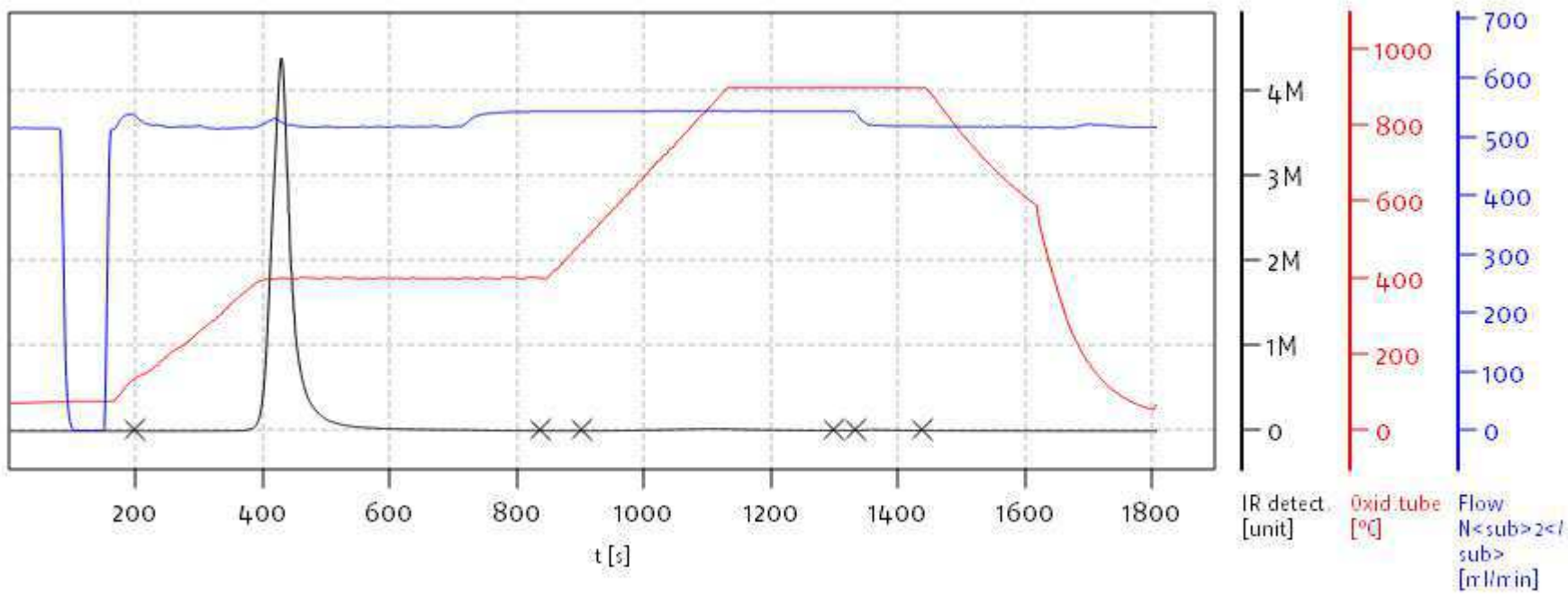
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
172	83	SKL0217-CCVE	20.40		CARBON	12/20/2022 2:42 AM	bl	43.686	6 114 500	44.791	0.039	31 725	172 204	43.646	1.105	0.9448	1.0000



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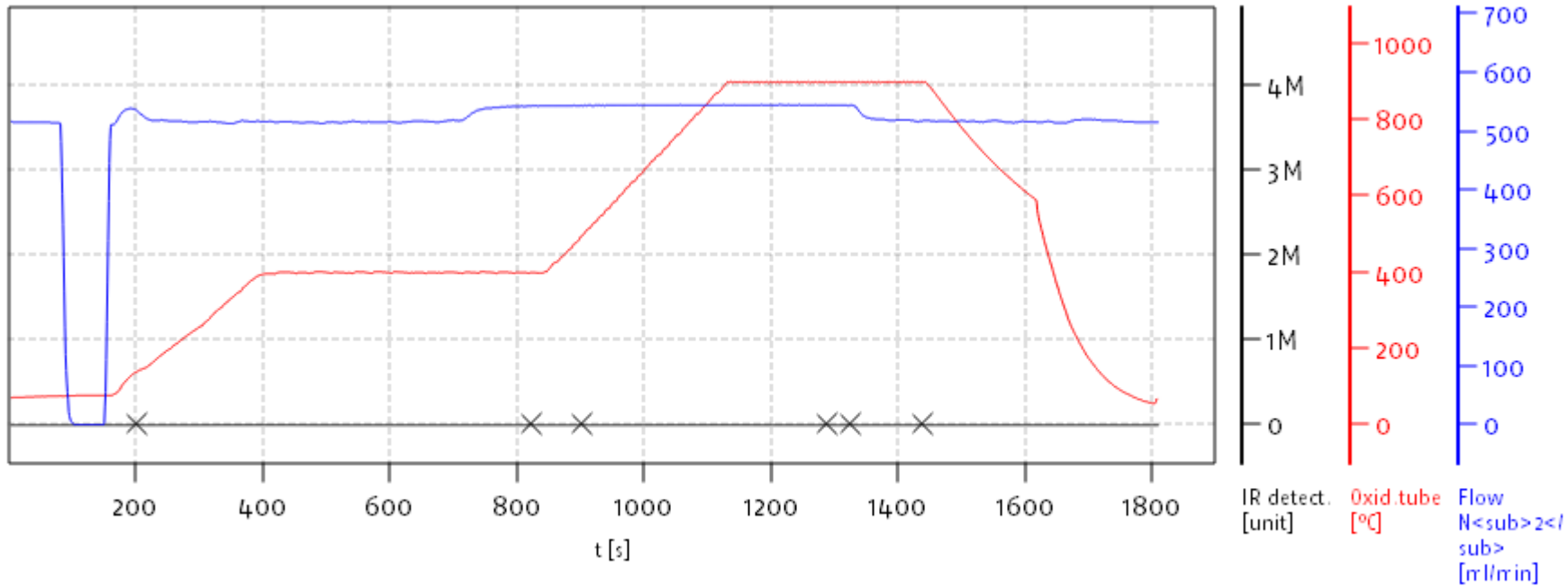
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
173	84	SKL0217-CCBE	541.50		CARBON	12/20/2022 3:12 AM	bl,C2u	0.000	7 687	0.000	0.000	806	6 811	0.000	0.000	0.9448	1.0000



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Balance: BAL3
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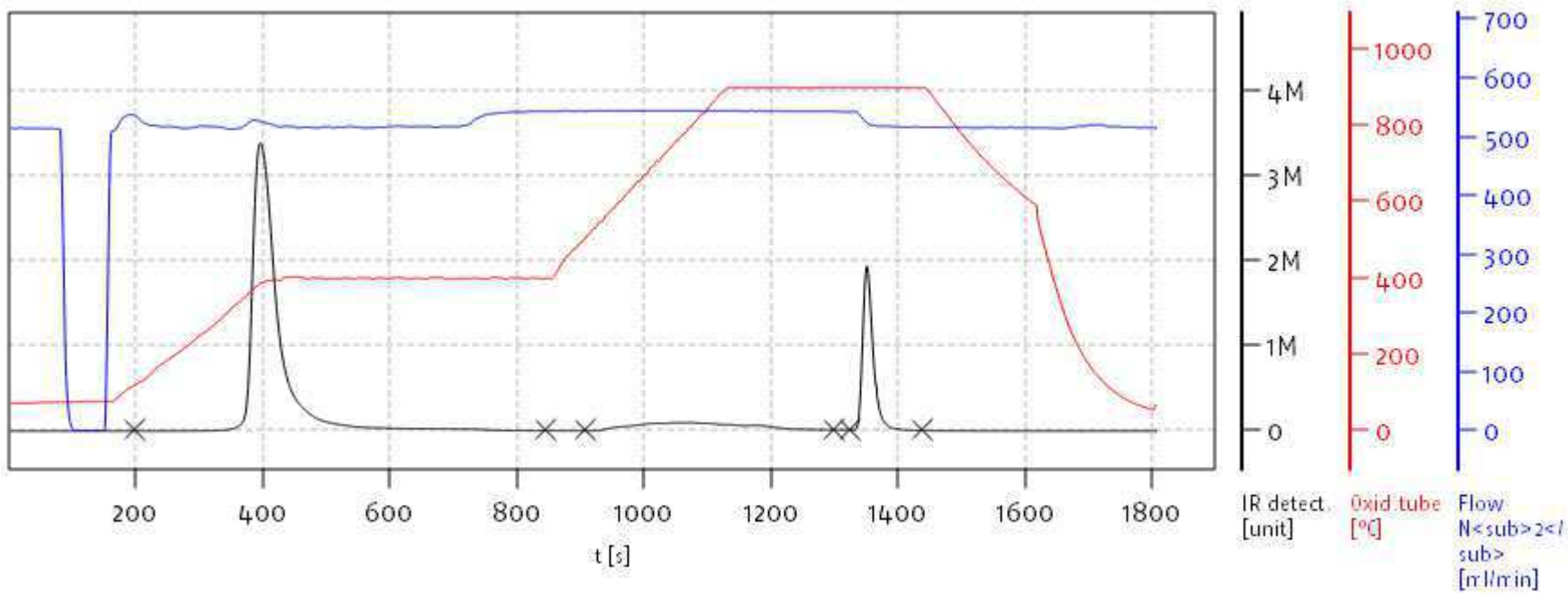
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
174	85	BKL0463-SRM1	347.90		CARBON	12/20/2022 3:43 AM	bl	3.060	5 844 020	3.415	0.614	1 407 440	823 792	2.446	0.355	0.9448	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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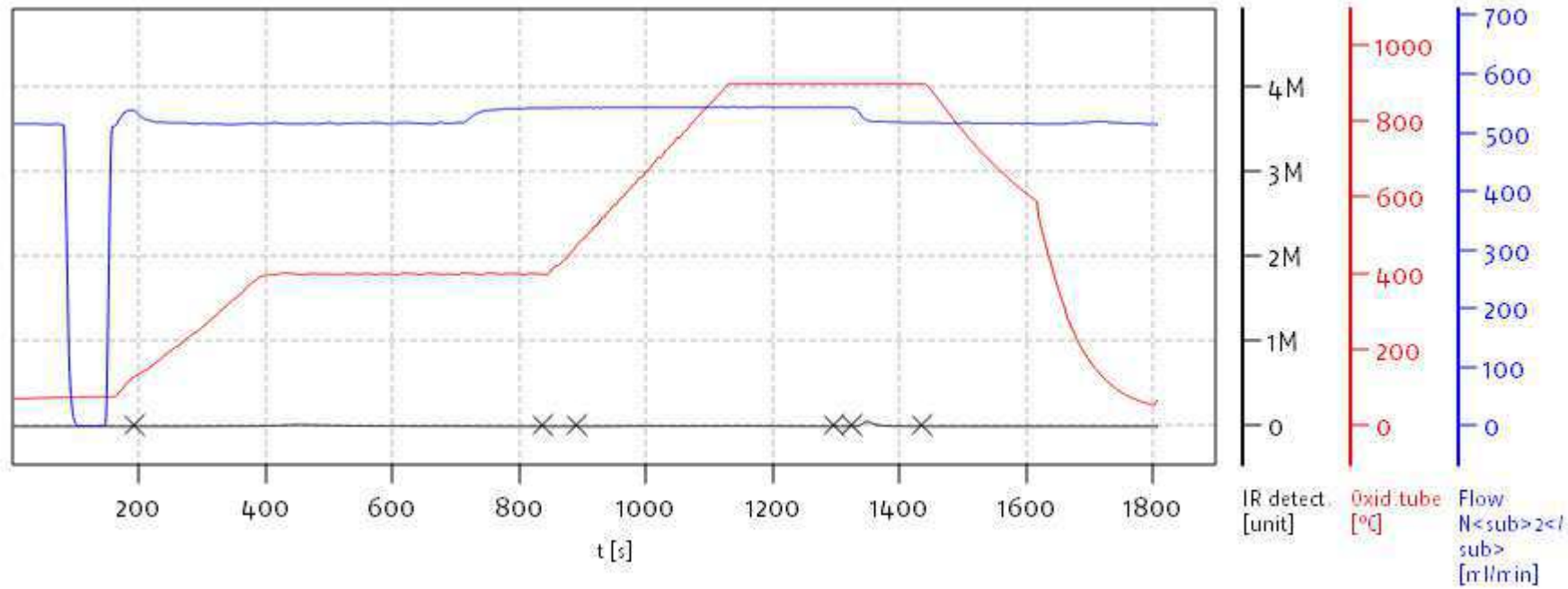
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
175	86	22L0156-01	598.50		CARBON	12/20/2022 4:13 AM	bl	0.023	96 957	0.027	0.006	48 901	40 795	0.017	0.004	0.9448	1.0000



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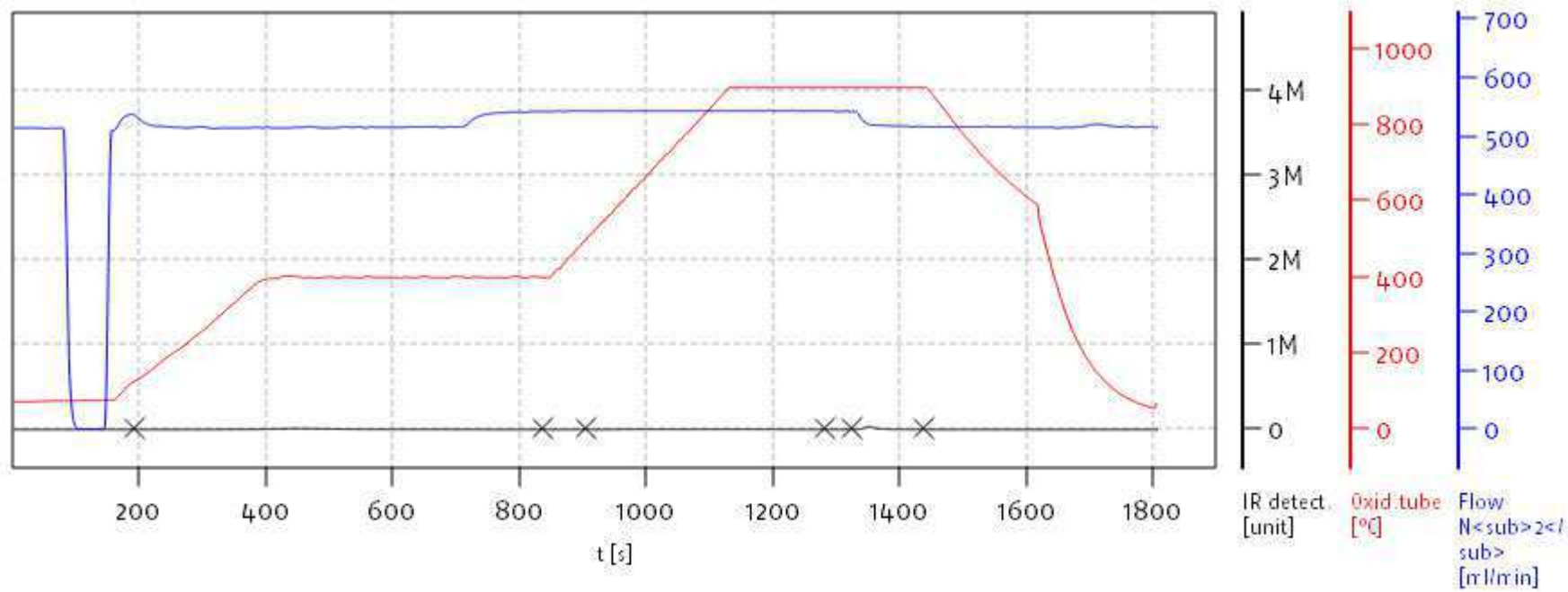
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
176	87	BKL0463-DUP1	598.40		CARBON	12/20/2022 4:44 AM	bl	0.011	66 509	0.013	0.001	31 133	33 971	0.010	0.002	0.9448	1.0000



Name:

Access: soliTOC superuser

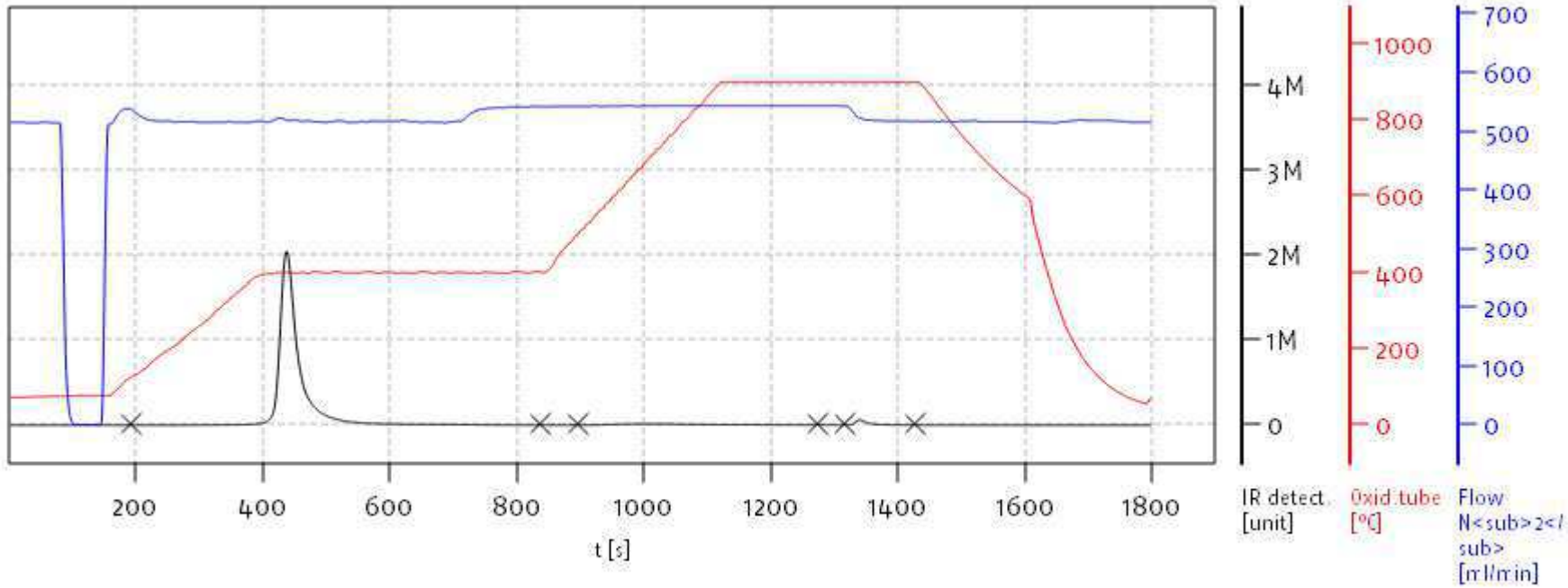
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
177	88	BKL0463-MS1	601.50	0.0085	CARBON	12/20/2022 5:14 AM	bl	0.640	2 625 410	0.658	0.008	56 440	98 817	0.632	0.019	0.9448	1.0000



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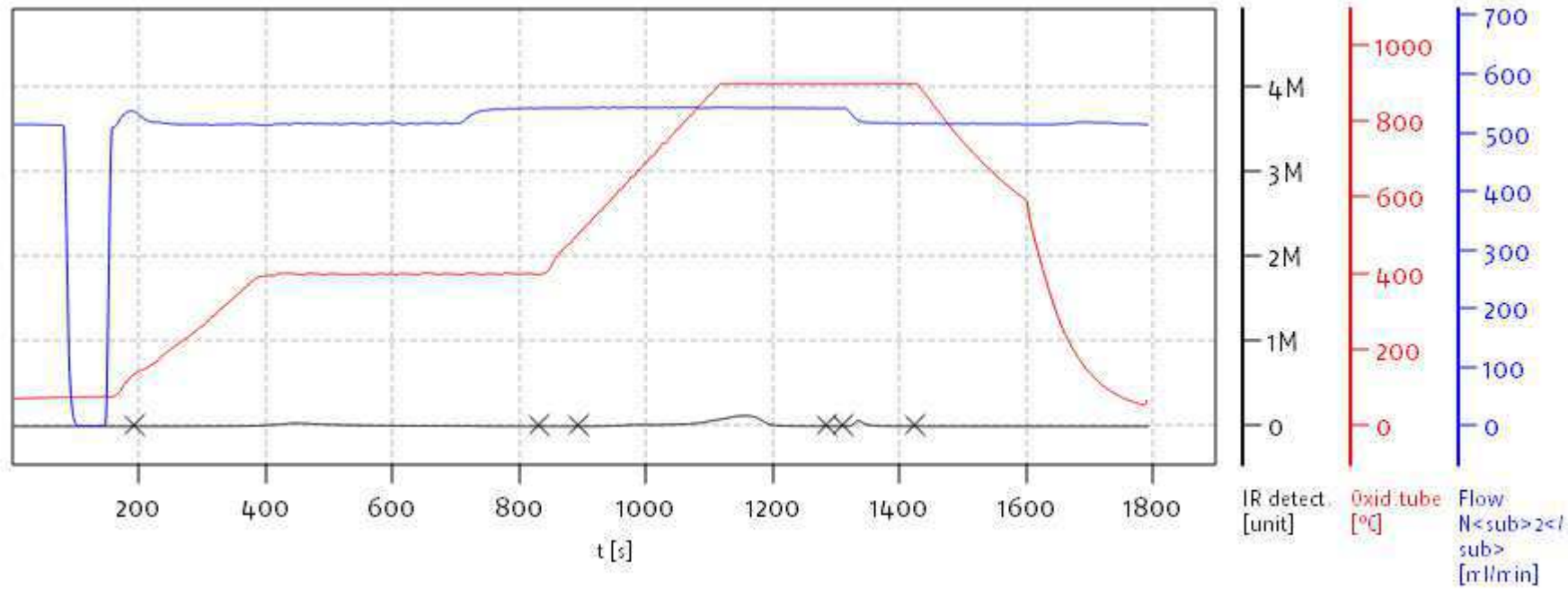
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
178	89	22L0156-02	501.20		CARBON	12/20/2022 5:45 AM	bl	0.058	198 479	0.199	0.008	51 774	484 681	0.050	0.142	0.9448	1.0000



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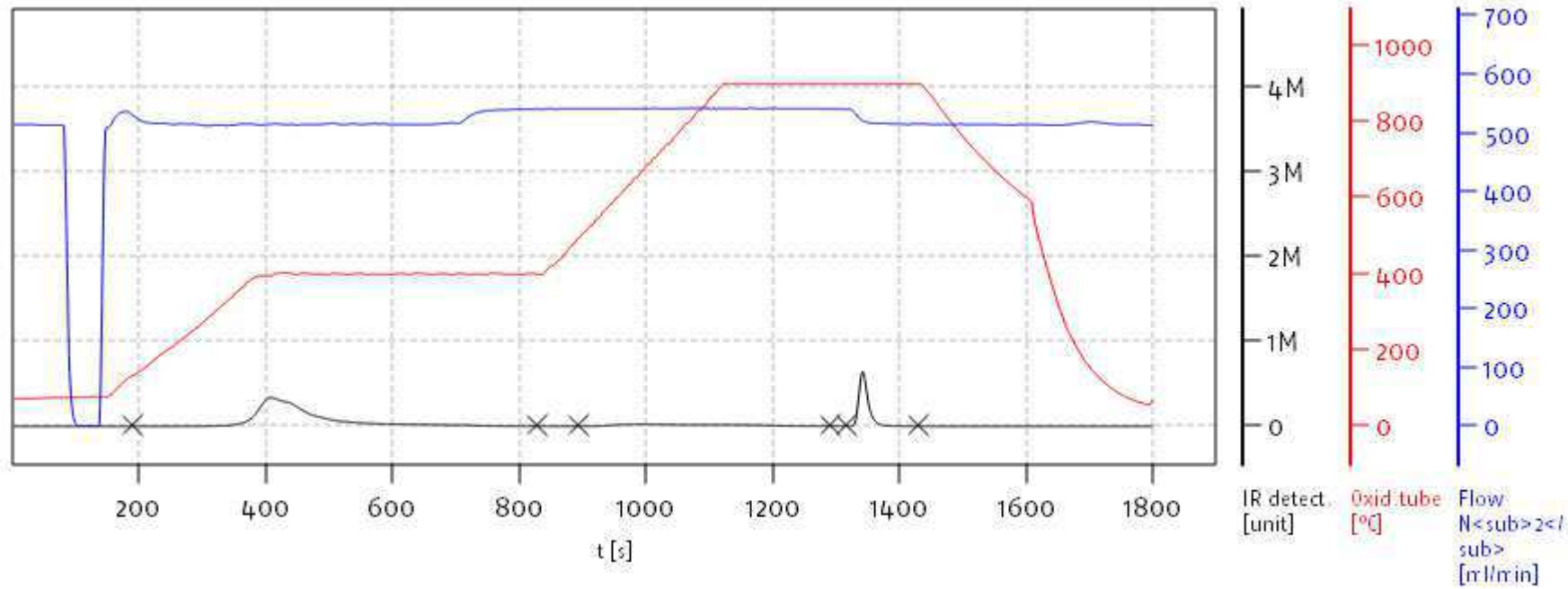
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
179	1	22L0156-03	500.00		CARBON	12/20/2022 6:15 AM	bl	0.499	1 324 590	0.553	0.119	412 411	199 861	0.380	0.054	0.9448	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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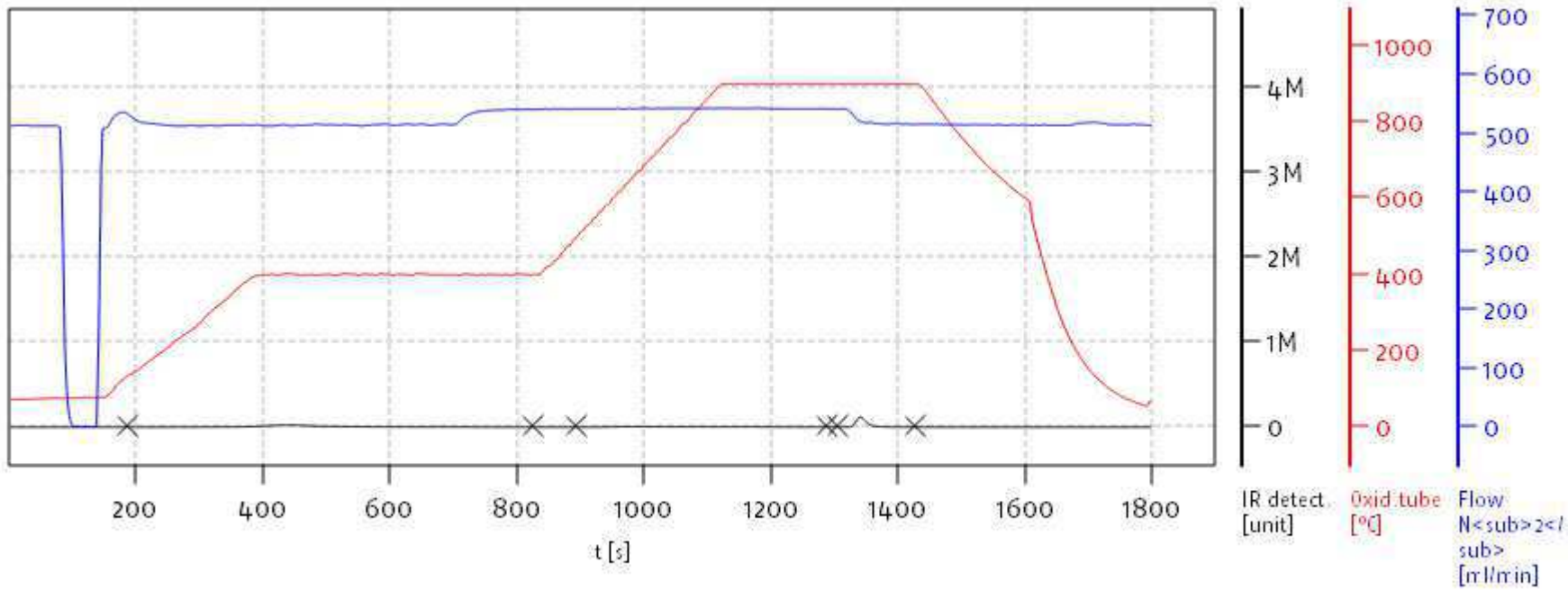
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
180	2	22L0156-04	523.40		CARBON	12/20/2022 6:45 AM	bl	0.045	122 106	0.051	0.018	87 731	47 796	0.027	0.006	0.9448	1.0000



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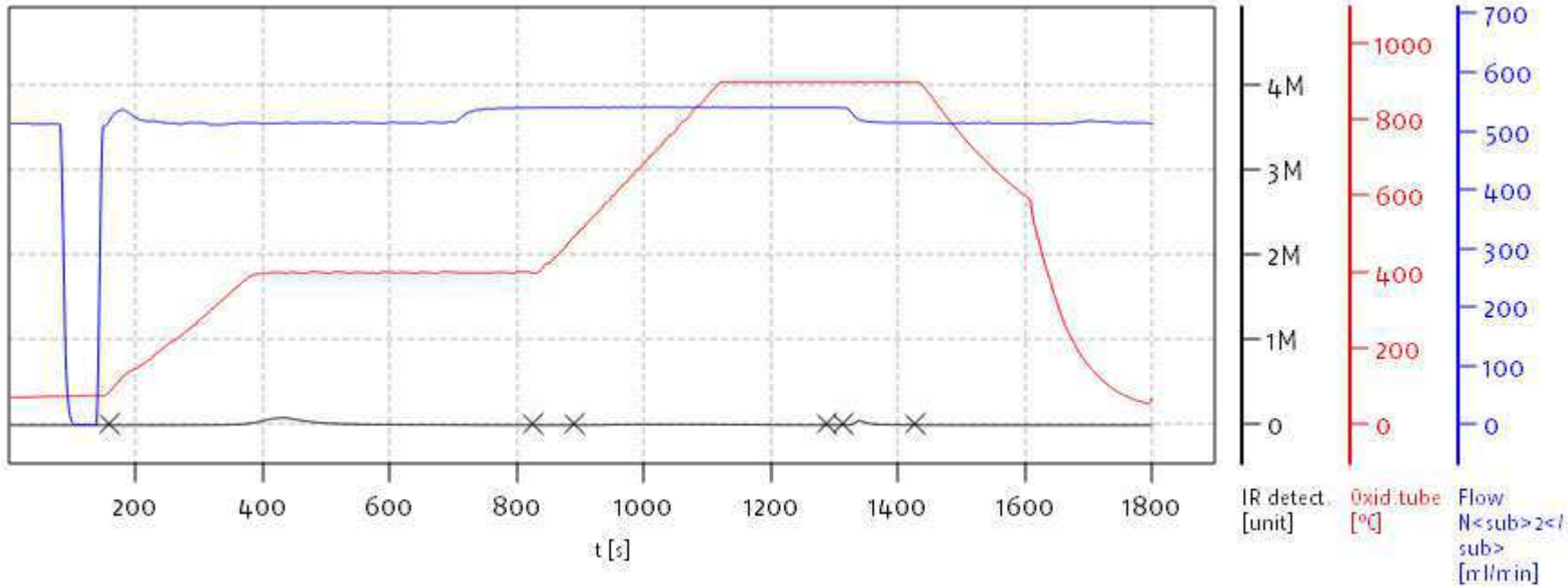
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
181	3	22L0156-05	513.30		CARBON	12/20/2022 7:16 AM	bl	0.095	332 727	0.110	0.008	52 564	77 600	0.087	0.015	0.9448	1.0000



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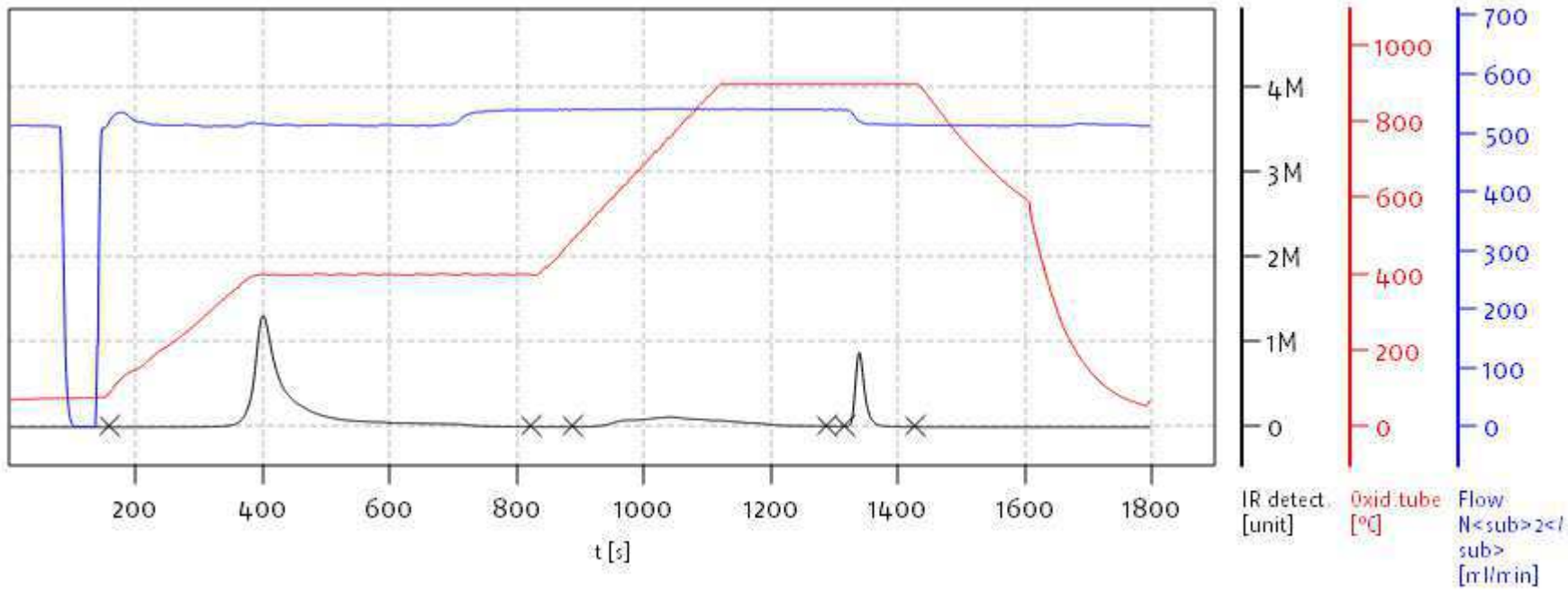
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
182	4	22L0199-01	524.40		CARBON	12/20/2022 7:46 AM	bl	0.969	2 921 100	1.206	0.162	574 519	829 196	0.807	0.237	0.9448	1.0000



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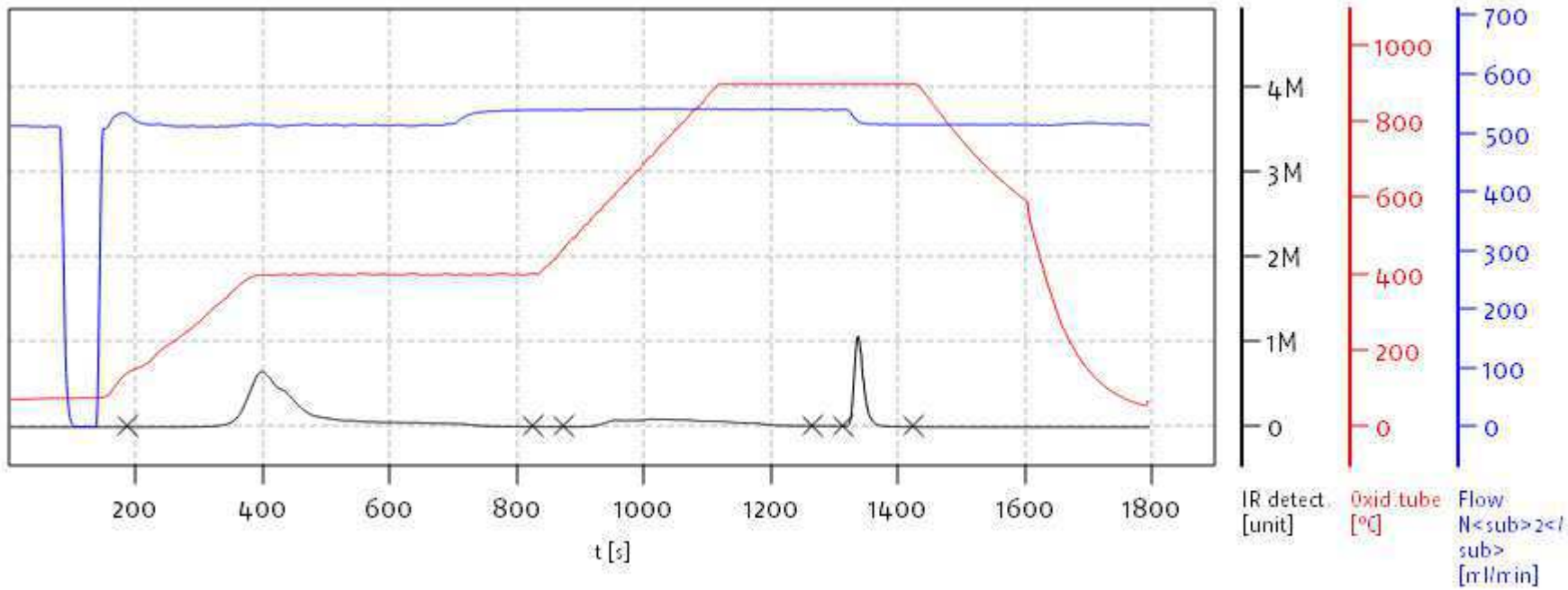
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
183	5	22L0199-02	505.50		CARBON	12/20/2022 8:17 AM	bl	0.903	2 427 950	1.127	0.209	707 865	755 105	0.695	0.223	0.9448	1.0000



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Date: Wed Dec 21 09:58:21 2022

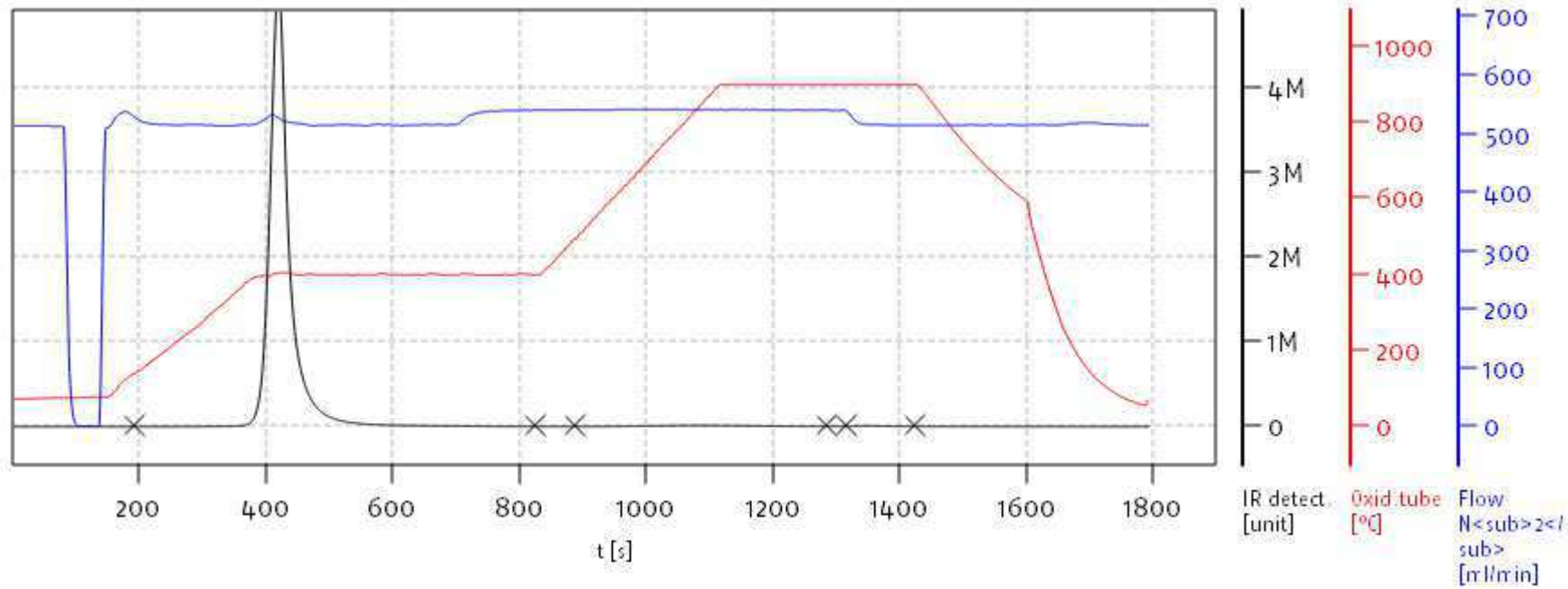
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
184	6	SKL0217-CCVF	22.50		CARBON	12/20/2022 8:47 AM	bl	45.118	6 967 550	45.663	0.000	22 312	105 828	45.118	0.546	0.9448	1.0000



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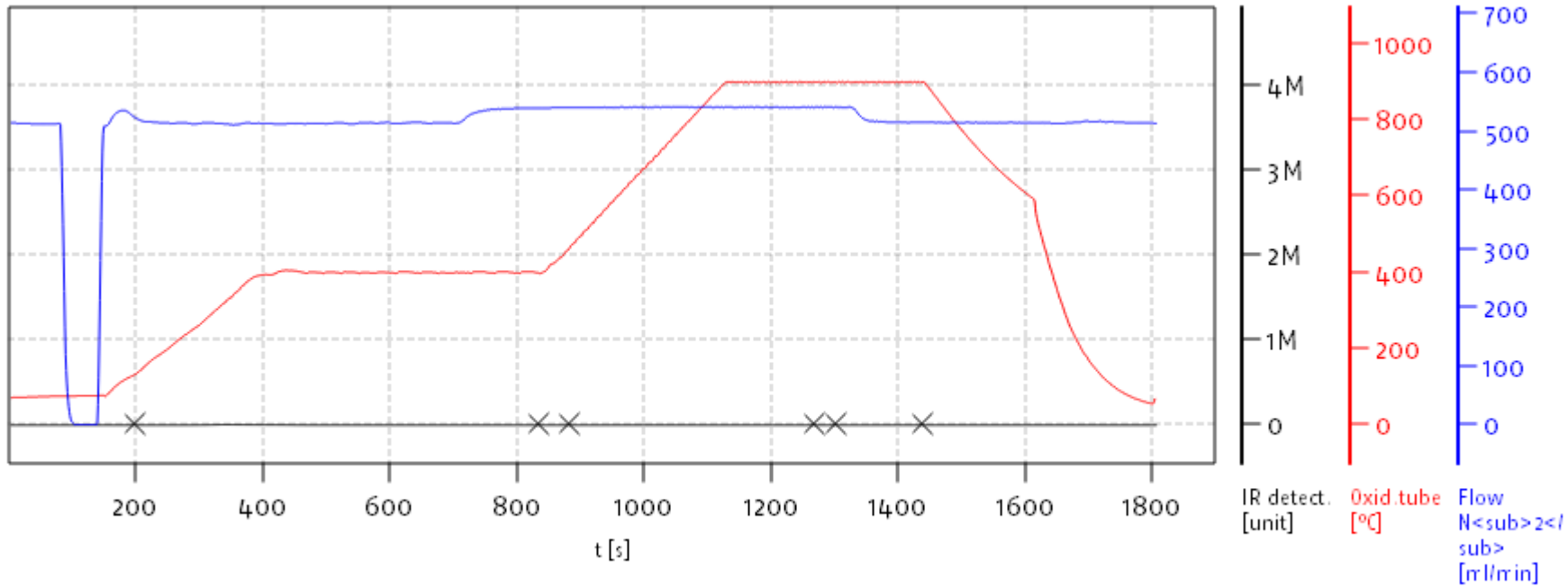
Serial No: 0300.181017
Mode CCC

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
185	7	SKL0217-CCBF	537.70		CARBON	12/20/2022 9:17 AM	bl,C3u,C2u	0.000	21 484	0.000	0.000	398	1 196	0.000	0.000	0.9448	1.0000



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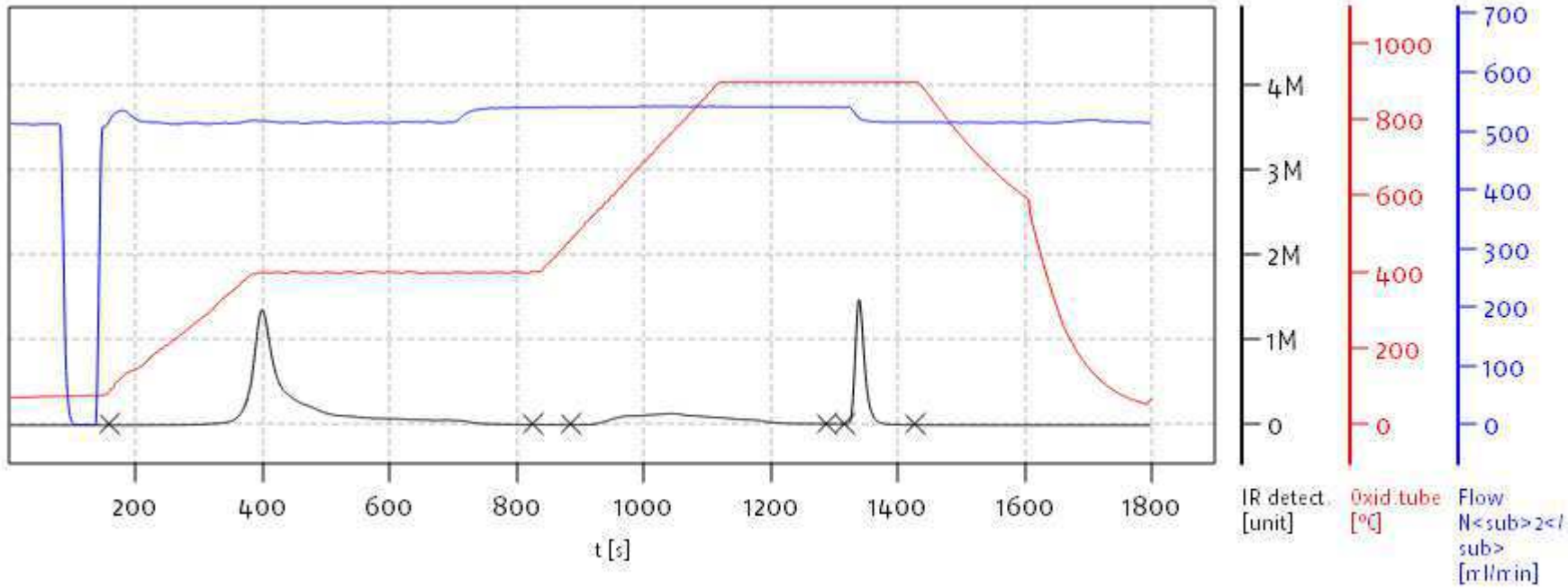
Serial No: 0300.181017
Mode CCC

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
186	8	22L0199-03	560.10		CARBON	12/20/2022 9:48 AM	bl	1.115	3 291 930	1.391	0.262	975 703	1 023 980	0.853	0.276	0.9448	1.0000



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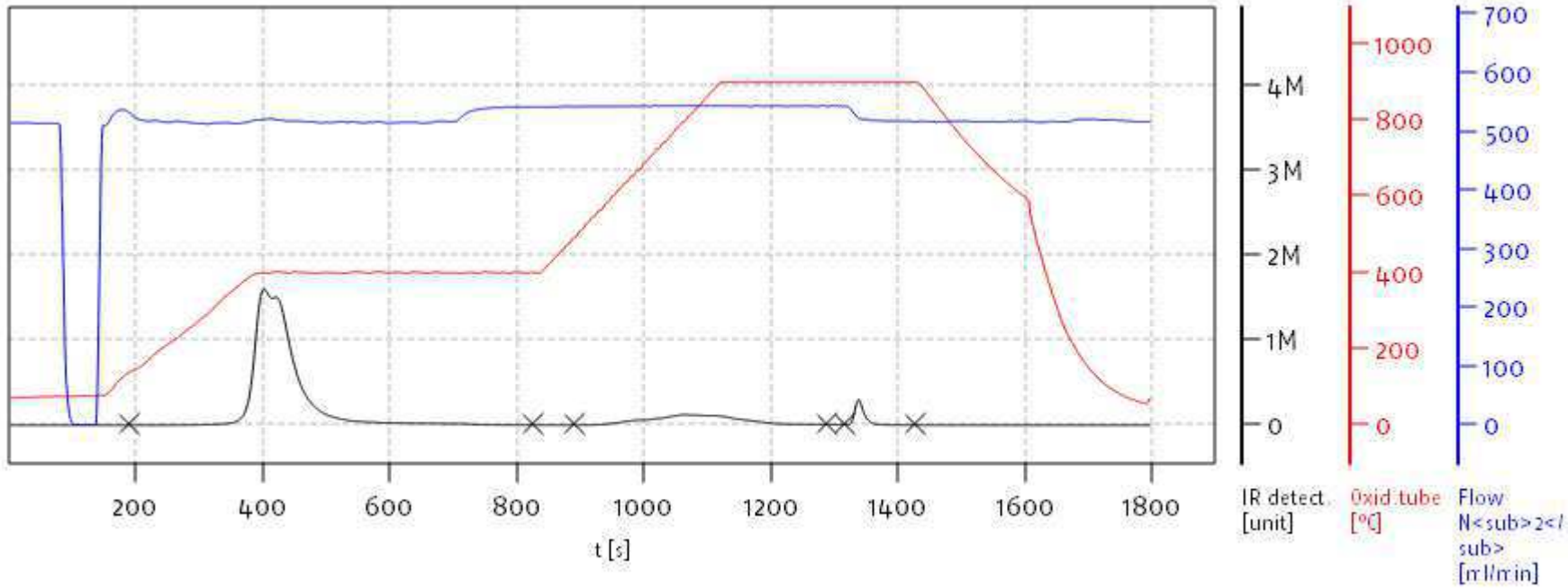
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
187	9	22L0199-04	522.70		CARBON	12/20/2022 10:18 AM	bl	1.255	4 331 230	1.479	0.051	197 323	782 278	1.204	0.224	0.9448	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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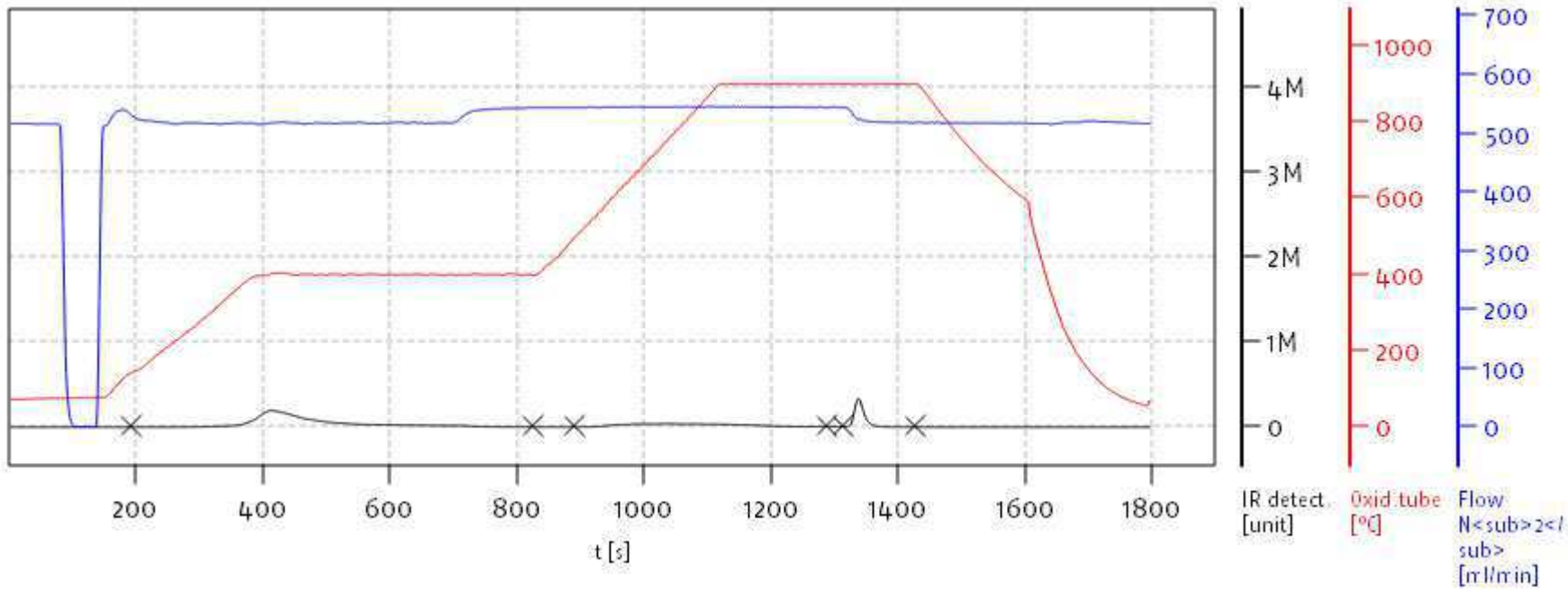
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
188	10	22L0199-05	516.00		CARBON	12/20/2022 10:49 AM	bl	0.300	874 341	0.392	0.059	224 340	333 507	0.240	0.092	0.9448	1.0000



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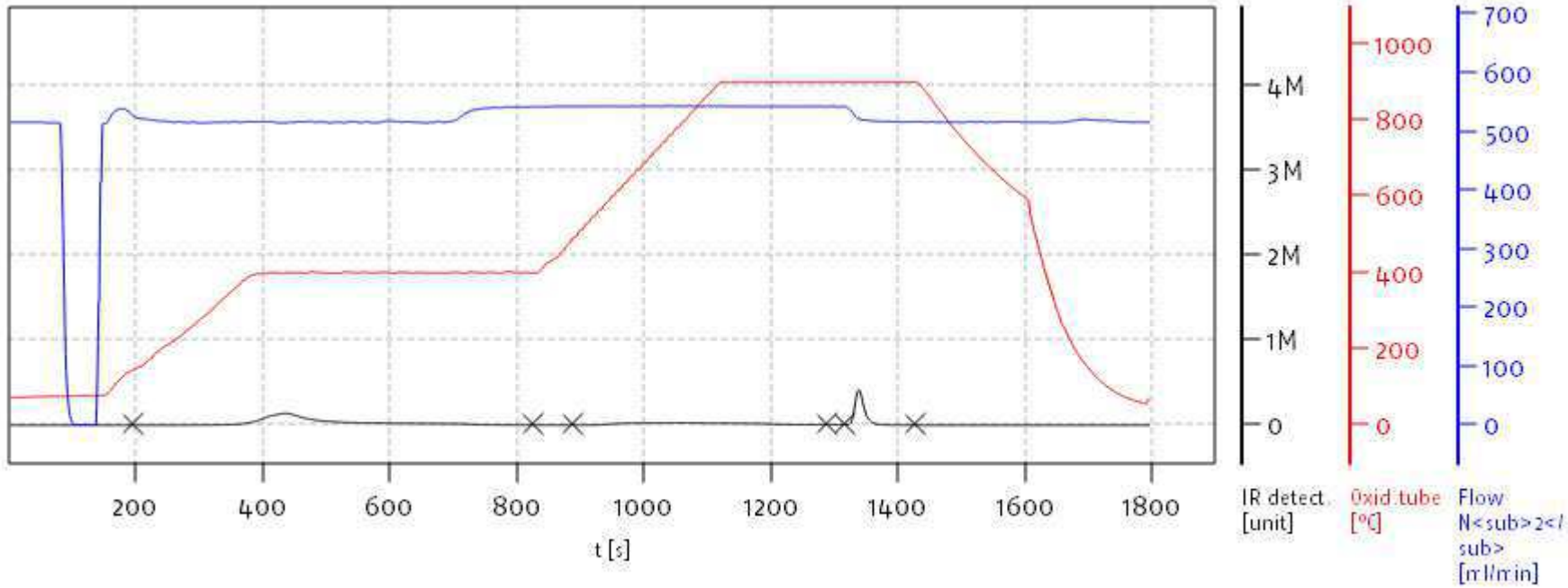
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
189	11	22L0199-06	548.90		CARBON	12/20/2022 11:19 AM	bl	0.232	639 113	0.294	0.069	269 938	247 418	0.163	0.062	0.9448	1.0000



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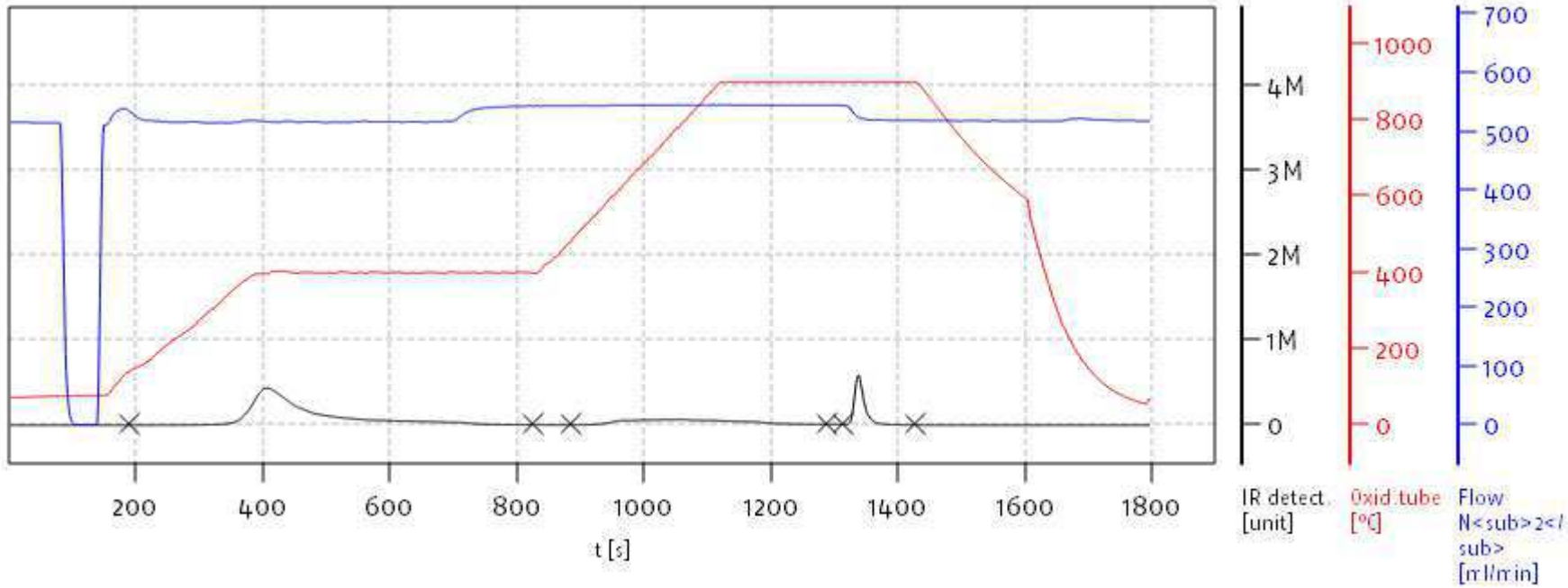
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
190	12	22L0199-07	504.50		CARBON	12/20/2022 11:49 AM	bl	0.636	1 823 540	0.800	0.115	402 585	560 617	0.521	0.164	0.9448	1.0000



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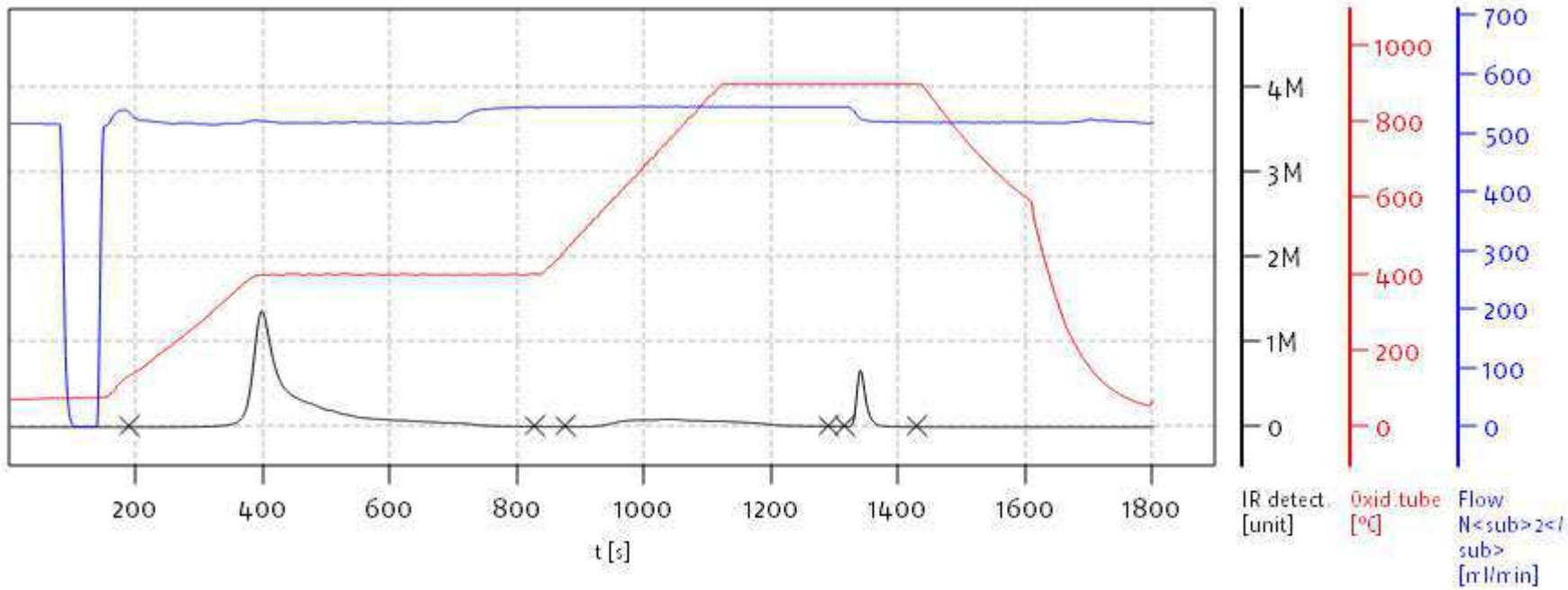
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
191	13	22L0199-08	540.40		CARBON	12/20/2022 12:20 PM	bl	1.076	3 577 230	1.281	0.116	429 874	738 756	0.961	0.204	0.9448	1.0000



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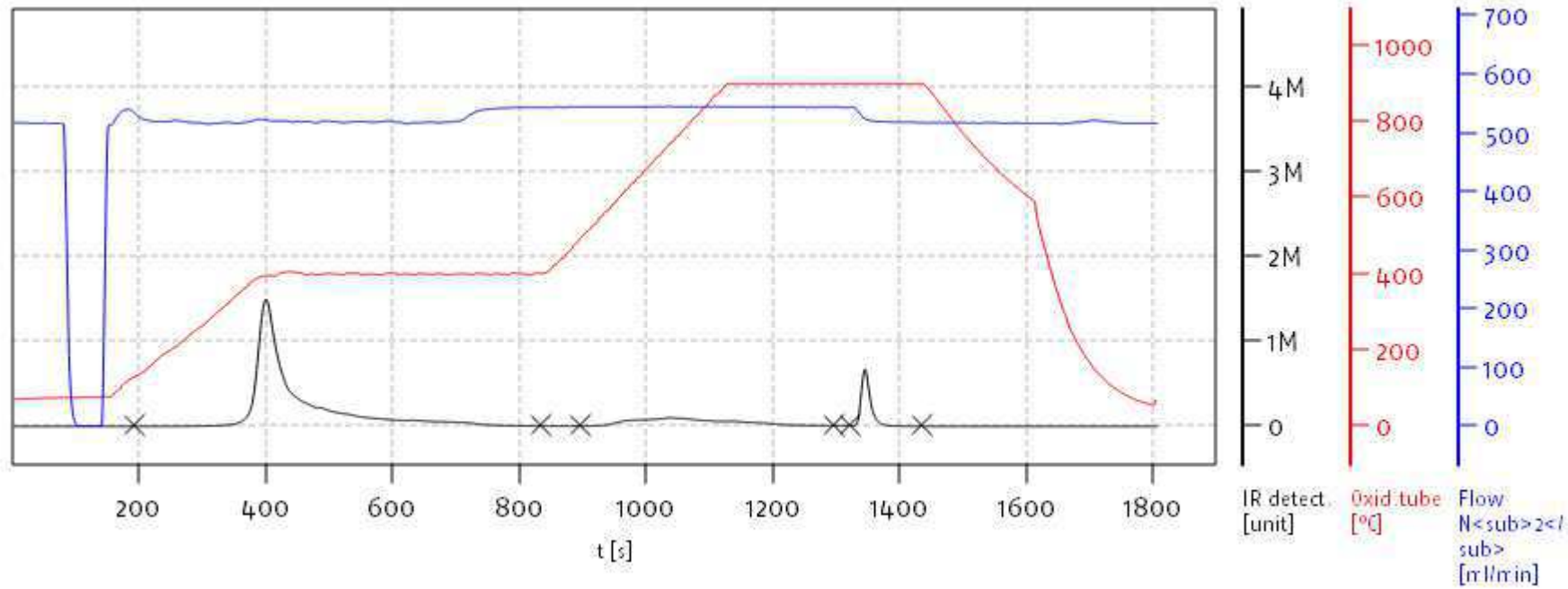
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
192	14	22L0199-09	519.80		CARBON	12/20/2022 12:50 PM	bl	1.109	3 542 490	1.314	0.120	428 410	715 126	0.989	0.205	0.9448	1.0000



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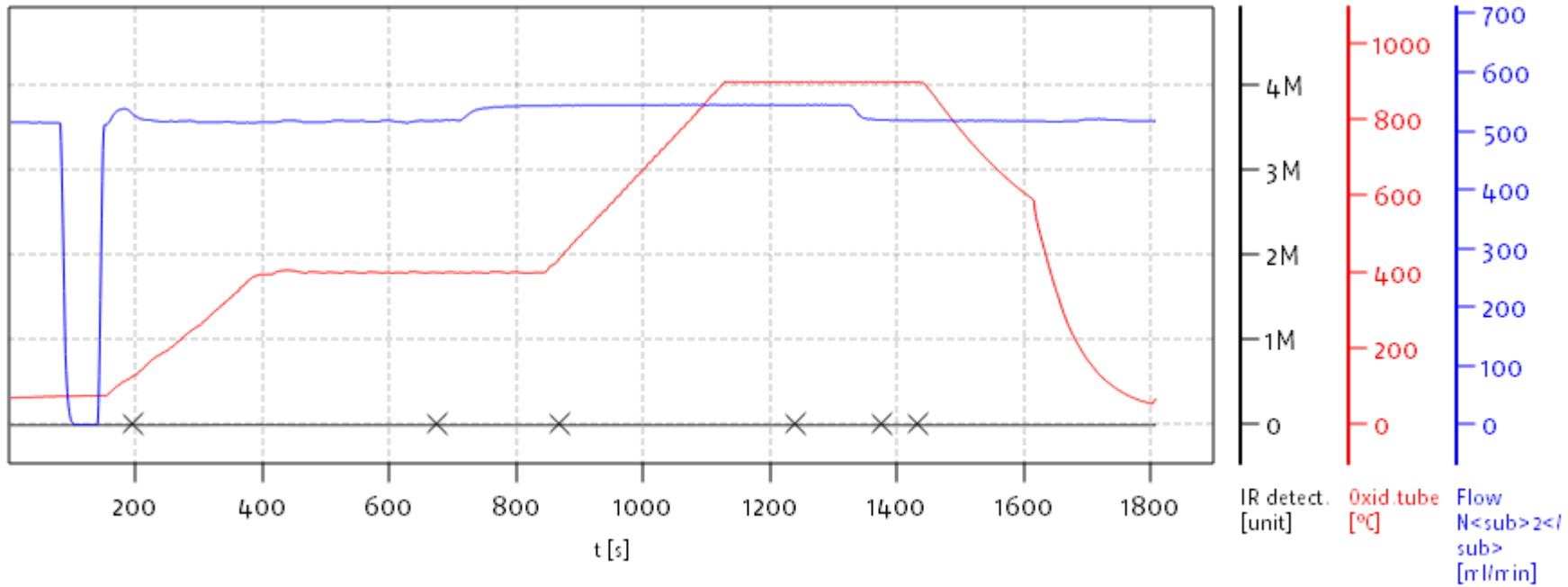
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
193	15	BLANK	1.00		CARBON	12/20/2022 1:21 PM	bl	0.000	10 041	0.000	0.000	91	568	0.000	0.000	0.9448	1.0000



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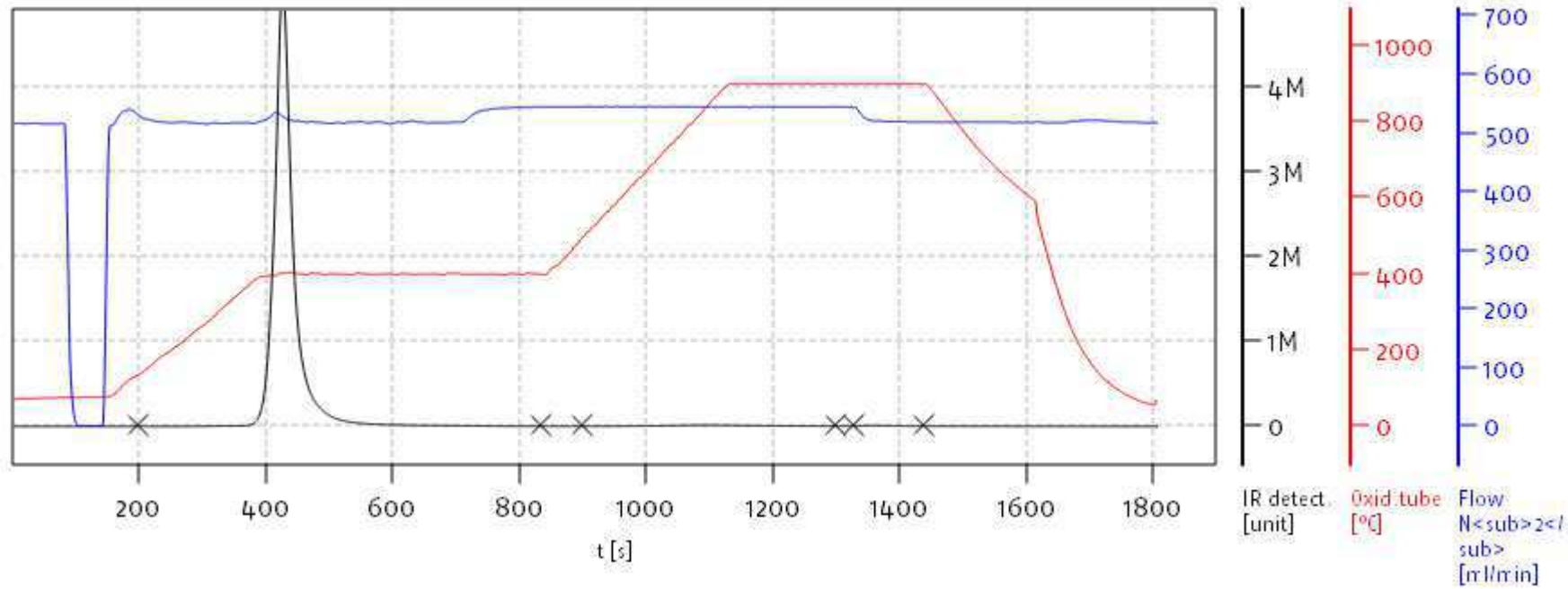
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
194	16	Dfactor	21.60		CARBON	12/20/2022 1:51 PM	bl	44.446	6 665 330	45.009	0.000	23 938	105 172	44.446	0.564	0.9341	1.0000



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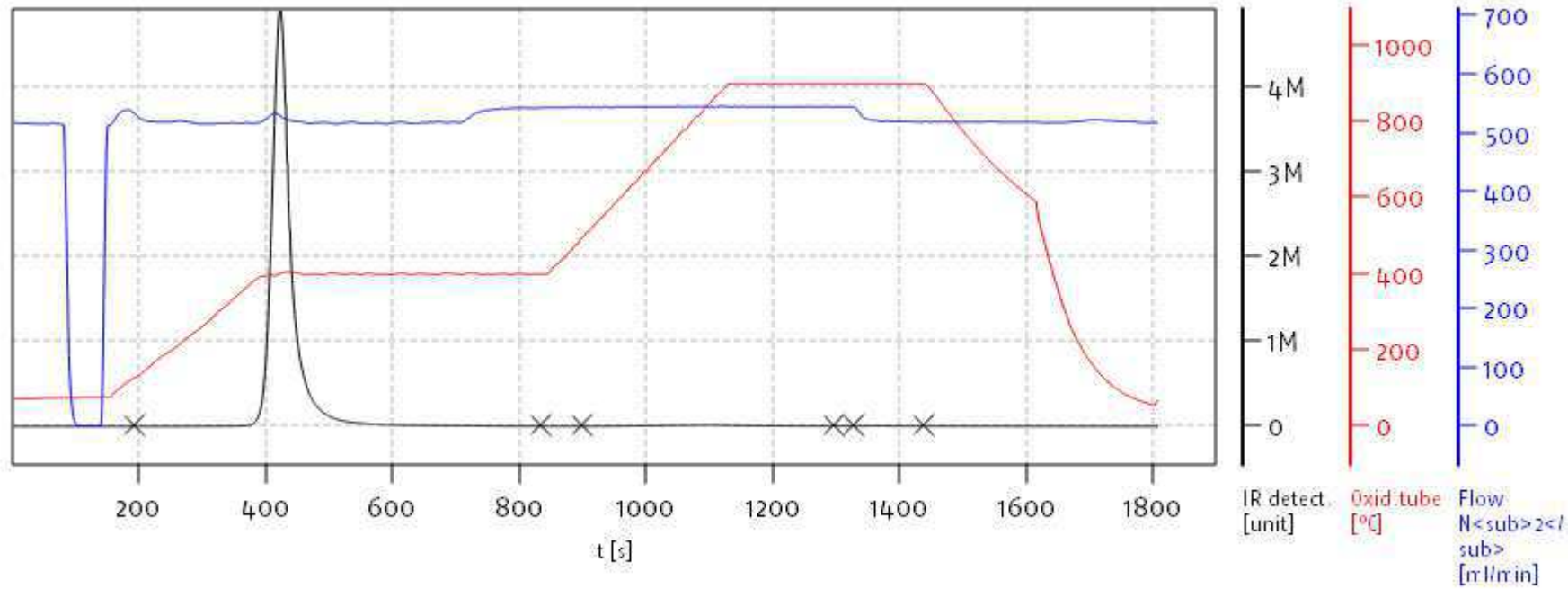
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
195	17	Dfactor	21.10		CARBON	12/20/2022 2:22 PM	bl	44.446	6 552 730	45.141	0.000	15 933	121 315	44.446	0.695	0.9283	1.0000



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Access: soliTOC superuser

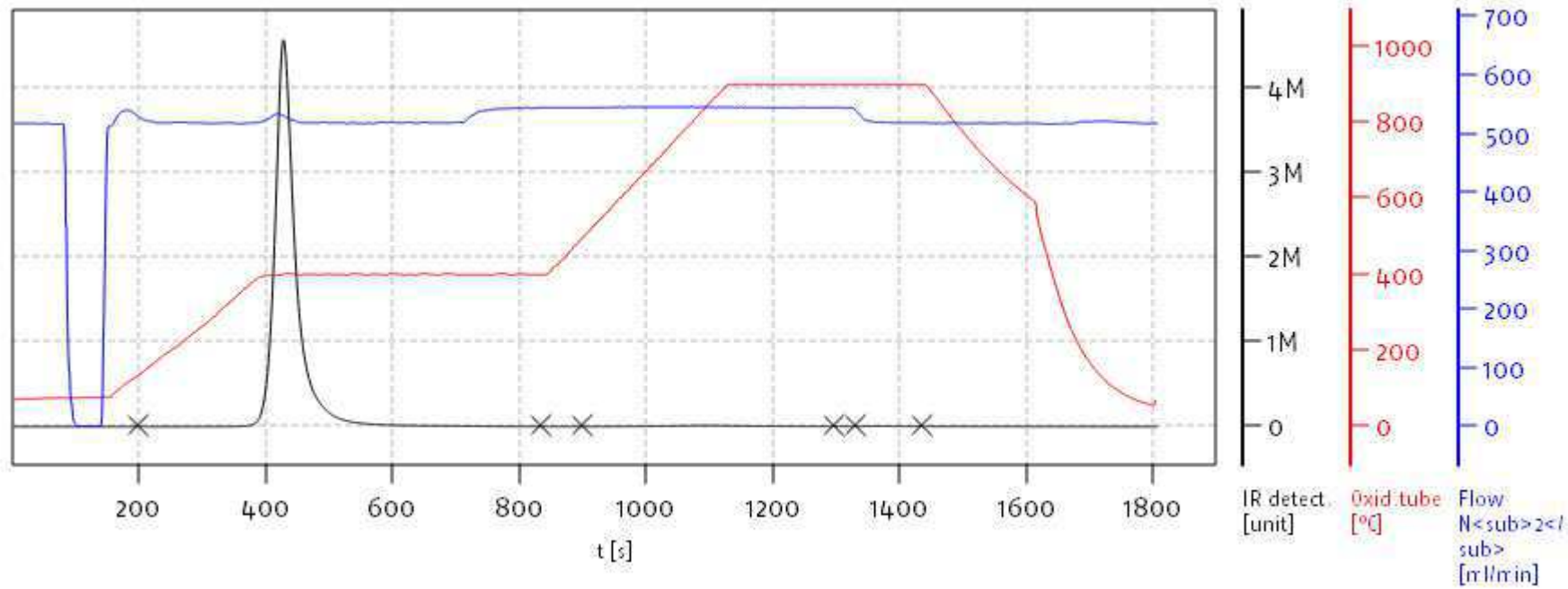
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
196	18	SKL0217-CCVG	21.40		CARBON	12/20/2022 2:52 PM	bl	44.189	6 586 520	44.630	0.000	18 852	87 537	44.189	0.441	0.9312	1.0000



Name:

Access: soliTOC superuser

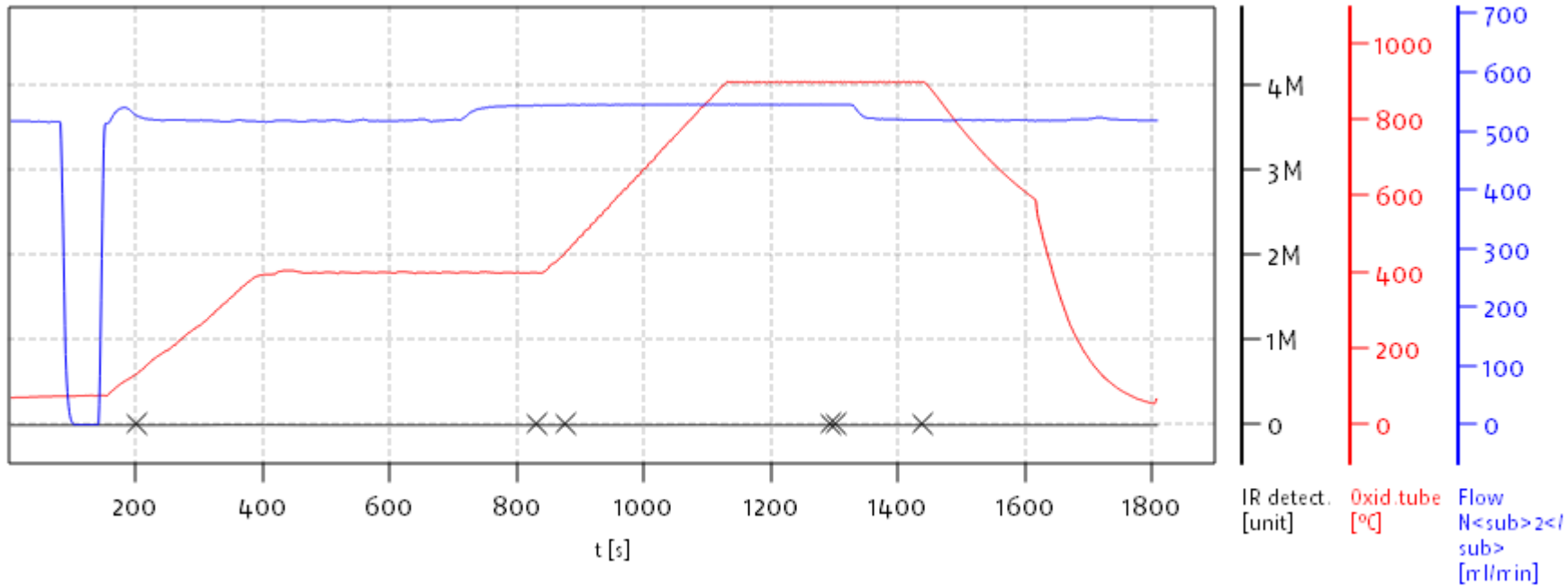
Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
197	19	SKL0217-CCBG	520.70		CARBON	12/20/2022 3:23 PM	bl,C2u	0.000	12 328	0.000	0.000	705	6 361	0.000	0.000	0.9312	1.0000



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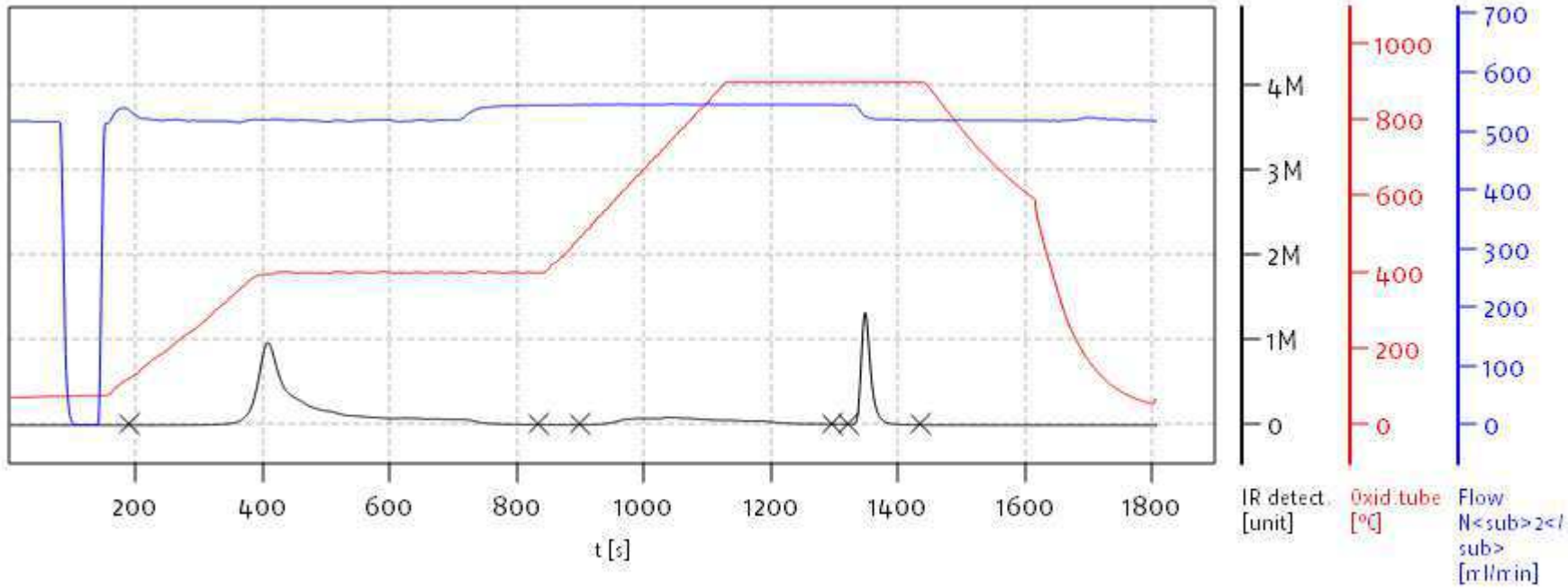
EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
198	20	22L0199-10	519.10		CARBON	12/20/2022 3:54 PM	bl	1.053	2 892 420	1.256	0.257	887 781	708 865	0.796	0.203	0.9312	1.0000



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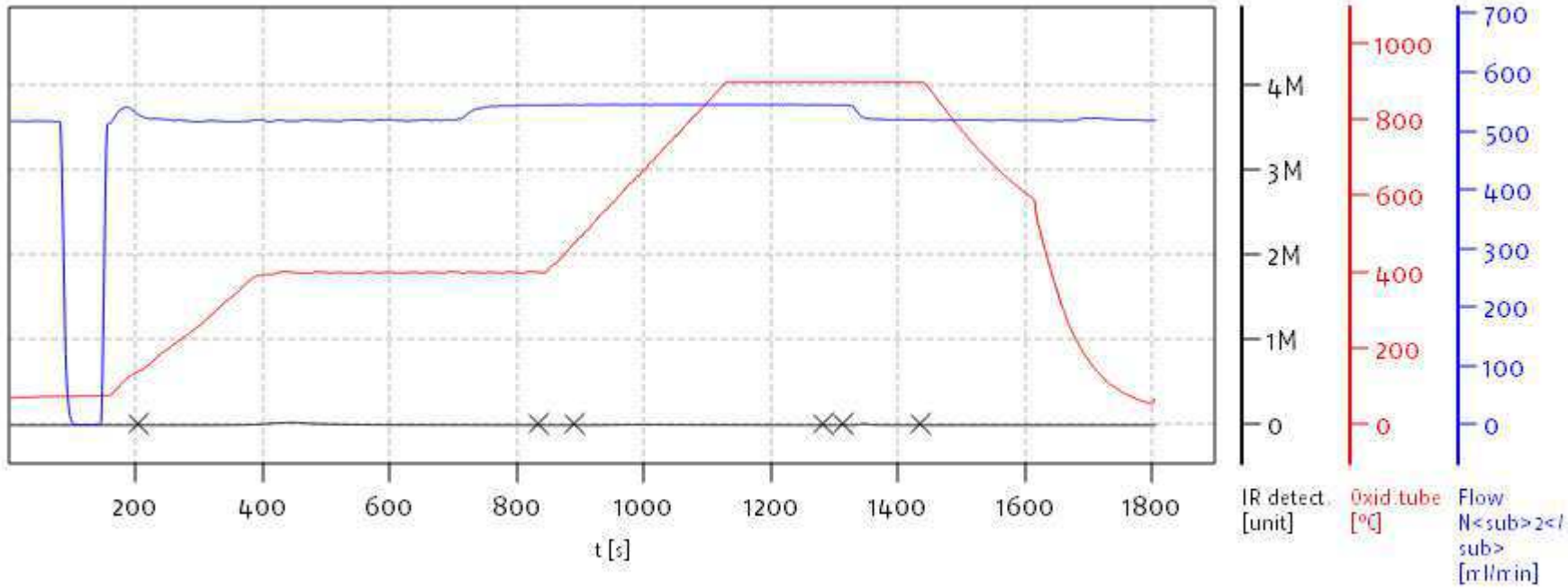
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
199	21	22L0199-11	612.50		CARBON	12/20/2022 4:24 PM	bl	0.025	131 352	0.027	0.000	11 023	34 262	0.025	0.002	0.9312	1.0000



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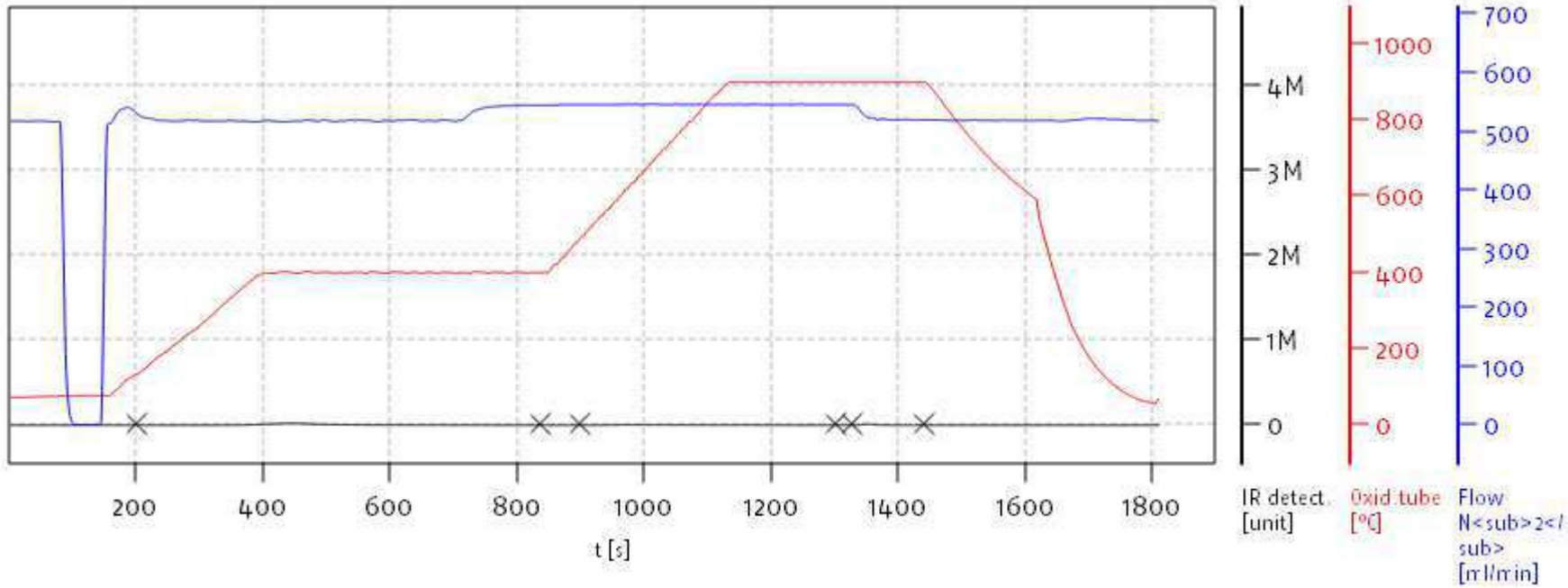
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
200	22	22L0199-12	505.10		CARBON	12/20/2022 4:55 PM	bl	0.020	97 615	0.020	0.000	9 973	26 039	0.020	0.000	0.9312	1.0000



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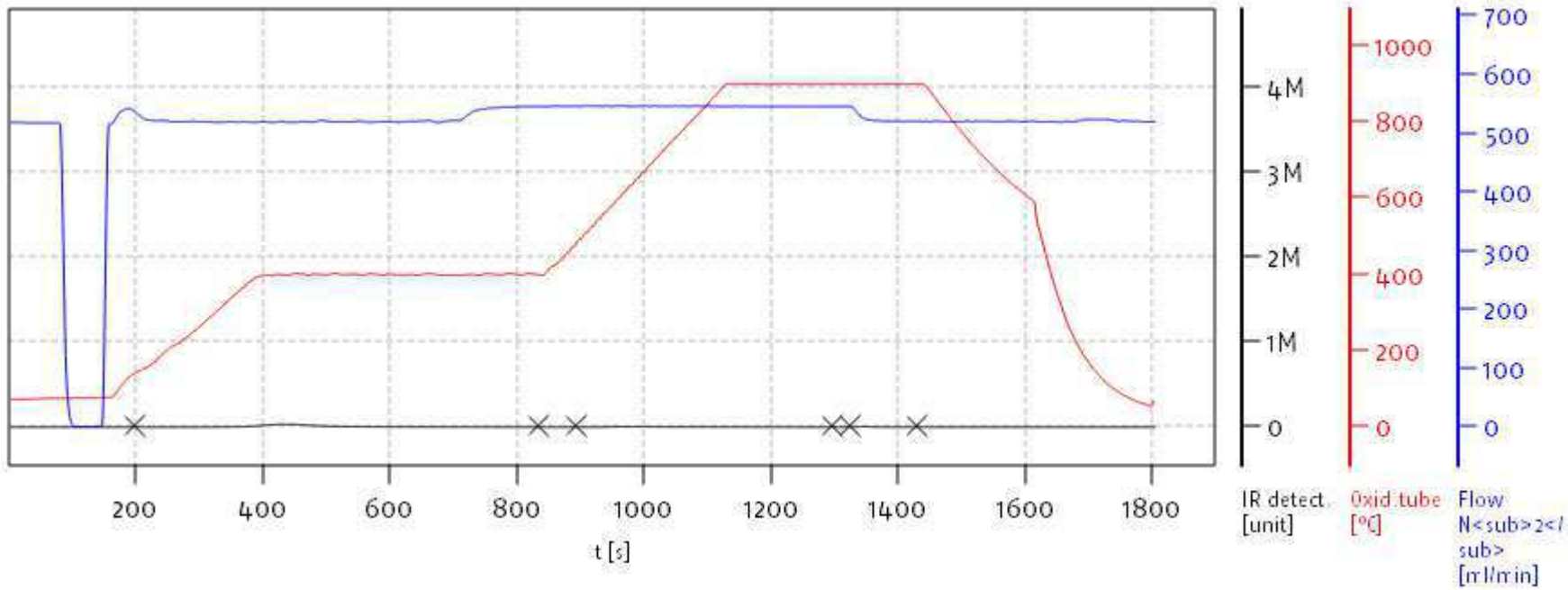
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
201	23	22L0199-13	511.70		CARBON	12/20/2022 5:25 PM	bl	0.034	148 167	0.036	0.000	5 907	30 729	0.034	0.001	0.9312	1.0000



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Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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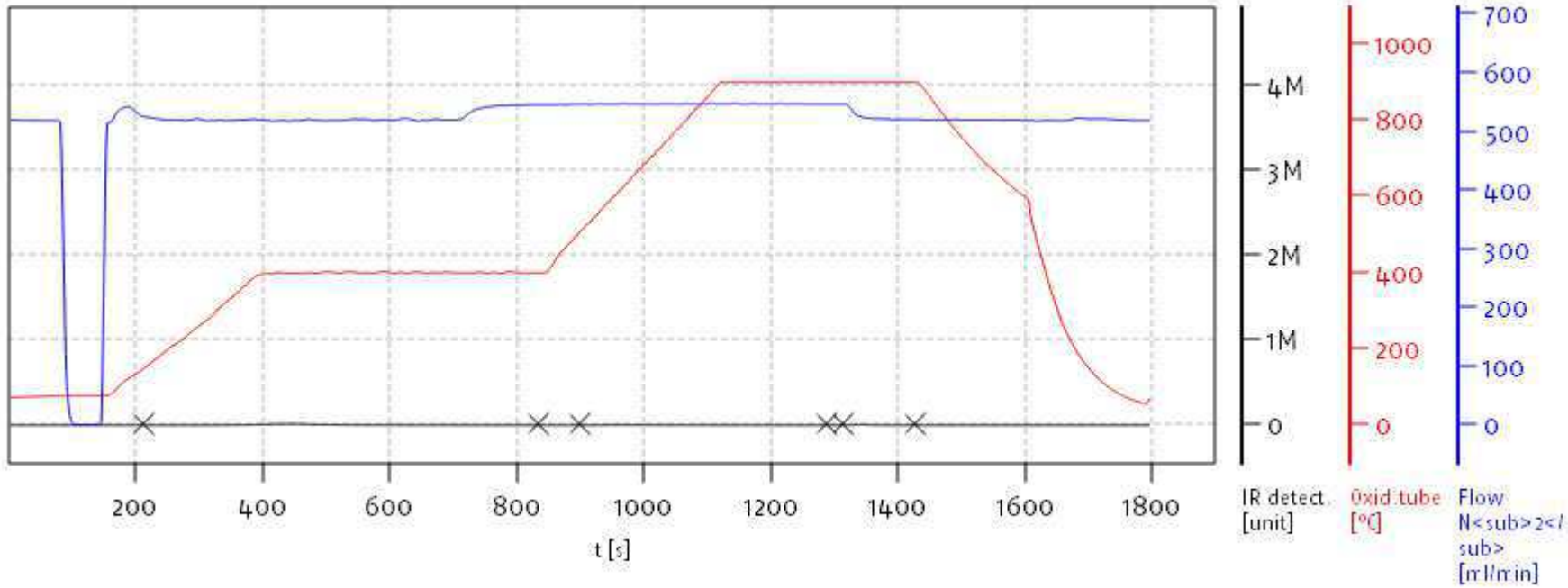
Document: 121622 DOE from: 12/21/2022 7:31 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
202	24	22L0199-14	545.70		CARBON	12/20/2022 5:55 PM	bl	0.011	68 240	0.011	0.000	7 299	14 713	0.011	0.000	0.9312	1.0000



Name:

Access: soliTOC superuser

Date: Wed Dec 21 09:58:21 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
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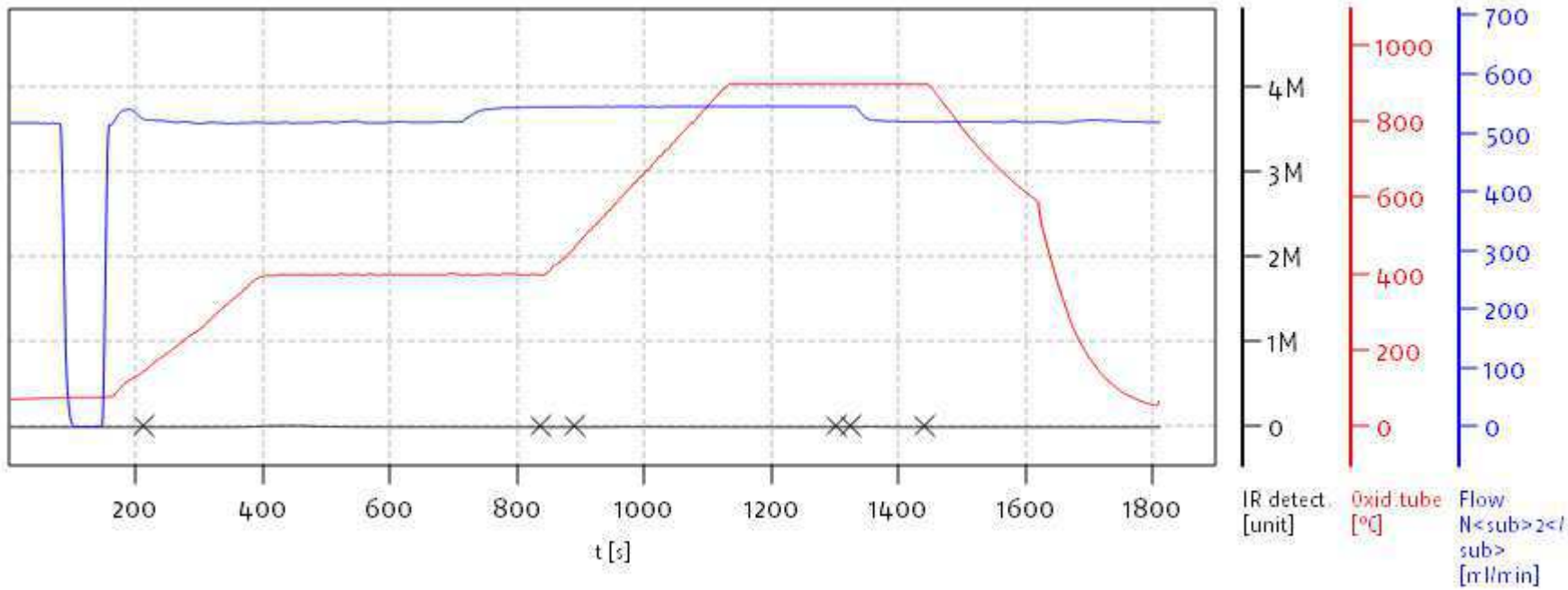
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
203	25	22L0199-15	561.20		CARBON	12/20/2022 6:26 PM	bl	0.011	69 068	0.011	0.000	6 061	16 717	0.011	0.000	0.9312	1.0000



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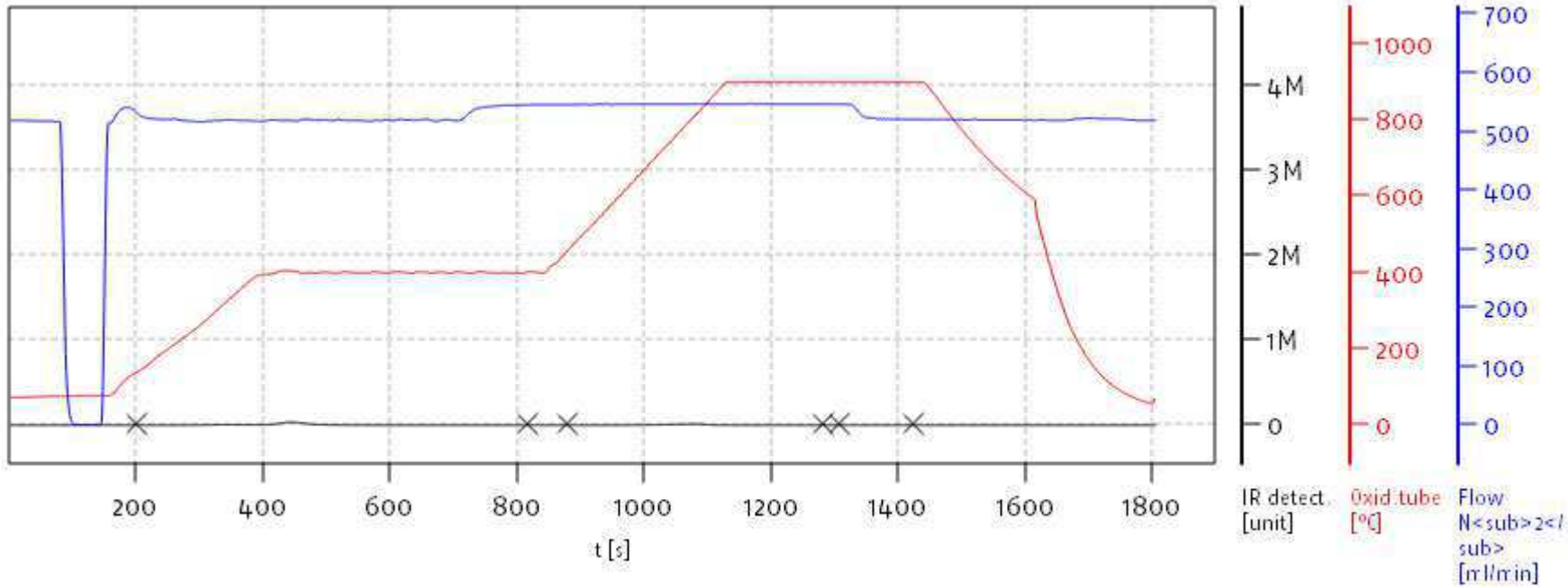
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
204	26	BKL0464-MRL1	507.50		CARBON	12/20/2022 6:57 PM	bl,C2u	0.017	87 864	0.020	0.000	287	36 173	0.017	0.003	0.9312	1.0000



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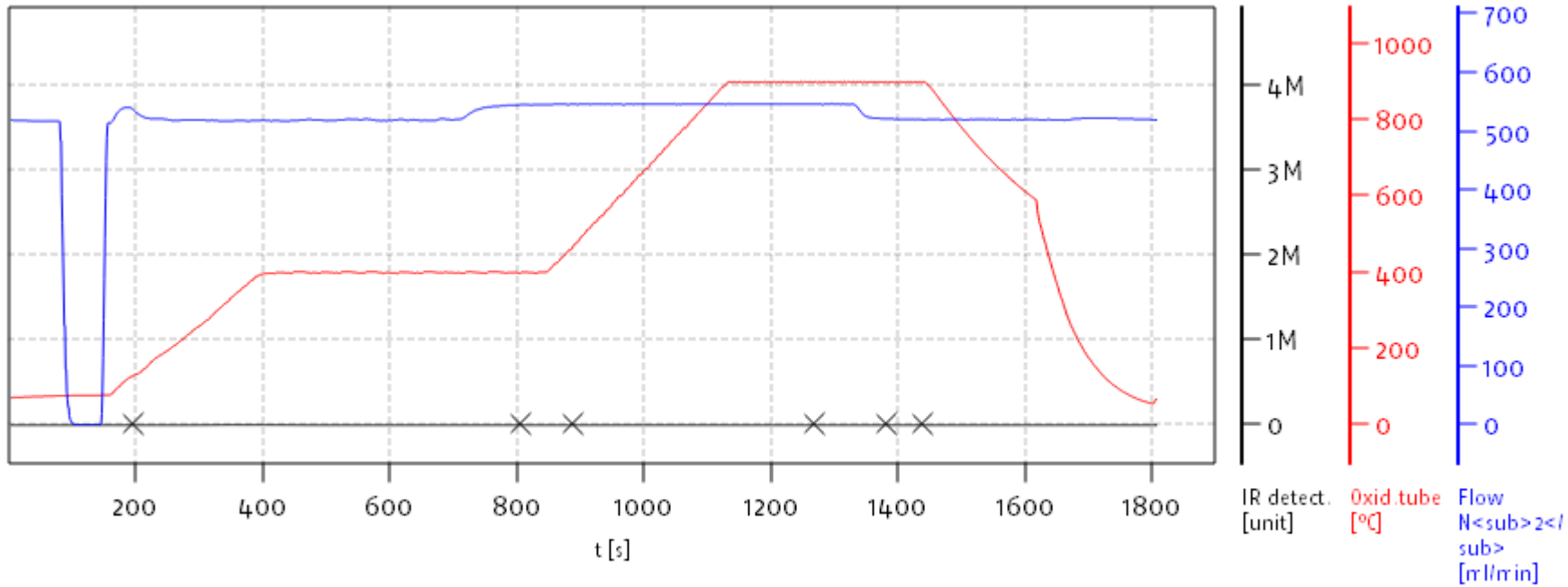
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
205	27	BKL0464-BLK1	507.10		CARBON	12/20/2022 7:27 PM	bl,C3u,C2u	0.000	15 420	0.000	0.000	102	1 881	0.000	0.000	0.9312	1.0000



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Balance: BAL3
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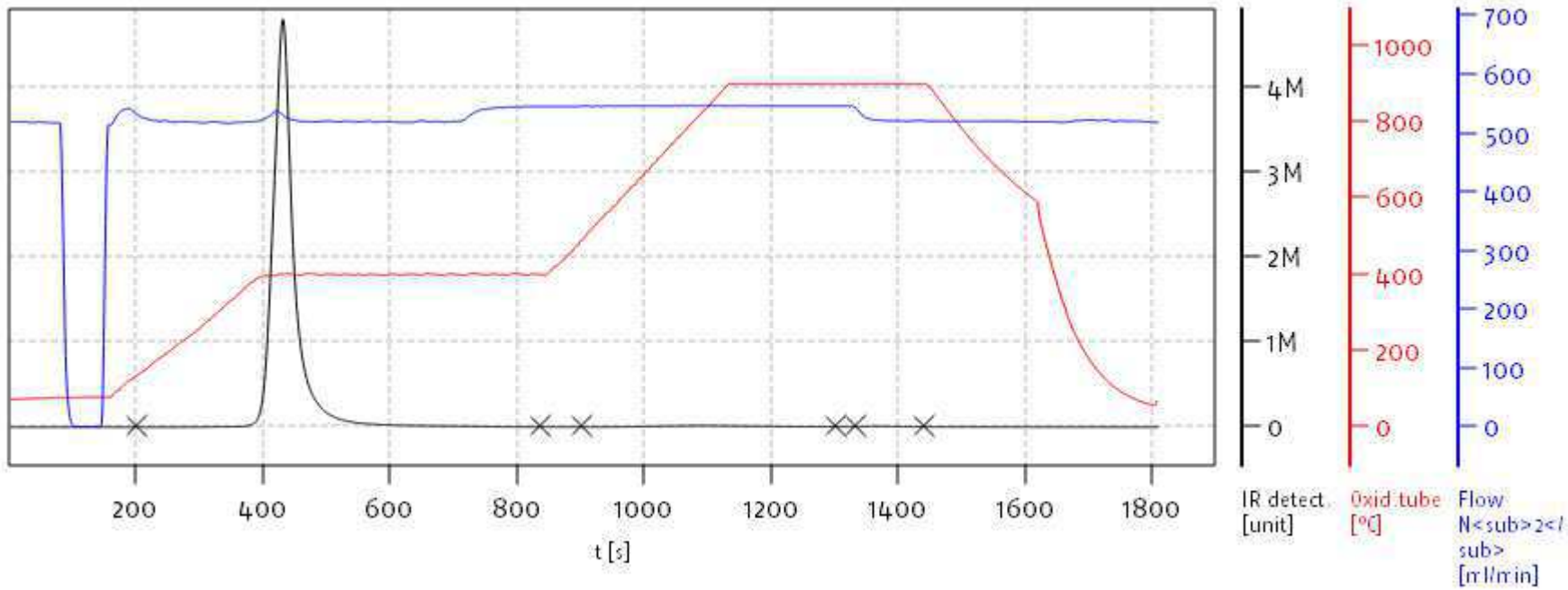
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
206	28	BKL0464-BS1	22.50		CARBON	12/20/2022 7:58 PM	bl	43.899	6 878 350	44.623	0.001	26 682	131 759	43.898	0.724	0.9312	1.0000



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Balance: BAL3
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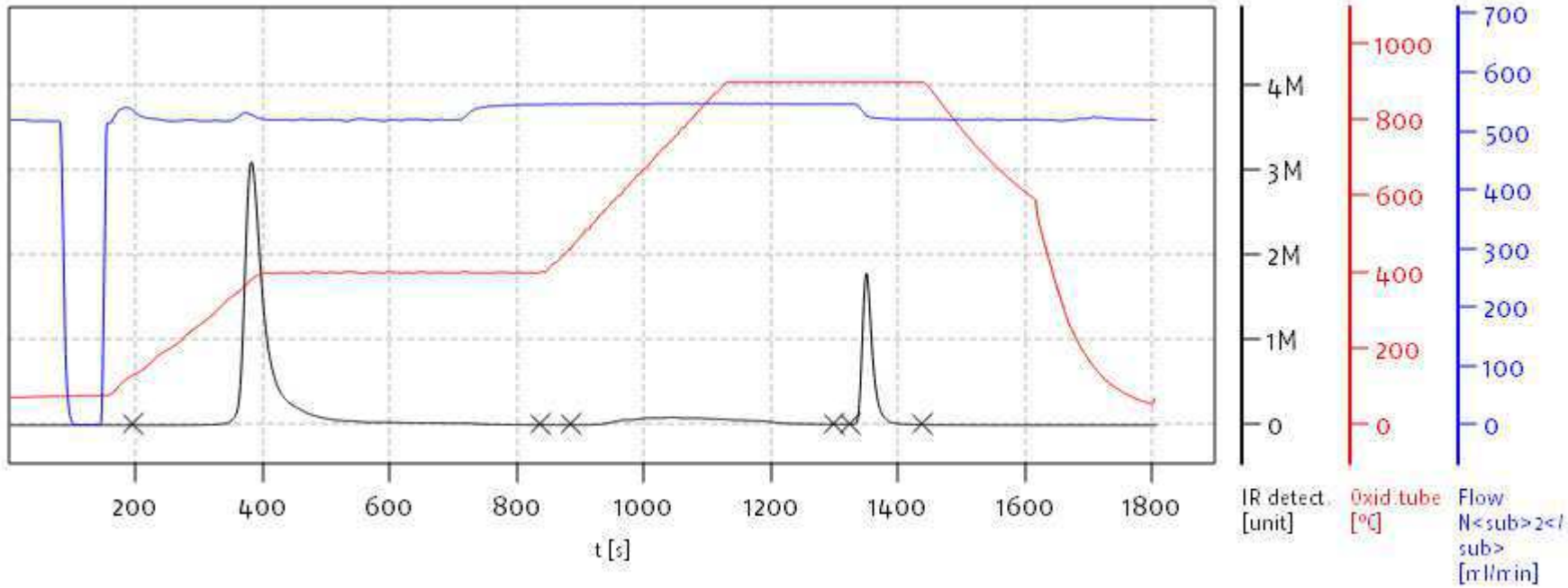
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
207	29	BKL0464-SRM1	290.00		CARBON	12/20/2022 8:28 PM	bl	2.958	4 645 980	3.339	0.662	1 266 560	739 070	2.296	0.380	0.9312	1.0000



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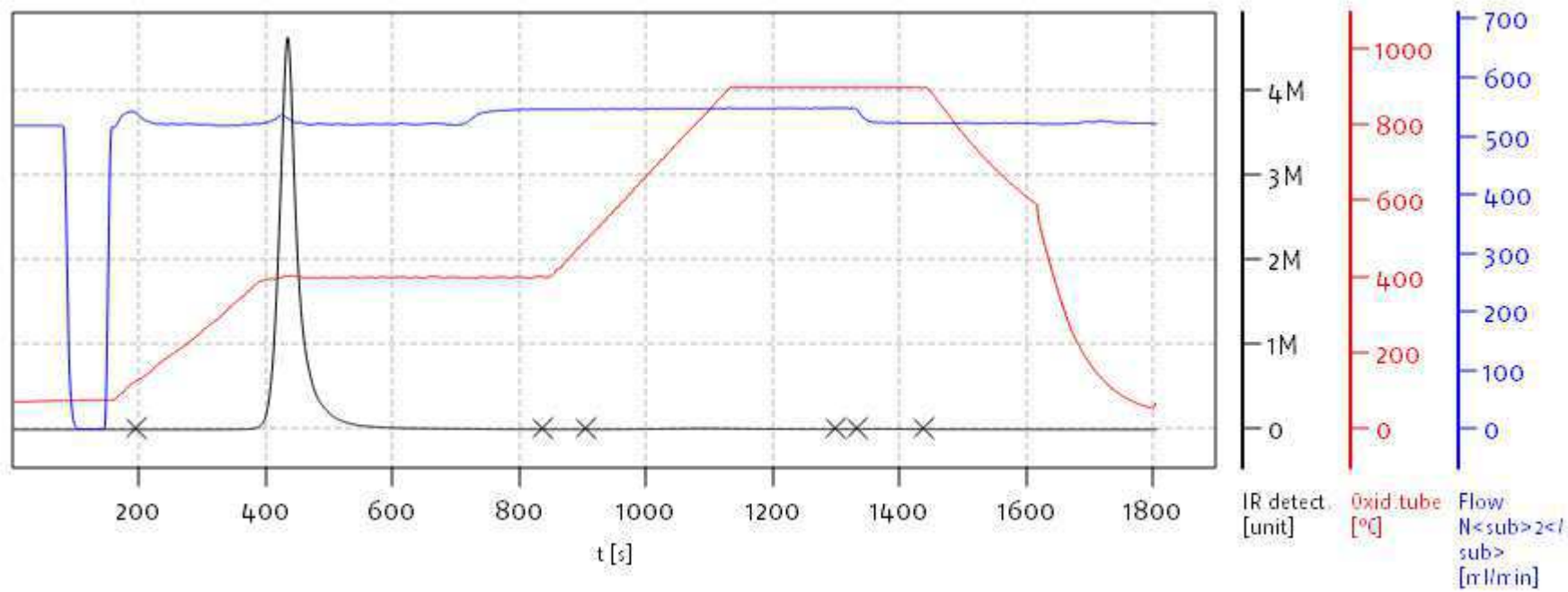
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
208	30	SKL0217-CCVH	20.50		CARBON	12/20/2022 8:59 PM	bl	43.865	6 264 510	44.389	0.000	22 052	95 947	43.865	0.524	0.9312	1.0000



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Balance: BAL3
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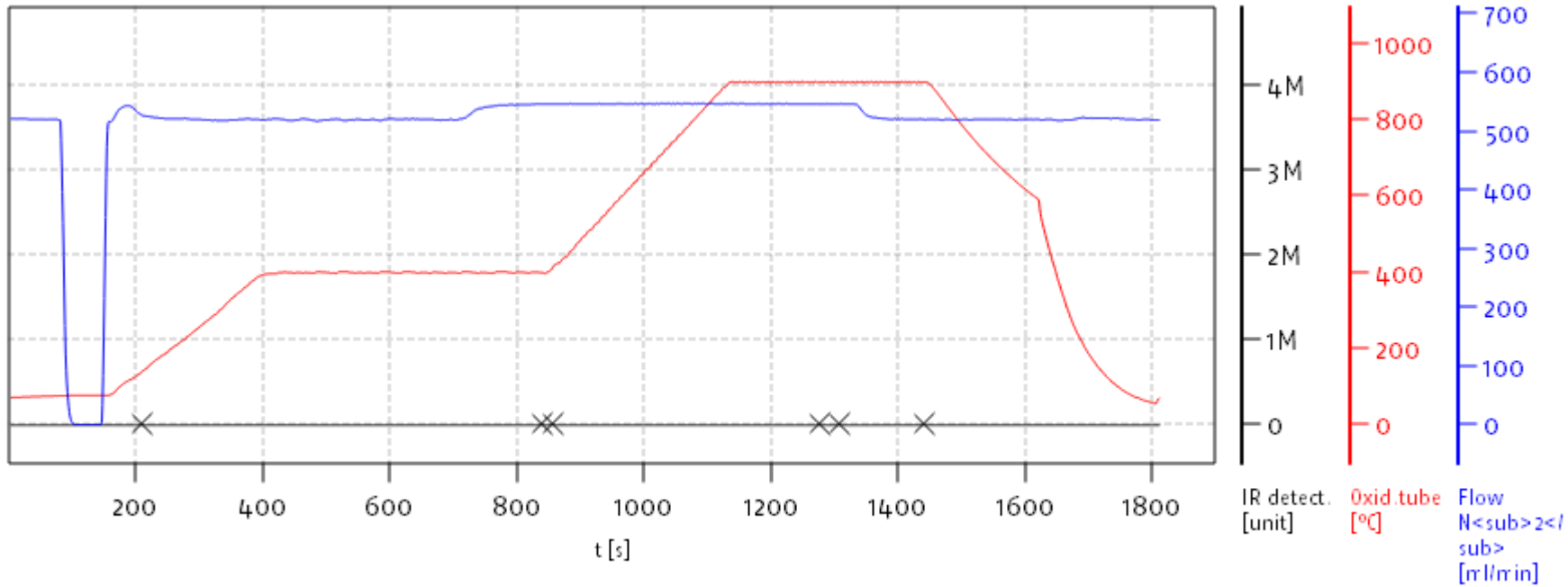
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
209	31	SKL0217-CCBH	517.20		CARBON	12/20/2022 9:29 PM	bl,C2u	0.000	3 226	0.000	0.000	549	0	0.000	0.000	0.9312	1.0000



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EXCELLENCE IN ELEMENTS

Document: 121622 DOE from: 12/21/2022 7:31 AM

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0276
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0276-ICV1	CubeData_12272022@1519-019	NA	12/21/22 12:29
Initial Cal Blank	SKL0276-ICB1	CubeData_12272022@1519-025	NA	12/21/22 12:59
LDW22-IT789J	22L0199-16	CubeData_12272022@1519-031	Solid	12/21/22 13:29
LDW22-IT789J	BKL0464-DUP1	CubeData_12272022@1519-036	Solid	12/21/22 14:00
LDW22-IT789J	BKL0464-MS1	CubeData_12272022@1519-037	Solid	12/21/22 14:30
LDW22-IT789K	22L0199-17	CubeData_12272022@1519-042	Solid	12/21/22 15:00
LDW22-IT789L	22L0199-18	CubeData_12272022@1519-048	Solid	12/21/22 15:30
LDW22-IT790I	22L0199-19	CubeData_12272022@1519-053	Solid	12/21/22 16:01
LDW22-IT790J	22L0199-20	CubeData_12272022@1519-058	Solid	12/21/22 16:31
LDW22-IT790K	22L0199-21	CubeData_12272022@1519-064	Solid	12/21/22 17:01
LDW22-IT790L	22L0199-22	CubeData_12272022@1519-072	Solid	12/21/22 17:32
LDW22-IT790M	22L0199-23	CubeData_12272022@1519-079	Solid	12/21/22 18:02
Calibration Check	SKL0276-CCV1	CubeData_12272022@1519-084	NA	12/21/22 18:32
Calibration Blank	SKL0276-CCB1	CubeData_12272022@1519-092	NA	12/21/22 19:03
LDW22-SC802A	22L0199-24	CubeData_12272022@1519-097	Solid	12/21/22 19:33
LDW22-SC802B	22L0199-25	CubeData_12272022@1519-103	Solid	12/21/22 20:03
LDW22-SC802C	22L0199-26	CubeData_12272022@1519-111	Solid	12/21/22 20:33
LDW22-SC802D	22L0199-27	CubeData_12272022@1519-116	Solid	12/21/22 21:04
LDW22-SC802E	22L0199-28	CubeData_12272022@1519-124	Solid	12/21/22 21:34
LDW22-SC802F	22L0199-29	CubeData_12272022@1519-128	Solid	12/21/22 22:04
LDW22-SC802G	22L0199-30	CubeData_12272022@1519-135	Solid	12/21/22 22:35
LDW22-SC802H	22L0199-31	CubeData_12272022@1519-137	Solid	12/21/22 23:05
LDW22-SC802I	22L0199-32	CubeData_12272022@1519-138	Solid	12/21/22 23:35
LDW22-SC802J	22L0199-33	CubeData_12272022@1519-139	Solid	12/22/22 00:05
Calibration Check	SKL0276-CCV2	CubeData_12272022@1519-140	NA	12/22/22 00:36
Calibration Blank	SKL0276-CCB2	CubeData_12272022@1519-141	NA	12/22/22 01:06
LDW22-SC802K	22L0199-34	CubeData_12272022@1519-142	Solid	12/22/22 01:36
LDW22-SC802C-FD	22L0199-35	CubeData_12272022@1519-143	Solid	12/22/22 02:07
MRL Check	BKL0471-MRL1	CubeData_12272022@1519-144	Solid	12/22/22 02:37

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0276

SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Blank	BKL0471-BLK1	CubeData_12272022@1519-145	Solid	12/22/22 03:08
LCS	BKL0471-BS1	CubeData_12272022@1519-146	Solid	12/22/22 03:38
Reference	BKL0471-SRM1	CubeData_12272022@1519-147	Solid	12/22/22 04:08
LDW22-SC787A	22L0199-36	CubeData_12272022@1519-148	Solid	12/22/22 04:39
LDW22-SC787A	BKL0471-DUP1	CubeData_12272022@1519-149	Solid	12/22/22 05:09
LDW22-SC787A	BKL0471-MS1	CubeData_12272022@1519-150	Solid	12/22/22 05:40
LDW22-SC787B	22L0199-37	CubeData_12272022@1519-151	Solid	12/22/22 06:10
Calibration Check	SKL0276-CCV3	CubeData_12272022@1519-152	NA	12/22/22 06:40
Calibration Blank	SKL0276-CCB3	CubeData_12272022@1519-153	NA	12/22/22 07:11
LDW22-SC787C	22L0199-38	CubeData_12272022@1519-154	Solid	12/22/22 07:41
LDW22-SC787D	22L0199-39	CubeData_12272022@1519-155	Solid	12/22/22 08:11
LDW22-SC787E	22L0199-40	CubeData_12272022@1519-156	Solid	12/22/22 08:42
LDW22-SC787F	22L0199-41	CubeData_12272022@1519-157	Solid	12/22/22 09:12
LDW22-SC787G	22L0199-42	CubeData_12272022@1519-158	Solid	12/22/22 09:43
LDW22-SC787H	22L0199-43	CubeData_12272022@1519-159	Solid	12/22/22 10:13
LDW22-SC787I	22L0199-44	CubeData_12272022@1519-160	Solid	12/22/22 10:44
Calibration Check	SKL0276-CCV4	CubeData_12272022@1519-163	NA	12/22/22 12:45
Calibration Blank	SKL0276-CCB4	CubeData_12272022@1519-164	NA	12/22/22 13:16
LDW22-SC787J	22L0199-45	CubeData_12272022@1519-165	Solid	12/22/22 13:47
LDW22-SC787K	22L0199-46	CubeData_12272022@1519-166	Solid	12/22/22 14:17
LDW22-SC787L	22L0199-47	CubeData_12272022@1519-167	Solid	12/22/22 14:47
LDW22-SC761A	22L0199-48	CubeData_12272022@1519-168	Solid	12/22/22 15:17
LDW22-SC761B	22L0199-49	CubeData_12272022@1519-169	Solid	12/22/22 15:48
LDW22-SC761C	22L0199-50	CubeData_12272022@1519-170	Solid	12/22/22 16:18
LDW22-SC761D	22L0199-51	CubeData_12272022@1519-171	Solid	12/22/22 16:49
LDW22-SC761D-FD	22L0199-52	CubeData_12272022@1519-172	Solid	12/22/22 17:19
LDW22-SC761E	22L0199-53	CubeData_12272022@1519-173	Solid	12/22/22 17:49
LDW22-SC761F	22L0199-54	CubeData_12272022@1519-174	Solid	12/22/22 18:20
Calibration Check	SKL0276-CCV5	CubeData_12272022@1519-175	NA	12/22/22 18:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0276

SDG: 22L0199
Project: AOC4 UR Phase 3
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SKL0276-CCB5	CubeData_12272022@1519-176	NA	12/22/22 19:20
MRL Check	BKL0501-MRL1	CubeData_12272022@1519-177	Solid	12/22/22 19:51
Blank	BKL0501-BLK1	CubeData_12272022@1519-178	Solid	12/22/22 20:21
LCS	BKL0501-BS1	CubeData_12272022@1519-179	Solid	12/22/22 20:52
Reference	BKL0501-SRM1	CubeData_12272022@1519-180	Solid	12/22/22 21:22
LDW22-SC761G	22L0199-55	CubeData_12272022@1519-181	Solid	12/22/22 21:53
LDW22-SC761G	BKL0501-DUP1	CubeData_12272022@1519-182	Solid	12/22/22 22:23
LDW22-SC761G	BKL0501-MS1	CubeData_12272022@1519-183	Solid	12/22/22 22:54
LDW22-SC761H	22L0199-56	CubeData_12272022@1519-184	Solid	12/22/22 23:24
LDW22-SC761I	22L0199-57	CubeData_12272022@1519-185	Solid	12/22/22 23:55
LDW22-SC761J	22L0199-58	CubeData_12272022@1519-186	Solid	12/23/22 00:25
Calibration Check	SKL0276-CCV6	CubeData_12272022@1519-187	NA	12/23/22 00:56
Calibration Blank	SKL0276-CCB6	CubeData_12272022@1519-188	NA	12/23/22 01:26
LDW22-SC761K	22L0199-59	CubeData_12272022@1519-189	Solid	12/23/22 01:56
LDW22-SC761L	22L0199-60	CubeData_12272022@1519-190	Solid	12/23/22 02:27
LDW22-SC758B	22L0199-61	CubeData_12272022@1519-191	Solid	12/23/22 02:57
LDW22-SC758C	22L0199-62	CubeData_12272022@1519-192	Solid	12/23/22 03:27
LDW22-SC758D	22L0199-63	CubeData_12272022@1519-193	Solid	12/23/22 03:58
LDW22-SC758E	22L0199-64	CubeData_12272022@1519-194	Solid	12/23/22 04:28
LDW22-SC758F	22L0199-65	CubeData_12272022@1519-195	Solid	12/23/22 04:59
LDW22-SC758G	22L0199-66	CubeData_12272022@1519-196	Solid	12/23/22 05:30
LDW22-SC758H	22L0199-67	CubeData_12272022@1519-197	Solid	12/23/22 06:00
LDW22-SC758I	22L0199-68	CubeData_12272022@1519-198	Solid	12/23/22 06:31
Calibration Check	SKL0276-CCV7	CubeData_12272022@1519-199	NA	12/23/22 07:01
Calibration Blank	SKL0276-CCB7	CubeData_12272022@1519-200	NA	12/23/22 07:31
LDW22-SC758J	22L0199-69	CubeData_12272022@1519-001	Solid	12/23/22 08:02
LDW22-SC758K	22L0199-70	CubeData_12272022@1519-005	Solid	12/23/22 08:32
Calibration Check	SKL0276-CCV8	CubeData_12272022@1519-052	NA	12/23/22 13:05
Calibration Blank	SKL0276-CCB8	CubeData_12272022@1519-057	NA	12/23/22 13:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

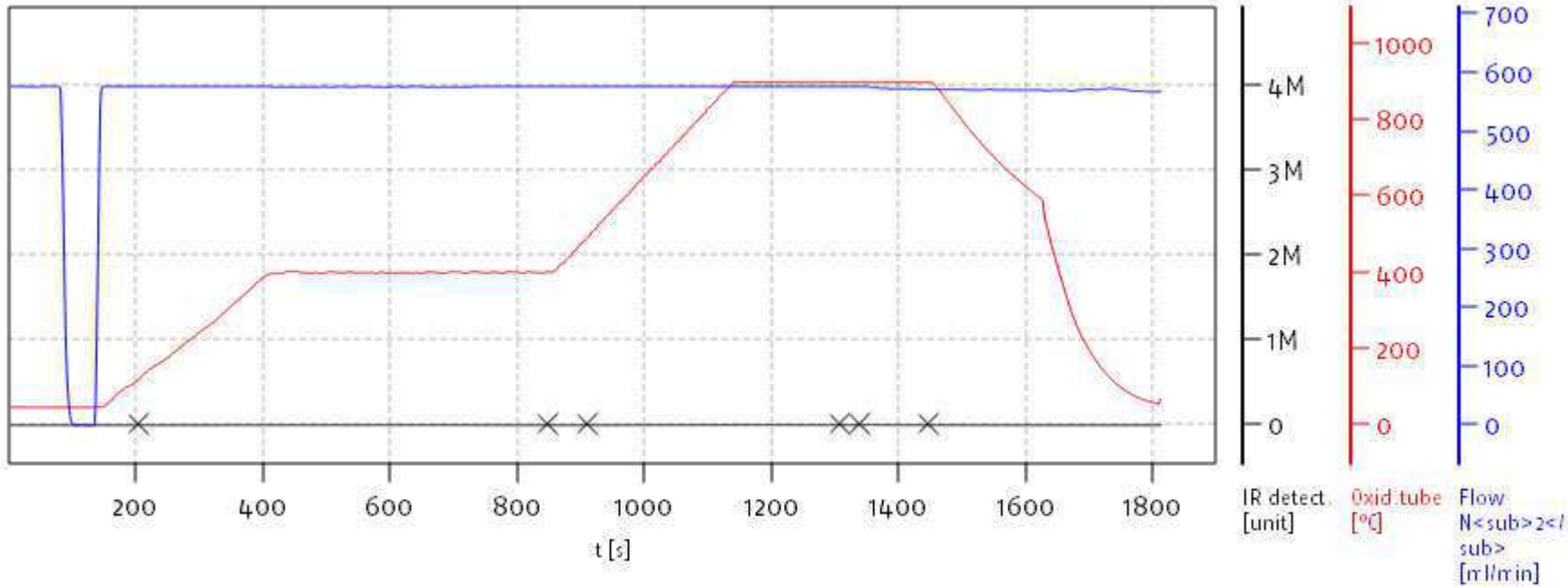
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0276	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SKL0276-CCV9	CubeData_12272022@1519-129	NA	12/23/22 19:09
Calibration Blank	SKL0276-CCB9	CubeData_12272022@1519-136	NA	12/23/22 19:39

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	12/21/2022 10:58 AM	bl	0.000	24 682	0.000	0.000	8 146	29 401	0.000	0.000	1.0000	1.0000



Name:

Access: soliTOC superuser

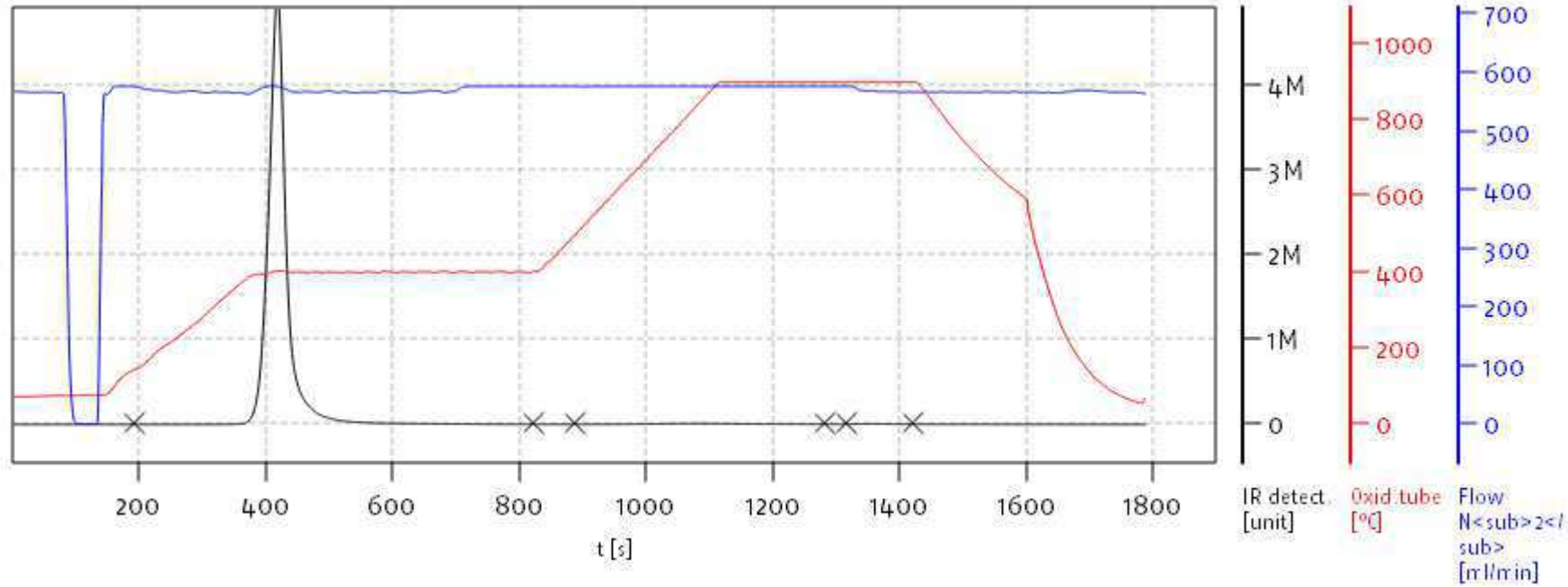
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	21.20		CARBON	12/21/2022 11:28 AM	bl	44.446	6 225 235	44.832	0.000	19 351	79 406	44.446	0.386	0.9819	1.0000



Name:

Access: soliTOC superuser

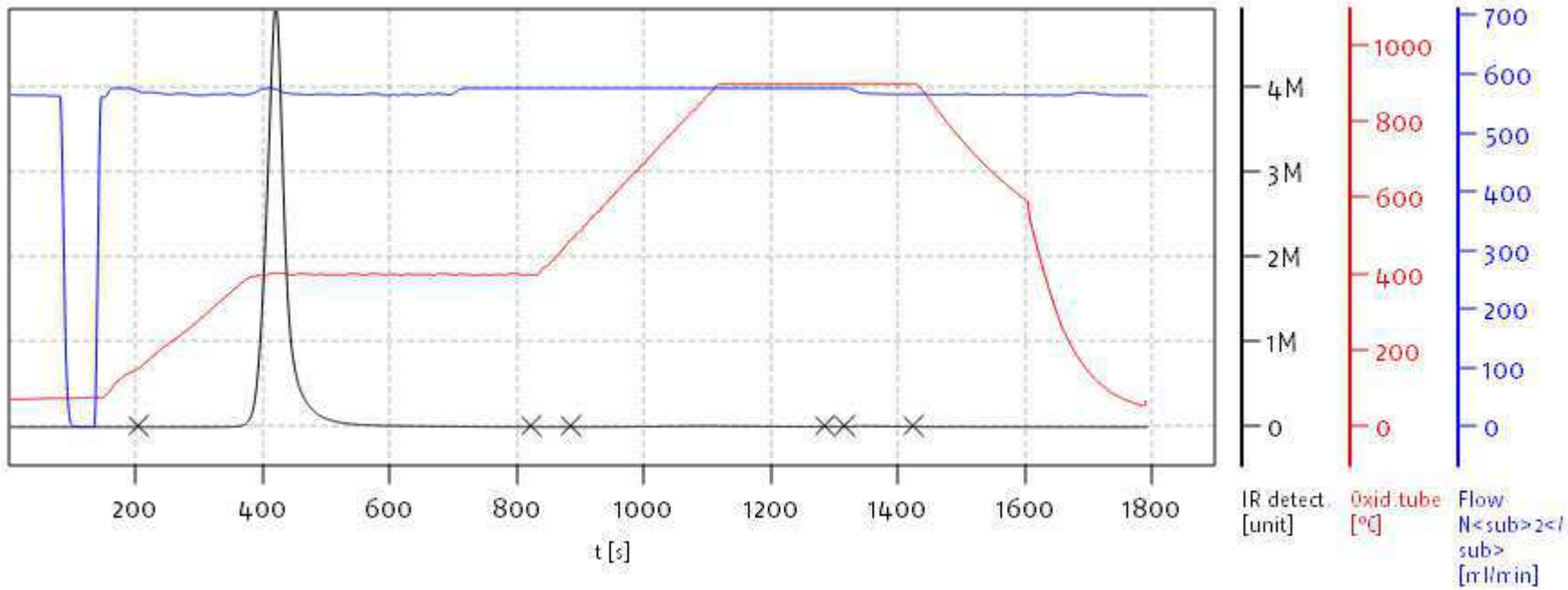
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	22.70		CARBON	12/21/2022 11:59 AM	bl	44.458	6 638 182	44.979	0.012	28 283	102 975	44.446	0.521	0.9857	1.0000



Name:

Access: soliTOC superuser

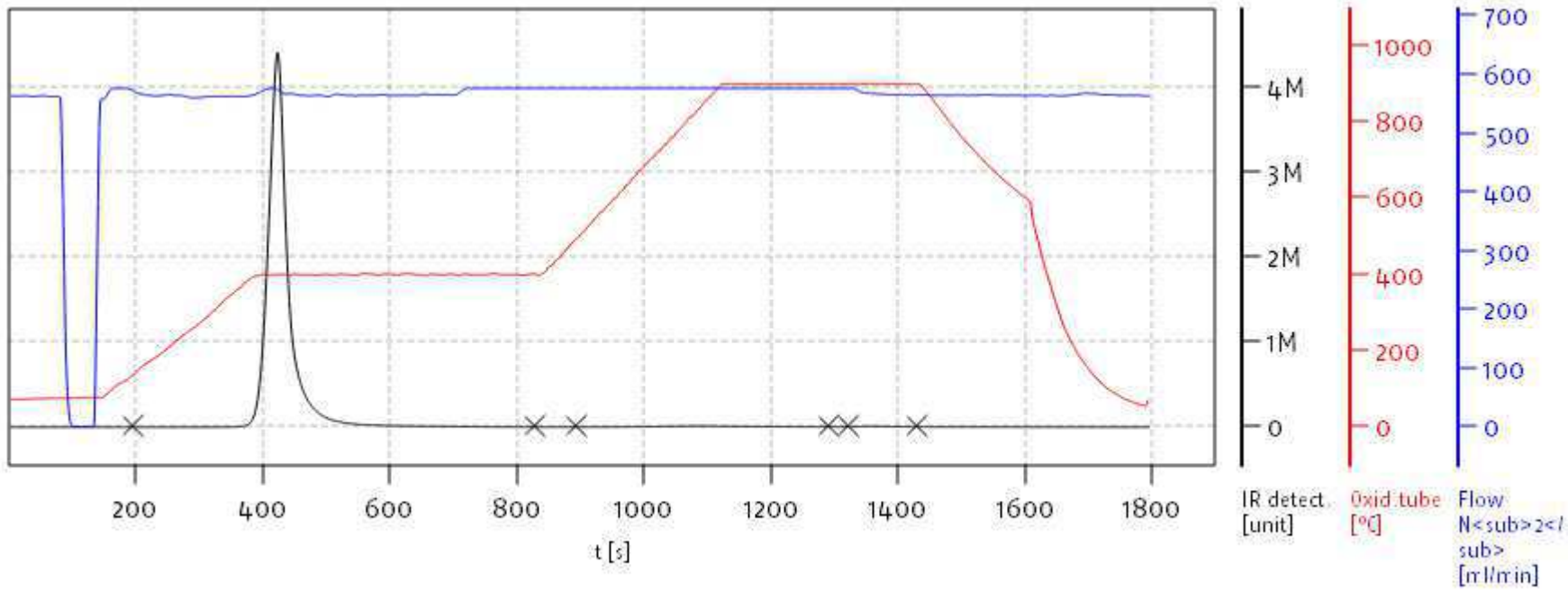
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SKL0276-ICV1	20.60		CARBON	12/21/2022 12:29 PM	bl	44.301	6 018 628	44.793	0.000	25 888	92 006	44.301	0.492	0.9838	1.0000



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Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

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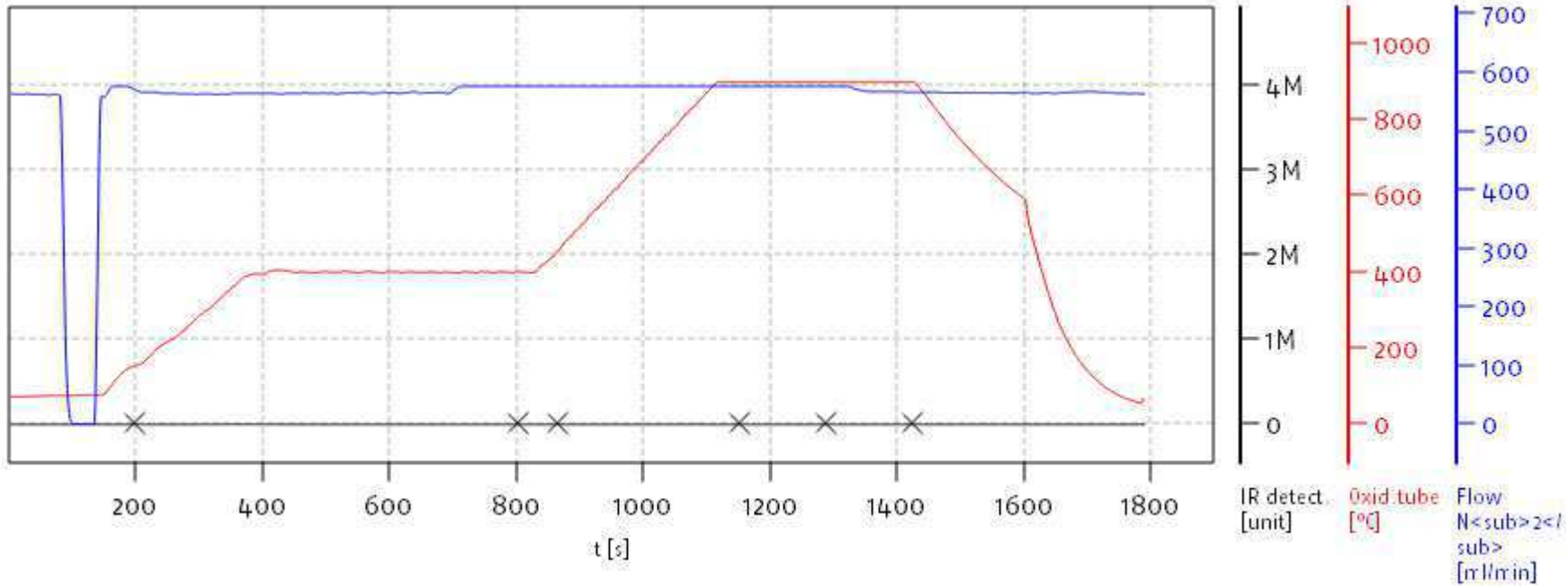
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SKL0276-ICB1	508.30		CARBON	12/21/2022 12:59 PM	bl,C3u,C2u	0.000	6 594	0.000	0.000	1 028	1 604	0.000	0.000	0.9838	1.0000



Name:

Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

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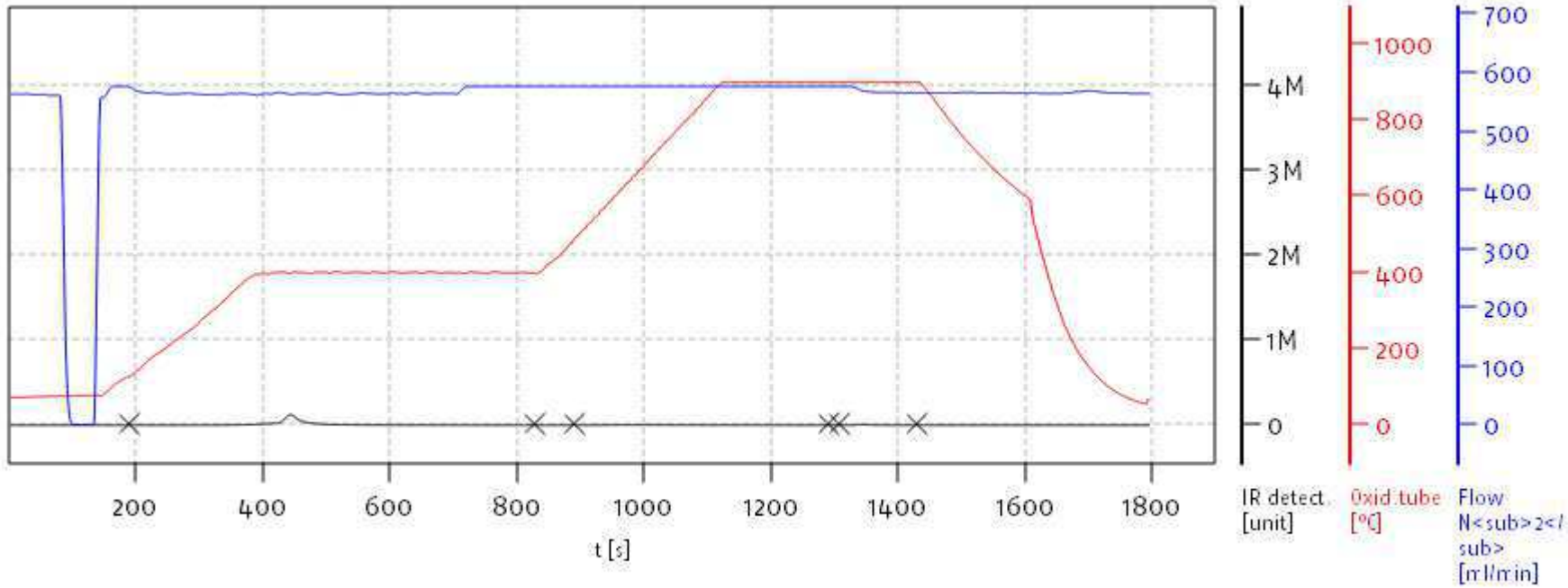
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	22L0199-16	516.00		CARBON	12/21/2022 1:29 PM	bl	0.051	198 660	0.051	0.000	7 779	20 550	0.051	0.000	0.9838	1.0000



Name:

Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

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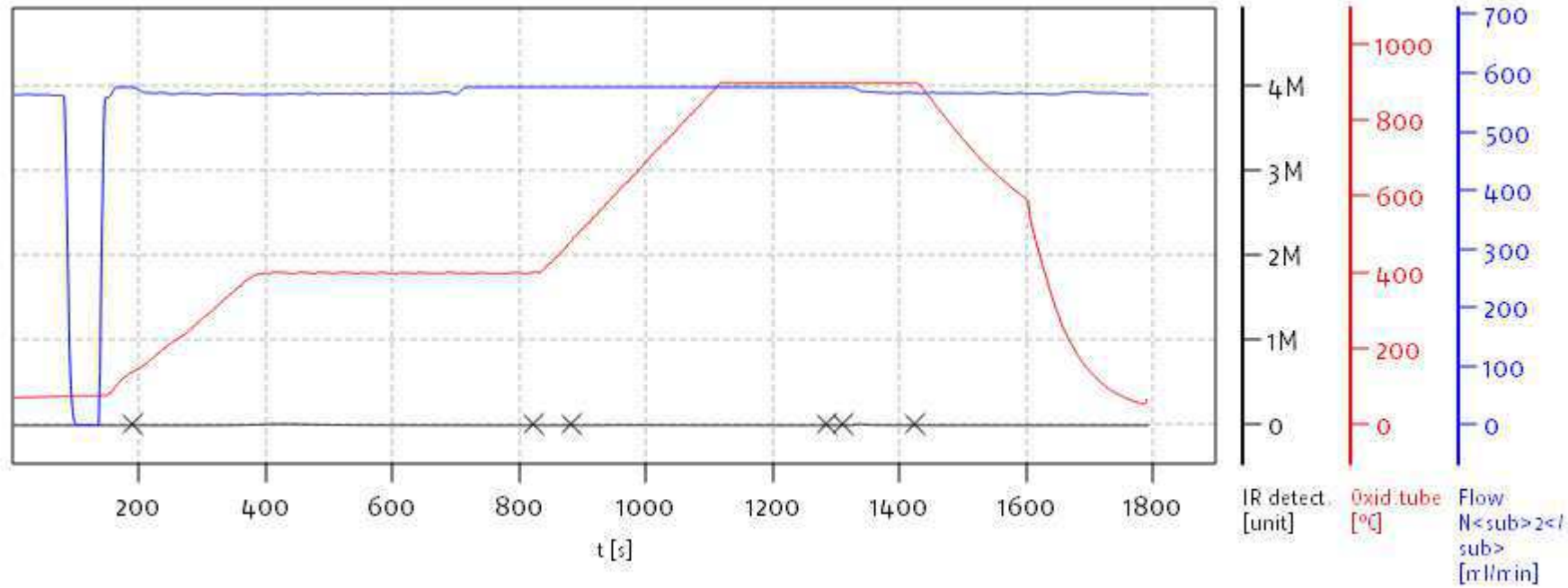
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BKL0464-DUP1	560.30		CARBON	12/21/2022 2:00 PM	bl	0.014	76 438	0.014	0.000	12 314	17 351	0.014	0.000	0.9838	1.0000



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Date: Sat Dec 24 09:27:56 2022

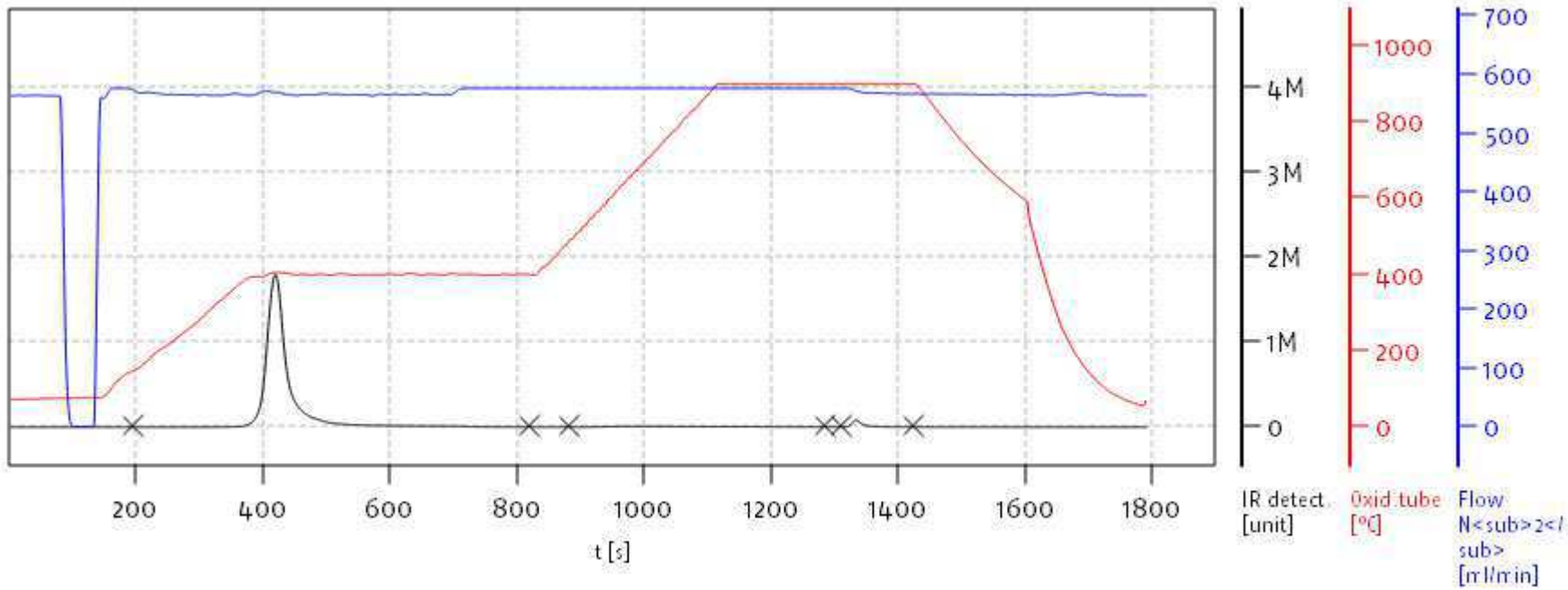
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BKL0464-MS1	506.80	0.0088	CARBON	12/21/2022 2:30 PM	bl	0.775	2 567 684	0.791	0.011	62 803	80 533	0.764	0.016	0.9838	1.0000



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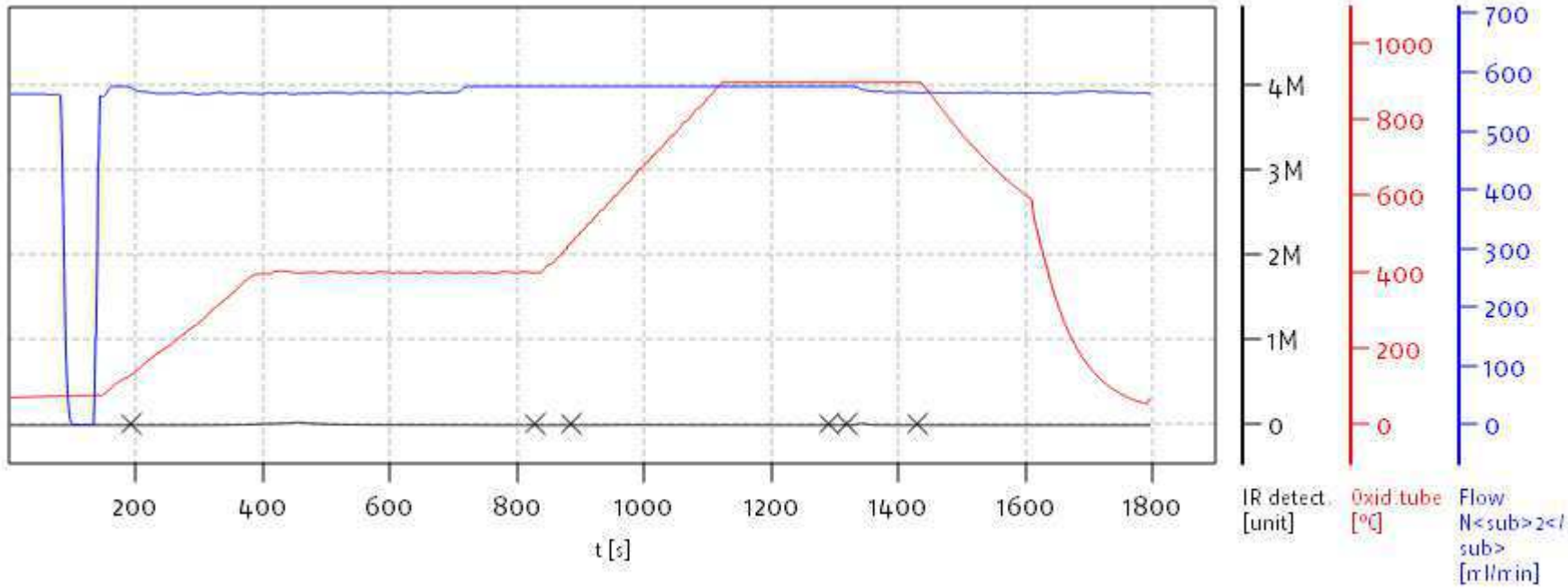
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	22L0199-17	501.30		CARBON	12/21/2022 3:00 PM	bl	0.031	129 549	0.031	0.000	13 366	17 344	0.031	0.000	0.9838	1.0000



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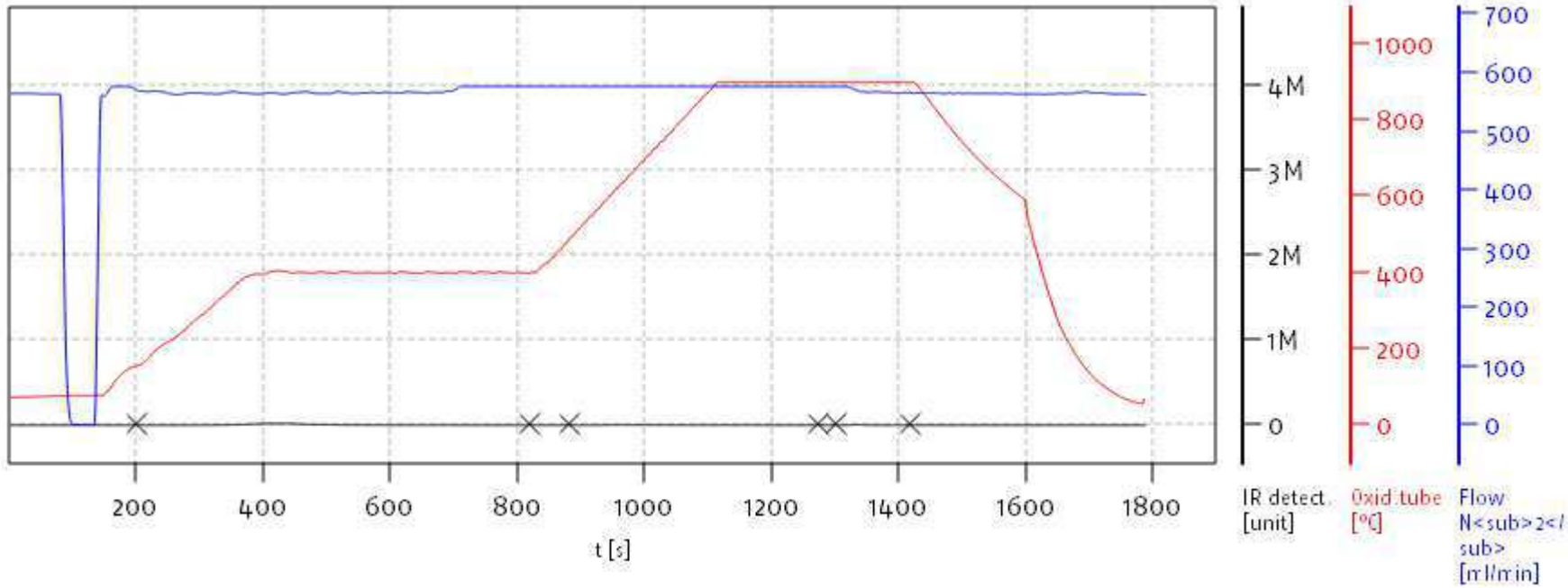
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	22L0199-18	572.10		CARBON	12/21/2022 3:30 PM	bl	0.017	90 347	0.017	0.000	5 283	17 424	0.017	0.000	0.9838	1.0000



Name:

Access: soliTOC superuser

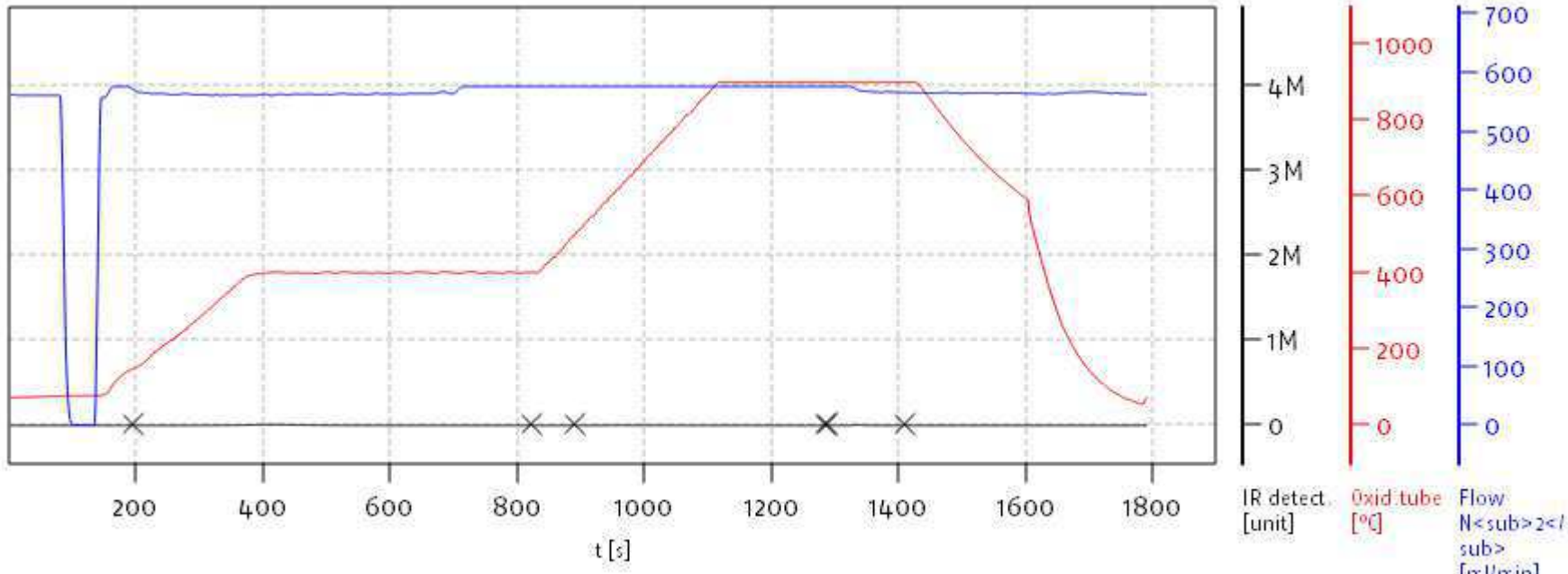
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	22L0199-19	512.10		CARBON	12/21/2022 4:01 PM	bl	0.006	47 291	0.006	0.000	4 828	9 659	0.006	0.000	0.9838	1.0000



Name:

Access: soliTOC superuser

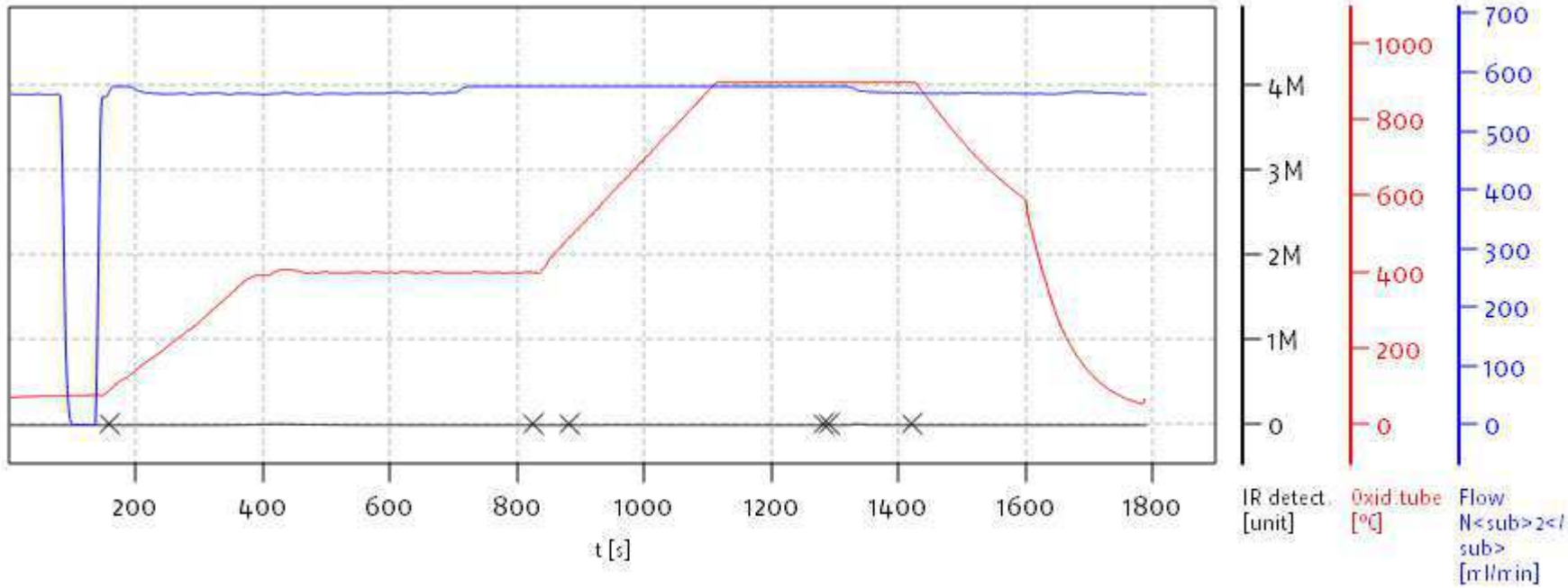
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	22L0199-20	642.40		CARBON	12/21/2022 4:31 PM	bl	0.006	49 859	0.006	0.000	10 087	12 184	0.006	0.000	0.9838	1.0000



Name:

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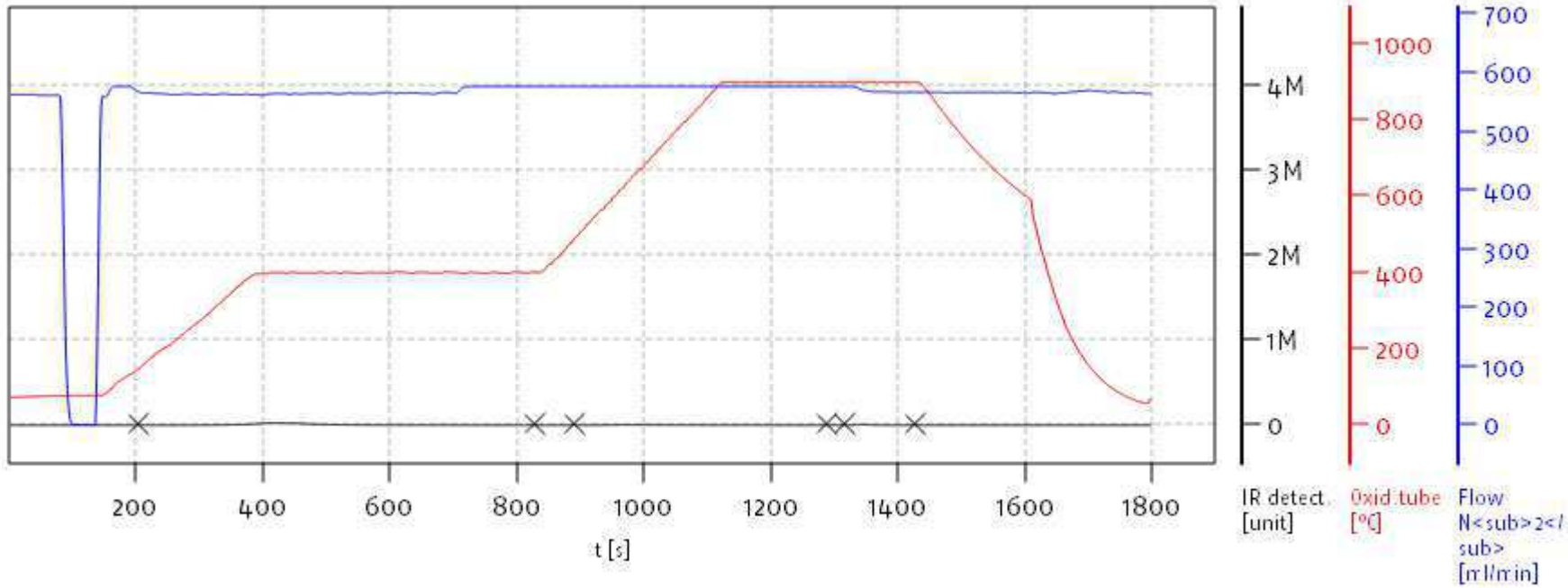
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	22L0199-21	545.00		CARBON	12/21/2022 5:01 PM	bl	0.025	114 887	0.025	0.000	7 022	20 342	0.025	0.000	0.9838	1.0000



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Access: soliTOC superuser

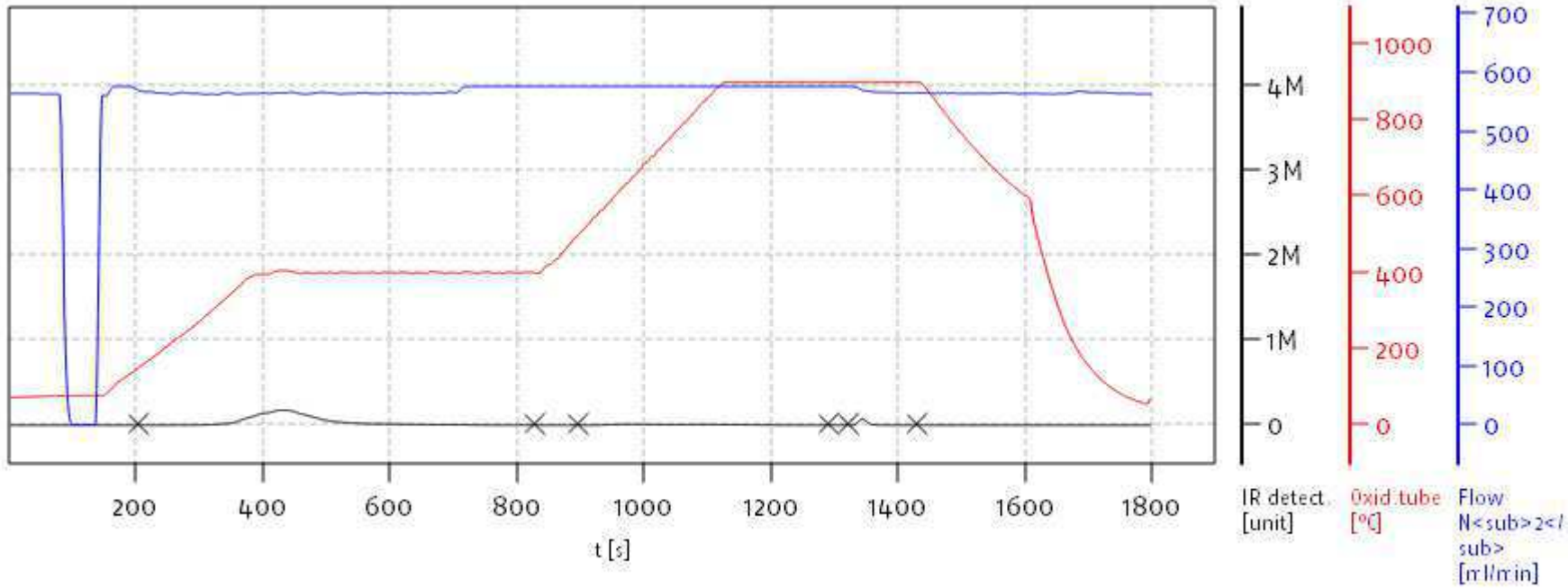
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	22L0199-22	525.70		CARBON	12/21/2022 5:32 PM	bl	0.232	810 668	0.246	0.005	43 970	72 616	0.227	0.014	0.9838	1.0000



Name:

Access: soliTOC superuser

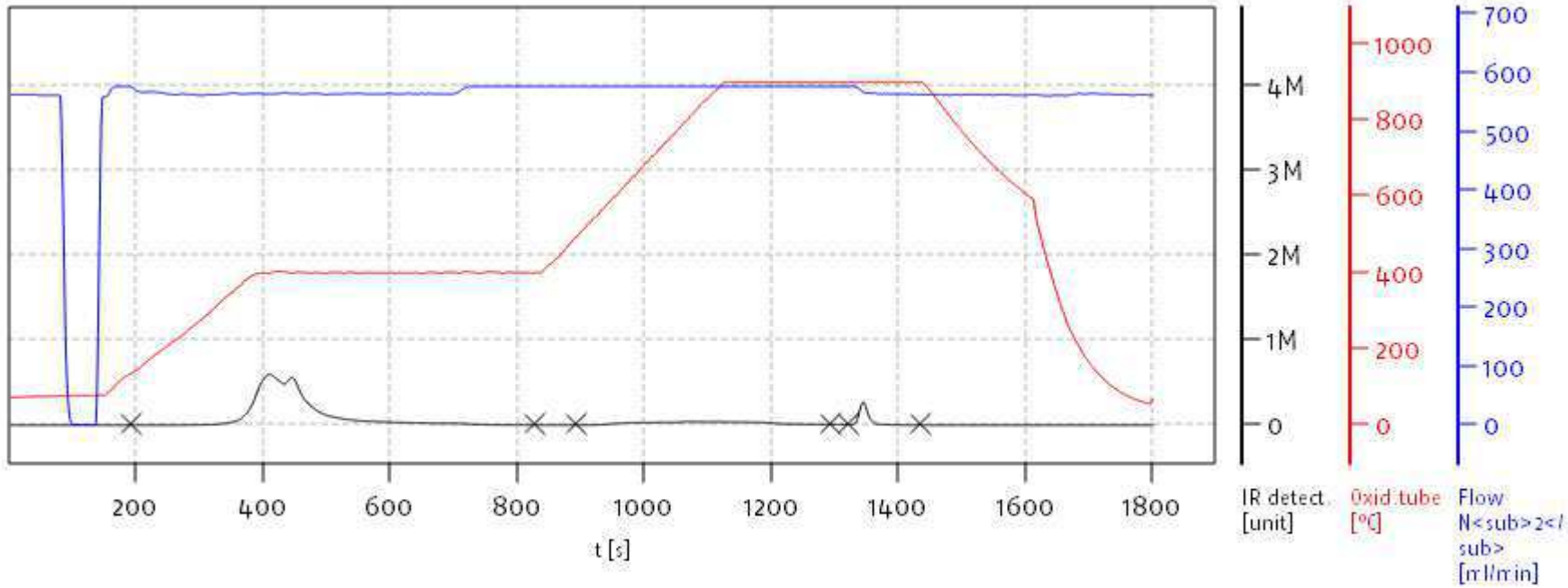
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	22L0199-23	506.50		CARBON	12/21/2022 6:02 PM	bl	0.720	2 273 550	0.823	0.044	171 515	362 735	0.676	0.103	0.9838	1.0000



Name:

Access: soliTOC superuser

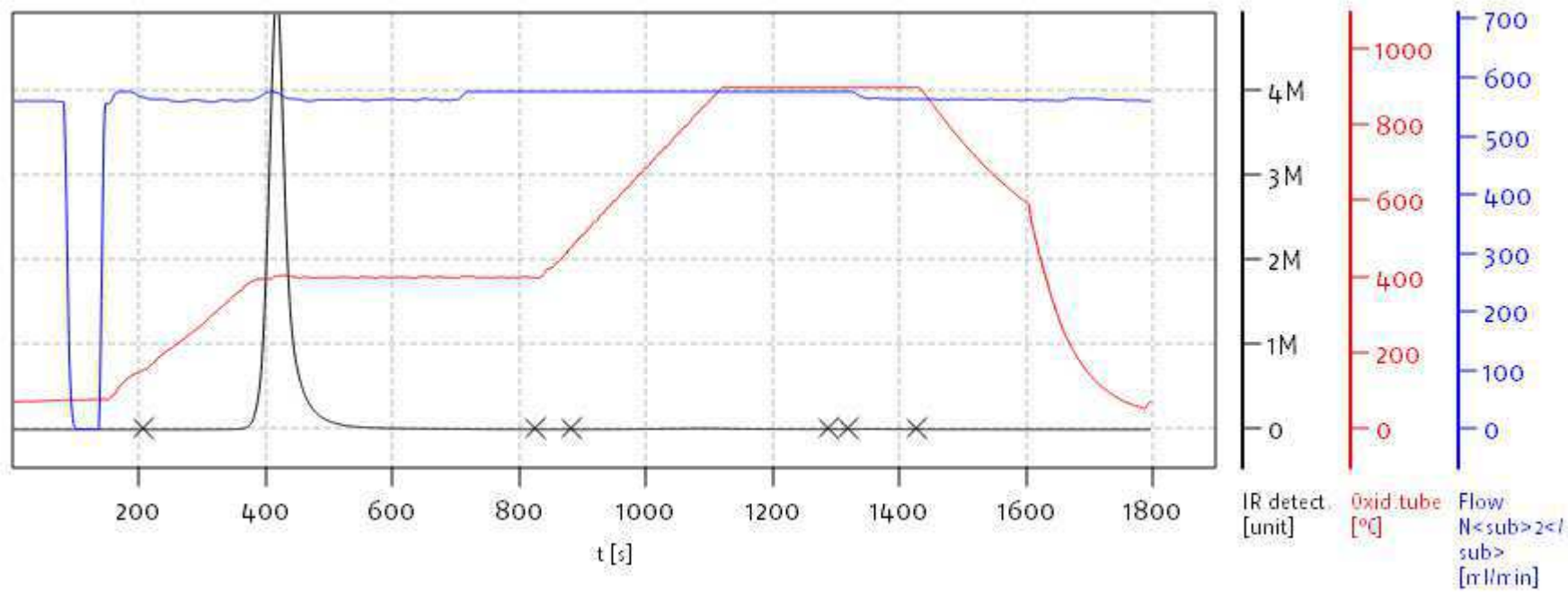
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SKL0276-CCV1	23.00		CARBON	12/21/2022 6:32 PM	bl	44.682	6 774 263	45.101	0.000	16 571	88 811	44.682	0.419	0.9838	1.0000



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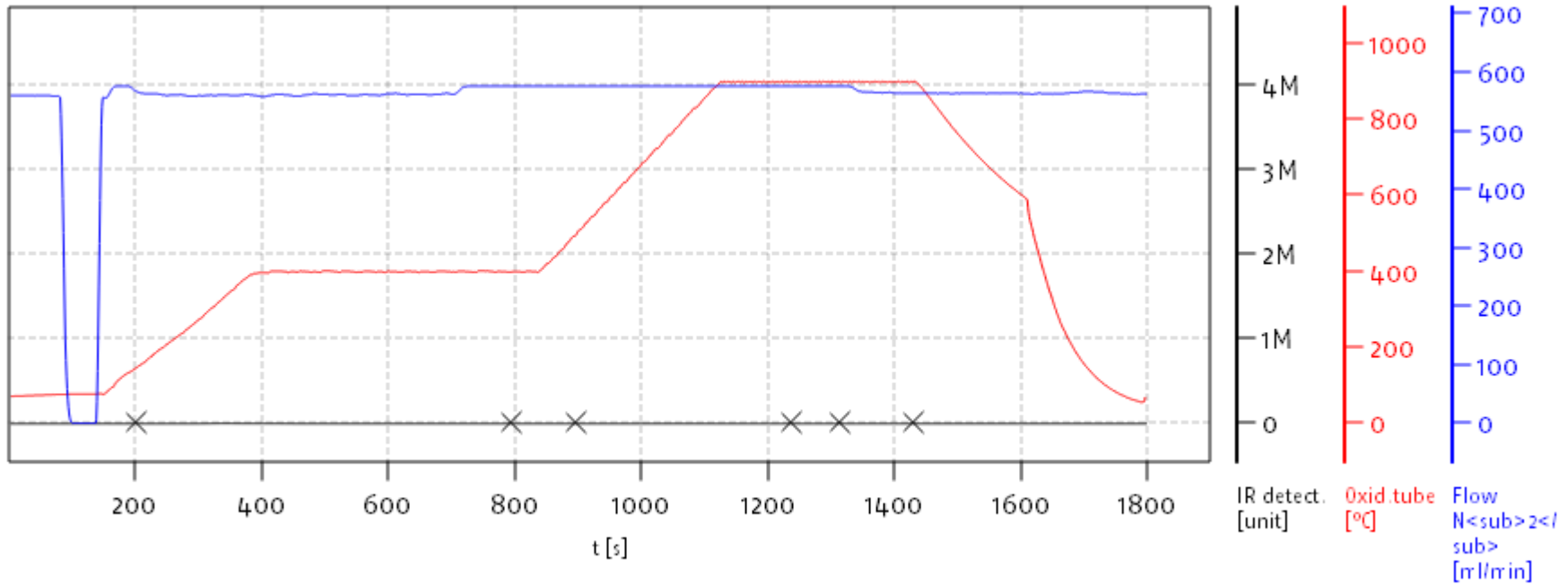
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SKL0276-CCB1	508.60		CARBON	12/21/2022 7:03 PM	bl,C3u,C2u	0.000	11 254	0.000	0.000	540	1 526	0.000	0.000	0.9838	1.0000



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Mode CCC

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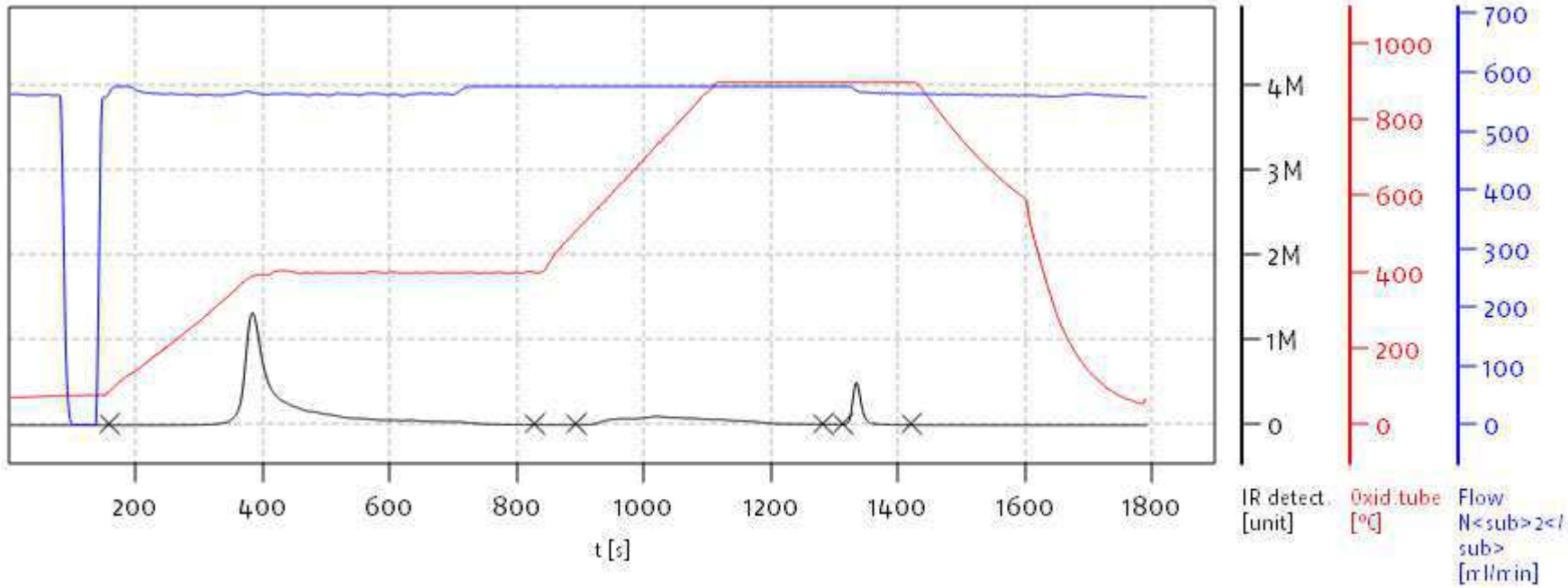
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	22L0199-24	517.90		CARBON	12/21/2022 7:33 PM	bl	0.937	2 922 460	1.152	0.086	312 618	746 388	0.852	0.215	0.9838	1.0000



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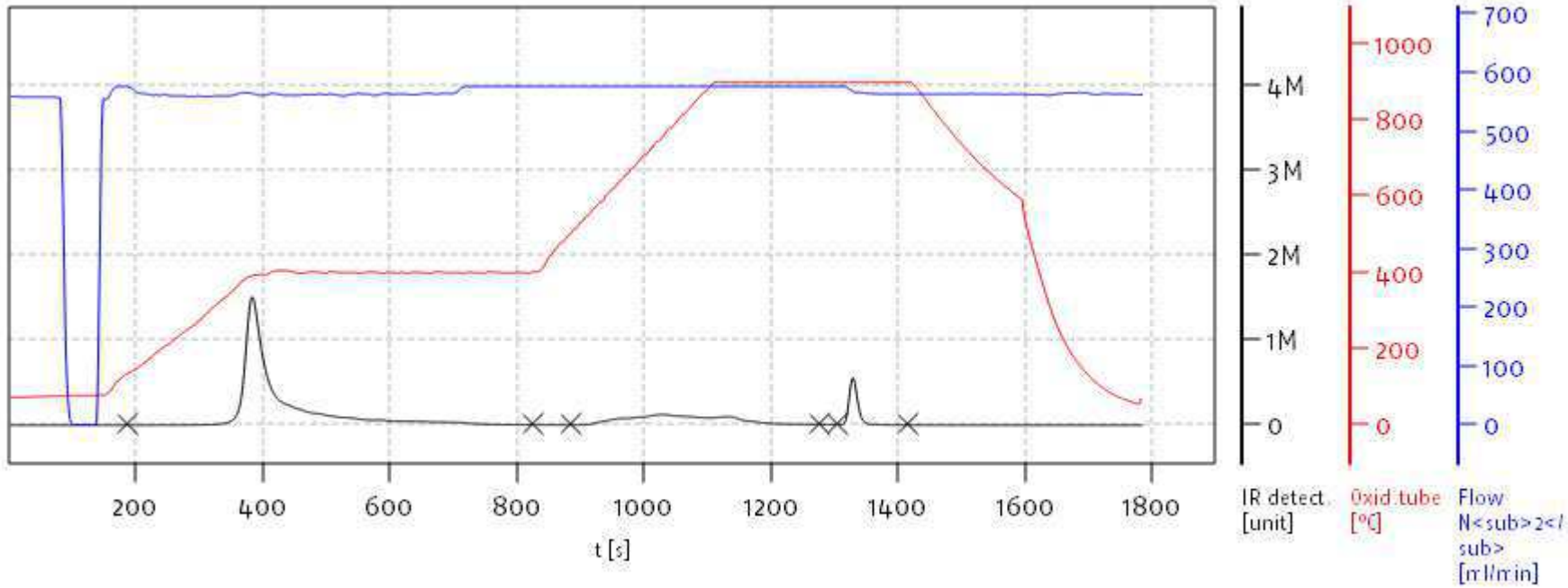
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	22L0199-25	505.80		CARBON	12/21/2022 8:03 PM	bl	0.979	2 963 528	1.244	0.095	336 404	891 802	0.884	0.265	0.9838	1.0000



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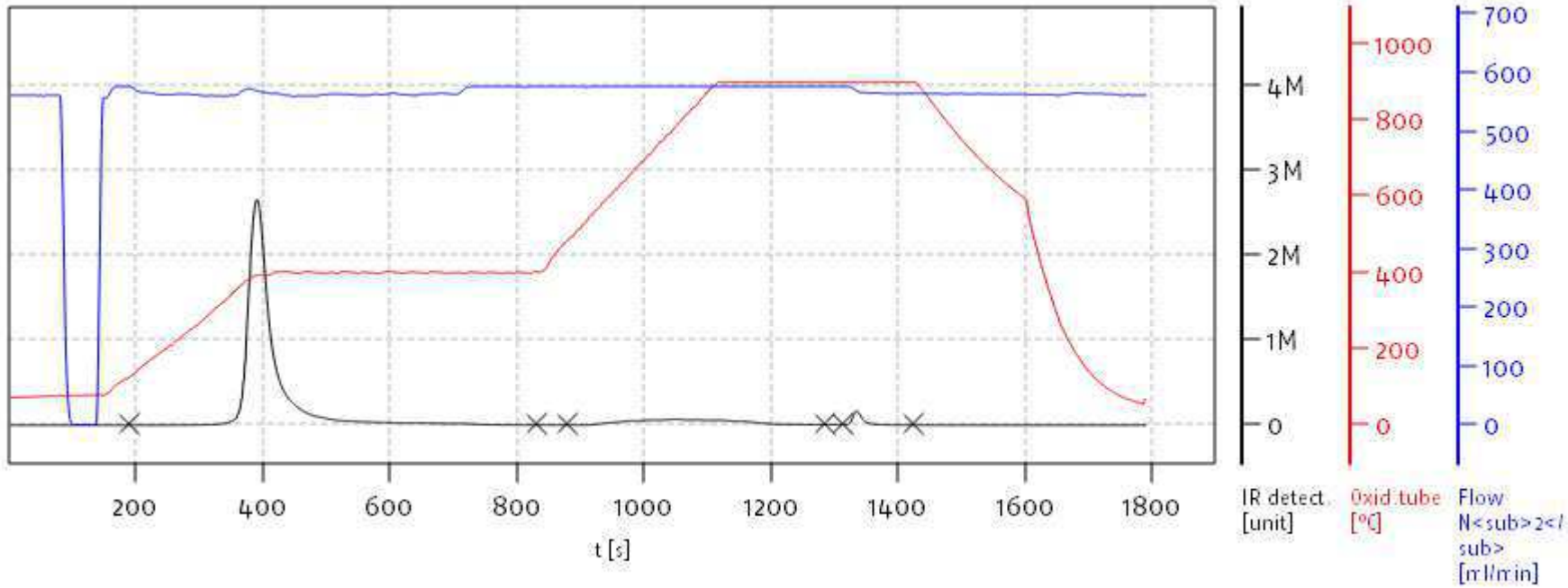
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	22L0199-26	526.90		CARBON	12/21/2022 8:33 PM	bl	1.282	4 372 416	1.431	0.026	115 757	532 484	1.256	0.149	0.9838	1.0000



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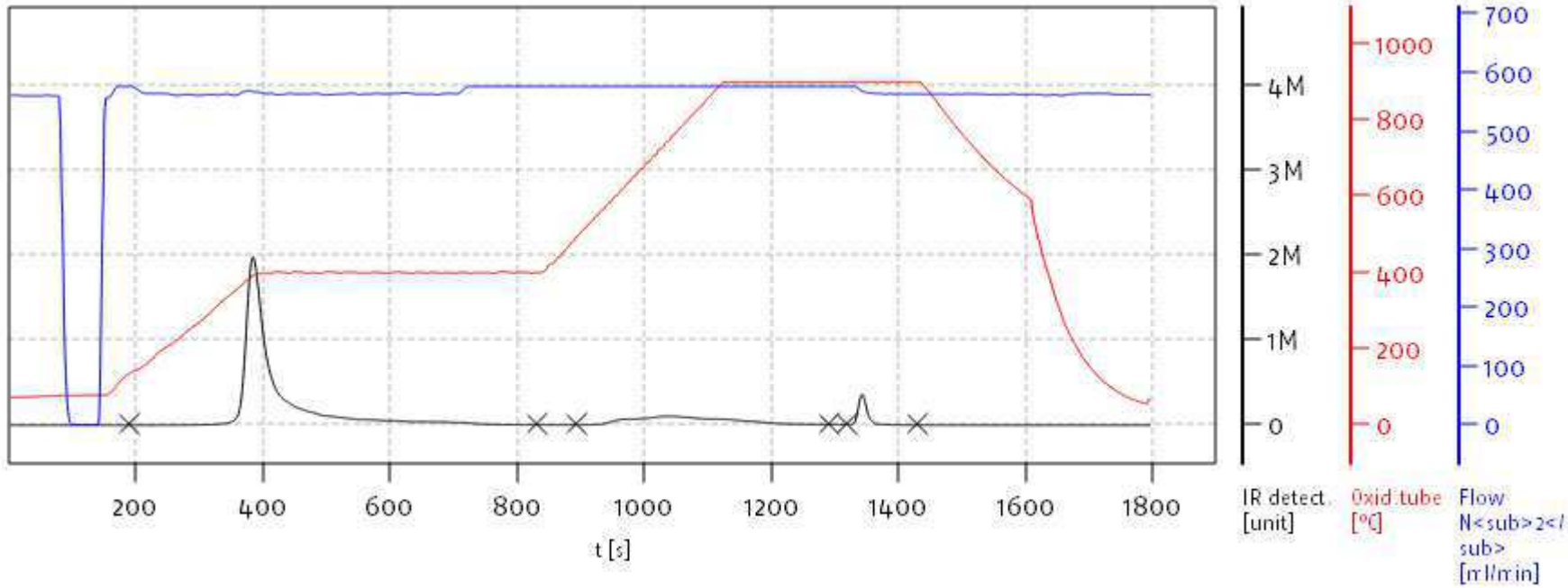
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	22L0199-27	506.10		CARBON	12/21/2022 9:04 PM	bl	1.119	3 543 571	1.339	0.061	226 250	743 825	1.058	0.219	0.9838	1.0000



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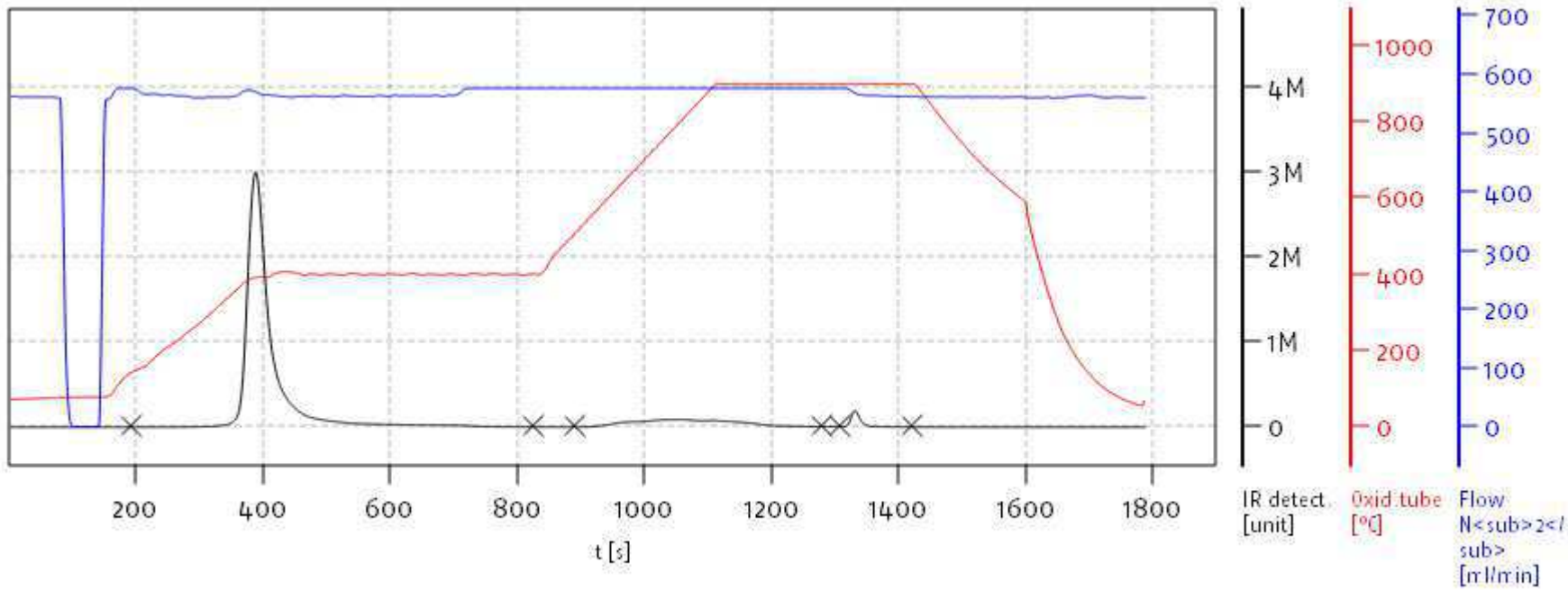
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	22L0199-28	563.50		CARBON	12/21/2022 9:34 PM	bl	1.298	4 726 229	1.475	0.028	128 841	669 867	1.270	0.177	0.9838	1.0000



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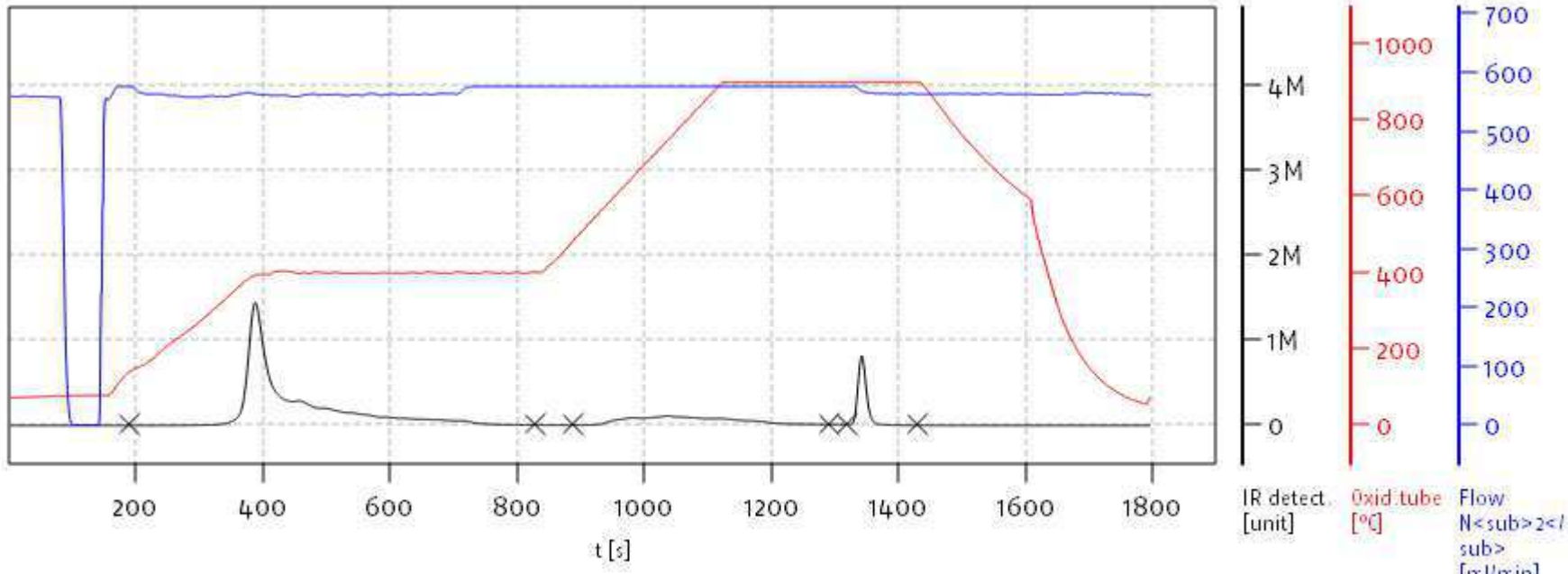
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	22L0199-29	534.00		CARBON	12/21/2022 10:04 PM	bl	1.115	3 471 461	1.350	0.132	483 060	838 929	0.983	0.236	0.9838	1.0000



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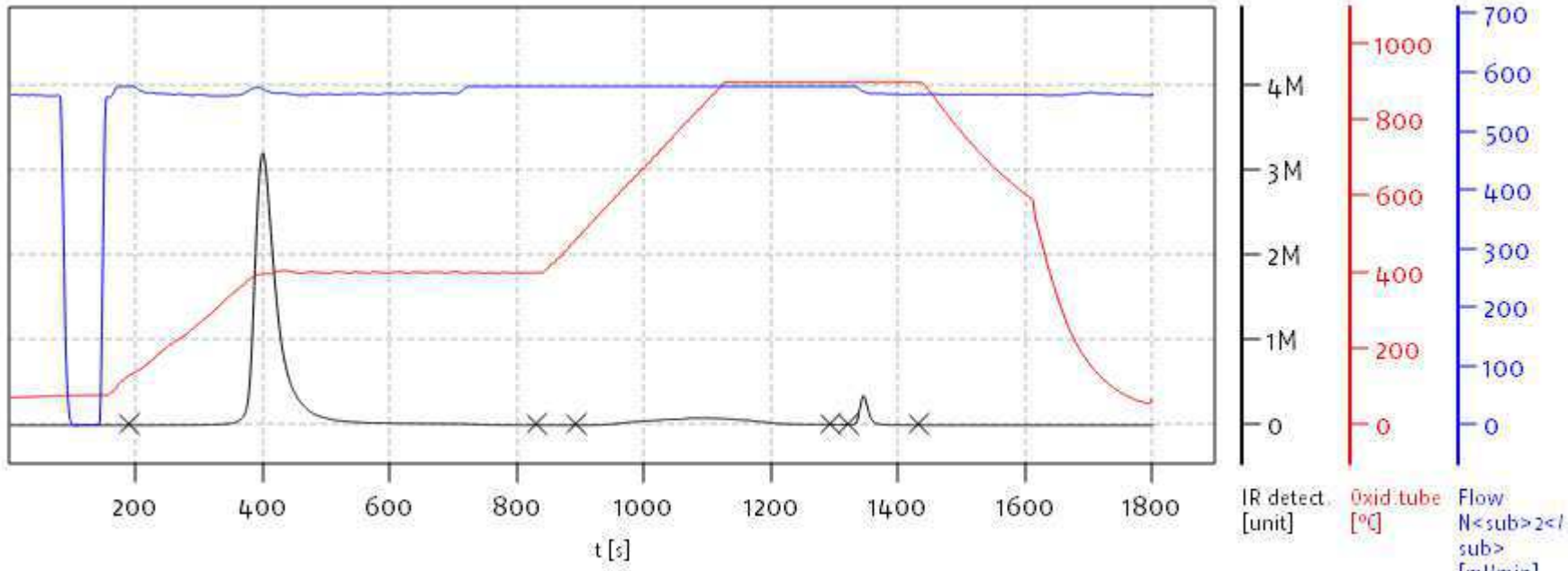
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	22L0199-30	513.60		CARBON	12/21/2022 10:35 PM	bl	1.575	5 150 935	1.750	0.056	210 698	607 595	1.520	0.175	0.9838	1.0000



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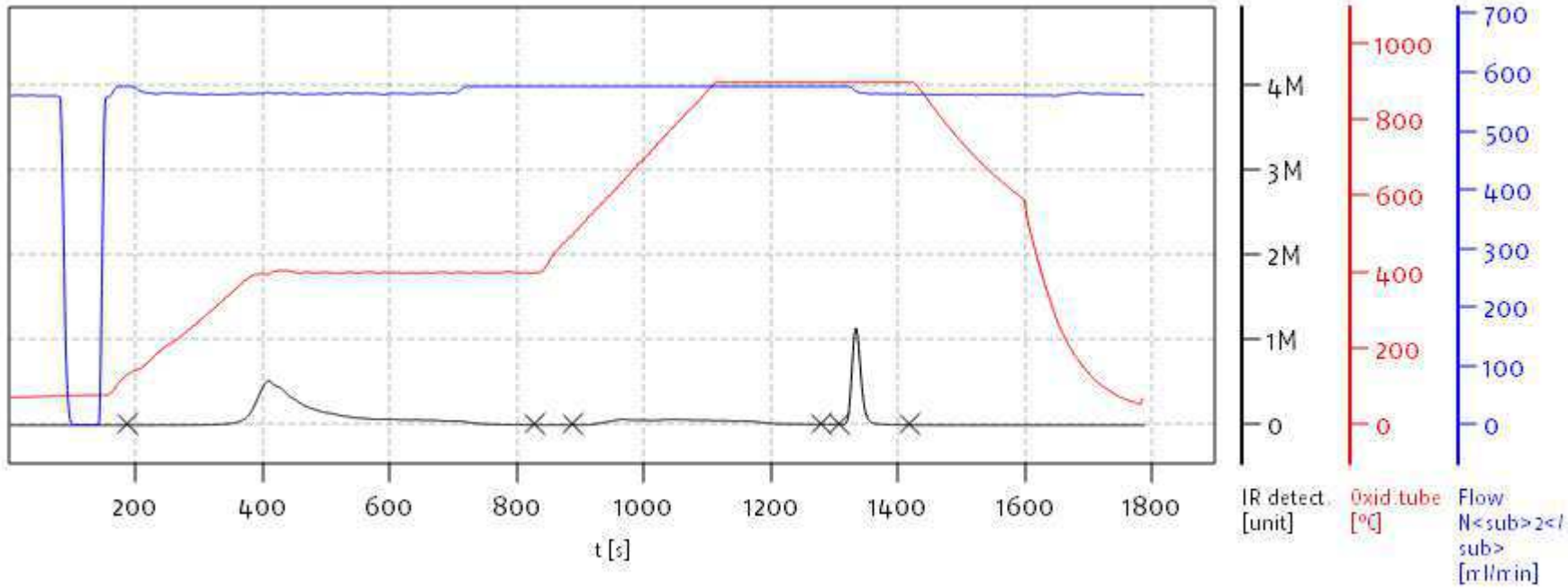
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	22L0199-31	545.70		CARBON	12/21/2022 11:05 PM	bl	0.790	2 151 975	0.950	0.197	721 946	588 628	0.593	0.159	0.9838	1.0000



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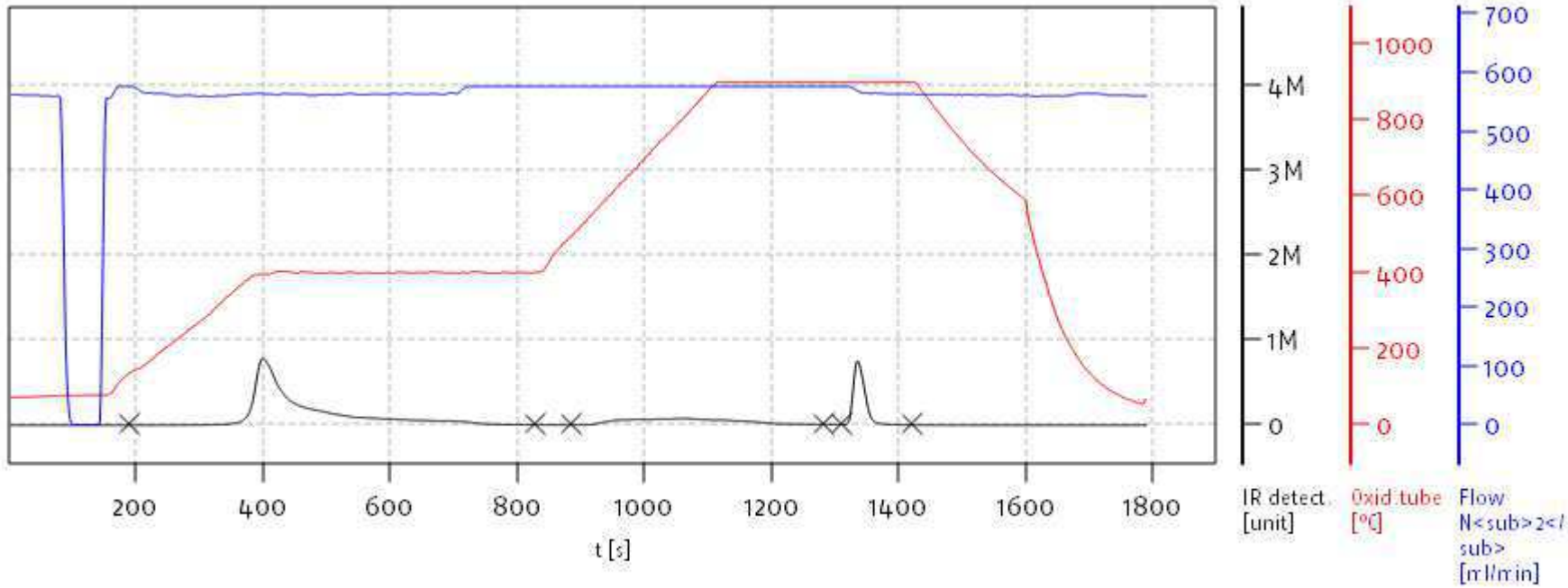
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	22L0199-32	510.00		CARBON	12/21/2022 11:35 PM	bl	0.887	2 413 973	1.074	0.174	599 861	643 330	0.713	0.187	0.9838	1.0000



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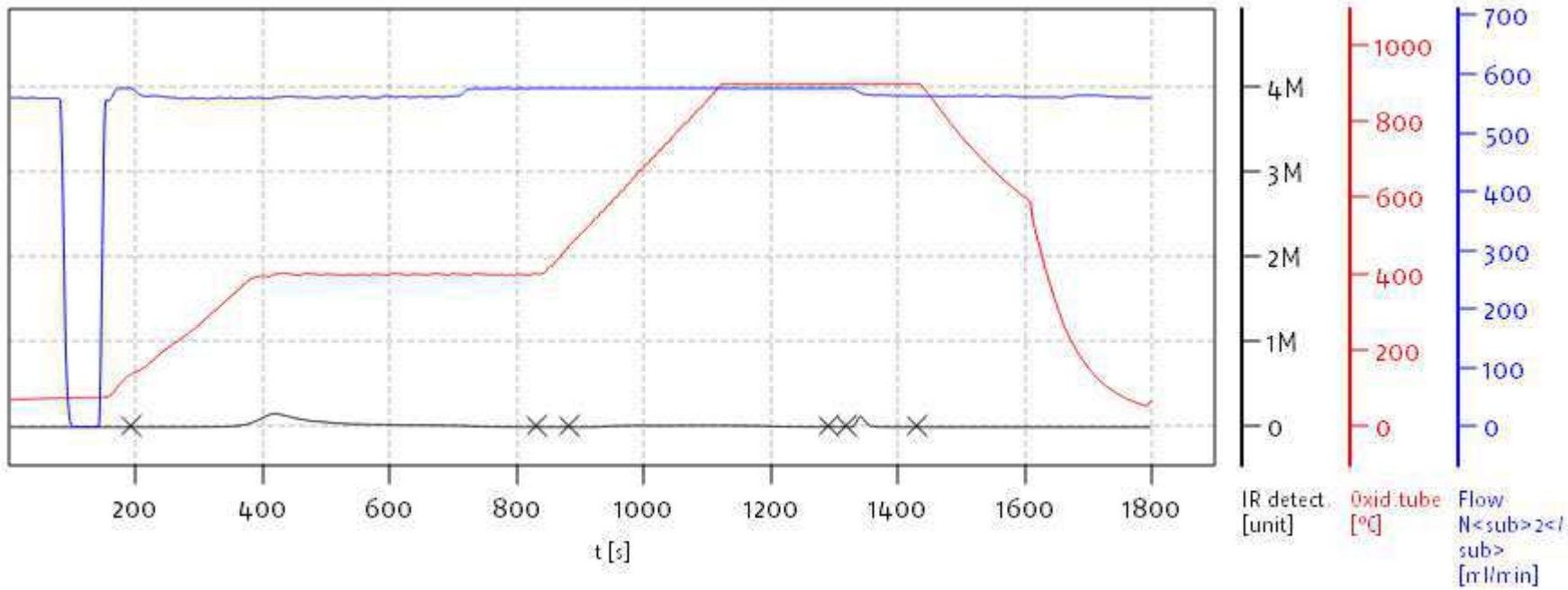
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	22L0199-33	501.20		CARBON	12/22/2022 12:05 AM	bl	0.234	745 122	0.281	0.015	75 643	179 059	0.218	0.047	0.9838	1.0000



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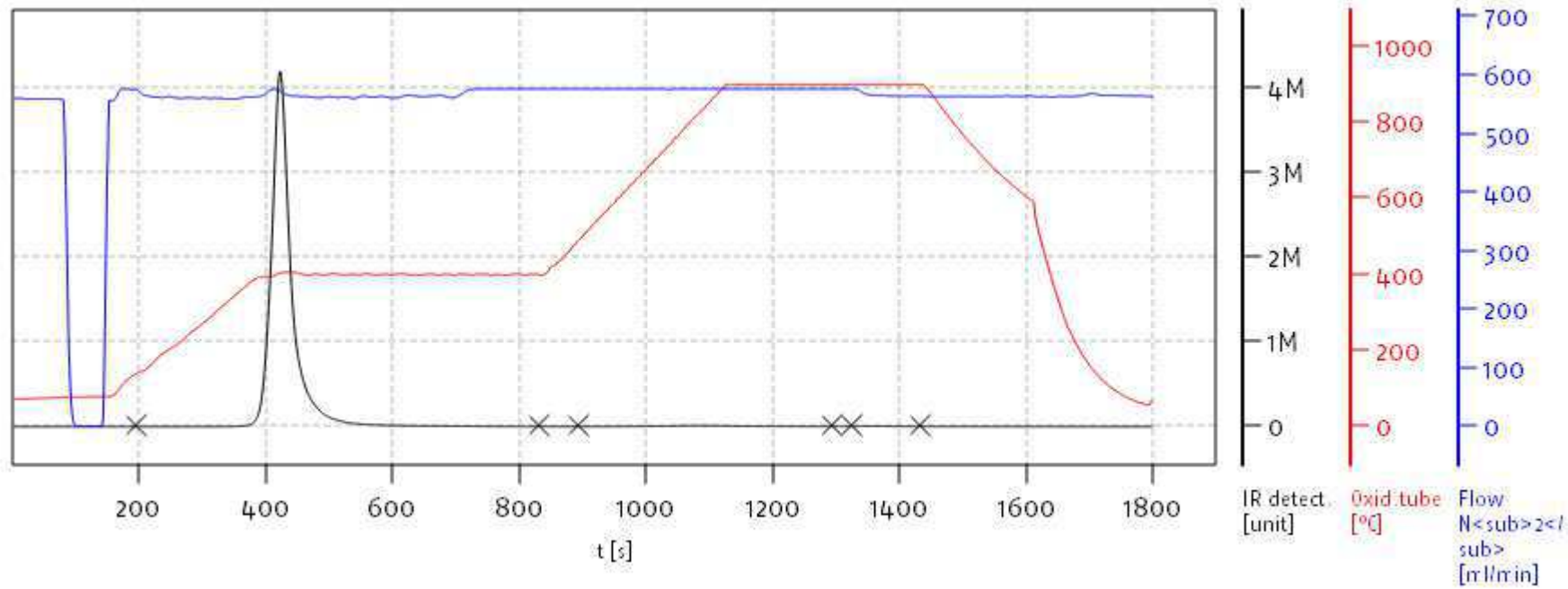
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SKL0276-CCV2	19.80		CARBON	12/22/2022 12:36 AM	bl	43.991	5 745 536	44.396	0.000	16 951	78 395	43.991	0.405	0.9838	1.0000



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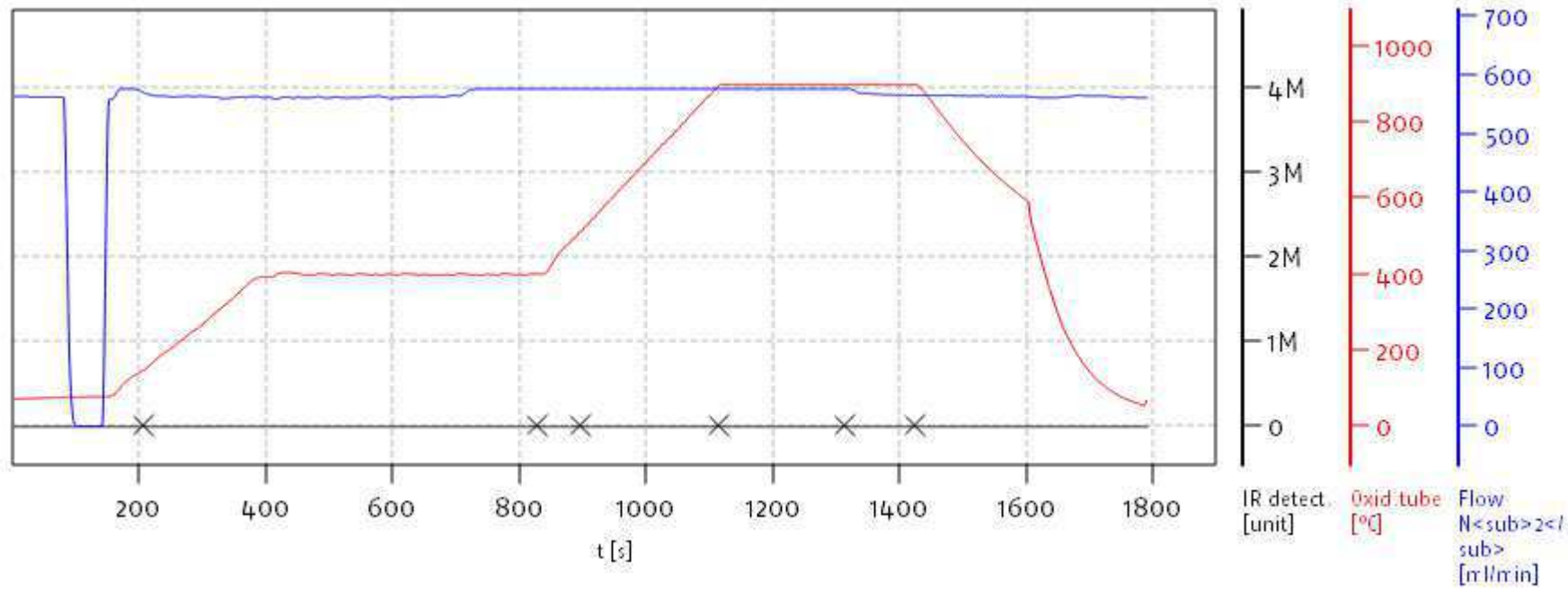
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SKL0276-CCB2	527.10		CARBON	12/22/2022 1:06 AM	bl,C3u,C2u	0.000	4 617	0.000	0.000	477	629	0.000	0.000	0.9838	1.0000



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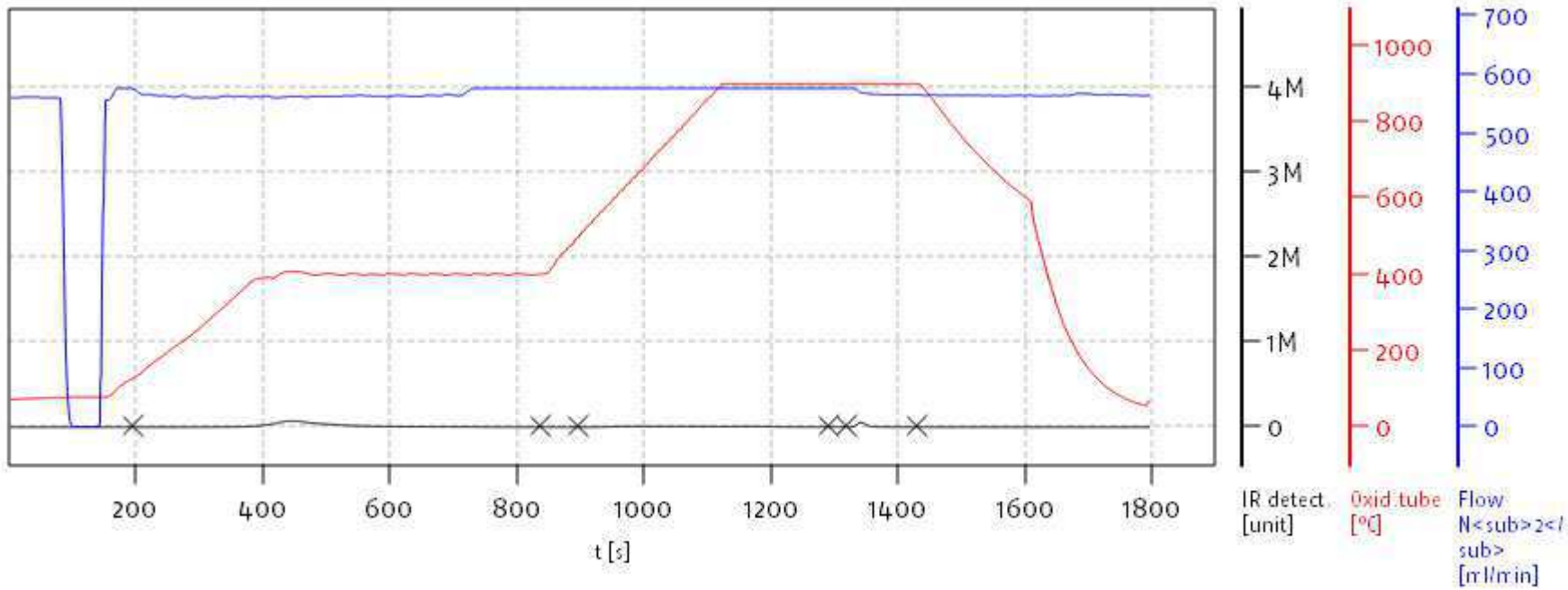
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	22L0199-34	608.00		CARBON	12/22/2022 1:36 AM	bl	0.072	300 942	0.086	0.003	37 396	83 042	0.069	0.014	0.9838	1.0000



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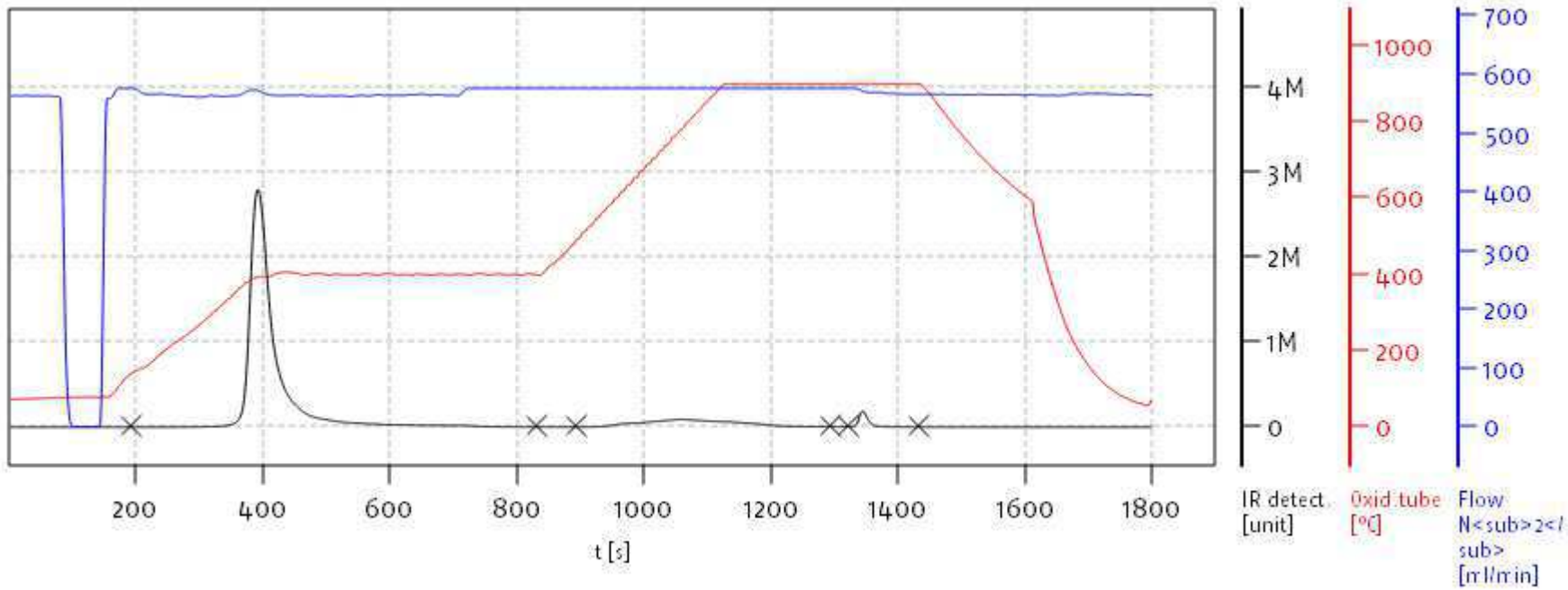
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	22L0199-35	564.60		CARBON	12/22/2022 2:07 AM	bl	1.242	4 533 495	1.399	0.026	123 180	599 601	1.216	0.157	0.9838	1.0000



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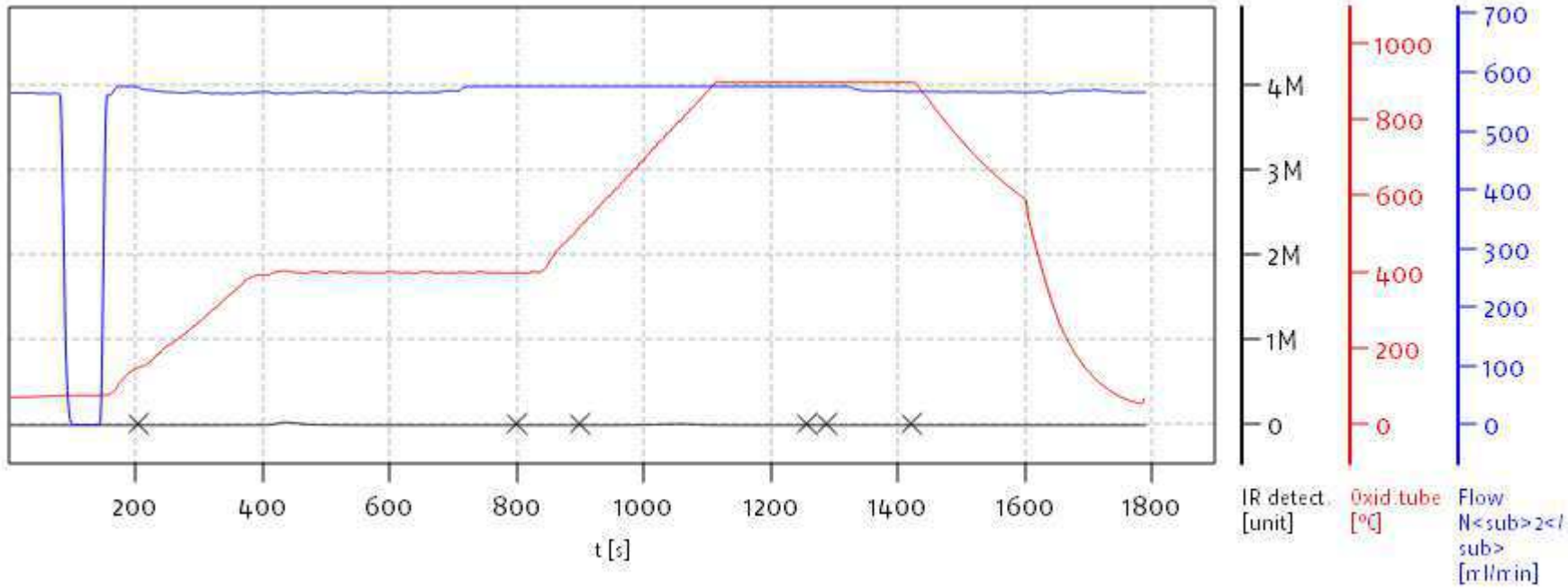
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	BKL0471-MRL1	532.80		CARBON	12/22/2022 2:37 AM	bl,C2u	0.010	60 188	0.012	0.000	275	34 828	0.010	0.002	0.9838	1.0000



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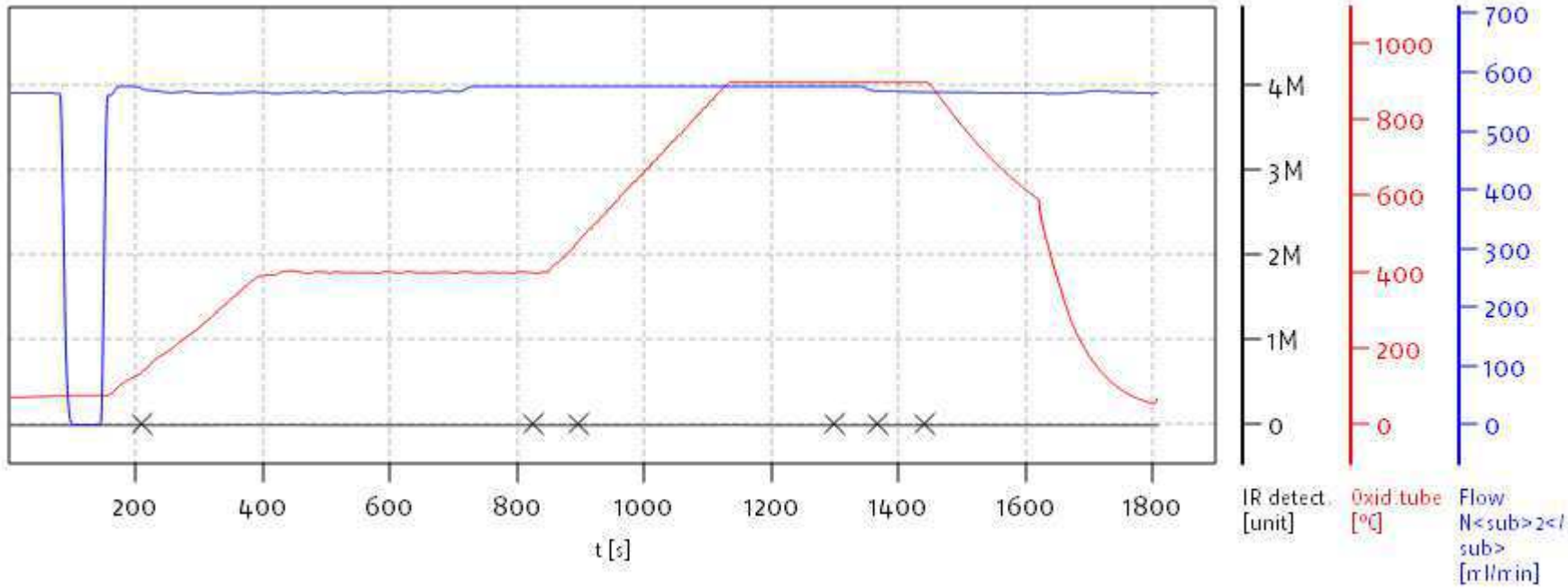
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	BKL0471-BLK1	523.70		CARBON	12/22/2022 3:08 AM	bl,C2u	0.000	10 104	0.000	0.000	187	7 591	0.000	0.000	0.9838	1.0000



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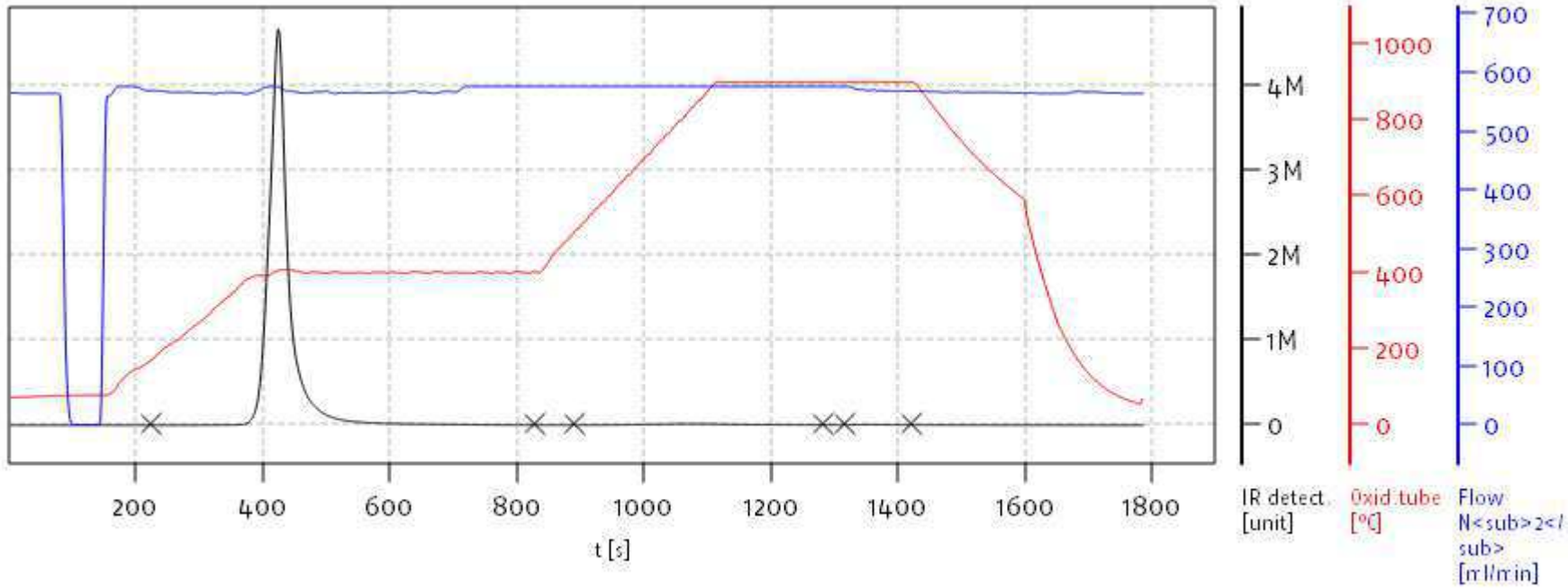
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	BKL0471-BS1	21.40		CARBON	12/22/2022 3:38 AM	bl	43.971	6 204 969	44.543	0.000	19 777	105 587	43.971	0.572	0.9838	1.0000



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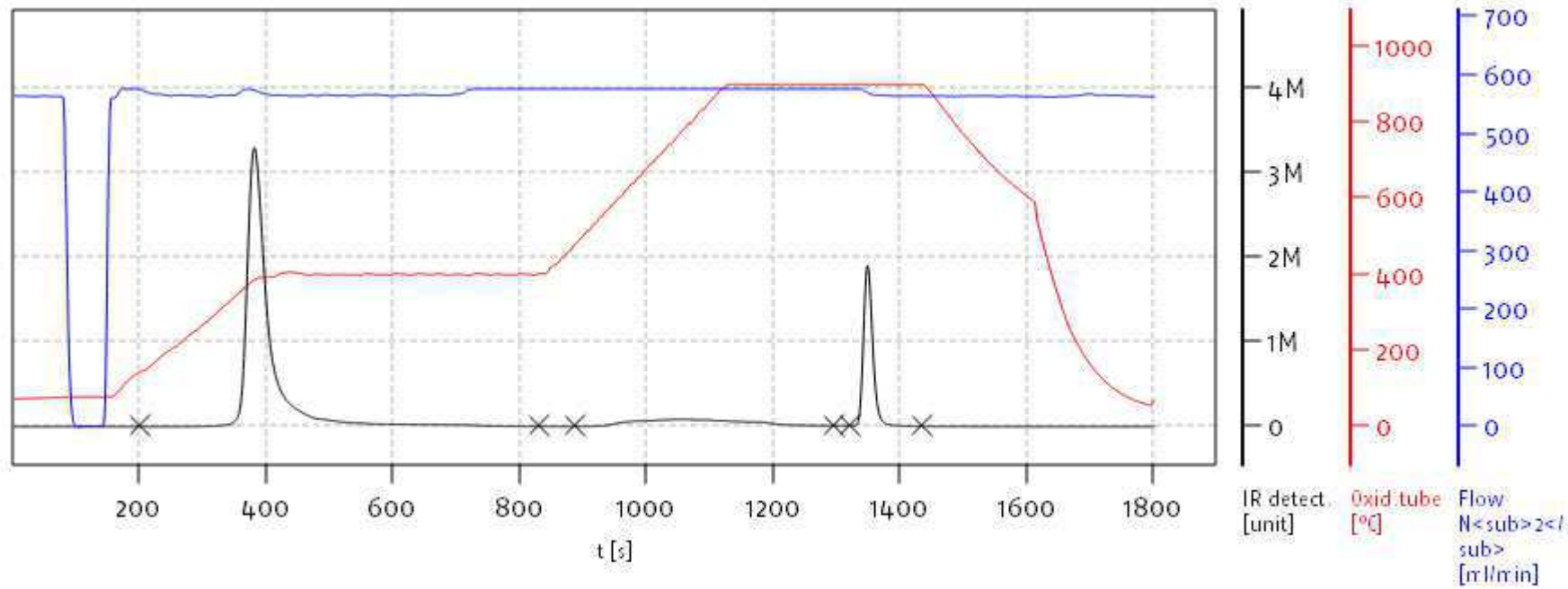
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	BKL0471-SRM1	311.40		CARBON	12/22/2022 4:08 AM	bl	2.952	4 841 628	3.291	0.597	1 227 540	708 765	2.355	0.339	0.9838	1.0000



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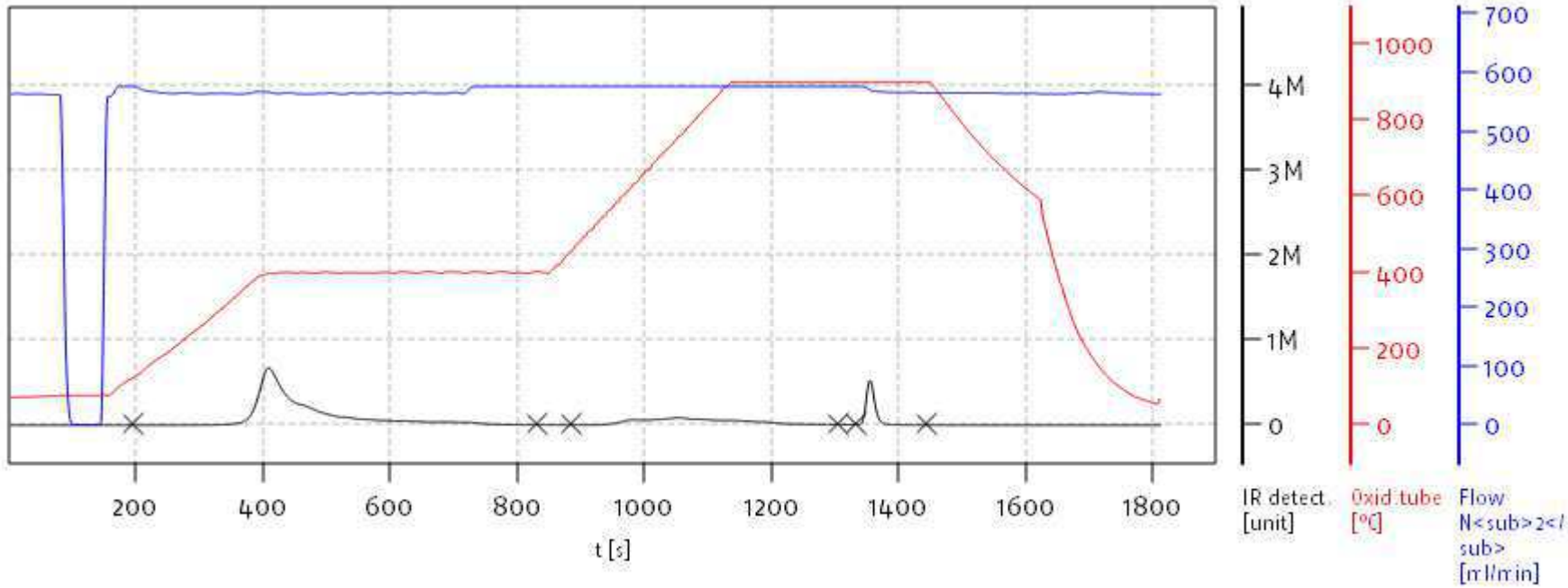
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	22L0199-36	520.20		CARBON	12/22/2022 4:39 AM	bl	0.689	2 087 369	0.863	0.086	314 826	610 490	0.603	0.174	0.9838	1.0000



Name:

Access: soliTOC superuser

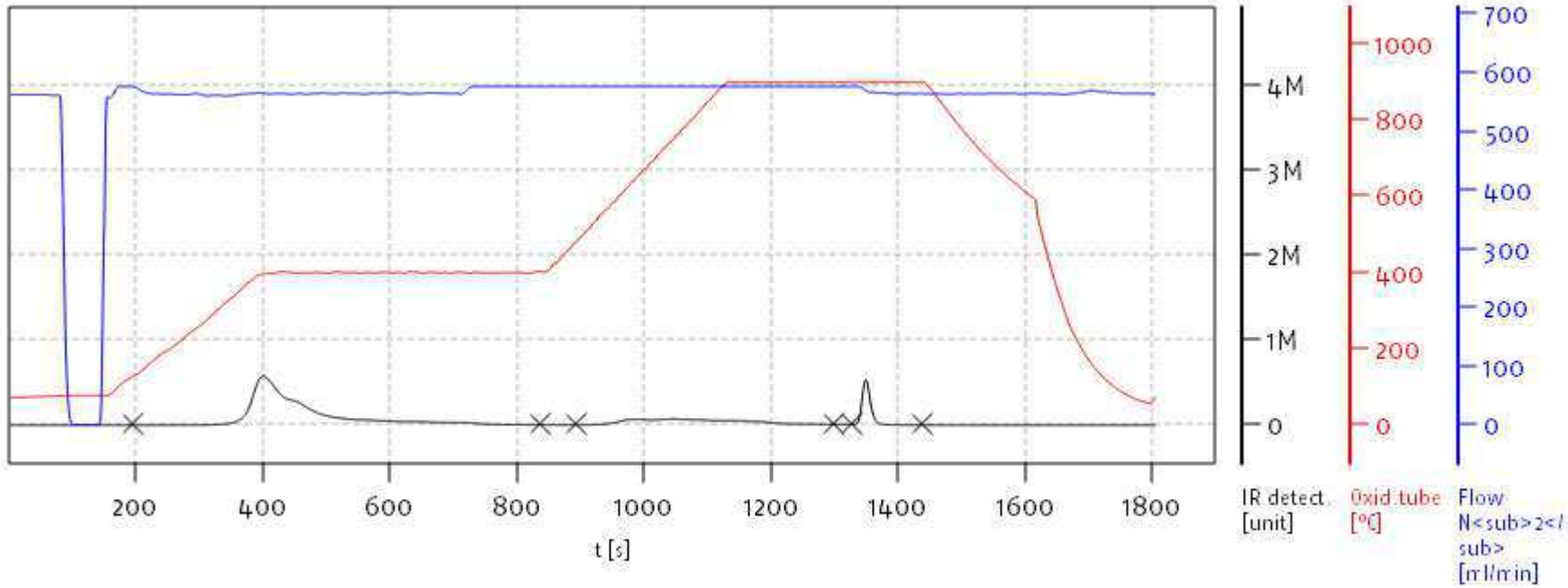
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	BKL0471-DUP1	514.90		CARBON	12/22/2022 5:09 AM	bl	0.686	2 050 614	0.860	0.087	316 893	605 048	0.599	0.174	0.9838	1.0000



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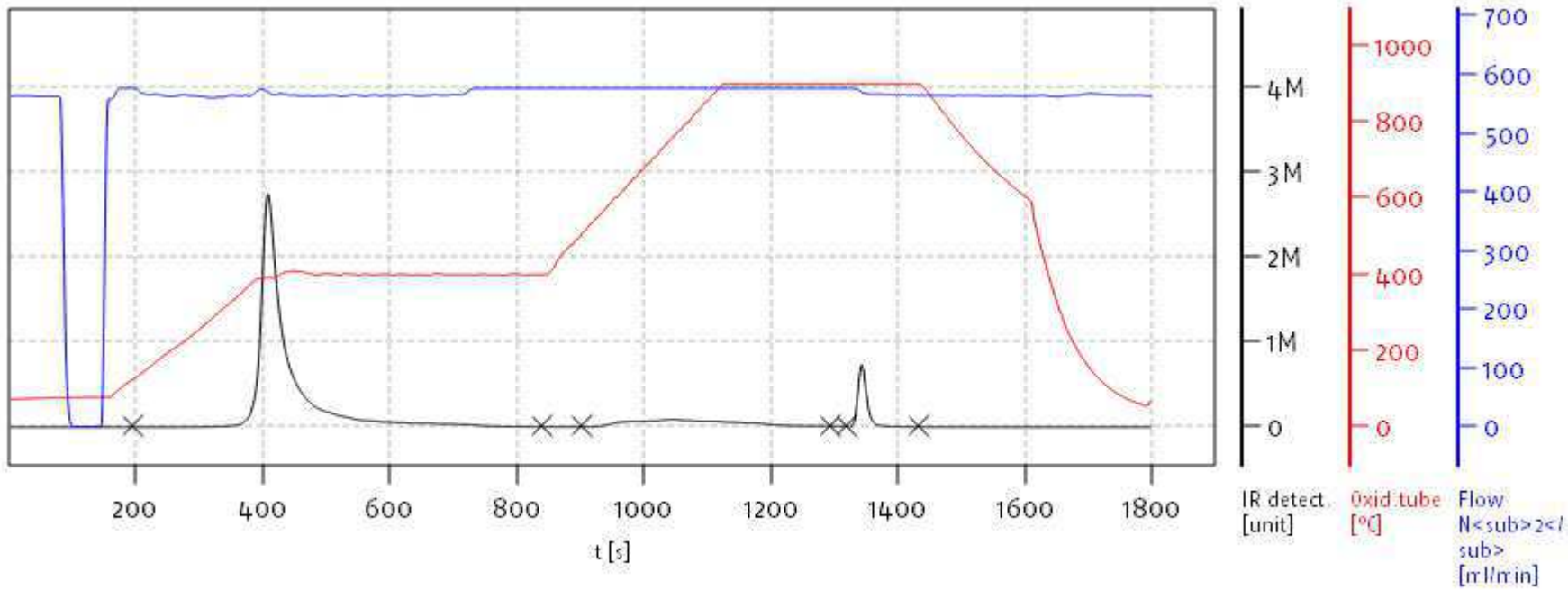
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	BKL0471-MS1	511.10	0.0090	CARBON	12/22/2022 5:40 AM	bl	1.522	4 698 692	1.723	0.130	454 878	689 063	1.392	0.201	0.9838	1.0000



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Serial No: 0300.181017
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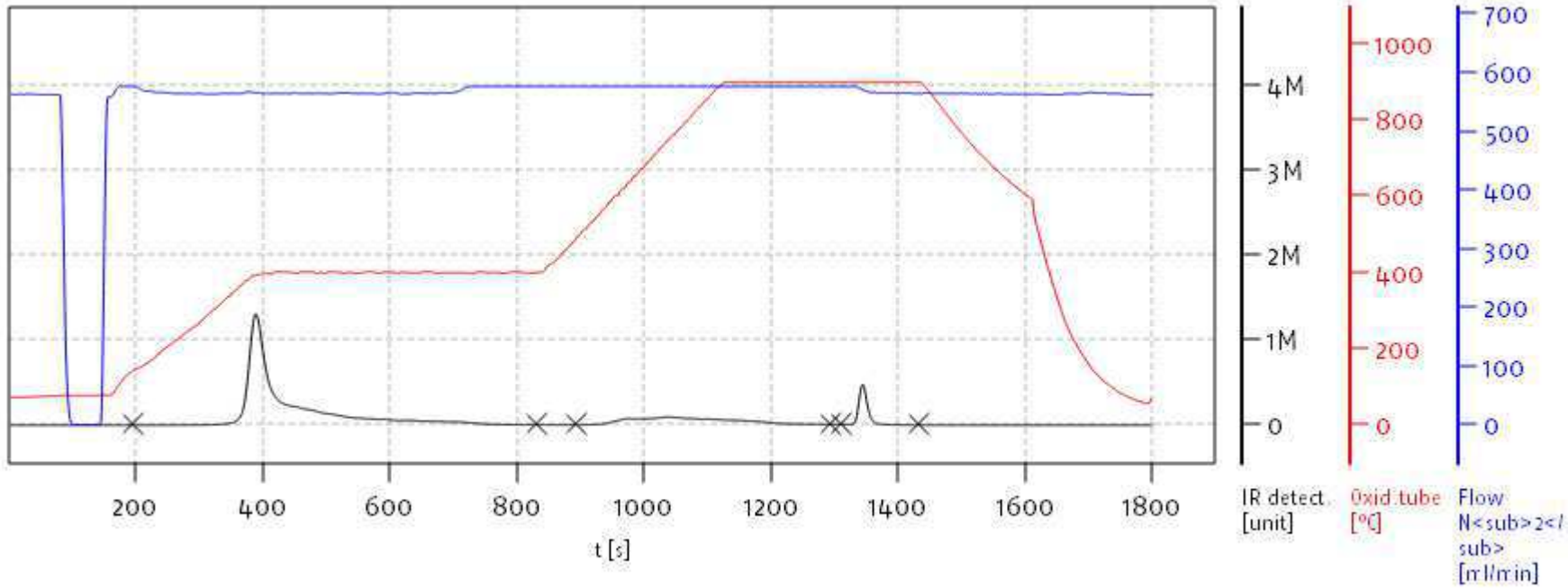
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	22L0199-37	503.70		CARBON	12/22/2022 6:10 AM	bl	0.902	2 737 092	1.112	0.083	295 148	710 697	0.820	0.210	0.9838	1.0000



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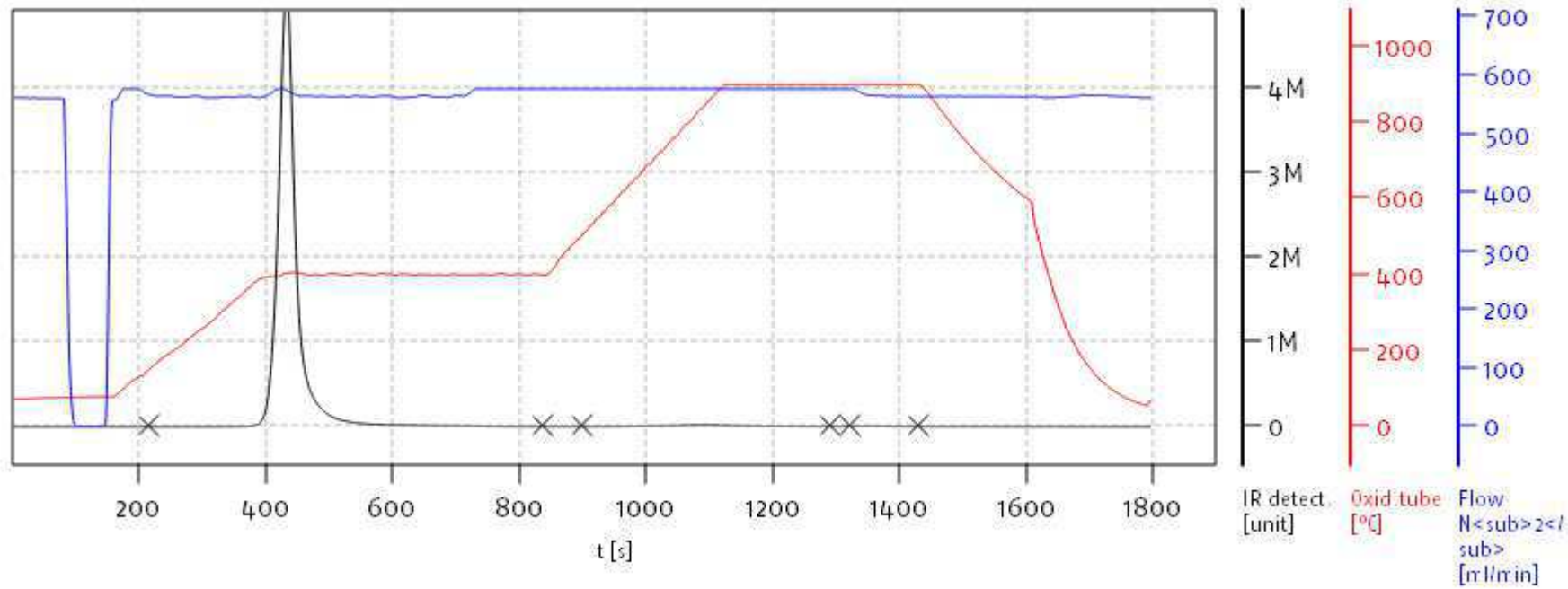
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SKL0276-CCV3	21.60		CARBON	12/22/2022 6:40 AM	bl	44.461	6 332 177	45.096	0.000	19 592	115 076	44.461	0.635	0.9838	1.0000



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Soli TOC Cube, Carbon
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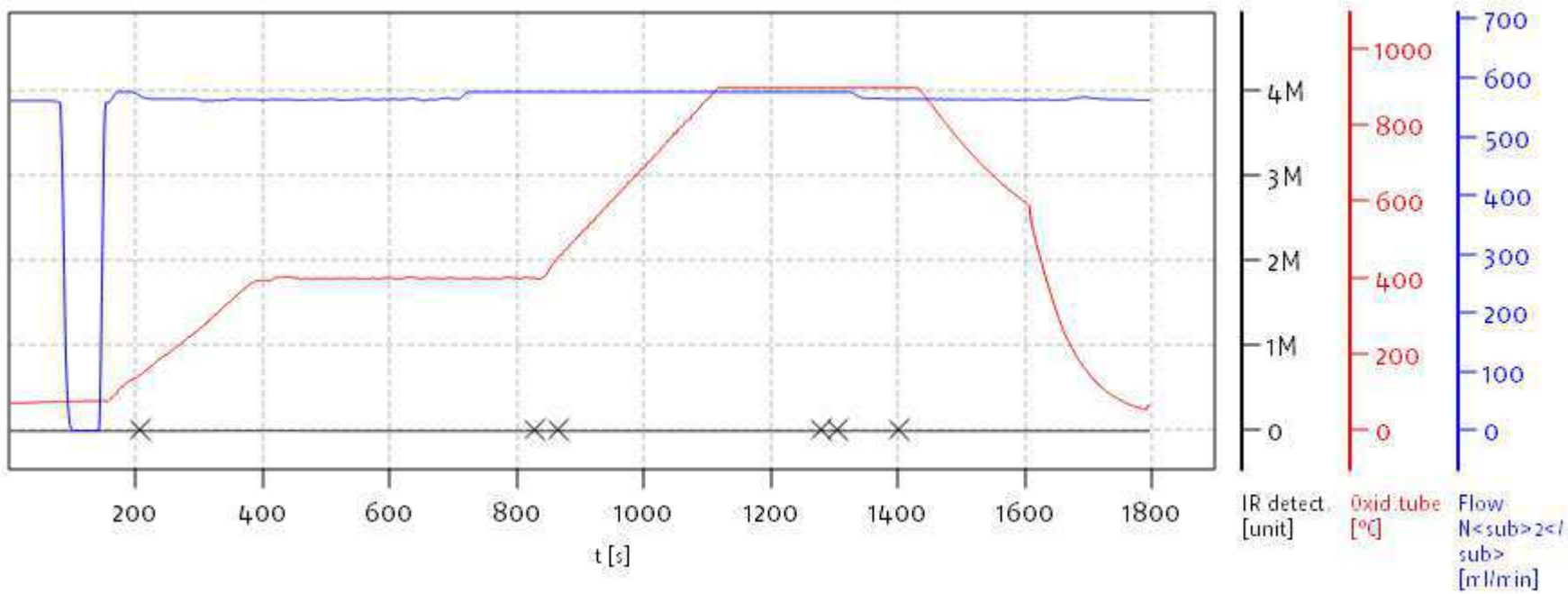
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SKL0276-CCB3	504.30		CARBON	12/22/2022 7:11 AM	bl,C2u	0.000	17 145	0.000	0.000	1 797	2 928	0.000	0.000	0.9838	1.0000



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Serial No: 0300.181017
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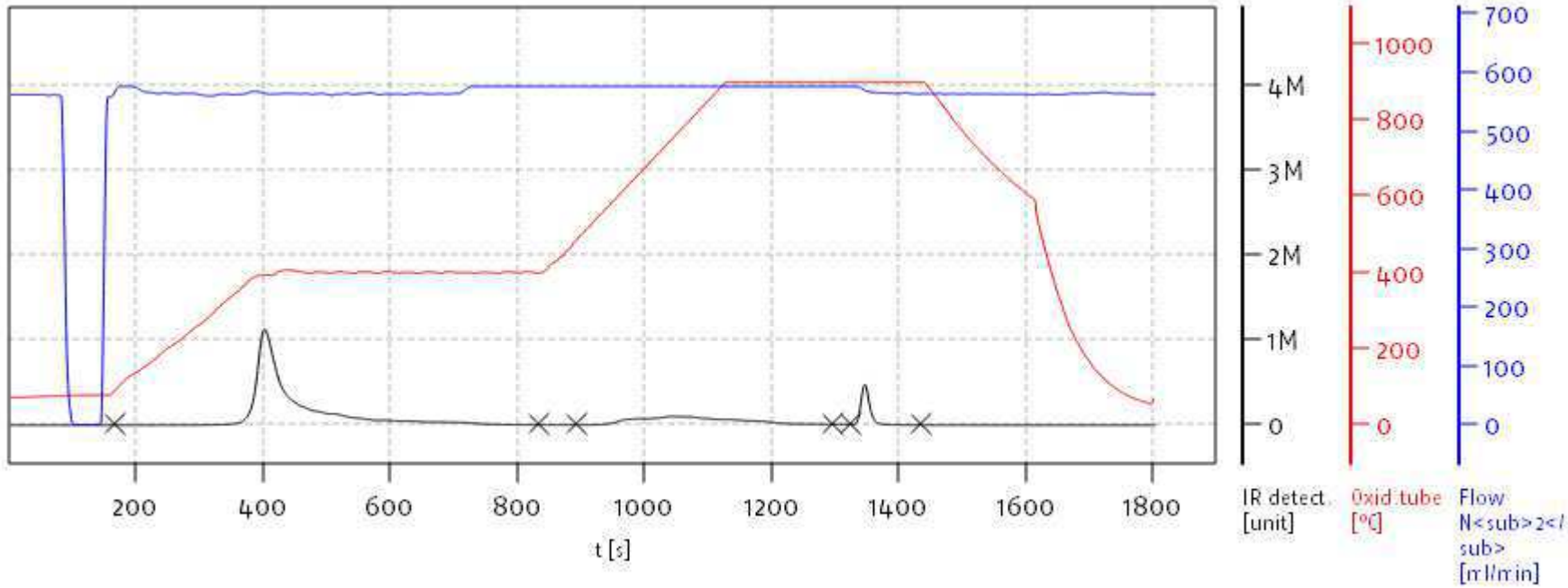
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	22L0199-38	530.60		CARBON	12/22/2022 7:41 AM	bl	0.817	2 602 282	1.027	0.078	293 702	746 692	0.739	0.210	0.9838	1.0000



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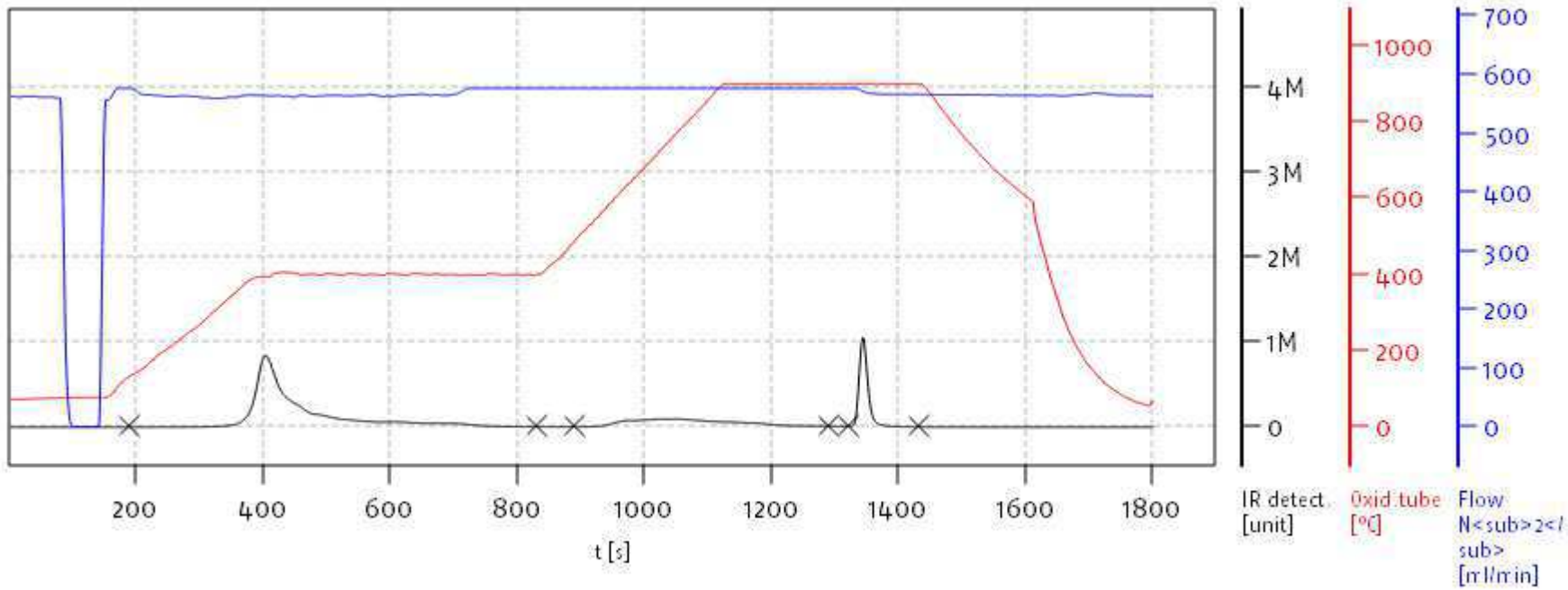
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	22L0199-39	525.90		CARBON	12/22/2022 8:11 AM	bl	0.860	2 367 473	1.072	0.182	644 948	748 272	0.678	0.212	0.9838	1.0000



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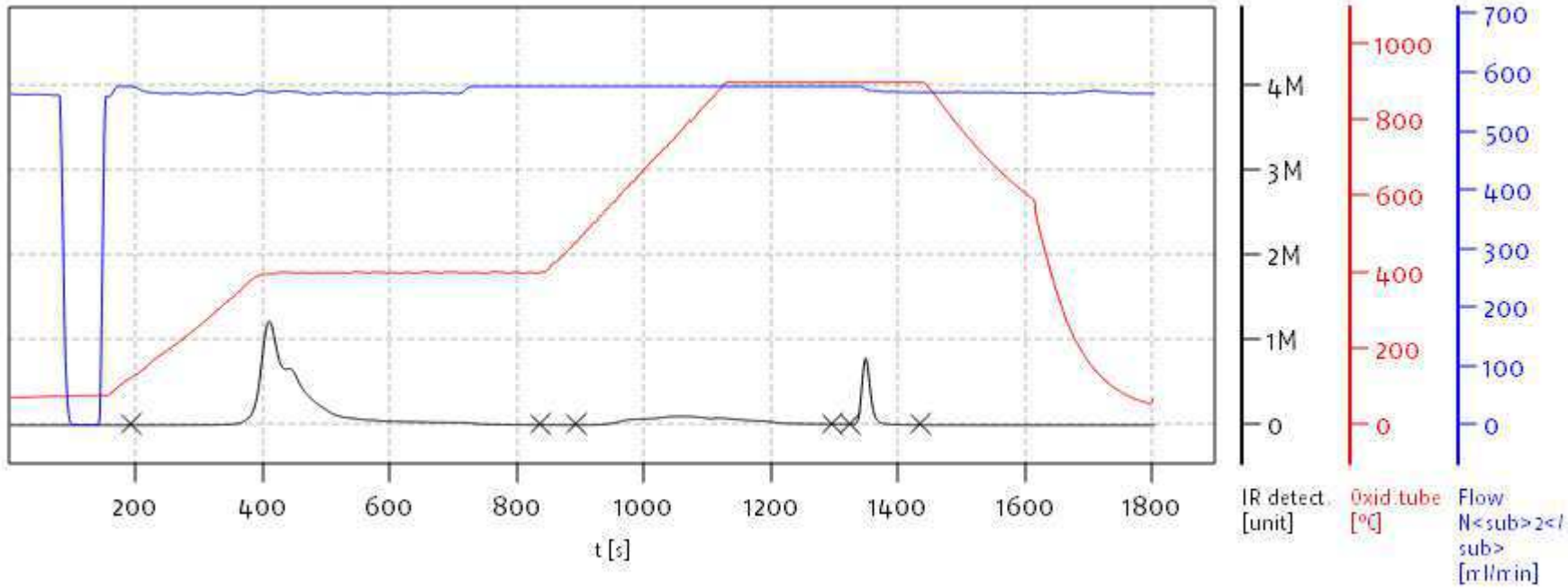
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	22L0199-40	513.00		CARBON	12/22/2022 8:42 AM	bl	1.052	3 108 416	1.278	0.137	481 402	775 747	0.915	0.226	0.9838	1.0000



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Serial No: 0300.181017
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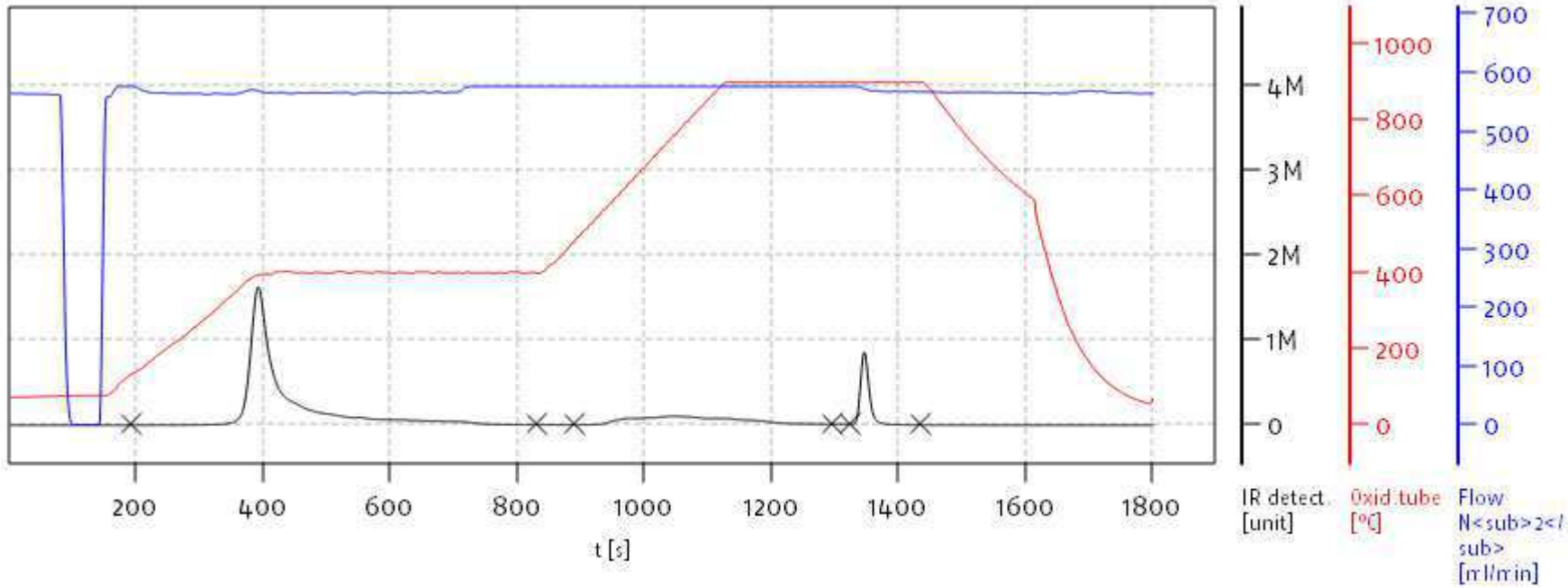
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	22L0199-41	521.90		CARBON	12/22/2022 9:12 AM	bl	1.101	3 297 381	1.338	0.147	520 635	824 026	0.955	0.237	0.9838	1.0000



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EXCELLENCE IN ELEMENTS

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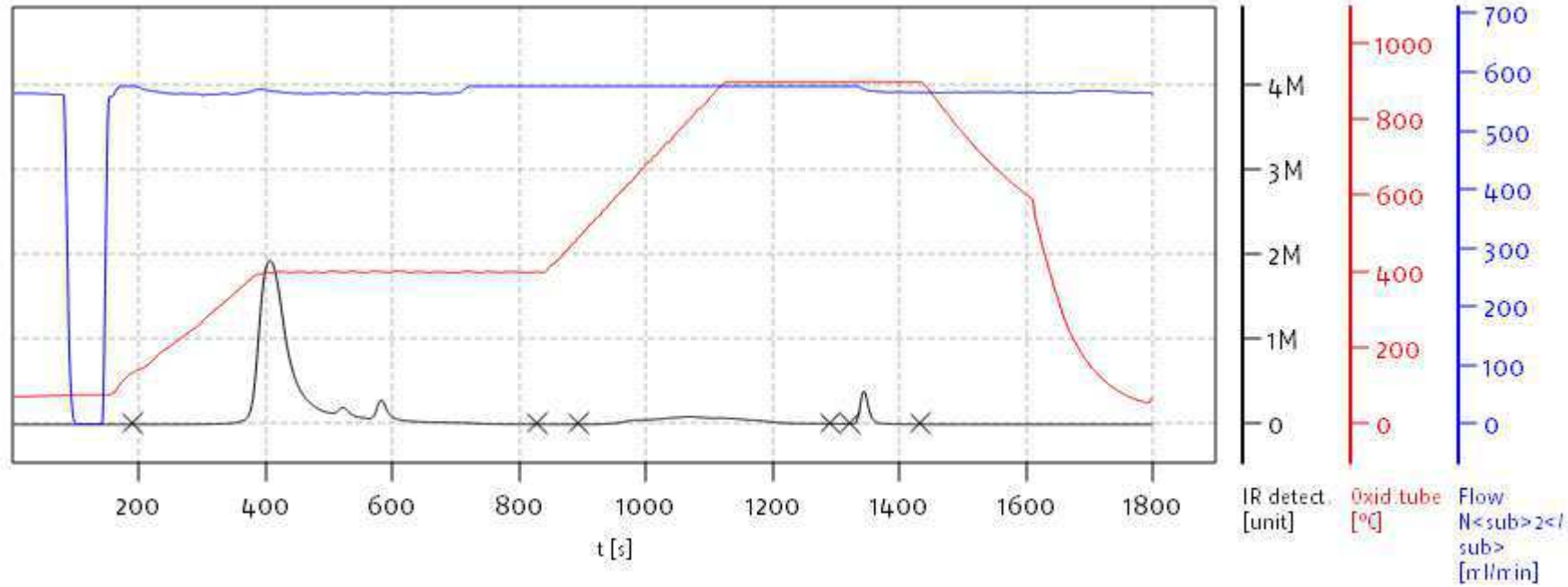
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	22L0199-42	525.70		CARBON	12/22/2022 9:43 AM	bl	1.373	4 548 950	1.551	0.063	240 829	629 697	1.310	0.178	0.9838	1.0000



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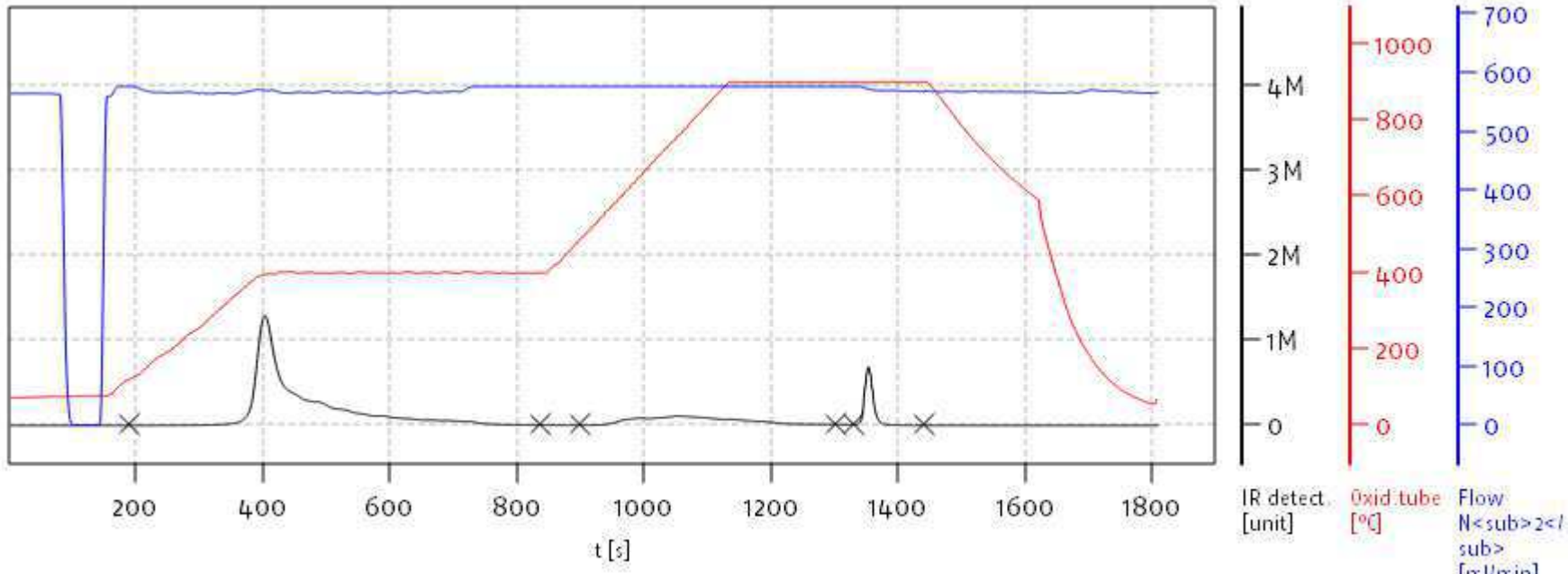
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	22L0199-43	540.80		CARBON	12/22/2022 10:13 AM	bl	1.082	3 482 281	1.305	0.109	406 283	804 644	0.973	0.223	0.9838	1.0000



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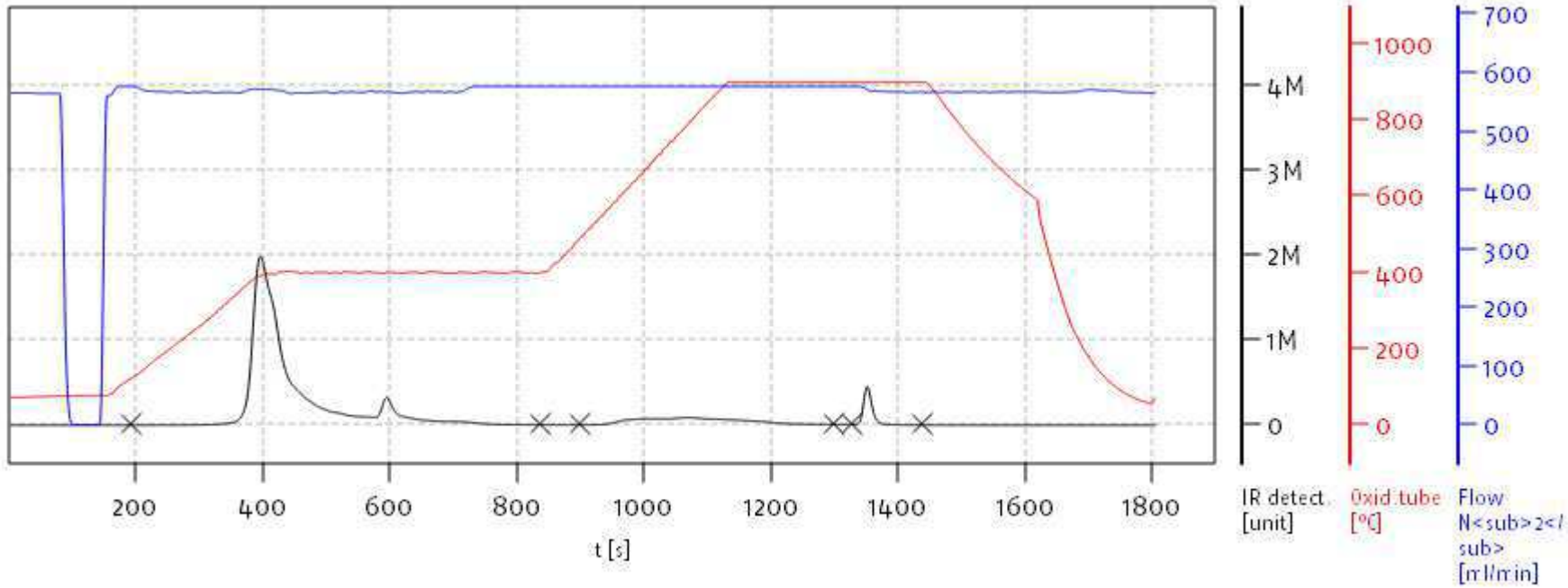
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	22L0199-44	508.80		CARBON	12/22/2022 10:44 AM	bl	1.520	4 853 305	1.722	0.076	275 077	688 715	1.445	0.201	0.9838	1.0000



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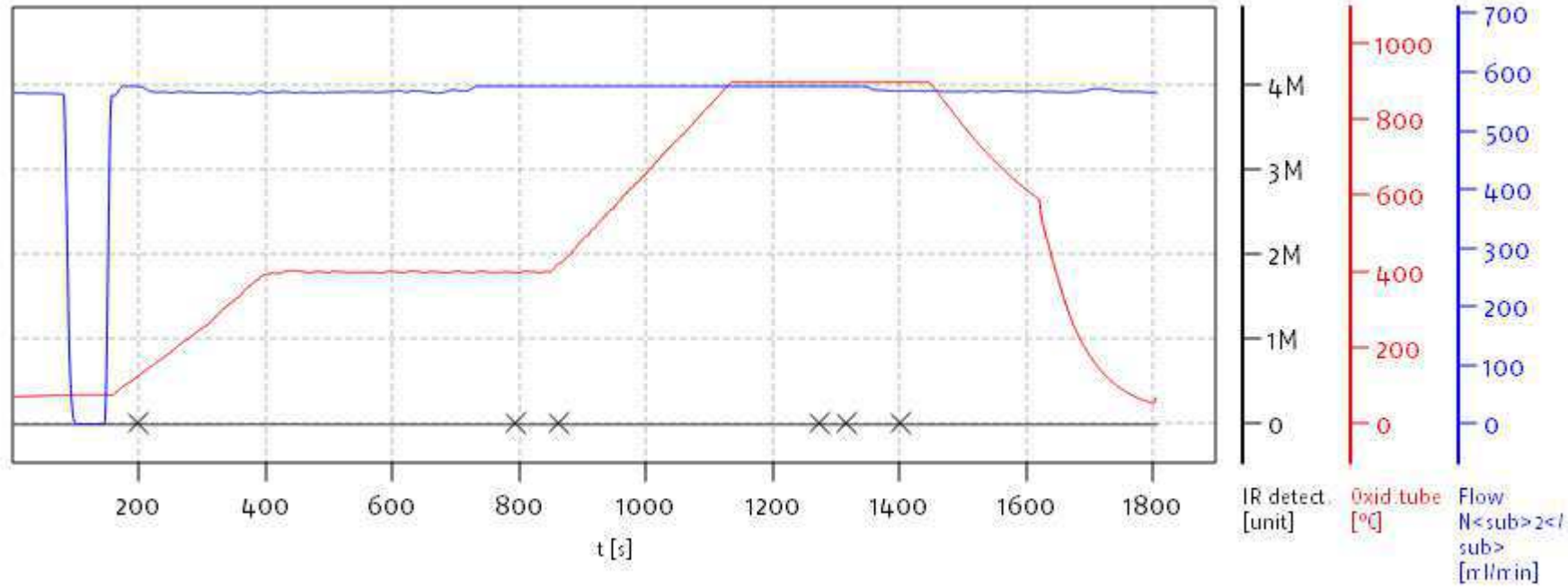
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	12/22/2022 11:14 AM	bl	0.000	7 401	0.000	0.000	297	1 265	0.000	0.000	0.9838	1.0000



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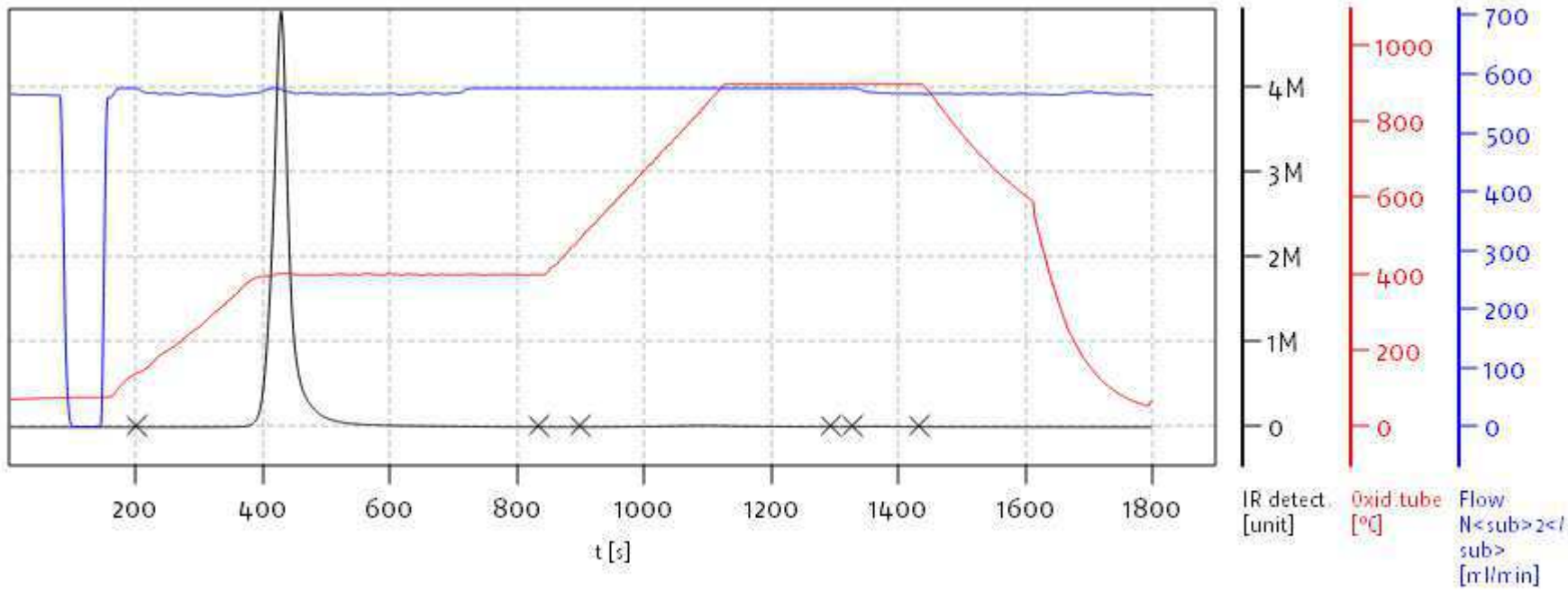
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	20.00		CARBON	12/22/2022 11:45 AM	bl	44.446	5 805 992	45.112	0.000	20 490	112 629	44.446	0.666	0.9936	1.0000



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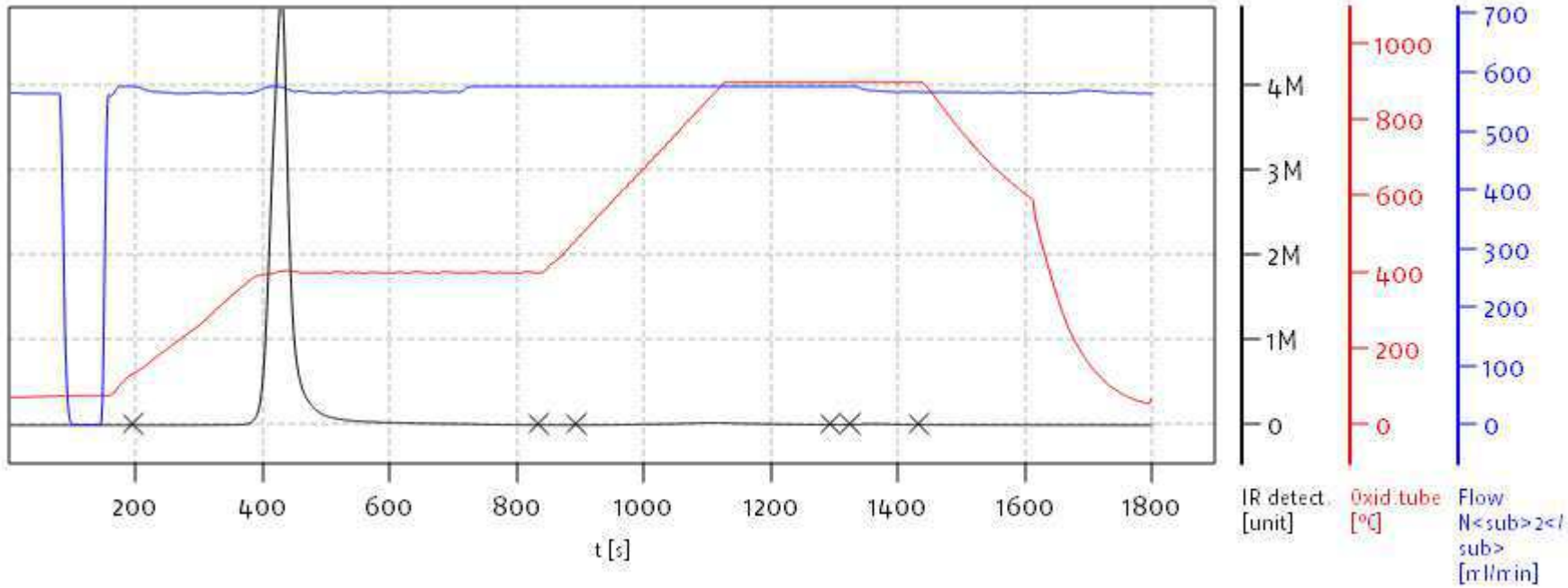
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	22.80		CARBON	12/22/2022 12:15 PM	bl	44.507	6 536 050	45.579	0.062	35 651	184 404	44.446	1.072	1.0056	1.0000



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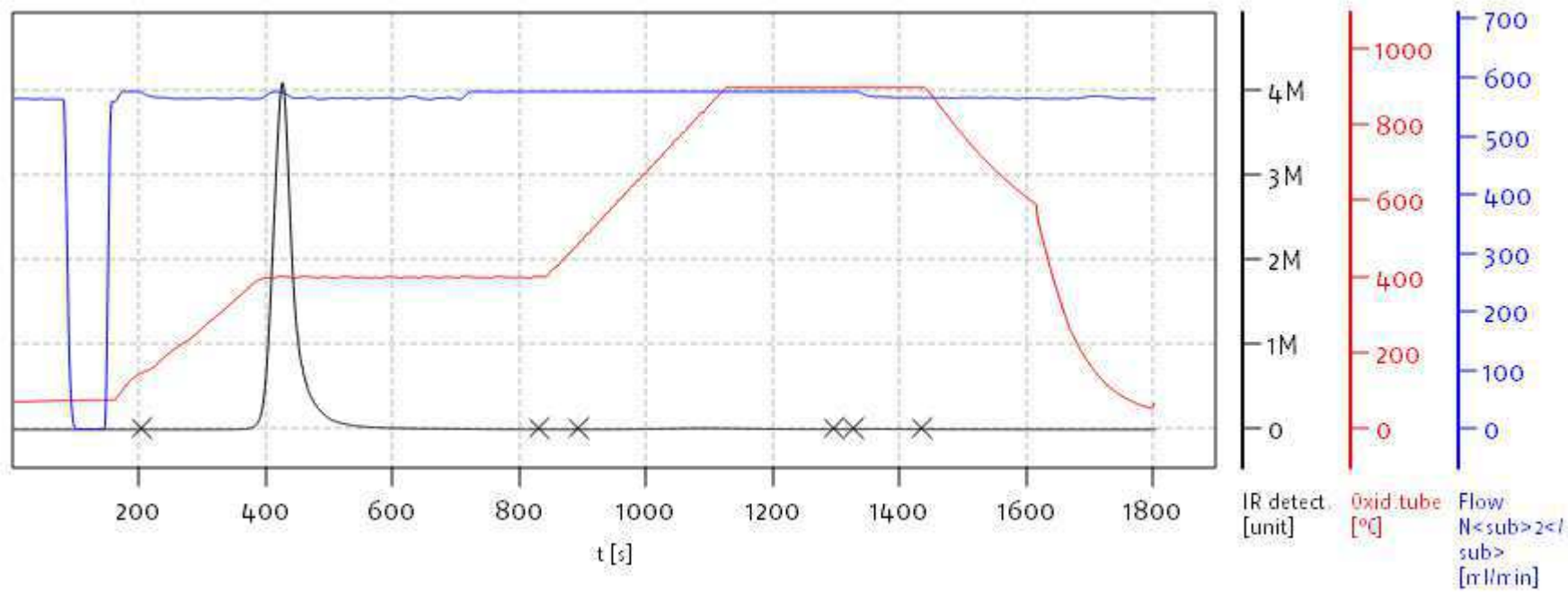
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SKL0276-CCV4	20.30		CARBON	12/22/2022 12:45 PM	bl	44.966	5 925 551	45.558	0.000	18 051	104 166	44.966	0.592	0.9996	1.0000



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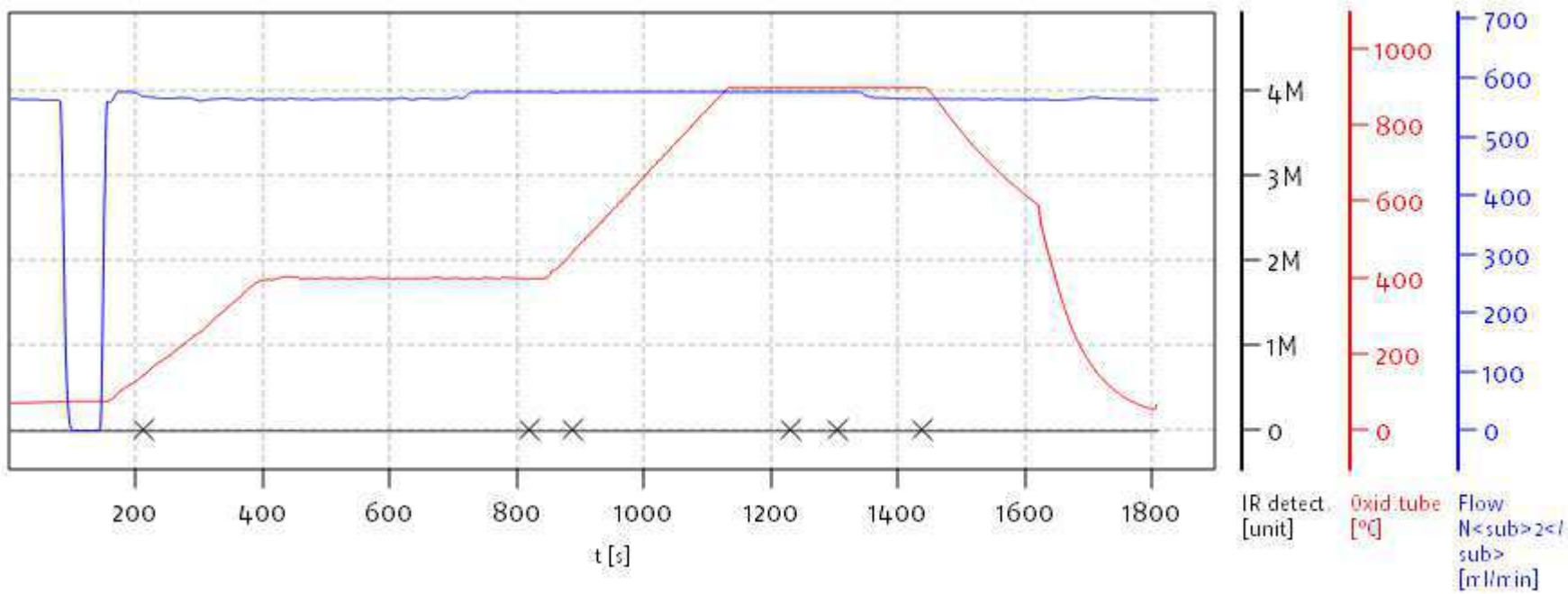
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SKL0276-CCB4	527.60		CARBON	12/22/2022 1:16 PM	bl,C3u,C2u	0.000	8 322	0.000	0.000	941	2 024	0.000	0.000	0.9996	1.0000



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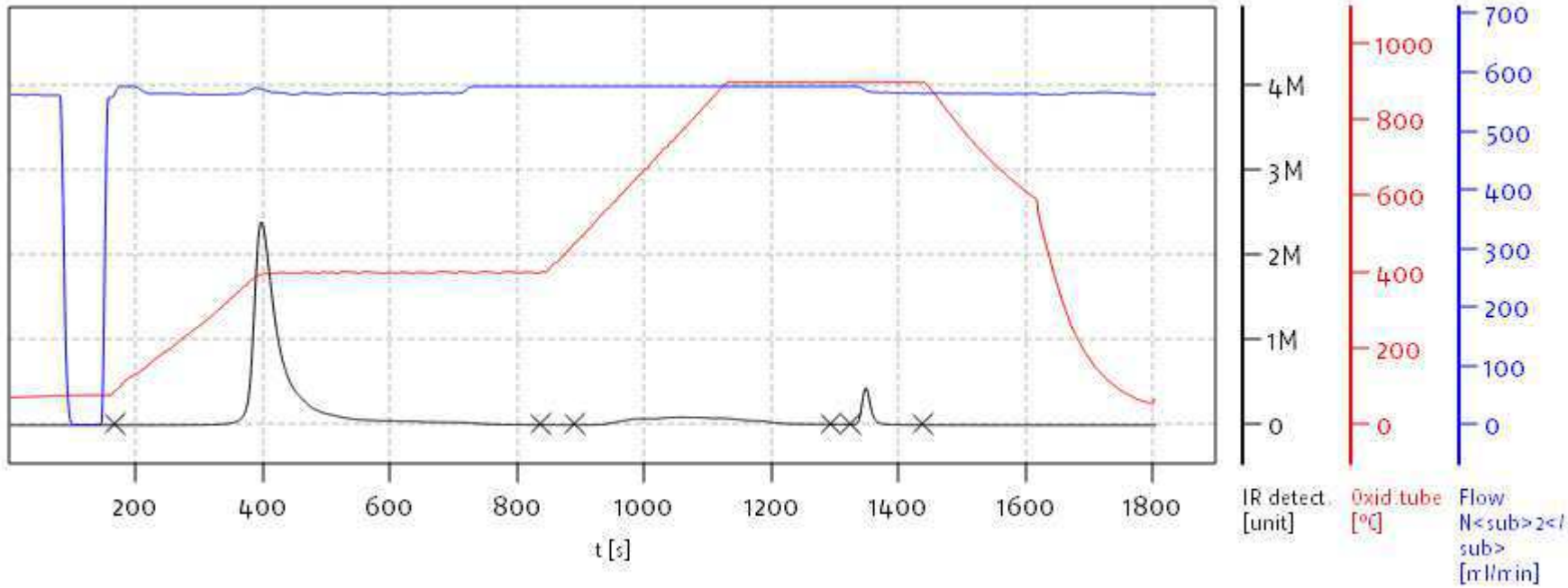
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	22L0199-45	510.10		CARBON	12/22/2022 1:47 PM	bl	1.443	4 534 570	1.661	0.075	273 995	745 779	1.368	0.218	0.9996	1.0000



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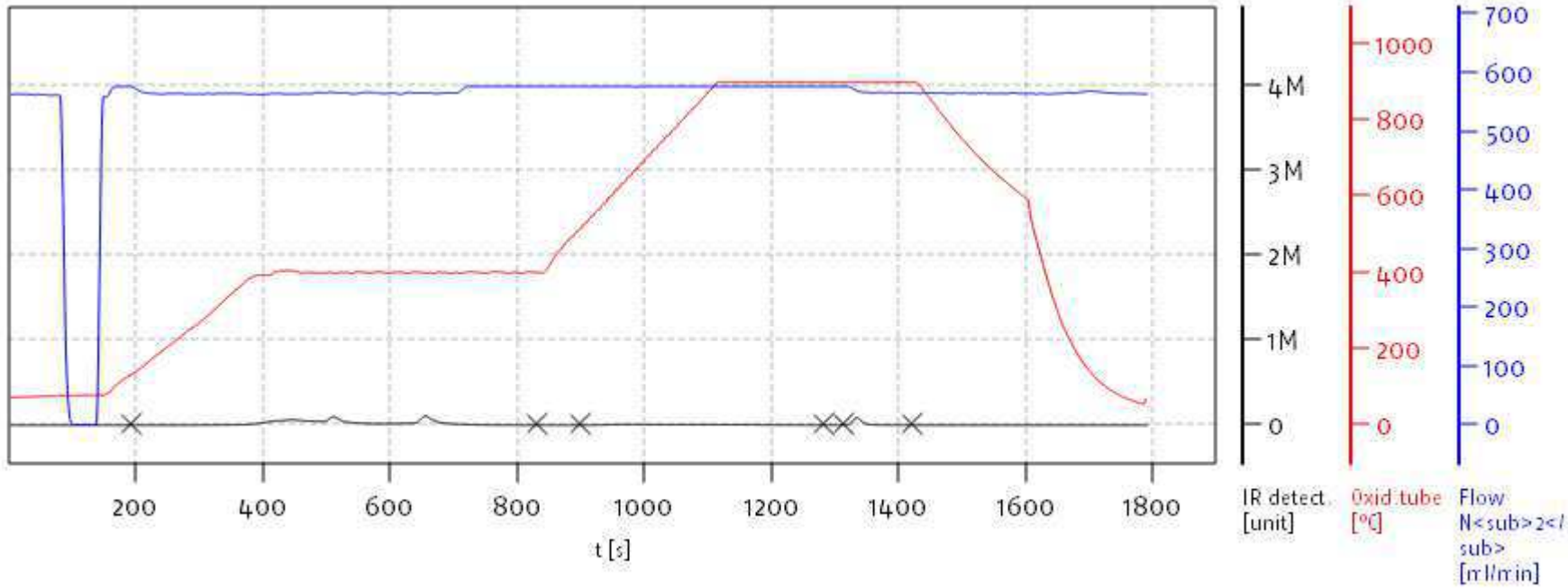
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	22L0199-46	602.50		CARBON	12/22/2022 2:17 PM	bl	0.132	510 331	0.143	0.008	56 353	69 976	0.124	0.011	0.9996	1.0000



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Access: soliTOC superuser

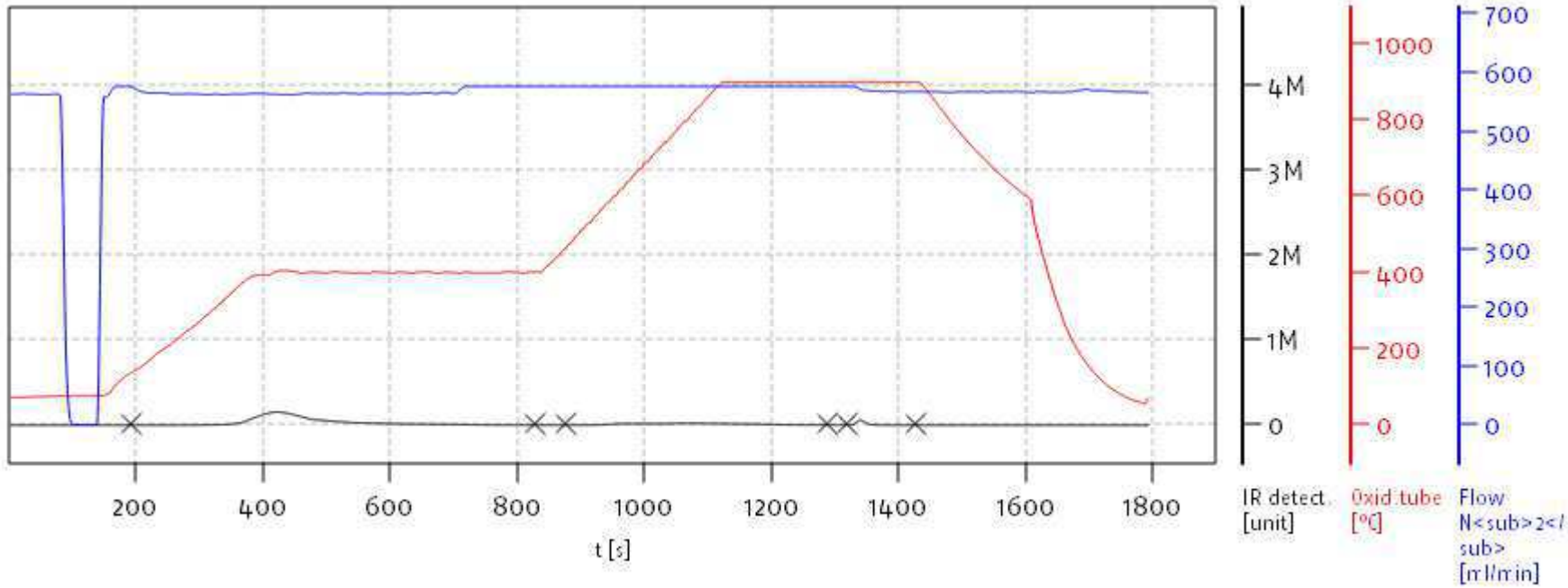
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	22L0199-47	302.40		CARBON	12/22/2022 2:47 PM	bl	0.357	712 208	0.432	0.006	38 095	173 811	0.351	0.075	0.9996	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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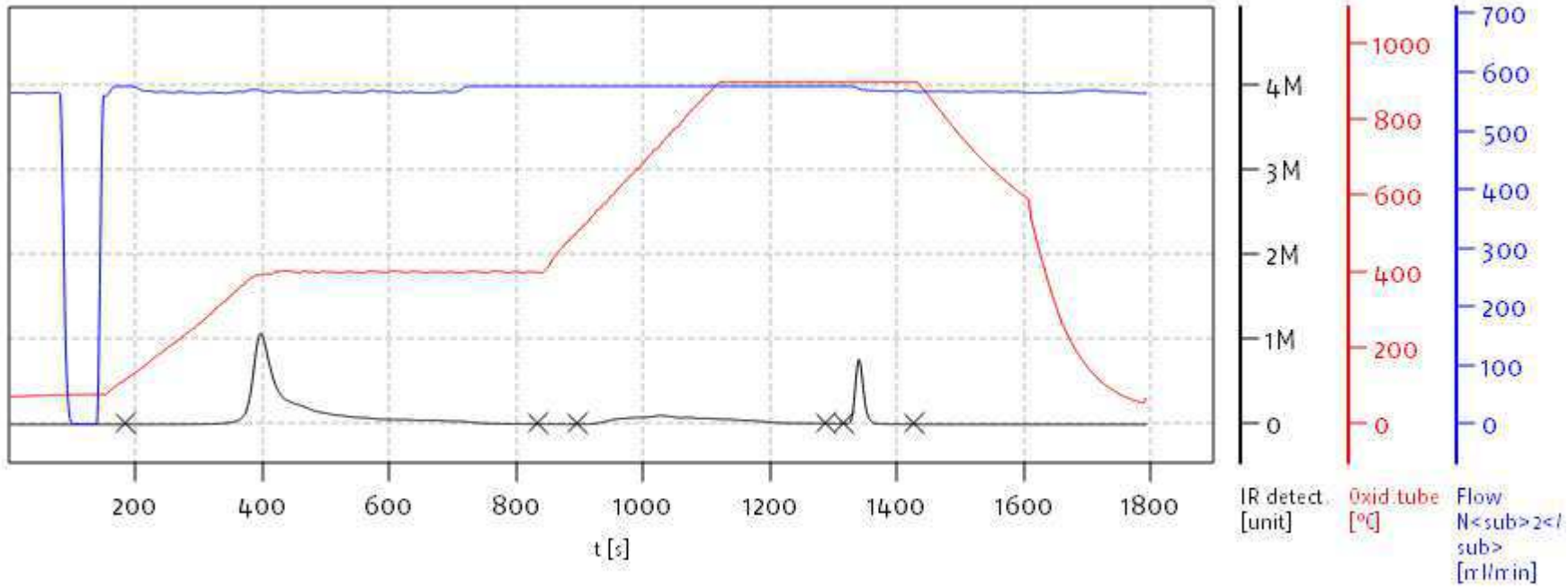
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	22L0199-48	507.40		CARBON	12/22/2022 3:17 PM	bl	0.908	2 582 367	1.124	0.129	448 714	735 089	0.779	0.216	0.9996	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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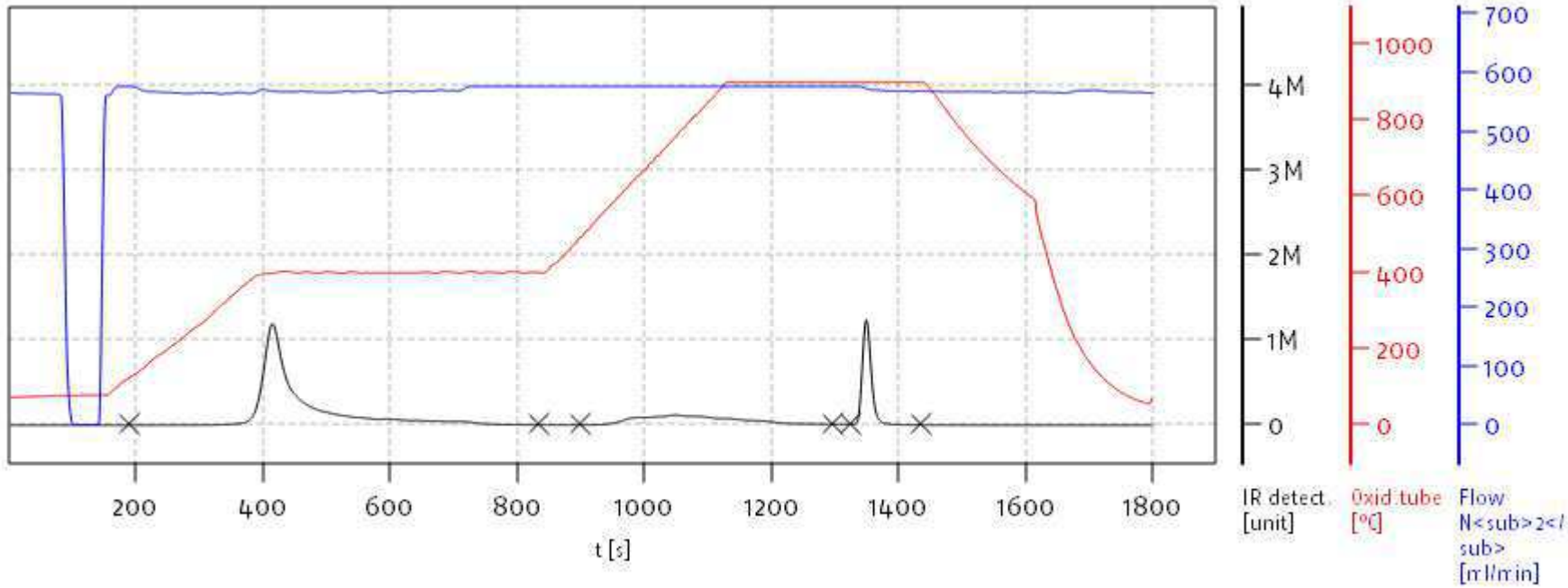
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	22L0199-49	537.10		CARBON	12/22/2022 3:48 PM	bl	1.007	2 778 715	1.242	0.214	770 275	840 546	0.793	0.235	0.9996	1.0000



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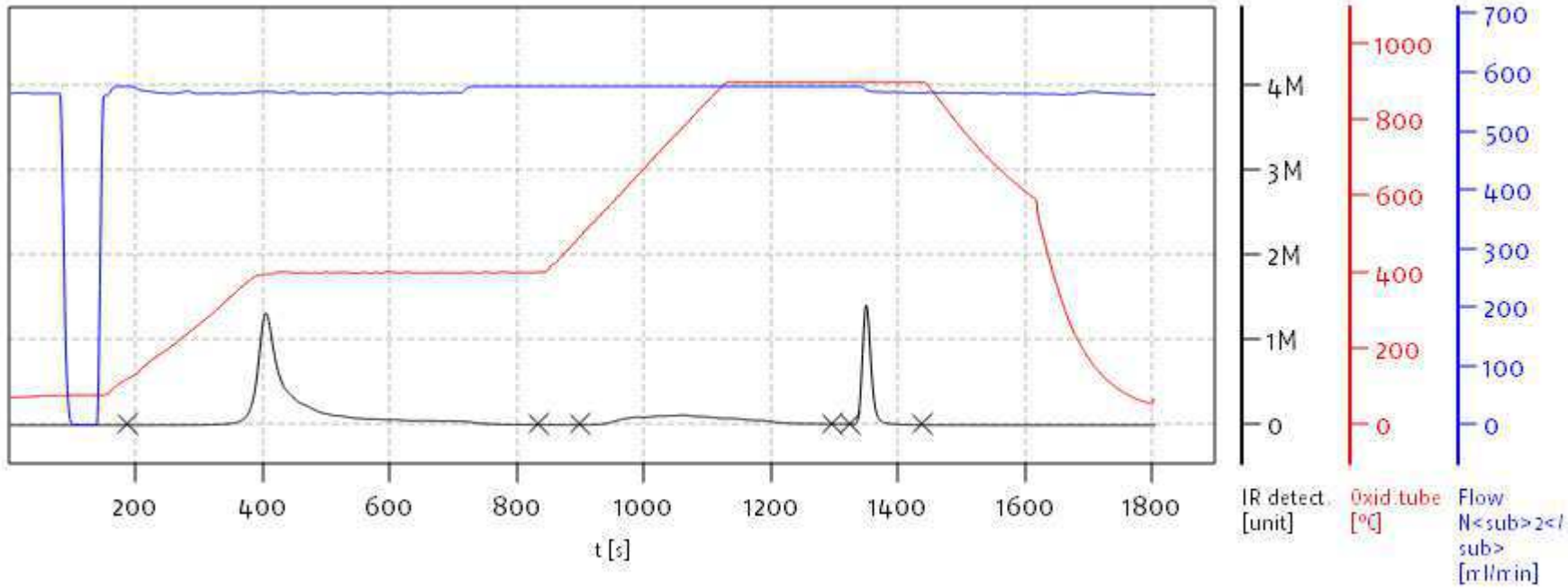
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	22L0199-50	527.50		CARBON	12/22/2022 4:18 PM	bl	1.093	2 918 590	1.351	0.245	860 579	906 592	0.848	0.258	0.9996	1.0000



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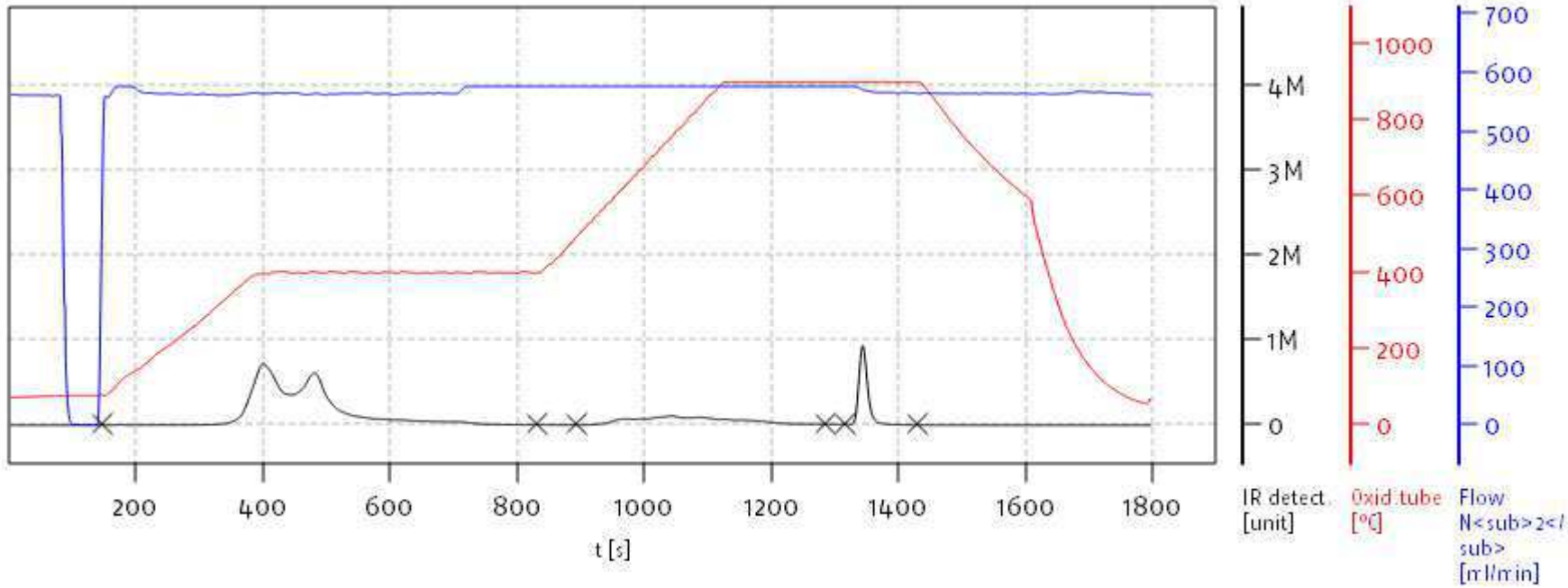
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	22L0199-51	550.30		CARBON	12/22/2022 4:49 PM	bl	1.042	3 183 880	1.251	0.154	574 696	770 032	0.888	0.209	0.9996	1.0000



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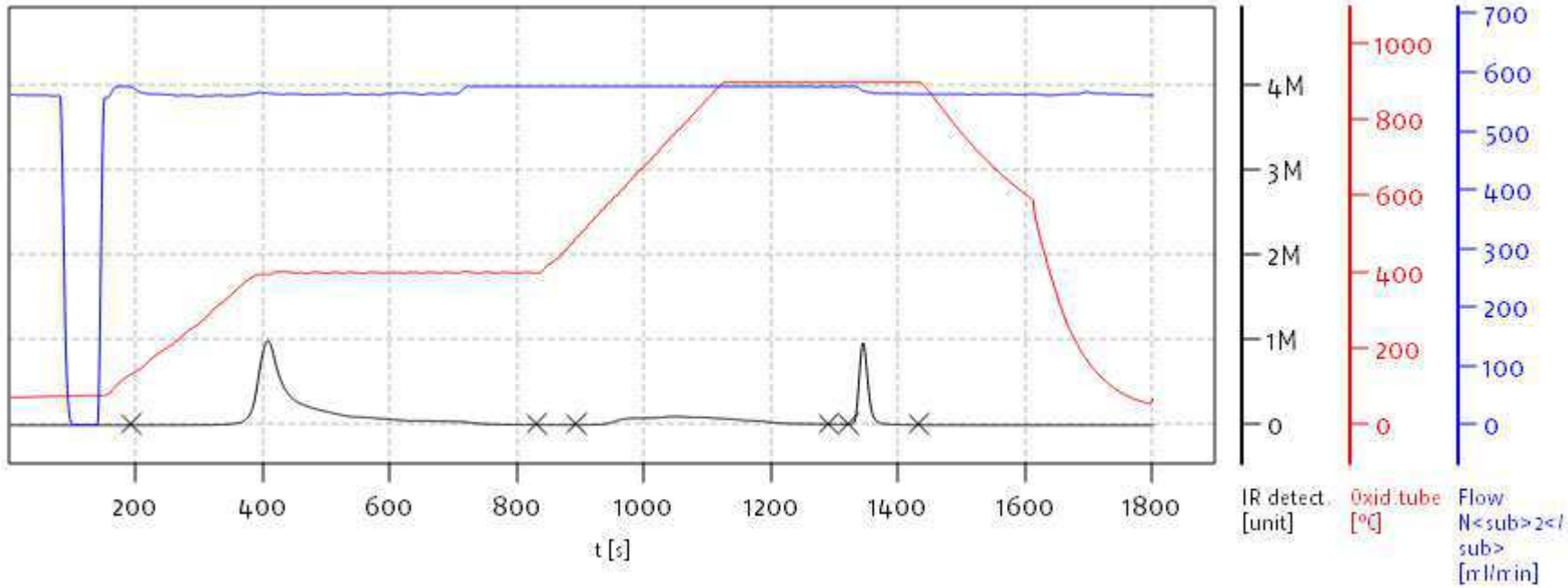
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	22L0199-52	538.90		CARBON	12/22/2022 5:19 PM	bl	0.920	2 651 555	1.142	0.166	604 581	800 715	0.754	0.222	0.9996	1.0000



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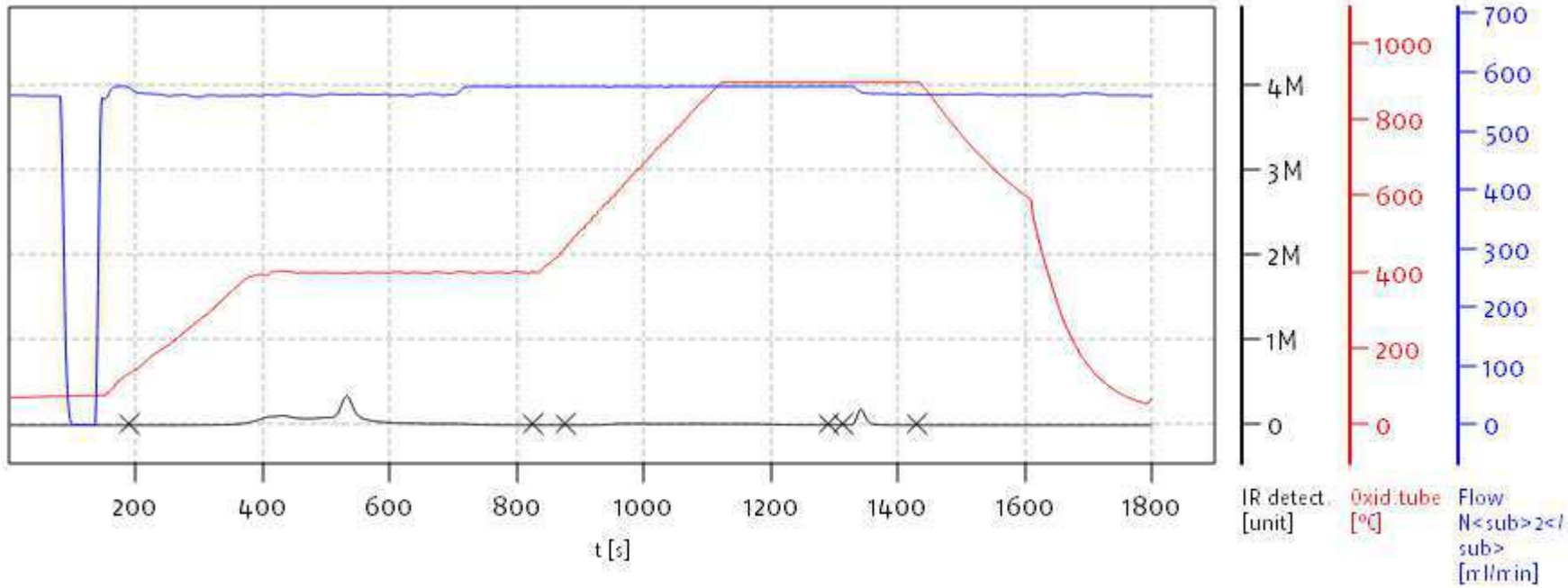
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	22L0199-53	505.60		CARBON	12/22/2022 5:49 PM	bl	0.316	969 765	0.356	0.027	114 142	159 526	0.289	0.041	0.9996	1.0000



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Mode CCC

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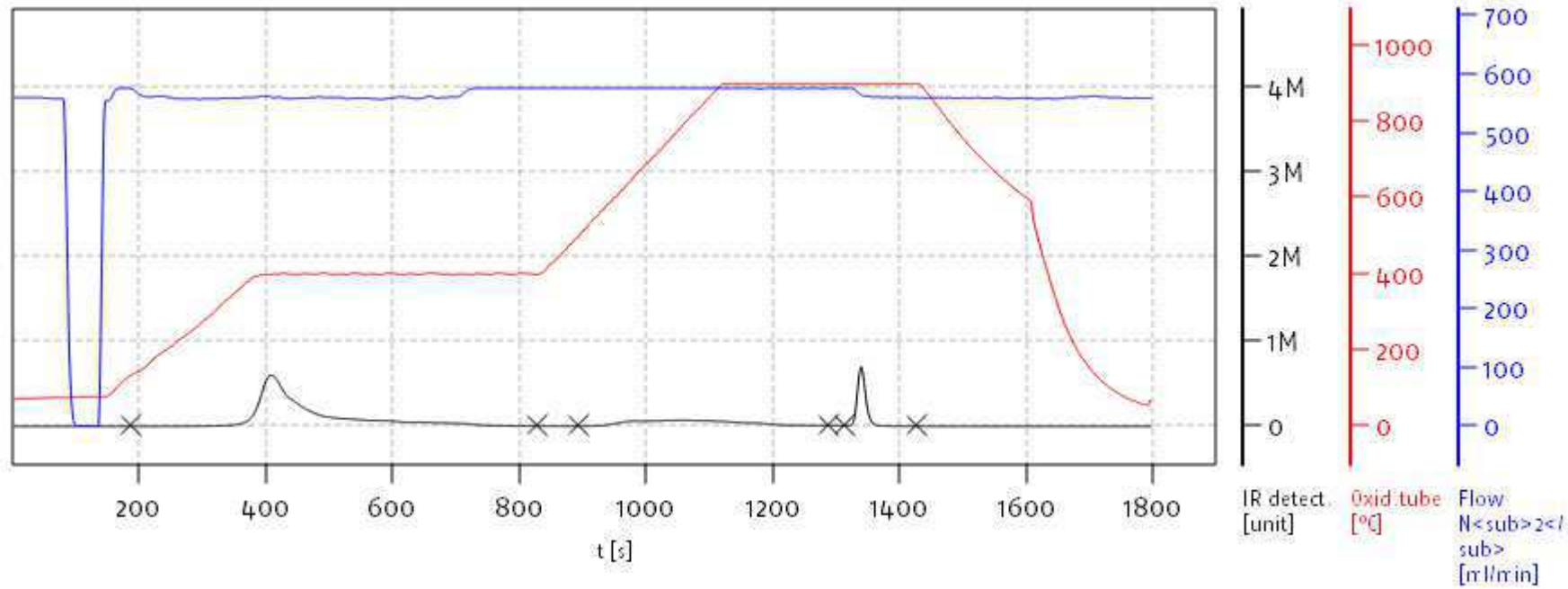
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	22L0199-54	517.70		CARBON	12/22/2022 6:20 PM	bl	0.708	2 010 073	0.877	0.115	411 359	591 885	0.593	0.169	0.9996	1.0000



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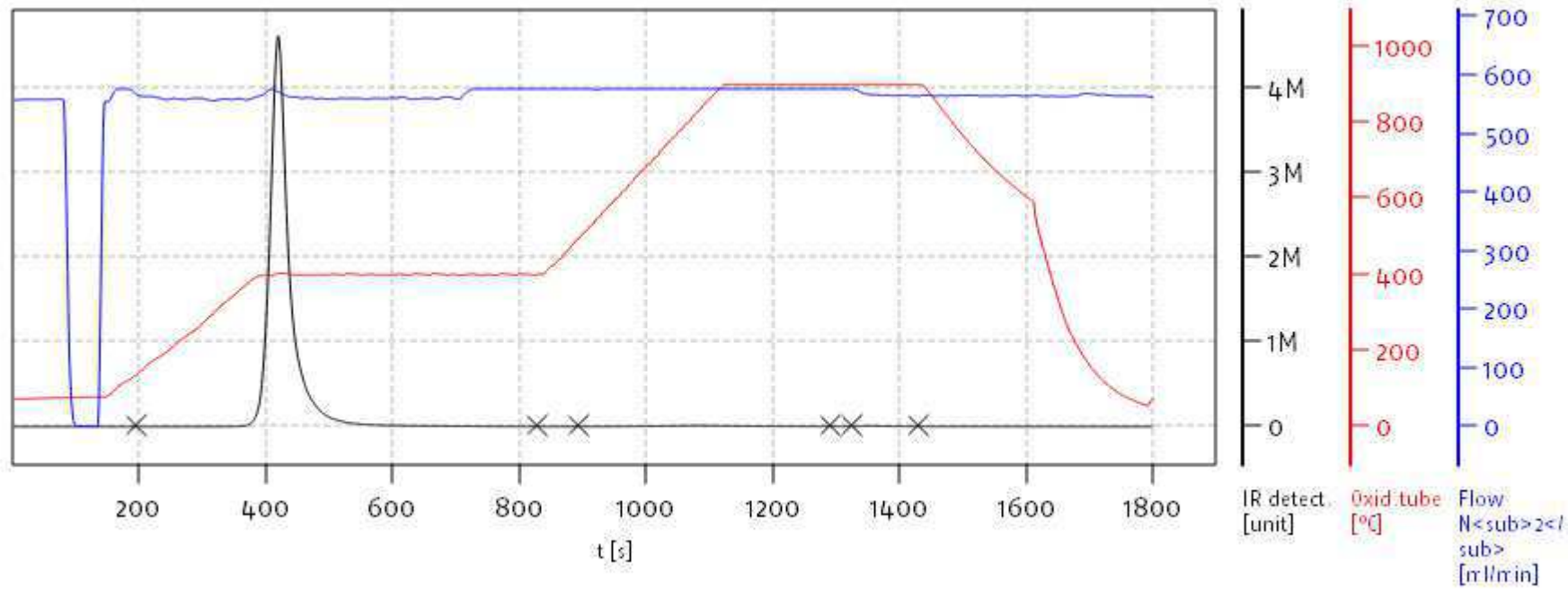
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SKL0276-CCV5	21.10		CARBON	12/22/2022 6:50 PM	bl	45.344	6 209 574	45.753	0.000	20 520	82 331	45.344	0.409	0.9996	1.0000



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EXCELLENCE IN ELEMENTS

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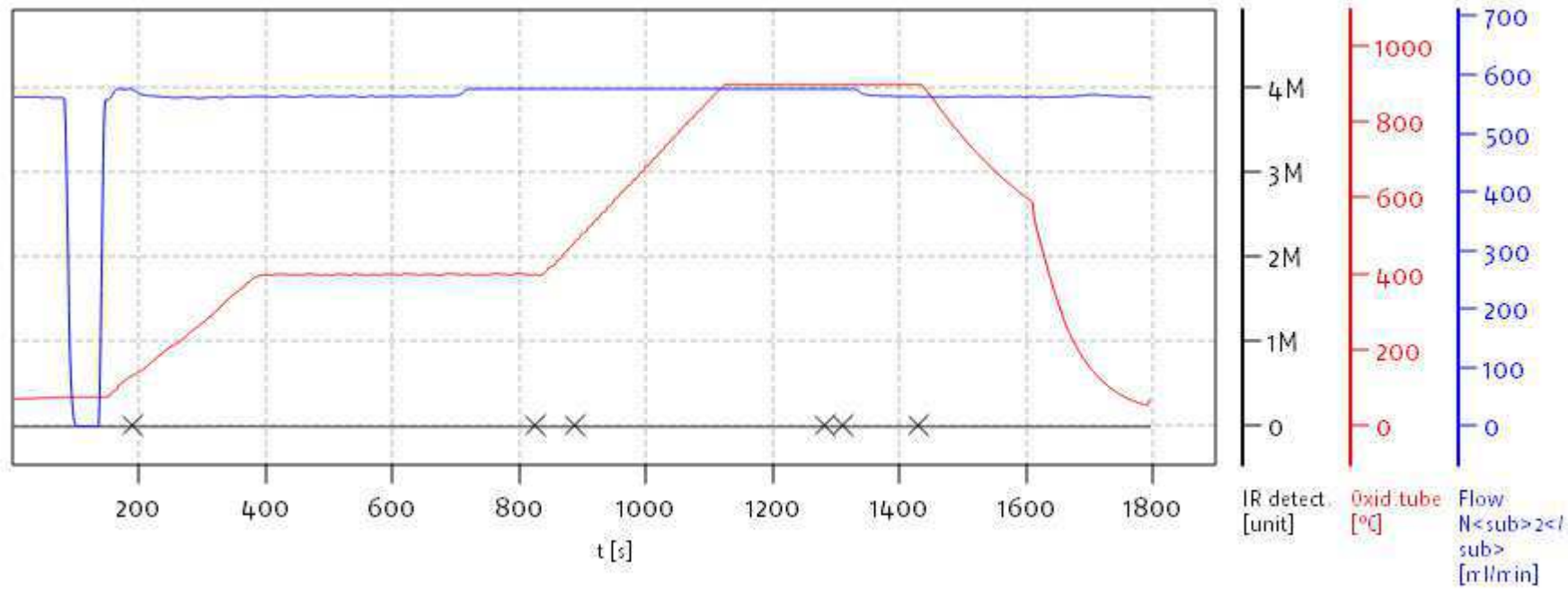
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SKL0276-CCB5	528.80		CARBON	12/22/2022 7:20 PM	bl,C3u,C2u	0.000	8 917	0.000	0.000	485	1 751	0.000	0.000	0.9996	1.0000



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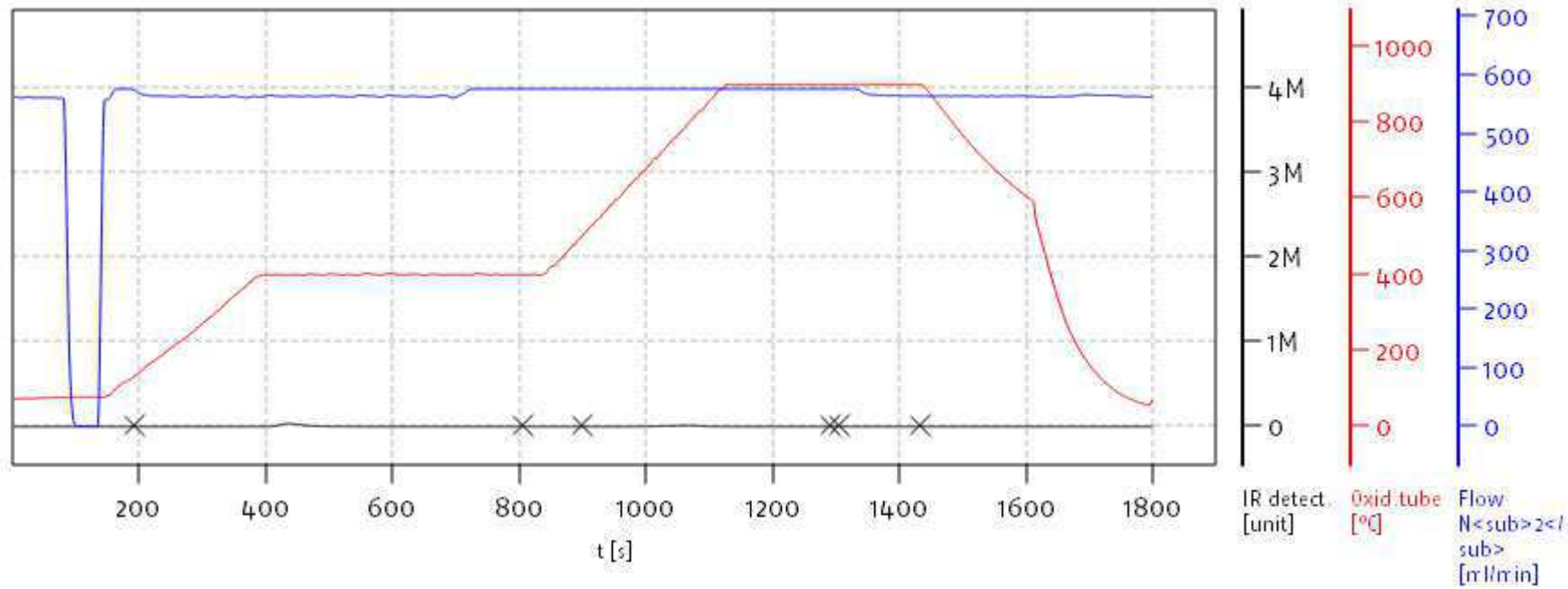
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	BKL0501-MRL1	503.50		CARBON	12/22/2022 7:51 PM	bl,C2u	0.011	63 184	0.014	0.000	573	34 164	0.011	0.002	0.9996	1.0000



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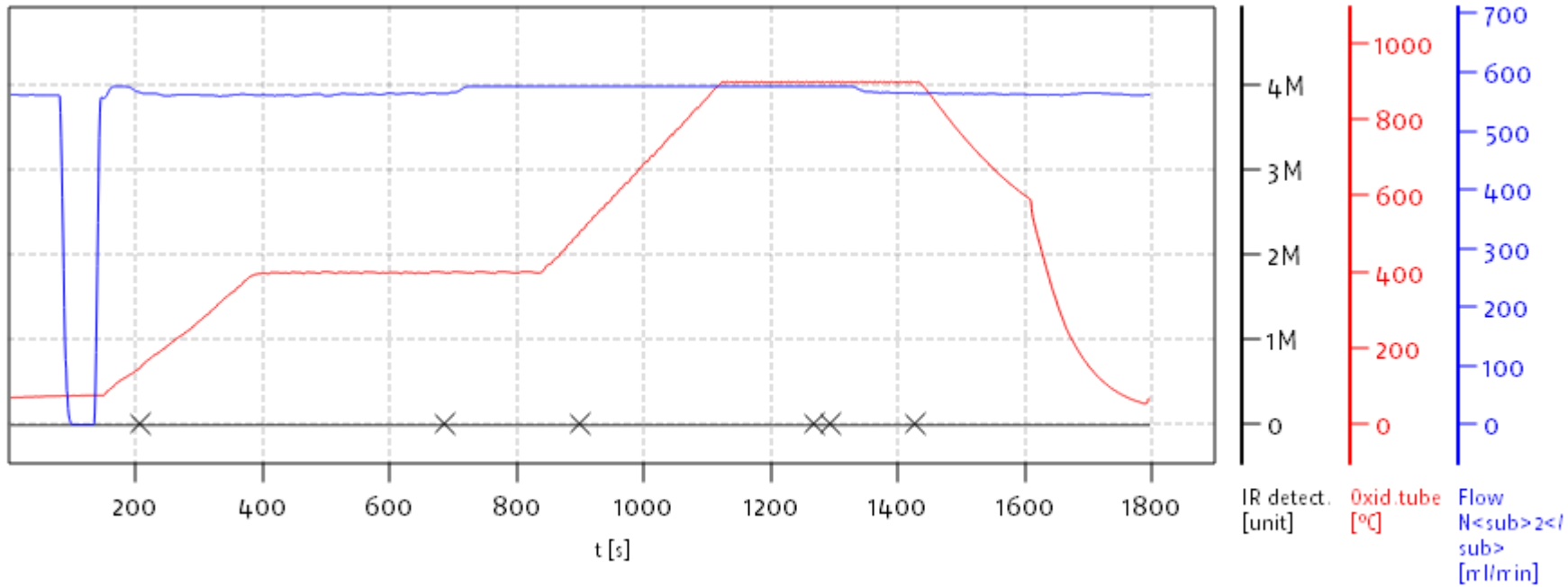
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	BKL0501-BLK1	501.10		CARBON	12/22/2022 8:21 PM	bl,C3u,C2u	0.000	4 872	0.000	0.000	402	1 255	0.000	0.000	0.9996	1.0000



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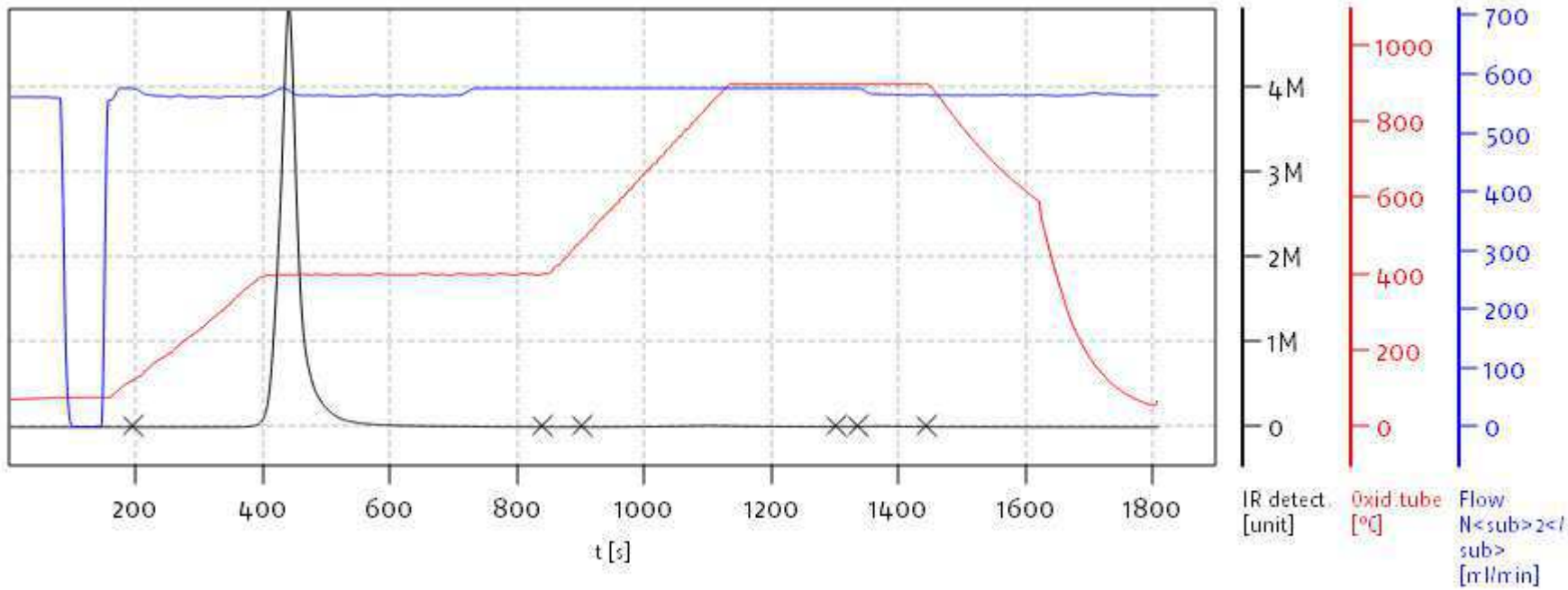
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	BKL0501-BS1	22.60		CARBON	12/22/2022 8:52 PM	bl	44.840	6 575 465	45.406	0.000	25 521	109 267	44.840	0.567	0.9996	1.0000



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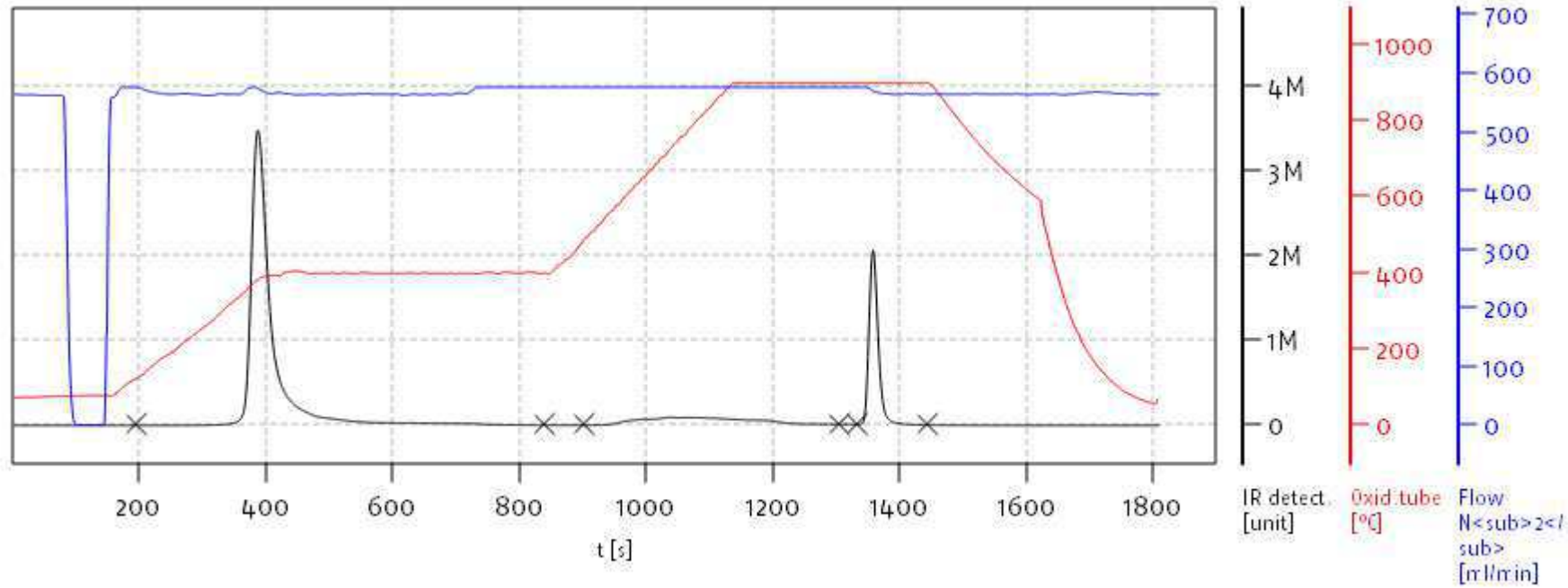
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	BKL0501-SRM1	314.00		CARBON	12/22/2022 9:22 PM	bl	2.979	4 771 926	3.351	0.640	1 324 796	782 089	2.339	0.372	0.9996	1.0000



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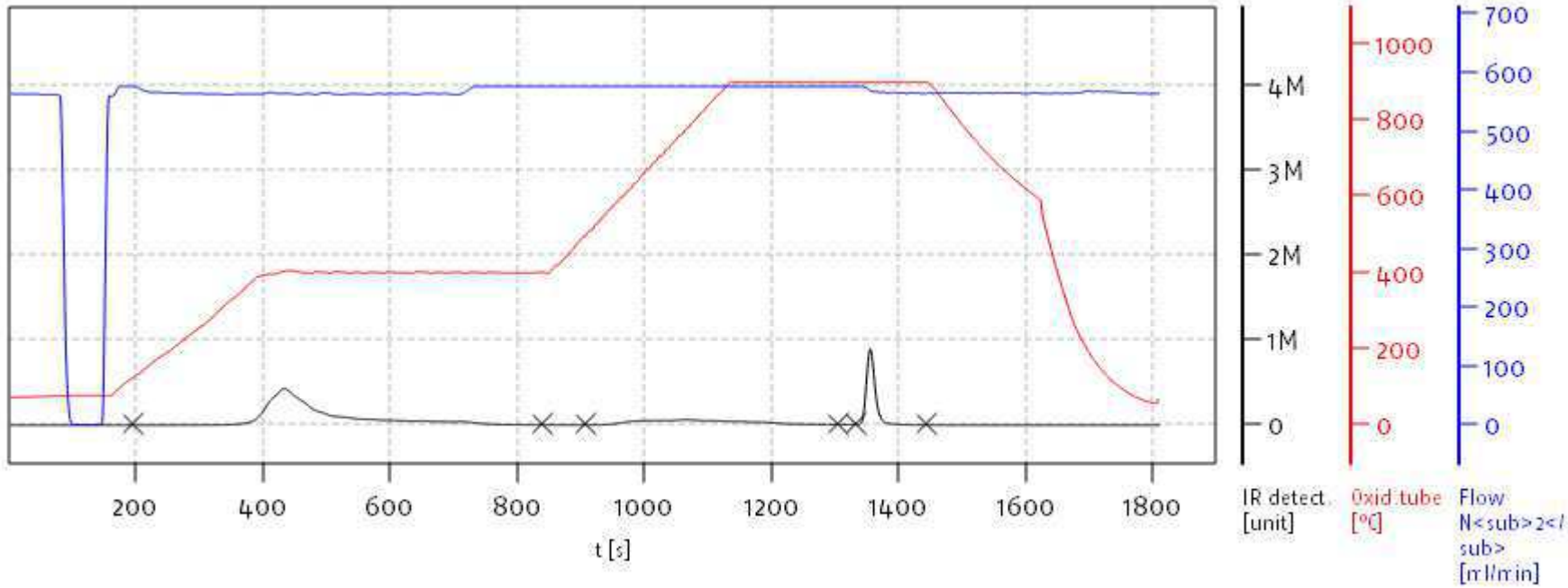
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	22L0199-55	503.70		CARBON	12/22/2022 9:53 PM	bl	0.676	1 709 982	0.820	0.159	543 812	495 385	0.517	0.144	0.9996	1.0000



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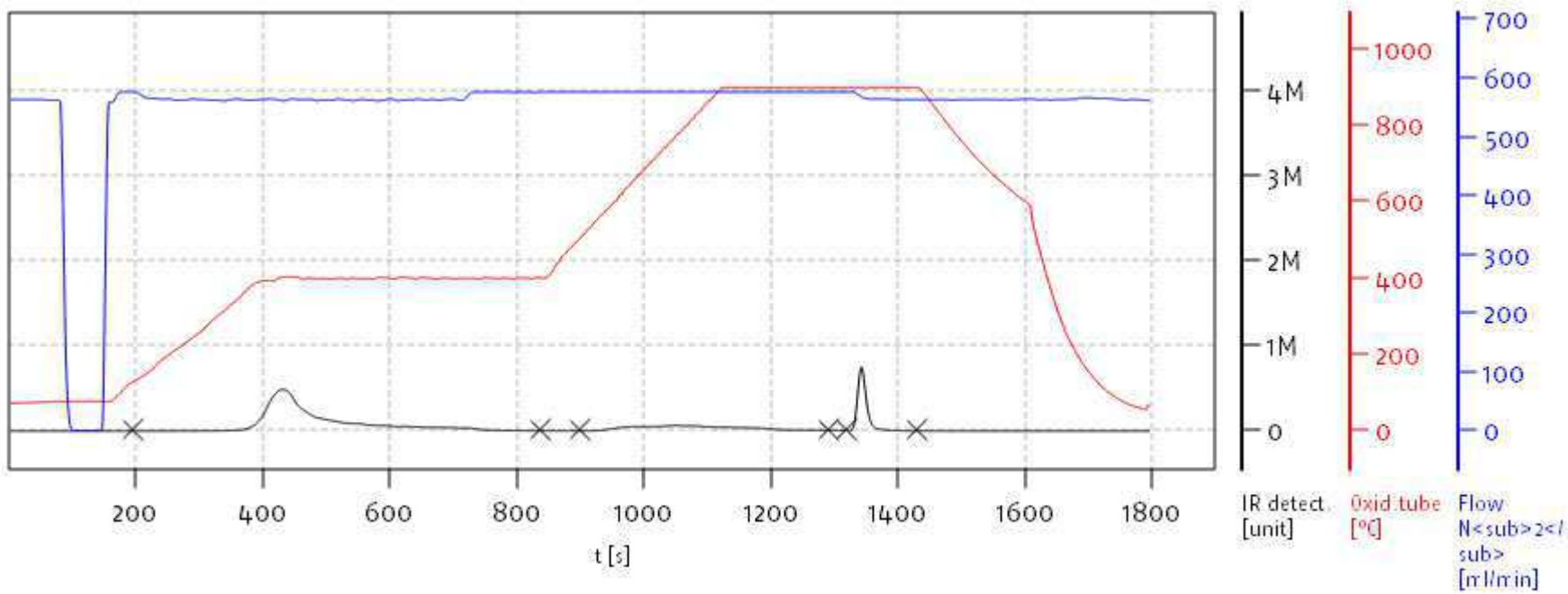
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	BKL0501-DUP1	520.10		CARBON	12/22/2022 10:23 PM	bl	0.663	1 815 300	0.805	0.130	464 549	504 797	0.532	0.142	0.9996	1.0000



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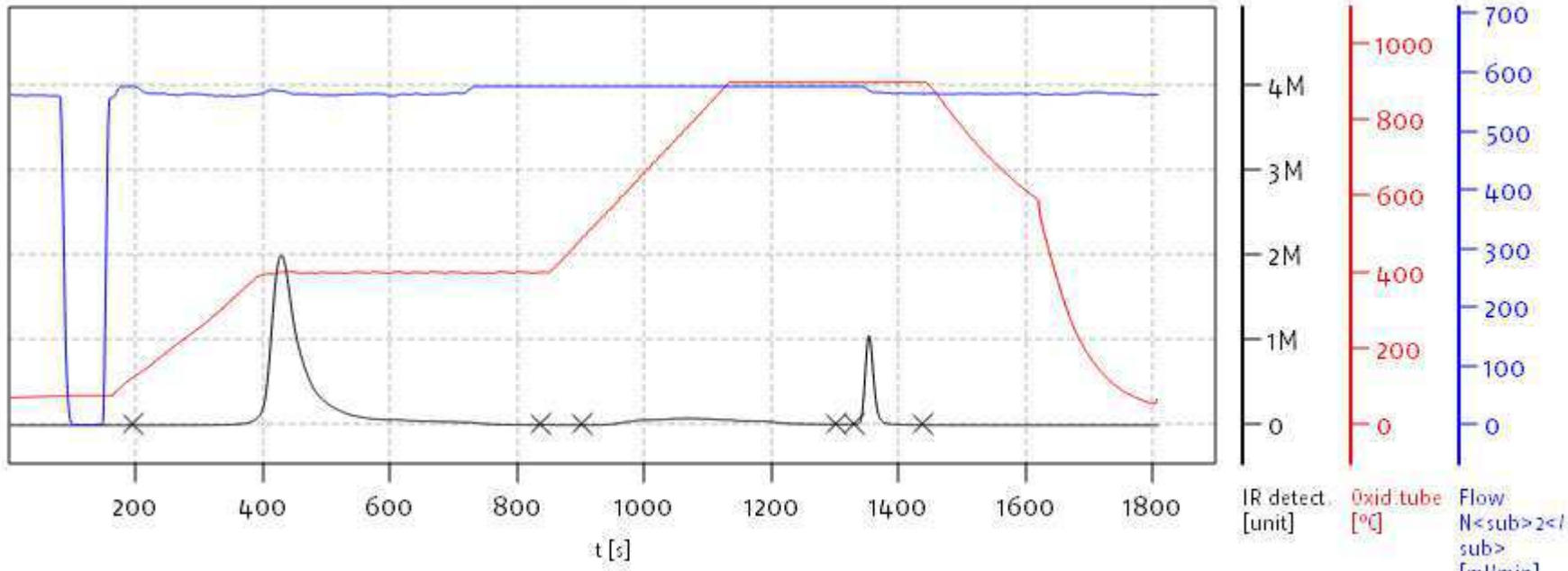
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	BKL0501-MS1	539.20	0.0087	CARBON	12/22/2022 10:54 PM	bl	1.443	4 445 127	1.618	0.175	636 167	634 316	1.268	0.174	0.9996	1.0000



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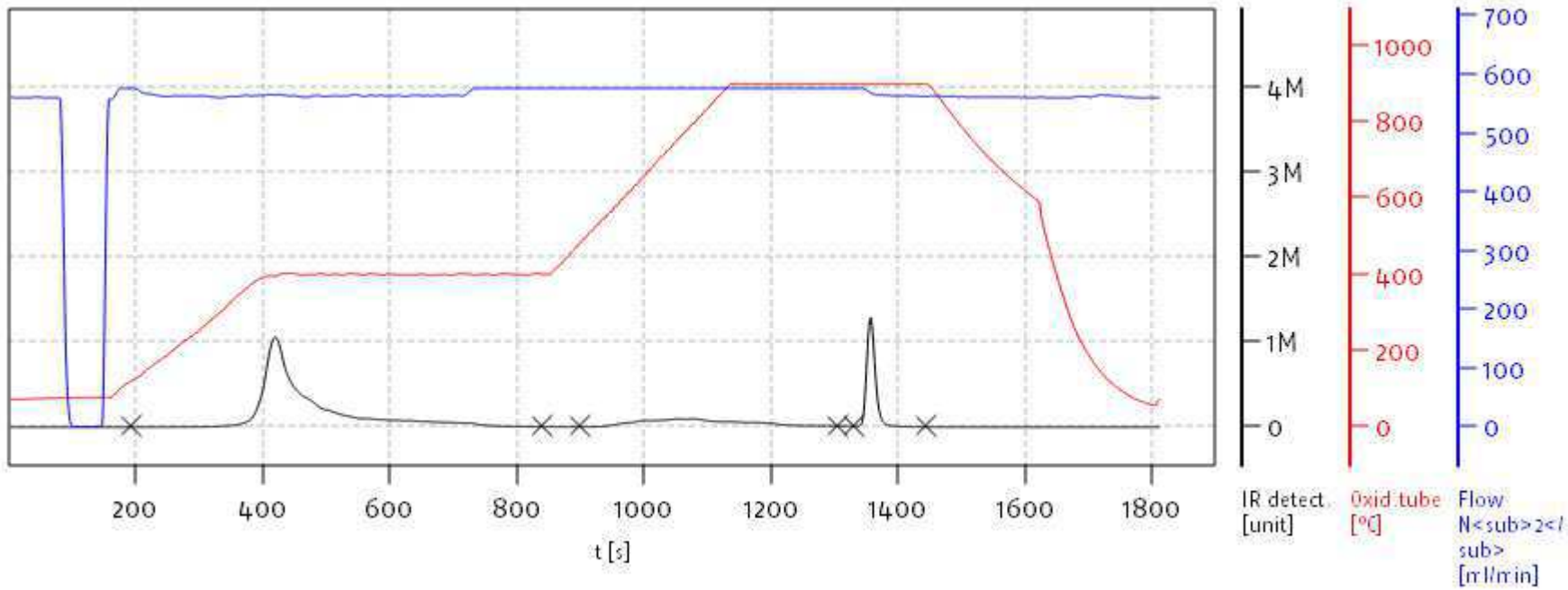
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	22L0199-56	596.10		CARBON	12/22/2022 11:24 PM	bl	0.988	3 083 652	1.172	0.194	773 780	736 554	0.794	0.184	0.9996	1.0000



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Balance: BAL3
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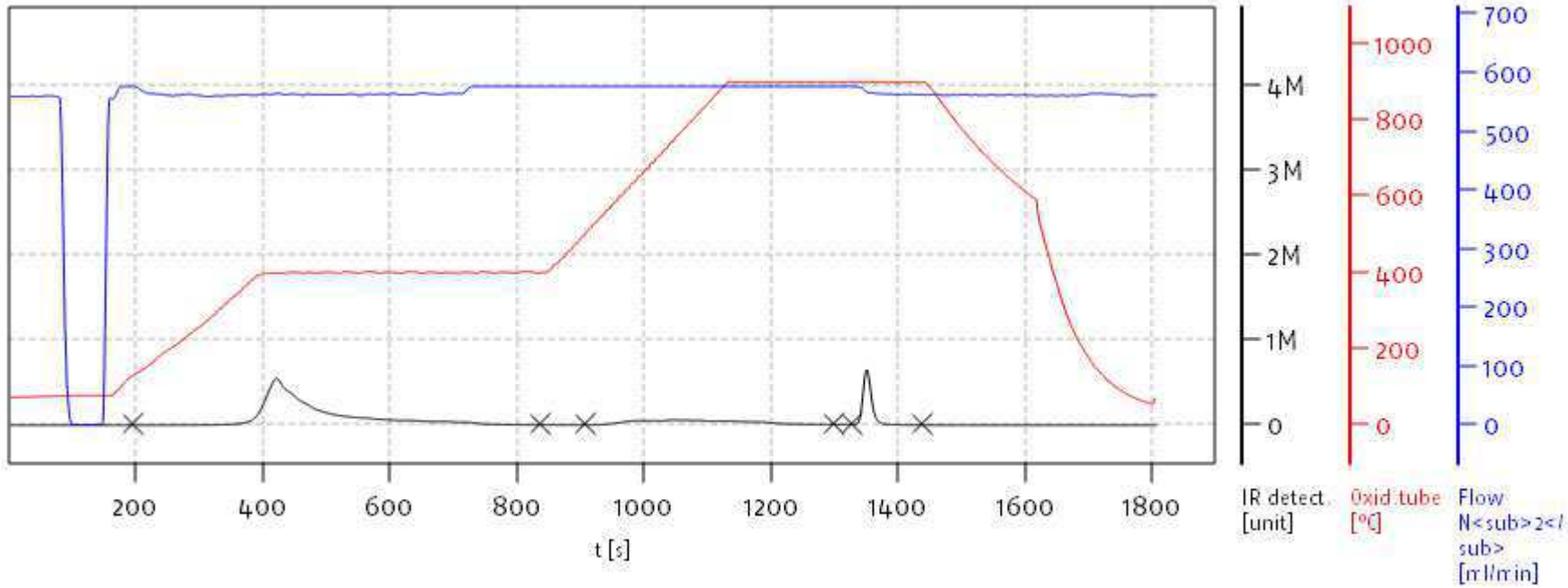
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	22L0199-57	521.20		CARBON	12/22/2022 11:55 PM	bl	0.681	1 957 472	0.821	0.108	389 070	498 307	0.573	0.140	0.9996	1.0000



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Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

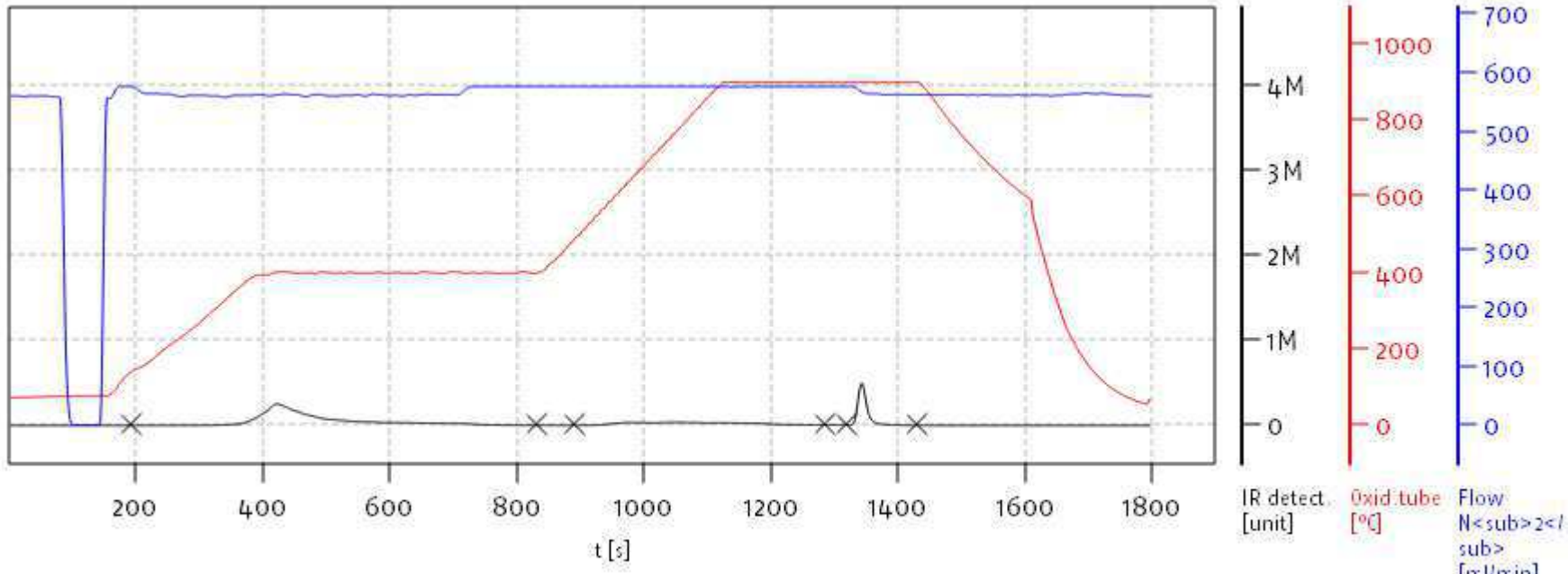
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	22L0199-58	504.80		CARBON	12/23/2022 12:25 AM	bl	0.405	1 059 723	0.495	0.088	313 084	322 711	0.317	0.091	0.9996	1.0000



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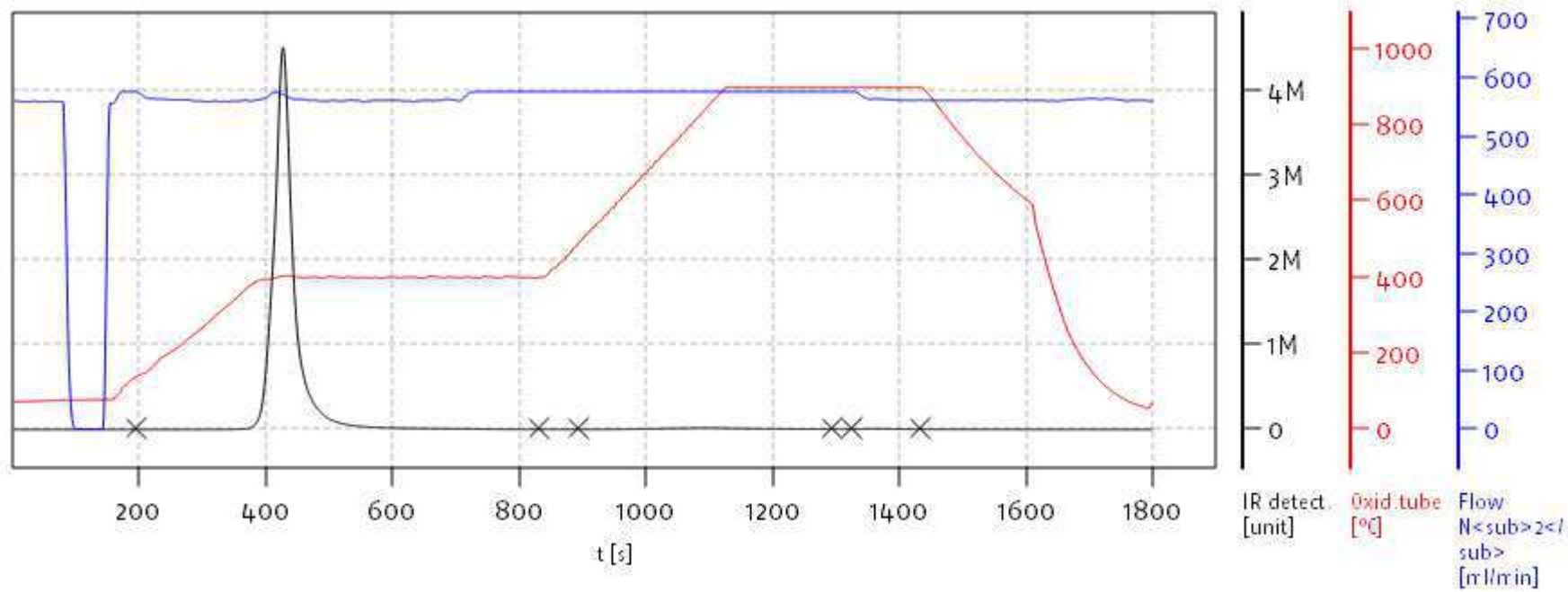
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SKL0276-CCV6	21.50		CARBON	12/23/2022 12:56 AM	bl	44.059	6 148 214	44.811	0.000	24 213	131 049	44.059	0.753	0.9996	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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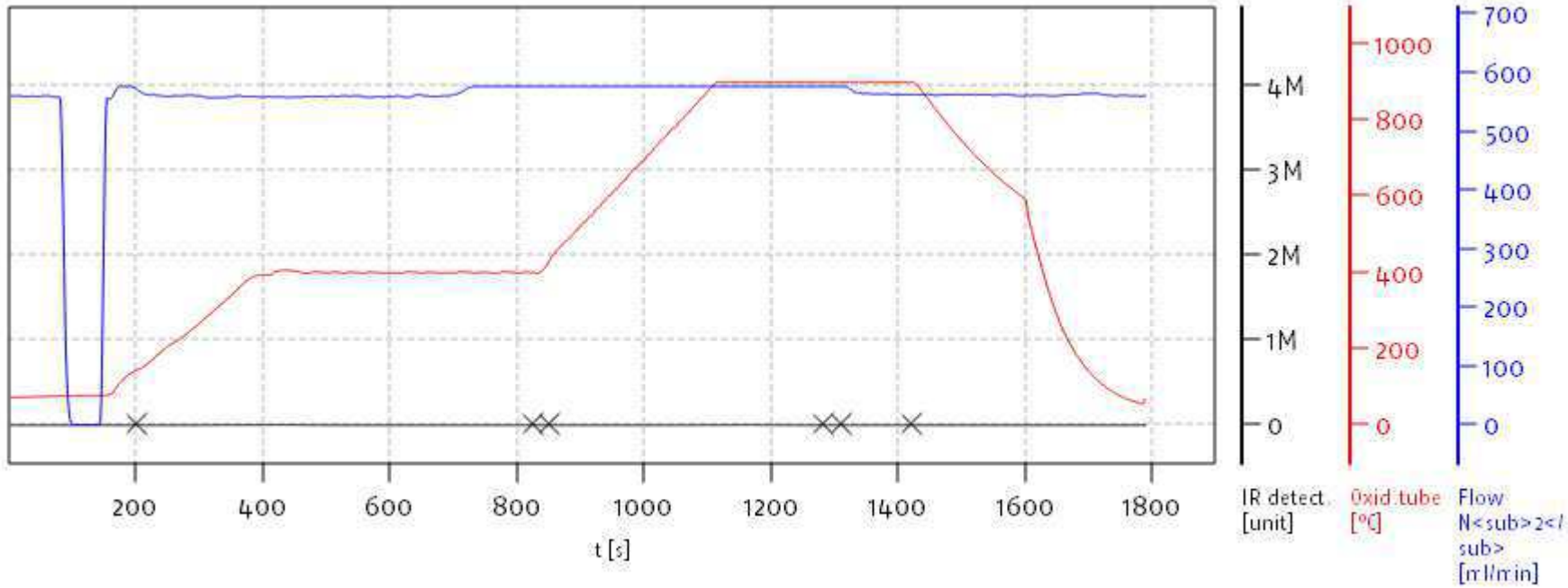
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SKL0276-CCB6	523.30		CARBON	12/23/2022 1:26 AM	bl,C2u	0.000	19 233	0.000	0.000	573	12 827	0.000	0.000	0.9996	1.0000



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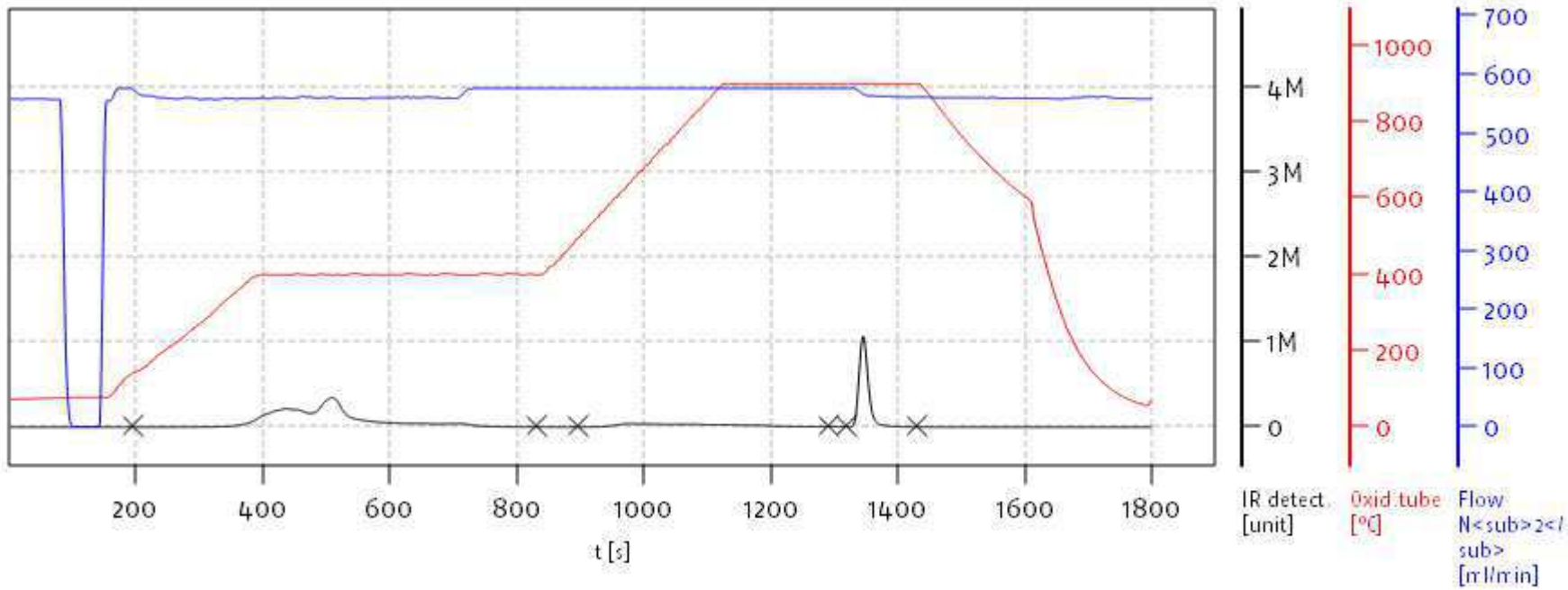
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	22L0199-59	523.90		CARBON	12/23/2022 1:56 AM	bl	0.661	1 603 012	0.744	0.195	687 000	307 230	0.466	0.083	0.9996	1.0000



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Balance: BAL3
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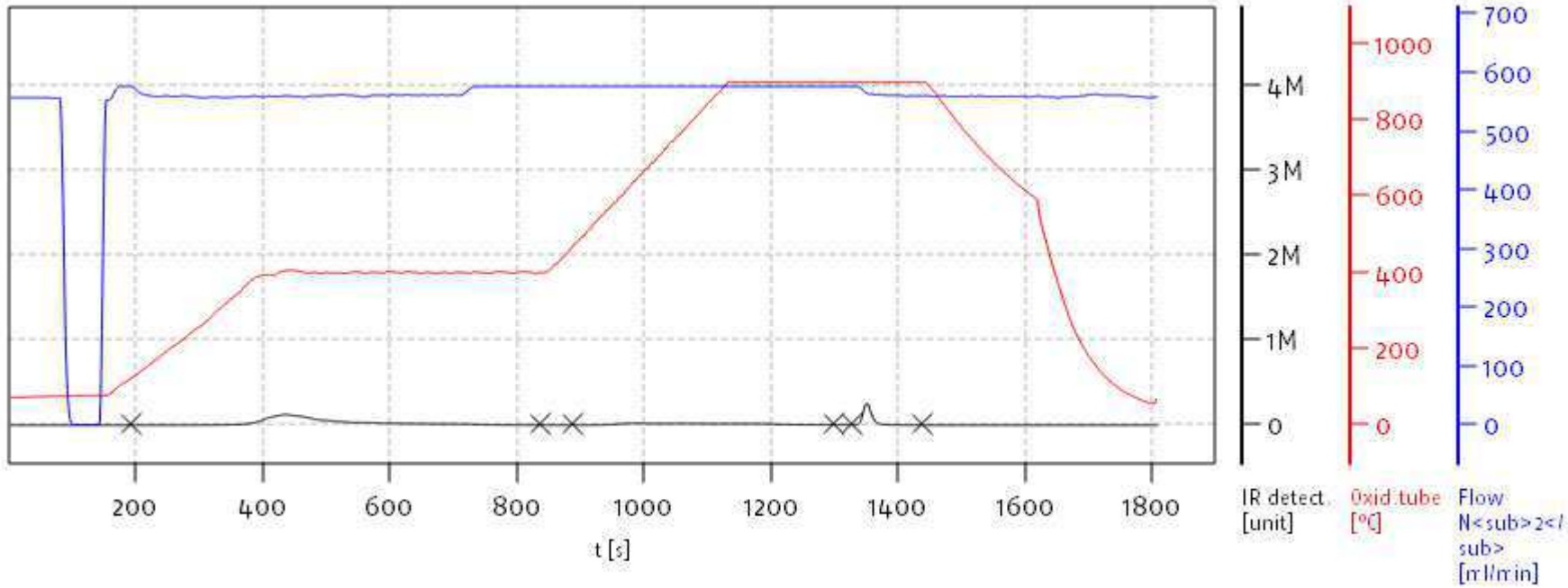
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	22L0199-60	520.90		CARBON	12/23/2022 2:27 AM	bl	0.214	615 163	0.264	0.039	157 028	194 719	0.175	0.050	0.9996	1.0000



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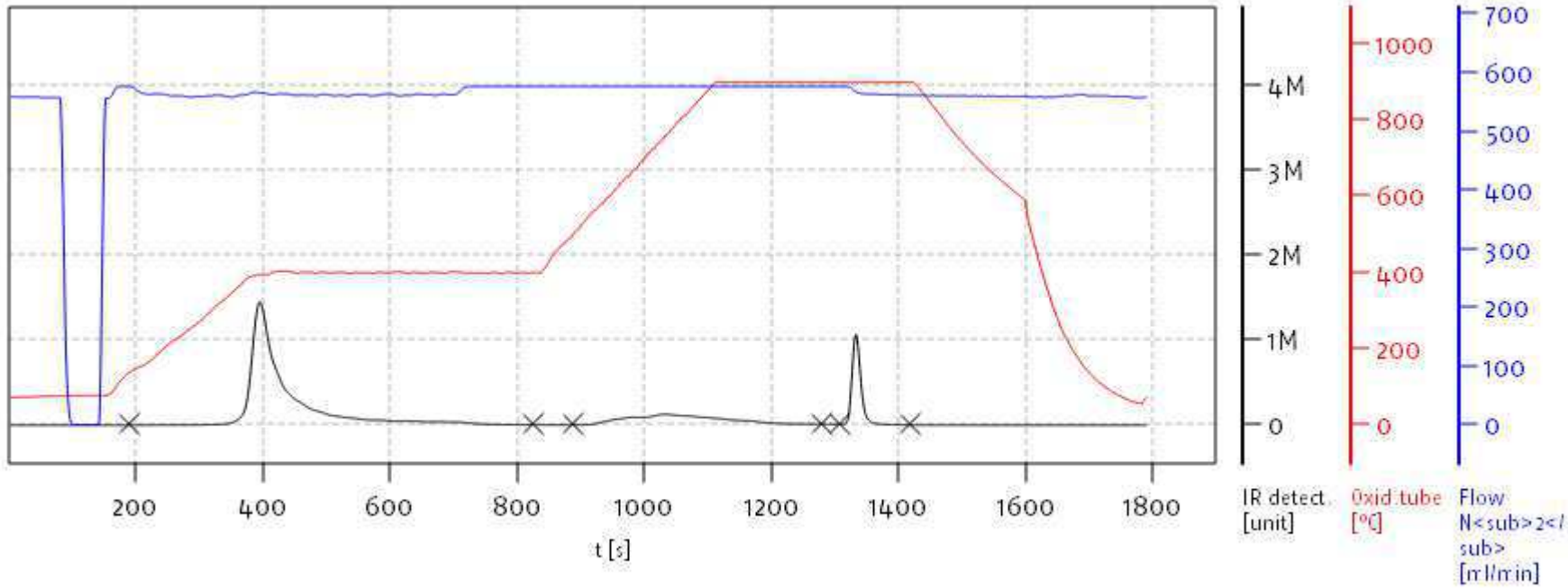
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	22L0199-61	512.60		CARBON	12/23/2022 2:57 AM	bl	1.155	3 222 442	1.411	0.190	656 662	874 918	0.965	0.256	0.9996	1.0000



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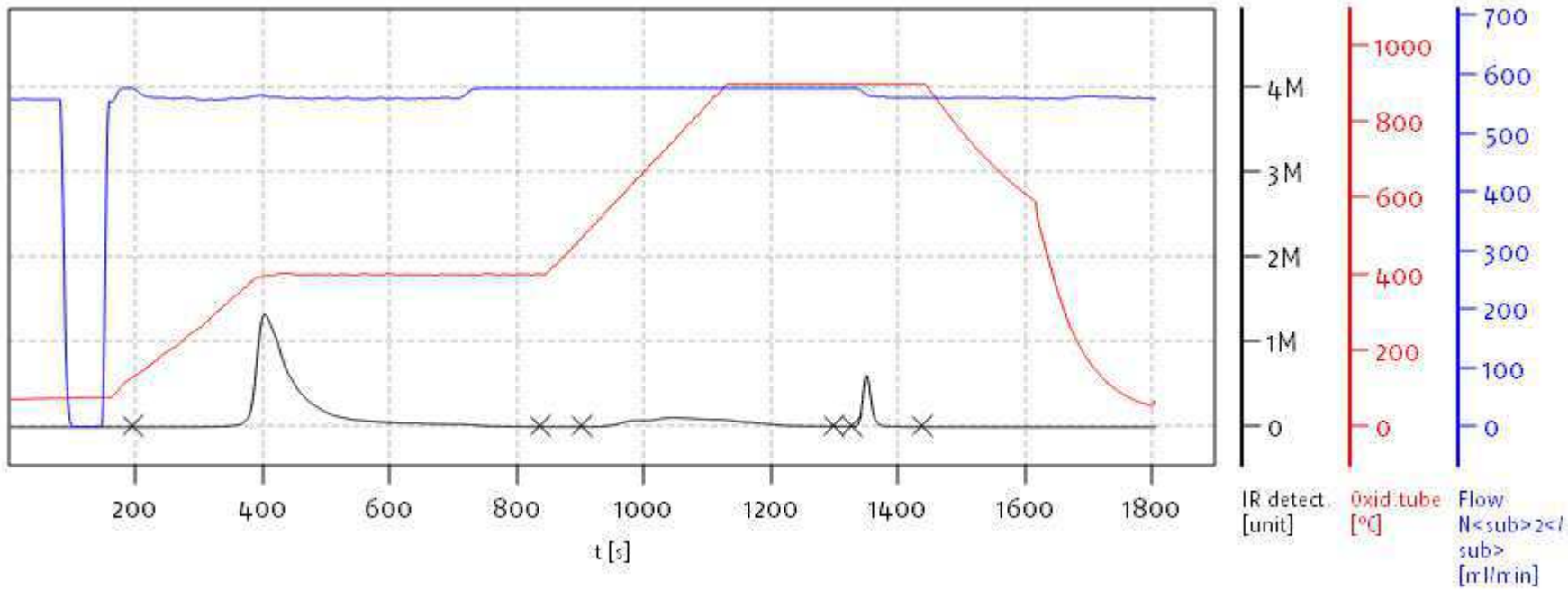
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	22L0199-62	513.70		CARBON	12/23/2022 3:27 AM	bl	1.155	3 521 176	1.385	0.103	367 008	789 830	1.053	0.230	0.9996	1.0000



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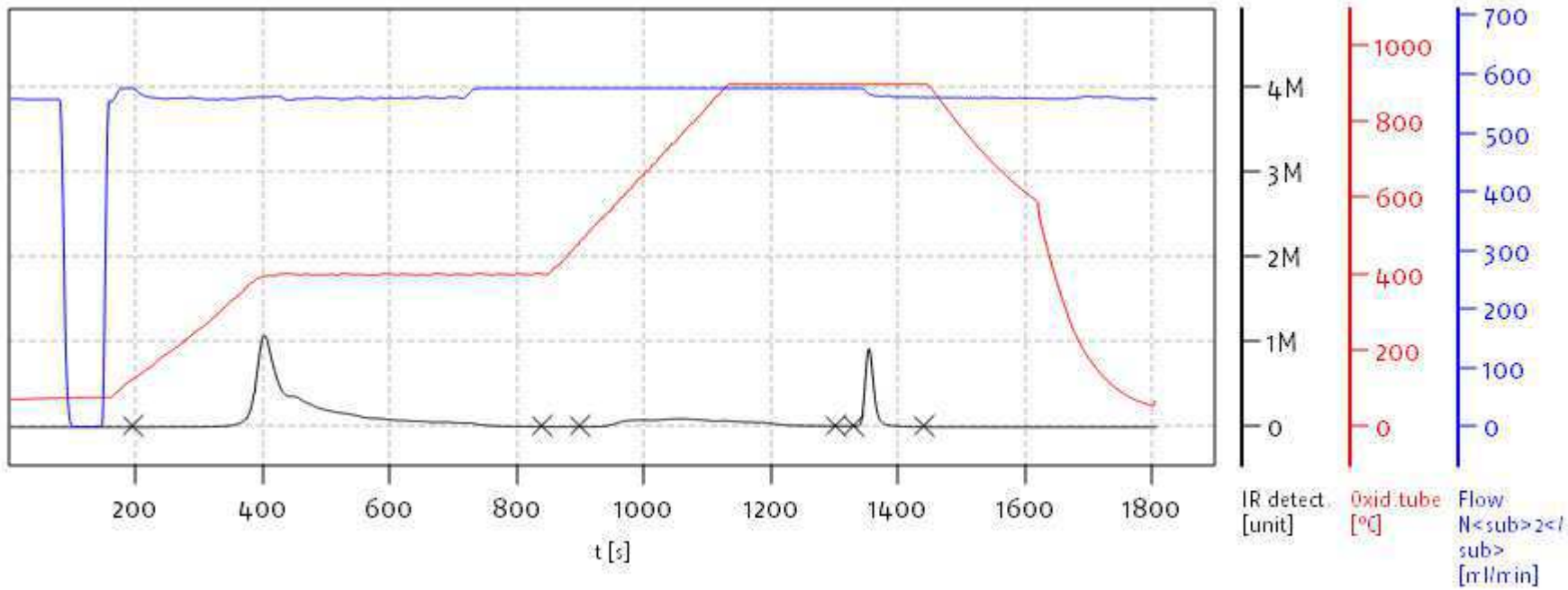
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	22L0199-63	559.90		CARBON	12/23/2022 3:58 AM	bl	0.995	3 080 215	1.207	0.151	573 686	793 622	0.844	0.212	0.9996	1.0000



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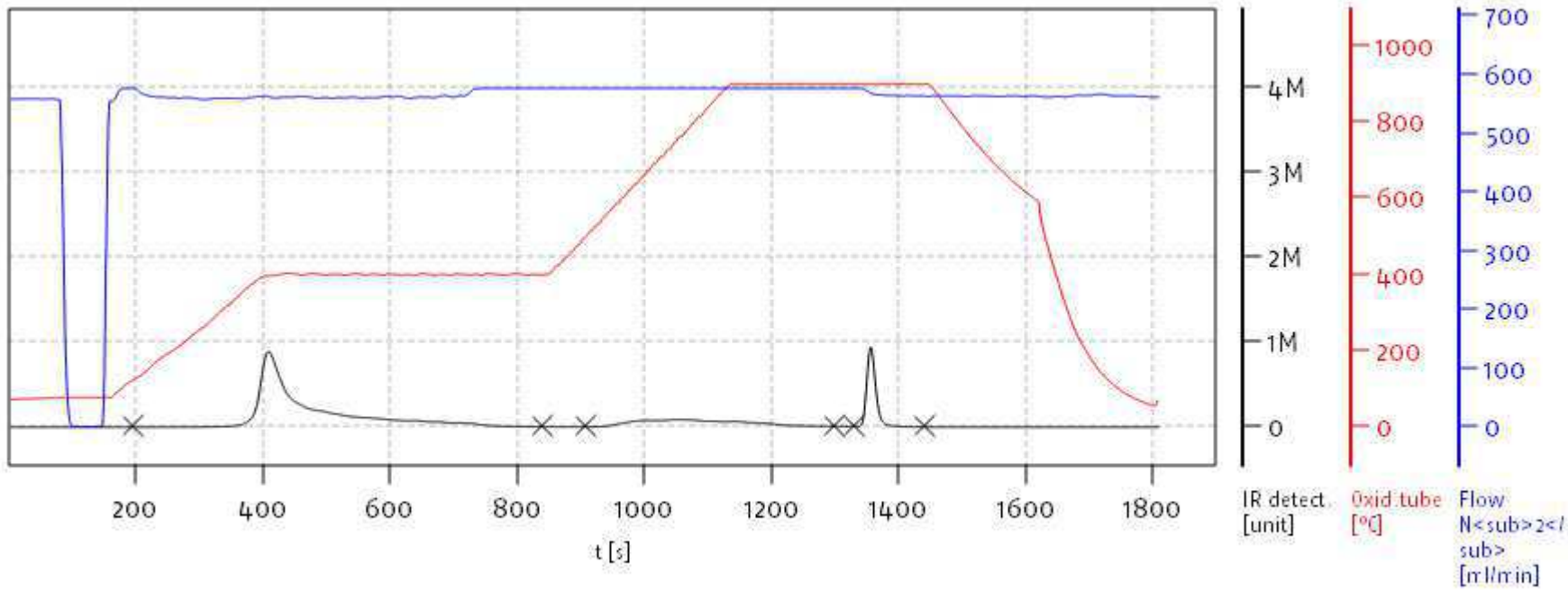
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
83	83	22L0199-64	501.20		CARBON	12/23/2022 4:28 AM	bl	0.985	2 652 399	1.193	0.174	589 666	702 726	0.811	0.209	0.9996	1.0000



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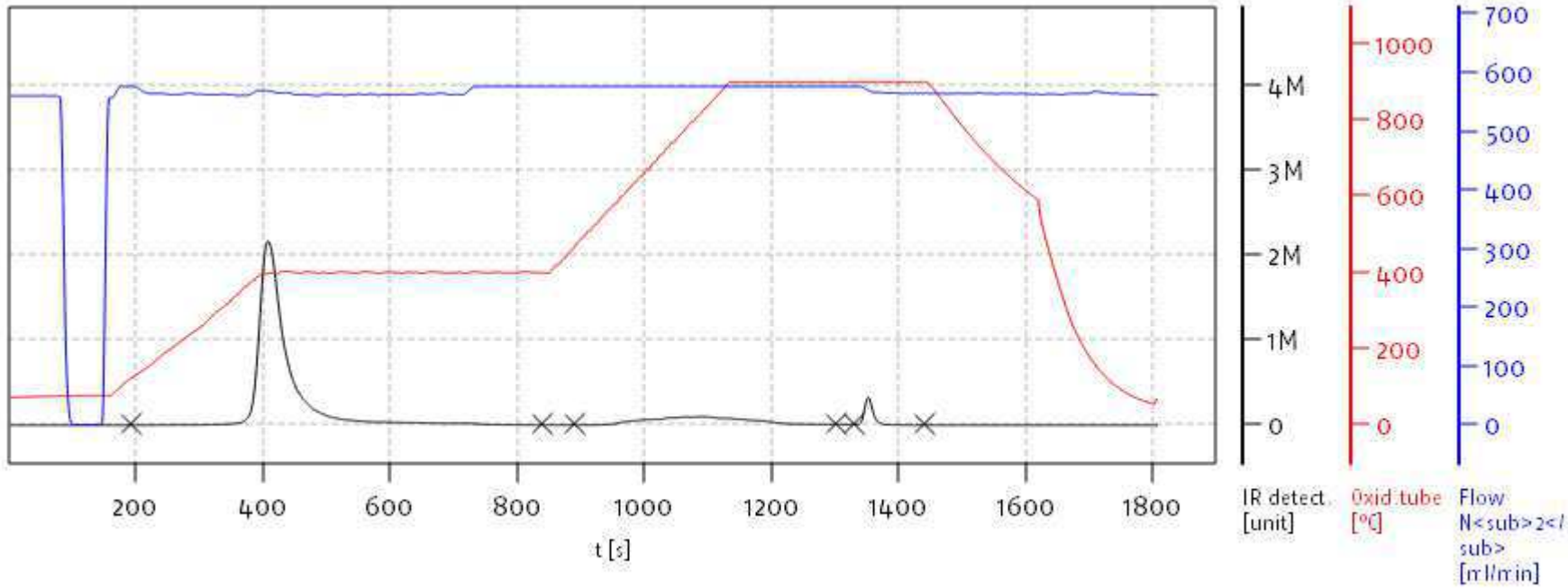
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
84	84	22L0199-65	532.50		CARBON	12/23/2022 4:59 AM	bl	1.224	4 067 902	1.426	0.050	198 298	719 262	1.174	0.201	0.9996	1.0000



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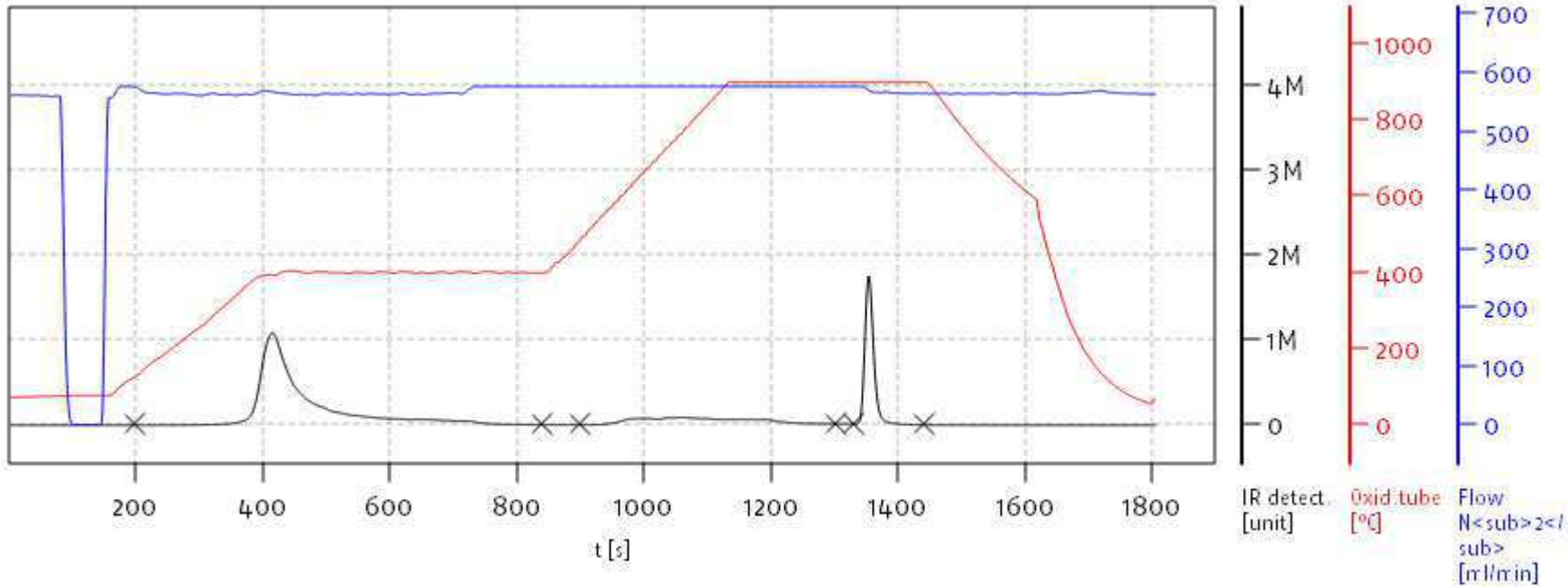
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
85	85	22L0199-66	505.20		CARBON	12/23/2022 5:30 AM	bl	1.299	3 215 823	1.530	0.322	1 077 457	781 938	0.977	0.231	0.9996	1.0000



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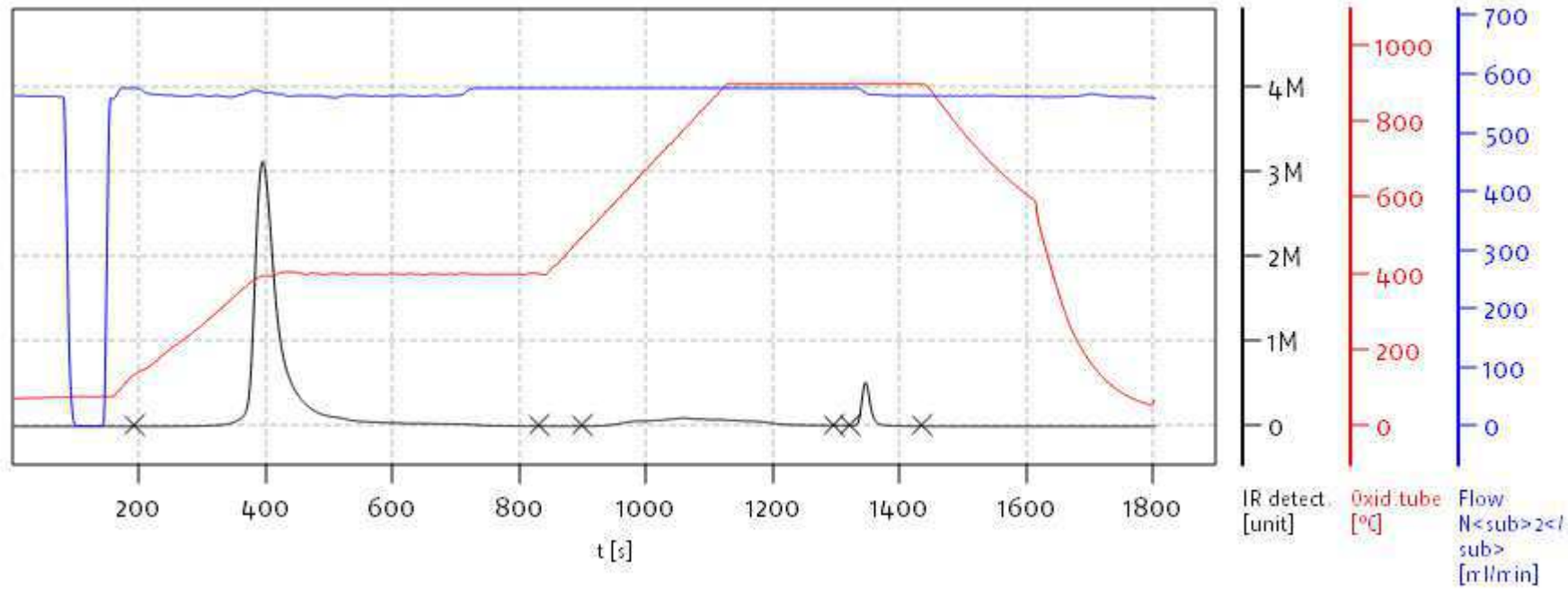
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
86	86	22L0199-67	515.80		CARBON	12/23/2022 6:00 AM	bl	1.693	5 374 820	1.902	0.089	322 719	722 412	1.604	0.209	0.9996	1.0000



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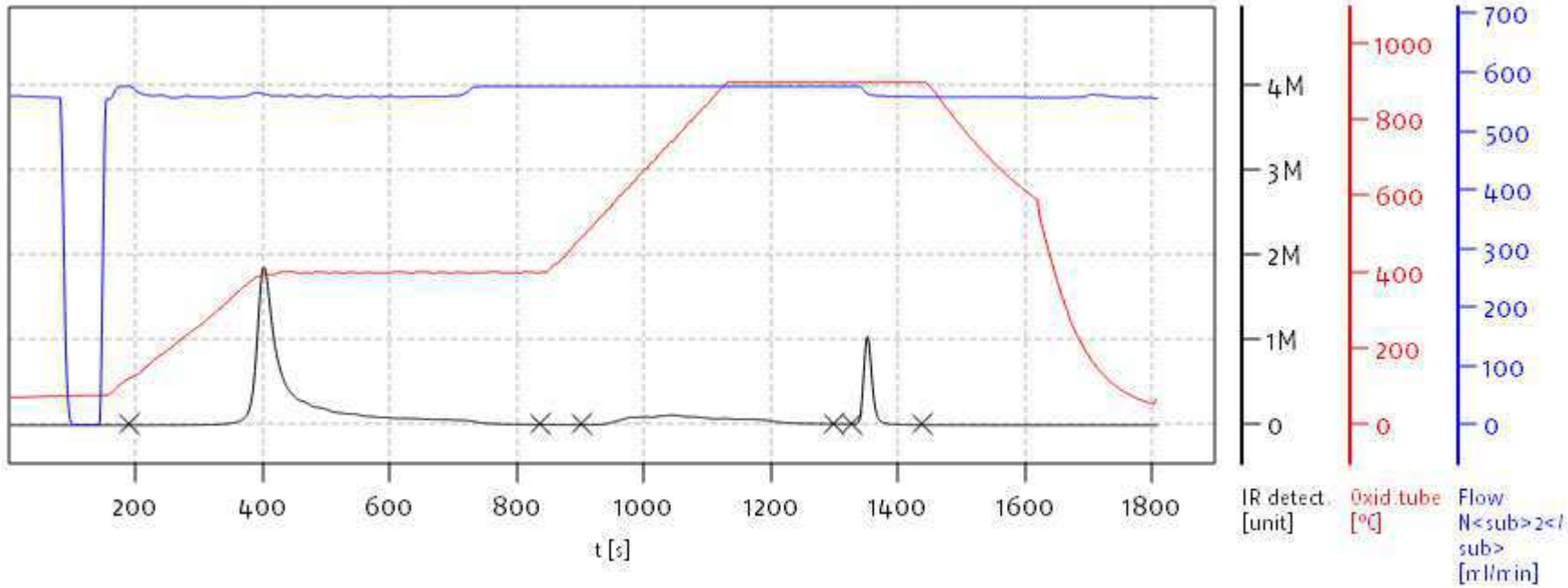
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
87	87	22L0199-68	546.70		CARBON	12/23/2022 6:31 AM	bl	1.246	3 832 272	1.493	0.169	622 404	899 887	1.077	0.247	0.9996	1.0000



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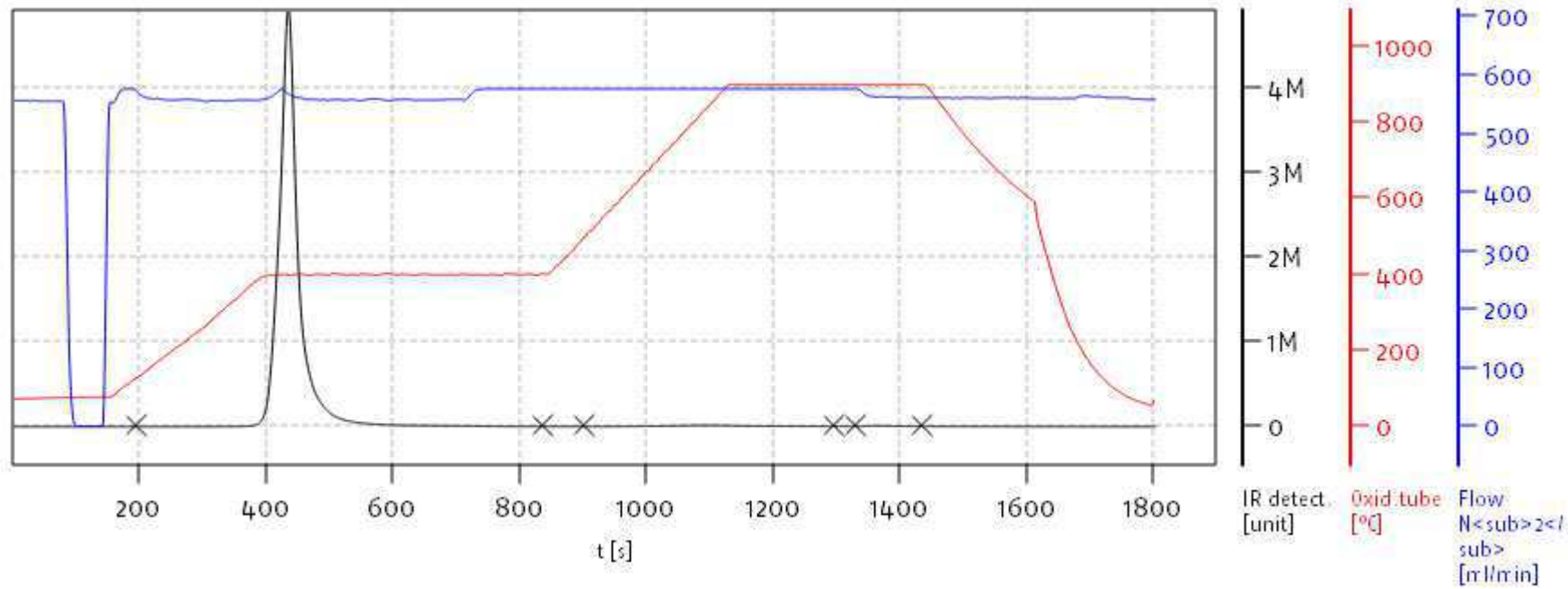
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
88	88	SKL0276-CCV7	22.20		CARBON	12/23/2022 7:01 AM	bl	44.988	6 480 772	45.517	0.000	23 495	102 431	44.988	0.529	0.9996	1.0000



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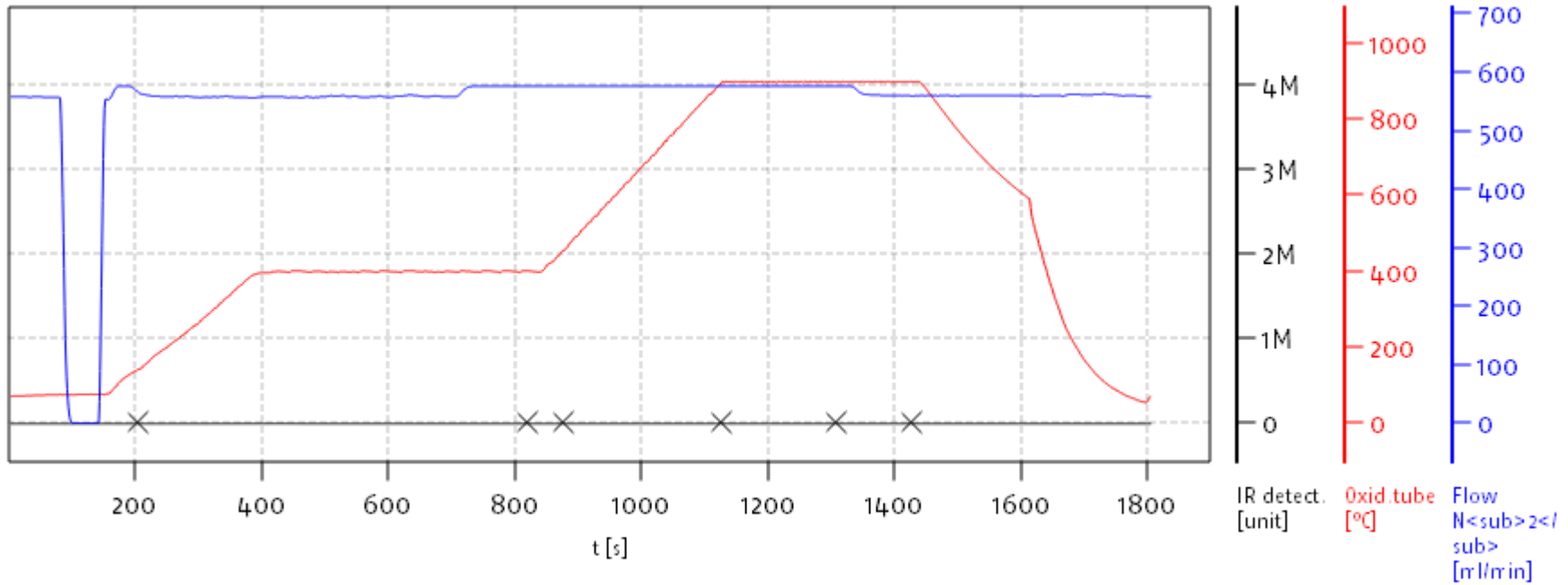
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
89	89	SKL0276-CCB7	501.70		CARBON	12/23/2022 7:31 AM	bl,C3u,C2u	0.000	5 735	0.000	0.000	709	1 366	0.000	0.000	0.9996	1.0000



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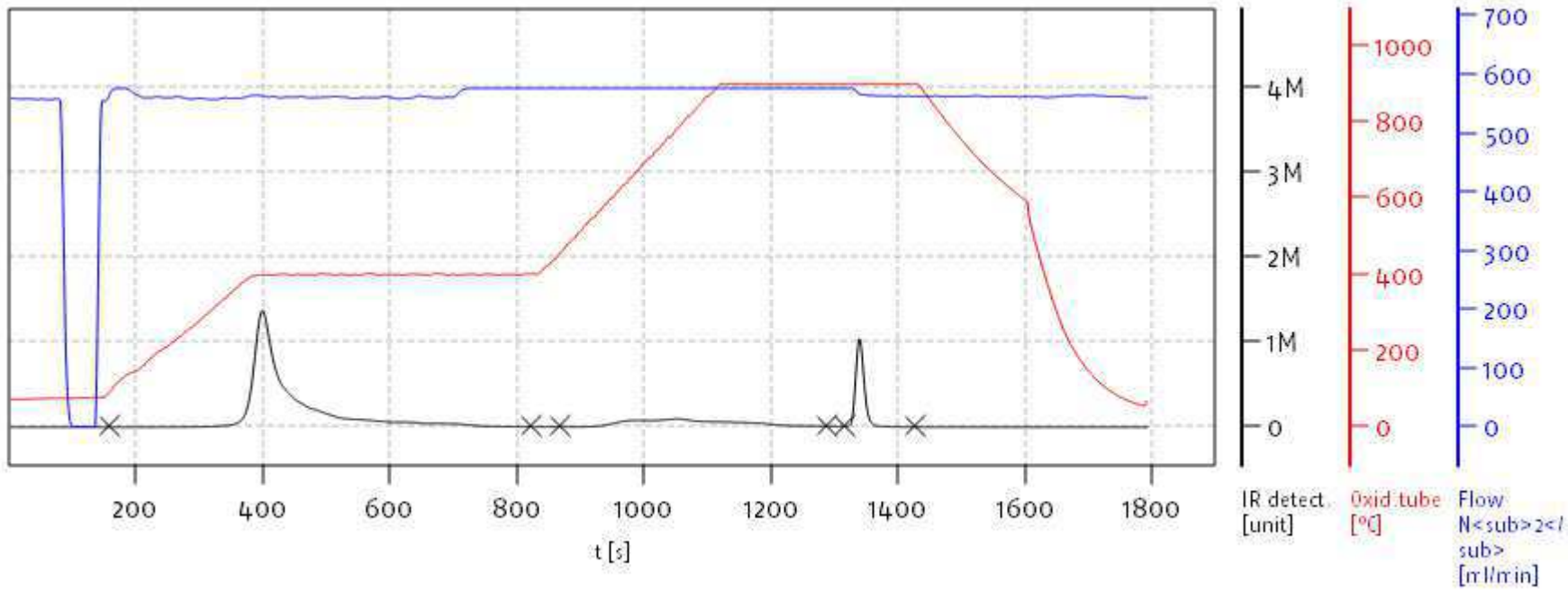
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
90	1	22L0199-69	515.50		CARBON	12/23/2022 8:02 AM	bl	1.128	3 201 439	1.337	0.175	609 886	720 450	0.953	0.208	0.9996	1.0000



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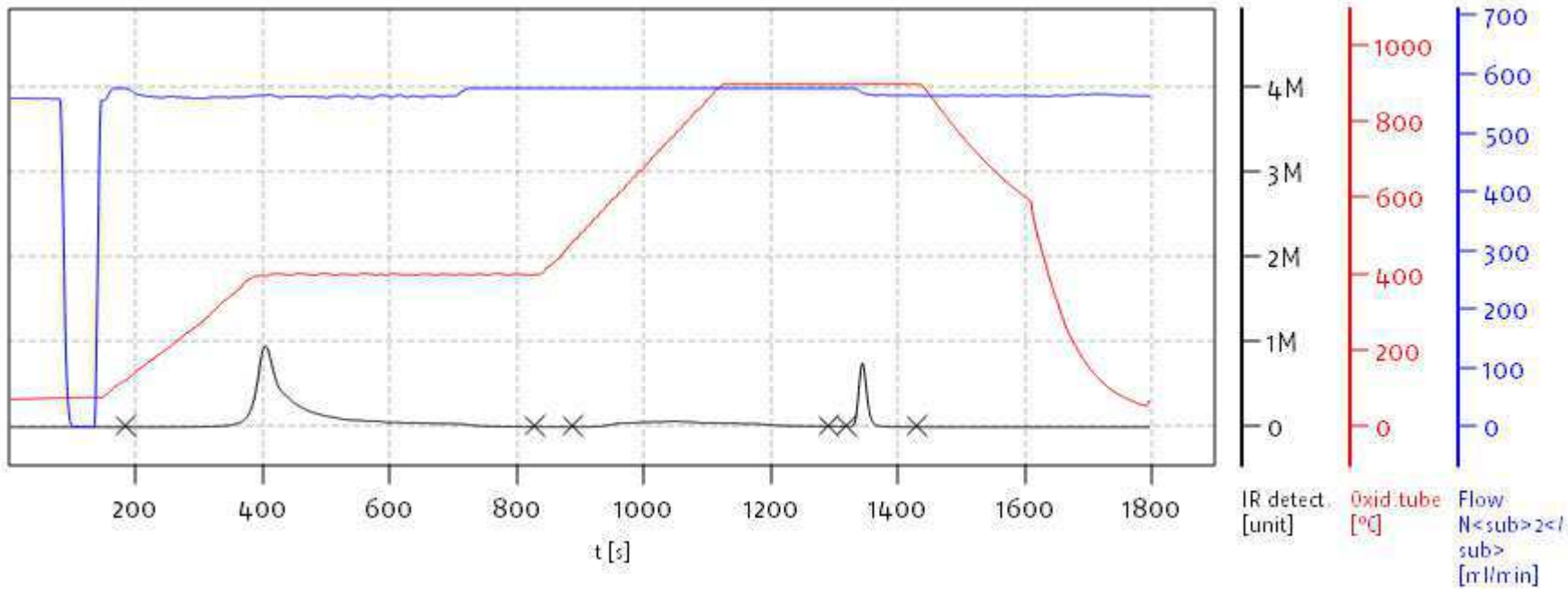
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
91	2	22L0199-70	520.30		CARBON	12/23/2022 8:32 AM	bl	0.841	2 444 836	0.991	0.121	434 250	532 952	0.719	0.151	0.9996	1.0000



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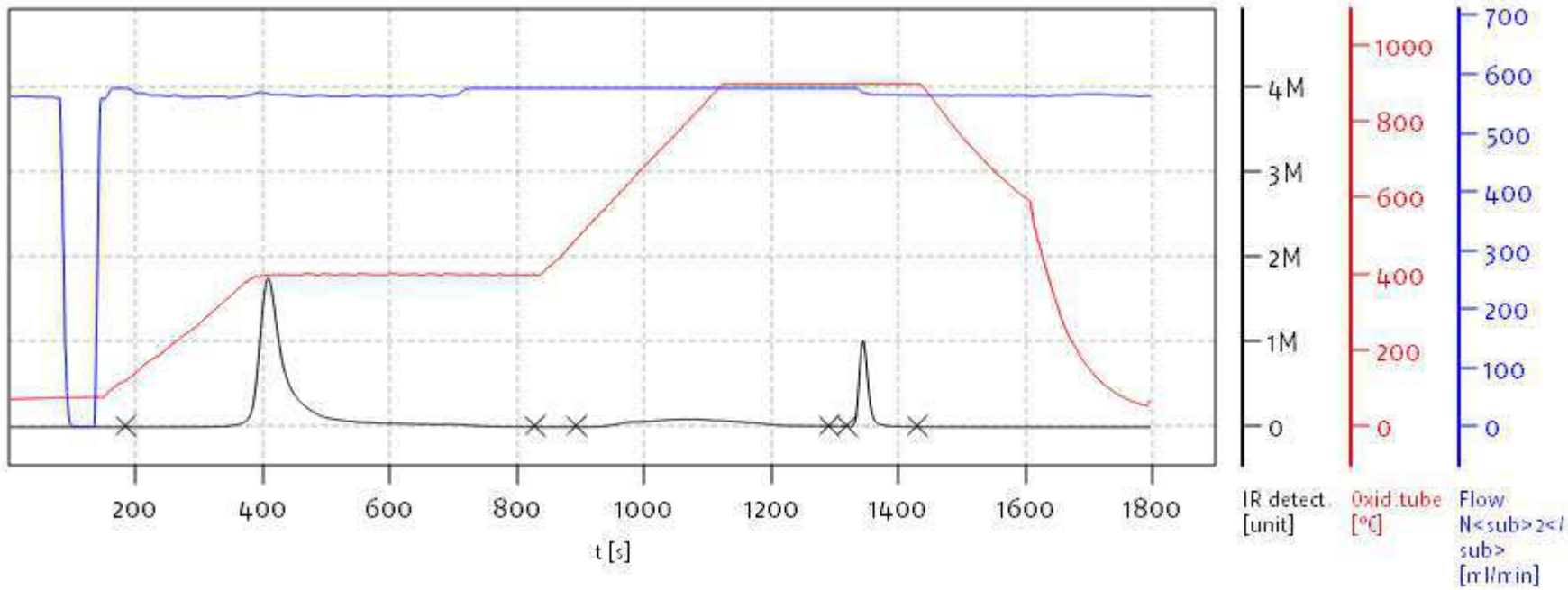
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
92	3	22L0246-01	502.40		CARBON	12/23/2022 9:02 AM	bl	1.220	3 378 930	1.429	0.187	633 650	706 025	1.033	0.209	0.9996	1.0000



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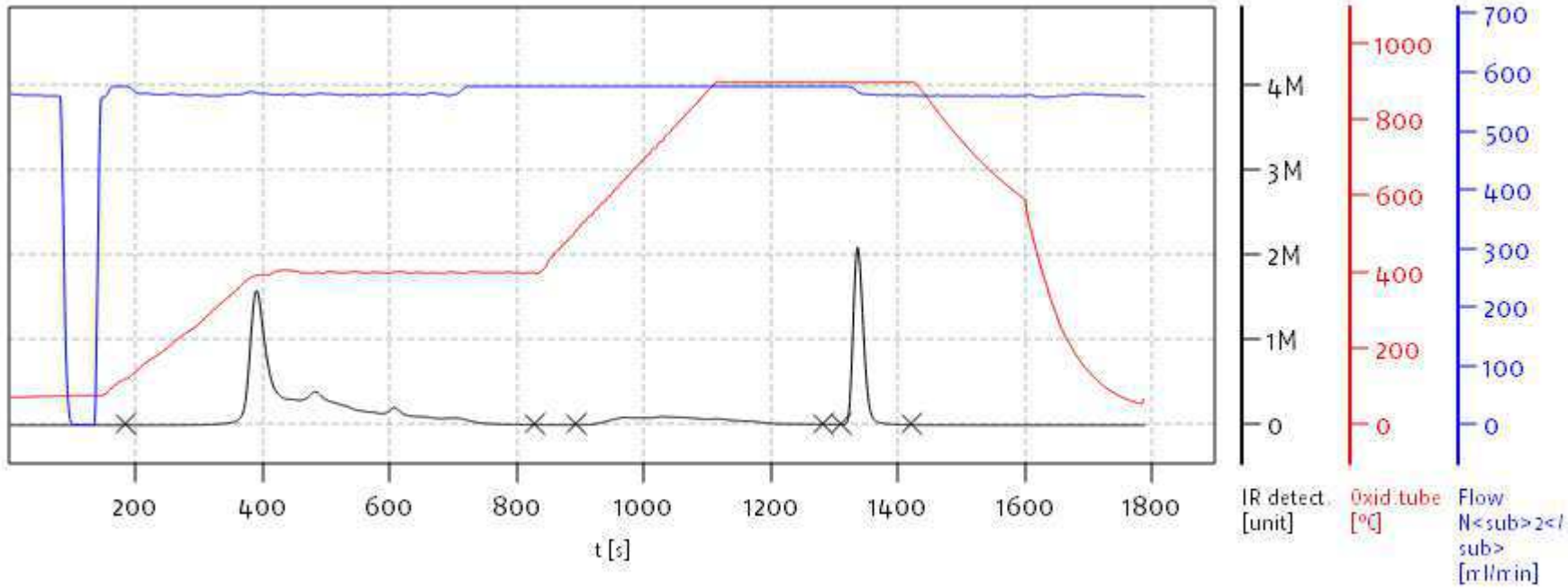
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
93	4	22L0246-02	500.50		CARBON	12/23/2022 9:33 AM	bl	1.704	4 074 295	1.933	0.452	1 488 393	768 196	1.251	0.229	0.9996	1.0000



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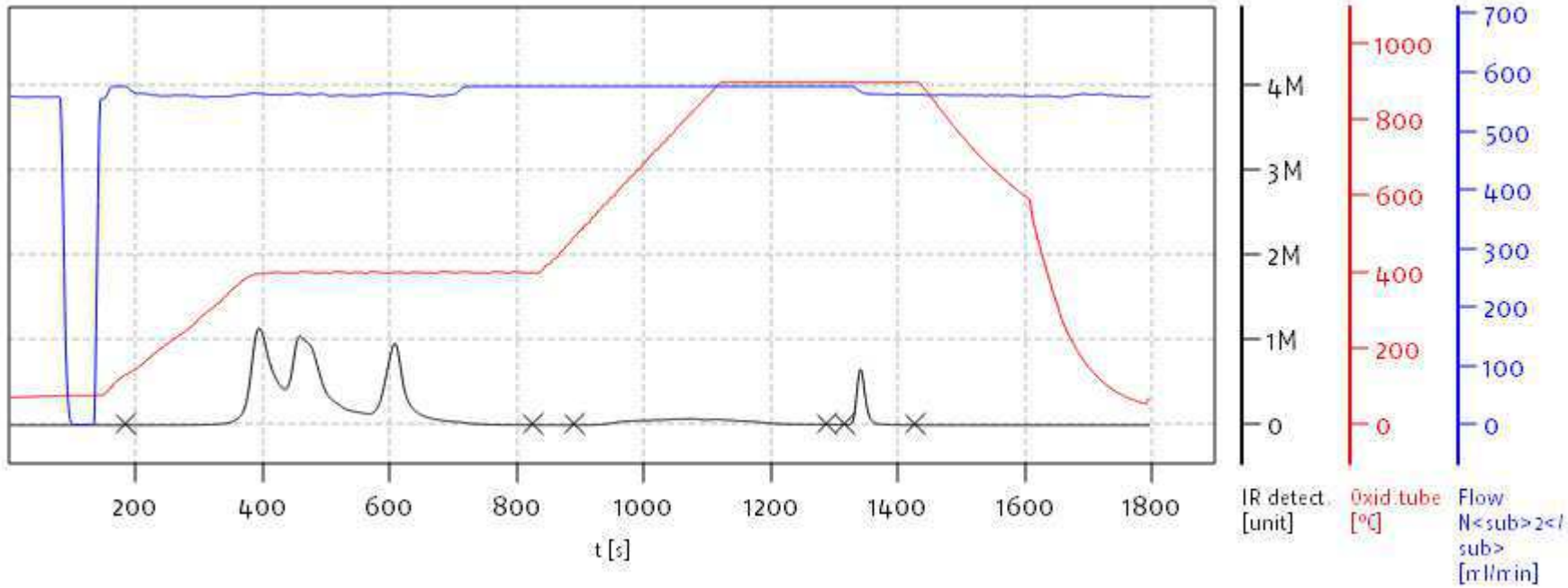
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
94	5	22L0246-03	519.00		CARBON	12/23/2022 10:03 AM	bl	1.796	5 678 475	1.957	0.111	398 033	565 507	1.685	0.161	0.9996	1.0000



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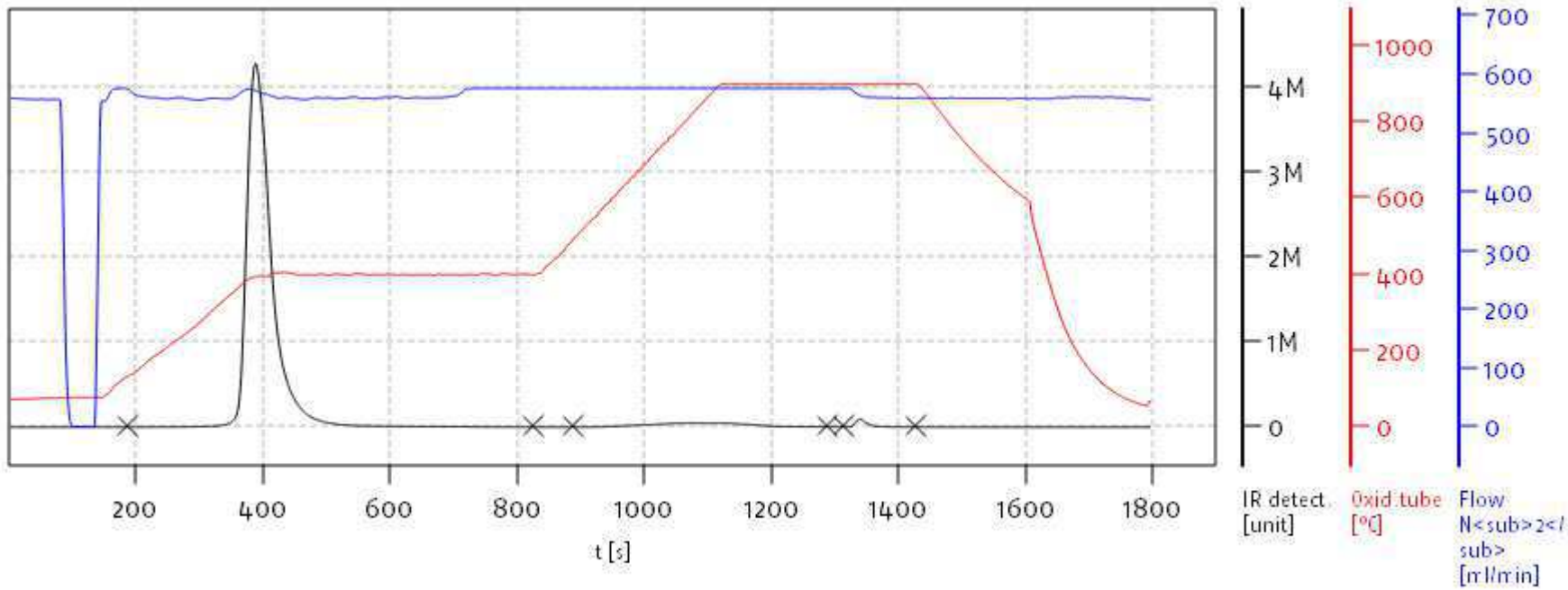
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	22L0246-04	511.90		CARBON	12/23/2022 10:33 AM	bl	2.188	7 213 802	2.282	0.015	77 433	336 623	2.173	0.094	0.9996	1.0000



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Serial No: 0300.181017
Mode CCC

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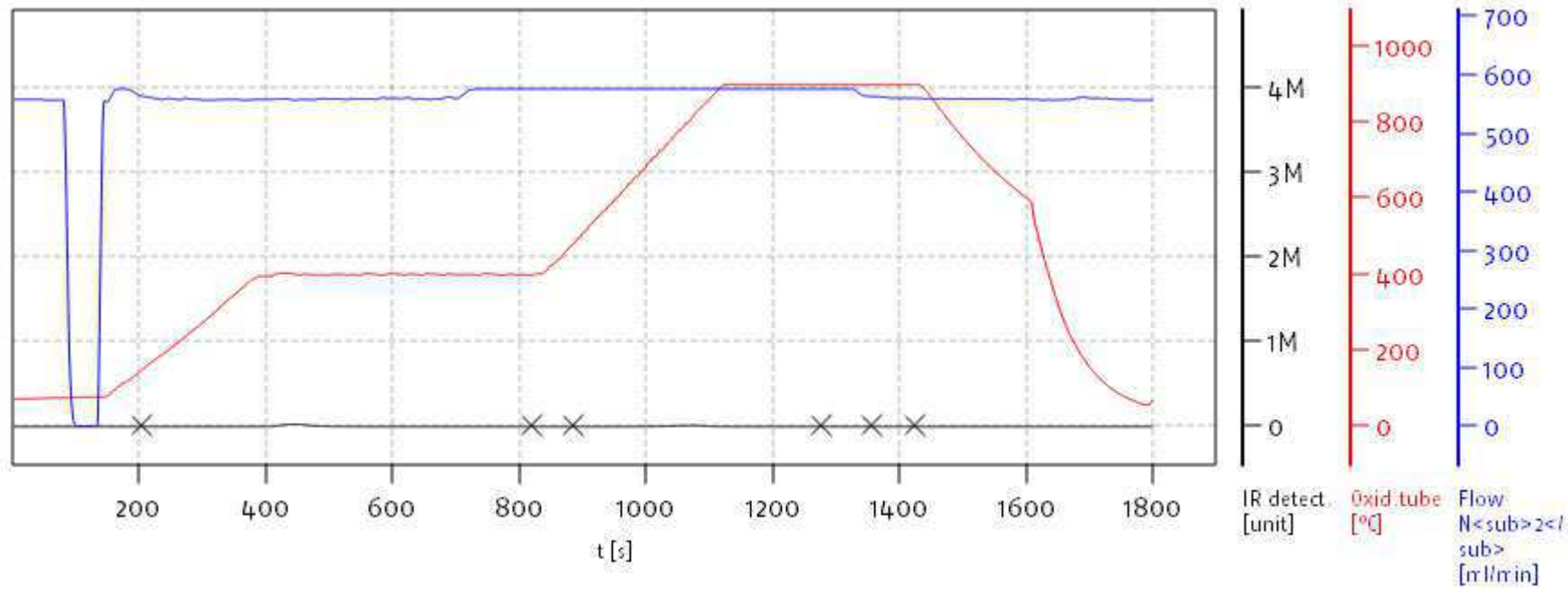
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
96	7	BKL0502-MRL1	506.10		CARBON	12/23/2022 11:04 AM	bl,C2u	0.010	59 988	0.013	0.000	187	34 271	0.010	0.002	0.9996	1.0000



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Balance: BAL3
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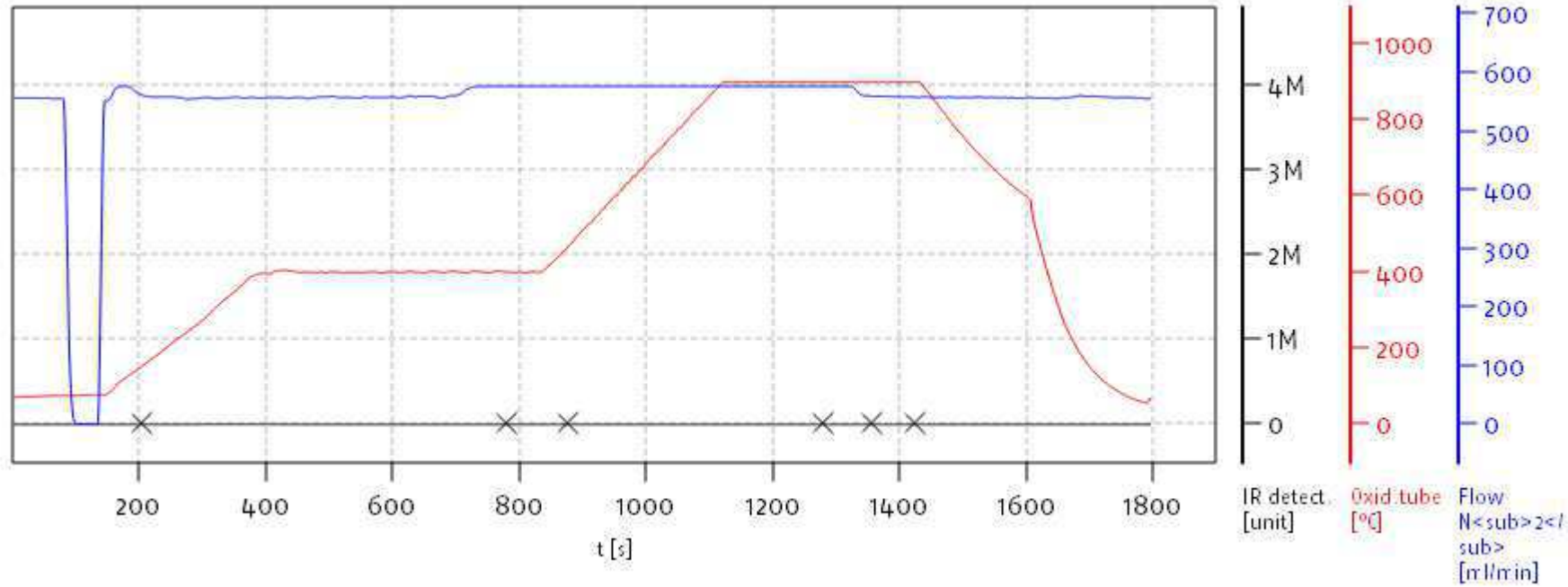
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
97	8	BLANK	1.00		CARBON	12/23/2022 11:34 AM	bl	0.000	10 730	0.000	0.000	251	1 382	0.000	0.000	0.9996	1.0000



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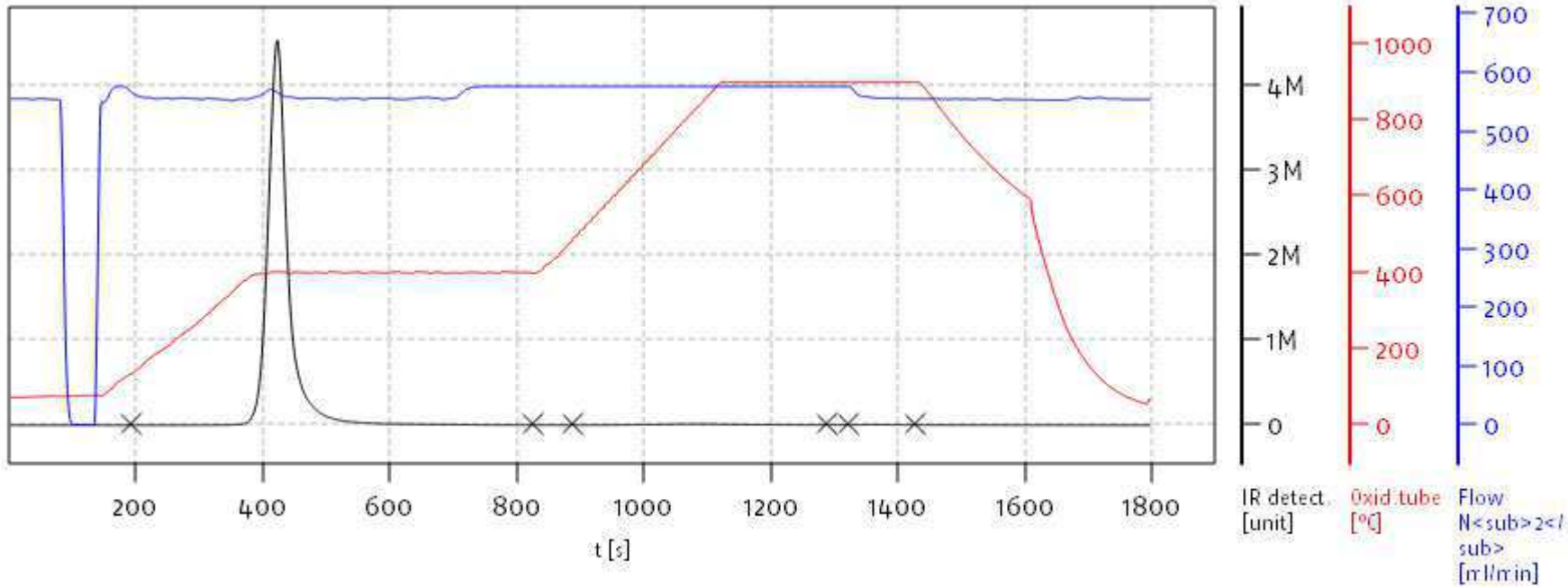
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
98	9	Dfactor	21.30		CARBON	12/23/2022 12:05 PM	bl	44.446	6 248 598	44.945	0.000	19 280	95 270	44.446	0.500	0.9829	1.0000



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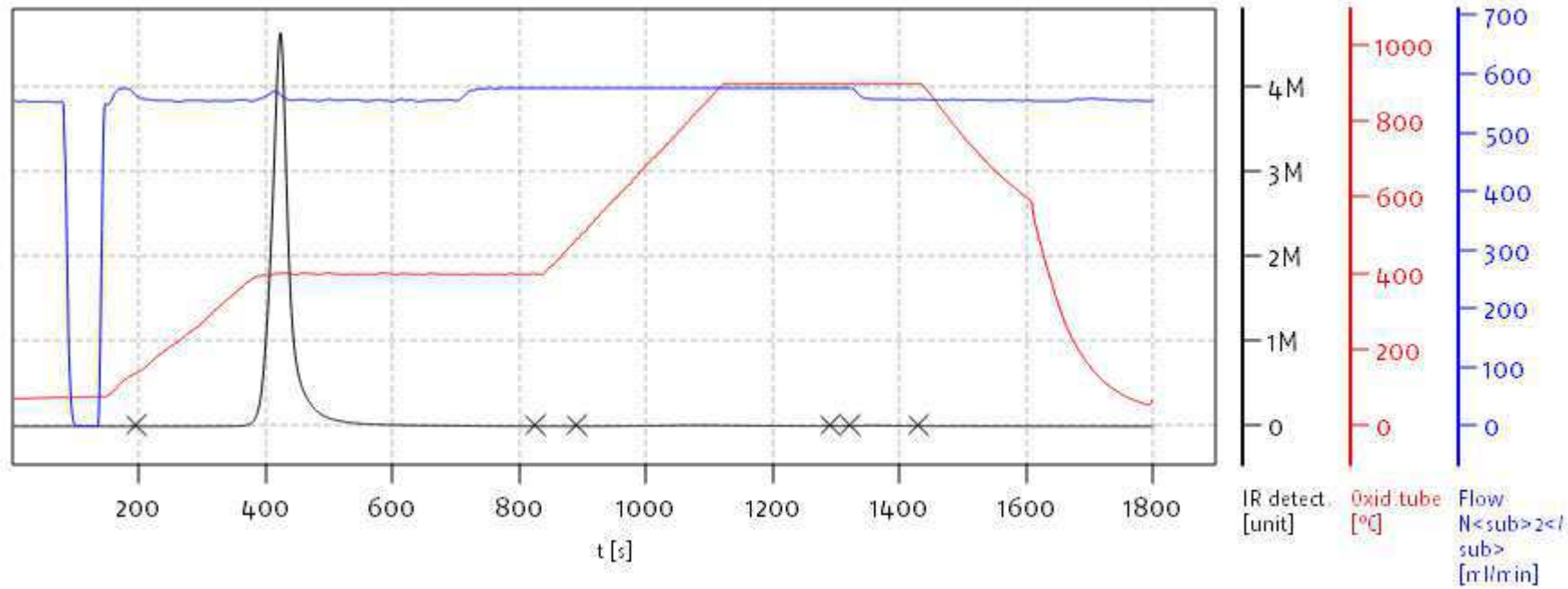
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
99	10	Dfactor	20.20		CARBON	12/23/2022 12:35 PM	bl	44.446	5 816 448	44.994	0.000	26 412	98 137	44.446	0.549	1.0017	1.0000



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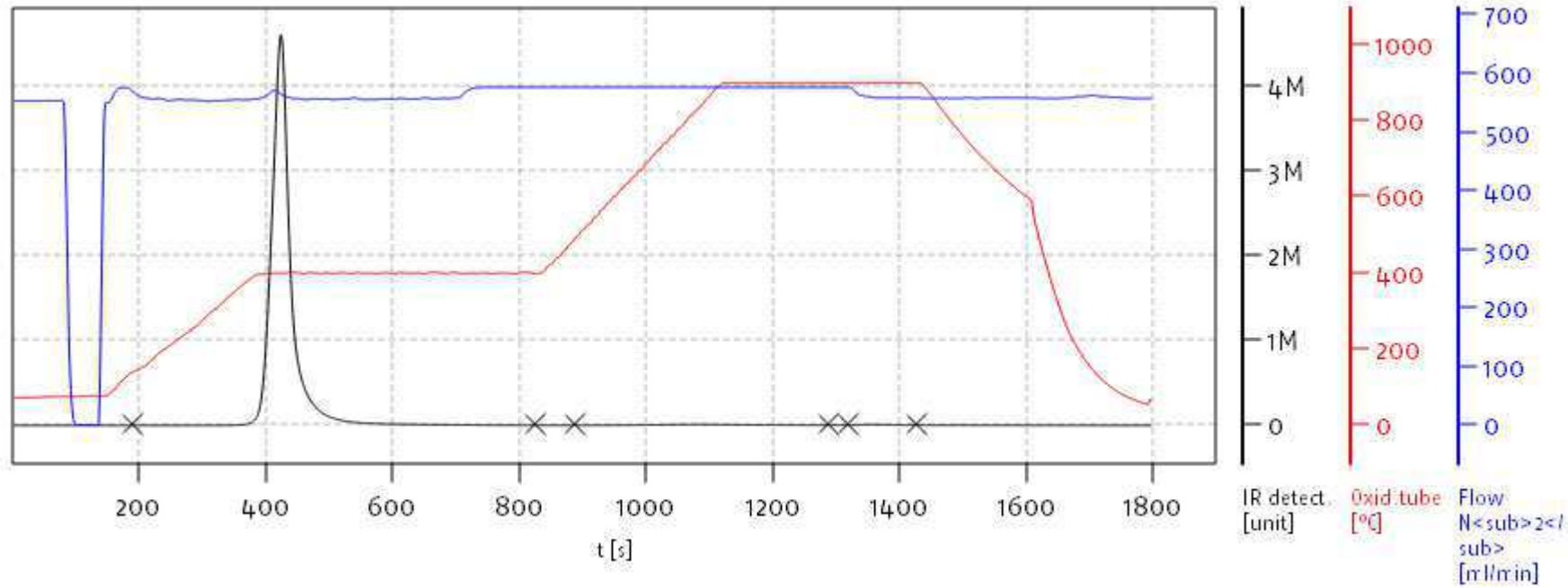
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
100	11	SKL0276-CCV8	20.40		CARBON	12/23/2022 1:05 PM	bl	45.008	6 003 848	45.441	0.000	24 284	83 633	45.008	0.433	0.9923	1.0000



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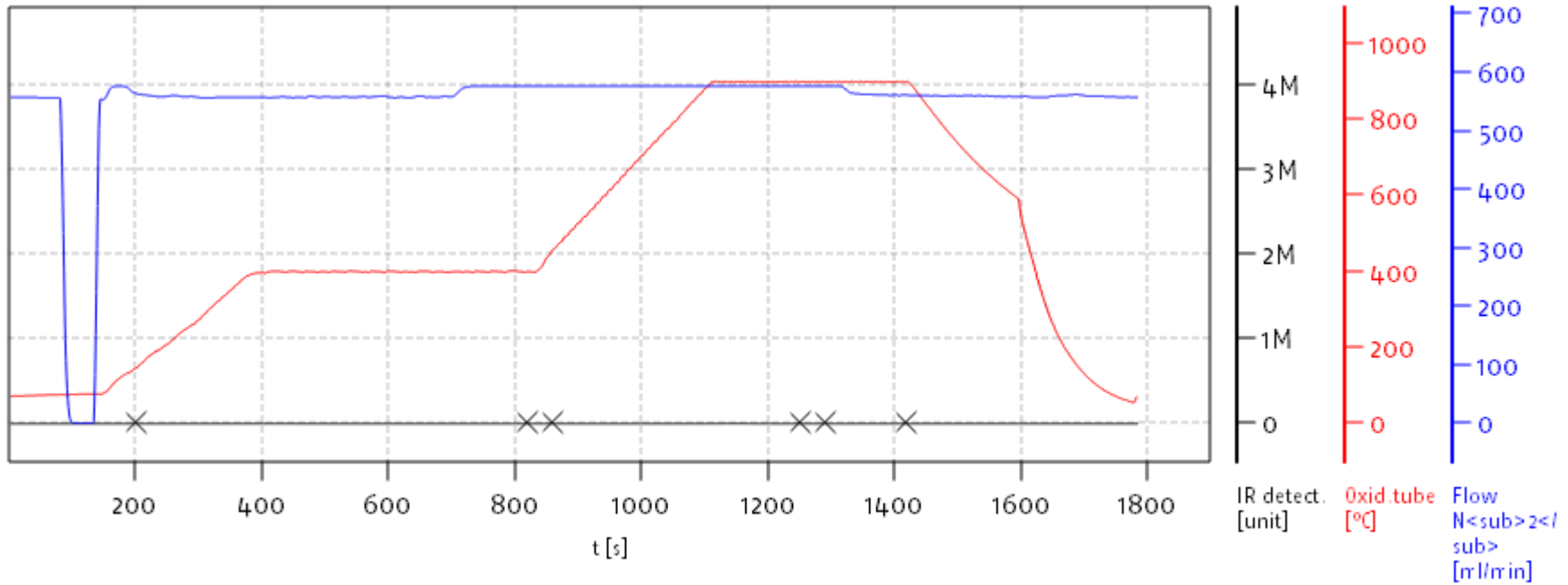
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
101	12	SKL0276-CCB8	518.50		CARBON	12/23/2022 1:35 PM	bl,C2u	0.000	5 039	0.000	0.000	838	5 723	0.000	0.000	0.9923	1.0000



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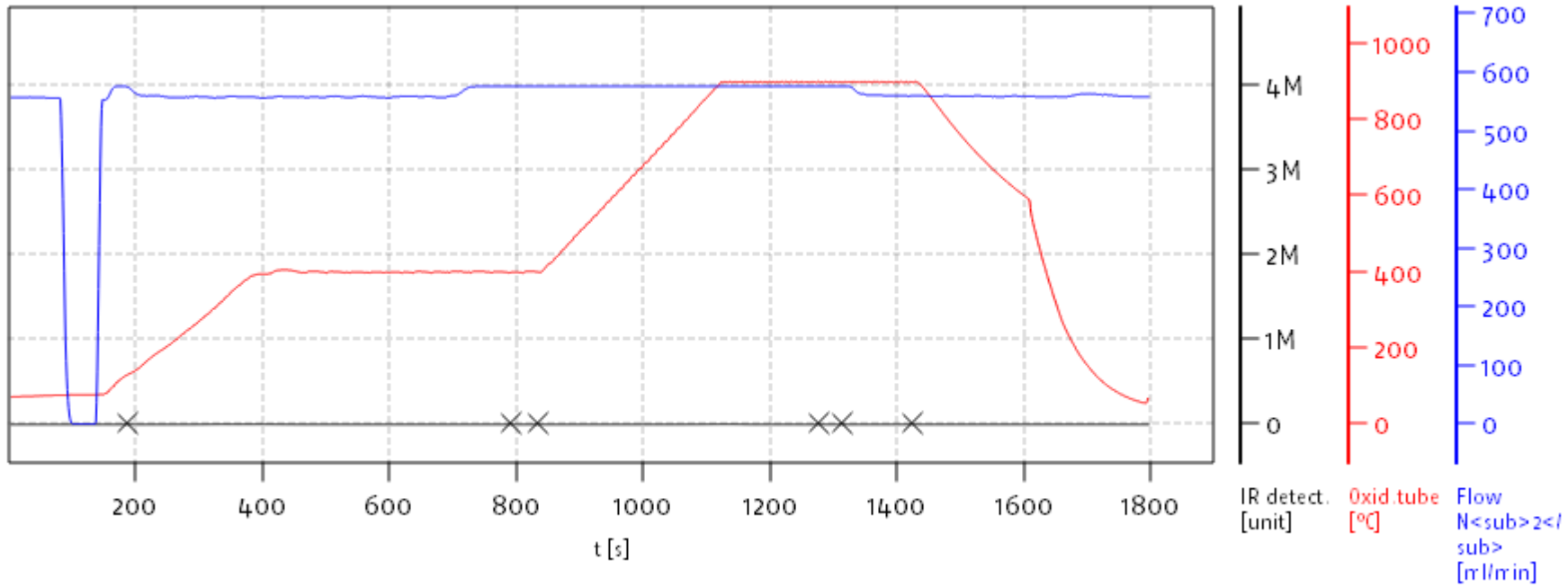
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
102	13	BKL0502-BLK1	503.70		CARBON	12/23/2022 2:06 PM	bl,C2u	0.000	13 951	0.000	0.000	784	8 974	0.000	0.000	0.9923	1.0000



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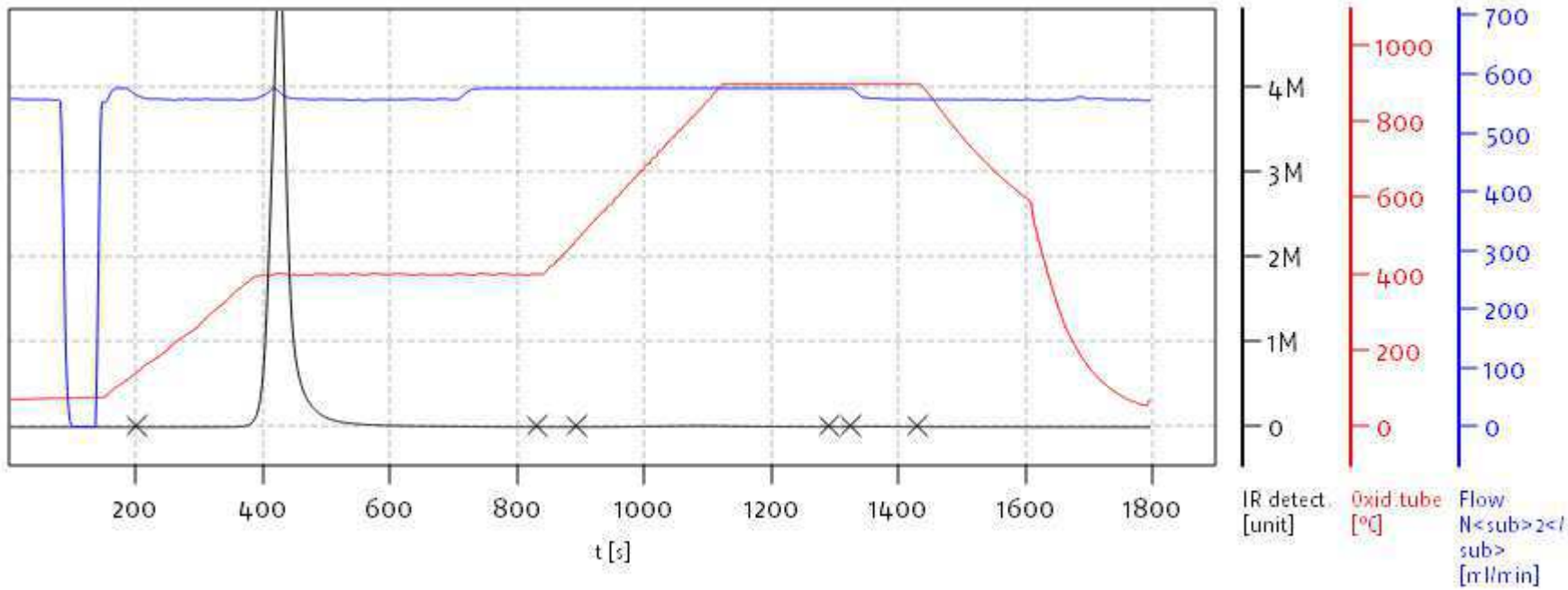
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
103	14	BKL0502-BS1	22.10		CARBON	12/23/2022 2:36 PM	bl	45.475	6 569 265	46.022	0.000	19 790	104 492	45.475	0.546	0.9923	1.0000



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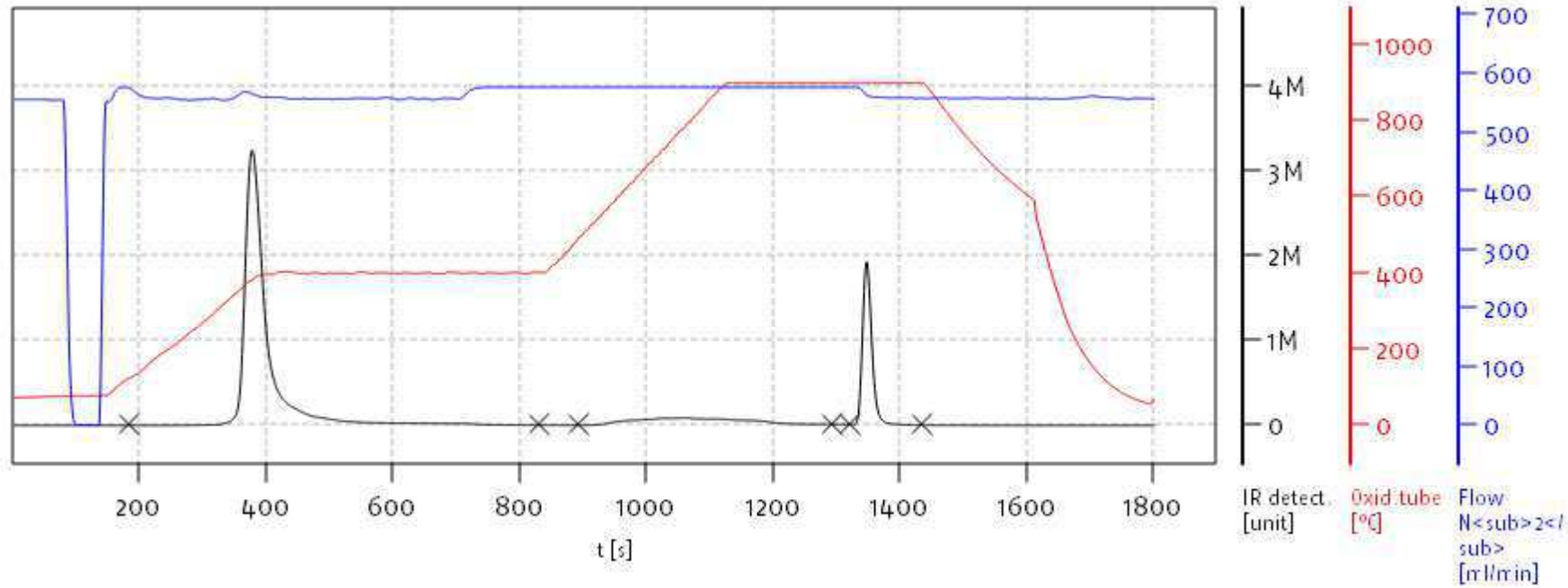
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
104	15	BKL0502-SRM1	304.60		CARBON	12/23/2022 3:07 PM	bl	3.009	4 759 673	3.367	0.622	1 251 374	729 778	2.387	0.357	0.9923	1.0000



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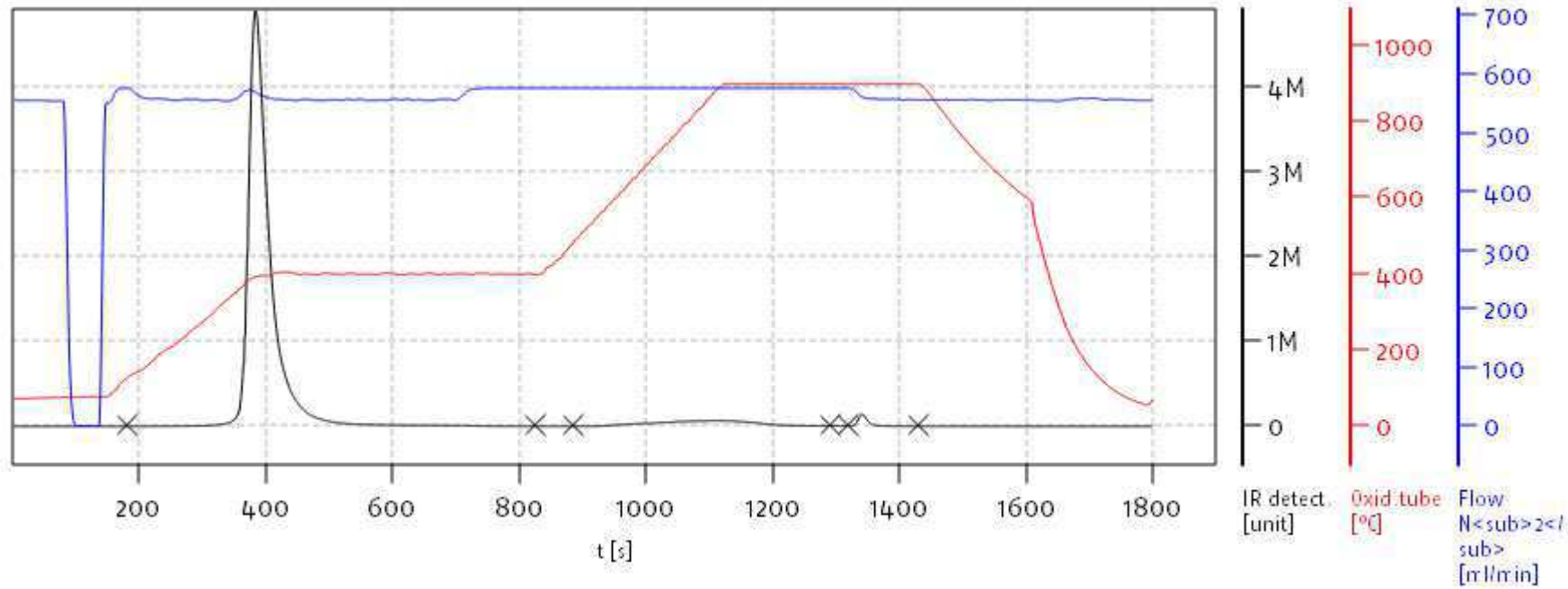
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
105	16	22L0246-05	508.00		CARBON	12/23/2022 3:37 PM	bl	2.186	7 185 531	2.325	0.022	97 775	482 697	2.165	0.139	0.9923	1.0000



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Balance: BAL3
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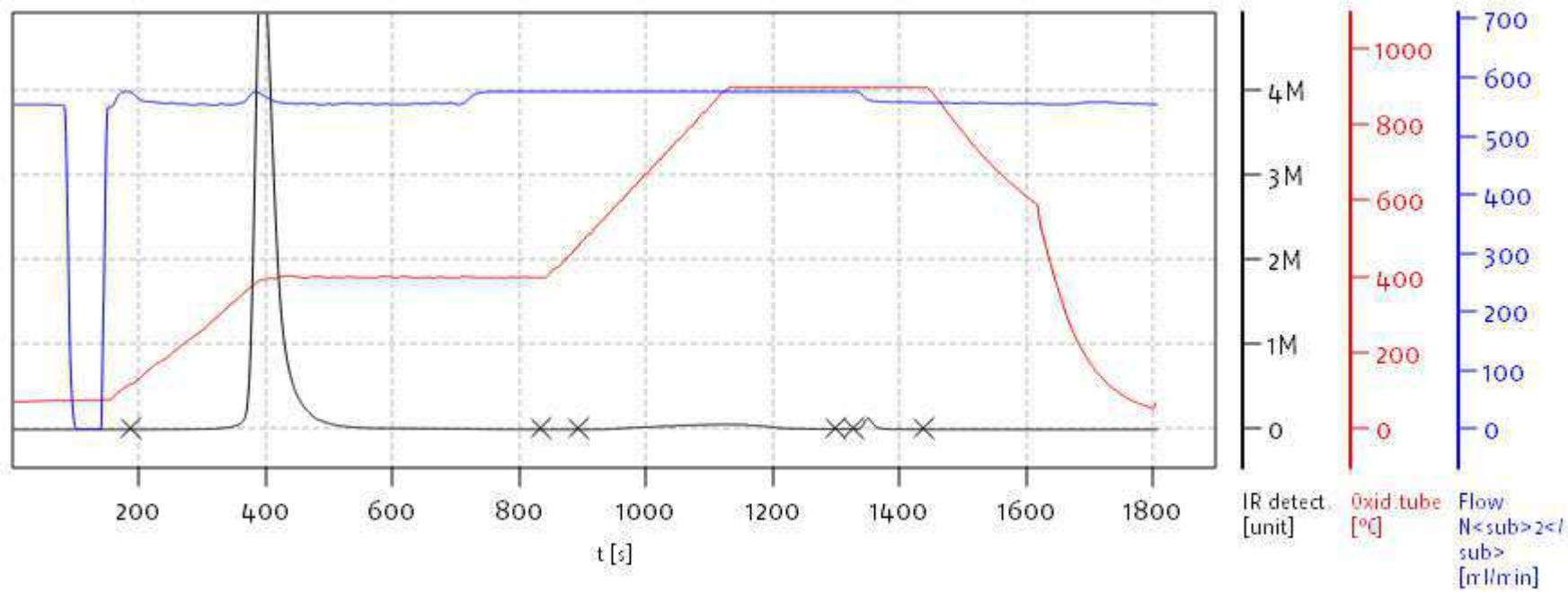
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
106	17	BKL0502-DUP1	553.10		CARBON	12/23/2022 4:08 PM	bl	2.255	8 078 026	2.370	0.019	92 924	439 344	2.236	0.116	0.9923	1.0000



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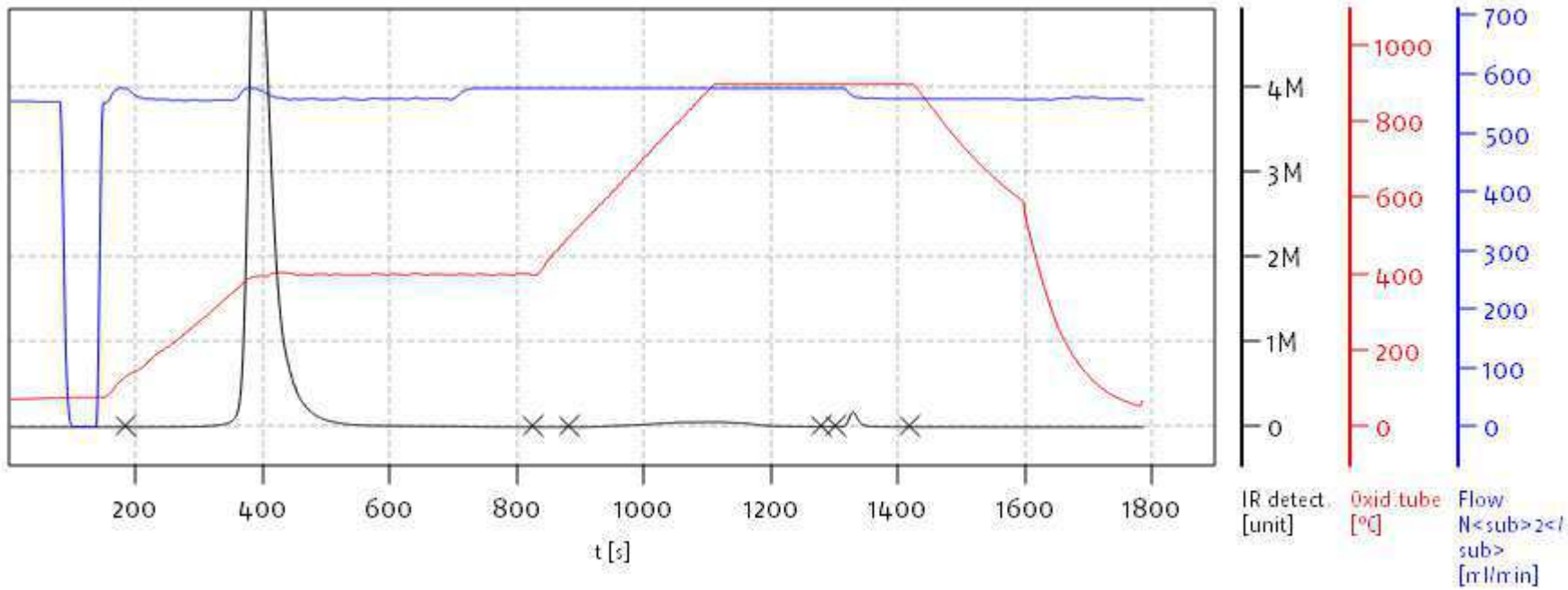
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
107	18	BKL0502-MS1	546.60	0.0092	CARBON	12/23/2022 4:38 PM	bl,C1o	2.900	10 253 584	3.011	0.026	119 790	416 979	2.874	0.111	0.9923	1.0000



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Balance: BAL3
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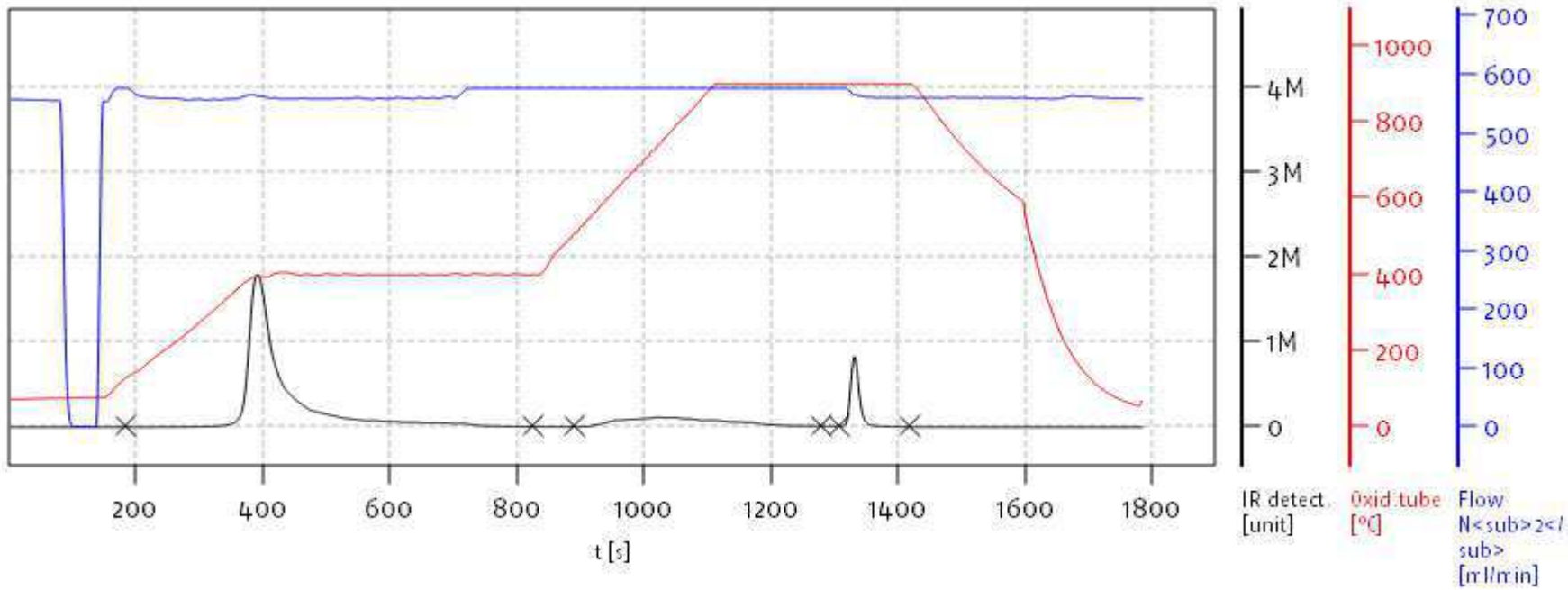
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
108	19	22L0246-06	528.90		CARBON	12/23/2022 5:08 PM	bl	1.294	3 998 430	1.540	0.140	505 528	868 860	1.154	0.247	0.9923	1.0000



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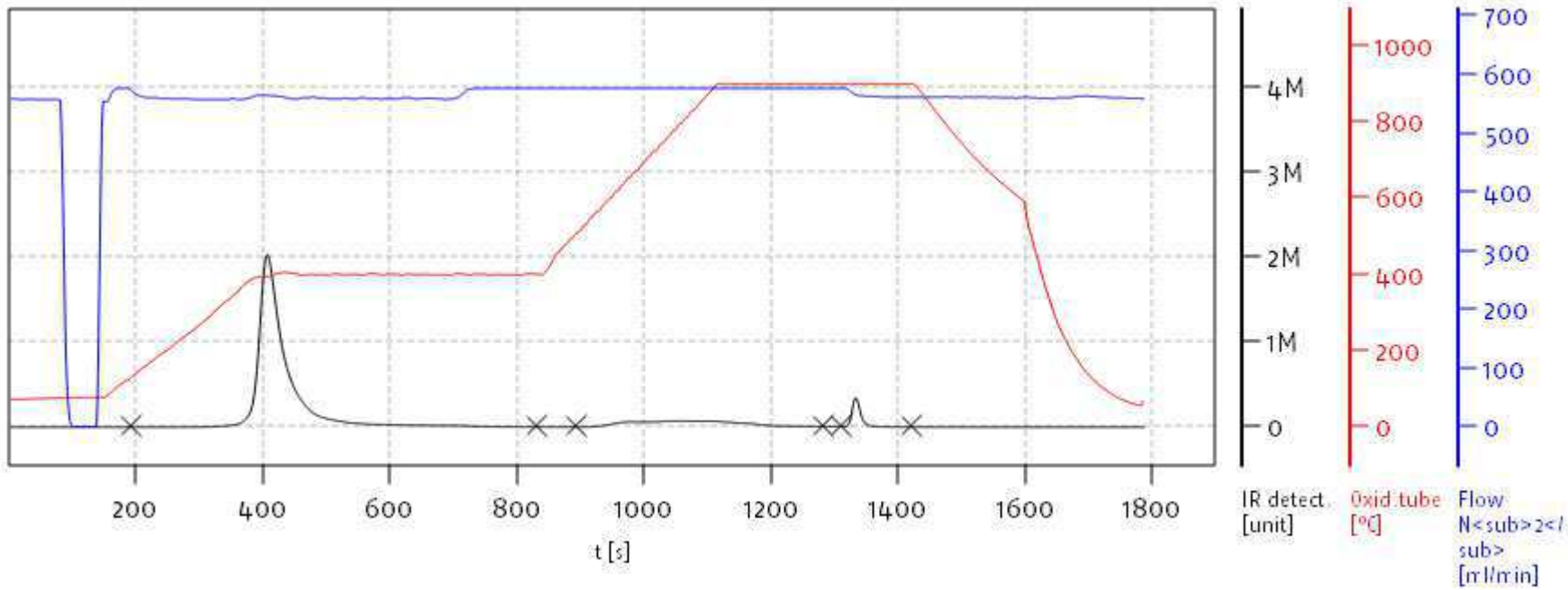
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
109	20	22L0246-07	568.50		CARBON	12/23/2022 5:38 PM	bl	1.036	3 681 991	1.191	0.049	205 223	593 911	0.988	0.154	0.9923	1.0000



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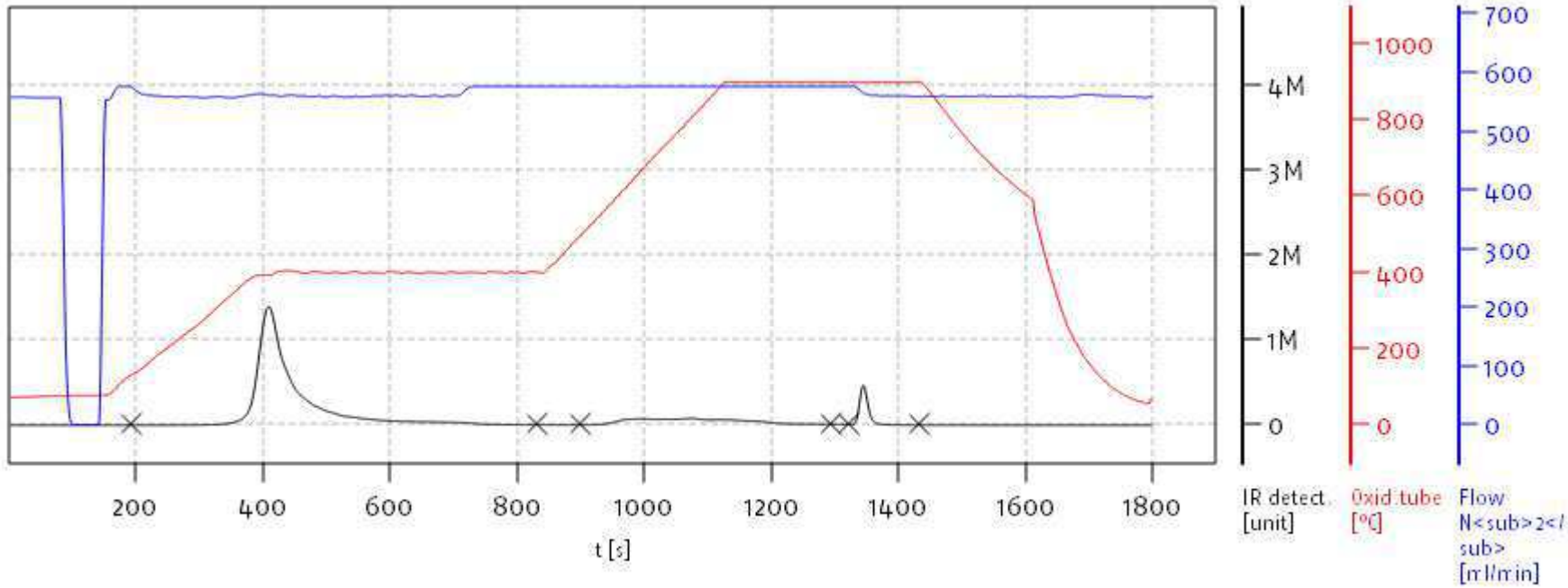
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
110	21	22L0246-08	598.60		CARBON	12/23/2022 6:09 PM	bl	0.937	3 421 115	1.100	0.066	282 836	654 277	0.871	0.162	0.9923	1.0000



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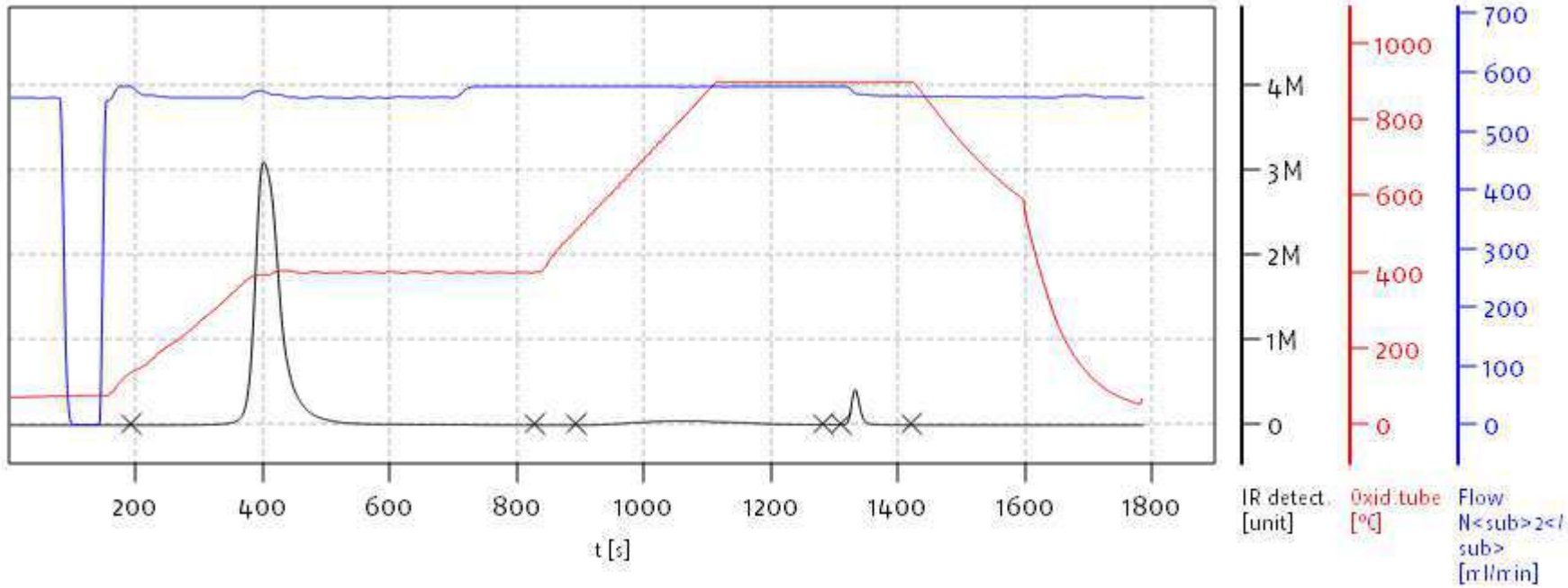
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
111	22	22L0246-09	568.50		CARBON	12/23/2022 6:39 PM	bl	1.522	5 435 898	1.610	0.061	249 344	349 548	1.462	0.088	0.9923	1.0000



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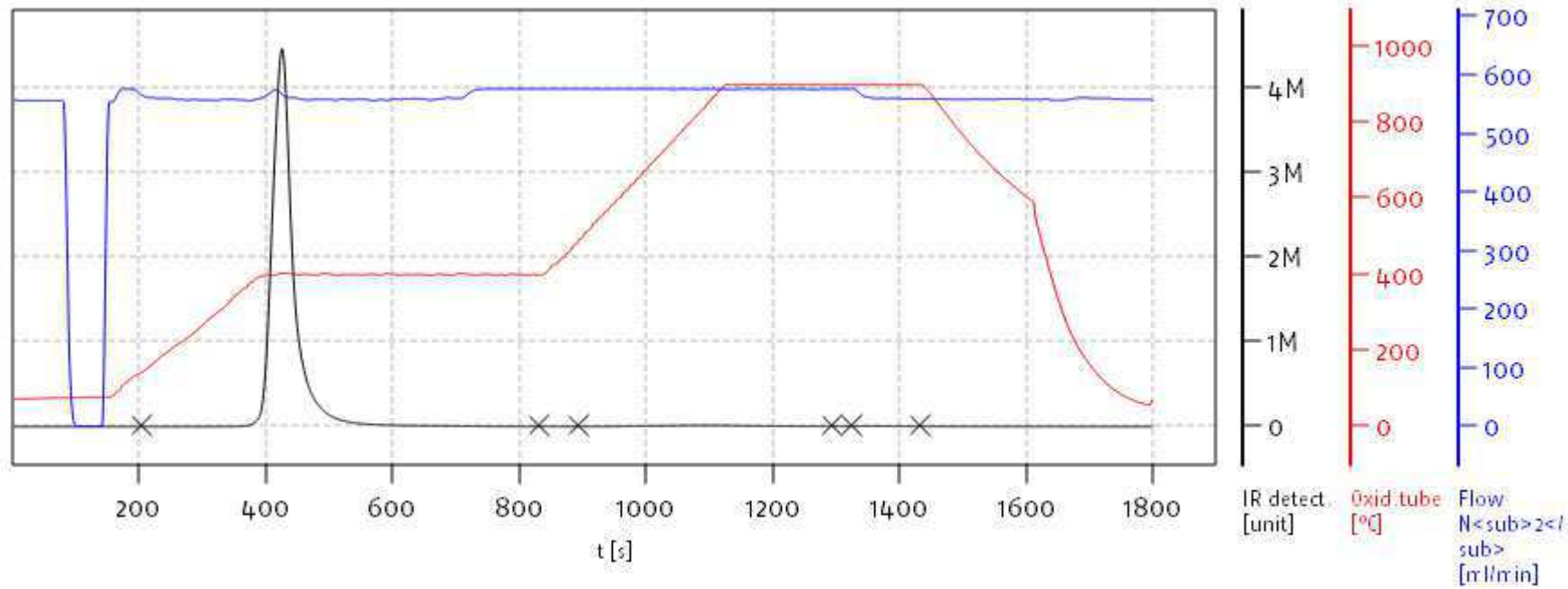
elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
112	23	SKL0276-CCV9	21.50		CARBON	12/23/2022 7:09 PM	bl	46.336	6 512 023	46.983	0.000	21 191	116 460	46.336	0.647	0.9923	1.0000



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Serial No: 0300.181017
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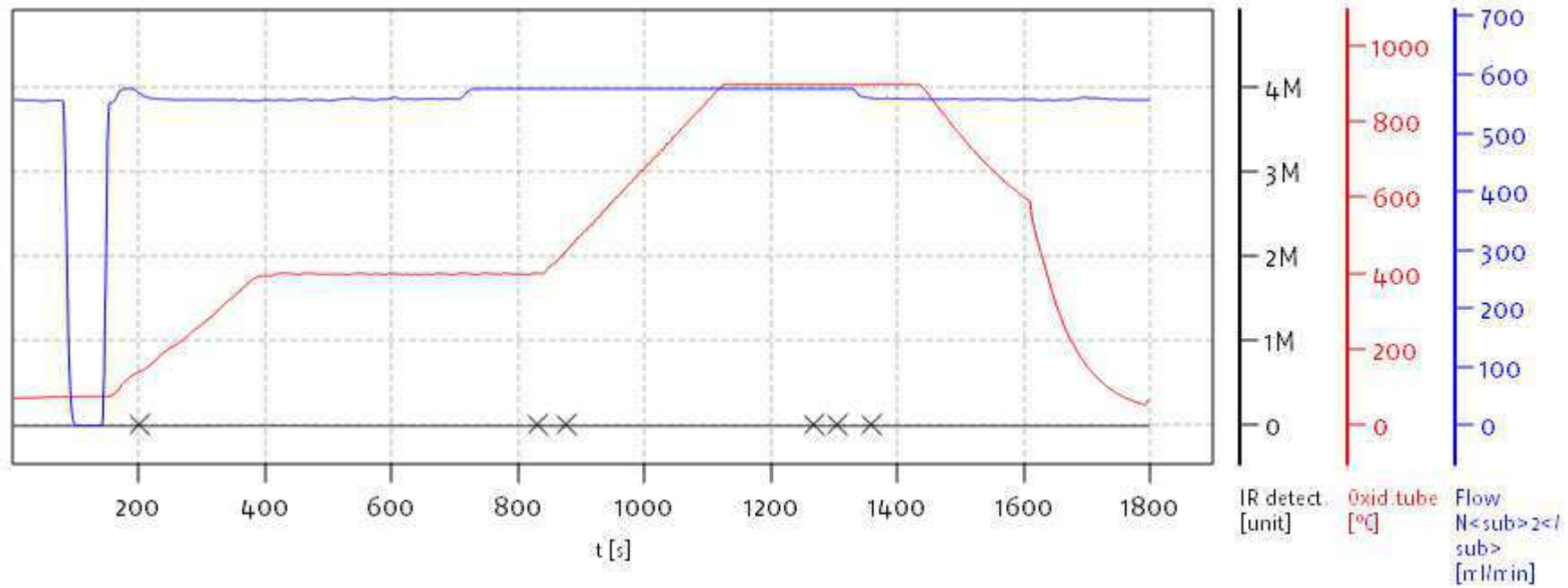
elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
113	24	SKL0276-CCB9	505.00		CARBON	12/23/2022 7:39 PM	bl,C3u,C2u	0.000	8 846	0.000	0.000	355	1 925	0.000	0.000	0.9923	1.0000



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Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Inorganic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
% Soot	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Inorganic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
% Soot	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Inorganic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
% Soot	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Inorganic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
% Soot	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408

INITIAL CALIBRATION DATA

EPA 9060A m

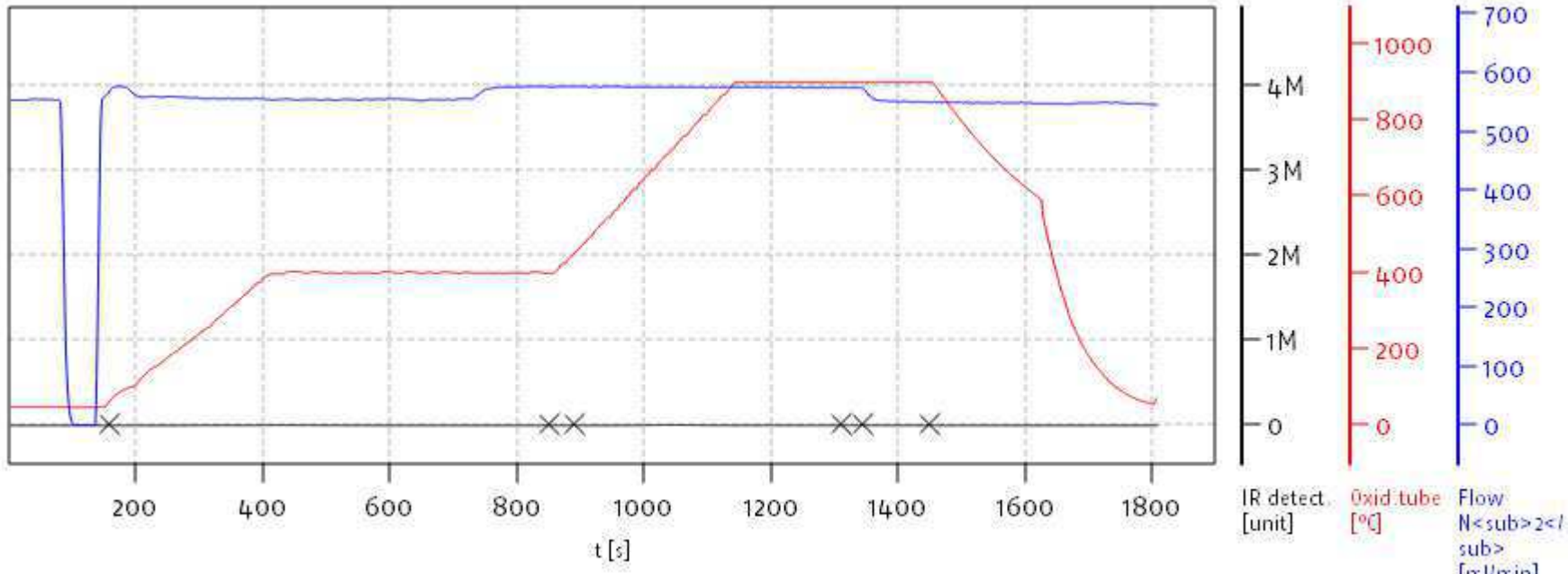
Laboratory:	Analytical Resources, LLC	SDG:	22L0199
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1424064	15.9	0.9988			
Total Carbon	1424064	15.9	0.9988			
Total Inorganic Carbon	1424064	15.9	0.9988			
% Soot	1424064	15.9	0.9988			

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		1.00	CARBON	4/26/2022 11:29 AM	0.000	0.000	0.000	bl	29 049	30 612	3 899	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

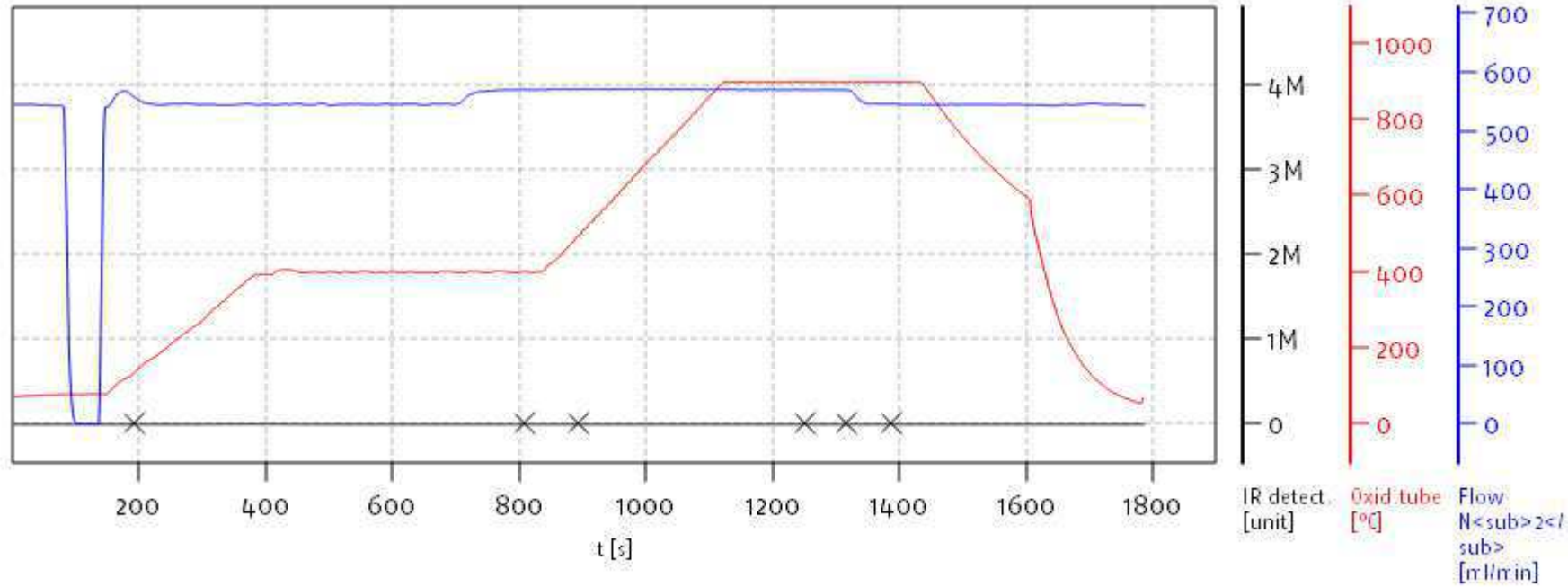
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		1.00	CARBON	4/26/2022 12:00 PM	0.000	0.000	0.000	bl	11 115	60	8	1.0000	1.0000



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Date: Wed Apr 27 11:07:12 2022

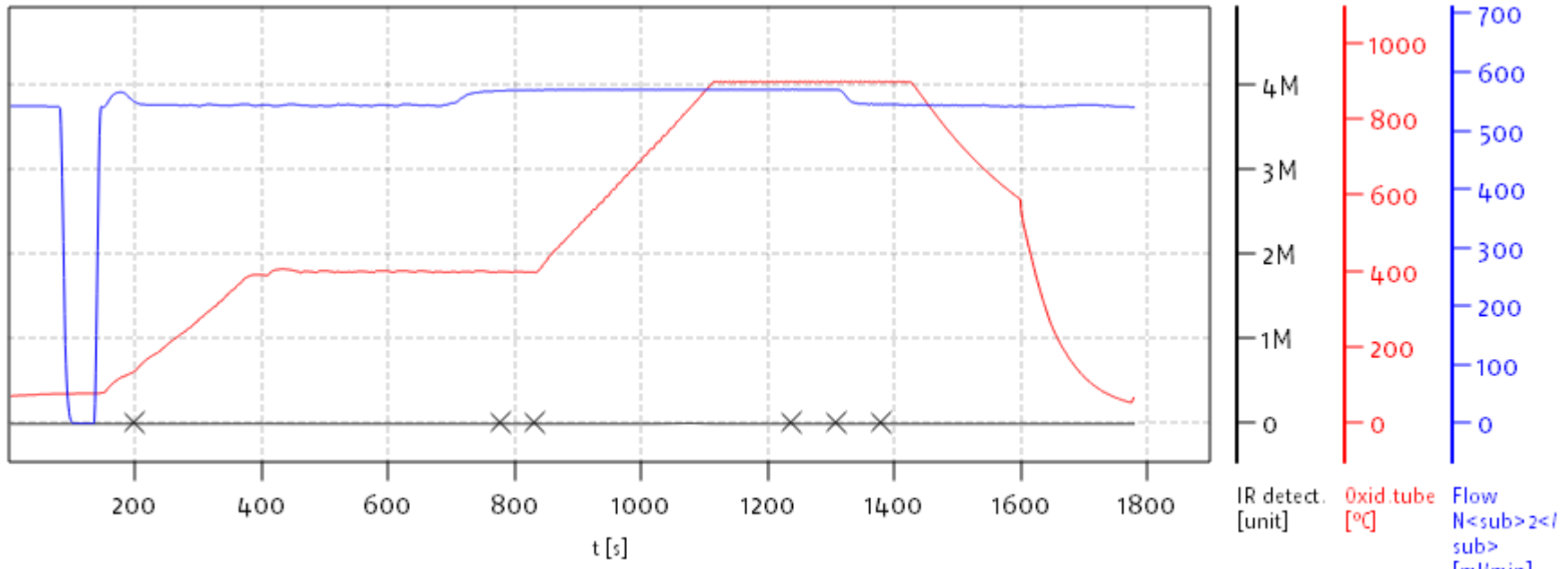
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	3	SEQ-CAL1	200.00	0.0027	1.00	CARBON	4/26/2022 12:30 PM	0.010	0.008	0.018	bl,C1u,C2u	7 294	11 739	22	1.0000	0.7425



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Serial No: 0300.181017
Mode CCC

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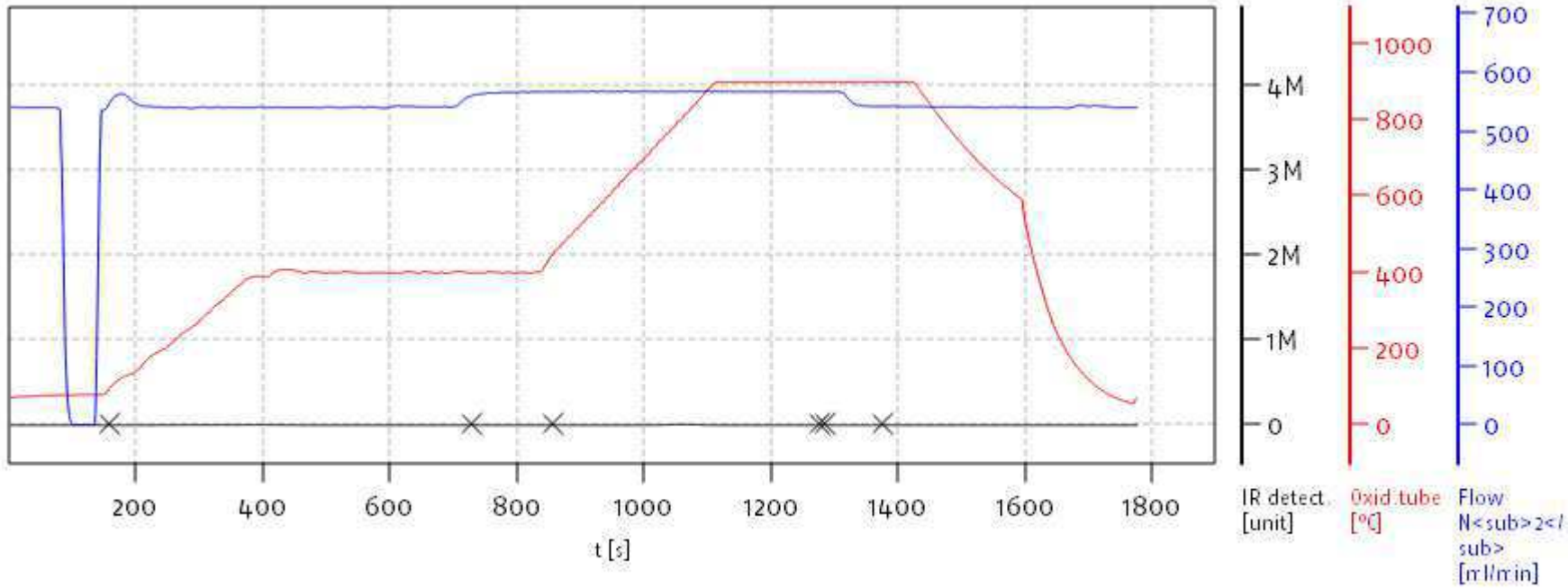
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	4	SEQ-CAL2	200.00	0.0049	1.00	CARBON	4/26/2022 1:00 PM	0.023	0.015	0.038	bl,C2u	23 296	19 107	47	1.0000	0.8936



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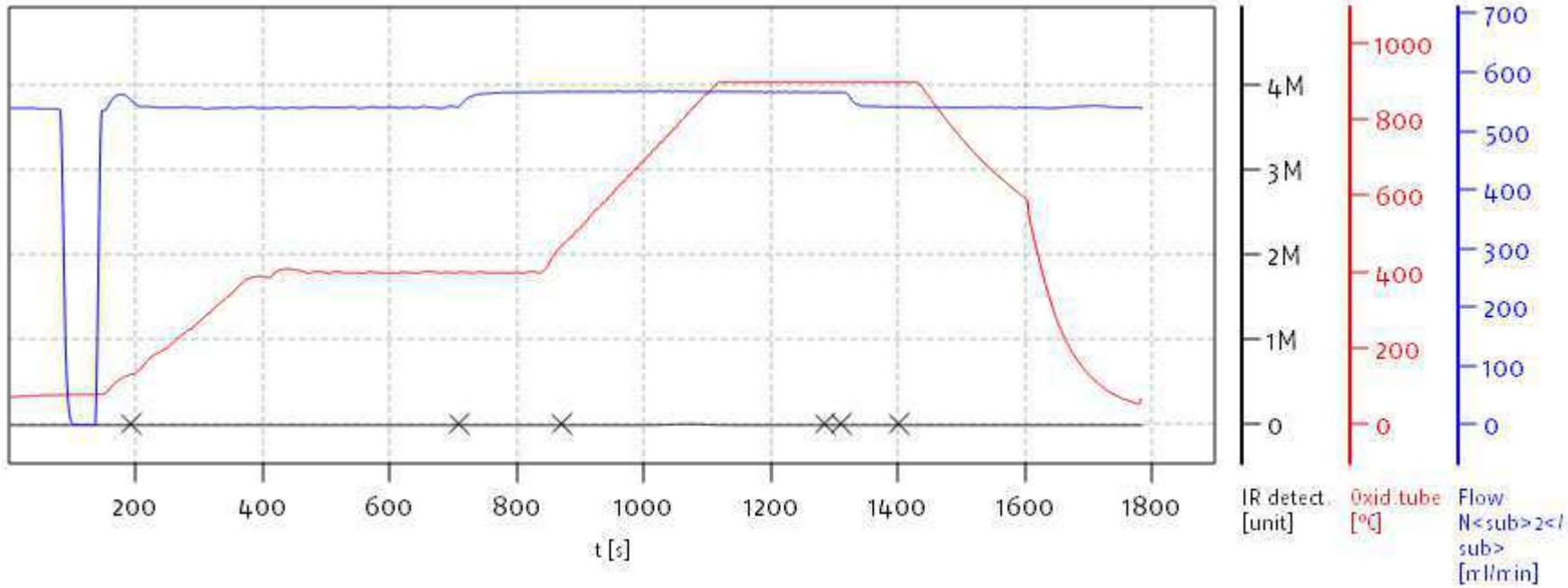
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	5	SEQ-CAL3	200.00	0.0071	1.00	CARBON	4/26/2022 1:30 PM	0.006	0.022	0.028	bl,C1u,C2u	2 319	27 530	170	1.0000	0.9343



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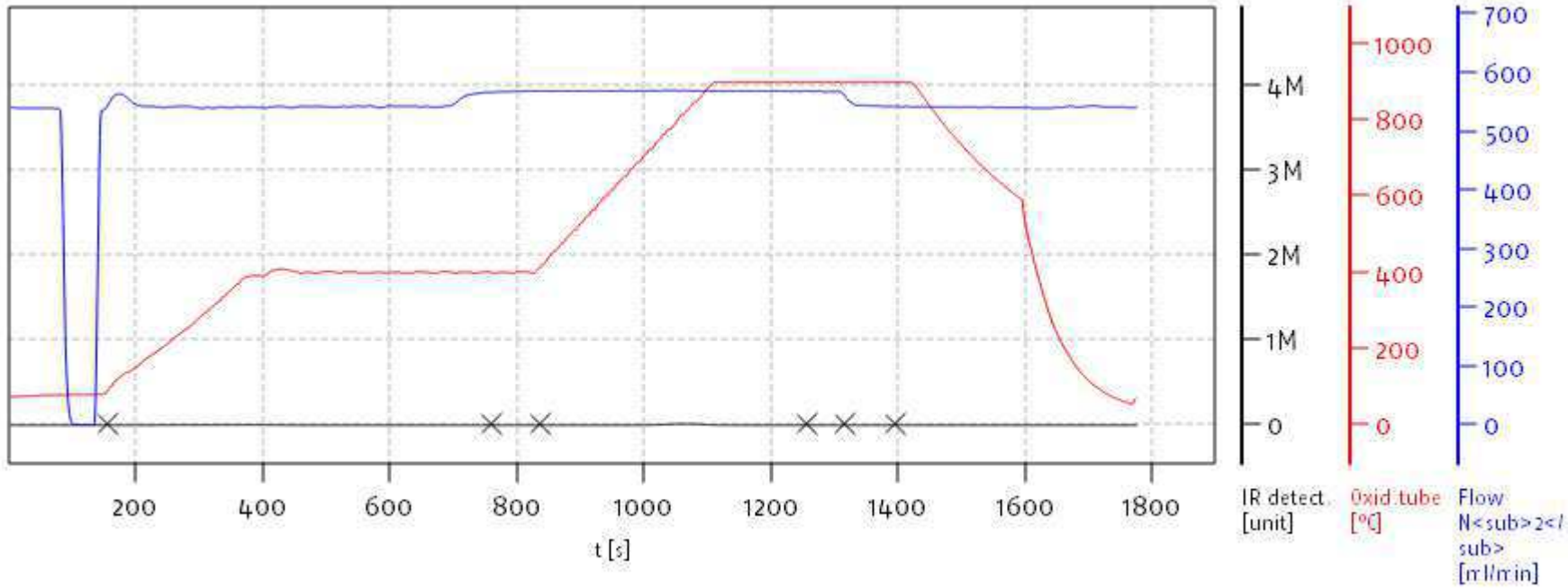
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	6	SEQ-CAL4	200.00	0.0098	1.00	CARBON	4/26/2022 2:00 PM	0.020	0.030	0.050	bl,C2u	19 746	38 017	109	1.0000	0.9461



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Date: Wed Apr 27 11:07:12 2022

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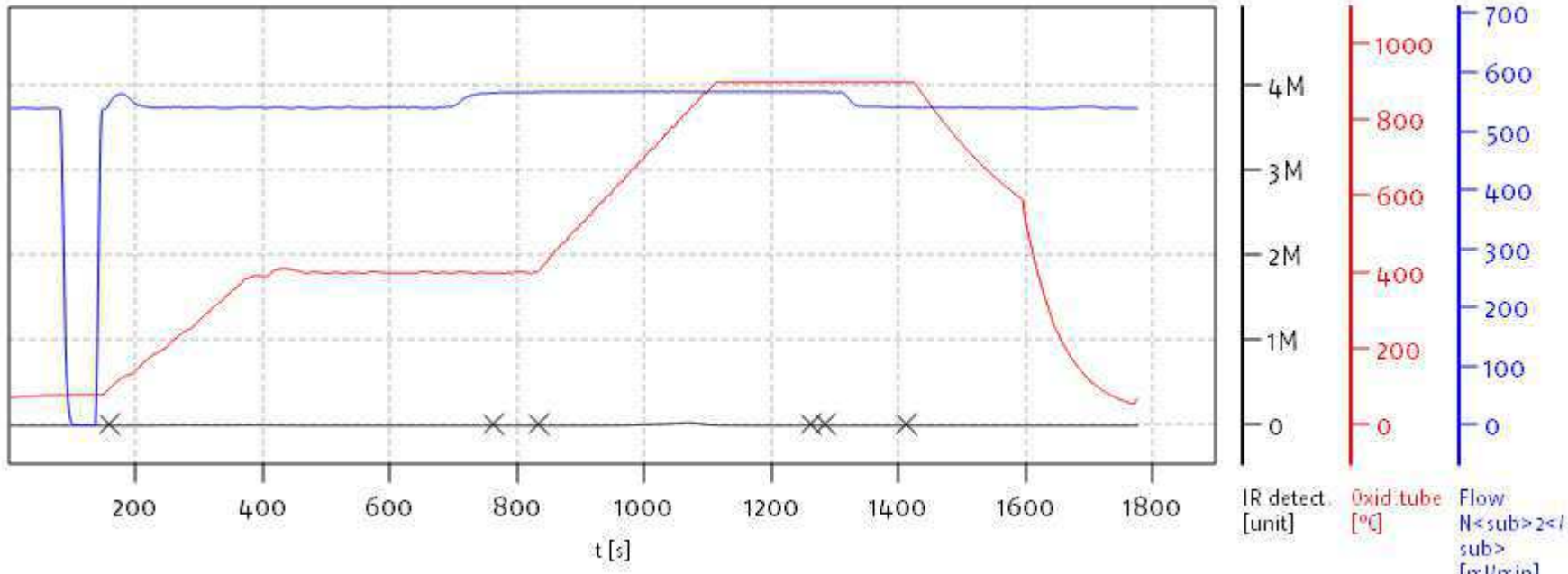
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	7	SEQ-CAL5	200.00	0.0148	1.00	CARBON	4/26/2022 2:30 PM	0.021	0.045	0.066	bl,C2u	20 951	92 945	236	1.0000	0.5975



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Date: Wed Apr 27 11:07:12 2022

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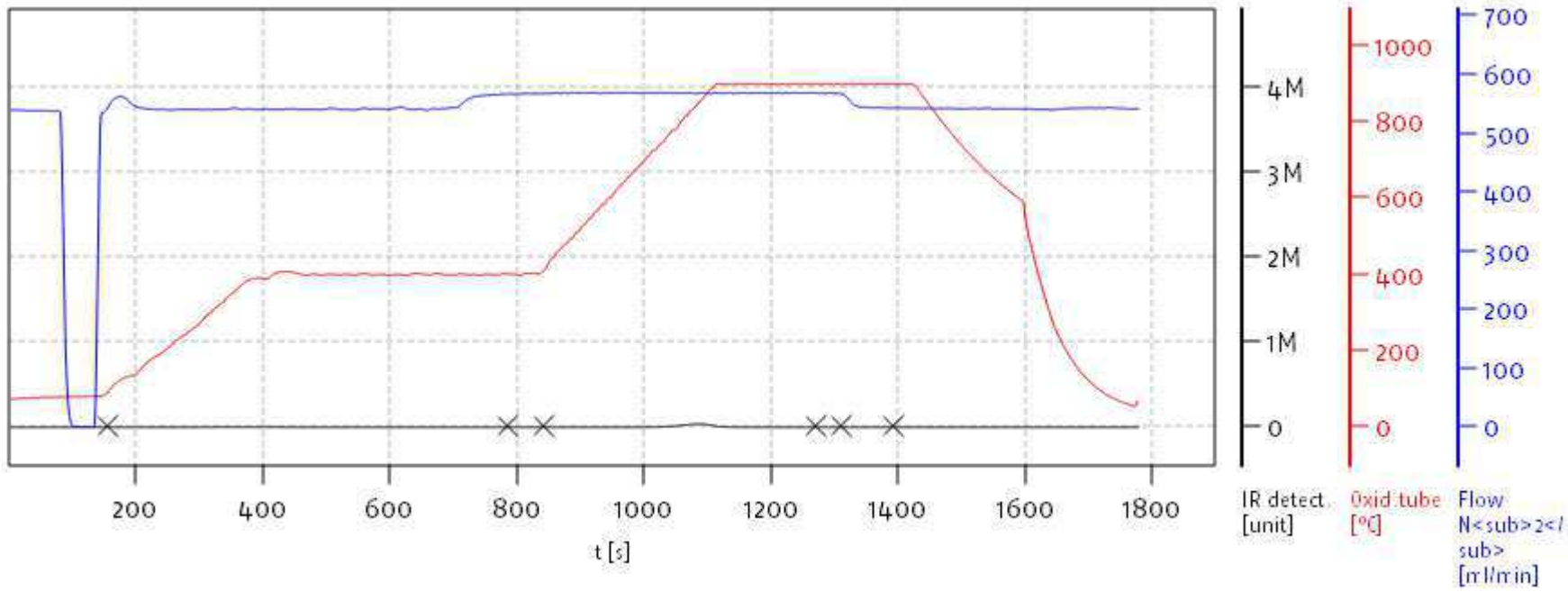
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	8	SEQ-CAL6	200.00	0.0196	1.00	CARBON	4/26/2022 3:00 PM	0.012	0.061	0.073	bl,C2u	10 118	82 297	59	1.0000	0.9144



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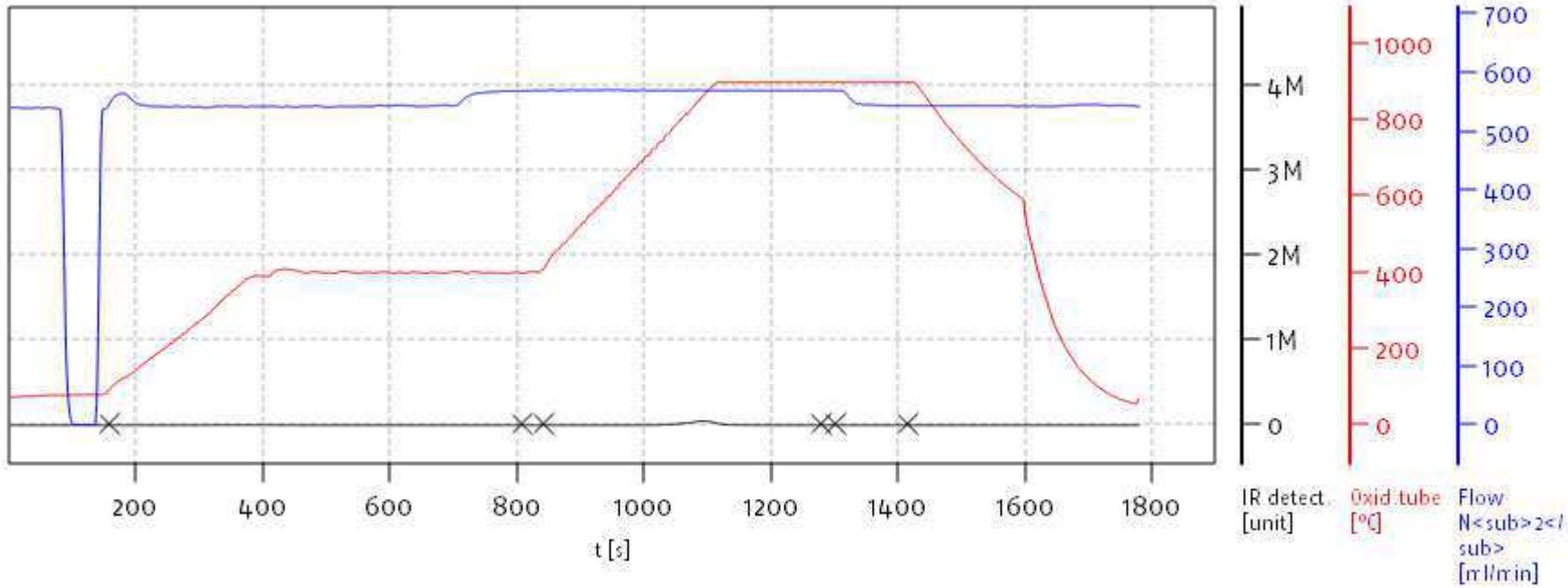
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	9	SEQ-CAL7	200.00	0.0247	1.00	CARBON	4/26/2022 3:30 PM	0.013	0.075	0.088	bl,C2u	10 555	101 530	292	1.0000	0.9173



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

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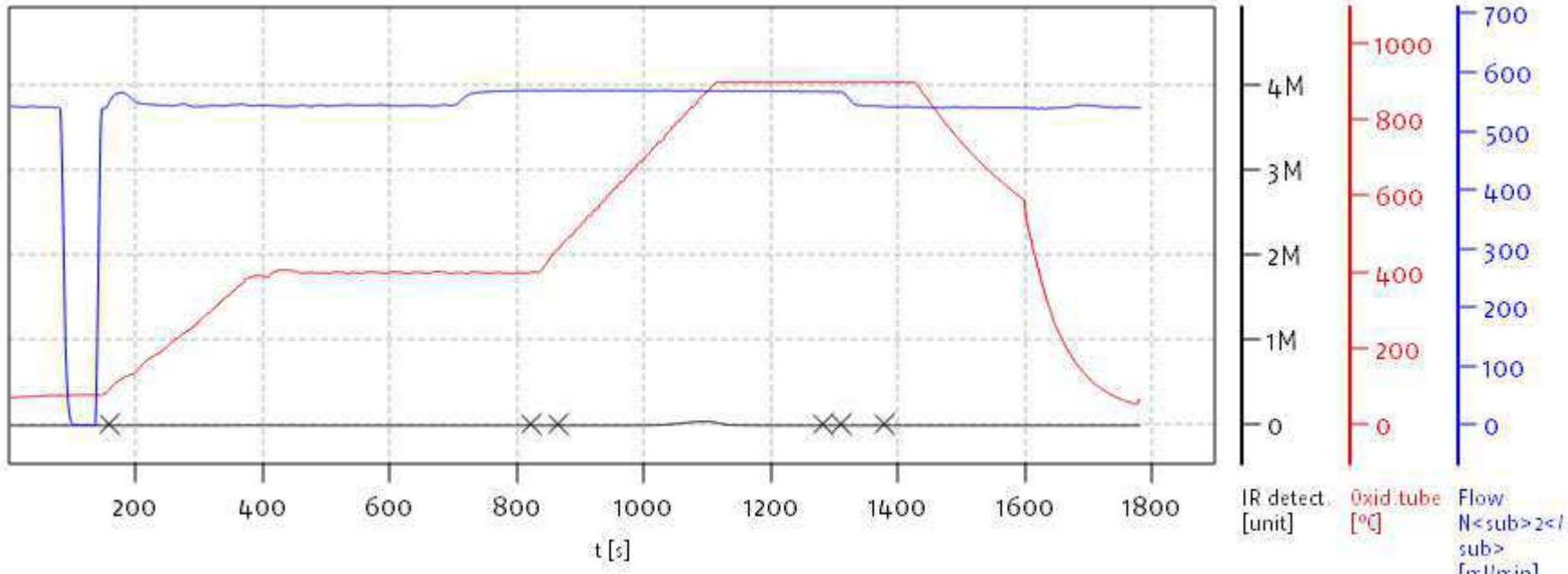
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	10	SEQ-CAL8	200.00	0.0298	1.00	CARBON	4/26/2022 4:00 PM	0.009	0.091	0.100	bl,C1u,C2u	6 668	120 822	116	1.0000	0.9312



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

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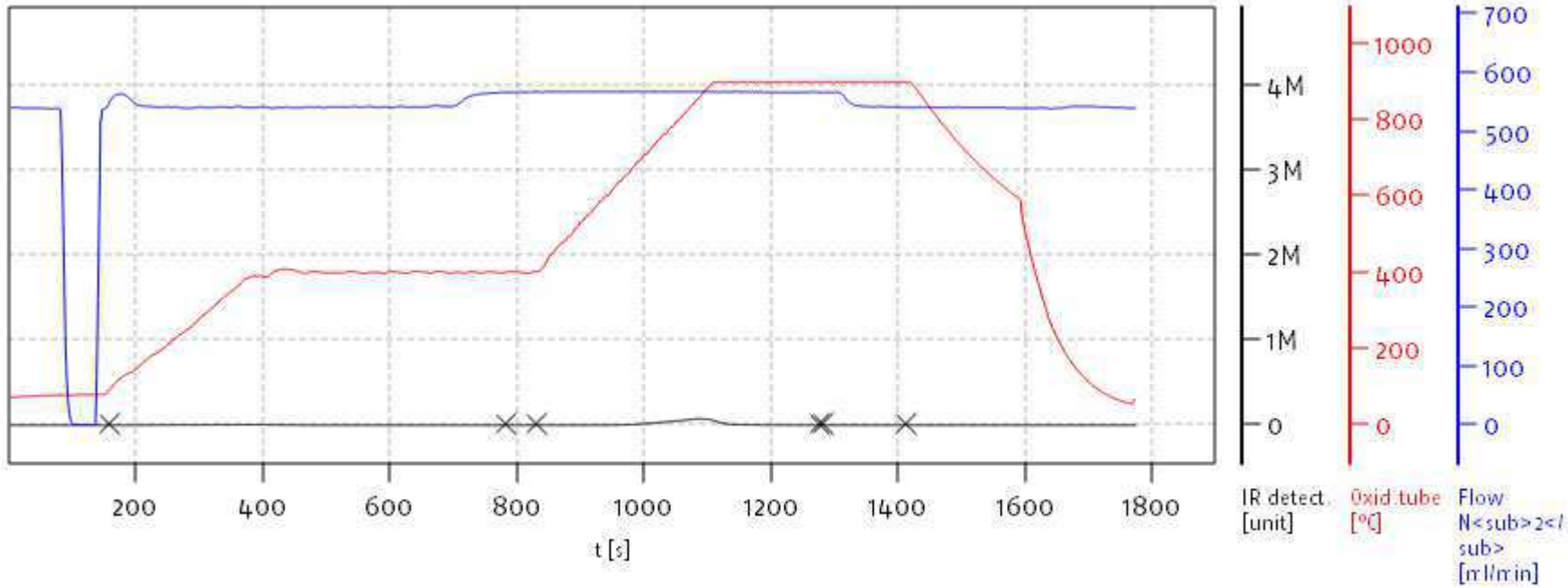
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	11	SEQ-CAL9	200.00	0.0402	1.00	CARBON	4/26/2022 4:30 PM	0.031	0.120	0.151	bl,C2u	32 999	260 234	1 044	1.0000	0.5792



Name:

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Date: Wed Apr 27 11:07:12 2022

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Serial No: 0300.181017
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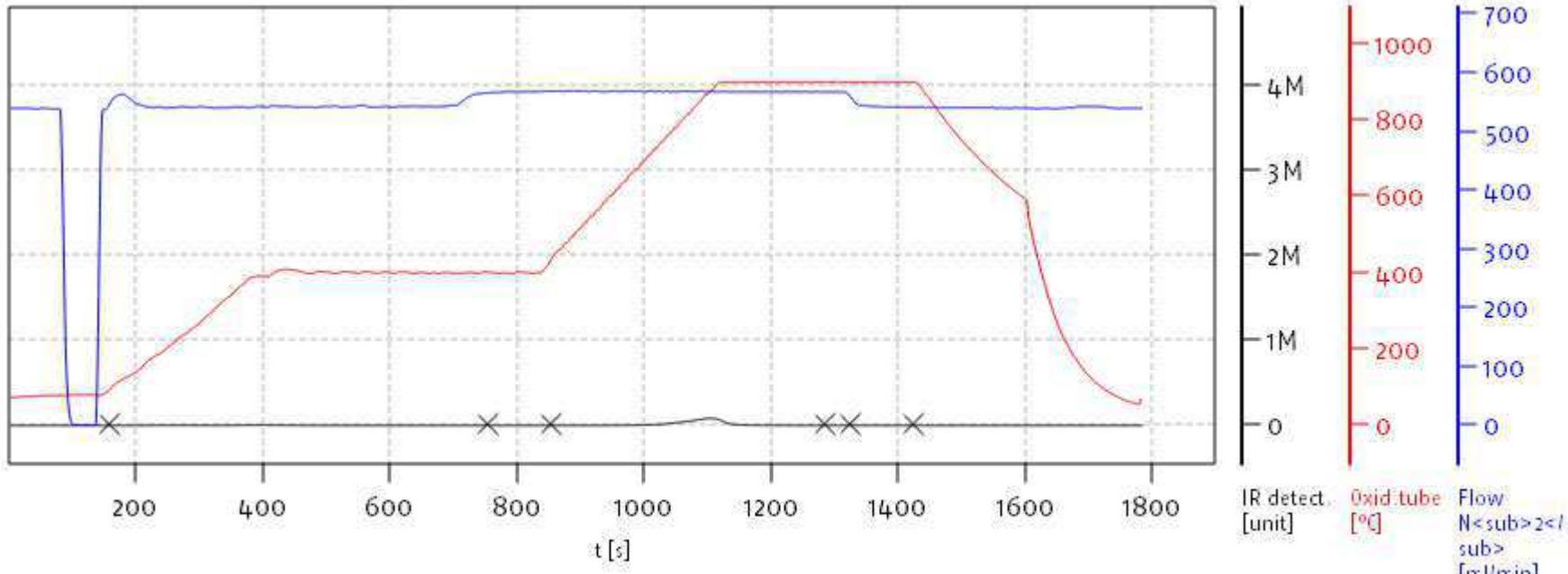
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	12	SEQ-CALA	200.00	0.0500	1.00	CARBON	4/26/2022 5:00 PM	0.021	0.151	0.172	bl,C2u	20 147	233 779	913	1.0000	0.8099



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Mode CCC

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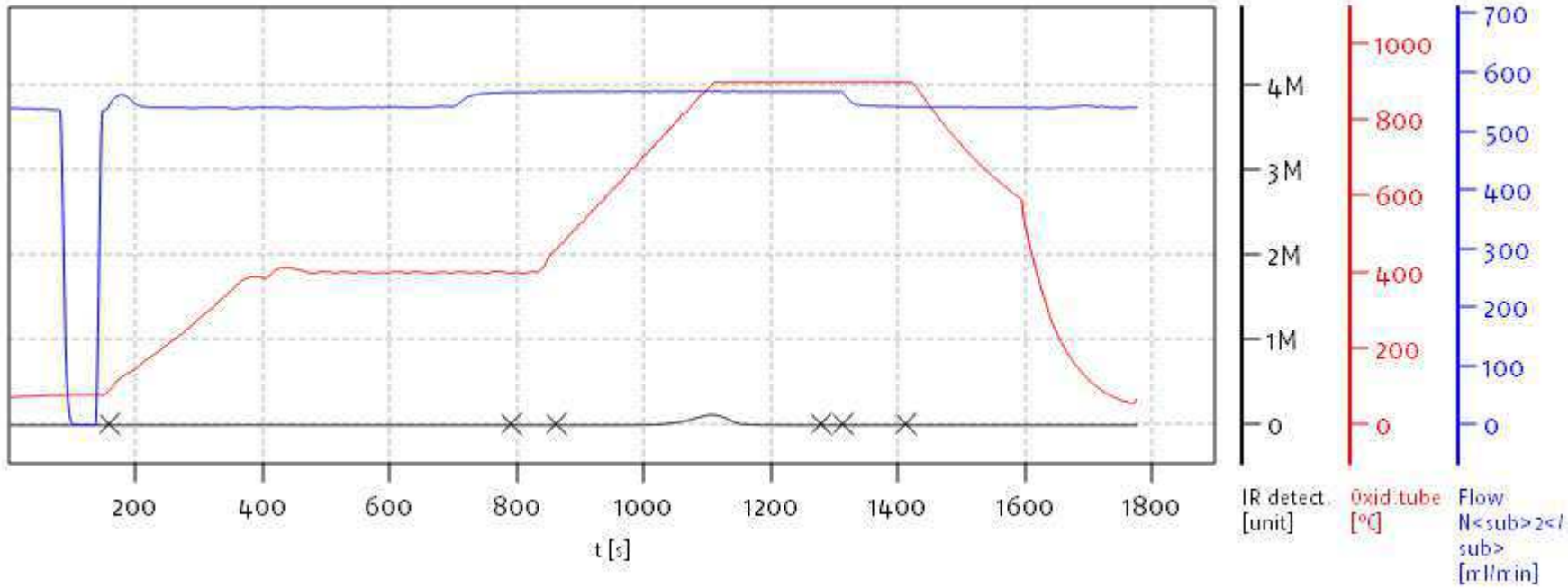
Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	13	SEQ-CALB	200.00	0.0040	1.00	CARBON	4/26/2022 5:30 PM	0.010	0.258	0.268	bl,C1u,C2u	7 070	323 151	663	1.0000	1.0048



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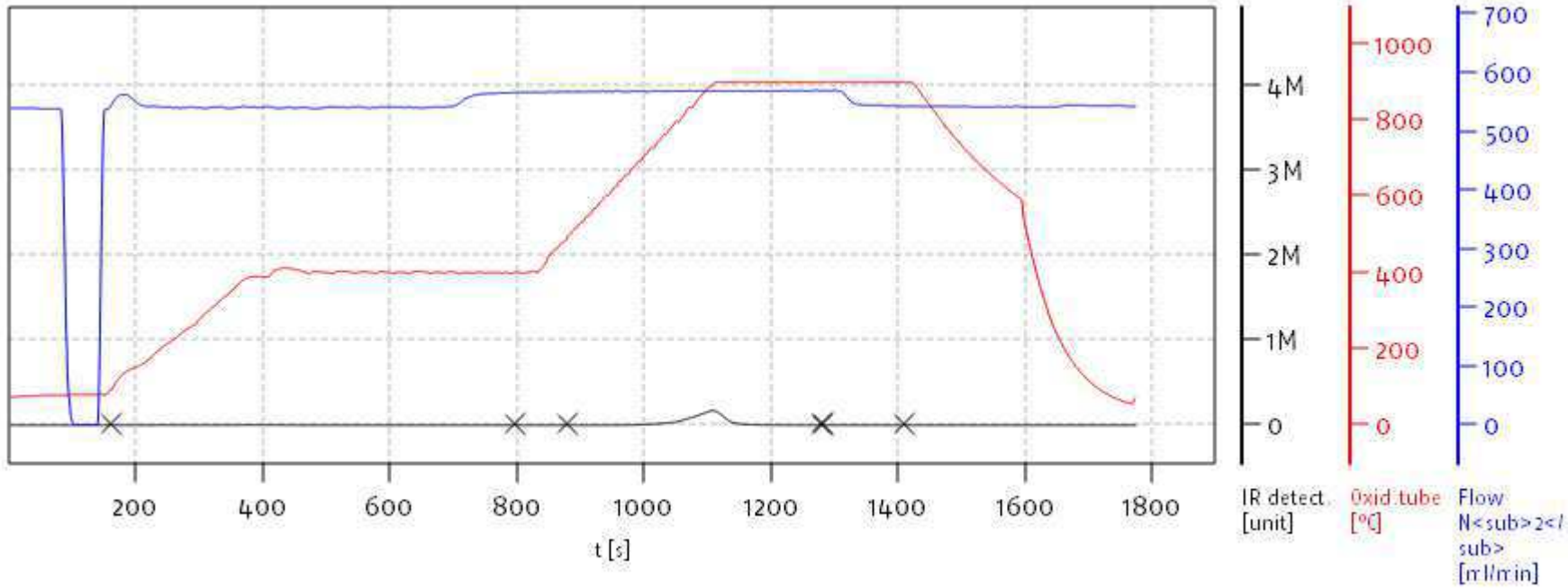
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	14	SEQ-CALC	200.00	0.0048	1.00	CARBON	4/26/2022 6:00 PM	0.015	0.324	0.339	bl,C2u	13 785	411 879	575	1.0000	0.9917



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Date: Wed Apr 27 11:07:12 2022

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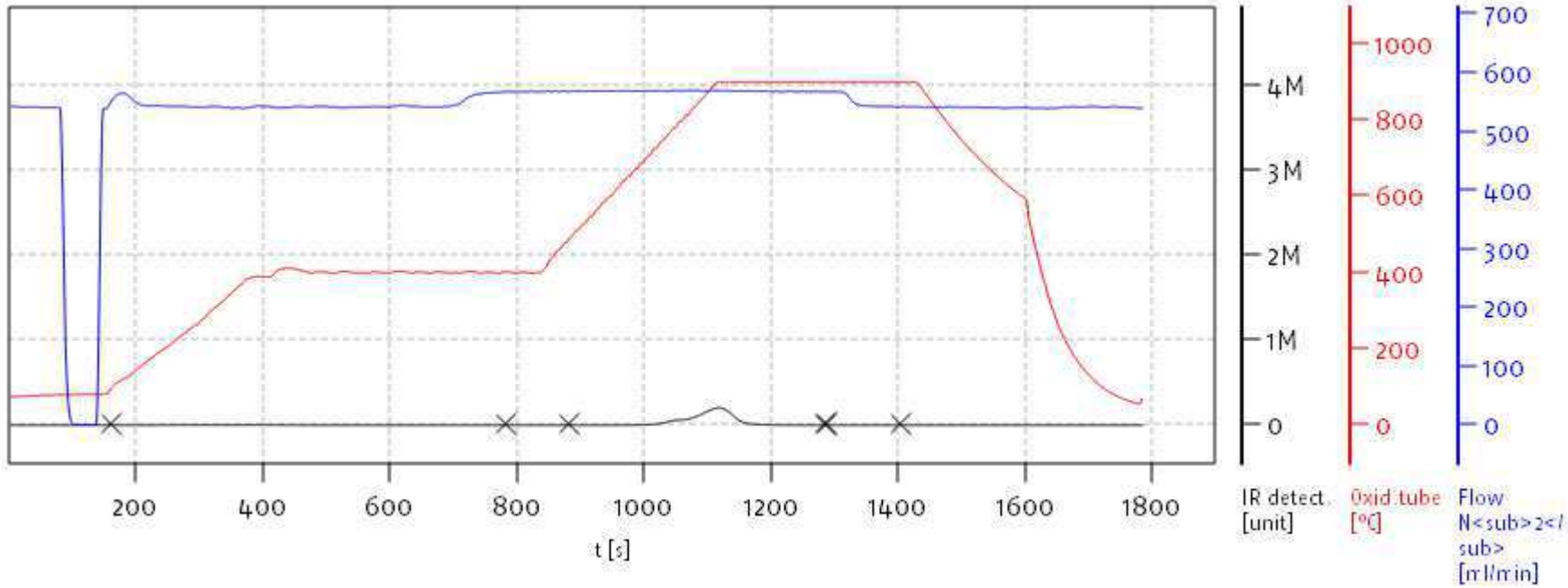
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	15	SEQ-CALD	200.00	0.0069	1.00	CARBON	4/26/2022 6:30 PM	0.019	0.444	0.463	bl,C2u	18 465	553 540	263	1.0000	1.0129



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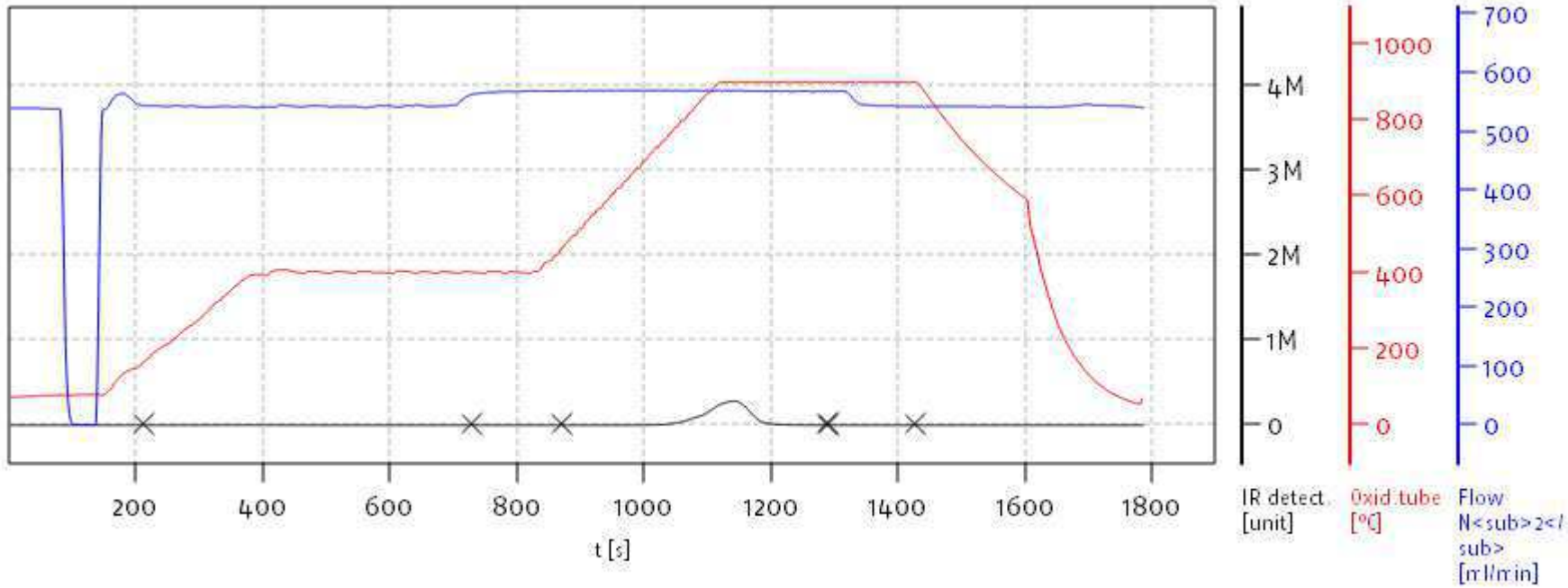
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	16	SEQ-CALE	200.00	0.0101	1.00	CARBON	4/26/2022 7:00 PM	0.009	0.600	0.609	bl,C1u,C2u	5 485	839 878	536	1.0000	0.9036



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

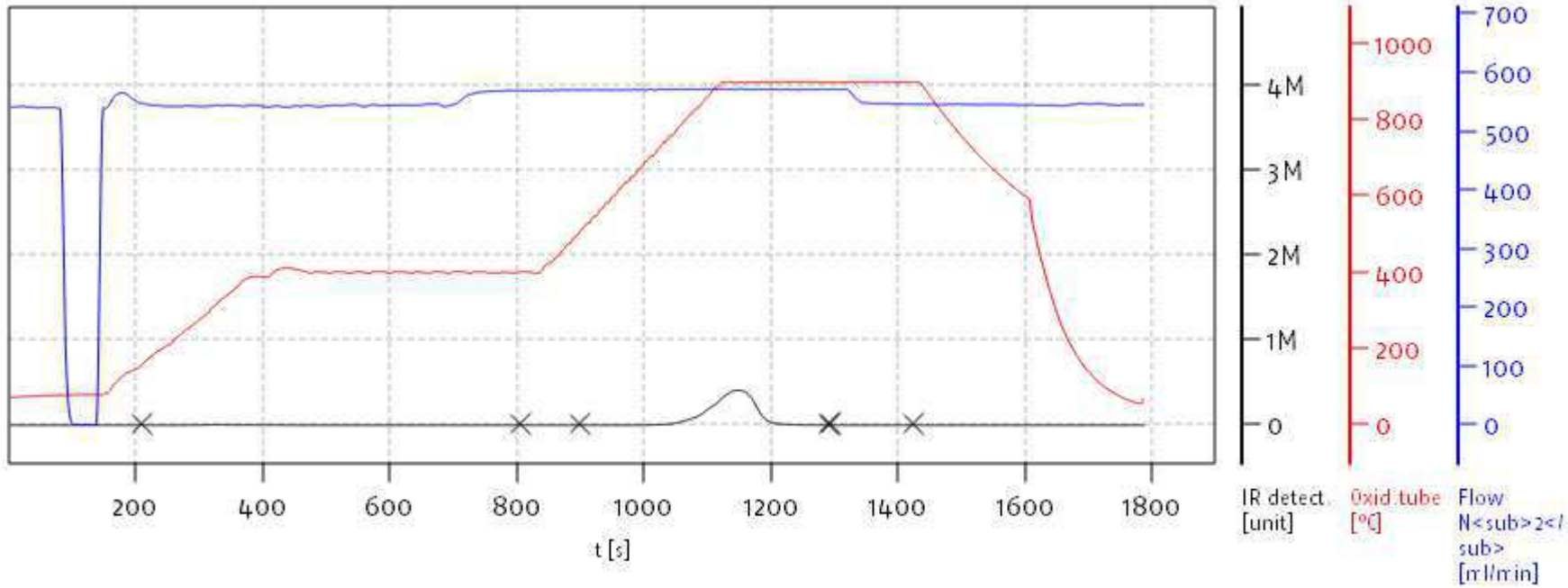
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	17	SEQ-CALF	200.00	0.0149	1.00	CARBON	4/26/2022 7:31 PM	0.019	0.906	0.925	bl,C2u	17 439	1 236 200	814	1.0000	0.9279



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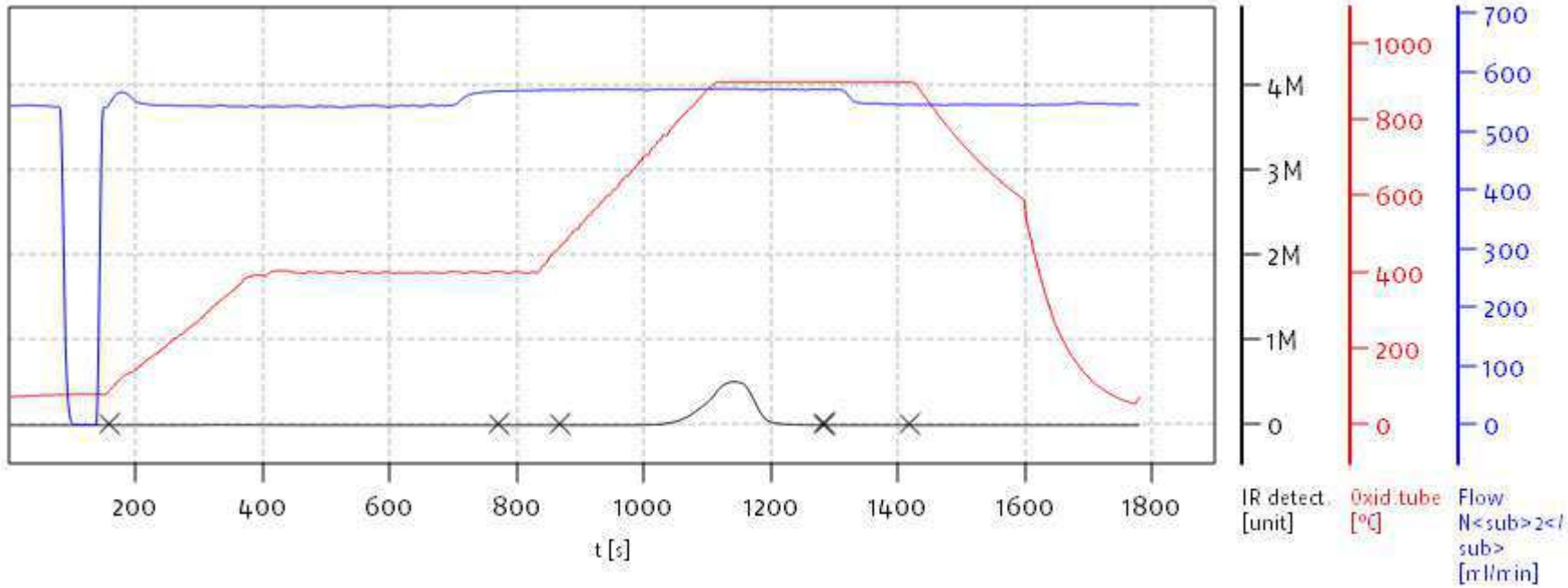
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	18	SEQ-CALG	200.00	0.0198	1.00	CARBON	4/26/2022 8:01 PM	0.015	1.206	1.221	bl,C2u	12 557	1 639 190	1 295	1.0000	0.9320



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Serial No: 0300.181017
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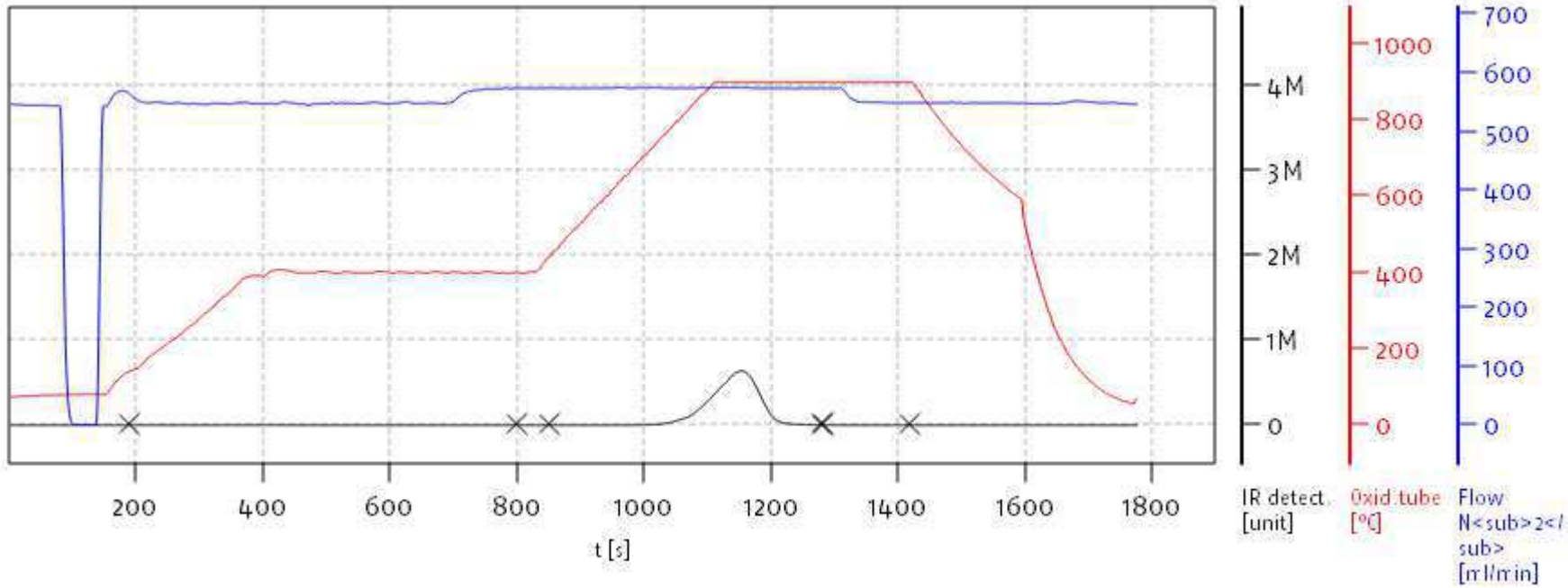
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	19	SEQ-CALH	200.00	0.0250	1.00	CARBON	4/26/2022 8:31 PM	0.009	1.524	1.533	bl,C1u,C2u	4 029	2 063 890	2 225	1.0000	0.9357



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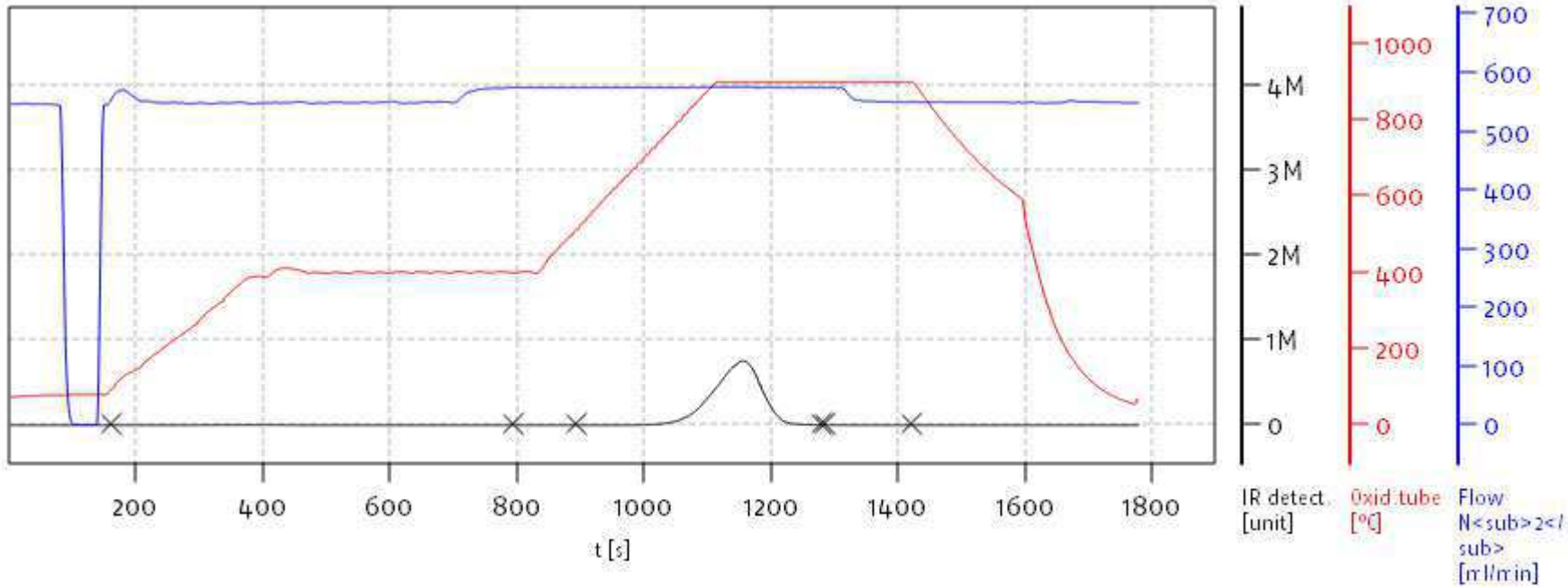
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	20	SEQ-CALI	200.00	0.0303	1.00	CARBON	4/26/2022 9:01 PM	0.017	1.800	1.817	bl,C2u	13 926	2 495 900	2 903	1.0000	0.9140



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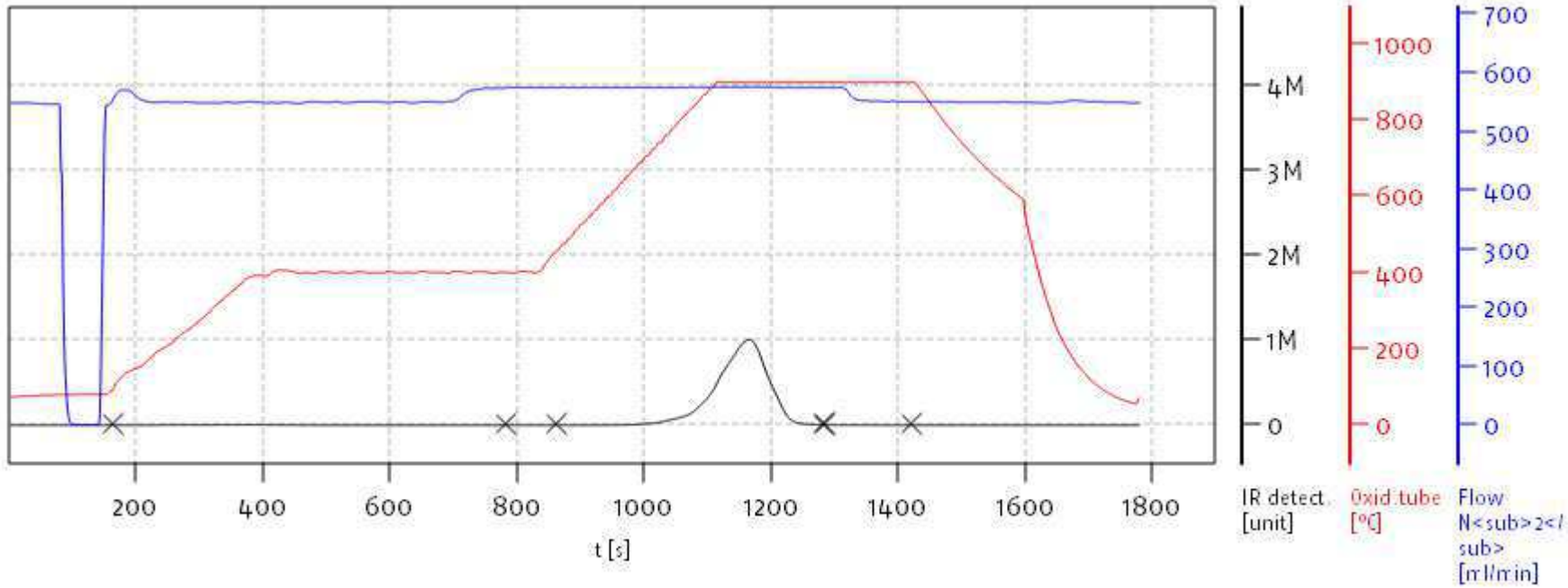
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	21	SEQ-CALJ	200.00	0.0415	1.00	CARBON	4/26/2022 9:31 PM	0.031	2.400	2.431	bl,C2u	28 786	3 482 530	5 351	1.0000	0.8737



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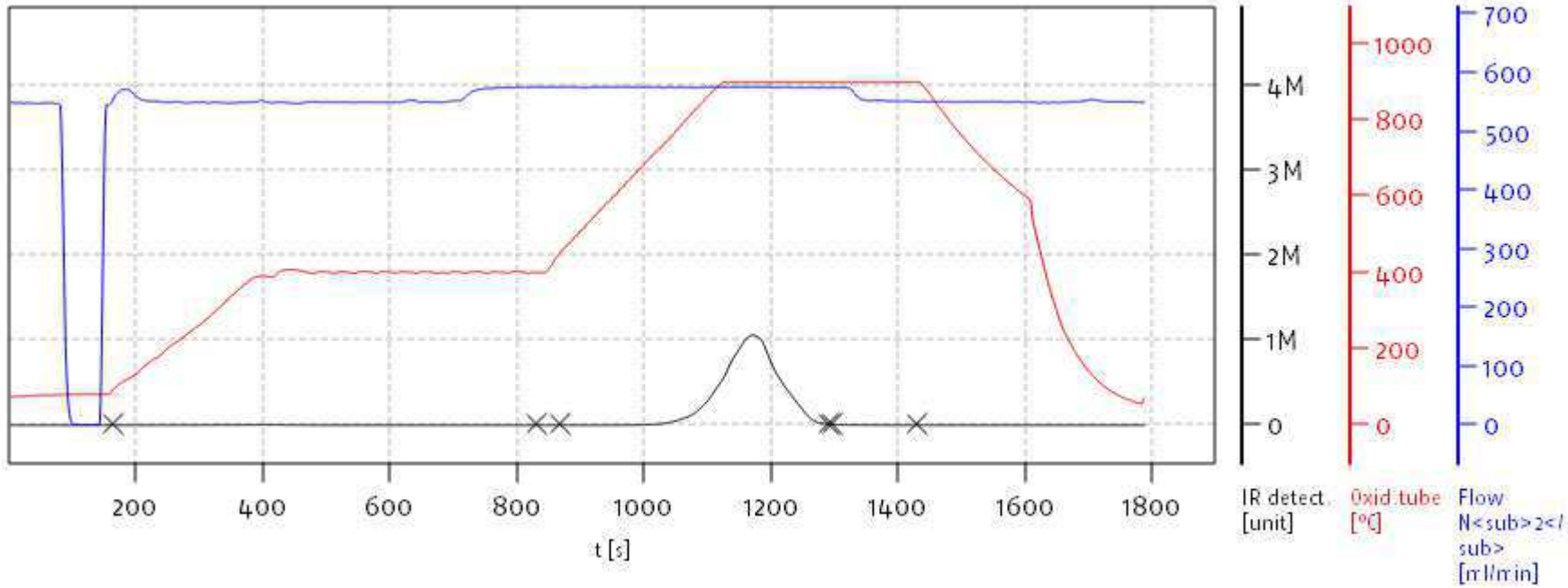
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	22	SEQ-CALK	200.00	0.0497	1.00	CARBON	4/26/2022 10:01 PM	0.031	3.012	3.043	bl	23 732	4 105 830	9 736	1.0000	0.9301



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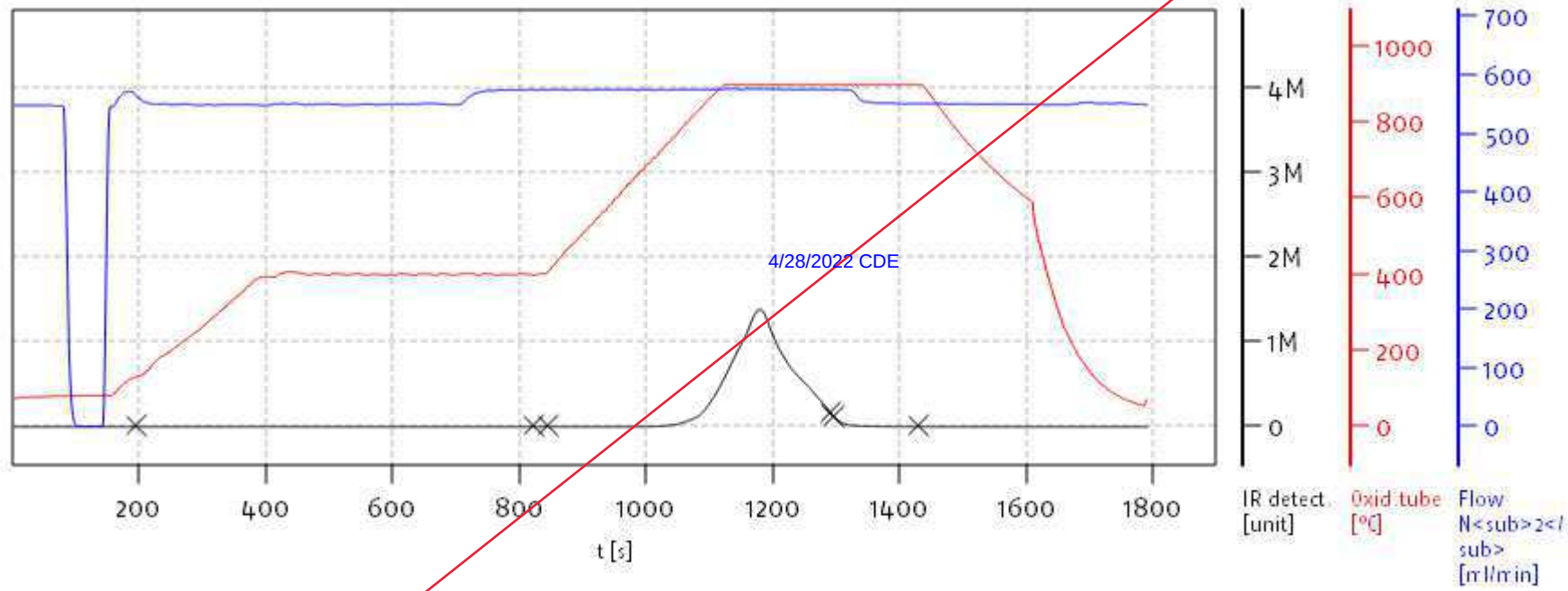
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/26/2022 10:31 PM	0.005	3.805	3.810	bl,C1u	3 605	5 648 620	71 970	1.0000	0.9443



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EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
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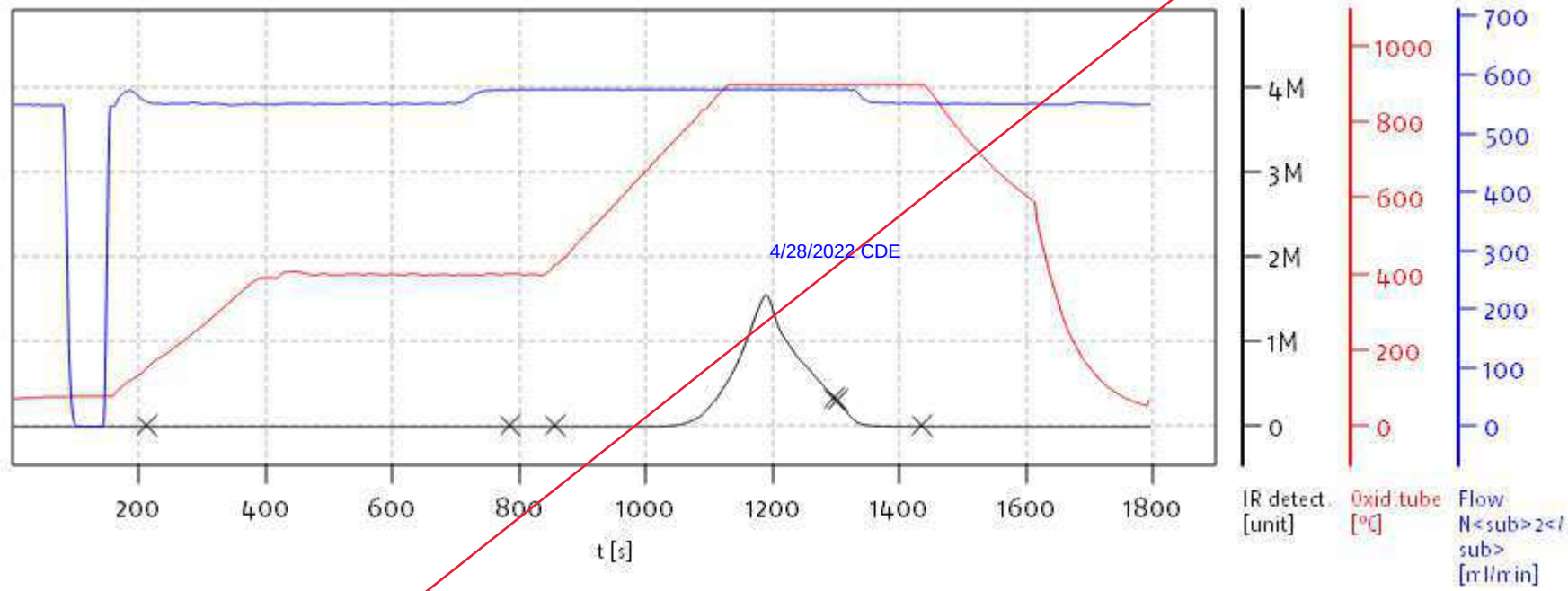
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/26/2022 11:02 PM	0.010	4.637	4.647	bl	10 023	6 397 530	228 171	1.0000	0.9539



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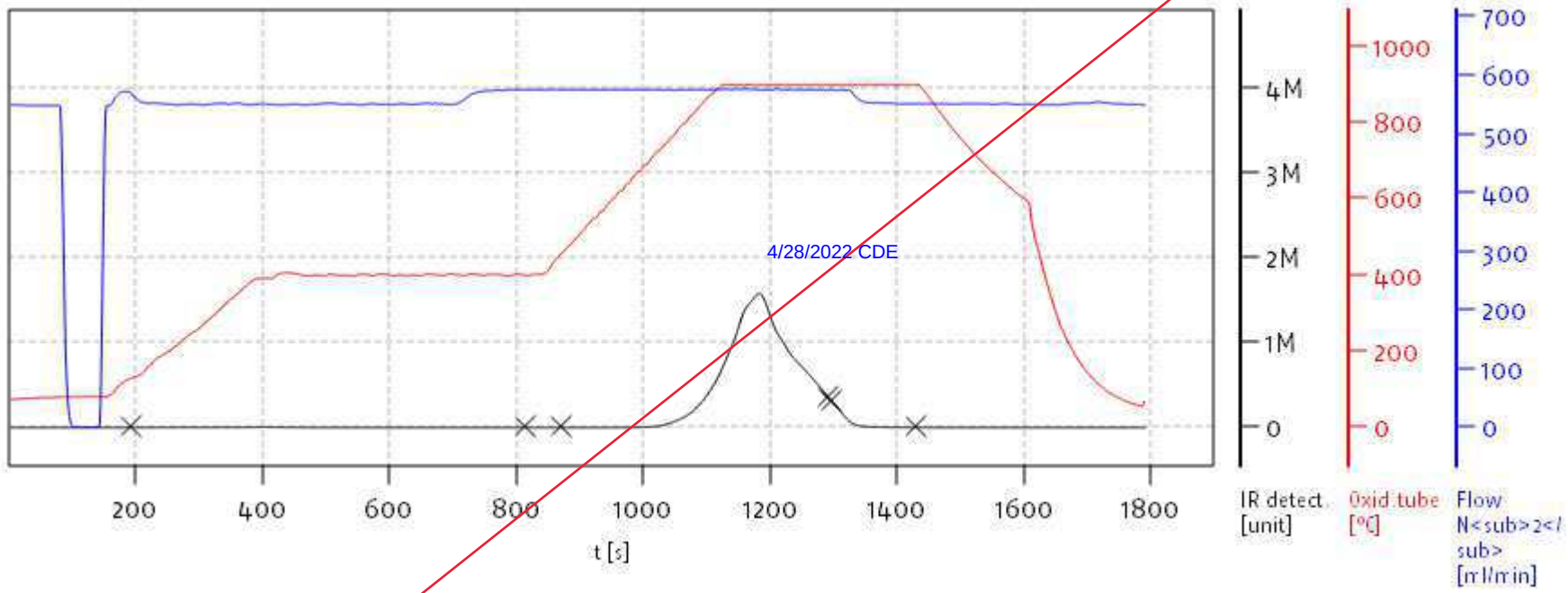
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/26/2022 11:32 PM	0.020	5.219	5.239	bl	23 354	7 186 580	239 986	1.0000	0.9540



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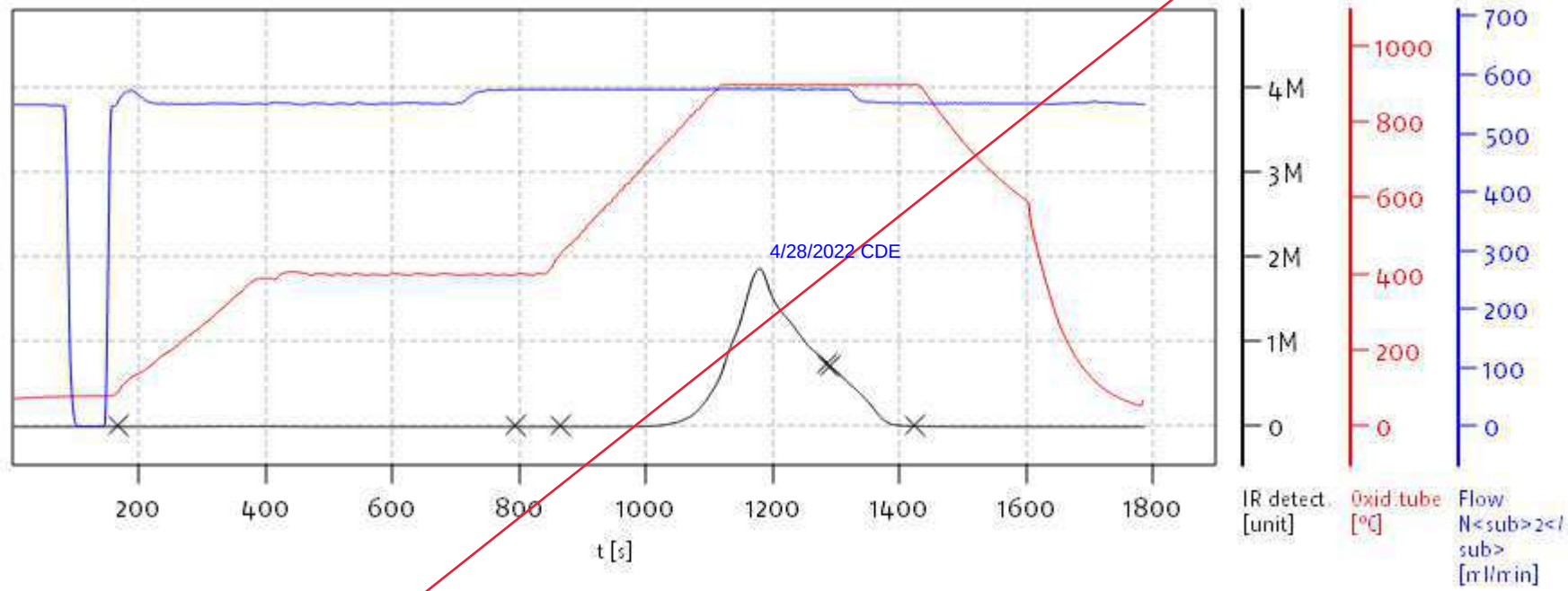
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 12:02 AM	0.019	7.915	7.934	bl,C3o	21 248	8 544 610	1 334 580	1.0000	1.0714



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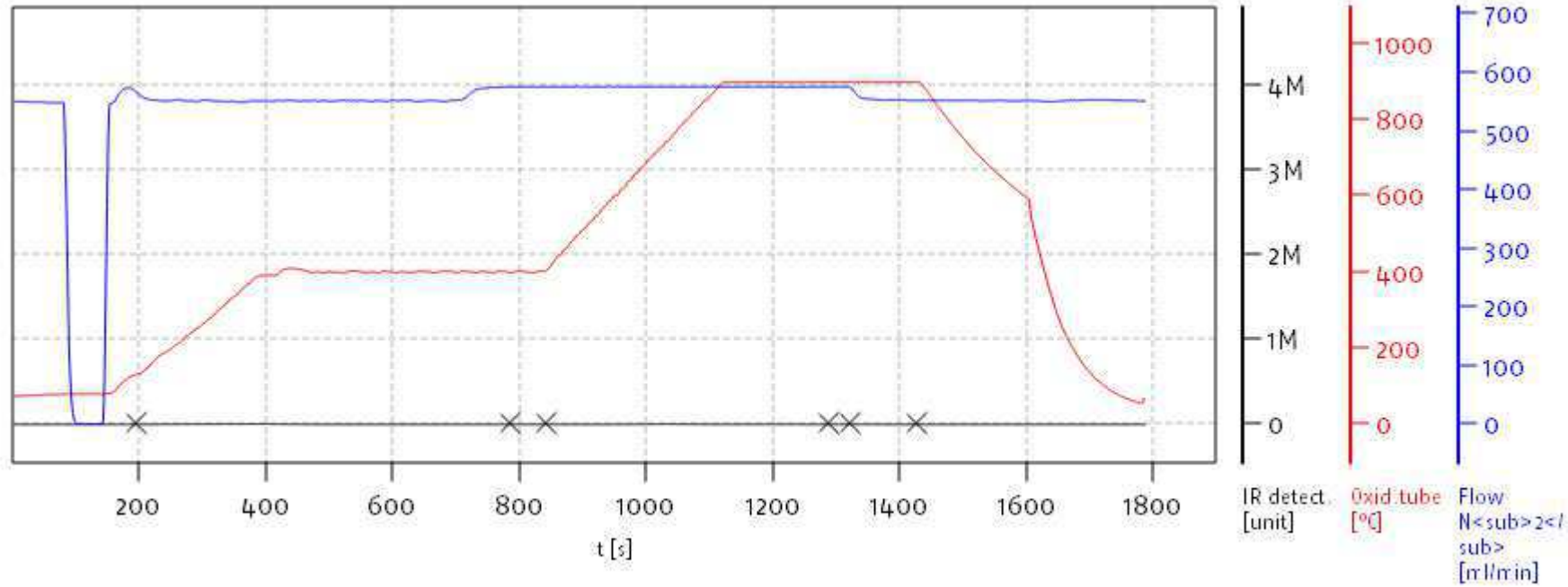
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		1.00	CARBON	4/27/2022 12:32 AM	0.000	0.000	0.000	bl	29 766	19 596	1 205	1.0000	0.9007



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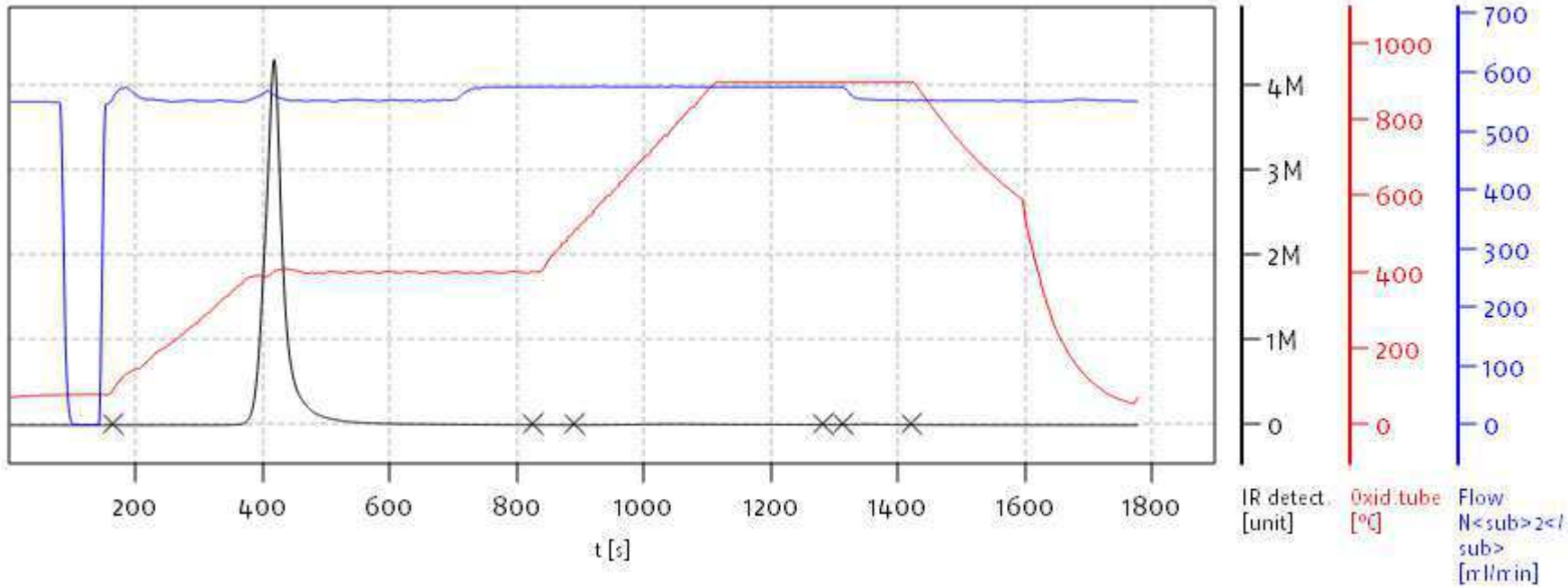
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	28	Dfactor	19.00		1.00	CARBON	4/27/2022 1:02 AM	44.678	0.893	45.571	bl	5 588 680	104 999	25 384	0.9581	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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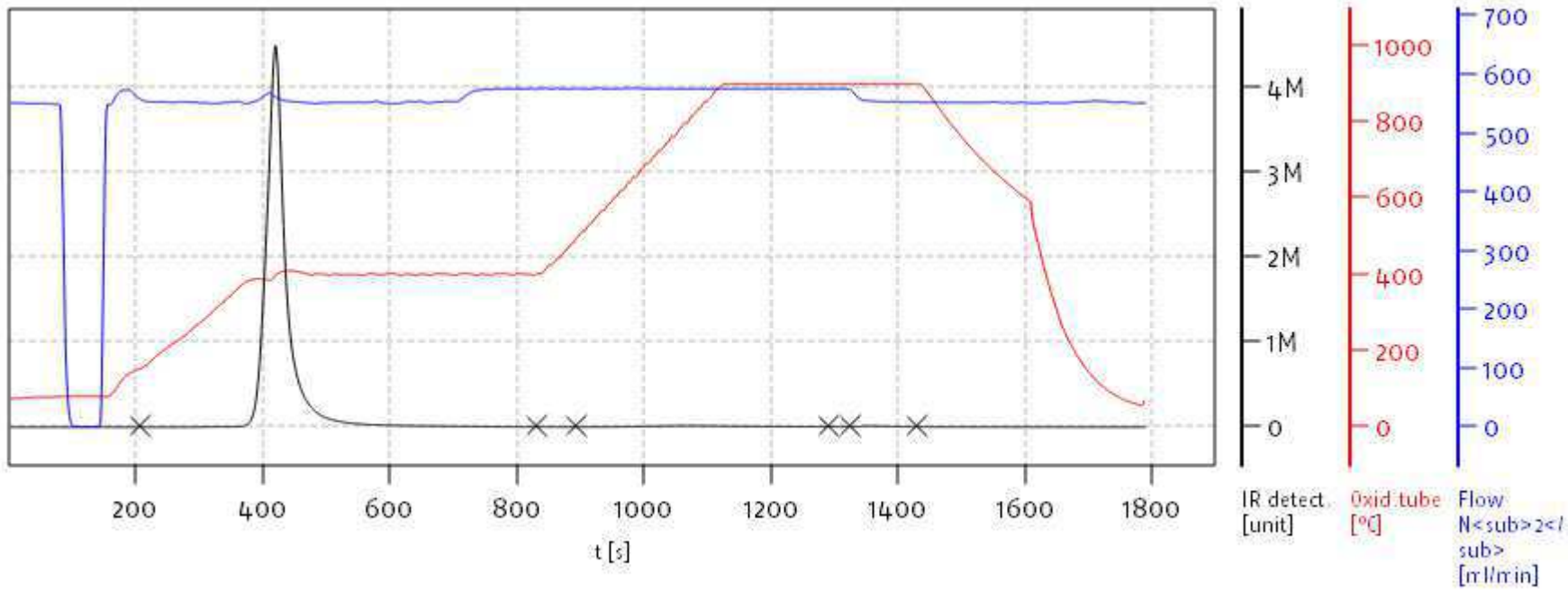
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	29	Dfactor	20.80		1.00	CARBON	4/27/2022 1:32 AM	44.694	0.937	45.631	bl	6 076 750	120 961	30 224	0.9647	1.0000



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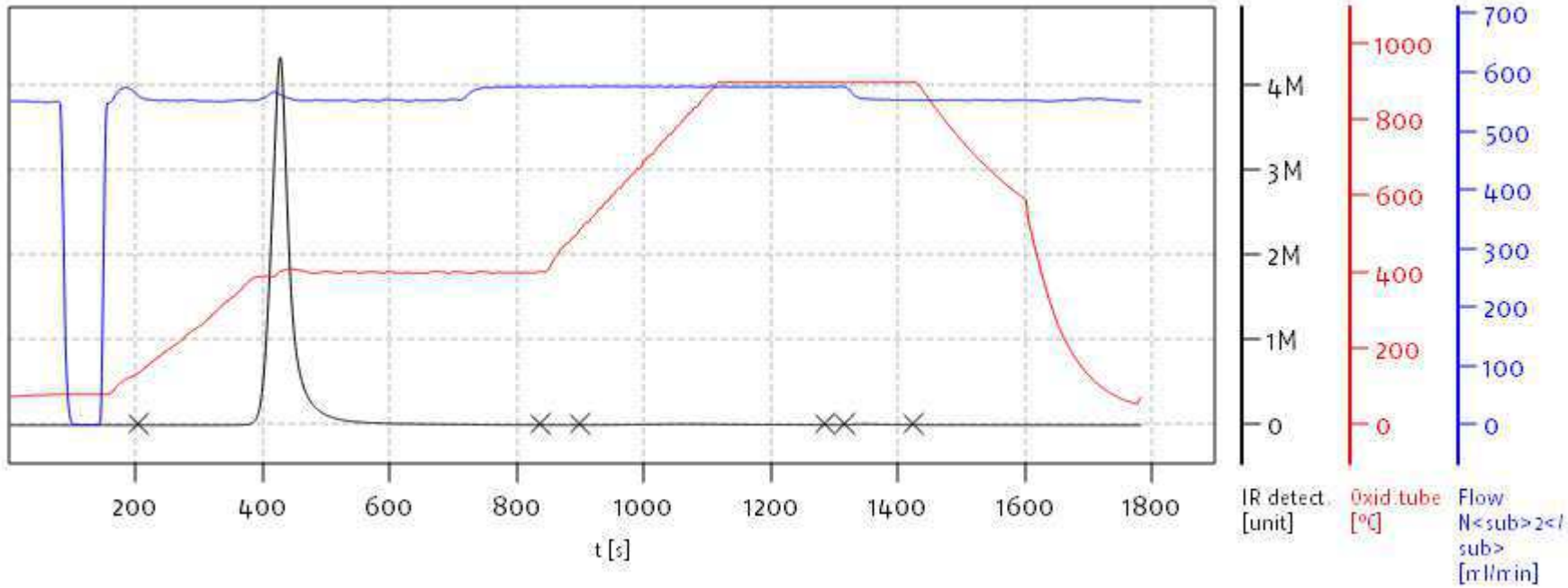
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	30	SEQ-ICV1	19.40		1.00	CARBON	4/27/2022 2:03 AM	44.964	0.742	45.706	bl	5 722 450	98 735	27 054	0.9614	0.9007



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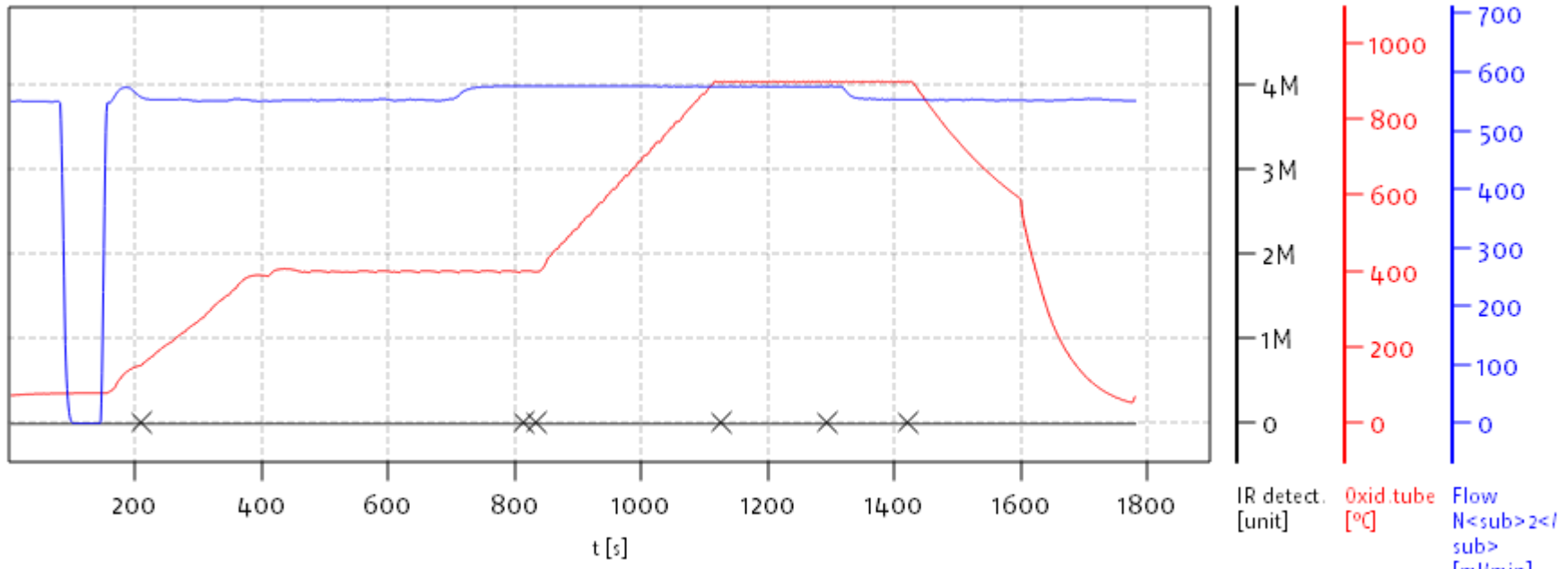
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	31	SEQ-ICB1	501.10		1.00	CARBON	4/27/2022 2:33 AM	0.002	0.001	0.003	bl,C1u,C3u,C2u	2 158	225	165	0.9614	0.9007



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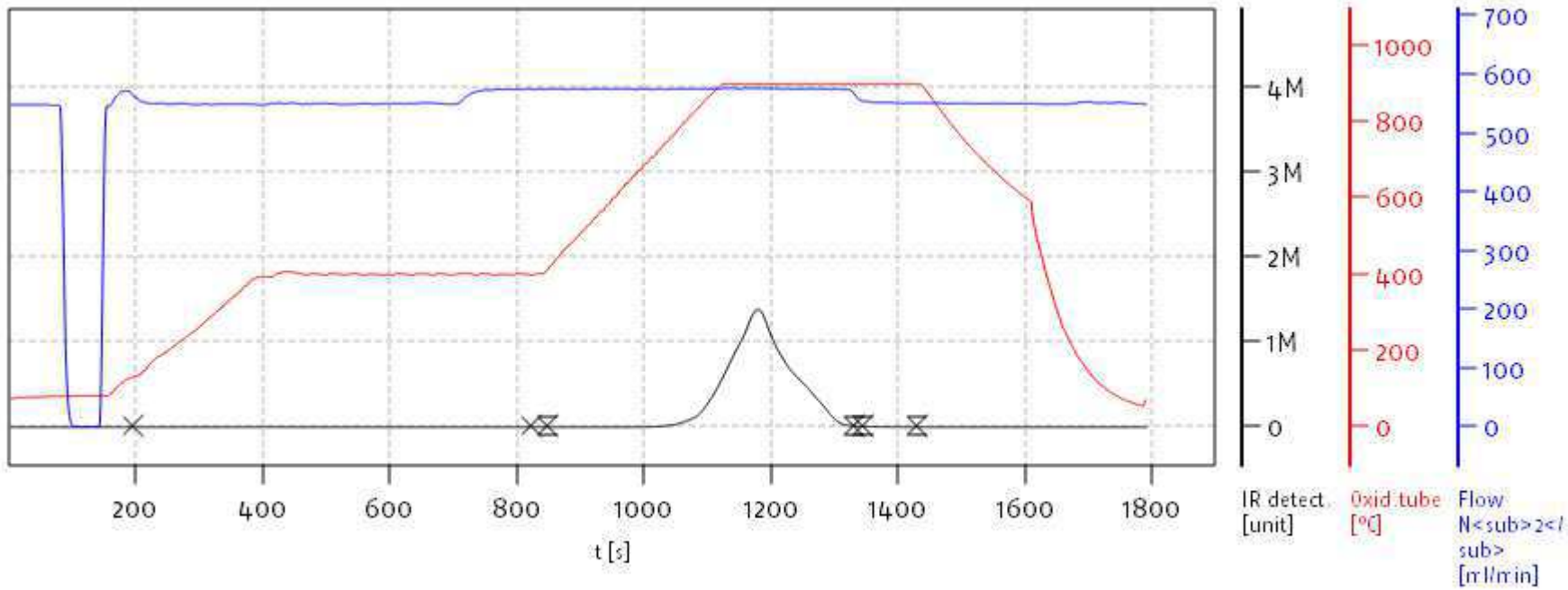
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/27/2022 11:08 AM	0.005	3.917	3.922	bl,C1u	3 605	**5 260 365**	**0**	1.0000	0.9443



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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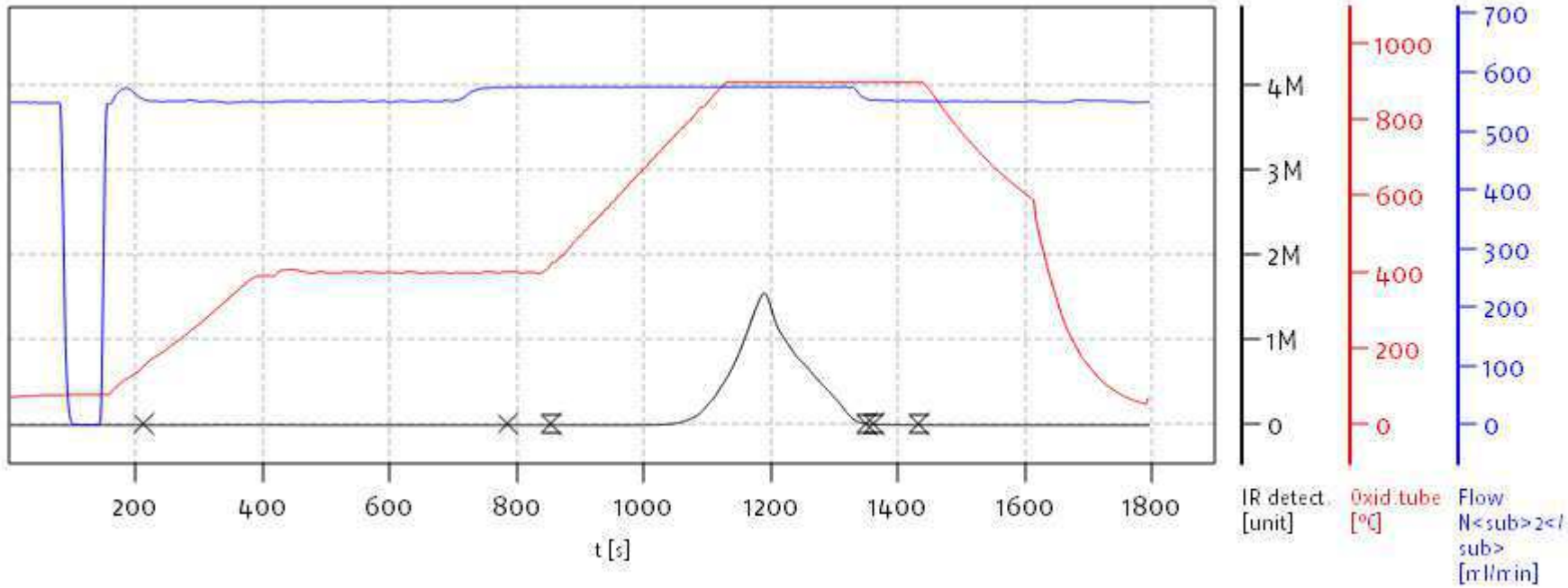
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/27/2022 11:08 AM	0.010	4.637	4.647	bl	10 023	**6 164 833**	**0**	1.0000	0.9539



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

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Serial No: 0300.181017
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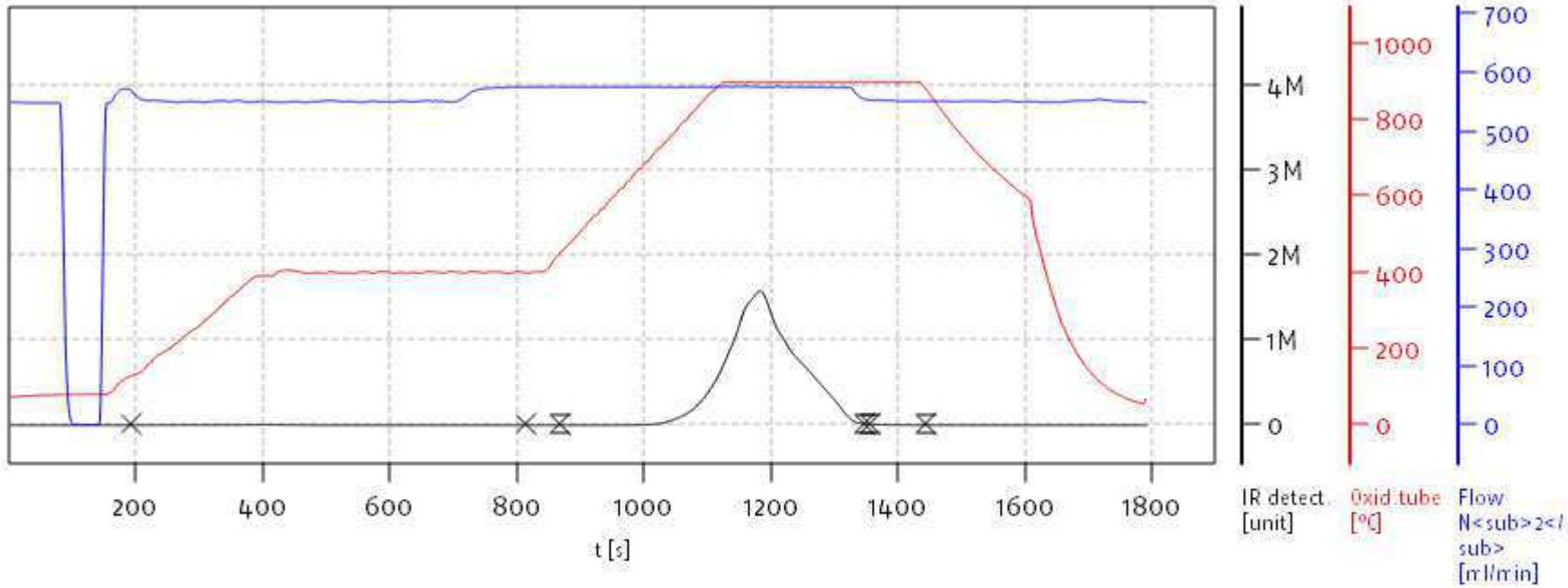
Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/27/2022 11:09 AM	0.020	5.219	5.239	bl	23 354	**6 937 833**	**0**	1.0000	0.9540



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

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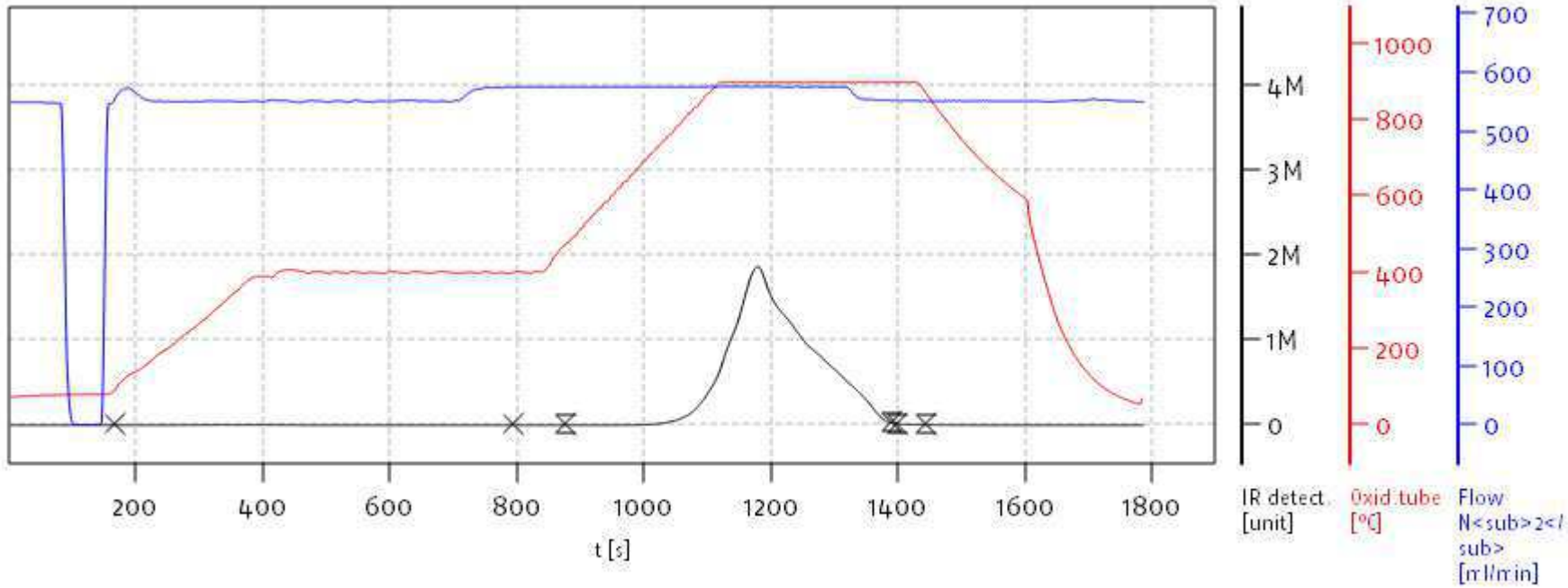
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 11:09 AM	0.019	7.915	7.934	bl,C3o	21 248	9 370 139	0	1.0000	1.0714



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

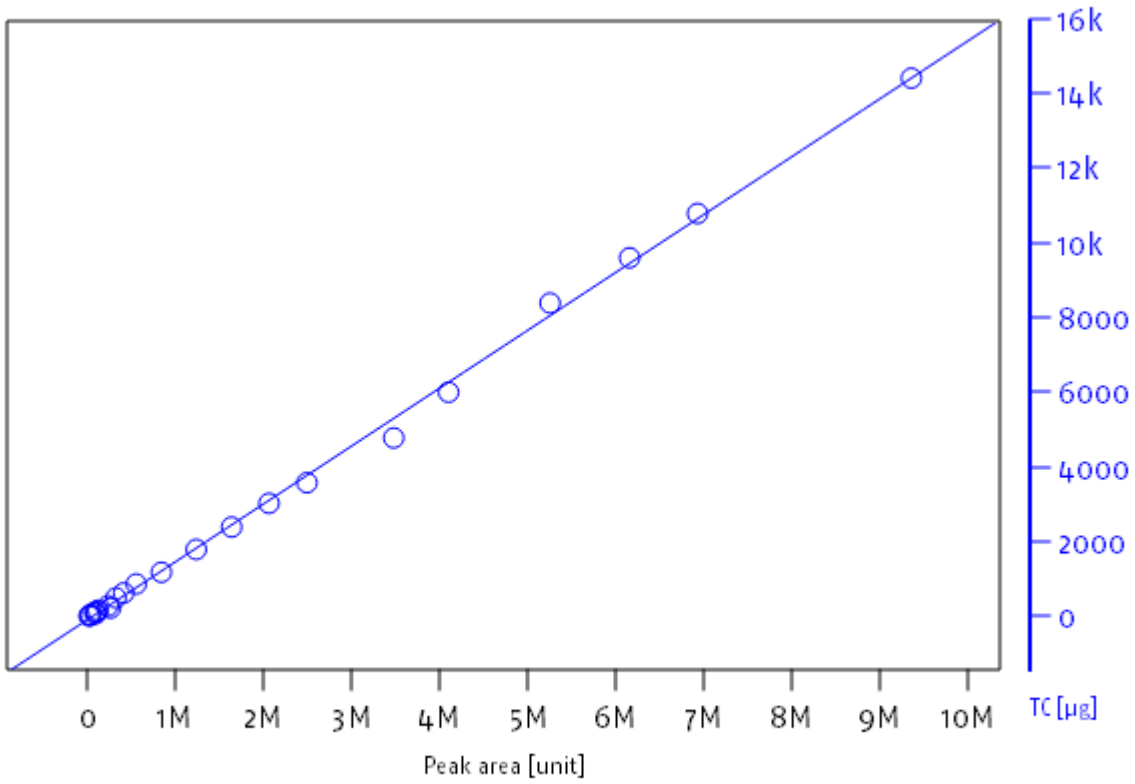
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Calibration parameters TC, Whole range

a	-4.107546e-02
b	+1.548032e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998372
r_old	0.998372
Proc.-SD	166.070255 µg

Calibration graph TC, Whole range



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:19:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Sequence: SKD0371
Date Analyzed: 04/27/22 02:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKD0371-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SKL0217

SDG: 22L0199
Project: AOC4 UR Phase 3
Calibration: FD00070
Date Analyzed: 12/16/22 13:43

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0217-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBA	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBB	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBC	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBD	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBE	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBF	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBG	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0217-CCBH	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SKL0276

SDG: 22L0199
Project: AOC4 UR Phase 3
Calibration: FD00070
Date Analyzed: 12/21/22 12:59

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0276-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKD0371

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKD0371-ICV1	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
	Total Carbon	44.446	44.1	99.2	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	0.40		%	EPA 9060A m
	% Soot	0.0000	0.004		%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKL0217

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0217-ICV1	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SKL0217-CCV1	Total Organic Carbon	44.446	44.9	101	%	EPA 9060A m
SKL0217-CCV2	Total Organic Carbon	44.446	43.8	98.6	%	EPA 9060A m
SKL0217-CCV3	Total Organic Carbon	44.446	44.2	99.5	%	EPA 9060A m
SKL0217-CCV4	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0217-CCV5	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0217-CCV6	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0217-CCV7	Total Organic Carbon	44.446	43.4	97.6	%	EPA 9060A m
SKL0217-CCV8	Total Organic Carbon	44.446	45.1	102	%	EPA 9060A m
SKL0217-CCV9	Total Organic Carbon	44.446	45.3	102	%	EPA 9060A m
SKL0217-CCVA	Total Organic Carbon	44.446	44.7	101	%	EPA 9060A m
SKL0217-CCVB	Total Organic Carbon	44.446	44.2	99.4	%	EPA 9060A m
SKL0217-CCVC	Total Organic Carbon	44.446	44.0	98.9	%	EPA 9060A m
SKL0217-CCVD	Total Organic Carbon	44.446	44.1	99.1	%	EPA 9060A m
SKL0217-CCVE	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
SKL0217-CCVF	Total Organic Carbon	44.446	45.1	102	%	EPA 9060A m
SKL0217-CCVG	Total Organic Carbon	44.446	44.2	99.4	%	EPA 9060A m
SKL0217-CCVH	Total Organic Carbon	44.446	43.9	98.7	%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKL0276

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0276-ICV1	Total Organic Carbon	44.446	44.3	99.7	%	EPA 9060A m
SKL0276-CCV1	Total Organic Carbon	44.446	44.7	101	%	EPA 9060A m
SKL0276-CCV2	Total Organic Carbon	44.446	44.0	99.0	%	EPA 9060A m
SKL0276-CCV3	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0276-CCV4	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0276-CCV5	Total Organic Carbon	44.446	45.3	102	%	EPA 9060A m
SKL0276-CCV6	Total Organic Carbon	44.446	44.1	99.1	%	EPA 9060A m
SKL0276-CCV7	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0276-CCV8	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0276-CCV9	Total Organic Carbon	44.446	46.3	104	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0463-SRM1
Batch: BKL0463
Initial/Final: 0.3479 g / 0.3479 g
Preparation: Plumb 1981
Analyzed: 12/20/2022 3:43
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	3.06	0.02	0.02		102	80 - 120

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0464-SRM1
Batch: BKL0464
Initial/Final: 0.29 g / 0.29 g
Preparation: Plumb 1981
Analyzed: 12/20/2022 20:28
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.96	0.02	0.02		98.9	80 - 120

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0471-SRM1
Batch: BKL0471
Initial/Final: 0.3114 g / 0.3114 g
Preparation: Plumb 1981
Analyzed: 12/22/2022 4:08
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.95	0.02	0.02		98.7	80 - 120

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0501-SRM1
Batch: BKL0501
Initial/Final: 0.314 g / 0.314 g
Preparation: Plumb 1981
Analyzed: 12/22/2022 21:22
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.98	0.02	0.02		99.6	80 - 120

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC762A 22L0199-01	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 07:46			
LDW22-SC762B 22L0199-02	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 08:17			
LDW22-SC762C 22L0199-03	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 09:48			
LDW22-SC762D 22L0199-04	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 10:18			
LDW22-SC762E 22L0199-05	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 10:49			
LDW22-SC762F 22L0199-06	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 11:19			
LDW22-SC762G 22L0199-07	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 11:49			
LDW22-SC762H 22L0199-08	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 12:20			
LDW22-SC762I 22L0199-09	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 12:50			
LDW22-SC762J 22L0199-10	12/07/22 14:14	12/08/22 17:18	12/19/22 07:12	11	14	12/20/22 15:54			
LDW22-IT789F 22L0199-11	12/08/22 08:17	12/08/22 17:18	12/19/22 07:12	10	14	12/20/22 16:24			
LDW22-IT789G 22L0199-12	12/08/22 08:17	12/08/22 17:18	12/19/22 07:12	10	14	12/20/22 16:55			
LDW22-IT789H 22L0199-13	12/08/22 08:17	12/08/22 17:18	12/19/22 07:12	10	14	12/20/22 17:25			
LDW22-IT789I 22L0199-14	12/08/22 08:17	12/08/22 17:18	12/19/22 07:12	10	14	12/20/22 17:55			
LDW22-IT789I-FD 22L0199-15	12/08/22 08:17	12/08/22 17:18	12/19/22 07:12	10	14	12/20/22 18:26			
LDW22-IT789J 22L0199-16	12/08/22 08:17	12/08/22 17:18	12/19/22 09:00	11	14	12/21/22 13:29			
LDW22-IT789K 22L0199-17	12/08/22 08:17	12/08/22 17:18	12/19/22 09:00	11	14	12/21/22 15:00			
LDW22-IT789L 22L0199-18	12/08/22 08:17	12/08/22 17:18	12/19/22 09:00	11	14	12/21/22 15:30			
LDW22-IT790I 22L0199-19	12/08/22 09:20	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 16:01			
LDW22-IT790J 22L0199-20	12/08/22 09:20	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 16:31			
LDW22-IT790K 22L0199-21	12/08/22 09:20	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 17:01			
LDW22-IT790L 22L0199-22	12/08/22 09:20	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 17:32			

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT790M 22L0199-23	12/08/22 09:20	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 18:02			
LDW22-SC802A 22L0199-24	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 19:33			
LDW22-SC802B 22L0199-25	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 20:03			
LDW22-SC802C 22L0199-26	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 20:33			
LDW22-SC802D 22L0199-27	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 21:04			
LDW22-SC802E 22L0199-28	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 21:34			
LDW22-SC802F 22L0199-29	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 22:04			
LDW22-SC802G 22L0199-30	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 22:35			
LDW22-SC802H 22L0199-31	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 23:05			
LDW22-SC802I 22L0199-32	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/21/22 23:35			
LDW22-SC802J 22L0199-33	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/22/22 00:05			
LDW22-SC802K 22L0199-34	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/22/22 01:36			
LDW22-SC802C-FD 22L0199-35	12/08/22 10:39	12/08/22 17:18	12/19/22 09:00	10	14	12/22/22 02:07			
LDW22-SC787A 22L0199-36	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 04:39			
LDW22-SC787B 22L0199-37	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 06:10			
LDW22-SC787C 22L0199-38	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 07:41			
LDW22-SC787D 22L0199-39	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 08:11			
LDW22-SC787E 22L0199-40	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 08:42			
LDW22-SC787F 22L0199-41	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 09:12			
LDW22-SC787G 22L0199-42	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 09:43			
LDW22-SC787H 22L0199-43	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 10:13			
LDW22-SC787I 22L0199-44	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 10:44			

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC787J 22L0199-45	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 13:47			
LDW22-SC787K 22L0199-46	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 14:17			
LDW22-SC787L 22L0199-47	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 14:47			
LDW22-SC761A 22L0199-48	12/08/22 13:47	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 15:17			
LDW22-SC761B 22L0199-49	12/08/22 13:47	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 15:48			
LDW22-SC761C 22L0199-50	12/08/22 13:47	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 16:18			
LDW22-SC761D 22L0199-51	12/08/22 13:47	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 16:49			
LDW22-SC761D-FD 22L0199-52	12/08/22 13:47	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 17:19			
LDW22-SC761E 22L0199-53	12/08/22 13:47	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 17:49			
LDW22-SC761F 22L0199-54	12/08/22 13:47	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 18:20			
LDW22-SC761G 22L0199-55	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/22/22 21:53			
LDW22-SC761H 22L0199-56	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/22/22 23:24			
LDW22-SC761I 22L0199-57	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/22/22 23:55			
LDW22-SC761J 22L0199-58	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 00:25			
LDW22-SC761K 22L0199-59	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 01:56			
LDW22-SC761L 22L0199-60	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 02:27			
LDW22-SC758B 22L0199-61	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 02:57			
LDW22-SC758C 22L0199-62	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 03:27			
LDW22-SC758D 22L0199-63	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 03:58			
LDW22-SC758E 22L0199-64	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 04:28			
LDW22-SC758F 22L0199-65	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 04:59			
LDW22-SC758G 22L0199-66	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 05:30			

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC758H 22L0199-67	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 06:00			
LDW22-SC758I 22L0199-68	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 06:31			
LDW22-SC758J 22L0199-69	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 08:02			
LDW22-SC758K 22L0199-70	12/08/22 14:29	12/08/22 17:18	12/21/22 10:10	12	14	12/23/22 08:32			
Duplicate BKL0464-DUP1	12/08/22 08:17	12/08/22 17:18	12/19/22 09:00	11	14	12/21/22 14:00			
Matrix Spike BKL0464-MS1	12/08/22 08:17	12/08/22 17:18	12/19/22 09:00	11	14	12/21/22 14:30			
Duplicate BKL0471-DUP1	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 05:09			
Matrix Spike BKL0471-MS1	12/08/22 11:27	12/08/22 17:18	12/19/22 11:20	10	14	12/22/22 05:40			
Duplicate BKL0501-DUP1	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/22/22 22:23			
Matrix Spike BKL0501-MS1	12/08/22 13:47	12/08/22 17:18	12/21/22 10:10	12	14	12/22/22 22:54			

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of **SRM 1941b** is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Gaithersburg, MD 20899
Certificate Issue Date: 16 January 2015

Robert L. Watters, Jr., Director
Office of Reference Materials

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS[1]

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 μm (100 % passing), homogenized in a cone blender, radiation sterilized (^{60}Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a –10 °C shelf temperature and a –50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

[1] Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 µm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 µm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 µm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 µm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (µBondapak NH_2, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 µm particle-size polymeric octadecylsilane (C_{18}) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 µm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture,

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-d_4, 4,4'-DDE-d_8, 4,4'-DD-d_8, and 4,4'-DDT-d_8 were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm ; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	4.7[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] LC-FL (total) of total PAH fraction after PFE with DCM.
[f] LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.
[g] 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.
[h] Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[i] The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	0.45[i]

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[g] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

[h] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[i] Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[j] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 0.46[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[e] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.
[f] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.
[h] Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
1-Methylnaphthalene[b,c,d,e]	127	±	14[f]
2-Methylnaphthalene[b,c,d,e]	276	±	53[f]
2,6-Dimethylnaphthalene[b,c,d,e]	75.9	±	4.5[f]
2,3,5-Trimethylnaphthalene[b,c,d,e]	25.5	±	5.1[f]
Biphenyl[b,c,d,e]	74.0	±	8.0[f]
Acenaphthylene[b,c,d,e]	53.3	±	6.4[f]
Acenaphthene[b,c,d,e]	38.4	±	5.2[f]
9-Methylphenanthrene[c]	63.5	±	2.5[g]
4-Methylphenanthrene and 9-Methylphenanthrene[b,d]	80.1	±	4.8[f]
2-Methylanthracene[c,d]	36	±	15[f]
8-Methylfluoranthene[b]	49.5	±	2.7[g]
7-Methylfluoranthene[b]	45.4	±	1.5[g]
1-Methylfluoranthene[b]	42.4	±	2.1[g]
3-Methylfluoranthene[b]	28.8	±	1.3[g]
2-Methylpyrene[b]	78.7	±	4.0[g]
4-Methylpyrene[b]	66.4	±	2.6[g]
1-Methylpyrene[b]	52.5	±	2.3[g]
Acephenanthrene[d]	30.5	±	1.9[g]
Benzo[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]fluoranthene[d]	9.63	±	0.34[g]
Pentaphene[d]	25.3	±	1.0[g]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[e] 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

[f] Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[g] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions[a,b,c] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	0.29

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b,c] (µg/kg)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl)[d,e]	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl)[d,f,g]	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl)[e,f,g]	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl)[e,f,g]	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl)[e,f,g]	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl)[h]	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl)[d,e,f,g]	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl)[d,f,g]	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl)[e,f,g]	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl)[d,e,f,g]	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl)[e,f,g]	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl)[d,e,f,g]	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl)[d,e,f,g]	0.292	±	0.075

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[g] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[h] GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a,b] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	0.42

[a] Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).
[e] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[f] 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction[a,b] (µg/kg)		
C2-decalins	18	±	5
C4-decalins	41	±	4
C2-naphthalenes	187	±	53
C3-naphthalenes	158	±	42
C1-benzothiophenes	25	±	14
C2-benzothiophenes	20	±	11
C3-benzothiophenes	22	±	13
C4-benzothiophenes	18	±	5
C1-fluorenes	57	±	18
C2-fluorenes	122	±	43
C3-fluorenes	128	±	31
C1-phenanthrenes/anthracenes	313	±	99
C2-phenanthrenes/anthracenes	247	±	62
C3-phenanthrenes/anthracenes	165	±	46
C4-phenanthrenes/anthracenes	87	±	36
C1-dibenzothiophenes	54	±	13
C2-dibenzothiophenes	91	±	18
C3-dibenzothiophenes	84	±	15
C4-dibenzothiophenes	57	±	13
C1-fluoranthenes/pyrenes	252	±	48
C2-fluoranthenes/pyrenes	205	±	38
C3-fluoranthenes/pyrenes	102	±	22
C4-fluoranthenes/pyrenes	121	±	59
C1-benzanthraces/chrysenes/triphenylenes	208	±	43
C2-benzanthraces/chrysenes/triphenylenes	120	±	24
C3-benzanthraces/chrysenes/triphenylenes	73	±	31
C4-benzanthraces/chrysenes/triphenylenes	41	±	11

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction[a,b] (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 %[a,b]

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

Elements	Mass Fractions[a] (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at http://www.nist.gov/srm.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigacionies Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axys Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA

NIST

Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. Substance and Source Identification

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: http://www.nist.gov/srm

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. Hazards Identification

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements
Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. Composition and Information on Hazardous Ingredients

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Marine Sediment	Not available	Not available	100

4. First Aid Measures

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. Fire Fighting Measures

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:
Suitable: Use extinguishing media appropriate for surrounding fire.
Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. Handling and Storage

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. Exposure Controls and Personal Protection

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m^3 (TWA, total particulates not otherwise regulated, 8 h)
NIOSH (REL): 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm

Thermal Stability Properties:

Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable _____ Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: _____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: __X__ Inhalation __X__ Skin _____ Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen _____ Yes __X__ No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH:	No.
CHRONIC HEALTH:	No.
FIRE:	No.
REACTIVE:	No.
PRESSURE:	No.

State Regulations:
California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:
WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Mar 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the

Bill to: 68455	Ship to: 68456
DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205	DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205

Ship via	UPS Ground	Description		Ship from	
Salesmen	MCMIDM2	Instructions		Blanket	
Contact	DAVE MITCHELL	Pro#		Truck#	

Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
1	EACH	1	EACH	0	EACH	1941B	Organics in Marine Sediment
						Total qty:	1 / EACH
							NOT FOR HUMAN CONSUMPTION, LABORATORY USE ONLY.

9/21/16
04:04 PM

1700101

Picked by	
Packed by	
# of pieces	
Weight	

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

This is an electronically generated document
mailto:biotech@mpbio.com
http://www.mpbio.com
Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site
Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)

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Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

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Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-01 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	53.61	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	53.61	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-02 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	56.84	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.84	1	0.04	0.04	

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Analytical Chemists and Consultants

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SM 2540 G-97

LDW22-SC762C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-03 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	55.81	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.81	1	0.04	0.04	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-04 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	57.79	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	57.79	1	0.04	0.04	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-05 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	72.62	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	72.62	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-06 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	75.38	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	75.38	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-07 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	65.83	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	65.83	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-08 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	62.52	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	62.52	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC762I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-09 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	65.16	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	65.16	1	0.04	0.04	

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LDW22-SC762J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-10 C	SDG:	22L0199
Sampled:	12/07/22 14:14	Prepared:	12/10/22 12:19	File ID:	
% Solids:	64.17	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.17	1	0.04	0.04	

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LDW22-IT789F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-11 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	88.08	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	88.08	1	0.04	0.04	

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LDW22-IT789G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-12 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	89.32	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	89.32	1	0.04	0.04	

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LDW22-IT789H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-13 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	84.85	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	84.85	1	0.04	0.04	

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LDW22-IT789I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-14 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	85.38	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	85.38	1	0.04	0.04	

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LDW22-IT789I-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-15 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	83.32	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	83.32	1	0.04	0.04	

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LDW22-IT789J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-16 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	85.35	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	85.35	1	0.04	0.04	

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LDW22-IT789K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-17 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	85.88	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	85.88	1	0.04	0.04	

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LDW22-IT789L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-18 C	SDG:	22L0199
Sampled:	12/08/22 08:17	Prepared:	12/10/22 12:19	File ID:	
% Solids:	79.12	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	79.12	1	0.04	0.04	

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LDW22-IT790I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-19 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/10/22 12:19	File ID:	
% Solids:	84.58	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	84.58	1	0.04	0.04	

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LDW22-IT790J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-20 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/10/22 12:19	File ID:	
% Solids:	81.85	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:27
Batch:	BKL0256	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	81.85	1	0.04	0.04	

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LDW22-IT790K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-21 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/10/22 12:22	File ID:	
% Solids:	87.91	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	87.91	1	0.04	0.04	

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LDW22-IT790L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-22 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/10/22 12:22	File ID:	
% Solids:	75.70	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	75.70	1	0.04	0.04	

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LDW22-IT790M

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-23 C	SDG:	22L0199
Sampled:	12/08/22 09:20	Prepared:	12/10/22 12:22	File ID:	
% Solids:	69.17	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	69.17	1	0.04	0.04	

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LDW22-SC802A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-24 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	50.61	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	50.61	1	0.04	0.04	

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LDW22-SC802B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-25 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	49.80	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	49.80	1	0.04	0.04	

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LDW22-SC802C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-26 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	54.33	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	54.33	1	0.04	0.04	

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LDW22-SC802D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-27 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	53.11	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	53.11	1	0.04	0.04	

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LDW22-SC802E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-28 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	53.62	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	53.62	1	0.04	0.04	

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LDW22-SC802F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-29 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	58.19	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.19	1	0.04	0.04	

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LDW22-SC802G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-30 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	59.10	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	59.10	1	0.04	0.04	

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LDW22-SC802H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-31 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	69.99	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	69.99	1	0.04	0.04	

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LDW22-SC802I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-32 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	71.28	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	71.28	1	0.04	0.04	

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LDW22-SC802J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-33 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	78.43	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	78.43	1	0.04	0.04	

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LDW22-SC802K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-34 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	88.51	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	88.51	1	0.04	0.04	

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LDW22-SC802C-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-35 C	SDG:	22L0199
Sampled:	12/08/22 10:39	Prepared:	12/10/22 12:22	File ID:	
% Solids:	52.93	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	52.93	1	0.04	0.04	

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LDW22-SC787A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-36 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 12:22	File ID:	
% Solids:	56.99	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.99	1	0.04	0.04	

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LDW22-SC787B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-37 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 12:22	File ID:	
% Solids:	52.03	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	52.03	1	0.04	0.04	

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LDW22-SC787C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-38 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 12:22	File ID:	
% Solids:	55.75	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.75	1	0.04	0.04	

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LDW22-SC787D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-39 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 12:22	File ID:	
% Solids:	58.30	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.30	1	0.04	0.04	

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LDW22-SC787E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-40 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 12:22	File ID:	
% Solids:	56.13	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 12:23
Batch:	BKL0257	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.13	1	0.04	0.04	

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LDW22-SC787F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-41 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 14:28	File ID:	
% Solids:	53.73	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	53.73	1	0.04	0.04	

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LDW22-SC787G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-42 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 14:28	File ID:	
% Solids:	55.12	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.12	1	0.04	0.04	

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LDW22-SC787H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-43 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 14:28	File ID:	
% Solids:	60.97	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	60.97	1	0.04	0.04	

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LDW22-SC787I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-44 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 14:28	File ID:	
% Solids:	63.87	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	63.87	1	0.04	0.04	

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LDW22-SC787J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-45 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 14:28	File ID:	
% Solids:	60.26	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	60.26	1	0.04	0.04	

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LDW22-SC787K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-46 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 14:28	File ID:	
% Solids:	78.03	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	78.03	1	0.04	0.04	

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LDW22-SC787L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-47 C	SDG:	22L0199
Sampled:	12/08/22 11:27	Prepared:	12/10/22 14:28	File ID:	
% Solids:	73.45	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	73.45	1	0.04	0.04	

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LDW22-SC761A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-48 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	54.28	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	54.28	1	0.04	0.04	

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LDW22-SC761B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-49 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	56.10	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.10	1	0.04	0.04	

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LDW22-SC761C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-50 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	56.43	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.43	1	0.04	0.04	

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LDW22-SC761D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-51 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	60.91	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	60.91	1	0.04	0.04	

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LDW22-SC761D-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-52 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	59.32	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	59.32	1	0.04	0.04	

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LDW22-SC761E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-53 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	74.98	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	74.98	1	0.04	0.04	

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LDW22-SC761F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-54 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	65.14	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	65.14	1	0.04	0.04	

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LDW22-SC761G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-55 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	69.49	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	69.49	1	0.04	0.04	

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LDW22-SC761H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-56 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	64.38	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.38	1	0.04	0.04	

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LDW22-SC761I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-57 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	65.01	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	65.01	1	0.04	0.04	

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LDW22-SC761J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-58 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	68.24	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	68.24	1	0.04	0.04	

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LDW22-SC761K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-59 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	72.93	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	72.93	1	0.04	0.04	

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LDW22-SC761L

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-60 C	SDG:	22L0199
Sampled:	12/08/22 13:47	Prepared:	12/10/22 14:28	File ID:	
% Solids:	74.72	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:33
Batch:	BKL0259	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	74.72	1	0.04	0.04	

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LDW22-SC758B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-61 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	56.31	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.31	1	0.04	0.04	

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LDW22-SC758C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-62 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	56.20	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.20	1	0.04	0.04	

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LDW22-SC758D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-63 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	56.62	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.62	1	0.04	0.04	

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LDW22-SC758E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-64 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	62.10	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	62.10	1	0.04	0.04	

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LDW22-SC758F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-65 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	57.19	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	57.19	1	0.04	0.04	

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LDW22-SC758G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-66 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	62.93	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	62.93	1	0.04	0.04	

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LDW22-SC758H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-67 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	61.11	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	61.11	1	0.04	0.04	

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LDW22-SC758I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-68 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	62.47	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	62.47	1	0.04	0.04	

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LDW22-SC758J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-69 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	62.89	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	62.89	1	0.04	0.04	

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LDW22-SC758K

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0199-70 C	SDG:	22L0199
Sampled:	12/08/22 14:29	Prepared:	12/10/22 14:31	File ID:	
% Solids:	65.23	Preparation:	No Prep Wet Chem	Analyzed:	12/10/22 14:32
Batch:	BKL0260	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	65.23	1	0.04	0.04	

PREPARATION BATCH SUMMARY

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Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0256 Batch Matrix: Solid Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC762A	22L0199-01		12/10/22 12:19	
LDW22-SC762B	22L0199-02		12/10/22 12:19	
LDW22-SC762C	22L0199-03		12/10/22 12:19	
LDW22-SC762D	22L0199-04		12/10/22 12:19	
LDW22-SC762E	22L0199-05		12/10/22 12:19	
LDW22-SC762F	22L0199-06		12/10/22 12:19	
LDW22-SC762G	22L0199-07		12/10/22 12:19	
LDW22-SC762H	22L0199-08		12/10/22 12:19	
LDW22-SC762I	22L0199-09		12/10/22 12:19	
LDW22-SC762J	22L0199-10		12/10/22 12:19	
LDW22-IT789F	22L0199-11		12/10/22 12:19	
LDW22-IT789G	22L0199-12		12/10/22 12:19	
LDW22-IT789H	22L0199-13		12/10/22 12:19	
LDW22-IT789I	22L0199-14		12/10/22 12:19	
LDW22-IT789I-FD	22L0199-15		12/10/22 12:19	
LDW22-IT789J	22L0199-16		12/10/22 12:19	
LDW22-IT789K	22L0199-17		12/10/22 12:19	
LDW22-IT789L	22L0199-18		12/10/22 12:19	
LDW22-IT790I	22L0199-19		12/10/22 12:19	
LDW22-IT790J	22L0199-20		12/10/22 12:19	
Blank	BKL0256-BLK1		12/10/22 12:19	
LDW22-SC762A	BKL0256-DUP1		12/10/22 12:19	
LDW22-SC762A	BKL0256-DUP2		12/10/22 12:19	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0256
Date:	12/10/2022 12:27
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/10/2022 14:25	
date/time out:	12/12/2022 12:05	
elapsed hrs =	45.7	> 24 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	109
Dry Cycle 1	90
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		12/10/22 12:30	12/10/22 13:45	12/12/22 12:32							
Cal Wt (g):	10.0000	10.0000	10.0000	10.0000							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0256-BLK1	1	0.8271	0.0000	0.8270			-0.0001	0.01%								
22L0199-01	2	0.8405	6.6107	3.9340			3.0935	53.61%								
BKL0256-DUP1	3	0.8285	7.4871	4.4106			3.5821	53.80%	RPD=0.3							
BKL0256-DUP2	4	0.7971	6.9101	4.0876			3.2905	53.83%	RSD=0.2							
22L0199-02	5	0.8336	7.8386	4.8153			3.9817	56.84%								
22L0199-03	6	0.8311	8.0211	4.8440			4.0129	55.81%								
22L0199-04	7	0.8079	7.2416	4.5261			3.7182	57.79%								
22L0199-05	8	0.8044	9.9474	7.4436			6.6392	72.62%								
22L0199-06	9	0.8079	7.7012	6.0038			5.1959	75.38%								
22L0199-07	10	0.8081	7.6736	5.3278			4.5197	65.83%								
22L0199-08	11	0.8208	8.6030	5.6861			4.8653	62.52%								
22L0199-09	12	0.8024	8.8591	6.0523			5.2499	65.16%								
22L0199-10	13	0.8053	9.0625	6.1043			5.2990	64.17%								
22L0199-11	14	0.8115	7.1199	6.3680			5.5565	88.08%								
22L0199-12	15	0.8099	6.1540	5.5831			4.7732	89.32%								
22L0199-13	16	0.8140	6.6512	5.7666			4.9526	84.85%								
22L0199-14	17	0.7900	6.7164	5.8499			5.0599	85.38%								
22L0199-15	18	0.8084	7.6774	6.5318			5.7234	83.32%								
22L0199-16	19	0.8052	6.5207	5.6832			4.8780	85.35%								
22L0199-17	20	0.8177	6.4258	5.6342			4.8165	85.88%								
22L0199-18	21	0.8052	6.9844	5.6940			4.8888	79.12%								
22L0199-19	22	0.7986	7.0442	6.0811			5.2825	84.58%								
22L0199-20	23	0.8110	6.1928	5.2161			4.4051	81.85%								

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0257 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT790K	22L0199-21		12/10/22 12:22	
LDW22-IT790L	22L0199-22		12/10/22 12:22	
LDW22-IT790M	22L0199-23		12/10/22 12:22	
LDW22-SC802A	22L0199-24		12/10/22 12:22	
LDW22-SC802B	22L0199-25		12/10/22 12:22	
LDW22-SC802C	22L0199-26		12/10/22 12:22	
LDW22-SC802D	22L0199-27		12/10/22 12:22	
LDW22-SC802E	22L0199-28		12/10/22 12:22	
LDW22-SC802F	22L0199-29		12/10/22 12:22	
LDW22-SC802G	22L0199-30		12/10/22 12:22	
LDW22-SC802H	22L0199-31		12/10/22 12:22	
LDW22-SC802I	22L0199-32		12/10/22 12:22	
LDW22-SC802J	22L0199-33		12/10/22 12:22	
LDW22-SC802K	22L0199-34		12/10/22 12:22	
LDW22-SC802C-FD	22L0199-35		12/10/22 12:22	
LDW22-SC787A	22L0199-36		12/10/22 12:22	
LDW22-SC787B	22L0199-37		12/10/22 12:22	
LDW22-SC787C	22L0199-38		12/10/22 12:22	
LDW22-SC787D	22L0199-39		12/10/22 12:22	
LDW22-SC787E	22L0199-40		12/10/22 12:22	
Blank	BKL0257-BLK1		12/10/22 12:22	
LDW22-IT790K	BKL0257-DUP1		12/10/22 12:22	
LDW22-IT790K	BKL0257-DUP2		12/10/22 12:22	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0257
Date:	12/10/2022 12:23
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven: 12/10/2022 14:25

date/time out: 12/12/2022 12:25

elapsed hrs = 46.0 | > 24 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	109
Dry Cycle 1	90
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places												
	Cal Weight ID:	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02		
	Date & Time:	12/10/22 12:37	12/10/22 14:05	12/12/22 12:54								
Cal Wt (g):	10.0000	10.0000	10.0000	10.0000								
		Cal OK!	Cal OK!	Cal OK!								

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0257-BLK1	24	0.8033	0.0000	0.8032			-0.0001	0.01%								
22L0199-21	25	0.7908	6.6747	5.9633			5.1725	87.91%								
BKL0257-DUP1	26	0.7858	6.6658	5.9606			5.1748	88.01%	RPD=0.1							
BKL0257-DUP2	27	0.8184	5.4069	4.8605			4.0421	88.09%	RSD=0.1							
22L0199-22	28	0.8029	6.6976	5.2649			4.4620	75.70%								
22L0199-23	29	0.7939	7.2058	5.2287			4.4348	69.17%								
22L0199-24	30	0.7987	6.3503	3.6084			2.8097	50.61%								
22L0199-25	31	0.8234	5.2425	3.0239			2.2005	49.80%								
22L0199-26	32	0.7886	7.9572	4.6832			3.8946	54.33%								
22L0199-27	33	0.7896	7.4085	4.3049			3.5153	53.11%								
22L0199-28	34	0.8035	8.1260	4.7301			3.9266	53.62%								
22L0199-29	35	0.8028	7.7345	4.8364			4.0336	58.19%								
22L0199-30	36	0.7862	6.9862	4.4506			3.6644	59.10%								
22L0199-31	37	0.8033	8.1980	5.9792			5.1759	69.99%								
22L0199-32	38	0.7981	6.7893	5.0685			4.2704	71.28%								
22L0199-33	39	0.8113	8.4215	6.7802			5.9689	78.43%								
22L0199-34	40	0.8030	6.9467	6.2410			5.4380	88.51%								
22L0199-35	41	0.8007	7.1896	4.1822			3.3815	52.93%								
22L0199-36	42	0.8313	7.5758	4.6753			3.8440	56.99%								
22L0199-37	43	0.8209	6.4813	3.7661			2.9452	52.03%								
22L0199-38	44	0.8129	7.4466	4.5111			3.6982	55.75%								
22L0199-39	45	0.8400	6.4928	4.1353			3.2953	58.30%								
22L0199-40	46	0.8254	8.1298	4.9253			4.0999	56.13%								

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0259 Batch Matrix: Solid Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC787F	22L0199-41		12/10/22 14:28	
LDW22-SC787G	22L0199-42		12/10/22 14:28	
LDW22-SC787H	22L0199-43		12/10/22 14:28	
LDW22-SC787I	22L0199-44		12/10/22 14:28	
LDW22-SC787J	22L0199-45		12/10/22 14:28	
LDW22-SC787K	22L0199-46		12/10/22 14:28	
LDW22-SC787L	22L0199-47		12/10/22 14:28	
LDW22-SC761A	22L0199-48		12/10/22 14:28	
LDW22-SC761B	22L0199-49		12/10/22 14:28	
LDW22-SC761C	22L0199-50		12/10/22 14:28	
LDW22-SC761D	22L0199-51		12/10/22 14:28	
LDW22-SC761D-FD	22L0199-52		12/10/22 14:28	
LDW22-SC761E	22L0199-53		12/10/22 14:28	
LDW22-SC761F	22L0199-54		12/10/22 14:28	
LDW22-SC761G	22L0199-55		12/10/22 14:28	
LDW22-SC761H	22L0199-56		12/10/22 14:28	
LDW22-SC761I	22L0199-57		12/10/22 14:28	
LDW22-SC761J	22L0199-58		12/10/22 14:28	
LDW22-SC761K	22L0199-59		12/10/22 14:28	
LDW22-SC761L	22L0199-60		12/10/22 14:28	
Blank	BKL0259-BLK1		12/10/22 14:28	
LDW22-SC787F	BKL0259-DUP1		12/10/22 14:28	
LDW22-SC787F	BKL0259-DUP2		12/10/22 14:28	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0259
Date:	12/10/2022 14:33
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/10/2022 15:30	
date/time out:	12/12/2022 12:25	
elapsed hrs =	44.9	> 24 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	109
Dry Cycle 1	90
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		12/10/22 14:35	12/10/22 14:50	12/12/22 14:50							
Cal Wt (g):	10.0000	10.0000	10.0000	10.0000							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0259-BLK1	47	0.8153	0.0000	0.8151			-0.0002	0.02%								
22L0199-41	48	0.8294	6.5724	3.9151			3.0857	53.73%								
BKL0259-DUP1	49	0.8009	6.3762	3.7888			2.9879	53.59%	RPD=0.3							
BKL0259-DUP2	50	0.7966	5.8401	3.5118			2.7152	53.84%	RSD=0.2							
22L0199-42	51	0.8045	7.7903	4.6554			3.8509	55.12%								
22L0199-43	52	0.8182	7.5803	4.9409			4.1227	60.97%								
22L0199-44	53	0.8098	6.3175	4.3276			3.5178	63.87%								
22L0199-45	54	0.8171	5.9002	3.8801			3.0630	60.26%								
22L0199-46	55	0.8003	7.6277	6.1275			5.3272	78.03%								
22L0199-47	56	0.8000	8.4416	6.4128			5.6128	73.45%								
22L0199-48	57	0.8291	5.1942	3.1983			2.3692	54.28%								
22L0199-49	58	0.8260	7.3152	4.4665			3.6405	56.10%								
22L0199-50	59	0.8120	6.5202	4.0334			3.2214	56.43%								
22L0199-51	60	0.7900	7.3895	4.8096			4.0196	60.91%								
22L0199-52	61	0.8290	8.2739	5.2453			4.4163	59.32%								
22L0199-53	62	0.8167	7.0261	5.4727			4.6560	74.98%								
22L0199-54	63	0.8145	6.7852	4.7041			3.8896	65.14%								
22L0199-55	64	0.8199	8.2474	5.9813			5.1614	69.49%								
22L0199-56	65	0.7985	8.5590	5.7948			4.9963	64.38%								
22L0199-57	66	0.8055	7.9515	5.4513			4.6458	65.01%								
22L0199-58	67	0.8311	8.8135	6.2781			5.4470	68.24%								
22L0199-59	68	0.8298	8.9113	6.7238			5.8940	72.93%								
22L0199-60	69	0.8021	6.9186	5.3724			4.5703	74.72%								

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0260 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC758B	22L0199-61		12/10/22 14:31	
LDW22-SC758C	22L0199-62		12/10/22 14:31	
LDW22-SC758D	22L0199-63		12/10/22 14:31	
LDW22-SC758E	22L0199-64		12/10/22 14:31	
LDW22-SC758F	22L0199-65		12/10/22 14:31	
LDW22-SC758G	22L0199-66		12/10/22 14:31	
LDW22-SC758H	22L0199-67		12/10/22 14:31	
LDW22-SC758I	22L0199-68		12/10/22 14:31	
LDW22-SC758J	22L0199-69		12/10/22 14:31	
LDW22-SC758K	22L0199-70		12/10/22 14:31	
Blank	BKL0260-BLK1		12/10/22 14:31	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0260
Date:	12/10/2022 14:32
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/10/2022 15:30	
date/time out:	12/12/2022 12:25	
elapsed hrs =	44.9	> 24 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	109
Dry Cycle 1	90
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		12/10/22 14:40	12/10/22 15:10	12/12/22 15:00							
Cal Wt (g):	10.0000	10.0000	10.0000	10.0000							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0260-BLK1	70	0.8347	0.0000	0.8346			-0.0001	0.01%								
22L0198-01	71	0.8277	8.1228	3.5150			2.6873	36.84%								
BKL0260-DUP1	72	0.8315	6.6590	2.9790			2.1475	36.85%	RPD=0							
BKL0260-DUP2	73	0.8024	6.4791	2.9025			2.1001	37.00%	RSD=0.2							
22L0198-02	74	0.8340	7.3333	3.2207			2.3867	36.72%								
22L0198-03	75	0.8280	6.8654	3.0513			2.2233	36.83%								
22L0198-04	76	0.8393	8.1523	3.3226			2.4833	33.96%								
22L0198-05	77	0.8030	8.2129	3.5385			2.7355	36.92%								
22L0198-06	78	0.7971	7.7679	3.3036			2.5065	35.96%								
22L0198-07	79	0.8160	7.5582	3.2114			2.3954	35.53%								
22L0198-08	80	0.8228	7.6293	3.3329			2.5101	36.88%								
22L0198-09	81	0.8076	7.0275	2.9273			2.1197	34.08%								
22L0198-10	82	0.8145	7.4043	3.3518			2.5373	38.50%								
22L0199-61	83	0.8325	7.4929	4.5831			3.7506	56.31%								
22L0199-62	84	0.7973	7.0646	4.3193			3.5220	56.20%								
22L0199-63	85	0.8215	7.4970	4.6014			3.7799	56.62%								
22L0199-64	86	0.8319	6.7628	4.5151			3.6832	62.10%								
22L0199-65	87	0.8311	7.9391	4.8960			4.0649	57.19%								
22L0199-66	88	0.8262	7.4980	5.0249			4.1987	62.93%								
22L0199-67	89	0.8227	6.8103	4.4820			3.6593	61.11%								
22L0199-68	90	0.8081	5.9771	4.0371			3.2290	62.47%								
22L0199-69	91	0.8065	8.5558	5.6802			4.8737	62.89%								
22L0199-70	92	0.7900	9.5373	6.4959			5.7059	65.23%								

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0256
Laboratory ID: BKL0256-BLK1
Prepared: 12/10/22 12:19
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/10/22 12:27
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0257
Laboratory ID: BKL0257-BLK1
Prepared: 12/10/22 12:22
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/10/22 12:23
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0259
Laboratory ID: BKL0259-BLK1
Prepared: 12/10/22 14:28
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/10/22 14:33
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0260
Laboratory ID: BKL0260-BLK1
Prepared: 12/10/22 14:31
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/10/22 14:32
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0256-DUP1
Batch: BKL0256
Lab Source ID: 22L0199-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC762A
% Solids: 53.61

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	53.61	53.80	0.344	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0256-DUP2
Batch: BKL0256
Lab Source ID: 22L0199-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC762A
% Solids: 53.61

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	53.61	53.83	0.403	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0257-DUP1
Batch: BKL0257
Lab Source ID: 22L0199-21
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-IT790K
% Solids: 87.91

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	87.91	88.01	0.111	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0257-DUP2
Batch: BKL0257
Lab Source ID: 22L0199-21
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-IT790K
% Solids: 87.91

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	87.91	88.09	0.207	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0259-DUP1
Batch: BKL0259
Lab Source ID: 22L0199-41
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC787F
% Solids: 53.73

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	53.73	53.59	0.257	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0259-DUP2
Batch: BKL0259
Lab Source ID: 22L0199-41
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC787F
% Solids: 53.73

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	53.73	53.84	0.197	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC762A 22L0199-01	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762B 22L0199-02	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762C 22L0199-03	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762D 22L0199-04	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762E 22L0199-05	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762F 22L0199-06	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762G 22L0199-07	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762H 22L0199-08	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762I 22L0199-09	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-SC762J 22L0199-10	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
LDW22-IT789F 22L0199-11	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT789G 22L0199-12	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT789H 22L0199-13	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT789I 22L0199-14	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT789I-FD 22L0199-15	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT789J 22L0199-16	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT789K 22L0199-17	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT789L 22L0199-18	12/08/22 08:17	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT790I 22L0199-19	12/08/22 09:20	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT790J 22L0199-20	12/08/22 09:20	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	2	28	
LDW22-IT790K 22L0199-21	12/08/22 09:20	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-IT790L 22L0199-22	12/08/22 09:20	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT790M 22L0199-23	12/08/22 09:20	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802A 22L0199-24	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802B 22L0199-25	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802C 22L0199-26	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802D 22L0199-27	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802E 22L0199-28	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802F 22L0199-29	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802G 22L0199-30	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802H 22L0199-31	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802I 22L0199-32	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802J 22L0199-33	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802K 22L0199-34	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC802C-FD 22L0199-35	12/08/22 10:39	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC787A 22L0199-36	12/08/22 11:27	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC787B 22L0199-37	12/08/22 11:27	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC787C 22L0199-38	12/08/22 11:27	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC787D 22L0199-39	12/08/22 11:27	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC787E 22L0199-40	12/08/22 11:27	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
LDW22-SC787F 22L0199-41	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC787G 22L0199-42	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC787H 22L0199-43	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC787I 22L0199-44	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC787J 22L0199-45	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC787K 22L0199-46	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC787L 22L0199-47	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761A 22L0199-48	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761B 22L0199-49	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761C 22L0199-50	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761D 22L0199-51	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761D-FD 22L0199-52	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761E 22L0199-53	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761F 22L0199-54	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761G 22L0199-55	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761H 22L0199-56	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761I 22L0199-57	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761J 22L0199-58	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761K 22L0199-59	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC761L 22L0199-60	12/08/22 13:47	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
LDW22-SC758B 22L0199-61	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758C 22L0199-62	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758D 22L0199-63	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758E 22L0199-64	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758F 22L0199-65	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758G 22L0199-66	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0199

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC758H 22L0199-67	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758I 22L0199-68	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758J 22L0199-69	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
LDW22-SC758K 22L0199-70	12/08/22 14:29	12/08/22 17:18	12/10/22 14:31	2	28	12/10/22 14:32	2	28	
Duplicate BKL0256-DUP1	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
Duplicate BKL0256-DUP2	12/07/22 14:14	12/08/22 17:18	12/10/22 12:19	2	28	12/10/22 12:27	3	28	
Duplicate BKL0257-DUP1	12/08/22 09:20	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
Duplicate BKL0257-DUP2	12/08/22 09:20	12/08/22 17:18	12/10/22 12:22	2	28	12/10/22 12:23	2	28	
Duplicate BKL0259-DUP1	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	
Duplicate BKL0259-DUP2	12/08/22 11:27	12/08/22 17:18	12/10/22 14:28	2	28	12/10/22 14:33	2	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0199
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0340
Date:	12/13/2022 15:52
Analyst:	CR
Drying Oven:	15
Analytical Balance:	B139298002

Batch drying time

Record times as mm/dd/yy hh:mm

Date/time in oven:	12/14/2022 13:58
Date/time out:	12/15/2022 10:26
Elapsed hrs:	20.5

Oven Temp, C 112

105

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	112
End Temp:	105

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-01	0.8400	11.1800	6.5200	5.68	**54.93%**	Yes
22L0199-02	0.8200	12.6400	7.5300	6.71	**56.77%**	Yes
22L0199-03	0.8100	11.4200	6.7200	5.91	**55.70%**	Yes
22L0199-04	0.8000	11.8900	7.1300	6.33	**57.08%**	No
22L0199-05	0.8200	12.0900	8.8500	8.03	**71.25%**	Yes
22L0199-06	0.8100	12.1400	9.3500	8.54	**75.38%**	Yes
22L0199-07	0.8100	11.4800	8.1700	7.36	**68.98%**	Yes
22L0199-08	0.8000	12.8600	8.6000	7.80	**64.68%**	No
22L0199-09	0.7700	12.7100	8.5700	7.80	**65.33%**	No
22L0199-10	0.8300	12.9000	8.3800	7.55	**62.55%**	Yes
22L0199-11	0.8100	11.5700	10.3800	9.57	**88.94%**	No
22L0199-12	0.8200	12.4300	11.3300	10.51	**90.53%**	No
22L0199-13	0.8100	11.5100	10.0400	9.23	**86.26%**	No
22L0199-14	0.8200	11.5500	10.1800	9.36	**87.23%**	No
22L0199-15	0.8300	11.3300	9.9200	9.09	**86.57%**	No
22L0199-16	0.8500	12.6000	10.8900	10.04	**85.45%**	No
22L0199-17	0.8500	12.3000	10.8600	10.01	**87.42%**	No
22L0199-18	0.8300	11.9900	9.8500	9.02	**80.82%**	No
22L0199-19	0.8100	11.3400	9.9200	9.11	**86.51%**	No
22L0199-20	0.8500	11.1300	9.4000	8.55	**83.17%**	No

HT: 12/26

TOTAL SOLIDS BENCHSHEET		Batch:	BKL0340
Method: PSEP 1986		Date:	12/13/2022 15:52
(dry at 103-105 C)		Analyst:	CR
Instrumentation		Drying Oven:	015
		Analytical Balance:	B139298002

Batch drying time			Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Record times as mm/dd/yy hh:mm						
Date/time in oven:	12/14/22	13:58	112	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	112
Date/time out:	12/15/22	10:26	105	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	105
Elapsed hrs:	0.0					

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-01 B	0.84	11.18	6.52			No yes
22L0199-02	0.82	12.64	7.53			No yes
22L0199-03	0.81	11.42	6.72			No yes
22L0199-04	0.80	11.89	7.13			No
22L0199-05	0.82	12.09	8.85			No yes
22L0199-06	0.81	12.14	9.35			No yes
22L0199-07	0.81	11.48	8.17			No yes
22L0199-08	0.80	12.86	8.60			No
22L0199-09	0.77	12.71	8.57			No
22L0199-10	0.83	12.90	8.39			No yes
22L0199-11	0.81	11.57	10.38			No
22L0199-12	0.82	12.43	11.33			No
22L0199-13	0.81	11.51	10.04			No
22L0199-14	0.82	11.55	10.18			No
22L0199-15	0.83	11.33	9.92			No
22L0199-16	0.85	12.60	10.89			No
22L0199-17	0.85	12.30	10.86			No
22L0199-18	0.83	11.99	9.85			No
22L0199-19	0.81	11.34	9.92			No
22L0199-20 B	0.85	11.13	9.40			No

T/S + Scruns
No copies

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0342
Date:	12/13/2022 15:58
Analyst:	CR
Drying Oven:	15
Analytical Balance:	B139298002

Batch drying time					
Record times as mm/dd/yy hh:mm		**Oven Temp, C**	**TS (%) calculated as:**	**Oven Temps, °C**	
Date/time in oven:	12/14/2022 16:22	107	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	107
Date/time out:	12/15/2022 10:25	105	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	105
Elapsed hrs:	18.1				

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-21	0.8100	12.7000	11.4500	10.64	**89.49%**	No
22L0199-22	0.8200	12.4300	9.5700	8.75	**75.37%**	No
22L0199-23	0.7900	12.2000	8.5300	7.74	**67.84%**	No
22L0199-24	0.7700	12.7000	6.9300	6.16	**51.63%**	Yes
22L0199-25	0.7600	11.4400	6.3000	5.54	**51.87%**	Yes
22L0199-26	0.7700	11.2300	6.2400	5.47	**52.29%**	No
22L0199-27	0.8300	11.3100	6.4700	5.64	**53.82%**	Yes
22L0199-28	0.8100	12.0000	6.8300	6.02	**53.80%**	No
22L0199-29	0.8200	11.3100	6.8300	6.01	**57.29%**	Yes
22L0199-30	0.8000	11.5500	7.1700	6.37	**59.26%**	No
22L0199-31	0.8100	12.4100	8.7500	7.94	**68.45%**	Yes
22L0199-32	0.8400	12.2000	9.1300	8.29	**72.98%**	No
22L0199-33	0.8200	12.6900	10.3400	9.52	**80.20%**	Yes
22L0199-34	0.8400	11.0900	9.2500	8.41	**82.05%**	No
22L0199-35	0.8000	11.2500	6.2400	5.44	**52.06%**	No
22L0199-36	0.8100	12.1700	7.6400	6.83	**60.12%**	Yes
22L0199-37	0.8200	12.7900	7.1600	6.34	**52.97%**	Yes
22L0199-38	0.8100	11.6600	6.8800	6.07	**55.94%**	Yes
22L0199-39	0.8100	12.8800	7.6900	6.88	**57.00%**	Yes
22L0199-40	0.8100	12.7900	7.6100	6.80	**56.76%**	Yes

HT: 12/26

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0342
Date:	12/13/2022 15:58
Analyst:	CR
Drying Oven:	OLS
Analytical Balance:	B139298002

Batch drying time

Record times as mm/dd/yy hh:mm

			Oven Temp, C
Date/time in oven:	12/14/22	16:22	107
Date/time out:	12/15/22	10:25	105
Elapsed hrs:	0.0		

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	107
End Temp:	105

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-21 B	0.81	12.70	11.45		—	No
22L0199-22	0.82	12.43	9.57			No
22L0199-23	0.79	12.20	8.53			No
22L0199-24	0.77	12.70	6.93			No yes
22L0199-25	0.76	11.44	6.30			No yes
22L0199-26	0.77	11.23	6.24			No
22L0199-27	0.83	11.31	6.47			No yes
22L0199-28	0.81	12.00	6.83			No
22L0199-29	0.82	11.31	6.83			No yes
22L0199-30	0.80	11.55	7.17			No
22L0199-31	0.81	12.41	8.75			No yes
22L0199-32	0.84	12.20	9.13			No
22L0199-33	0.82	12.69	10.34			No yes
22L0199-34	0.84	11.09	9.25			No
22L0199-35	0.80	11.25	6.24			No
22L0199-36	0.81	12.17	7.64			No yes
22L0199-37	0.82	12.79	7.16			No yes
22L0199-38	0.81	11.66	6.88			No yes
22L0199-39	0.81	12.88	7.69			No yes
22L0199-40 B	0.81	12.79	7.61			No yes

T/S + Screens
no copies

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0344
Date:	12/13/2022 16:01
Analyst:	YL
Drying Oven:	15
Analytical Balance:	B146462614

Batch drying time

Record times as mm/dd/yy hh:mm

Date/time in oven:	12/14/2022 15:56
Date/time out:	12/15/2022 10:28
Elapsed hrs:	18.5

Oven Temp, C 105 105

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	105
End Temp:	105

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-41	0.7900	11.7200	6.8400	6.05	**55.35%**	Yes
22L0199-42	0.8000	11.8500	7.1100	6.31	**57.10%**	Yes
22L0199-43	0.8000	12.1600	7.9300	7.13	**62.76%**	No
22L0199-44	0.8000	11.7300	7.5400	6.74	**61.67%**	No
22L0199-45	0.8100	11.4600	7.2500	6.44	**60.47%**	No
22L0199-46	0.8100	12.6600	10.2800	9.47	**79.92%**	Yes
22L0199-47	0.7900	11.1700	8.7000	7.91	**76.20%**	Yes
22L0199-48	0.8000	12.0000	6.9100	6.11	**54.55%**	Yes
22L0199-49	0.8100	11.3400	6.8000	5.99	**56.89%**	Yes
22L0199-50	0.8000	11.2700	6.6900	5.89	**56.26%**	Yes
22L0199-51	0.8100	12.0100	7.4900	6.68	**59.64%**	Yes
22L0199-52	0.8300	12.0500	7.6200	6.79	**60.52%**	Yes
22L0199-53	0.8000	11.7900	9.2500	8.45	**76.89%**	Yes
22L0199-54	0.8000	12.8000	8.6400	7.84	**65.33%**	Yes
22L0199-55	0.7900	11.9700	8.5200	7.73	**69.14%**	Yes
22L0199-56	0.7900	12.0800	8.1200	7.33	**64.92%**	Yes
22L0199-57	0.8000	11.8800	8.0800	7.28	**65.70%**	Yes
22L0199-58	0.7900	11.2900	8.4100	7.62	**72.57%**	Yes
22L0199-59	0.8000	11.7000	8.9200	8.12	**74.50%**	Yes
22L0199-60	0.8000	12.1700	9.6800	8.88	**78.10%**	Yes

HT: 12/14

TOTAL SOLIDS BENCHSHEET
Method: PSEP 1986
(dry at 103-105 C)
Instrumentation

Batch:	BKL0344
Date:	12/13/2022 16:01
Analyst:	YL
Drying Oven:	Φ15
Analytical Balance:	B1464626 14

Batch drying time
Record times as mm/dd/yy hh:mm

			Oven Temp, C
Date/time in oven:	12/14/22	15:56	105
Date/time out:	12/15/22	10:28	105
Elapsed hrs:	0.0		

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	105
End Temp:	105

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-41 B	Φ.79	11.72	6.84			No ~~yes~~
22L0199-42	Φ.8Φ	11.85	7.11			No ~~yes~~
22L0199-43	Φ.8Φ	12.16	7.93			No
22L0199-44	Φ.8Φ	11.73	7.54			No
22L0199-45	Φ.81	11.46	7.25			No
22L0199-46	Φ.81	12.66	1Φ.28			~~No~~ yes
22L0199-47	Φ.79	11.17	2.7Φ			~~No~~ yes
22L0199-48	Φ.8Φ	12.ΦΦ	6 ~~6~~.91			~~No~~ yes
22L0199-49	Φ.81	11.34	6.8Φ			~~No~~ yes
22L0199-50	Φ.8Φ	11.27	6.69			~~No~~ yes
22L0199-51	Φ.81	12.Φ1	7.49			~~No~~ yes
22L0199-52	Φ.83	12.Φ5	7.62			~~No~~ yes
22L0199-53	Φ.8Φ	11.79	9.25			~~No~~ yes
22L0199-54	Φ.8Φ	12.8Φ	8.64			~~No~~ yes
22L0199-55	Φ.79	11.97	8.52			~~No~~ yes
22L0199-56	Φ.79	12.98	8.12			~~No~~ yes
22L0199-57	Φ.8Φ	11.88	8.08			~~No~~ yes
22L0199-58	Φ.79	11.29	8.41			~~No~~ yes
22L0199-59	Φ.8Φ	11.7Φ	8.92			~~No~~ yes
22L0199-60 L	Φ.8Φ	12.17	9.69			~~No~~ yes

T/S + Screen
no caps

OE CAT
#1 Dru
YL
12/15/22

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0345
Date:	12/13/2022 16:03
Analyst:	SH
Drying Oven:	15
Analytical Balance:	B334705934

Batch drying time					
Record times as mm/dd/yy hh:mm		**Oven Temp, C**	**TS (%) calculated as:**	**Oven Temps, °C**	
Date/time in oven:	12/15/2022 16:45	112	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	112
Date/time out:	12/16/2022 15:26	110	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	110
Elapsed hrs:	22.7				

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-61	0.8300	11.0400	6.6200	5.79	**56.71%**	Yes
22L0199-62	0.8200	10.8800	6.5800	5.76	**57.26%**	Yes
22L0199-63	0.7900	10.9400	6.7600	5.97	**58.82%**	Yes
22L0199-64	0.7900	10.8700	7.2100	6.42	**63.69%**	No
22L0199-65	0.7900	11.0400	6.6400	5.85	**57.07%**	No
22L0199-66	0.8000	11.0100	7.1500	6.35	**62.19%**	No
22L0199-67	0.8000	10.7000	7.0700	6.27	**63.33%**	No
22L0199-68	0.8100	10.8900	7.1400	6.33	**62.80%**	No
22L0199-69	0.8000	10.8600	7.2000	6.40	**63.62%**	No
22L0199-70	0.7900	10.9400	7.6100	6.82	**67.19%**	No

HT: 12/26

TOTAL SOLIDS BENCHSHEET		Batch:	BKL0345
Method: PSEP 1986		Date:	12/13/2022 16:03
(dry at 103-105 C)		Analyst:	SH
Instrumentation		Drying Oven:	Φ15
		Analytical Balance:	B334 #5934

Batch drying time			Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Record times as mm/dd/yy hh:mm						
Date/time in oven:	12/15/22	16:45	112	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	112
Date/time out:	12/16/22	15:26	11Φ	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	11Φ
Elapsed hrs:	0.0					

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0199-61 B	Φ.83	11.Φ4	6.67			~~No~~ Yes
22L0199-62 B	Φ.82	1Φ.88	6.58			~~No~~ Yes
22L0199-63 B	Φ.79	1Φ.94	6.76			~~No~~ Yes
22L0199-64 B	Φ.79	1Φ.87	7.21			No
22L0199-65 B	Φ.79	11.Φ4	6.64			No
22L0199-66 B	Φ.8Φ	11.Φ1	7.15			No
22L0199-67 B	Φ.8Φ	1Φ.97	7.07			No
22L0199-68 B	Φ.81	1Φ.89	7.14			No
22L0199-69 B	Φ.8Φ	1Φ.86	7.2Φ			No
22L0199-70 B	Φ.79	1Φ.94	7.61			No

T/S +5 cans
No copies