AECOS, Inc.

45-939 Kamehameha Hwy, Suite 104 · Kaneohe, HI 96744
Telephone: (808) 234-7770 · Fax: (808) 234-7775 · aecos@aecos.com

CLIENT: Cardno-GS / Stantec
737 Bishop Street, Suite 3050
Honolulu HI 96813
ATTENTION: Benjamin Berridge / Hannah Hubanks
Benjamin.Berridge@cardno-gs.com

FILE No.:	1494
REPORT DATE:	01/25/2024
PAGE:	1 of 1

AECOS REPORT OF RESULTS

SAMPLE TYPE: water
DATE SAMPLED: 01/22/24
DATE/TIME RECEIVED: 01/22/24 @1547
TEMP. CONTROL: 10.5 °C
DATE/TIME ANALYZED: 01/22/24 @1617

***AECOS* LOG No.:** 49710
SAMPLER: J. Hawkins, B. Berridge
MATRIX: Water
ANALYST: R. Knapstein, J. Withrow

	ANALYTE (UNITS)	Enterococcus (MPN/100ml)	*Dilution Factor (10 ml / 100 ml)*	*Number of large positive wells*	*Number of small positive wells*
	METHOD →	ASTM D650399	---	---	---
SAMPLE ID ⇩	TIME SAMPLED ⇩				
U-3/WW-4	0900	930	*10*	*40*	*8*
D-8	0915	3900	*10*	*49*	*22*
D-2	0920	10,000	*10*	*49*	*39*
D-3	0935	1300	*10*	*44*	*12*
D-7	0945	3400	*10*	*48*	*25*
D-4	0945	320	*10*	*20*	*5*
WW-3	1005	320	*10*	*24*	*0*
WW-6	1010	12,000	*10*	*49*	*41*
D-6	1005	450	*10*	*27*	*5*
E-1	1045	480	*10*	*27*	*7*
E-1 / Dup	1050	440	*10*	*26*	*6*
U-2 / WW-5	1100	1200	*10*	*38*	*22*

for *AECOS*, Inc.

AECOS, Inc.

45-939 Kamehameha Highway Suite 104
Kaneohe, Oahu, HI 96744
Tel: (808) 234-7770 Fax: 234-7775

CHAIN OF CUSTODY FORM

PROJECT FILE No.:

LOG NUMBER [049740]

CLIENT: Cardno/Stantec GS
ADDRESS: 737 Bishop Street, Honolulu 96813

CONTACT: Ben Berridge
PHONE No.: ☎ 808-476-0067
Purchase Order No.:

☐ RUSH
☐ SEE REVERSE
SPECIAL INSTRUCTIONS

	☑	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
1		U-3/WW-4	1/22/2024	0900	W	1	idexx	enterococci	
2		D-8		09:15					
3		D-2		09:20					
4		D-3		09:35					
5		D-7		09:45					
6		D-4		09:45					
7		WW-3		10:05					
8		WW-6		10:10					
9		D-6		10:05					
10		E-1		10:45					

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE. NOTE: NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW ↓. INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY: Jess Hawkins — DATE 1/22/2024
PRINT NAME Ben Berridge
RELINQUISHED: — DATE 1/22/2024
SIGNATURE — TIME 1545

COMMENTS:

RECEIVED BY: — DATE 20___
SIGNATURE — TIME
RELINQUISHED: — DATE 20___
SIGNATURE OR INITIALS — TIME

PRECAUTIONS:

RECEIVED FOR LABORATORY: — DATE 1/22/24
SIGNATURE — TIME 1547
RELINQUISHED: — DATE 20___
SIGNATURE OR INITIALS — TIME

DISPOSAL:

T=10.5°C

RETURN SAMPLE TO CLIENT ☐

USE (BLACK) INK

AECOS, Inc.

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Kaneohe, Oahu, HI 96744
Tel: (808) 234-7770 Fax: 234-7775

CHAIN OF CUSTODY FORM

PROJECT FILE No.:

LOG NUMBER [49710]

CLIENT: Stantec/Cardno GS

ADDRESS: 737 Bishop St., Honolulu HI 96813

CONTACT: Ben Berridge

PHONE No.: ☎ 808-476-0067

Purchase Order No.:

☐ RUSH
☐ SEE REVERSE

SPECIAL INSTRUCTIONS

	☑	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
1		E-1 DUP	1/22/2024	10:50	W	1	idexx	enterococci	
2		U-2/WW-5	1/22/2024	11:00	W	1	idexx	enterococci	
3									
4									
5									
6									
7									
8									
9									
10									

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE, NOTE: NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW ↓. INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY: Jess Hankins — DATE 1/22/20 24
PRINT NAME Ben Berridge
RELINQUISHED: — DATE 1/22 20 24
SIGNATURE — TIME 1545

COMMENTS:

RECEIVED BY: — DATE 20___
SIGNATURE — TIME
RELINQUISHED: — DATE 20___
SIGNATURE OR INITIALS — TIME

PRECAUTIONS:

RECEIVED FOR LABORATORY: — DATE 1/22 20 24
SIGNATURE — TIME 1547
RELINQUISHED: — DATE 20___
SIGNATURE OR INITIALS — TIME

DISPOSAL:

T=10.5°C

RETURN SAMPLE TO CLIENT ☐

USE (BLACK) INK

Matrix SCIENCES | PAL PACIFIC AGRICULTURAL LABORATORY

PACAGLAB.COM
503.626.7943
21830 S.W. Alexander Ln
Sherwood, OR 97140

Anatek Labs Inc
504 E Sprague Ave, Suite D
Spokane, WA 99202

Report Number: P240124
Report Date: February 21, 2024
Client Project ID: [none]

Analytical Report

Client Sample ID: WEA0829-01
Matrix: water

PAL Sample ID: P240124-01
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 98 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

Client Sample ID: WEA0829-03
Matrix: water

PAL Sample ID: P240124-02
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 102 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

Client Sample ID: WEA0829-04
Matrix: water

PAL Sample ID: P240124-03
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 101 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Kara Greer, Project Manager

PACAGLAB.COM
503.626.7943
21830 S.W. Alexander Ln
Sherwood, OR 97140

Anatek Labs Inc
504 E Sprague Ave, Suite D
Spokane, WA 99202

Report Number: P240124
Report Date: February 21, 2024
Client Project ID: [none]

Analytical Report

Client Sample ID: WEA0829-05
Matrix: water

PAL Sample ID: P240124-04
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 94 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Kara Greer, Project Manager

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Sherwood, OR 97140

Anatek Labs Inc
504 E Sprague Ave, Suite D
Spokane, WA 99202

Report Number: P240124
Report Date: February 21, 2024
Client Project ID: [none]

Quality Assurance

Method Blank Data **Matrix:** water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
2/12/24	2/13/24	24B1208-BLK1	Paraquat	Not Detected	< 10 ug/L	

Blank Spike Data **Matrix:** water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
2/12/24	2/13/24	24B1208-BS1	Paraquat	96	60-140	
2/12/24	2/13/24	24B1208-BSD1	Paraquat	99	60-140	

Project Notes

Notes	Definition
H1	The sample was received and extracted outside of recommended hold time.

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Kara Greer, Project Manager

ANATEK LABS

Analytical Results Report For:

Stantec-GS

Project Number:

ADC Water Quality Monitoring

Anatek Work Order:

WEA0829

Anatek Moscow - 1282 Alturas Drive - Moscow, ID 83843 - 208-883-2839 - moscow@anateklabs.com - FL NELAP E87893
Anatek Spokane - 504 E Sprague Ste. D - Spokane, WA 99202 - 509-838-3999 - spokane@anateklabs.com - FL NELAP E871099
Anatek Yakima - 4802 Tieton Drive - Yakima, WA 98908 - 509-225-9404 - yakima@anateklabs.com - FL NELAP E871190
Anatek Wenatchee - 3019 Gs Center Rd - Wenatchee, WA 98801 - 509-701-8362

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client:	Stantec-GS	Work Order:	WEA0829
Address:	737 Bishop St., Ste. 3050	Project:	ADC Water Quality Monitoring
	Honolulu, HI 96813	Reported:	5/8/2024 21:10
Attn:	Benjamin Berridge		

Analytical Results Report

Sample Location: WW-3
Lab/Sample Number: WEA0829-01 Collect Date: 01/22/24 10:05
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	5.75	mg/L			1/27/24 0:00	ARS	EPA 160.2	C6
Metals by ICP-MS								
Arsenic	0.000907	mg/L	0.000140	0.00100	2/2/24 13:28	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 11:56	JLG	EPA 245.1	
Semivolatiles								
Atrazine	<0.0500	ug/L	0.0500	0.100	2/9/24 21:13	MAH	EPA 625.1	
Metolachlor	<0.0500	ug/L	0.0500	0.100	2/9/24 21:13	MAH	EPA 625.1	
Permethrin	<0.250	ug/L	0.250	0.500	2/21/24 21:00	MAH	EPA 625.1	
Surrogate: Terphenyl-d14	*114%*		*25-135*		*2/9/24 21:13*	*MAH*	*EPA 625.1*	
Diesel	<0.0520	mg/L	0.0520	0.0800	1/29/24 23:28	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/29/24 23:28	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/29/24 23:28	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/29/24 23:28	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*90.1%*		*50-150*		*1/29/24 23:28*	*EMG*	*NWTPH-HCID*	

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Sample Location: WW-6
Lab/Sample Number: WEA0829-02 Collect Date: 01/22/24 10:10
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	5.00	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000355	mg/L	0.000140	0.00100	2/2/24 13:35	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 11:59	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 0:23	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 0:23	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 0:23	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 0:23	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*95.0%*		*50-150*		*1/30/24 0:23*	*EMG*	*NWTPH-HCID*	

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Sample Location: E-1
Lab/Sample Number: WEA0829-03 Collect Date: 01/22/24 10:45
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	15.0	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00160	mg/L	0.000140	0.00100	2/2/24 13:38	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:06	JLG	EPA 245.1	
Semivolatiles								
Atrazine	<0.0500	ug/L	0.0500	0.100	2/9/24 21:41	MAH	EPA 625.1	
Metolachlor	<0.0500	ug/L	0.0500	0.100	2/9/24 21:41	MAH	EPA 625.1	
Permethrin	<0.250	ug/L	0.250	0.500	2/21/24 21:28	MAH	EPA 625.1	
Surrogate: Terphenyl-d14	*118%*		*25-135*		*2/9/24 21:41*	*MAH*	*EPA 625.1*	
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 1:18	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 1:18	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 1:18	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 1:18	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*88.4%*		*50-150*		*1/30/24 1:18*	*EMG*	*NWTPH-HCID*	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: E-1 Dup
Lab/Sample Number: WEA0829-04 Collect Date: 01/22/24 10:50
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	30.0	mg/L			2/5/24 17:03	ARY	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00137	mg/L	0.000140	0.00100	2/2/24 13:40	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:09	JLG	EPA 245.1	
Semivolatiles								
Atrazine	<0.0500	ug/L	0.0500	0.100	2/9/24 22:08	MAH	EPA 625.1	
Metolachlor	<0.0500	ug/L	0.0500	0.100	2/9/24 22:08	MAH	EPA 625.1	
Permethrin	<0.250	ug/L	0.250	0.500	2/21/24 21:55	MAH	EPA 625.1	
Surrogate: Terphenyl-d14	*104%*		*25-135*		*2/9/24 22:08*	*MAH*	*EPA 625.1*	
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 2:13	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 2:13	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 2:13	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 2:13	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*72.5%*		*50-150*		*1/30/24 2:13*	*EMG*	*NWTPH-HCID*	

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Sample Location: E-1 MS/MSD

Lab/Sample Number: WEA0829-05 Collect Date: 01/22/24 11:00

Date Received: 01/25/24 09:50 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	9.44	mg/L			2/1/24 15:32	ARY	EPA 160.2	C6
Metals by ICP-MS								
Arsenic	0.00125	mg/L	0.000140	0.00100	2/2/24 13:42	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:14	JLG	EPA 245.1	
Semivolatiles								
Atrazine	<0.0500	ug/L	0.0500	0.100	2/9/24 22:36	MAH	EPA 625.1	
Metolachlor	<0.0500	ug/L	0.0500	0.100	2/9/24 22:36	MAH	EPA 625.1	
Permethrin	<0.250	ug/L	0.250	0.500	2/21/24 22:22	MAH	EPA 625.1	
Surrogate: Terphenyl-d14	*99.4%*		*25-135*		*2/9/24 22:36*	*MAH*	*EPA 625.1*	
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 3:08	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 3:08	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 3:08	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 3:08	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*89.0%*		*50-150*		*1/30/24 3:08*	*EMG*	*NWTPH-HCID*	

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Sample Location: D-2
Lab/Sample Number: WEA0829-06 Collect Date: 01/22/24 09:20
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	8.00	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0301	mg/L	0.000140	0.00100	2/2/24 13:45	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:16	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 4:03	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 4:03	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 4:03	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 4:03	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*82.0%*		*50-150*		*1/30/24 4:03*	*EMG*	*NWTPH-HCID*	

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: D-3
Lab/Sample Number: WEA0829-07 Collect Date: 01/22/24 09:35
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	7.00	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00131	mg/L	0.000140	0.00100	2/2/24 13:47	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:19	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 4:58	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 4:58	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 4:58	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 4:58	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*95.8%*		*50-150*		*1/30/24 4:58*	*EMG*	*NWTPH-HCID*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: D-4
Lab/Sample Number: WEA0829-08 Collect Date: 01/22/24 09:45
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	15.0	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00164	mg/L	0.000140	0.00100	2/2/24 13:49	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:42	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	2/2/24 22:02	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/2/24 22:02	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	2/2/24 22:02	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/2/24 22:02	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*96.7%*		*50-150*		*2/2/24 22:02*	*EMG*	*NWTPH-HCID*	

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Sample Location: D-6
Lab/Sample Number: WEA0829-09 Collect Date: 01/22/24 10:05
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	8.00	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00152	mg/L	0.000140	0.00100	2/2/24 13:52	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:44	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 5:53	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 5:53	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 5:53	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 5:53	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*82.4%*		*50-150*		*1/30/24 5:53*	*EMG*	*NWTPH-HCID*	

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Sample Location: D-7
Lab/Sample Number: WEA0829-10 Collect Date: 01/22/24 09:45
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	23.0	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000282	mg/L	0.000140	0.00100	2/2/24 13:54	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:47	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 6:48	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 6:48	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 6:48	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 6:48	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*96.5%*		*50-150*		*1/30/24 6:48*	*EMG*	*NWTPH-HCID*	

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Sample Location: D-8
Lab/Sample Number: WEA0829-11 Collect Date: 01/22/24 10:05
Date Received: 01/25/24 09:50 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	4.00	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00484	mg/L	0.000140	0.00100	2/2/24 14:05	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:49	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 7:43	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 7:43	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 7:43	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 7:43	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*80.2%*		*50-150*		*1/30/24 7:43*	*EMG*	*NWTPH-HCID*	

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Sample Location: U-2/WW-5

Lab/Sample Number: WEA0829-12 Collect Date: 01/22/24 11:00

Date Received: 01/25/24 09:50 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	4.00	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000193	mg/L	0.000140	0.00100	2/2/24 14:08	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:32	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 8:38	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 8:38	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 8:38	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 8:38	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*99.2%*		*50-150*		*1/30/24 8:38*	*EMG*	*NWTPH-HCID*	

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Sample Location: U-3/WW-4

Lab/Sample Number: WEA0829-13 Collect Date: 01/22/24 09:00

Date Received: 01/25/24 09:50 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	16.0	mg/L			1/27/24 13:45	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000275	mg/L	0.000140	0.00100	2/2/24 14:10	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	2/5/24 12:52	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	1/30/24 9:33	EMG	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	1/30/24 9:33	EMG	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	1/30/24 9:33	EMG	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	1/30/24 9:33	EMG	NWTPH-HCID	
Surrogate: n-Hexacosane	*92.1%*		*50-150*		*1/30/24 9:33*	*EMG*	*NWTPH-HCID*	

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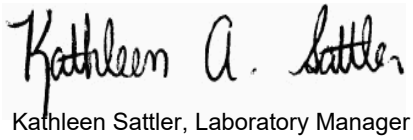
Authorized Signature,



Kathleen Sattler, Laboratory Manager

C6	Initial analysis within holding time; internal QC didn't pass. Confirmatory analysis past holding time, did not confirm initial result. Result of second analysis reported.
J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
S12	Surrogate recovery was low.
PQL	Practical Quantitation Limit
ND	Not Detected
MDL	Method Detection Limit
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEA0840 - W Filtration										
Blank (BEA0840-BLK1)					Prepared: 01/27/24 13:45- Analyzed: 02/05/24 17:03					
TSS	<1			mg/L						
Blank (BEA0840-BLK2)					Prepared: 01/27/24 13:45- Analyzed: 02/05/24 17:03					
TSS	<1			mg/L						
Blank (BEA0840-BLK3)					Prepared: 01/27/24 13:45- Analyzed: 02/05/24 17:03					
TSS	<1			mg/L						
Blank (BEA0840-BLK4)					Prepared: 01/27/24 13:45- Analyzed: 02/05/24 17:03					
TSS	<1			mg/L						
LCS (BEA0840-BS1)					Prepared: 01/27/24 00:00- Analyzed: 02/05/24 17:03					
TSS	92.0			mg/L	100		92.0	90-110		
Duplicate (BEA0840-DUP2)		**Source: WEA0829-04**			Prepared: 01/27/24 00:00- Analyzed: 02/05/24 17:03					
TSS	32.0			mg/L		30.0			6.45	20
Batch: BEB0037 - W Filtration										
Blank (BEB0037-BLK1)					Prepared: 02/01/24 15:32- Analyzed: 02/05/24 16:55					
TSS	<1			mg/L						
Blank (BEB0037-BLK2)					Prepared: 02/01/24 15:32- Analyzed: 02/05/24 16:55					
TSS	<1			mg/L						
LCS (BEB0037-BS1)					Prepared: 02/01/24 15:32- Analyzed: 02/05/24 16:55					
TSS	92.0			mg/L	100		92.0	90-110		

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Quality Control Data
(Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEB0037 - W Filtration (Continued)										
LCS (BEB0037-BS2)					Prepared: 02/01/24 15:32- Analyzed: 02/05/24 16:55					
TSS	94.0			mg/L	100		94.0	90-110		
Duplicate (BEB0037-DUP1)			**Source: WEA0829-01**		Prepared: 02/01/24 15:32- Analyzed: 02/05/24 16:55					
TSS	6.25			mg/L		5.75			8.33	20

Quality Control Data
(Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEA0967 - W 3010 Digest										
Blank (BEA0967-BLK1)					Prepared: 01/31/24 10:06- Analyzed: 02/02/24 13:21					
Arsenic	ND		0.00100	mg/L						
LCS (BEA0967-BS1)					Prepared: 01/31/24 10:06- Analyzed: 02/02/24 13:26					
Arsenic	0.0526		0.00100	mg/L	0.0500		105	85-115		
Matrix Spike (BEA0967-MS1)			**Source: WEA0829-13**		Prepared: 01/31/24 10:06- Analyzed: 02/02/24 13:31					
Arsenic	0.0562		0.00100	mg/L	0.0500	0.000275	112	70-130		
Matrix Spike (BEA0967-MS2)			**Source: WEA0829-01**		Prepared: 01/31/24 10:06- Analyzed: 02/02/24 14:12					
Arsenic	0.0479		0.00100	mg/L	0.0500	0.000907	94.1	70-130		
Matrix Spike Dup (BEA0967-MSD1)			**Source: WEA0829-13**		Prepared: 01/31/24 10:06- Analyzed: 02/02/24 13:33					
Arsenic	0.0541		0.00100	mg/L	0.0500	0.000275	108	70-130	3.73	20
Matrix Spike Dup (BEA0967-MSD2)			**Source: WEA0829-01**		Prepared: 01/31/24 10:06- Analyzed: 02/02/24 14:15					
Arsenic	0.0510		0.00100	mg/L	0.0500	0.000907	100	70-130	6.11	20

Quality Control Data
(Continued)

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEA0987 - W 245.1 Digest										
Blank (BEA0987-BLK1)					Prepared: 01/31/24 14:55- Analyzed: 02/05/24 11:51					
Mercury	ND		0.100	ug/L						
LCS (BEA0987-BS1)					Prepared: 01/31/24 14:55- Analyzed: 02/05/24 11:54					
Mercury	5.37		0.100	ug/L	5.60		95.9	85-115		
Matrix Spike (BEA0987-MS1)			**Source: WEA0829-02**		Prepared: 01/31/24 14:55- Analyzed: 02/05/24 12:01					
Mercury	5.26		0.100	ug/L	5.60	<0.0710	93.9	70-130		
Matrix Spike (BEA0987-MS2)			**Source: WEA0829-12**		Prepared: 01/31/24 14:55- Analyzed: 02/05/24 12:34					

Quality Control Data
(Continued)

Mercury (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEA0987 - W 245.1 Digest (Continued)										
Matrix Spike (BEA0987-MS2)		**Source: WEA0829-12**			Prepared: 01/31/24 14:55- Analyzed: 02/05/24 12:34					
Mercury	5.19		0.100	ug/L	5.60	<0.0710	92.7	70-130		
Matrix Spike Dup (BEA0987-MSD1)		**Source: WEA0829-02**			Prepared: 01/31/24 14:55- Analyzed: 02/05/24 12:04					
Mercury	4.92		0.100	ug/L	5.60	<0.0710	87.9	70-130	6.68	20
Matrix Spike Dup (BEA0987-MSD2)		**Source: WEA0829-12**			Prepared: 01/31/24 14:55- Analyzed: 02/05/24 12:37					
Mercury	4.57		0.100	ug/L	5.60	<0.0710	81.6	70-130	12.7	20

Quality Control Data
(Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEA0864 - W TPH-Dx										
Blank (BEA0864-BLK1)					Prepared: 01/29/24 11:20- Analyzed: 01/29/24 20:44					
Lube Oil	ND		0.0800	mg/L						
Mineral Oil	ND		0.400	mg/L						
Gasoline	ND		0.400	mg/L						
Diesel	ND		0.0800	mg/L						
Surrogate: n-Hexacosane			*0.207*	*mg/L*	*0.200*		*103*	*50-150*		
LCS (BEA0864-BS1)					Prepared: 01/29/24 11:20- Analyzed: 01/29/24 21:38					
Diesel	0.873		0.0800	mg/L	1.04		83.9	70-130		
Surrogate: n-Hexacosane			*0.152*	*mg/L*	*0.200*		*75.8*	*50-150*		
LCS Dup (BEA0864-BSD1)					Prepared: 01/29/24 11:20- Analyzed: 01/29/24 22:33					
Diesel	0.967		0.0800	mg/L	1.04		92.9	70-130	10.2	20
Surrogate: n-Hexacosane			*0.196*	*mg/L*	*0.200*		*97.6*	*50-150*		
Batch: BEB0058 - W TPH-Dx										
Blank (BEB0058-BLK1)					Prepared: 02/02/24 10:22- Analyzed: 02/02/24 19:16					
Lube Oil	ND		0.0800	mg/L						
Mineral Oil	ND		0.400	mg/L						
Gasoline	ND		0.400	mg/L						
Diesel	ND		0.0800	mg/L						
Surrogate: n-Hexacosane		*S12*	*0.0978*	*mg/L*	*0.200*		*48.8*	*50-150*		
LCS (BEB0058-BS1)					Prepared: 02/02/24 10:22- Analyzed: 02/02/24 20:11					
Diesel	0.742		0.0800	mg/L	1.04		71.4	70-130		
Surrogate: n-Hexacosane			*0.184*	*mg/L*	*0.200*		*91.9*	*50-150*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEB0058 - W TPH-Dx (Continued)										
LCS Dup (BEB0058-BSD1)					Prepared: 02/02/24 10:22- Analyzed: 02/02/24 21:06					
Diesel	0.843		0.0800	mg/L	1.04		81.1	70-130	12.7	20
Surrogate: n-Hexacosane			*0.180*	*mg/L*	*0.200*		*89.7*	*50-150*		
Batch: BEB0358 - SVOC Water										
Blank (BEB0358-BLK1)					Prepared: 01/29/24 00:29- Analyzed: 02/09/24 20:45					
Atrazine	ND		0.100	ug/L						
Metolachlor	ND		0.100	ug/L						
Permethrin	ND		0.500	ug/L						
Surrogate: Terphenyl-d14			*27.6*	*ug/L*	*25.0*		*110*	*25-135*		
LCS (BEB0358-BS1)					Prepared: 01/29/24 00:29- Analyzed: 02/09/24 19:50					
Atrazine	4.67		0.100	ug/L	5.00		93.4	60-125		
Metolachlor	4.48		0.100	ug/L	5.00		89.6	60-125		
Surrogate: Terphenyl-d14			*26.4*	*ug/L*	*25.0*		*105*	*25-135*		
LCS Dup (BEB0358-BSD1)					Prepared: 01/29/24 00:29- Analyzed: 02/09/24 20:17					
Atrazine	4.49		0.100	ug/L	5.00		89.8	60-125	3.93	25
Metolachlor	4.28		0.100	ug/L	5.00		85.6	60-125	4.57	25
Surrogate: Terphenyl-d14			*25.2*	*ug/L*	*25.0*		*101*	*25-135*		

WEA0829

Due: 02/08/24

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
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Anatek Log-In #

Company Name:	Stantec GS (form. Cardno-GS)
Address:	737 Bishop St Suite 3050
City:	Honolulu State: HI Zip: 96813
Phone:	(808) 476-0067
Fax:	
Project Manager:	Benjamin Berridge
Project Name & # :	ADC Water Quality Monitoring
Email Address :	benjamin.berridge@cardno-gs.com
Purchase Order #:	
Sampler Name & phone:	

Turn Arc

Please refer to our normal turn around times at:
http://www.anateklabs.com/services/guidelines/reporting.asp

_✓_Normal __Next Day* __2nd Day* __Other*_____

*All rush order requests must be prior approved.

__Phone __Mail __Fax _✓_Email

Provide Sample Description

Storm water samples

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	TSS EPA 160.2	TPH HCID - SW 846 MOD 8015	**TPH GRO SW846M8015	Arsenic EPA 200.8	Mercury EPA 245.1	Pesticides-EPA 625 SIM Permethrin, Atrazine & Metolachlor	Glyphosate EPA 547	Paraquat Dichloride EPA		
3	WW-3	1-22-2024 / 10:05 HST	Water		7		X	X	X	X	X	X		X		
2	WW-6	1-22-2024 / 10:10 HST	Water		5		X	X	X	X	X	X				
1	E-1	1-22-2024 / 10:45 HST	Water		7		X	X	X	X	X	X		X		
2	E-1 DUP	1-22-2024 / 10:50 HST	Water		7		X	X	X	X	X	X		X		
1	E-1 MS/MSD	1-22-2024 / 11:00 HST	Water		7		X	X	X	X	X	X		X		
1	D-2	1-22-2024 / 09:20 HST	Water		5		X	X	X	X	X					
3	D-3	1-22-2024 / 09:35 HST	Water		5		X	X	X	X	X					
3	D-4	1-22-2024 / 09:45 HST	Water		5		X	X	X	X	X					
3	D-6	1-22-2024 / 10:05 HST	Water		5		X	X	X	X	X					
3	D-7	1-22-2024 / 09:45 HST	Water		5		X	X	X	X	X					
2	D-8	1-22-2024 / 09:15 HST	Water		5		X	X	X	X	X					
3	U-2/WW-5	1-22-2024 / 11:00 HST	Water		5		X	X	X	X	X					
1	U-3/WW-4	1-22-2024 / 09:00 HST	Water		5		X	X	X	X	X					

Note Special Instructions/Comments

**Please do not conduct TPH GRO analysis until Cardno confirms it should be run.

	Printed Name	Signature	Company	Date	Time
Relinquished by	Benjamin Berridge		Stantec	1-23-24	14:00
Received by				1/25/24	0950
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact?	(Y)	N
Labels & Chains Agree?	Y	N
Containers Sealed?	(Y)	N
VOC Head Space?	Y	N

Temperature (°C): 6.9/7.6 IR-6 - cooler 3; 4.4/5.1 IR-6 - cooler 2; 2.2/2.9 IR-6 - cooler 1

Preservative:

Date & Time: 1/25/25 1000

Inspected By: ZH

FedEx

1Form COC01.00 - Eff 1 Mar 2015

Starting sequence Fri Feb 09 16:04:58 2024

Instrument Name: MSD4
Sequence File: T:\Data1\MSD4\SEQUENCES\2024\CARDNO.s
Comment: CARDNO 625
Operator: MAH
Data Path: T:\DATA1\MSD4\2024\FEB\09CD\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	00101001	SVOCT1	SYS
2)	Sample	2	00201002	CARDSIM	CARDNO 10 PPM
3)	Sample	3	00301003	CARDSIM	CARDNO 5 PPM
4)	Sample	4	00401004	CARDSIM	CARDNO 2.5 PPM
5)	Sample	5	00501005	CARDSIM	CARDNO 1 PPM
6)	Sample	6	00601006	CARDSIM	CARDNO 0.5 PPM
7)	Sample	7	00701007	CARDSIM	CARDNO 0.1 PPM
8)	Sample	8	00801008	CARDSIM	CARDNO 0.05 PPM
9)	Sample	11	01101009	CARDSIM	BEB0358-BS1
10)	Sample	12	01201010	CARDSIM	BEB0358-BSD1
11)	Sample	13	01301011	CARDSIM	BEB0358-BLK1
12)	Sample	14	01401012	CARDSIM	WEA0829-01
13)	Sample	15	01501013	CARDSIM	WEA0829-02
14)	Sample	16	01601014	CARDSIM	WEA0829-03
15)	Sample	17	01701015	CARDSIM	WEA0829-04

Sequence completed Fri Feb 09 22:57:09 2024

T:\DATA1\MSD4\2024\FEB\09CD\2024 Feb 09 1604 Quality Log.LOG
T:\DATA1\MSD4\2024\FEB\09CD\2024 Feb 09 1604 Sequence Log .LOG

Anatek Labs, Inc.

QC Checklist for EPA 8270/625.1 - SOCs

Analysis Date: 2-9-24

☒	QC Parameter	Acceptance Criteria	Frequency	Notes
✓	DFTPP Tune	See SOP/Method	Every 12 hours	
✓	Sys Check	DDT breakdown <20%	Every 12 hours	
NA	System Performance	Anthracene & phenanthrene baseline separated	Each analysis batch	
NA	System Performance	Benzo[a]anthracene & chrysene valley >75%	Each analysis batch	
NA	System Performance	Benzo(b/k)fluoranthenes - valley >50% of average of both peaks	Each analysis batch	
✓	System Performance	Peak tailing factors for benzidine & PCP <2	Each analysis batch	
✓	Initial Calibration	90% of compounds RRF RSD<20% 8270: True value within 30%		
✓	RF	See table on back of this checklist		Include CCRF report in packet
✓	Internal Standard	±30% of CCV and ±50% of ICAL average	All samples	
✓	Surrogate Recovery	Per control chart	All samples	
✓	ICV/QCS	±30%, 50% at MRL	Each ICAL	
✓	Blanks	No interferences	Each extraction batch	
✓	CCV - 8270	80-120% - 80% of analytes pass	Each analysis batch w/o an ICAL	ICAL
✓	CCV - 625	80-120% - all reported analytes must pass	Each analysis batch w/o an ICAL	/
	MS/MSD or LFB/LFB Dup	Per control chart	Every 20 samples	

✓	Bench Sheet Present	Standards/reagents noted	
✓	Cal Prep Form Present	Standards/reagents noted	
✓	Dilutions Noted?		

Comments:

Analyst: [signature] Checklist Completed Date: 2-12-24

Reviewed By: _____ *Date:* _____

Guidance Response Factors – EPA Method 8270E – Table 4			
2,3,4,6-Tetrachlorophenol	0.01	bis(2-Ethylhexyl)phthalate	0.01
2,4,5-Trichlorophenol	0.2	Butyl benzyl phthalate	0.01
2,4,6-Trichlorophenol	0.2	Carbazole	0.01
2,4-Dichlorophenol	0.2	Chrysene	0.7
2,4-Dimethylphenol	0.2	Dibenz[a,h]anthracene	0.4
2,4-Dinitrophenol	0.01	Dibenzofuran	0.8
2,4-Dinitrotoluene	0.2	Diethyl phthalate	0.01
2,6-Dinitrotoluene	0.2	Dimethyl phthalate	0.01
2-Chloronaphthalene	0.8	Di-n-butyl phthalate	0.01
2-Chlorophenol	0.8	Di-n-octyl phthalate	0.01
3,3'-Dichlorobenzidine	0.01	Fluoranthene	0.6
4,6-Dinitro-2-methylphenol	0.01	Fluorene	0.9
4-Bromophenyl-phenylether	0.1	Hexachlorobenzene	0.1
4-Chloro-3-methylphenol	0.2	Hexachlorobutadiene	0.01
4-Chloroaniline	0.01	Hexachlorocyclopentadiene	0.05
4-Chlorophenyl phenyl ether	0.4	Hexachloroethane	0.3
Acenaphthene	0.9	Indeno[1,2,3-cd]pyrene	0.5
Acenaphthylene	0.9	Isophorone	0.4
Aniline	0.7	Naphthalene	0.7
Benzo[a]anthracene	0.8	Nitrobenzene	0.2
Benzo[a]pyrene	0.7	n-Nitroso-di-n-propylamine	0.5
Benzo[b]fluoranthene	0.7	n-Nitrosodiphenylamine	0.01
Benzo[ghi]perylene	0.5	Pentachlorophenol	0.05
Benzo[k]fluoranthene	0.7	Phenanthrene	0.7
bis(2-Chloroethoxy)methane	0.3	Phenol	0.8
bis(2-Chloroethyl)ether	0.7	Pyrene	0.6
bis(2-chloroisopropyl)ether	0.01		

From Method 8270E, 11.3.4.2. *Table 4 contains minimum RFs that may be used as guidance in determining if the system is behaving properly and as a check to see if calibration standards are prepared correctly. Because the minimum RFs in Table 4 were determined using specific ions and instrument conditions that may vary, it is neither expected nor required that all analytes meet these minimum RFs. The information is provided as guidance only.*

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

1,4-Dioxane Cal. Standard Prep. Form **Method: EPA 625.1/8270D**

IS/Surrogate Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
CLP B/N Surrogate	2303399	11/24	1000
CLP Internal Standard	2302846	9/24	2000

Target Compound Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
Chlorpyrifos	2302538	5/26	1000
Metolachlor	2302539	12/27	1000
Atrazine	2302537	10/27	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	1000
2.5	100	25	1000
1.0	100	10	1000
0.5	100	5	1000
0.1	100	1	1000
0.05	100	0.5	1000

Calibration made from target compound standards in the table. 25 uL of surrogate and 10 uL of IS stock added to each standard point. Dilutions were made in $MeCl_2$ (2301678).

Analyst Initials: MAH Date of Preparation: 8/8/23

Response Factor Report MSD4

Method Path : T:\Data1\MSD4\METHODS\2024\
Method File : Cardo-0209.M
Title : EPA 8270D - GC MSD4
Last Update : Mon Feb 12 09:49:25 2024
Response Via : Initial Calibration

Calibration Files
0.05=00801008.D 10 =00201002.D 5 =00301003.D 2.5 =00401004.D 1 =00501005.D 0.5 =00

		Compound	0.05	10	5	2.5	1	0.5	0.1	Avg	%RSD
1)	I	Dichlorobenzene-d5	----------ISTD----------								
2)	S	2-Fluorobiphenyl	1.785	1.985	1.897	1.913	1.994	1.955	1.614	1.878	7.22
3)	I	Acenaphthene-d10	----------ISTD----------								
4)		Atrazine	0.294	0.377	0.379	0.310	0.331	0.284	0.274	0.321	13.37
5)		Metolachlor	0.810	1.133	1.077	0.867	0.906	0.782	0.759	0.905	16.21
6)		Chlorpyrifos	0.181	0.226	0.224	0.180	0.197	0.162	0.157	0.190	14.55
7)	I	Chrysene-d12	----------ISTD----------								
8)	S	Terphenyl-d14	0.842	0.862	0.889	0.881	0.825	0.874	0.845	0.860	2.72

(#) = Out of Range

Cardo-0209.M Mon Feb 12 09:49:40 2024

PREPARATION BENCH SHEET
Organics

BEB0358

Matrix: Water **Prepared using: SVOC - SVOC Water**

Analyses	Spiking Solution(s)	Surrogate Solution(s)
SVOC 625 MISC	2400673 Cardno Spk 100	2303399 CLP B/N 1000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BEB0358-BLK1	Blank			1/29/24 0:29 MAH	1000	1			
QC	BEB0358-BS1	LCS			1/29/24 0:29 MAH	1000	1	50		
QC	BEB0358-BSD1	LCS Dup			1/29/24 0:29 MAH	1000	1	50		
SVOC 625 MISC	WEA0829-01	WW-3	02/06/2024	01/29/2024	1/29/24 0:29 MAH	1000	1			
SVOC 625 MISC	WEA0829-03	E-1	02/06/2024	01/29/2024	1/29/24 0:29 MAH	1000	1			
SVOC 625 MISC	WEA0829-04	E-1 Dup	02/06/2024	01/29/2024	1/29/24 0:29 MAH	1000	1			
SVOC 625 MISC	WEA0829-05	E-1 MS/MSD	02/06/2024	01/29/2024	1/29/24 0:29 MAH	1000	1			

Reagents

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2300314	H2SO4	62089
2301808	Diazomethane	N/A
2400200	CLP I.S. Spike 2000	061422

Batch Comments:
Acidic start/stop time: 3PM- 8AM
Basic start/stop tiime: 8AM-3PM
Instrument: 7890/5975 GCMS
Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
TurboVap: 01
Balance: 04

MM 2-9-24

Analyst: Date Run Date: Date

Internal Standard ICal Average Responses	CARDNO-020923 (method)

	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
0.05	15354796.81		18923558.5		17138405.09	
10	19107655.35		24647222.63		21539274.78	
5	16775866.86		22150165.94		18679150.2	
2.5	10376129.86		13782478		12228701.93	
1	18615788.34		24556032.5		23680116.91	
0.5	10944573.33		14864158.25		12949911.18	
0.1	18362166.29		20270741.83		19040623.32	
Average	15648140	#DIV/0!	19884908	#DIV/0!	17893740	#DIV/0!
50%	7824070	#DIV/0!	9942454	#DIV/0!	8946870	#DIV/0!
150%	23472209	#DIV/0!	29827362	#DIV/0!	26840611	#DIV/0!

Analyst: MAH

DFTPP

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00101001.D
Acq On : 9 Feb 2024 4:09 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : T:\Data1\MSD4\METHODS\2024\BNA-0206.M
Title : EPA 8270D / EPA 625.1 - MSD4
Last Update : Mon Feb 05 15:14:30 2024

Spectrum Information: Scan 1833

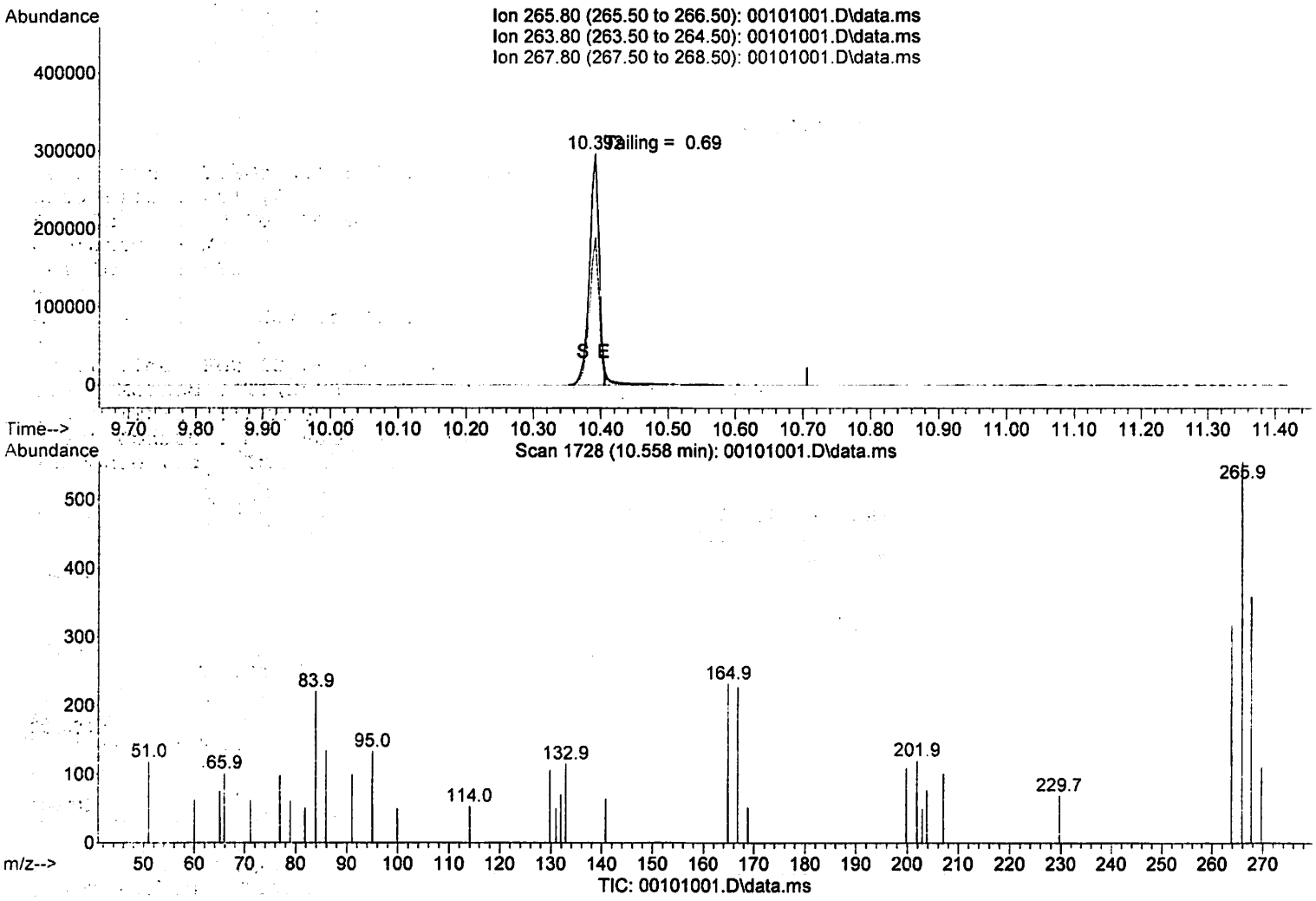
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.7	45936	PASS
68	69	0.00	2	1.4	734	PASS
70	69	0.00	2	0.6	312	PASS
127	198	10	80	53.1	74488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	140352	PASS
199	198	5	9	7.3	10195	PASS
275	198	10	60	24.0	33640	PASS
365	198	1	100	2.3	3274	PASS
441	443	0.01	150	72.1	12998	PASS
442	198	30	200	64.8	90960	PASS
443	442	15	24	19.8	18024	PASS

BNA-0206.M Mon Feb 12 09:23:20 2024

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00101001.D
Acq On : 9 Feb 2024 4:09 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 12 09:24:18 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\BNA-0206.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Mon Feb 05 15:14:30 2024
Response via : Initial Calibration



(68) Pentachlorophenol

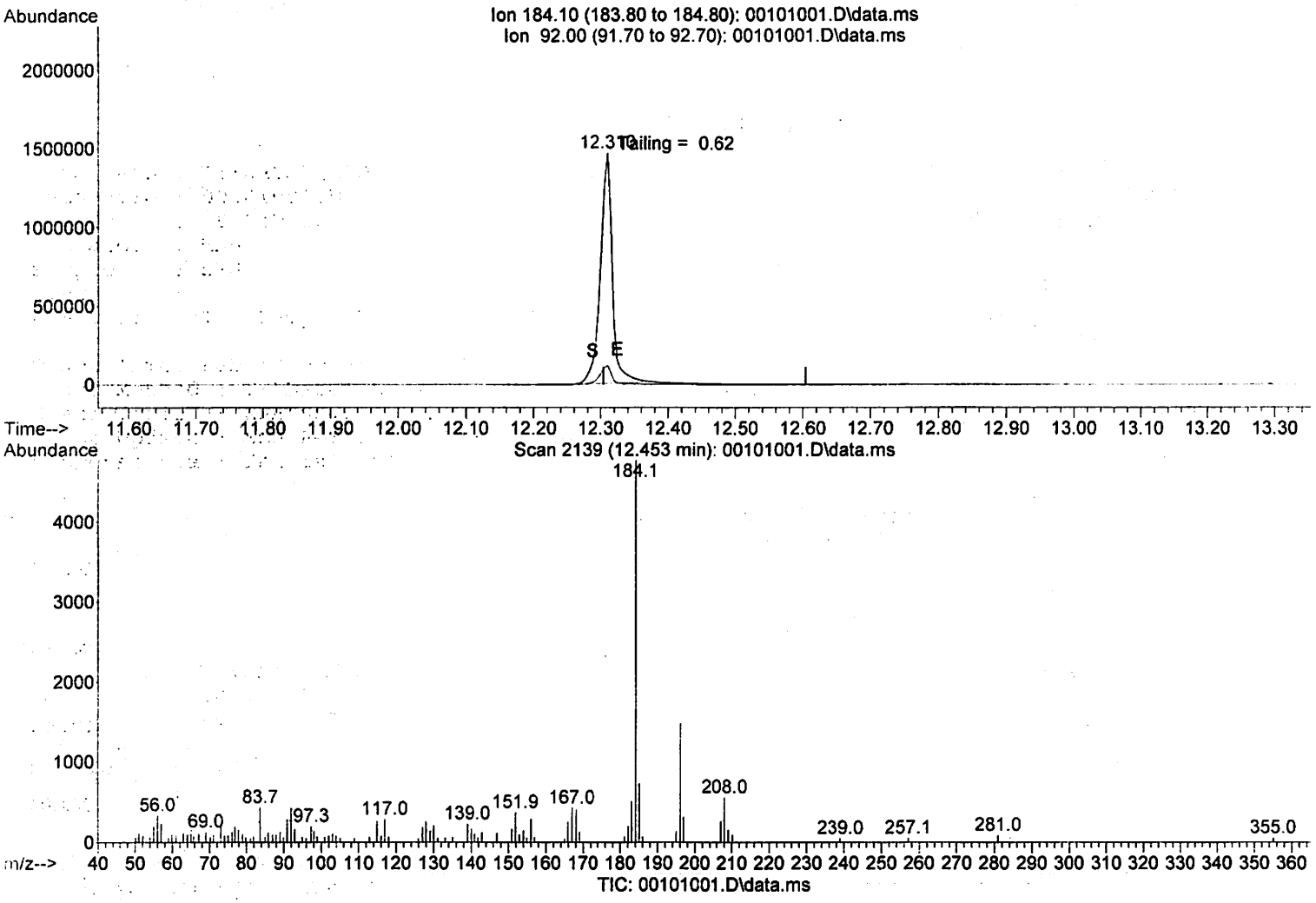
10.556min (-10.556) 0.00 ug/mL

response 0

Ion	Exp%	Act%
265.80	100.00	0.00
263.80	63.00	0.00#
267.80	64.20	0.00#
0.00	0.00	0.00

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00101001.D
Acq On : 9 Feb 2024 4:09 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 12 09:24:18 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\BNA-0206.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Mon Feb 05 15:14:30 2024
Response via : Initial Calibration



(74) Benzidine

12.454min (-12.454) 0.00 ug/mL

response 0

Ion	Exp%	Act%
184.10	100.00	0.00
92.00	9.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Area Percent Report

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00101001.D
Acq On : 9 Feb 2024 4:09 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method : T:\Data1\MSD4\METHODS\2024\BNA-0206.M
Title : EPA 8270D / EPA 625.1 - MSD4

Signal : TIC: 00101001.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total	
1	12.524	2151	2154	2157	M3	10362	96758	0.28%	0.267%	DDE
2	12.933	2239	2243	2246	M	197784	2091486	6.15%	5.774%	DDD
3	13.291	2310	2321	2327	M	3162324	34033091	100.00%	93.959%	%DDT Breakdown

Sum of corrected areas: 36221335

BNA-0206.M Mon Feb 12 09:27:29 2024

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00201002.D
Acq On : 9 Feb 2024 4:37 pm
Operator : MAH
Sample : CARDNO 10 PPM
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 12 10:39:16 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	5.235	150	19107655	20.00	ug/mL	0.00
3) Acenaphthene-d10	8.825	164	24647223	20.00	ug/mL	# 0.00
7) Chrysene-d12	13.813	240	21539275	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	8.049	172	47410635	26.43	ug/mL	0.00
8) Terphenyl-d14	12.595	244	23206771	25.07	ug/mL	0.00
Spiked Amount 25.000			Recovery =	100.28%		
Target Compounds						Qvalue
4) Atrazine	10.372	200	4652064	9.88	ug/mL	96
5) Metolachlor	11.503	162	13958592	9.90	ug/mL	96
6) Chlorpyrifos	11.521	197	2789767	9.90	ug/mL	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00301003.D
Acq On : 9 Feb 2024 5:05 pm
Operator : MAH
Sample : CARDNO 5 PPM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 10:39:55 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	5.234	150	16775867	20.00	ug/mL	0.00
3) Acenaphthene-d10	8.824	164	22150166	20.00	ug/mL	# 0.00
7) Chrysene-d12	13.811	240	18679150	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	8.047	172	39780894	25.26	ug/mL	0.00
8) Terphenyl-d14	12.595	244	20762854	25.86	ug/mL	0.00
Spiked Amount 25.000			Recovery =	103.44%		
Target Compounds						Qvalue
4) Atrazine	10.368	200	2098443	5.36	ug/mL	97
5) Metolachlor	11.499	162	5966166	5.31	ug/mL	93
6) Chlorpyrifos	11.520	197	1239662	5.35	ug/mL	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00401004.D
Acq On : 9 Feb 2024 5:32 pm
Operator : MAH
Sample : CARDNO 2.5 PPM
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 10:40:48 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	5.233	150	10376130	20.00	ug/mL		0.00
3) Acenaphthene-d10	8.823	164	13782478	20.00	ug/mL	#	0.00
7) Chrysene-d12	13.809	240	12228702	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	8.047	172	24809728	25.47	ug/mL		0.00
8) Terphenyl-d14	12.595	244	13460457	25.61	ug/mL		0.00
Spiked Amount 25.000			Recovery =	102.44%			
Target Compounds							Qvalue
4) Atrazine	10.364	200	534642	2.32	ug/mL		96
5) Metolachlor	11.498	162	1493211	2.33	ug/mL		98
6) Chlorpyrifos	11.520	197	309819	2.30	ug/mL		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00501005.D
Acq On : 9 Feb 2024 6:00 pm
Operator : MAH
Sample : CARDNO 1 PPM
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 10:41:20 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	5.235	150	18615788	20.00	ug/mL	0.00
3) Acenaphthene-d10	8.825	164	24556033	20.00	ug/mL	# 0.00
7) Chrysene-d12	13.814	240	23680117	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	8.050	172	46391096	26.55	ug/mL	0.00
8) Terphenyl-d14	12.596	244	24405393	23.98	ug/mL	0.00
Spiked Amount 25.000			Recovery =	95.92%		
Target Compounds						Qvalue
4) Atrazine	10.365	200	406244	1.01	ug/mL	96
5) Metolachlor	11.499	162	1112861	1.01	ug/mL	95
6) Chlorpyrifos	11.520	197	242090	1.04	ug/mL	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00601006.D
Acq On : 9 Feb 2024 6:27 pm
Operator : MAH
Sample : CARDNO 0.5 PPM
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 10:41:58 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	5.231	150	10944573	20.00	ug/mL	0.00
3) Acenaphthene-d10	8.823	164	14864158	20.00	ug/mL	# 0.00
7) Chrysene-d12	13.809	240	12949911	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	8.046	172	26741210	26.03	ug/mL	0.00
8) Terphenyl-d14	12.595	244	14141504	25.41	ug/mL	0.00
Spiked Amount 25.000			Recovery =	101.64%		
Target Compounds						Qvalue
4) Atrazine	10.364	200	105478	0.44	ug/mL	96
5) Metolachlor	11.497	162	290629	0.45	ug/mL	98
6) Chlorpyrifos	11.520	197	60276	0.43	ug/mL	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00701007.D
Acq On : 9 Feb 2024 6:54 pm
Operator : MAH
Sample : CARDNO 0.1 PPM
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 10:43:03 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	5.234	150	18362166	20.00	ug/mL		0.00
3) Acenaphthene-d10	8.824	164	20270742	20.00	ug/mL	#	0.00
7) Chrysene-d12	13.812	240	19040623	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	8.047	172	37056004	21.50	ug/mL		0.00
8) Terphenyl-d14	12.595	244	20116231	24.58	ug/mL		0.00
Spiked Amount 25.000			Recovery =	98.32%			
Target Compounds							Qvalue
4) Atrazine	10.363	200	26558	0.08	ug/mL		95
5) Metolachlor	11.497	162	76054	0.09	ug/mL		97
6) Chlorpyrifos	11.520	197	15898	0.08	ug/mL	#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 00801008.D
Acq On : 9 Feb 2024 7:22 pm
Operator : MAH
Sample : CARDNO 0.05 PPM
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 10:44:02 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	5.235	150	15354797	20.00	ug/mL		0.00
3) Acenaphthene-d10	8.824	164	18923559	20.00	ug/mL	#	0.00
7) Chrysene-d12	13.812	240	17138405	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	8.047	172	34258743	23.77	ug/mL		0.00
8) Terphenyl-d14	12.595	244	18030213	24.48	ug/mL		0.00
Spiked Amount 25.000			Recovery = 97.92%				
Target Compounds							Qvalue
4) Atrazine	10.365	200	13894	0.05	ug/mL	#	79
5) Metolachlor	11.499	162	38303	0.05	ug/mL		98
6) Chlorpyrifos	11.514	197	8366m	0.05	ug/mL		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 01101009.D
Acq On : 9 Feb 2024 7:50 pm
Operator : MAH
Sample : BEB0358-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 12 09:50:19 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	5.236	150	19755717	20.00	ug/mL	0.00
3) Acenaphthene-d10	8.826	164	27447604	20.00	ug/mL	# 0.00
7) Chrysene-d12	13.815	240	25915198	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	8.049	172	36861614	19.88	ug/mL	0.00
8) Terphenyl-d14	12.597	244	29341773	26.35	ug/mL	0.00
Spiked Amount 25.000			Recovery =	105.40%		
Target Compounds						Qvalue
4) Atrazine	10.368	200	2239563	4.67	ug/mL	96
5) Metolachlor	11.499	162	6099448	4.48	ug/mL	95
6) Chlorpyrifos	11.520	197	1268380	4.50	ug/mL	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 01201010.D
Acq On : 9 Feb 2024 8:17 pm
Operator : MAH
Sample : BEB0358-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 12 09:51:32 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	5.235	150	18752964	20.00	ug/mL	0.00
3) Acenaphthene-d10	8.825	164	26029629	20.00	ug/mL	# 0.00
7) Chrysene-d12	13.814	240	24638480	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	8.046	172	27256894	15.48	ug/mL	0.00
8) Terphenyl-d14	12.596	244	26715119	25.23	ug/mL	0.00
Spiked Amount 25.000			Recovery =	100.92%		
Target Compounds						Qvalue
4) Atrazine	10.368	200	2035676	4.49	ug/mL	97
5) Metolachlor	11.499	162	5496903	4.28	ug/mL	95
6) Chlorpyrifos	11.520	197	1098484	4.14	ug/mL	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 01301011.D
Acq On : 9 Feb 2024 8:45 pm
Operator : MAH
Sample : BEB0358-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 12 09:52:30 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	5.236	150	16441017	20.00	ug/mL		0.00
3) Acenaphthene-d10	8.825	164	23192786	20.00	ug/mL	#	0.00
7) Chrysene-d12	13.813	240	19908783	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	8.047	172	28056500	18.18	ug/mL		0.00
8) Terphenyl-d14	12.595	244	23607148	27.59	ug/mL		0.00
Spiked Amount 25.000			Recovery =	110.36%			
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 01401012.D
Acq On : 9 Feb 2024 9:13 pm
Operator : MAH
Sample : WEA0829-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 12 09:53:17 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	5.236	150	22362900	20.00	ug/mL		0.00
3) Acenaphthene-d10	8.826	164	30748113	20.00	ug/mL	#	0.00
7) Chrysene-d12	13.819	240	31514822	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	8.049	172	45317734	21.59	ug/mL		0.00
8) Terphenyl-d14	12.598	244	38607774	28.51	ug/mL		0.00
Spiked Amount 25.000			Recovery = 114.04%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 01501013.D
Acq On : 9 Feb 2024 9:41 pm
Operator : MAH
Sample : WEA0829-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 12 09:57:27 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	5.236	150	26666591	20.00	ug/mL	0.00
3) Acenaphthene-d10	8.826	164	37338972	20.00	ug/mL	# 0.00
7) Chrysene-d12	13.820	240	36836942	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	8.048	172	50903324	20.33	ug/mL	0.00
8) Terphenyl-d14	12.604	244	46565683m	29.41	ug/mL	0.00
Spiked Amount 25.000			Recovery =	117.64%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 01601014.D
Acq On : 9 Feb 2024 10:08 pm
Operator : MAH
Sample : WEA0829-04
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 10:06:32 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	5.236	150	18967897	20.00	ug/mL		0.00
3) Acenaphthene-d10	8.825	164	26695884	20.00	ug/mL	#	0.00
7) Chrysene-d12	13.817	240	27469562	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	8.047	172	34845171	19.57	ug/mL		0.00
8) Terphenyl-d14	12.597	244	30634201	25.95	ug/mL		0.00
Spiked Amount 25.000			Recovery =	103.80%			
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\09CD\
Data File : 01701015.D
Acq On : 9 Feb 2024 10:36 pm
Operator : MAH
Sample : WEA0829-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 10:08:34 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0209.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Mon Feb 12 09:49:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	5.235	150	21248353	20.00	ug/mL		0.00
3) Acenaphthene-d10	8.825	164	29856085	20.00	ug/mL	#	0.00
7) Chrysene-d12	13.817	240	30108596	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	8.048	172	38043872	19.07	ug/mL		0.00
8) Terphenyl-d14	12.597	244	32138745	24.84	ug/mL		0.00
Spiked Amount 25.000			Recovery =	99.36%			
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Starting sequence Wed Feb 21 16:25:42 2024

Instrument Name: MSD4
Sequence File: T:\Data1\MSD4\SEQUENCES\2023\CARDNO.s
Comment: CARDNO 625
Operator: MAH
Data Path: T:\DATA1\MSD4\2024\FEB\21CD\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	00101001	SVOCT1	SYS
2)	Sample	1	00102002	SVOCT1	SYS
3)	Sample	1	00103003	SVOCT1	SYS
4)	Sample	2	00201004	CARDSIM	CARDNO 10 PPM
5)	Sample	3	00301005	CARDSIM	CARDNO 5 PPM
6)	Sample	4	00401006	CARDSIM	CARDNO 2.5 PPM
7)	Sample	5	00501007	CARDSIM	CARDNO 1 PPM
8)	Sample	6	00601008	CARDSIM	CARDNO 0.5 PPM
9)	Sample	7	00701009	CARDSIM	CARDNO 0.1 PPM
10)	Sample	8	00801010	CARDSIM	CARDNO 0.05 PPM
11)	Sample	11	01101011	CARDSIM	WEA0829-01
12)	Sample	12	01201012	CARDSIM	WEA0829-03
13)	Sample	13	01301013	CARDSIM	WEA0829-04
14)	Sample	14	01401014	CARDSIM	WEA0829-05

Sequence completed Wed Feb 21 22:43:12 2024

T:\DATA1\MSD4\2024\FEB\21CD\2024 Feb 21 1625 Quality Log.LOG
T:\DATA1\MSD4\2024\FEB\21CD\2024 Feb 21 1625 Sequence Log .LOG

NOTE: samples never to screen for parmethrins which was not done on Feb 9 analysis

2/14/24

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

1,4-Dioxane Cal. Standard Prep. Form **Method: EPA 625.1/8270D**

IS/Surrogate Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
CLP B/N Surrogate	2303399	11/24	1000
CLP Internal Standard	2400200	1/25	2000

Target Compound Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
Chlorpyrifos	2302538	5/26	1000
Metolachlor	2302539	12/27	1000
Atrazine	2302537	10/27	1000
Permethrins	2101121	7/25	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	1000
2.5	100	25	1000
1.0	100	10	1000
0.5	100	5	1000
0.1	100	1	1000
0.05	100	0.5	1000

Calibration made from target compound standards in the table. 25 uL of surrogate and 10 uL of IS stock added to each standard point. Dilutions were made in $MeCl_2$ (2301678).

Analyst Initials: MAH Date of Preparation: 2/21/24

Response Factor Report MSD4

Method Path : T:\Data1\MSD4\METHODS\2024\
Method File : Cardo-0222.M
Title : EPA 8270D - GC MSD4
Last Update : Thu Feb 22 09:19:20 2024
Response Via : Initial Calibration

Calibration Files
0.05=00801010.D 10 =00201004.D 5 =00301005.D 2.5 =00401006.D 1 =00501007.D 0.5 =00

		Compound	0.05	10	5	2.5	1	0.5	0.1	Avg	%RSD
1)	I	Acenaphthene-d10	----------ISTD----------								
2)		Atrazine	0.323	0.410	0.398	0.354	0.343	0.314	0.299	0.349	12.00
3)		Metolachlor	0.871	1.062	1.077	0.979	0.948	0.869	0.806	0.944	10.84
4)		Chlorpyrifos	0.195	0.214	0.226	0.206	0.201	0.189	0.182	0.202	7.44
5)	I	Chrysene-d12	----------ISTD----------								
6)		Permerthins	4.243	5.910	5.654	5.234	4.482	4.071	3.774	4.767	17.42

(#) = Out of Range

Cardo-0222.M Thu Feb 22 09:19:29 2024

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\21CD\
Data File : 01101011.D
Acq On : 21 Feb 2024 9:00 pm
Operator : MAH
Sample : WEA0829-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 22 09:21:28 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0222.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 22 09:19:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.761	164	27188562	20.00	ug/mL	# 0.00
5) Chrysene-d12	13.543	240	2778918	20.00	ug/mL	# 0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\21CD\
Data File : 01201012.D
Acq On : 21 Feb 2024 9:28 pm
Operator : MAH
Sample : WEA0829-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 22 09:22:06 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0222.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 22 09:19:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.762	164	30749698	20.00	ug/mL	# 0.00
5) Chrysene-d12	13.544	240	3111720	20.00	ug/mL	# 0.00

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\21CD\
Data File : 01301013.D
Acq On : 21 Feb 2024 9:55 pm
Operator : MAH
Sample : WEA0829-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 22 09:22:57 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0222.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 22 09:19:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.762	164	33016297	20.00	ug/mL	# 0.00
5) Chrysene-d12	13.546	240	3139739	20.00	ug/mL	# 0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2024\FEB\21CD\
Data File : 01401014.D
Acq On : 21 Feb 2024 10:22 pm
Operator : MAH
Sample : WEA0829-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 22 09:24:23 2024
Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0222.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 22 09:19:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.762	164	32626335	20.00	ug/mL	# 0.00
5) Chrysene-d12	13.544	240	2826878	20.00	ug/mL	# 0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

PREPARATION BENCH SHEET
Metals

BEA0967

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BEA0967-BLK1	01/31/24 10:06 - JLG	50	50				
BEA0967-BS1	01/31/24 10:06 - JLG	50	50	2301403		250	
BEA0967-MS1	01/31/24 10:06 - JLG	50	50	2301403	WEA0829-13	250	
BEA0967-MS2	01/31/24 10:06 - JLG	50	50	2301403	WEA0829-01	250	
BEA0967-MSD1	01/31/24 10:06 - JLG	50	50	2301403	WEA0829-13	250	
BEA0967-MSD2	01/31/24 10:06 - JLG	50	50	2301403	WEA0829-01	250	
WEA0829-01 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-02 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-03 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-04 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-05 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-06 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-07 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-08 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-09 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-10 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			

Batch Prepared By _____ Date _____ Analytical Run Date _____

C:\Promium\Element\Print\bch_Metals_ls.rpt

PREPARATION BENCH SHEET
Metals

BEA0967

(Continued)

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WEA0829-11 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-12 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			
WEA0829-13 Analytes: Arsenic	01/31/24 10:06 - JLG	50	50	Client: Stantec-GS			

Support Equipment: W PT-04 W PT-33 W PT-21, W PT-27, BLK1B

Reagent ID	Description	LotNum
2003793	Metals UHP Helium	314SPO0620A
2303108	P. 1:1 HCl-metals	59072
2303320	Nitric Acid	63076
2303351	P. Metals Digestion Vials	102623
2303869	C. Internal Standard Mix	-
2400096	C. 10 ppb Tune Solution	-

Batch Prepared By _____ Date _____

Analytical Run Date _____

C:\Promium\Element\Print\bch_Metals_ls.rpt

US EPA Tune Check Report

Operator Name	Metals
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq. Date-Time	2024-02-02 12:20:28
Report Comment	---
Instrument Name	7800 JP17450949

[No Gas]

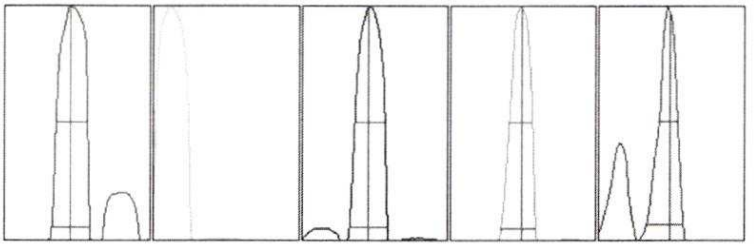
Sensitivity

Mass	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9	1242	12421.48	0.615	5.000	
24	4587	45870.47	1.474	5.000	
59	4424	44239.33	1.287	5.000	
115	4001	40006.00	1.492	5.000	
208	1480	14799.85	1.518	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1245	1252	1233	1236	1245
24	4701	4594	4550	4560	4531
59	4500	4455	4412	4348	4405
115	4105	3990	3955	3974	3979
208	1517	1474	1455	1478	1475

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Required)	W-5% (Flag)
9	1967.32	8.90	8.90 - 9.10		0.783	0.900	
24			23.90 - 24.10			0.900	
59	7457.81	58.90	58.90 - 59.10		0.781	0.900	
115	8337.46	115.00	114.90 - 115.10		0.717	0.900	
208	3482.07	208.00	207.90 - 208.10		0.751	0.900	

Integration Time [sec] = 0.1 Acquisition Time [sec] = 168.5 Y Axis = Linear

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.36 L/min	Dilution Gas	0.62 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

US EPA Tune Check Report

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	13.2 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	168	Axis Gain	1.0042	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.01		

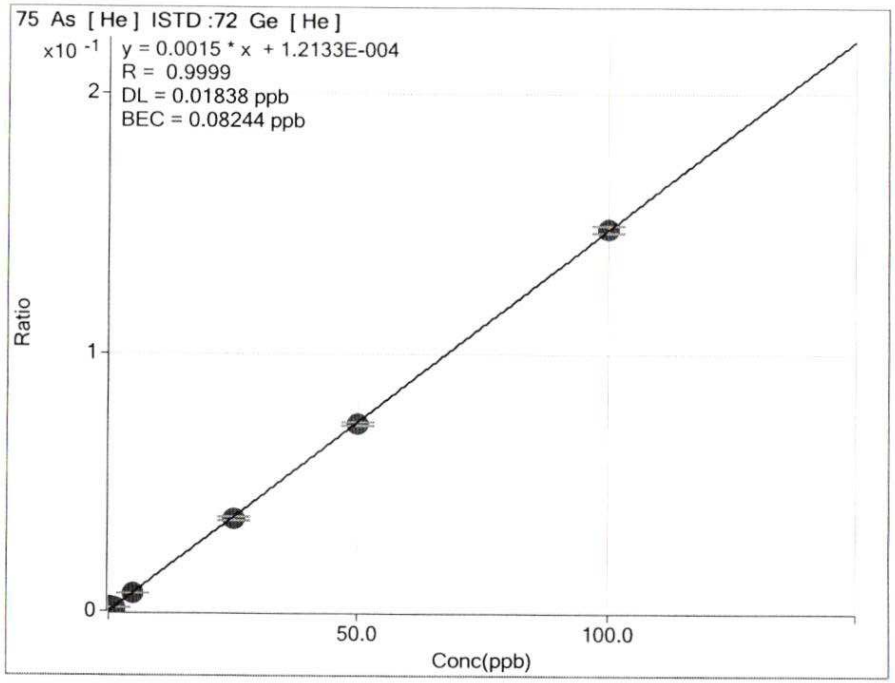
Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.2 mm		

EM

Discriminator	3.7 mV	Analog HV	2286 V	Pulse HV	1775 V


75 As [He] ISTD :72 Ge [He]
x10 -1
y = 0.0015 * x + 1.2133E-004
R = 0.9999
DL = 0.01838 ppb
BEC = 0.08244 ppb
Ratio
2
1
0
50.0
100.0
Conc(ppb)

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
1		☐	001CALB.	2024-02-02 12:44:52	CalBlk	1	Blank		1.0000	1101
2		☐	002CALB.	2024-02-02 12:47:12	CalBlk	1	Blank		1.0000	1101
3		☐	003CALB.	2024-02-02 12:49:30	CalBlk	1	Blank		1.0000	1101
4		☑	004CALS.	2024-02-02 12:51:48	CalStd	2	1 ppb cal	WIRED HIT FOR H	1.0000	1103
5		☐	005CALS.	2024-02-02 12:54:09	CalStd	3	5 ppb cal		1.0000	1104
6		☐	006CALS.	2024-02-02 12:56:27	CalStd	4	25 ppb cal		1.0000	1105
7		☐	007CALS.	2024-02-02 12:58:44	CalStd	5	50 ppb cal		1.0000	1106
8		☐	008CALS.	2024-02-02 13:01:05	CalStd	6	100 ppb cal		1.0000	1107
9		☐	009CALS.	2024-02-02 13:03:23	CalStd	2	1 ppb cal	RERUN	1.0000	1103
10		☐	010_RIN.d	2024-02-02 13:05:41	RINSE		Rinse		1.0000	4
11		☐	011_ICV.d	2024-02-02 13:08:01	ICV		ICV- 40ppb		1.0000	2101
12		☐	012_LDR.d	2024-02-02 13:10:19	LDR		Daily LDR- 500pp		1.0000	2102
13		☐	013_RIN.d	2024-02-02 13:12:37	RINSE		Rinse		1.0000	4
14		☐	014_RIN.d	2024-02-02 13:14:57	RINSE		Rinse		1.0000	4
15		☐	015_RIN.d	2024-02-02 13:17:14	RINSE		Rinse		1.0000	4
16		☐	016_RIN.d	2024-02-02 13:19:33	RINSE		Rinse		1.0000	5
17		☐	017_Blk.d	2024-02-02 13:21:53	Blank		BEA0987-BLK1		1.0000	3101
18		☐	018LICV.d	2024-02-02 13:24:12	LLICV		BEA0987-MRL1		1.0000	3102
19	✓	☐	019_LCS.d	2024-02-02 13:26:31	LCS		BEA0987-BS1		1.0000	3103
20		☐	020_ARF.d	2024-02-02 13:28:51	AllRef		WEA0829-01		1.0000	3104
21		☐	021_LFM.d	2024-02-02 13:31:10	LFM		BEA0829-MS1		1.0000	3105
22		☐	022LFMD.	2024-02-02 13:33:28	LFMDup		BEA0829-MSD1		1.0000	3106
23		☐	023SMPL.	2024-02-02 13:35:49	Sample		WEA0829-02		1.0000	3107
24	✓	☐	024SMPL.	2024-02-02 13:38:07	Sample		WEA0829-03		1.0000	3108
25	✓	☐	025SMPL.	2024-02-02 13:40:26	Sample		WEA0829-04		1.0000	3109

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
26	✓		026SMPL.	2024-02-02 13:42:46	Sample		WEA0829-05		1.0000	3110
27	✓		027SMPL.	2024-02-02 13:45:05	Sample		WEA0829-06		1.0000	3111
28	✓		028SMPL.	2024-02-02 13:47:23	Sample		WEA0829-07		1.0000	3112
29	✓		029SMPL.	2024-02-02 13:49:44	Sample		WEA0829-08		1.0000	3201
30	✓		030SMPL.	2024-02-02 13:52:03	Sample		WEA0829-09		1.0000	3202
31	✓		031SMPL.	2024-02-02 13:54:21	Sample		WEA0829-10		1.0000	3203
32			032_RIN.d	2024-02-02 13:56:41	RINSE		Rinse		1.0000	4
33			033_CCV.	2024-02-02 13:58:59	CCV		CCV		1.0000	1106
34			034_CCB.	2024-02-02 14:01:17	CCB		CCB		1.0000	1101
35			035_RIN.d	2024-02-02 14:03:38	RINSE		Rinse		1.0000	5
36	✓		036SMPL.	2024-02-02 14:05:56	Sample		WEA0829-11		1.0000	3204
37	✓		037SMPL.	2024-02-02 14:08:14	Sample		WEA0829-12		1.0000	3205
38	✓		038_ARF.d	2024-02-02 14:10:35	AllRef		WEA0829-13		1.0000	3206
39	✓		039_LFM.d	2024-02-02 14:12:54	LFM		BEA0829-MS2		1.0000	3207
40	✓		040LFMD.	2024-02-02 14:15:12	LFMDup		BEA0829-MSD2		1.0000	3208
41	✓		041_Blk.d	2024-02-02 14:17:33	Blank		BEA0987-BLK1		1.0000	3209
42	✓		042_LCS.d	2024-02-02 14:19:51	LCS		BEA0987-BS1		1.0000	3210
43			043_RIN.d	2024-02-02 14:22:10	RINSE		Rinse		1.0000	4
44			044_CCV.	2024-02-02 14:24:30	CCV		CCV		1.0000	1106
45			045_CCB.	2024-02-02 14:26:48	CCB		CCB		1.0000	1101
46			046_RIN.d	2024-02-02 14:38:17	RINSE		Rinse		1.0000	5
47			047_RIN.d	2024-02-02 14:40:36	RINSE		Rinse		1.0000	4
48			048_RIN.d	2024-02-02 14:42:55	RINSE		Rinse		1.0000	5
49			049_RIN.d	2024-02-02 14:45:16	RINSE		Rinse		1.0000	5
50			050_RIN.d	2024-02-02 14:47:34	RINSE		Rinse		1.0000	5

Sample Report

Sample Name	ICV- 40ppb
File Name	011_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:08:01
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	36.122	No Gas	36.122	6	3.3	40	
75	As	39.755	He	39.755	72	1.6	40	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1322420.79	2.2	100.3	1318290.65
Sc	45	No Gas	2249926.50	1.0	100.3	2242215.16666667
Sc	45	He	1109358.19	6.0	97.4	1138713.6
Ge	72	No Gas	828140.10	1.2	99.1	835754.313333333
Ge	72	He	1058168.09	5.2	95.9	1103607.52666667
Ge	72	HEHe	563852.30	2.5	98.5	572704.786666667
Rh	103	No Gas	2270056.50	1.2	98.7	2298893.16666667
Rh	103	He	7734770.80	7.0	93.7	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0987-BLK1
File Name	017_Blk.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:21:53
Sample Type	Blank
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.361	No Gas	0.361	6	1.4	0.5	
75	As	0.062	He	0.062	72	2.3	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1241659.43	1.0	94.2	1318290.65
Sc	45	No Gas	2519416.25	4.6	112.4	2242215.16666667
Sc	45	He	1167553.53	4.2	102.5	1138713.6
Ge	72	No Gas	806008.54	1.3	96.4	835754.313333333
Ge	72	He	1067480.34	4.0	96.7	1103607.52666667
Ge	72	HEHe	564352.11	3.4	98.5	572704.786666667
Rh	103	No Gas	2108723.42	1.8	91.7	2298893.16666667
Rh	103	He	7797345.52	5.7	94.4	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0987-MRL1
File Name	018LICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:24:12
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	1.275	No Gas	1.275	6	0.7	1	
75	As	1.151	He	1.151	72	3.5	1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1292969.32	1.8	98.1	1318290.65
Sc	45	No Gas	2210513.00	1.7	98.6	2242215.16666667
Sc	45	He	1087577.46	6.3	95.5	1138713.6
Ge	72	No Gas	825223.33	1.2	98.7	835754.313333333
Ge	72	He	1042450.66	6.9	94.5	1103607.52666667
Ge	72	HEHe	549436.00	1.1	95.9	572704.786666667
Rh	103	No Gas	2246121.33	2.2	97.7	2298893.16666667
Rh	103	He	7711014.14	6.7	93.4	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0987-BS1
File Name	019_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:26:31
Sample Type	LCS
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	48.620	No Gas	48.62	6	2.8	50	
75	As	52.565	He	52.565	72	0.9	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1228406.93	1.7	93.2	1318290.65
Sc	45	No Gas	2951867.67	7.5	131.6	2242215.16666667
Sc	45	He	1251880.02	4.4	109.9	1138713.6
Ge	72	No Gas	804631.16	0.6	96.3	835754.313333333
Ge	72	He	1033250.69	5.3	93.6	1103607.52666667
Ge	72	HEHe	555156.54	2.8	96.9	572704.786666667
Rh	103	No Gas	2111749.88	1.5	91.9	2298893.16666667
Rh	103	He	7279054.15	4.3	88.1	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-01
File Name	020_ARF.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:28:51
Sample Type	AllRef
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	8.003	No Gas	8.003	6	0.8	100	
75	As	0.907	He	0.907	72	4.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1129916.77	2.6	85.7	1318290.65
Sc	45	No Gas	2369514.92	5.9	105.7	2242215.16666667
Sc	45	He	1107577.70	6.3	97.3	1138713.6
Ge	72	No Gas	767965.42	0.7	91.9	835754.313333333
Ge	72	He	980383.22	6.4	88.8	1103607.52666667
Ge	72	HEHe	510660.81	4.2	89.2	572704.786666667
Rh	103	No Gas	1918749.96	2.3	83.5	2298893.16666667
Rh	103	He	6467942.38	6.3	78.3	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0829-MS1
File Name	021_LFM.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:31:10
Sample Type	LFM
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	59.011	No Gas	59.011	6	2.8	100	
75	As	56.162	He	56.162	72	0.4	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1139545.51	1.4	86.4	1318290.65
Sc	45	No Gas	2545420.25	5.3	113.5	2242215.16666667
Sc	45	He	1156852.35	4.7	101.6	1138713.6
Ge	72	No Gas	776629.29	1.4	92.9	835754.313333333
Ge	72	He	974793.78	4.9	88.3	1103607.52666667
Ge	72	HEHe	507836.88	1.9	88.7	572704.786666667
Rh	103	No Gas	1890770.41	2.7	82.2	2298893.16666667
Rh	103	He	6482155.44	5.0	78.5	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0829-MSD1
File Name	022LFMD.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:33:28
Sample Type	LFMDup
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	56.825	No Gas	56.825	6	1.6	20	
75	As	54.106	He	54.106	72	0.1	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1180915.69	2.3	89.6	1318290.65
Sc	45	No Gas	2550918.92	6.8	113.8	2242215.16666667
Sc	45	He	1153034.36	3.7	101.3	1138713.6
Ge	72	No Gas	785309.57	0.4	94.0	835754.313333333
Ge	72	He	999827.56	4.2	90.6	1103607.52666667
Ge	72	HEHe	516658.07	1.6	90.2	572704.786666667
Rh	103	No Gas	1909286.58	1.6	83.1	2298893.16666667
Rh	103	He	6509822.38	4.3	78.8	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-02
File Name	023SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:35:49
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.425	No Gas	0.425	6	4.0	100	
75	As	0.355	He	0.355	72	1.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1259773.10	5.4	95.6	1318290.65
Sc	45	No Gas	2425116.50	2.4	108.2	2242215.16666667
Sc	45	He	1237800.85	12.7	108.7	1138713.6
Ge	72	No Gas	801685.17	6.1	95.9	835754.313333333
Ge	72	He	1087593.74	10.7	98.5	1103607.52666667
Ge	72	HEHe	568237.20	4.6	99.2	572704.786666667
Rh	103	No Gas	1996385.63	6.0	86.8	2298893.16666667
Rh	103	He	7570036.09	13.7	91.7	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-03
File Name	024SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:38:07
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Flal	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	70.994	No Gas	70.994	6	3.6	100	
75	As	1.605	He	1.605	72	1.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1032082.18	2.5	78.3	1318290.65
Sc	45	No Gas	2376569.08	1.8	106.0	2242215.16666667
Sc	45	He	921069.49	5.1	80.9	1138713.6
Ge	72	No Gas	719467.67	1.4	86.1	835754.313333333
Ge	72	He	725361.13	4.2	65.7	1103607.52666667
Ge	72	HEHe	372425.23	1.7	65.0	572704.786666667
Rh	103	No Gas	1631705.29	0.8	71.0	2298893.16666667
Rh	103	He	4268888.16	3.4	51.7	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-04
File Name	025SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:40:26
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	73.095	No Gas	73.095	6	1.6	100	
75	As	1.374	He	1.374	72	2.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1043429.70	1.8	79.2	1318290.65
Sc	45	No Gas	2548048.92	8.3	113.6	2242215.16666667
Sc	45	He	957131.32	4.8	84.1	1138713.6
Ge	72	No Gas	742514.37	1.1	88.8	835754.313333333
Ge	72	He	753942.09	3.3	68.3	1103607.52666667
Ge	72	HEHe	394662.34	2.5	68.9	572704.786666667
Rh	103	No Gas	1693485.21	2.9	73.7	2298893.16666667
Rh	103	He	4322659.97	3.5	52.3	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-05
File Name	026SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:42:46
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	54.344	No Gas	54.344	6	2.8	100	
75	As	1.249	He	1.249	72	1.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1059860.03	2.7	80.4	1318290.65
Sc	45	No Gas	2686745.08	2.0	119.8	2242215.16666667
Sc	45	He	1040147.49	3.9	91.3	1138713.6
Ge	72	No Gas	781043.85	0.8	93.5	835754.313333333
Ge	72	He	814686.02	2.9	73.8	1103607.52666667
Ge	72	HEHe	481164.50	18.0	84.0	572704.786666667
Rh	103	No Gas	1790003.04	1.5	77.9	2298893.16666667
Rh	103	He	4667386.90	3.7	56.5	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-06
File Name	027SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:45:05
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	29.713	No Gas	29.713	6	1.5	100	
75	As	30.127	He	30.127	72	1.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1111007.28	1.5	84.3	1318290.65
Sc	45	No Gas	2842244.92	6.8	126.8	2242215.16666667
Sc	45	He	1200538.36	5.1	105.4	1138713.6
Ge	72	No Gas	829546.43	0.5	99.3	835754.313333333
Ge	72	He	938045.55	4.4	85.0	1103607.52666667
Ge	72	HEHe	626799.30	9.1	109.4	572704.786666667
Rh	103	No Gas	1875236.17	0.5	81.6	2298893.16666667
Rh	103	He	5429092.70	4.5	65.7	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-07
File Name	028SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:47:23
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	1.553	No Gas	1.553	6	2.6	100	
75	As	1.309	He	1.309	72	1.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1278326.22	2.9	97.0	1318290.65
Sc	45	No Gas	3077420.42	6.3	137.2	2242215.16666667
Sc	45	He	1307100.75	6.0	114.8	1138713.6
Ge	72	No Gas	927237.71	1.6	110.9	835754.313333333
Ge	72	He	1163108.67	4.1	105.4	1103607.52666667
Ge	72	HEHe	614741.14	4.0	107.3	572704.786666667
Rh	103	No Gas	2219623.83	0.2	96.6	2298893.16666667
Rh	103	He	7256494.02	5.6	87.9	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-08
File Name	029SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:49:44
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	1.142	No Gas	1.142	6	1.8	100	
75	As	1.644	He	1.644	72	2.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1290332.25	1.5	97.9	1318290.65
Sc	45	No Gas	2912154.58	4.1	129.9	2242215.16666667
Sc	45	He	1305519.36	5.5	114.6	1138713.6
Ge	72	No Gas	911648.92	0.7	109.1	835754.313333333
Ge	72	He	1150925.99	4.7	104.3	1103607.52666667
Ge	72	HEHe	603029.52	2.2	105.3	572704.786666667
Rh	103	No Gas	2226024.92	0.4	96.8	2298893.16666667
Rh	103	He	7222934.71	5.2	87.5	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-09
File Name	030SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:52:03
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	5.313	No Gas	5.313	6	1.3	100	
75	As	1.522	He	1.522	72	2.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1208738.63	0.8	91.7	1318290.65
Sc	45	No Gas	2869779.50	7.1	128.0	2242215.16666667
Sc	45	He	1232759.54	3.6	108.3	1138713.6
Ge	72	No Gas	859598.44	1.1	102.9	835754.313333333
Ge	72	He	1060243.05	5.0	96.1	1103607.52666667
Ge	72	HEHe	555747.81	3.7	97.0	572704.786666667
Rh	103	No Gas	2070093.04	0.8	90.0	2298893.16666667
Rh	103	He	6696894.18	4.5	81.1	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-10
File Name	031SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:54:21
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.470	No Gas	0.47	6	1.9	100	
75	As	0.282	He	0.282	72	2.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1306231.50	0.3	99.1	1318290.65
Sc	45	No Gas	2977064.75	4.4	132.8	2242215.16666667
Sc	45	He	1269008.14	3.7	111.4	1138713.6
Ge	72	No Gas	910000.21	1.1	108.9	835754.313333333
Ge	72	He	1128761.13	6.9	102.3	1103607.52666667
Ge	72	HEHe	583958.86	3.7	102.0	572704.786666667
Rh	103	No Gas	2276297.00	1.9	99.0	2298893.16666667
Rh	103	He	7452279.29	6.0	90.2	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-11
File Name	036SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:05:56
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	1.566	No Gas	1.566	6	0.7	100	
75	As	4.840	He	4.84	72	1.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1184273.79	0.9	89.8	1318290.65
Sc	45	No Gas	2859971.92	6.1	127.6	2242215.16666667
Sc	45	He	1201913.01	5.9	105.6	1138713.6
Ge	72	No Gas	855475.94	1.2	102.4	835754.313333333
Ge	72	He	1044340.24	4.3	94.6	1103607.52666667
Ge	72	HEHe	561788.74	1.2	98.1	572704.786666667
Rh	103	No Gas	2104455.96	2.7	91.5	2298893.16666667
Rh	103	He	6915257.92	3.5	83.7	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-12
File Name	037SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:08:14
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.270	No Gas	0.27	6	1.4	100	
75	As	0.193	He	0.193	72	2.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1290458.11	2.3	97.9	1318290.65
Sc	45	No Gas	2899618.33	5.6	129.3	2242215.16666667
Sc	45	He	1209705.19	5.1	106.2	1138713.6
Ge	72	No Gas	904940.10	0.7	108.3	835754.313333333
Ge	72	He	1110844.57	4.4	100.7	1103607.52666667
Ge	72	HEHe	589614.77	4.4	103.0	572704.786666667
Rh	103	No Gas	2270654.75	1.6	98.8	2298893.16666667
Rh	103	He	7368385.40	6.2	89.2	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	WEA0829-13
File Name	038_ARF.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:10:35
Sample Type	AllRef
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.186	No Gas	0.186	6	1.3	100	
75	As	0.275	He	0.275	72	0.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1314998.41	2.4	99.8	1318290.65
Sc	45	No Gas	2828444.42	4.3	126.1	2242215.16666667
Sc	45	He	1197691.30	2.7	105.2	1138713.6
Ge	72	No Gas	923218.44	0.4	110.5	835754.313333333
Ge	72	He	1113276.49	3.2	100.9	1103607.52666667
Ge	72	HEHe	588142.89	2.7	102.7	572704.786666667
Rh	103	No Gas	2357093.17	1.3	102.5	2298893.16666667
Rh	103	He	7620424.14	2.7	92.3	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0829-MS2
File Name	039_LFM.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:12:54
Sample Type	LFM
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	46.123	No Gas	46.123	6	2.6	100	
75	As	47.940	He	47.94	72	1.0	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1286770.00	3.1	97.6	1318290.65
Sc	45	No Gas	2857784.08	7.2	127.5	2242215.16666667
Sc	45	He	1193057.73	4.4	104.8	1138713.6
Ge	72	No Gas	921302.25	2.9	110.2	835754.313333333
Ge	72	He	1125184.96	5.5	102.0	1103607.52666667
Ge	72	HEHe	570184.62	2.4	99.6	572704.786666667
Rh	103	No Gas	2354611.25	1.2	102.4	2298893.16666667
Rh	103	He	7766589.13	7.0	94.0	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0829-MSD2
File Name	040LFMD.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:15:12
Sample Type	LFMDup
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	47.693	No Gas	47.693	6	2.9	20	
75	As	50.960	He	50.96	72	0.7	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1300594.18	1.4	98.7	1318290.65
Sc	45	No Gas	2824143.67	4.5	126.0	2242215.16666667
Sc	45	He	1223814.26	2.3	107.5	1138713.6
Ge	72	No Gas	898738.17	0.7	107.5	835754.313333333
Ge	72	He	1109181.73	4.1	100.5	1103607.52666667
Ge	72	HEHe	574830.81	6.0	100.4	572704.786666667
Rh	103	No Gas	2296197.00	0.9	99.9	2298893.16666667
Rh	103	He	7629236.09	3.7	92.4	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0987-BLK1
File Name	041_Blk.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:17:33
Sample Type	Blank
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.001	No Gas	0.001	6	1.8	0.5	
75	As	0.134	He	0.134	72	1.7	0.06	>DL*2.2

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1351176.04	2.2	102.5	1318290.65
Sc	45	No Gas	2669592.25	0.9	119.1	2242215.16666667
Sc	45	He	1219014.67	5.9	107.1	1138713.6
Ge	72	No Gas	910384.56	0.4	108.9	835754.313333333
Ge	72	He	1144435.86	7.3	103.7	1103607.52666667
Ge	72	HEHe	586866.10	2.7	102.5	572704.786666667
Rh	103	No Gas	2385751.17	1.7	103.8	2298893.16666667
Rh	103	He	7867794.13	5.5	95.3	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	BEA0987-BS1
File Name	042_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:19:51
Sample Type	LCS
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	48.479	No Gas	48.479	6	2.4	50	
75	As	51.010	He	51.01	72	1.3	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1295681.10	0.9	98.3	1318290.65
Sc	45	No Gas	3225167.17	9.3	143.8	2242215.16666667
Sc	45	He	1221595.40	3.7	107.3	1138713.6
Ge	72	No Gas	901721.31	0.4	107.9	835754.313333333
Ge	72	He	1091714.75	7.1	98.9	1103607.52666667
Ge	72	HEHe	567924.18	3.7	99.2	572704.786666667
Rh	103	No Gas	2294536.50	0.8	99.8	2298893.16666667
Rh	103	He	7459332.20	6.3	90.3	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	CCV
File Name	044_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:24:30
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	47.241	No Gas	47.241	6	3.1	50	
75	As	49.457	He	49.457	72	0.3	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1332575.90	2.5	101.1	1318290.65
Sc	45	No Gas	2433917.58	3.7	108.5	2242215.16666667
Sc	45	He	1100058.12	6.1	96.6	1138713.6
Ge	72	No Gas	929546.52	3.2	111.2	835754.313333333
Ge	72	He	1107172.67	5.9	100.3	1103607.52666667
Ge	72	HEHe	559198.55	3.0	97.6	572704.786666667
Rh	103	No Gas	2463288.58	2.8	107.2	2298893.16666667
Rh	103	He	7705987.75	6.9	93.3	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	CCB
File Name	045_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 14:26:48
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**JLG**

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.240	No Gas	0.24	6	1.8	0.5	
75	As	0.040	He	0.04	72	6.6	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1322826.39	0.4	100.3	1318290.65
Sc	45	No Gas	2380462.25	1.4	106.2	2242215.16666667
Sc	45	He	1074078.84	4.5	94.3	1138713.6
Ge	72	No Gas	903354.81	1.4	108.1	835754.313333333
Ge	72	He	1090018.36	2.9	98.8	1103607.52666667
Ge	72	HEHe	557943.19	2.2	97.4	572704.786666667
Rh	103	No Gas	2393857.58	2.4	104.1	2298893.16666667
Rh	103	He	7623236.64	5.7	92.3	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name	CCV
File Name	033_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02022024 HIGH MATRIX ODE.b
Acq Time	2024-02-02 13:58:59
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	48.040	No Gas	48.04	6	1.7	50	
75	As	48.989	He	48.989	72	0.4	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1346680.88	1.4	102.2	1318290.65
Sc	45	No Gas	2498777.83	1.0	111.4	2242215.16666667
Sc	45	He	1174419.15	5.0	103.1	1138713.6
Ge	72	No Gas	925875.60	0.9	110.8	835754.313333333
Ge	72	He	1147385.96	4.1	104.0	1103607.52666667
Ge	72	HEHe	594672.27	1.7	103.8	572704.786666667
Rh	103	No Gas	2410088.25	1.6	104.8	2298893.16666667
Rh	103	He	7922548.02	2.6	95.9	8258757.72666667
Ho	165	No Gas				0
Ho	165	He				0

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10005.D Vial: 5
Acq On : 29 Jan 2024 20:44 Operator: EMG
Sample : BEA0864-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:13:05 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.45	254665205	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.19	255000235	51.807	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	103.61%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

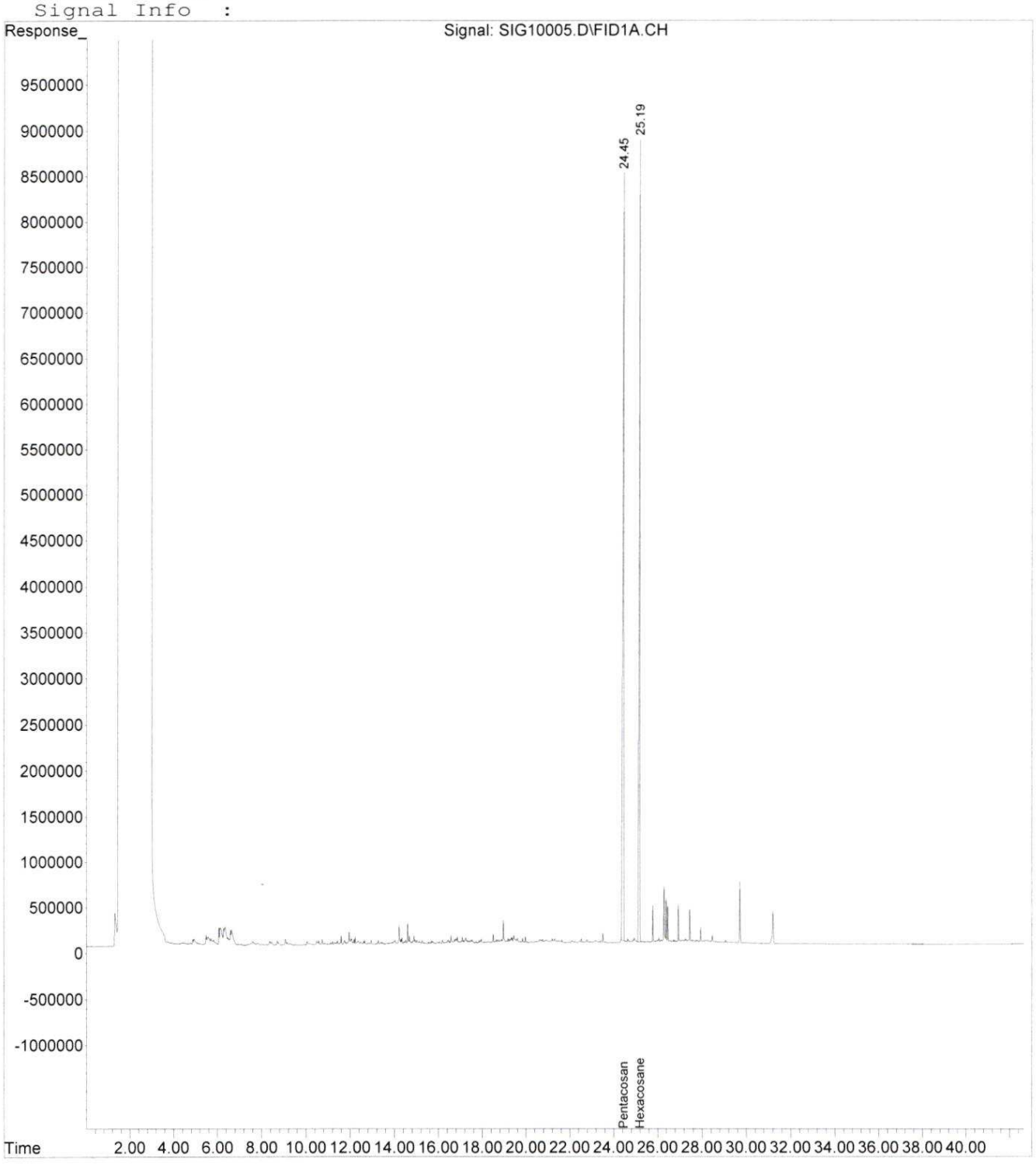
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10005.D Vial: 5
Acq On : 29 Jan 2024 20:44 Operator: EMG
Sample : BEA0864-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:14 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10006.D Vial: 6
Acq On : 29 Jan 2024 21:38 Operator: EMG
Sample : BEA0864-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:13:50 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.42	127319477	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.16	93460933	37.980	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	75.96%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	21.60	453364917	218.236	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

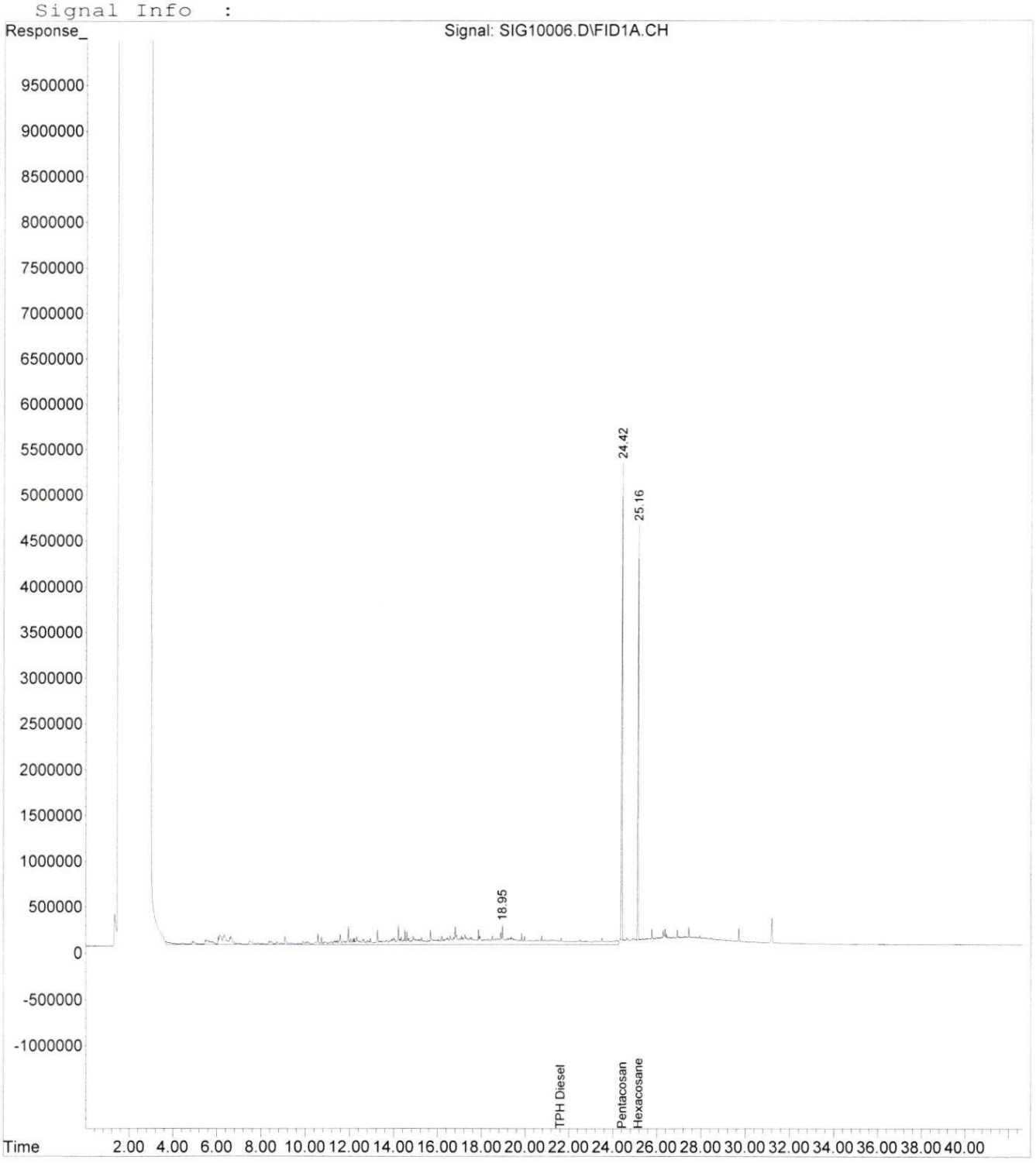
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10006.D Vial: 6
Acq On : 29 Jan 2024 21:38 Operator: EMG
Sample : BEA0864-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:15 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10007.D Vial: 7
Acq On : 29 Jan 2024 22:33 Operator: EMG
Sample : BEA0864-BSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:15:08 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.42	117659715	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.16	111227334	48.911	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	97.82%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	21.60	463941431	241.662	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

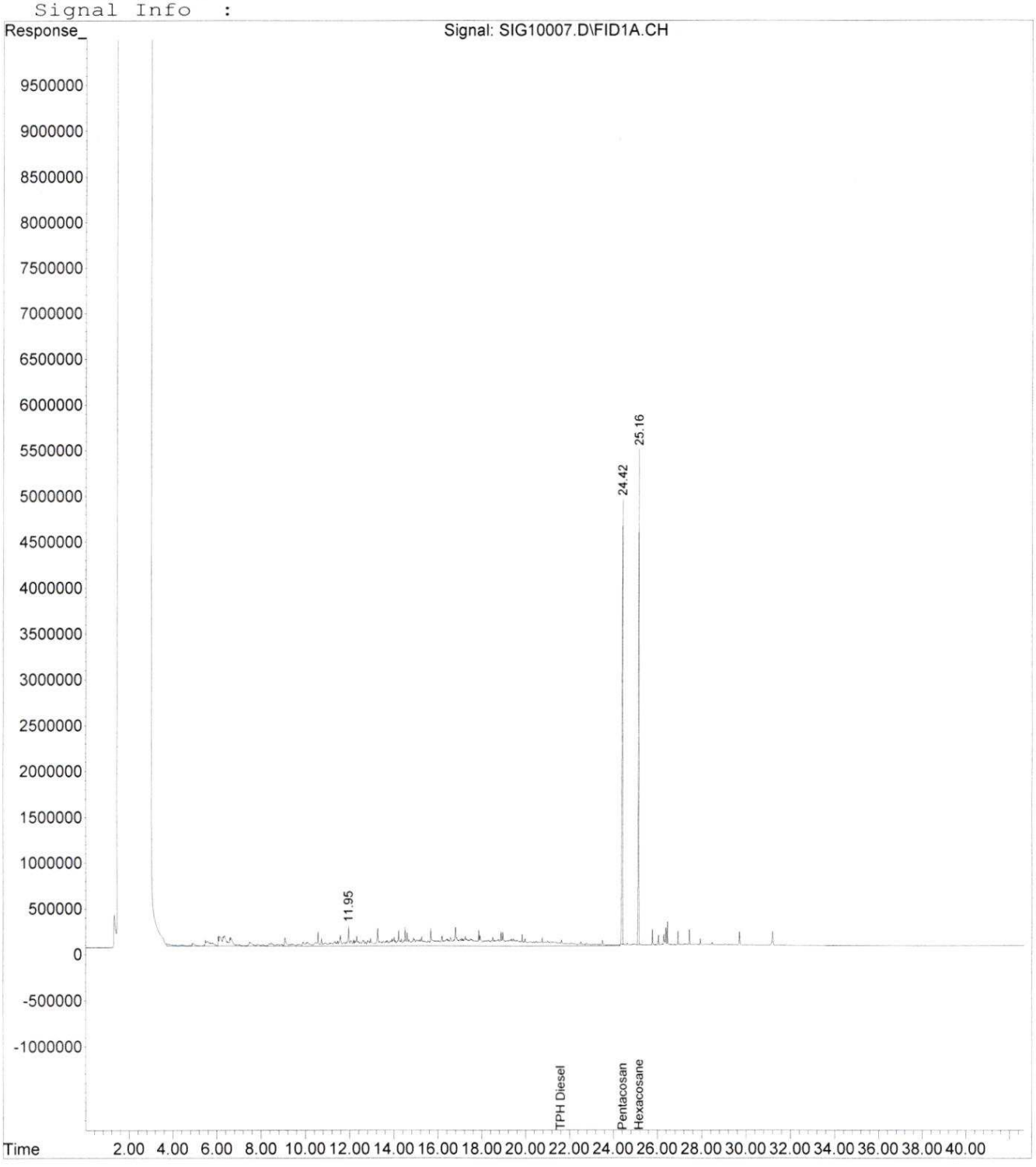
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10007.D Vial: 7
Acq On : 29 Jan 2024 22:33 Operator: EMG
Sample : BEA0864-BSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:17 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10008.D Vial: 8
Acq On : 29 Jan 2024 23:28 Operator: EMG
Sample : WEA08291-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:16:22 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.42	143362022	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.16	125014372	45.117	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	90.23%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

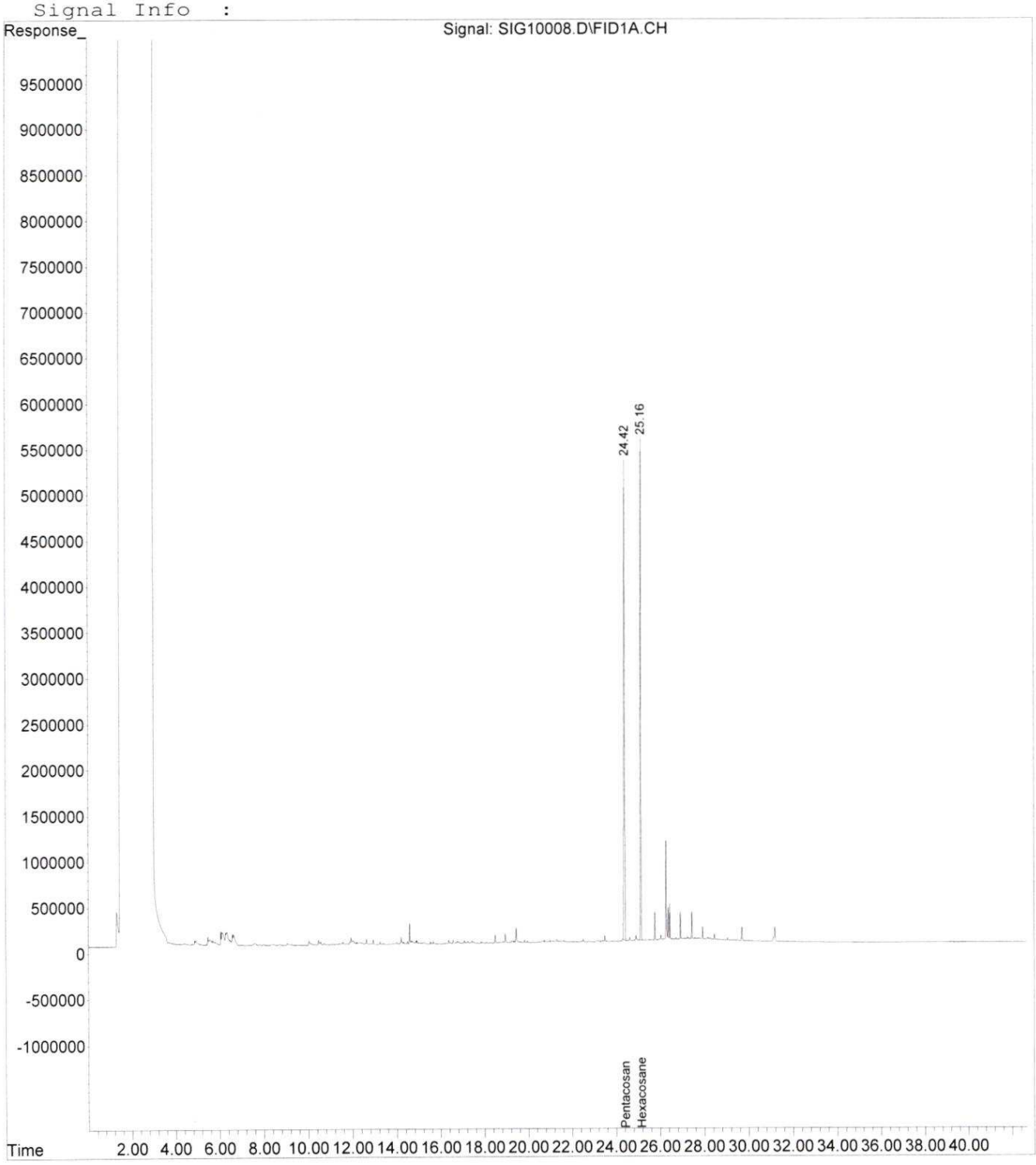
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10008.D Vial: 8
Acq On : 29 Jan 2024 23:28 Operator: EMG
Sample : WEA08291-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:20 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10009.D Vial: 9
Acq On : 30 Jan 2024 00:23 Operator: EMG
Sample : WEA0829-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:19:24 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.42	148491918	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.17	136578419	47.588	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	95.18%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

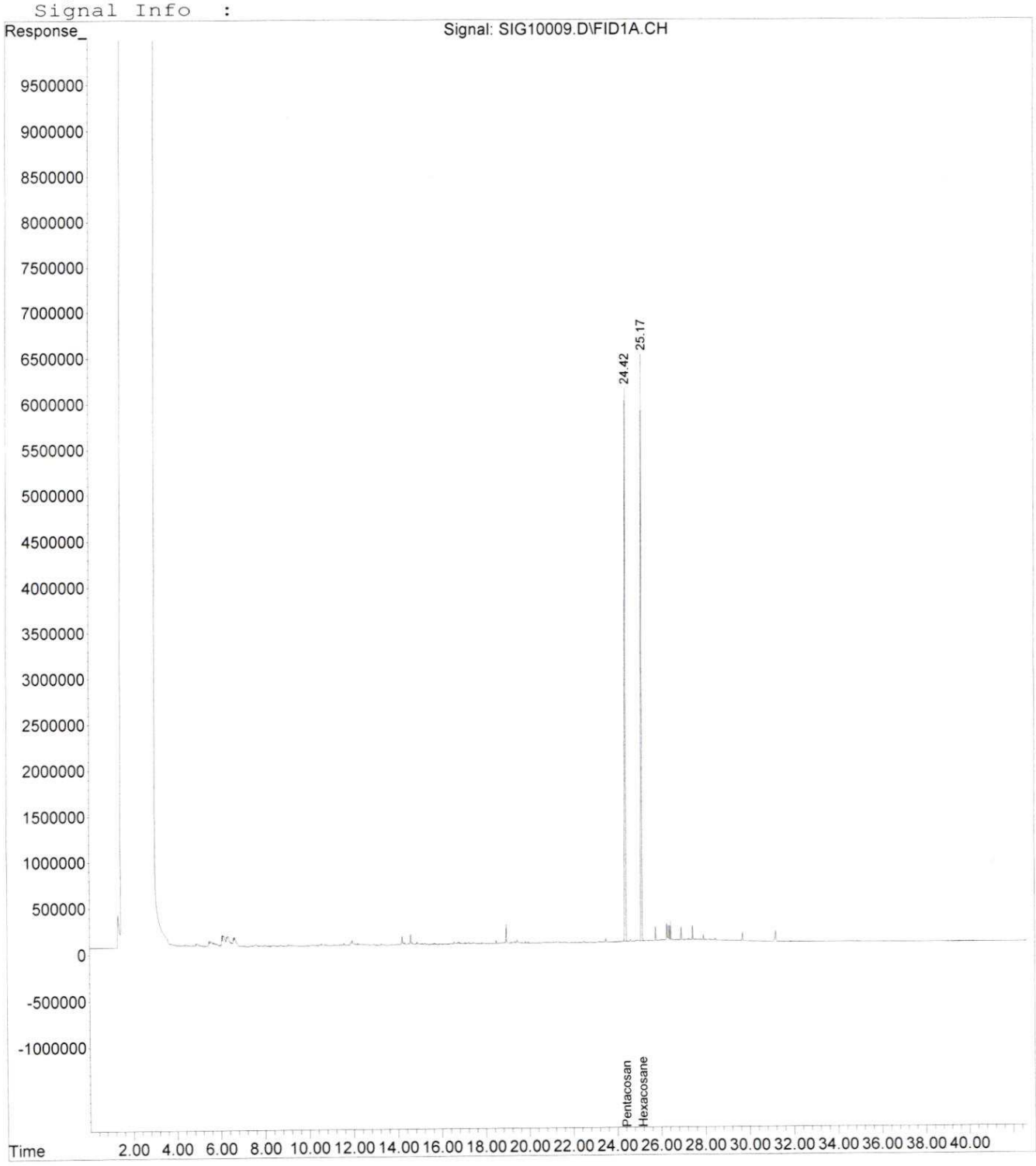
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10009.D Vial: 9
Acq On : 30 Jan 2024 00:23 Operator: EMG
Sample : WEA0829-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:21 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10010.D Vial: 10
Acq On : 30 Jan 2024 1:18 Operator: EMG
Sample : WEA0829-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:20:39 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

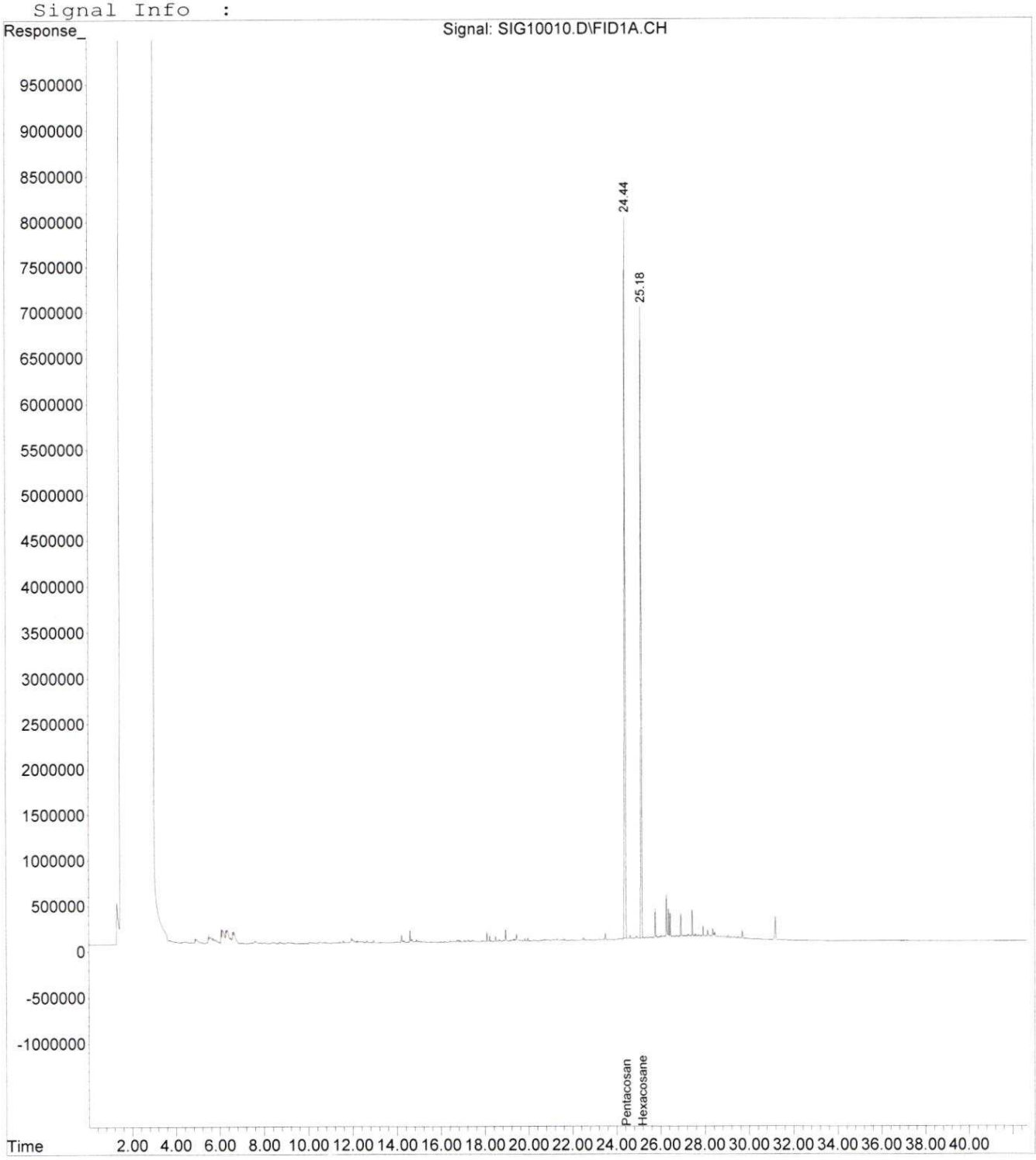
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.44	224867606	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.18	192437490	44.277	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	88.55%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10010.D Vial: 10
Acq On : 30 Jan 2024 1:18 Operator: EMG
Sample : WEA0829-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:23 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10011.D Vial: 11
Acq On : 30 Jan 2024 2:13 Operator: EMG
Sample : WEA0829-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:22:42 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

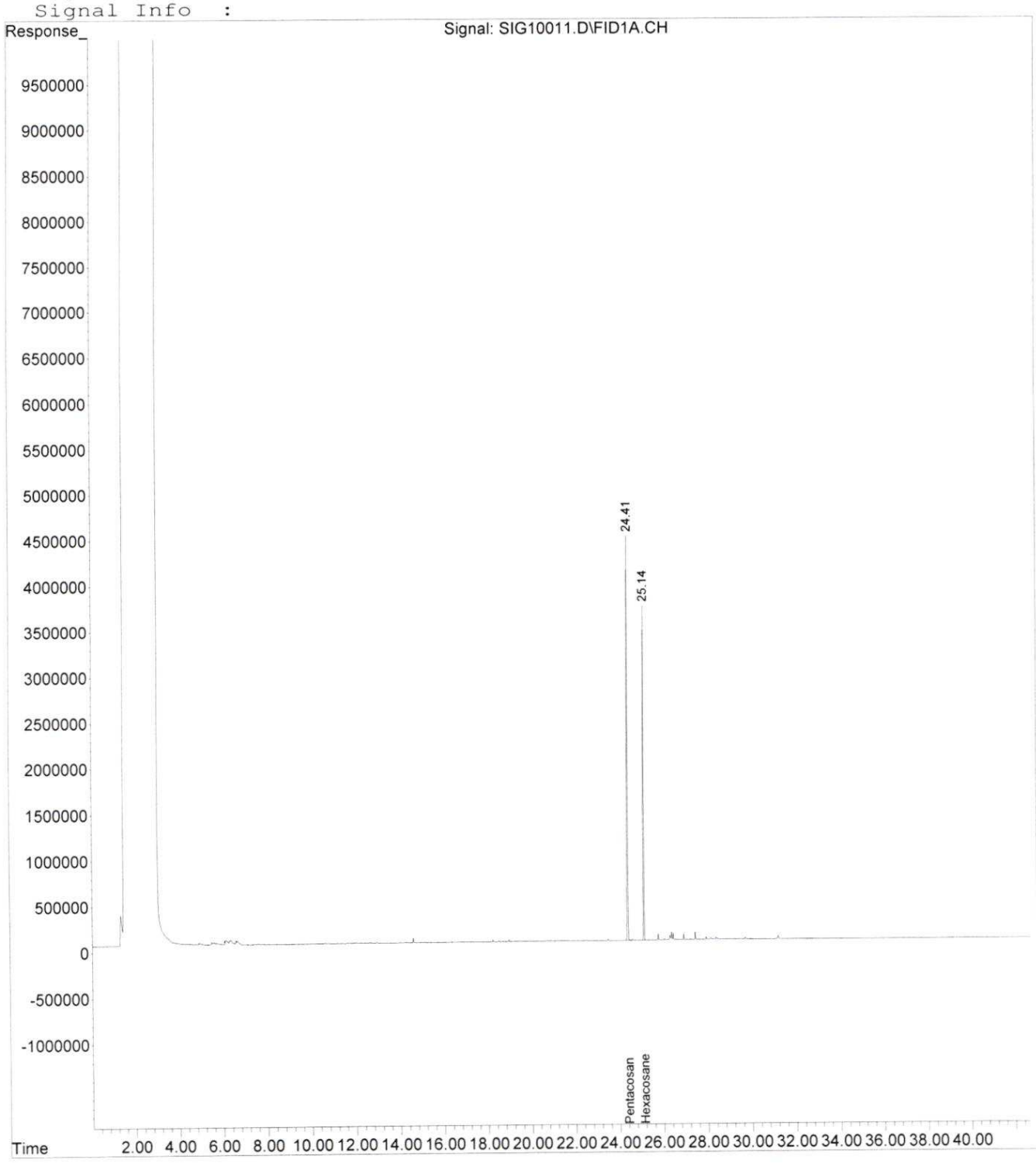
	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	Pentacosane	24.40	92436819	50.000 ppm
	System Monitoring Compounds			
2) S	Hexacosane	25.14	64906950	36.330 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery =	72.66%
	Target Compounds			
3) H	TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H	Mineral Oil	0.00	0	N.D. ppm
6) h	HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h	HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h	HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10011.D Vial: 11
Acq On : 30 Jan 2024 2:13 Operator: EMG
Sample : WEA0829-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:24 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10012.D Vial: 12
Acq On : 30 Jan 2024 3:08 Operator: EMG
Sample : WEA0829-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:24:08 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.41	97882264	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.15	84325659	44.573	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	89.15%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

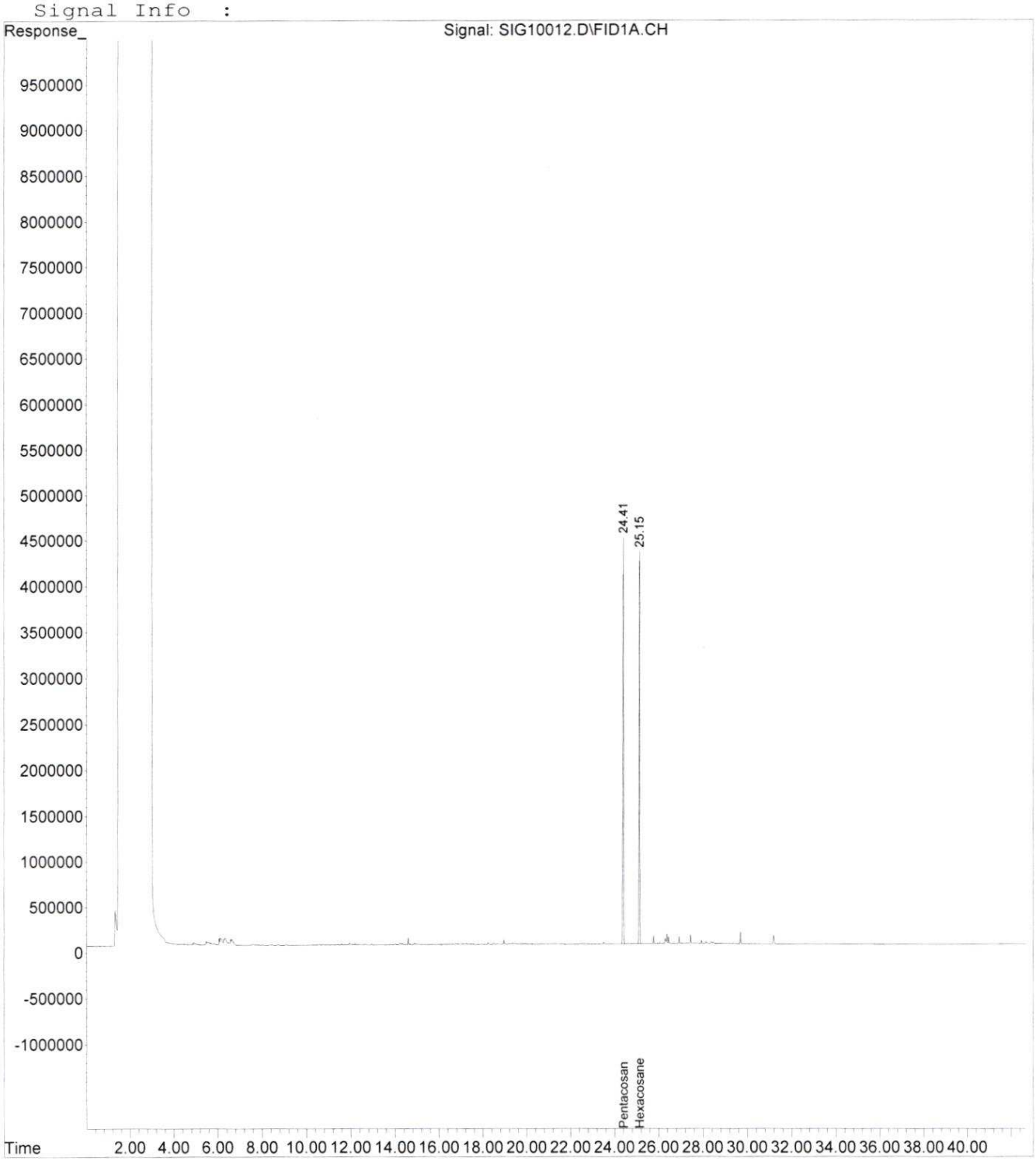
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10012.D Vial: 12
Acq On : 30 Jan 2024 3:08 Operator: EMG
Sample : WEA0829-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:26 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10013.D Vial: 13
Acq On : 30 Jan 2024 4:03 Operator: EMG
Sample : WEA0829-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:25:26 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

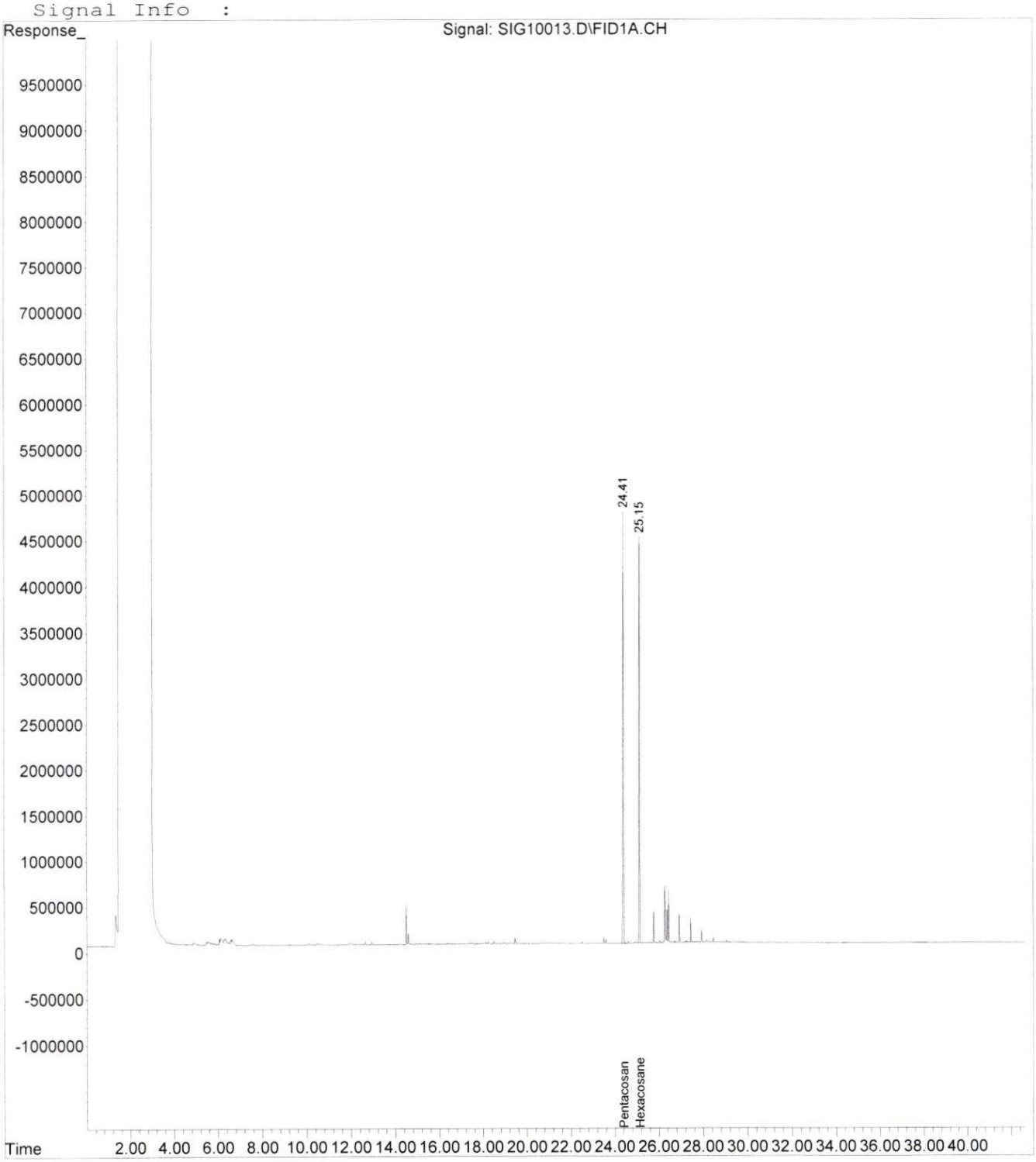
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.41	108441318	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.15	86053547	41.058	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	82.12%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10013.D Vial: 13
Acq On : 30 Jan 2024 4:03 Operator: EMG
Sample : WEA0829-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:27 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10014.D Vial: 14
Acq On : 30 Jan 2024 4:58 Operator: EMG
Sample : WEA0829-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:26:34 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.40	89058337	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.15	82637285	48.009	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	96.02%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

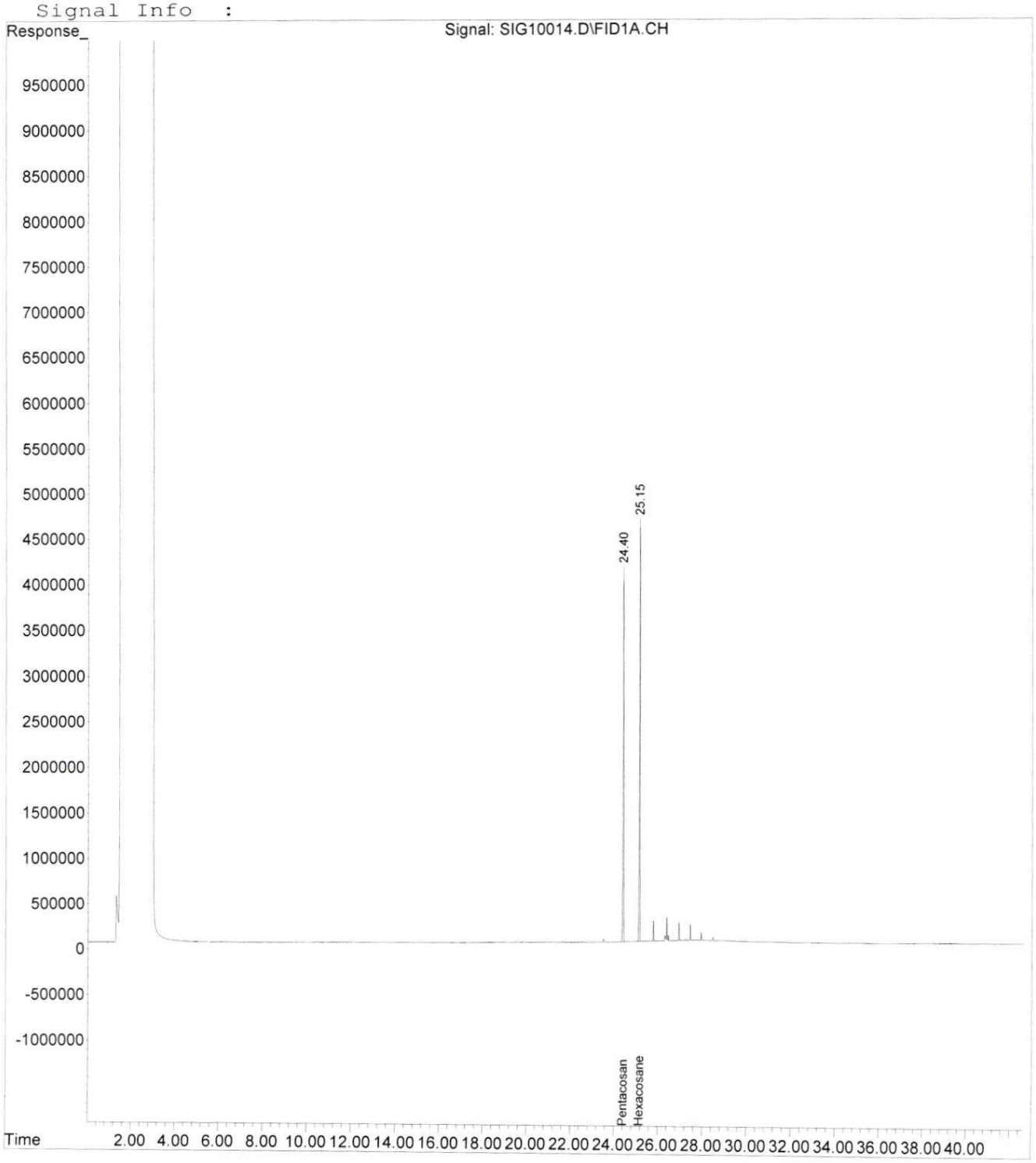
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10014.D Vial: 14
Acq On : 30 Jan 2024 4:58 Operator: EMG
Sample : WEA0829-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:29 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10015.D Vial: 15
Acq On : 30 Jan 2024 5:53 Operator: EMG
Sample : WEA0829-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:28:41 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

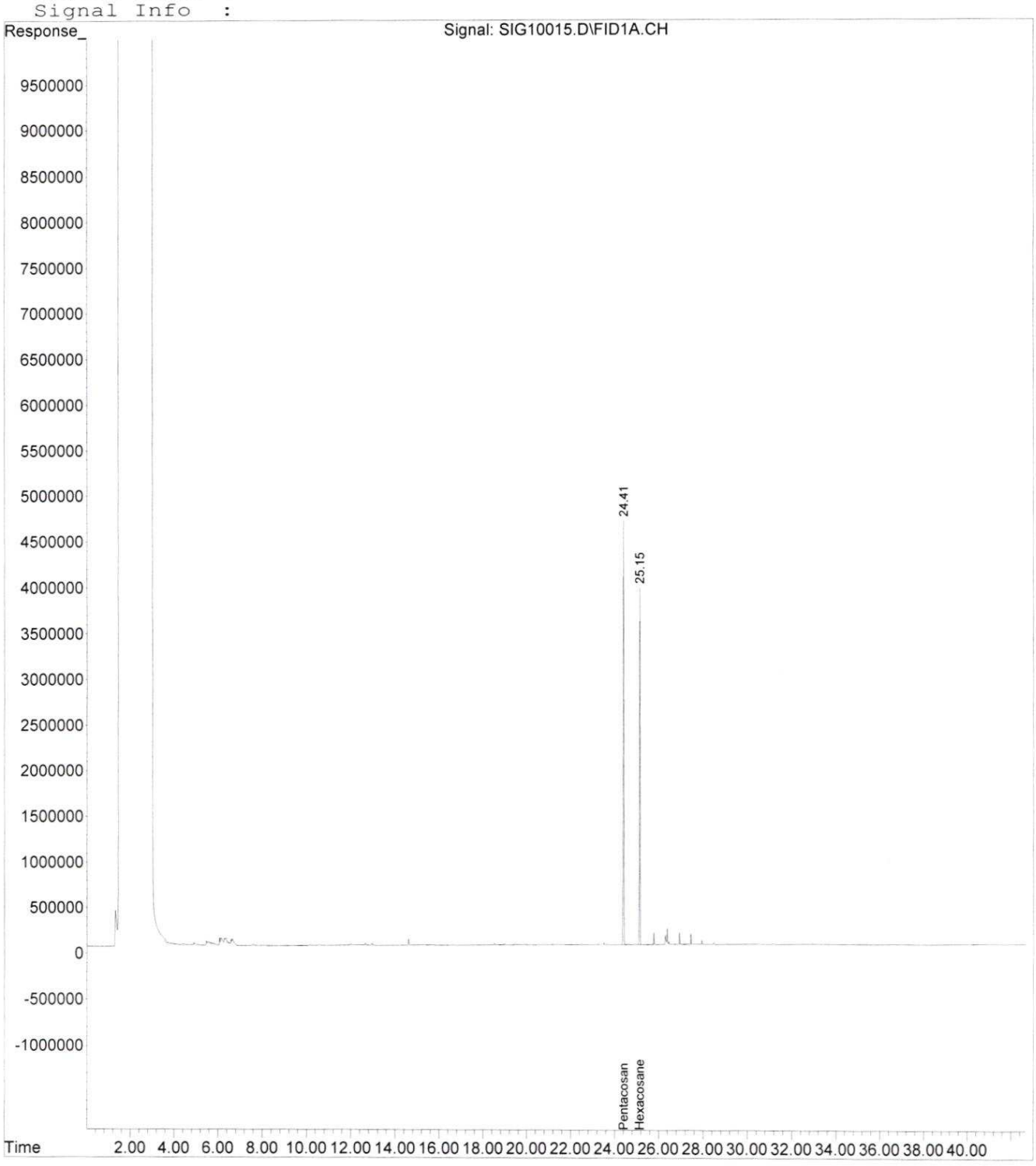
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.41	97166909	50.000	ppm	
	System Monitoring Compounds					
2)	S Hexacosane	25.15	77502188	41.268	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	82.54%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

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

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10015.D Vial: 15
Acq On : 30 Jan 2024 5:53 Operator: EMG
Sample : WEA0829-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:30 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10016.D Vial: 16
Acq On : 30 Jan 2024 6:48 Operator: EMG
Sample : WEA0829-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:29:43 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.41	106184288	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.16	99263054	48.367	ppm	m
Spiked Amount	50.000 Range 50 - 150		Recovery =	96.73%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

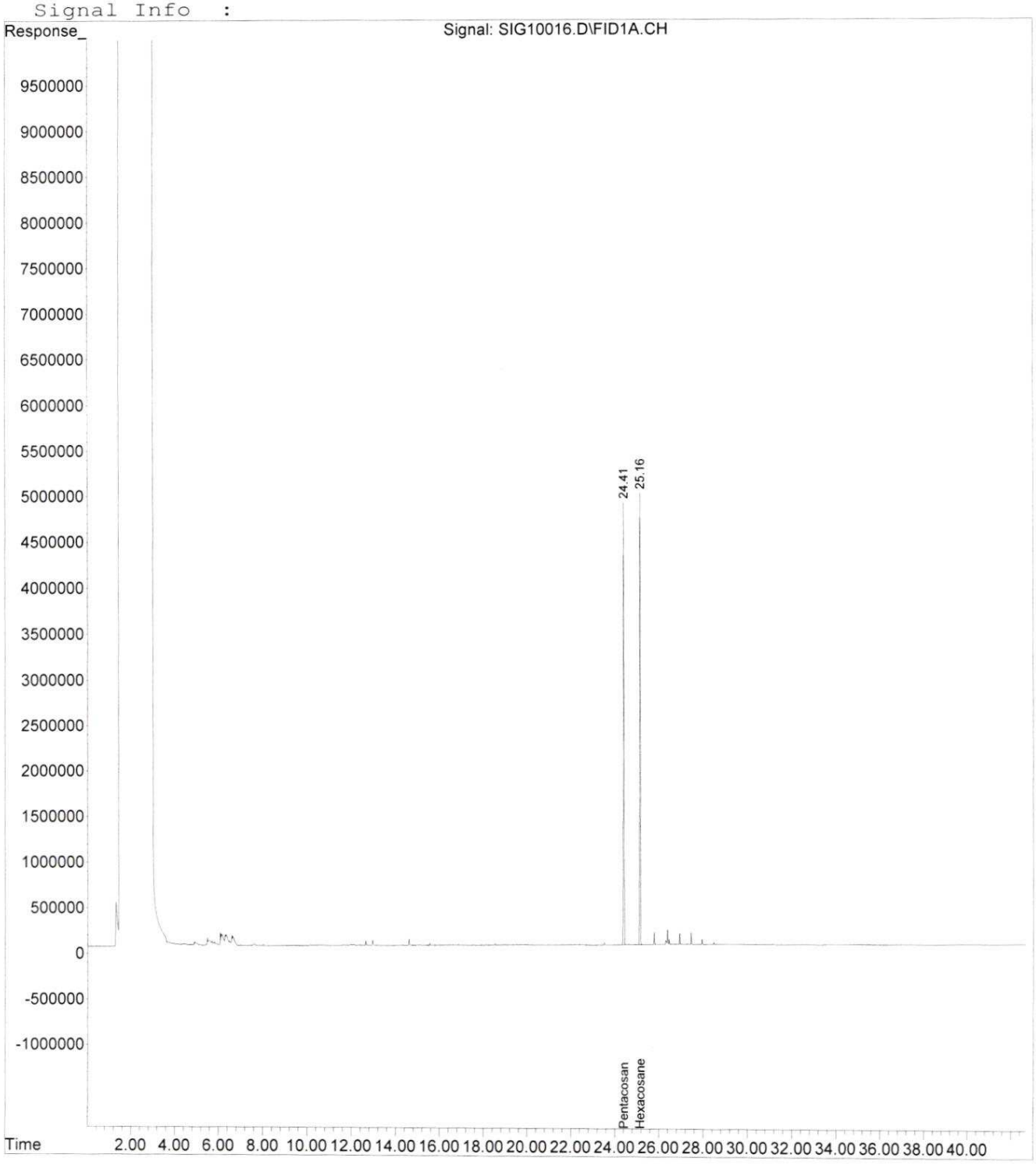
(f)=RT Delta > 1/2 Window (m)=manual int.
SIG10016.D 231228DHT.M Wed Jan 31 08:46:00 2024

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10016.D Vial: 16
Acq On : 30 Jan 2024 6:48 Operator: EMG
Sample : WEA0829-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:31 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10017.D Vial: 17
Acq On : 30 Jan 2024 7:43 Operator: EMG
Sample : WEA0829-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:31:25 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Pentacosane	24.41	87578935	50.000	ppm	m
System Monitoring Compounds					
2) S Hexacosane	25.14	68019954	40.184	ppm	
Spiked Amount 50.000	Range 50 - 150	Recovery =	80.37%		
Target Compounds					
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H Mineral Oil	0.00	0	N.D.	ppm	
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm	

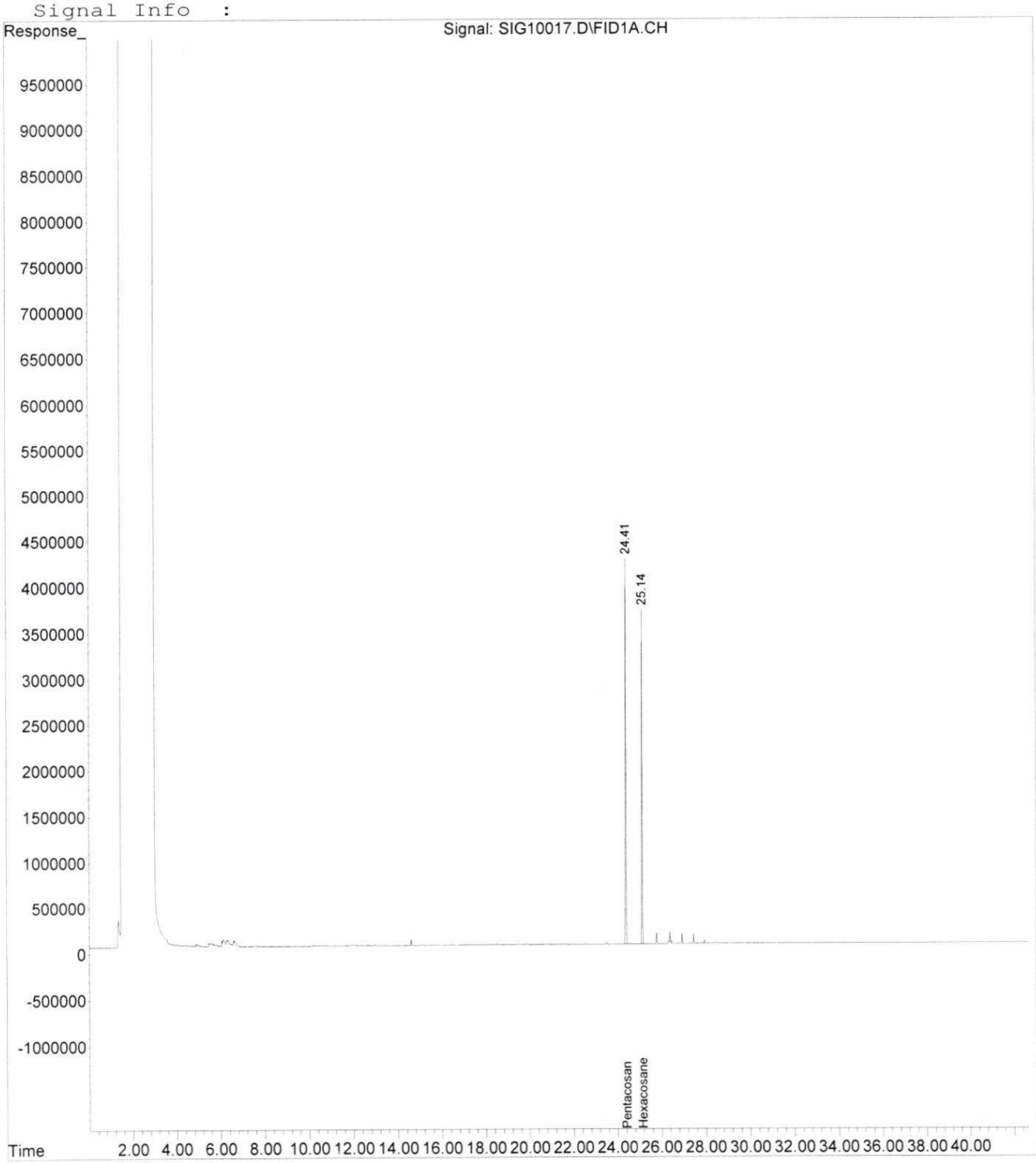
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10017.D Vial: 17
Acq On : 30 Jan 2024 7:43 Operator: EMG
Sample : WEA0829-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:33 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10018.D Vial: 18
Acq On : 30 Jan 2024 8:38 Operator: EMG
Sample : WEA0829-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 09:32:26 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

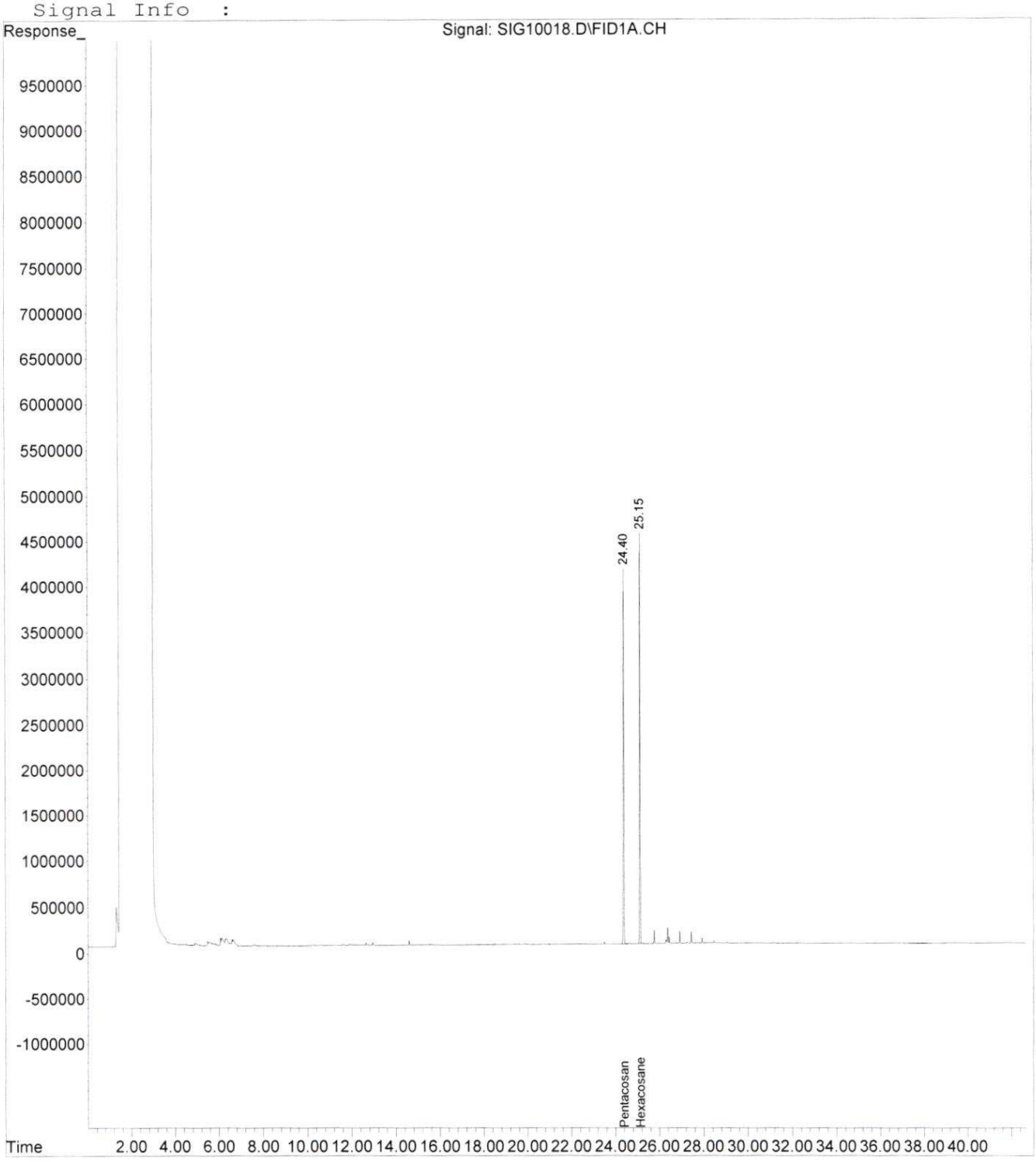
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.40	85062633	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	25.15	81723612	49.708 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	99.42%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10018.D Vial: 18
Acq On : 30 Jan 2024 8:38 Operator: EMG
Sample : WEA0829-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 9:34 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10019.D Vial: 19
Acq On : 30 Jan 2024 9:33 Operator: EMG
Sample : WEA0829-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 13:39:18 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.41	109610907	50.000	ppm	
	System Monitoring Compounds					
2)	S Hexacosane	25.16	97773569	46.152	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	92.30%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

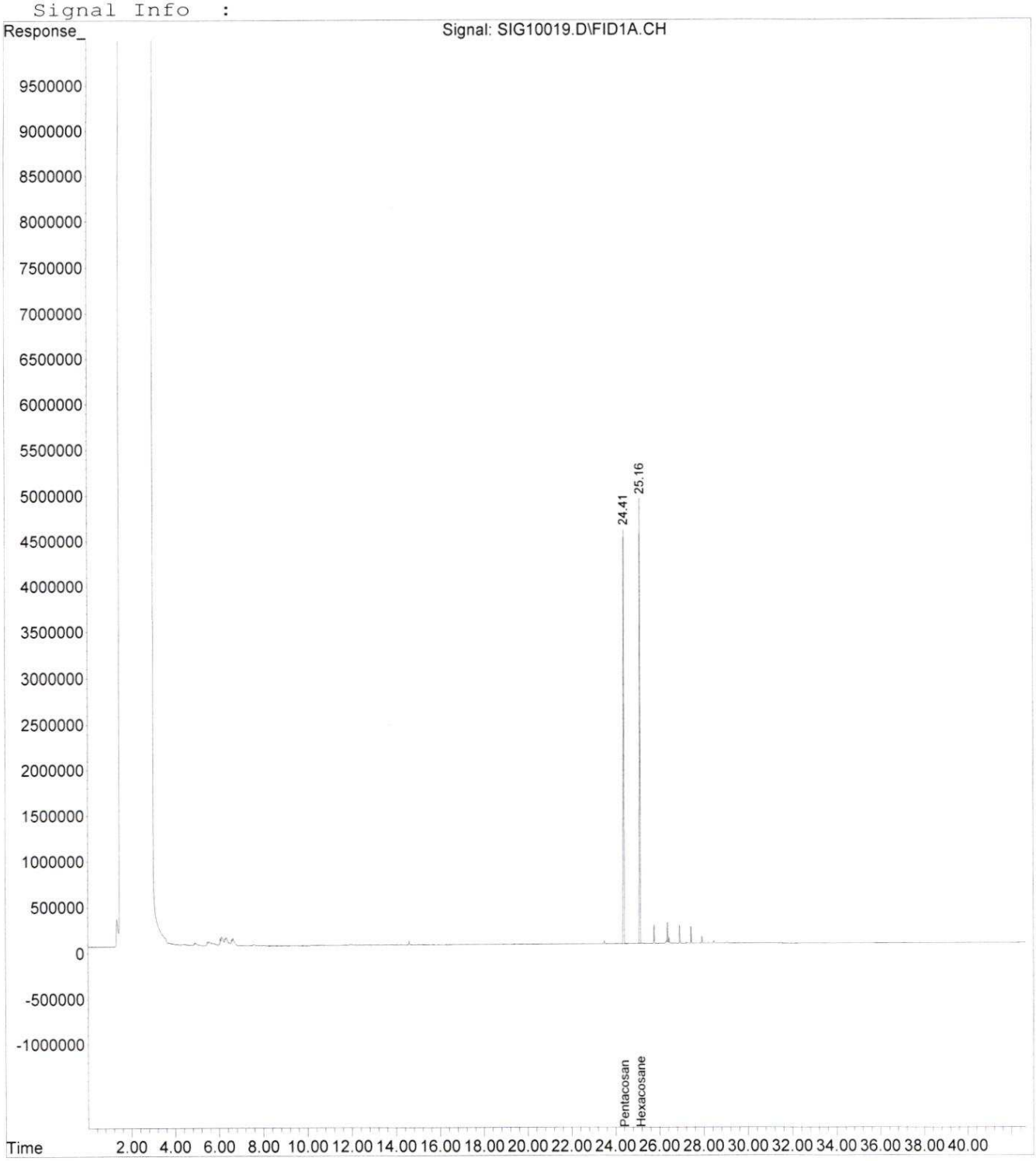
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : M:\HPCHEM\1\2023DATA\012924\SIG10019.D Vial: 19
Acq On : 30 Jan 2024 9:33 Operator: EMG
Sample : WEA0829-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jan 30 13:41 2024 Quant Results File: 231228DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\231228DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Dec 29 09:40:42 2023
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



TPHDx/HCID Extractions by EPA8015mod

Anatek Labs, Inc Spokane

Batch: BEA0864 Date: 1.29.2024 Time: 11:20 Initial: EMG

Sample Number	Sample ID	Sample Matrix	Sample Amount	µL diesel spike amt	Surrogate spike amt	Internal spike amt	clean up used	Extract 3x with MeCl2	Final volume (mL)
BEA0864-BLK1	Blank	water	250.00	0	10	10	no	yes	1
BEA0864-BS1	LCS	water	250.00	12.5	10	10	no	yes	1
BEA0864-BSD1	LCS Dup	water	250.00	12.5	10	10	no	yes	1
WEA0829-01	WW-3	water	250.00	0	10	10	no	yes	1
WEA0829-02	WW-6	water	250.00	0	10	10	no	yes	1
WEA0829-03	E-1	water	250.00	0	10	10	no	yes	1
WEA0829-04	E-1 Dup	water	250.00	0	10	10	no	yes	1
WEA0829-05	E-1 MS/MSD	water	250.00	0	10	10	no	yes	1
WEA0829-06	D-2	water	250.00	0	10	10	no	yes	1
WEA0829-07	D-3	water	250.00	0	10	10	no	yes	1
									1
WEA0829-09	D-6	water	250.00	0	10	10	no	yes	1
WEA0829-10	D-7	water	250.00	0	10	10	no	yes	1
WEA0829-11	D-8	water	250.00	0	10	10	no	yes	1
WEA0829-12	U-2/WW-5	water	250.00	0	10	10	no	yes	1
WEA0829-13	U-3/WW-4	water	250.00	0	10	10	no	yes	1
					10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1

EMG

$MeCl_2$	2302121	Balance	—
Na_2SO_4	2203638	Pipette	PT-11
Gas 20,000 ppm	2203385		
Diesel 20,000 ppm	2303994		
Motor Oil 20,000 ppm	2301785		
Internal Standard	2303289		
Surrogate Standard	2303288		
Diesel ICV	—		

BEA0864

PREPARATION BENCH SHEET
Metals

BEA0987

Matrix: Water **Prepared using: Metals - W 245.1 Digest**

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BEA0987-BLK1	01/31/24 14:55 - JLG	50	50				
BEA0987-BS1	01/31/24 14:55 - JLG	50	50	2204254		280	
BEA0987-MS1	01/31/24 14:55 - JLG	50	50	2204254	WEA0829-02	280	
BEA0987-MS2	01/31/24 14:55 - JLG	50	50	2204254	WEA0829-12	280	
BEA0987-MSD1	01/31/24 14:55 - JLG	50	50	2204254	WEA0829-02	280	
BEA0987-MSD2	01/31/24 14:55 - JLG	50	50	2204254	WEA0829-12	280	
WEA0829-01 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-02 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-03 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-04 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-05 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-06 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-07 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-08 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-09 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-10 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			

Batch Prepared By _____ Date _____ Analytical Run Date _____

C:\Promium\Element\Print\bch_Metals_ls.rpt

PREPARATION BENCH SHEET
Metals

BEA0987

(Continued)

Matrix: Water

Prepared using: Metals - W 245.1 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WEA0829-11 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-12 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			
WEA0829-13 Analytes: Mercury	01/31/24 14:55 - JLG	50	50	Client: Stantec-GS			

Support Equipment: W PT-04 W PT-33 W PT-21, W PT-27 BLK1B

Reagent ID	Description	LotNum
2200419	Hg. Tin(II) chloride	-
2300400	Sulfuric Acid, OmniTrace	62252
2303108	P. 1:1 HCl-metals	59072
2303320	Nitric Acid	63076
2303351	P. Metals Digestion Vials	102623
2400174	Hg. 5% Potassium Permangar	-
2400405	Hg. Hydroxlamine Hydrochlori	-

Batch Prepared By _____ Date _____ Analytical Run Date _____

C:\Promium\Element\Print\bch_Metals_ls.rpt

Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02052024 Hg H2SO4 TRY.wszf

Creation Date: 2/5/2024 10:26:08 AM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank		STD	02/05/24 11:26:41 am	0.000	877	3.19	-67.53		N/A
Replicates	900.7	898.9	865.9	842.6					
Standard #1 (0.5 ug/L)		STD	02/05/24 11:29:12 am	0.500	11252	1.01	-89.47		N/A
Replicates	11336.5	11313.8	11271.3	11086.0					
Standard #2 (1 ug/L)		STD	02/05/24 11:31:44 am	1.000	24577	1.75	24.52		N/A
Replicates	25035.0	24792.3	24432.8	24047.5					
Standard #3 (2.0 ug/L)		STD	02/05/24 11:34:16 am	2.000	46744	2.61	45.93		N/A
Replicates	48108.8	47311.6	46235.0	45320.3					
Standard #4 (5.0 ug/L)		STD	02/05/24 11:36:48 am	5.000	114922	1.00	187.44		N/A
Replicates	113571.9	114464.0	115432.8	116219.0					
Standard #5 (10.0 ug/L)		STD	02/05/24 11:39:21 am	10.000	217176	0.40	-100.88		N/A
Replicates	216863.6	218234.2	217439.9	216167.2					

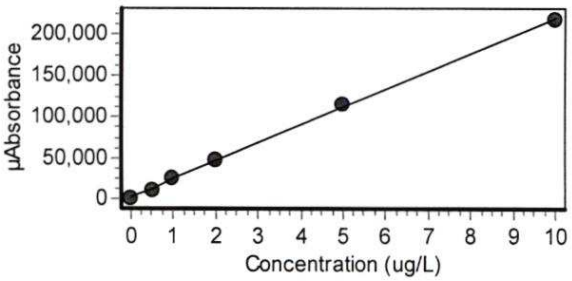
Calibration

Equation: A = 2342.535 + 21702.310C

R2: 0.99917

SEE: 2670.9450

Flags:



ICV		ICV	02/05/24 11:44:03 am	4.780	105985	2.09			119.39
Replicates	108096.4	107190.0	105476.6	103175.5					
CCV (95-105%)		OPR	02/05/24 11:46:35 am	5.160	114348	0.47			103.22
Replicates	113874.9	114672.9	114924.0	113919.2					
CCB		CCB	02/05/24 11:49:06 am	-0.071	795	0.23			N/A
Replicates	799.4	795.4	791.0	793.2					
BLANK		MB	02/05/24 11:51:37 am	-0.105	73	0.30			N/A
Replicates	81.4	73.9	65.2	71.2					
LCS		LCS	02/05/24 11:54:09 am	5.370	118836	1.55		L	134.19
Replicates	119767.0	120208.6	119157.6	116211.4					
WEA0829-01		UNK	02/05/24 11:56:40 am	-0.109	-13	0.57			N/A
Replicates	-10.0	3.7	-28.3	-18.1					
WEA0829-02		UNK	02/05/24 11:59:11 am	-0.103	103	0.70			N/A
Replicates	122.2	109.7	88.7	92.5					

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	% Recovery
MS1	UNK	02/05/24 12:01:43 pm	5.260	116398	0.99		N/A
Replicates	115078.5	115967.6	116845.1	117699.1			
MSD1	UNK	02/05/24 12:04:15 pm	4.920	109015	0.73		N/A
Replicates	108069.8	108759.7	109360.2	109869.9			
WEA0829-03	UNK	02/05/24 12:06:46 pm	-0.128	-442	1.70		N/A
Replicates	-387.8	-432.0	-444.9	-502.7			
WEA0829-04	UNK	02/05/24 12:09:18 pm	-0.108	5	0.35		N/A
Replicates	15.6	-3.5	2.0	7.7			
WEA0829-05	UNK	02/05/24 12:11:50 pm	-0.103	116	1.56		N/A
Replicates	151.1	129.2	115.6	69.1			
WEA0829-05 RE	UNK	02/05/24 12:14:23 pm	-0.104	95	0.88		N/A
Replicates	102.0	80.7	76.7	119.4			
WEA0829-06	UNK	02/05/24 12:16:55 pm	-0.101	153	0.92		N/A
Replicates	154.5	131.6	180.0	146.6			
WEA0829-07	UNK	02/05/24 12:19:27 pm	-0.110	-34	0.70		N/A
Replicates	-41.7	-9.4	-45.4	-40.2			
WEA0829-08	UNK	02/05/24 12:21:58 pm	-0.107	15	0.77		N/A
Replicates	18.8	37.7	10.7	-5.3			
WEA0829-09	UNK	02/05/24 12:24:29 pm	-0.099	204	4.59		N/A
Replicates	123.5	126.3	237.8	327.7			
WEA0829-10	UNK	02/05/24 12:27:00 pm	-0.099	185	2.86		N/A
Replicates	148.6	134.9	182.6	272.1			
WEA0829-11	UNK	02/05/24 12:29:32 pm	-0.100	166	0.63		N/A
Replicates	180.2	176.2	153.9	155.7			
WEA0829-12	UNK	02/05/24 12:32:03 pm	-0.100	182	0.56		N/A
Replicates	183.3	176.7	170.9	199.0			
MS2	UNK	02/05/24 12:34:34 pm	5.190	114923	1.00		N/A
Replicates	113599.2	114494.7	115385.4	116211.0			
MSD2	UNK	02/05/24 12:37:06 pm	4.570	101450	2.14		N/A
Replicates	103367.7	102713.9	101114.3	98605.3			
WEA0829-13	UNK	02/05/24 12:39:38 pm	-0.121	-288	2.61		N/A
Replicates	-352.0	-339.4	-249.0	-211.4			
WEA0829-08 RE	UNK	02/05/24 12:42:09 pm	-0.087	458	0.96		N/A
Replicates	458.0	473.6	433.3	468.9			
WEA0829-09 RE	UNK	02/05/24 12:44:40 pm	-0.090	387	0.33		N/A
Replicates	381.3	383.5	396.0	388.2			
WEA0829-10 RE	UNK	02/05/24 12:47:11 pm	-0.102	119	0.85		N/A
Replicates	140.9	125.5	96.8	111.5			
WEA0829-11 RE	UNK	02/05/24 12:49:42 pm	-0.097	237	0.39		N/A
Replicates	233.5	227.4	244.4	243.2			

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	% Recovery
WEA0829-13	UNK	02/05/24 12:52:14 pm	-0.101	145	0.46		N/A
Replicates	155.0	134.7	152.4	138.5			
BLANK	UNK	02/05/24 12:54:46 pm	-0.101	153	0.68		N/A
Replicates	173.6	139.6	153.7	145.7			
LCS	UNK	02/05/24 12:57:18 pm	6.040	133475	0.32		N/A
Replicates	132894.9	133497.8	133876.5	133629.8			
BLK	UNK	02/05/24 12:59:50 pm	-0.081	585	0.52		N/A
Replicates	583.8	587.5	572.5	594.3			
CK	UNK	02/05/24 01:02:22 pm	5.270	116697	1.05		N/A
Replicates	115259.6	116254.2	117229.7	118044.4			
MDL1 0.5	UNK	02/05/24 01:04:53 pm	0.456	12249	1.19		N/A
Replicates	12107.6	12217.4	12280.6	12388.6			
MDL2 0.5	UNK	02/05/24 01:07:25 pm	0.456	12229	0.99		N/A
Replicates	12217.3	12332.7	12264.2	12099.7			
MDL3 0.5	UNK	02/05/24 01:09:56 pm	0.460	12321	0.79		N/A
Replicates	12278.5	12386.3	12388.3	12232.0			
BLANK	UNK	02/05/24 01:12:28 pm	-0.103	98	0.83		N/A
Replicates	89.1	102.1	79.1	122.3			
LCS	UNK	02/05/24 01:15:01 pm	7.710	169769	1.01		N/A
Replicates	167840.0	169103.0	170356.2	171775.5			
WEA0668-01	UNK	02/05/24 01:17:32 pm	-0.101	160	0.39		N/A
Replicates	171.3	153.1	154.0	160.6			
WEA0668-02	UNK	02/05/24 01:20:03 pm	-0.096	269	0.30		N/A
Replicates	270.6	277.7	263.5	265.5			
WEA0668-03	UNK	02/05/24 01:22:34 pm	-0.097	230	0.75		N/A
Replicates	246.9	214.8	241.1	218.9			
WEA0669-01	UNK	02/05/24 01:25:05 pm	-0.096	255	0.39		N/A
Replicates	252.8	244.1	257.8	263.5			
WEA0669-02	UNK	02/05/24 01:27:37 pm	-0.097	248	0.81		N/A
Replicates	250.1	241.5	231.0	271.2			
WEA0719-01	UNK	02/05/24 01:30:09 pm	-0.098	226	0.33		N/A
Replicates	226.2	230.8	230.0	215.8			
WEA0719-02	UNK	02/05/24 01:32:40 pm	-0.092	352	0.44		N/A
Replicates	352.0	350.9	340.9	362.3			
WEA0912-01	UNK	02/05/24 01:35:12 pm	-0.090	384	0.40		N/A
Replicates	373.4	392.2	386.7	384.6			
MS3	UNK	02/05/24 01:37:44 pm	-0.099	201	0.32		N/A
Replicates	205.5	192.1	200.3	207.1			
MSD3	UNK	02/05/24 01:40:16 pm	5.440	120350	1.32		N/A
Replicates	118445.3	119845.8	121059.4	122047.6			

Matrix SCIENCES | PAL PACIFIC AGRICULTURAL LABORATORY

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Anatek Labs Inc
504 E Sprague Ave, Suite D
Spokane, WA 99202

Report Number: P240124
Report Date: February 21, 2024
Client Project ID: [none]

Analytical Report

Client Sample ID: WEA0829-01
Matrix: water

PAL Sample ID: P240124-01
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 98 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

Client Sample ID: WEA0829-03
Matrix: water

PAL Sample ID: P240124-02
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 102 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

Client Sample ID: WEA0829-04
Matrix: water

PAL Sample ID: P240124-03
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 101 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Kara Greer, Project Manager

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Sherwood, OR 97140

Anatek Labs Inc
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Spokane, WA 99202

Report Number: P240124
Report Date: February 21, 2024
Client Project ID: [none]

Analytical Report

Client Sample ID: WEA0829-05
Matrix: water

PAL Sample ID: P240124-04
Sample Date: 1/22/24
Received Date: 2/8/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
2/12/24	2/14/24	Paraquat	ND	10 ug/L	

Surrogate Recovery: 94 %
Surrogate Recovery Range: 60-140
(Ethyl Viologen used as Surrogate)

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Kara Greer, Project Manager

Matrix SCIENCES | PAL PACIFIC AGRICULTURAL LABORATORY

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504 E Sprague Ave, Suite D
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Report Number: P240124
Report Date: February 21, 2024
Client Project ID: [none]

Quality Assurance

Method Blank Data **Matrix:** water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
2/12/24	2/13/24	24B1208-BLK1	Paraquat	Not Detected	< 10 ug/L	

Blank Spike Data **Matrix:** water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
2/12/24	2/13/24	24B1208-BS1	Paraquat	96	60-140	
2/12/24	2/13/24	24B1208-BSD1	Paraquat	99	60-140	

Project Notes

Notes	Definition
H1	The sample was received and extracted outside of recommended hold time.

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Kara Greer, Project Manager

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Batch ID: BEA0840 Date: 1/27/2024 Time: 1345 Initals: ARS

QC REQUIREMENTS:	Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120% Run a blank and lcs before and after every 20 samples, plus dup and ms/msd after 20 samples.						
TSS Reagents	**Std. #**	**Amount Spiked**	**Balance ID**	**Oven**	**Temp**	**Filters**	**Thermometer**
100ppm Cellulose TSS Soln.	2400172	100 ppm	BAL-06	OVEN 5	105	2302098	T-Oven 3

Comments:

Date/Time of Weigh: 1/29/24 1011

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
BEA0840-BLK1	Blank	74	0.1007	100	0.1006	0.1005	1	-2.00	-2.00	
BEA0840-BLK2	Blank	680	0.1009	100	0.101	0.1008	1	-1.00	-1.00	
BEA0840-BLK3	Blank	810	0.1006	100	0.1004	0.1006	1	-2.00	-2.00	
BEA0840-BLK4	Blank	678	0.1009	100	0.1003	0.1005	1	-6.00	-6.00	
BEA0840-BS1	LCS	948	0.1007	100	0.1109	0.1109	1	102.00	102.00	
BEA0840-BS2	LCS	502	0.1002	100	0.1106	0.1106	1	104.00	104.00	
BEA0840-DUP2	Duplicate WEA0829-04	981	0.1011	100	0.1043	0.1043	1	32.00	32.00	
WEA0829-04	E-1 Dup	993	0.1006	100	0.1036	0.1037	1	30.00	30.00	
WEA0829-05	E-1 MS/MSD	998	0.1078	100	0.1024	0.102	1	-58.00	-58.00	
YEA0380-03	005 Process to POTW	676	0.1045	100	0.102	0.1017	1	-28.00	-28.00	
WEA0829-01	WW-3	980	0.1024	100	0.1014	0.1014	1	-10.00	-10.00	
WEA0829-02	WW-6	510	0.1001	100	0.1006	0.1008	1	5.00	5.00	
WEA0829-03	E-1	499	0.1	100	0.1019	0.1015	1	15.00	15.00	
BEA0840-MS2	Matrix Spike WEA0829-05	972	0.1018	50	0.1054	0.1057	2	36.00	72.00	
BEA0840-MSD2	Matrix Spike Dup WEA082	976	0.0997	50	0.1043	0.1044	2	46.00	92.00	
WEA0829-06	D-2	951	0.101	100	0.1018	0.102	1	8.00	8.00	
WEA0829-07	D-3	415	0.1005	100	0.1014	0.1012	1	7.00	7.00	
WEA0829-08	D-4	986	0.1002	100	0.102	0.1017	1	15.00	15.00	
WEA0829-09	D-6	991	0.1014	100	0.1022	0.1022	1	8.00	8.00	
WEA0829-10	D-7	404	0.1004	100	0.1027	0.103	1	23.00	23.00	
WEA0829-11	D-8	**551**	**0.1002**	**100**	**0.1006**	**0.1008**	1	4.00	4.00	
WEA0829-12	U-2/WW-5	75	0.1005	100	0.1009	0.1012	1	4.00	4.00	
WEA0829-13	U-3/WW-4	975	0.0998	100	0.1014	0.1016	1	16.00	16.00	

BEA0840

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Batch ID: BEB0037 Date: 2/1/2024 Time: 15:32 Initals: ARY

QC REQUIREMENTS:	Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120% Run a blank and lcs before and after every 20 samples, plus dup and ms/msd after 20 samples.						
TSS Reagents	**Std. #**	**Amount Spiked**	**Balance ID**	**Oven**	**Temp**	**Filters**	**Thermometer**
100ppm Cellulose TSS Soln.	2400560	100 ppm	Balance ID	Oven 5	105	Yakama 2304075	T-Oven 5

Comments:

Date/Time of Weigh: 2/2/2024 1113

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
BEB0037-BLK1	Blank	b	0.1194	1000	0.1193	0.1193	0.1	-1.00	-0.10	
BEB0037-BLK2		B2	0.1191	1000	0.1193		0.1	-1191.00	-119.10	
BEB0037-BS1	LCS	1	0.1192	100	0.1284	0.1285	1	92.00	92.00	
BEB0037-BS2		BS2	0.1191	100	0.1285		1	-1191.00	-1191.00	
BEB0037-BS3		L3	0.1197	100	0.1291		1	-1197.00	-1197.00	
BEB0037-DUP1	Duplicate WEA0829-01	dup	0.1188	400	0.1213		0.25	-1188.00	-297.00	
WEA0829-01	WW-3	829-1	0.12	400	0.1223		0.25	-1200.00	-300.00	
WEA0829-05	E-1 MS/MSD	829-5	0.119	300	0.1275		0.33333333	-1190.00	-396.67	

BEB0037

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Batch ID: BEB0037 Date: 2/1/2024 Time: 15:32 Initals: ARY

QC REQUIREMENTS:	Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120% Run a blank and lcs before and after every 20 samples, plus dup and ms/msd after 20 samples.						
TSS Reagents	**Std. #**	**Amount Spiked**	**Balance ID**	**Oven**	**Temp**	**Filters**	**Thermometer**
100ppm Cellulose TSS Soln.	2400560	100 ppm	Balance ID	Oven 5	105	Yakama 2304075	T-Oven 5

Comments:

Date/Time of Weigh: 2/2/2024 1113

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
BEB0037-BLK1	Blank	b	0.1194	1000	0.1193	0.1193	0.1	-1.00	-0.10	
BEB0037-BLK2		B2	0.1191	1000	0.1193		0.1	-1191.00	-119.10	
BEB0037-BS1	LCS	1	0.1192	100	0.1284	0.1285	1	92.00	92.00	
BEB0037-BS2		BS2	0.1191	100	0.1285		1	-1191.00	-1191.00	
BEB0037-BS3		L3	0.1197	100	0.1291		1	-1197.00	-1197.00	
BEB0037-DUP1	Duplicate WEA0829-01	dup	0.1188	400	0.1213		0.25	-1188.00	-297.00	
WEA0829-01	WW-3	829-1	0.12	400	0.1223		0.25	-1200.00	-300.00	
WEA0829-05	E-1 MS/MSD	829-5	0.119	300	0.1275		0.33333333	-1190.00	-396.67