



AECOS, Inc.

45-939 Kamehameha Hwy, Suite 104 • Kaneohe, HI 96744

Telephone: (808) 234-7770 • Fax: (808) 234-7775 • aecos@aecos.com

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

FILE No.:	1494
REPORT DATE:	04/23/2024
PAGE:	1 of 1

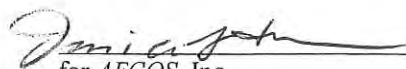
AECOS REPORT OF RESULTS

SAMPLE TYPE: water
DATE SAMPLED: 04/12/24
DATE/TIME RECEIVED: 04/12/24 @1648
TEMP. CONTROL: 4.8 °C
DATE/TIME ANALYZED: 04/12/24 @1713

AECOS LOG No.: 50233

SAMPLER: J. Hawkins
MATRIX: Water
ANALYST: R. Knapstein

SAMPLE ID ↓	ANALYTE (UNITS)	Enterococcus (MPN/100ml)	Dilution Factor (10 ml / 100 ml)	Number of large positive wells	Number of small positive wells
	METHOD →	ASTM D650399	---	---	---
	TIME SAMPLED ↓				
U-3/WW-4	0940	4400	10	49	24
D-8	0945	5500	10	49	28
D-2	1010	13,000	10	49	42
D-3	1025	24,000	10	49	47
D-7	1025	>24,000	10	49	48
D-4	1035	24,000	10	49	47
WW-3	1050	17,000	10	49	45
D-6	1100	14,000	10	49	43
U-2/WW-5	1200	9200	10	49	37
WW-6	0845	20,000	10	49	46
E-1	1050	17,000	10	49	45
E-1 dup	1100	17,000	10	49	45


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	[050233]

CLIENT: <i>staptec GS</i>	CONTACT: <i>Jess Hawkins</i>
ADDRESS: <i>737 Bishop st suite 2050</i>	PHONE No.: <i>808-754-0126</i>
<i>Honolulu, HI, 96813</i>	Purchase Order No.: _____

RUSH
 SEE REVERSE

SPECIAL INSTRUCTIONS

SAMPLED								PRESERVATION
	<input checked="" type="checkbox"/>	SAMPLE ID	DATE	TIME	SAMPLE TYPE	CONTAINER(S)	REQUESTED ANALYSES	
1	<input checked="" type="checkbox"/>	<i>U-3/WW-4</i>	<i>4/12/24</i>	<i>0940</i>	<i>Water</i>	<i>1</i> <i>IDEXX</i>	<i>enterococci</i>	
2	<input checked="" type="checkbox"/>	<i>D-8</i>		<i>0945</i>				
3	<input checked="" type="checkbox"/>	<i>D-2</i>		<i>1010</i>				
4	<input checked="" type="checkbox"/>	<i>D-3</i>		<i>1025</i>				
5	<input checked="" type="checkbox"/>	<i>D-7</i>		<i>1025</i>				
6	<input checked="" type="checkbox"/>	<i>D-4</i>		<i>1035</i>				
7	<input checked="" type="checkbox"/>	<i>WW-3</i>		<i>1050</i>				
8	<input checked="" type="checkbox"/>	<i>D-6</i>		<i>1100</i>				
9	<input checked="" type="checkbox"/>	<i>U-2/WW-5</i>		<i>1200</i>				
10	<input checked="" type="checkbox"/>	<i>WW-6</i>	<i>4/12/24</i>	<i>0845</i>				

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:	DATE
PRINT NAME <i>Jess Hawkins</i>	<i>4-12</i> <i>2024</i>
RELINQUISHED:	DATE
SIGNATURE <i>Jess Hawkins</i>	<i>4/12</i> <i>2024</i>
	TIME <i>448pm</i>

RECEIVED BY:	DATE
SIGNATURE	TIME
RELINQUISHED:	DATE
SIGNATURE OR INITIALS	TIME

RECEIVED FOR LABORATORY:	DATE
SIGNATURE	<i>4/12</i> <i>2024</i>
RELINQUISHED:	TIME
SIGNATURE OR INITIALS	<i>1148</i>
	DATE
	TIME

COMMENTS:

PRECAUTIONS:

DISPOSAL:

USE (BLACK) INK

T=4.8°C
(IR)
rvd on ice

RETURN SAMPLE TO CLIENT



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Tel: (808) 234-7770 Fax: 234-7775

CHAIN OF CUSTODY FORM

PROJECT FILE No.	
LOG NUMBER	[50233]

CLIENT: stantec GS ADDRESS: 737 Bishop St suite 3050 Honolulu, HI, 96813	CONTACT: Jess Hawkins PHONE No.: 808-754-0126 Purchase Order No.: []
--	---

RUSH
 SEE REVERSE

SPECIAL INSTRUCTIONS

SAMPLED									
	<input checked="" type="checkbox"/>	SAMPLE ID	DATE	TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
1	<input checked="" type="checkbox"/>	E-1	4/12/24	1050	water	1	IDEX X	Enterococci	
2	<input checked="" type="checkbox"/>	E-1 DUP	↓	1100	↓	↓	↓	↓	
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:	DATE
PRINT NAME Jess Hawkins	4-12-24
RELINQUISHED:	DATE
SIGNATURE [Signature]	TIME 4:48pm

RECEIVED BY:	DATE
SIGNATURE	TIME
RELINQUISHED:	DATE
SIGNATURE OR INITIALS	TIME

RECEIVED FOR LABORATORY:	DATE
SIGNATURE [Signature]	TIME 1:48
RELINQUISHED:	DATE
SIGNATURE OR INITIALS	TIME

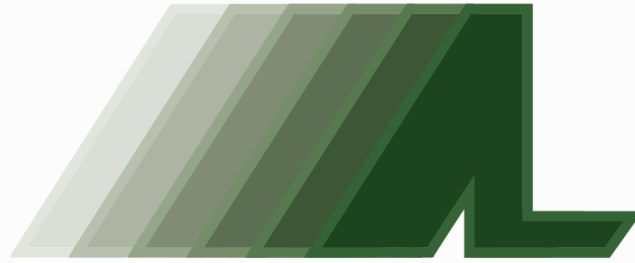
COMMENTS:

PRECAUTIONS:

DISPOSAL:

USE (BLACK) INK

RETURN SAMPLE TO CLIENT



ANATEK LABS

Analytical Results Report For:

Stantec-GS

Project Number:

ADC Water Quality Monitoring

Anatek Work Order:

WED0874

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
Address: 737 Bishop St., Ste. 3050
Honolulu, HI 96813
Attn: Benjamin Berridge

Work Order: WED0874
Project: ADC Water Quality Monitoring
Reported: 7/11/2024 09:23

Analytical Results Report

Sample Location: WW-3
Lab/Sample Number: WED0874-01 **Collect Date:** 04/12/24 10:50
Date Received: 04/18/24 09:21 **Collected By:**
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	18.0	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00554	mg/L	0.000140	0.00100	4/22/24 20:36	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:28	JLG	EPA 245.1	M2
Semivolatiles								
Atrazine	<0.0493	ug/L	0.0493	0.0985	5/24/24 22:20	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0493	0.0985	5/24/24 22:20	MAH	EPA 625.1	
Permethrin	<0.246	ug/L	0.246	0.493	5/24/24 22:20	MAH	EPA 625.1	

<i>Surrogate: Terphenyl-d14</i>	<i>98.9%</i>		<i>25-135</i>		<i>5/24/24 22:20</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 14:18	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 14:18	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 14:18	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 14:18	ARY	NWTPH-HCID	

<i>Surrogate: n-Hexacosane</i>	<i>66.6%</i>		<i>50-150</i>		<i>5/7/24 14:18</i>	<i>ARY</i>	<i>NWTPH-HCID</i>	

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Sample Location: WW-6
 Lab/Sample Number: WED0874-02 Collect Date: 04/12/24 09:45
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	1300	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00142	mg/L	0.000140	0.00100	4/22/24 20:38	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:31	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 15:14	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 15:14	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 15:14	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 15:14	ARY	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>38.5%</i>		<i>50-150</i>		<i>5/7/24 15:14</i>	<i>ARY</i>	<i>NWTPH-HCID</i>	<i>S12</i>

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Sample Location: E-1
 Lab/Sample Number: WED0874-03 Collect Date: 04/12/24 10:50
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	276	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0235	mg/L	0.000140	0.00100	4/22/24 20:41	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:33	JLG	EPA 245.1	M2
Semivolatiles								
Atrazine	<0.0495	ug/L	0.0495	0.0989	5/24/24 22:49	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0495	0.0989	5/24/24 22:49	MAH	EPA 625.1	
Permethrin	<0.247	ug/L	0.247	0.495	5/24/24 22:49	MAH	EPA 625.1	
<hr/>								
<i>Surrogate: Terphenyl-d14</i>	<i>90.0%</i>		<i>25-135</i>		<i>5/24/24 22:49</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 16:10	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 16:10	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 16:10	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 16:10	ARY	NWTPH-HCID	
<hr/>								
<i>Surrogate: n-Hexacosane</i>	<i>73.3%</i>		<i>50-150</i>		<i>5/7/24 16:10</i>	<i>ARY</i>	<i>NWTPH-HCID</i>	

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Sample Location: E-1 DUP
 Lab/Sample Number: WED0874-04 Collect Date: 04/12/24 11:00
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	358	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0193	mg/L	0.000140	0.00100	4/22/24 21:20	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:41	JLG	EPA 245.1	M2
Semivolatiles								
Atrazine	<0.522	ug/L	0.0522	0.104	5/24/24 23:16	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0522	0.104	5/24/24 23:16	MAH	EPA 625.1	
Permethrin	<0.261	ug/L	0.261	0.522	5/24/24 23:16	MAH	EPA 625.1	
<hr/>								
<i>Surrogate: Terphenyl-d14</i>	<i>83.8%</i>		<i>25-135</i>		<i>5/24/24 23:16</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 17:06	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 17:06	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 17:06	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 17:06	ARY	NWTPH-HCID	
<hr/>								
<i>Surrogate: n-Hexacosane</i>	<i>53.6%</i>		<i>50-150</i>		<i>5/7/24 17:06</i>	<i>ARY</i>	<i>NWTPH-HCID</i>	

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Sample Location: D-2
 Lab/Sample Number: WED0874-06 Collect Date: 04/12/24 10:10
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	11.6	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0507	mg/L	0.000140	0.00100	4/22/24 21:22	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:43	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 18:03	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 18:03	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 18:03	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 18:03	ARY	NWTPH-HCID	
Surrogate: n-Hexacosane	38.9%		50-150		5/7/24 18:03	ARY	NWTPH-HCID	S12

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Sample Location: D-3
Lab/Sample Number: WED0874-07 Collect Date: 04/12/24 10:25
Date Received: 04/18/24 09:21 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	44.0	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00884	mg/L	0.000140	0.00100	4/22/24 20:48	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:46	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 18:59	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 18:59	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 18:59	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 18:59	ARY	NWTPH-HCID	
<hr/>								
Surrogate: n-Hexacosane	52.0%		50-150		5/7/24 18:59	ARY	NWTPH-HCID	

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Sample Location: D-4
 Lab/Sample Number: WED0874-08 Collect Date: 04/12/24 10:35
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	307	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00198	mg/L	0.000140	0.00100	4/22/24 20:50	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:49	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 19:54	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 19:54	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 19:54	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 19:54	ARY	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>34.3%</i>		<i>50-150</i>		<i>5/7/24 19:54</i>	<i>ARY</i>	<i>NWTPH-HCID</i>	<i>S12</i>

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Sample Location: D-6
 Lab/Sample Number: WED0874-09 Collect Date: 04/12/24 11:00
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	143	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00378	mg/L	0.000140	0.00100	4/22/24 20:52	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:51	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 20:50	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 20:50	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 20:50	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 20:50	ARY	NWTPH-HCID	
Surrogate: n-Hexacosane	39.0%		50-150		5/7/24 20:50	ARY	NWTPH-HCID	S12

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Sample Location: D-7
 Lab/Sample Number: WED0874-10 Collect Date: 04/12/24 10:25
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	640	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00449	mg/L	0.000140	0.00100	4/22/24 20:55	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 15:54	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/7/24 21:45	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/7/24 21:45	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/7/24 21:45	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/7/24 21:45	ARY	NWTPH-HCID	
Surrogate: n-Hexacosane	38.6%		50-150		5/7/24 21:45	ARY	NWTPH-HCID	S12

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Sample Location: D-8
Lab/Sample Number: WED0874-11 Collect Date: 04/12/24 09:45
Date Received: 04/18/24 09:21 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	11.7	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00326	mg/L	0.000140	0.00100	4/22/24 20:57	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 16:01	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/8/24 4:08	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/8/24 4:08	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/8/24 4:08	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/8/24 4:08	ARY	NWTPH-HCID	
<hr/>								
Surrogate: n-Hexacosane	55.9%		50-150		5/8/24 4:08	ARY	NWTPH-HCID	

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Sample Location: U-2/WW-5
 Lab/Sample Number: WED0874-12 Collect Date: 04/12/24 12:00
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	800	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000140	mg/L	0.000140	0.00100	4/22/24 21:11	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 16:04	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	5/8/24 5:02	ARY	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	5/8/24 5:02	ARY	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	5/8/24 5:02	ARY	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	5/8/24 5:02	ARY	NWTPH-HCID	
Surrogate: n-Hexacosane	43.3%		50-150		5/8/24 5:02	ARY	NWTPH-HCID	S12

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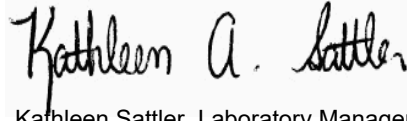
Sample Location: U-3/WW-4
 Lab/Sample Number: WED0874-13 Collect Date: 04/12/24 09:40
 Date Received: 04/18/24 09:21 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	42.0	mg/L			4/18/24 17:04	DKB	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000140	mg/L	0.000140	0.00100	4/22/24 21:18	JLG	EPA 200.8	
Mercury								
Mercury	<0.0710	ug/L	0.0710	0.100	4/19/24 16:06	JLG	EPA 245.1	M2
Semivolatiles								
Diesel	<0.0520	mg/L	0.0520	0.0800	6/21/24 15:21	ARY	NWTPH-HCID	C9
Gasoline	<0.160	mg/L	0.160	0.400	6/21/24 15:21	ARY	NWTPH-HCID	C9
Lube Oil	<0.0460	mg/L	0.0460	0.0800	6/21/24 15:21	ARY	NWTPH-HCID	C9
Mineral Oil	<0.160	mg/L	0.160	0.400	6/21/24 15:21	ARY	NWTPH-HCID	C9
<i>Surrogate: n-Hexacosane</i>	<i>88.3%</i>		<i>50-150</i>		<i>6/21/24 15:21</i>	<i>ARY</i>	<i>NWTPH-HCID</i>	<i>C9</i>

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Authorized Signature,



Kathleen Sattler, Laboratory Manager

C9	Initial analysis within holding time. Confirmatory analysis was past holding time. Original result confirmed
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable. Potential matrix effect.
R12	Matrix spike duplicate recovery was below method acceptance limits; the associated blank spike recovery and matrix spike recovery was acceptable.
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.

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

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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: BED0801 - W Filtration										
Blank (BED0801-BLK1)										
TSS	0.00			mg/L						
					Prepared: 04/18/24 16:50- Analyzed: 04/18/24 17:04					
Blank (BED0801-BLK2)										
TSS	0.100			mg/L						
					Prepared: 04/18/24 16:50- Analyzed: 04/18/24 17:04					
LCS (BED0801-BS1)										
TSS	93.0			mg/L	100		93.0	90-110		
					Prepared: 04/18/24 16:50- Analyzed: 04/18/24 17:04					
Duplicate (BED0801-DUP1)										
TSS	276			mg/L		276			0.00	20
					Prepared: 04/18/24 16:50- Analyzed: 04/18/24 17:04					
Matrix Spike (BED0801-MS1)										
TSS	372			mg/L	100	276	96.0	80-120		
					Prepared: 04/18/24 16:50- Analyzed: 04/18/24 17:04					
Matrix Spike Dup (BED0801-MSD1)										
TSS	366			mg/L	100	276	90.0	80-120	1.63	20
					Prepared: 04/18/24 16:50- Analyzed: 04/18/24 17:04					

Quality Control Data

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BED0876 - W 3010 Digest										
Blank (BED0876-BLK1)										
Arsenic	ND		0.00100	mg/L						
					Prepared: 04/22/24 09:51- Analyzed: 04/22/24 20:29					
LCS (BED0876-BS1)										
Arsenic	0.0509		0.00100	mg/L	0.0500		102	85-115		
					Prepared: 04/22/24 09:51- Analyzed: 04/22/24 20:34					
Matrix Spike (BED0876-MS1)										
Arsenic	0.0766		0.00100	mg/L	0.0500	0.0235	106	70-130		
					Prepared: 04/22/24 09:51- Analyzed: 04/22/24 20:43					
Matrix Spike (BED0876-MS2)										
Arsenic	0.0400		0.00100	mg/L	0.0500	<0.000140	80.1	70-130		
					Prepared: 04/22/24 09:51- Analyzed: 04/22/24 21:13					
Matrix Spike Dup (BED0876-MSD1)										
Arsenic	0.0743		0.00100	mg/L	0.0500	0.0235	102	70-130	3.09	20
					Prepared: 04/22/24 09:51- Analyzed: 04/22/24 20:45					
Matrix Spike Dup (BED0876-MSD2)										
Arsenic	0.0373		0.00100	mg/L	0.0500	<0.000140	74.6	70-130	7.02	20
					Prepared: 04/22/24 09:51- Analyzed: 04/22/24 21:15					

Quality Control Data

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Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BED0830 - W 245.1 Digest										
Blank (BED0830-BLK1)										
Mercury	ND		0.100	ug/L						
					Prepared: 04/19/24 10:33- Analyzed: 04/19/24 15:23					
LCS (BED0830-BS1)										
Mercury	5.55		0.100	ug/L	5.60		99.1	85-115		
					Prepared: 04/19/24 10:33- Analyzed: 04/19/24 15:26					
Matrix Spike (BED0830-MS1)										
			Source: WED0874-03		Prepared: 04/19/24 10:33- Analyzed: 04/19/24 15:36					
Mercury	3.88	M2	0.100	ug/L	5.60	<0.0710	69.3	70-130		
					Prepared: 04/19/24 10:33- Analyzed: 04/19/24 16:09					
Matrix Spike (BED0830-MS2)										
			Source: WED0874-13		Prepared: 04/19/24 10:33- Analyzed: 04/19/24 16:09					
Mercury	3.16	M2	0.100	ug/L	5.60	<0.0710	56.4	70-130		
					Prepared: 04/19/24 10:33- Analyzed: 04/19/24 15:38					
Matrix Spike Dup (BED0830-MSD1)										
			Source: WED0874-03		Prepared: 04/19/24 10:33- Analyzed: 04/19/24 15:38					
Mercury	2.52	M2, R12	0.100	ug/L	5.60	<0.0710	45.0	70-130	42.5	20
					Prepared: 04/19/24 10:33- Analyzed: 04/19/24 16:11					
Matrix Spike Dup (BED0830-MSD2)										
			Source: WED0874-13		Prepared: 04/19/24 10:33- Analyzed: 04/19/24 16:11					
Mercury	3.43	M2	0.100	ug/L	5.60	<0.0710	61.2	70-130	8.19	20

Quality Control Data (Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BED1016 - W TPH-Dx										
Blank (BED1016-BLK1)										
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						
<i>Surrogate: n-Hexacosane</i>			0.120	mg/L	0.200		59.9	50-150		
					Prepared: 04/24/24 17:39- Analyzed: 05/07/24 07:51					
LCS (BED1016-BS1)										
Diesel	0.776		0.0800	mg/L	1.00		77.6	70-130		
<i>Surrogate: n-Hexacosane</i>			0.176	mg/L	0.200		87.7	50-150		
					Prepared: 04/24/24 17:39- Analyzed: 05/07/24 10:35					
LCS Dup (BED1016-BSD1)										
Diesel	0.915		0.0800	mg/L	1.00		91.5	70-130	16.4	20
<i>Surrogate: n-Hexacosane</i>			0.145	mg/L	0.200		72.3	50-150		
					Prepared: 04/24/24 17:39- Analyzed: 05/07/24 11:31					
Duplicate (BED1016-DUP1)										
			Source: WED0874-03		Prepared: 04/24/24 17:39- Analyzed: 05/07/24 11:31					
Lube Oil	ND		0.0800	mg/L		<0.0460				200
Mineral Oil	ND		0.400	mg/L		<0.160				200
Gasoline	ND		0.400	mg/L		<0.160				200
Diesel	ND		0.0800	mg/L		<0.0520				200
<i>Surrogate: n-Hexacosane</i>			S12	0.0608	mg/L	0.200		30.3	50-150	
					Prepared: 04/24/24 17:39- Analyzed: 05/07/24 12:26					
Matrix Spike (BED1016-MS1)										
			Source: WED0874-02		Prepared: 04/24/24 17:39- Analyzed: 05/07/24 12:26					
Diesel	0.796		0.0800	mg/L	1.00	<0.0520	79.6	70-130		
<i>Surrogate: n-Hexacosane</i>			0.126	mg/L	0.200		62.8	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: BEE0703 - SVOC Water										
Blank (BEE0703-BLK1)										
					Prepared: 04/19/24 00:21- Analyzed: 05/24/24 21:53					
Permethrin	ND		0.500	ug/L						
Atrazine	ND		0.100	ug/L						
Metolachlor	ND		0.100	ug/L						
<i>Surrogate: Terphenyl-d14</i>			24.5	ug/L	25.0		98.1	25-135		
LCS (BEE0703-BS1)										
					Prepared: 04/19/24 00:21- Analyzed: 05/24/24 20:29					
Atrazine	4.92		0.100	ug/L	5.00		98.4	60-125		
Metolachlor	5.14		0.100	ug/L	5.00		103	60-125		
<i>Surrogate: Terphenyl-d14</i>			25.2	ug/L	25.0		101	25-135		
Matrix Spike (BEE0703-MS1)										
			Source: WED0874-03			Prepared: 04/19/24 00:21- Analyzed: 05/24/24 20:57				
Metolachlor	5.34		0.100	ug/L	5.00	ND	107	40-140		
Atrazine	4.84		0.100	ug/L	5.00	<0.0495	96.8	40-140		
<i>Surrogate: Terphenyl-d14</i>			23.4	ug/L	25.0		93.5	60-130		
Matrix Spike Dup (BEE0703-MSD1)										
			Source: WED0874-03			Prepared: 04/19/24 00:21- Analyzed: 05/24/24 21:25				
Atrazine	4.91		0.100	ug/L	5.00	<0.0495	98.2	40-140	1.44	40
Metolachlor	5.44		0.100	ug/L	5.00	ND	109	40-140	1.86	40
<i>Surrogate: Terphenyl-d14</i>			24.5	ug/L	25.0		98.0	60-130		



Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In # _____

Company Name: Stantec GS (form. Cardno-GS)				Project Manager: Benjamin Berridge				Turn Around Time & Reporting									
Address: 737 Bishop St Suite 3050				Project Name & #: ADC Water Quality Monitoring				Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp									
City: Honolulu		State: HI		Zip: 96813		Email Address: benjamin.berridge@stantecgs.com				<input type="checkbox"/> Normal <input type="checkbox"/> Next Day* <input type="checkbox"/> 2nd Day* <input type="checkbox"/> Other*		<input type="checkbox"/> Phone <input type="checkbox"/> Mail <input type="checkbox"/> Fax <input type="checkbox"/> Email					
Phone: (808) 476-0067				Purchase Order #:				*All rush order requests must be prior approved.									
Fax:				Sampler Name & phone:													
Provide Sample Description				List Analyses Requested				Note Special Instructions/Comments									
Storm water samples				Preservative:				**Please do not conduct TPH GRO analysis until Cardno confirms it should be run.									
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	TSS EPA 160.2	TPH HClD - SW 846 MOD 8015					**TPH GRO SW846/8015	Arsenic EPA 200.8	Mercury EPA 245.1	Pesticides-EPA 625 SM Permethrin, Atrazine & Metolachlor	Glyphosate EPA 547	Paraquat Dichloride EPA
	WW-3	4-12-2024 / 10:50 HST	Water	7		X	X					X	X	X	X		X
	WW-6	4-12-2024 / 09:45 HST	Water	5		X	X					X	X	X			
	E-1	4-12-2024 / 10:50 HST	Water	7		X	X					X	X	X	X		X
	E-1 DUP	4-12-2024 / 11:00 HST	Water	7		X	X					X	X	X	X		X
	E-1 MS/MSD	4-12-2024 / 11:10 HST	Water	7		X	X					X	X	X	X		X
	D-2	4-12-2024 / 10:10 HST	Water	5		X	X					X	X	X			
	D-3	4-12-2024 / 10:25 HST	Water	5		X	X					X	X	X			
	D-4	4-12-2024 / 10:35 HST	Water	5		X	X					X	X	X			
	D-6	4-12-2024 / 11:00 HST	Water	5		X	X					X	X	X			
	D-7	4-12-2024 / 10:25 HST	Water	5		X	X					X	X	X			
	D-8	4-12-2024 / 09:45 HST	Water	5		X	X					X	X	X			
	U-2/WW-5	4-12-2024 / 12:00 HST	Water	5		X	X					X	X	X			
	U-3/WW-4	4-12-2024 / 09:40 HST	Water	5		X	X					X	X	X			
		Printed Name	Signature	Company		Date	Time		Inspection Checklist Received Intact? Y N Labels & Chains Agree? Y N Containers Sealed? Y N VOC Head Space? Y N <i>See Attached</i> Temperature (°C): _____ Preservative: _____ Date & Time: _____ Inspected By: _____								
Relinquished by	Angelica Demes		Stantec	4-15-24	14:00												
Received by	Kathleen A. Battle		Anatek Labs	4-17-24	1100												
Relinquished by																	
Received by																	
Relinquished by																	
Received by																	



Anatek Labs, Inc.

Sample Receipt and Preservation Form

WED0874



Due: 05/02/24

Client Name: Stantec Project: _____

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 3 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): _____ Cooler Temp Corrected (°C): _____ Thermometer Used: IR#14

Cooler 1 2.2 Cooler 2 0.4 Cooler 3 2.0

Comments:

Samples Received Intact? Yes No N/A
 Chain of Custody Present? Yes No N/A
 Samples Received Within Hold Time? Yes No N/A
 Samples Properly Preserved? Yes No N/A
 VOC Vials Free of Headspace (<6mm)? Yes No N/A
 VOC Trip Blanks Present? Yes No N/A
 Labels and Chains Agree? Yes No N/A
 Total Number of Sample Bottles Received: _____

Chain of Custody Fully Completed? Yes No N/A
 Correct Containers Received? Yes No N/A
 Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

G1000mL HCl 2303484
G441mL HCl 59072 pH <2 2102558
P1000mL unpreserved
P250 mL unpreserved

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: Kathleen A. Sattler Date/Time: 4-18-2024

Starting sequence Fri May 24 16:44:03 2024

Instrument Name: MSD4

Sequence File: T:\DATA1\MSD4\SEQUENCES\2024\052424C.S

Comment: CARDNO 625

Operator: MAH

Data Path: T:\DATA1\MSD4\2024\MAY\25C\

Method Path: C:\MSDCHEM\1\METHODS\

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	1	00101001	SVUCT1	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	BEE0703-BS1
10) Sample	12	01201010	CARDSIM	BEE0703-MS1
11) Sample	13	01301011	CARDSIM	BEE0703-MSD1
12) Sample	14	01401012	CARDSIM	BEE0703-BLK1
13) Sample	15	01501013	CARDSIM	WED0874-01
14) Sample	16	01601014	CARDSIM	WED0874-03
15) Sample	17	01701015	CARDSIM	WED0874-04

Sequence completed Fri May 24 23:37:08 2024

1) Sample

T:\DATA1\MSD4\2024\MAY\25C\2024 May 24 1644 Quality Log.LOG

T:\DATA1\MSD4\2024\MAY\25C\2024 May 24 1644 Sequence Log .LOG

4) Sample

5) Sample

6) Sample

7) Sample

8) Sample

9) Sample

10) Sample

11) Sample

12) Sample

13) Sample

14) Sample

15) Sample

16) Sample

17) Sample

Sequence completed

1) Sample

T:\DATA1\MSD4\2024\MAY\25C\2024 May 24 1644 Quality Log.LOG

T:\DATA1\MSD4\2024\MAY\25C\2024 May 24 1644 Sequence Log .LOG

4) Sample

5) Sample

6) Sample

7) Sample

8) Sample

9) Sample

10) Sample

11) Sample

12) Sample



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

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 MeCl₂ (2301678).

PREPARATION BENCH SHEET

Organics

Organics

BEE0703

BEE0703

Matrix: Water

Prepared using: SVOC - SVOC Water

Prepared using: SVOC - SVOC Water

Prepared using: SVOC - SVOC Water

Analysis SVOC 625 MISC	Spiking Solution(s) 2400673 Cardno Spk 100	Surrogate Solution(s) 2301428 CLP Acid Surr 2000 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	BEE0703-BLK1	Blank			4/19/24 0:21 MAH	1000	1		25	
QC	BEE0703-BS1	LCS			4/19/24 0:21 MAH	1000	1	50	25	
QC	BEE0703-MS1	Matrix Spike [WED0874-03]			4/19/24 0:21 MAH	1000	1	50	25	
QC	BEE0703-MSD1	Matrix Spike Dup [WED0874-03]			4/19/24 0:21 MAH	1000	1	50	25	
SVOC 625 MISC	WED0874-01	WW-3	04/30/2024	04/19/2024	4/19/24 0:21 MAH	1015	1		25	
SVOC 625 MISC	WED0874-03	E-1	04/30/2024	04/19/2024	4/19/24 0:21 MAH	1011	1		25	
SVOC 625 MISC	WED0874-04	E-1 DUP	04/30/2024	04/19/2024	4/19/24 0:21 MAH	958	1		25	

Reagents		
Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2300314	H2SO4	62089
2400200	CLP I.S. Spike 2000	061422

Batch Comments:

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

MAH

Analyst: _____ Date: _____

5-24-24

Run Date: _____ Date: _____

Data Path : T:\Data1\MSD4\2024\MAY\25C\
Data File : 00101001.D
Acq On : 24 May 2024 4:49 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : T:\Data1\MSD4\METHODS\2024\BNA-0517.M
Title : EPA 8270D / EPA 625.1 - MSD4
Last Update : Tue May 21 14:59:10 2024

AutoFind: Scans 1915, 1916, 1917; Background Corrected with Scan 1901

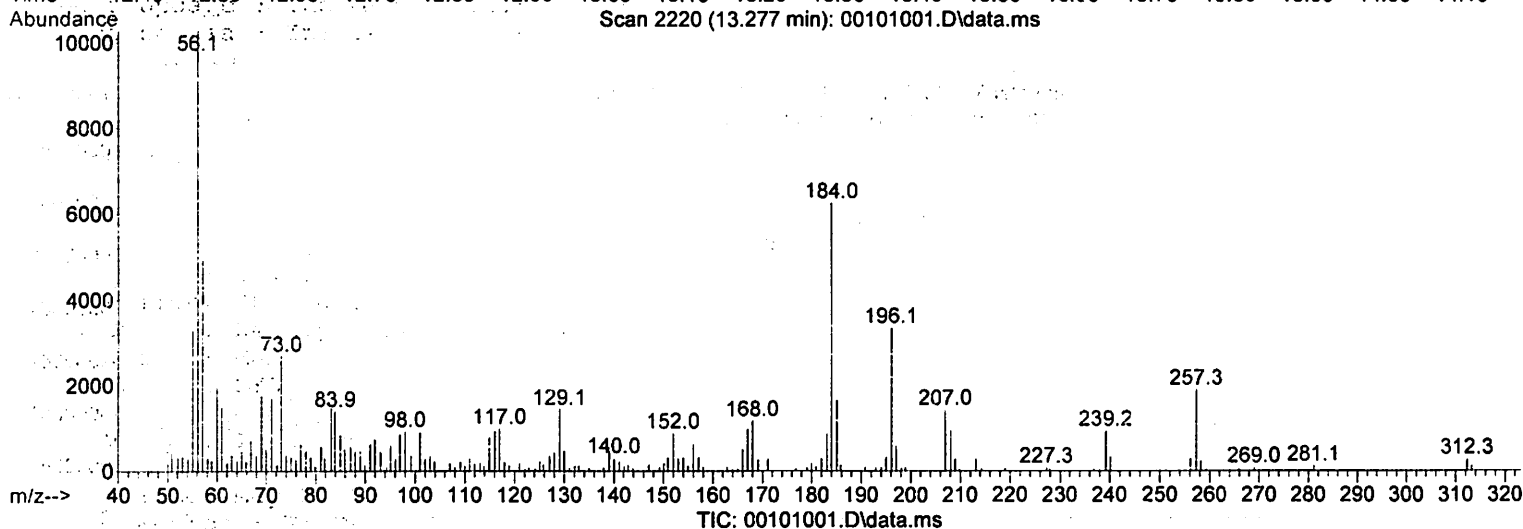
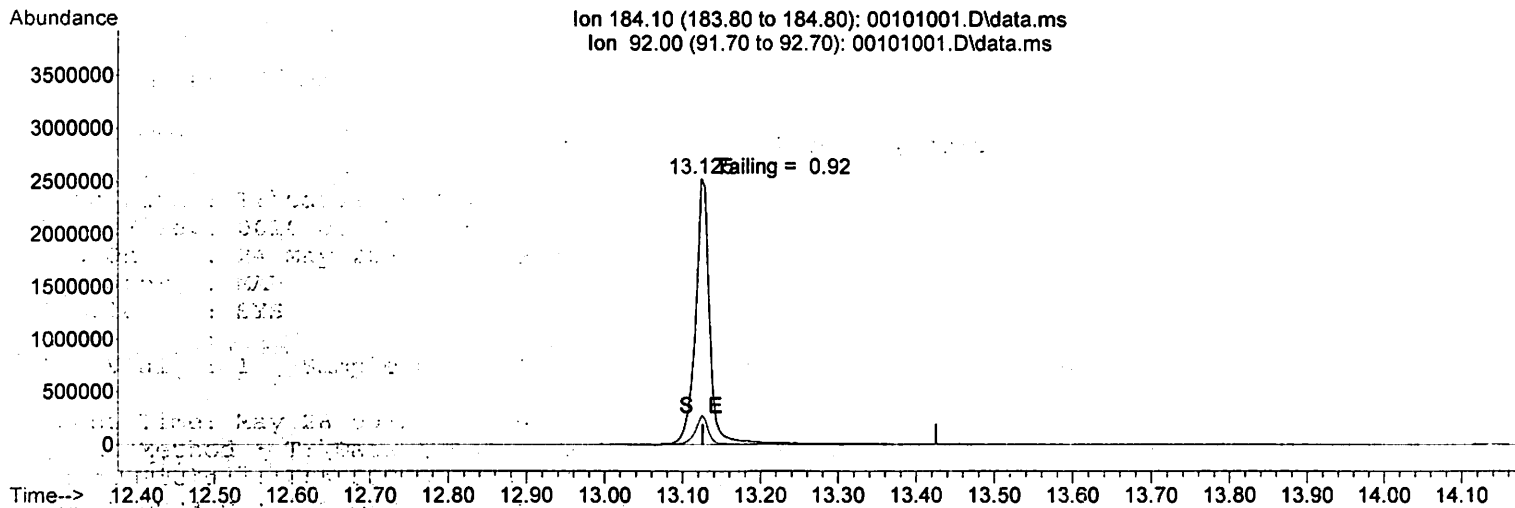
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.9	317147	PASS
68	69	0.00	2	1.5	5209	PASS
70	69	0.00	2	0.5	1621	PASS
127	198	10	80	51.5	467691	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	908629	PASS
199	198	5	9	6.8	61467	PASS
275	198	10	60	27.1	246549	PASS
365	198	1	100	3.6	32757	PASS
441	443	0.01	150	76.0	133387	PASS
442	198	30	200	100.4	912597	PASS
443	442	15	24	19.2	175488	PASS

BNA-0517.M Tue May 28 09:22:31 2024

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 00101001.D
 Acq On : 24 May 2024 4:49 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:23:31 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\BNA-0517.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 QLast Update : Tue May 21 14:59:10 2024
 Response via : Initial Calibration



(74) Benzidine

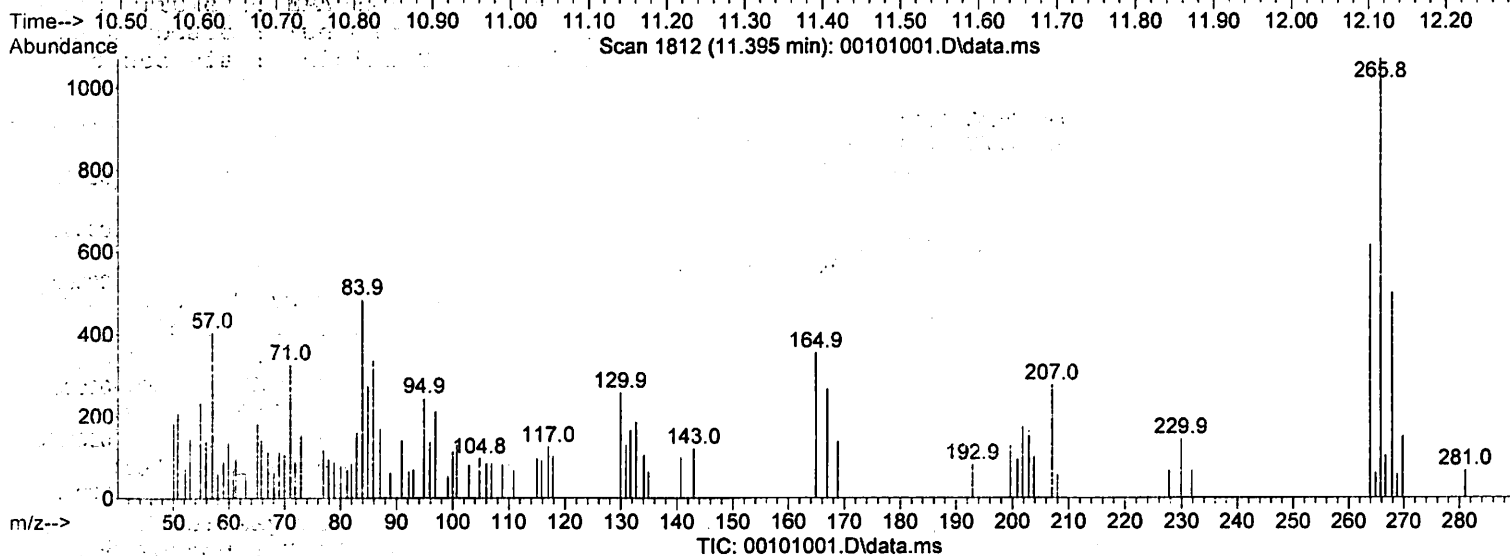
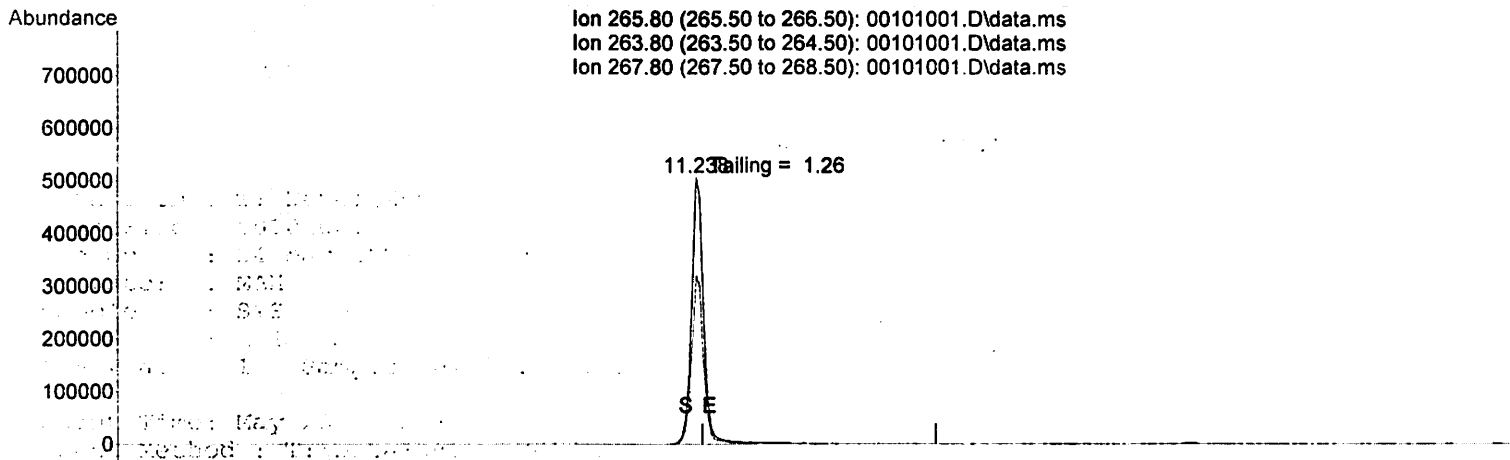
13.276min (-13.276) 0.00 ug/mL

Ion	Exp%	Act%
184.10	100.00	0.00
92.00	8.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\Data\MSD4\2024\MAY\25C\
Data File : 00101001.D
Acq On : 24 May 2024 4:49 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:23:31 2024
Quant Method : T:\Data\MSD4\METHODS\2024\BNA-0517.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Tue May 21 14:59:10 2024
Response via : Initial Calibration



(68) Pentachlorophenol

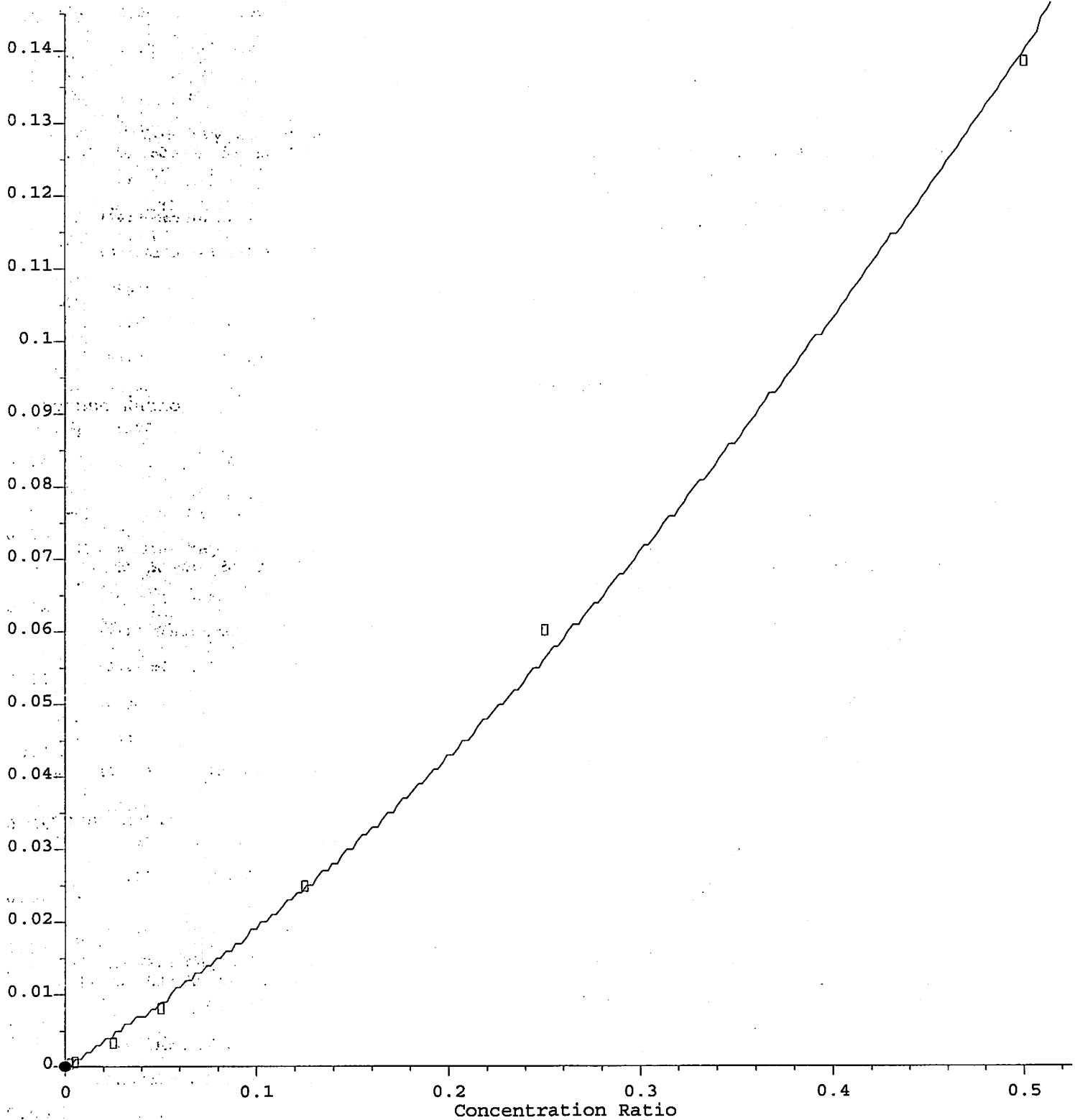
11.396min (-11.396) 0.00 ug/mL

response 0

Ion	Exp%	Act%
265.80	100.00	0.00
263.80	62.60	0.00#
267.80	63.30	0.00#
0.00	0.00	0.00

Atrazine

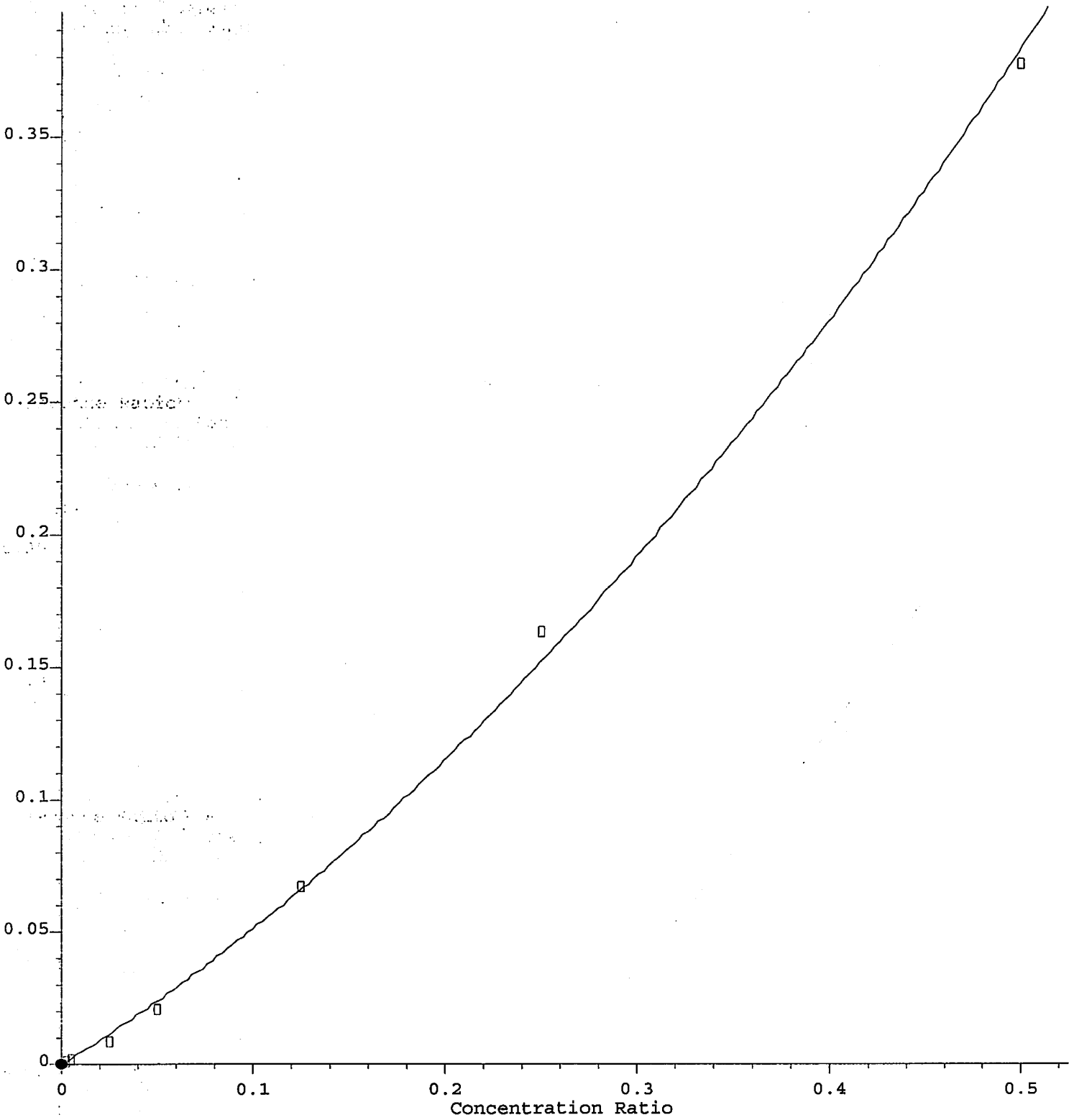
Response Ratio



R = 2.26e-001 A*A + 1.69e-001 A + 0.00e+000
Coef of Det (r^2) = 0.998 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
Calibration Table Last Updated: Tue May 28 09:35:30 2024

Metolachlor

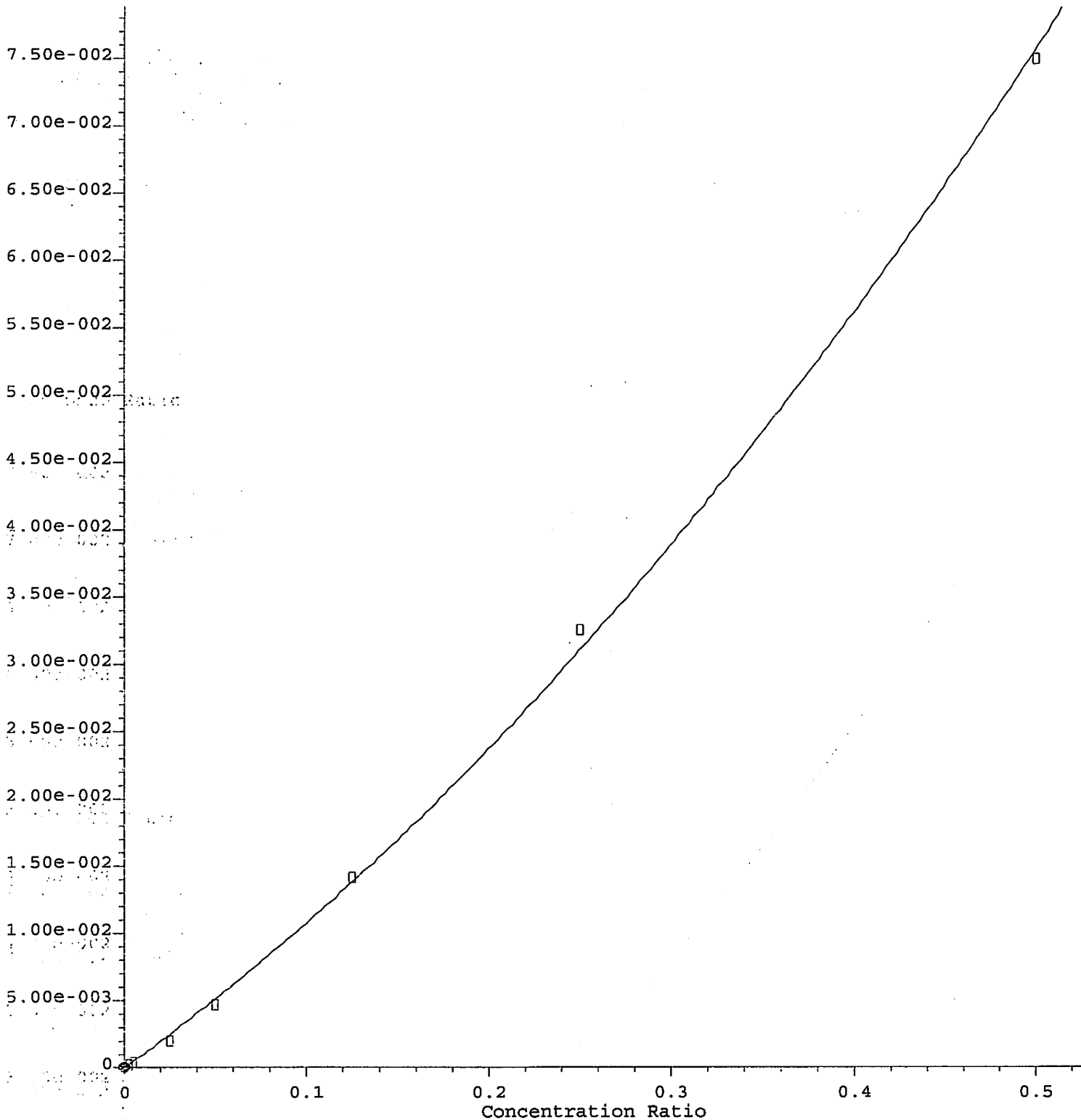
Response Ratio



R = 6.39e-001 A*A + 4.49e-001 A + 0.00e+000
Coef of Det (r^2) = 0.998 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
Calibration Table Last Updated: Tue May 28 09:35:30 2024

Chlorpyrifos

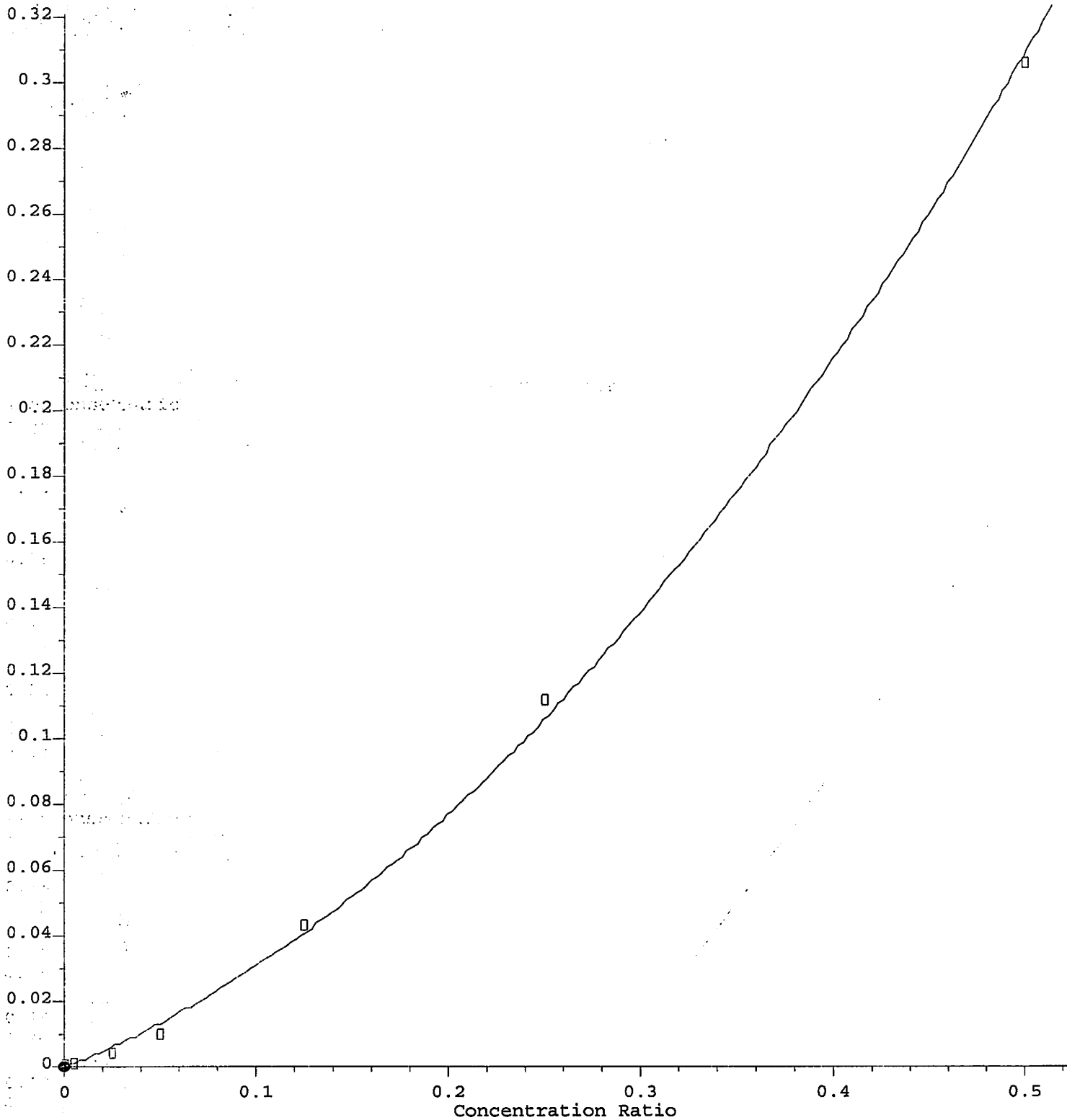
Response Ratio



R = 1.11e-001 A*A + 9.66e-002 A + 0.00e+000
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
Calibration Table Last Updated: Tue May 28 09:35:30 2024

Permerthins

Response Ratio



R = 7.80e-001 A*A + 2.29e-001 A + 0.00e+000
Coef of Det (r^2) = 0.997 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
Calibration Table Last Updated: Tue May 28 09:35:30 2024

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 01101009.D
 Acq On : 24 May 2024 8:29 pm
 Operator : MAH
 Sample : BEE0703-BS1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 09:39:00 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue May 28 09:38:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.666	164	60001362	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.685	240	24484414	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.437	244	38523496	25.18	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	100.72%	
Target Compounds						
2) Atrazine	11.160	200	3312035	4.92	ug/mL	97
3) Metolachlor	12.344	162	9458320	5.14	ug/mL	99
4) Chlorpyrifos	12.353	197	1827341	4.92	ug/mL	100
7) Permerthins	15.504	183	2388028m	4.72	ug/mL	

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

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 01201010.D
 Acq On : 24 May 2024 8:57 pm
 Operator : MAH
 Sample : BEE0703-MS1
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 09:39:56 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue May 28 09:38:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.667	164	79077724	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.686	240	32016535	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.438	244	46752273	23.37	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	93.48%	
Target Compounds						
						Qvalue
2) Atrazine	11.162	200	4277118	4.84	ug/mL	98
3) Metolachlor	12.345	162	13097470	5.34	ug/mL	99
4) Chlorpyrifos	12.354	197	2330709	4.79	ug/mL	99
7) Permethrins	15.504	183	3848604m	5.44	ug/mL	

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

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 01301011.D
 Acq On : 24 May 2024 9:25 pm
 Operator : MAH
 Sample : BEE0703-MSD1
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 09:41:29 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue May 28 09:38:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.667	164	81871341	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.685	240	31848675	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.437	244	48749723	24.49	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	97.96%	
Target Compounds						
						Qvalue
2) Atrazine	11.162	200	4507848	4.91	ug/mL	97
3) Metolachlor	12.344	162	13866969	5.44	ug/mL	100
4) Chlorpyrifos	12.353	197	2472159	4.89	ug/mL	100
7) Permethrins	15.506	183	2886866	4.49	ug/mL#	69

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

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 01401012.D
 Acq On : 24 May 2024 9:53 pm
 Operator : MAH
 Sample : BEE0703-BLK1
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 09:42:44 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue May 28 09:38:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.667	164	74111396	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.685	240	26978156	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.437	244	41339041	24.52	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	98.08%	

Target Compounds Qvalue

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

Time: May 28 09:43:02 2024
 Method: T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Title: EPA 8270D - GC MSD4
 Update: Tue May 28 09:38:31 2024
 Response via: Initial Calibration

Internal Standards
 1) Acenaphthene-d10
 5) Chrysene-d12
 System Monitoring Compounds
 6) Terphenyl-d14
 Spiked Amount: 25.000
 Recovery: 98.08%

Target Compounds Qvalue

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

Time: May 28 09:43:02 2024
 Method: T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Title: EPA 8270D - GC MSD4
 Update: Tue May 28 09:38:31 2024
 Response via: Initial Calibration

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 01501013.D
 Acq On : 24 May 2024 10:20 pm
 Operator : MAH
 Sample : WED0874-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 09:43:14 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue May 28 09:38:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.666	164	62347946	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.684	240	20150160	20.00	ug/mL	0.00

System Monitoring Compounds

6) Terphenyl-d14	13.437	244	31129267	24.72	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	98.88%	

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 01601014.D
 Acq On : 24 May 2024 10:49 pm
 Operator : MAH
 Sample : WED0874-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 09:43:53 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue May 28 09:38:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.666	164	68022757	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.685	240	27049878	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.437	244	38051837	22.51	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	90.04%	

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2024\MAY\25C\
 Data File : 01701015.D
 Acq On : 24 May 2024 11:16 pm
 Operator : MAH
 Sample : WED0874-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 28 09:44:49 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-0524.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue May 28 09:38:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.665	164	64554837	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.685	240	28677406	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.437	244	37546190	20.95	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	83.80%	

Target Compounds Qvalue

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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10002.D Vial: 1
 Acq On : 06 May 2024 16:19 Operator: ARY
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:19 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

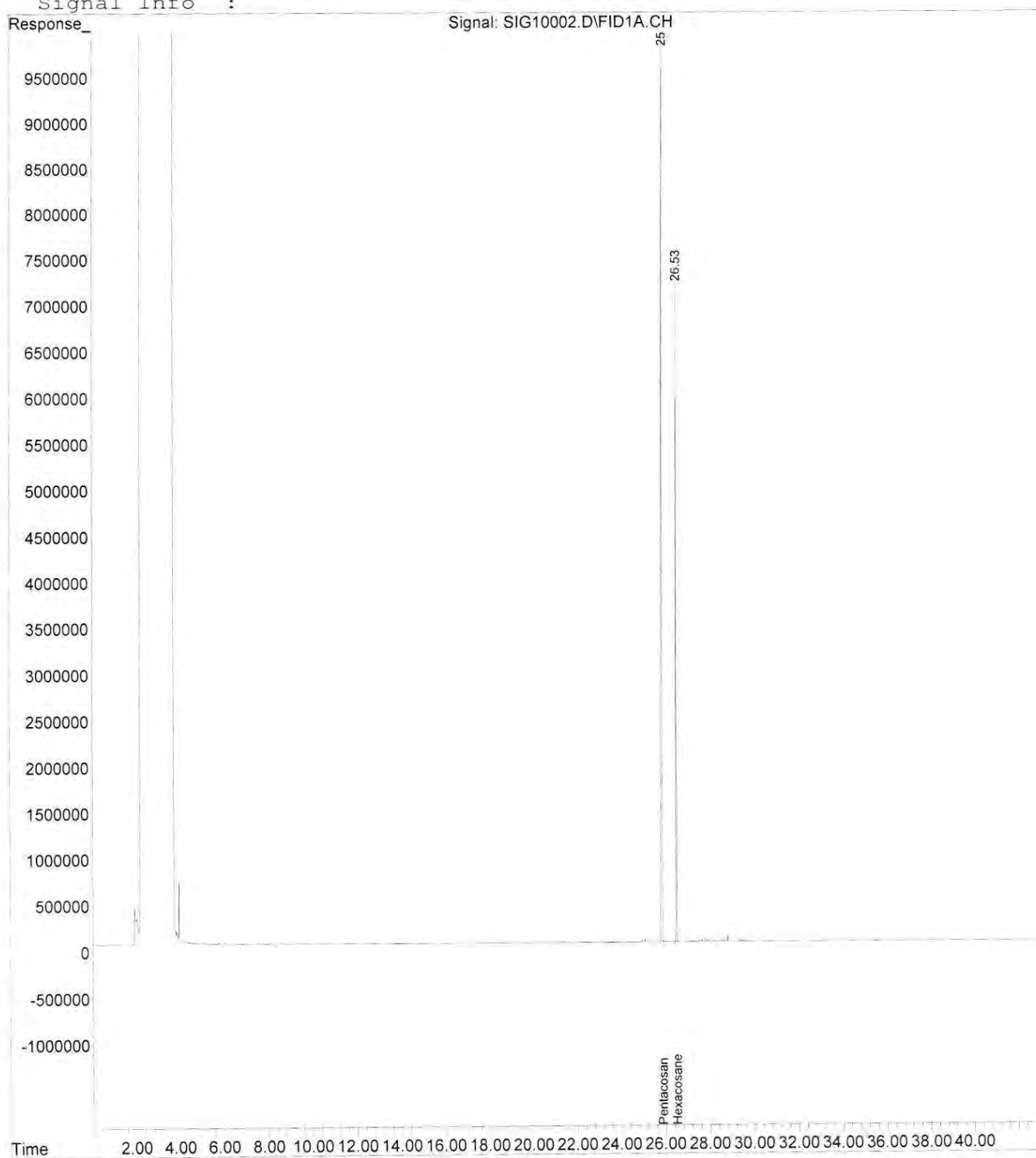
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	241120984	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.52	123784923	44.755 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 89.51%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10002.D Vial: 1
Acq On : 06 May 2024 16:19 Operator: ARY
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 7 7:46 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10003.D Vial: 2
 Acq On : 06 May 2024 17:15 Operator: ARY
 Sample : DX 500 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:20 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

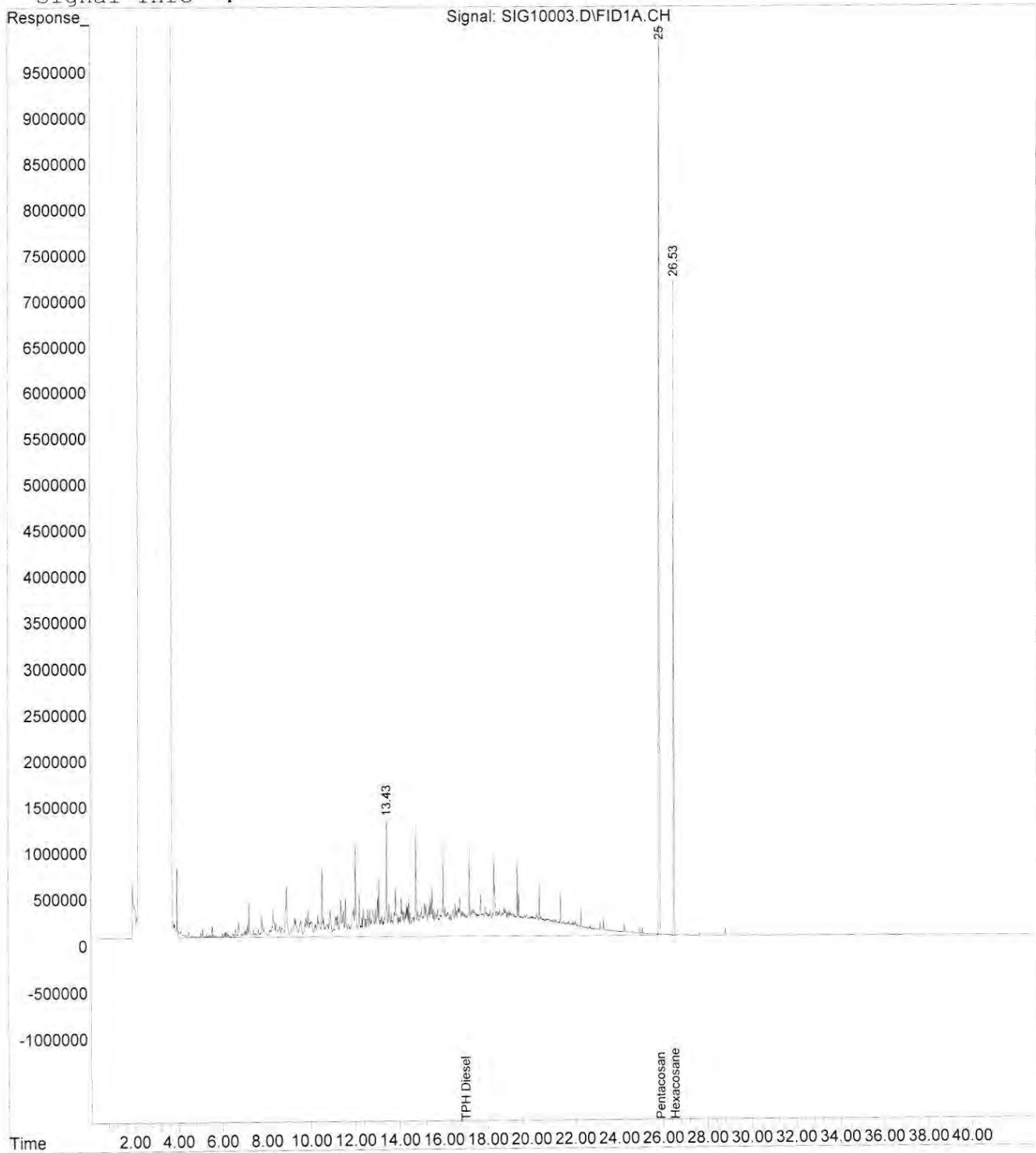
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	241434221	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	129477475	46.752 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 93.50%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	1891380637	548.623 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10003.D Vial: 2
Acq On : 06 May 2024 17:15 Operator: ARY
Sample : DX 500 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 13:46 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10004.D Vial: 3
 Acq On : 06 May 2024 18:11 Operator: ARY
 Sample : LO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:21 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

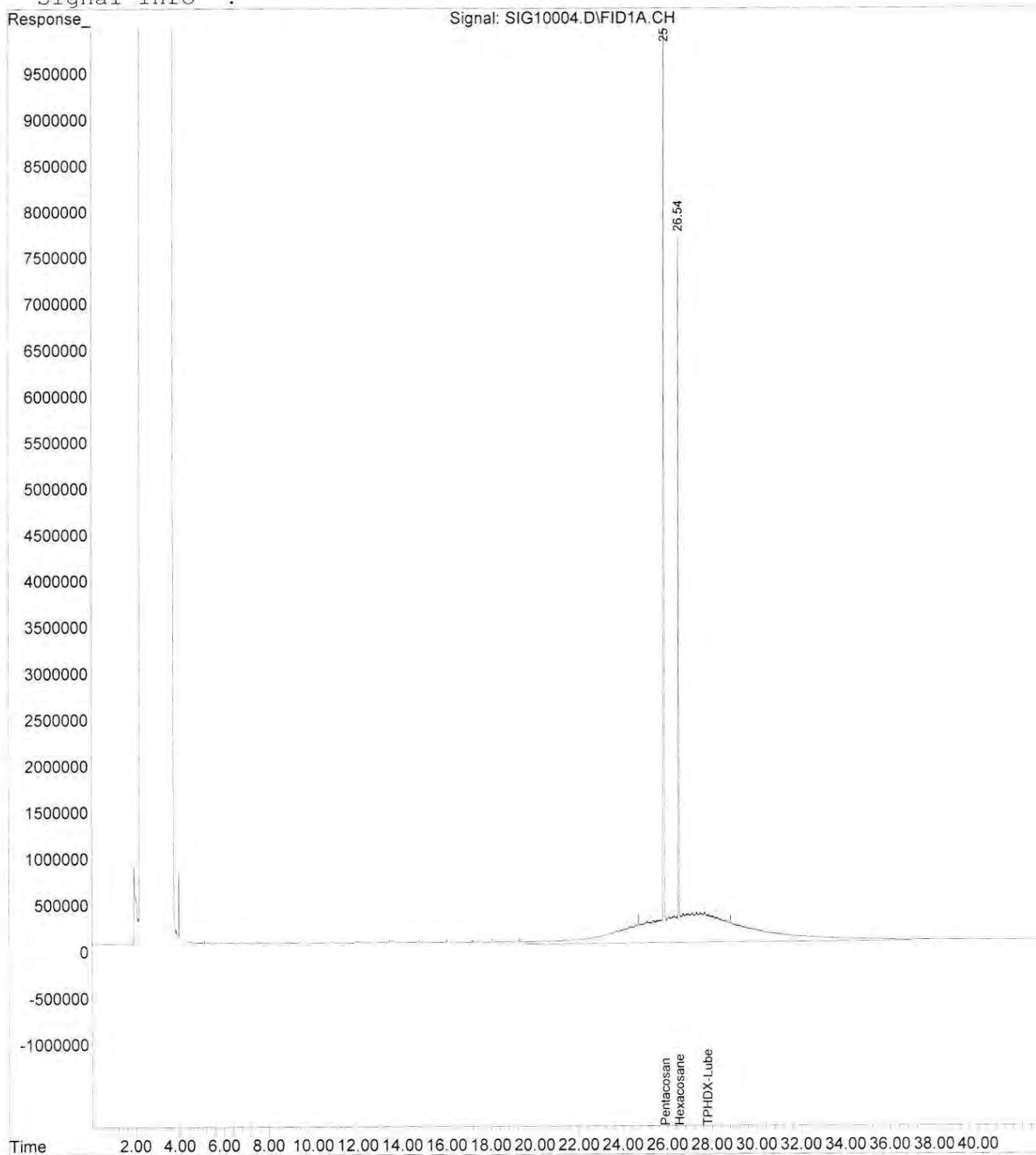
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.89	271051202	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.54	143934589	46.293	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 92.59%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	27.80	1197891360	886.689	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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10004.D Vial: 3
Acq On : 06 May 2024 18:11 Operator: ARY
Sample : LO 1000 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 13:47 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10005.D Vial: 4
 Acq On : 06 May 2024 19:07 Operator: ARY
 Sample : MO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:23 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

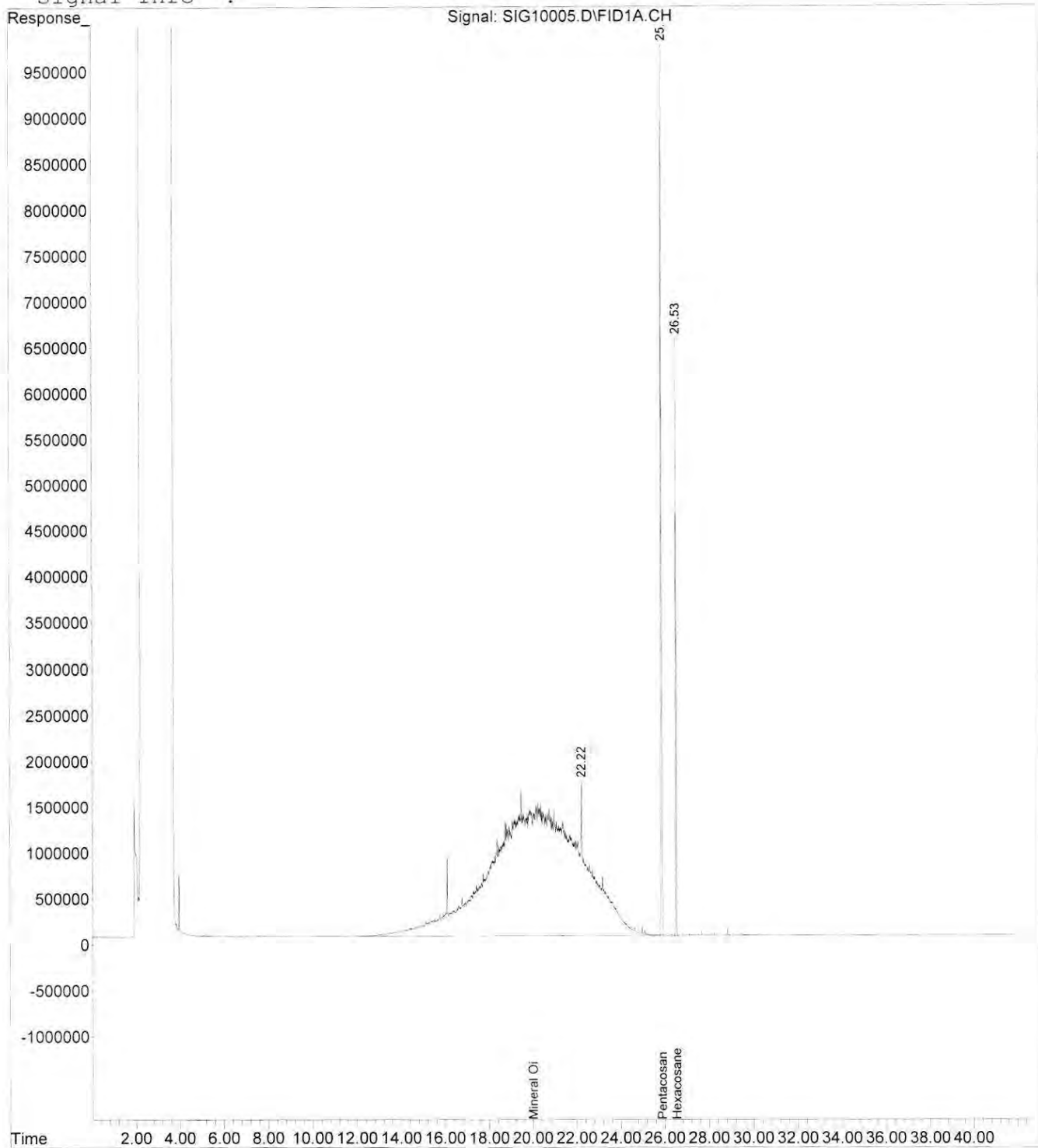
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	236680241	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	122969425	45.294 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 90.59%
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	20.00	4174003682	1054.171 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10005.D Vial: 4
Acq On : 06 May 2024 19:07 Operator: ARY
Sample : MO 1000 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 13:48 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10006.D Vial: 5
 Acq On : 06 May 2024 20:02 Operator: ARY
 Sample : GAS 40 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:24 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

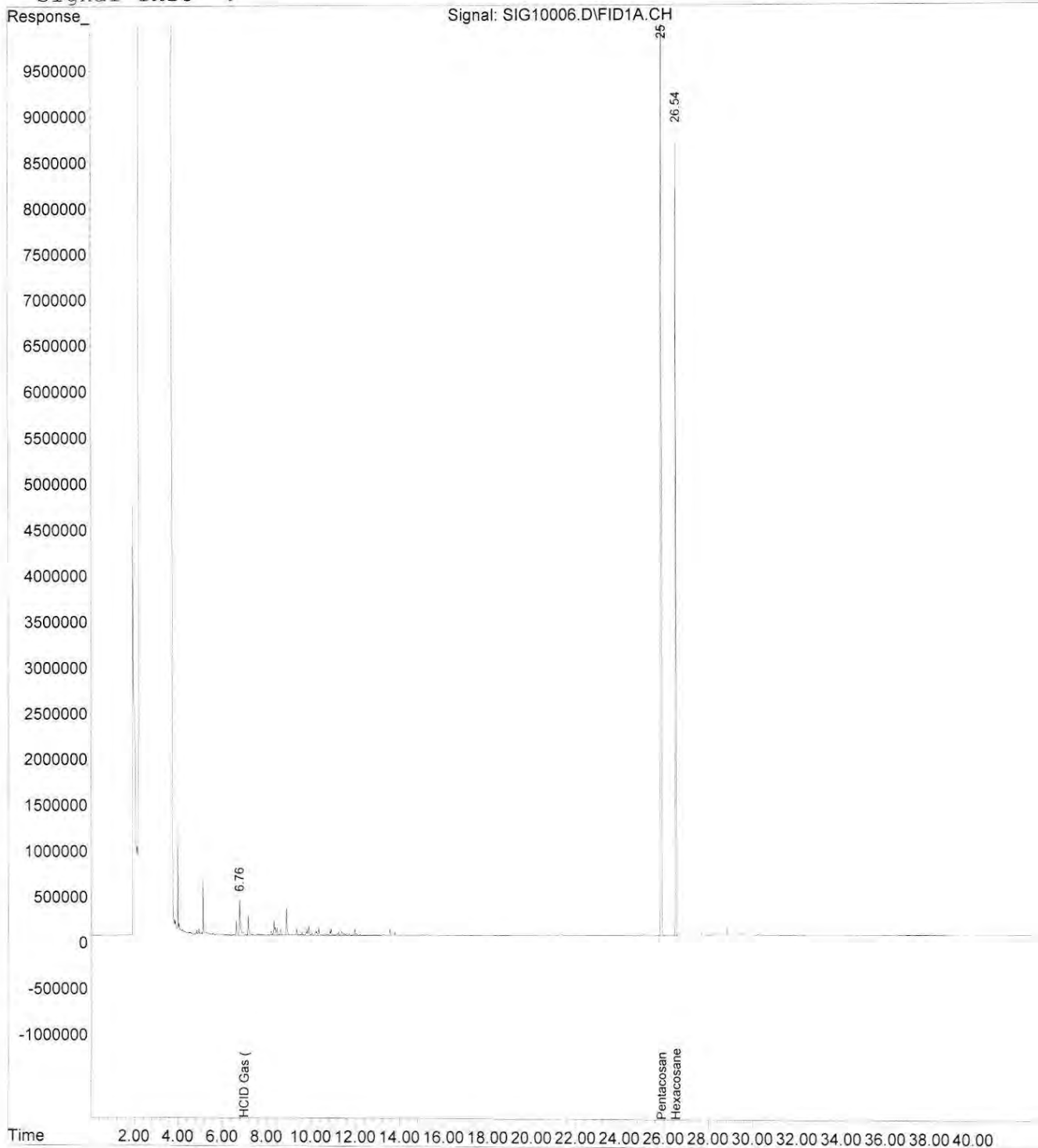
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	310552277	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.53	168728156	47.365 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 94.73%
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)	7.00	73779374	38.330 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10006.D Vial: 5
Acq On : 06 May 2024 20:02 Operator: ARY
Sample : GAS 40 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 7 7:47 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10007.D Vial: 6
 Acq On : 06 May 2024 20:57 Operator: ARY
 Sample : ICV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:25 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

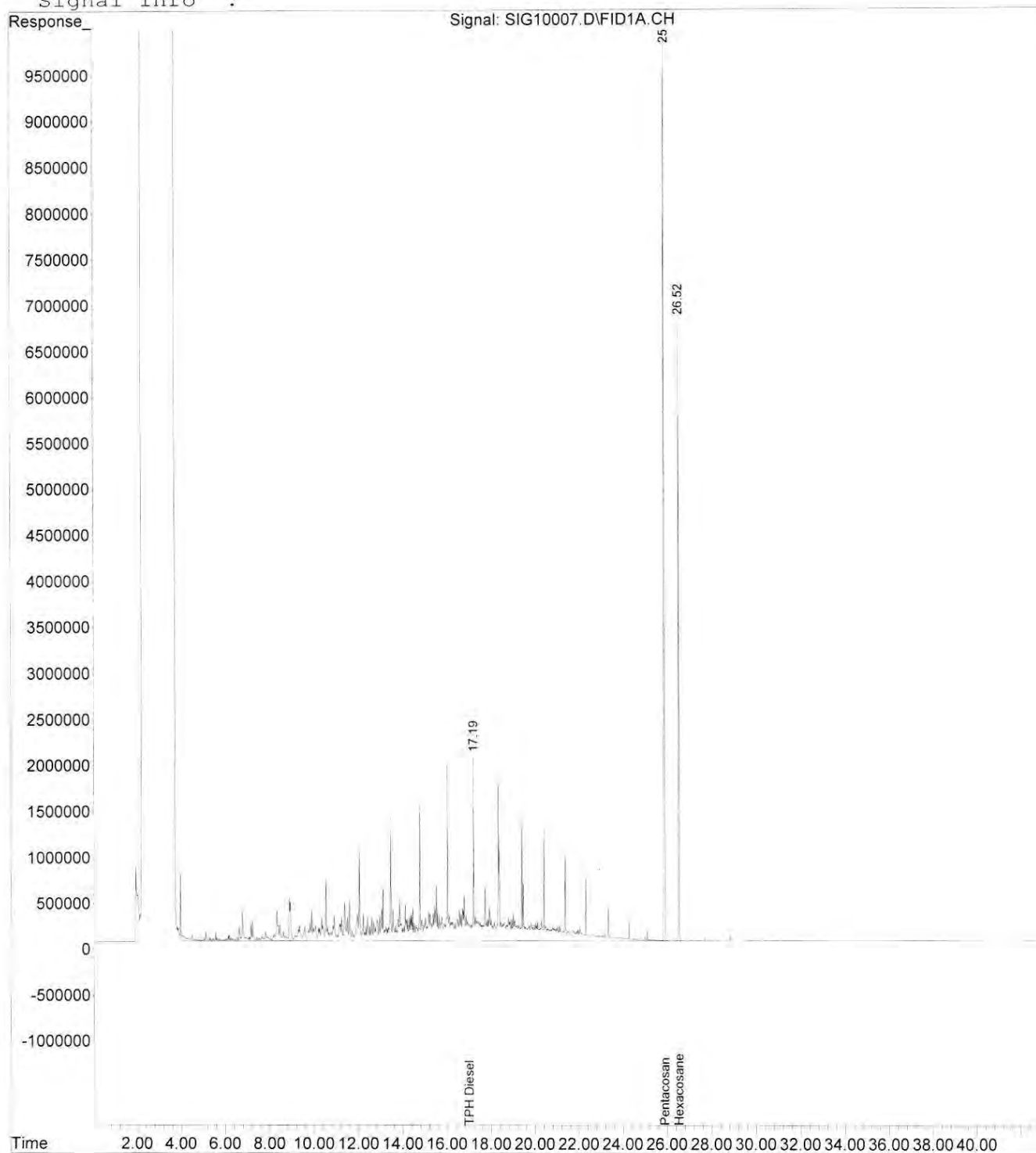
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	244389211	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.52	122033388	43.531 ppm
Spiked Amount	50.000	Range	50 - 150
		Recovery	= 87.06%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	1596887115	457.600 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10007.D Vial: 6
Acq On : 06 May 2024 20:57 Operator: ARY
Sample : ICV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 7 7:47 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10019.D Vial: 28
 Acq On : 07 May 2024 7:51 Operator: ARY
 Sample : BED1016-BLK1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 14:05:49 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

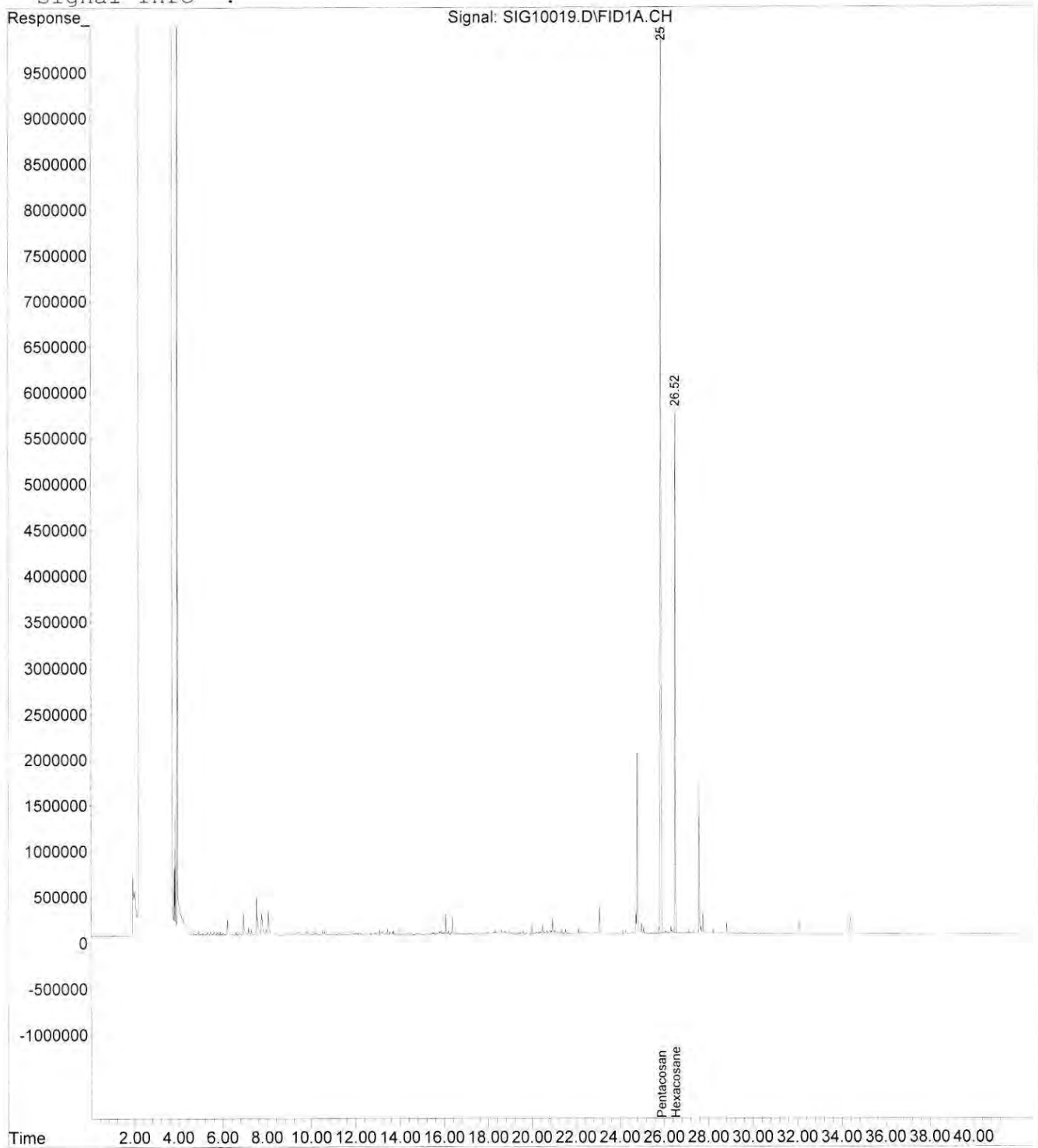
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	301442915	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	103846153	30.032 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 60.06%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10019.D Vial: 28
Acq On : 07 May 2024 7:51 Operator: ARY
Sample : BED1016-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:11 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10020.D Vial: 29
 Acq On : 07 May 2024 8:46 Operator: ARY
 Sample : BED1016-BS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 14:13:56 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

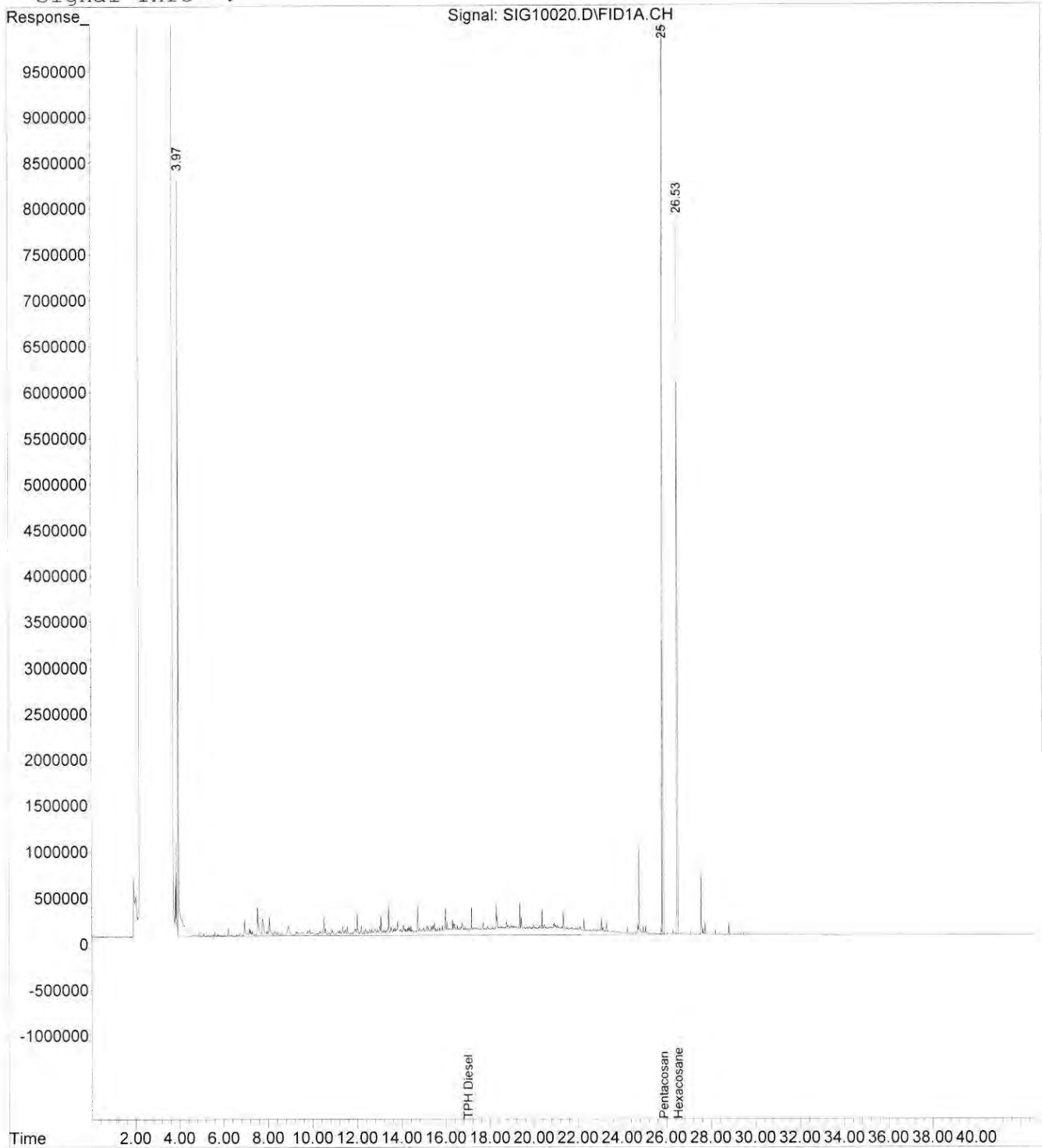
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	304832581	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	153643127	43.940 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	87.88%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	844643942	194.047 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10020.D Vial: 29
Acq On : 07 May 2024 8:46 Operator: ARY
Sample : BED1016-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:16 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10022.D Vial: 30
 Acq On : 07 May 2024 10:35 Operator: ARY
 Sample : BED1016-BSD1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 12:19:00 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

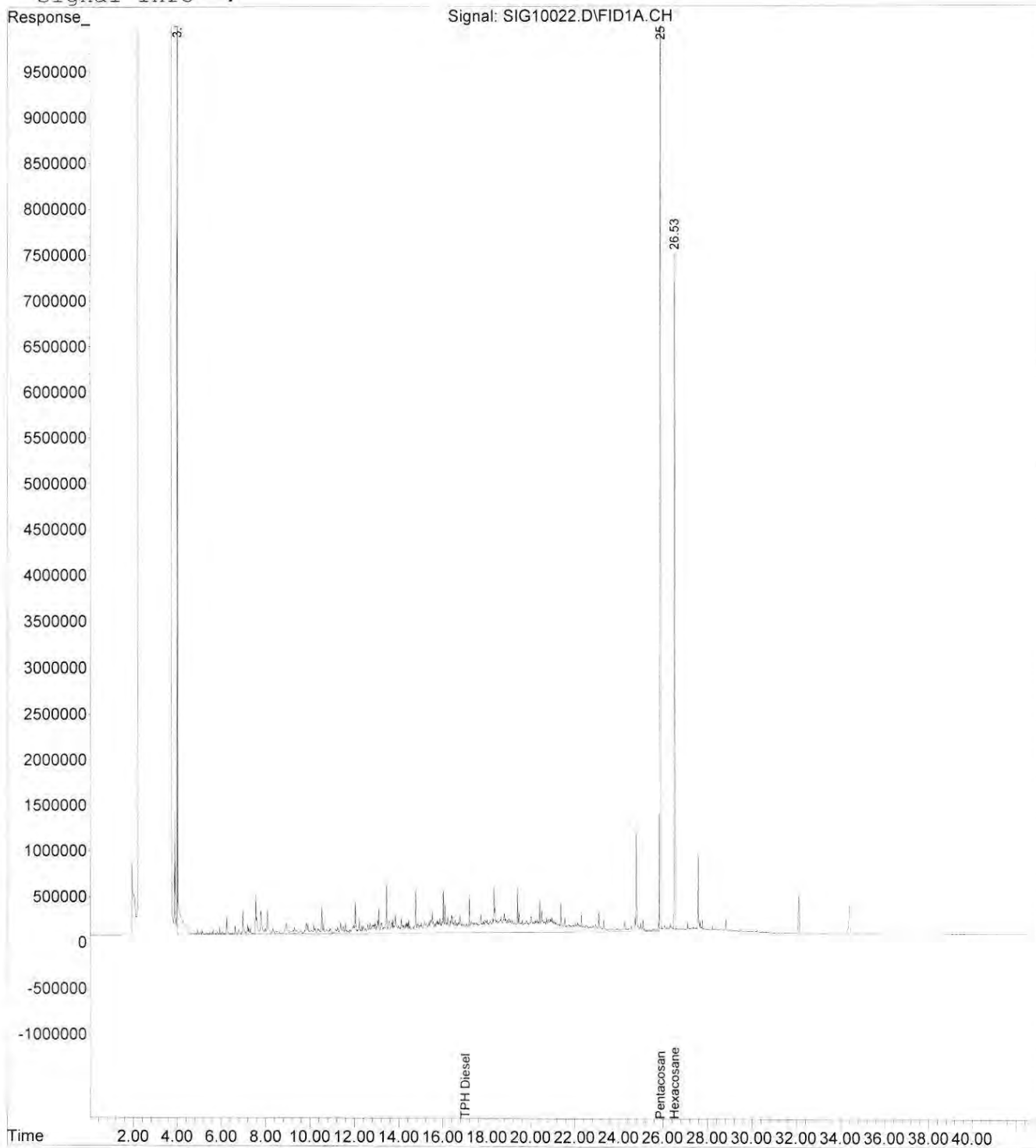
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	322654633	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	134140349	36.243 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 72.49%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	1054113791	228.794 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10022.D Vial: 30
Acq On : 07 May 2024 10:35 Operator: ARY
Sample : BED1016-BSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:17 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10023.D Vial: 31
 Acq On : 07 May 2024 11:31 Operator: ARY
 Sample : BED1016-DUP1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 12:20:22 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

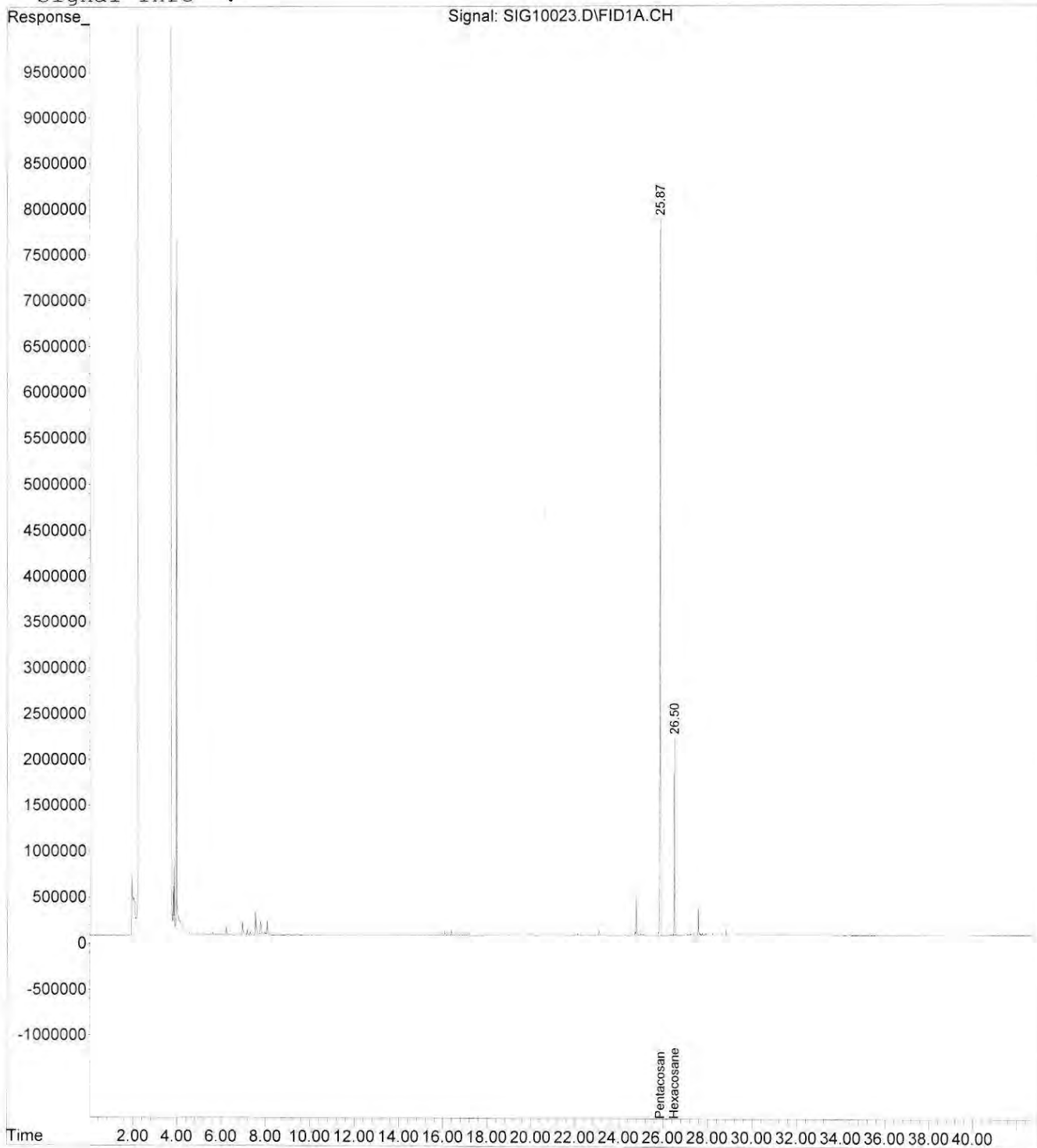
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.87	164375645	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.50	28636740	15.188	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 30.38%#
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10023.D Vial: 31
Acq On : 07 May 2024 11:31 Operator: ARY
Sample : BED1016-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:18 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10024.D Vial: 32
 Acq On : 07 May 2024 12:26 Operator: ARY
 Sample : BED1016-MS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 15:05:55 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

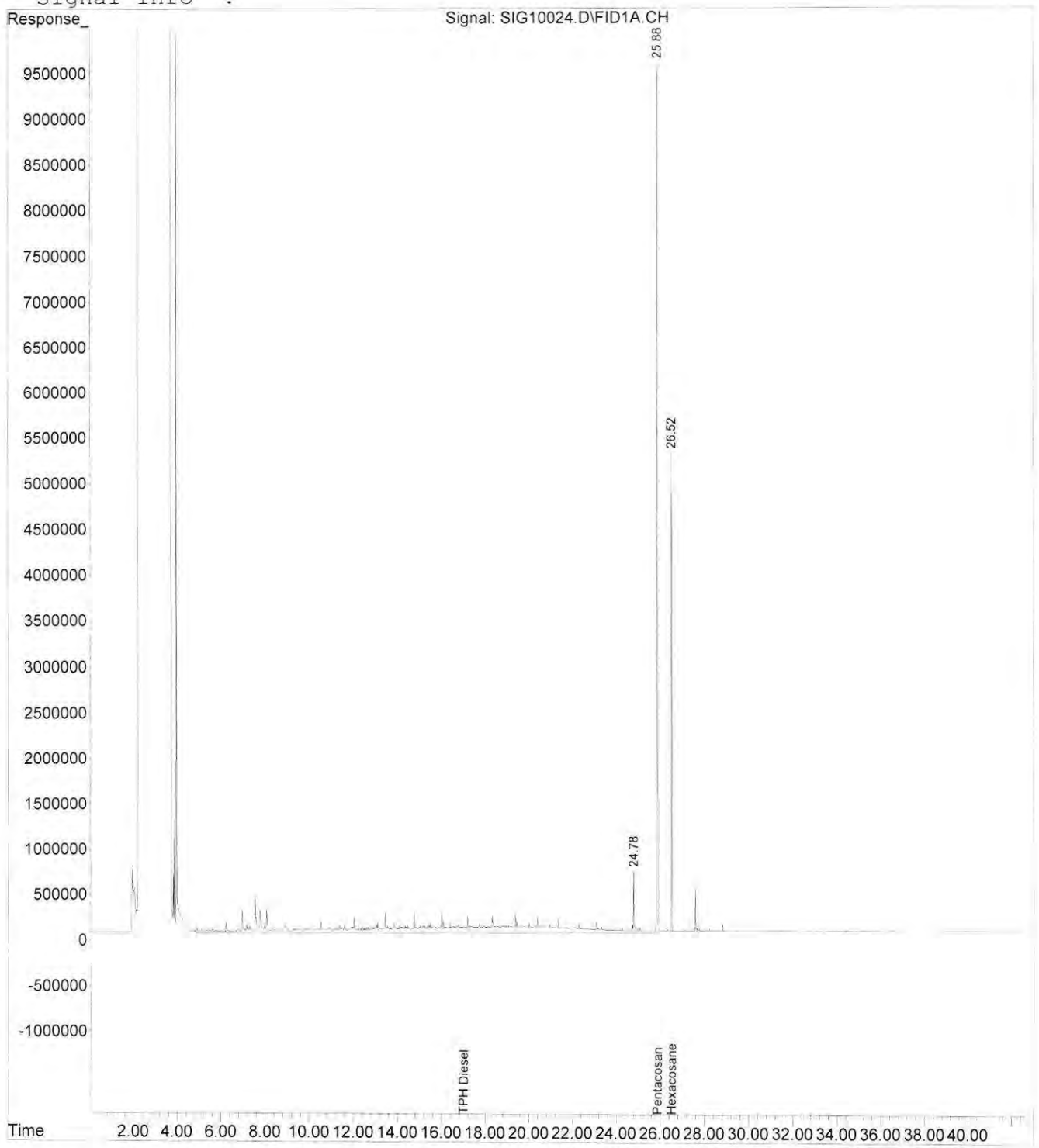
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	220719334	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	79661508	31.464 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 62.93%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	627523736	199.106 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10024.D Vial: 32
Acq On : 07 May 2024 12:26 Operator: ARY
Sample : BED1016-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jun 21 10:18 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10026.D Vial: 34
 Acq On : 07 May 2024 14:18 Operator: ARY
 Sample : WED0874-01 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 15:06:35 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

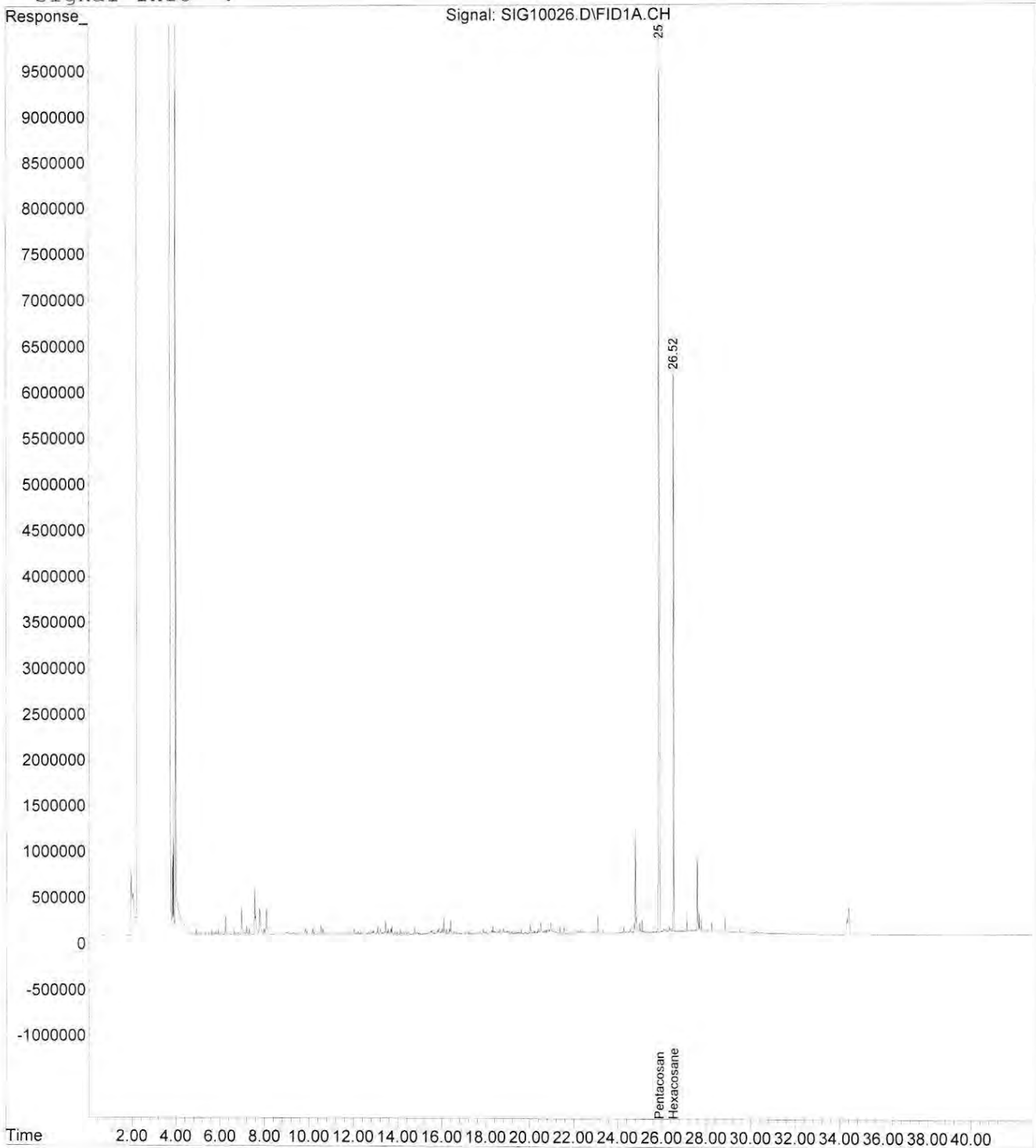
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	271405360	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	103894948	33.372 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 66.74%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10026.D Vial: 34
Acq On : 07 May 2024 14:18 Operator: ARY
Sample : WED0874-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jun 21 10:18 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10027.D Vial: 35
 Acq On : 07 May 2024 15:14 Operator: ARY
 Sample : WED0874-02 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 14:20:53 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

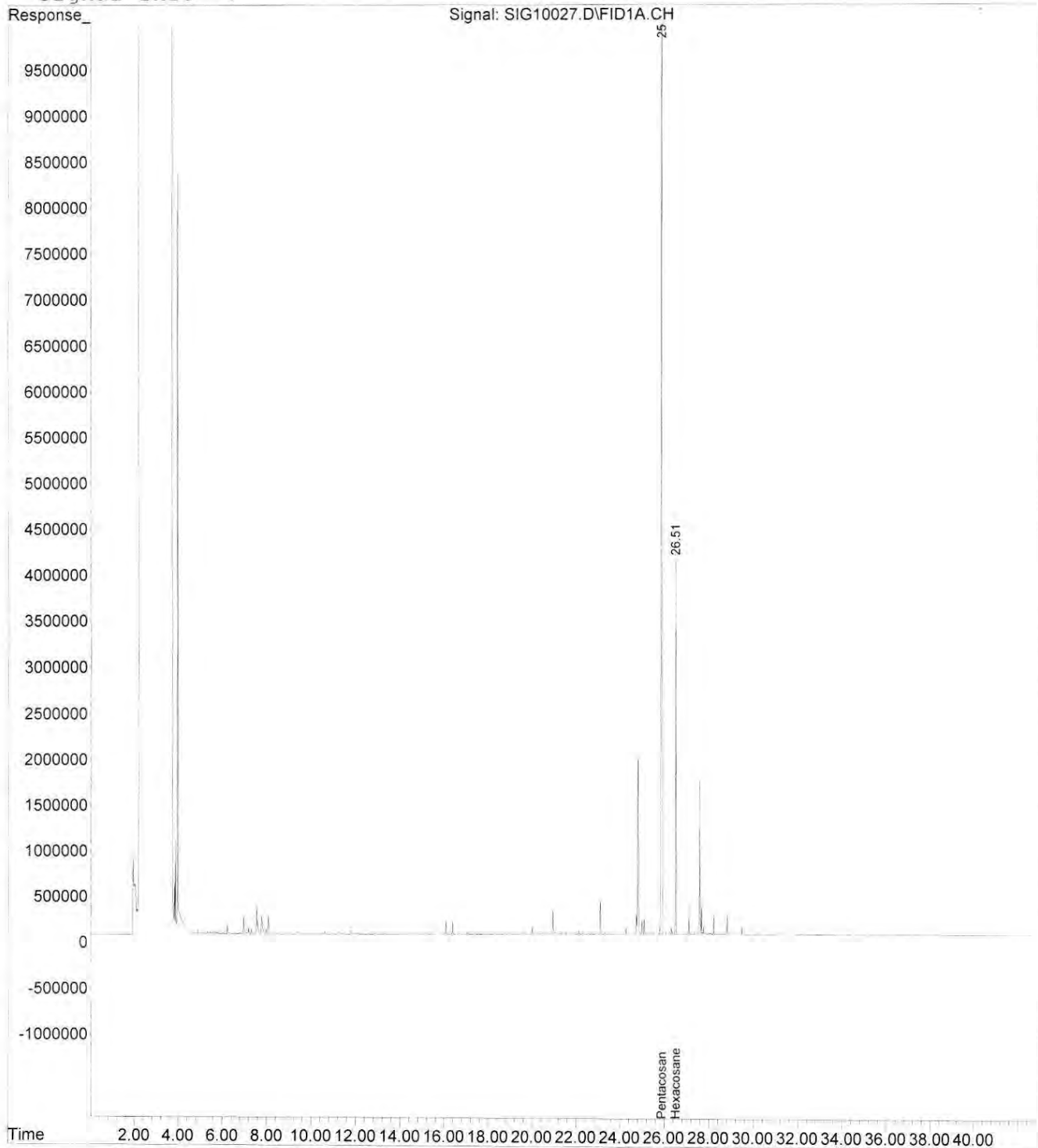
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.89	267708103	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.51	59303808	19.312	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 38.62%#
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10027.D Vial: 35
Acq On : 07 May 2024 15:14 Operator: ARY
Sample : WED0874-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:25 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10028.D Vial: 36
 Acq On : 07 May 2024 16:10 Operator: ARY
 Sample : WED0874-03 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 14:25:15 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

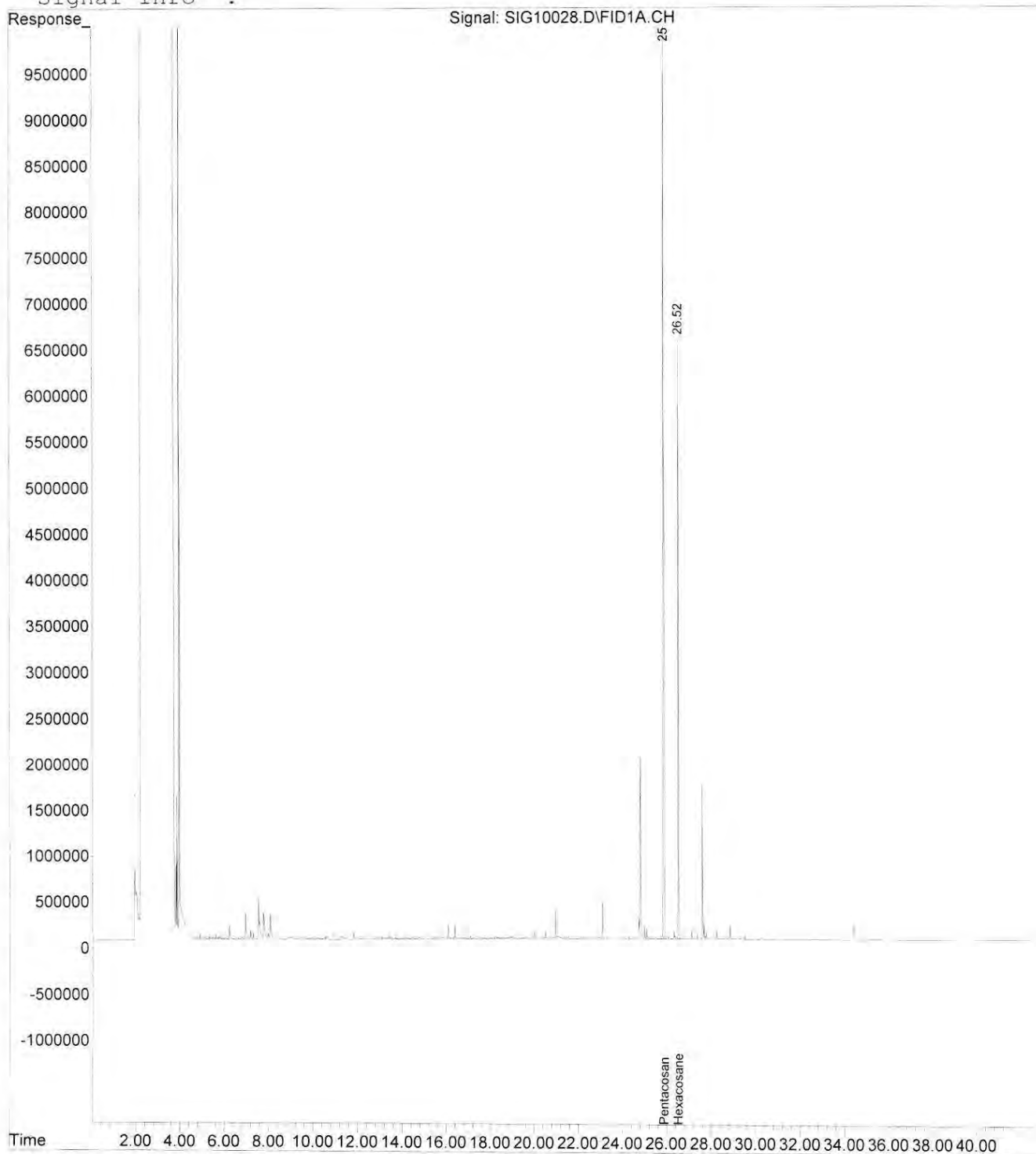
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	263571042	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	111088958	36.743 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 73.49%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10028.D Vial: 36
Acq On : 07 May 2024 16:10 Operator: ARY
Sample : WED0874-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:27 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Pentacosan
Hexacosane

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10029.D Vial: 37
 Acq On : 07 May 2024 17:06 Operator: ARY
 Sample : WED0874-04 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:05 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

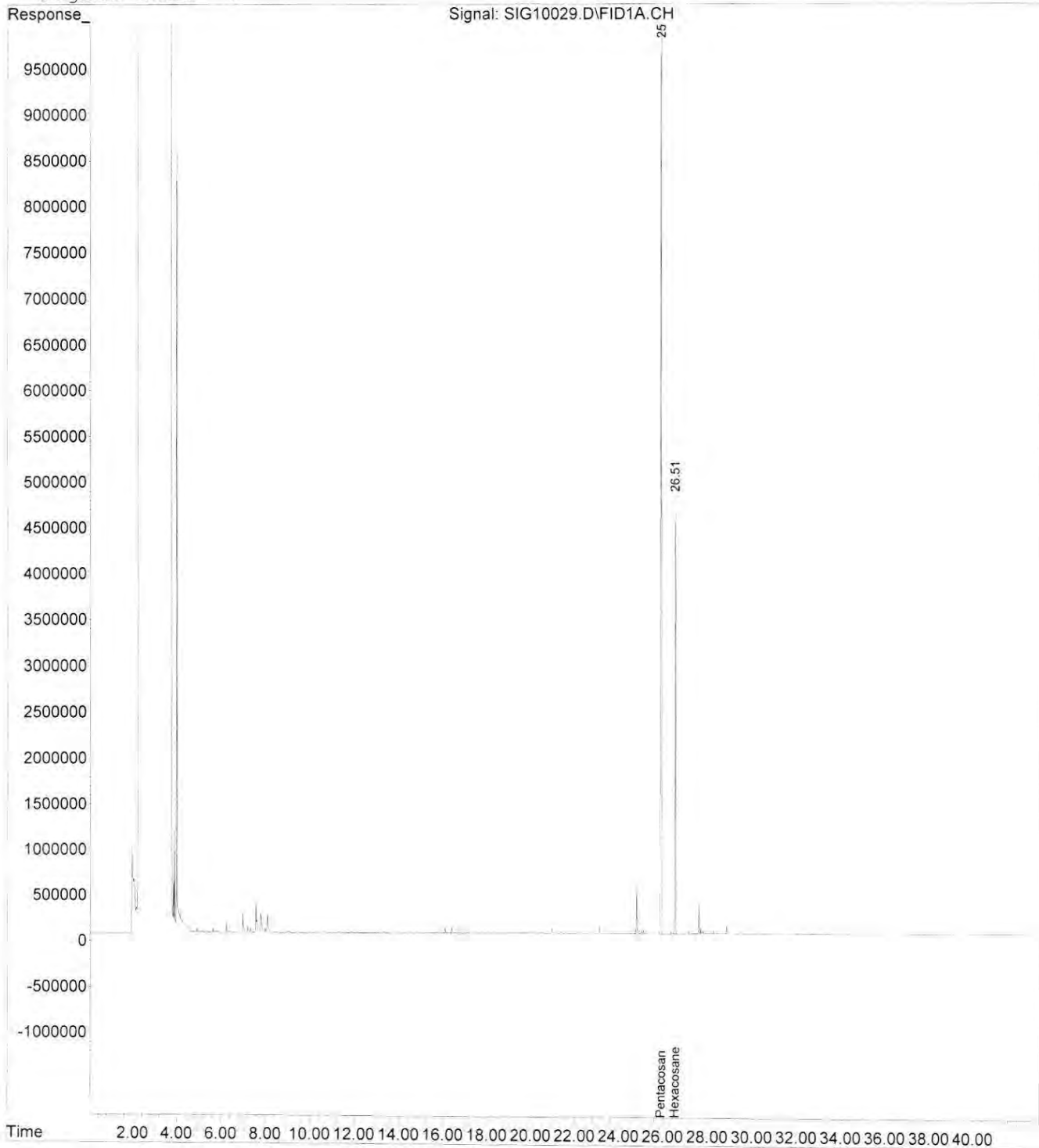
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.88	246489300	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.51	75876872	26.836	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 53.67%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10029.D Vial: 37
Acq On : 07 May 2024 17:06 Operator: ARY
Sample : WED0874-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:29 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10030.D Vial: 38
 Acq On : 07 May 2024 18:03 Operator: ARY
 Sample : WED0874-06 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:07 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

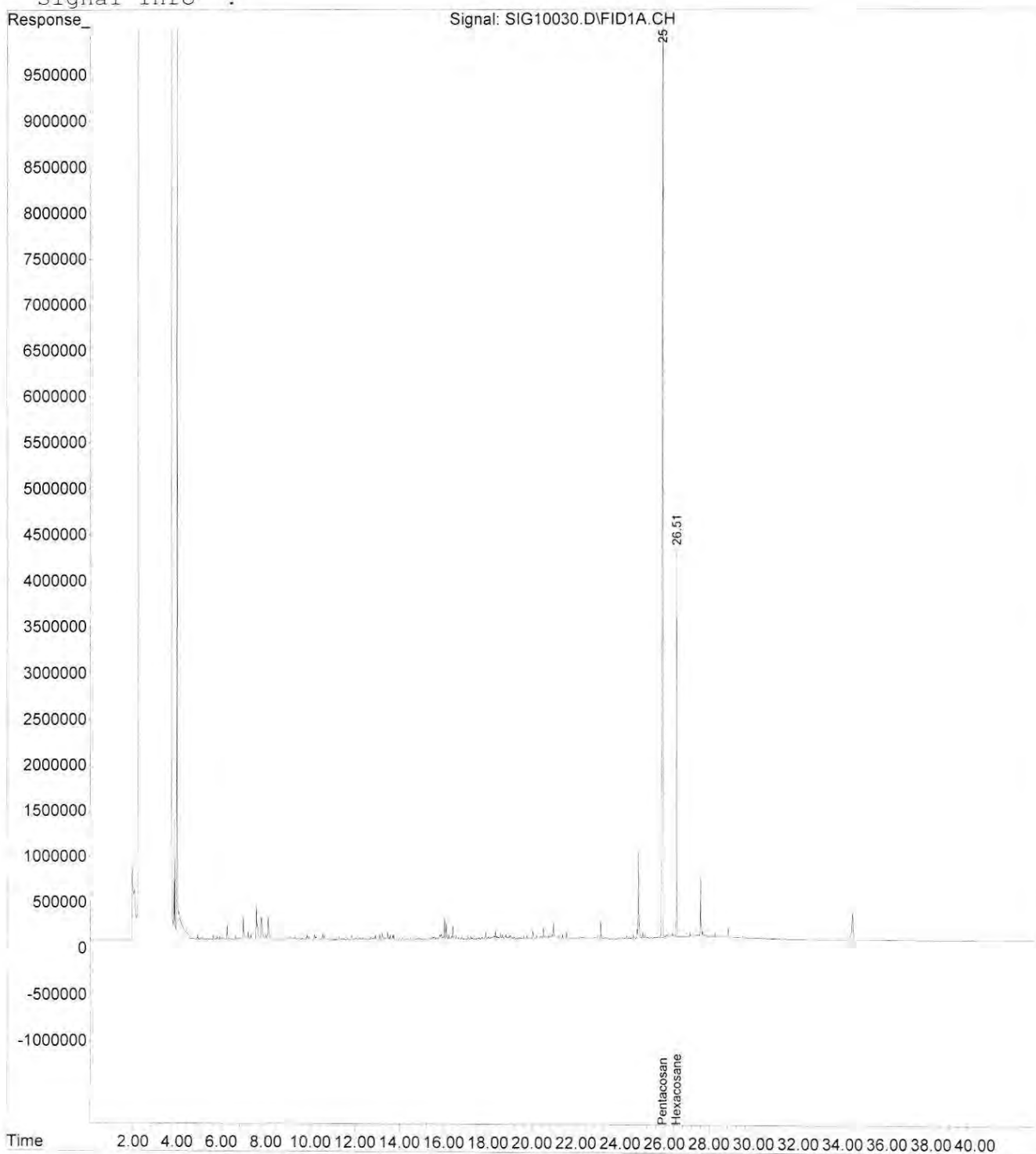
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.88	281287664	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.51	62850008	19.479	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 38.96%#
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10030.D Vial: 38
Acq On : 07 May 2024 18:03 Operator: ARY
Sample : WED0874-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:30 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10031.D Vial: 39
 Acq On : 07 May 2024 18:59 Operator: ARY
 Sample : WED0874-07 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:08 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

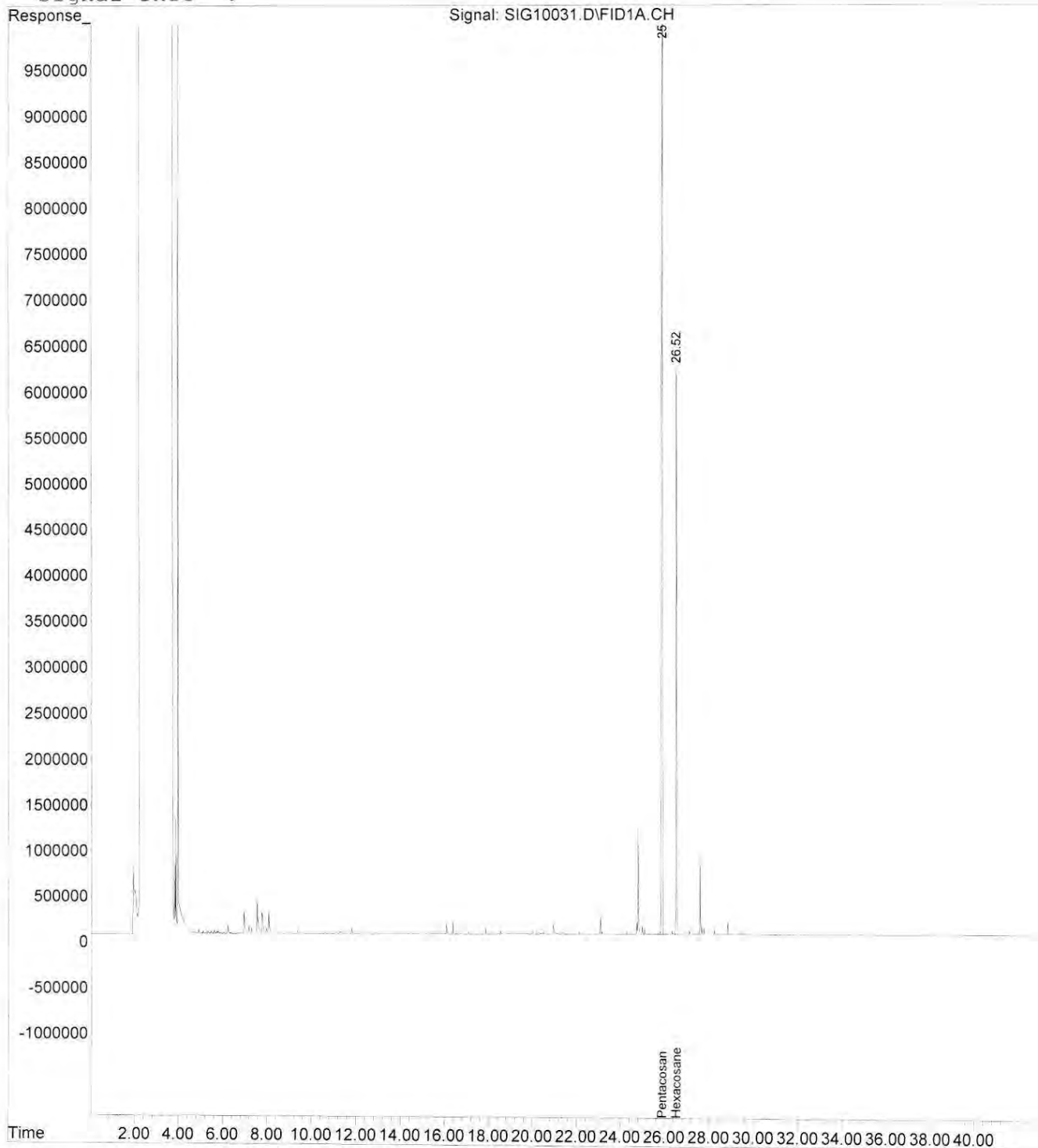
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	346038407	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	103442574	26.060 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 52.12%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10031.D Vial: 39
Acq On : 07 May 2024 18:59 Operator: ARY
Sample : WED0874-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:31 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10032.D Vial: 40
 Acq On : 07 May 2024 19:54 Operator: ARY
 Sample : WED0874-08 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:10 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

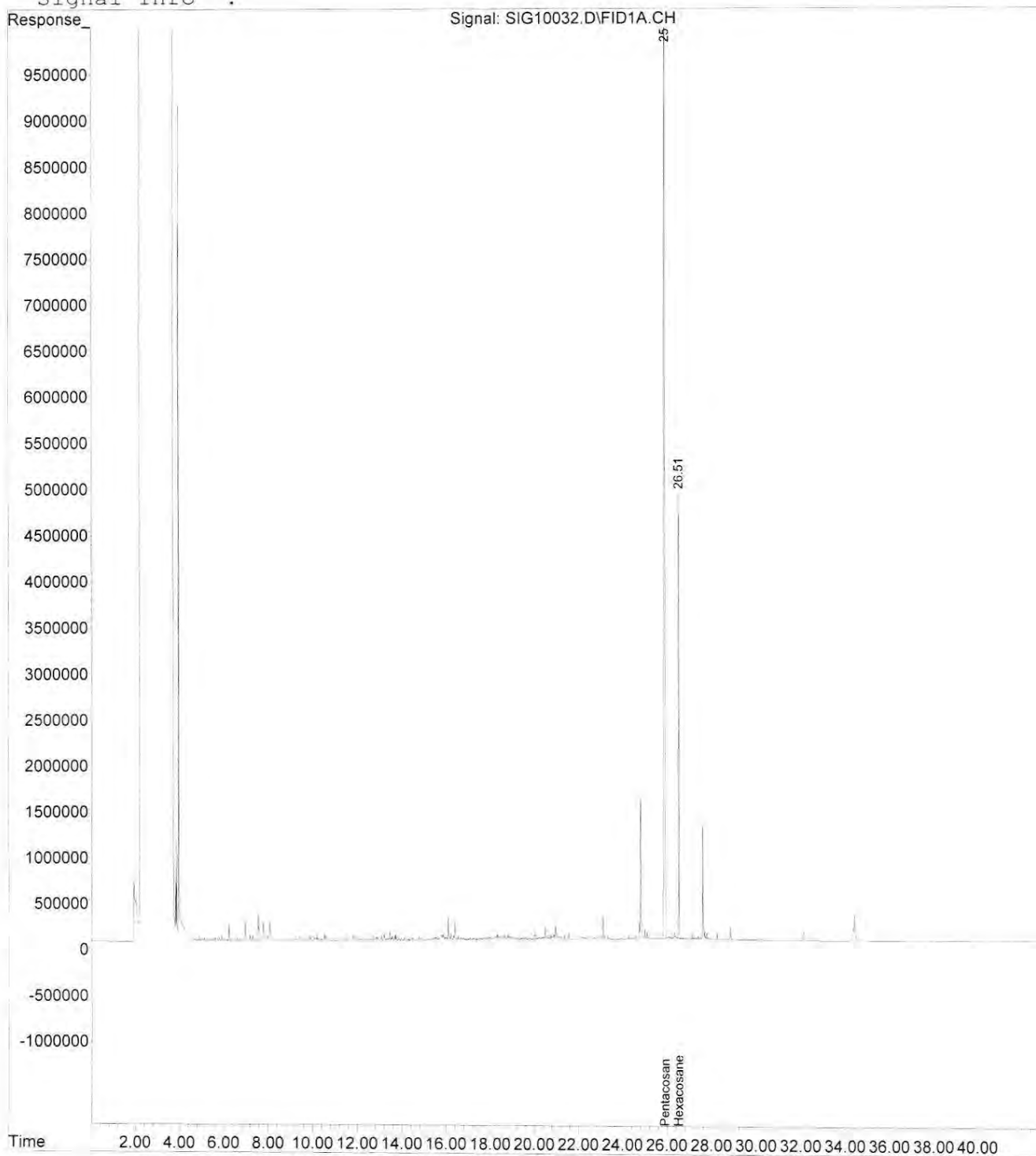
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.90	385045191	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.51	75982006	17.203	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 34.41%#
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10032.D Vial: 40
Acq On : 07 May 2024 19:54 Operator: ARY
Sample : WED0874-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:33 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10033.D Vial: 41
 Acq On : 07 May 2024 20:50 Operator: ARY
 Sample : WED0874-09 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:11 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

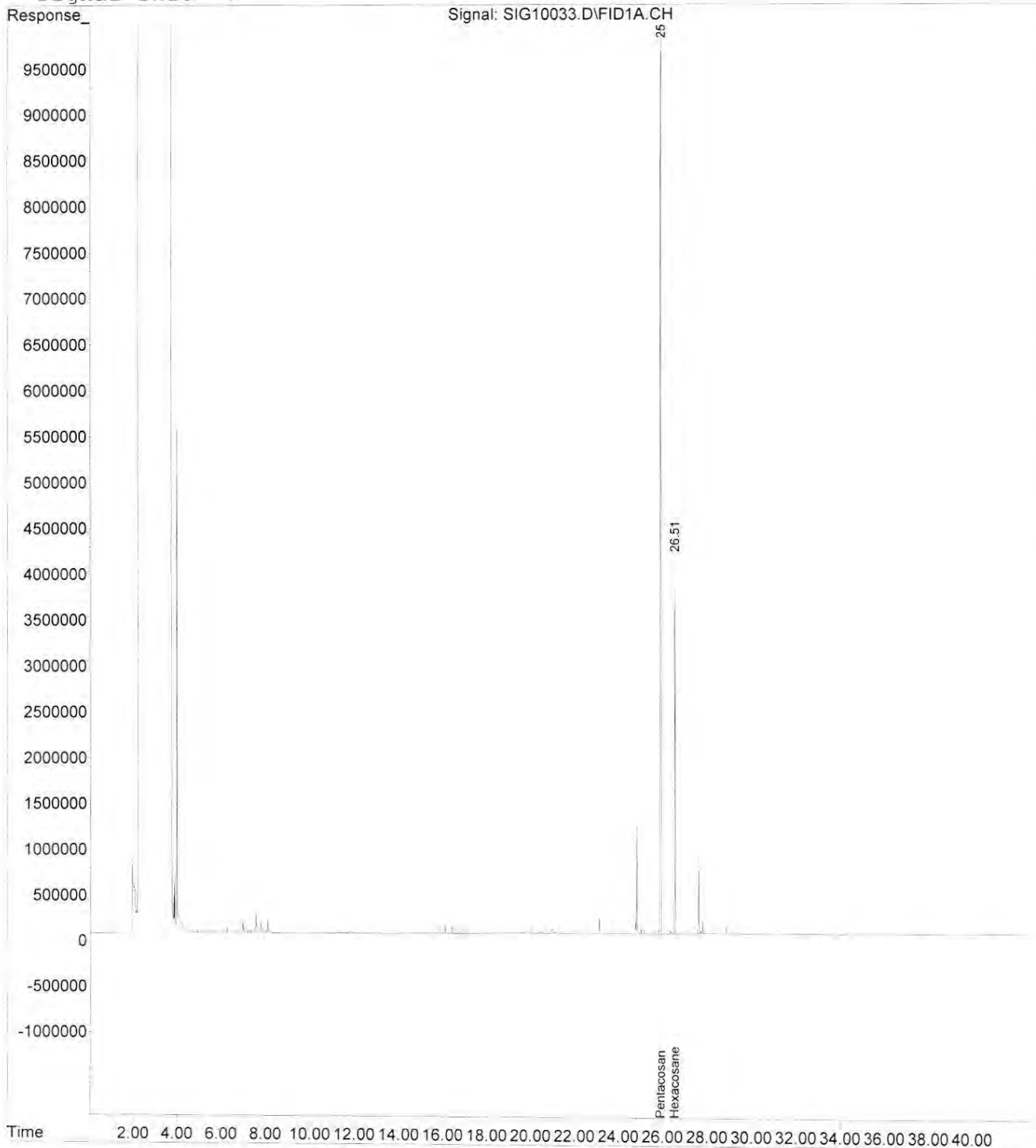
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.88	269710838	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.51	60477597	19.548	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 39.10%#
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10033.D Vial: 41
Acq On : 07 May 2024 20:50 Operator: ARY
Sample : WED0874-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:35 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10034.D Vial: 42
 Acq On : 07 May 2024 21:45 Operator: ARY
 Sample : WED0874-10 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:13 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

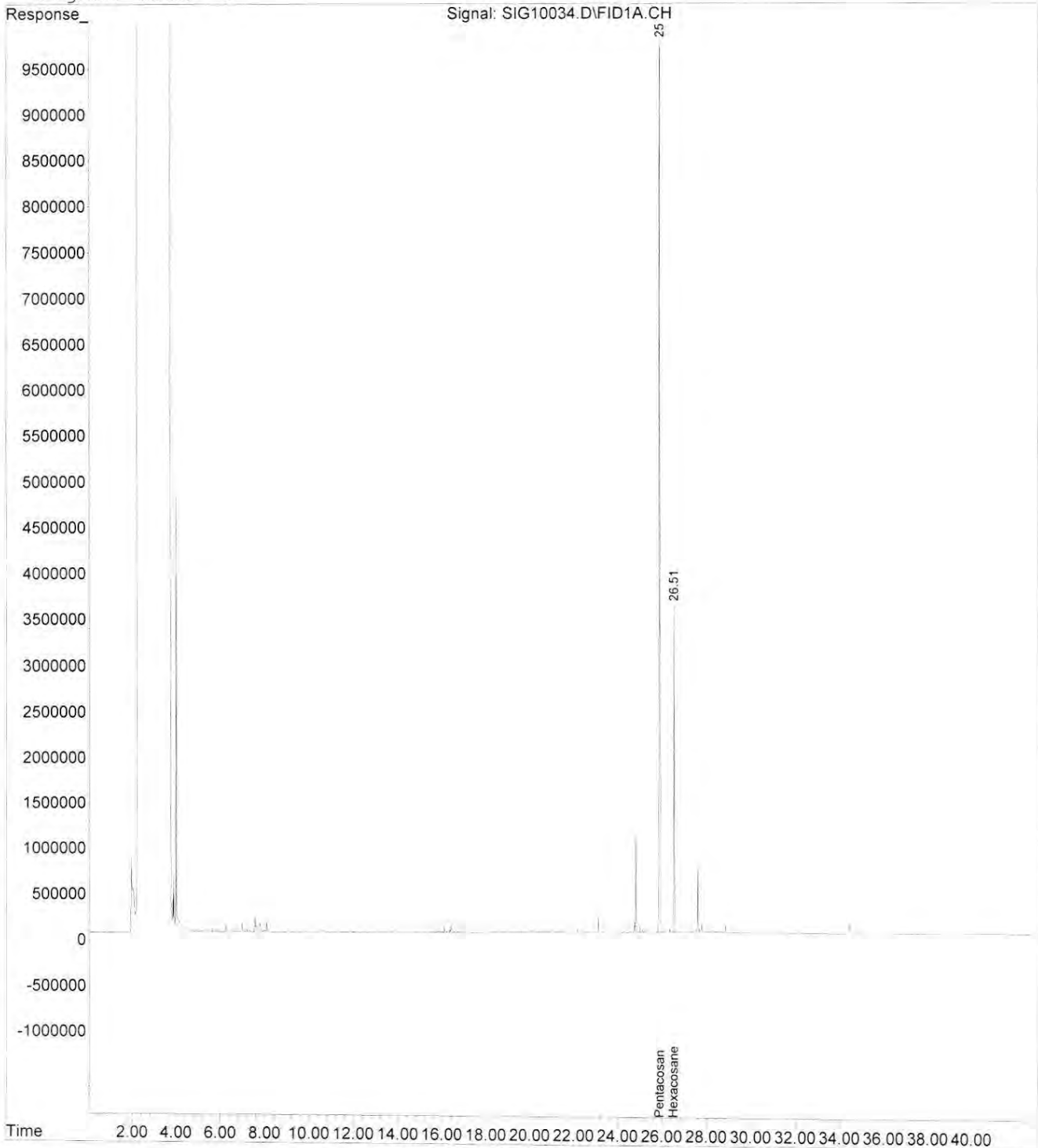
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.88	235279225	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.51	52258393	19.363	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 38.73%#
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10034.D Vial: 42
Acq On : 07 May 2024 21:45 Operator: ARY
Sample : WED0874-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:36 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10013.D Vial: 1
 Acq On : 07 May 2024 2:25 Operator: ARY
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:34 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

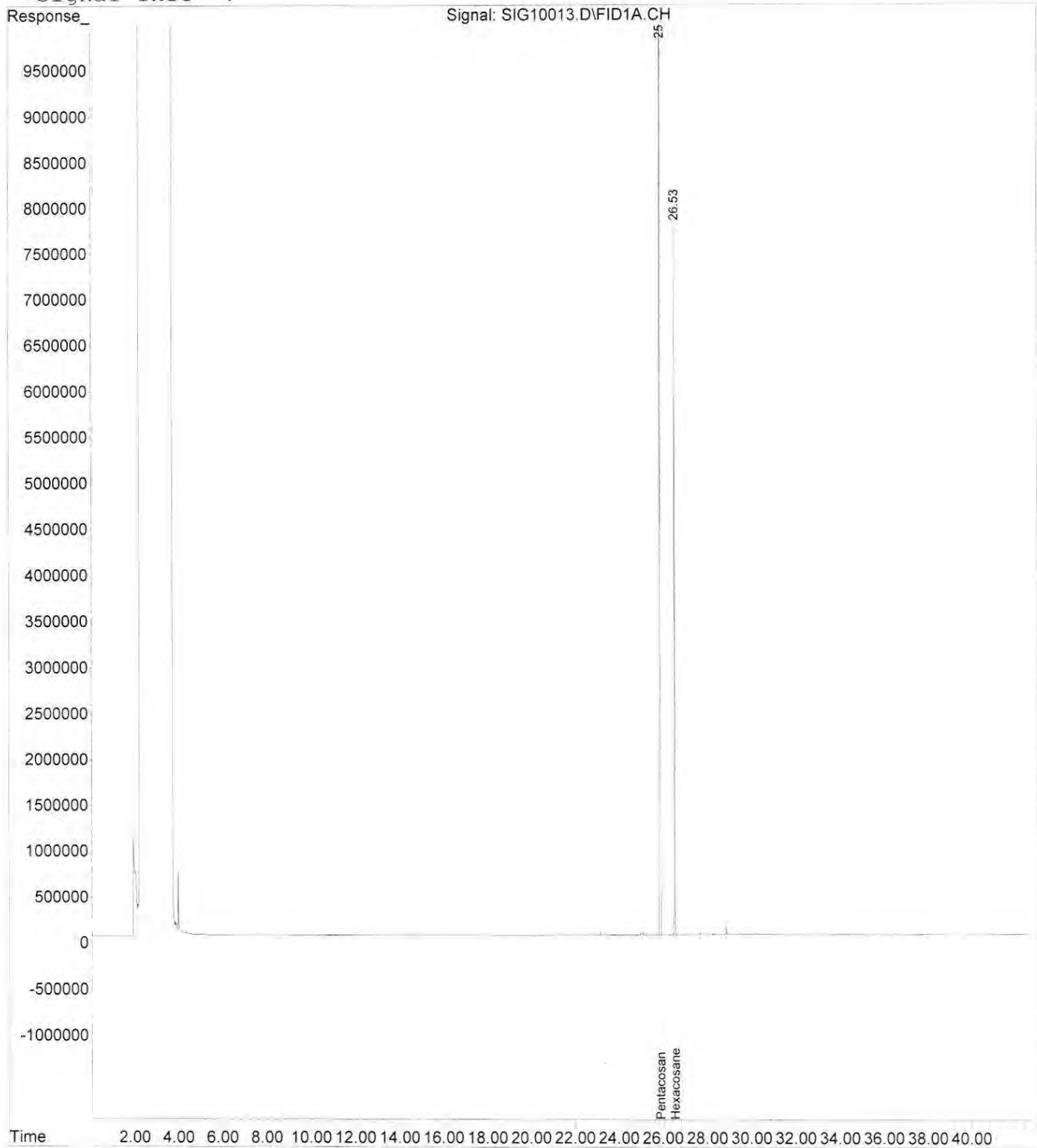
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.89	266895097	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.53	138389247	45.203	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 90.41%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10013.D Vial: 1
Acq On : 07 May 2024 2:25 Operator: ARY
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 13:57 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10014.D Vial: 2
 Acq On : 07 May 2024 3:19 Operator: ARY
 Sample : DX 500 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:35 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

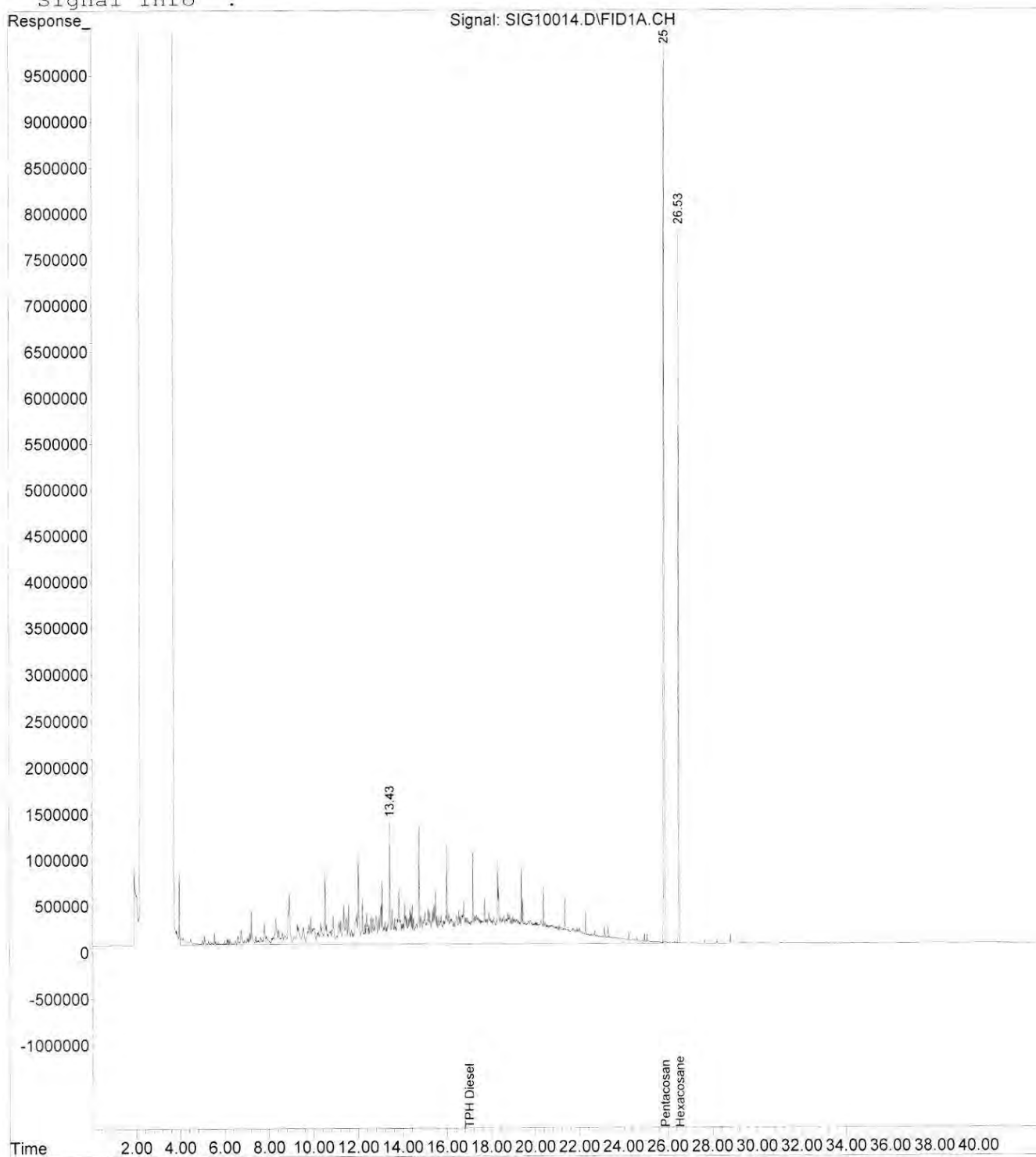
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	269102324	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	145135170	47.018 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 94.04%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	2003038958	521.274 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10014.D Vial: 2
Acq On : 07 May 2024 3:19 Operator: ARY
Sample : DX 500 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 13:57 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10015.D Vial: 3
 Acq On : 07 May 2024 4:13 Operator: ARY
 Sample : LO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:57:53 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

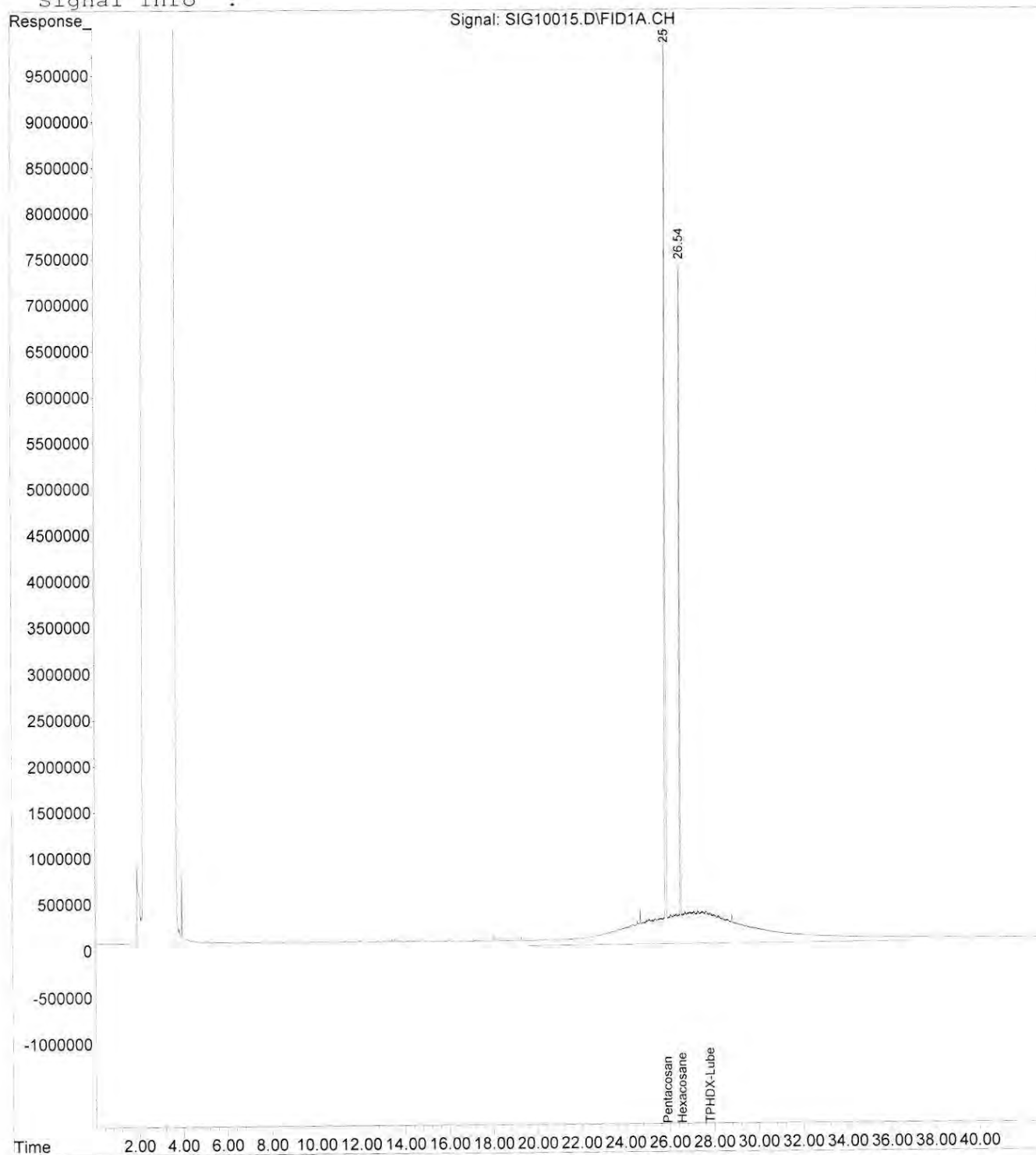
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	286002615	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.54	149155842	45.465 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 90.93%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	27.80	1425927792	1000.306 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10015.D Vial: 3
Acq On : 07 May 2024 4:13 Operator: ARY
Sample : LO 1000 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 13 8:27 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10016.D Vial: 4
 Acq On : 07 May 2024 5:08 Operator: ARY
 Sample : MO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:38 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

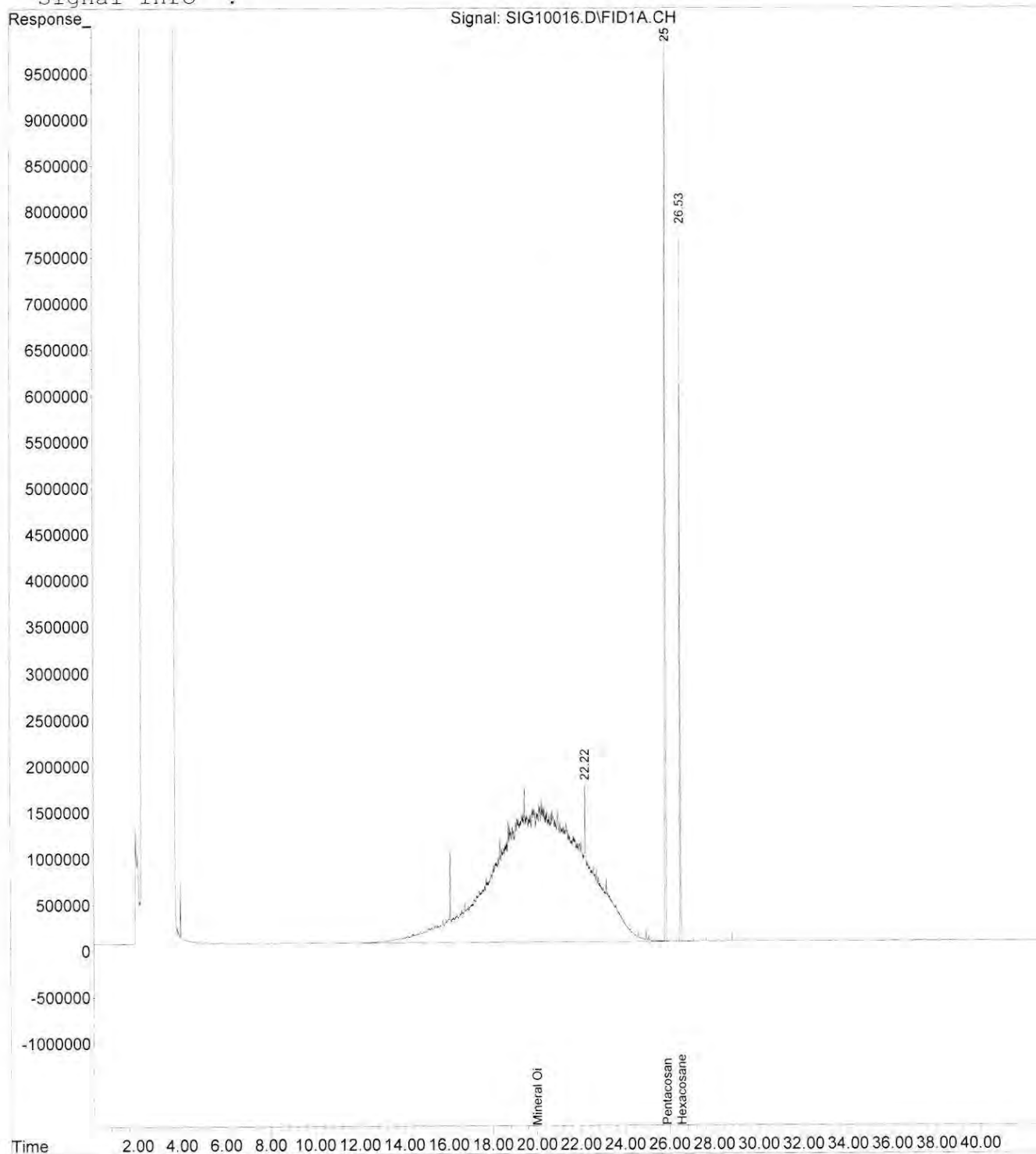
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	258502261	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.52	135675396	45.755 ppm
Spiked Amount	50.000	Recovery =	91.51%
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	20.00	4354127079	1006.832 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10016.D Vial: 4
Acq On : 07 May 2024 5:08 Operator: ARY
Sample : MO 1000 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:00 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10017.D Vial: 5
 Acq On : 07 May 2024 6:02 Operator: ARY
 Sample : GAS 40 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:39 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

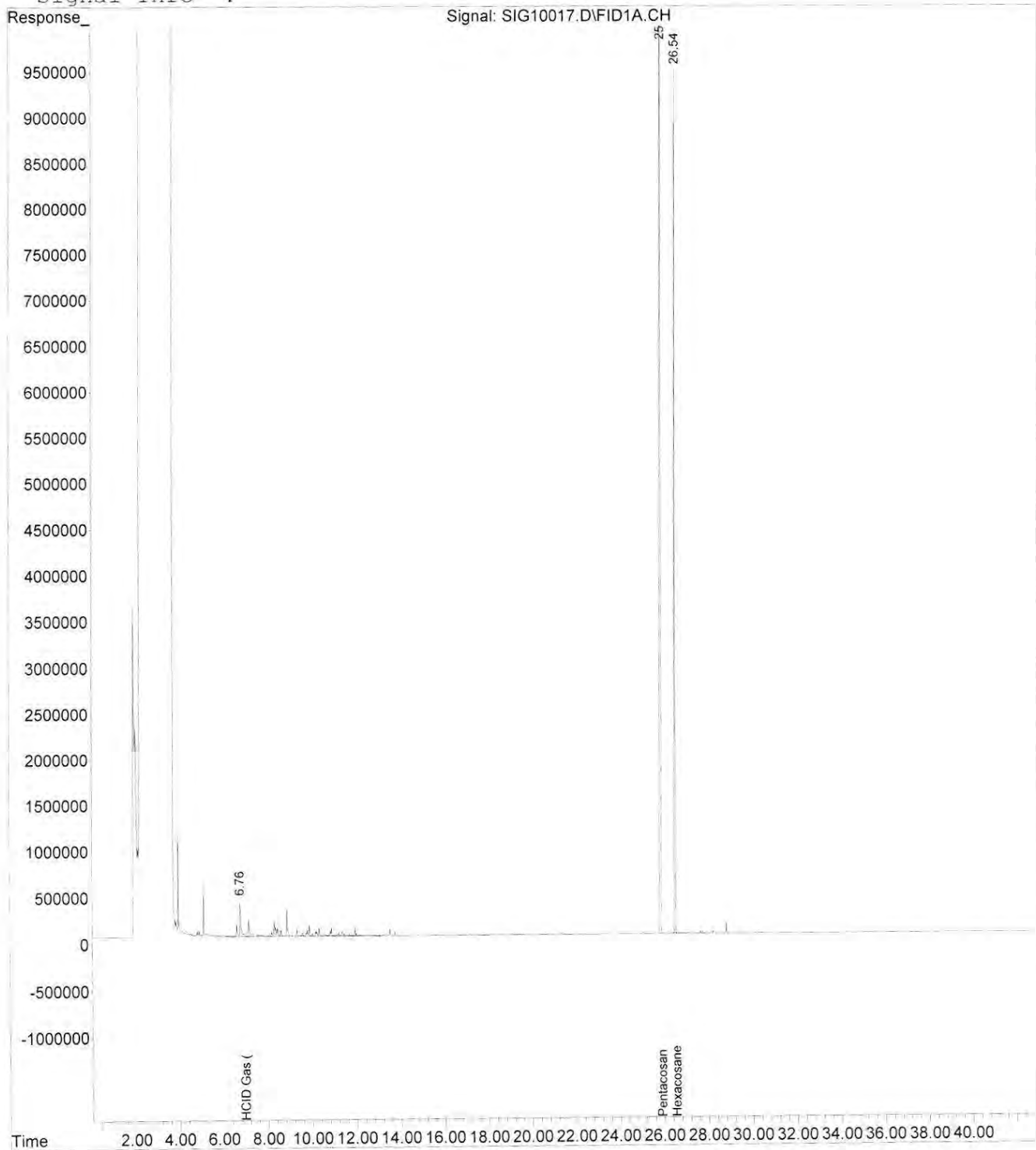
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	347045141	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.54	191459636	48.095 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	96.19%
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)	7.00	75068534	34.899 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10017.D Vial: 5
Acq On : 07 May 2024 6:02 Operator: ARY
Sample : GAS 40 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:01 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10018.D Vial: 6
 Acq On : 07 May 2024 6:57 Operator: ARY
 Sample : ICV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 07 07:44:40 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

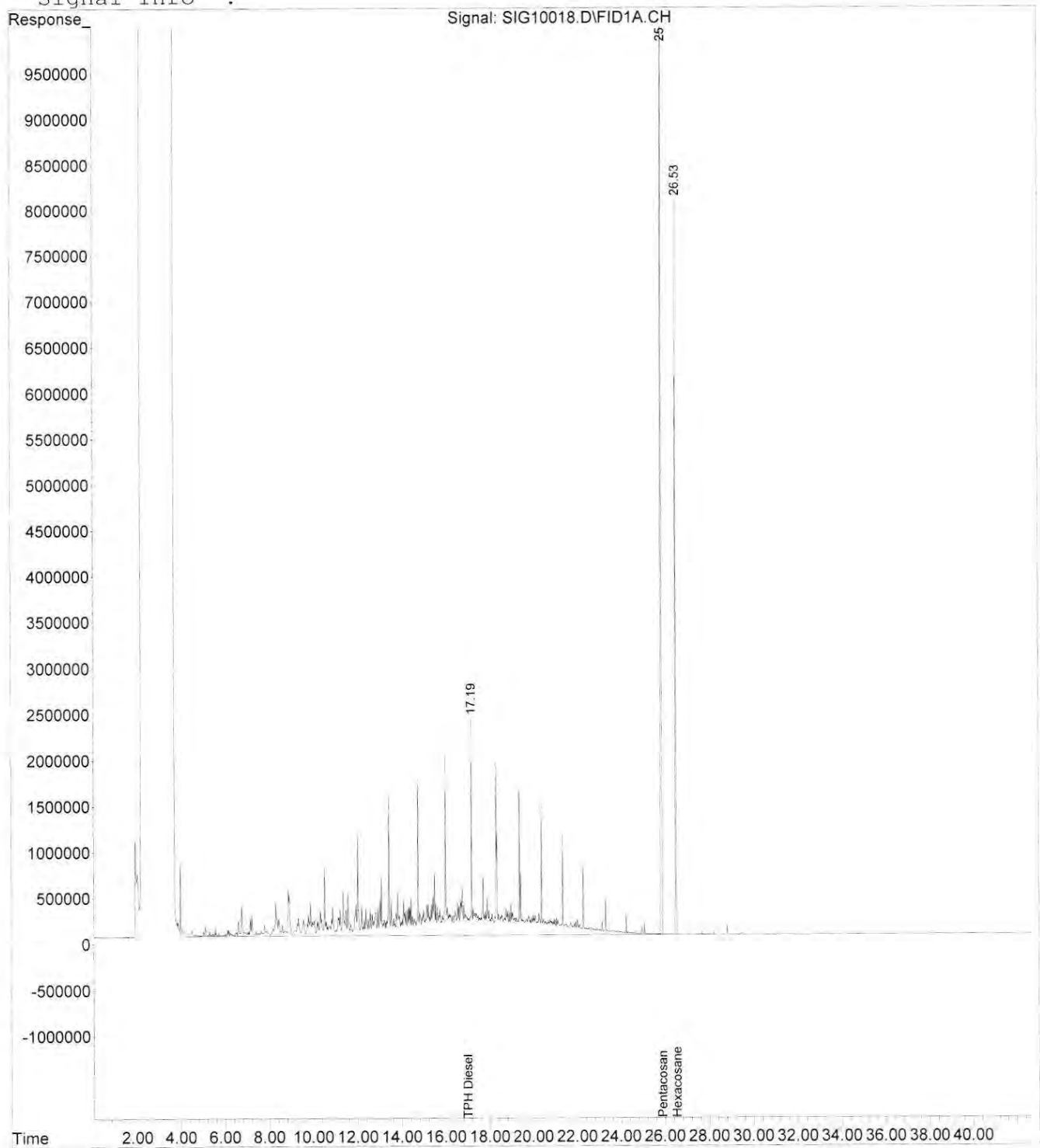
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	286173253	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	145311726	44.267 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 88.53%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	1757110332	429.996 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10018.D Vial: 6
Acq On : 07 May 2024 6:57 Operator: ARY
Sample : ICV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:03 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10041.D Vial: 43
 Acq On : 08 May 2024 4:08 Operator: ARY
 Sample : WED0874-11 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:23 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

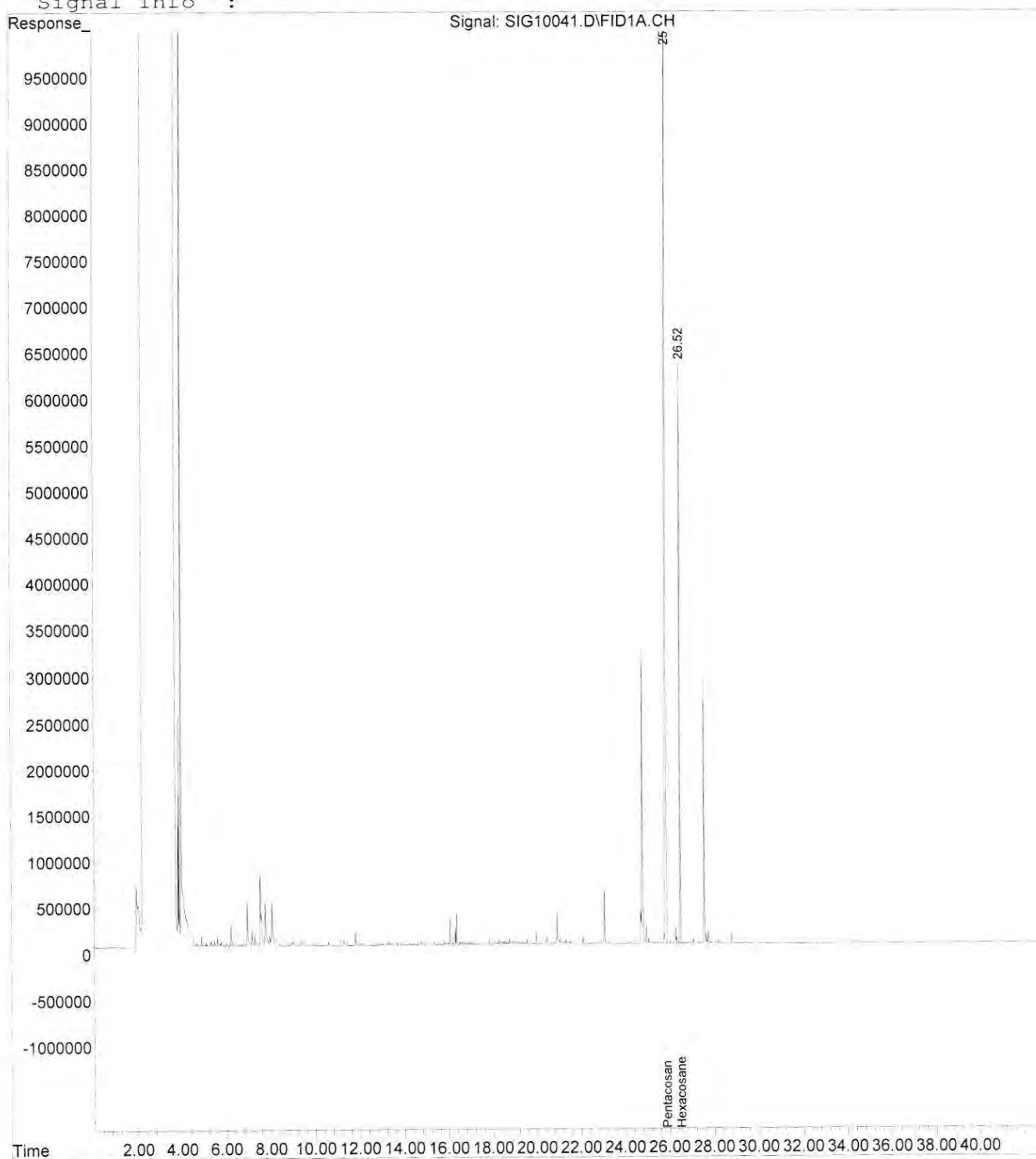
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	332933728	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	106987538	28.014 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 56.03%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10041.D Vial: 43
Acq On : 08 May 2024 4:08 Operator: ARY
Sample : WED0874-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jun 21 10:21 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10042.D Vial: 44
 Acq On : 08 May 2024 5:02 Operator: ARY
 Sample : WED0874-12 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:25 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

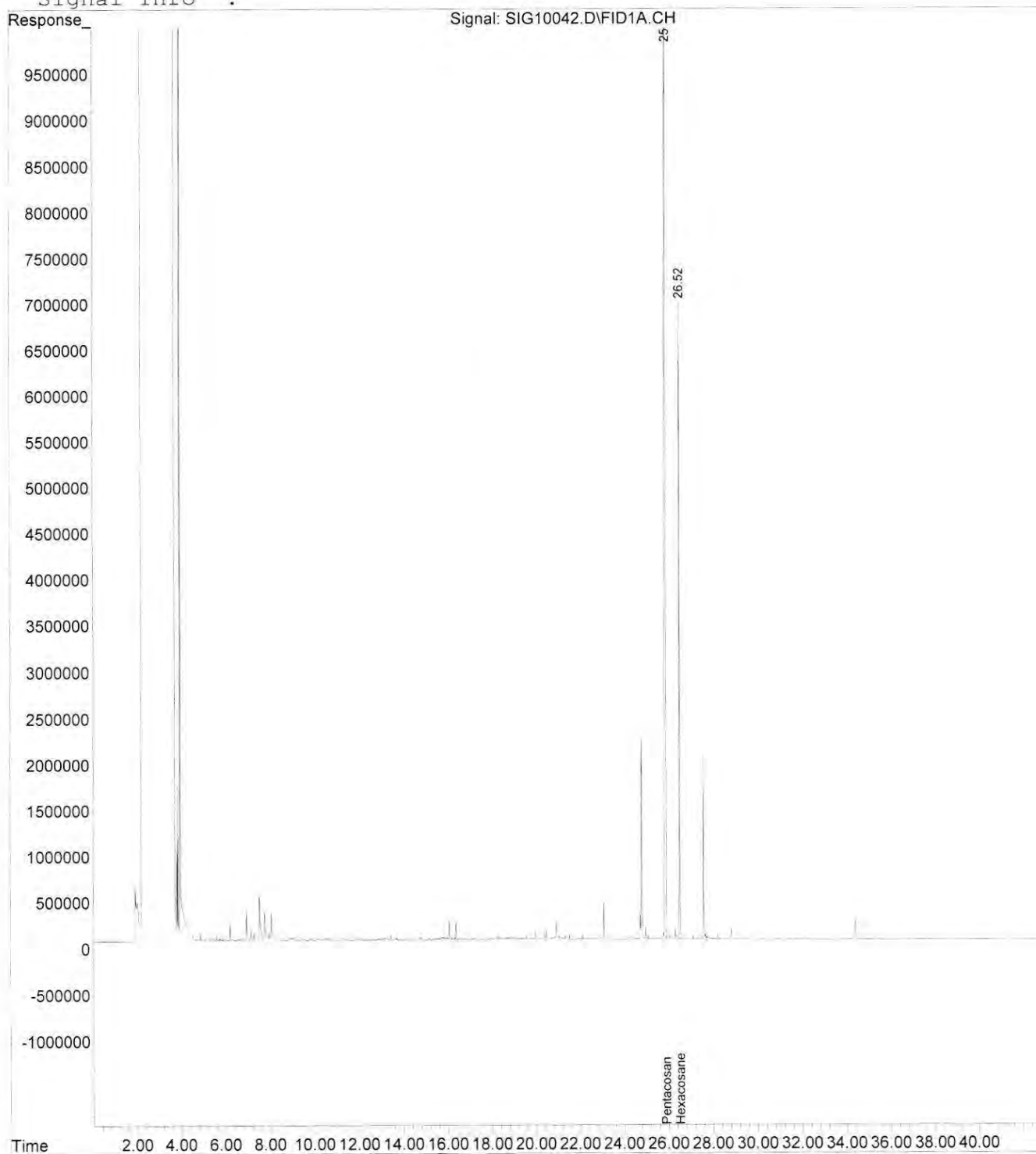
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.90	439440342	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	109316384	21.687 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 43.37%#
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10042.D Vial: 44
Acq On : 08 May 2024 5:02 Operator: ARY
Sample : WED0874-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jun 21 10:21 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\062024B\SIG10006.D Vial: 17
 Acq On : 21 Jun 2024 15:21 Operator: ARY/BAM
 Sample : WED0874-13 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jun 21 16:36:50 2024 Quant Results File: 240618DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\240618DHT.M (Chemstation Integrator)
 Title :
 Last Update : Thu Jun 20 13:50:38 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

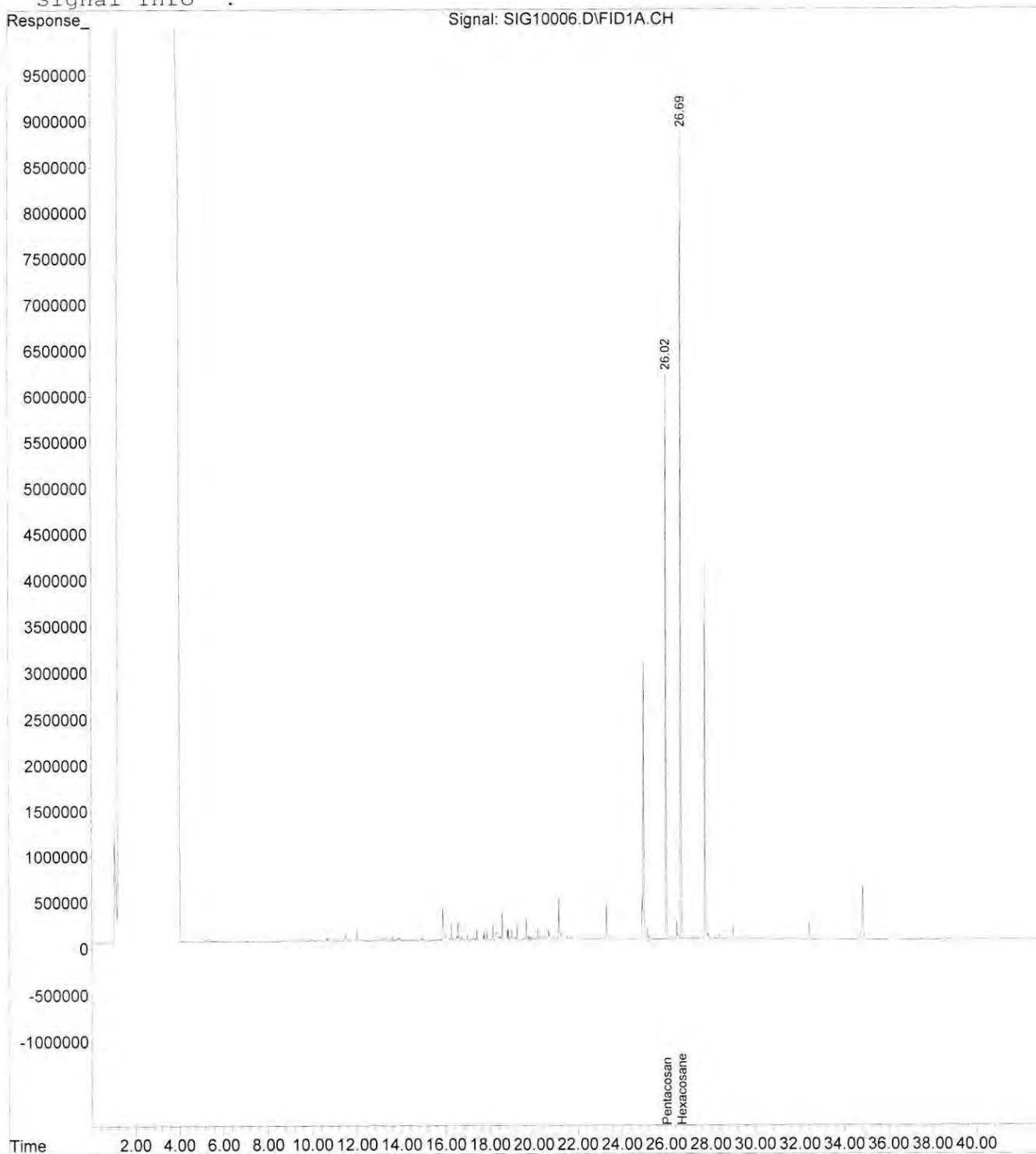
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.02	129103892	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.69	190955857	44.236 ppm
Spiked Amount 50.000	Range 50 - 150	Recovery =	88.47%
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

Data File : M:\HPCHEM\1\2024DATA\062024B\SIG10006.D Vial: 17
Acq On : 21 Jun 2024 15:21 Operator: ARY/BAM
Sample : WED0874-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jun 21 16:39 2024 Quant Results File: 240618DHT.RES

Quant Method : M:\HPCHEM\1\METHODS\240618DHT.M (Chemstation Integrator)
Title :
Last Update : Thu Jun 20 13:50:38 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10035.D Vial: 1
 Acq On : 07 May 2024 22:40 Operator: ARY
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:15 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

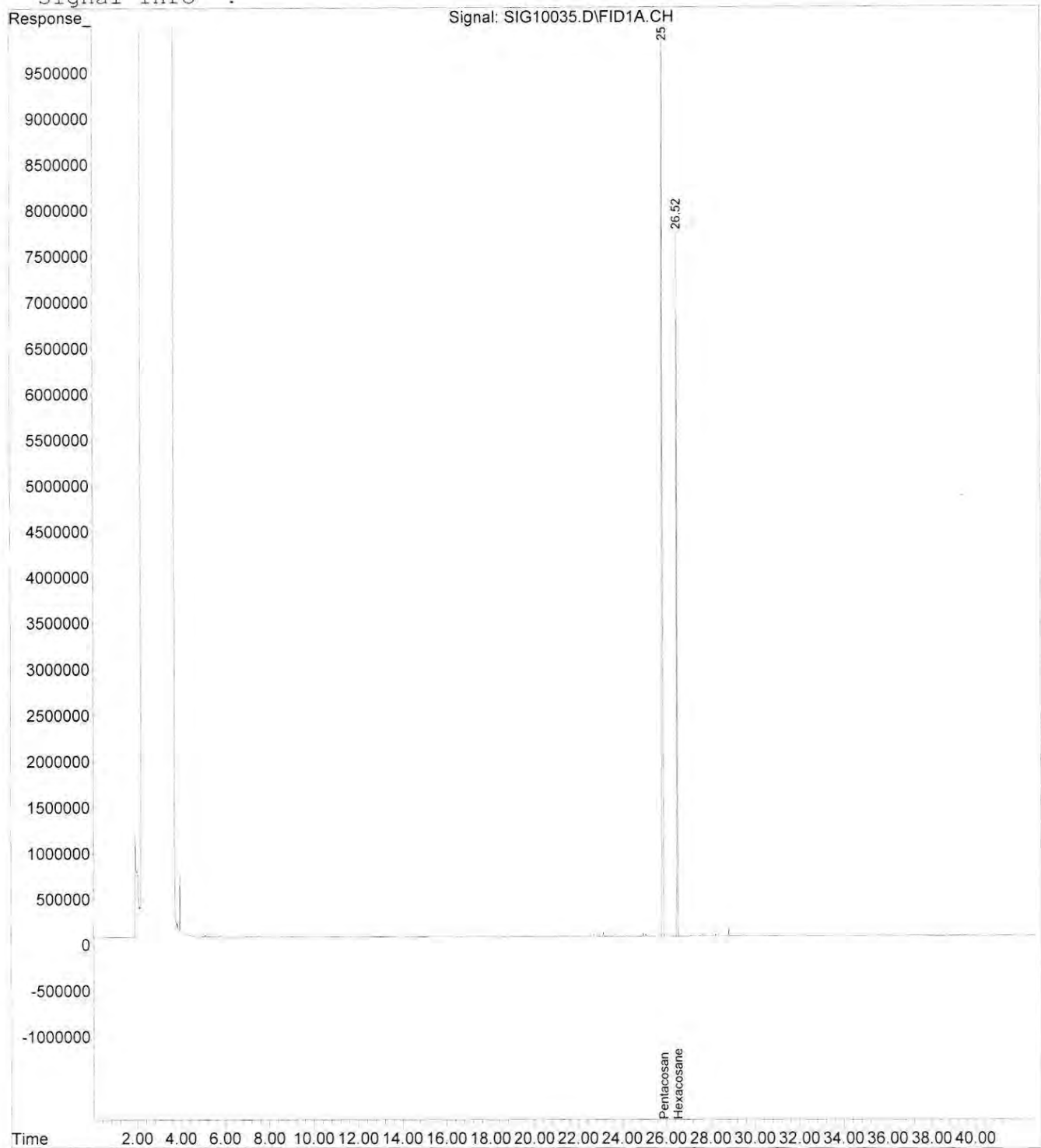
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	267357051	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.52	135937939	44.325 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	88.65%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10035.D Vial: 1
Acq On : 07 May 2024 22:40 Operator: ARY
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:38 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10036.D Vial: 2
 Acq On : 07 May 2024 23:34 Operator: ARY
 Sample : DX 500 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:16 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

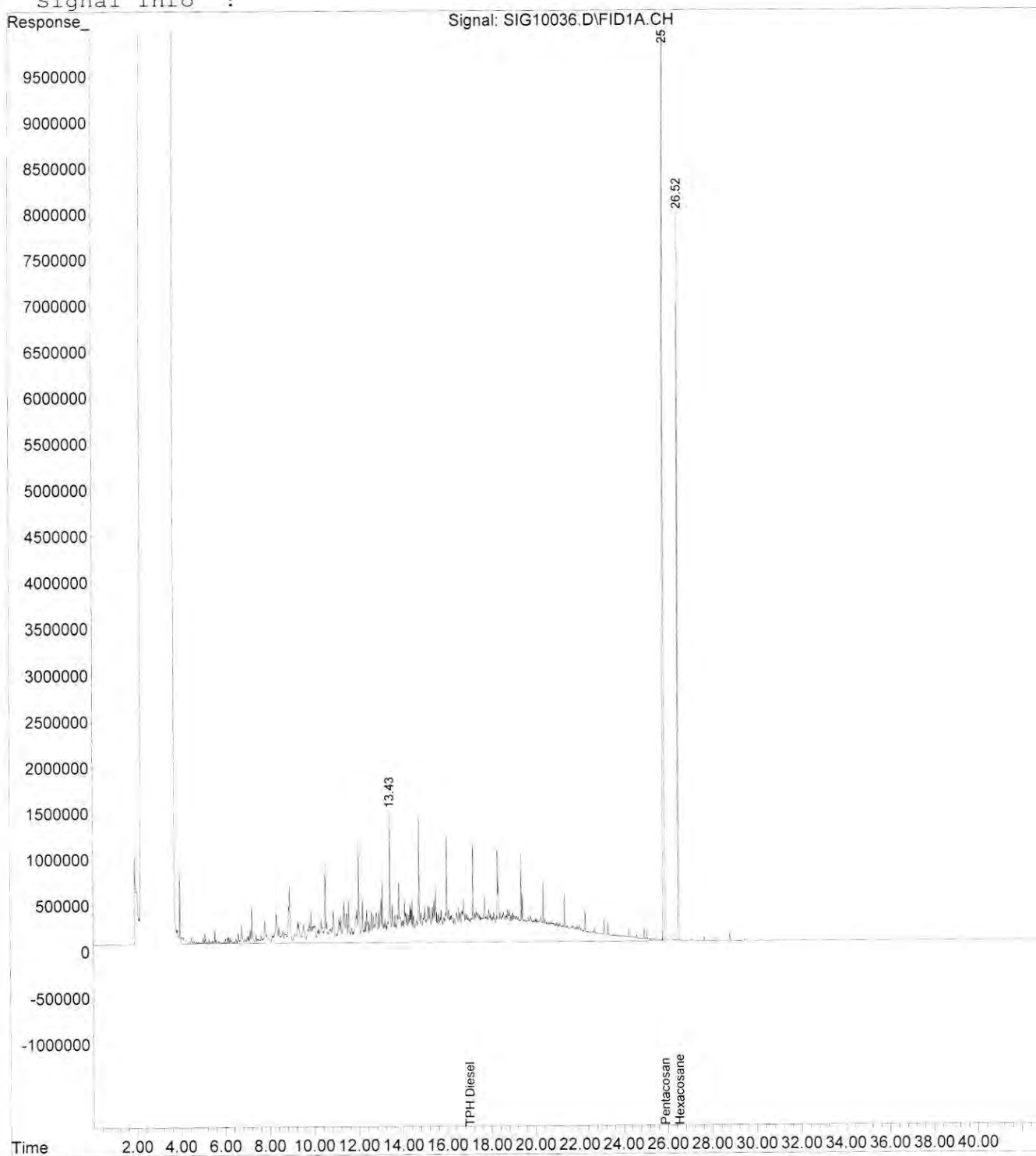
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	271931733	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	144166949	46.218 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 92.44%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	2124384403	547.101 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10036.D Vial: 2
Acq On : 07 May 2024 23:34 Operator: ARY
Sample : DX 500 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:39 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10037.D Vial: 3
 Acq On : 08 May 2024 00:29 Operator: ARY
 Sample : LO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:18 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

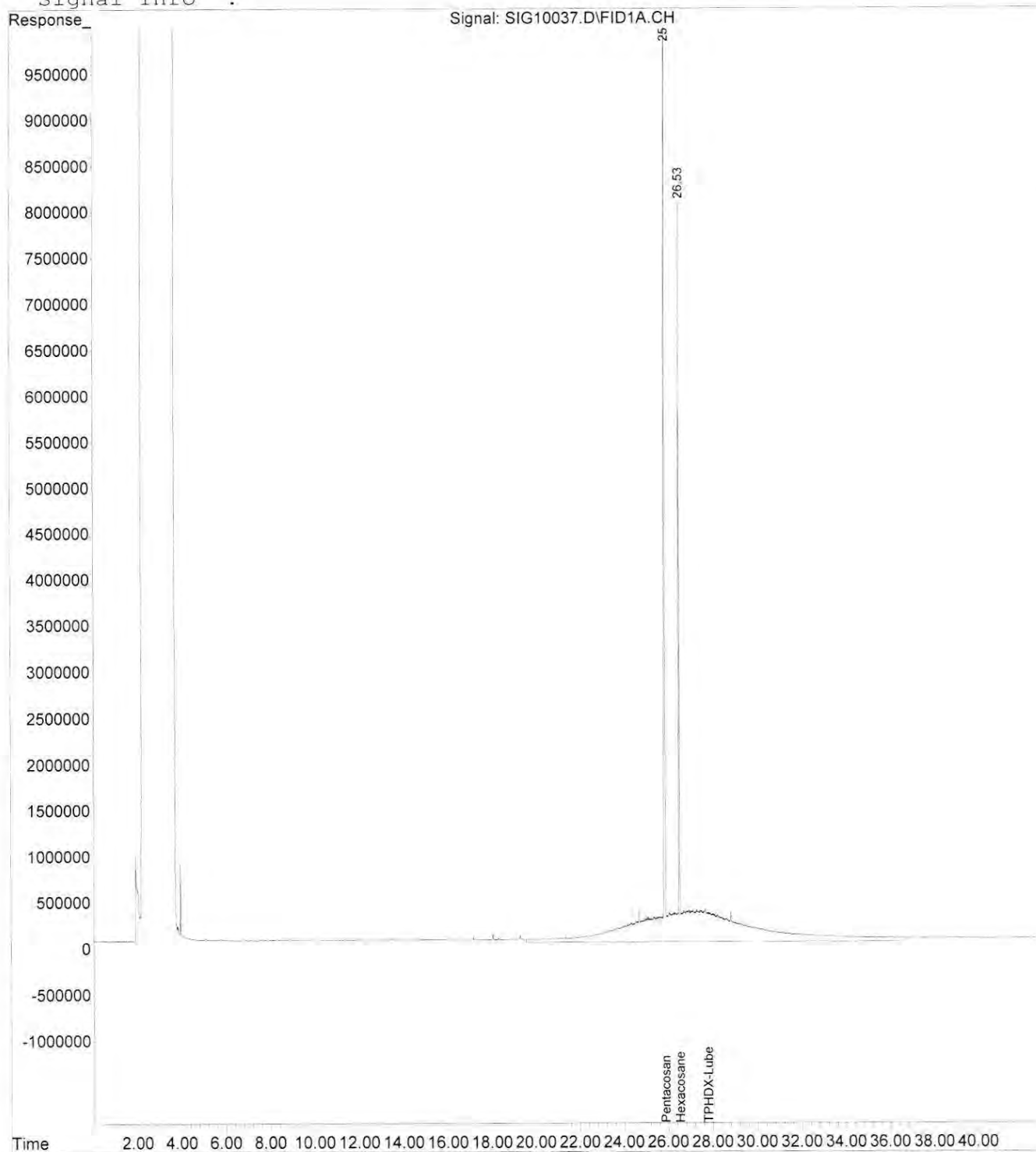
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	297934103	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	154964940	45.344 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 90.69%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	27.80	1338092261	901.096 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10037.D Vial: 3
Acq On : 08 May 2024 00:29 Operator: ARY
Sample : LO 1000 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 13 8:09 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10038.D Vial: 4
 Acq On : 08 May 2024 1:24 Operator: ARY
 Sample : MO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:19 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

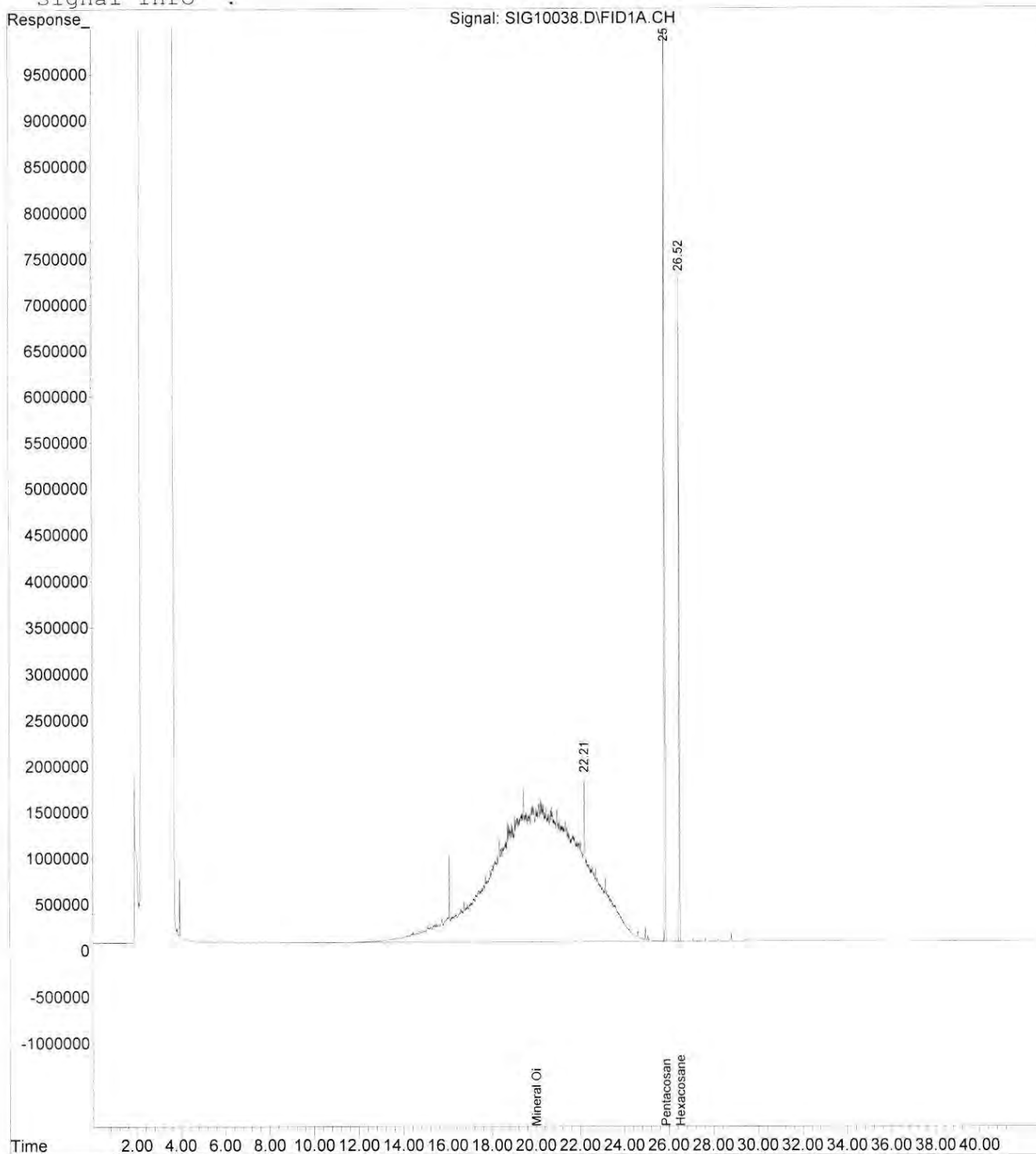
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.88	253072101	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.52	130585325	44.984	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 89.97%
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	20.00	4419465455	1043.869	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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10038.D Vial: 4
 Acq On : 08 May 2024 1:24 Operator: ARY
 Sample : MO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 8 14:44 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Multiple Level Calibration
 DataAcq Meth : DXHCID5.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10039.D Vial: 5
 Acq On : 08 May 2024 2:19 Operator: ARY
 Sample : GAS 40 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:20 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

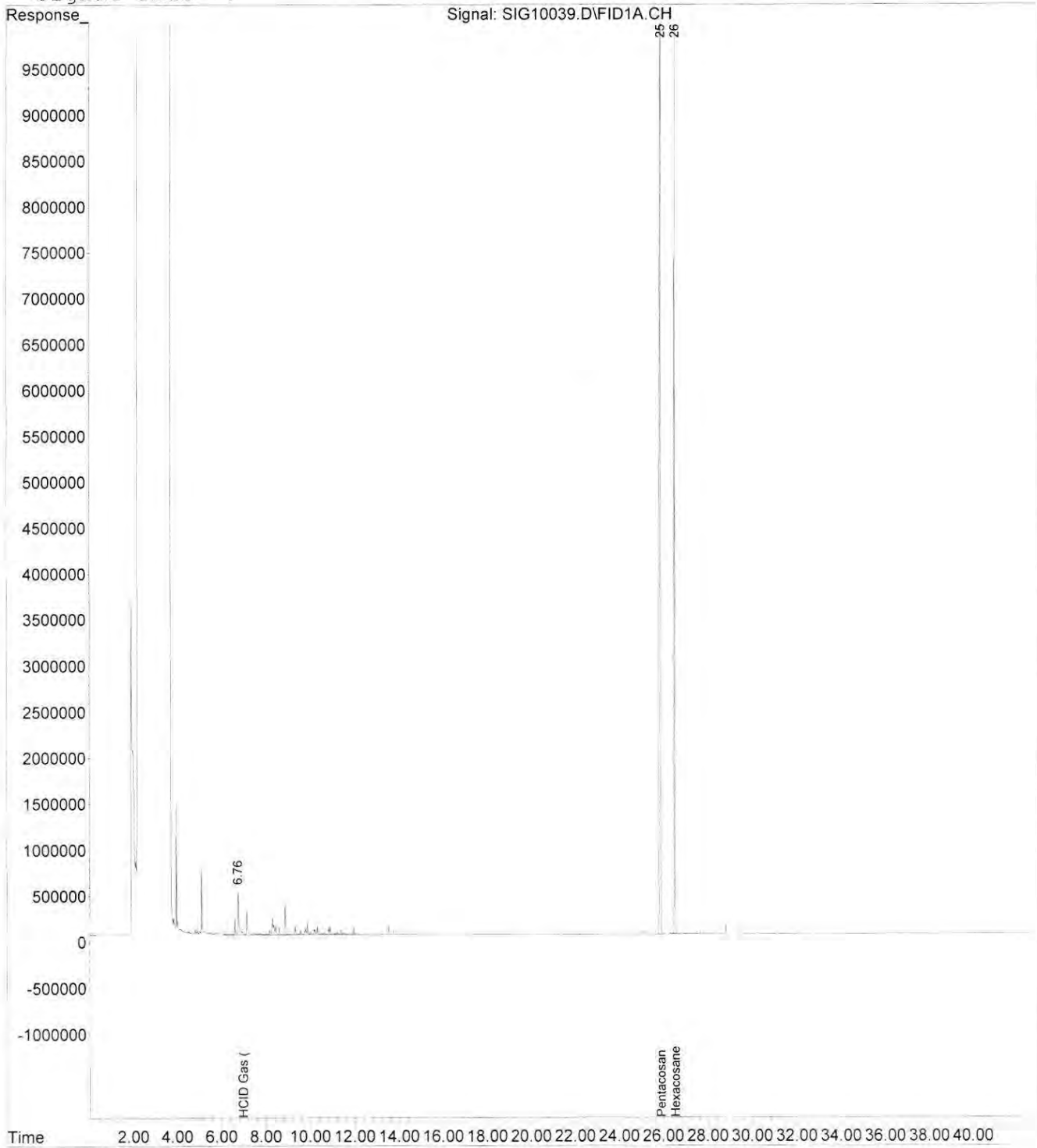
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.90	385393343	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	209052042	47.288 ppm m
Spiked Amount	50.000	Recovery =	94.58%
Range 50 - 150			
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)	7.00	88811144	37.180 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10039.D Vial: 5
Acq On : 08 May 2024 2:19 Operator: ARY
Sample : GAS 40 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:45 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10040.D Vial: 6
 Acq On : 08 May 2024 3:13 Operator: ARY
 Sample : ICV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:22 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

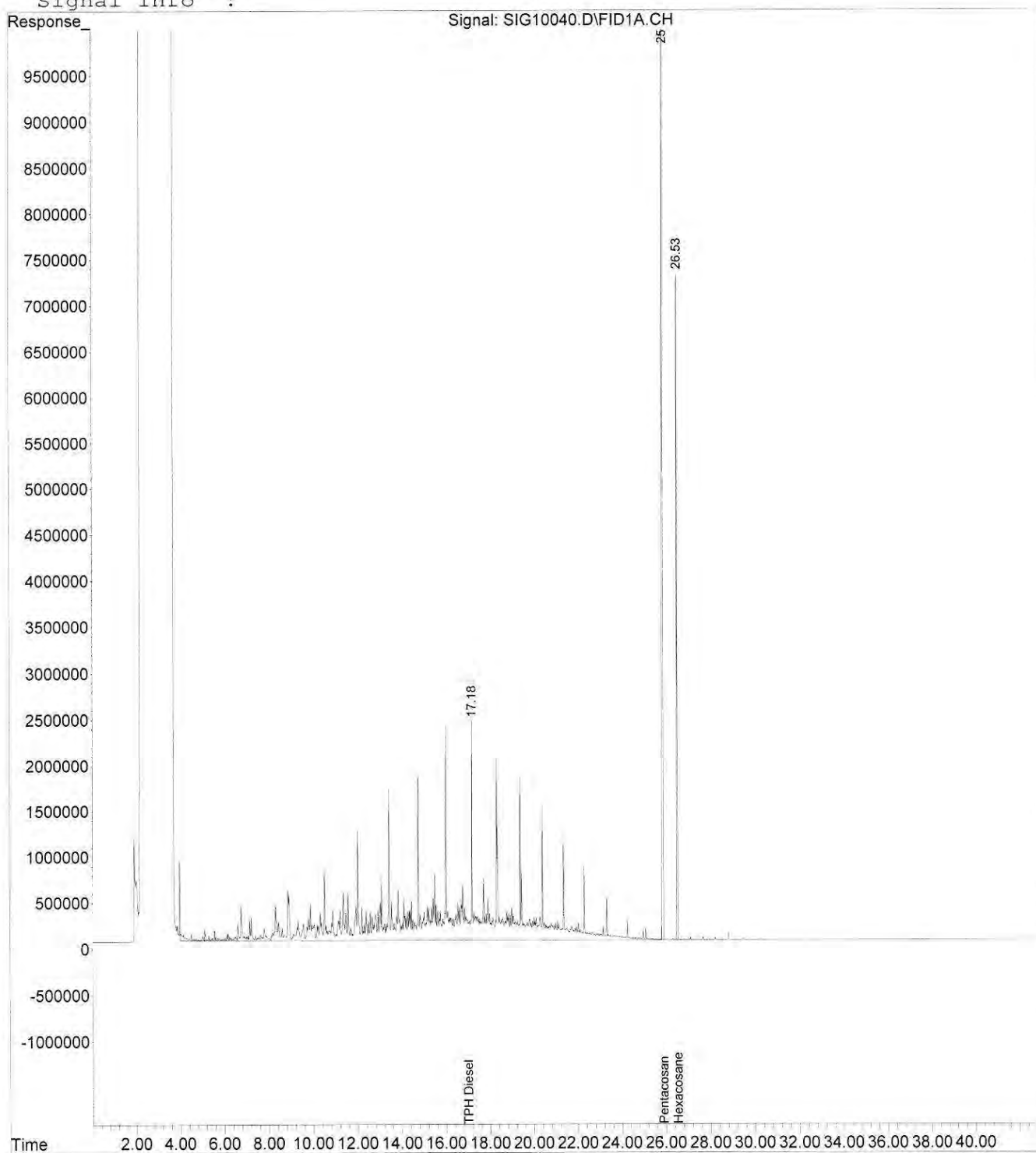
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	292169632	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	145651869	43.460 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	86.92%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	1901110024	455.687 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10040.D Vial: 6
Acq On : 08 May 2024 3:13 Operator: ARY
Sample : ICV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:46 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10044.D Vial: 1
 Acq On : 08 May 2024 6:51 Operator: ARY
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:28 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

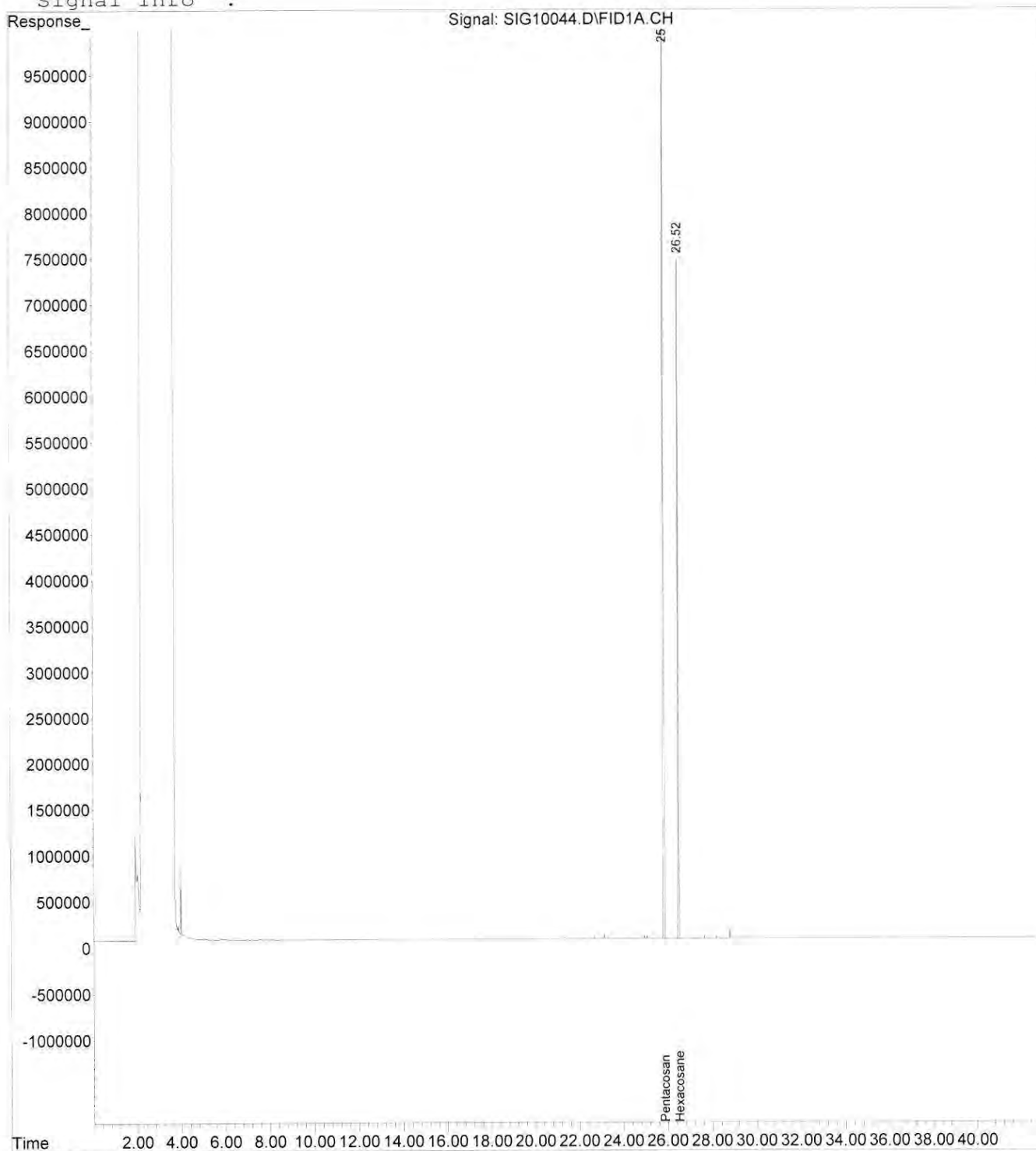
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.87	284867630	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	144070785	44.090 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 88.18%
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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10044.D Vial: 1
Acq On : 08 May 2024 6:51 Operator: ARY
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:50 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10045.D Vial: 2
 Acq On : 08 May 2024 7:46 Operator: ARY
 Sample : DX 500 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:29 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

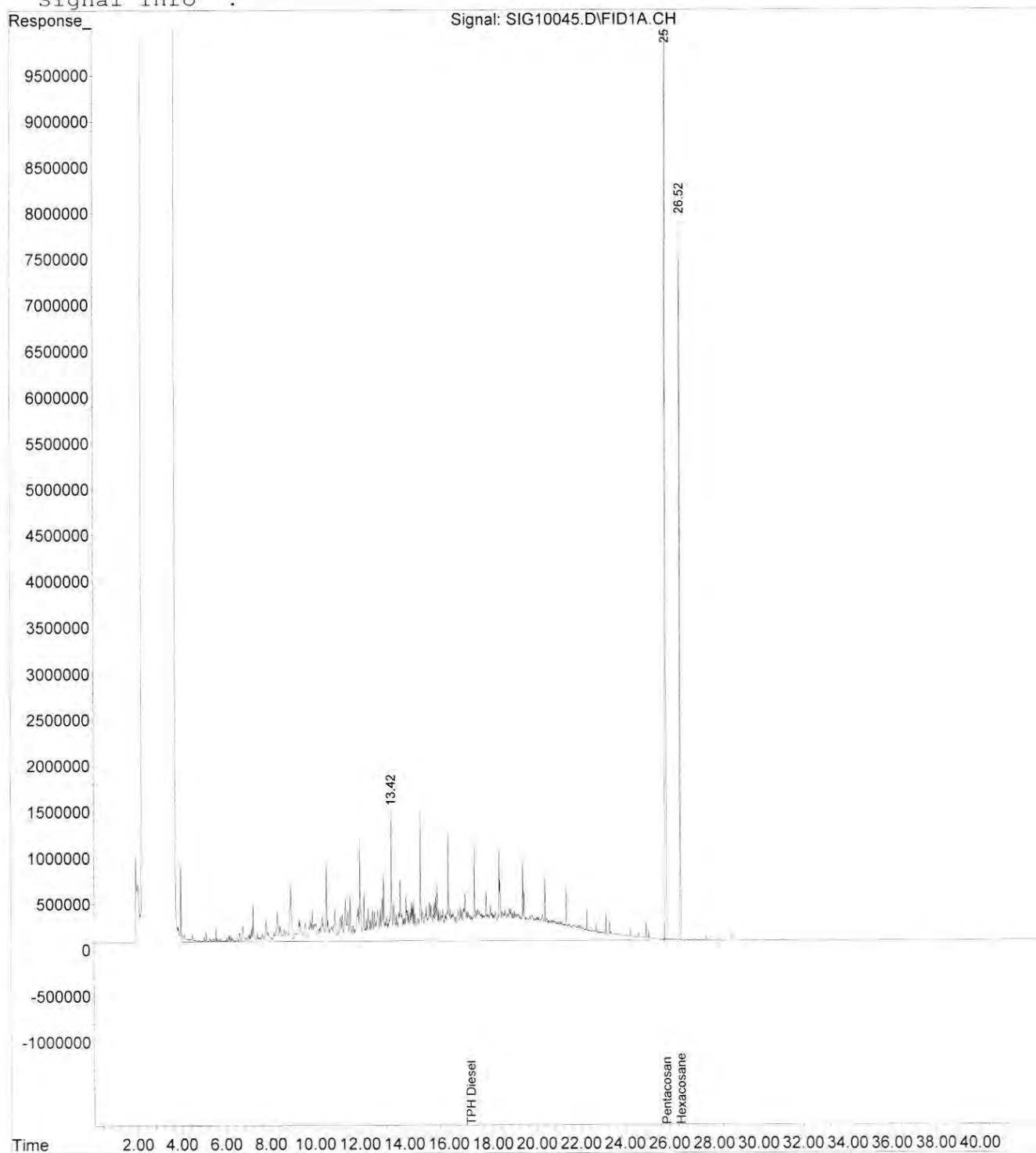
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	276732518	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	145954850	45.979 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 91.96%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	2215066289	560.558 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10045.D Vial: 2
Acq On : 08 May 2024 7:46 Operator: ARY
Sample : DX 500 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:51 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10046.D Vial: 3
 Acq On : 08 May 2024 8:41 Operator: ARY
 Sample : LO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:31 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

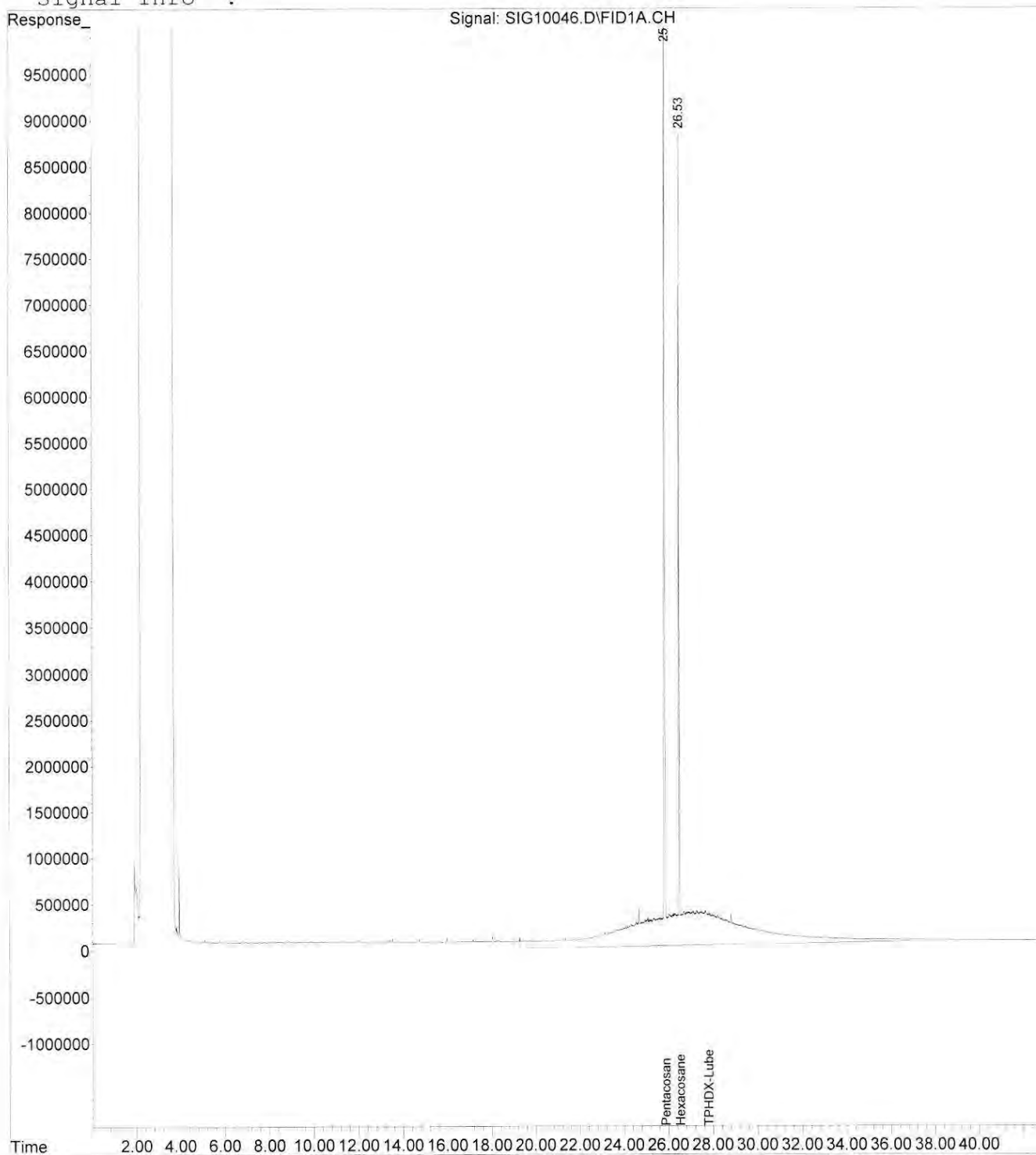
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	308245652	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	160319416	45.341 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 90.68%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	27.80	1503021885	978.303 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10046.D Vial: 3
Acq On : 08 May 2024 8:41 Operator: ARY
Sample : LO 1000 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 13 8:10 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10047.D Vial: 4
 Acq On : 08 May 2024 9:36 Operator: ARY
 Sample : MO 1000 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:32 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

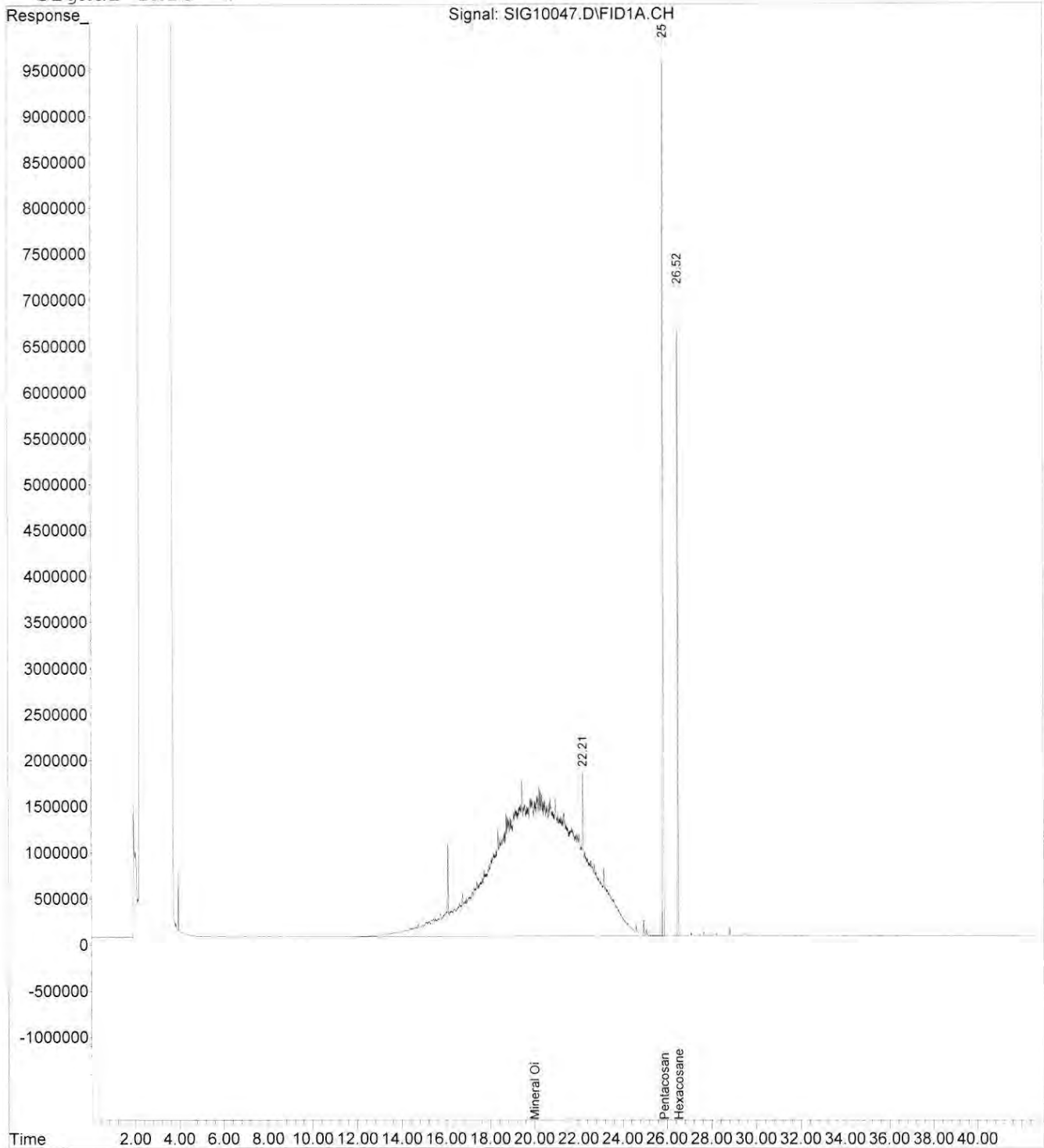
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	25.87	254195704	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	26.52	130720922	44.831	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 89.66%
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	20.00	4491695534	1056.240	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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10047.D Vial: 4
Acq On : 08 May 2024 9:36 Operator: ARY
Sample : MO 1000 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:52 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10048.D Vial: 5
 Acq On : 08 May 2024 10:31 Operator: ARY
 Sample : GAS 40 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:34 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

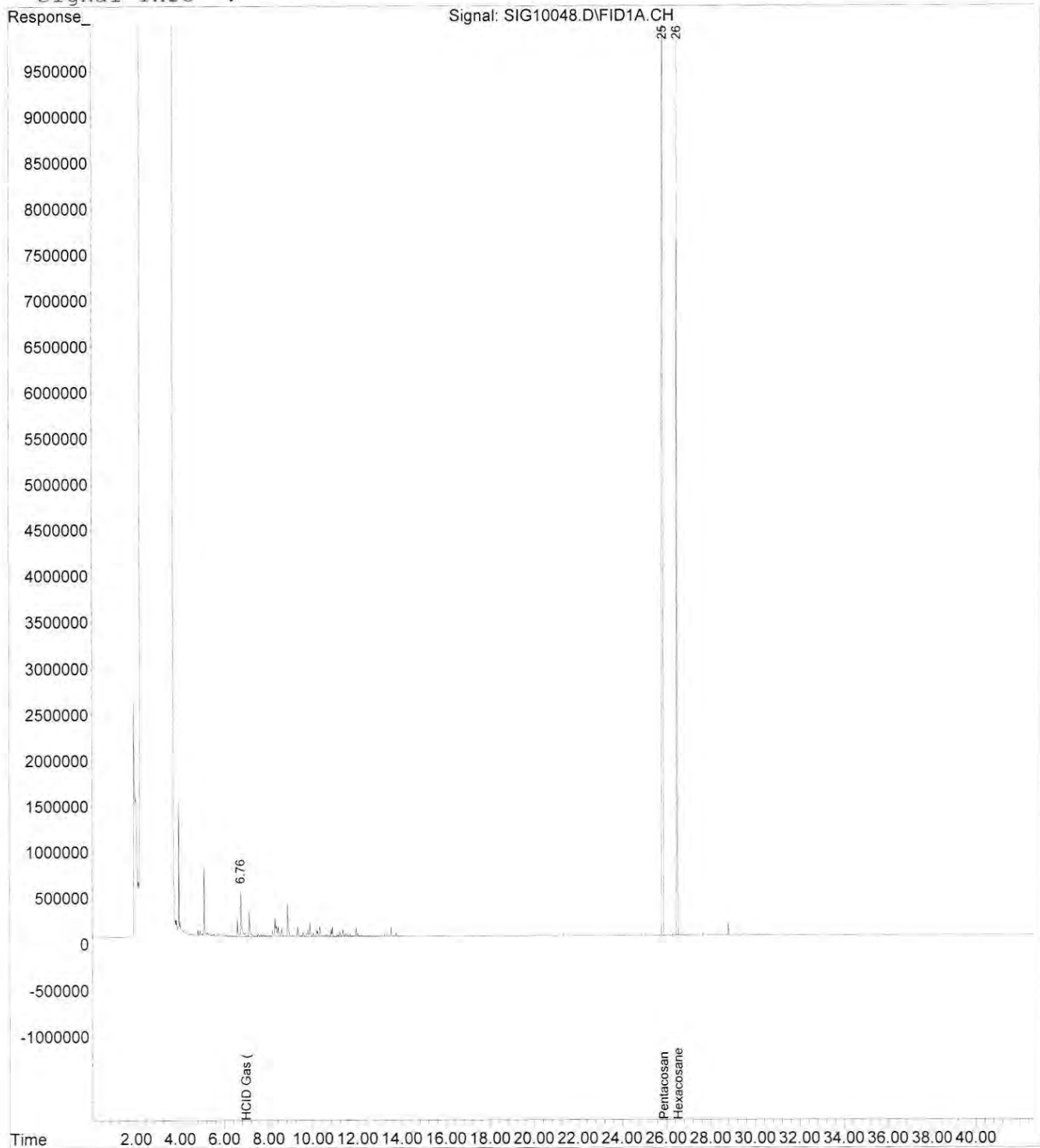
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.89	411806471	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.53	223110398	47.231 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	94.46%
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)	7.00	94390267	36.981 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10048.D Vial: 5
Acq On : 08 May 2024 10:31 Operator: ARY
Sample : GAS 40 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:53 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : M:\HPCHEM\1\2024DATA\050624\SIG10049.D Vial: 6
 Acq On : 08 May 2024 11:26 Operator: ARY
 Sample : ICV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: May 08 13:41:36 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 15 08:46:08 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

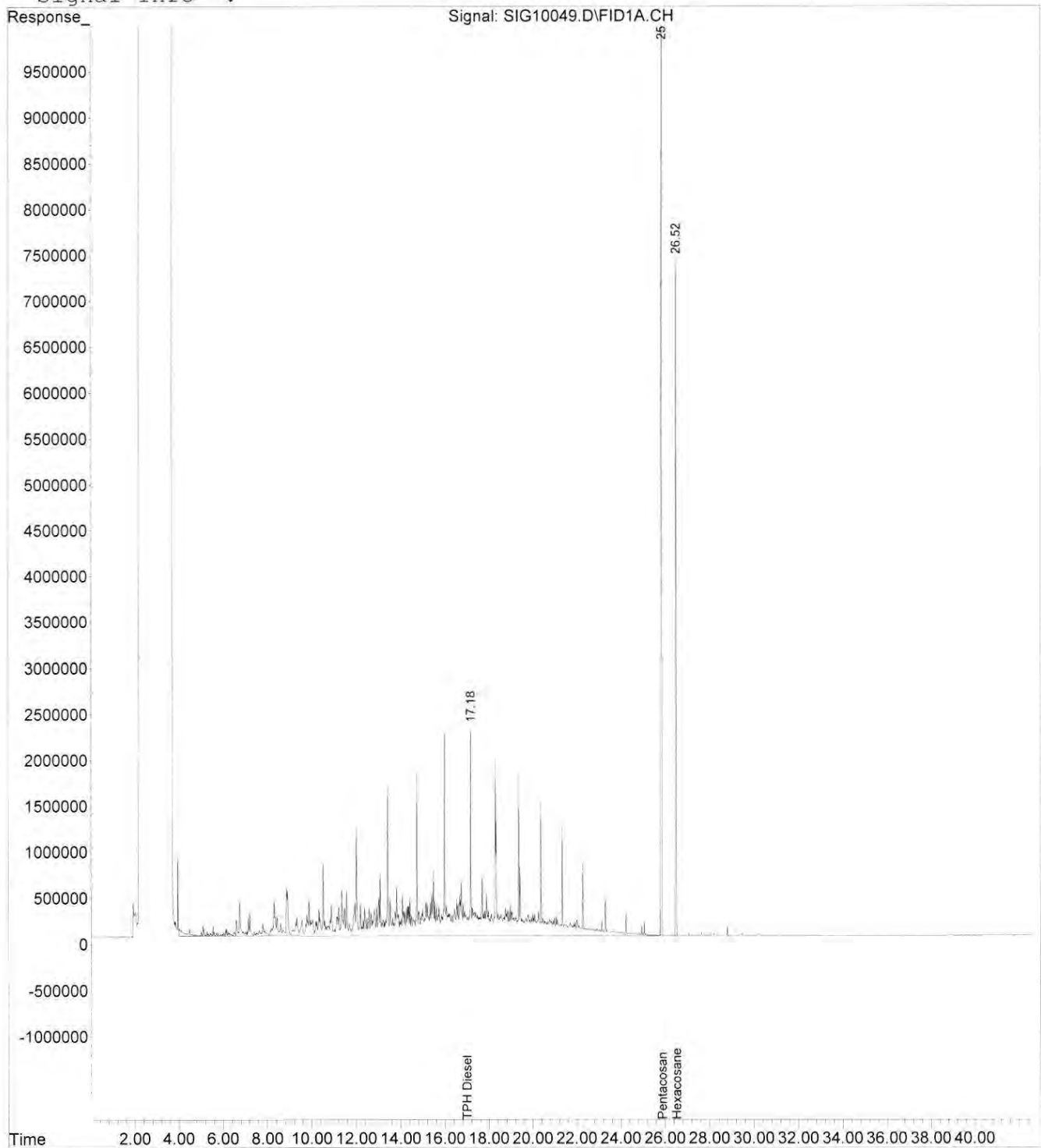
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.88	286509362	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	26.52	142650083	43.405 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 86.81%
Target Compounds			
3) H TPH Diesel (C12-C14)	17.00	1876846411	458.758 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

Data File : M:\HPCHEM\1\2024DATA\050624\SIG10049.D Vial: 6
Acq On : 08 May 2024 11:26 Operator: ARY
Sample : ICV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: May 8 14:54 2024 Quant Results File: 040824C.RES

Quant Method : W:\HPCHEM\1\METHODS\040824C.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 15 08:46:08 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :





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

Report Number: P240479
Report Date: May 08, 2024
Client Project ID: WED0874

Analytical Report

Client Sample ID: **WW-3**
Matrix: water

PAL Sample ID: P240479-01
Sample Date: 4/12/24
Received Date: 4/24/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
4/30/24	4/30/24	Diquat	ND	10 ug/L	
4/30/24	4/30/24	Paraquat	ND	10 ug/L	

Client Sample ID: **E-1**
Matrix: water

PAL Sample ID: P240479-02
Sample Date: 4/12/24
Received Date: 4/24/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					H1
4/30/24	4/30/24	Diquat	ND	10 ug/L	
4/30/24	4/30/24	Paraquat	ND	10 ug/L	

Kara Greer, Project Manager

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

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

Report Number: P240479
Report Date: May 08, 2024
Client Project ID: WED0874

Quality Assurance

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/30/24	4/30/24	24D3005-BLK1	Diquat	Not Detected	< 10 ug/L	
4/30/24	4/30/24	24D3005-BLK1	Paraquat	Not Detected	< 10 ug/L	

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/30/24	4/30/24	24D3005-BS1	Diquat	102	60-140	
4/30/24	4/30/24	24D3005-BSD1	Diquat	105	60-140	
4/30/24	4/30/24	24D3005-BS1	Paraquat	100	60-140	
4/30/24	4/30/24	24D3005-BSD1	Paraquat	95	60-140	

Matrix Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/30/24	4/30/24	24D3005-MS1	Diquat	100	60-140	
4/30/24	4/30/24	24D3005-MSD1	Diquat	104	60-140	
4/30/24	4/30/24	24D3005-MS1	Paraquat	98	60-140	
4/30/24	4/30/24	24D3005-MSD1	Paraquat	100	60-140	

Duplicate Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	Sample Result	Duplicate Result	RPD	Notes
4/30/24	4/30/24	24D3005-DUP1	Diquat	ND	ND	0	
4/30/24	4/30/24	24D3005-DUP1	Paraquat	ND	ND	0	

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

Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\04192024 Hg.wszf

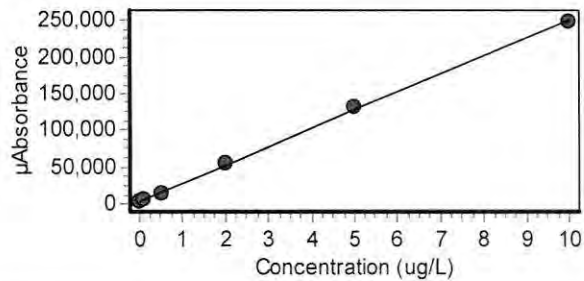
Creation Date: 4/19/2024 10:25:40 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	04/19/24 11:23:50 am	0.000	2794	1.03	-40.84		N/A
Replicates		2801.2 2763.5 2780.5 2830.2						
Standard #1 (0.1 ug/L)	STD	04/19/24 11:26:21 am	0.100	4896	1.46	-55.84		N/A
Replicates		4835.0 4839.2 4926.2 4982.4						
Standard #2 (0.5 ug/L)	STD	04/19/24 11:28:53 am	0.500	14546	1.45	-65.55		N/A
Replicates		14371.9 14390.5 14598.7 14822.5						
Standard #3 (2.0 ug/L)	STD	04/19/24 11:31:25 am	2.000	55857	1.75	105.18		N/A
Replicates		54934.2 55299.7 56038.9 57154.7						
Standard #4 (5.0 ug/L)	STD	04/19/24 11:33:57 am	5.000	131107	2.04	148.50		N/A
Replicates		128495.3 129585.2 131815.7 134531.4						
Standard #5 (10.0 ug/L)	STD	04/19/24 11:36:29 am	10.000	248805	2.03	-91.45		N/A
Replicates		243852.6 245855.7 250331.7 25181.4						

Calibration
 Equation: $A = 3803.642 + 24726.287C$
 R2: 0.99935
 SEE: 2779.9080
 Flags:



ICV	ICV	04/19/24 11:39:58 am	-0.147	160	1.17	Q	-3.68
Replicates		223.5 138.3 141.1 135.3					
CCV (95-105%)	OPR	04/19/24 11:42:30 am	5.190	132159	1.51		103.82
Replicates		130332.9 130992.9 132629.6 134678.7					
CCB	CCB	04/19/24 11:45:01 am	-0.031	3033	5.23		N/A
Replicates		2988.0 3025.7 3031.6 3085.9					
ICV	ICV	04/19/24 11:47:32 am	4.470	114411	1.51		111.83
Replicates		112603.7 113532.2 115129.0 116377.2					
BLANK	MB	04/19/24 11:50:03 am	-0.128	627	0.49		N/A
Replicates		629.4 618.0 611.6 647.5					
	UNK	04/19/24 11:52:34 am	4.760	121455	2.13		N/A
Replicates		118466.3 120493.1 122643.6 124216.9					
LCS	LCS	04/19/24 11:55:05 am	4.420	113039	1.89		110.44
Replicates		110702.4 112082.9 113966.0 115403.0					

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
ICV	ICV	04/19/24 11:57:36 am	6.370	161297	2.17	Q		159.24
Replicates		157396.2 159825.4 162680.9 165283.5						
MED0095-01	UNK	04/19/24 12:00:07 pm	-0.126	692	0.29			N/A
Replicates		705.8 688.0 689.3 686.1						
WED0491-02	UNK	04/19/24 12:02:40 pm	-0.115	961	0.45			N/A
Replicates		947.8 960.3 958.6 978.8						
MS1	UNK	04/19/24 12:05:11 pm	5.220	132818	0.62			N/A
Replicates		132115.3 132221.2 133113.5 133821.5						
MSD1	UNK	04/19/24 12:07:43 pm	5.250	133668	0.52			N/A
Replicates		133062.6 133211.8 133860.8 134535.1						
ICV	ICV	04/19/24 12:10:13 pm	5.930	150465	0.92	Q		148.28
Replicates		149119.2 149657.0 150973.8 152110.3						
WED0491-03	UNK	04/19/24 12:12:45 pm	-0.138	386	0.21			N/A
Replicates		386.8 395.5 378.5 382.6						
WED0491-04	UNK	04/19/24 12:15:17 pm	-0.129	626	0.31			N/A
Replicates		623.9 626.4 638.9 615.1						
BLANK	UNK	04/19/24 12:17:49 pm	-0.022	3262	10.87			N/A
Replicates		3206.2 3216.7 3302.9 3321.7						
MDL 0.1 PPB 1	UNK	04/19/24 12:20:20 pm	0.059	5270	8.49			N/A
Replicates		5147.3 5188.9 5324.4 5417.9						
MDL 0.1 PPB 2	UNK	04/19/24 12:22:51 pm	0.060	5287	6.03			N/A
Replicates		5200.0 5237.0 5309.5 5402.8						
MDL 0.1 PPB 3	UNK	04/19/24 12:25:23 pm	0.063	5367	7.20			N/A
Replicates		5223.7 5345.1 5409.6 5490.3						
ICV	ICV	04/19/24 12:27:54 pm	5.180	131906	1.29	Q		129.52
Replicates		130065.2 131094.4 132647.7 133817.4						
WED0491-05	UNK	04/19/24 12:30:26 pm	-0.136	445	0.38			N/A
Replicates		461.0 431.5 449.3 439.0						
WED0491-06	UNK	04/19/24 12:32:58 pm	-0.135	475	0.55			N/A
Replicates		457.7 495.1 461.2 485.2						
WED0601-01	UNK	04/19/24 12:35:31 pm	-0.127	673	0.52			N/A
Replicates		683.7 689.3 663.2 655.0						
WED0601-02	UNK	04/19/24 12:38:02 pm	-0.120	829	0.51			N/A
Replicates		816.6 817.5 848.4 833.4						
WED0601-03	UNK	04/19/24 12:40:33 pm	-0.121	807	0.43			N/A
Replicates		798.0 801.2 802.7 826.0						
WED0601-04	UNK	04/19/24 12:43:04 pm	-0.138	392	0.38			N/A
Replicates		388.9 384.2 383.7 411.2						
WED0604-01	UNK	04/19/24 12:45:35 pm	-0.144	235	0.51			N/A
Replicates		251.9 247.7 213.2 227.2						

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
WED0668-01	UNK	04/19/24 12:48:07 pm	-0.128	644	0.17			N/A
Replicates		643.9 650.4 637.4 643.3						
WED0668-02	UNK	04/19/24 12:50:38 pm	-0.127	672	0.22			N/A
Replicates		678.0 661.8 673.0 674.5						
WED0725-01	UNK	04/19/24 12:53:10 pm	-0.119	855	0.26			N/A
Replicates		865.6 851.9 847.3 854.4						
WED0725-02	UNK	04/19/24 12:55:42 pm	-0.123	771	0.21			N/A
Replicates		763.7 778.8 770.5 772.5						
WED0836-01	UNK	04/19/24 12:58:14 pm	-0.123	759	0.51			N/A
Replicates		742.3 753.7 761.5 779.5						
WED0836-02	UNK	04/19/24 01:00:46 pm	-0.119	869	0.37			N/A
Replicates		853.6 875.4 877.7 868.4						
MS2	UNK	04/19/24 01:03:19 pm	5.350	136189	1.86			N/A
Replicates		133368.7 135154.5 137170.3 139062.3						
MSD2	UNK	04/19/24 01:05:51 pm	5.470	139165	1.39			N/A
Replicates		136761.1 138675.9 140156.9 141065.8						
WED0666-01@10	UNK	04/19/24 01:08:22 pm	0.991	28310	5.93			N/A
Replicates		27342.1 27251.2 28269.2 30375.7						
WED0666-01	UNK	04/19/24 01:10:53 pm	O/R	275683	1.48	O		N/A
Replicates		270656.3 274519.4 277568.9 279988.2						
BLK	UNK	04/19/24 01:15:51 pm	-0.131	562	0.25			N/A
Replicates		566.2 569.9 551.6 559.2						
LCS	UNK	04/19/24 01:18:22 pm	4.960	126350	1.96			N/A
Replicates		123506.6 125477.2 127311.5 129104.0						
BLANK	UNK	04/19/24 01:20:53 pm	-0.035	2941	6.08			N/A
Replicates		2877.8 2924.0 2960.9 3000.9						
CK	UNK	04/19/24 01:23:25 pm	5.620	142725	2.00			N/A
Replicates		139229.3 141959.4 144087.0 145622.9						
CK2	UNK	04/19/24 01:48:34 pm	2.400	63233	1.97			N/A
Replicates		61867.1 62718.9 63837.7 64509.4						
CK	UNK	04/19/24 01:53:35 pm	0.509	16396	1.57			N/A
Replicates		16137.1 16350.1 16516.9 16578.7						
BLANK	UNK	04/19/24 03:23:46 pm	-0.130	581	0.22			N/A
Replicates		585.4 574.4 588.9 575.4						
LCS	UNK	04/19/24 03:26:17 pm	5.550	140921	1.33			N/A
Replicates		138446.9 141942.6 142584.3 140708.4						
WED0874-01	UNK	04/19/24 03:28:48 pm	-0.102	1282	8.24			N/A
Replicates		1517.9 1354.3 1229.6 1025.3						
WED0874-02	UNK	04/19/24 03:31:20 pm	-0.082	1769	1.83			N/A
Replicates		1771.6 1804.2 1782.7 1716.7						

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	% Recovery
WED0874-03	UNK	04/19/24 03:33:51 pm	-0.118	888	2.14			N/A
Replicates		954.5 920.7 863.6 813.4						
MS1	UNK	04/19/24 03:36:22 pm	3.880	99834	2.21			N/A
Replicates		100721.3 101599.5 100258.8 96756.3						
MSD1	UNK	04/19/24 03:38:54 pm	2.520	66077	6.10			N/A
Replicates		70615.1 67479.0 64349.8 61864.3						
WED0874-04	UNK	04/19/24 03:41:26 pm	-0.109	1103	5.92			N/A
Replicates		1307.2 1144.2 1020.7 939.8						
WED0874-06	UNK	04/19/24 03:43:58 pm	-0.162	-201	0.58			N/A
Replicates		-219.4 -197.8 -168.9 -216.4						
WED0874-07	UNK	04/19/24 03:46:30 pm	-0.140	330	0.47			N/A
Replicates		330.3 334.7 346.0 307.4						
WED0874-08	UNK	04/19/24 03:49:03 pm	-0.131	570	0.60			N/A
Replicates		570.0 585.3 583.5 543.0						
WED0874-09	UNK	04/19/24 03:51:35 pm	-0.138	388	0.52			N/A
Replicates		409.6 396.6 372.7 374.7						
WED0874-10	UNK	04/19/24 03:54:06 pm	-0.078	1870	2.50			N/A
Replicates		1828.5 1906.8 1916.6 1828.1						
BLANK	UNK	04/19/24 03:56:37 pm	-0.088	1619	1.27			N/A
Replicates		1604.9 1634.3 1649.0 1587.5						
CK	UNK	04/19/24 03:59:09 pm	3.280	85028	1.82			N/A
Replicates		83458.4 86141.6 86425.3 84088.5						
WED0874-11	UNK	04/19/24 04:01:40 pm	-0.162	-191	4.63			N/A
Replicates		-11.8 -87.0 -233.8 -431.1						
WED0874-12	UNK	04/19/24 04:04:12 pm	-0.140	351	0.21			N/A
Replicates		351.7 347.6 360.0 343.3						
WED0874-13	UNK	04/19/24 04:06:43 pm	-0.155	-29	0.36			N/A
Replicates		-42.1 -9.6 -30.4 -32.6						
MS2	UNK	04/19/24 04:09:14 pm	3.160	81908	1.56			N/A
Replicates		80488.9 82770.9 83068.2 81305.4						
MSD2	UNK	04/19/24 04:11:46 pm	3.430	88642	1.92			N/A
Replicates		88783.0 90122.8 89324.6 86337.6						
BLANK	UNK	04/19/24 04:14:18 pm	-0.173	-464	4.45			N/A
Replicates		-267.4 -377.4 -502.6 -710.4						
LCS	UNK	04/19/24 04:16:50 pm	3.710	95437	1.60			N/A
Replicates		94888.9 96857.9 96370.0 93629.7						
BLK	UNK	04/19/24 04:19:21 pm	-0.140	354	7.89			N/A
Replicates		670.4 454.3 257.8 33.1						
CK	UNK	04/19/24 04:21:53 pm	0.139	7251	3.74			N/A
Replicates		7213.0 7368.9 7335.4 7085.2						

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	% Recovery
CK1	UNK	04/19/24 04:24:25 pm	0.999	28501	1.84			N/A
Replicates		27992.4 28800.0 28956.5 28254.0						

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

Batch ID: BED0801 Date: 4/18/2024 Time: 17:04 Initials: DKB
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.	2401349	100 ppm	BAL-06	5	105	2400562	T-Oven 5

Comments:

spiked MS/MSD with 50ml of TSS std Date/Time of Weigh: 4/19/24 8:25 4/19/24 9:49

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
BED0801-BLK1	Blank	B1	0.1066	1000	0.1068	0.1066	0.1			
BED0801-BLK2	Blank	B2	0.1121	1000	0.1124	0.1122	0.1	1.00	0.10	
BED0801-BS1	LCS	BS1	0.1061	100	0.1155	0.1154	1	93.00	93.00	
WED0874-01	WW-3	874-1	0.106	150	0.1091	0.1087	0.6666667	27.00	18.00	
WED0874-02	WW-6	874-2	0.1056	10	0.1188	0.1186	10	130.00	1300.00	
BED0801-DUP1	Duplicate WED0874-03	DUP1	0.1061	50	0.1199	0.1199	2	138.00	276.00	
BED0801-MS1	Matrix Spike WED0874-03	MS	0.1071	50	0.1257	0.1258	2	186.00	372.00	
BED0801-MSD1	Matrix Spike Dup WED0874-03	MSD	0.1056	50	0.1241	0.1239	2	183.00	366.00	
WED0874-03	E-1	874-3	0.1072	50	0.121	0.121	2	138.00	276.00	
WED0874-04	E-1 DUP	874-4	0.1058	50	0.1239	0.1237	2	179.00	358.00	
WED0874-06	D-2	874-6	0.1061	250	0.109	0.109	0.4	29.00	11.60	
WED0874-07	D-3	874-7	0.106	100	0.1106	0.1104	1	44.00	44.00	
WED0874-08	D-4	874-8	0.1056	30	0.1149	0.1148	3.3333333	92.00	306.67	
WED0874-09	D-6	874-9	0.1063	30	0.1106	0.1106	3.3333333	43.00	143.33	
WED0874-10	D-7	874-10	0.1056	20	0.1184	0.1186	5	128.00	640.00	
WED0874-11	D-8	874-11	0.1055	300	0.1091	0.109	0.3333333	35.00	11.67	
WED0874-12	U-2/WW-5	874-12	0.107	20	0.123	0.123	5	160.00	800.00	
WED0874-13	U-3/WW-4	874-13	0.1053	200	0.114	0.1137	0.5	84.00	42.00	



PREPARATION BENCH SHEET

Metals

BEC0901

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BEC0901-BLK1	03/25/24 10:51 - JLG	50	50				
BEC0901-BS1	03/25/24 10:51 - JLG	50	50	2301403		250	
BEC0901-CCV1	03/25/24 10:51 - JLG	50	50	2300159		250	
BEC0901-MS1	03/25/24 10:51 - JLG	50	50	2301403	WEC0864-01	250	
BEC0901-MS2	03/25/24 10:51 - JLG	50	50	2301403	WEC0864-13	250	
BEC0901-MSD1	03/25/24 10:51 - JLG	50	50	2301403	WEC0864-01	250	
BEC0901-MSD2	03/25/24 10:51 - JLG	50	50	2301403	WEC0864-13	250	
WEC0864-01	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-02	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-03	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-04	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-05	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-06	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-07	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-08	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEC0864-09	03/25/24 10:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			

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Prepared By _____ Date _____ Analytical Run Date _____

PREPARATION BENCH SHEET

Metals

BEC0901

(Continued)

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WEC0864-10	03/25/24 10:51 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							
WEC0864-11	03/25/24 10:51 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							
WEC0864-12	03/25/24 10:51 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							
WEC0864-13	03/25/24 10:51 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							

Support Equipment: W PT-04 W PT-33 W PT-21, W PT-27, BLK1B
 Batch Comments: WED0864 3,4& 5 SPIKED INTERNALS MULTIPLE TIMES OVER MULTIPLE CALIBRATIONS.

<u>Reagent ID</u>	<u>Description</u>	<u>LotNum</u>
2303108	P. 1:1 HCl-metals	59072
2303320	Nitric Acid	63076
2303351	P. Metals Digestion Vials	102623
2400625	C. Internal Standard Mix	-
2400754	Metals UHP Helium	155-402885127-1
2400923	C. 10 ppb Tune Solution	-

PREPARATION BENCH SHEET

Metals

BED0876

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BED0876-BLK1	04/22/24 09:51 - JLG	50	50				
BED0876-BS1	04/22/24 09:51 - JLG	50	50	2301403		250	
BED0876-MS1	04/22/24 09:51 - JLG	50	50	2301403	WED0874-03	250	
BED0876-MS2	04/22/24 09:51 - JLG	50	50	2301403	WED0874-12	250	
BED0876-MSD1	04/22/24 09:51 - JLG	50	50	2301403	WED0874-03	250	
BED0876-MSD2	04/22/24 09:51 - JLG	50	50	2301403	WED0874-12	250	
WED0874-01	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-02	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-03	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-04	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-06	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-07	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-08	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-09	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-10	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WED0874-11	04/22/24 09:51 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			

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Prepared By _____ Date _____ Analytical Run Date _____

PREPARATION BENCH SHEET

Metals

BED0876

(Continued)

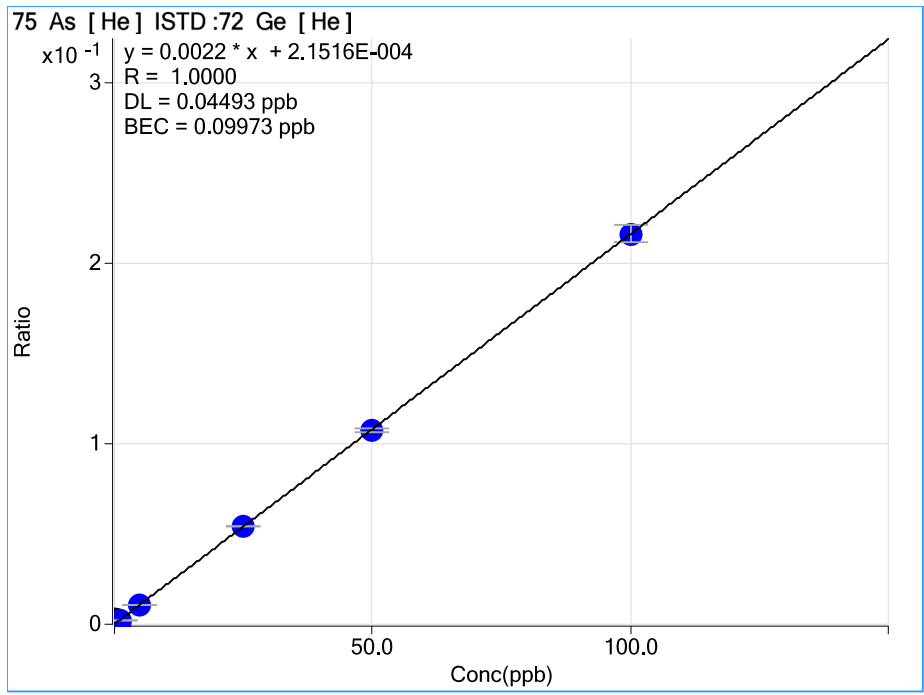
Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WED0874-12	04/22/24 09:51 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							
WED0874-13	04/22/24 09:51 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							

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

<u>Reagent ID</u>	<u>Description</u>	<u>LotNum</u>
2303320	Nitric Acid	63076
2303351	P. Metals Digestion Vials	102623
2400754	Metals UHP Helium	155-402885127-1
2401086	C. Internal Standard Mix	-
2401310	P. 1:1 HCl-metals	59072
2401327	C. 10 ppb Tune Solution	-



Sample Report

Sample Name CCV
File Name 069_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:36:45
Sample Type CCV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	49.956	No Gas	49.956	6	4.3	50	
75	As	47.176	No Gas	47.176	72	4.1	50	
75	As	52.468	He	52.468	72	1.1	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1226750.73	2.5	116.6	1052254.99
Sc	45	No Gas	4020727.42	0.7	101.5	3961617.58333333
Sc	45	He	216014.22	3.8	85.3	253318.213333333
Ge	72	No Gas	1803998.75	2.6	94.5	1909334.87333333
Ge	72	He	315284.67	4.1	87.0	362286.39
Ge	72	HEHe	183497.07	1.1	85.3	215160.16
Rh	103	No Gas	5155171.50	2.6	94.0	5487118
Rh	103	He	2382727.96	3.8	82.9	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 068_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:34:24
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1223240.53	2.6	116.2	1052254.99
Sc	45	No Gas	4097955.75	2.9	103.4	3961617.58333333
Sc	45	He	204024.51	2.8	80.5	253318.213333333
Ge	72	No Gas	1818224.54	2.5	95.2	1909334.87333333
Ge	72	He	298559.72	3.2	82.4	362286.39
Ge	72	HEHe	178337.41	1.1	82.9	215160.16
Rh	103	No Gas	5172914.00	1.5	94.3	5487118
Rh	103	He	2318143.66	2.8	80.7	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-BS1
File Name 067_LCS.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:32:07
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	47.660	No Gas	47.66	6	3.3	50	
75	As	51.639	He	51.639	72	2.6	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1143559.84	4.4	108.7	1052254.99
Sc	45	No Gas	5130859.17	7.3	129.5	3961617.58333333
Sc	45	He	204525.02	5.9	80.7	253318.213333333
Ge	72	No Gas	1759104.21	1.7	92.1	1909334.87333333
Ge	72	He	273433.70	7.2	75.5	362286.39
Ge	72	HEHe	157768.13	1.3	73.3	215160.16
Rh	103	No Gas	4996950.50	1.3	91.1	5487118
Rh	103	He	2199827.76	8.2	76.6	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-BLK1
File Name 066_Blk.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:29:48
Sample Type Blank
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	0.227	No Gas	0.227	6	0.6	0.5	
75	As	0.039	He	0.039	72	13.6	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1139018.11	1.0	108.2	1052254.99
Sc	45	No Gas	5353685.50	3.9	135.1	3961617.58333333
Sc	45	He	206234.74	2.0	81.4	253318.213333333
Ge	72	No Gas	1770986.21	1.3	92.8	1909334.87333333
Ge	72	He	274782.47	3.8	75.8	362286.39
Ge	72	HEHe	177304.30	1.6	82.4	215160.16
Rh	103	No Gas	4971189.50	2.9	90.6	5487118
Rh	103	He	2164323.66	2.4	75.3	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-05
File Name 065SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:27:28
Sample Type Sample
Total Dilution 1.0000
Comment FLAG AND REPORT
ISTD Ref FileName 056CALB.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	75.936	No Gas	75.936	6	3.9	100	
75	As	0.968	He	0.968	72	6.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	686816.46	1.2	65.3	1052254.99
Sc	45	No Gas	4041423.75	8.6	102.0	3961617.58333333
Sc	45	He	162539.88	1.0	64.2	253318.213333333
Ge	72	No Gas	1249859.37	3.3	65.5	1909334.87333333
Ge	72	He	216907.82	1.9	59.9	362286.39
Ge	72	HEHe	124071.20	1.6	57.7	215160.16
Rh	103	No Gas	3076736.25	2.4	56.1	5487118
Rh	103	He	1505130.36	3.4	52.4	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-04
File Name 064SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:25:09
Sample Type Sample
Total Dilution 1.0000
Comment FLAG AND REPORT
ISTD Ref FileName 056CALB.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	80.128	No Gas	80.128	6	5.0	100	
75	As	1.015	He	1.015	72	4.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	608561.77	2.2	57.8	1052254.99
Sc	45	No Gas	3942816.50	7.5	99.5	3961617.58333333
Sc	45	He	146934.60	2.5	58.0	253318.213333333
Ge	72	No Gas	1292813.67	1.1	67.7	1909334.87333333
Ge	72	He	197285.10	2.7	54.5	362286.39
Ge	72	HEHe	119734.41	2.4	55.6	215160.16
Rh	103	No Gas	3151968.00	3.5	57.4	5487118
Rh	103	He	1378858.07	2.0	48.0	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-06
File Name 063SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:22:51
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	12.314	No Gas	12.314	6	3.0	100	
75	As	22.167	He	22.167	72	2.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	726513.92	2.2	69.0	1052254.99
Sc	45	No Gas	4667024.00	6.4	117.8	3961617.58333333
Sc	45	He	205375.82	3.7	81.1	253318.213333333
Ge	72	No Gas	1668274.42	1.4	87.4	1909334.87333333
Ge	72	He	282820.01	4.4	78.1	362286.39
Ge	72	HEHe	186164.62	1.1	86.5	215160.16
Rh	103	No Gas	4461405.50	3.0	81.3	5487118
Rh	103	He	2112754.99	3.7	73.5	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-04
File Name 062SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:20:30
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	8.787	No Gas	8.787	6	2.0	100	
75	As	2.428	He	2.428	72	2.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	784796.91	1.5	74.6	1052254.99
Sc	45	No Gas	5072801.67	5.3	128.0	3961617.58333333
Sc	45	He	249619.56	3.8	98.5	253318.213333333
Ge	72	No Gas	1705712.21	1.6	89.3	1909334.87333333
Ge	72	He	315947.28	3.4	87.2	362286.39
Ge	72	HEHe	196153.00	1.1	91.2	215160.16
Rh	103	No Gas	4640893.33	3.1	84.6	5487118
Rh	103	He	2366719.35	4.6	82.4	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-13
File Name 061SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:18:11
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	0.387	No Gas	0.387	6	1.4	100	
75	As	0.386	He	0.386	72	8.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	826441.28	2.2	78.5	1052254.99
Sc	45	No Gas	4871410.67	7.5	123.0	3961617.58333333
Sc	45	He	232795.68	16.2	91.9	253318.213333333
Ge	72	No Gas	1865562.46	1.5	97.7	1909334.87333333
Ge	72	He	322951.45	14.5	89.1	362286.39
Ge	72	HEHe	174256.29	4.2	81.0	215160.16
Rh	103	No Gas	5292805.67	1.6	96.5	5487118
Rh	103	He	2744444.54	17.5	95.5	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-MSD2
File Name 060LFMD.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:15:52
Sample Type LFMdup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	51.745	No Gas	51.745	6	0.7	20	
75	As	37.313	No Gas	37.313	72	2.9	20	
75	As	40.752	He	40.752	72	2.4	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	819413.46	3.1	77.9	1052254.99
Sc	45	No Gas	5232341.83	4.8	132.1	3961617.58333333
Sc	45	He	235307.48	1.5	92.9	253318.213333333
Ge	72	No Gas	1832278.42	1.0	96.0	1909334.87333333
Ge	72	He	300483.72	3.5	82.9	362286.39
Ge	72	HEHe	194501.64	0.7	90.4	215160.16
Rh	103	No Gas	5186284.00	2.4	94.5	5487118
Rh	103	He	2446137.47	2.7	85.2	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-MS2
File Name 059_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:13:31
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	52.547	No Gas	52.547	6	1.9	100	
75	As	40.026	No Gas	40.026	72	3.0	100	
75	As	44.465	He	44.465	72	1.6	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	849620.80	1.7	80.7	1052254.99
Sc	45	No Gas	5433483.67	6.8	137.2	3961617.58333333
Sc	45	He	252170.17	2.5	99.5	253318.213333333
Ge	72	No Gas	1863318.16	1.3	97.6	1909334.87333333
Ge	72	He	309105.94	2.4	85.3	362286.39
Ge	72	HEHe	197752.85	1.9	91.9	215160.16
Rh	103	No Gas	5225135.33	1.6	95.2	5487118
Rh	103	He	2544286.49	3.9	88.6	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-12
File Name 058_ARF.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:11:12
Sample Type AllRef
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	1.530	No Gas	1.53	6	2.0	100	
75	As	0.759	He	0.759	72	2.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	900915.38	2.5	85.6	1052254.99
Sc	45	No Gas	5766699.33	7.4	145.6	3961617.58333333
Sc	45	He	280968.36	3.1	110.9	253318.213333333
Ge	72	No Gas	1823391.84	1.6	95.5	1909334.87333333
Ge	72	He	324346.71	2.3	89.5	362286.39
Ge	72	HEHe	200610.31	0.4	93.2	215160.16
Rh	103	No Gas	5048519.17	0.2	92.0	5487118
Rh	103	He	2604003.92	2.1	90.6	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 057_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:08:54
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1044004.02	4.1	99.2	1052254.99
Sc	45	No Gas	4024253.17	2.3	101.6	3961617.58333333
Sc	45	He	252621.00	2.9	99.7	253318.213333333
Ge	72	No Gas	1876738.58	1.9	98.3	1909334.87333333
Ge	72	He	360932.28	3.6	99.6	362286.39
Ge	72	HEHe	212794.71	0.8	98.9	215160.16
Rh	103	No Gas	5540094.33	1.9	101.0	5487118
Rh	103	He	2803537.25	4.9	97.6	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCB
File Name 056CALB.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:06:34
Sample Type CalBlk
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 056CALB.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	0.187	No Gas	0.187	6	1.0	1000	
75	As	<0.000	He	-0.04	72	16.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1052254.99	5.2	100.0	1052254.99
Sc	45	No Gas	3961617.58	2.1	100.0	3961617.58333333
Sc	45	He	253318.21	5.2	100.0	253318.213333333
Ge	72	No Gas	1909334.87	1.3	100.0	1909334.87333333
Ge	72	He	362286.39	5.0	100.0	362286.39
Ge	72	HEHe	215160.16	3.1	100.0	215160.16
Rh	103	No Gas	5487118.00	1.3	100.0	5487118
Rh	103	He	2872718.01	5.5	100.0	2872718.01
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCB
File Name 055_CCB.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:04:16
Sample Type CCB
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	0.350	No Gas	0.35	6	1.5	0,5	
75	As	<0.000	He	-0.012	72	20.2	0,06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1018777.05	1.2	72.0	1415387.05
Sc	45	No Gas	3977591.67	1.4	97.6	4074689.16666667
Sc	45	He	245159.87	3.9	69.8	351335.833333333
Ge	72	No Gas	1908040.79	2.1	101.9	1872286.24666667
Ge	72	He	357357.73	3.5	78.4	455619.516666667
Ge	72	HEHe	211293.55	1.7	88.8	238002.75
Rh	103	No Gas	5451874.83	0.4	101.4	5374880.83333333
Rh	103	He	2796153.01	4.0	85.9	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCV
File Name 054_CCV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 21:01:58
Sample Type CCV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	49.504	No Gas	49.504	6	4.9	50	
75	As	45.913	No Gas	45.913	72	5.0	50	
75	As	50.099	He	50.099	72	1.9	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1051765.24	3.8	74.3	1415387.05
Sc	45	No Gas	3916883.67	1.6	96.1	4074689.16666667
Sc	45	He	262146.38	10.5	74.6	351335.833333333
Ge	72	No Gas	1903914.25	2.0	101.7	1872286.24666667
Ge	72	He	377425.88	10.1	82.8	455619.516666667
Ge	72	HEHe	192316.68	3.8	80.8	238002.75
Rh	103	No Gas	5451781.67	2.0	101.4	5374880.83333333
Rh	103	He	2990605.09	11.3	91.8	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 053_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:59:38
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1083830.70	4.2	76.6	1415387.05
Sc	45	No Gas	4191415.00	0.7	102.9	4074689.16666667
Sc	45	He	244207.27	4.8	69.5	351335.833333333
Ge	72	No Gas	2021811.04	3.5	108.0	1872286.24666667
Ge	72	He	349261.13	4.5	76.7	455619.516666667
Ge	72	HEHe	212775.92	1.5	89.4	238002.75
Rh	103	No Gas	5843333.67	4.6	108.7	5374880.83333333
Rh	103	He	2768238.29	3.8	85.0	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-11
File Name 052SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:57:20
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	1.022	No Gas	1.022	6	1.7	100	
75	As	3.631	He	3.631	72	1.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	919285.56	3.4	64.9	1415387.05
Sc	45	No Gas	5072102.83	6.4	124.5	4074689.16666667
Sc	45	He	235144.66	2.0	66.9	351335.833333333
Ge	72	No Gas	1876512.33	0.6	100.2	1872286.24666667
Ge	72	He	316163.95	3.0	69.4	455619.516666667
Ge	72	HEHe	198645.48	1.4	83.5	238002.75
Rh	103	No Gas	5214376.00	2.0	97.0	5374880.83333333
Rh	103	He	2478630.04	3.1	76.1	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-10
File Name 051SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:55:01
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	2.749	No Gas	2.749	6	1.2	100	
75	As	2.747	He	2.747	72	2.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	984026.41	2.3	69.5	1415387.05
Sc	45	No Gas	5559590.00	4.9	136.4	4074689.16666667
Sc	45	He	267932.02	3.0	76.3	351335.833333333
Ge	72	No Gas	1849870.62	0.5	98.8	1872286.24666667
Ge	72	He	319641.98	2.9	70.2	455619.516666667
Ge	72	HEHe	200393.74	0.7	84.2	238002.75
Rh	103	No Gas	5082391.67	1.7	94.6	5374880.83333333
Rh	103	He	2434221.98	3.0	74.7	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-09
File Name 050SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:52:41
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	1,608	No Gas	1,608	6	1.3	100	
75	As	1,426	He	1,426	72	2.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1021285.38	1.5	72.2	1415387.05
Sc	45	No Gas	5473222.17	8.4	134.3	4074689.16666667
Sc	45	He	260172.73	2.5	74.1	351335.833333333
Ge	72	No Gas	1858087.58	1.3	99.2	1872286.24666667
Ge	72	He	323243.96	2.4	70.9	455619.516666667
Ge	72	HEHe	202019.34	0.6	84.9	238002.75
Rh	103	No Gas	5145101.83	2.1	95.7	5374880.83333333
Rh	103	He	2448598.86	3.2	75.2	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-08
File Name 049SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:50:22
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	0.960	No Gas	0.96	6	1.3	100	
75	As	1.209	He	1.209	72	1.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1099584.85	5.1	77.7	1415387.05
Sc	45	No Gas	5464179.17	5.9	134.1	4074689.16666667
Sc	45	He	260804.32	1.4	74.2	351335.833333333
Ge	72	No Gas	1888448.62	1.3	100.9	1872286.24666667
Ge	72	He	320812.05	2.3	70.4	455619.516666667
Ge	72	HEHe	199759.95	1.0	83.9	238002.75
Rh	103	No Gas	5267874.50	1.7	98.0	5374880.83333333
Rh	103	He	2512577.05	1.6	77.2	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-07
File Name 048SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:48:03
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	0.711	No Gas	0.711	6	1.1	100	
75	As	6.049	He	6.049	72	0.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1060569.48	1.8	74.9	1415387.05
Sc	45	No Gas	5281894.50	7.9	129.6	4074689.16666667
Sc	45	He	238398.17	2.7	67.9	351335.833333333
Ge	72	No Gas	1892593.33	0.6	101.1	1872286.24666667
Ge	72	He	324885.00	4.0	71.3	455619.516666667
Ge	72	HEHe	198324.11	1.1	83.3	238002.75
Rh	103	No Gas	5235577.83	0.8	97.4	5374880.83333333
Rh	103	He	2425718.86	3.3	74.5	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-MSD1
File Name 047LFMD.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:45:42
Sample Type LFMdup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	56.715	No Gas	56.715	6	3.1	20	
75	As	74.303	No Gas	74.303	72	4.8	20	
75	As	53.503	He	53.503	72	1.6	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	952392.84	1.9	67.3	1415387.05
Sc	45	No Gas	4930255.33	5.9	121.0	4074689.16666667
Sc	45	He	269831.94	5.7	76.8	351335.833333333
Ge	72	No Gas	1674409.96	2.6	89.4	1872286.24666667
Ge	72	He	335950.51	5.6	73.7	455619.516666667
Ge	72	HEHe	168455.27	2.5	70.8	238002.75
Rh	103	No Gas	4471130.17	1.9	83.2	5374880.83333333
Rh	103	He	2442846.22	6.7	75.0	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-MS1
File Name 046_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:43:23
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	58.209	No Gas	58.209	6	3.3	100	
75	As	76.638	No Gas	76.638	72	3.2	100	
75	As	55.157	He	55.157	72	2.4	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	955992.84	1.7	67.5	1415387.05
Sc	45	No Gas	4997002.83	6.8	122.6	4074689.16666667
Sc	45	He	279150.96	3.5	79.5	351335.833333333
Ge	72	No Gas	1669368.67	1.1	89.2	1872286.24666667
Ge	72	He	336006.84	3.2	73.7	455619.516666667
Ge	72	HEHe	196885.87	2.4	82.7	238002.75
Rh	103	No Gas	4486970.67	1.7	83.5	5374880.83333333
Rh	103	He	2357694.21	3.4	72.4	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-MS1
File Name 046_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:43:23
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	58.209	No Gas	58.209	6	3.3	100	
75	As	76.638	No Gas	76.638	72	3.2	100	
75	As	55.157	He	55.157	72	2.4	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	955992.84	1.7	67.5	1415387.05
Sc	45	No Gas	4997002.83	6.8	122.6	4074689.16666667
Sc	45	He	279150.96	3.5	79.5	351335.833333333
Ge	72	No Gas	1669368.67	1.1	89.2	1872286.24666667
Ge	72	He	336006.84	3.2	73.7	455619.516666667
Ge	72	HEHe	196885.87	2.4	82.7	238002.75
Rh	103	No Gas	4486970.67	1.7	83.5	5374880.83333333
Rh	103	He	2357694.21	3.4	72.4	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-03
File Name 045_ARF.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:41:05
Sample Type AllRef
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	8.217	No Gas	8.217	6	0.8	100	
75	As	2.183	He	2.183	72	1.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1022431.55	1.0	72.2	1415387.05
Sc	45	No Gas	4782762.00	5.5	117.4	4074689.16666667
Sc	45	He	334651.24	2.7	95.3	351335.833333333
Ge	72	No Gas	1637666.50	1.7	87.5	1872286.24666667
Ge	72	He	388333.70	3.7	85.2	455619.516666667
Ge	72	HEHe	209412.82	0.9	88.0	238002.75
Rh	103	No Gas	4490504.33	1.9	83.5	5374880.83333333
Rh	103	He	2712063.85	4.6	83.3	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-02
File Name 044SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:38:44
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	2.104	No Gas	2.104	6	0.6	100	
75	As	0.976	He	0.976	72	3.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1170447.67	1.5	82.7	1415387.05
Sc	45	No Gas	5705573.50	3.1	140.0	4074689.16666667
Sc	45	He	435113.33	2.5	123.8	351335.833333333
Ge	72	No Gas	1765583.63	3.8	94.3	1872286.24666667
Ge	72	He	434761.67	4.7	95.4	455619.516666667
Ge	72	HEHe	228718.48	1.5	96.1	238002.75
Rh	103	No Gas	5104591.00	2.7	95.0	5374880.83333333
Rh	103	He	3161086.40	6.6	97.1	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WED0874-01
File Name 043SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:36:26
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	1.188	No Gas	1.188	6	1.2	100	
75	As	0.343	He	0.343	72	1.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1160041.97	1.6	82.0	1415387.05
Sc	45	No Gas	5051775.83	6.4	124.0	4074689.16666667
Sc	45	He	348674.96	3.6	99.2	351335.833333333
Ge	72	No Gas	1745104.67	1.2	93.2	1872286.24666667
Ge	72	He	410162.60	4.6	90.0	455619.516666667
Ge	72	HEHe	227911.24	2.1	95.8	238002.75
Rh	103	No Gas	4911556.00	1.2	91.4	5374880.83333333
Rh	103	He	2895495.51	5.4	88.9	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-BS1
File Name 042_LCS.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:34:07
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	49.277	No Gas	49.277	6	2.1	50	
75	As	52.228	He	52.228	72	2.3	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1219764.79	4.3	86.2	1415387.05
Sc	45	No Gas	5054474.33	5.5	124.0	4074689.16666667
Sc	45	He	357526.84	4.6	101.8	351335.833333333
Ge	72	No Gas	1781221.17	1.0	95.1	1872286.24666667
Ge	72	He	418852.76	5.6	91.9	455619.516666667
Ge	72	HEHe	231056.66	0.7	97.1	238002.75
Rh	103	No Gas	5232016.00	2.6	97.3	5374880.83333333
Rh	103	He	3110804.32	7.2	95.5	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-MRL1
File Name 041LICV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:31:46
Sample Type LLICV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	0.742	No Gas	0.742	6	0.6	1	
75	As	<0.000	No Gas	-1.169	72	1.9	1	> +/- 50%
75	As	0.941	He	0.941	72	4.3	1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1337230.79	2.0	94.5	1415387.05
Sc	45	No Gas	3849341.08	0.4	94.5	4074689.16666667
Sc	45	He	345027.16	5.7	98.2	351335.833333333
Ge	72	No Gas	1815247.25	0.9	97.0	1872286.24666667
Ge	72	He	455100.23	6.0	99.9	455619.516666667
Ge	72	HEHe	232041.08	1.2	97.5	238002.75
Rh	103	No Gas	5336691.83	2.1	99.3	5374880.83333333
Rh	103	He	3340424.94	8.3	102.6	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BED0876-BLK1
File Name 040_Blk.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:29:27
Sample Type Blank
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	0.078	No Gas	0.078	6	0.7	0.5	
75	As	0.023	He	0.023	72	7.5	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1269277.53	2.8	89.7	1415387.05
Sc	45	No Gas	4728671.67	4.2	116.0	4074689.16666667
Sc	45	He	351039.81	3.3	99.9	351335.833333333
Ge	72	No Gas	1851617.21	1.9	98.9	1872286.24666667
Ge	72	He	435415.09	4.6	95.6	455619.516666667
Ge	72	HEHe	237323.59	2.5	99.7	238002.75
Rh	103	No Gas	5334556.50	1.9	99.2	5374880.83333333
Rh	103	He	3208002.51	3.4	98.5	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-BS1
File Name 039_LCS.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:27:08
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	49.022	No Gas	49.022	6	1.6	50	
75	As	50.624	He	50.624	72	2.8	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1184355.44	4.1	83.7	1415387.05
Sc	45	No Gas	4806421.83	4.1	118.0	4074689.16666667
Sc	45	He	336154.89	4.0	95.7	351335.833333333
Ge	72	No Gas	1762941.21	0.7	94.2	1872286.24666667
Ge	72	He	414375.42	5.0	90.9	455619.516666667
Ge	72	HEHe	227237.00	0.9	95.5	238002.75
Rh	103	No Gas	5224902.17	1.1	97.2	5374880.83333333
Rh	103	He	3160079.39	5.2	97.0	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-BLK1
File Name 038_Blk.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:24:48
Sample Type Blank
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	<0.000	No Gas	-0.032	6	2.3	0,5	
75	As	0.066	He	0.066	72	2.8	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1228117.53	2.1	86.8	1415387.05
Sc	45	No Gas	4668180.50	3.4	114.6	4074689.16666667
Sc	45	He	327943.20	3.6	93.3	351335.833333333
Ge	72	No Gas	1775411.42	3.3	94.8	1872286.24666667
Ge	72	He	411384.37	4.9	90.3	455619.516666667
Ge	72	HEHe	229035.92	1.1	96.2	238002.75
Rh	103	No Gas	5252826.17	1.2	97.7	5374880.83333333
Rh	103	He	3118403.07	5.3	95.8	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-MSD2
File Name 037LFMD.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:22:30
Sample Type LFMdup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	44.885	No Gas	44.885	6	2.0	20	
75	As	50.596	No Gas	50.596	72	3.4	20	
75	As	48.938	He	48.938	72	1.3	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1209816.42	1.8	85.5	1415387.05
Sc	45	No Gas	4904218.17	6.3	120.4	4074689.16666667
Sc	45	He	330214.26	1.8	94.0	351335.833333333
Ge	72	No Gas	1796858.71	0.6	96.0	1872286.24666667
Ge	72	He	405723.85	4.3	89.0	455619.516666667
Ge	72	HEHe	230786.84	0.8	97.0	238002.75
Rh	103	No Gas	5266336.00	1.6	98.0	5374880.83333333
Rh	103	He	3010716.06	5.8	92.4	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-MS2
File Name 036_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:20:11
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	49.269	No Gas	49.269	6	2.5	100	
75	As	54.458	No Gas	54.458	72	3.1	100	
75	As	53.052	He	53.052	72	2.2	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1193834.24	1.7	84.3	1415387.05
Sc	45	No Gas	4989991.67	5.4	122.5	4074689.16666667
Sc	45	He	330889.49	1.2	94.2	351335.833333333
Ge	72	No Gas	1806939.83	0.3	96.5	1872286.24666667
Ge	72	He	404206.42	2.8	88.7	455619.516666667
Ge	72	HEHe	226789.80	0.2	95.3	238002.75
Rh	103	No Gas	5165986.67	0.6	96.1	5374880.83333333
Rh	103	He	3028132.45	1.2	93.0	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-13
File Name 035_ARF.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:17:51
Sample Type AllRef
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	0.177	No Gas	0.177	6	1.9	100	
75	As	0.190	He	0.19	72	8.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1222825.55	2.9	86.4	1415387.05
Sc	45	No Gas	5274289.00	5.2	129.4	4074689.16666667
Sc	45	He	346816.36	1.9	98.7	351335.833333333
Ge	72	No Gas	1781239.25	2.2	95.1	1872286.24666667
Ge	72	He	402878.08	2.8	88.4	455619.516666667
Ge	72	HEHe	225110.51	1.0	94.6	238002.75
Rh	103	No Gas	5038384.67	3.3	93.7	5374880.83333333
Rh	103	He	2988777.73	2.6	91.8	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 034_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:15:32
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1382443.82	2.2	97.7	1415387.05
Sc	45	No Gas	4086856.50	0.4	100.3	4074689.16666667
Sc	45	He	361917.09	8.8	103.0	351335.833333333
Ge	72	No Gas	1891163.50	3.5	101.0	1872286.24666667
Ge	72	He	462925.11	7.8	101.6	455619.516666667
Ge	72	HEHe	210370.25	3.1	88.4	238002.75
Rh	103	No Gas	5392642.17	2.2	100.3	5374880.83333333
Rh	103	He	3391536.67	10.5	104.1	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCB
File Name 033_CCB.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:13:14
Sample Type CalBlk
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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	0.007	No Gas	0.007	6	1.7	1000	
75	As	0.002	He	0.002	72	3.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1415387.05	2.4	100.0	1415387.05
Sc	45	No Gas	4074689.17	1.5	100.0	4074689.16666667
Sc	45	He	351335.83	3.0	100.0	351335.833333333
Ge	72	No Gas	1872286.25	3.7	100.0	1872286.24666667
Ge	72	He	455619.52	3.3	100.0	455619.516666667
Ge	72	HEHe	238002.75	1.4	100.0	238002.75
Rh	103	No Gas	5374880.83	1.0	100.0	5374880.83333333
Rh	103	He	3256596.81	2.7	100.0	3256596.81333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCV
File Name 032_CCV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:10:54
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	49.043	No Gas	49.043	6	4.0	50	
75	As	47.737	No Gas	47.737	72	4.2	50	
75	As	51.304	He	51.304	72	1.8	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1414179.63	4.9	84.7	1669215.15333333
Sc	45	No Gas	3973881.25	1.8	86.7	4584728
Sc	45	He	340973.44	3.5	79.1	431066.243333333
Ge	72	No Gas	1871652.75	2.2	90.1	2077745.96
Ge	72	He	452222.41	3.6	84.2	537163.92
Ge	72	HEHe	241123.63	0.6	87.1	276851.57
Rh	103	No Gas	5382088.00	3.5	89.4	6019968.5
Rh	103	He	3246863.07	3.9	88.2	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCV
File Name 031_CCV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:08:35
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	47.808	No Gas	47.808	6	3.1	50	
75	As	46.422	No Gas	46.422	72	3.9	50	
75	As	49.975	He	49.975	72	2.1	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1400915.10	1.4	83.9	1669215.15333333
Sc	45	No Gas	4183014.25	1.6	91.2	4584728
Sc	45	He	343539.97	5.4	79.7	431066.243333333
Ge	72	No Gas	1911823.50	1.1	92.0	2077745.96
Ge	72	He	453718.93	5.2	84.5	537163.92
Ge	72	HEHe	243449.02	1.0	87.9	276851.57
Rh	103	No Gas	5657906.83	1.9	94.0	6019968.5
Rh	103	He	3248746.40	4.4	88.2	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 030_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:06:18
Sample Type RINSE
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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1312260.30	2.0	78.6	1669215.15333333
Sc	45	No Gas	4053775.92	1.5	88.4	4584728
Sc	45	He	333697.10	9.8	77.4	431066.243333333
Ge	72	No Gas	1846757.63	0.9	88.9	2077745.96
Ge	72	He	450901.14	9.0	83.9	537163.92
Ge	72	HEHe	241983.27	0.5	87.4	276851.57
Rh	103	No Gas	5544728.33	0.6	92.1	6019968.5
Rh	103	He	3347305.70	10.2	90.9	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-12
File Name 029SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:03:58
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	<0.000	No Gas	-0.024	6	2.0	100	
75	As	0.144	He	0.144	72	3.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1251729.50	1.3	75.0	1669215.15333333
Sc	45	No Gas	5115840.83	7.4	111.6	4584728
Sc	45	He	302436.95	2.0	70.2	431066.243333333
Ge	72	No Gas	1933460.83	1.6	93.1	2077745.96
Ge	72	He	382821.22	3.2	71.3	537163.92
Ge	72	HEHe	225175.49	1.6	81.3	276851.57
Rh	103	No Gas	5375943.83	2.7	89.3	6019968.5
Rh	103	He	2898507.04	3.9	78.7	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-11
File Name 028SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 20:01:39
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	1.441	No Gas	1.441	6	1.4	100	
75	As	5.097	He	5.097	72	2.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1219820.22	1.9	73.1	1669215.15333333
Sc	45	No Gas	5307249.17	8.2	115.8	4584728
Sc	45	He	298788.69	3.2	69.3	431066.243333333
Ge	72	No Gas	1907108.75	1.6	91.8	2077745.96
Ge	72	He	380733.34	3.0	70.9	537163.92
Ge	72	HEHe	224639.51	2.5	81.1	276851.57
Rh	103	No Gas	5178060.67	3.0	86.0	6019968.5
Rh	103	He	2748136.77	2.6	74.6	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-10
File Name 027SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:59:20
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	0.520	No Gas	0.52	6	1.3	100	
75	As	0.404	He	0.404	72	2.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1237414.79	2.2	74.1	1669215.15333333
Sc	45	No Gas	5542973.50	6.9	120.9	4584728
Sc	45	He	283757.38	1.9	65.8	431066.243333333
Ge	72	No Gas	1946347.29	2.7	93.7	2077745.96
Ge	72	He	366337.55	3.4	68.2	537163.92
Ge	72	HEHe	220011.27	2.4	79.5	276851.57
Rh	103	No Gas	5282559.17	2.1	87.8	6019968.5
Rh	103	He	2715625.45	4.4	73.7	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-09
File Name 026SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:56:59
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	2.009	No Gas	2.009	6	0.6	100	
75	As	1.396	He	1.396	72	3.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1157921.98	2.7	69.4	1669215.15333333
Sc	45	No Gas	5552257.67	4.0	121.1	4584728
Sc	45	He	259601.07	3.7	60.2	431066.243333333
Ge	72	No Gas	1926691.79	3.1	92.7	2077745.96
Ge	72	He	356872.36	4.8	66.4	537163.92
Ge	72	HEHe	216845.39	1.2	78.3	276851.57
Rh	103	No Gas	5160075.50	1.5	85.7	6019968.5
Rh	103	He	2611826.35	5.8	70.9	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-08
File Name 025SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:54:41
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	1.144	No Gas	1.144	6	2.8	100	
75	As	1.473	He	1.473	72	2.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1147940.88	3.0	68.8	1669215.15333333
Sc	45	No Gas	5488328.83	7.4	119.7	4584728
Sc	45	He	263779.19	1.6	61.2	431066.243333333
Ge	72	No Gas	1925524.42	2.3	92.7	2077745.96
Ge	72	He	346941.41	2.3	64.6	537163.92
Ge	72	HEHe	211442.90	0.6	76.4	276851.57
Rh	103	No Gas	5096740.50	1.1	84.7	6019968.5
Rh	103	He	2593887.75	2.7	70.4	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-07
File Name 024SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:52:22
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	1.326	No Gas	1.326	6	1.0	100	
75	As	1.101	He	1.101	72	3.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1293658.16	4.0	77.5	1669215.15333333
Sc	45	No Gas	5815697.67	7.3	126.8	4584728
Sc	45	He	294209.08	2.7	68.3	431066.243333333
Ge	72	No Gas	2007594.29	1.5	96.6	2077745.96
Ge	72	He	381837.47	1.6	71.1	537163.92
Ge	72	HEHe	234927.19	1.0	84.9	276851.57
Rh	103	No Gas	5224706.33	0.2	86.8	6019968.5
Rh	103	He	2742356.14	2.7	74.5	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-06
File Name 023SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:50:02
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	22.924	No Gas	22.924	6	0.5	100	
75	As	32.010	He	32.01	72	3.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	956756.91	2.3	57.3	1669215.15333333
Sc	45	No Gas	4974290.50	6.5	108.5	4584728
Sc	45	He	280256.65	2.8	65.0	431066.243333333
Ge	72	No Gas	1648483.21	1.2	79.3	2077745.96
Ge	72	He	355384.38	3.4	66.2	537163.92
Ge	72	HEHe	218265.69	1.8	78.8	276851.57
Rh	103	No Gas	4084715.25	1.8	67.9	6019968.5
Rh	103	He	2505472.54	3.5	68.0	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-03
File Name 022SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:47:42
Sample Type Sample
Total Dilution 1.0000
Comment FLAG AND REPORT
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	78.264	No Gas	78.264	6	1.1	100	
75	As	1.065	He	1.065	72	5.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	729133.95	1.7	43.7	1669215.15333333
Sc	45	No Gas	3801595.50	4.1	82.9	4584728
Sc	45	He	236227.14	15.8	54.8	431066.243333333
Ge	72	No Gas	1266593.87	2.5	61.0	2077745.96
Ge	72	He	284448.98	14.4	53.0	537163.92
Ge	72	HEHe	157620.06	1.2	56.9	276851.57
Rh	103	No Gas	3090805.50	1.1	51.3	6019968.5
Rh	103	He	1985329.95	16.3	53.9	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-02
File Name 021SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:45:24
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	0.261	No Gas	0.261	6	2.3	100	
75	As	0.143	He	0.143	72	9.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1161986.29	2.4	69.6	1669215.15333333
Sc	45	No Gas	5002472.33	5.0	109.1	4584728
Sc	45	He	327676.19	1.9	76.0	431066.243333333
Ge	72	No Gas	1822269.66	0.4	87.7	2077745.96
Ge	72	He	412756.92	3.6	76.8	537163.92
Ge	72	HEHe	240175.84	1.3	86.8	276851.57
Rh	103	No Gas	5107061.83	1.2	84.8	6019968.5
Rh	103	He	3063701.75	3.1	83.2	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-MSD1
File Name 020LFMD.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:43:03
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	53.605	No Gas	53.605	6	1.4	20	
75	As	67.559	No Gas	67.559	72	4.4	20	
75	As	52.547	He	52.547	72	1.7	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1113749.85	1.4	66.7	1669215.15333333
Sc	45	No Gas	5199028.17	8.5	113.4	4584728
Sc	45	He	312905.87	3.6	72.6	431066.243333333
Ge	72	No Gas	1774053.96	1.5	85.4	2077745.96
Ge	72	He	386188.40	3.6	71.9	537163.92
Ge	72	HEHe	220568.86	2.3	79.7	276851.57
Rh	103	No Gas	4759097.33	1.0	79.1	6019968.5
Rh	103	He	2727475.73	3.8	74.1	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-MS1
File Name 019_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:40:44
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	52.038	No Gas	52.038	6	2.1	100	
75	As	65.514	No Gas	65.514	72	4.4	100	
75	As	49.996	He	49.996	72	3.8	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1208815.78	4.0	72.4	1669215.15333333
Sc	45	No Gas	5410217.33	4.8	118.0	4584728
Sc	45	He	357942.84	4.3	83.0	431066.243333333
Ge	72	No Gas	1897009.46	2.2	91.3	2077745.96
Ge	72	He	441939.69	6.6	82.3	537163.92
Ge	72	HEHe	239342.96	1.2	86.5	276851.57
Rh	103	No Gas	5070364.17	2.6	84.2	6019968.5
Rh	103	He	3093826.20	6.8	84.0	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEC0864-01
File Name 018_ARF.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:38:26
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	5.474	No Gas	5.474	6	0.7	100	
75	As	0.872	He	0.872	72	4.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1360758.42	2.3	81.5	1669215.15333333
Sc	45	No Gas	5122426.50	8.5	111.7	4584728
Sc	45	He	404081.32	3.1	93.7	431066.243333333
Ge	72	No Gas	1836757.92	0.3	88.4	2077745.96
Ge	72	He	467935.00	3.9	87.1	537163.92
Ge	72	HEHe	257200.24	0.3	92.9	276851.57
Rh	103	No Gas	4997407.50	1.1	83.0	6019968.5
Rh	103	He	3186856.68	5.8	86.5	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-BS1
File Name 017_LCS.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:36:05
Sample Type LCS
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	48.793	No Gas	48.793	6	1.3	50	
75	As	51.738	He	51.738	72	1.1	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1400782.05	3.5	83.9	1669215.15333333
Sc	45	No Gas	5501532.50	6.1	120.0	4584728
Sc	45	He	418112.55	2.2	97.0	431066.243333333
Ge	72	No Gas	1934456.25	1.6	93.1	2077745.96
Ge	72	He	481500.62	3.4	89.6	537163.92
Ge	72	HEHe	262780.07	2.4	94.9	276851.57
Rh	103	No Gas	5659659.67	0.8	94.0	6019968.5
Rh	103	He	3560125.21	3.4	96.7	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-MRL1
File Name 016LICV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:33:47
Sample Type LLICV
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	0.955	No Gas	0.955	6	1.8	1	
75	As	<0.000	No Gas	-0.651	72	1.9	1	> +/- 50%
75	As	0.919	He	0.919	72	1.9	1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1542355.52	4.1	92.4	1669215.15333333
Sc	45	No Gas	4369467.17	1.2	95.3	4584728
Sc	45	He	418994.64	3.2	97.2	431066.243333333
Ge	72	No Gas	2062244.21	3.1	99.3	2077745.96
Ge	72	He	543976.01	3.6	101.3	537163.92
Ge	72	HEHe	280359.29	2.0	101.3	276851.57
Rh	103	No Gas	5995652.67	2.4	99.6	6019968.5
Rh	103	He	3896929.43	3.4	105.8	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEC0901-BLK1
File Name 015_Blk.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\04222024 high matrix RERUN.b
Acq Time 2024-04-22 19:31:28
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	<0.000	No Gas	-0.046	6	1.9	0.5	
75	As	0.081	He	0.081	72	12.4	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1489361.28	1.0	89.2	1669215.15333333
Sc	45	No Gas	5579917.00	4.5	121.7	4584728
Sc	45	He	432755.18	2.2	100.4	431066.243333333
Ge	72	No Gas	1988517.96	0.4	95.7	2077745.96
Ge	72	He	499283.71	4.7	92.9	537163.92
Ge	72	HEHe	267368.15	1.5	96.6	276851.57
Rh	103	No Gas	5728989.67	0.8	95.2	6019968.5
Rh	103	He	3616066.38	4.6	98.2	3683177.49333333
Ho	165	No Gas				0
Ho	165	He				0

Sample										
	<input type="checkbox"/>	Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+	1	<input type="checkbox"/>	001CALB.	2024-04-22 18:59:06	CalBlk	1	Blank		1.0000	1101
+	2	<input type="checkbox"/>	002CALB.	2024-04-22 19:01:24	CalBlk	1	Blank		1.0000	1101
+	3	<input type="checkbox"/>	003CALB.	2024-04-22 19:03:44	CalBlk	1	Blank		1.0000	1101
+	4	<input type="checkbox"/>	004CAL.S.	2024-04-22 19:06:02	CalStd	2	1 ppb cal		1.0000	1103
+	5	<input type="checkbox"/>	005CAL.S.	2024-04-22 19:08:20	CalStd	3	5 ppb cal		1.0000	1104
+	6	<input type="checkbox"/>	006CAL.S.	2024-04-22 19:10:40	CalStd	4	25 ppb cal		1.0000	1105
+	7	<input type="checkbox"/>	007CAL.S.	2024-04-22 19:12:58	CalStd	5	50 ppb cal		1.0000	1106
+	8	<input type="checkbox"/>	008CAL.S.	2024-04-22 19:15:16	CalStd	6	100 ppb cal		1.0000	1107
+	9	<input type="checkbox"/>	009_ICV.d	2024-04-22 19:17:36	ICV		ICV- 40ppb		1.0000	2201
+	10	<input type="checkbox"/>	010_ICV.d	2024-04-22 19:19:54	ICV		ICV- 40ppb		1.0000	2101
+	11	<input type="checkbox"/>	011_LDR.d	2024-04-22 19:22:12	LDR		Daily LDR- 500pp		1.0000	2102
+	12	<input type="checkbox"/>	012_RIN.d	2024-04-22 19:24:32	RINSE		Rinse		1.0000	4
+	13	<input type="checkbox"/>	013_RIN.d	2024-04-22 19:26:49	RINSE		Rinse		1.0000	4
+	14	<input type="checkbox"/>	014_RIN.d	2024-04-22 19:29:07	RINSE		Rinse		1.0000	4
+	15	<input type="checkbox"/>	015_BlK.d	2024-04-22 19:31:28	Blank		BEC0901-BLK1		1.0000	3101
+	16	<input checked="" type="checkbox"/>	016LICV.d	2024-04-22 19:33:47	LLICV		BEC0901-MRL1		1.0000	3102
+	17	<input type="checkbox"/>	017_LCS.d	2024-04-22 19:36:05	LCS		BEC0901-BS1		1.0000	3103
+	18	<input type="checkbox"/>	018_ARF.d	2024-04-22 19:38:26	AllRef		WEC0864-01		1.0000	3104
+	19	<input type="checkbox"/>	019_LFM.d	2024-04-22 19:40:44	LFM		BEC0901-MS1		1.0000	3105
+	20	<input checked="" type="checkbox"/>	020LFMD.	2024-04-22 19:43:03	LFMDup		BEC0901-MSD1		1.0000	3106
+	21	<input checked="" type="checkbox"/>	021SMPL.	2024-04-22 19:45:24	Sample		WEC0864-02		1.0000	3107
+	22	<input checked="" type="checkbox"/>	022SMPL.	2024-04-22 19:47:42	Sample		WEC0864-03	FLAG AND REPOR	1.0000	3108
+	23	<input checked="" type="checkbox"/>	023SMPL.	2024-04-22 19:50:02	Sample		WEC0864-06		1.0000	3111
+	24	<input checked="" type="checkbox"/>	024SMPL.	2024-04-22 19:52:22	Sample		WEC0864-07		1.0000	3112
+	25	<input checked="" type="checkbox"/>	025SMPL.	2024-04-22 19:54:41	Sample		WEC0864-08		1.0000	3201

Sample										
	<input checked="" type="checkbox"/>	Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	026SMPL.	2024-04-22 19:56:59	Sample		WEC0864-09		1.0000	3202
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	027SMPL.	2024-04-22 19:59:20	Sample		WEC0864-10		1.0000	3203
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	028SMPL.	2024-04-22 20:01:39	Sample		WEC0864-11		1.0000	3204
+	<input type="checkbox"/>	<input type="checkbox"/>	029SMPL.	2024-04-22 20:03:58	Sample		WEC0864-12		1.0000	3205
+	<input type="checkbox"/>	<input type="checkbox"/>	030_RIN.d	2024-04-22 20:06:18	RINSE		Rinse		1.0000	4
+	<input type="checkbox"/>	<input type="checkbox"/>	031_CC.V.	2024-04-22 20:08:35	CCV		CCV		1.0000	1106
+	<input type="checkbox"/>	<input type="checkbox"/>	032_CC.V.	2024-04-22 20:10:54	CCV		CCV		1.0000	1307
+	<input type="checkbox"/>	<input type="checkbox"/>	033_CCB.	2024-04-22 20:13:14	CalBlk		CCB		1.0000	1101
+	<input type="checkbox"/>	<input type="checkbox"/>	034_RIN.d	2024-04-22 20:15:32	RINSE		Rinse		1.0000	5
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	035_ARF.d	2024-04-22 20:17:51	AllRef		WEC0864-13		1.0000	3206
+	<input type="checkbox"/>	<input type="checkbox"/>	036_LFM.d	2024-04-22 20:20:11	LFM		BEC0901-MS2		1.0000	3207
+	<input type="checkbox"/>	<input type="checkbox"/>	037LFMD.	2024-04-22 20:22:30	LFMDup		BEC0901-MSD2		1.0000	3208
+	<input type="checkbox"/>	<input type="checkbox"/>	038_Bl.k.d	2024-04-22 20:24:48	Blank		BEC0901-BLK1		1.0000	3209
+	<input type="checkbox"/>	<input type="checkbox"/>	039_LCS.d	2024-04-22 20:27:08	LCS		BEC0901-BS1		1.0000	3210
+	<input type="checkbox"/>	<input type="checkbox"/>	040_Bl.k.d	2024-04-22 20:29:27	Blank		BED0876-BLK1		1.0000	3301
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	041LICV.d	2024-04-22 20:31:46	LLICV		BED0876-MRL1		1.0000	3302
+	<input type="checkbox"/>	<input type="checkbox"/>	042_LCS.d	2024-04-22 20:34:07	LCS		BED0876-BS1		1.0000	3303
+	<input type="checkbox"/>	<input type="checkbox"/>	043SMPL.	2024-04-22 20:36:26	Sample		WED0874-01		1.0000	3304
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	044SMPL.	2024-04-22 20:38:44	Sample		WED0874-02		1.0000	3305
+	<input type="checkbox"/>	<input type="checkbox"/>	045_ARF.d	2024-04-22 20:41:05	AllRef		WED0874-03		1.0000	3306
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	046_LFM.d	2024-04-22 20:43:23	LFM		BED0876-MS1		1.0000	3307
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	047LFMD.	2024-04-22 20:45:42	LFMDup		BED0876-MSD1		1.0000	3308
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	048SMPL.	2024-04-22 20:48:03	Sample		WED0874-07		1.0000	3311
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	049SMPL.	2024-04-22 20:50:22	Sample		WED0874-08		1.0000	3312
+	<input checked="" type="checkbox"/>	<input type="checkbox"/>	050SMPL.	2024-04-22 20:52:41	Sample		WED0874-09		1.0000	3401

Sample										
	<input type="checkbox"/>	Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+	51	<input checked="" type="checkbox"/>	<input type="checkbox"/>	051SMPL.	2024-04-22 20:55:01	Sample	WED0874-10		1.0000	3402
+	52	<input checked="" type="checkbox"/>	<input type="checkbox"/>	052SMPL.	2024-04-22 20:57:20	Sample	WED0874-11		1.0000	3403
+	53	<input checked="" type="checkbox"/>	<input type="checkbox"/>	053_RIN.d	2024-04-22 20:59:38	RINSE	Rinse		1.0000	4
+	54		<input type="checkbox"/>	054_CCV.	2024-04-22 21:01:58	CCV	CCV		1.0000	1307
+	55	<input checked="" type="checkbox"/>	<input type="checkbox"/>	055_CCB.	2024-04-22 21:04:16	CCB	CCB		1.0000	1101
+	56		<input type="checkbox"/>	056CALB.	2024-04-22 21:06:34	CalBlk	CCB		1.0000	1101
+	57		<input type="checkbox"/>	057_RIN.d	2024-04-22 21:08:54	RINSE	Rinse		1.0000	5
+	58	<input checked="" type="checkbox"/>	<input type="checkbox"/>	058_ARF.d	2024-04-22 21:11:12	AllRef	WED0874-12		1.0000	3404
+	59	<input checked="" type="checkbox"/>	<input type="checkbox"/>	059_LFM.d	2024-04-22 21:13:31	LFM	BED0876-MS2		1.0000	3405
+	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	060LFMD.	2024-04-22 21:15:52	LFMDup	BED0876-MSD2		1.0000	3406
+	61		<input type="checkbox"/>	061SMPL.	2024-04-22 21:18:11	Sample	WED0874-13		1.0000	3407
+	62	<input checked="" type="checkbox"/>	<input type="checkbox"/>	062SMPL.	2024-04-22 21:20:30	Sample	WED0874-04		1.0000	3501
+	63	<input checked="" type="checkbox"/>	<input type="checkbox"/>	063SMPL.	2024-04-22 21:22:51	Sample	WED0874-06		1.0000	3502
+	64	<input checked="" type="checkbox"/>	<input type="checkbox"/>	064SMPL.	2024-04-22 21:25:09	Sample	WEC0864-04	FLAG AND REPOR	1.0000	3503
+	65	<input checked="" type="checkbox"/>	<input type="checkbox"/>	065SMPL.	2024-04-22 21:27:28	Sample	WEC0864-05	FLAG AND REPOR	1.0000	3504
+	66	<input checked="" type="checkbox"/>	<input type="checkbox"/>	066_Blk.d	2024-04-22 21:29:48	Blank	BED0876-BLK1		1.0000	3408
+	67	<input checked="" type="checkbox"/>	<input type="checkbox"/>	067_LCS.d	2024-04-22 21:32:07	LCS	BED0876-BS1		1.0000	3409
+	68		<input type="checkbox"/>	068_RIN.d	2024-04-22 21:34:24	RINSE	Rinse		1.0000	4
+	69		<input type="checkbox"/>	069_CCV.	2024-04-22 21:36:45	CCV	CCV		1.0000	1106
+	70		<input type="checkbox"/>	070_CCV.	2024-04-22 21:39:03	CCV	CCV		1.0000	1307
+	71		<input checked="" type="checkbox"/>	071_CCB.	2024-04-22 21:41:21	CalBlk	CCB		1.0000	1101
+	72		<input type="checkbox"/>	072_RIN.d	2024-04-22 21:43:41	RINSE	Rinse		1.0000	5
+	73		<input type="checkbox"/>	073_RIN.d	2024-04-22 21:45:59	RINSE	Rinse		1.0000	4
+	74		<input type="checkbox"/>	074_CCV.	2024-04-22 21:48:17	CCV	CCV		1.0000	1106
+	75	<input checked="" type="checkbox"/>	<input type="checkbox"/>	075_CCB.	2024-04-22 21:50:37	CCB	CCB		1.0000	1101

Sample										
	■	Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+ 76		<input type="checkbox"/>	076_RIN.d	2024-04-22 21:52:55	RINSE		Rinse		1.0000	5
+ 77		<input type="checkbox"/>	077_RIN.d	2024-04-22 21:55:13	RINSE		Rinse		1.0000	5
+ 78		<input type="checkbox"/>	078_RIN.d	2024-04-22 21:57:33	RINSE		Rinse		1.0000	5



AECOS, Inc.

45-939 Kamehameha Hwy, Suite 104 • Kaneohe, HI 96744

Telephone: (808) 234-7770 • Fax: (808) 234-7775 • aecos@aecos.com

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

FILE No.: 1494
REPORT DATE: 04/23/2024
PAGE: 1 of 1

AECOS REPORT OF RESULTS

SAMPLE TYPE: water **AECOS LOG No.:** 50748
DATE SAMPLED: 07/08/24
DATE/TIME RECEIVED: 07/08/24 @1516 **SAMPLER:** B. Weeks
TEMP. CONTROL: 6.2, 6.6 °C (w/IR) **MATRIX:** Water
DATE/TIME ANALYZED: 07/08/24 @1542-1549 **ANALYST:** R. Knapstein

SAMPLE ID ↓	ANALYTE (UNITS)	Enterococcus (MPN/100ml)	Dilution Factor (10 ml / 100 ml)	Number of large positive wells	Number of small positive wells
	METHOD →	ASTM D650399	---	---	---
	TIME SAMPLED ↓				
WW-3	1000	31	10	3	0
WW-6	0844	590	10	34	3
WW-2	0945	63	10	5	1
E-1	0937	<10	10	0	0
E-2	0910	840	10	37	10
D-4	0925	290	10	21	2
D-6	0930	75	10	7	0
D-7	0900	510	10	31	3
D-8	0835	710	10	37	4
U-2/WW-5	1040	890	10	38	10
U-3/WW 4	0835	290	10	16	8

for AECOS, Inc.



AECOS, Inc.

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

pg 2 of 2
CHAIN OF CUSTODY FORM

PROJECT	
FILE No.	
LOG NUMBER	[50748]

CLIENT: Stantec GS	CONTACT: BEN BERRIDGE
ADDRESS: 737 Bishop St suite 305	PHONE No.: 808-476-0067
Honolulu, HI, 96813	Purchase Order No.: []

<input type="checkbox"/> RUSH
<input type="checkbox"/> SEE REVERSE
SPECIAL INSTRUCTIONS

SAMPLED		SAMPLE ID	DATE	TIME	SAMPLE TYPE	CONTAINER(S)	REQUESTED ANALYSES	PRESERVATION
<input checked="" type="checkbox"/>	1	U2 / WW-5	7/3/24	1040	WATER	1 IDEXX	ENTEROCOCCI	
	2	U-3 / WW4	7/8/24	0835	↓	↓ ↓	↓	
	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:	DATE
PRINT NAME: BERT WEEKS	JULY 8 2024
RELINQUISHED:	DATE
SIGNATURE: [Signature]	JULY 8 2024
	TIME 1514

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

RECEIVED FOR LABORATORY:	DATE
SIGNATURE: [Signature]	JULY 8 2024
RELINQUISHED:	TIME
SIGNATURE OR INITIALS:	DATE 1516
	TIME 20

COMMENTS:

PRECAUTIONS:

DISPOSAL:

USE (BLACK) INK

RETURN SAMPLE TO CLIENT

CHAIN OF CUSTODY FORM



AECOS, Inc.

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

PROJECT	
FILE No.	
LOG NUMBER	[059748]

CLIENT: Stantec GS	CONTACT: BEN BERRIDGE
ADDRESS: 737 Bishop st suite 3050	PHONE No.: 808-476-0067
Honolulu, HI, 96813	Purchase Order No.: _____

RUSH
 SEE REVERSE

SPECIAL INSTRUCTIONS

SAMPLED		SAMPLE ID	DATE	TIME	SAMPLE TYPE	CONTAINER(S)	REQUESTED ANALYSES	PRESERVATION
<input checked="" type="checkbox"/>	1	WW-3	7/8/24	1000	WATER	1 IDEXX	ENTEROCOCCI	
	2	WW-6	7/8/24	0844				
	3	WW-2	7/8/24	0945				
	4	E-1	7/8/24	0937				
	5	E-2	7/8/24	0910				
	6	D-4	7/8/24	0925				
	7	D-6	7/8/24	0930				
	8	D-7	7/8/24	0900				
	9	D-8	7/8/24	0835				
	10	seep 2						

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:	DATE	JULY 8 2024
PRINT NAME	BERT WEEKS	JULY 8 2024
RELINQUISHED:	DATE	2024
SIGNATURE	TIME	1514

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

RECEIVED FOR LABORATORY:	DATE	7/8 2024
SIGNATURE	TIME	1516
RELINQUISHED:	DATE	20
SIGNATURE OR INITIALS	TIME	

COMMENTS:

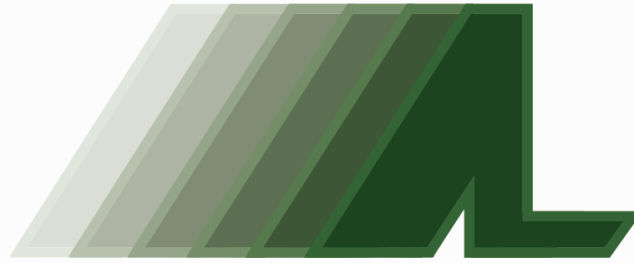
PRECAUTIONS:

DISPOSAL:

USE (BLACK) INK

RETURN SAMPLE TO CLIENT

T₁ = 6.2 °C
T₂ = 6.6 °C w/ ice
No temp control bottles rec'd.



ANATEK LABS

Analytical Results Report For:

Stantec-GS

Project Number:

ADC Water Quality Monitoring

Anatek Work Order:

WEG0469

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
Address: 737 Bishop St., Ste. 3050
Honolulu, HI 96813
Attn: Benjamin Berridge

Work Order: WEG0469
Project: ADC Water Quality Monitoring
Reported: 9/9/2024 17:05

Analytical Results Report

Sample Location: WW-3
Lab/Sample Number: WEG0469-01 **Collect Date:** 07/08/24 10:40
Date Received: 07/10/24 10:00 **Collected By:**
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	12.8	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00124	mg/L	0.00100	7/15/24 16:19	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:17	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0999	7/24/24 21:43	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0999	7/24/24 21:43	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.500	7/24/24 21:43	MAH	EPA 625.1	

<i>Surrogate: Terphenyl-d14</i>	<i>103%</i>		<i>25-135</i>	<i>7/24/24 21:43</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.0800	7/12/24 15:20	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/12/24 15:20	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/12/24 15:20	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/12/24 15:20	BAM	NWTPH-HCID	

<i>Surrogate: n-Hexacosane</i>	<i>93.6%</i>		<i>50-150</i>	<i>7/12/24 15:20</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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: WW-6
Lab/Sample Number: WEG0469-02 Collect Date: 07/08/24 09:45
Date Received: 07/10/24 10:00 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	0.900	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.000256	mg/L	0.00100	7/15/24 16:22	JLG	EPA 200.8	J
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:25	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/12/24 16:16	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/12/24 16:16	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/12/24 16:16	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/12/24 16:16	BAM	NWTPH-HCID	

Surrogate: n-Hexacosane	95.3%		50-150	7/12/24 16:16	BAM	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: WW-2
 Lab/Sample Number: WEG0469-03 Collect Date: 07/08/24 10:15
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	18.6	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00302	mg/L	0.00100	7/15/24 16:57	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:27	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/12/24 17:13	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/12/24 17:13	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/12/24 17:13	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/12/24 17:13	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	<i>89.1%</i>		<i>50-150</i>	<i>7/12/24 17:13</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

Anatek Labs, Inc.

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Sample Location: E-2
 Lab/Sample Number: WEG0469-04 Collect Date: 07/08/24 09:15
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	6.33	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.0254	mg/L	0.00100	7/15/24 16:24	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:30	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.100	7/24/24 22:11	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.100	7/24/24 22:11	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.501	7/24/24 22:11	MAH	EPA 625.1	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: Terphenyl-d14</i>	<i>104%</i>		<i>25-135</i>	<i>7/24/24 22:11</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	1.04	7/12/24 18:09	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	5.20	7/12/24 18:09	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	1.04	7/12/24 18:09	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	5.20	7/12/24 18:09	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	<i>77.8%</i>		<i>50-150</i>	<i>7/12/24 18:09</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Sample Location: E-1
 Lab/Sample Number: WEG0469-05 Collect Date: 07/08/24 10:50
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	18.0	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00223	mg/L	0.00100	7/15/24 16:59	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:32	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0941	7/24/24 22:38	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0941	7/24/24 22:38	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.470	7/24/24 22:38	MAH	EPA 625.1	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: Terphenyl-d14</i>	<i>112%</i>		<i>25-135</i>	<i>7/24/24 22:38</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.0800	7/12/24 20:56	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/12/24 20:56	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/12/24 20:56	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/12/24 20:56	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	<i>91.5%</i>		<i>50-150</i>	<i>7/12/24 20:56</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Sample Location: E-1 Dup
 Lab/Sample Number: WEG0469-06 Collect Date: 07/08/24 11:00
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	14.0	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00227	mg/L	0.00100	7/15/24 17:06	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:40	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0993	7/24/24 23:05	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0993	7/24/24 23:05	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.497	7/24/24 23:05	MAH	EPA 625.1	
<hr/>							
<i>Surrogate: Terphenyl-d14</i>	<i>102%</i>		<i>25-135</i>	<i>7/24/24 23:05</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.0800	7/12/24 21:51	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/12/24 21:51	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/12/24 21:51	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/12/24 21:51	BAM	NWTPH-HCID	
<hr/>							
<i>Surrogate: n-Hexacosane</i>	<i>88.9%</i>		<i>50-150</i>	<i>7/12/24 21:51</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Sample Location: D-4
Lab/Sample Number: WEG0469-07 Collect Date: 07/08/24 09:45
Date Received: 07/10/24 10:00 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	18.0	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00183	mg/L	0.00100	7/15/24 16:26	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:42	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/13/24 4:16	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/13/24 4:16	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/13/24 4:16	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/13/24 4:16	BAM	NWTPH-HCID	

Surrogate: n-Hexacosane	85.0%		50-150	7/13/24 4:16	BAM	NWTPH-HCID	

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Sample Location: D-6
 Lab/Sample Number: WEG0469-08 Collect Date: 07/08/24 10:15
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	650	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00161	mg/L	0.00100	7/15/24 16:29	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:45	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/13/24 5:12	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/13/24 5:12	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/13/24 5:12	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/13/24 5:12	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	<i>92.9%</i>		<i>50-150</i>	<i>7/13/24 5:12</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Sample Location: D-7
 Lab/Sample Number: WEG0469-09 Collect Date: 07/08/24 09:30
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	38.0	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.000487	mg/L	0.00100	7/15/24 16:31	JLG	EPA 200.8	J
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 13:47	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/13/24 6:07	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/13/24 6:07	BAM	NWTPH-HCID	
Lube Oil	0.548	mg/L	0.0800	7/13/24 6:07	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/13/24 6:07	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	<i>93.8%</i>		<i>50-150</i>	<i>7/13/24 6:07</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Sample Location: D-8
 Lab/Sample Number: WEG0469-10 Collect Date: 07/08/24 08:45
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	7.90	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00520	mg/L	0.00100	7/15/24 16:34	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 14:00	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/13/24 7:02	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/13/24 7:02	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/13/24 7:02	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/13/24 7:02	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	<i>71.2%</i>		<i>50-150</i>	<i>7/13/24 7:02</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Sample Location: U-2/WW-5
 Lab/Sample Number: WEG0469-11 Collect Date: 07/08/24 10:45
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	14.0	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.000297	mg/L	0.00100	7/15/24 16:36	JLG	EPA 200.8	J
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 14:03	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/13/24 7:57	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/13/24 7:57	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	7/13/24 7:57	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/13/24 7:57	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	94.6%		50-150	7/13/24 7:57	BAM	NWTPH-HCID	

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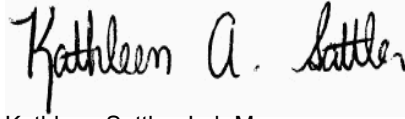
Sample Location: U-3/WW-4
 Lab/Sample Number: WEG0469-12 Collect Date: 07/08/24 08:20
 Date Received: 07/10/24 10:00 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	12.3	mg/L		7/12/24 10:35	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.000307	mg/L	0.00100	7/15/24 16:38	JLG	EPA 200.8	J
Mercury							
Mercury	ND	ug/L	0.100	7/18/24 14:05	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	7/13/24 8:52	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	7/13/24 8:52	BAM	NWTPH-HCID	
Lube Oil	0.725	mg/L	0.0800	7/13/24 8:52	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	7/13/24 8:52	BAM	NWTPH-HCID	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: n-Hexacosane</i>	<i>97.5%</i>		<i>50-150</i>	<i>7/13/24 8:52</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Authorized Signature,



Kathleen Sattler, Lab Manager

J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable. Potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
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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The results reported related only to the samples indicated.

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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: BEG0468 - W Filtration										
Blank (BEG0468-BLK1)										
TSS	<0.1			mg/L						
					Prepared: 07/11/24 13:05- Analyzed: 07/12/24 10:35					
Blank (BEG0468-BLK2)										
TSS	<0.1			mg/L						
					Prepared: 07/11/24 13:05- Analyzed: 07/12/24 10:35					
LCS (BEG0468-BS1)										
TSS	95.0			mg/L	100		95.0	90-110		
					Prepared: 07/11/24 13:05- Analyzed: 07/12/24 10:35					
Duplicate (BEG0468-DUP1)										
TSS	12.0			mg/L		12.8			6.45	20
					Prepared: 07/11/24 13:05- Analyzed: 07/12/24 10:35					
Matrix Spike (BEG0468-MS1)										
TSS	136			mg/L	100	18.0	118	80-120		
					Prepared: 07/11/24 13:05- Analyzed: 07/12/24 10:35					
Matrix Spike Dup (BEG0468-MSD1)										
TSS	132			mg/L	100	18.0	114	80-120	2.99	20
					Prepared: 07/11/24 13:05- Analyzed: 07/12/24 10:35					

Quality Control Data

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0543 - W 3010 Digest										
Blank (BEG0543-BLK1)										
Arsenic	ND		0.00100	mg/L						
					Prepared: 07/12/24 16:08- Analyzed: 07/15/24 16:11					
LCS (BEG0543-BS1)										
Arsenic	0.0491		0.00100	mg/L	0.0500		98.1	85-115		
					Prepared: 07/12/24 16:08- Analyzed: 07/15/24 16:17					
Matrix Spike (BEG0543-MS1)										
Arsenic	0.0623		0.00100	mg/L	0.0500	0.00223	120	70-130		
					Prepared: 07/12/24 16:08- Analyzed: 07/15/24 17:02					
Matrix Spike (BEG0543-MS2)										
Arsenic	0.0492		0.00100	mg/L	0.0500	0.000307	97.9	70-130		
					Prepared: 07/12/24 16:08- Analyzed: 07/15/24 16:41					
Matrix Spike Dup (BEG0543-MSD1)										
Arsenic	0.0535		0.00100	mg/L	0.0500	0.00223	103	70-130	15.2	20
					Prepared: 07/12/24 16:08- Analyzed: 07/15/24 17:04					
Matrix Spike Dup (BEG0543-MSD2)										
Arsenic	0.0489		0.00100	mg/L	0.0500	0.000307	97.1	70-130	0.768	20
					Prepared: 07/12/24 16:08- Analyzed: 07/15/24 16:43					

Quality Control Data

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEG0604 - W 245.1 Digest

Blank (BEG0604-BLK1)

Mercury ND 0.100 ug/L Prepared: 07/15/24 14:51- Analyzed: 07/18/24 13:09

LCS (BEG0604-BS1)

Mercury 4.20 0.100 ug/L 4.10 102 85-115 Prepared: 07/15/24 14:51- Analyzed: 07/18/24 13:04

Matrix Spike (BEG0604-MS1)

Mercury 5.83 M2 0.100 ug/L 4.10 ND 142 70-130 Source: WEG0469-01 Prepared: 07/15/24 14:51- Analyzed: 07/18/24 13:20

Matrix Spike (BEG0604-MS2)

Mercury 5.12 0.100 ug/L 4.10 ND 125 70-130 Source: WEG0469-05 Prepared: 07/15/24 14:51- Analyzed: 07/18/24 17:06

Matrix Spike Dup (BEG0604-MSD1)

Mercury 5.44 M2 0.100 ug/L 4.10 ND 133 70-130 6.92 20 Source: WEG0469-01 Prepared: 07/15/24 14:51- Analyzed: 07/18/24 13:22

Matrix Spike Dup (BEG0604-MSD2)

Mercury 4.84 0.100 ug/L 4.10 ND 118 70-130 5.62 20 Source: WEG0469-05 Prepared: 07/15/24 14:51- Analyzed: 07/18/24 13:37

Quality Control Data (Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEG0441 - W TPH-Dx

Blank (BEG0441-BLK1)

Lube Oil ND 0.0800 mg/L Prepared: 07/11/24 10:09- Analyzed: 07/12/24 12:31

Mineral Oil ND 0.400 mg/L

Gasoline ND 0.400 mg/L

Diesel ND 0.0800 mg/L

Surrogate: n-Hexacosane 0.182 mg/L 0.200 90.8 50-150

LCS (BEG0441-BS1)

Diesel 1.42 0.0800 mg/L 2.00 71.0 70-130 Prepared: 07/11/24 10:09- Analyzed: 07/12/24 13:27

Surrogate: n-Hexacosane 0.172 mg/L 0.200 85.6 50-150

Matrix Spike (BEG0441-MS1)

Diesel 1.90 0.0800 mg/L 2.00 ND 94.8 70-130 Source: WEG0469-05 Prepared: 07/11/24 10:09- Analyzed: 07/12/24 19:05

Surrogate: n-Hexacosane 0.149 mg/L 0.200 74.6 50-150

Matrix Spike Dup (BEG0441-MSD1)

Diesel 1.89 0.0800 mg/L 2.00 ND 94.3 70-130 0.539 20 Source: WEG0469-05 Prepared: 07/11/24 10:09- Analyzed: 07/12/24 20:00

Surrogate: n-Hexacosane 0.178 mg/L 0.200 88.9 50-150

Batch: BEG1115 - SVOC Water

Blank (BEG1115-BLK1)

Atrazine ND 0.100 ug/L Prepared: 07/15/24 07:11- Analyzed: 07/24/24 21:16

Permethrin ND 0.500 ug/L

Metolachlor ND 0.100 ug/L

Surrogate: Terphenyl-d14 20.3 ug/L 25.0 81.1 25-135

LCS (BEG1115-BS1)

Atrazine 5.07 0.100 ug/L 5.00 101 60-125 Prepared: 07/15/24 07:11- Analyzed: 07/24/24 20:49

Metolachlor 5.99 0.100 ug/L 5.00 120 60-125

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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
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Batch: BEG1115 - SVOC Water (Continued)

LCS (BEG1115-BS1)

Prepared: 07/15/24 07:11- Analyzed: 07/24/24 20:49

Surrogate: Terphenyl-d14 26.5 ug/L 25.0 106 25-135

Matrix Spike (BEG1115-MS1)

Source: WEG0469-05

Prepared: 07/15/24 07:11- Analyzed: 07/24/24 19:53

Atrazine 10.1 0.200 ug/L 10.0 ND 101 40-140

Metolachlor 11.8 0.200 ug/L 10.0 ND 118 40-140

Surrogate: Terphenyl-d14 51.8 ug/L 50.0 104 60-130

Matrix Spike Dup (BEG1115-MSD1)

Source: WEG0469-05

Prepared: 07/15/24 07:11- Analyzed: 07/24/24 20:21

Atrazine 10.3 0.200 ug/L 10.0 ND 103 40-140 2.36 40

Metolachlor 12.0 0.200 ug/L 10.0 ND 120 40-140 1.01 40

Surrogate: Terphenyl-d14 52.8 ug/L 50.0 106 60-130



Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek
Log-In #

WEG0469

 Due: 07/24/24

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

Please refer to our normal lab website at
<http://www.anateklabs.com/services/guidelines/reporting.asp>

Normal
 Next Day*
 2nd Day*
 Other*

Phone
 Mail
 Fax
 Email

*All rush order requests must be prior approved.

Provide Sample Description **List Analyses Requested**

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:																
						TSS EPA 160.2	TPH HClID + SW 846 MOD 8015	**TPH GRO SW646/8015	Arsenic EPA 200.8	Mercury EPA 245.1	Pesticides-EPA 625 SW Permethrin, Atrazine & Metolachlor	Glyphosate EPA 547	Paraquat Dichloride EPA									
Storm water samples																						
3	WW-3	7-8-2024 / 10:40 HST	Water	7		X	X	X	X	X	X			X								
1	WW-6	7-8-2024 / 09:45 HST	Water	5		X	X	X	X	X												
2	WW-2	7-8-2024 / 10:15HST	Water	5		X	X	X	X	X												
4	E-2	7-8-2024 / 09:15 HST	Water	7		X	X	X	X	X	X			X								
4	E-1	7-8-2024 / 10:50 HST	Water	7		X	X	X	X	X	X			X								
4	E-1 DUP	7-8-2024 / 11:00 HST	Water	7		X	X	X	X	X	X			X								
4	E-1 MS/MSD	7-8-2024 / 11:10 HST	Water	7		X	X	X	X	X	X			X								
1	D-4	7-8-2024 / 09:45 HST	Water	5		X	X	X	X	X												
1	D-6	7-8-2024 / 10:15 HST	Water	5		X	X	X	X	X												
1	D-7	7-8-2024 / 9:30 HST	Water	5		X	X	X	X	X												
2	D-8	7-8-2024 / 08:45 HST	Water	5		X	X	X	X	X												
4	U-2/WW-5	7-8-2024 / 10:45 HST	Water	5		X	X	X	X	X												
2	U-3/WW-4	7-8-2024 / 08:20 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.**

Inspection Checklist

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

See attached

Temperature (°C): _____

Preservative: _____

Date & Time: _____

Inspected By: _____

	Printed Name	Signature	Company	Date	Time
Relinquished by	Sydney Gabitzer	<i>Sydney Gabitzer</i>	Stantec	7-8-24	13:00
Received by	Kathy Sattler	<i>Kathy Sattler</i>	Anatek Labs, Inc.	7-10-24	1000
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Sub-contracted analyses will be clearly noted on the analytical report.



Sample Receipt and Preservation Form

WE G0469



Due: 07/24/24

Client Name: Stantec GS Project: (apply Anatek sample label here)

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 3 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): _____ Cooler Temp Corrected (°C): _____ Thermometer Used: IR#6

Cooler 1 0.6°C Cooler #2 0.7°C Cooler #3 2.1°C IR Cooler #4 received 7-11-24 12.6°C
Comments:

Samples Received Intact? Yes No N/A
 Chain of Custody Present? Yes No N/A
 Samples Received Within Hold Time? Yes No N/A
 Samples Properly Preserved? Yes No N/A
 VOC Vials Free of Headspace (<6mm)? Yes No N/A
 VOC Trip Blanks Present? Yes No N/A
 Labels and Chains Agree? Yes No N/A
 Total Number of Sample Bottles Received: 75

Chain of Custody Fully Completed? Yes No N/A
 Correct Containers Received? Yes No N/A
 Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

G1000mL HCl 2400468
G44mL HCl 2400468
P1000mL

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: Kathleen A. Lattler Date/Time: 7-10-24 1000



Anatek Labs, Inc.

Sample Receipt and Preservation Form

WEG0469



Due: 07/24/24

Client Name: Stantec GS Project: _____ (apply Anatek sample label here)

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 3 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): _____ Cooler Temp Corrected (°C): _____ Thermometer Used: IR#6
Cooler #1 0.6°C Cooler #2 0.7°C Cooler #3 2.1°C IR Cooler #4 received 7-11-24 12.6°C
Comments:

Samples Received Intact?	<u>Yes</u>	No	N/A
Chain of Custody Present?	<u>Yes</u>	No	N/A
Samples Received Within Hold Time?	<u>Yes</u>	No	N/A
Samples Properly Preserved?	<u>Yes</u>	No	N/A
VOC Vials Free of Headpace (<6mm)?	<u>Yes</u>	No	N/A
VOC Trip Blanks Present?	<u>Yes</u>	No	<u>N/A</u>
Labels and Chains Agree?	<u>Yes</u>	No	N/A
Total Number of Sample Bottles Received:	<u>75</u>		

Chain of Custody Fully Completed?	<u>Yes</u>	No	N/A
Correct Containers Received?	<u>Yes</u>	No	N/A
Anatek Bottles Used?	<u>Yes</u>	No	Unknown

Record preservatives (and lot numbers, if known) for containers below:

G1000 mL HCl 2400468
G44 mL HCl 2400468
P1000 mL

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Cooler 4 received 7-11-24
Samples E-2, E-1, E-1-DUP, E-1 MS/MSD

Received/Inspected By: Kathleen A. Lattler Date/Time: 7-10-24 1000

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

Report Number: P241282
Report Date: August 08, 2024
Client Project ID: WEG0469

Analytical Report

Client Sample ID: WEG0469-01
Matrix: water



PAL Sample ID: P241282-01
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: WEG0469-04
Matrix: water



PAL Sample ID: P241282-02
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: WEG0469-05
Matrix: water



PAL Sample ID: P241282-03
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: WEG0469-05 DUP
Matrix: water

PAL Sample ID: P241282-04
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3



Daniel Miller, Laboratory Manager

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



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: P241282
Report Date: August 08, 2024
Client Project ID: WEG0469

Analytical Report

Client Sample ID: WEG0469-06



Matrix: water

PAL Sample ID: P241282-05

Sample Date: 7/8/24

Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Daniel Miller, Laboratory Manager

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



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

Report Number: P241282
Report Date: August 08, 2024
Client Project ID: WEG0469

Quality Assurance

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
8/6/24	8/6/24	24H0604-BLK1	Paraquat	Not Detected	< 10 ug/L	

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
8/6/24	8/6/24	24H0604-BS1	Paraquat	98	60-140	
8/6/24	8/6/24	24H0604-BSD1	Paraquat	102	60-140	

Project Notes

Notes	Definition
H3	The sample was analyzed outside of recommended hold time.

Daniel Miller, Laboratory Manager

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

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

Anatek Labs. Inc. Spokane

Batch ID: BEG0468 Date: 07.11.24 Time: 13:28 Initials: EMG

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.	2402250	100 ppm	BAL-06	5	105	2400563	T-Oven 5

Comments:

Date/Time of Weigh: 7.11.24 16:41 7.12.24 10:35

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
BEG0468-BLK1	Blank	686	0.1055	1000	0.1054	0.1058	0.1	-1.00	-0.10	
BEG0468-BLK2	Blank	703	0.106	1000	0.106	0.1062	0.1			
BEG0468-BS1	LCS	687	0.1056	100	0.1153	0.1151	1	95.00	95.00	
BEG0468-DUP1	Duplicate WEG0469-01	688	0.1051	250	0.1082	0.1081	0.4	30.00	12.00	
WEG0469-01	WW-3	689	0.1054	250	0.1086	0.1086	0.4	32.00	12.80	
WEG0469-02	WW-6	690	0.1057	1000	0.1068	0.1066	0.1	9.00	0.90	
WEG0469-03	WW-2	691	0.105	500	0.1146	0.1143	0.2	93.00	18.60	
WEG0469-04	E-2	692	0.1045	300	0.1065	0.1064	0.3333333	19.00	6.33	
BEG0468-MS1	Matrix Spike WEG0469-05	693	0.1063	50	0.1132	0.1131	2	68.00	136.00	
BEG0468-MSD1	Matrix Spike Dup WEG04	694	0.1063	50	0.1129	0.1129	2	66.00	132.00	
WEG0469-05	E-1	695	0.1047	250	0.1094	0.1092	0.4	45.00	18.00	
WEG0469-06	E-1 Dup	696	0.1067	250	0.1102	0.1102	0.4	35.00	14.00	
WEG0469-07	D-4	697	0.1063	500	0.1155	0.1153	0.2	90.00	18.00	
WEG0469-08	D-6	698	0.1055	100	0.1707	0.1705	1	650.00	650.00	
WEG0469-09	D-7	699	0.1064	200	0.114	0.1141	0.5	76.00	38.00	
WEG0469-10	D-8	700	0.1063	1000	0.1142	0.1146	0.1	79.00	7.90	
WEG0469-11	U-2/WW-5	701	0.1057	500	0.1129	0.1127	0.2	70.00	14.00	
WEG0469-12	U-3/WW-4	702	0.1061	750	0.1153	0.1153	0.1333333	92.00	12.27	



TPHDx/HCID Extractions by EPA8015mod

Anatek Labs, Inc Spokane

Batch: BEG0441 Date: 7/14/24 Time: 10:30 Initial: BAM

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)
BEG0441-BLK1	Blank	water	250 µL	0	10	10		yes	1
BEG0441-BS1	LCS	water		25	10	10			1
BEG0441-BSD1	LCS Dup	water		25	10	10			1
WEG0469-01	WW-3	water		0	10	10			1
WEG0469-02	WW-6	water		0	10	10			1
WEG0469-03	WW-2	water		0	10	10			1
WEG0469-04	E-2	water		0	10	10			1
BEG0441-MS1	Matrix Spike WEG0469	water		25	10	10			1
BEG0441-MSD1	Matrix Spike Dup WEG0469	water		25	10	10			1
WEG0469-05	E-1	water		0	10	10			1
BEG0441-DUP1	duplicate WEG0469	water			10	10			1
WEG0469-06	E-1 Dup	water			10	10			1
WEG0469-07	D-4	water			10	10			1
WEG0469-08	D-6	water			10	10			1
WEG0469-09	D-7	water			10	10			1
WEG0469-10	D-8	water			10	10			1
WEG0469-11	U-2/WW-5	water			10	10			1
WEG0469-12	U-3/WW-4	water			10	10			1
WEG0474-01	T518 Pumpout	water			10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1
					10	10			1

* 13mL

MeCl ₂	2400901	Balance	-
Na ₂ SO ₄	2400691	Pipette	PT-11
Gas 20,000 ppm	2203385		
Diesel 20,000 ppm	2402447		
Motor Oil 20,000 ppm	2400995		
Internal Standard	2402243		
Surrogate Standard	2402448		
Diesel ICV	2203384		

* E2 has large matrix effect
 * E1 MS/MSD have large matrix effect
 * batched E1-dup, and a duplicate for E-1, crossed out dup 1 because it is same as E1-dup*



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10001.D Vial: 1
 Acq On : 12 Jul 2024 6:57 am Operator: BAM
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 13:22:07 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.00	126398610	50.000 ppm
------------------	-------	-----------	------------

System Monitoring Compounds

2) S Hexacosane	26.65	117573519	49.627 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 99.25%			

Target Compounds

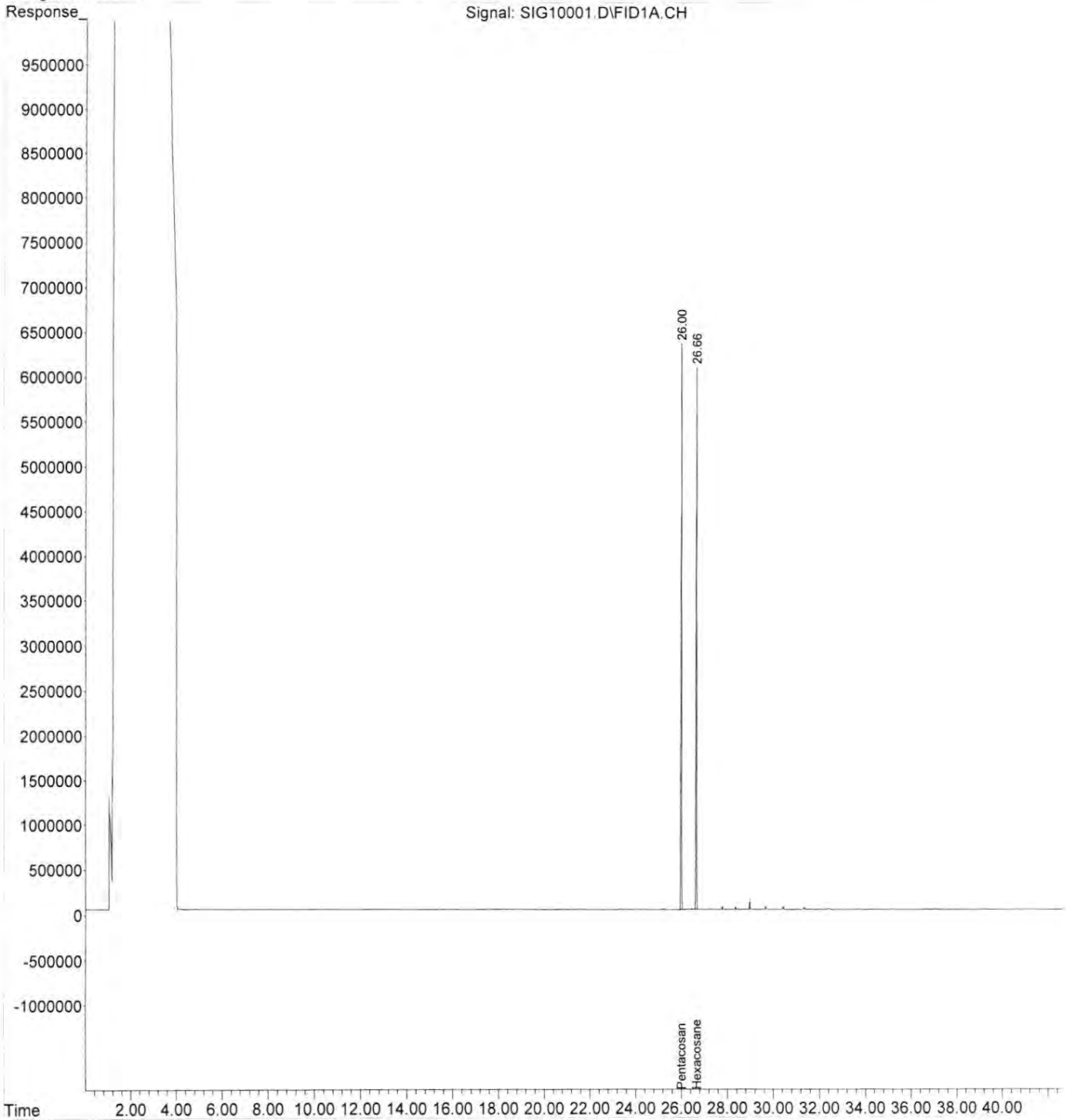
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10001.D Vial: 1
Acq On : 12 Jul 2024 6:57 am Operator: BAM
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 13:25 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10002.D Vial: 2
 Acq On : 12 Jul 2024 7:52 am Operator: BAM
 Sample : ICV 500PPM Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 13:22:09 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

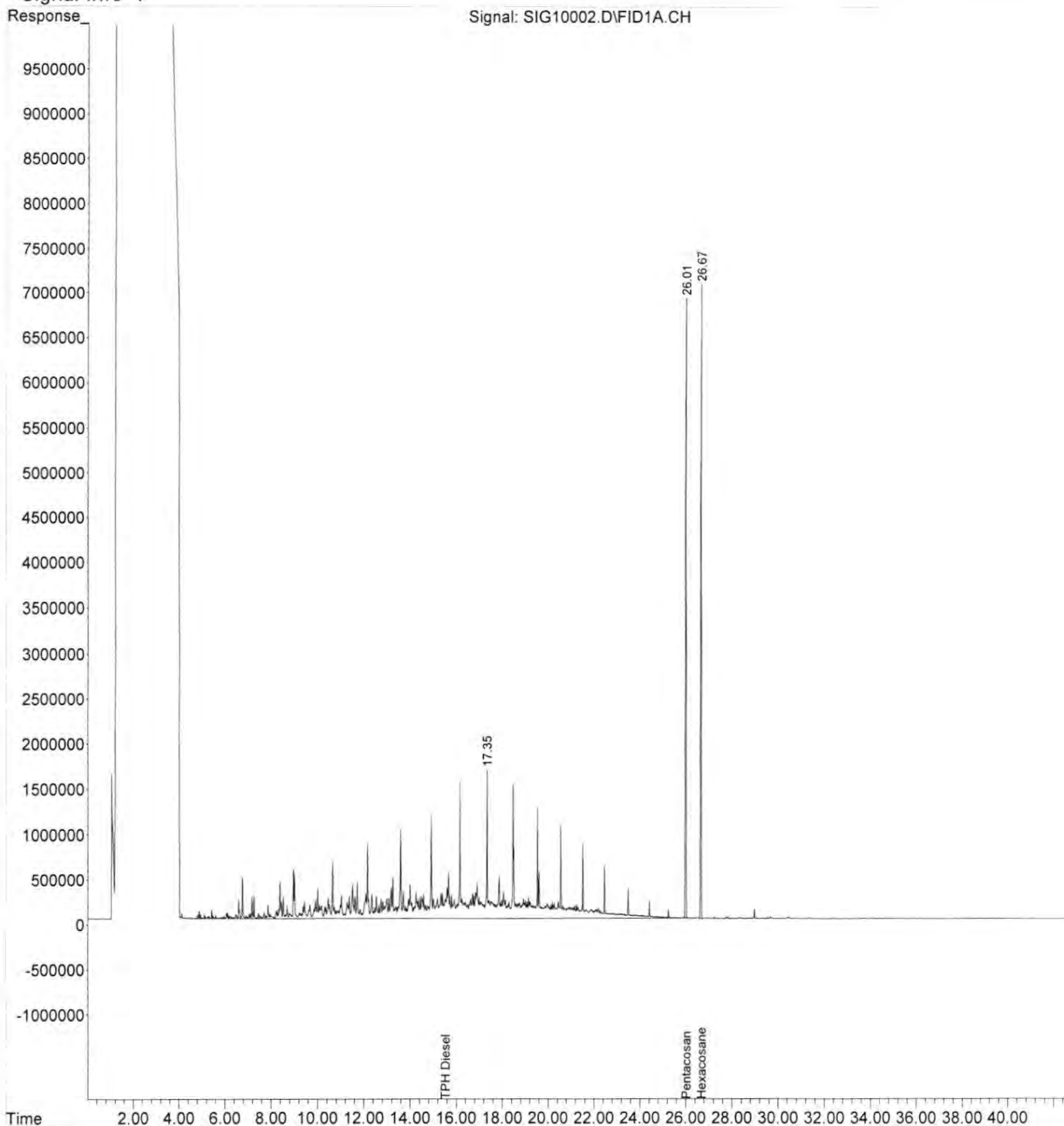
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.00	150956453	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.67	138624315	48.993 ppm m
Spiked Amount 50.000 Range 50 - 150 Recovery = 97.99%			
Target Compounds			
3) H TPH Diesel (C12-C14)	15.50	1417378240	522.097 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10002.D Vial: 2
Acq On : 12 Jul 2024 7:52 am Operator: BAM
Sample : ICV 500PPM Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 13:25 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10003.D Vial: 3
 Acq On : 12 Jul 2024 8:48 am Operator: BAM
 Sample : DX 500PPM CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 13:22:12 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

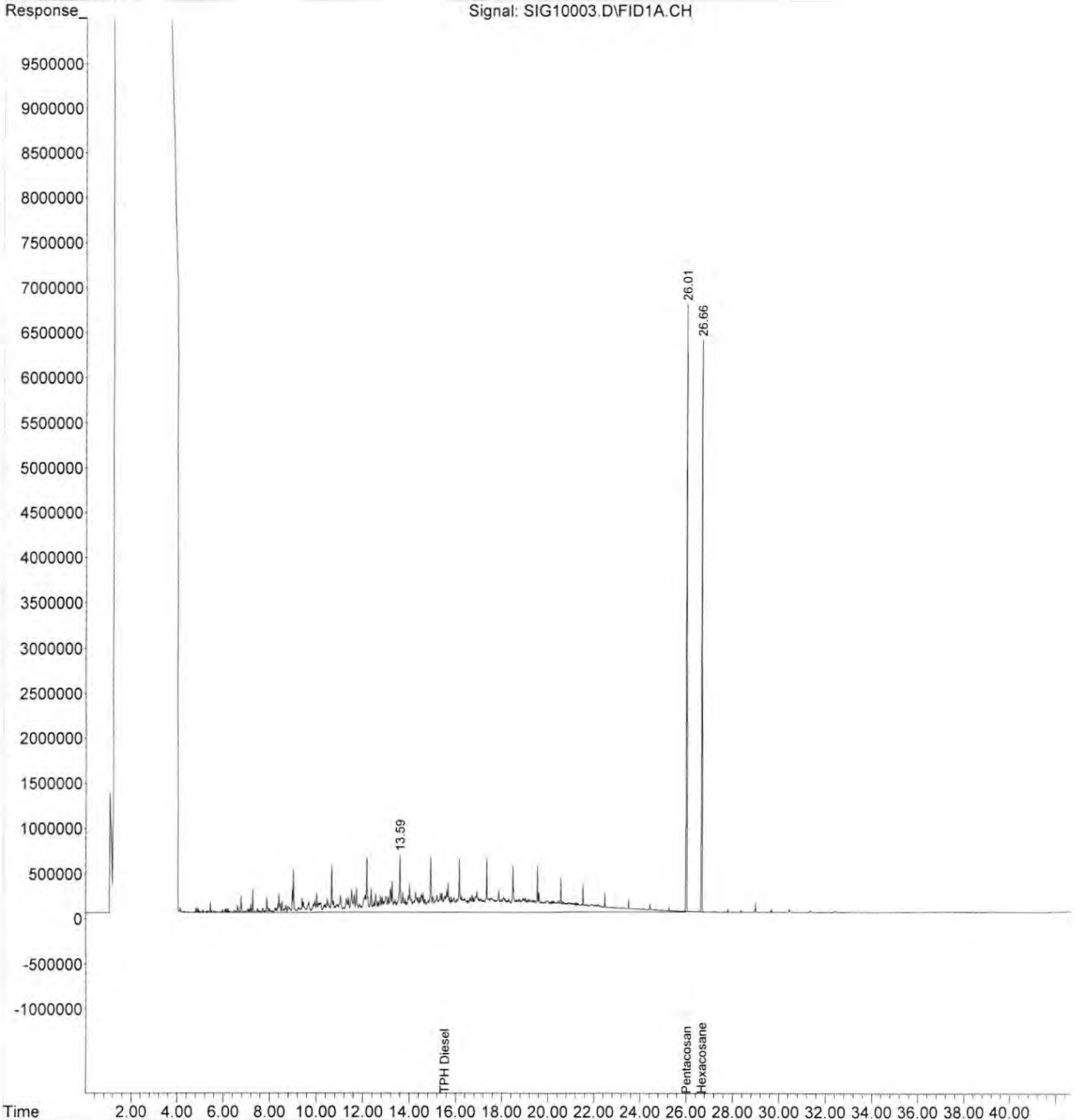
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.00	126248442	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.66	117524635	49.665 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 99.33%			
Target Compounds			
3) H TPH Diesel (C12-C14)	15.50	1140087984	502.146 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10003.D Vial: 3
Acq On : 12 Jul 2024 8:48 am Operator: BAM
Sample : DX 500PPM CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 13:26 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10004.D Vial: 4
 Acq On : 12 Jul 2024 9:44 am Operator: BAM
 Sample : LO 1000 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 13:22:13 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.03	209016949	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.68	195441336	49.887 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 99.77%			

Target Compounds

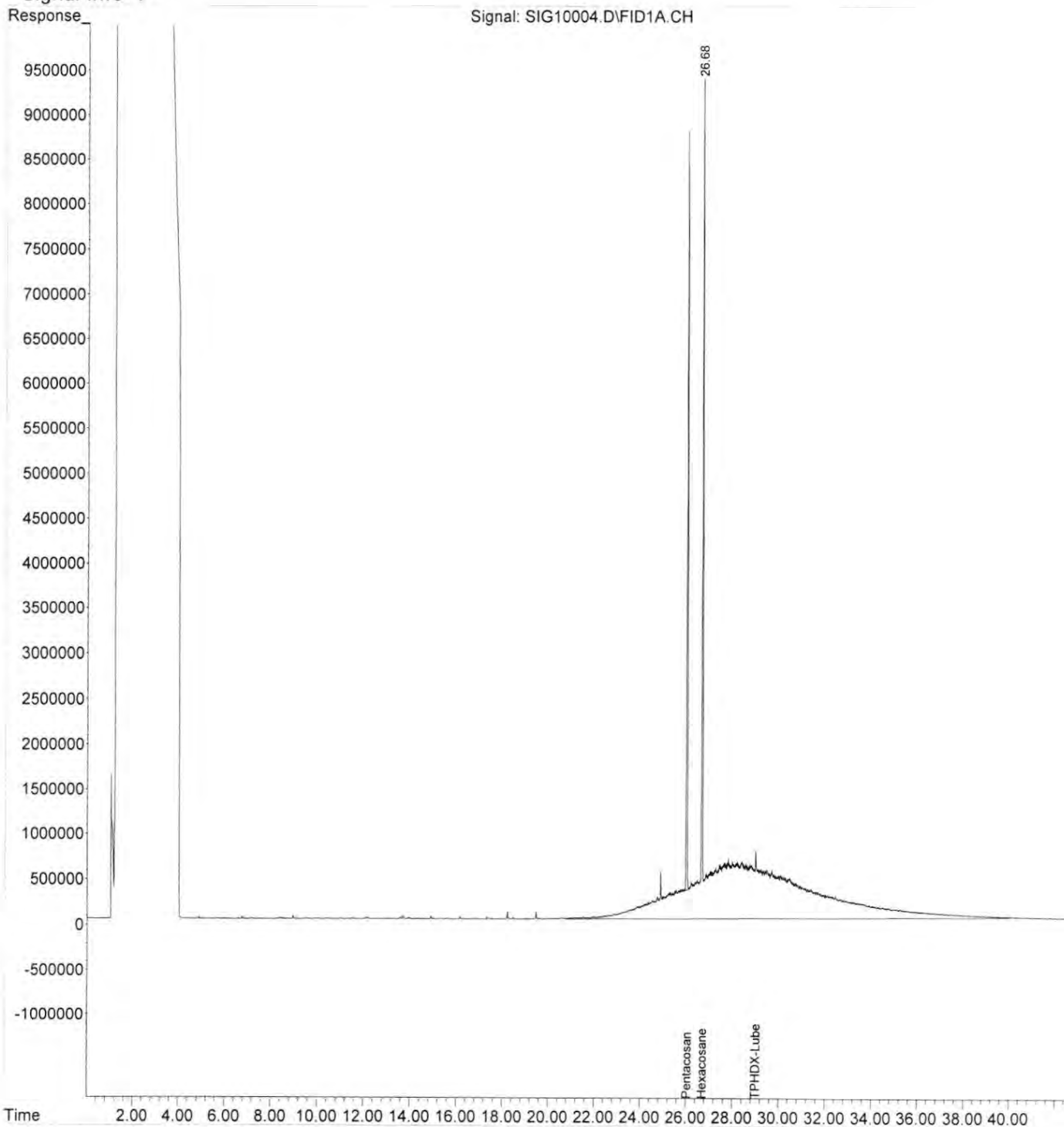
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	29.00	2389856546	1040.945 ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10004.D Vial: 4
Acq On : 12 Jul 2024 9:44 am Operator: BAM
Sample : LO 1000 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 13:26 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10005.D Vial: 5
 Acq On : 12 Jul 2024 10:39 am Operator: BAM
 Sample : MO 1000 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 13:22:15 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	143206786	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	132415104	49.331 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 98.66%			

Target Compounds

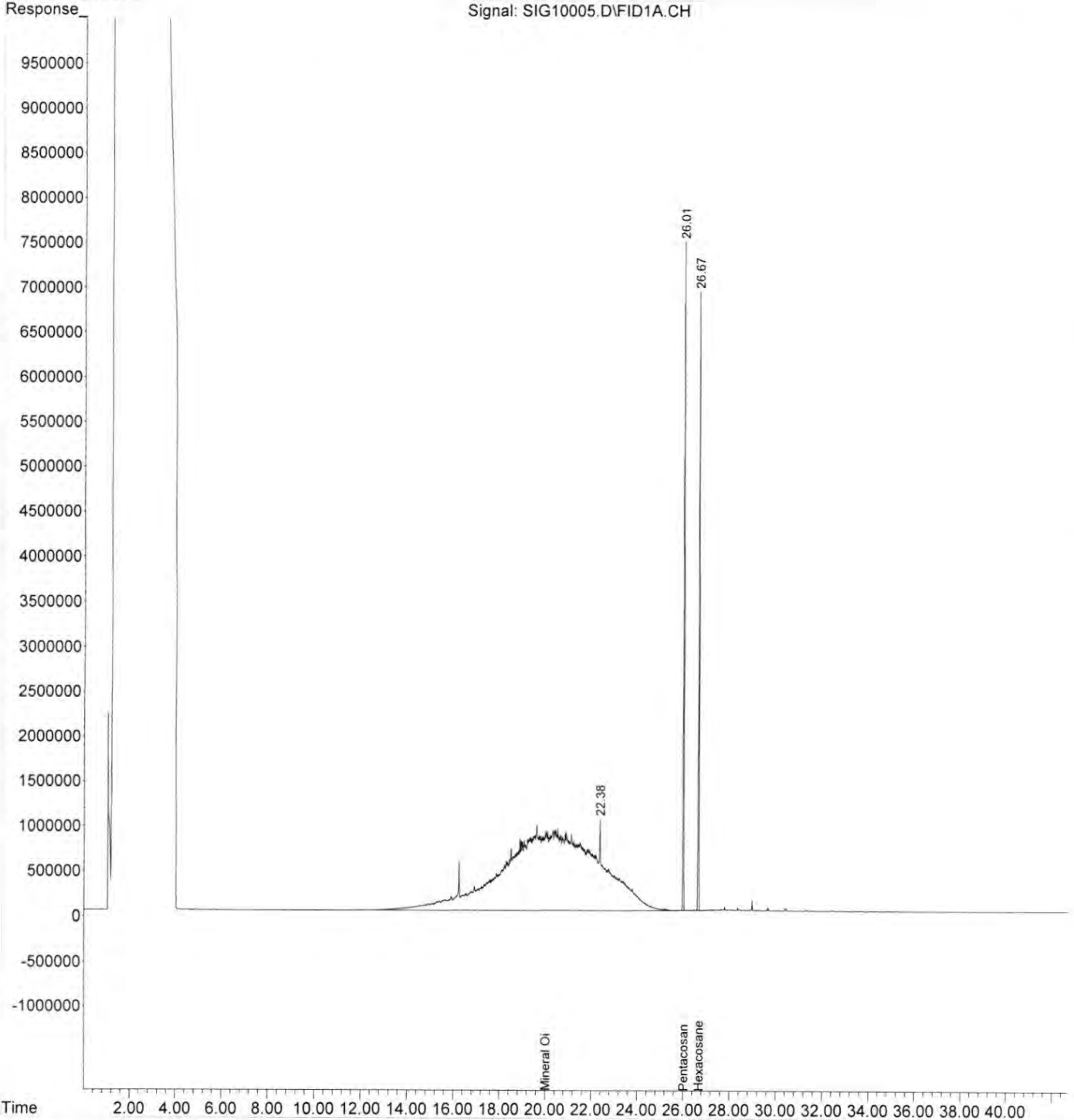
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	20.00	2600924550	976.653 ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10005.D Vial: 5
Acq On : 12 Jul 2024 10:39 am Operator: BAM
Sample : MO 1000 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 13:27 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10006.D Vial: 6
 Acq On : 12 Jul 2024 11:35 am Operator: BAM
 Sample : GAS 40 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 13:22:17 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.00	127678522	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	119729456	50.030 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 100.06%			

Target Compounds

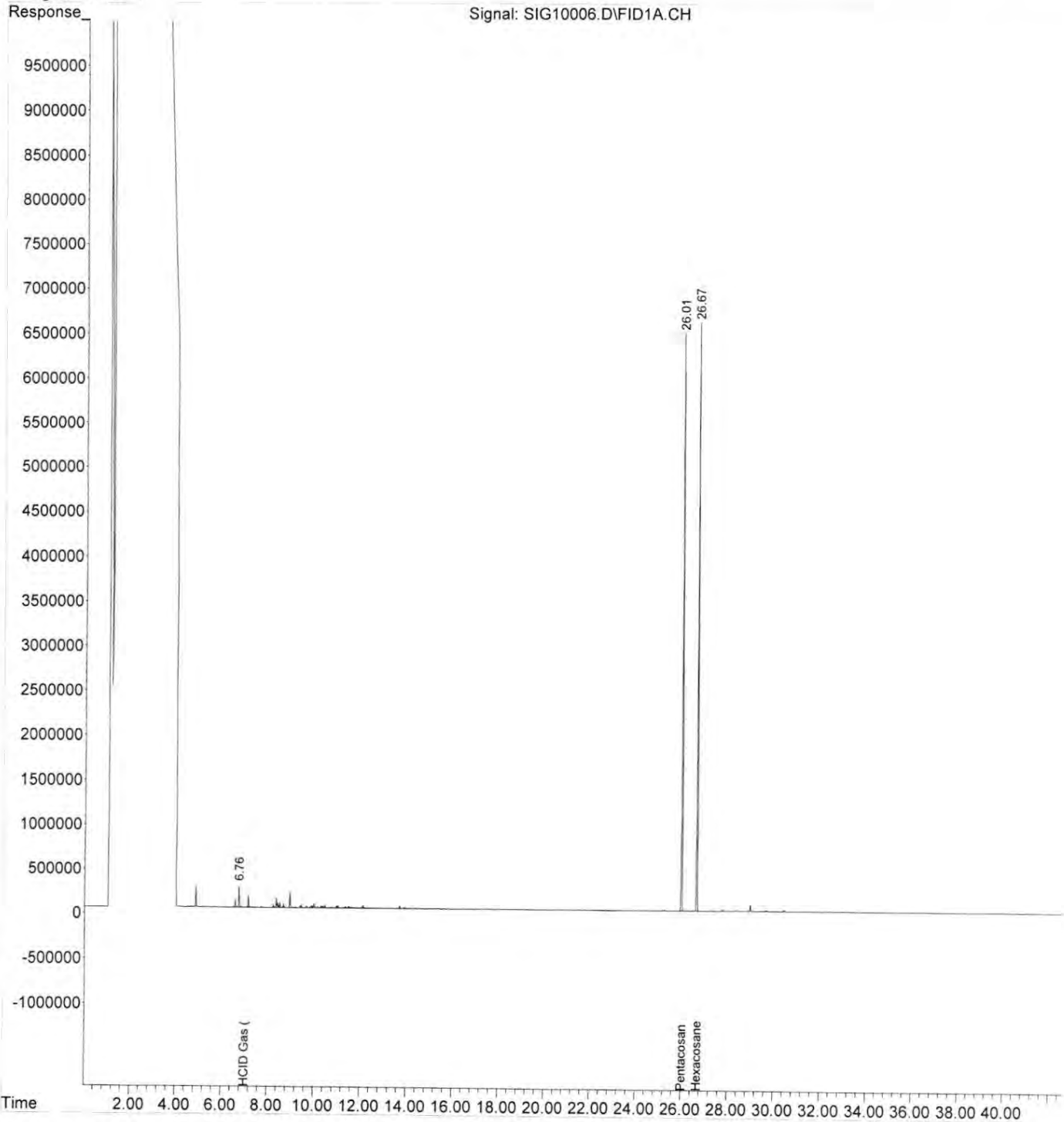
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	7.00	34278635	43.681 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10006.D Vial: 6
Acq On : 12 Jul 2024 11:35 am Operator: BAM
Sample : GAS 40 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 13:27 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10007.D Vial: 7
 Acq On : 12 Jul 2024 12:31 pm Operator: BAM
 Sample : BEG0441-BLK1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 14:48:23 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

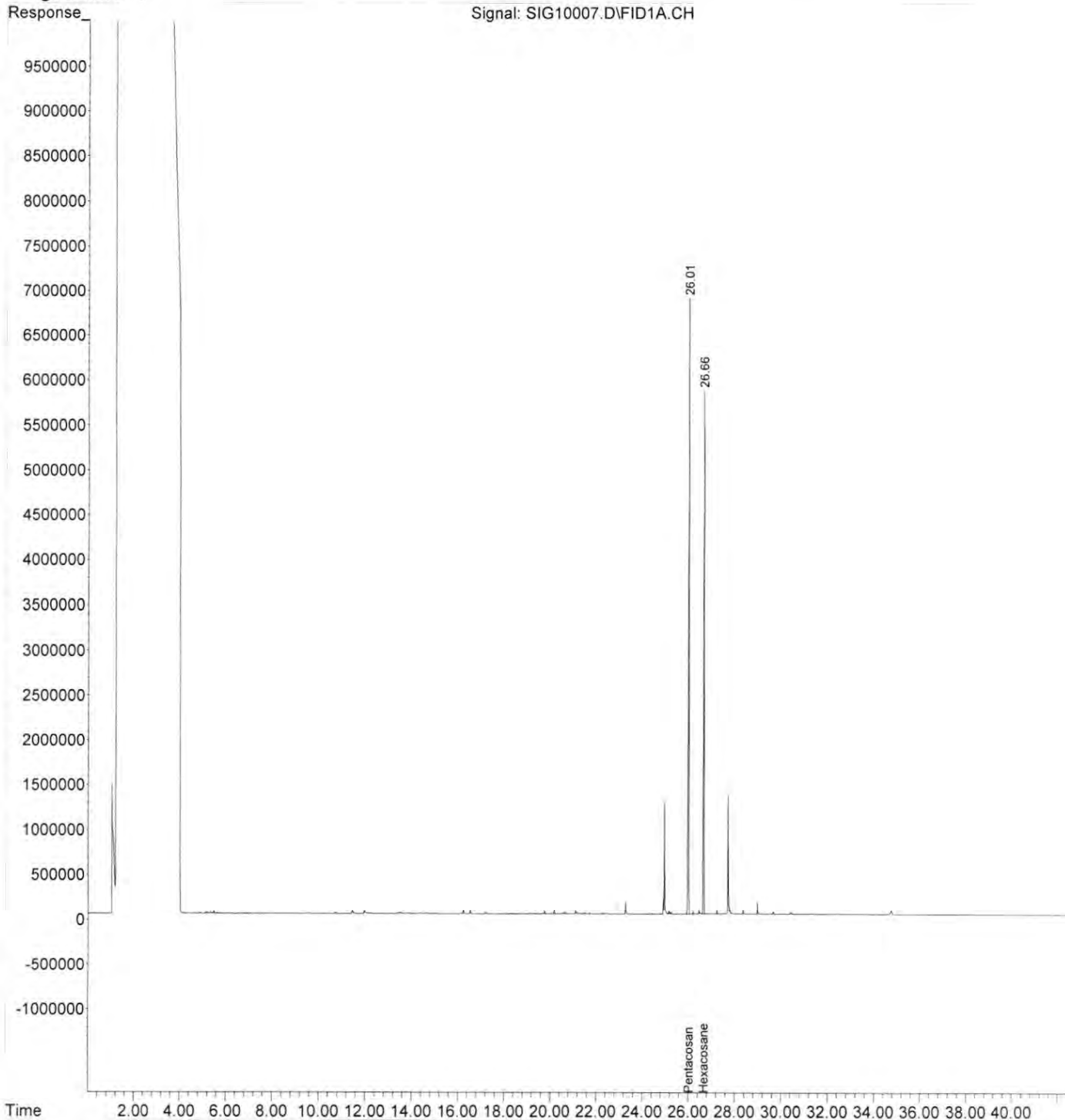
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.01	127974003	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.66	109110678	45.488 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 90.98%			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10007.D Vial: 7
Acq On : 12 Jul 2024 12:31 pm Operator: BAM
Sample : BEG0441-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 14:51 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10008.D Vial: 8
 Acq On : 12 Jul 2024 1:27 pm Operator: BAM
 Sample : BEGO441-BS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 14:48:24 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	147529521	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	118609775	42.894 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 85.79%

Target Compounds

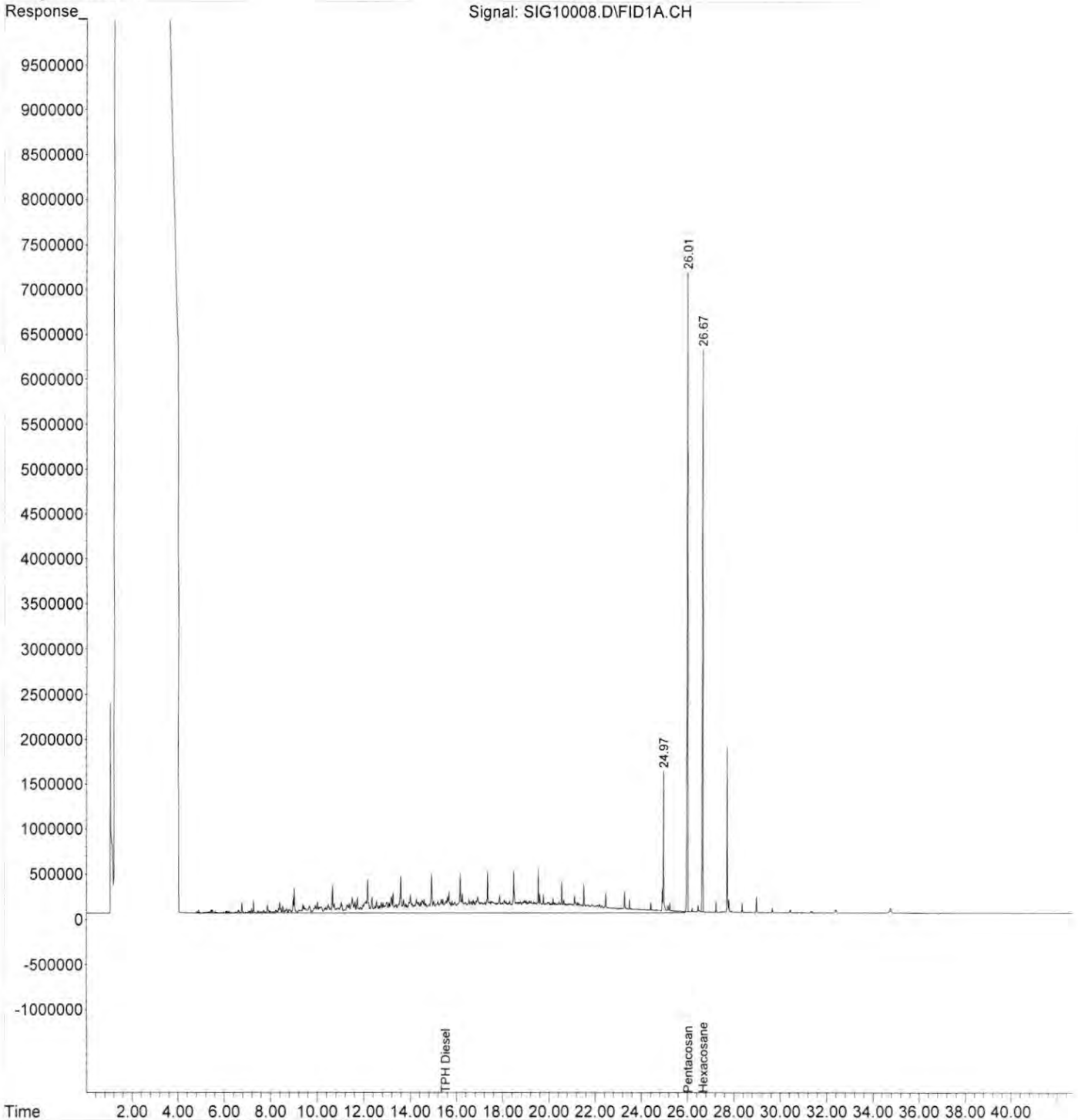
3) H TPH Diesel (C12-C14)	15.50	941493937	354.859 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10008.D Vial: 8
Acq On : 12 Jul 2024 1:27 pm Operator: BAM
Sample : BEG0441-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 15:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10009.D Vial: 9
 Acq On : 12 Jul 2024 2:24 pm Operator: BAM
 Sample : BEG0441-BSD1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 15:04:49 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

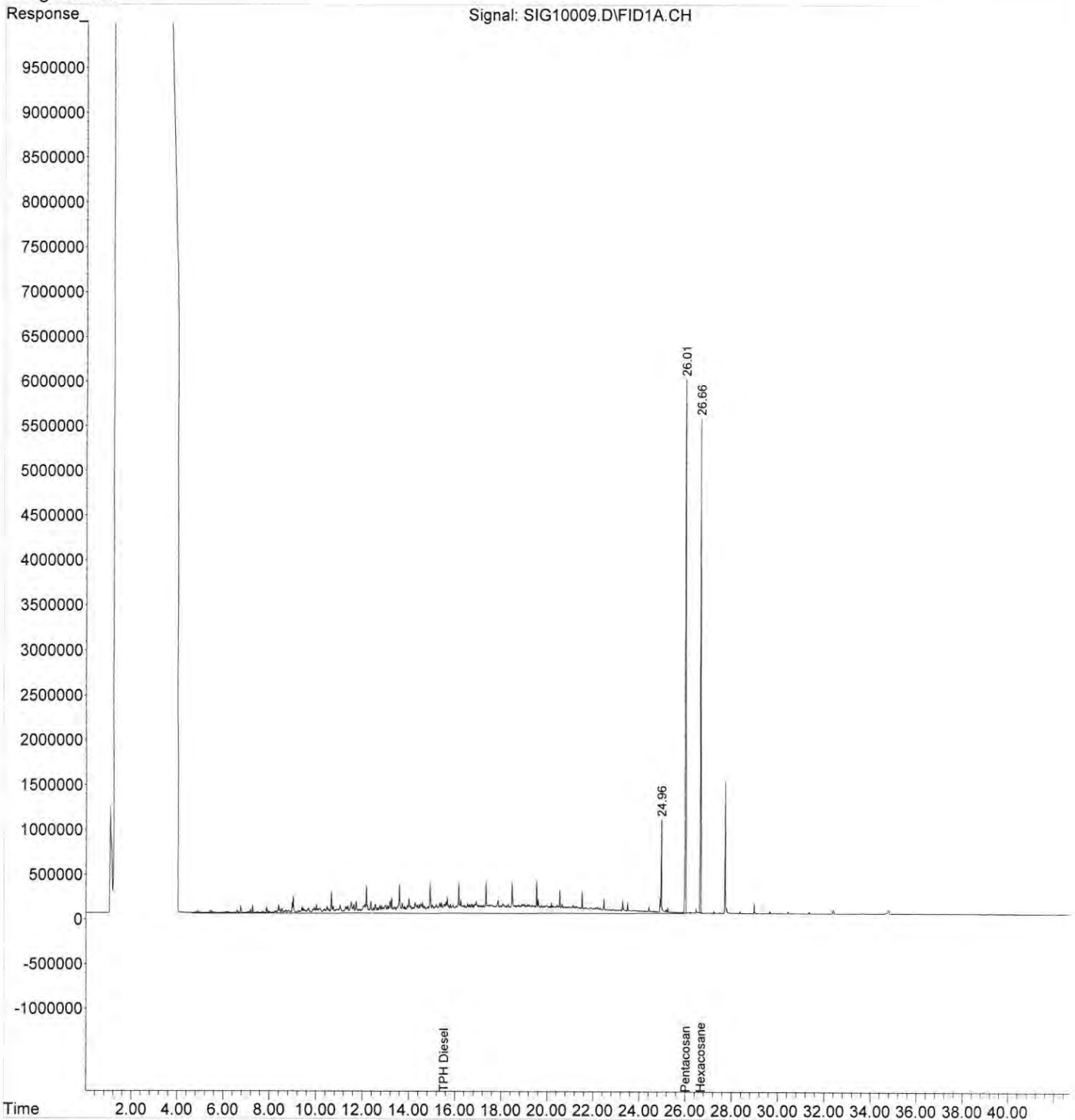
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.01	116511407	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.66	89858088	41.147 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 82.29%
Target Compounds			
3) H TPH Diesel (C12-C14)	15.50	710649574	339.160 ppm
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 : Z:\HPCHEM\1\2024DATA\071224\SIG10009.D Vial: 9
Acq On : 12 Jul 2024 2:24 pm Operator: BAM
Sample : BEG0441-BSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 12 15:10 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10010.D Vial: 10
 Acq On : 12 Jul 2024 3:20 pm Operator: BAM
 Sample : WEG0469-01 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 12 16:08:48 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	117912372	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	103646593	46.897 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 93.79%

Target Compounds

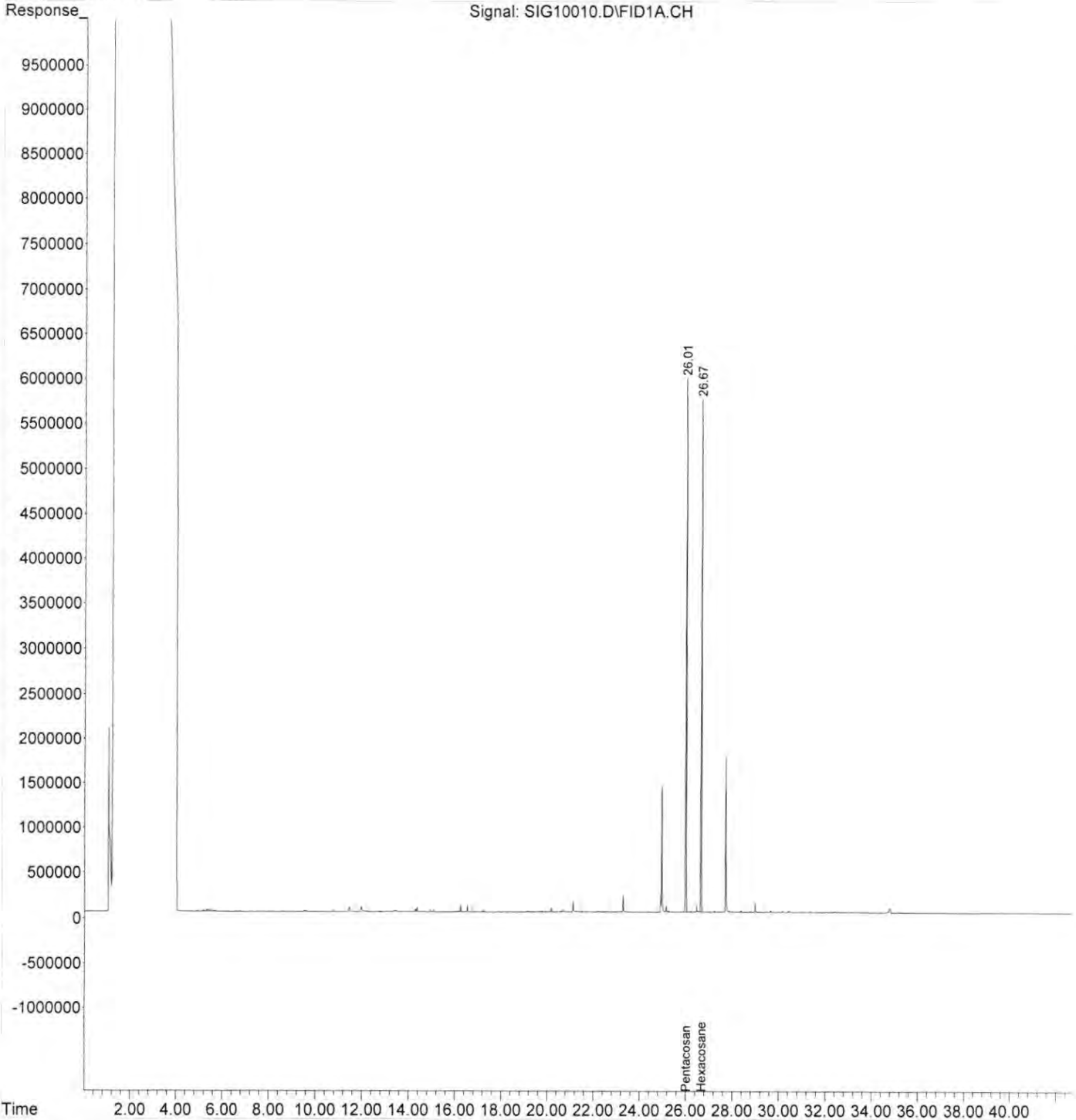
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10010.D Vial: 10
Acq On : 12 Jul 2024 3:20 pm Operator: BAM
Sample : WEGO469-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10011.D Vial: 11
 Acq On : 12 Jul 2024 4:16 pm Operator: BAM
 Sample : WEGO469-02 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:42:59 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

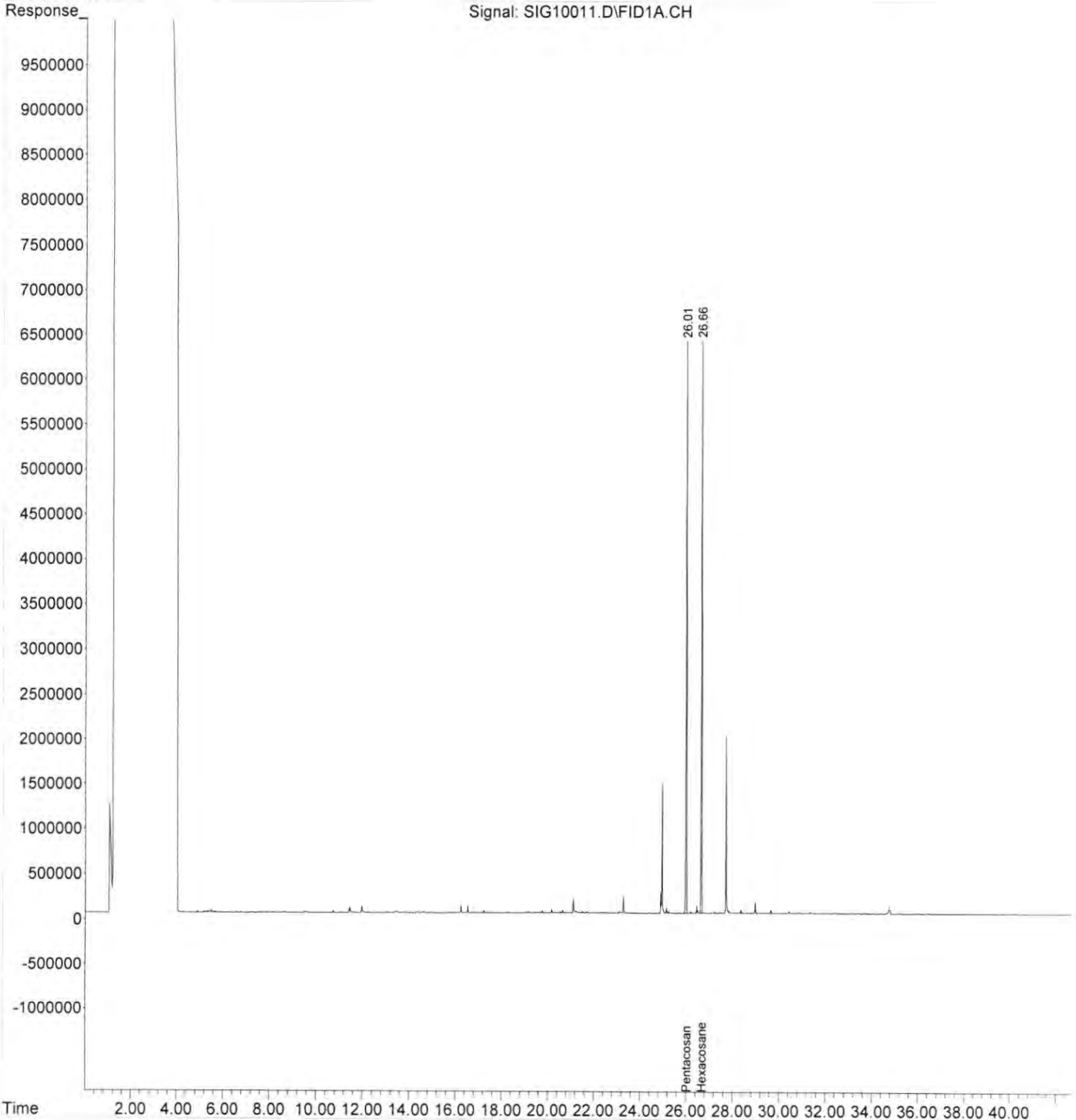
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.01	127470750	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.66	114124957	47.766 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 95.53%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10011.D Vial: 11
Acq On : 12 Jul 2024 4:16 pm Operator: BAM
Sample : WEG0469-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10012.D Vial: 12
 Acq On : 12 Jul 2024 5:13 pm Operator: BAM
 Sample : WEG0469-03 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:01 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.02	188695655	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.68	157796066	44.615 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 89.23%

Target Compounds

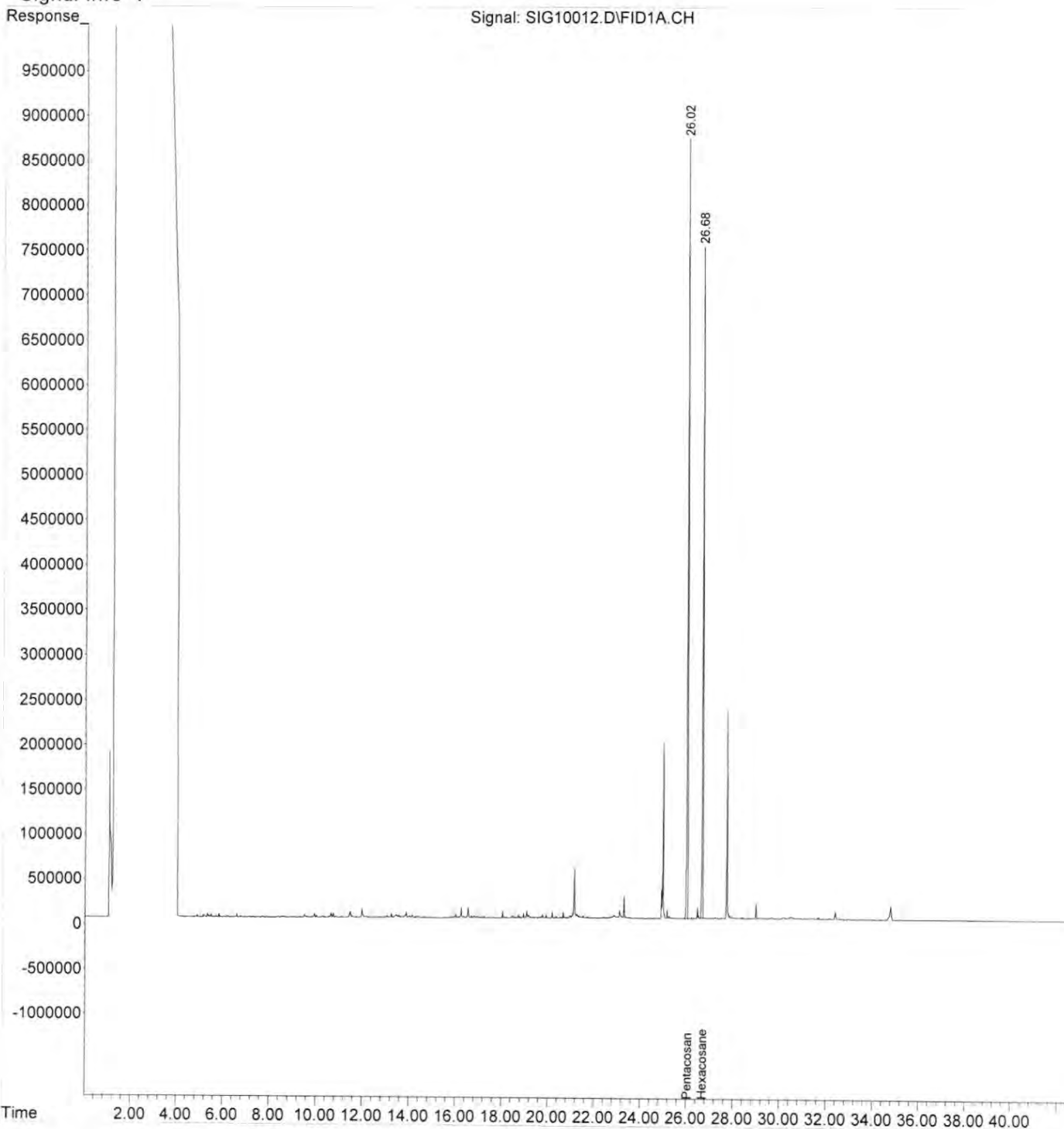
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10012.D Vial: 12
Acq On : 12 Jul 2024 5:13 pm Operator: BAM
Sample : WEG0469-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10013.D Vial: 13
 Acq On : 12 Jul 2024 6:09 pm Operator: BAM
 Sample : WEG0469-04 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:03 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	138256918	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.63	7769820	2.998 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 6.00%#			

Target Compounds

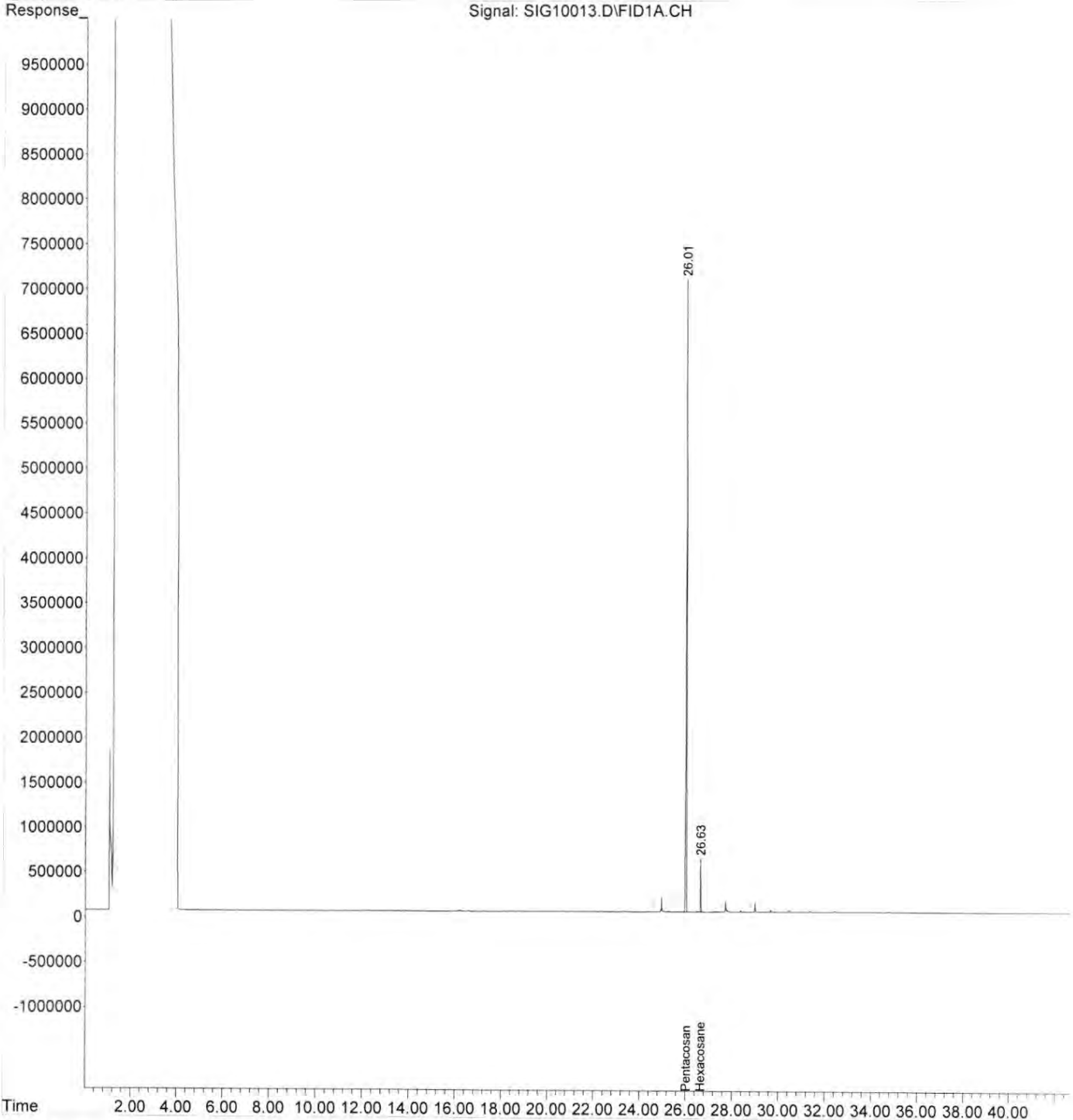
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10013.D Vial: 13
Acq On : 12 Jul 2024 6:09 pm Operator: BAM
Sample : WEGO469-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:06 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10014.D Vial: 14
 Acq On : 12 Jul 2024 7:05 pm Operator: BAM
 Sample : BEG0441-MS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:04 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.00	76180239	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.65	53338633	37.355 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 74.71%

Target Compounds

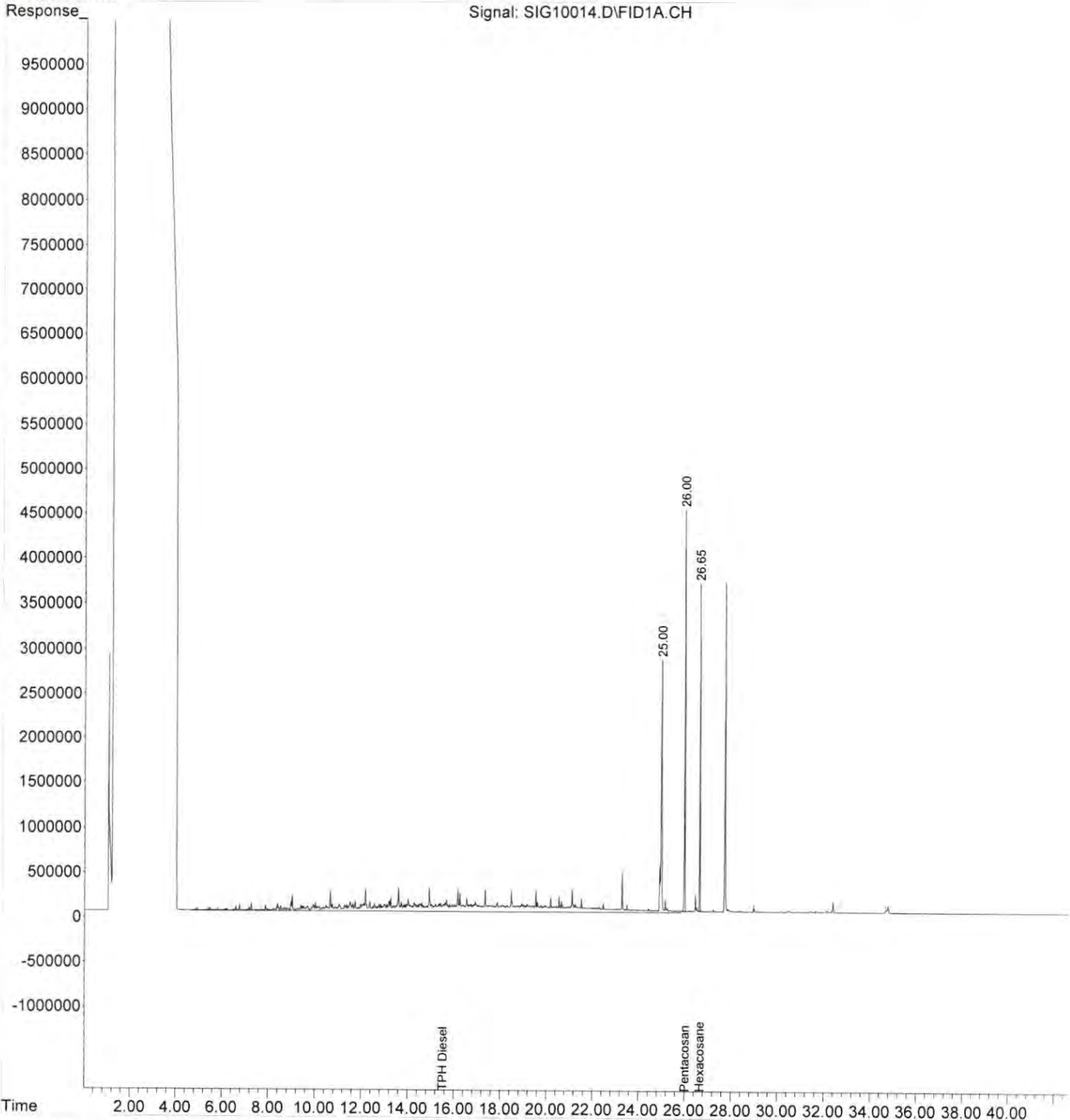
3) H TPH Diesel (C12-C14)	15.50	649347493	473.971 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10014.D Vial: 14
Acq On : 12 Jul 2024 7:05 pm Operator: BAM
Sample : BEG0441-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:49 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10015.D Vial: 15
 Acq On : 12 Jul 2024 8:00 pm Operator: BAM
 Sample : BEG0441-MSD1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:06 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.02	149999499	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	125262926	44.554 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 89.11%			

Target Compounds

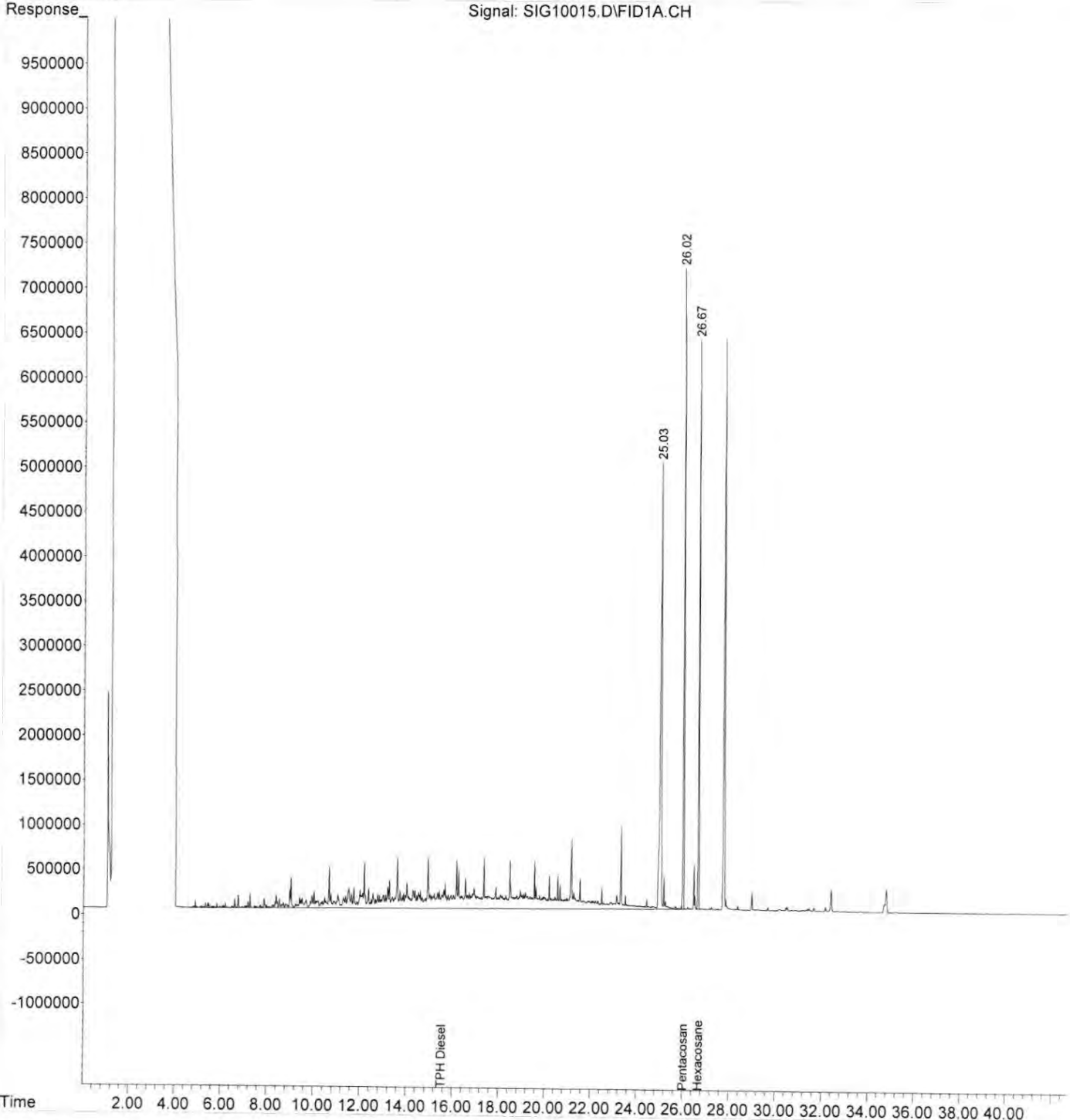
3) H TPH Diesel (C12-C14)	15.50	1271689939	471.421 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10015.D Vial: 15
Acq On : 12 Jul 2024 8:00 pm Operator: BAM
Sample : BEG0441-MSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:49 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10016.D Vial: 16
 Acq On : 12 Jul 2024 8:56 pm Operator: BAM
 Sample : WEG0469-05 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:07 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	114831209	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	98684385	45.850 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 91.70%

Target Compounds

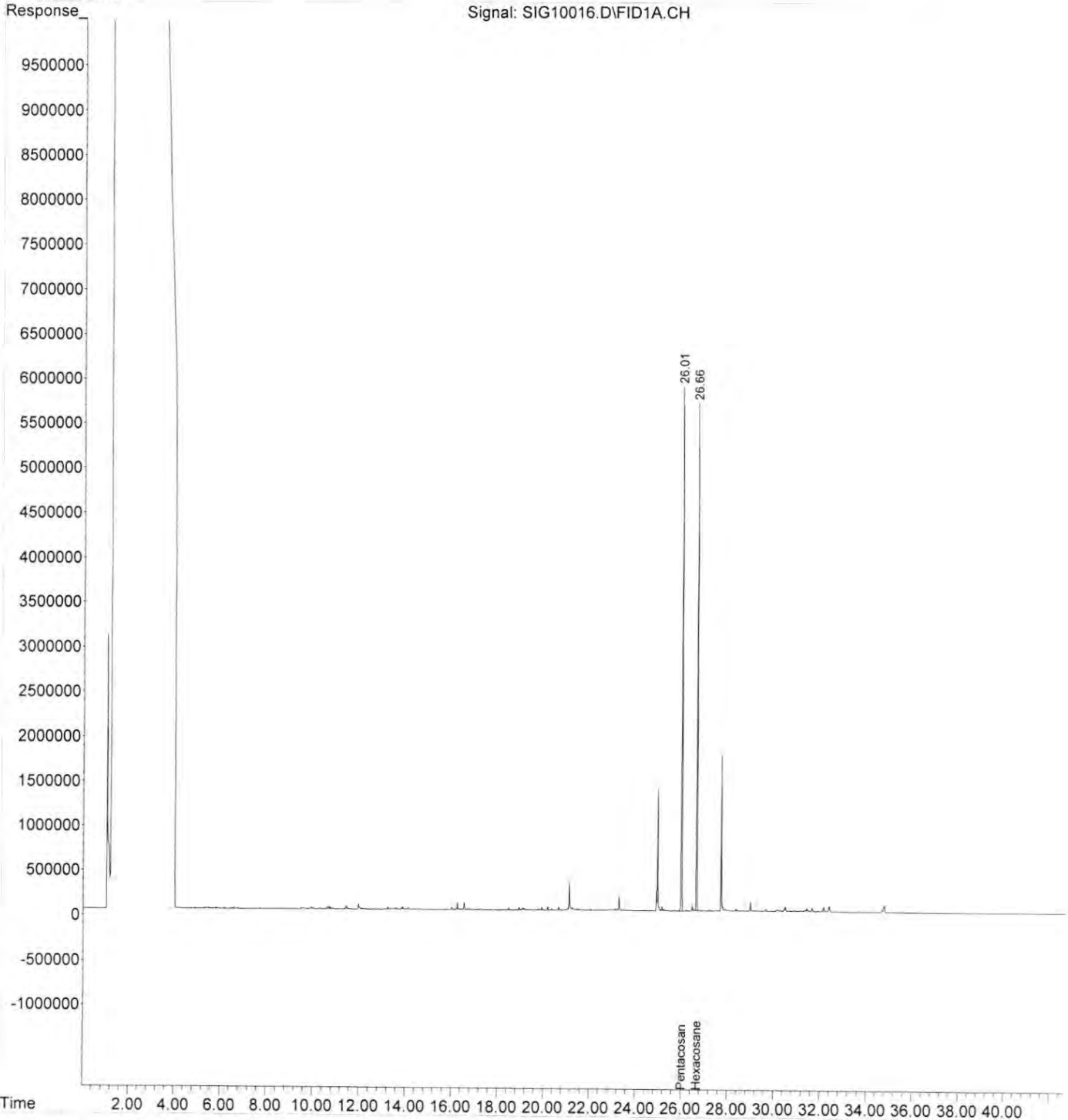
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10016.D Vial: 16
Acq On : 12 Jul 2024 8:56 pm Operator: BAM
Sample : WEG0469-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:06 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10017.D Vial: 17
 Acq On : 12 Jul 2024 9:51 pm Operator: BAM
 Sample : E-1 DUP Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:09 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

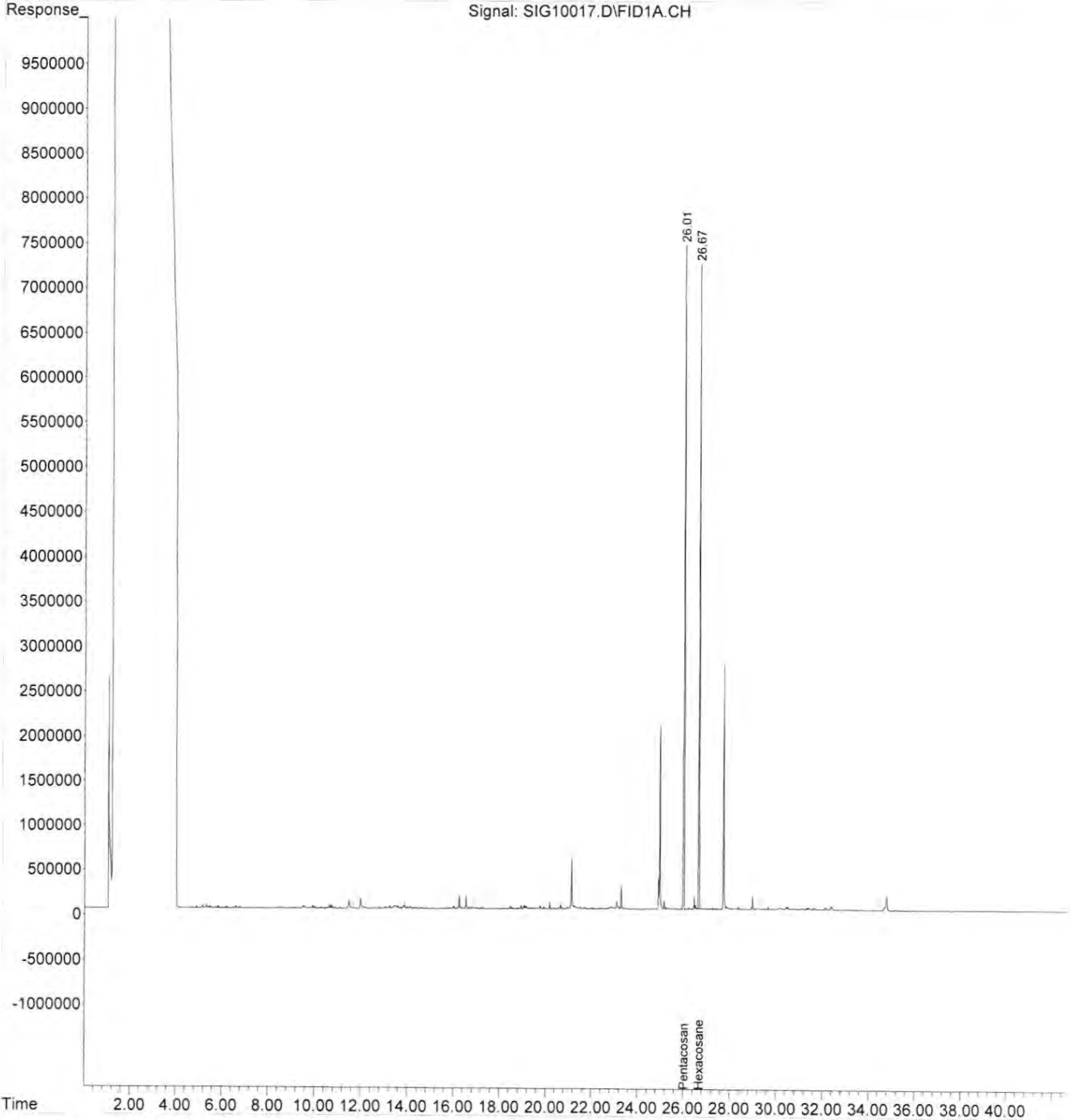
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.01	156116503	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.67	130345726	44.545 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 89.09%			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10017.D Vial: 17
Acq On : 12 Jul 2024 9:51 pm Operator: BAM
Sample : E-1 DUP Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:06 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10018.D Vial: 1
 Acq On : 12 Jul 2024 10:46 pm Operator: BAM
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:10 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	137212197	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	128404492	49.927 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.85%

Target Compounds

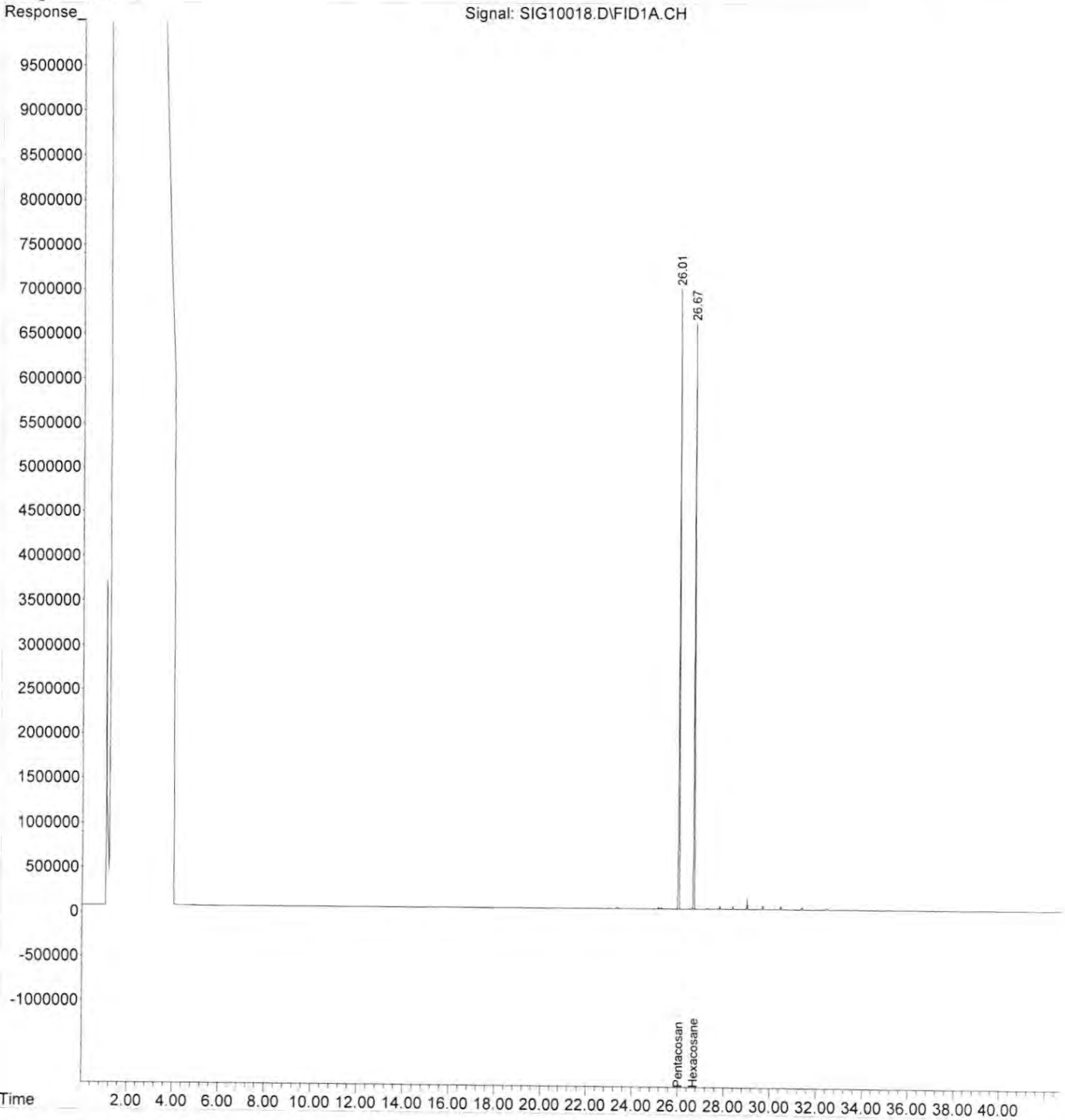
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10018.D Vial: 1
Acq On : 12 Jul 2024 10:46 pm Operator: BAM
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 9:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10019.D Vial: 2
 Acq On : 12 Jul 2024 11:41 pm Operator: BAM
 Sample : ICV 500PPM Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:43 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

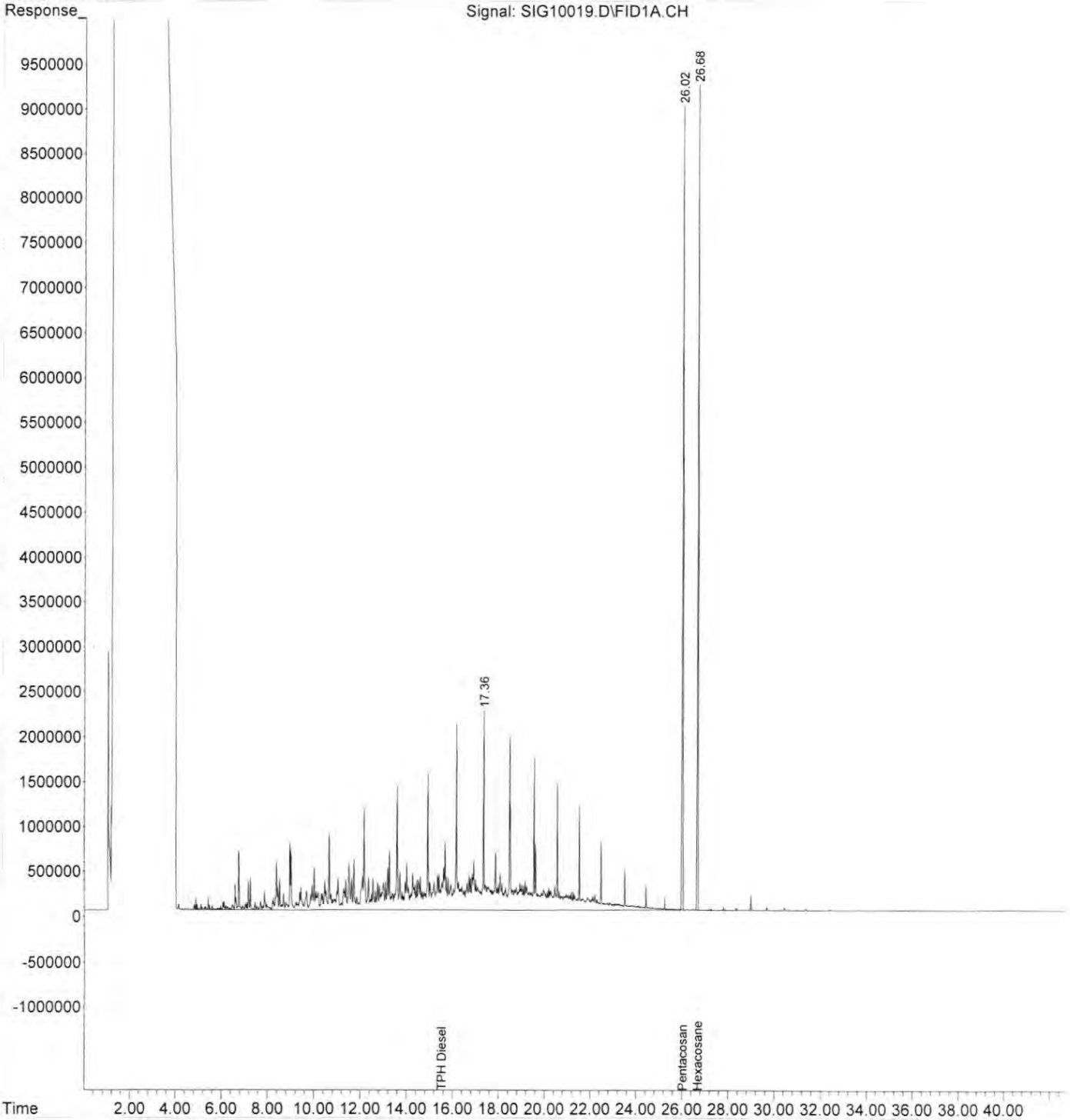
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.02	207902060	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.68	191321156	49.097 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 98.19%			
Target Compounds			
3) H TPH Diesel (C12-C14)	15.50	1954635077	522.786 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10019.D Vial: 2
Acq On : 12 Jul 2024 11:41 pm Operator: BAM
Sample : ICV 500PPM Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 9:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10020.D Vial: 3
 Acq On : 13 Jul 2024 12:36 am Operator: BAM
 Sample : DX 500PPM CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:45 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

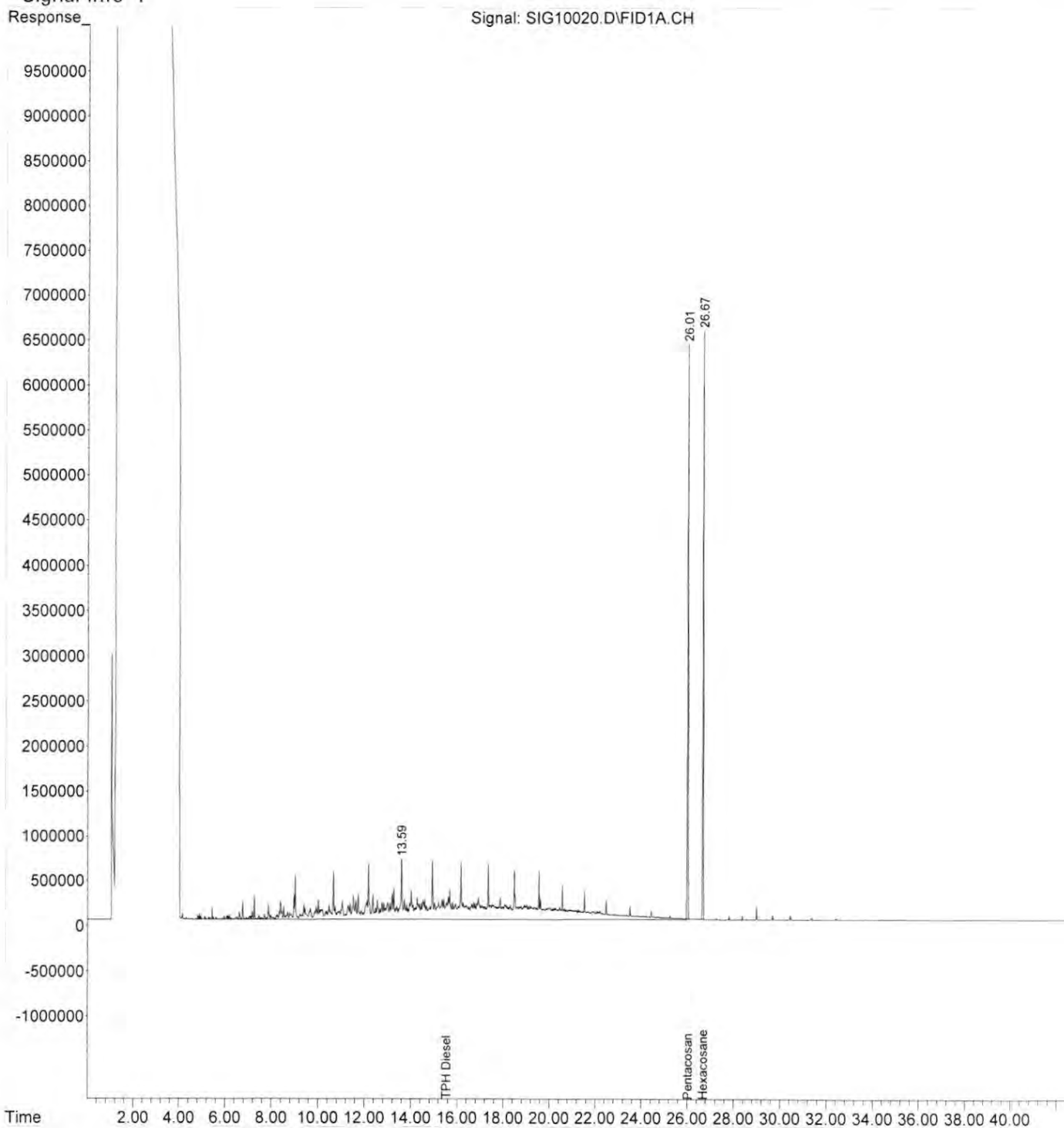
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.01	129991603	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.67	121846944	50.009 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 100.02%			
Target Compounds			
3) H TPH Diesel (C12-C14)	15.50	1168434632	499.812 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10020.D Vial: 3
Acq On : 13 Jul 2024 12:36 am Operator: BAM
Sample : DX 500PPM CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 9:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10021.D Vial: 4
 Acq On : 13 Jul 2024 1:32 am Operator: BAM
 Sample : LO 1000 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:46 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	0.00	0	N.D. ppm
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System Monitoring Compounds

2) S Hexacosane	0.00	0	N.D. ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 0.00%#

Target Compounds

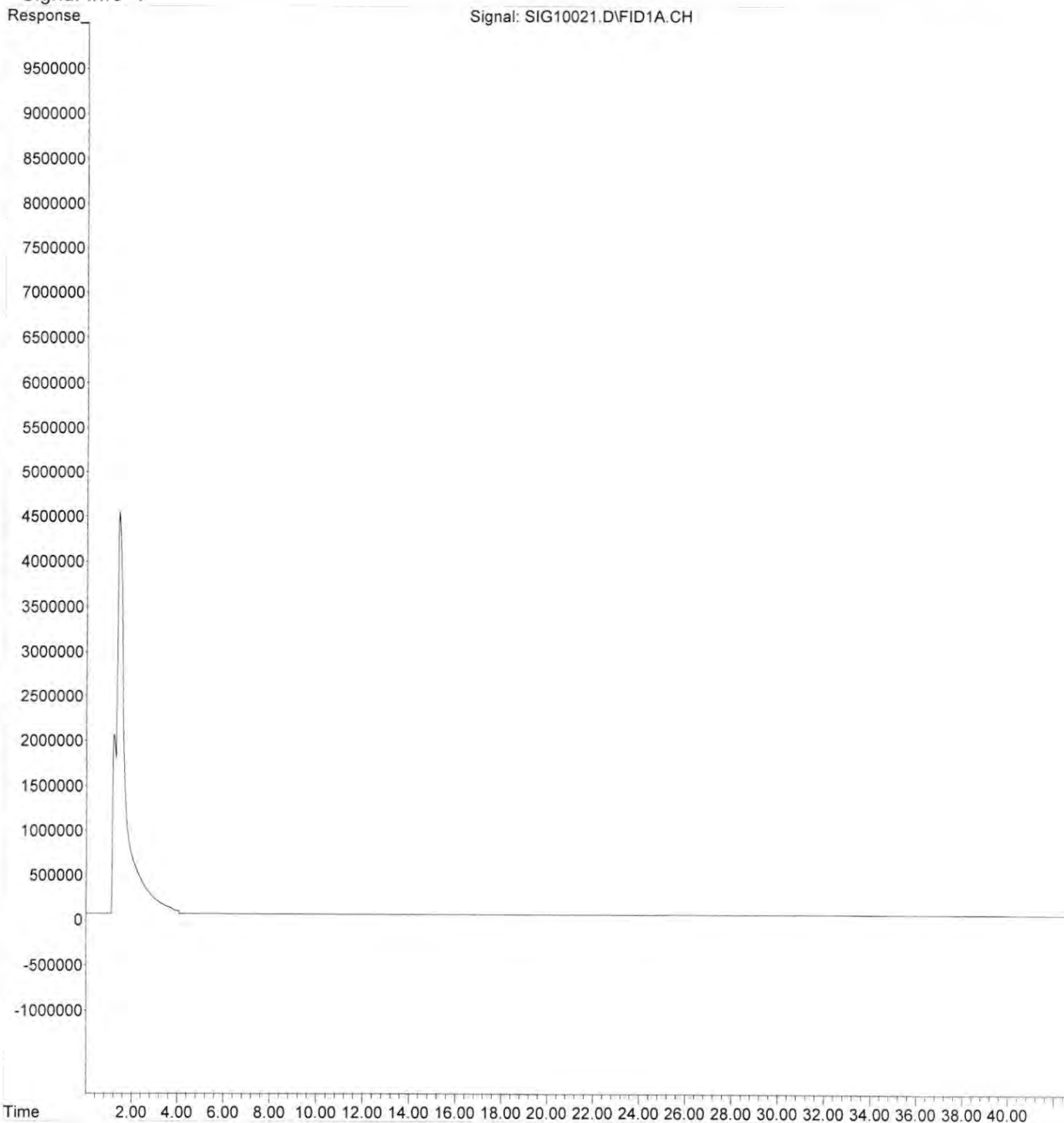
3) H TPH Diesel (C12-C14)	15.50	8444813	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	29.00	14292177	N.D. ppm
5) H Mineral Oil	20.00	5714971	N.D. ppm
6) h HCID Gas (C7-C12)	7.00	2633210	N.D. ppm
7) h HCID Diesel (C12-C14)	15.50	137227414	N.D. ppm
8) h HCID Oil (>C14)	27.80	9522658	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10021.D Vial: 4
Acq On : 13 Jul 2024 1:32 am Operator: BAM
Sample : LO 1000 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:46 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10022.D Vial: 5
 Acq On : 13 Jul 2024 2:26 am Operator: BAM
 Sample : MO 1000 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:48 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.02	168533471	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	156151299	49.432 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 98.86%

Target Compounds

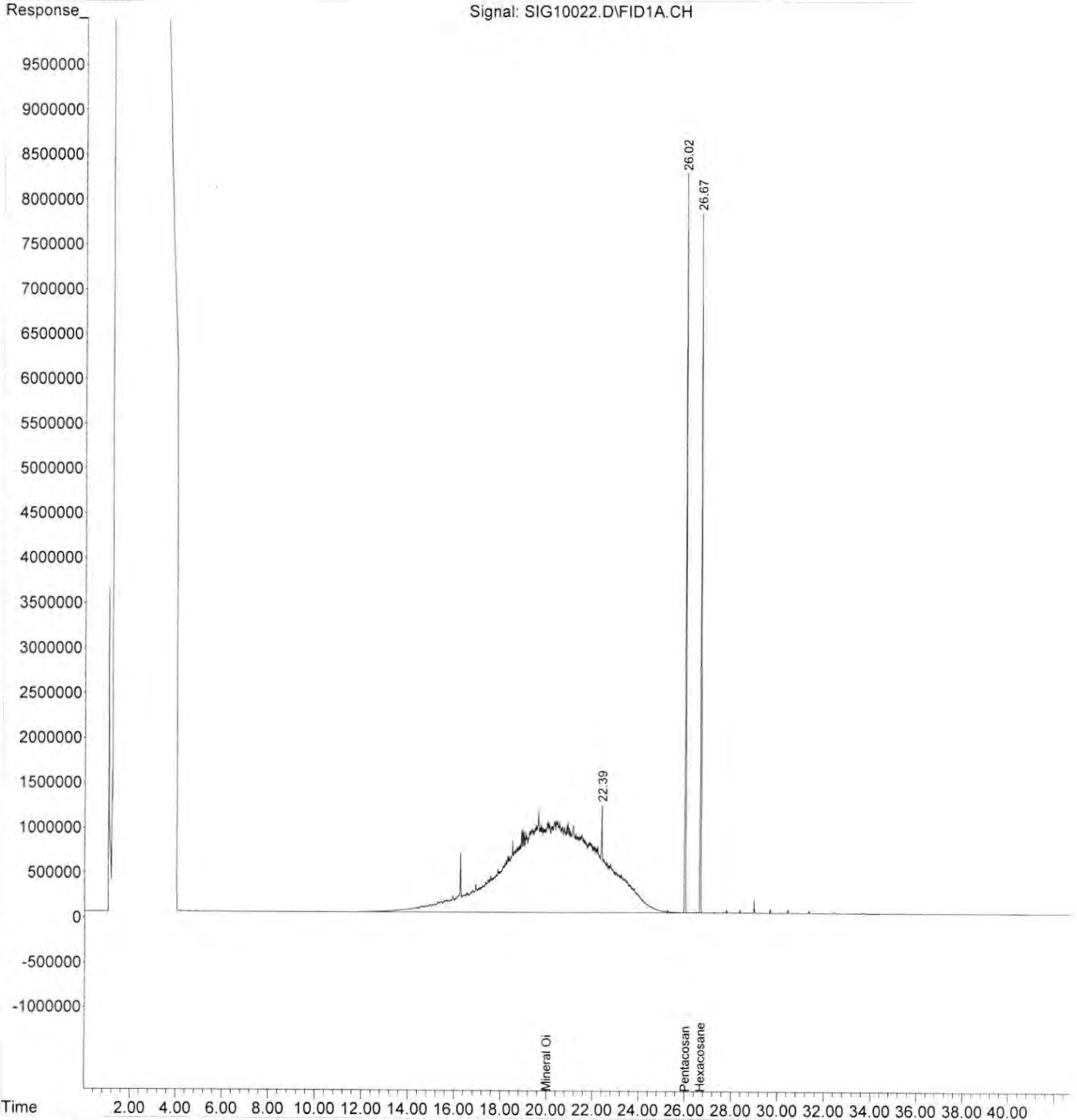
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	20.00	3039615891	969.859 ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10022.D Vial: 5
Acq On : 13 Jul 2024 2:26 am Operator: BAM
Sample : MO 1000 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 9:06 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10023.D Vial: 6
 Acq On : 13 Jul 2024 3:22 am Operator: BAM
 Sample : GAS 40 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:49 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	133521979	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	125670303	50.215 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 100.43%

Target Compounds

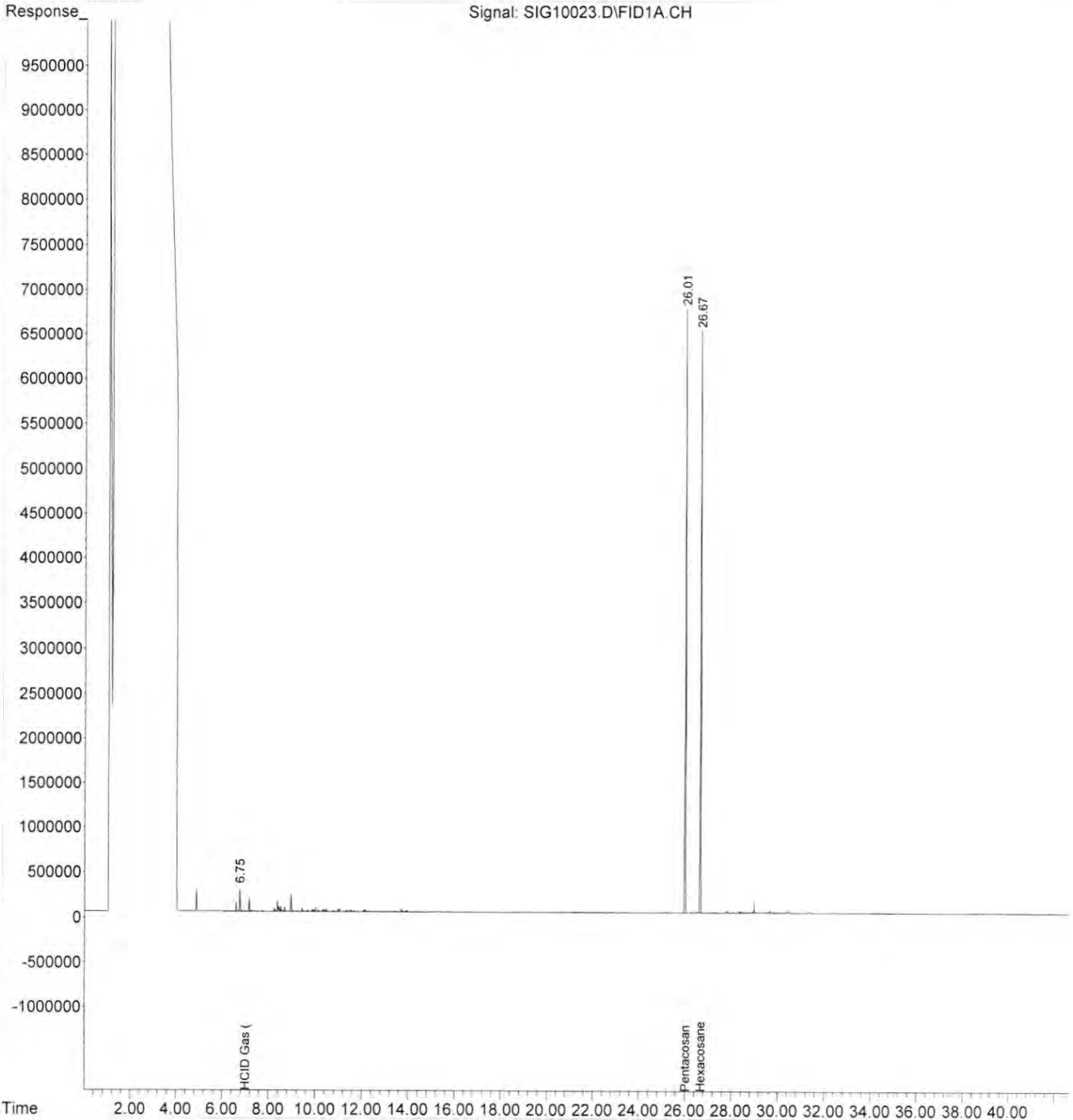
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	7.00	35761233	43.576 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10023.D Vial: 6
Acq On : 13 Jul 2024 3:22 am Operator: BAM
Sample : GAS 40 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 9:06 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10024.D Vial: 18
 Acq On : 13 Jul 2024 4:16 am Operator: BAM
 Sample : WEG0469-07 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:51 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	151523701	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	120883542	42.563 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 85.13%			

Target Compounds

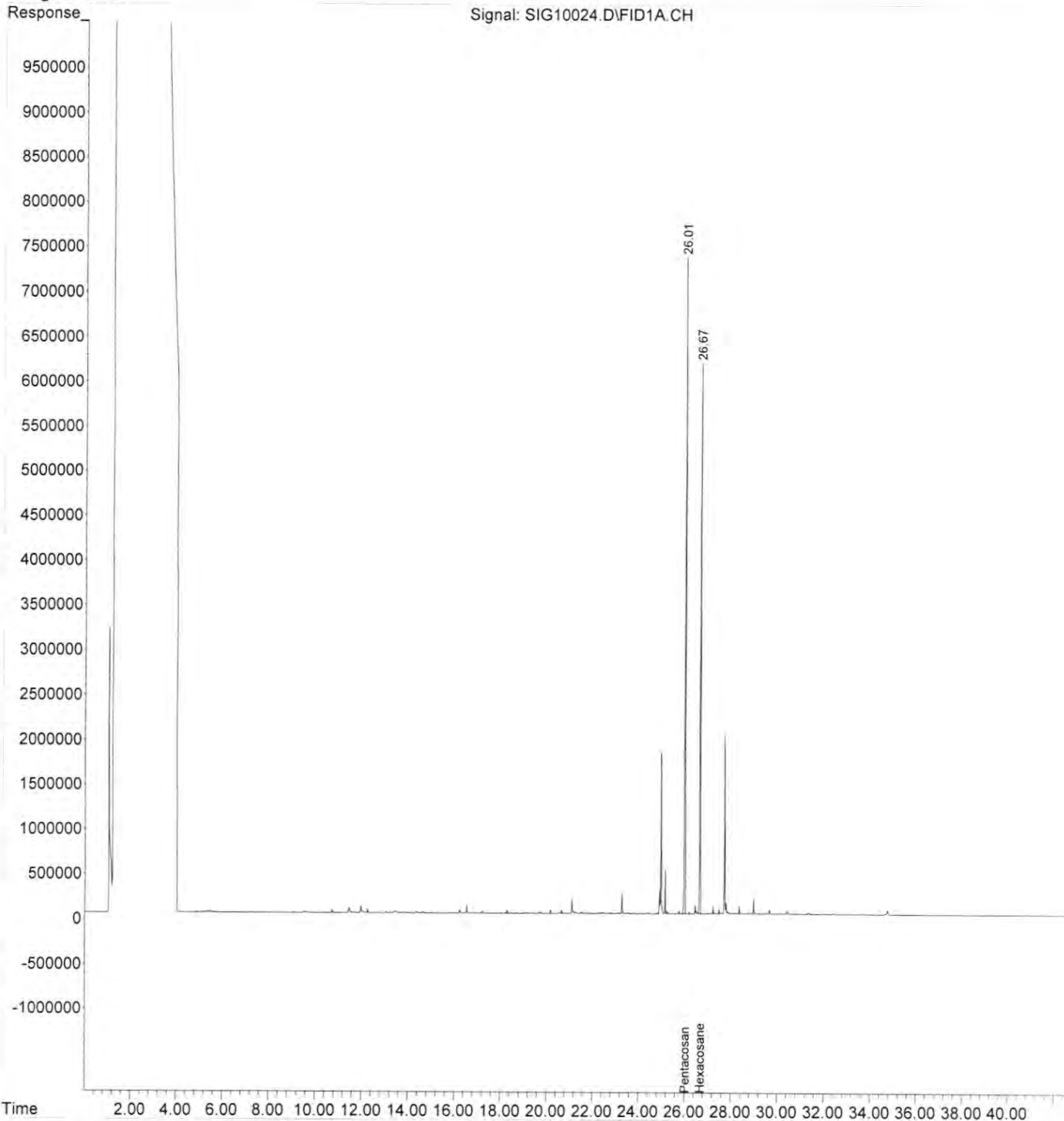
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10024.D Vial: 18
Acq On : 13 Jul 2024 4:16 am Operator: BAM
Sample : WEG0469-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:07 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10025.D Vial: 19
 Acq On : 13 Jul 2024 5:12 am Operator: BAM
 Sample : WEG0469-08 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:53 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	139650869	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	121848668	46.551 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 93.10%

Target Compounds

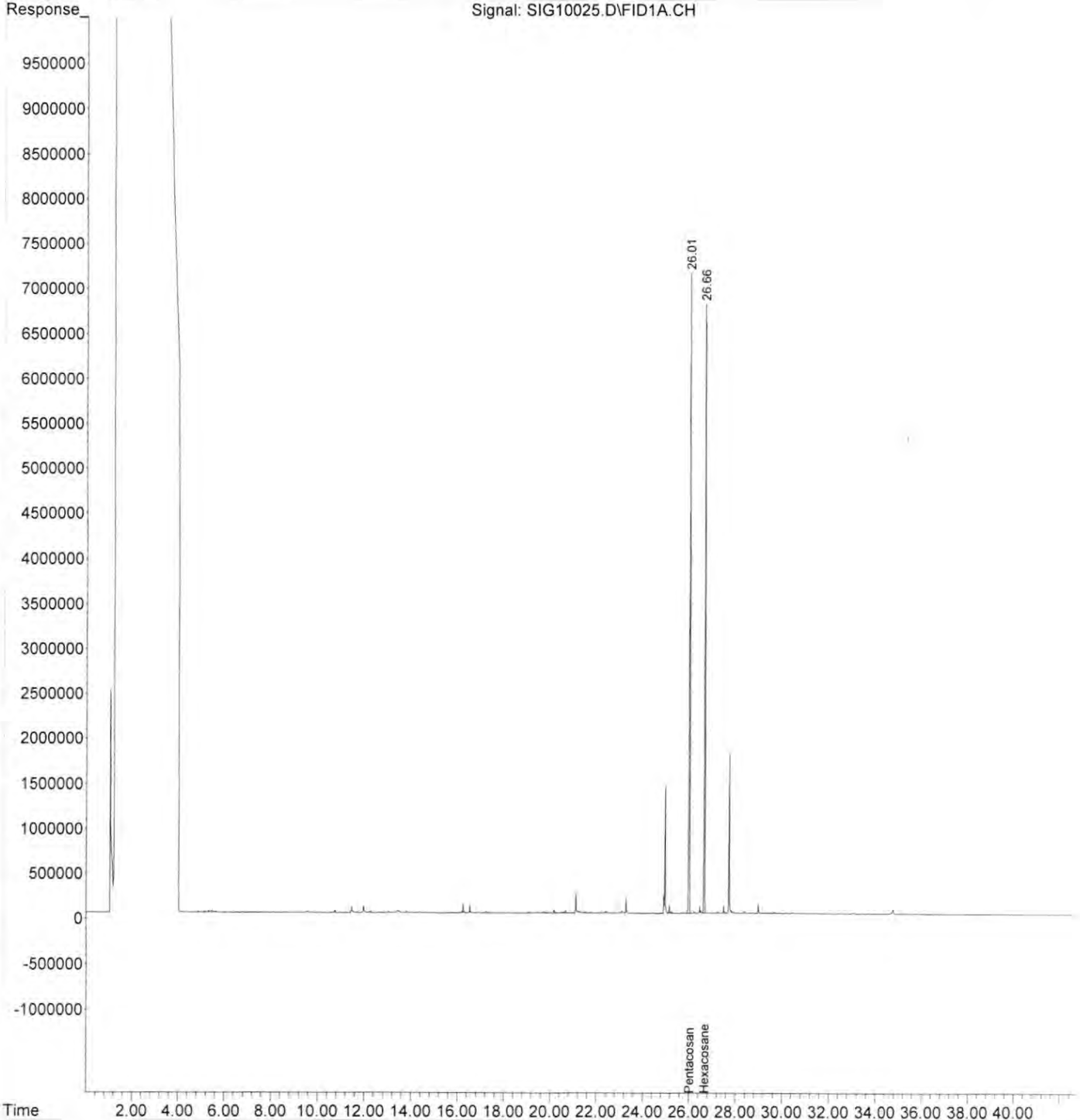
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10025.D Vial: 19
Acq On : 13 Jul 2024 5:12 am Operator: BAM
Sample : WEG0469-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:08 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10026.D Vial: 20
 Acq On : 13 Jul 2024 6:07 am Operator: BAM
 Sample : WEG0469-09 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:54 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.00	133866967	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	117903564	46.990 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 93.98%

Target Compounds

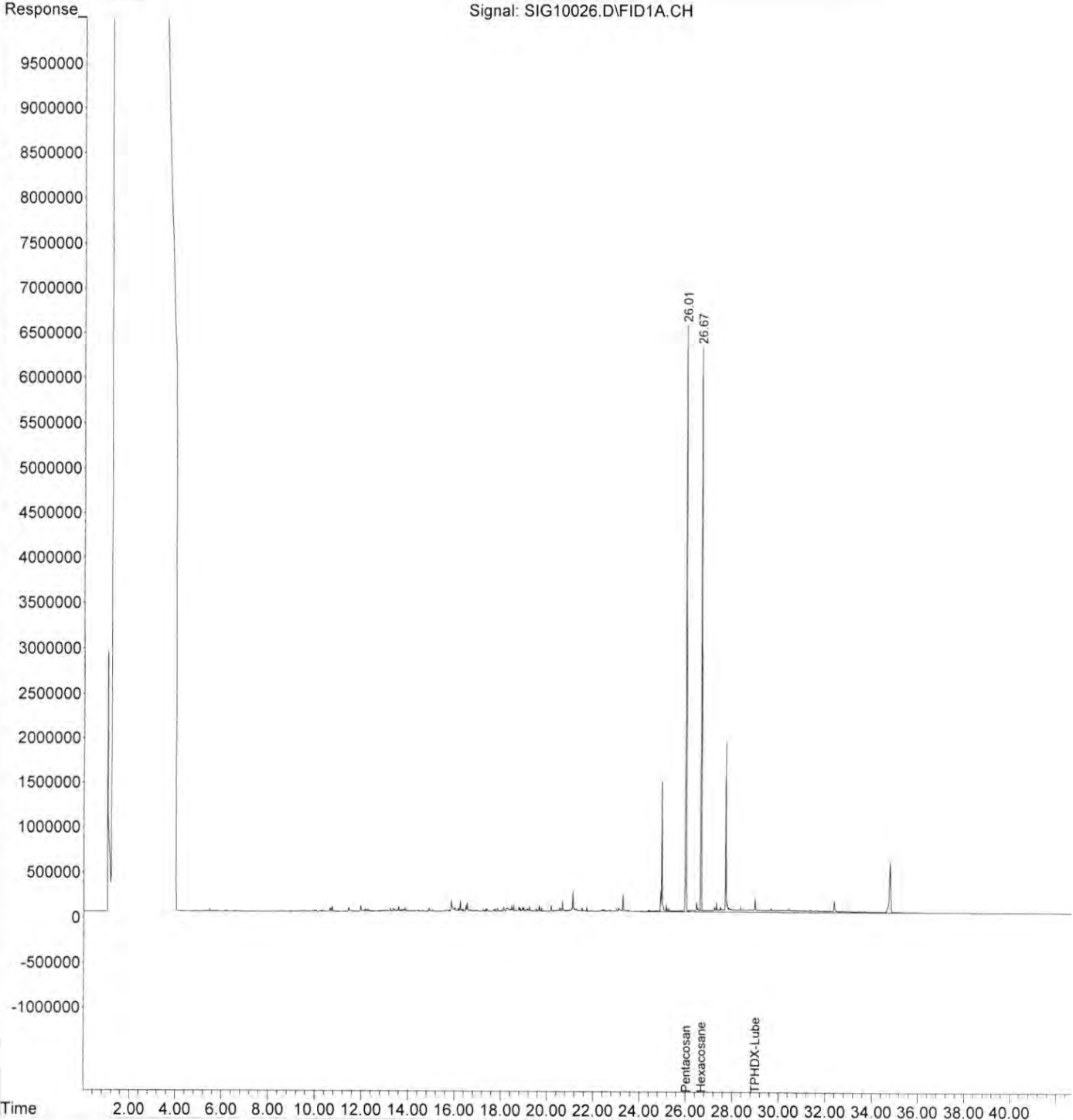
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	29.00	201469161	137.016 ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10026.D Vial: 20
Acq On : 13 Jul 2024 6:07 am Operator: BAM
Sample : WEG0469-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 13:54 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10027.D Vial: 21
 Acq On : 13 Jul 2024 7:02 am Operator: BAM
 Sample : WEG0469-10 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:56 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

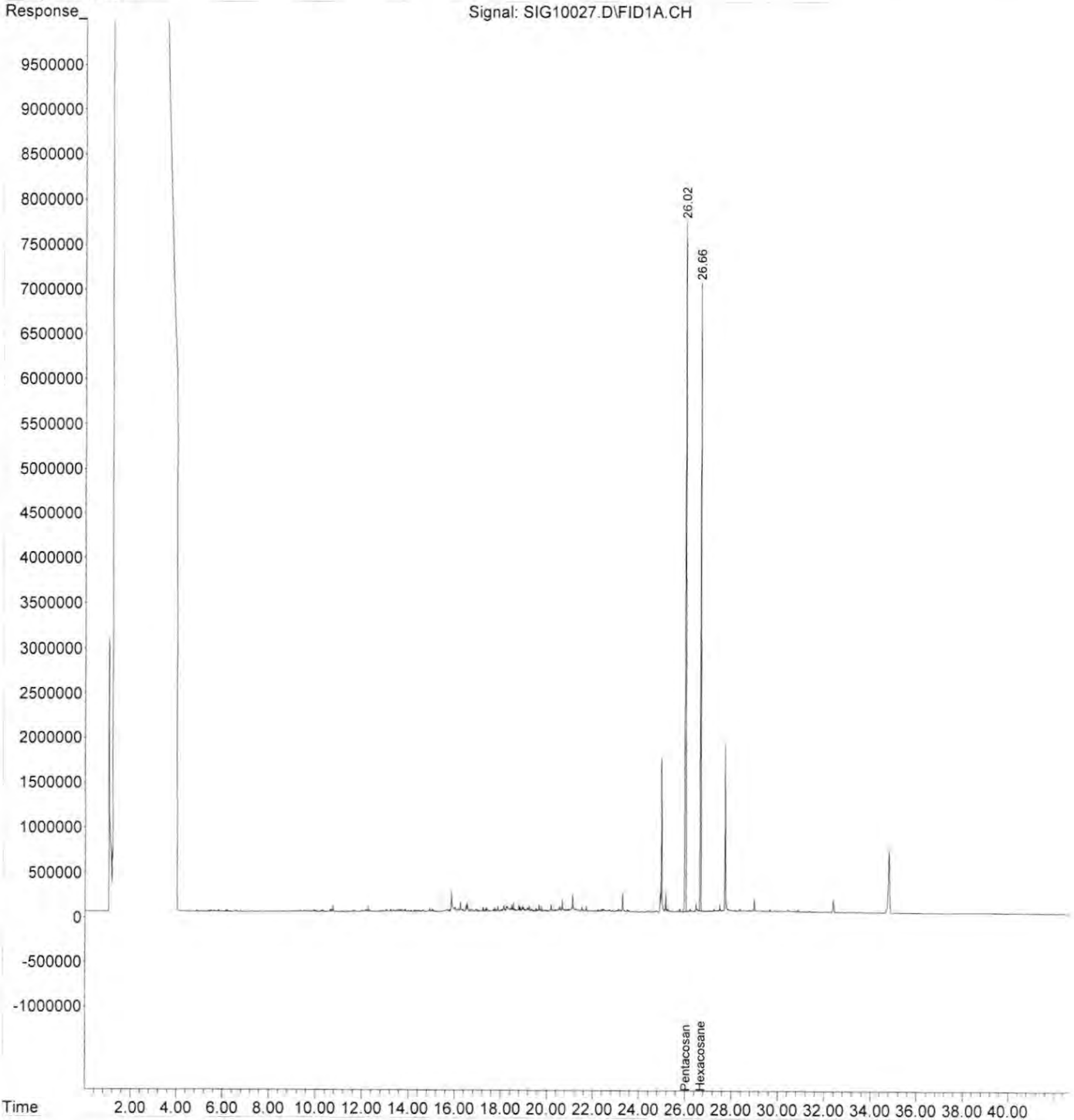
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.02	184153562	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.66	123063786	35.653 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 71.31%			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10027.D Vial: 21
Acq On : 13 Jul 2024 7:02 am Operator: BAM
Sample : WEG0469-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:08 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10028.D Vial: 22
 Acq On : 13 Jul 2024 7:57 am Operator: BAM
 Sample : WEG0469-11 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:57 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

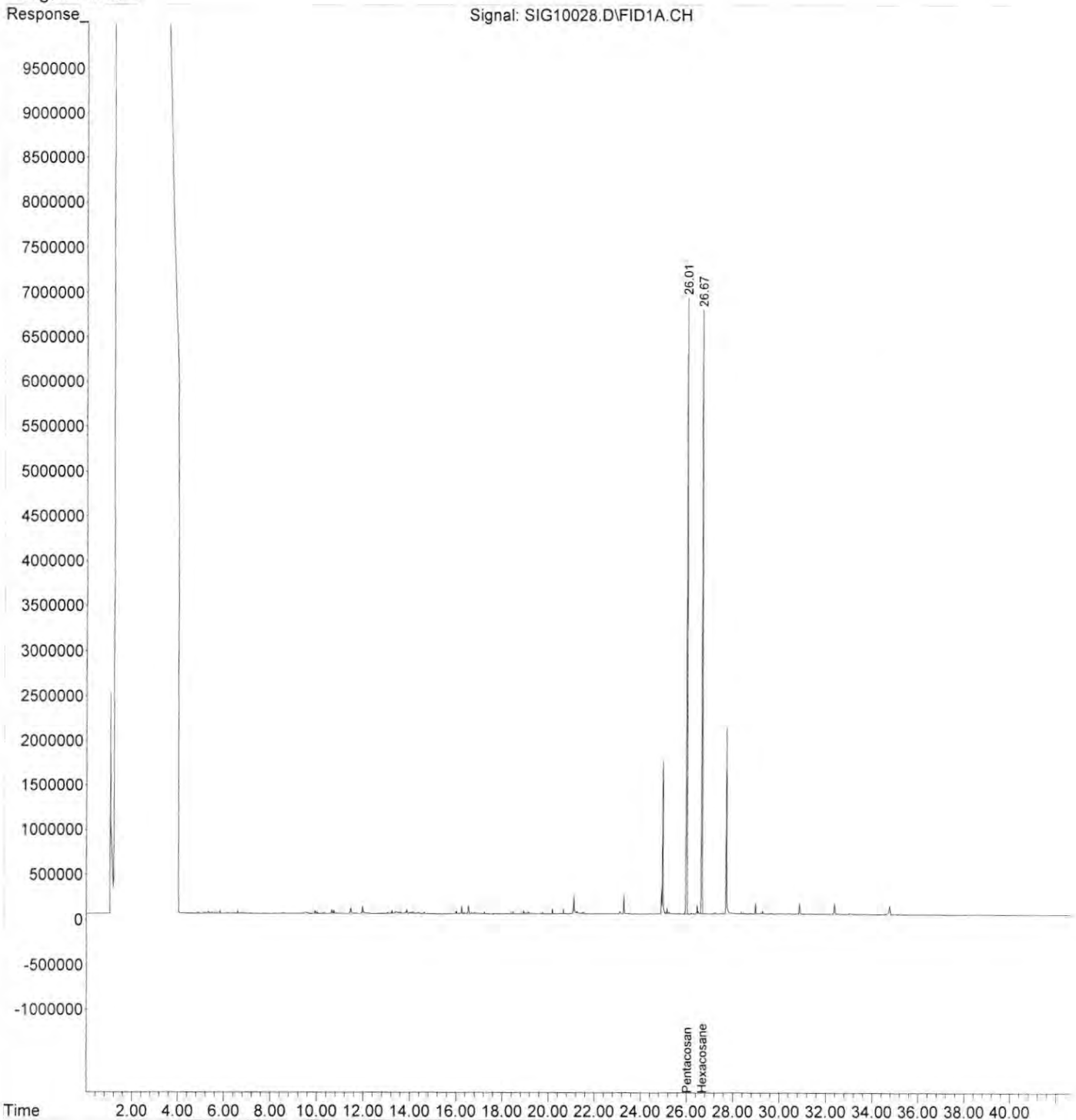
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.01	144250099	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.66	128197367	47.415 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 94.83%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10028.D Vial: 22
Acq On : 13 Jul 2024 7:57 am Operator: BAM
Sample : WEG0469-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 14:08 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10029.D Vial: 23
 Acq On : 13 Jul 2024 8:52 am Operator: BAM
 Sample : WEG0469-12 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:43:59 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.00	110780217	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	101399767	48.834 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 97.67%

Target Compounds

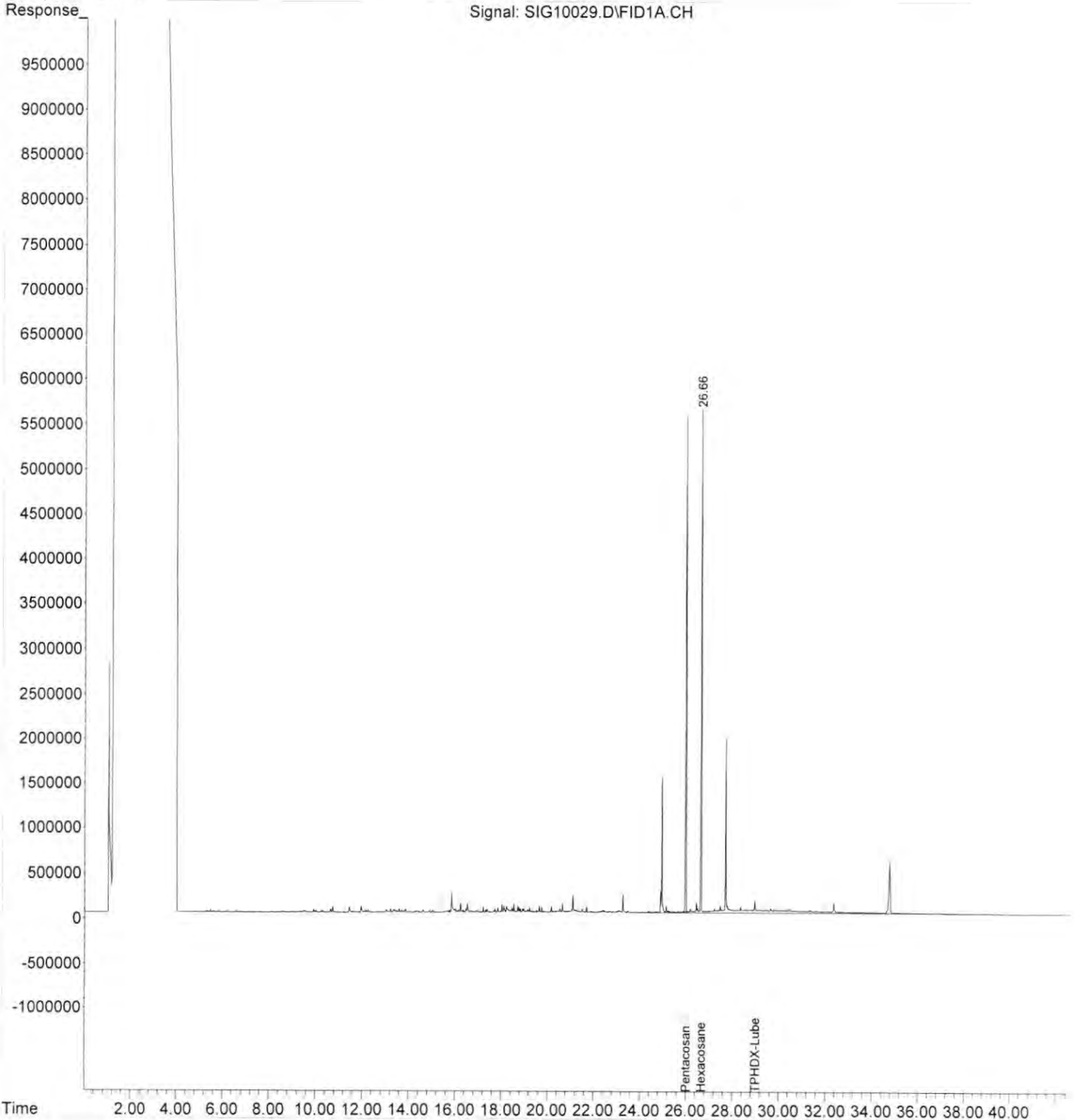
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	29.00	220669059	181.350 ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10029.D Vial: 23
Acq On : 13 Jul 2024 8:52 am Operator: BAM
Sample : WEG0469-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 13:52 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10031.D Vial: 1
 Acq On : 13 Jul 2024 10:42 am Operator: BAM
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:44:02 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	145503324	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	136211389	49.945 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.89%

Target Compounds

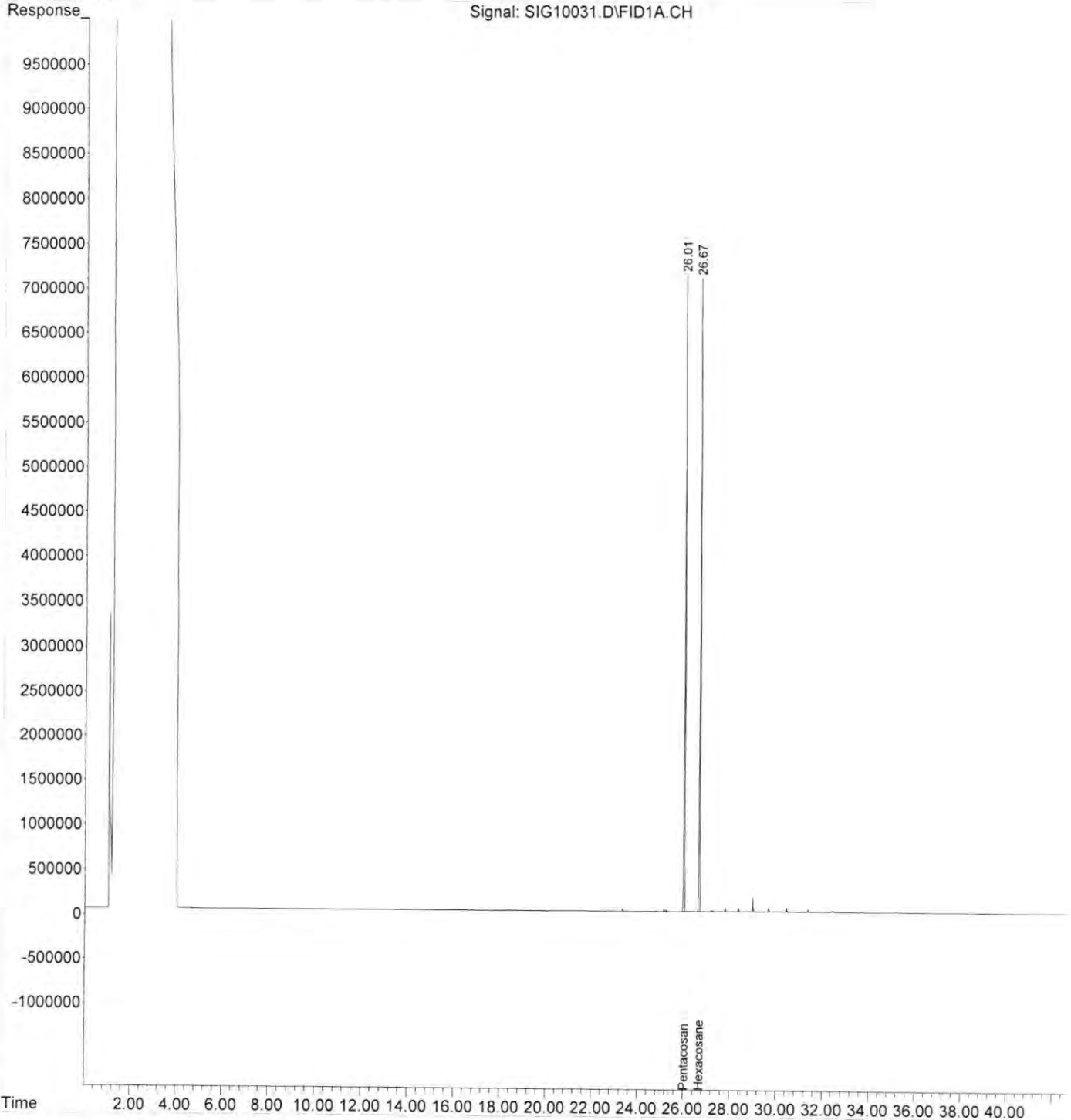
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10031.D Vial: 1
Acq On : 13 Jul 2024 10:42 am Operator: BAM
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:50 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10032.D Vial: 2
 Acq On : 13 Jul 2024 11:38 am Operator: BAM
 Sample : ICV 500PPM Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:44:04 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

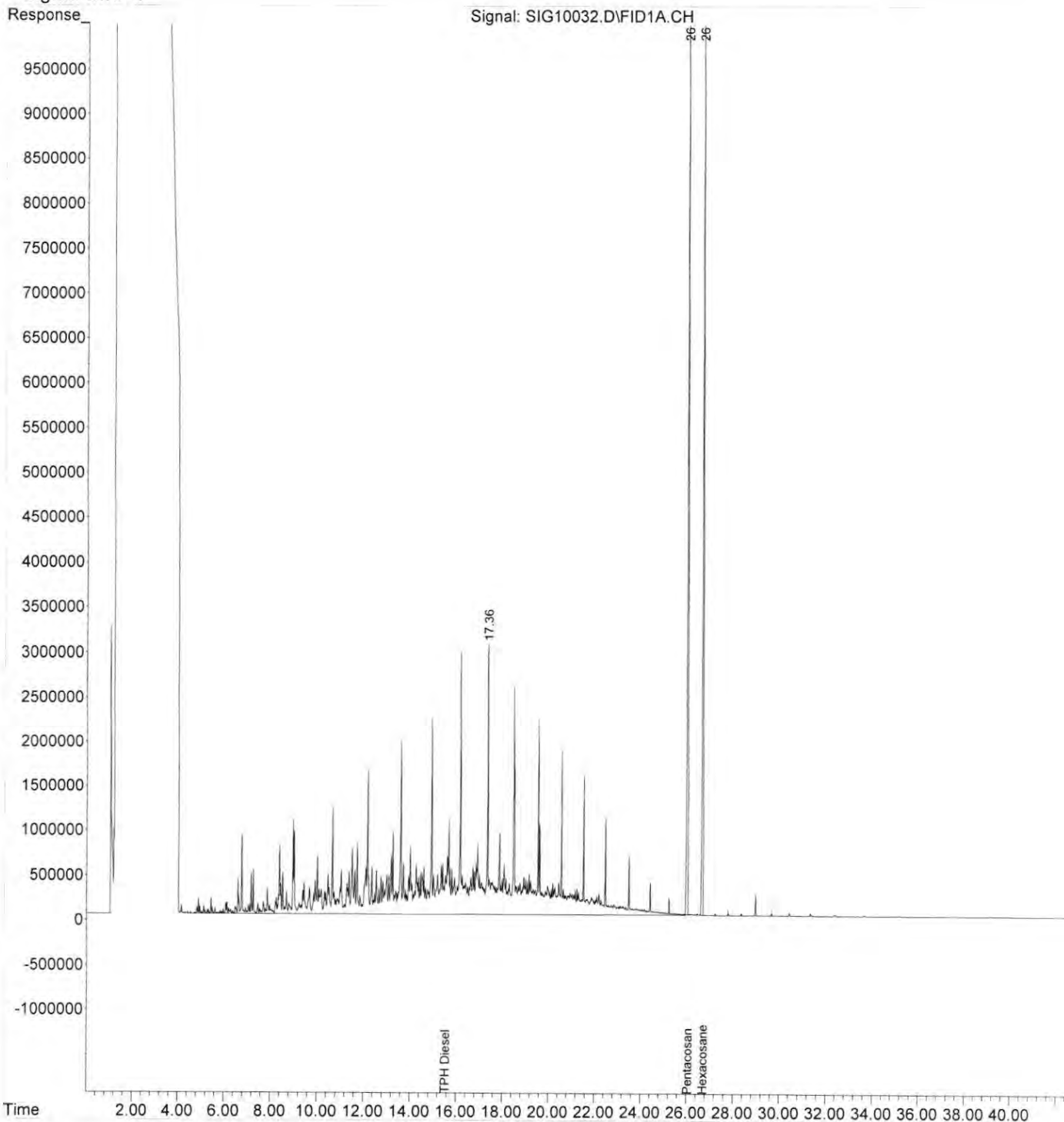
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.03	291157542	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.69	268217180	49.148 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 98.30%			
Target Compounds			
3) H TPH Diesel (C12-C14)	15.50	2728014584	520.998 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 : Z:\HPCHEM\1\2024DATA\071224\SIG10032.D Vial: 2
Acq On : 13 Jul 2024 11:38 am Operator: BAM
Sample : ICV 500PPM Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:50 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10033.D Vial: 3
 Acq On : 13 Jul 2024 12:34 pm Operator: BAM
 Sample : DX 500PPM CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:44:05 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.00	132317501	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.66	124280462	50.111 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 100.22%

Target Compounds

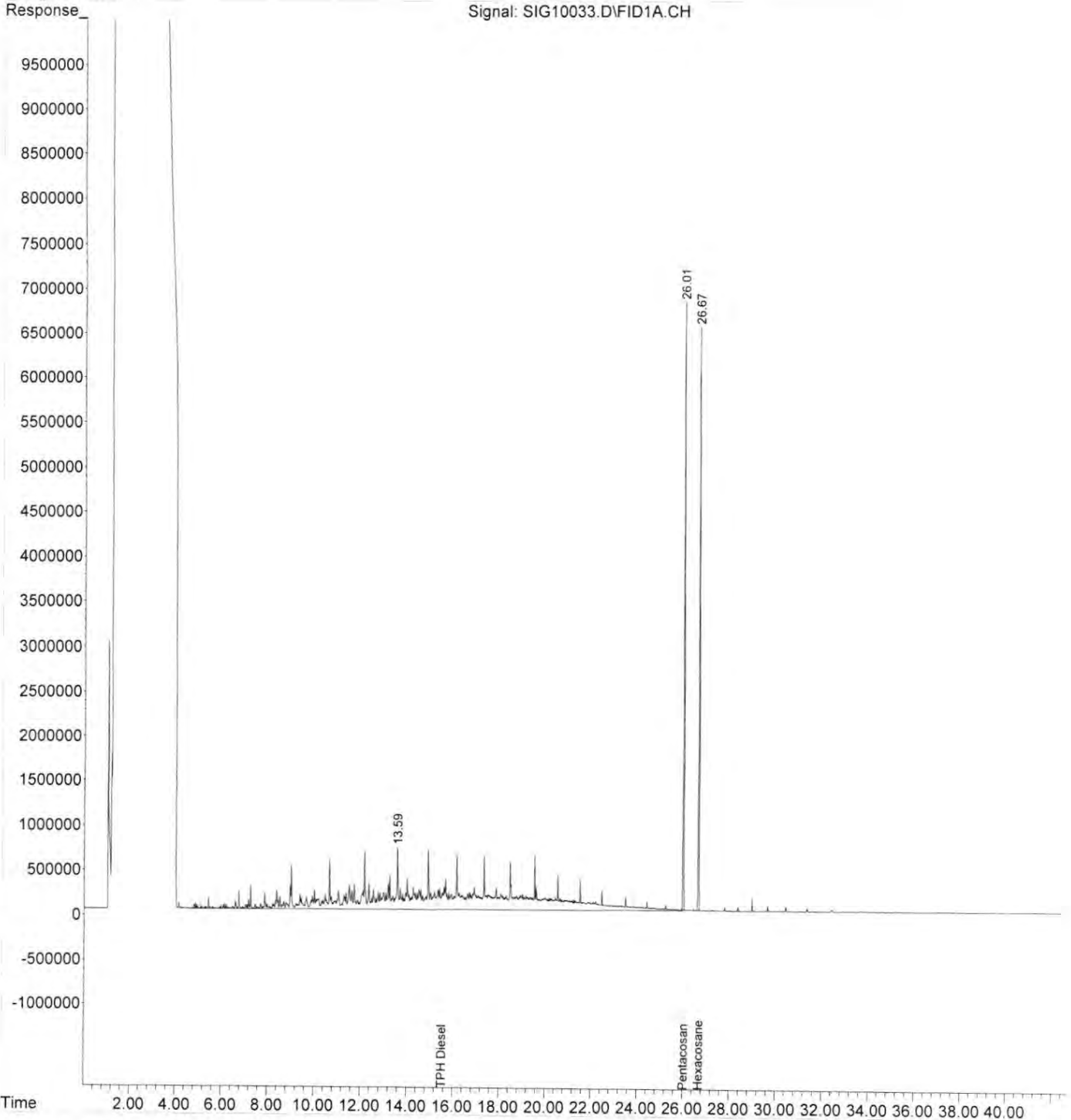
3) H TPH Diesel (C12-C14)	15.50	1173123659	492.996 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10033.D Vial: 3
Acq On : 13 Jul 2024 12:34 pm Operator: BAM
Sample : DX 500PPM CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:50 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10034.D Vial: 4
 Acq On : 13 Jul 2024 1:29 pm Operator: BAM
 Sample : LO 1000 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:44:07 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

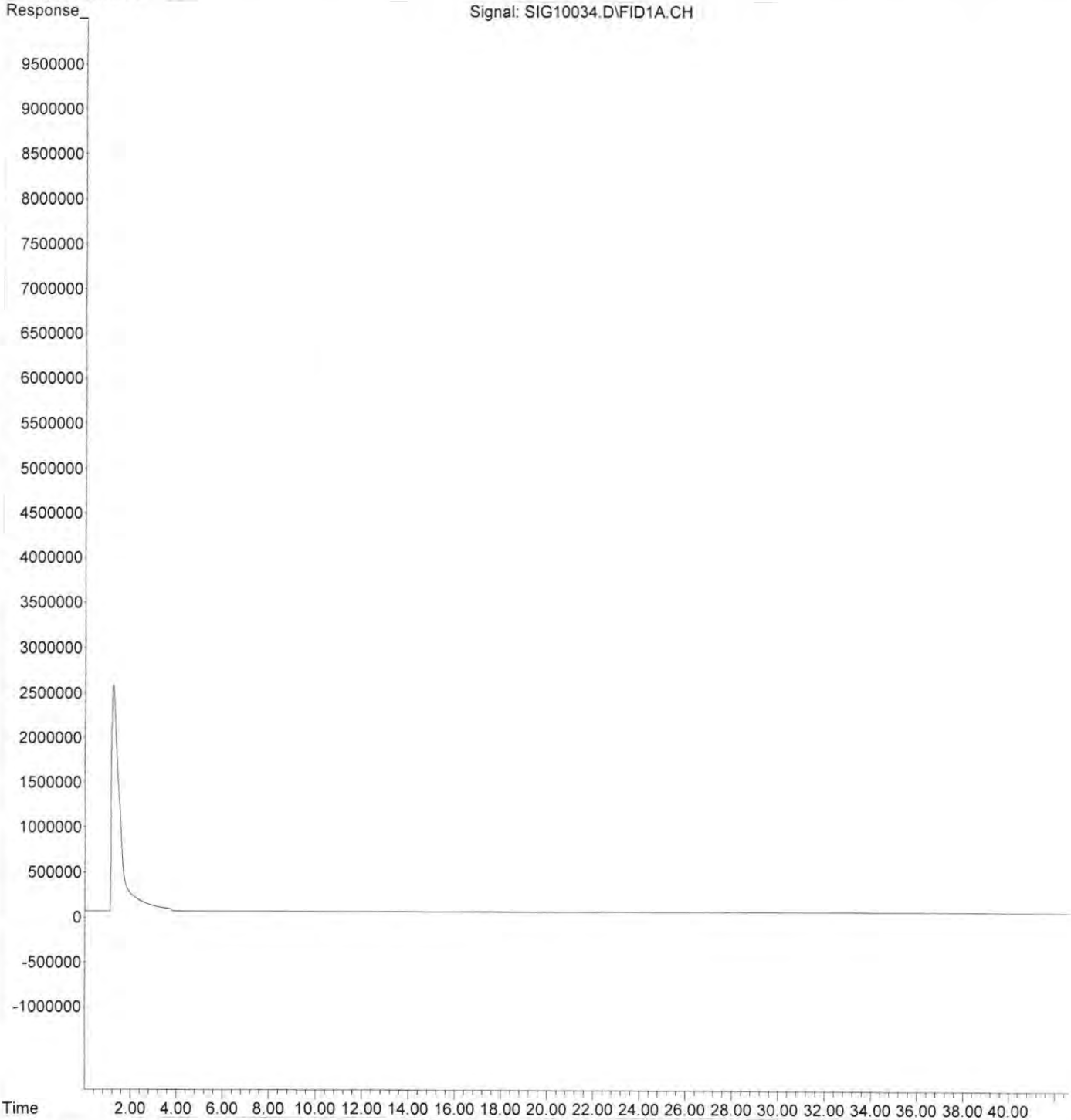
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	0.00	0	N.D. ppm
System Monitoring Compounds			
2) S Hexacosane	0.00	0	N.D. ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 0.00%#			
Target Compounds			
3) H TPH Diesel (C12-C14)	15.50	11338562	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	29.00	15340775	N.D. ppm
5) H Mineral Oil	20.00	7310041	N.D. ppm
6) h HCID Gas (C7-C12)	7.00	2176245	N.D. ppm
7) h HCID Diesel (C12-C14)	15.50	52663945	N.D. ppm
8) h HCID Oil (>C14)	27.80	12026367	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10034.D Vial: 4
Acq On : 13 Jul 2024 1:29 pm Operator: BAM
Sample : LO 1000 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:46 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10035.D Vial: 5
 Acq On : 13 Jul 2024 2:25 pm Operator: BAM
 Sample : MO 1000 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:44:09 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.02	197225481	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.68	182533943	49.378 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 98.76%

Target Compounds

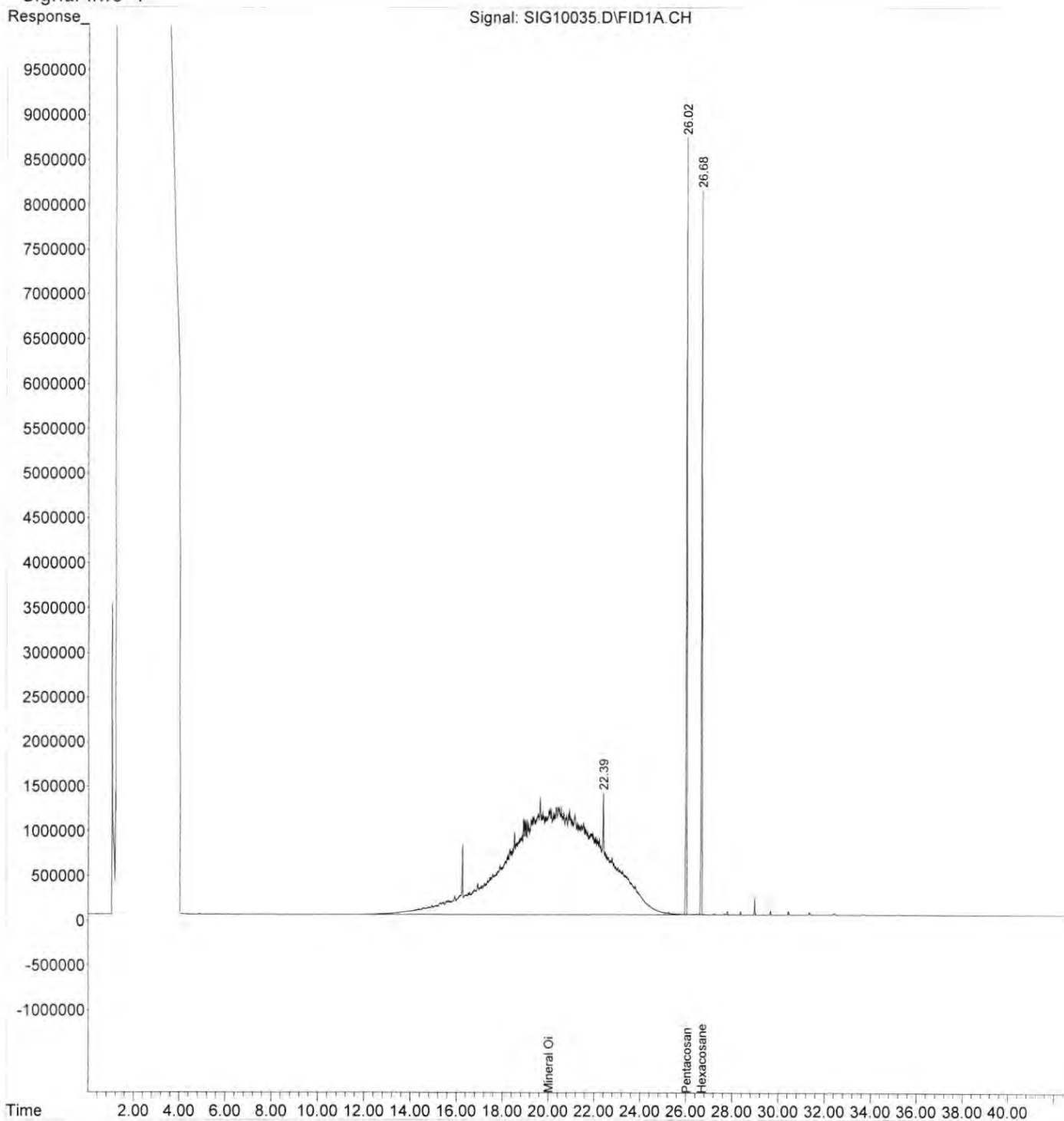
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	20.00	3537190288	964.431 ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10035.D Vial: 5
Acq On : 13 Jul 2024 2:25 pm Operator: BAM
Sample : MO 1000 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:51 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10036.D Vial: 6
 Acq On : 13 Jul 2024 3:20 pm Operator: BAM
 Sample : GAS 40 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 08:44:10 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	26.01	143517548	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.67	134877699	50.140 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 100.28%

Target Compounds

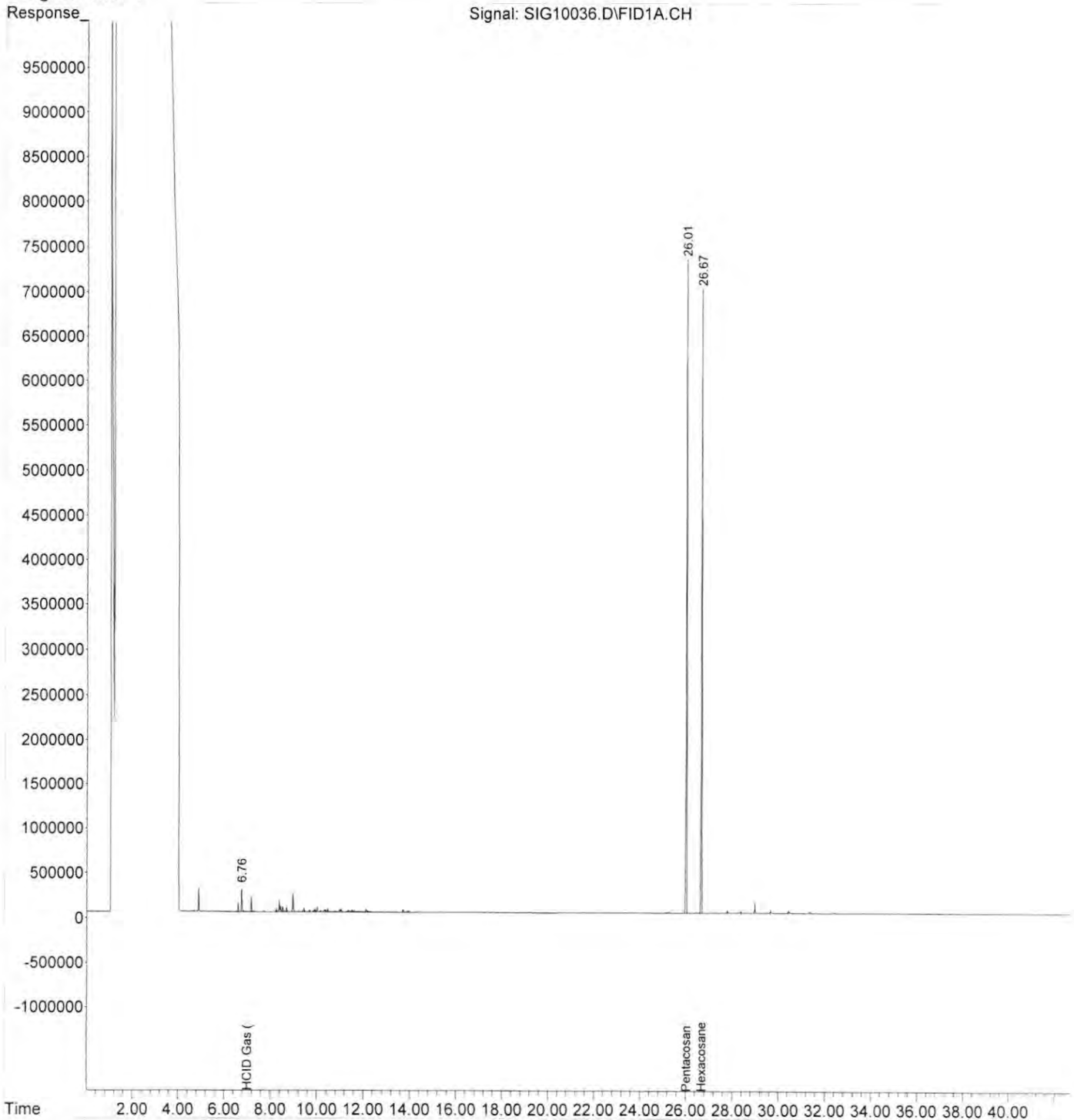
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	7.00	37759843	42.807 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071224\SIG10036.D Vial: 6
Acq On : 13 Jul 2024 3:20 pm Operator: BAM
Sample : GAS 40 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 8:52 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071524\SIG10001.D Vial: 1
 Acq On : 15 Jul 2024 12:15 pm Operator: BAM
 Sample : BLK Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 12:58:36 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

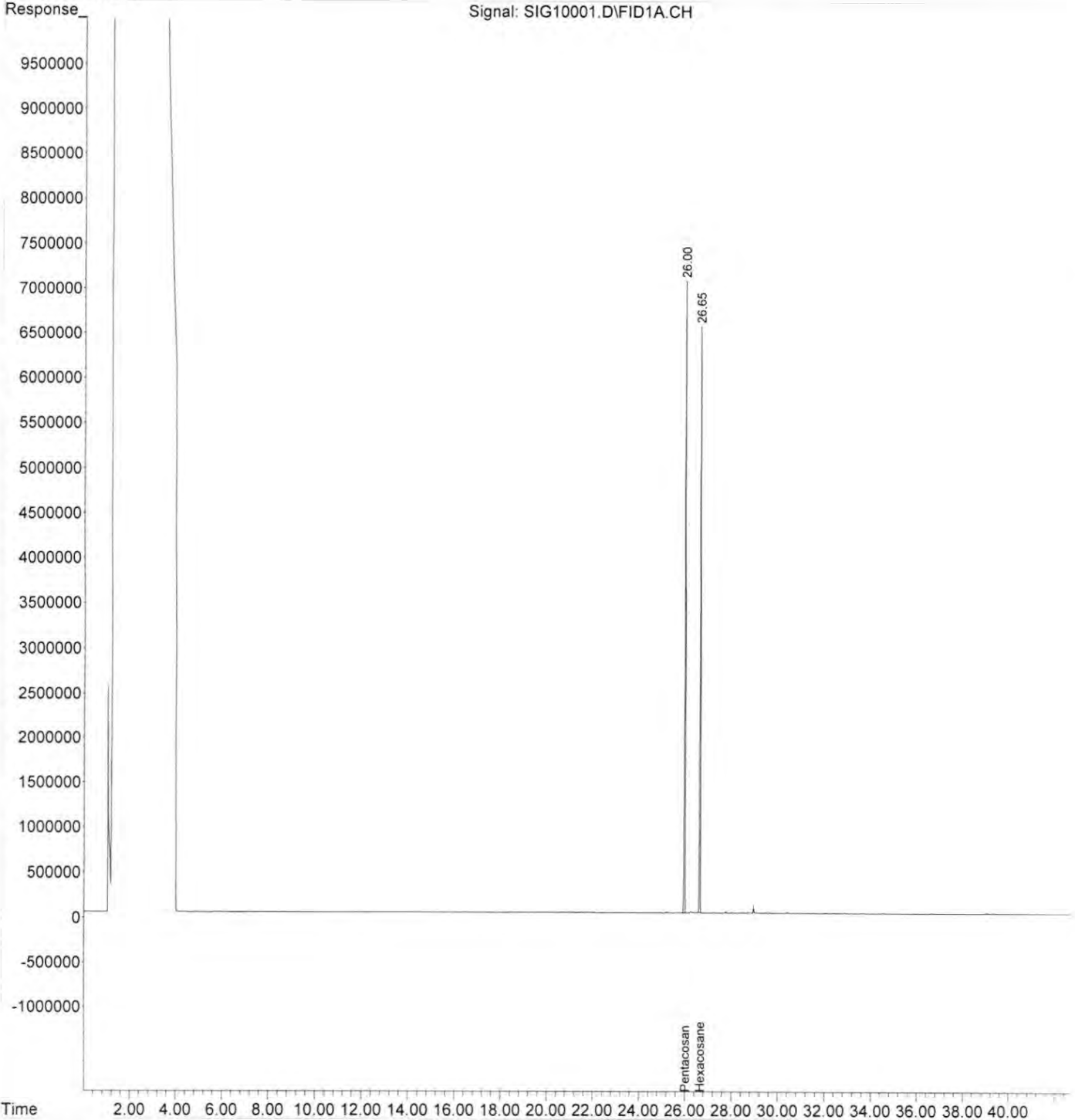
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.00	145309098	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.65	124069914	45.554 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 91.11%			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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 : Z:\HPCHEM\1\2024DATA\071524\SIG10001.D Vial: 1
Acq On : 15 Jul 2024 12:15 pm Operator: BAM
Sample : BLK Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 13:01 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\071524\SIG10002.D Vial: 2
 Acq On : 15 Jul 2024 1:10 pm Operator: BAM
 Sample : LO 1000 CCV Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Jul 15 13:56:13 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
 Title :
 Last Update : Fri Jul 12 06:42:34 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

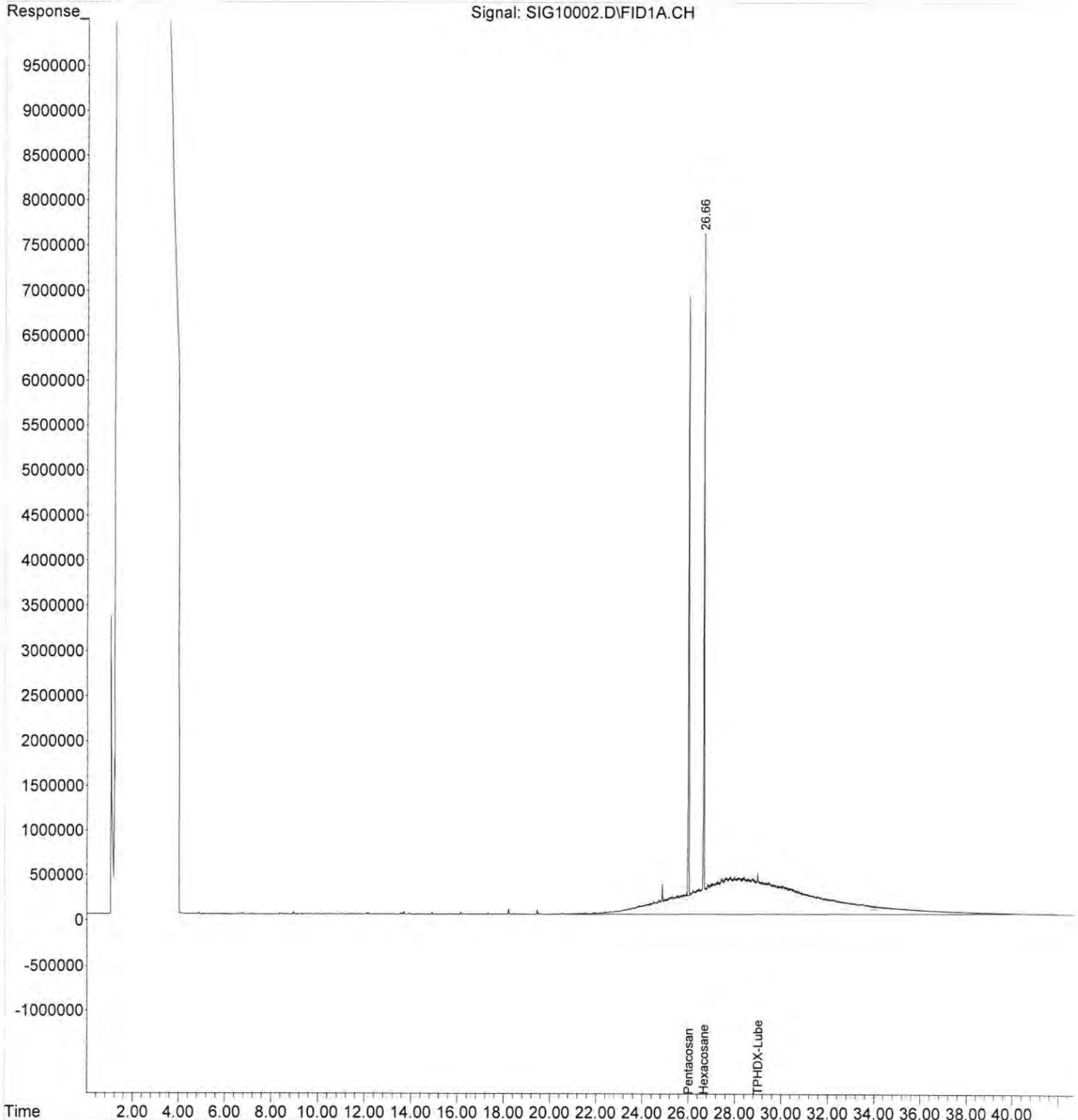
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	26.01	142839075	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.66	130875057	48.883 ppm m
Spiked Amount 50.000 Range 50 - 150 Recovery = 97.77%			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	29.00	1574091467	1003.276 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 : Z:\HPCHEM\1\2024DATA\071524\SIG10002.D Vial: 2
Acq On : 15 Jul 2024 1:10 pm Operator: BAM
Sample : LO 1000 CCV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Jul 15 13:59 2024 Quant Results File: 240709DHT.RES

Quant Method : Z:\HPCHEM\1\METHODS\240709DHT.M (Chemstation Integrator)
Title :
Last Update : Fri Jul 12 06:42:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\07182024 Hg 245.wszf

Creation Date: 7/18/2024 11:12:08 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	07/18/24 12:44:30 pm	0.000	-329	2.46	-52.62		N/A
Replicates				-334.8	-324.6	-319.6	-336.4	
Standard #1 (0.1 ug/L)	STD	07/18/24 12:47:01 pm	0.100	2957	0.62	-5.64		N/A
Replicates				2930.8	2959.1	2970.1	2968.5	
Standard #2 (0.5 ug/L)	STD	07/18/24 12:49:33 pm	0.500	11866	0.63	-7.17		N/A
Replicates				11784.0	11827.7	11898.2	11952.3	
Standard #3 (2.0 ug/L)	STD	07/18/24 12:52:05 pm	2.000	48226	0.50	119.23		N/A
Replicates				47953.3	48129.7	48304.6	48514.7	
Standard #4 (5.0 ug/L)	STD	07/18/24 12:54:37 pm	5.000	111271	0.61	-60.74		N/A
Replicates				110440.0	111080.2	111508.9	112054.9	
Standard #5 (10.0 ug/L)	STD	07/18/24 12:57:10 pm	10.000	224565	0.41	6.94		N/A
Replicates				223521.8	224222.3	224796.0	225720.5	
Calibration								
Equation:	A = 847.618 + 22356.242C							
R2:	0.99973							
SEE:	1612.3090							
Flags:								
ICV	ICV	07/18/24 12:59:53 pm	3.800	85737	0.55			94.93
Replicates				85094.4	85714.2	85959.5	86179.2	
CCV (95-105%)	OPR	07/18/24 01:02:25 pm	5.000	112593	0.65			99.97
Replicates				111737.1	112355.8	112836.3	113441.9	
ICV	ICV	07/18/24 01:04:56 pm	4.200	94637	1.01			104.88
Replicates				93547.4	94316.0	94896.4	95787.9	
CCB	CCB	07/18/24 01:07:27 pm	-0.008	659	6.85			N/A
Replicates				661.4	666.9	667.6	640.1	
BLANK	MB	07/18/24 01:09:58 pm	-0.012	580	3.89			N/A
Replicates				574.3	594.9	577.1	572.1	
LCS	LCS	07/18/24 01:12:29 pm	5.140	115768	0.46		L	128.51
Replicates				115070.6	115689.3	116029.2	116281.7	
WEG0203-01	UNK	07/18/24 01:15:01 pm	0.003	915	9.05			N/A
Replicates				912.4	918.6	921.9	908.3	

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
WEG0469-01	UNK	07/18/24 01:17:32 pm	-0.001	815	33.60			N/A
Replicates		809.0 831.5 809.7 810.7						
MS1	UNK	07/18/24 01:20:04 pm	5.830	131258	2.93			N/A
Replicates		125799.6 131431.4 134069.1 133732.9						
MSD1	UNK	07/18/24 01:22:35 pm	5.440	122563	0.62			N/A
Replicates		121634.0 122330.7 122889.0 123398.2						
WEG0469-02	UNK	07/18/24 01:25:07 pm	-0.033	121	1.69			N/A
Replicates		117.2 127.4 133.2 105.2						
WEG0469-03	UNK	07/18/24 01:27:39 pm	0.003	904	16.82			N/A
Replicates		898.0 905.2 917.4 896.6						
WEG0469-04	UNK	07/18/24 01:30:11 pm	-0.004	752	26.87			N/A
Replicates		750.3 735.0 732.6 788.5						
WEG0469-05	UNK	07/18/24 01:32:44 pm	-0.011	597	1.67			N/A
Replicates		596.1 594.4 594.1 603.1						
MS2	UNK	07/18/24 01:35:16 pm	-0.035	61	19.42			N/A
Replicates		252.7 105.8 -17.7 -97.5						
MSD2	UNK	07/18/24 01:37:47 pm	4.840	109096	0.43			N/A
Replicates		108465.0 109051.8 109332.5 109534.0						
WEG0469-06	UNK	07/18/24 01:40:18 pm	-0.027	249	2.05			N/A
Replicates		240.4 260.7 259.1 237.2						
WEG0469-07	UNK	07/18/24 01:42:49 pm	-0.013	548	2.68			N/A
Replicates		541.7 559.8 547.8 544.1						
WEG0469-08	UNK	07/18/24 01:45:21 pm	-0.010	631	4.57			N/A
Replicates		630.0 643.0 632.1 618.8						
WEG0469-09	UNK	07/18/24 01:47:52 pm	-0.004	767	21.23			N/A
Replicates		768.7 755.9 790.2 752.2						
BLK	UNK	07/18/24 01:50:23 pm	4.710	106062	0.78			N/A
Replicates		104956.8 105950.4 106535.3 106805.8						
MDL 0.1 1	UNK	07/18/24 01:52:54 pm	0.084	2721	0.59			N/A
Replicates		2713.2 2709.8 2733.5 2725.7						
MDL 0.1 2	UNK	07/18/24 01:55:26 pm	0.098	3028	1.08			N/A
Replicates		2994.9 3031.5 3049.1 3038.1						
MDL 0.1 3	UNK	07/18/24 01:57:57 pm	0.109	3290	1.33			N/A
Replicates		3249.2 3280.3 3310.3 3321.6						
WEG0469-10	UNK	07/18/24 02:00:29 pm	0.000	840	102.47			N/A
Replicates		844.2 828.0 842.9 844.4						
WEG0469-11	UNK	07/18/24 02:03:01 pm	-0.019	429	2.15			N/A
Replicates		422.3 420.0 436.1 437.1						
WEG0469-12	UNK	07/18/24 02:05:32 pm	-0.006	712	12.92			N/A
Replicates		719.6 688.1 710.8 729.1						

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
WEG0509-02	UNK	07/18/24 02:08:05 pm	-0.004	757	20.50			N/A
Replicates		737.6 755.0 754.1 782.3						
WEG0509-04	UNK	07/18/24 02:10:37 pm	-0.005	725	6.05			N/A
Replicates		730.5 728.0 713.8 726.5						
WEG0509-05	UNK	07/18/24 02:13:09 pm	-0.032	136	5.70			N/A
Replicates		97.7 144.1 114.1 190.1						
WEG0509-06	UNK	07/18/24 02:15:41 pm	-0.027	242	5.68			N/A
Replicates		276.9 263.2 223.5 202.7						
WEG0509-07	UNK	07/18/24 02:18:13 pm	-0.009	649	3.19			N/A
Replicates		654.8 649.4 640.0 651.5						
WEG0615-01@10	UNK	07/18/24 02:20:44 pm	1.390	31868	0.25			N/A
Replicates		31753.7 31916.6 31919.1 31883.4						
WEG0615-01	UNK	07/18/24 02:23:15 pm	O/R	285898	0.23	O		N/A
Replicates		284943.8 286063.1 286349.4 286236.4						
BLK	UNK	07/18/24 02:27:50 pm	-0.021	380	2.90			N/A
Replicates		379.9 392.8 387.1 361.6						
LCS	UNK	07/18/24 02:30:22 pm	5.260	118422	0.14			N/A
Replicates		118194.2 118559.2 118542.1 118391.2						
BLANK	UNK	07/18/24 02:45:52 pm	0.002	889	23.45			N/A
Replicates		893.8 874.8 896.3 890.0						
CK	UNK	07/18/24 02:48:24 pm	2.290	51989	0.11			N/A
Replicates		51912.6 51989.5 52024.1 52029.1						
CK	UNK	07/18/24 02:50:56 pm	5.410	121696	0.50			N/A
Replicates		121068.8 121419.2 121832.5 122465.2						
MSDB	UNK	07/18/24 05:06:37 pm	5.120	115421	1.20			N/A
Replicates		113810.4 114919.2 115942.2 117012.2						
WEG0509-05	UNK	07/18/24 05:09:09 pm	-0.006	706	142.94			N/A
Replicates		969.5 745.0 610.6 500.6						
WEG0509-06	UNK	07/18/24 05:11:42 pm	-0.038	8	2.09			N/A
Replicates		-11.5 4.5 31.0 8.0						
BK	UNK	07/18/24 05:14:13 pm	-0.002	811	41.76			N/A
Replicates		801.7 797.9 811.3 832.3						
WEG0509-06	UNK	07/18/24 05:16:45 pm	-0.006	717	6.70			N/A
Replicates		713.5 705.9 726.3 720.4						
CK	UNK	07/18/24 05:19:17 pm	0.519	12451	1.59			N/A
Replicates		12227.1 12392.1 12528.1 12657.6						

Starting sequence Wed Jul 24 16:05:35 2024

Instrument Name: MSD4

Sequence File: T:\Data1\MSD4\SEQUENCES\2024\052424C.s

Comment: CARDNO 625

Operator: MAH

Data Path: T:\DATA1\MSD4\2024\JUL\24C\

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	BEG1115-MS1
10) Sample	12	01201010	CARDSIM	BEG1115-MSD1
11) Sample	13	01301011	CARDSIM	BEG1115-BS1
12) Sample	14	01401012	CARDSIM	BEG1115-BLK1
13) Sample	15	01501013	CARDSIM	WEG0469-01
14) Sample	16	01601014	CARDSIM	WEG0469-04
15) Sample	17	01701015	CARDSIM	WEG0469-05
16) Sample	18	01801016	CARDSIM	WEG0469-06

Sequence completed Wed Jul 24 23:26:19 2024

17) Sample

T:\DATA1\MSD4\2024\JUL\24C\2024 Jul 24 1605 Quality Log.LOG

T:\DATA1\MSD4\2024\JUL\24C\2024 Jul 24 1605 Sequence Log .LOG

18) Sample

19) Sample

20) Sample

21) Sample



Cardano Only

QC Checklist for EPA 8270/625.1 - SOCs

Analysis Date: 7-24-24

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

Comments:
Analyst: *ML*

Checklist Completed Date: 7-25-24

Reviewed By: *[Signature]*

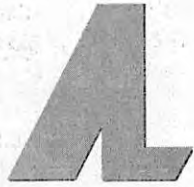
Date: 7/25/24



0.01
0.01
0.01
0.6
0.9
0.1
0.01

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	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

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
1,4-Dioxane C10	100	100	1000
IS/surrogate 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 MeCl₂ (2301678).

Method Path : T:\Data1\MSD4\METHODS\2024\
 Method File : TESTCD.M
 Title : EPA 8270D - GC MSD4
 Last Update : Thu Jul 25 13:58:49 2024
 Response Via : Initial Calibration

Calibration Files

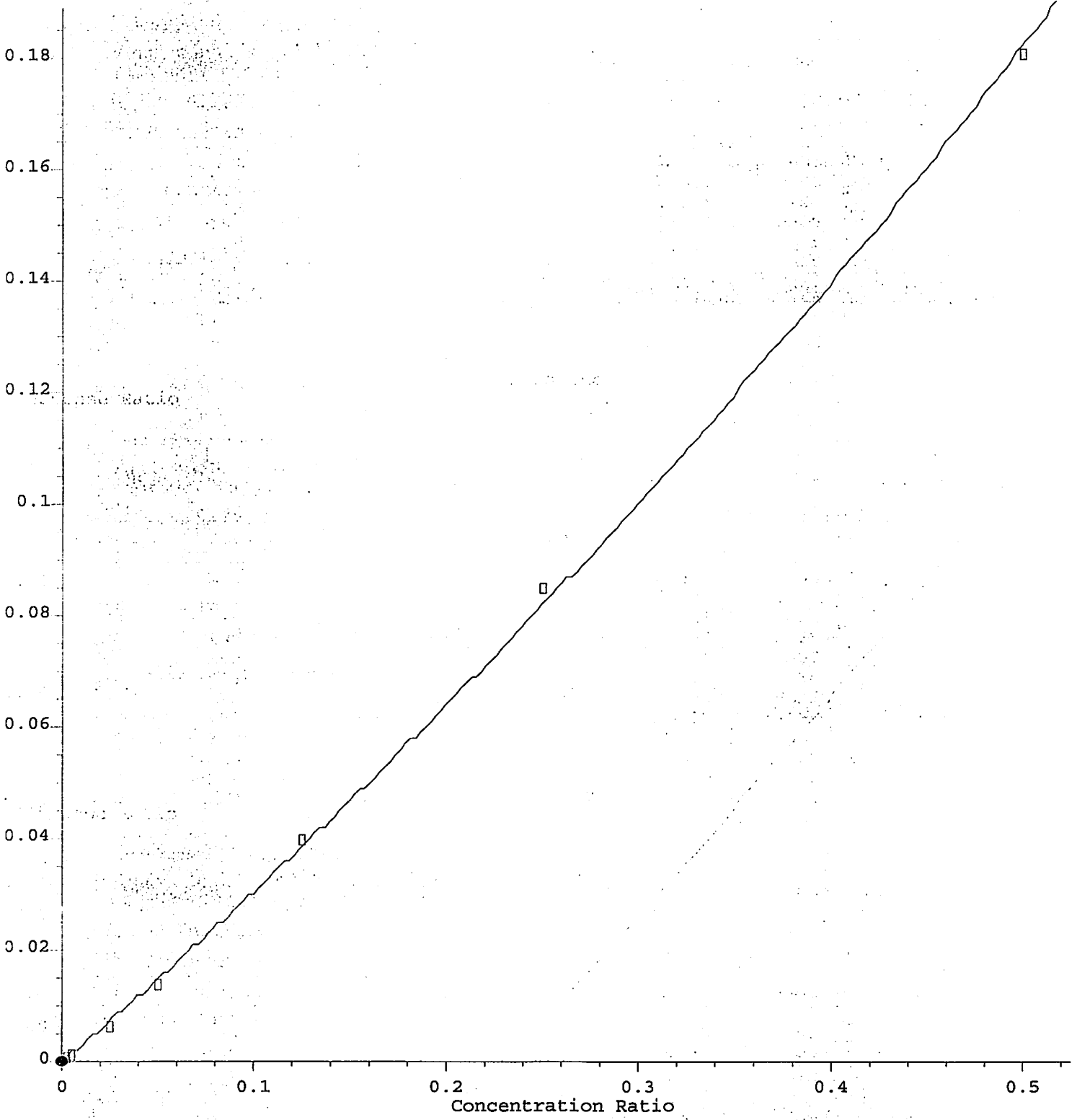
0.05=00801008.D 10=00201002.D 5=00301003.D 2.5=00401004.D 1=00501005.D 0.5=00601006.D 0.1=00701007.D

Compound	0.05	10	5	2.5	1	0.5	0.1	Avg	%RSD
-----ISTD-----									
1) I Acenaphthene-d10									
2) Atrazine	0.264	0.361	0.340	0.318	0.276	0.253	0.235	0.292	16.26
3) Metolachlor	0.697	0.944	0.891	0.835	0.725	0.676	0.643	0.773	15.09
4) Chlorpyrifos	0.158	0.199	0.183	0.178	0.159	0.148	0.145	0.167	11.80
-----ISTD-----									
5) I Chrysene-d12									
6) S Terphenyl-d14	1.076	1.209	1.259	1.161	1.124	1.200	1.144	1.168	5.17
7) Permerthins	2.146	0.694	0.599	0.500	0.466	0.438	0.409	0.750	83.09

(#) = Out of Range

Atrazine

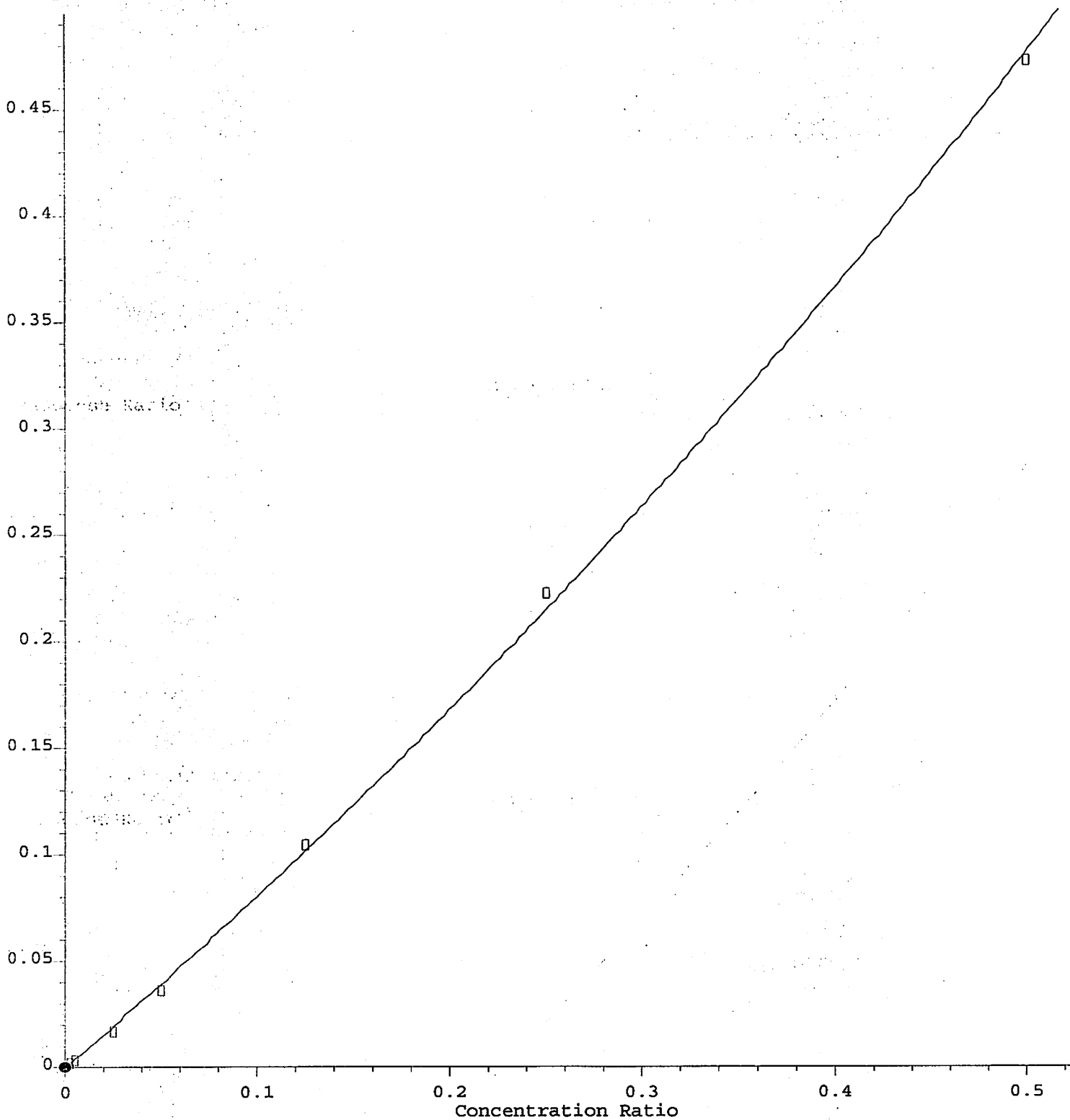
Response Ratio



R = 1.47e-001 A*A + 2.91e-001 A + 0.00e+000
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\TESTCD.M
Calibration Table Last Updated: Thu Jul 25 13:58:49 2024

Metolachlor

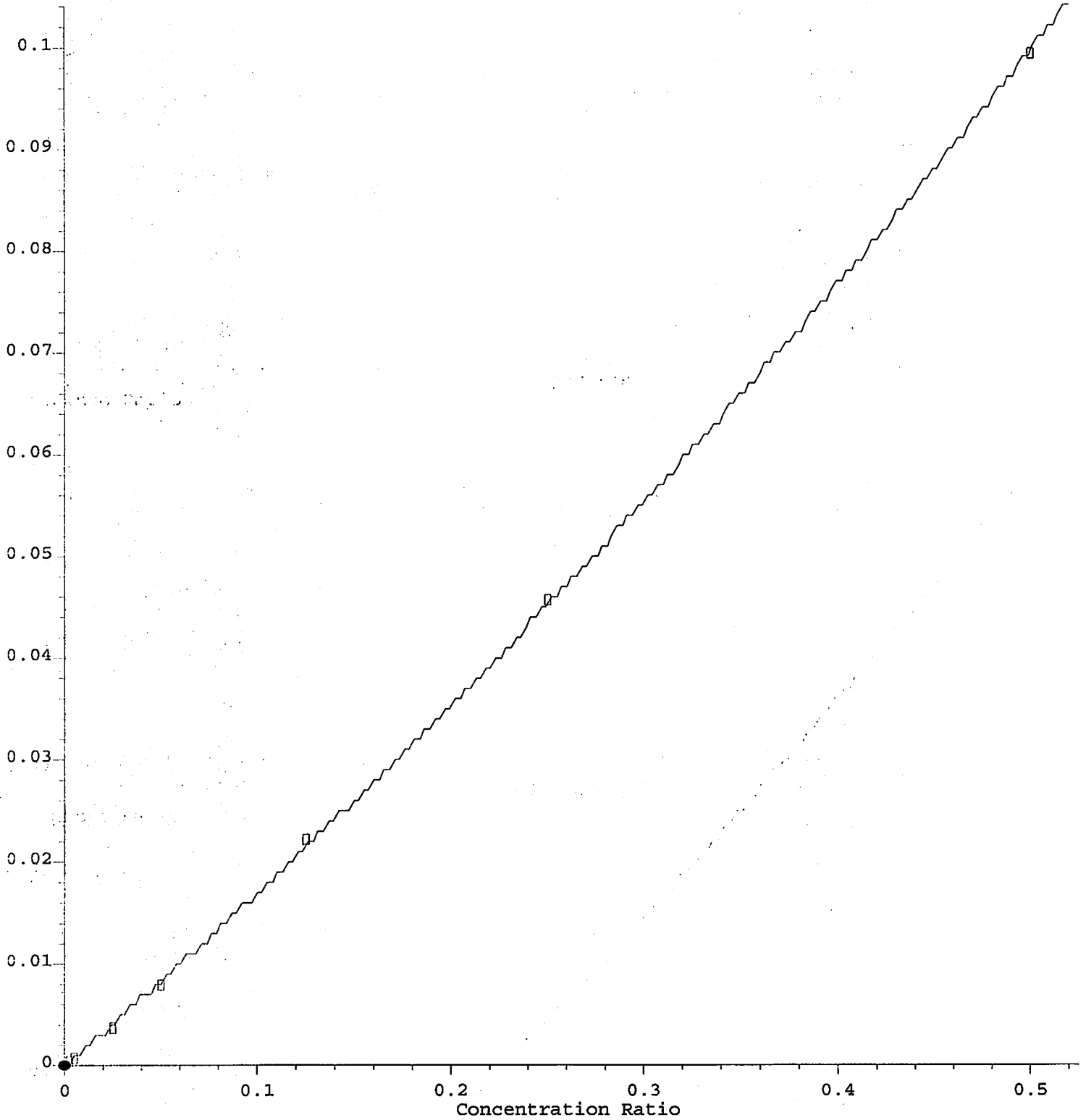
Response Ratio



R = 3.71e-001 A*A + 7.67e-001 A + 0.00e+000
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\TESTCD.M
Calibration Table Last Updated: Thu Jul 25 13:58:49 2024

Chlorpyrifos

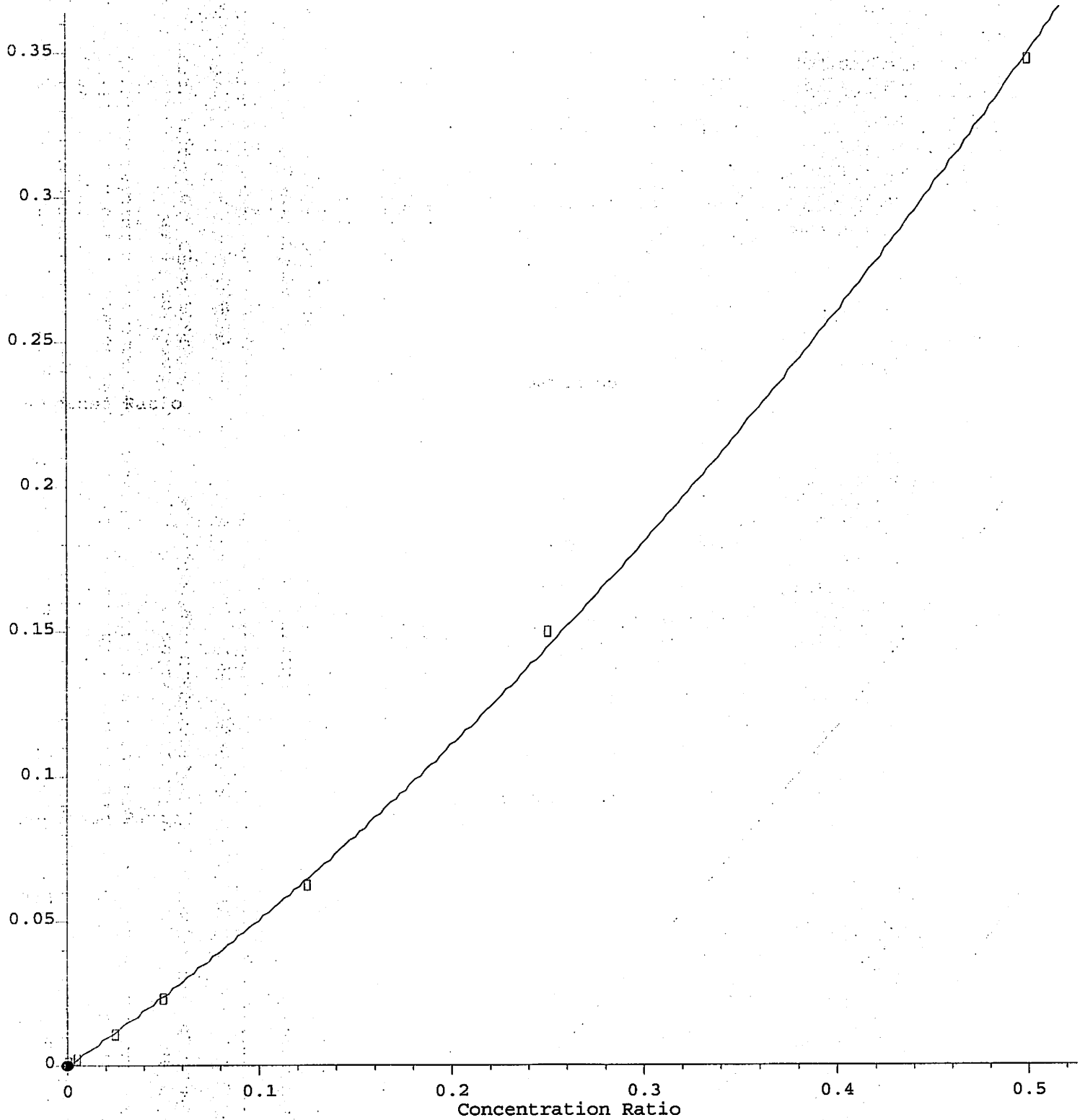
Response Ratio



R = 7.37e-002 A*A + 1.62e-001 A + 0.00e+000
Coef of Det (r^2) = 1.000 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\TESTCD.M
Calibration Table Last Updated: Thu Jul 25 13:58:49 2024

Permerthins

Response Ratio



R = 4.80e-001 A*A + 4.58e-001 A + 0.00e+000
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2024\TESTCD.M
Calibration Table Last Updated: Thu Jul 25 13:58:49 2024

PREPARATION BENCH SHEET

Organics

Original

BEG1115

BEG1115

Matrix: Water

Prepared using: SVOC - SVOC Water

Prepared using: SVOC - SVOC Water

Prepared using: SVOC - SVOC Water

Analyses
SVOC 625 MISC

Spiking Solution(s)
2400673 Cardno Spk 100

Surrogate Solution(s)
2303399 CLP B/N 1000
2400924 CLP Acid Surr 2000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BEG1115-BLK1	Blank			7/15/24 7:11 MAH	1000	1		25	
QC	BEG1115-BS1	LCS			7/15/24 7:11 MAH	1000	1	50	25	
QC	BEG1115-MS1	Matrix Spike [WEG0469-05]			7/15/24 7:11 MAH	500	1	50	25	
QC	BEG1115-MSD	Matrix Spike Dup [WEG0469-05]			7/15/24 7:11 MAH	500	1	50	25	
SVOC 625 MISC	WEG0469-01	WW-3	07/22/2024	07/15/2024	7/15/24 6:11 MAH	1001	1		25	
SVOC 625 MISC	WEG0469-04	E-2	07/22/2024	07/15/2024	7/15/24 6:11 MAH	999	1		25	
SVOC 625 MISC	WEG0469-05	E-1	07/22/2024	07/15/2024	7/15/24 6:11 MAH	1063	1		25	
SVOC 625 MISC	WEG0469-06	E-1 Dup	07/22/2024	07/15/2024	7/15/24 6:11 MAH	1007	1		25	

Reagents		
Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2303363	Sulfuric Acid	80621
2400200	CLP I.S. Spike 2000	061422
2401071	Dichloromethane	64047

Batch Comments:

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



Analyst:

Date

7-24-24

Run Date:

Date

Data Path : T:\Data1\MSD4\2024\JUL\24C\
Data File : 00101001.D
Acq On : 24 Jul 2024 4:08 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : T:\Data1\MSD4\METHODS\2024\Cardo-0724.M
Title : EPA 8270D - GC MSD4
Last Update : Wed Jul 24 15:48:38 2024

AutoFind: Scans 1933, 1934, 1935; Background Corrected with Scan 1923

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.4	250488	PASS
68	69	0.00	2	1.5	4007	PASS
69	198	0.00	100	38.1	270028	PASS
70	69	0.00	2	0.5	1229	PASS
127	198	25	75	50.7	359291	PASS
197	198	0.00	1	0.4	3171	PASS
198	198	100	100	100.0	708523	PASS
199	198	5	9	6.7	47637	PASS
275	198	10	60	28.5	202083	PASS
365	198	0.00	100	3.9	27435	PASS
441	443	0.01	100	75.8	108699	PASS
442	198	39	200	104.2	738133	PASS
443	442	15	24	19.4	143339	PASS

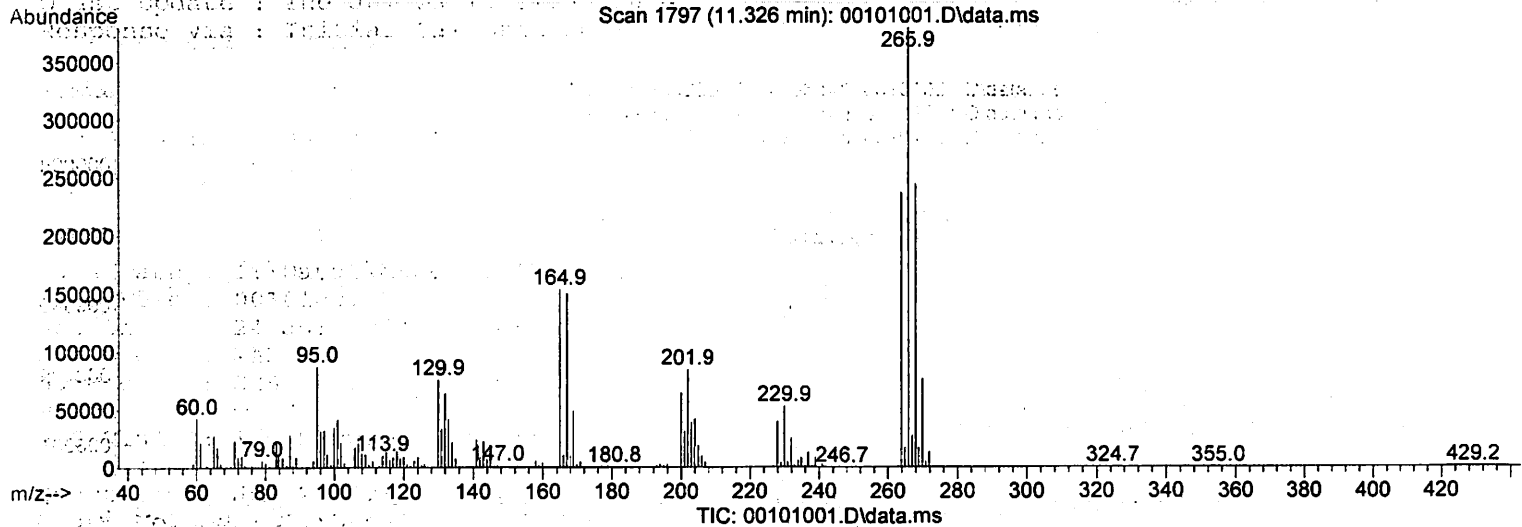
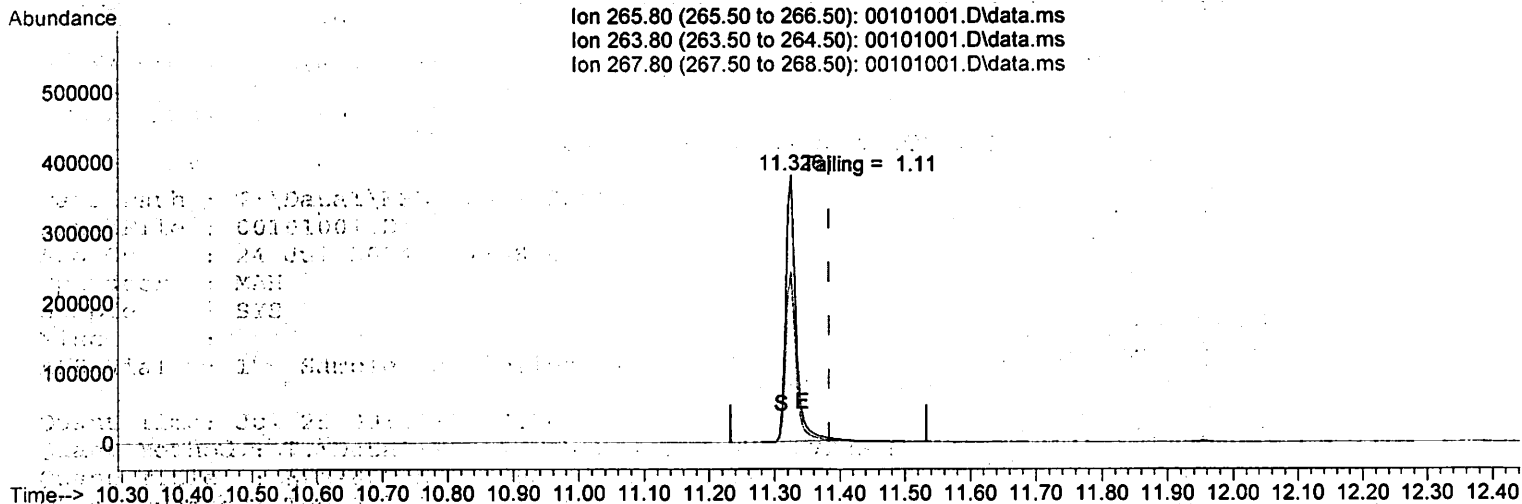
Cardo-0724.M Thu Jul 25 09:10:11 2024

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
198	198	100	100	100.0	708523	PASS
199	198	5	9	6.7	47637	PASS
275	198	10	60	28.5	202083	PASS
365	198	0.00	100	3.9	27435	PASS
441	443	0.01	100	75.8	108699	PASS
442	198	39	200	104.2	738133	PASS
443	442	15	24	19.4	143339	PASS

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 00101001.D
 Acq On : 24 Jul 2024 4:08 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 25 09:11:01 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\BNA-0722S.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 QLast Update : Tue Jul 23 10:01:59 2024
 Response via : Initial Calibration



(68) Pentachlorophenol

11.326min (-0.057) 0.00 ug/mL

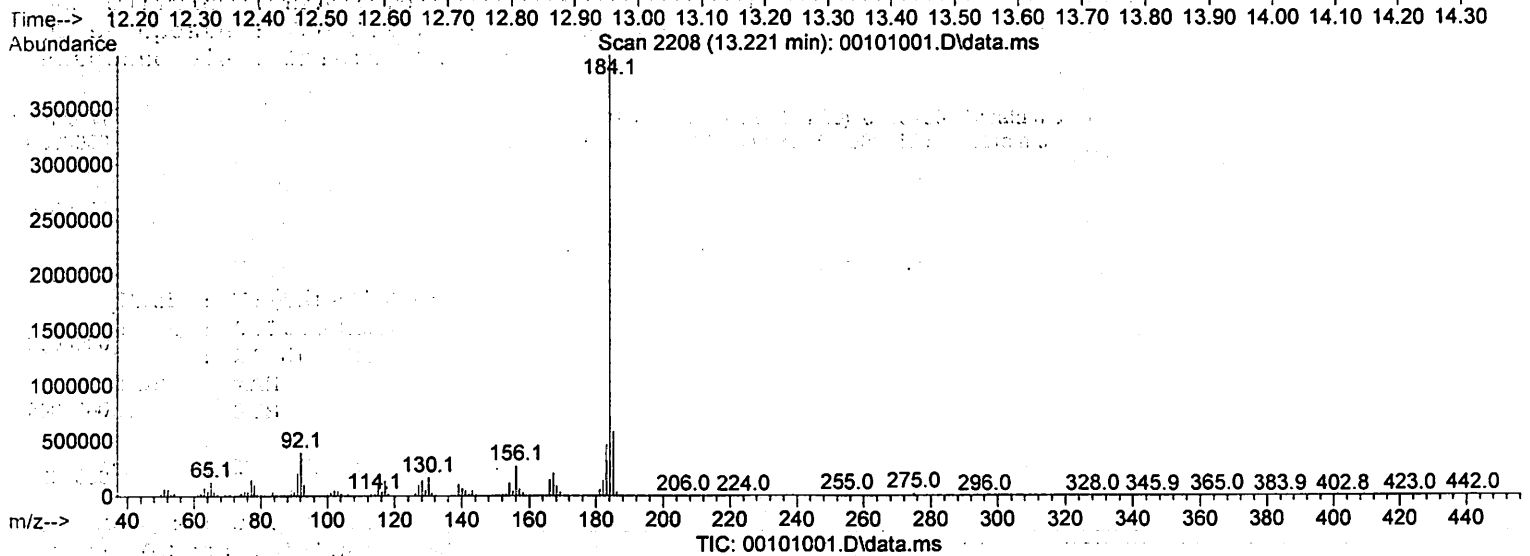
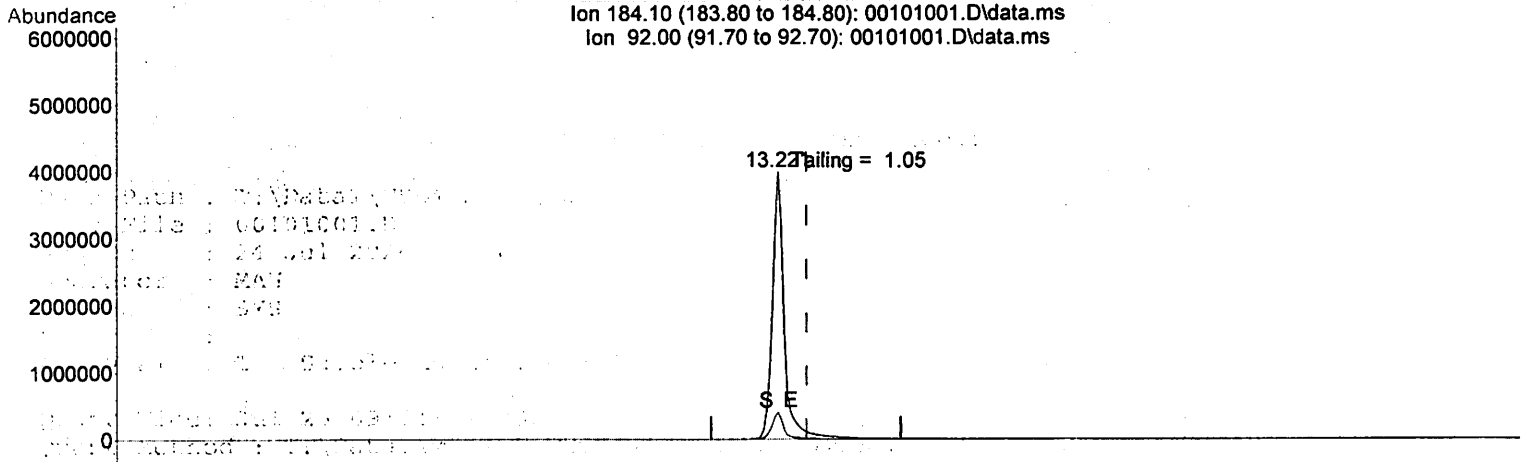
response 4170394

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	62.60	62.75
267.80	63.30	63.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 00101001.D
 Acq On : 24 Jul 2024 4:08 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 25 09:11:01 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\BNA-0722S.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 QLast Update : Tue Jul 23 10:01:59 2024
 Response via : Initial Calibration



(74) Benzidine

13.223min (-0.043) 0.00 ug/mL

response 51050063

Ion	Exp%	Act%
184.10	100.00	100.00
92.00	8.80	10.03
0.00	0.00	0.00
0.00	0.00	0.00

Area Percent Report

Data Path : T:\Data1\MSD4\2024\JUL\24C\
Data File : 00101001.D
Acq On : 24 Jul 2024 4:08 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-0722S.M
Title : EPA 8270D / EPA 625.1 - MSD4

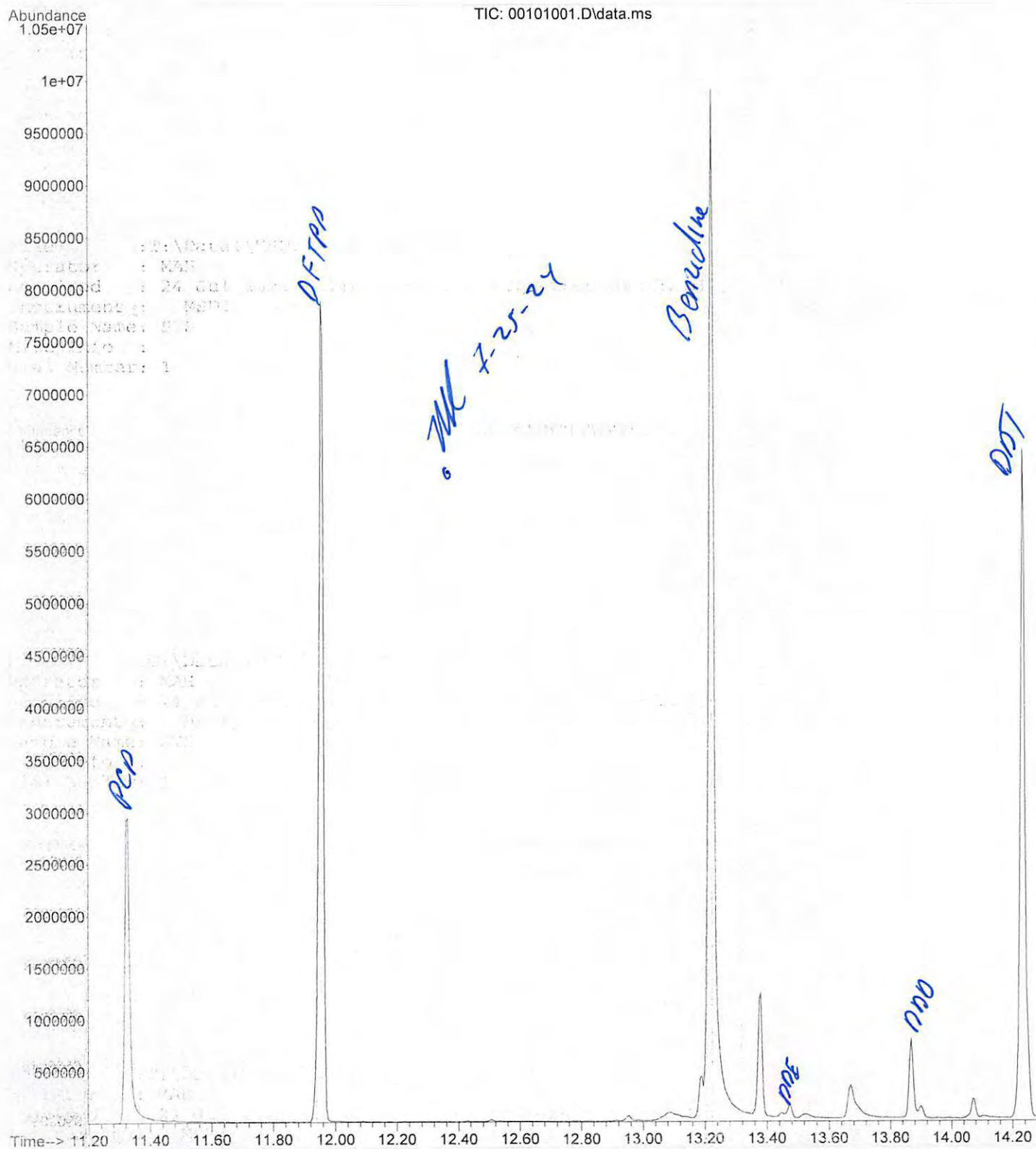
Signal : TIC: 00101001.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total	
1	13.446	2252	2257	2259	M	39537	323875	0.47%	0.424%	DDE
2	13.867	2344	2348	2352	M	732684	6565618	9.44%	8.586%	DDD
3	14.232	2418	2427	2438	M	6476937	69579589	100.00%	90.990%	DDT

Sum of corrected areas: 76469081

BNA-0722S.M Thu Jul 25 09:48:18 2024

File :T:\Data1\MSD4\2024\JUL\24C\00101001.D
Operator : MAH
Acquired : 24 Jul 2024 4:08 pm using AcqMethod SVOCT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 1



Internal Standard ICal Average Responses	CARDNO 72424
(method)	(method)

	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
0.05			71714021.39		52641982.42	
10			65946006.83		45517422.72	
5			70773628.49		45626215.8	
2.5			70046981.97		54408120.66	
1			67738482.41		49637612.19	
0.5			64297657.42		46057087.56	
0.1			60935741.3		41981568.42	
Average	#DIV/0!	#DIV/0!	67350360	#DIV/0!	47981430	#DIV/0!

50%	#DIV/0!	#DIV/0!	33675180	#DIV/0!	23990715	#DIV/0!
150%	#DIV/0!	#DIV/0!	101025540	#DIV/0!	71972145	#DIV/0!

Analyst: MAH

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 00201002.D
 Acq On : 24 Jul 2024 4:37 pm
 Operator : MAH
 Sample : CARDNO 10 PPM
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 25 14:26:43 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Acenaphthene-d10	9.740	164	65936542	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.783	240	45535488	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.528	244	69095265	25.99	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.96%	
Target Compounds						
						Qvalue
2) Atrazine	11.246	200	11908056	9.93	ug/mL	98
3) Metolachlor	12.429	162	31176039	9.94	ug/mL	98
4) Chlorpyrifos	12.438	197	6547451	9.97	ug/mL	96
7) Permethrins	15.606	183	16023081m	10.06	ug/mL	

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

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 00301003.D
 Acq On : 24 Jul 2024 5:05 pm
 Operator : MAH
 Sample : CARDNO 5 PPM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 25 14:27:51 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.741	164	70773628	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.783	240	45626216	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.529	244	71778082	26.95	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	107.80%	
Target Compounds						
						Qvalue
2) Atrazine	11.245	200	6012276	5.17	ug/mL	98
3) Metolachlor	12.428	162	15756023	5.16	ug/mL	100
4) Chlorpyrifos	12.438	197	3234535	5.05	ug/mL	100
7) Permethrin	15.600	183	6960614m	5.23	ug/mL	

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

Data Path : T:\Data\MSD4\2024\JUL\24C\
 Data File : 00401004.D
 Acq On : 24 Jul 2024 5:33 pm
 Operator : MAH
 Sample : CARDNO 2.5 PPM
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 25 14:28:24 2024
 Quant Method : T:\Data\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Acenaphthene-d10	9.740	164	70046982	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.784	240	54408121	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.530	244	78986539	24.87	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	99.48%	
Target Compounds						
						Qvalue
2) Atrazine	11.242	200	2786321	2.57	ug/mL	98
3) Metolachlor	12.428	162	7314684	2.56	ug/mL	99
4) Chlorpyrifos	12.437	197	1555499	2.58	ug/mL	99
7) Permerthins	15.605	183	3479785m	2.47	ug/mL	

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

Data Path : T:\Data\MSD4\2024\JUL\24C\
 Data File.: 00501005.D
 Acq On : 24 Jul 2024 6:02 pm
 Operator : MAH
 Sample : CARDNO 1 PPM
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 25 14:29:09 2024
 Quant Method : T:\Data\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Acenaphthene-d10	9.741	164	67738482	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.783	240	49637612	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.527	244	69766923	24.08	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	96.32%	
Target Compounds						
						Qvalue
2) Atrazine	11.241	200	935045	0.93	ug/mL	98
3) Metolachlor	12.427	162	2453855	0.92	ug/mL	100
4) Chlorpyrifos	12.438	197	537186	0.96	ug/mL	98
7) Permerthins	15.600	183	1196207m	1.00	ug/mL	

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

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Acenaphthene-d10	9.741	164	67738482	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.783	240	49637612	20.00	ug/mL	0.00
6) Terphenyl-d14	13.527	244	69766923	24.08	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	96.32%	
2) Atrazine	11.241	200	935045	0.93	ug/mL	98
3) Metolachlor	12.427	162	2453855	0.92	ug/mL	100
4) Chlorpyrifos	12.438	197	537186	0.96	ug/mL	98
7) Permerthins	15.600	183	1196207m	1.00	ug/mL	

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 00601006.D
 Acq On : 24 Jul 2024 6:30 pm
 Operator : MAH
 Sample : CARDNO 0.5 PPM
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 25 14:30:38 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Acenaphthene-d10	9.740	164	64297657	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.782	240	46057088	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.527	244	69067824	25.69	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	102.76%	
Target Compounds						
						Qvalue
2) Atrazine	11.235	200	426298m	0.45	ug/mL	
3) Metolachlor	12.428	162	1087137	0.44	ug/mL	99
4) Chlorpyrifos	12.436	197	238687	0.45	ug/mL	100
7) Permerthins	15.600	183	504429m	0.47	ug/mL	

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

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 00701007.D
 Acq On : 24 Jul 2024 6:58 pm
 Operator : MAH
 Sample : CARDNO 0.1 PPM
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 25 14:31:54 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.740	164	60935741	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.782	240	41981568	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.526	244	60045263	24.50	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	98.00%	
Target Compounds						
2) Atrazine	11.244	200	79326m	0.09	ug/mL	Qvalue
3) Metolachlor	12.427	162	200945m	0.09	ug/mL	
4) Chlorpyrifos	12.437	197	44250	0.09	ug/mL	94
7) Permethrins	15.600	183	85078m	0.09	ug/mL	

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

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 01101009.D
 Acq On : 24 Jul 2024 7:53 pm
 Operator : MAH
 Sample : BEG1115-MS1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 25 14:05:57 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Acenaphthene-d10	9.739	164	61179784	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.782	240	45185742	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.526	244	68303668	25.89	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.56%	
Target Compounds						
						Qvalue
2) Atrazine	11.245	200	5045215	5.03	ug/mL	98
3) Metolachlor	12.427	162	15888526	5.92	ug/mL	99
4) Chlorpyrifos	12.436	197	3113518	5.56	ug/mL	99
7) Permethrins	15.600	183	7813463m	5.79	ug/mL	

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

Compound

Internal Standards

Acenaphthene-d10

Chrysene-d12

System Monitoring Compounds

Terphenyl-d14

Spiked Amount

Target Compounds

Atrazine

Metolachlor

Chlorpyrifos

Permethrins

Test Method

Compound

Internal Standards

Acenaphthene-d10

Chrysene-d12

System Monitoring Compounds

Terphenyl-d14

Spiked Amount

Target Compounds

Atrazine

Metolachlor

Chlorpyrifos

Permethrins

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 01201010.D
 Acq On : 24 Jul 2024 8:21 pm
 Operator : MAH
 Sample : BEG1115-MSD1
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 25 14:07:09 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.740	164	63269104	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.782	240	46792177	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.526	244	72080893	26.39	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	105.56%	
Target Compounds						
						Qvalue
2) Atrazine	11.245	200	5360790	5.15	ug/mL	98
3) Metolachlor	12.427	162	16597790m	5.98	ug/mL	
4) Chlorpyrifos	12.437	197	3332941	5.74	ug/mL	98
7) Permethrins	15.600	183	8045133m	5.76	ug/mL	

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

Compound

Internal Standard
 Acenaphthene d10
 Chrysene d12

System Monitoring
 Terphenyl d14
 Spiked Amount

Target Compounds
 Atrazine
 Metolachlor
 Chlorpyrifos
 Permethrins

Compound

Internal Standard
 Acenaphthene d10
 Chrysene d12

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 01301011.D
 Acq On : 24 Jul 2024 8:49 pm
 Operator : MAH
 Sample : BEG1115-BS1
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 25 14:08:17 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.739	164	63442468	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.782	240	47590870	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.527	244	73592038	26.49	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	105.96%	
Target Compounds						
						Qvalue
2) Atrazine	11.245	200	5276546	5.07	ug/mL	97
3) Metolachlor	12.428	162	16675104	5.99	ug/mL	99
4) Chlorpyrifos	12.437	197	3318037	5.70	ug/mL	96
7) Permethrins	15.600	183	8203471m	5.78	ug/mL	

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

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 01401012.D
 Acq On : 24 Jul 2024 9:16 pm
 Operator : MAH
 Sample : BEG1115-BLK1
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 25 14:09:14 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.740	164	76603233	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.785	240	65176479	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.529	244	77164635	20.28	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	81.12%	

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 01501013.D
 Acq On : 24 Jul 2024 9:43 pm
 Operator : MAH
 Sample : WEG0469-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 25 14:10:08 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.739	164	49254738	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.780	240	38002713	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.525	244	57322592	25.84	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.36%	

Target Compounds Qvalue

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

Quant Time: Jul 25 14:10:08 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.739	164	49254738	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.780	240	38002713	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.525	244	57322592	25.84	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.36%	

Target Compounds Qvalue

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

Quant Time: Jul 25 14:10:08 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.739	164	49254738	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.780	240	38002713	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.525	244	57322592	25.84	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.36%	

Target Compounds Qvalue

Data Path : T:\Data\MSD4\2024\JUL\24C\
 Data File : 01601014.D
 Acq On : 24 Jul 2024 10:11 pm
 Operator : MAH
 Sample : WEG0469-04
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 25 14:11:01 2024
 Quant Method : T:\Data\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.738	164	59243779	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.783	240	45323539	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.528	244	68523295	25.90	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.60%	

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 01701015.D
 Acq On : 24 Jul 2024 10:38 pm
 Operator : MAH
 Sample : WEG0469-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 25 14:11:41 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.739	164	64504305	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.782	240	45985827	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.527	244	75422727	28.09	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	112.36%	

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2024\JUL\24C\
 Data File : 01801016.D
 Acq On : 24 Jul 2024 11:05 pm
 Operator : MAH
 Sample : WEG0469-06
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 25 14:23:56 2024
 Quant Method : T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jul 25 13:58:49 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.738	164	54385753	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.781	240	42781600	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.526	244	63780097	25.54	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	102.16%	

Target Compounds Qvalue

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

Quant Time: Jul 25 14:23:56 2024
 Quant Method: T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title: EPA 8270D - GC MSD4
 QLast Update: Thu Jul 25 13:58:49 2024
 Response via: Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.738	164	54385753	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.781	240	42781600	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.526	244	63780097	25.54	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	102.16%	

Target Compounds Qvalue

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

Quant Time: Jul 25 14:23:56 2024
 Quant Method: T:\Data1\MSD4\METHODS\2024\TESTCD.M
 Quant Title: EPA 8270D - GC MSD4
 QLast Update: Thu Jul 25 13:58:49 2024
 Response via: Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.738	164	54385753	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.781	240	42781600	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.526	244	63780097	25.54	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	102.16%	

Target Compounds Qvalue

PREPARATION BENCH SHEET

Metals

BEG0543

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BEG0543-BLK1	07/12/24 16:08 - JLG	50	50				
BEG0543-BS1	07/12/24 16:08 - JLG	50	50	2301403		250	
BEG0543-CCV1	07/12/24 16:08 - JLG	50	50	2300159		250	
BEG0543-MS1	07/12/24 16:08 - JLG	50	50	2301403	WEG0469-05	250	
BEG0543-MS2	07/12/24 16:08 - JLG	50	50	2301403	WEG0469-12	250	
BEG0543-MSD1	07/12/24 16:08 - JLG	50	50	2301403	WEG0469-05	250	
BEG0543-MSD2	07/12/24 16:08 - JLG	50	50	2301403	WEG0469-12	250	
WEG0469-01	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-02	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-03	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-04	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-05	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-06	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-07	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-08	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEG0469-09	07/12/24 16:08 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			

PREPARATION BENCH SHEET

Metals

BEG0543

(Continued)

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WEG0469-10	07/12/24 16:08 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							
WEG0469-11	07/12/24 16:08 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							
WEG0469-12	07/12/24 16:08 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							

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

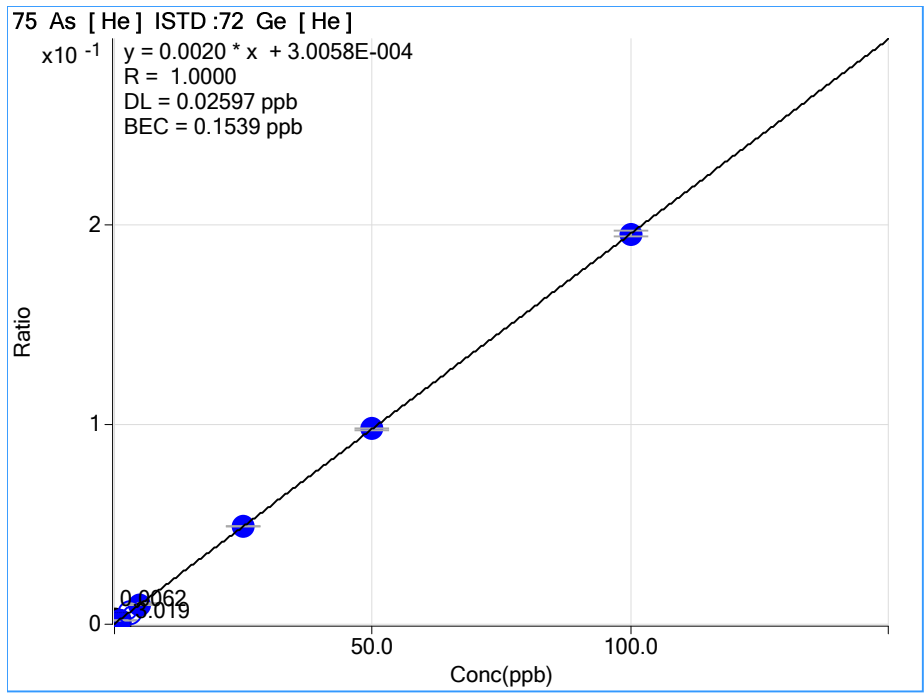
Batch Comments: SAMPLE 6 WAS RAN MUTILAL TIME OVER TWO CALIBRATIONS AND ALWAYS TANKED THE INTERNAL STANDARD.

<u>Reagent ID</u>	<u>Description</u>	<u>LotNum</u>
2303351	P. Metals Digestion Vials	102623
2400754	Metals UHP Helium	155-402885127-1
2401119	Nitric Acid	63117
2401836	C. Internal Standard Mix	-
2402274	C. 10 ppb Tune Solution	-
2402280	P. 1:1 HCl-metals	59072

Batch Prepared By

Date

Analytical Run Date



Sample Report

Sample Name BEG0543-BS1
File Name 041_LCS.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 17:11:26
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
75	As	56.077	He	56.077	72	0.9	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1313187.87	2.2	64.8	2025953.75
Ge	72	He	385071.09	1.2	65.3	589823.706666667
Ge	72	HEHe	152283.56	0.5	64.5	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-BLK1
File Name 040_Blk.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 17:09:07
Sample Type Blank
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.d
Sample QC Pass/Fial Fail
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.289	He	0.289	72	2.7	0,06	>DL*2.2

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1329916.25	3.7	65.6	2025953.75
Ge	72	He	395594.07	1.2	67.1	589823.706666667
Ge	72	HEHe	156999.55	1.5	66.5	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-06
File Name 039SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 17:06:46
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
75	As	2.270	He	2.27	72	2.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1113425.71	3.2	55.0	2025953.75
Ge	72	He	345914.54	2.3	58.6	589823.706666667
Ge	72	HEHe	141300.84	2.7	59.8	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-MSD1
File Name 038LFMD.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 17:04:28
Sample Type LFMdup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
75	As	53.496	He	53.496	72	4.6	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1080499.56	6.3	53.3	2025953.75
Ge	72	He	369156.95	3.5	62.6	589823.706666667
Ge	72	HEHe	147180.97	0.3	62.3	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-MS1
File Name 037_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 17:02:09
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
75	As	62.284	He	62.284	72	1.4	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1116943.46	1.0	55.1	2025953.75
Ge	72	He	376260.65	2.7	63.8	589823.706666667
Ge	72	HEHe	146894.83	0.5	62.2	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-05
File Name 036_ARF.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:59:49
Sample Type AllRef
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
75	As	2.233	He	2.233	72	2.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1257104.54	7.7	62.1	2025953.75
Ge	72	He	389412.85	2.0	66.0	589823.706666667
Ge	72	HEHe	136679.79	1.3	57.9	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-03
File Name 035SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:57:30
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
75	As	3,019	He	3,019	72	2.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1247668.96	2.6	61.6	2025953.75
Ge	72	He	382120.51	1.2	64.8	589823.706666667
Ge	72	HEHe	156826.78	1.8	66.4	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 034_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:55:12
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2088266.67	1.6	103.1	2025953.75
Ge	72	He	596290.65	0.8	101.1	589823.706666667
Ge	72	HEHe	233524.94	0.8	98.8	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCB
File Name 033_CCB.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:52:51
Sample Type CalBlk
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 033_CCB.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
75	As	<0.000	He	-0.008	72	10.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2025953.75	4.2	100.0	2025953.75
Ge	72	He	589823.71	1.2	100.0	589823.706666667
Ge	72	HEHe	236265.40	0.8	100.0	236265.4
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCB
File Name 032_CCB.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:50:33
Sample Type CalBlk
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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas				2374575.58333333
Ge	72	He				694144.433333333
Ge	72	HEHe				275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCV
File Name 031_CCV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:48:15
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
75	As	50.296	He	50.296	72	0.7	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2108770.46	3.7	88.8	2374575.58333333
Ge	72	He	587638.92	1.8	84.7	694144.433333333
Ge	72	HEHe	230989.48	0.7	83.7	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 030_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:45:55
Sample Type RINSE
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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2088494.83	6.1	88.0	2374575.58333333
Ge	72	He	577346.50	1.2	83.2	694144.43333333
Ge	72	HEHe	225342.70	1.3	81.7	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-MSD2
File Name 029LFMD.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:43:37
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
75	As	48.870	He	48.87	72	0.3	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2082395.92	2.6	87.7	2374575.58333333
Ge	72	He	556408.33	1.7	80.2	694144.433333333
Ge	72	HEHe	222935.96	1.7	80.8	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-MS2
File Name 028_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:41:19
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
75	As	49.247	He	49.247	72	0.4	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1971880.38	6.2	83.0	2374575.58333333
Ge	72	He	555584.20	1.5	80.0	694144.433333333
Ge	72	HEHe	226378.59	0.9	82.1	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-12
File Name 027_ARF.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:38:57
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
75	As	0.307	He	0.307	72	4.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2036613.83	2.8	85.8	2374575.58333333
Ge	72	He	555976.42	0.4	80.1	694144.433333333
Ge	72	HEHe	223595.57	1.1	81.1	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-11
File Name 026SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:36:39
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
75	As	0.297	He	0.297	72	4.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1976463.75	1.8	83.2	2374575.58333333
Ge	72	He	565021.92	0.6	81.4	694144.433333333
Ge	72	HEHe	230614.60	0.0	83.6	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-10
File Name 025SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:34:20
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
75	As	5.201	He	5.201	72	0.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2005898.71	4.9	84.5	2374575.58333333
Ge	72	He	563181.71	1.1	81.1	694144.433333333
Ge	72	HEHe	231958.35	1.0	84.1	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-09
File Name 024SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:31:59
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
75	As	0.487	He	0.487	72	1.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2157333.33	1.4	90.9	2374575.58333333
Ge	72	He	577278.90	1.9	83.2	694144.433333333
Ge	72	HEHe	238754.64	1.5	86.6	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-08
File Name 023SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:29:40
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
75	As	1.609	He	1.609	72	2.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1972314.42	4.3	83.1	2374575.58333333
Ge	72	He	552208.80	1.0	79.6	694144.433333333
Ge	72	HEHe	223457.84	1.2	81.0	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-07
File Name 022SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:26:44
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
75	As	1.827	He	1.827	72	1.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1963294.88	3.4	82.7	2374575.58333333
Ge	72	He	549635.14	0.9	79.2	694144.433333333
Ge	72	HEHe	224052.77	1.5	81.2	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-04
File Name 021SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:24:26
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
75	As	25.385	He	25.385	72	0.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1882229.04	4.7	79.3	2374575.58333333
Ge	72	He	545291.92	1.0	78.6	694144.433333333
Ge	72	HEHe	213240.26	1.0	77.3	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-02
File Name 020SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:22:08
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
75	As	0.256	He	0.256	72	5.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2332950.17	2.9	98.2	2374575.58333333
Ge	72	He	644690.62	1.1	92.9	694144.433333333
Ge	72	HEHe	261110.61	0.2	94.7	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEG0469-01
File Name 019SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:19:46
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
75	As	1,242	He	1,242	72	4.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2413022.83	1.1	101.6	2374575.58333333
Ge	72	He	641144.31	1.1	92.4	694144.433333333
Ge	72	HEHe	254926.63	1.3	92.4	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-BS1
File Name 018_LCS.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:17:28
Sample Type LCS
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
75	As	49.061	He	49.061	72	1.3	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2403723.75	3.7	101.2	2374575.58333333
Ge	72	He	653909.89	0.3	94.2	694144.433333333
Ge	72	HEHe	262909.62	0.5	95.3	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-MRL1
File Name 017LICV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:15:09
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
75	As	1,045	He	1,045	72	2.7	1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	2408844.08	1.1	101.4	2374575.58333333
Ge	72	He	693837.82	1.5	100.0	694144.433333333
Ge	72	HEHe	275341.47	1.3	99.8	275847.576666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEG0543-BLK1
File Name 016_Bl.k.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\200.8\Sequences 200.8\07152024 HIGH MATRIX RERUN.b
Acq Time 2024-07-15 16:11:53
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
75	As	0,024	He	0,024	72	12,9	0,06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	2112032.56	1.1		0
Sc	45	No Gas	5964354.17	6.4		0
Sc	45	He	602888.07	0.7		0
Ge	72	No Gas	2431179.75	0.9	102.4	2374575.58333333
Ge	72	He	686419.63	0.1	98.9	694144.433333333
Ge	72	HEHe	268544.47	0.8	97.4	275847.576666667
Rh	103	No Gas	5802443.67	0.7		0
Rh	103	He	4087826.92	0.6		0
Ho	165	No Gas	1342497.46	0.7		0
Ho	165	He	1151955.23	1.2		0

Sample										
	■	Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+	1	<input type="checkbox"/>	001CALB.	2024-07-15 15:37:13	CalBlk	1	Blank		1.0000	1101
+	2	<input type="checkbox"/>	002CALB.	2024-07-15 15:39:31	CalBlk	1	Blank		1.0000	1101
+	3	<input type="checkbox"/>	003CALB.	2024-07-15 15:41:51	CalBlk	1	Blank		1.0000	1101
+	4	<input type="checkbox"/>	004CAL.S.	2024-07-15 15:44:09	CalStd	2	1 ppb cal		1.0000	1103
+	5	<input type="checkbox"/>	005CAL.S.	2024-07-15 15:46:27	CalStd	3	5 ppb cal		1.0000	1104
+	6	<input type="checkbox"/>	006CAL.S.	2024-07-15 15:48:47	CalStd	4	25 ppb cal		1.0000	1105
+	7	<input type="checkbox"/>	007CAL.S.	2024-07-15 15:51:05	CalStd	5	50 ppb cal		1.0000	1106
+	8	<input type="checkbox"/>	008CAL.S.	2024-07-15 15:53:23	CalStd	6	100 ppb cal		1.0000	1107
+	9	<input type="checkbox"/>	009_RIN.d	2024-07-15 15:55:44	RINSE		Rinse		1.0000	4
+	10	<input type="checkbox"/>	010_ICV.d	2024-07-15 15:58:01	ICV		ICV- 40ppb		1.0000	2101
+	11	<input type="checkbox"/>	011_ICV.d	2024-07-15 16:00:19	ICV		ICV- 40ppb		1.0000	2201
+	12	<input type="checkbox"/>	012_LDR.d	2024-07-15 16:02:39	LDR		Daily LDR- 500pp		1.0000	2102
+	13	<input type="checkbox"/>	013_RIN.d	2024-07-15 16:04:57	RINSE		Rinse		1.0000	4
+	14	<input type="checkbox"/>	014_RIN.d	2024-07-15 16:07:15	RINSE		Rinse		1.0000	4
+	15	<input type="checkbox"/>	015_RIN.d	2024-07-15 16:09:35	RINSE		Rinse		1.0000	4
+	16	<input type="checkbox"/>	016_Bl.k.d	2024-07-15 16:11:53	Blank		BEG0543-BLK1		1.0000	3101
+	17	<input type="checkbox"/>	017LICV.d	2024-07-15 16:15:09	LLICV		BEG0543-MRL1		1.0000	3102
+	18	<input type="checkbox"/>	018_LCS.d	2024-07-15 16:17:28	LCS		BEG0543-BS1		1.0000	3103
+	19	<input type="checkbox"/>	019SMPL.	2024-07-15 16:19:46	Sample		WEG0469-01		1.0000	3104
+	20	<input type="checkbox"/>	020SMPL.	2024-07-15 16:22:08	Sample		WEG0469-02		1.0000	3105
+	21	<input type="checkbox"/>	021SMPL.	2024-07-15 16:24:26	Sample		WEG0469-04		1.0000	3107
+	22	<input type="checkbox"/>	022SMPL.	2024-07-15 16:26:44	Sample		WEG0469-07		1.0000	3112
+	23	<input type="checkbox"/>	023SMPL.	2024-07-15 16:29:40	Sample		WEG0469-08		1.0000	3201
+	24	<input type="checkbox"/>	024SMPL.	2024-07-15 16:31:59	Sample		WEG0469-09		1.0000	3202
+	25	<input type="checkbox"/>	025SMPL.	2024-07-15 16:34:20	Sample		WEG0469-10		1.0000	3203

Sample										
	<input type="checkbox"/>	Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+	26	<input type="checkbox"/>	026SMPL.	2024-07-15 16:36:39	Sample		WEG0469-11		1.0000	3204
+	27	<input type="checkbox"/>	027_ARF.d	2024-07-15 16:38:57	AllRef		WEG0469-12		1.0000	3205
+	28	<input type="checkbox"/>	028_LFM.d	2024-07-15 16:41:19	LFM		BEG0543-MS2		1.0000	3206
+	29	<input type="checkbox"/>	029LFMD.	2024-07-15 16:43:37	LFMDup		BEG0543-MSD2		1.0000	3207
+	30	<input type="checkbox"/>	030_RIN.d	2024-07-15 16:45:55	RINSE		Rinse		1.0000	4
+	31	<input type="checkbox"/>	031_CCV.	2024-07-15 16:48:15	CCV		CCV		1.0000	1106
+	32	<input checked="" type="checkbox"/>	032_CCB.	2024-07-15 16:50:33	CalBlk		CCB		1.0000	1101
+	33	<input type="checkbox"/>	033_CCB.	2024-07-15 16:52:51	CalBlk		CCB		1.0000	1101
+	34	<input type="checkbox"/>	034_RIN.d	2024-07-15 16:55:12	RINSE		Rinse		1.0000	5
+	35	<input checked="" type="checkbox"/>	035SMPL.	2024-07-15 16:57:30	Sample		WEG0469-03		1.0000	3106
+	36	<input checked="" type="checkbox"/>	036_ARF.d	2024-07-15 16:59:49	AllRef		WEG0469-05		1.0000	3108
+	37	<input checked="" type="checkbox"/>	037_LFM.d	2024-07-15 17:02:09	LFM		BEG0543-MS1		1.0000	3109
+	38	<input checked="" type="checkbox"/>	038LFMD.	2024-07-15 17:04:28	LFMDup		BEG0543-MSD1		1.0000	3110
+	39	<input checked="" type="checkbox"/>	039SMPL.	2024-07-15 17:06:46	Sample		WEG0469-06		1.0000	3111
+	40	<input checked="" type="checkbox"/>	040_Blk.d	2024-07-15 17:09:07	Blank		BEG0543-BLK1		1.0000	3208
+	41	<input checked="" type="checkbox"/>	041_LCS.d	2024-07-15 17:11:26	LCS		BEG0543-BS1		1.0000	3209
+	42	<input checked="" type="checkbox"/>	042_RIN.d	2024-07-15 17:13:44	RINSE		Rinse		1.0000	4
+	43	<input checked="" type="checkbox"/>	043_CCV.	2024-07-15 17:16:04	CCV		CCV		1.0000	1106
+	44	<input type="checkbox"/>	044_CCB.	2024-07-15 17:18:22	CCB		CCB		1.0000	1101
+	45	<input type="checkbox"/>	045_RIN.d	2024-07-15 17:20:40	RINSE		Rinse		1.0000	5
+	46	<input type="checkbox"/>	046_RIN.d	2024-07-15 17:23:00	RINSE		Rinse		1.0000	4
+	47	<input type="checkbox"/>	047_CCV.	2024-07-15 17:26:15	CCV		CCV		1.0000	1106
+	48	<input type="checkbox"/>	048_CCB.	2024-07-15 17:29:29	CCB		CCB		1.0000	1101
+	49	<input type="checkbox"/>	049_RIN.d	2024-07-15 17:32:44	RINSE		Rinse		1.0000	5
+	50	<input type="checkbox"/>	050_RIN.d	2024-07-15 17:36:01	RINSE		Rinse		1.0000	5

Sample										
	<input checked="" type="checkbox"/>	Rjct	Data File	Acq. Date-Time /	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
51	<input type="checkbox"/>		051_RIN.d	2024-07-15 17:39:16	RINSE		Rinse		1.0000	5

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

Report Number: P241282
Report Date: August 08, 2024
Client Project ID: WEG0469

Analytical Report

Client Sample ID: WW-3
Matrix: water

PAL Sample ID: P241282-01
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: E-2
Matrix: water

PAL Sample ID: P241282-02
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: E-1
Matrix: water

PAL Sample ID: P241282-03
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: E-1 DUP
Matrix: water

PAL Sample ID: P241282-04
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3



Daniel Miller, Laboratory Manager

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



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

Report Number: P241282
Report Date: August 08, 2024
Client Project ID: WEG0469

Analytical Report

Client Sample ID: E-1 Dup
Matrix: water

PAL Sample ID: P241282-05
Sample Date: 7/8/24
Received Date: 7/12/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
8/06/24	8/6/24	Paraquat	ND	10 ug/L	H3

Daniel Miller, Laboratory Manager

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

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

Report Number: P241282
Report Date: August 08, 2024
Client Project ID: WEG0469

Quality Assurance

Method Blank Data Matrix: water


Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
8/6/24	8/6/24	24H0604-BLK1	Paraquat	Not Detected	< 10 ug/L	

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
8/6/24	8/6/24	24H0604-BS1	Paraquat	98	60-140	
8/6/24	8/6/24	24H0604-BSD1	Paraquat	102	60-140	

Project Notes

Notes	Definition
H3	The sample was analyzed outside of recommended hold time.



Daniel Miller, Laboratory Manager

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

Acute Toxicity Test Results for ADC Kekaha Dry Weather Water Quality Monitoring

Monitoring Period: July 2024

Prepared for: Stantec
737 Bishop St., Suite 3050
Honolulu, HI 96734

Testing Lab: Enthalpy Analytical
4340 Vandever Avenue
San Diego, CA 92120

Submitted: August 20, 2024

Data Quality Assurance:

- Enthalpy Analytical (formerly Nautilus Environmental) is accredited in accordance with NELAP by the State of Oregon Environmental Laboratory Accreditation Program (Certificate No. 4053). It is also certified by the State of California Department of Health Services Environmental Laboratory Accreditation Program (Certificate No. 1802) and the State of Washington Department of Ecology (Lab ID C552).
- All data have been reviewed and verified.
- All test results have met minimum test acceptability criteria under their respective EPA protocols, unless otherwise noted in this report.
- All results have met internal Quality Assurance Program requirements, unless otherwise noted in this report.

Data Verified by:



Barbara Orelo, Project Manager

Introduction

Two samples were collected during a dry weather event for the ADC Kekaha Water Quality Monitoring. Samples were submitted by Stantec. Testing was conducted at the Enthalpy Analytical Laboratory in San Diego, California. Pacific topsmelt (*Atherinops affinis*), inland silverside (*Menidia beryllina*), and mysid shrimp (*Americamysis bahia*) 96-hour acute survival tests were used for the WW-2 sample. Fathead minnow (*Pimephales promelas*), water flea (*Ceriodaphnia dubia*), and freshwater amphipod (*Hyalella azteca*) 96-hour acute survival tests were used for the WW-3 sample.

Materials and Methods

Sample Information

Client: Stantec
 Project Name: ADC Kekaha Water Quality Monitoring
 Sample IDs: 1. WW-2
 2. WW-3
 Sample Collection Dates, Times^a: 1. 7/8/24, 12:45
 2. 7/8/24, 13:00
 Sample Receipt Dates, Times: 7/9/24, 10:15
 Sample Material: Dry weather sample
 Sampling Method: Grab

^a Collection times adjusted to Pacific Daylight Time from Hawaii Standard Time.

Table 1. Water Quality Parameters Measured upon Sample Receipt

Sample ID	pH	DO (mg/L)	Temp. (°C)	Cond. (µS/cm)	Salinity (ppt)	Alkalinity (mg/L as CaCO ₃)	Hardness (mg/L as CaCO ₃)	Total Chlorine (mg/L)
WW-2	7.42	5.6	6.0	nm	31.0	154	nm	<0.02
WW-3	7.93	7.5	4.1	1634	0.9	187	300	0.02

nm = not measured

Acute Toxicity Test Methods

Testing was conducted in accordance with methods published in US Environmental Protection Agency (USEPA) guidance (2002). Test specifications for all marine tests are summarized in Table 2, and test specifications for freshwater tests are summarized in Table 3.

Table 2. 96-hr Acute Survival Test Specifications - Marine Organisms

Pacific topsmelt test: 7/10/24, 16:15 to 7/14/24, 16:35	Species: <i>Atherinops affinis</i> . Source & Age: Aquatic Biosystems (Ft. Collins, CO), 14 days
Inland silverside test: 7/10/24, 16:35 to 7/14/24, 16:30	Species: <i>Menidia beryllina</i> . Source & Age: Aquatic Indicators (St. Augustine, FL), 10 days
Mysid shrimp test: 7/10/24, 16:25 to 7/14/24, 16:25	Species: <i>Americamysis bahia</i> . Source & Age: Aquatic Biosystems (Ft. Collins, CO), 4 days
Protocol Used:	Acute Manual (EPA/821/R-02/012), EPA 2002
Test Acceptability Criteria:	Control mean survival \geq 90%
Test Concentration:	100% sample (WW-2)
Lab Control Water:	20- μ m filtered seawater (Source: Scripps Institution of Oceanography [SIO] Intake); diluted to 30 ppt with deionized water

Table 3. 96-hr Acute Survival Test Specifications – Freshwater Organisms

Fathead minnow test: 7/10/24, 16:10 to 7/14/24, 16:45	Species: <i>Pimephales promelas</i> . Source & Age: Aquatic Biosystems (Ft. Collins, CO), 6 days
Water flea test: 7/10/24, 14:40 to 7/14/24, 13:55	Species: <i>Ceriodaphnia dubia</i> . Source & Age: Internal culture, < 24 hours
Freshwater amphipod test: 7/10/24, 16:00 to 7/14/24, 16:45	Species: <i>Hyalella azteca</i> . Source & Age: Aquatic Research Organisms (Hampton, NH), 13 days
Protocol Used:	Acute Manual (EPA/821/R-02/012), EPA 2002
Test Acceptability Criteria:	Control mean survival \geq 90%
Test Concentration:	100% sample (WW-3)
Lab Control Water:	Diluted mineral water (per EPA protocol) for <i>P. promelas</i> and <i>C. dubia</i> ; Carbon-filtered water (CFW) for <i>H. azteca</i>

Statistical Analyses

Statistical analyses were conducted using EPA flowchart specifications as outlined in the test guidance manual (USEPA 2002). Organism performance in the sample was compared to that observed in the concurrent lab control. Results were used to calculate whether a statistically significant effect was observed between the control and sample result. Comprehensive Environmental Toxicity Information System™ (CETIS) software by Tidepool Scientific Software, version 2.1.4.11.

Results

No statistically significant effects were observed to any species that were exposed the WW-2 sample compared to the respective lab controls. A summary of results for the marine species tests is presented in Table 4.

No statistically significant effects were observed to any species that were exposed the WW-3 sample compared to the respective lab controls. A summary of results for the freshwater tests is presented in Table 5.

Raw datasheets and complete statistical summaries for all tests are provided in Appendix A. Sample receipt information is provided in Appendix B, and a copy of the chain of custody form is presented in Appendix C.

Table 4. Summary of Marine 96-hr Acute Survival Results

Sample ID	Species	Lab Control Result	100% Sample Result	Statistically Significant Effect? (Yes/No)	Percent Effect
WW-2	Pacific topsmelt	100	95.0	No	5.0
	Inland silverside	95.0	100	No	-5.3
	Mysid shrimp	100	100	No	0.0

Percent effect from control is calculated as: ((mean response in lab control - mean response in undiluted sample)/mean response in lab control) *100. A negative value results when organism performance in the sample is greater than that in the lab control.

Table 5. Summary of Freshwater 96-hr Acute Survival Results

Sample ID	Species	Lab Control Result	100% Sample Result	Statistically Significant Effect? (Yes/No)	Percent Effect
WW-3	Fathead minnow	97.5	97.5	No	0.0
	Water Flea	100	100	No	0.0
	Freshwater amphipod	97.5	100	No	-2.6

Percent effect from control is calculated as: ((mean response in lab control - mean response in undiluted sample)/mean response in lab control) *100. A negative value results when organism performance in the sample is greater than that in the lab control.

Quality Assurance

The samples were received via overnight delivery service the day after collection and within the range of 0-6 degrees Celsius (°C). The tests were initiated within the maximum allowable holding time of 72 hours.

Mean control responses met minimum acceptability criteria for all tests. Minor QA issues that were unlikely to have any bearing on the final test data, such as slight temperature deviations, are noted on the datasheets, and a list of laboratory qualifier codes can be found in Appendix D.

Reference Toxicant Testing

Results for reference toxicant testing used to monitor laboratory performance and test organism sensitivity are summarized in Table 6. The reference toxicant tests for all species tested met all acceptability criteria. The median effect concentration value (EC₅₀) was within two standard deviations of the historical mean for all endpoints, indicating organisms exhibited typical sensitivity as historically observed in our laboratory. The control charts for the previous 20 reference toxicant tests are presented in Appendix E.

Table 6. Summary of 96-hr Acute Survival Reference Toxicant Test Results

Species	NOEC (µg/L copper)	LC₅₀ (µg/L copper)	Historical LC₅₀ ± 2 SD (µg/L copper)	CV (%)
Pacific Topsmelt	200	229	177 ± 103	29.1
Inland Silverside	100	140	173 ± 87.7	25.3
Mysid Shrimp	200	225	207 ± 77.4	18.7
Fathead Minnow	30	89.9	69.9 ± 73.7	52.7
Water Flea	5	8.76	17.7 ± 12.3	34.8
Freshwater Amphipod	100	336	451 ± 277	30.7

NOEC = the highest concentration tested that results in no observed effect

LC₅₀ = the concentration expected to cause a lethal effect to 50 percent of the test organisms

Historical LC₅₀ ± 2 SD = the mean LC₅₀ from the previous 20 tests performed by Enthalpy, plus or minus two standard deviations

CV = Coefficient of Variation

References

Tidepool Scientific Software. 2000-2022. CETIS Comprehensive Environmental Toxicity Information System Software, Version 2.1.4.11.

USEPA. 2002. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition. EPA/821/R-02/012. US EPA Office of Water, Washington, DC.

Appendix A

Raw Data and Statistical Summaries

WW-2

CETIS Summary Report

Report Date: 19 Aug-24 11:50 (p 1 of 1)
 Test Code/ID: 2407-S230 / 13-4699-0578

Pacific Topsmelt 96-h Acute Survival Test

Nautilus Environmental (CA)

Batch ID: 12-3728-9343	Test Type: Survival (96h)	Analyst:
Start Date: 10 Jul-24 16:15	Protocol: EPA/821/R-02-012 (2002)	Diluent: Not Applicable
Ending Date: 14 Jul-24 16:35	Species: Atherinops affinis	Brine: Not Applicable
Test Length: 4d 0h	Taxon:	Source: Aquatic Biosystems, CO Age: 14d
Sample ID: 12-5870-4253	Code: 24-0772	Project: ADC Kekaha WQ Monitoring
Sample Date: 08 Jul-24 12:45 ^{PPT}	Material: Dry Weather Sample	Source: Stantec
Receipt Date: 09 Jul-24 10:15 ^{PPT}	CAS (PC):	Station: WW-2
Sample Age: 52h (6 °C)	Client: Stantec	

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
01-5333-9869	96h Survival Rate	Wilcoxon Rank Sum Two-Sample Test	0.5000	100% passed 96h survival rate	1

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
01-5333-9869	96h Survival Rate	Control Resp	1	0.9	<<	Yes	Passes Criteria

96h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LC	4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	0.00%
100		4	0.950	0.791	1.110	0.800	1.000	0.050	0.100	10.53%	5.00%

96h Survival Rate Detail

MD5: E123C782296427559F3BCFFA608E98B3

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LC	1.000	1.000	1.000	1.000
100		1.000	0.800	1.000	1.000

CETIS Analytical Report

Report Date: 19 Aug-24 10:55 (p 1 of 1)
 Test Code/ID: 2407-S230 / 13-4699-0578

Pacific Topsmelt 96-h Acute Survival Test			Nautilus Environmental (CA)		
Analysis ID: 01-5333-9869	Endpoint: 96h Survival Rate	CETIS Version: CETISv2.1.4			
Analyzed: 19 Aug-24 10:55	Analysis: Nonparametric-Two Sample	Status Level: 1			
Edit Date: 19 Aug-24 10:55	MD5 Hash: E123C782296427559F3BCFFA608E98B3	Editor ID: 000-502-715-6			

Data Transform	Alt Hyp	Comparison Result	PMSD
Angular (Corrected)	C > T	100% passed 96h survival rate endpoint	11.20%

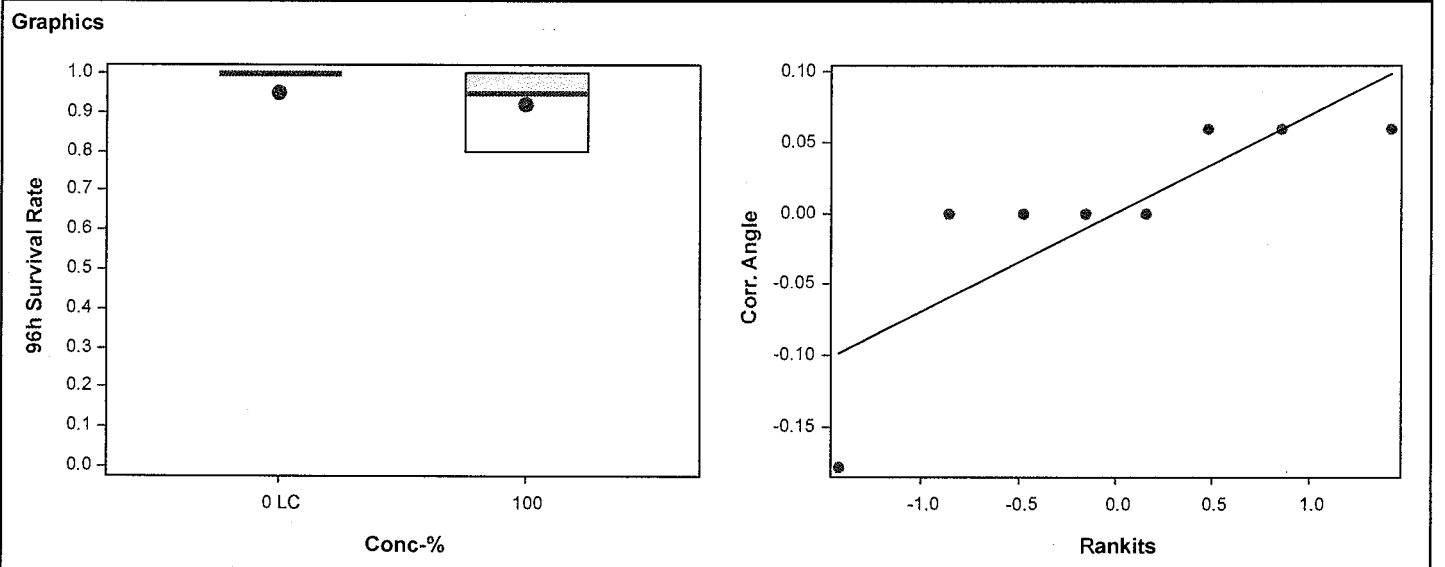
Wilcoxon Rank Sum Two-Sample Test									
Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Lab Control		100	6	16	---	1	Exact	0.5000	Non-Significant Effect

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0070885	0.0070885	1	1	0.3559	Non-Significant Effect
Error	0.0425309	0.0070885	6			
Total	0.0496194		7			

ANOVA Assumptions Tests						
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)	
Variance	Variance Ratio F Test				Indeterminate	
Distribution	Shapiro-Wilk W Normality Test	0.706	0.645	0.0027	Non-Normal Distribution	

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	0.00%
100		4	0.950	0.791	1.000	1.000	0.800	1.000	0.050	10.53%	5.00%

Angular (Corrected) Transformed Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.350	1.340	1.350	1.350	1.350	1.350	0.000	0.00%	0.00%
100		4	1.290	1.100	1.480	1.350	1.110	1.350	0.060	9.26%	4.43%



Client: Stantec / ADC Kekaha

Test Species: A. affinis

Sample ID: WW-2

Start Date/Time: 7/10/24 1015

Sample Log-in No.: 24-0772

End Date/Time: 7/14/24 1635

Test No.: 2408-5230 (B)
2407-5230

Tech Initials				
0	24	48	72	96
Counts: <u>WF</u>	<u>FM</u>	<u>WF</u>	<u>LM</u>	<u>GM</u>
Readings: <u>RT</u>	<u>FM</u>	<u>MW</u>	<u>LM</u>	<u>FM</u>
Dilutions made by: <u>GM</u>		<u>HM</u>		

Concentration (%)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Salinity (ppt)					Temperature (°C)				
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96
Lab Control	A	5	5	5	5	5	8.00	7.93	7.94	7.97	8.00	7.6	7.3	7.5	7.0	7.2	29.5	30.4	29.3	29.3	28.8	20.0	19.5	19.4	21.0	20.0
	B	5	5	5	5	5			7.94					7.3					31.0					19.8		
	C	5	5	5	5	5																				
	D	5	5	5	5	5																				
100%	A	5	5	5	5	5	7.57	8.00	7.36	7.11	8.15	6.4	7.2	6.2	7.1	7.2	30.9	31.7	31.2	31.3	31.7	20.4	19.5	19.6	21.0	20.0
	B	5	5	5	5	4			8.08					7.3					31.9					19.7		
	C	5	5	5	5	5																				
	D	5	5	5	5	5																				
	A																									
	B																									
	C																									
	D																									
	A																									
	B																									
	C																									
	D																									
	A																									
	B																									
	C																									
	D																									

Initial Counts QC'd by: WF
 Initiated by: KC

Environmental Chamber: C

Animal Source/Date Received: ABS 7/9/24 Age at Initiation: 14d

Animal Acclimation Qualifiers (circle all that apply): Q22 / Q23 / Q24 / none

Comments: i = initial reading in fresh test solution, f = final reading in test chamber prior to renewal

Organisms fed prior to initiation, circle one (y/n) Q22 Q23 WF 7/12/24 GM 8/19/24
Q24 KL 8/19/24

QC Check: GM 8/19/24

Final Review: KL 8/19/24 / ABS 8/19/24

Feeding Times				
0	24	48	72	96
AM:	<u>0730</u>	<u>0740</u>	<u>0750</u>	<u>0805</u>
PM:	<u>1700</u>			

CETIS Summary Report

Report Date: 19 Aug-24 11:49 (p 1 of 1)
 Test Code/ID: 2407-S231 / 15-0564-4916

Inland Silverside 96-h Acute Survival Test

Nautilus Environmental (CA)

Batch ID: 17-2287-7527	Test Type: Survival (96h)	Analyst:
Start Date: 10 Jul-24 16:35	Protocol: EPA/821/R-02-012 (2002)	Diluent: Not Applicable
Ending Date: 14 Jul-24 16:30	Species: Menidia beryllina	Brine: Not Applicable
Test Length: 96h	Taxon:	Source: Aquatic Indicators, FL Age: 10d

Sample ID: 20-5731-2312	Code: 24-0772	Project: ADC Kekaha WQ Monitoring
Sample Date: 08 Jul-24 12:45 <i>PVT</i>	Material: Dry Weather Sample	Source: Stantec
Receipt Date: 09 Jul-24 10:15 <i>PVT</i>	CAS (PC):	Station: WW-2
Sample Age: 52h (6 °C)	Client: Stantec	

Single Comparison Summary					
Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
17-0221-6689	96h Survival Rate	Wilcoxon Rank Sum Two-Sample Test	1.0000	100% passed 96h survival rate	1

Test Acceptability							
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
17-0221-6689	96h Survival Rate	Control Resp	0.95	0.9	<<	Yes	Passes Criteria

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LC	4	0.950	0.791	1.110	0.800	1.000	0.050	0.100	10.53%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	-5.26%

96h Survival Rate Detail						MD5: 38C5B405067C4B19EA662DDB147B72DC
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	
0	LC	1.000	1.000	1.000	0.800	
100		1.000	1.000	1.000	1.000	

CETIS Analytical Report

Report Date: 19 Aug-24 10:48 (p 1 of 1)
 Test Code/ID: 2407-S231 / 15-0564-4916

Inland Silverside 96-h Acute Survival Test			Nautilus Environmental (CA)		
Analysis ID: 17-0221-6689	Endpoint: 96h Survival Rate	CETIS Version: CETISv2.1.4			
Analyzed: 19 Aug-24 10:37	Analysis: Nonparametric-Two Sample	Status Level: 1			
Edit Date: 19 Aug-24 10:37	MD5 Hash: 38C5B405067C4B19EA662DDB147B72DC	Editor ID: 000-502-715-6			

Data Transform	Alt Hyp	Comparison Result	PMSD
Angular (Corrected)	C > T	100% passed 96h survival rate endpoint	10.75%

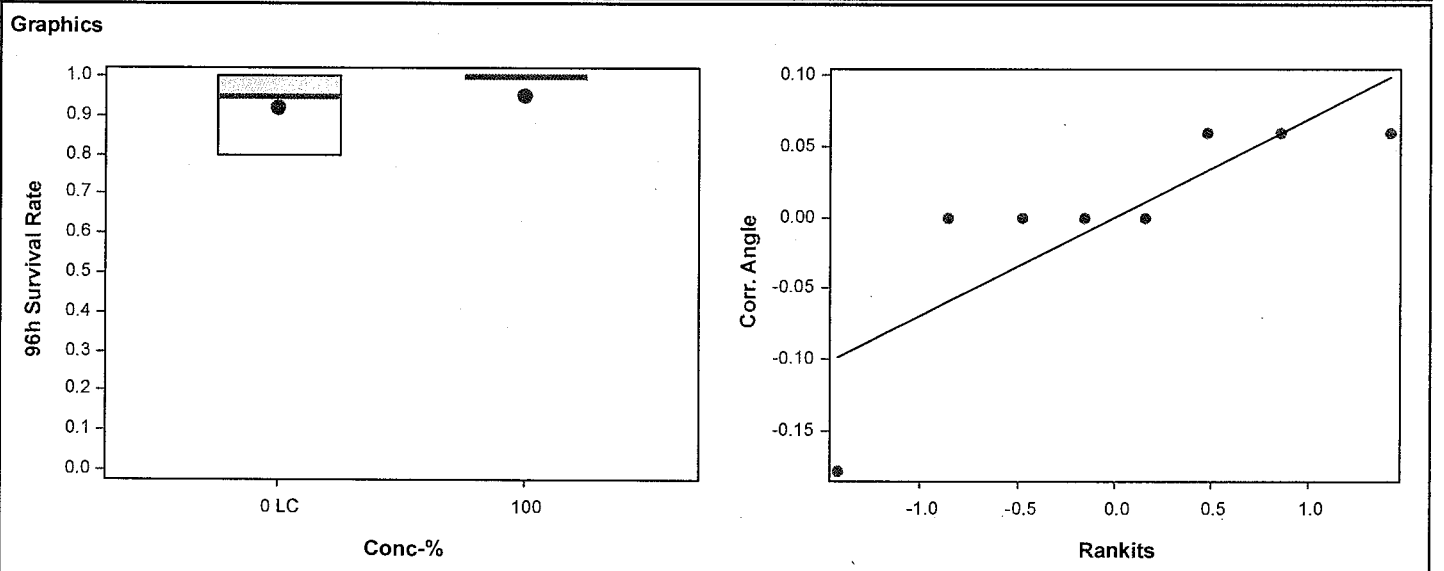
Wilcoxon Rank Sum Two-Sample Test									
Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Lab Control		100	6	20	---	1	Exact	1.0000	Non-Significant Effect

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0070885	0.0070885	1	1	0.3559	Non-Significant Effect
Error	0.0425309	0.0070885	6			
Total	0.0496194		7			

ANOVA Assumptions Tests						
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)	
Variance	Variance Ratio F Test				Indeterminate	
Distribution	Shapiro-Wilk W Normality Test	0.706	0.645	0.0027	Non-Normal Distribution	

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	0.950	0.791	1.000	1.000	0.800	1.000	0.050	10.53%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	-5.26%

Angular (Corrected) Transformed Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.290	1.100	1.480	1.350	1.110	1.350	0.060	9.26%	0.00%
100		4	1.350	1.340	1.350	1.350	1.350	1.350	0.000	0.00%	-4.63%



Client: Stantec / ADC Kekaha

Test Species: M. beryllina

Sample ID: WW-2

Start Date/Time: 7/10/24 1635

Sample Log-In No.: 24-0772

End Date/Time: 7/14/24 1630

Test No.: 2407-5231

Tech Initials				
0	24	48	72	96
RT	FM	WF	LM	GM
RT	FM	MK	WJ	FM
GM		HH		

Counts:

Readings:

Dilutions made by:

Concentration (%)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Salinity (ppt)					Temperature (°C)				
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96
Lab Control	A	5	5	5	5	5	7.89	8.00	7.89	7.95	8.03	6.5	6.4	6.9	6.8	6.9	30.1	30.1	30.0	30.3	31.1	24.2	24.4	24.1	24.7	24.7
	B	5	5	5	5	5			7.96					6.7					31.0					24.5		
	C	5	5	5	5	5																				
	D	5	5	4	4	4															32.7					
100%	A	5	5	5	5	5	7.57	8.12	7.38	8.10	8.17	6.0	6.5	7.4	6.8	4.8	30.9	31.7	31.4	31.8	32.9	24.2	24.7	24.5	24.5	24.5
	B	5	5	5	5	5			8.12					6.6					32.2					24.5		
	C	5	5	5	5	5																				
	D	5	5	5	5	5																				
	A																									
	B																									
	C																									
	D																									
	A																									
	B																									
	C																									
	D																									
	A																									
	B																									
	C																									
	D																									

Initial Counts QC'd by: ADDIE
 Initiated by: RT 7/10/24

Environmental Chamber: A

Animal Source/Date Received: A1 / 7/9/24 Age at Initiation: 10 days

Animal Acclimation Qualifiers (circle all that apply): Q22 Q23 Q24 / none

Comments: i = initial reading in fresh test solution, f = final reading in test chamber prior to renewal
 Organisms fed prior to initiation, circle one (y n)

Feeding Times				
0	24	48	72	96
AM:	0730	0740	0745	0825
PM:	1700			

QC Check: GM 8/19/24

Final Review: VA 8/19/24 / AS 8/19/24

CETIS Summary Report

Report Date: 19 Aug-24 11:50 (p 1 of 1)
 Test Code/ID: 2407-S232 / 20-0298-9100

Mysid 96-h Acute Survival Test

Nautilus Environmental (CA)

Batch ID: 08-2647-6003	Test Type: Survival (96h)	Analyst:
Start Date: 10 Jul-24 16:25	Protocol: EPA/821/R-02-012 (2002)	Diluent: Not Applicable
Ending Date: 14 Jul-24 16:25	Species: Americamysis bahia	Brine: Not Applicable
Test Length: 96h	Taxon:	Source: Aquatic Biosystems, CO Age: 4d
Sample ID: 16-9932-0756	Code: 24-0772	Project: ADC Kekaha WQ Monitoring
Sample Date: 08 Jul-24 12:45 PPT	Material: Dry Weather Sample	Source: Stantec
Receipt Date: 09 Jul-24 10:15 PPT	CAS (PC):	Station: WW-2
Sample Age: 52h (6 °C)	Client: Stantec	

Single Comparison Summary					
Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
17-7521-4059	96h Survival Rate	Wilcoxon Rank Sum Two-Sample Test	1.0000	100% passed 96h survival rate	1

Test Acceptability							
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
17-7521-4059	96h Survival Rate	Control Resp	1	0.9	<<	Yes	Passes Criteria

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LC	4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	0.00%

96h Survival Rate Detail						MD5: 02835A6FE1710696B7C8F79EC2C22377
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	
0	LC	1.000	1.000	1.000	1.000	
100		1.000	1.000	1.000	1.000	

CETIS Analytical Report

Report Date: 19 Aug-24 10:47 (p 1 of 1)
 Test Code/ID: 2407-S232 / 20-0298-9100

Mysid 96-h Acute Survival Test			Nautilus Environmental (CA)		
Analysis ID: 17-7521-4059	Endpoint: 96h Survival Rate	CETIS Version: CETISv2.1.4			
Analyzed: 19 Aug-24 10:46	Analysis: Nonparametric-Two Sample	Status Level: 1			
Edit Date: 19 Aug-24 10:45	MD5 Hash: 02835A6FE1710696B7C8F79EC2C22377	Editor ID: 000-502-715-6			

Data Transform	Alt Hyp	Comparison Result
Angular (Corrected)	C > T	100% passed 96h survival rate endpoint

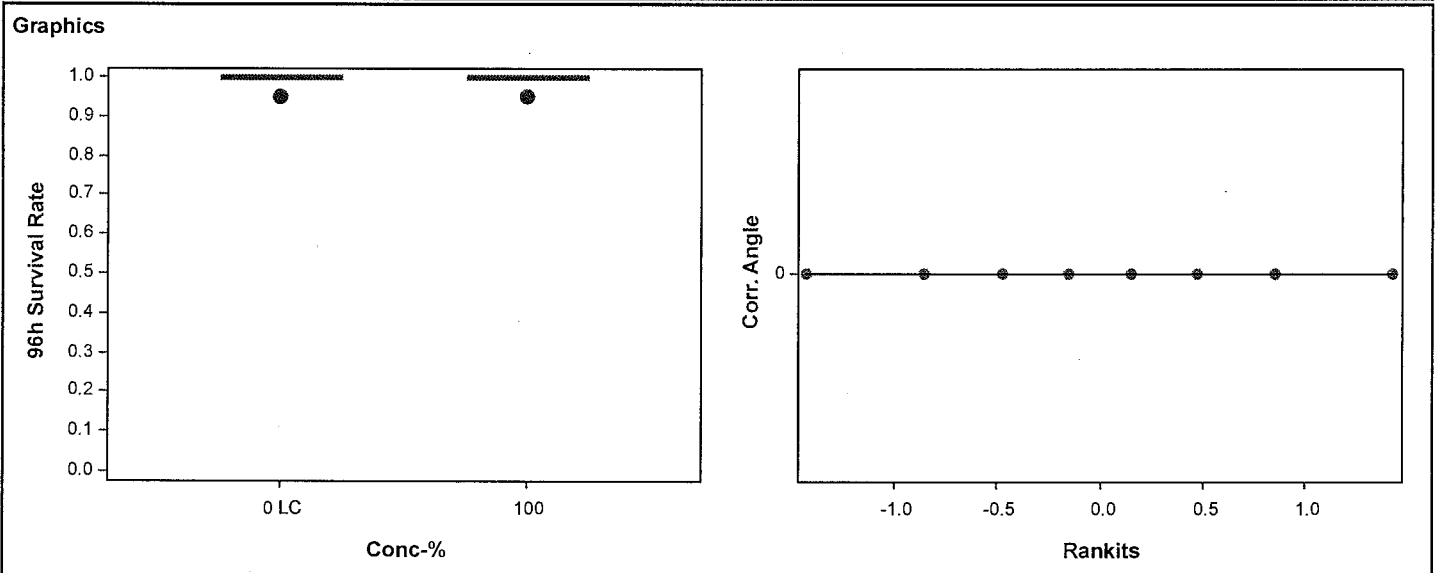
Wilcoxon Rank Sum Two-Sample Test									
Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Lab Control		100	6	18	---	1	Exact	1.0000	Non-Significant Effect

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0	0	1			Indeterminate
Error	0	0	6			
Total	0		7			

ANOVA Assumptions Tests					
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Variance Ratio F Test				Indeterminate
Distribution	Shapiro-Wilk W Normality Test				Indeterminate

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	0.00%

Angular (Corrected) Transformed Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.350	1.340	1.350	1.350	1.350	1.350	0.000	0.00%	0.00%
100		4	1.350	1.340	1.350	1.350	1.350	1.350	0.000	0.00%	0.00%



Client: Stantec/ ADC Kekaha

Test Species: A. bahia

Sample ID: WW-2

Start Date/Time: 7/10/24 1625

Sample Log-in No.: 24-0772

End Date/Time: 7/14/24 1625

Test No.: 2407-5232

Tech Initials				
0	24	48	72	96
Counts: RT	FM	WK	LM	SM
Readings: RT	FM	MK	LM	FM
Dilutions made by: GM		HH		

Concentration (%)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Salinity (ppt)					Temperature (°C)					
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
Lab Control	A	5	5	5	5	5	7.89	7.98	7.91	7.97	8.00	6.5	6.6	7.0	6.9	6.9	30.1	30.8	29.9	30.0	30.9	24.2	24.5	24.2	24.8	24.8	
	B	5	5	5	5	5			7.98					6.5					31.0					24.6			
	C	5	5	5	5	5																					
	D	5	5	5	5	5																					
100%	A	5	5	5	5	5	7.63	8.09	7.34	8.11	8.16	6.4	6.4	6.2	6.9	6.9	30.9	31.7	31.2	31.7	32.7	24.2	24.7	24.5	24.7	24.6	
	B	5	5	5	5	5			8.10					6.6					32.2					24.5			
	C	5	5	5	5	5																					
	D	5	5	5	5	5																					
	A	5																									
	B	5																									
	C	5																									
	D	5																									
	A	5																									
	B	5																									
	C	5																									
	D	5																									
	A	5																									
	B	5																									
	C	5																									
	D	5																									

Initial Counts QC'd by: GM
 Initiated by: RT

Environmental Chamber: A

Animal Source/Date Received: ABS/7/10/24 Age at Initiation: 4 days

Animal Acclimation Qualifiers (circle all that apply): Q22 / Q23 / Q24 / none

Feeding Times				
0	24	48	72	96
AM: 0730	0740	0750	0815	
PM: 1700	1715	1730	1630	-

Comments: i = initial reading in fresh test solution, f = final reading in test chamber prior to renewal
 Organisms fed prior to initiation, circle one (y n)

QC Check: GM 8/19/24

Final Review: KL 8/19/24 / MCS 8/19/24

WW-3

CETIS Summary Report

Report Date: 19 Aug-24 11:51 (p 1 of 1)
 Test Code/ID: 2407-S236 / 17-8161-9218

Fathead Minnow 96-h Acute Survival Test

Nautilus Environmental (CA)

Batch ID: 19-8560-5723	Test Type: Survival (96h)	Analyst:
Start Date: 10 Jul-24 16:10	Protocol: EPA/821/R-02-012 (2002)	Diluent: Not Applicable
Ending Date: 14 Jul-24 16:45	Species: Pimephales promelas	Brine: Not Applicable
Test Length: 4d 1h	Taxon:	Source: Aquatic Biosystems, CO Age: 6d
Sample ID: 11-5474-1935	Code: 24-0773	Project: ADC Kekaha WQ Monitoring
Sample Date: 08 Jul-24 13:00 PDT	Material: Dry Weather Sample	Source: Stantec
Receipt Date: 09 Jul-24 10:15 PDT	CAS (PC):	Station: WW-3
Sample Age: 51h (4.1 °C)	Client: Stantec	

Single Comparison Summary					
Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
11-0398-7665	96h Survival Rate	Wilcoxon Rank Sum Two-Sample Test	0.7857	100% passed 96h survival rate	1

Test Acceptability							
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
11-0398-7665	96h Survival Rate	Control Resp	0.975	0.9	<<	Yes	Passes Criteria

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LC	4	0.975	0.895	1.050	0.900	1.000	0.025	0.050	5.13%	0.00%
100		4	0.975	0.895	1.050	0.900	1.000	0.025	0.050	5.13%	0.00%

96h Survival Rate Detail						MD5: A1C3283037582165A7C7B7B397614628
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	
0	LC	1.000	1.000	1.000	0.900	
100		1.000	1.000	1.000	0.900	

CETIS Analytical Report

Report Date: 19 Aug-24 11:12 (p 1 of 1)
 Test Code/ID: 2407-S236 / 17-8161-9218

Fathead Minnow 96-h Acute Survival Test			Nautilus Environmental (CA)		
Analysis ID: 11-0398-7665	Endpoint: 96h Survival Rate	CETIS Version: CETISv2.1.4			
Analyzed: 19 Aug-24 11:12	Analysis: Nonparametric-Two Sample	Status Level: 1			
Edit Date: 19 Aug-24 11:11	MD5 Hash: A1C3283037582165A7C7B7B397614628	Editor ID: 000-502-715-6			

Data Transform	Alt Hyp	Comparison Result	PMSD
Angular (Corrected)	C > T	100% passed 96h survival rate endpoint	7.07%

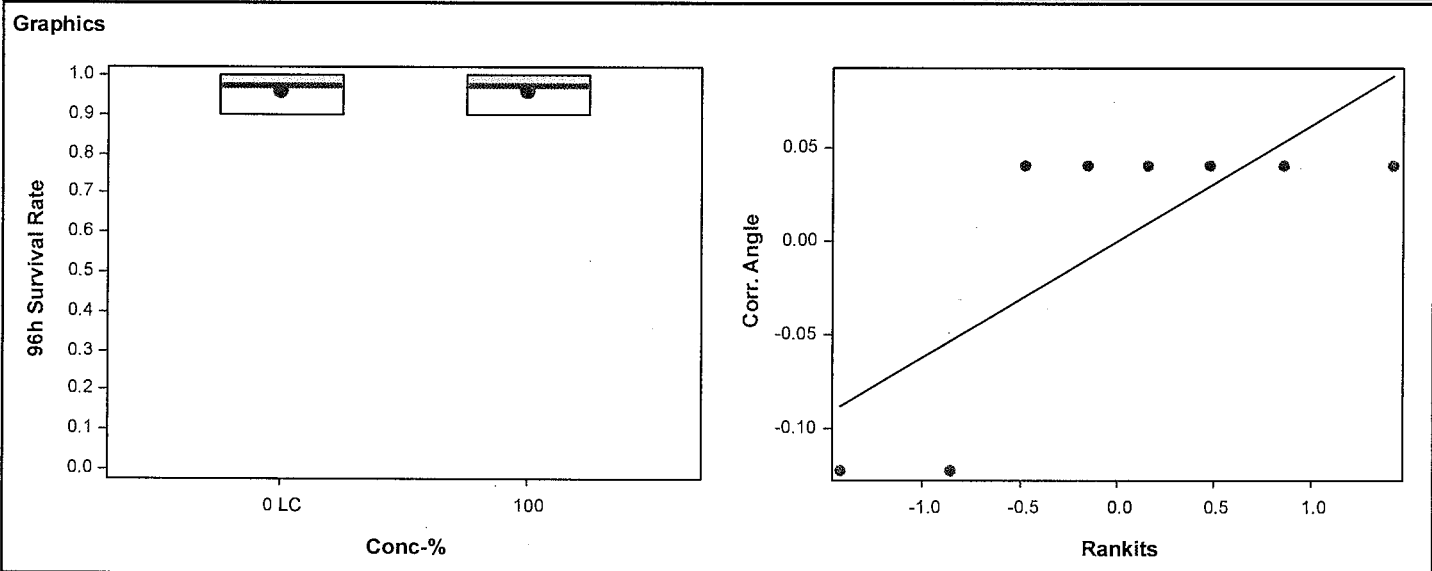
Wilcoxon Rank Sum Two-Sample Test									
Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Lab Control		100	6	18	---	2	Exact	0.7857	Non-Significant Effect

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0	0	1	0	1.0000	Non-Significant Effect
Error	0.039839	0.0066398	6			
Total	0.039839		7			

ANOVA Assumptions Tests						
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)	
Variance	Variance Ratio F Test	1	47.5	1.0000	Equal Variances	
Distribution	Shapiro-Wilk W Normality Test	0.566	0.645	6.3E-05	Non-Normal Distribution	

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	0.975	0.895	1.000	1.000	0.900	1.000	0.025	5.13%	0.00%
100		4	0.975	0.895	1.000	1.000	0.900	1.000	0.025	5.13%	0.00%

Angular (Corrected) Transformed Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.370	1.240	1.500	1.410	1.250	1.410	0.041	5.94%	0.00%
100		4	1.370	1.240	1.500	1.410	1.250	1.410	0.041	5.94%	0.00%



96-hour Freshwater Acute Bioassay
 Static-Renewal Conditions
 DF-006

Water Quality Measurements
 & Test Organism Survival

Client: Stantec/ ADC Kekaha

Test Species: P. promelas

Sample ID: WW-3

Start Date/Time: 7/10/24 1610

Sample Log-in No's.: 24-0773

End Date/Time: 7/14/24 1645

Test No's.: 2407-5236

Tech Initials				
0	24	48	72	96
RT	WF	WF	WF	WF
RT	WF	WF	WF	WF
GM		HH		

Counts: RT WF WF WF WF

Readings: RT WF WF WF WF

Dilutions made by: GM HH

Concentration (%)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Conductivity (µmhos/cm)					Temperature (°C)					
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
Lab Control	A	10	10	10	10	10	8.25	8.26	8.24	8.28	8.31	8.5	9.2	8.5	8.9	8.8	157	209	193	200	201	204	19.4	19.9	20.3	20.2	
	B	10	10	10	10	10		8.27				9.14	9.3					210					19.2				
	C	10	10	10	10	10																					
	D	10	10	10	10	9																					
100%	A	10	10	10	10	10	7.91	8.4	7.86	8.48	8.55	7.9	9.0	8.3	8.9	8.8	153	159	164	162	160	20.1	19.5	19.2	20.3	20.3	
	B	10	10	10	10	10		8.48					9.0					157					19.4				
	C	10	10	10	10	10																					
	D	10	10	10	9	9																					
	A	10																									
	B	10																									
	C	10																									
	D	10																									
	A	10																									
	B	10																									
	C	10																									
	D	10																									
	A																										
	B																										
	C																										
	D																										

Initial Counts QC'd by: AD
 Initiated by: RT

Environmental Chamber: C

Animal Source/Date Received: ABS/ 7/10/24 Age at Initiation: 6 days

Animal Acclimation Qualifiers (circle all that apply): Q22 / Q23 / Q24 / none

Comments: l = initial reading in fresh test solution, f = final reading in test chamber prior to renewal
Organisms fed prior to initiation, circle one (y/n) y Q22 ACS 8/19/24 WF 8/19/24

QC Check: GM 8/19/24

Final Review: KL 8/19/24
ACS 8/19/24

Enthalpy Analytical, 4340 Vandever Avenue, San Diego, CA 92120.

CETIS Summary Report

Report Date: 19 Aug-24 11:51 (p 1 of 1)
 Test Code/ID: 2407-S238 / 01-1604-0840

Ceriodaphnia 96-h Acute Survival Test

Nautilus Environmental (CA)

Batch ID: 16-3563-4048	Test Type: Survival (96h)	Analyst:
Start Date: 10 Jul-24 14:40	Protocol: EPA/821/R-02-012 (2002)	Diluent: Not Applicable
Ending Date: 14 Jul-24 13:55	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 95h	Taxon:	Source: In-House Culture Age: <24hr

Sample ID: 12-1369-9161	Code: 24-0773	Project: ADC Kekaha WQ Monitoring
Sample Date: 08 Jul-24 13:00 PDT	Material: Dry Weather Sample	Source: Stantec
Receipt Date: 09 Jul-24 10:15 PDT	CAS (PC):	Station: WW-3
Sample Age: 50h (4.1 °C)	Client: Stantec	

Single Comparison Summary					
Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
17-3932-7861	96h Survival Rate	Wilcoxon Rank Sum Two-Sample Test	1.0000	100% passed 96h survival rate	1

Test Acceptability							
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
17-3932-7861	96h Survival Rate	Control Resp	1	0.9	<<	Yes	Passes Criteria

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LC	4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	0.00%

96h Survival Rate Detail						MD5: 02835A6FE1710696B7C8F79EC2C22377
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	
0	LC	1.000	1.000	1.000	1.000	
100		1.000	1.000	1.000	1.000	

ⓐ 08/19/24

CETIS Analytical Report

Report Date: 19 Aug-24 11:16 (p 1 of 1)
 Test Code/ID: 2407-S238 / 01-1604-0840

Ceriodaphnia 96-h Acute Survival Test			Nautilus Environmental (CA)		
Analysis ID: 17-3932-7861	Endpoint: 96h Survival Rate	CETIS Version: CETISv2.1.4			
Analyzed: 19 Aug-24 11:15	Analysis: Nonparametric-Two Sample	Status Level: 1			
Edit Date: 19 Aug-24 11:14	MD5 Hash: 02835A6FE1710696B7C8F79EC2C22377	Editor ID: 000-502-715-6			

Data Transform	Alt Hyp	Comparison Result
Angular (Corrected)	C > T	100% passed 96h survival rate endpoint

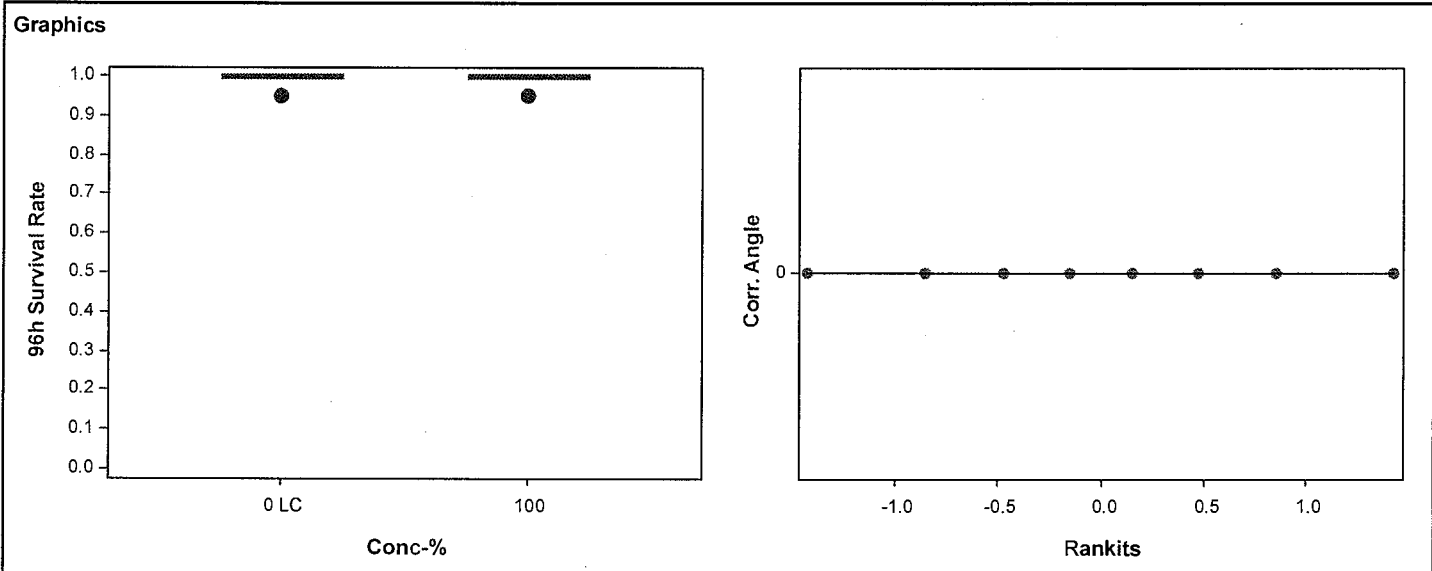
Wilcoxon Rank Sum Two-Sample Test									
Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Lab Control		100	6 18	---	1	Exact	1.0000	Non-Significant Effect	

ANOVA Table							
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)	
Between	0	0	1			Indeterminate	
Error	0	0	6				
Total	0		7				

ANOVA Assumptions Tests						
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)	
Variance	Variance Ratio F Test				Indeterminate	
Distribution	Shapiro-Wilk W Normality Test				Indeterminate	

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	0.00%

Angular (Corrected) Transformed Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.350	1.340	1.350	1.350	1.350	1.350	0.000	0.00%	0.00%
100		4	1.350	1.340	1.350	1.350	1.350	1.350	0.000	0.00%	0.00%



96-hour Freshwater Acute Bioassay
 Static-Renewal Conditions
 DF-002

Water Quality Measurements
 & Test Organism Survival

Client: Stantec/ ADC Kekaha
 Sample ID: WW-3
 Test No.: 2407-5238
 Log #: 24-0773

Test Species: C. dubia
 Start Date/Time: 7/10/24 1440
 End Date/Time: 7/11/24 1355

Tech Initials				
0	24	48	72	96
RT	WF	HH	WF	GM
RT	WF	HH	WF	GM
GM	-	HH	-	-

Counts:
 Readings:
 Dilutions made by:

Concentration (%)	Rand #	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Conductivity (µmhos/cm)					Temperature (°C) _{Q1}				
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96
Lab Control	A	5	5	5	5	5	8.18	8.26	8.24	8.27	8.20	8.3	8.8	8.5	8.7	8.7	183	196	192	195	192	20.6	20.2	20.3	21.0	20.9
	B	5	5	5	5	5			8.12	8.16				8.3					210	202				20.0		
	C	5	5	5	5	5																				
	D	5	5	5	5	5																				
100	A	5	5	5	5	5	7.97	8.34	7.99	8.32	8.37	8.1	8.8	9.0	8.8	8.6	1527	1629	1599	1611	1575	20.6	19.9	20.6	21.1	20.9
	B	5	5	5	5	5			8.31					8.3					1551					20.0		
	C	5	5	5	5	5																				
	D	5	5	5	5	5																				

Initiated by: RT
 Initial Count QC'd by: WF

Environmental Chamber: C.
 Age at Initiation: < 24 hr

Animal Source/Date Received: Internal / NA

Feeding Times				
0	24	48	72	96
AM: -	-	1200	-	-
PM: -	-	-	-	-

Comments: i = initial reading in fresh test solution, f = final reading in test chamber prior to renewal
 Organisms fed prior to initiation, circle one (y) n) 218 7/11/24 GM 208/19/24

QC Check: GM 8/19/24

Final Review: KL 8/19/24 / ALS 8/19/24

CETIS Summary Report

Report Date: 19 Aug-24 11:47 (p 1 of 1)
 Test Code/ID: 2407-S237 / 02-6014-8054

Acute Amphipod Survival Test

Nautilus Environmental (CA)

Batch ID: 10-7375-1793	Test Type: Survival (96h)	Analyst:
Start Date: 10 Jul-24 16:00	Protocol: EPA/600/R-99/064 (2000)	Diluent: Not Applicable
Ending Date: 14 Jul-24 16:45	Species: Hyalella azteca	Brine: Not Applicable
Test Length: 4d 1h	Taxon:	Source: Aquatic Research Organisms
		Age: 13d

Sample ID: 07-5423-7632	Code: 24-0773	Project: ADC Kekaha WQ Monitoring
Sample Date: 08 Jul-24 12:45	Material: Wet Weather Sample	Source: Stantec
Receipt Date: 09 Jul-24 10:15 PDT	CAS (PC): Dry	Station: WW-3
Sample Age: 51h (4.1 °C)	Client: Stantec	

Single Comparison Summary					
Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
05-1657-7846	96h Survival Rate	Wilcoxon Rank Sum Two-Sample Test	1.0000	100% passed 96h survival rate	1

Test Acceptability							
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
05-1657-7846	96h Survival Rate	Control Resp	0.975	0.9	<<	Yes	Passes Criteria

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LC	4	0.975	0.895	1.050	0.900	1.000	0.025	0.050	5.13%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	-2.56%

96h Survival Rate Detail						MD5: D48F5AD17E130283B443426C0FF3BF0E					
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4						
0	LC	1.000	1.000	0.900	1.000						
100		1.000	1.000	1.000	1.000						

Ⓐ Q10 K8/19/24

Ⓑ Q8 H5 8/19/24

CETIS Analytical Report

Report Date: 19 Aug-24 11:48 (p 1 of 1)
 Test Code/ID: 2407-S237 / 02-6014-8054

Acute Amphipod Survival Test			Nautilus Environmental (CA)		
Analysis ID: 05-1657-7846	Endpoint: 96h Survival Rate	CETIS Version: CETISv2.1.4			
Analyzed: 19 Aug-24 11:47	Analysis: Nonparametric-Two Sample	Status Level: 1			
Edit Date: 19 Aug-24 11:46	MD5 Hash: D48F5AD17E130283B443426C0FF3BF0E	Editor ID: 000-502-715-6			

Data Transform	Alt Hyp	Comparison Result	PMSD
Angular (Corrected)	C > T	100% passed 96h survival rate endpoint	5.20%

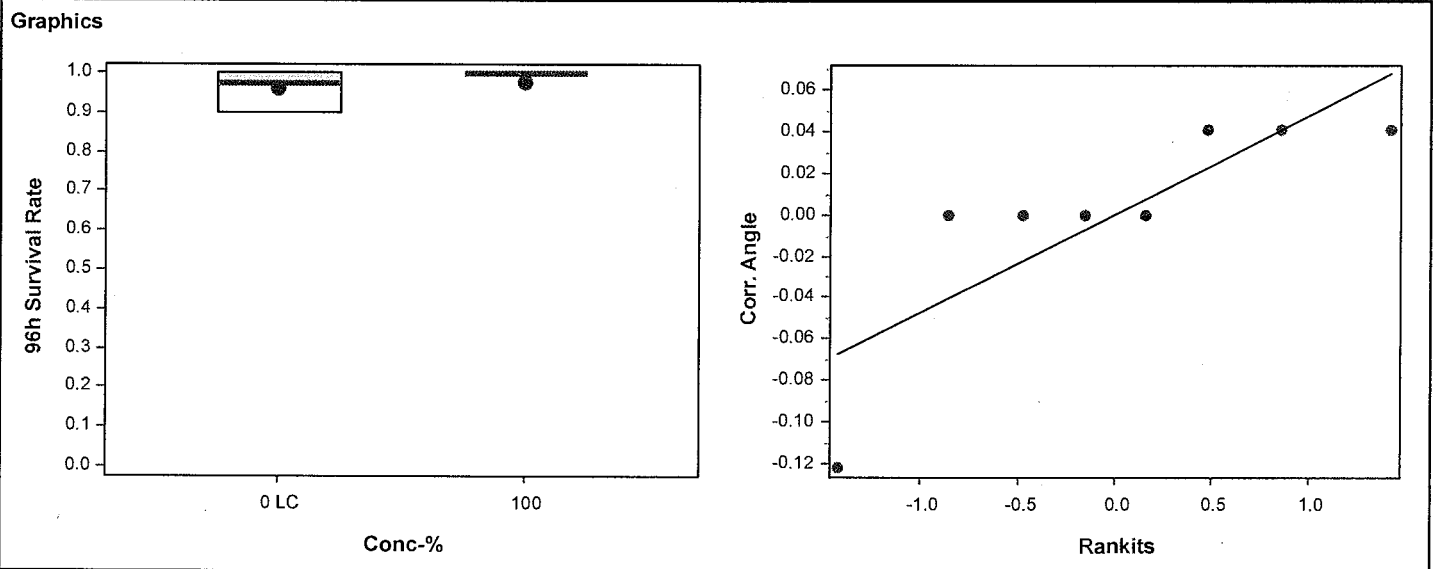
Wilcoxon Rank Sum Two-Sample Test									
Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Lab Control		100	6	20	---	1	Exact	1.0000	Non-Significant Effect

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0033199	0.0033199	1	1	0.3559	Non-Significant Effect
Error	0.0199195	0.0033199	6			
Total	0.0232394		7			

ANOVA Assumptions Tests						
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)	
Variance	Variance Ratio F Test				Indeterminate	
Distribution	Shapiro-Wilk W Normality Test	0.706	0.645	0.0027	Non-Normal Distribution	

96h Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	0.975	0.895	1.000	1.000	0.900	1.000	0.025	5.13%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	-2.56%

Angular (Corrected) Transformed Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LC	4	1.370	1.240	1.500	1.410	1.250	1.410	0.041	5.94%	0.00%
100		4	1.410	1.410	1.410	1.410	1.410	1.410	0.000	0.00%	-2.97%



96-hour Freshwater Acute Bioassay
Static-Renewal Conditions
 DF-006

Water Quality Measurements
& Test Organism Survival

Client: Stantec/ ADC Kekaha

Test Species: H. azteca

Sample ID: WW-3

Start Date/Time: 7/10/24 1600

Sample Log-in No's.: 24-0773

End Date/Time: 7/14/24 1615

Test No's.: 2407-5237

Tech Initials				
0	24	48	72	96
WF	WF	WF	WF	WF
RT	WF	WF	WF	WF
GM	HH			

Counts: WF WF WF WF WF

Readings: RT WF WF WF WF

Dilutions made by: GM HH

Concentration (%)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Conductivity (µmhos/cm)					Temperature (°C)				
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96
Lab Control (CFW)	A	10	10	10	10	10	8.40	8.33	8.41	8.36	8.38	9.0	9.2	9.0	8.9	8.9	777	850	821	837	850	19.8	19.7	19.6	20.3	20.6
	B	10	10	10	10	10			8.33			9.14	9.0						849					19.3		
	C	10	9	9	9	9																				
	D	10	10	10	10	10																				
100%	A	10	10	10	10	10	7.97	8.49	8.07	8.51	8.46	8.1	9.1	9.0	8.9	8.8	1539	1634	1605	1638	1613	20.0	19.5	20.1	20.2	20.5
	B	10	10	10	10	10			8.48			9.14	9.0						1633					19.2		
	C	10	10	10	10	10																				
	D	10	10	10	10	10																				
	A	10																								
	B	10																								
	C	10																								
	D	10																								
	A	10																								
	B	10																								
	C	10																								
	D	10																								
	A																									
	B																									
	C																									
	D																									

Initial Counts QC'd by: RT
 Initiated by: WF

Environmental Chamber: C

Animal Source/Date Received: ARO / 7/10/24 Age at Initiation: 13d

Animal Acclimation Qualifiers (circle all that apply): Q22 / Q23 / Q24 / (none)

Feeding Times				
0	24	48	72	96
AM: -	-	07:40	-	-
PM: -	-	-	-	-

Comments: i = initial reading in fresh test solution, f = final reading in test chamber prior to renewal
Organisms fed prior to initiation, circle one (y) / n) Q22 WF 7/12/24

QC Check: GM 8/19/24

Final Review: KL 8/19/24 / AS 8/19/24

Appendix B

Sample Check-In Information

WW-2: acute topsmelt, silverside, mysid

Client: Stantec GS

Tests Performed: WW-3: acute fathead, Hyalella

Sample Descriptions:

Project: ADC Kekaha

Test ID No.(s): 2407-5230 to 5247 5232
+ 5236 to 5238

- 1) light yellow, clear, no odor, no debris
2) light brown, clear, no odor no debris
3) _____
4) _____

Sample ID:	1) WW-2	2) WW-3	3	4)
Log-in No. (24-xxxx):	<u>00 0772</u>	<u>0773</u>		
Sample Collection Date & Time:	<u>7/18/24 1245^{PDT}</u>	<u>7/18/24 1300^{PDT}</u>		
Sample Receipt Date & Time:	<u>7/19/24 1015</u>	<u>7/19/24 1015</u>		
Number of Containers & Container Type:	<u>2x4L urbi</u>	<u>2x4L urbi</u>		
Approx. Total Volume Received (L):	<u>~8</u>	<u>~8</u>		
Check-in Temp (°C)	<u>6.0</u>	<u>4.1</u>		
Temperature OK? ¹	<u>Y</u> N	<u>Y</u> N	Y N	Y N
DO (mg/L)	<u>5.6</u>	<u>7.5</u>		
pH (units)	<u>7.42</u>	<u>7.93</u>		
Conductivity (µS/cm)	<u>—</u>	<u>1634</u>		
Salinity (ppt)	<u>31.0</u>	<u>0.9</u>		
Alkalinity (mg/L) ²	<u>154</u>	<u>187</u>		
Hardness (mg/L) ^{2,3}	<u>—</u>	<u>300</u>		
Total Chlorine (mg/L)	<u>0.02</u>	<u>0.02</u>		
Technician Initials	<u>SM</u>	<u>SM</u>		

COC Complete? Y N

Filtration? Y N

Initials: 1) _____ 2) N 3) _____ 4) _____

Pore Size: _____

Organisms or Debris

pH Adjustment? Y N

	1	2	3	4	5	6
Initial pH:						
Amount of HCl added:						
Final pH:						

Freshwater Tests: WW-3

Control/Dilution Water Source: 8:2 Coast Other: CFW (Hyalella) Alkalinity: 96/110 Hardness: 89/210

Additional Control? Y N = _____ Alkalinity: _____ Hardness: _____

Marine Tests: WW-2

Control/Dilution Water Source: LAB SW ART SW Other: _____ Alkalinity: 107 Salinity: 30ppt

Additional Control? Y N = _____ Alkalinity: _____ Salinity: _____

Sample Salted w/ artificial salt? Y N If yes, target ppt and source? _____

Sample salted w/ brine? Y N If yes, target ppt? _____

Cl₂ Adjustment? Y N

	1	2	3	4	5	6
Initial Free Cl ₂ :						
STS added:						
Final Free Cl ₂ :						

Sample Aeration? Y N

	1	2	3	4	5	6
Initial D.O.						
Duration & Rate						
Final D.O.						

Notes ¹ Temperature for sample must be 0-6°C if received >24 hours past collection time.

² mg/L as CaCO₃, ³ Measured for freshwater samples only, NA = Not Applicable

Measure NH₃ via test strip (circle one)? Y N

NH₃ Strip Result* A: _____ B: _____ C: _____

*(if 6 or more, notify PM)

Subsamples for Additional Chemistry Required? Y N

NH₃ Other _____

Tech Initials: _____

Additional Comments QC 18 HH 7/19/24 QC 16 ACS 8/19/24

QC Check: SM 8/19/24

Final Review: KL 8/19/24 / ACS 8/19/24

Appendix C

Chain-of-Custody Form

Enthalpy Analytical - Environmental Toxicology

4340 Vandever Avenue
San Diego, CA 92120
Phone 858.587.7333
infoSD@enthalpy.com

Chain of Custody

Date 7/8/24 Page 1 of 1

Sample Collection By:							ANALYSES REQUIRED							Receipt Temperature (°C)
Report to:				Invoice To:			Enthalpy Matrix Codes:							
Company Stantec GS (Formerly Cardno-GS) Address 737 Bishop St Suite 3050 City/State/Zip Honolulu, HI 96734 Contact Benjamin Berridge Phone 808-476-0067 Email benjamin.berridge@cardno-gs.com				Same as Report to <input checked="" type="checkbox"/> Company _____ Address _____ City/State/Zip _____ Contact _____ Phone _____ Email _____			G = Grab C = Composite FW = Freshwater SW = Seawater Sed = Sediment STRM = Stormwater GW = Groundwater WW = Wastewater O = Other (specify)							P. promelas 96-hr Acute Survival C. dubia 96-hr Acute Survival H. azteca 96-hr Acute Survival A. affinis 96-hr Acute Survival M.beryllina 96-hr Acute Survival A. bahia 96-hr Acute Survival
SAMPLE ID	SAMPLE		MATRIX CODE	Container		COMMENTS								
	Date	Time	Type (G or C)	(FW, SW, Sed, STRM, GW, WW, O)	Type <input checked="" type="radio"/>		Qty							
772	7/8/2024	0945	G	STRM-SW	2.5 Gal Plastic	2				X	X	X		
773	7/8/2024	1000	G	STRM-SW	2.5 Gal Plastic	2	X	X	X	X	X	X	6.0	
													4.1	
PROJECT INFORMATION		SAMPLE RECEIPT				1) RELINQUISHED BY (CLIENT)			2) RECEIVED BY (COURIER)					
Project Name:	ADC Water Quality Monitoring	Total No. of Containers		4	(Signature)	Sydney Gabbitzer	(Time)	1300	(Signature)		(Time)			
PO No.:	090942	Received Good Condition?		Y	(Printed Name)	SYDNEY GABITZER	(Date)	07/08/24	(Printed Name)		(Date)			
Shipped Via:	FedEx	Matches Test Schedule?		Y	(Company)	Stantec GS								
SPECIAL INSTRUCTIONS/COMMENTS:					3) RELINQUISHED BY (COURIER)			4) RECEIVED BY (LABORATORY)						
(Q) 18 HH 7/19/24 Freshwater species tested dvc to <1 ppt sample salinity (X) We received 2, 4L cubes per sample on 7/8/24. KLB/19/24					(Signature)		(Time)	(Signature)	Sauh	(Time)	1015			
					(Printed Name)		(Date)	(Printed Name)	Sauh Machines	(Date)	7/19/24			
					(Company)		(Log-in #s)	(Company)	EA-SD	24-0772, 0773				

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.
Shaded areas are for lab use only
Report turn-around-time varies depending on length of test; please inquire with your project manager.

Appendix D

Qualifier Code Glossary

Glossary of Qualifier Codes

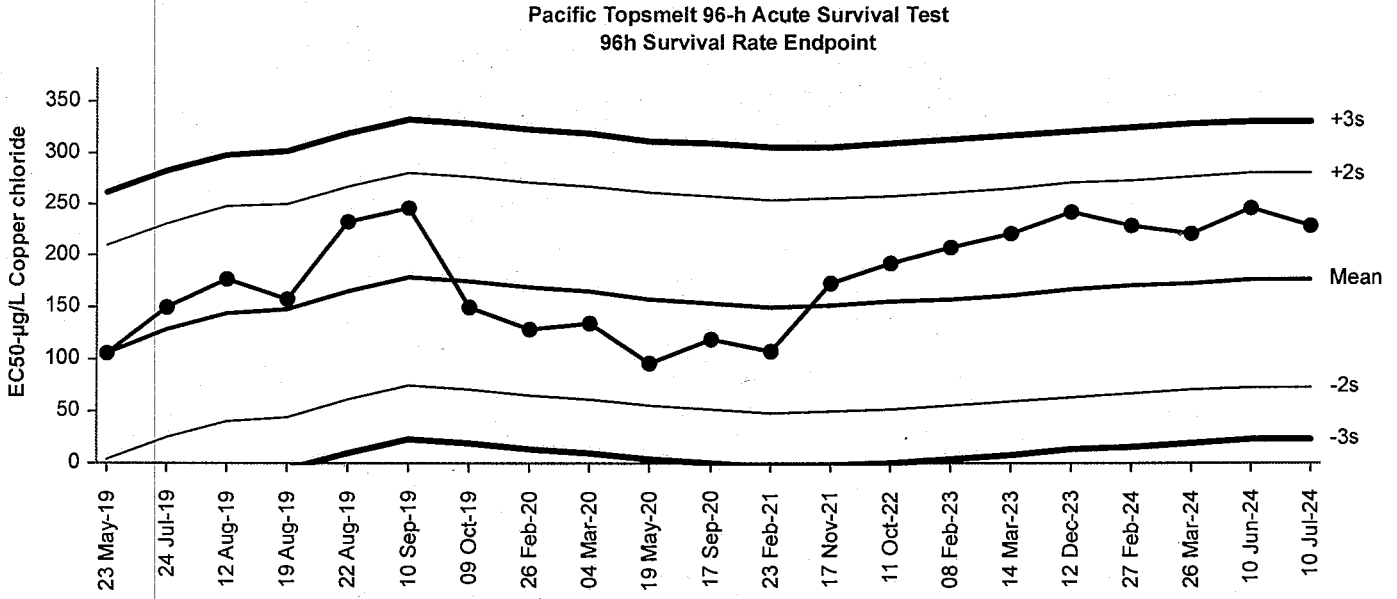
- Q1 - Temperature out of recommended range; corrective action taken and recorded in Test Temperature Correction Log
- Q2 - Temperature out of recommended range; no action taken, test terminated same day
- Q3 - Sample pH adjusted to within range of 6-9 with reagent grade NaOH or HCl, as needed
- Q4 - Test aerated; D.O. levels dropped below 4.0 mg/L
- Q5 - Test initiated with continuous aeration due to an anticipated drop in D.O.
- Q6 - Airline obstructed or fell out of replicate and replaced; drop in D.O. occurred
- Q7 - Salinity out of recommended range
- Q8 - Spilled test chamber/ Unable to recover test organism(s)
- Q9 - Inadequate sample volume remaining, partial renewal performed
- Q10 - Inadequate sample volume remaining, no renewal performed
- Q11 - Sample out of holding time; refer to QA section of report
- Q12 - Replicate(s) not initiated; excluded from data analysis
- Q13 - Survival counts not recorded due to poor visibility or heavy debris
- Q14 - D.O. percent saturation was checked and was $\leq 110\%$
- Q15 - Did not meet minimum test acceptability criteria. Refer to QA section of report.
- Q16 - Percent minimum significant difference (PMSD) was below the lower bound limit for acceptability. This indicates that statistics may be over-sensitive in detecting a difference from the control due to low variability in the data set. Test results were reviewed and reported in accordance with guidance found in EPA-833-R-00-003, 2000 unless otherwise specified.
- Q17 - Percent minimum significant difference (PMSD) was above the upper bound limit for acceptability. This indicates that statistics may be under-sensitive in detecting a difference from the control due to high variability in the data set. Test results were reviewed and reported in accordance with EPA-833-R-00-003, 2000 guidance unless otherwise specified.
- Q18 - Incorrect or illegible Entry
- Q19 - Miscalculation
- Q20 - PMSD criteria do not apply to the test of significant toxicity (TST) analysis
- Q21 - Other (provide reason in comments section)
- Q22 - Greater than 10% batch mortality observed upon receipt and/or in holding prior to test initiation. Organisms acclimated to test conditions at Enthalpy and ultimately deemed fit to use for testing.
- Q23 - Test organisms experienced a temperature shift greater than 3°C within 1 day or were received at a temperature greater than 3°C outside the recommended test temperature range and had minimal time to acclimate prior to test initiation. However, due to age-specific protocol requirements and/or sample holding time constraints, the organisms were used to initiate test(s). Organisms were ultimately deemed fit to use for testing.
- Q24 - Test organisms experienced a salinity shift greater than 3 ppt within 1 day or were received at a salinity greater than 3 ppt outside the recommended test salinity range and had minimal time to acclimate prior to test initiation. However, due to age-specific protocol requirements and/or sample holding time constraints, the organisms were used to initiate test(s). Organisms were ultimately deemed fit to use for testing.

Appendix E

Reference Toxicant Test Control Charts

Marine Species

Pacific Topsmelt 96-h Acute Survival Test		Nautilus Environmental (CA)	
Test Type: Survival (96h)	Organism: Atherinops affinis	Material: Copper chloride	
Protocol: EPA/821/R-02-012 (2002)	Endpoint: 96h Survival Rate	Source: Reference Toxicant-REF	



Cumulative Mean Plot

Mean: 177.2	Count: 20	-2s Warning Limit: 74	-3s Action Limit: 22.5
Sigma: 51.58	CV: 29.10%	+2s Warning Limit: 280	+3s Action Limit: 332

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2019	May	23	15:30	106.6	-70.57	-1.368			03-2154-6851	19-3512-2662
2		Jul	24	16:25	150.4	-26.79	-0.5194			02-4547-9337	03-4444-2456
3		Aug	12	16:15	176.5	-0.7274	-0.0141			05-6999-0080	19-2452-0933
4			19	19:30	158.7	-18.46	-0.3579			00-1616-6988	16-4823-3084
5			22	16:45	232	54.83	1.063			14-6253-4066	09-6589-6472
6		Sep	10	11:15	246.2	69.03	1.338			01-3190-7470	00-5901-5932
7		Oct	9	15:40	149.6	-27.6	-0.5351			12-2483-9958	16-7314-6828
8	2020	Feb	26	15:20	129.7	-47.52	-0.9212			04-4275-3329	19-1366-8841
9		Mar	4	17:15	134.1	-43.12	-0.836			09-0186-0501	09-2347-5750
10		May	19	17:20	96.59	-80.61	-1.563			09-8977-8612	01-6220-7123
11		Sep	17	14:25	118.9	-58.28	-1.13			07-7701-0607	03-4458-7869
12	2021	Feb	23	16:10	107.2	-70.02	-1.358			15-2183-5128	00-7227-8818
13		Nov	17	17:00	174.1	-3.09	-0.05991			10-0193-2387	14-5680-1838
14	2022	Oct	11	16:07	193.2	15.99	0.31			02-7625-1264	21-0421-1281
15	2023	Feb	8	14:45	207.1	29.85	0.5788			19-6999-8482	14-7115-7109
16		Mar	14	14:20	221.9	44.71	0.8669			15-6395-0579	17-4627-7258
17		Dec	12	16:10	243.4	66.2	1.283			16-7260-5143	20-7116-3012
18	2024	Feb	27	15:50	229.7	52.54	1.019			20-5591-0437	03-3170-5555
19		Mar	26	14:05	221.9	44.71	0.8669			17-4330-0896	11-1517-3205
20		Jun	10	13:50	246.2	69.03	1.338			10-1309-3249	11-2796-9191
21		Jul	10	16:25	228.5	51.32	0.9949			21-3298-4124	00-0054-2058

Inland Silverside 96-h Acute Survival Test

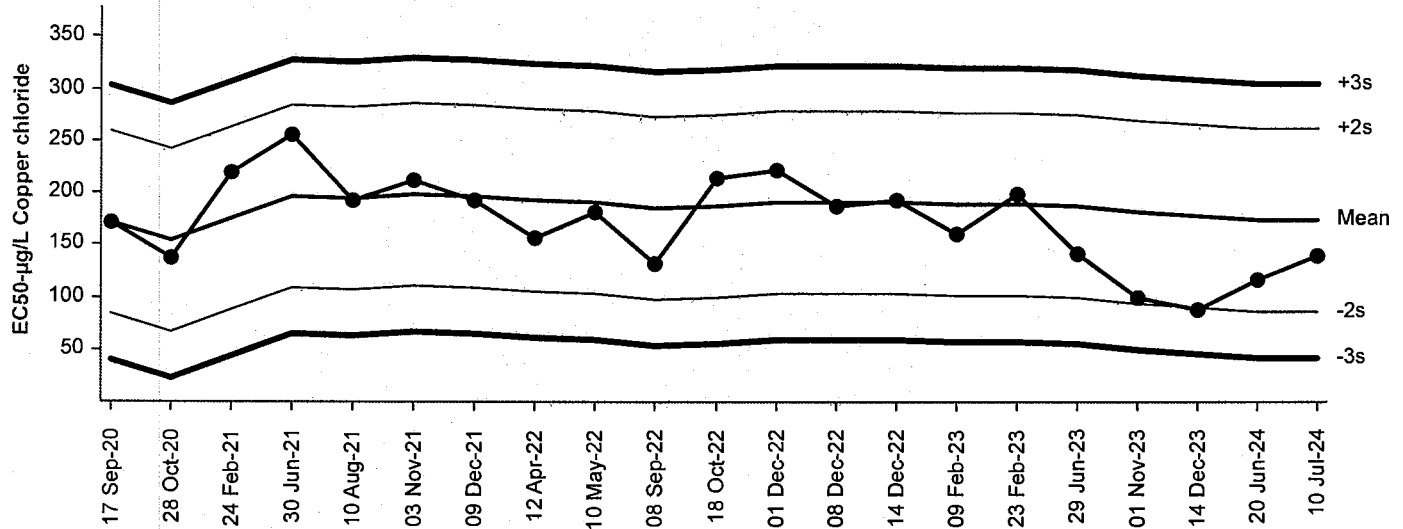
Nautilus Environmental (CA)

Test Type: Survival (96h)
Protocol: EPA/821/R-02-012 (2002)

Organism: Menidia beryllina
Endpoint: 96h Survival Rate

Material: Copper chloride
Source: Reference Toxicant-REF

Inland Silverside 96-h Acute Survival Test
96h Survival Rate Endpoint



Cumulative Mean Plot

Mean: 173.3 Count: 20 -2s Warning Limit: 85.7 -3s Action Limit: 41.8
Sigma: 43.83 CV: 25.30% +2s Warning Limit: 261 +3s Action Limit: 305

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2020	Sep	17	14:45	172	-1.343	-0.03063			07-8442-4358	02-9347-5784
2		Oct	28	16:35	136.6	-36.7	-0.8372			10-9446-3954	10-4215-8111
3	2021	Feb	24	17:30	218.2	44.89	1.024			11-4316-4077	02-1492-4727
4		Jun	30	16:05	254.9	81.61	1.862			01-4075-9626	19-2668-9340
5		Aug	10	14:30	193.2	19.89	0.4537			20-1130-3481	09-5748-8802
6		Nov	3	17:15	211.2	37.95	0.8658			01-2577-3416	13-6085-8539
7		Dec	9	17:20	192.4	19.14	0.4368			15-9690-9061	01-9685-6201
8	2022	Apr	12	17:35	156.9	-16.38	-0.3738			07-5453-0338	19-2336-1516
9		May	10	17:15	180.3	6.95	0.1586			13-4082-2694	00-0925-3219
10		Sep	8	18:45	132	-41.35	-0.9434			01-2610-4728	13-4659-9428
11		Oct	18	15:45	213.3	39.97	0.9118			04-3098-2404	19-6506-1409
12		Dec	1	18:15	221.9	48.61	1.109			10-3325-3262	00-5431-5878
13			8	16:42	186.6	13.31	0.3036			14-7600-8927	07-7357-4624
14			14	17:05	192.4	19.14	0.4368			05-3190-6319	15-9199-6379
15	2023	Feb	9	15:55	160.8	-12.45	-0.2841			10-2868-1341	17-9597-6471
16			23	16:20	198.2	24.93	0.5688			20-7336-4922	10-8152-4222
17		Jun	29	10:05	141.4	-31.88	-0.7273			18-3139-7315	15-1717-4813
18		Nov	1	15:35	98.92	-74.38	-1.697			04-9858-3754	04-0354-7731
19		Dec	14	15:40	88.54	-84.76	-1.934			03-9728-8300	18-2064-3811
20	2024	Jun	20	18:15	116.5	-56.84	-1.297			02-4364-8651	04-2415-5001
21		Jul	10	16:40	139.5	-33.79	-0.7709			19-9326-0820	09-9824-5473

Mysid 96-h Acute Survival Test

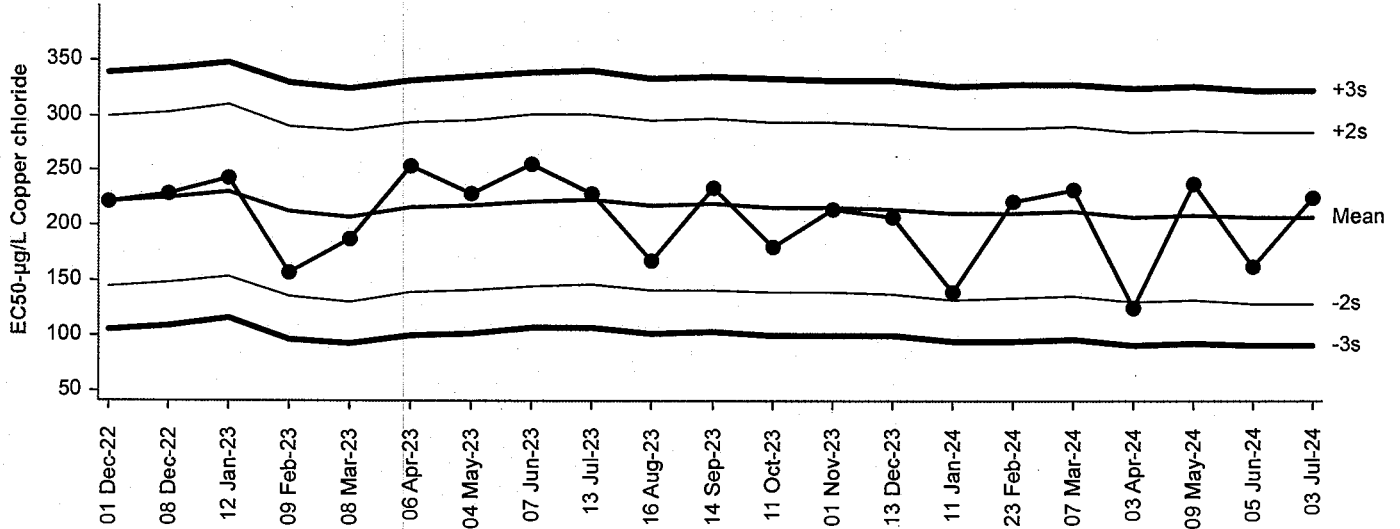
Nautilus Environmental (CA)

Test Type: Survival (96h)
Protocol: EPA/821/R-02-012 (2002)

Organism: Americamysis bahia
Endpoint: 96h Survival Rate

Material: Copper chloride
Source: Reference Toxicant-REF

Mysid 96-h Acute Survival Test
96h Survival Rate Endpoint



Cumulative Mean Plot

Mean: 206.8 Count: 20 -2s Warning Limit: 129 -3s Action Limit: 90.7
Sigma: 38.71 CV: 18.70% +2s Warning Limit: 284 +3s Action Limit: 323

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2022	Dec	1	17:15	221.9	15.11	0.3904			12-7728-2441	03-3819-4975
2			8	17:00	229.7	22.94	0.5926			10-3057-7335	14-3192-0583
3	2023	Jan	12	16:40	243.5	36.68	0.9475			06-4134-1621	13-1048-4946
4		Feb	9	16:00	158	-48.77	-1.26			20-3360-0175	15-2448-4691
5		Mar	8	17:35	188.5	-18.27	-0.4719			07-5876-1441	05-3317-1681
6		Apr	6	15:50	254.9	48.11	1.243			17-9538-5237	02-2975-9120
7		May	4	15:05	229.7	22.94	0.5926			00-3120-7404	17-2182-4484
8		Jun	7	16:55	255.8	48.96	1.265			19-0115-6833	15-8591-8623
9		Jul	13	17:40	229.1	22.29	0.5758			14-4572-0919	05-7885-4188
10		Aug	16	16:20	168.5	-38.26	-0.9884			12-5126-9673	21-3168-1490
11		Sep	14	16:10	234.5	27.72	0.7162			12-4490-6342	05-6140-1388
12		Oct	11	16:05	180.3	-26.55	-0.6859			10-6071-4883	06-9811-9527
13		Nov	1	15:20	214.4	7.555	0.1952			08-5051-1943	10-7508-3629
14		Dec	13	15:05	207.1	0.253	0.006536			13-6574-4295	15-2299-7241
15	2024	Jan	11	16:15	139.3	-67.54	-1.745			12-2714-7247	15-6117-3790
16		Feb	23	16:15	221.9	15.11	0.3904			04-1438-8638	01-9398-5662
17		Mar	7	16:15	233.6	26.82	0.6927			13-7999-6305	13-1030-9848
18		Apr	3	16:55	125.9	-80.93	-2.091	(-)		09-6518-5757	03-6272-3374
19		May	9	20:00	237.4	30.6	0.7904			13-3196-3934	19-6071-3777
20		Jun	5	17:10	162.9	-43.93	-1.135			10-6654-5789	01-1494-0415
21		Jul	3	15:20	225.4	18.59	0.4802			03-4361-4751	13-6922-9955

Freshwater Species

Fathead Minnow 96-h Acute Survival Test

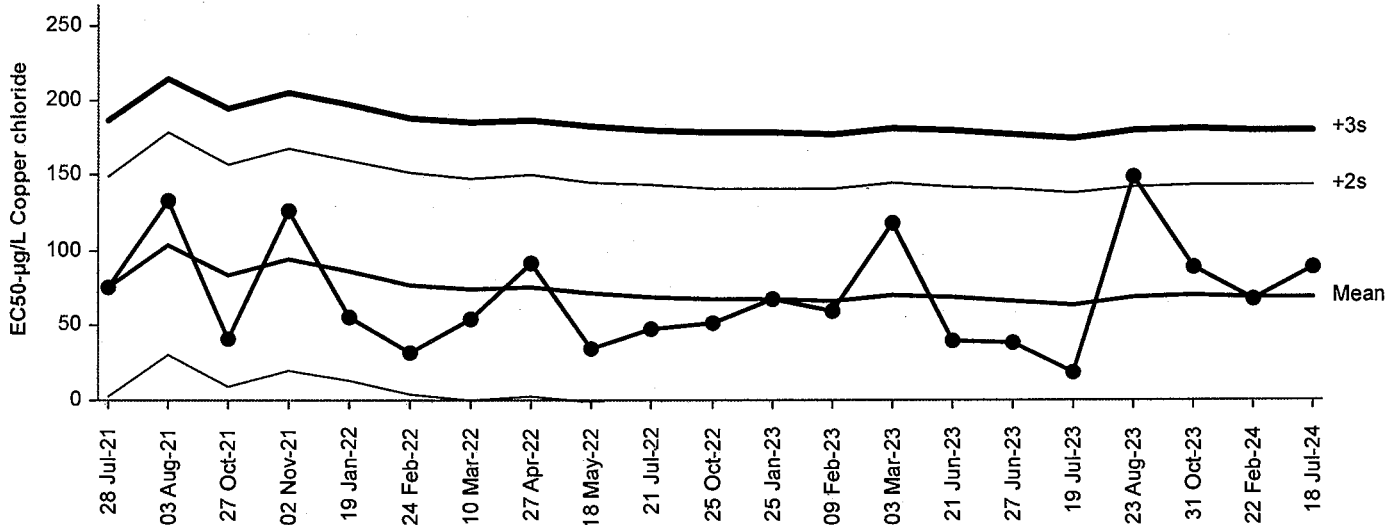
Nautilus Environmental (CA)

Test Type: Survival (96h)
 Protocol: EPA/821/R-02-012 (2002)

Organism: Pimephales promelas
 Endpoint: 96h Survival Rate

Material: Copper chloride
 Source: Reference Toxicant-REF

Fathead Minnow 96-h Acute Survival Test
 96h Survival Rate Endpoint



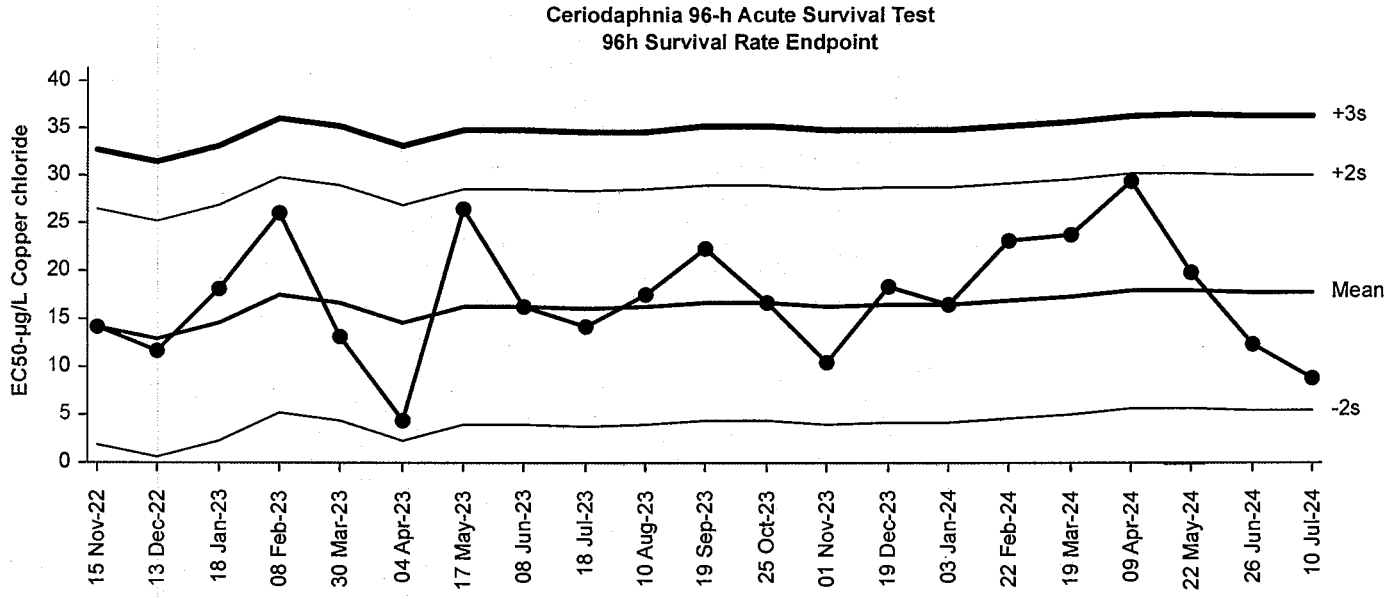
Cumulative Mean Plot

Mean: 69.93 Count: 20 -2s Warning Limit: -3.79 -3s Action Limit: -40.6
 Sigma: 36.86 CV: 52.70% +2s Warning Limit: 144 +3s Action Limit: 181

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2021	Jul	28	17:30	75.92	5.987	0.1624			04-8837-0734	00-2418-4039
2		Aug	3	15:30	133.2	63.25	1.716			01-5905-1678	06-9846-1307
3		Oct	27	17:55	41.65	-28.28	-0.7672			04-8454-9323	21-2291-3266
4		Nov	2	14:55	126.6	56.64	1.537			02-5381-8973	13-3748-9296
5	2022	Jan	19	14:00	56.14	-13.79	-0.374			20-2049-9334	07-9545-0483
6		Feb	24	16:10	32.6	-37.33	-1.013			17-0760-7068	11-1555-4113
7		Mar	10	15:55	54.03	-15.9	-0.4314			12-1339-4334	02-2933-1085
8		Apr	27	15:10	91.63	21.7	0.5886			04-5378-2545	07-8420-2882
9		May	18	16:55	35.22	-34.71	-0.9416			18-5661-4183	07-3447-2353
10		Jul	21	17:45	48.45	-21.48	-0.5829			07-1587-3363	06-2880-7627
11		Oct	25	15:50	52.4	-17.53	-0.4757			06-6314-9915	03-2187-1829
12	2023	Jan	25	18:01	67.41	-2.519	-0.06834			19-0784-2205	08-9150-6242
13		Feb	9	16:50	59.42	-10.51	-0.2851			06-2469-6093	00-8217-4012
14		Mar	3	16:35	118.4	48.5	1.316			05-5862-3435	03-5254-4793
15		Jun	21	14:55	40.38	-29.55	-0.8018			03-3580-9094	00-4894-4439
16			27	14:30	39.27	-30.66	-0.8317			11-9788-2598	16-4880-2585
17		Jul	19	16:55	19.16	-50.77	-1.377			12-1198-2690	17-1336-5643
18		Aug	23	14:10	149	79.09	2.146	(+)		16-5077-3459	12-7429-9907
19		Oct	31	16:30	89.22	19.29	0.5233			14-5248-4726	19-3257-9871
20	2024	Feb	22	15:15	68.56	-1.375	-0.03729			01-0897-6283	16-1209-7268
21		Jul	18	16:50	89.91	19.98	0.5419			17-5016-8139	09-1007-2327

Ceriodaphnia 96-h Acute Survival Test		Nautilus Environmental (CA)	
Test Type: Survival (96h)	Organism: Ceriodaphnia dubia	Material: Copper chloride	
Protocol: EPA/821/R-02-012 (2002)	Endpoint: 96h Survival Rate	Source: Reference Toxicant-REF	



Cumulative Mean Plot

Mean: 17.66	Count: 20	-2s Warning Limit: 5.38	-3s Action Limit: -0.759
Sigma: 6.14	CV: 34.80%	+2s Warning Limit: 29.9	+3s Action Limit: 36.1

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2022	Nov	15	15:05	14.14	-3.518	-0.5729			00-5461-1467	19-6868-6561
2		Dec	13	15:05	11.7	-5.958	-0.9704			12-0086-6428	08-7195-5995
3	2023	Jan	18	13:55	18.03	0.365	0.05945			09-7538-0685	07-8161-1407
4		Feb	8	15:20	25.96	8.298	1.351			17-7377-6097	02-7722-6792
5		Mar	30	14:50	13.2	-4.465	-0.7272			00-8046-0950	18-8859-9281
6		Apr	4	15:20	4.318	-13.34	-2.173	(-)		07-0540-7813	08-4239-9426
7		May	17	15:30	26.39	8.73	1.422			04-0322-0654	15-8704-5627
8		Jun	8	15:35	16.25	-1.415	-0.2304			04-4576-9053	18-8894-4384
9		Jul	18	15:55	14.14	-3.518	-0.5729			09-9837-6211	11-0291-4351
10		Aug	10	16:00	17.41	-0.249	-0.04055			10-9457-1593	13-6631-9515
11		Sep	19	15:20	22.19	4.531	0.738			05-7527-0059	21-3108-9916
12		Oct	25	15:30	16.53	-1.131	-0.1842			12-6281-0744	01-0251-4169
13		Nov	1	14:45	10.35	-7.307	-1.19			11-4473-5077	14-7590-4791
14		Dec	19	15:15	18.26	0.5966	0.09717			18-6862-1657	12-1996-9983
15	2024	Jan	3	14:30	16.32	-1.337	-0.2178			06-2149-8718	18-3000-4863
16		Feb	22	15:50	22.97	5.314	0.8655			01-3884-2391	04-2542-0939
17		Mar	19	15:10	23.78	6.124	0.9974			00-0740-9301	09-1193-6954
18		Apr	9	17:40	29.28	11.62	1.893			09-7844-4955	13-5203-1001
19		May	22	14:35	19.69	2.031	0.3308			18-6585-6518	08-0701-7695
20		Jun	26	18:20	12.31	-5.349	-0.8711			09-5737-7257	05-1487-6057
21		Jul	10	14:50	8.763	-8.897	-1.449			18-9205-3518	07-4906-0524

Acute Amphipod Survival Test

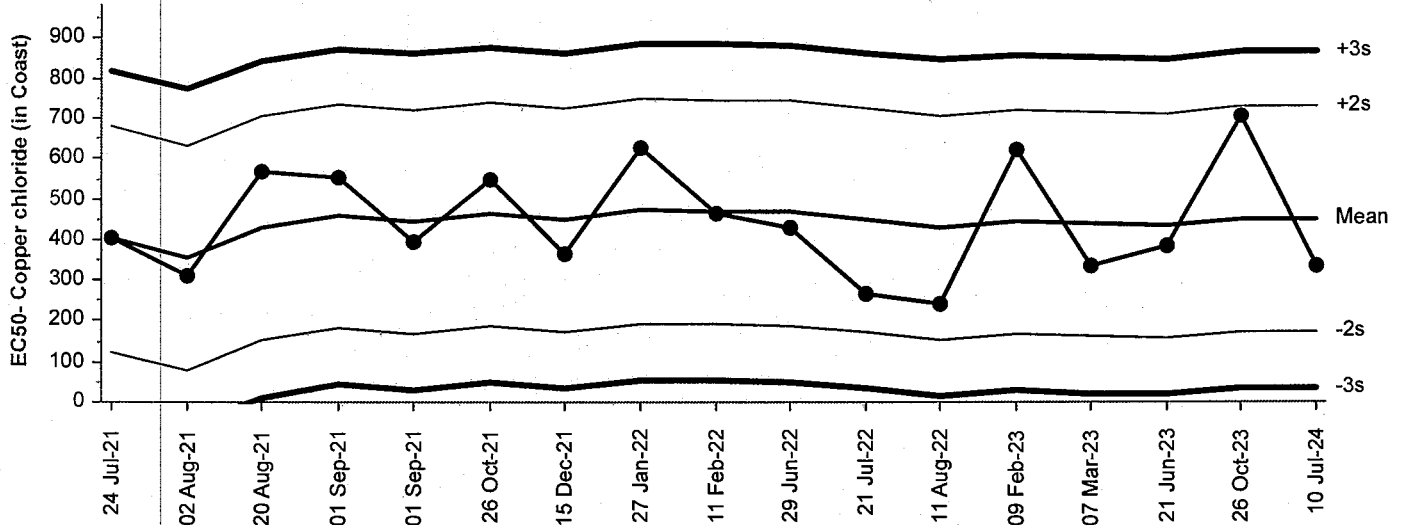
Nautilus Environmental (CA)

Test Type: Survival (96h)
 Protocol: EPA/821/R-02-012 (2002)

Organism: Hyalella azteca
 Endpoint: 96h Survival Rate

Material: Copper chloride (in Coast)
 Source: Reference Toxicant-REF

Acute Amphipod Survival Test
 96h Survival Rate Endpoint



Cumulative Mean Plot

Mean: 450.8 Count: 16 -2s Warning Limit: 174 -3s Action Limit: 35.6
 Sigma: 138.4 CV: 30.70% +2s Warning Limit: 728 +3s Action Limit: 866

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2021	Jul	24	10:35	402.1	-48.74	-0.3522			01-9158-2894	04-9657-5582
2		Aug	2	18:10	311.1	-139.7	-1.009			12-1293-8948	18-5258-0274
3			20	16:45	568.8	118	0.8523			13-6419-6120	05-7250-0573
4		Sep	1	14:40	551	100.2	0.7242			16-9611-9317	12-1127-8026
5			1	16:00	393.8	-57.01	-0.4119			05-5529-3044	09-1102-6160
6		Oct	26	19:00	549.6	98.78	0.7137			18-1063-1366	05-2379-1035
7		Dec	15	18:25	366.8	-84	-0.6069			20-2781-7958	18-9516-9975
8	2022	Jan	27	17:30	625.4	174.6	1.261			18-9392-5843	01-5172-6206
9		Feb	11	17:35	463.8	13.04	0.09424			14-7873-5968	19-5575-1394
10		Jun	29	17:00	431	-19.75	-0.1427			03-3409-7356	15-5020-6688
11		Jul	21	16:27	264.5	-186.3	-1.346			05-1323-0021	05-5852-2990
12		Aug	11	18:55	240.4	-210.4	-1.52			20-9606-1183	03-0306-6180
13	2023	Feb	9	17:15	619.4	168.6	1.218			20-3293-9827	10-5332-3305
14		Mar	7	16:30	334.9	-115.9	-0.8373			20-0160-8722	08-8166-1553
15		Jun	21	15:20	384	-66.78	-0.4825			18-4411-2589	06-3764-0545
16		Oct	26	16:00	706.2	255.4	1.845			10-2636-7152	05-7689-5230
17	2024	Jul	10	16:45	335.6	-115.2	-0.8327			11-3450-9982	15-0106-0716



AECOS, Inc.

45-939 Kamehameha Hwy, Suite 104 • Kaneohe, HI 96744

Telephone: (808) 234-7770 • Fax: (808) 234-7775 • aecos@aecos.com

CLIENT: Stantec GS
737 Bishop Street, Suite 3050
Honolulu HI 96813
ATTENTION: Benjamin Berridge / Jess Hawkins
Benjamin.Berridge@cardno-gs.com
Jessica.Hawkins@cardno-gs.com

FILE No.:	1494
REPORT DATE:	12/12/2024
PAGE:	1 of 1

AECOS REPORT OF RESULTS

SAMPLE TYPE: Water **AECOS LOG No.:** 51815
DATE SAMPLED: 12/09/24
DATE/TIME RECEIVED: 12/09/24 @1444 **SAMPLER:** J. Hawkins
TEMP. CONTROL: 1.3 (w/IR) **MATRIX:** Water
DATE/TIME ANALYZED: 12/09/24 @1520 **ANALYST:** R. Knapstein, C. Kunioka

SAMPLE ID ↓	ANALYTE (UNITS)	Enterococcus (MPN/100ml)	Dilution Factor (10 ml / 100 ml)	Number of large positive wells	Number of small positive wells
	METHOD →	ASTM D650399	---	---	---
	TIME SAMPLED ↓				
U-3 / WW-4	0815	630	10	34	5
D-8	0835	1700	10	46	14
E-2	0845	150	10	13	0
D-4	0910	340	10	23	3
D-7	0920	380	10	25	3
WW-2	0930	160	10	11	3
D-6	0940	130	10	9	3
WW-3	0955	170	10	14	1
U-2 / WW-5	1020	3300	10	48	24
E-1	0945	<10	10	0	0
E-1 dup	0950	<10	10	0	0


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	1-0518151

CLIENT: Stantec GS	CONTACT: Jessica Hawkins
ADDRESS: 737 Bishop St suite 3550 Honolulu, HI, 96813	PHONE No.: 808-754-0126
	Purchase Order No.: <input type="text"/>

RUSH
 SEE REVERSE

SPECIAL INSTRUCTIONS

SAMPLED

	<input checked="" type="checkbox"/>	SAMPLE ID	DATE	TIME	SAMPLE TYPE	CONTAINER(S)	REQUESTED ANALYSES	PRESERVATION
1		u-3/ww-4	12/9/24	815	water	1 IDEXX	Enterococci	
2		D-8		835				
3		E-2		845				
4		D-4		910				
5		D-7		9:20				
6		ww-2		930				
7		D-6		940				
8		ww-3		955				
9		ww-6						
10		u2/ww-5		10:20				

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:	DATE
PRINT NAME Jessica Hawkins	12-9-2024
RELINQUISHED:	DATE 12/9
SIGNATURE <i>Jess Hawkins</i>	TIME 1440

RECEIVED BY:	DATE
SIGNATURE	TIME
RELINQUISHED:	DATE
SIGNATURE OR INITIALS	TIME

RECEIVED FOR LABORATORY:	DATE 12/9
SIGNATURE <i>[Signature]</i>	TIME 1444
RELINQUISHED:	DATE
SIGNATURE OR INITIALS	TIME

COMMENTS:

PRECAUTIONS:

DISPOSAL:

USE (BLACK) INK

IR gun
T=1.3°C

RETURN SAMPLE TO CLIENT



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.	<input type="text"/>
LOG NUMBER	[51815]

CLIENT: stantec GS ADDRESS: 737 Bishop St suite 3050 Honolulu, HI, 96813	CONTACT: Jessica Hawkins PHONE No.: ☎ 808-754-0126 Purchase Order No.: <input type="text"/>
--	---

RUSH
 SEE REVERSE

SPECIAL INSTRUCTIONS

		SAMPLED					CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
	<input checked="" type="checkbox"/>	SAMPLE ID	DATE	TIME	SAMPLE TYPE					
1		E-1	12/9/24	945	Water	1	IDEX	Enterococci		
2		E-1 dup		950						
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:	DATE
PRINT NAME Jessica Hawkins	12-9 2024
RELINQUISHED:	DATE 12/9 2024
SIGNATURE <i>Ji Hawkins</i>	TIME 1440

RECEIVED BY:	DATE
SIGNATURE	TIME
RELINQUISHED:	DATE
SIGNATURE OR INITIALS	TIME

RECEIVED FOR LABORATORY:	DATE 12/9 2024
SIGNATURE <i>[Signature]</i>	TIME 1444
RELINQUISHED:	DATE
SIGNATURE OR INITIALS	TIME

COMMENTS:

PRECAUTIONS:

DISPOSAL:

RETURN SAMPLE TO CLIENT

USE (BLACK) INK



AECOS, Inc.

45-939 Kamehameha Hwy, Suite 104 • Kaneohe, HI 96744

Telephone: (808) 234-7770 • Fax: (808) 234-7775 • aecos@aecos.com

INVOICE

No. 1494027

December 12, 2024

Cardno Inc. / Stantec
ATTN: Jessica Hawkins
737 Bishop Street, Suite 3050
Honolulu HI 96813
Jessica.Hawkins@cardno-gs.com
accountspayable@cardno-gs.com

Cardno Project ID: 090942-33625
ADC Kekaha Water Quality Monitoring (WQM) and
Best Management Practices

CHARGES FOR:

[51815]

QTY	CODE	ITEM	UNIT	EXTENDED
11	4	Enterococcus 12/9/2024	\$90.00	\$990.00

SUBTOTAL \$990.00

HI State GET (4.712%) \$46.65

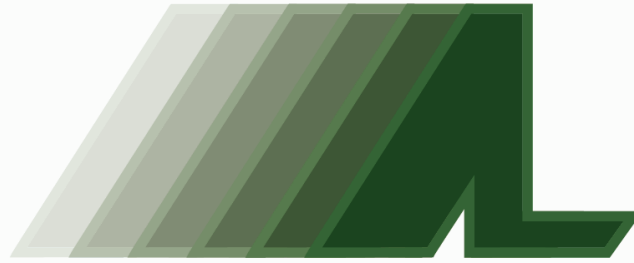
TOTAL DUE AECOS \$1,036.65

Please note: prices are subject to change effective January 2025.

TERMS: Net 30 days. A finance charge of 1.5% per month (18% APR) will be applied to all balances due.

Please remit to: AECOS, Inc. and include Invoice Number with your payment. Mahalo.

AECOS, Inc. FEIN: 99-0146768 GET: GE-126-651-5968-01



ANATEK LABS

Analytical Results Report For:

Stantec-GS

Project Number:

ADC Water Quality Monitoring

Anatek Work Order:

WEL0554

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
Address: 737 Bishop St., Ste. 3050
 Honolulu, HI 96813
Attn: Benjamin Berridge

Work Order: WEL0554
Project: ADC Water Quality Monitoring
Reported: 1/21/2025 09:04

Analytical Results Report

Sample Location: D-4
Lab/Sample Number: WEL0554-01 **Collect Date:** 12/09/24 09:10
Date Received: 12/12/24 11:04 **Collected By:**
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	15.0	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00146	mg/L	0.00100	1/13/25 13:19	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 11:39	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	12/19/24 0:24	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/19/24 0:24	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/19/24 0:24	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/19/24 0:24	BAM	NWTPH-HCID	
<hr/>							
<i>Surrogate: n-Hexacosane</i>	<i>100%</i>		<i>50-150</i>	<i>12/19/24 0:24</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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-6
 Lab/Sample Number: WEL0554-02 Collect Date: 12/09/24 09:30
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	22.6	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00144	mg/L	0.00100	1/13/25 13:23	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 11:57	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	12/20/24 1:19	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 1:19	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 1:19	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 1:19	BAM	NWTPH-HCID	
<hr/>							
Surrogate: n-Hexacosane	105%		50-150	12/20/24 1:19	BAM	NWTPH-HCID	

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Sample Location: D-7
 Lab/Sample Number: WEL0554-03 Collect Date: 12/09/24 09:20
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	9.70	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.000640	mg/L	0.00100	1/13/25 13:26	JLG	EPA 200.8	J
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 11:59	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0978	1/2/25 21:18	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0978	1/2/25 21:18	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.489	1/2/25 21:18	MAH	EPA 625.1	
<hr/>							
<i>Surrogate: Terphenyl-d14</i>	<i>87.6%</i>		<i>25-135</i>	<i>1/2/25 21:18</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.0800	12/20/24 2:15	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 2:15	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 2:15	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 2:15	BAM	NWTPH-HCID	
<hr/>							
<i>Surrogate: n-Hexacosane</i>	<i>97.0%</i>		<i>50-150</i>	<i>12/20/24 2:15</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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

Sample Location: D-8
 Lab/Sample Number: WEL0554-04 Collect Date: 12/09/24 08:35
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	2.40	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00554	mg/L	0.00100	1/13/25 13:30	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:02	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0984	1/2/25 21:45	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0984	1/2/25 21:45	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.492	1/2/25 21:45	MAH	EPA 625.1	
<hr/>							
<i>Surrogate: Terphenyl-d14</i>	<i>86.5%</i>		<i>25-135</i>	<i>1/2/25 21:45</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.0800	12/20/24 3:10	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 3:10	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 3:10	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 3:10	BAM	NWTPH-HCID	
<hr/>							
<i>Surrogate: n-Hexacosane</i>	<i>99.2%</i>		<i>50-150</i>	<i>12/20/24 3:10</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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: E-2
 Lab/Sample Number: WEL0554-05 Collect Date: 12/09/24 08:50
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	6.30	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.0140	mg/L	0.00100	1/13/25 13:33	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:04	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0951	1/2/25 22:12	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0951	1/2/25 22:12	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.476	1/2/25 22:12	MAH	EPA 625.1	
<hr/>							
<i>Surrogate: Terphenyl-d14</i>	<i>99.0%</i>		<i>25-135</i>	<i>1/2/25 22:12</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.0800	12/20/24 4:05	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 4:05	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 4:05	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 4:05	BAM	NWTPH-HCID	
<hr/>							
<i>Surrogate: n-Hexacosane</i>	<i>99.4%</i>		<i>50-150</i>	<i>12/20/24 4:05</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

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Sample Location: E-1
 Lab/Sample Number: WEL0554-06 Collect Date: 12/09/24 09:45
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	7.00	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00134	mg/L	0.00100	1/13/25 13:37	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:07	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0943	1/2/25 22:40	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0943	1/2/25 22:40	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.472	1/2/25 22:40	MAH	EPA 625.1	
<hr/>							
<i>Surrogate: Terphenyl-d14</i>	<i>89.5%</i>		<i>25-135</i>	<i>1/2/25 22:40</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.240	12/20/24 5:00	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	1.20	12/20/24 5:00	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.240	12/20/24 5:00	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	1.20	12/20/24 5:00	BAM	NWTPH-HCID	
<hr/>							
<i>Surrogate: n-Hexacosane</i>	<i>137%</i>		<i>50-150</i>	<i>12/20/24 5:00</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

Sample Comment: Non-target analyte in gas range, sample ND (BAM 12/24/24).

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Sample Location: E-1 DUP
 Lab/Sample Number: WEL0554-07 Collect Date: 12/09/24 09:50
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	8.90	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00125	mg/L	0.00100	1/13/25 13:55	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:20	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0944	1/15/25 21:04	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0944	1/15/25 21:04	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.472	1/15/25 21:04	MAH	EPA 625.1	
<hr/>							
<i>Surrogate: Terphenyl-d14</i>	<i>93.4%</i>		<i>25-135</i>	<i>1/15/25 21:04</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.240	12/20/24 11:29	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	1.20	12/20/24 11:29	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.240	12/20/24 11:29	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	1.20	12/20/24 11:29	BAM	NWTPH-HCID	
<hr/>							
<i>Surrogate: n-Hexacosane</i>	<i>181%</i>		<i>50-150</i>	<i>12/20/24 11:29</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	<i>S13</i>

Sample Comment: Non-target analyte in gas range, sample ND (BAM 12/24/24).

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Sample Location: WW-2
Lab/Sample Number: WEL0554-08 Collect Date: 12/09/24 09:30
Date Received: 12/12/24 11:04 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	20.4	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00192	mg/L	0.00100	1/13/25 13:58	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:22	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	12/20/24 12:25	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 12:25	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 12:25	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 12:25	BAM	NWTPH-HCID	

Surrogate: n-Hexacosane	104%		50-150	12/20/24 12:25	BAM	NWTPH-HCID	

Sample Comment: Non-target analyte in gas range, sample ND (BAM 12/24/24).

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Sample Location: WW-3
 Lab/Sample Number: WEL0554-09 Collect Date: 12/09/24 09:55
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	3.90	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.00126	mg/L	0.00100	1/13/25 14:00	JLG	EPA 200.8	
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:25	JLG	EPA 245.1	
Semivolatiles							
Atrazine	ND	ug/L	0.0944	1/2/25 23:08	MAH	EPA 625.1	
Metolachlor	ND	ug/L	0.0944	1/2/25 23:08	MAH	EPA 625.1	
Permethrin	ND	ug/L	0.472	1/2/25 23:08	MAH	EPA 625.1	

<i>Surrogate: Terphenyl-d14</i>	<i>92.8%</i>		<i>25-135</i>	<i>1/2/25 23:08</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	ND	mg/L	0.0800	12/20/24 13:21	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 13:21	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 13:21	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 13:21	BAM	NWTPH-HCID	

<i>Surrogate: n-Hexacosane</i>	<i>100%</i>		<i>50-150</i>	<i>12/20/24 13:21</i>	<i>BAM</i>	<i>NWTPH-HCID</i>	

Sample Comment: Non-target analyte in gas range, sample ND (BAM 12/24/24).

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Sample Location: U-2/WW-5
Lab/Sample Number: WEL0554-10 Collect Date: 12/09/24 10:20
Date Received: 12/12/24 11:04 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	43.0	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.000395	mg/L	0.00100	1/13/25 14:02	JLG	EPA 200.8	J
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:27	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	12/20/24 14:17	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 14:17	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 14:17	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 14:17	BAM	NWTPH-HCID	

Surrogate: n-Hexacosane	95.7%		50-150	12/20/24 14:17	BAM	NWTPH-HCID	

Sample Comment: Non-target analyte in gas range, sample ND (BAM 12/24/24).

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Sample Location: U-3/WW-4
Lab/Sample Number: WEL0554-11 Collect Date: 12/09/24 08:15
Date Received: 12/12/24 11:04 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TSS	5.70	mg/L		12/13/24 11:02	EMG	EPA 160.2	
Metals by ICP-MS							
Arsenic	0.000545	mg/L	0.00100	1/13/25 14:05	JLG	EPA 200.8	J
Mercury							
Mercury	ND	ug/L	0.100	12/23/24 12:30	JLG	EPA 245.1	
Semivolatiles							
Diesel	ND	mg/L	0.0800	12/20/24 15:14	BAM	NWTPH-HCID	
Gasoline	ND	mg/L	0.400	12/20/24 15:14	BAM	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0800	12/20/24 15:14	BAM	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.400	12/20/24 15:14	BAM	NWTPH-HCID	

Surrogate: n-Hexacosane	99.0%		50-150	12/20/24 15:14	BAM	NWTPH-HCID	

Sample Comment: Non-target analyte in gas range, sample ND (BAM 12/24/24).

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Sample Location: D-7 Sediment
Lab/Sample Number: WEL0554-14 Collect Date: 12/09/24 09:20
Date Received: 12/12/24 11:04 Collected By:
Matrix: Solid

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
% Solids	52.6	%	0.100	12/18/24 1:30	BMM	SM 2540 G	
Semivolatiles							
AMPA	ND	mg/kg dry	1.14	1/9/25 10:59	BKP	EPA 8321B	
Glyphosate	ND	mg/kg dry	0.569	1/9/25 10:59	BKP	EPA 8321B	
Atrazine	ND	mg/kg dry	0.385	1/3/25 1:52	BMM	EPA 8270E	
Metolachlor	ND	mg/kg dry	0.385	1/3/25 1:52	BMM	EPA 8270E	
Permethrin	ND	mg/kg dry	0.385	1/3/25 1:52	BMM	EPA 8270E	
<i>Surrogate: Terphenyl-d14</i>	<i>93.0%</i>		<i>40-134</i>	<i>1/3/25 1:52</i>	<i>BMM</i>	<i>EPA 8270E</i>	

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Sample Location: D-8 Sediment
 Lab/Sample Number: WEL0554-15 Collect Date: 12/09/24 08:35
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Solid

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
% Solids	57.0	%	0.100	12/18/24 1:30	BMM	SM 2540 G	
Semivolatiles							
AMPA	ND	mg/kg dry	1.03	1/9/25 11:06	BKP	EPA 8321B	
Glyphosate	ND	mg/kg dry	0.517	1/9/25 11:06	BKP	EPA 8321B	
Atrazine	ND	mg/kg dry	0.356	1/3/25 2:20	BMM	EPA 8270E	
Metolachlor	ND	mg/kg dry	0.356	1/3/25 2:20	BMM	EPA 8270E	
Permethrin	ND	mg/kg dry	0.356	1/3/25 2:20	BMM	EPA 8270E	
<hr style="border-top: 1px dashed black;"/>							
<i>Surrogate: Terphenyl-d14</i>	<i>87.2%</i>		<i>40-134</i>	<i>1/3/25 2:20</i>	<i>BMM</i>	<i>EPA 8270E</i>	

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Sample Location: E-2 Sediment
 Lab/Sample Number: WEL0554-16 Collect Date: 12/09/24 08:50
 Date Received: 12/12/24 11:04 Collected By:
 Matrix: Solid

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
% Solids	80.8	%	0.100	12/18/24 1:30	BMM	SM 2540 G	
Semivolatiles							
AMPA	ND	mg/kg dry	0.740	1/9/25 11:12	BKP	EPA 8321B	
Glyphosate	ND	mg/kg dry	0.370	1/9/25 11:12	BKP	EPA 8321B	
Atrazine	ND	mg/kg dry	0.245	1/3/25 2:48	BMM	EPA 8270E	
Metolachlor	ND	mg/kg dry	0.245	1/3/25 2:48	BMM	EPA 8270E	
Permethrin	ND	mg/kg dry	0.245	1/3/25 2:48	BMM	EPA 8270E	
<i>Surrogate: Terphenyl-d14</i>	<i>104%</i>		<i>40-134</i>	<i>1/3/25 2:48</i>	<i>BMM</i>	<i>EPA 8270E</i>	

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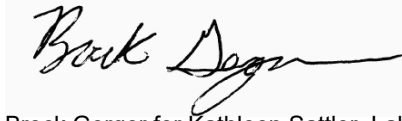
Sample Location: WW-2 Sediment
Lab/Sample Number: WEL0554-17 Collect Date: 12/09/24 08:50
Date Received: 12/12/24 11:04 Collected By:
Matrix: Solid

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
% Solids	72.6	%	0.100	12/18/24 1:30	BMM	SM 2540 G	
Semivolatiles							
AMPA	ND	mg/kg dry	0.818	1/9/25 11:19	BKP	EPA 8321B	
Glyphosate	ND	mg/kg dry	0.409	1/9/25 11:19	BKP	EPA 8321B	
Atrazine	ND	mg/kg dry	0.273	1/3/25 3:16	BMM	EPA 8270E	
Metolachlor	ND	mg/kg dry	0.273	1/3/25 3:16	BMM	EPA 8270E	
Permethrin	ND	mg/kg dry	0.273	1/3/25 3:16	BMM	EPA 8270E	
<i>Surrogate: Terphenyl-d14</i>	<i>86.9%</i>		<i>40-134</i>	<i>1/3/25 3:16</i>	<i>BMM</i>	<i>EPA 8270E</i>	

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Authorized Signature,



Brock Gerger for Kathleen Sattler, Lab Manager

J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
R1	RPD/RSD exceeded the method acceptance limit
S13	Surrogate recovery failure due to matrix interference
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
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: BEL0589 - W Filtration										
Blank (BEL0589-BLK1)										
TSS	0.100			mg/L						
					Prepared & Analyzed: 12/13/24 11:02					
Blank (BEL0589-BLK2)										
TSS	0.100			mg/L						
					Prepared & Analyzed: 12/13/24 11:02					
Blank (BEL0589-BLK3)										
TSS	<0.1			mg/L						
					Prepared & Analyzed: 12/13/24 11:02					
Blank (BEL0589-BLK4)										
TSS	<0.1			mg/L						
					Prepared & Analyzed: 12/13/24 11:02					
Blank (BEL0589-BLK5)										
TSS	<0.1			mg/L						
					Prepared & Analyzed: 12/13/24 11:02					
Blank (BEL0589-BLK6)										
TSS	<0.1			mg/L						
					Prepared & Analyzed: 12/13/24 11:02					
LCS (BEL0589-BS1)										
TSS	99.0			mg/L	100		99.0	90-110		
					Prepared & Analyzed: 12/13/24 11:02					
LCS (BEL0589-BS2)										
TSS	98.0			mg/L	100		98.0	90-110		
					Prepared & Analyzed: 12/13/24 11:02					
LCS (BEL0589-BS3)										
TSS	99.0			mg/L	100		99.0	90-110		
					Prepared & Analyzed: 12/13/24 11:02					
Duplicate (BEL0589-DUP3)										
TSS	10.8			mg/L					8.85	20
					Source: WEL0555-01		Prepared & Analyzed: 12/13/24 11:02			
							11.8			

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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: BEL0589 - W Filtration (Continued)										
Matrix Spike (BEL0589-MS1) Source: WEL0372-01 Prepared & Analyzed: 12/13/24 11:02										
TSS	98.0			mg/L	100	0.100	97.9	80-120		
Matrix Spike Dup (BEL0589-MSD1) Source: WEL0372-01 Prepared & Analyzed: 12/13/24 11:02										
TSS	92.0			mg/L	100	0.100	91.9	80-120	6.32	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: BEL0620 - W 3010 Digest										
Blank (BEL0620-BLK1) Prepared: 12/13/24 15:13- Analyzed: 01/13/25 14:19										
Arsenic	ND		0.00100	mg/L						
LCS (BEL0620-BS1) Prepared: 12/13/24 15:13- Analyzed: 01/13/25 13:16										
Arsenic	0.0512		0.00100	mg/L	0.0500		102	85-115		
Matrix Spike (BEL0620-MS1) Source: WEL0554-06 Prepared: 12/13/24 15:13- Analyzed: 01/13/25 13:39										
Arsenic	0.0522		0.00100	mg/L	0.0500	0.00134	102	70-130		
Matrix Spike (BEL0620-MS2) Source: WEL0554-11 Prepared: 12/13/24 15:13- Analyzed: 01/13/25 14:21										
Arsenic	0.0499		0.00100	mg/L	0.0500	0.000545	98.7	70-130		
Matrix Spike Dup (BEL0620-MSD1) Source: WEL0554-06 Prepared: 12/13/24 15:13- Analyzed: 01/13/25 13:44										
Arsenic	0.0507		0.00100	mg/L	0.0500	0.00134	98.7	70-130	2.90	20
Matrix Spike Dup (BEL0620-MSD2) Source: WEL0554-11 Prepared: 12/13/24 15:13- Analyzed: 01/13/25 14:24										
Arsenic	0.0500		0.00100	mg/L	0.0500	0.000545	98.9	70-130	0.210	20

Quality Control Data (Continued)

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0848 - W 245.1 Digest										
Blank (BEL0848-BLK1) Prepared: 12/19/24 11:51- Analyzed: 12/23/24 11:34										
Mercury	ND		0.100	ug/L						
LCS (BEL0848-BS1) Prepared: 12/19/24 11:51- Analyzed: 12/23/24 11:54										
Mercury	1.04		0.100	ug/L	1.00		104	85-115		
Matrix Spike (BEL0848-MS1) Source: WEL0554-01 Prepared: 12/19/24 11:51- Analyzed: 12/23/24 11:42										
Mercury	2.99		0.100	ug/L	2.50	ND	120	70-130		
Matrix Spike Dup (BEL0848-MSD1) Source: WEL0554-01 Prepared: 12/19/24 11:51- Analyzed: 12/23/24 11:44										

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Quality Control Data (Continued)

Mercury (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0848 - W 245.1 Digest (Continued)										
Matrix Spike Dup (BEL0848-MSD1)			Source: WEL0554-01		Prepared: 12/19/24 11:51- Analyzed: 12/23/24 11:44					
Mercury	2.82		0.100	ug/L	2.50	ND	113	70-130	5.85	20

Quality Control Data (Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0611 - W TPH-Dx										
Blank (BEL0611-BLK1)					Prepared: 12/13/24 13:21- Analyzed: 12/19/24 21:37					
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						
<i>Surrogate: n-Hexacosane</i>			<i>0.199</i>	<i>mg/L</i>	<i>0.200</i>		<i>99.2</i>	<i>50-150</i>		
LCS (BEL0611-BS1)					Prepared: 12/13/24 13:21- Analyzed: 12/19/24 22:33					
Diesel	1.71		0.0800	mg/L	2.00		85.6	70-130		
<i>Surrogate: n-Hexacosane</i>			<i>0.203</i>	<i>mg/L</i>	<i>0.200</i>		<i>101</i>	<i>50-150</i>		
LCS Dup (BEL0611-BSD1)					Prepared: 12/13/24 13:21- Analyzed: 12/19/24 23:28					
Diesel	1.50		0.0800	mg/L	2.00		75.0	70-130	13.2	20
<i>Surrogate: n-Hexacosane</i>			<i>0.202</i>	<i>mg/L</i>	<i>0.200</i>		<i>101</i>	<i>50-150</i>		
Duplicate (BEL0611-DUP1)			Source: WEL0554-01		Prepared: 12/13/24 13:21- Analyzed: 12/20/24 18:04					
Lube Oil	ND		0.0800	mg/L		ND				200
Mineral Oil	ND		0.400	mg/L		ND				200
Gasoline	ND		0.400	mg/L		ND				200
Diesel	ND		0.0800	mg/L		ND				200
<i>Surrogate: n-Hexacosane</i>			<i>0.199</i>	<i>mg/L</i>	<i>0.200</i>		<i>99.3</i>	<i>50-150</i>		
Batch: BEL0665 - SVOC Water										
Blank (BEL0665-BLK1)					Prepared: 12/15/24 13:40- Analyzed: 01/02/25 20:50					
Permethrin	ND		0.500	ug/L						
Metolachlor	ND		0.100	ug/L						
Atrazine	ND		0.100	ug/L						
<i>Surrogate: Terphenyl-d14</i>			<i>23.8</i>	<i>ug/L</i>	<i>25.0</i>		<i>95.1</i>	<i>25-135</i>		

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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
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Batch: BEL0665 - SVOC Water (Continued)

LCS (BEL0665-BS1)

Prepared: 12/15/24 13:40- Analyzed: 01/02/25 19:28

Atrazine	7.25		0.100	ug/L	10.0		72.5	60-125		
Metolachlor	8.08		0.100	ug/L	10.0		80.8	60-125		
<i>Surrogate: Terphenyl-d14</i>			22.9	ug/L	25.0		91.5	25-135		

Matrix Spike (BEL0665-MS1)

Source: WEL0554-06

Prepared: 12/15/24 13:40- Analyzed: 01/02/25 19:55

Metolachlor	7.65		0.100	ug/L	10.0	ND	76.5	40-140		
Atrazine	7.21		0.100	ug/L	10.0	ND	72.1	40-140		
<i>Surrogate: Terphenyl-d14</i>			24.3	ug/L	25.0		97.1	60-130		

Matrix Spike Dup (BEL0665-MSD1)

Source: WEL0554-06

Prepared: 12/15/24 13:40- Analyzed: 01/02/25 20:22

Atrazine	7.43		0.100	ug/L	10.0	ND	74.3	40-140	3.01	40
Metolachlor	7.87		0.100	ug/L	10.0	ND	78.7	40-140	2.84	40
<i>Surrogate: Terphenyl-d14</i>			22.5	ug/L	25.0		89.8	60-130		

Batch: BEL0785 - SVOC Solid

Blank (BEL0785-BLK1)

Prepared: 12/19/24 12:17- Analyzed: 01/03/25 01:25

Atrazine	ND		0.200	mg/kg wet						
Metolachlor	ND		0.200	mg/kg wet						
Permethrin	ND		0.200	mg/kg wet						
<i>Surrogate: Terphenyl-d14</i>			5.33	mg/kg wet	5.00		107	40-134		

LCS (BEL0785-BS1)

Prepared: 12/19/24 12:17- Analyzed: 01/02/25 23:36

Atrazine	0.598		0.200	mg/kg wet	0.500		120	60-125		
Metolachlor	0.546		0.200	mg/kg wet	0.500		109	60-125		
Permethrin	0.904		0.200	mg/kg wet	0.500		181	60-125		
<i>Surrogate: Terphenyl-d14</i>			4.87	mg/kg wet	5.00		97.3	60-125		

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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
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Batch: BEL0785 - SVOC Solid (Continued)

LCS Dup (BEL0785-BSD1)

Prepared: 12/19/24 12:17- Analyzed: 01/03/25 00:03

Atrazine	0.474	R1	0.200	mg/kg wet	0.500		94.8	60-125	23.1	20
Metolachlor	0.434	R1	0.200	mg/kg wet	0.500		86.8	60-125	22.9	20
Permethrin	0.498	R1	0.200	mg/kg wet	0.500		99.6	60-125	57.9	20
<i>Surrogate: Terphenyl-d14</i>			<i>3.65</i>	<i>mg/kg wet</i>	<i>5.00</i>		<i>73.0</i>	<i>60-125</i>		

Matrix Spike (BEL0785-MS1)

Source: WEL0554-16

Prepared: 12/19/24 12:17- Analyzed: 01/03/25 00:30

Atrazine	0.577		0.245	mg/kg dry	0.612	ND	94.4	0-200		
Metolachlor	0.465		0.245	mg/kg dry	0.612	ND	76.0	0-200		
Permethrin	0.648		0.245	mg/kg dry	0.612	ND	106	0-200		
<i>Surrogate: Terphenyl-d14</i>			<i>5.44</i>	<i>mg/kg dry</i>	<i>6.12</i>		<i>89.0</i>	<i>40-134</i>		

Matrix Spike Dup (BEL0785-MSD1)

Source: WEL0554-16

Prepared: 12/19/24 12:17- Analyzed: 01/03/25 00:57

Atrazine	0.442		0.244	mg/kg dry	0.610	ND	72.4	0-200	26.6	200
Metolachlor	0.430		0.244	mg/kg dry	0.610	ND	70.4	0-200	7.85	200
Permethrin	0.696		0.244	mg/kg dry	0.610	ND	114	0-200	7.08	200
<i>Surrogate: Terphenyl-d14</i>			<i>5.23</i>	<i>mg/kg dry</i>	<i>6.10</i>		<i>85.7</i>	<i>40-134</i>		

Batch: BFA0232 - Glyphosate

Blank (BFA0232-BLK1)

Prepared: 01/08/25 10:59- Analyzed: 01/09/25 10:32

Glyphosate	ND		0.0600	mg/kg wet						
AMPA	ND		0.120	mg/kg wet						

LCS (BFA0232-BS1)

Prepared: 01/08/25 10:59- Analyzed: 01/09/25 10:39

Glyphosate	0.100		0.0600	mg/kg wet	0.100		100	70-130		
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Matrix Spike (BFA0232-MS1)

Source: WEL0554-14

Prepared: 01/08/25 10:59- Analyzed: 01/09/25 10:45

Glyphosate	0.943		0.569	mg/kg dry	0.949	ND	99.4	70-130		
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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
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Batch: BFA0232 - Glyphosate (Continued)

Matrix Spike Dup (BFA0232-MSD1)

Source: WEL0554-14

Prepared: 01/08/25 10:59- Analyzed: 01/09/25 10:52

Glyphosate	1.06		0.569	mg/kg dry	0.949	ND	112	70-130	11.9	25
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Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

WEL0554



Due: 12/27/24

Anatek
Log-In # _____

Company Name: Stantec GS (form. Cardno-GS)	Project Manager: Benjamin Berridge	<div style="text-align: center; border: 1px solid black; padding: 2px; margin-bottom: 5px;">Turn Aro</div> Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp <input checked="" type="checkbox"/> Normal *All rush order ___ Phone ___ Next Day* requests must be ___ Mail ___ 2nd Day* prior approved. ___ Fax ___ Other* _____ ___ Email
Address: 737 Bishop St Suite 3050	Project Name & #: ADC Water Quality Monitoring	
City: Honolulu State: HI Zip: 96813	Email Address: benjamin.berridge@stantecgs.com	
Phone: (808) 476-0067	Purchase Order #:	
Fax:	Sampler Name & phone:	

Provide Sample Description				List Analyses Requested											Note Special Instructions/Comments	
Storm water and sediment samples				Preservative		TSS	TPH	**TPH GRO	Arsenic	Mercury	Pesticides EPA 825-SIM	Paraquat Dichloride	Pesticides Sed EPA 8270D	Glyphosate Sed.		
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	EPA 160.2	MOD 8015	SW846M8015	EPA 200.8	EPA 245.1	Permethrin, atrazine, metolachlor	EPA	metolachlor, permethrin	EPA 547		
D-4		12-9-2024 / 09:10 HST	W	5		X	X	X	X	X					MS/MSD volume provided for site E-1	
D-6		12-9-2024 / 09:30 HST	W	5		X	X	X	X	X						
D-7		12-9-2024 / 09:20 HST	W and S	8		X	X	X	X	X	X	X	X	X		
D-8		12-9-2024 / 08:35 HST	W and S	8		X	X	X	X	X	X	X	X	X		
E-2		12-9-2024 / 08:50 HST	W and S	8		X	X	X	X	X	X	X	X	X		
E-1		12-9-2024 / 09:45 HST	W	7		X	X	X	X	X	X	X	X	X		
E-1 DUP		12-9-2024 / 09:50 HST	W	7		X	X	X	X	X	X	X	X	X		
WW-2		12-9-2024 / 09:30 HST	W and S	6		X	X	X	X	X		X	X			
WW-3		12-9-2024 / 09:55 HST	W	7		X	X	X	X	X	X	X	X			
U-2/WW-5		12-9-2024 / 10:20 HST	W	5		X	X	X	X	X						
U-3/WW-4		12-9-2024 / 08:15 HST	W	5		X	X	X	X	X						

Inspection Checklist		
Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
VOC Head Space?	Y	N
Temperature (°C):	See Attached	
Preservative:		
Date & Time:		
Inspected By:		

	Printed Name	Signature	Company	Date	Time
Relinquished by	Sydney Gabitzer	<i>Sydney Gabitzer</i>	Stantec GS	12-10-2024	15:00 HST
Received by	<i>Kathy Lattle</i>	<i>Kathy Lattle</i>	Anatek labs	12-12-24	1100 PST
Relinquished by					
Received by					
Relinquished by					
Received by					



Sample Receipt and Preservation Form

Client Name: Stantec Project: ADC Water Quality (apply Anatek sample label here)

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 4 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): 2.0/2.6 Cooler Temp Corrected (°C): 2.6 Thermometer Used: D16-08

Cooler 2: 2.0/2.6 Cooler 3: 3.2/3.8

Samples Received Intact? Yes No N/A
 Chain of Custody Present? Yes No N/A
 Samples Received Within Hold Time? Yes No N/A
 Samples Properly Preserved? Yes No N/A
 VOC Vials Free of Headspace (<6mm)? Yes No N/A
 VOC Trip Blanks Present? Yes No N/A
 Labels and Chains Agree? Yes No N/A
 Total Number of Sample Bottles Received: 71

Comments:

Chain of Custody Fully Completed? Yes No N/A
 Correct Containers Received? Yes No N/A
 Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

HCl 2400468	61000 mL	Cooler 1 : D-4, D-6, D-7, D-8
HCl 20358	644 mL	Cooler 2 : E-2, E-1 DUP
P1000 mL		Cooler 3 : WW-2, WW-3, U-3/WW-4
P 250 mL		Cooler 4 : E-1, U-2/WW-5
P 125 mL		

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: Kathleen A. Sattler Date/Time: 12-12-24



Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

WEL0554



Due: 12/27/24

Anatek
Log-In # _____

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

Turn Aro

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

<input checked="" type="checkbox"/> Normal	*All rush order requests must be prior approved.	<input type="checkbox"/> Phone
<input type="checkbox"/> Next Day*		<input type="checkbox"/> Mail
<input type="checkbox"/> 2nd Day*		<input type="checkbox"/> Fax
<input type="checkbox"/> Other* _____		<input checked="" type="checkbox"/> Email

Provide Sample Description				List Analyses Requested											Note Special Instructions/Comments	
Storm water and sediment samples				Preservative		TSS EPA 160.2	TPH HClID - SW 846 MOD 8015	**TPH GRO SW846M8015	Arsenic EPA 200.8	Mercury EPA 245.1	Pesticides EPA 825-SM Permethrin, atrazine, metolachlor	Paraquat Dichloride EPA	Pesticides Sed. EPA 8270D 4270C, malathion, methidathion, permethrin	Glyphosate Sed. EPA 547		
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume											
D-4		12-9-2024 / 09:10 HST	W	5		X	X	X	X	X				MS/MSD volume provided for site E-1		
D-6		12-9-2024 / 09:30 HST	W	5		X	X	X	X	X						
D-7		12-9-2024 / 09:20 HST	W and S	8		X	X	X	X	X	X	X	X			
D-8		12-9-2024 / 08:35 HST	W and S	8		X	X	X	X	X	X	X	X			
E-2		12-9-2024 / 08:50 HST	W and S	8		X	X	X	X	X	X	X	X			
E-1		12-9-2024 / 09:45 HST	W	7		X	X	X	X	X	X	X	X			
E-1 DUP		12-9-2024 / 09:50 HST	W	7		X	X	X	X	X	X	X	X			
WW-2		12-9-2024 / 09:30 HST	W and S	6		X	X	X	X	X		X	X			
WW-3		12-9-2024 / 09:55 HST	W	7		X	X	X	X	X	X					
U-2/WW-5		12-9-2024 / 10:20 HST	W	5		X	X	X	X	X						
U-3/WW-4		12-9-2024 / 08:15 HST	W	5		X	X	X	X	X						

Inspection Checklist		
Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
VOC Head Space?	Y	N
Temperature (°C):	See Attached	
Preservative:		
Date & Time:		
Inspected By:		

	Printed Name	Signature	Company	Date	Time
Relinquished by	Sydney Gabitzer	<i>Sydney Gabitzer</i>	Stantec GS	12-10-2024	15:00 HST
Received by	<i>Kathy Lattler</i>	<i>Kathy Lattler</i>	Anatek labs	12-12-24	1100 PST
Relinquished by					
Received by					
Relinquished by					
Received by					



Sample Receipt and Preservation Form

Client Name: Stantec Project: ADC Water Quality (apply Anatek sample label here)

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 4 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): 2.0/2.6 Cooler Temp Corrected (°C): 2.6 Thermometer Used: D16-08
Cooler 2: 2.0/2.6 Cooler 3: 3.2/3.8

Samples Received Intact? Yes No N/A
 Chain of Custody Present? Yes No N/A
 Samples Received Within Hold Time? Yes No N/A
 Samples Properly Preserved? Yes No N/A
 VOC Vials Free of Headspace (<6mm)? Yes No N/A
 VOC Trip Blanks Present? Yes No N/A
 Labels and Chains Agree? Yes No N/A
 Total Number of Sample Bottles Received: 71

Comments:

Chain of Custody Fully Completed? Yes No N/A
 Correct Containers Received? Yes No N/A
 Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

HCl 2400468	61000 mL	Cooler 1 : D-4, D-6, D-7, D-8
HCl 20358	644 mL	Cooler 2 : E-2, E-1 DUP
P1000 mL		Cooler 3 : WW-2, WW-3, U-3/WW-4
P 250 mL		Cooler 4 : E-1, U-2/WW-5
P 125 mL		

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: Kathleen A. Sattler Date/Time: 12-12-24

Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\12232024 hG245.wszf

Creation Date: 12/23/2024 9:47:54 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	12/23/24 10:58:40 am	0.000	1533	0.67	-9.50		N/A
Replicates		1533.9 1535.0 1519.4 1544.0						
Standard #1 (0.1 ug/L)	STD	12/23/24 11:01:12 am	0.100	2424	1.52	-56.45		N/A
Replicates		2412.1 2387.6 2420.3 2475.1						
Standard #2 (0.5 ug/L)	STD	12/23/24 11:03:44 am	0.500	9720	0.57	-21.88		N/A
Replicates		9648.6 9705.0 9775.0 9751.8						
Standard #3 (2.0 ug/L)	STD	12/23/24 11:06:16 am	2.000	36208	0.61	55.72		N/A
Replicates		35958.3 36101.4 36312.9 36457.7						
Standard #4 (5.0 ug/L)	STD	12/23/24 11:08:48 am	5.000	87038	1.97	83.18		N/A
Replicates		88839.0 87914.0 86486.0 84911.8						
Standard #5 (10.0 ug/L)	STD	12/23/24 11:11:20 am	10.000	168732	1.46	-51.08		N/A
Replicates		171465.9 169837.7 167854.2 165770.9						

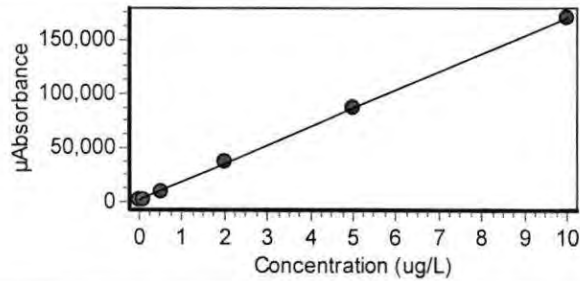
Calibration

Equation: $A = 1692.579 + 16789.714C$

R2: 0.99979

SEE: 1074.6550

Flags: C



ICV	ICV	12/23/24 11:24:31 am	-0.099	27	1.00	Q	-2.48
Replicates		45.8 20.5 7.2 33.5					
ICV	ICV	12/23/24 11:27:02 am	1.340	24233	1.59	Q	33.56
Replicates		23801.6 24116.4 24371.6 24640.6					
CCV (95-105%)	OPR	12/23/24 11:29:35 am	5.210	89178	2.08		104.21
Replicates		90995.3 90242.7 88553.7 86921.1					
CCB	CCB	12/23/24 11:32:06 am	-0.027	1240	7.21		N/A
Replicates		1276.3 1258.3 1216.1 1208.8					
BLANK	MB	12/23/24 11:34:37 am	-0.085	271	1.22		N/A
Replicates		263.6 293.8 272.3 252.9					
LCS	LCS	12/23/24 11:37:08 am	1.320	23878	1.49	L	33.03
Replicates		23488.1 23741.0 24051.6 24232.8					
WEL0554-01	UNK	12/23/24 11:39:39 am	-0.086	255	1.06		N/A
Replicates		251.5 271.2 235.9 262.2					

BEL0848

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
MS1	UNK	12/23/24 11:42:11 am	2.990	51852	1.21			N/A
Replicates		51147.3 51604.5 52119.5 52537.8						
MSD1	UNK	12/23/24 11:44:42 am	2.820	49008	0.81			N/A
Replicates		48560.6 48851.5 49181.8 49439.8						
MSA	UNK	12/23/24 11:47:14 am	2.780	48427	0.43			N/A
Replicates		48168.3 48424.2 48663.5 48451.7						
MSDA	UNK	12/23/24 11:49:46 am	3.340	57770	1.39			N/A
Replicates		56902.2 57412.8 58071.1 58693.6						
CCV	UNK	12/23/24 11:52:17 am	1.080	19767	0.57			N/A
Replicates		19651.3 19709.3 19840.6 19867.5						
LCS	UNK	12/23/24 11:54:48 am	1.040	19150	1.74			N/A
Replicates		18789.5 19037.7 19279.9 19492.4						
WEL0554-02	UNK	12/23/24 11:57:20 am	-0.093	135	2.23			N/A
Replicates		149.4 177.3 108.5 104.6						
WEL0554-03	UNK	12/23/24 11:59:52 am	-0.086	240	1.17			N/A
Replicates		252.0 252.8 237.8 216.3						
WEL0554-04	UNK	12/23/24 12:02:25 pm	-0.093	135	0.64			N/A
Replicates		146.2 126.9 139.6 125.6						
WEL0554-05	UNK	12/23/24 12:04:57 pm	-0.073	460	2.12			N/A
Replicates		486.5 478.2 441.4 434.2						
WEL0554-06	UNK	12/23/24 12:07:28 pm	-0.093	128	0.91			N/A
Replicates		146.0 118.1 132.3 114.8						
MS2	UNK	12/23/24 12:09:59 pm	1.030	18941	1.80			N/A
Replicates		19346.5 19000.8 18782.1 18632.6						
MSD2	UNK	12/23/24 12:12:30 pm	1.210	22025	1.28			N/A
Replicates		22322.3 22129.0 21928.5 21719.4						
MSB	UNK	12/23/24 12:15:02 pm	0.846	15894	0.16			N/A
Replicates		15865.3 15902.4 15918.9 15888.9						
MSDB	UNK	12/23/24 12:17:33 pm	0.695	13354	0.62			N/A
Replicates		13271.8 13323.4 13380.5 13438.4						
WEL0554-07	UNK	12/23/24 12:20:05 pm	-0.101	1	1.70			N/A
Replicates		23.0 24.0 -8.6 -36.1						
WEL0554-08	UNK	12/23/24 12:22:36 pm	-0.097	72	0.94			N/A
Replicates		87.9 67.1 53.4 80.8						
WEL0554-09	UNK	12/23/24 12:25:08 pm	-0.102	-15	1.33			N/A
Replicates		16.9 -16.0 -29.0 -33.2						
WEL0554-10	UNK	12/23/24 12:27:40 pm	-0.089	198	1.21			N/A
Replicates		223.4 184.0 186.0 198.2						
WEL0554-11	UNK	12/23/24 12:30:13 pm	-0.087	235	0.63			N/A
Replicates		243.2 228.3 241.6 225.0						

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	% Recovery
MDL1	UNK	12/23/24 12:32:45 pm	0.004	1758	16.80			N/A
Replicates		1743.8 1756.1 1762.7 1769.6						
MDL2	UNK	12/23/24 12:35:17 pm	-0.016	1423	8.82			N/A
Replicates		1402.3 1403.3 1445.0 1442.8						
MDL3	UNK	12/23/24 12:37:48 pm	-0.011	1507	24.74			N/A
Replicates		1459.9 1476.6 1549.8 1543.3						
BLANK	UNK	12/23/24 12:40:20 pm	-0.099	37	0.73			N/A
Replicates		54.8 33.9 27.4 32.2						
LCS	UNK	12/23/24 12:42:51 pm	1.150	20957	0.46			N/A
Replicates		20856.5 20915.9 20998.9 21054.7						
LCS2	UNK	12/23/24 12:45:22 pm	0.361	7754	1.34			N/A
Replicates		7660.2 7718.5 7793.5 7844.9						
LCS3	UNK	12/23/24 12:47:54 pm	0.811	15307	0.92			N/A
Replicates		15170.2 15240.7 15367.5 15450.0						
LCS4	UNK	12/23/24 12:51:30 pm	0.853	16009	1.77			N/A
Replicates		15717.2 15896.9 16133.0 16289.9						
LCS RE	UNK	12/23/24 12:55:38 pm	0.995	18406	0.76			N/A
Replicates		18269.5 18342.1 18453.8 18558.3						
BLK	UNK	12/23/24 12:58:49 pm	-0.019	1374	3.21			N/A
Replicates		1371.0 1386.4 1361.7 1375.4						
CK	UNK	12/23/24 01:01:21 pm	1.870	33108	0.14			N/A
Replicates		33170.8 33080.7 33083.7 33096.2						
CK2	UNK	12/23/24 01:03:53 pm	4.510	77418	0.16			N/A
Replicates		77598.5 77342.3 77353.1 77376.5						

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10011.D Vial: 7
 Acq On : 19 Dec 2024 9:37 pm Operator: BAM
 Sample : BEL0611-BLK1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:07 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	136196318	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	156187393	49.681 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.36%

Target Compounds

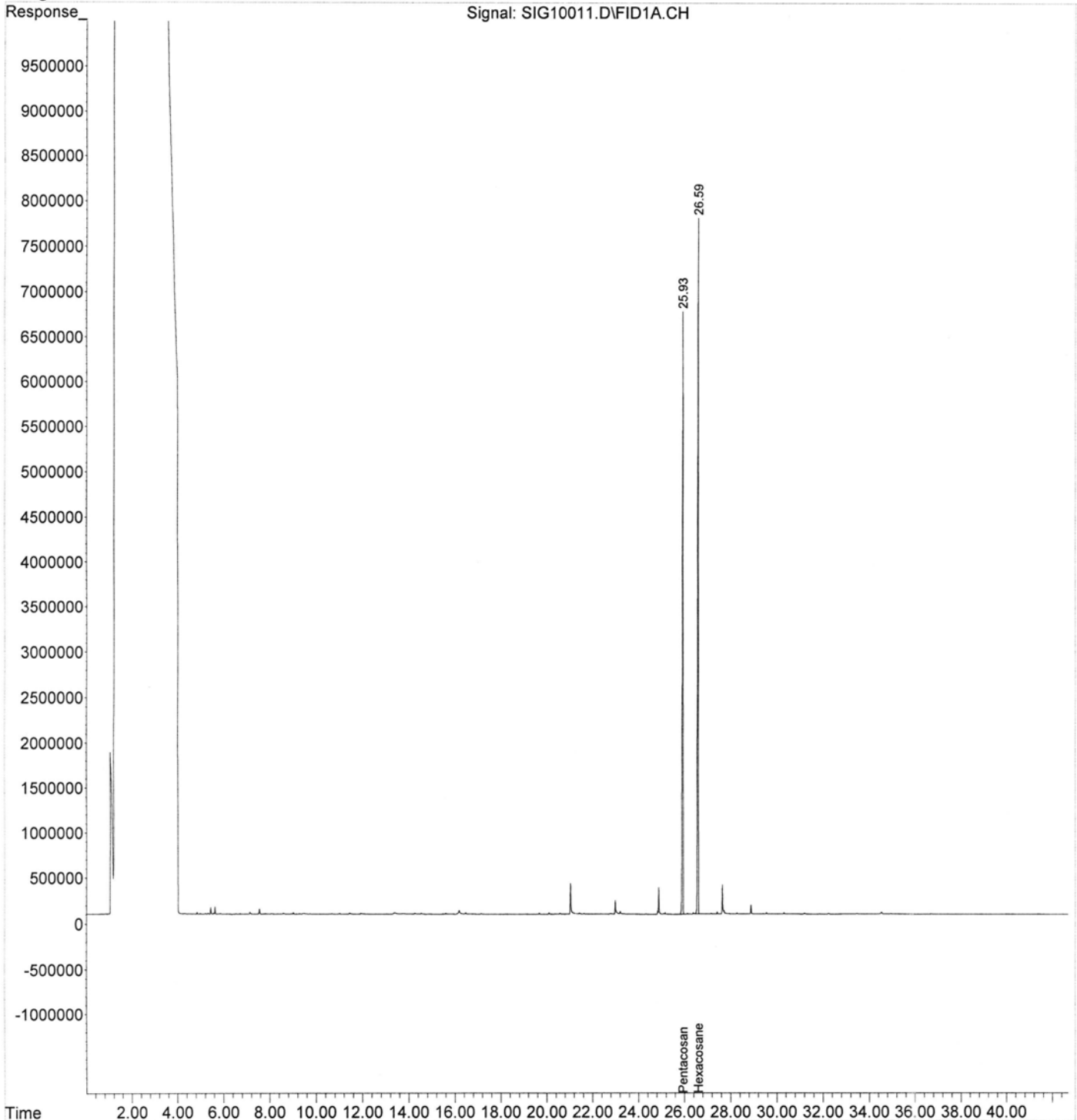
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10011.D Vial: 7
Acq On : 19 Dec 2024 9:37 pm Operator: BAM
Sample : BELO611-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:09 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10012.D Vial: 8
 Acq On : 19 Dec 2024 10:33 pm Operator: BAM
 Sample : BELO611-BS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:08 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	169991681	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	198742799	50.650 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 101.30%			

Target Compounds

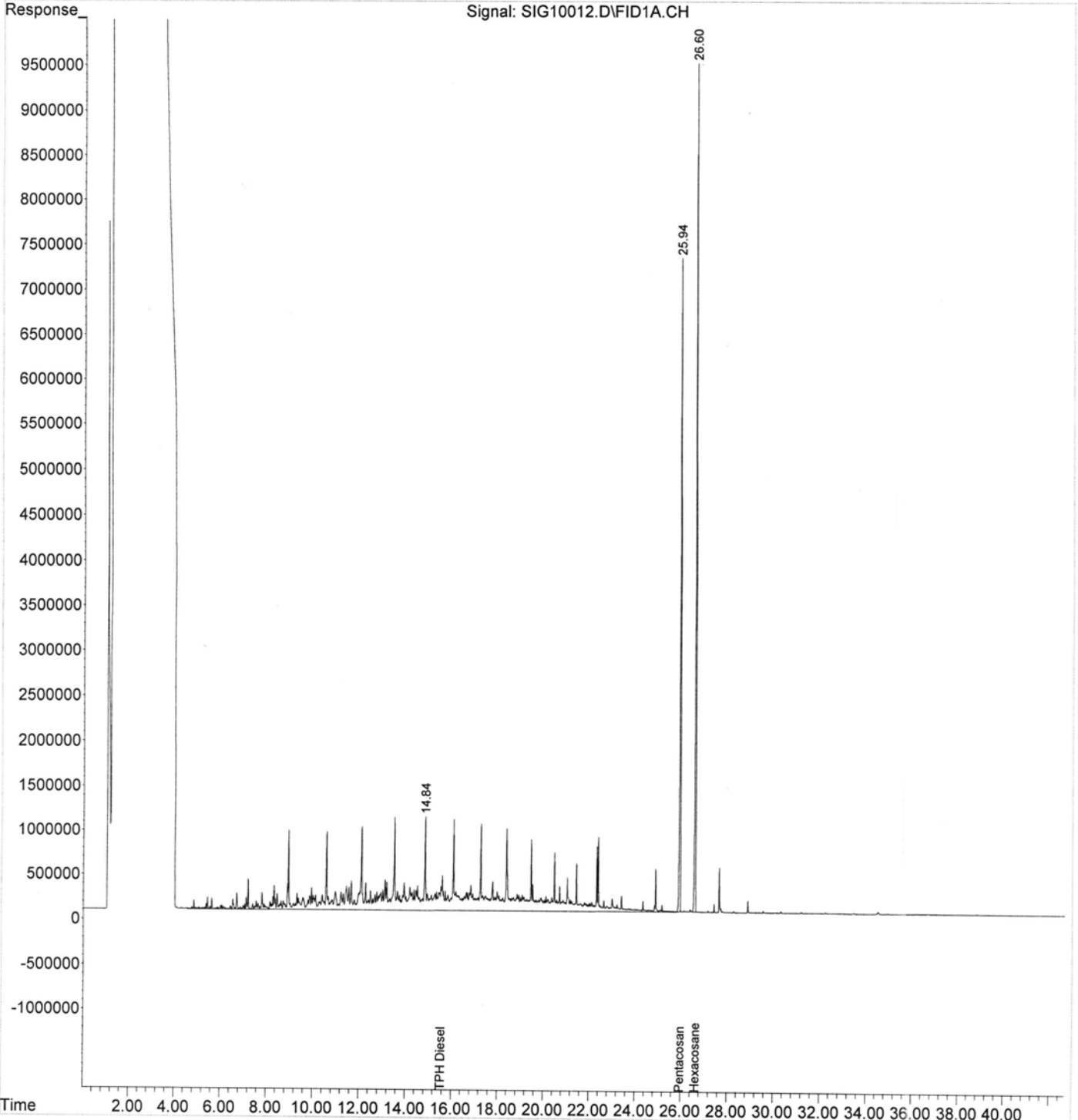
3) H TPH Diesel (C12-C14)	15.50	1313238432	427.895 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10012.D Vial: 8
Acq On : 19 Dec 2024 10:33 pm Operator: BAM
Sample : BELO611-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:09 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10011.D Vial: 7
 Acq On : 19 Dec 2024 9:37 pm Operator: BAM
 Sample : BELO611-BLK1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:07 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	136196318	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	156187393	49.681 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 99.36%			

Target Compounds

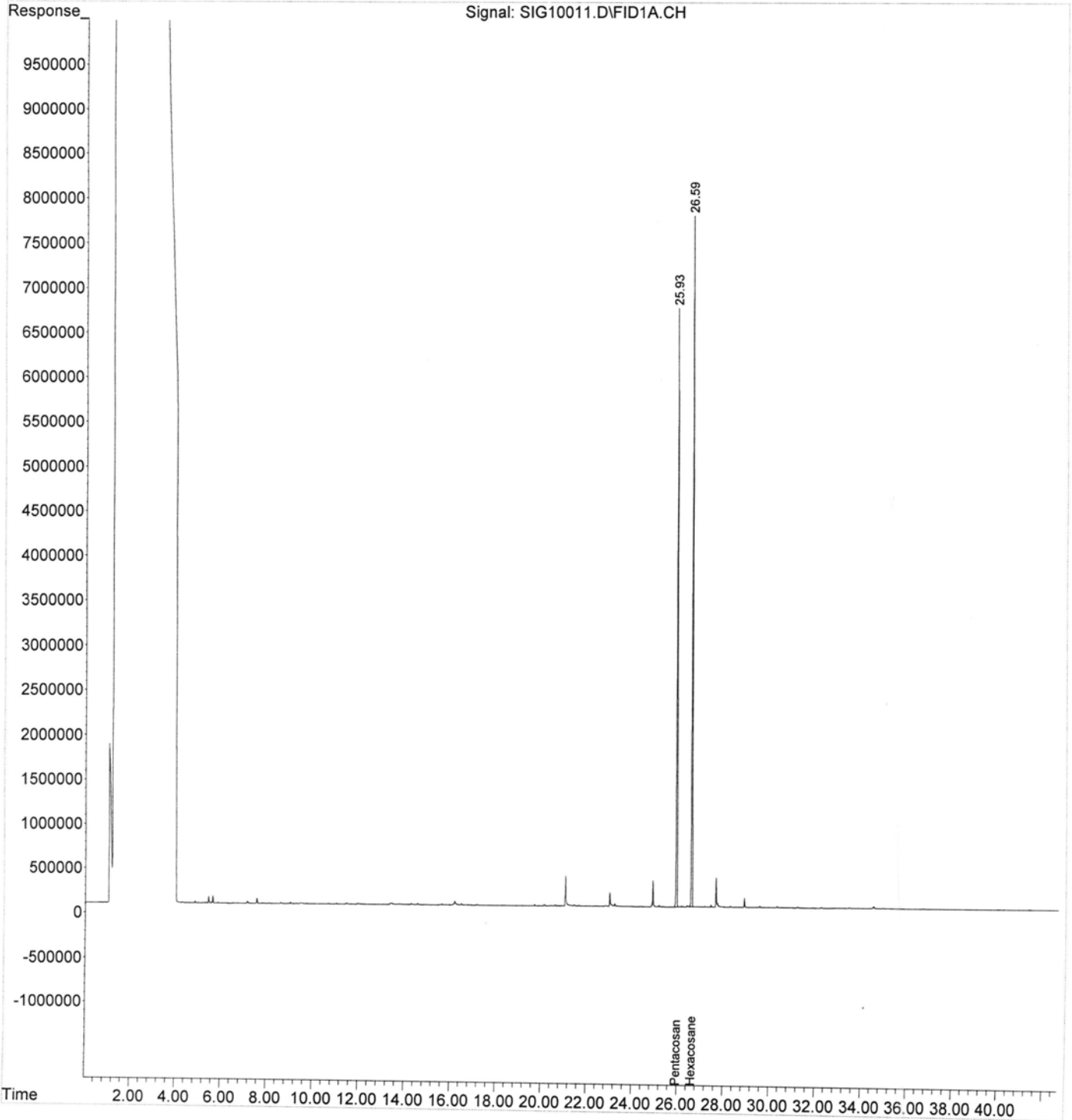
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10011.D Vial: 7
Acq On : 19 Dec 2024 9:37 pm Operator: BAM
Sample : BELO611-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:09 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10012.D Vial: 8
 Acq On : 19 Dec 2024 10:33 pm Operator: BAM
 Sample : BELO611-BS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:08 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	169991681	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	198742799	50.650 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 101.30%			

Target Compounds

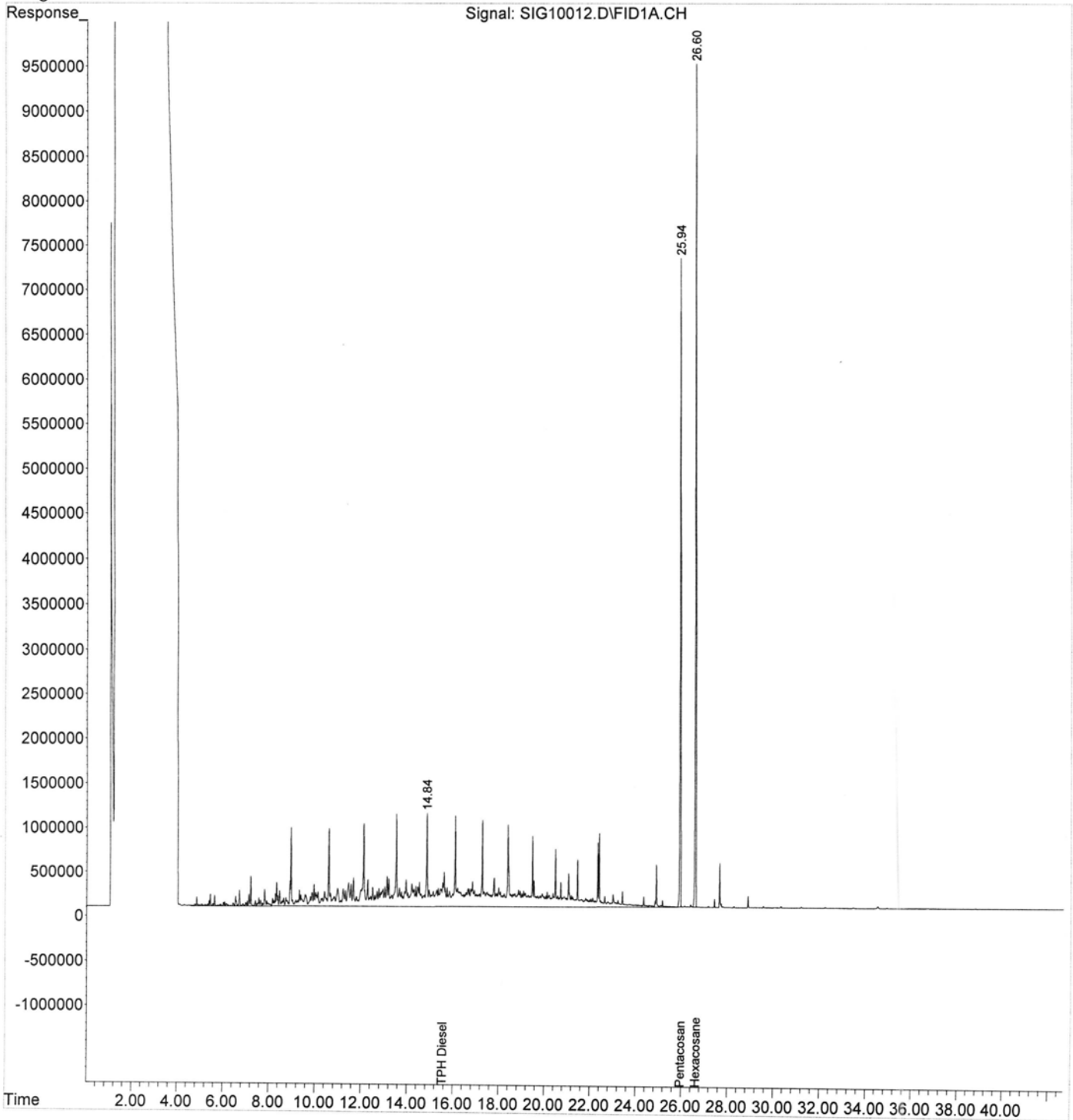
3) H TPH Diesel (C12-C14)	15.50	1313238432	427.895 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10012.D Vial: 8
Acq On : 19 Dec 2024 10:33 pm Operator: BAM
Sample : BELO611-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:09 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10013.D Vial: 9
 Acq On : 19 Dec 2024 11:28 pm Operator: BAM
 Sample : BELO611-BSD1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:09 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	166377636	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	194476948	50.639 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 101.28%			

Target Compounds

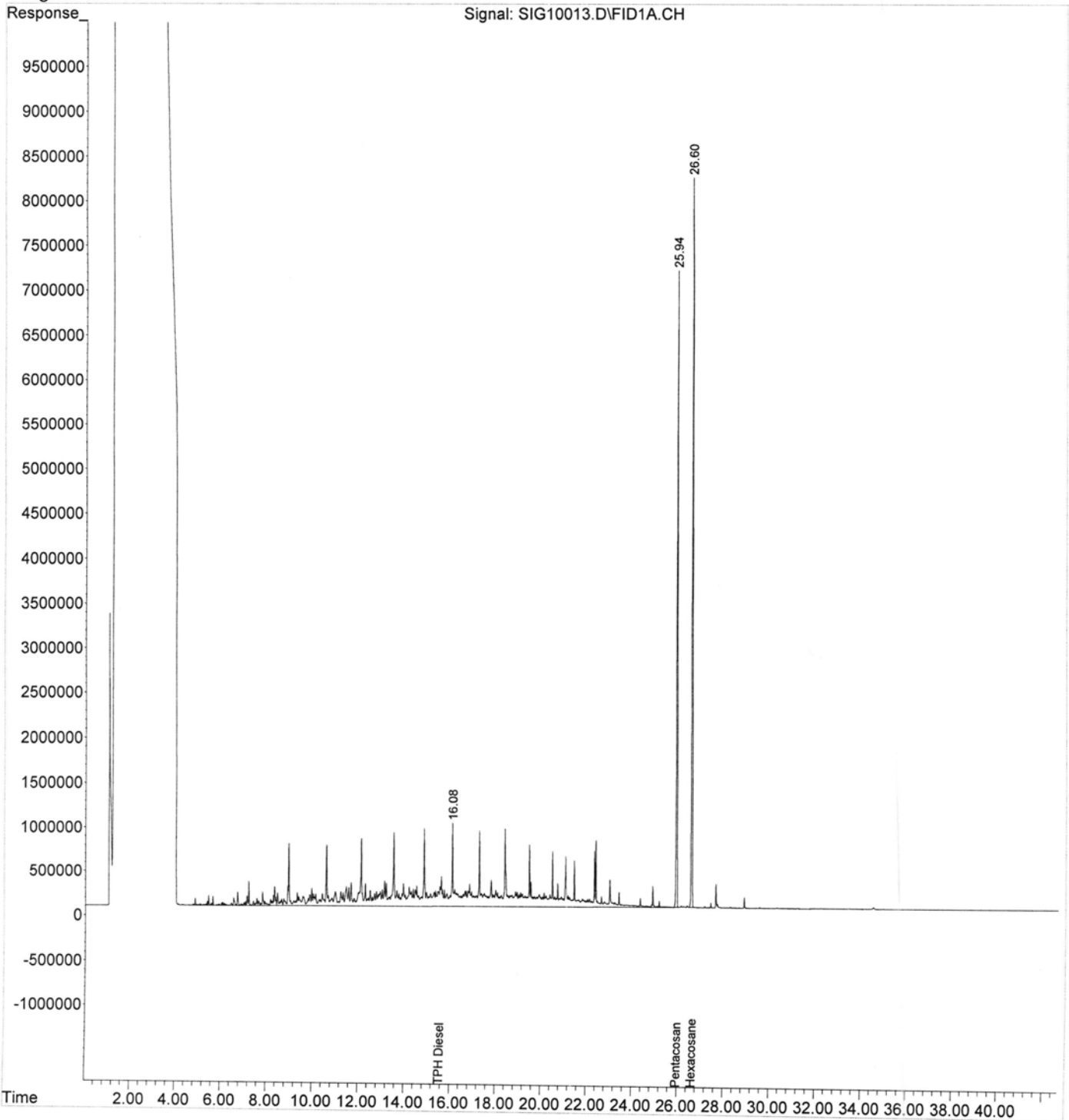
3) H TPH Diesel (C12-C14)	15.50	1126332190	374.967 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10013.D Vial: 9
Acq On : 19 Dec 2024 11:28 pm Operator: BAM
Sample : BELO611-BSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:10 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10014.D Vial: 10
 Acq On : 19 Dec 2024 12:24 am Operator: BAM
 Sample : WEL0554-01 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:10 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	134250175	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	156135183	50.385 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 100.77%

Target Compounds

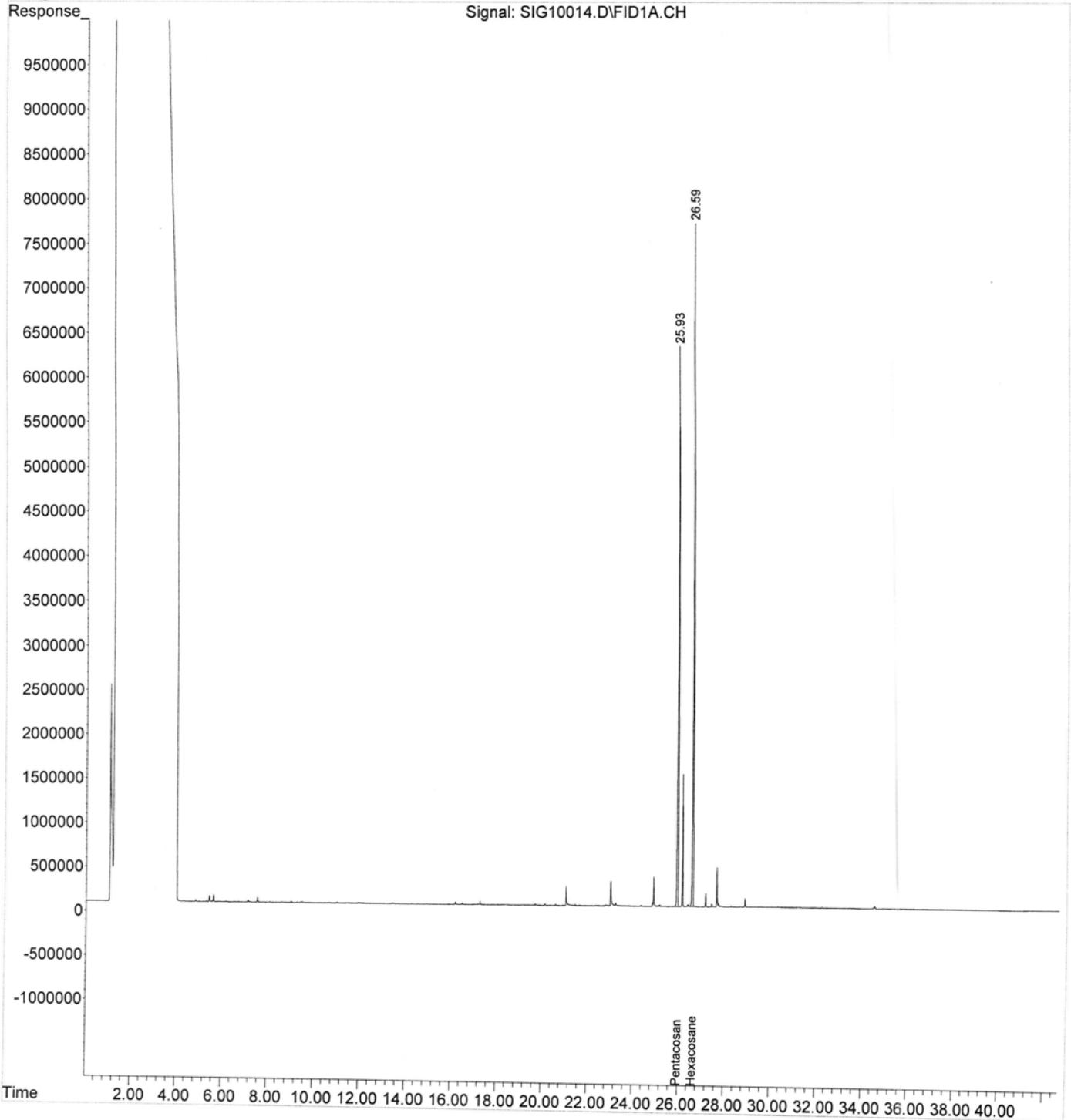
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10014.D Vial: 10
Acq On : 19 Dec 2024 12:24 am Operator: BAM
Sample : WEL0554-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:10 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10015.D Vial: 11
 Acq On : 20 Dec 2024 1:19 am Operator: BAM
 Sample : WEL0554-02 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:11 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.92	115494788	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	140249089	52.608 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 105.22%

Target Compounds

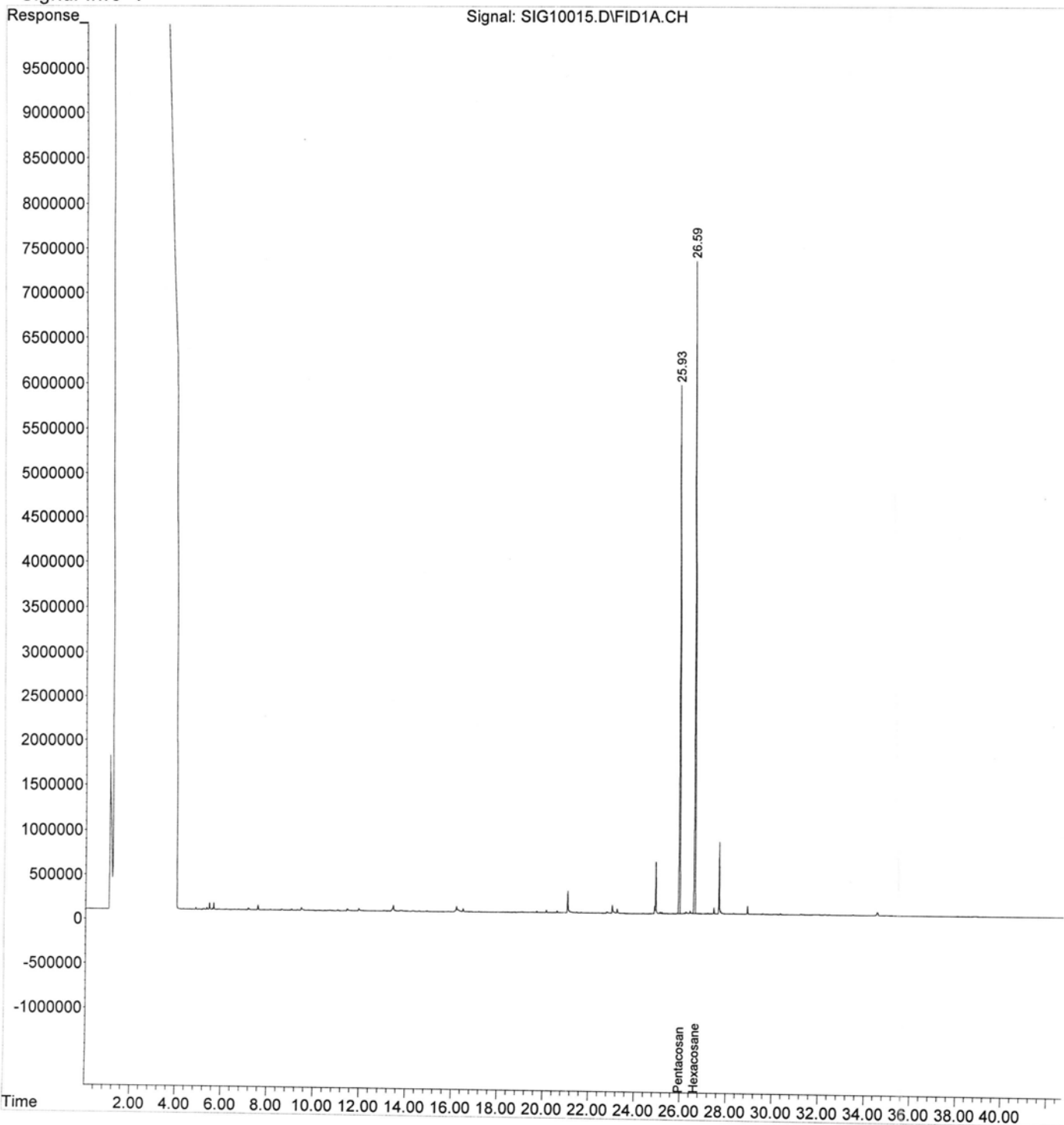
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10015.D Vial: 11
Acq On : 20 Dec 2024 1:19 am Operator: BAM
Sample : WEL0554-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:11 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10016.D Vial: 12
 Acq On : 20 Dec 2024 2:15 am Operator: BAM
 Sample : WEL0554-03 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:12 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	203220005	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.61	228549690	48.722 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 97.44%

Target Compounds

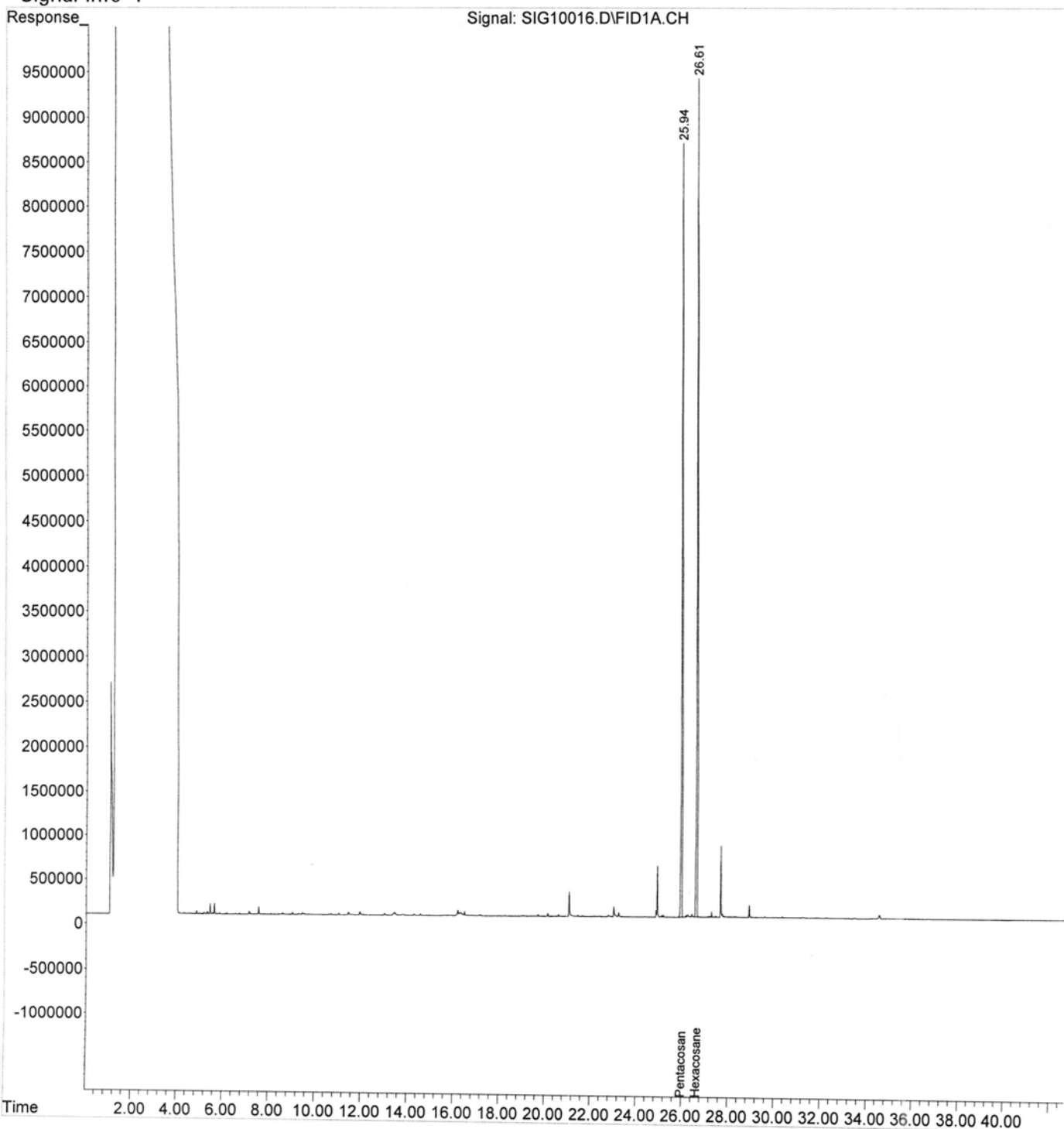
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10016.D Vial: 12
Acq On : 20 Dec 2024 2:15 am Operator: BAM
Sample : WEL0554-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:11 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10017.D Vial: 13
 Acq On : 20 Dec 2024 3:10 am Operator: BAM
 Sample : WEL0554-04 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:13 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	152231304	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	175019061	49.807 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.61%

Target Compounds

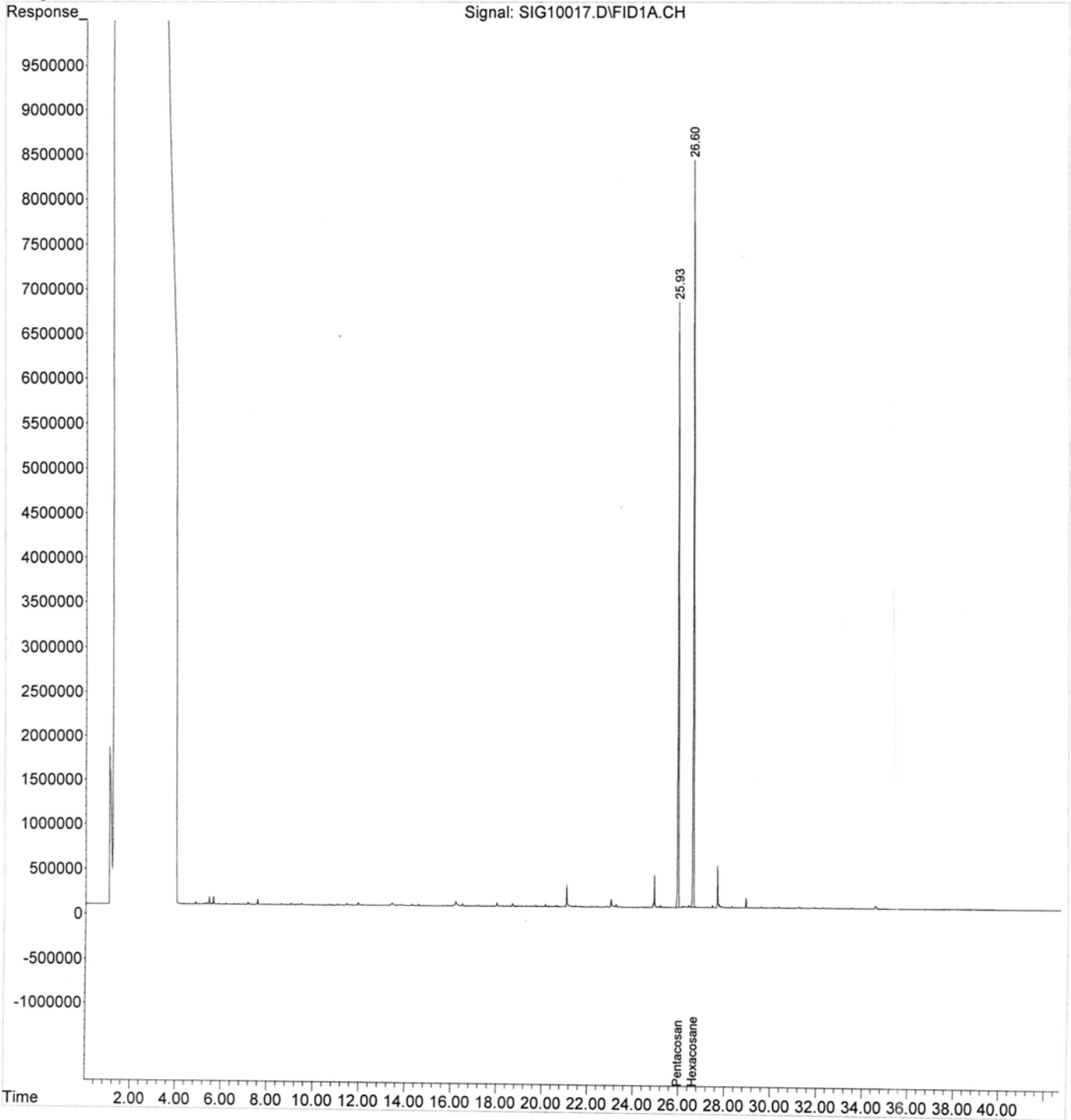
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10017.D Vial: 13
Acq On : 20 Dec 2024 3:10 am Operator: BAM
Sample : WEL0554-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:12 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10018.D Vial: 14
 Acq On : 20 Dec 2024 4:05 am Operator: BAM
 Sample : WEL0554-05 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:14 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	192598519	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	221841519	49.900 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 99.80%			

Target Compounds

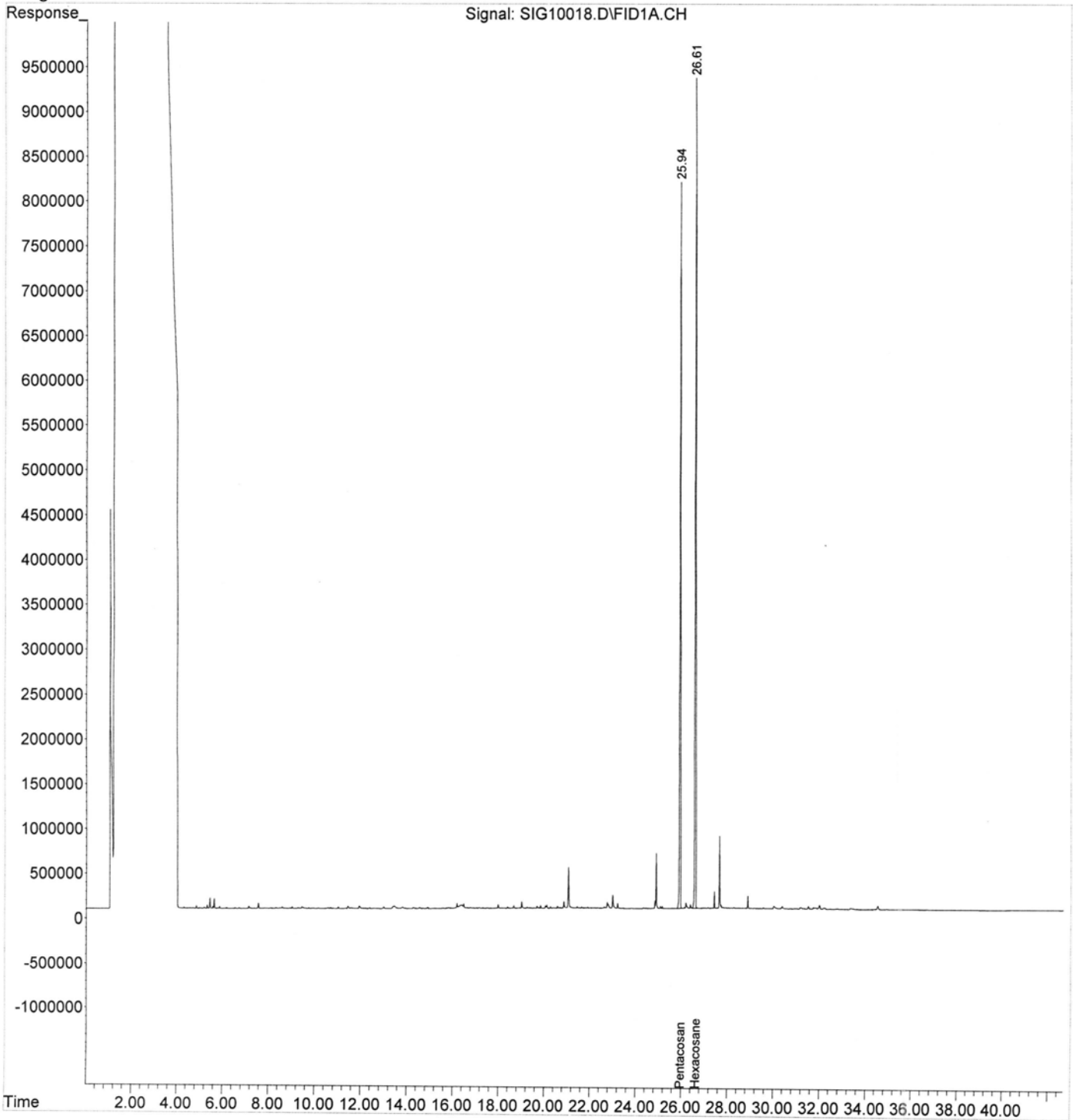
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10018.D Vial: 14
Acq On : 20 Dec 2024 4:05 am Operator: BAM
Sample : WEL0554-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:12 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10019.D Vial: 15
 Acq On : 20 Dec 2024 5:00 am Operator: BAM
 Sample : WEL0554-06 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:15 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.92f	117131803	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.57f	61960582	22.917 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 45.83%#			

Target Compounds

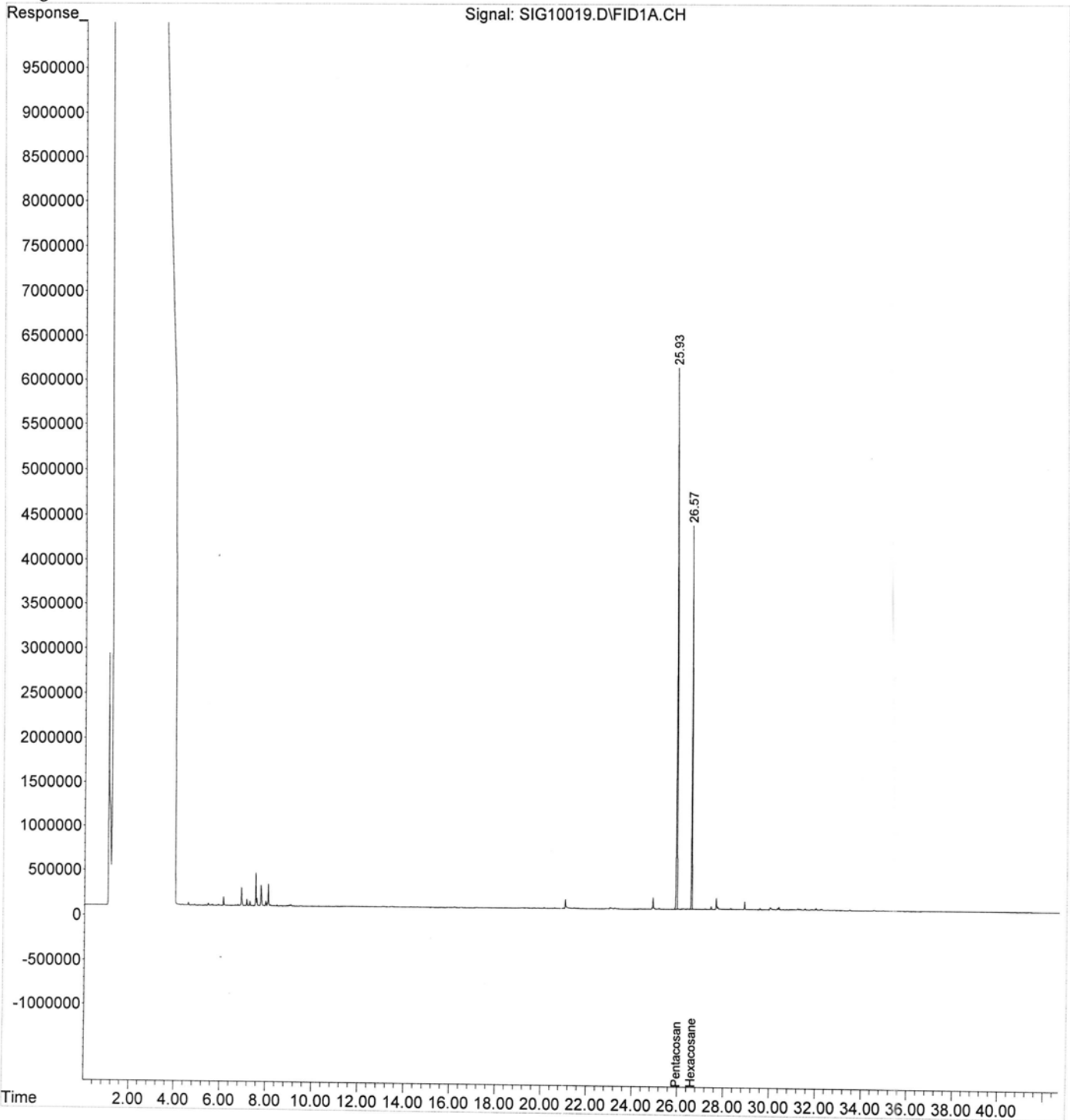
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10019.D Vial: 15
Acq On : 20 Dec 2024 5:00 am Operator: BAM
Sample : WEL0554-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:13 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10026.D Vial: 16
 Acq On : 20 Dec 2024 11:29 am Operator: BAM
 Sample : WEL0554-07 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:24 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	184540492	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	128466255	30.159 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 60.32%			

Target Compounds

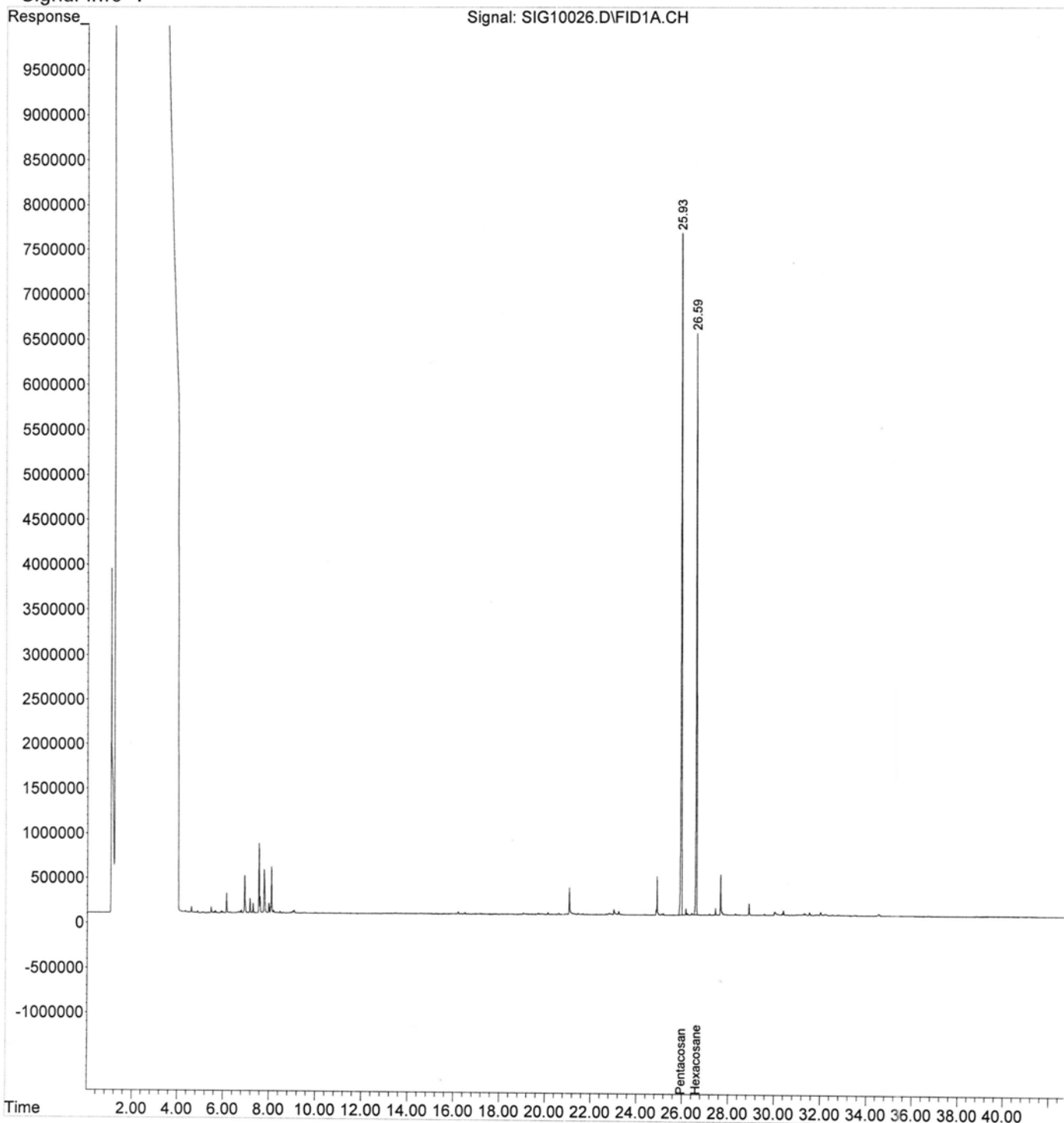
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10026.D Vial: 16
Acq On : 20 Dec 2024 11:29 am Operator: BAM
Sample : WEL0554-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:16 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10027.D Vial: 17
 Acq On : 20 Dec 2024 12:25 pm Operator: BAM
 Sample : WEL0554-08 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:25 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	133830701	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	160515911	51.961 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 103.92%			

Target Compounds

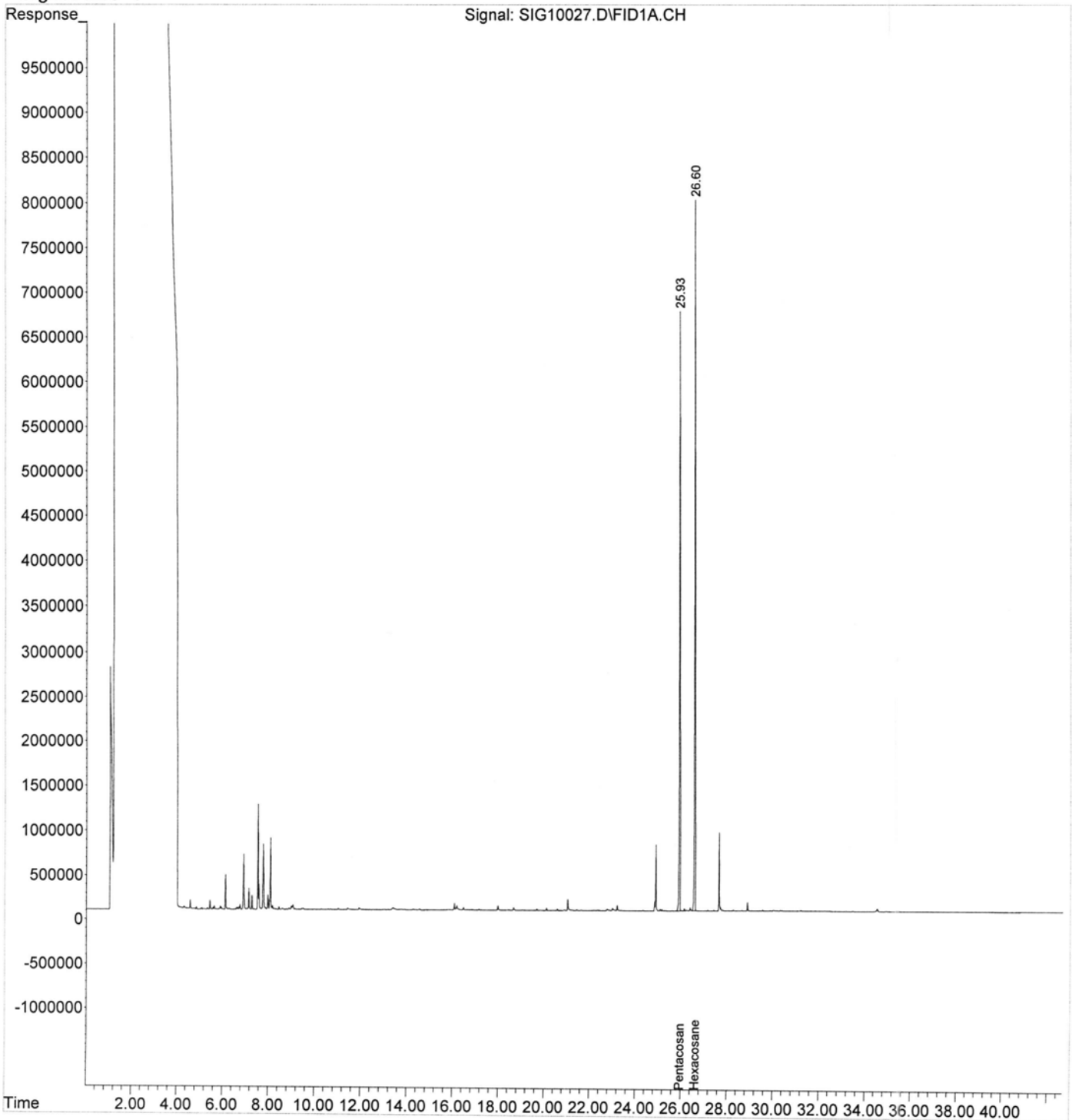
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10027.D Vial: 17
Acq On : 20 Dec 2024 12:25 pm Operator: BAM
Sample : WEL0554-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:16 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10028.D Vial: 18
 Acq On : 20 Dec 2024 1:21 pm Operator: BAM
 Sample : WEL0554-09 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:26 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

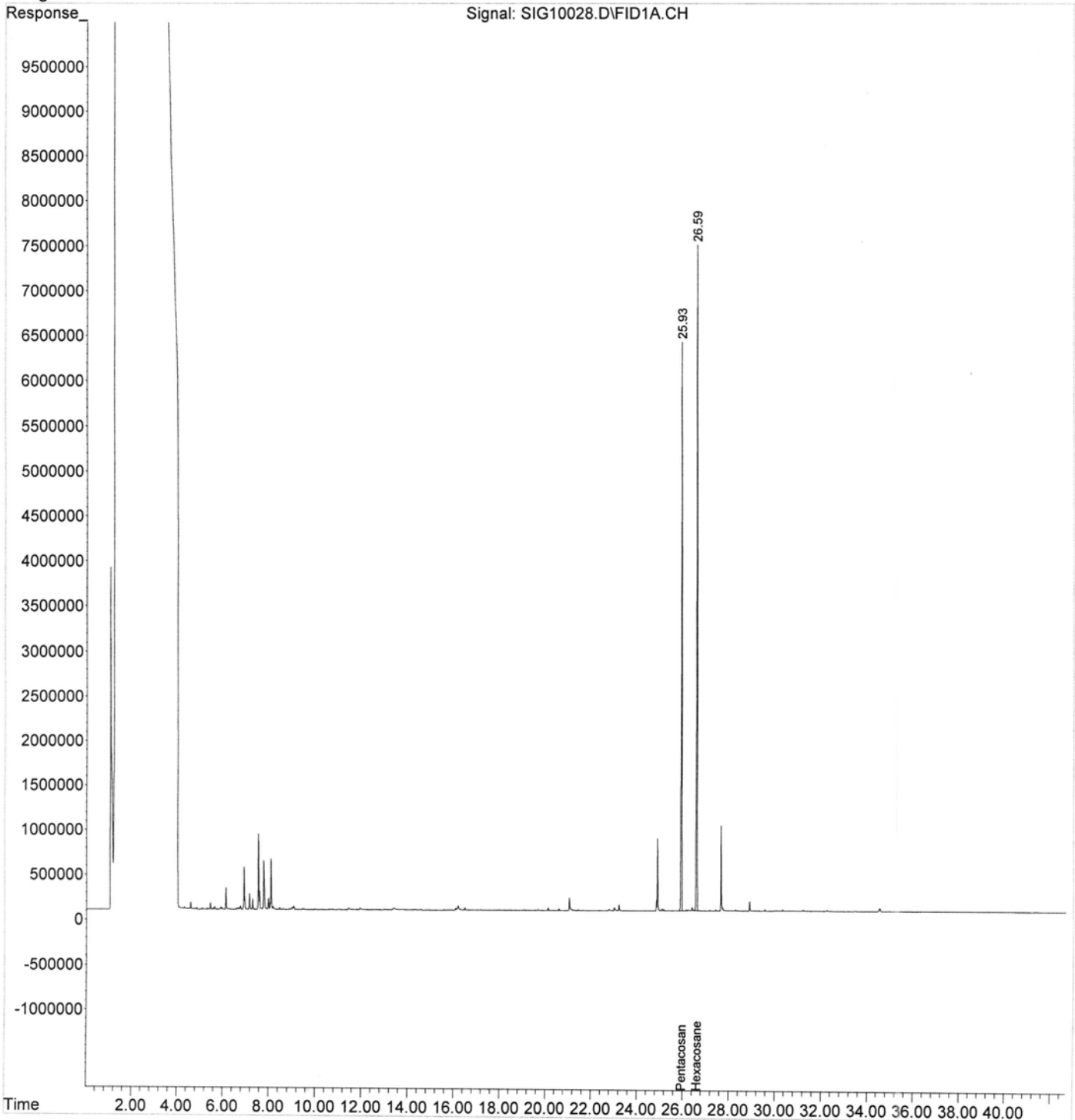
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.92f	125729669	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.59	146038958	50.320 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 100.64%			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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 : Z:\HPCHEM\1\2024DATA\121924\SIG10028.D Vial: 18
Acq On : 20 Dec 2024 1:21 pm Operator: BAM
Sample : WEL0554-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:17 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10029.D Vial: 19
 Acq On : 20 Dec 2024 2:17 pm Operator: BAM
 Sample : WEL0554-10 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:27 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

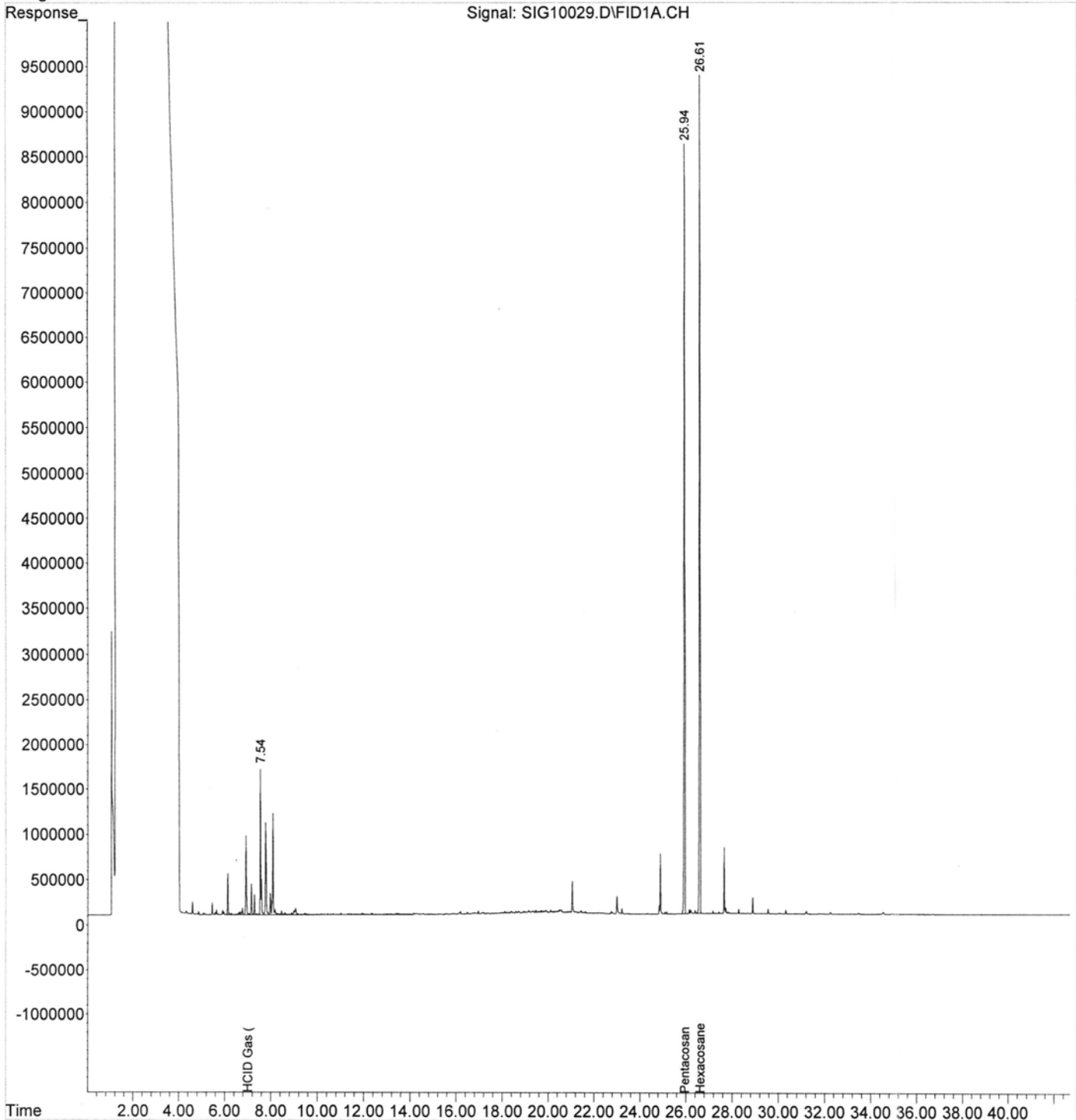
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.94	198846638	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.61	220125105	47.958 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 95.92%			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	7.00	151052441	163.687 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 : Z:\HPCHEM\1\2024DATA\121924\SIG10029.D Vial: 19
Acq On : 20 Dec 2024 2:17 pm Operator: BAM
Sample : WEL0554-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:17 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10030.D Vial: 20
 Acq On : 20 Dec 2024 3:14 pm Operator: BAM
 Sample : WEL0554-11 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:28 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	133053068	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	152384320	49.617 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 99.23%			

Target Compounds

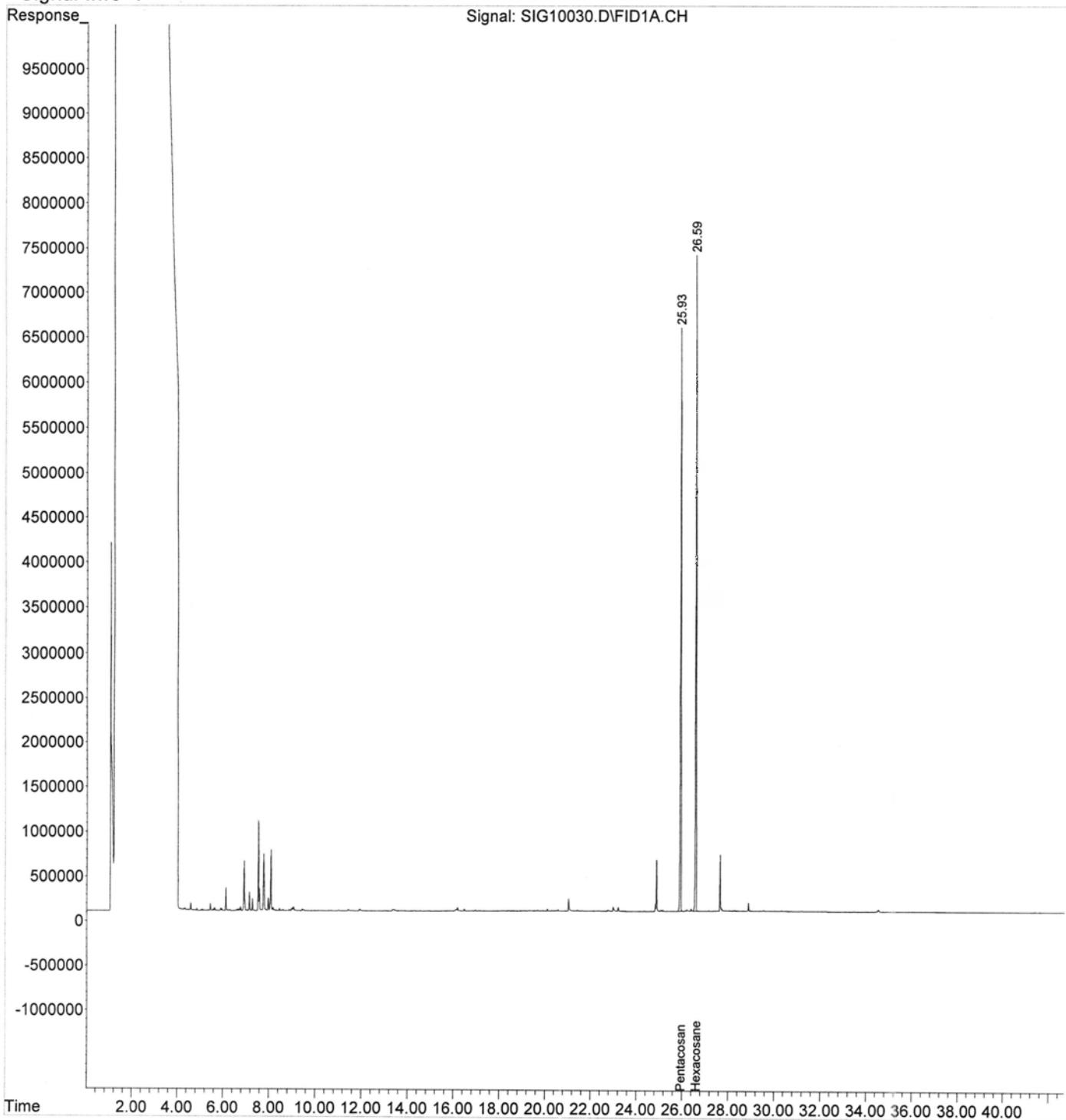
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10030.D Vial: 20
Acq On : 20 Dec 2024 3:14 pm Operator: BAM
Sample : WEL0554-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:18 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10033.D Vial: 23
 Acq On : 20 Dec 2024 6:04 pm Operator: BAM
 Sample : BELO611-DUP1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 23 14:58:31 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.93	141314826	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	162351686	49.772 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.54%

Target Compounds

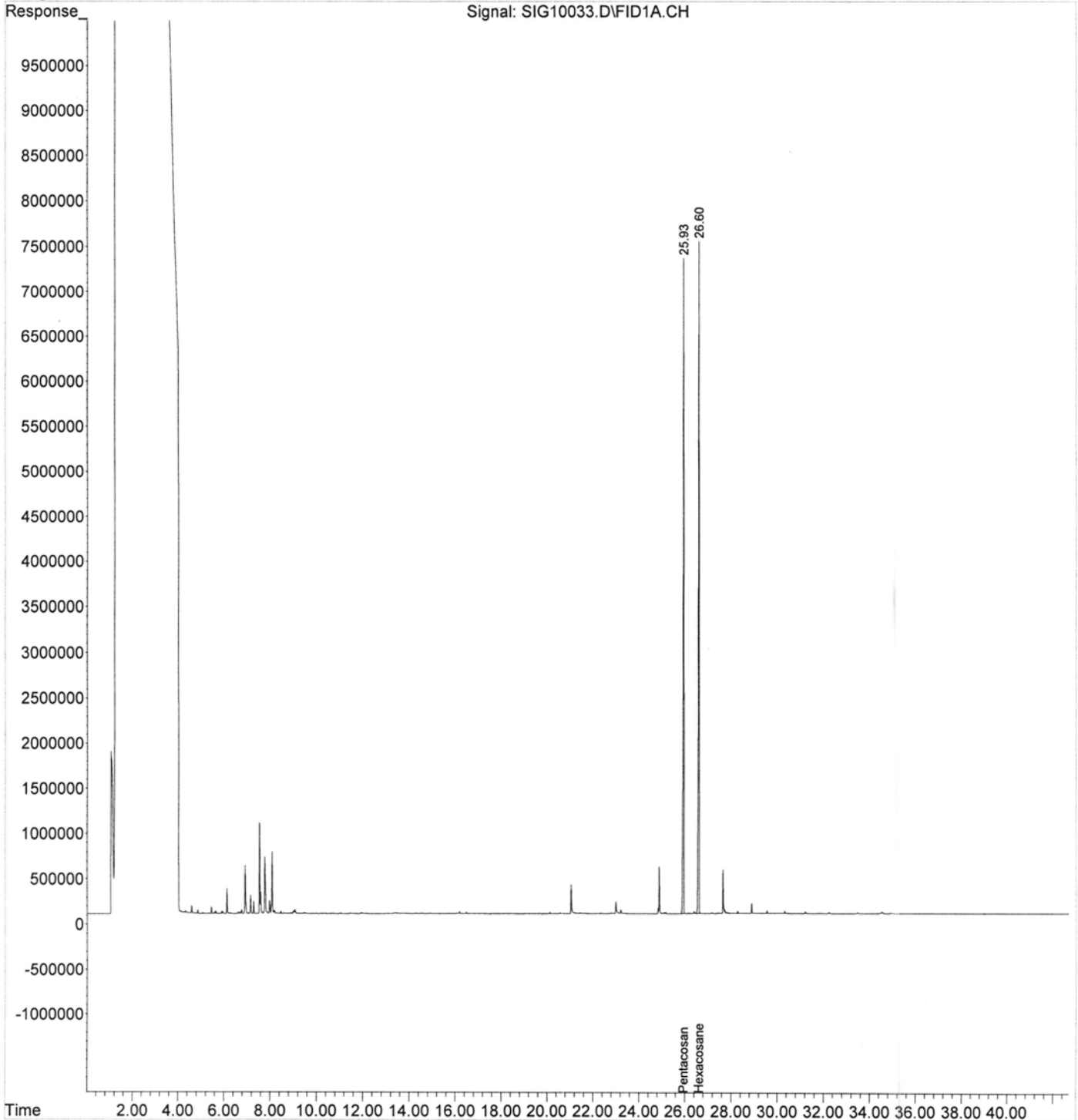
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121924\SIG10033.D Vial: 23
Acq On : 20 Dec 2024 6:04 pm Operator: BAM
Sample : BEL0611-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:19 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10008.D Vial: 8
 Acq On : 13 Dec 2024 8:28 pm Operator: BAM
 Sample : BELO611-BLK2 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:29 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	125886536	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	139412112	47.977 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 95.95%			

Target Compounds

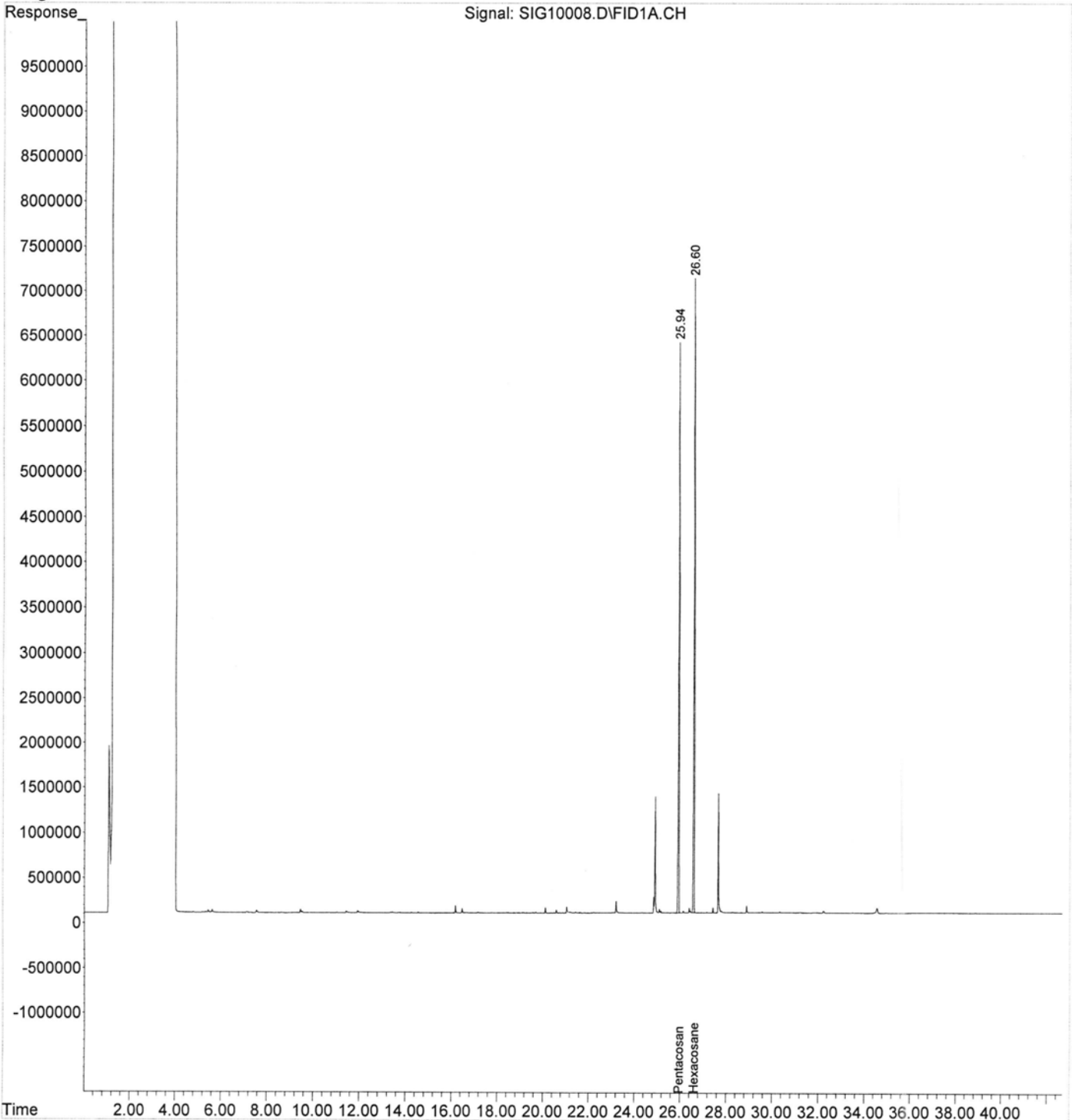
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10008.D Vial: 8
Acq On : 13 Dec 2024 8:28 pm Operator: BAM
Sample : BELO611-BLK2 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 16 10:24 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10009.D Vial: 9
 Acq On : 13 Dec 2024 9:24 pm Operator: BAM
 Sample : BELO611-BS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:30 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	165054252	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.61	183594760	48.189 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 96.38%			

Target Compounds

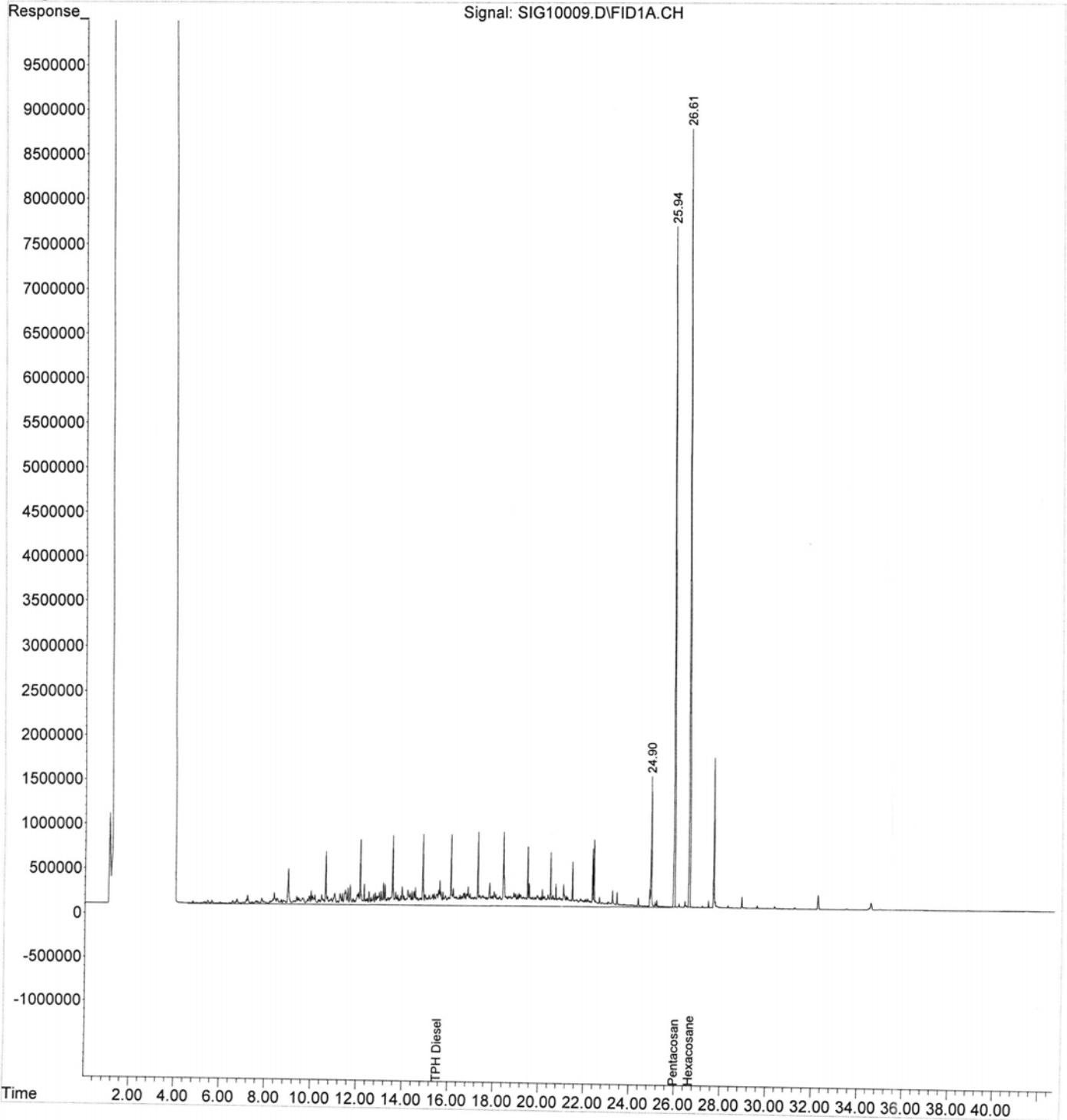
3) H TPH Diesel (C12-C14)	15.50	919437384	308.544 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10009.D Vial: 9
Acq On : 13 Dec 2024 9:24 pm Operator: BAM
Sample : BELO611-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 16 9:05 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10010.D Vial: 10
 Acq On : 13 Dec 2024 10:20 pm Operator: BAM
 Sample : BELO611-BSD1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:31 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	166784558	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.61	190651447	49.522 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.04%

Target Compounds

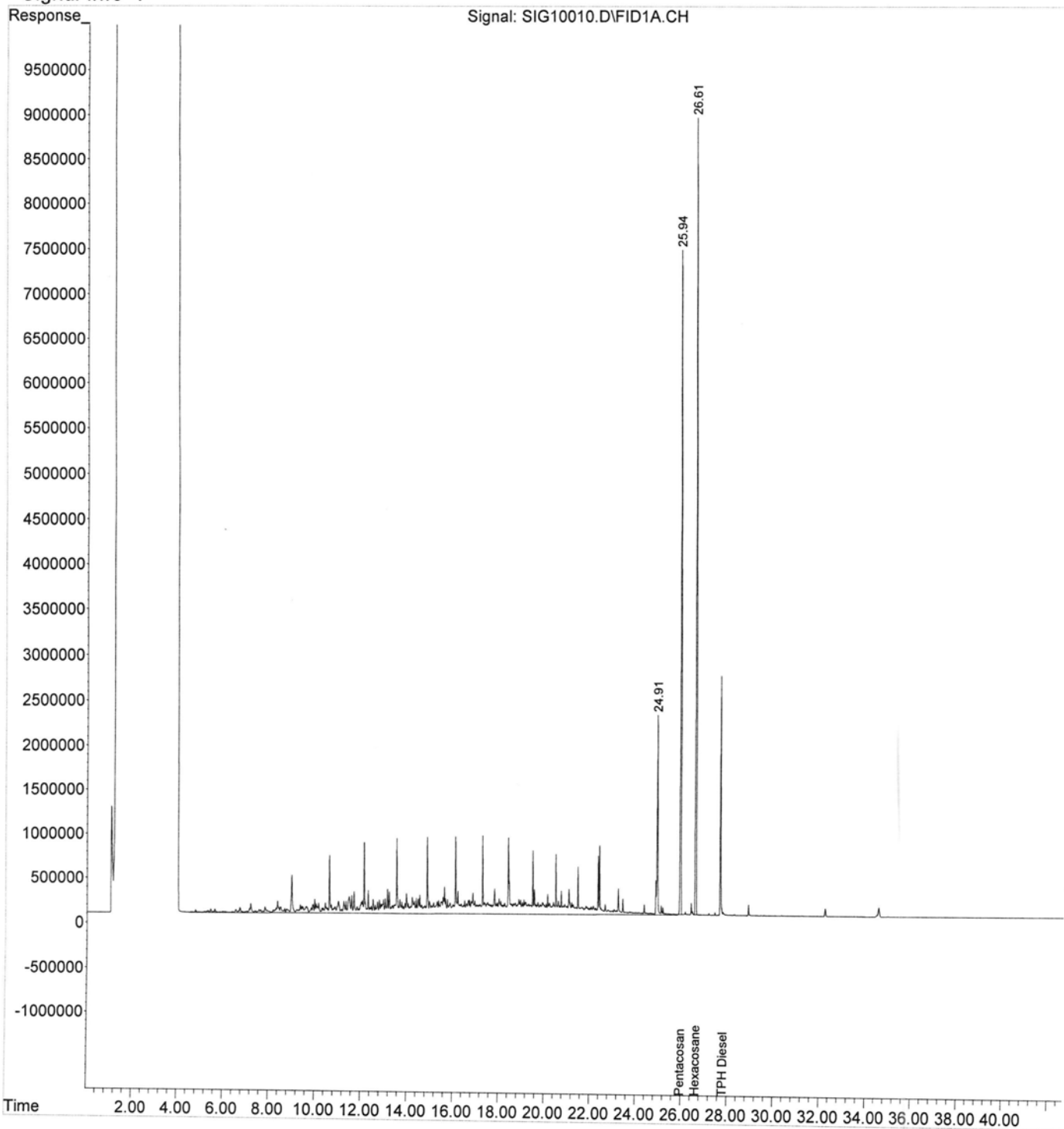
3) H TPH Diesel (C12-C14)	27.80f	1002051923	332.779 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10010.D Vial: 10
Acq On : 13 Dec 2024 10:20 pm Operator: BAM
Sample : BELO611-BSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 16 9:04 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10011.D Vial: 11
 Acq On : 13 Dec 2024 11:16 pm Operator: BAM
 Sample : WELO554-01 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:32 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	131370337	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	154889756	51.079 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 102.16%

Target Compounds

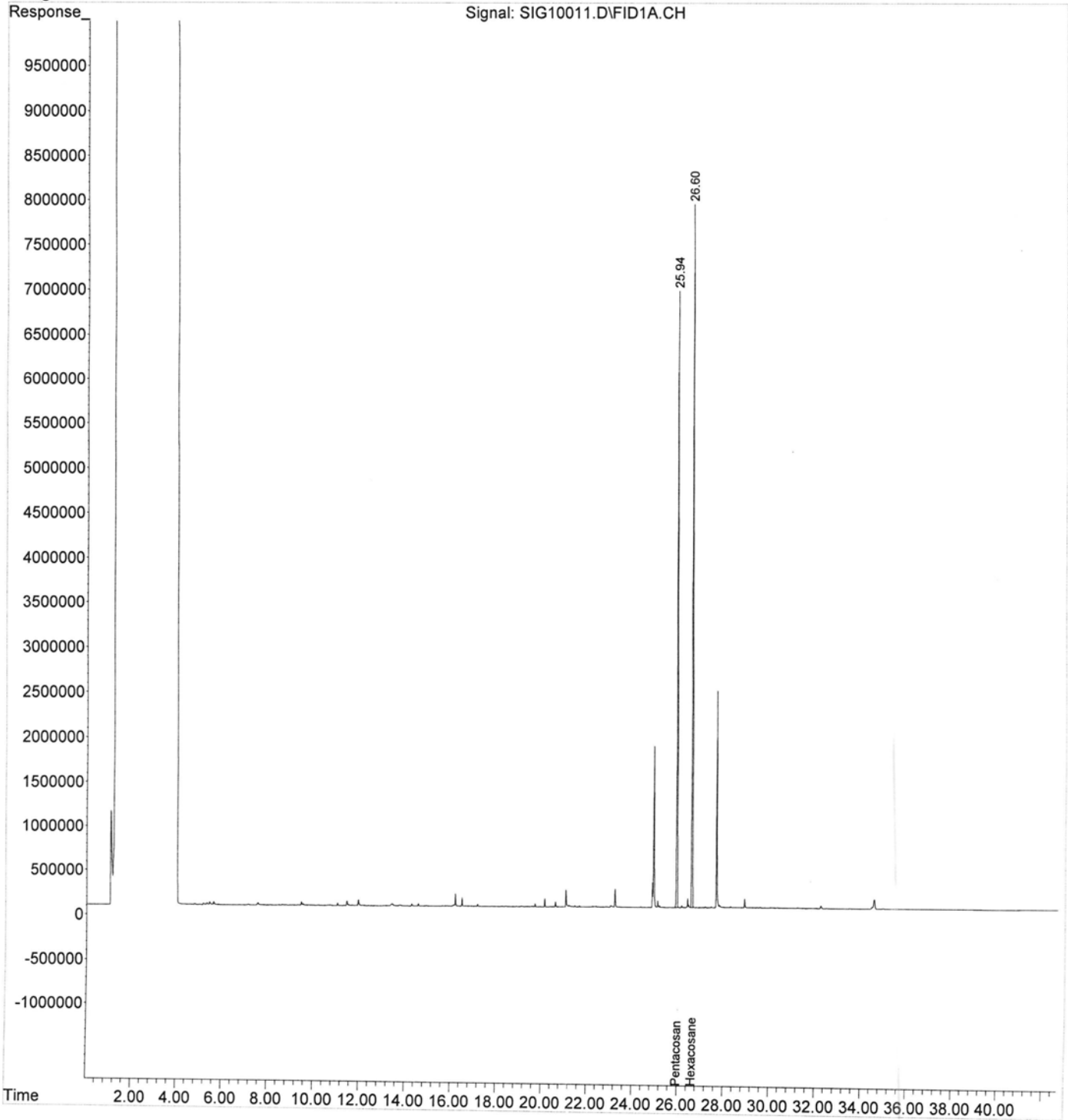
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10011.D Vial: 11
Acq On : 13 Dec 2024 11:16 pm Operator: BAM
Sample : WEL0554-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:25 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10012.D Vial: 12
 Acq On : 13 Dec 2024 12:12 am Operator: BAM
 Sample : WEL0554-02 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:33 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	166883834	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.61	192946340	50.088 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 100.18%

Target Compounds

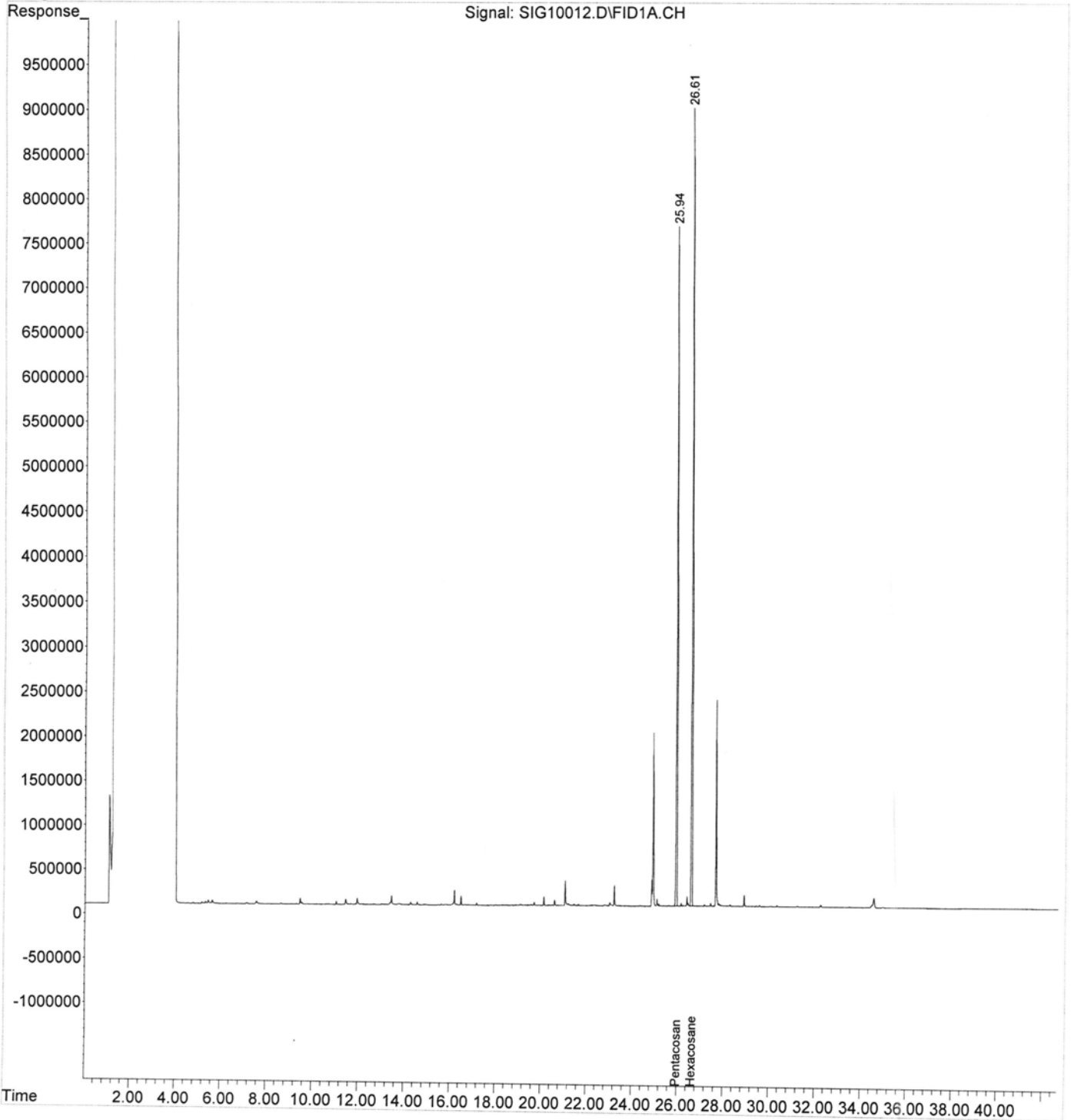
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10012.D Vial: 12
Acq On : 13 Dec 2024 12:12 am Operator: BAM
Sample : WEL0554-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:26 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10013.D Vial: 13
 Acq On : 14 Dec 2024 1:08 am Operator: BAM
 Sample : WEL0554-03 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:34 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	141283862	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	155652828	47.728 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 95.46%

Target Compounds

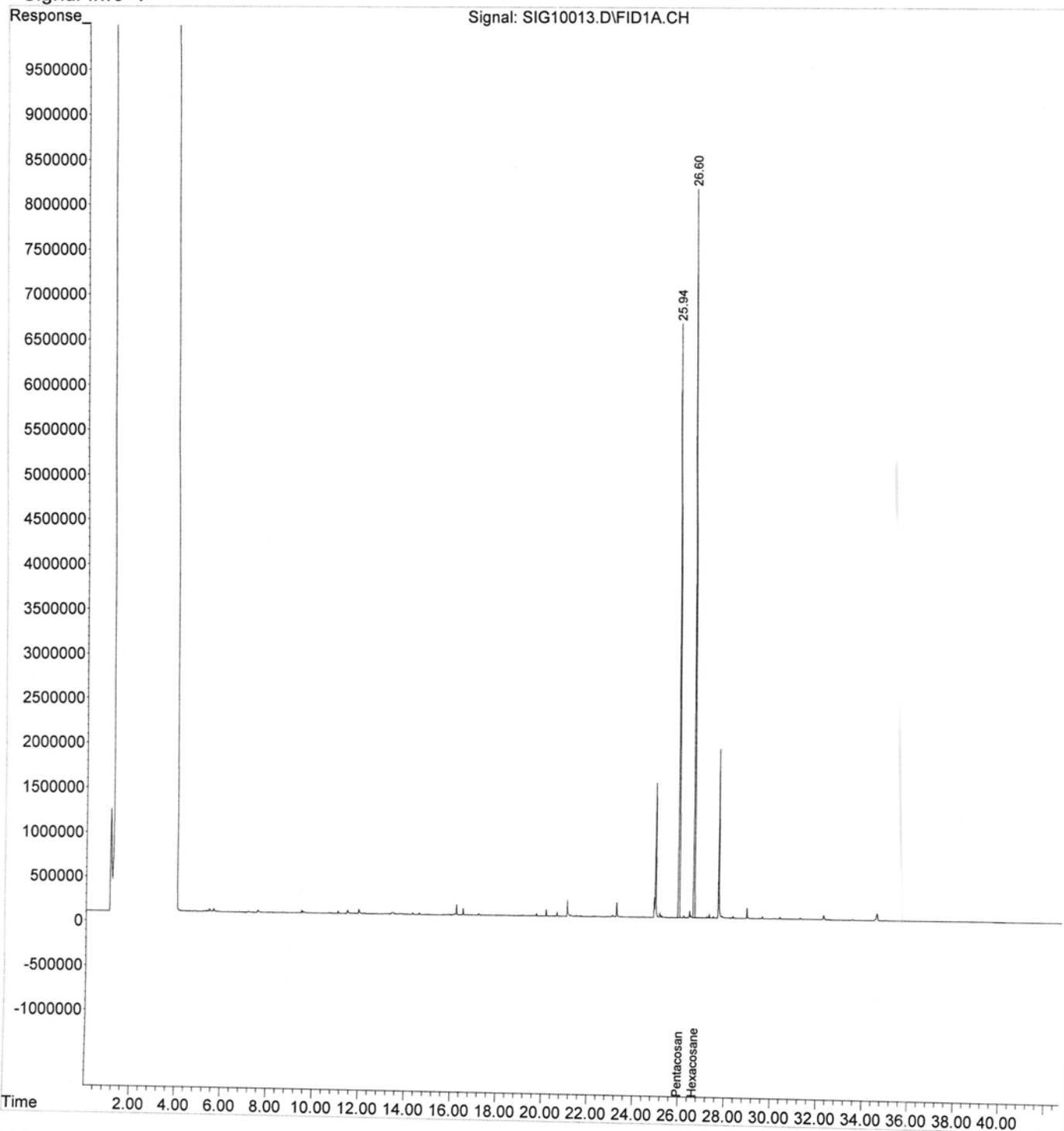
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10013.D Vial: 13
Acq On : 14 Dec 2024 1:08 am Operator: BAM
Sample : WEL0554-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:27 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10014.D Vial: 14
 Acq On : 14 Dec 2024 2:04 am Operator: BAM
 Sample : WEL0554-04 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:36 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	145922635	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	167350843	49.684 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.37%

Target Compounds

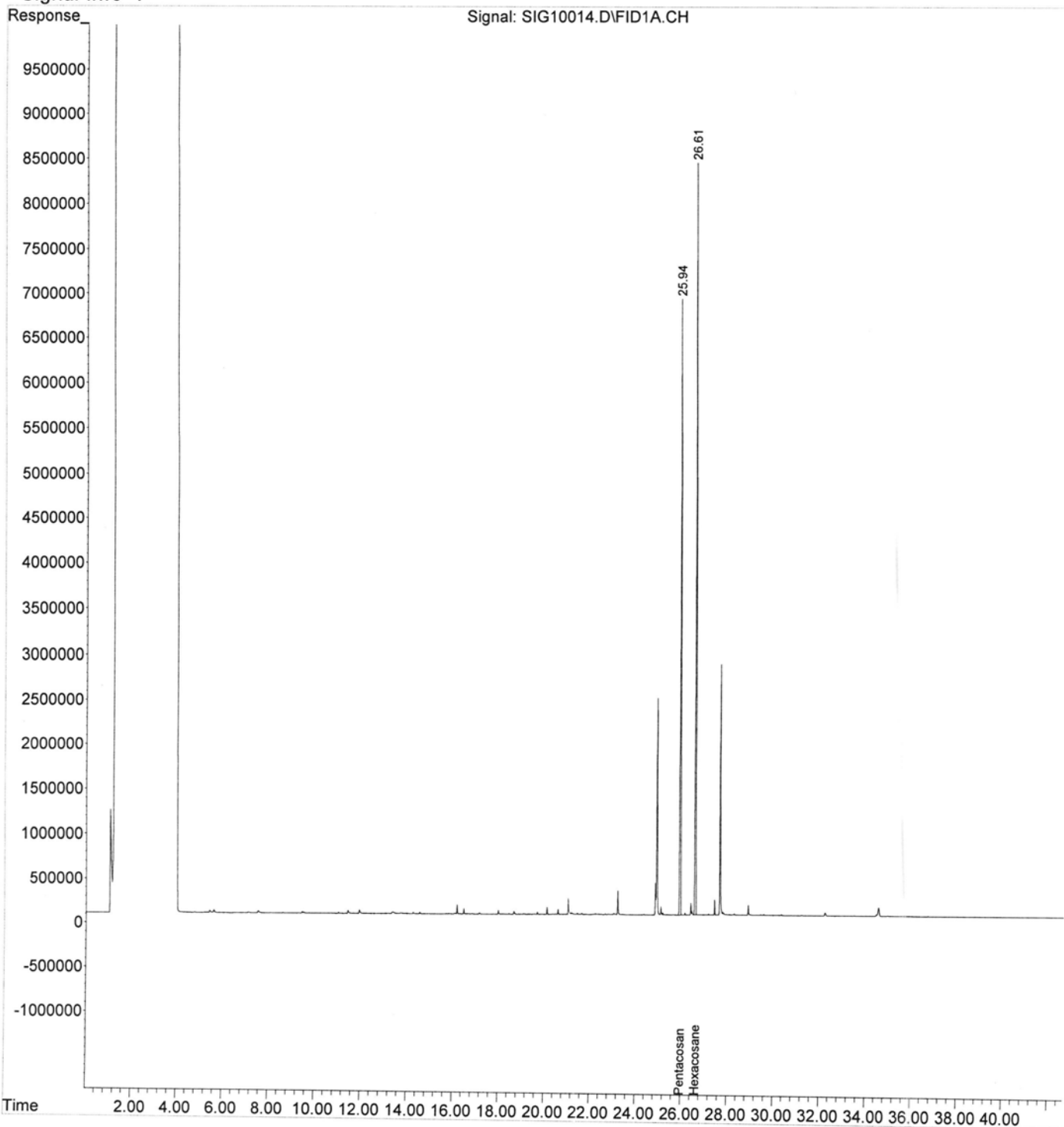
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10014.D Vial: 14
Acq On : 14 Dec 2024 2:04 am Operator: BAM
Sample : WEL0554-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:28 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10014.D Vial: 14
 Acq On : 14 Dec 2024 2:04 am Operator: BAM
 Sample : WEL0554-04 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:36 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	145922635	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	167350843	49.684 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 99.37%

Target Compounds

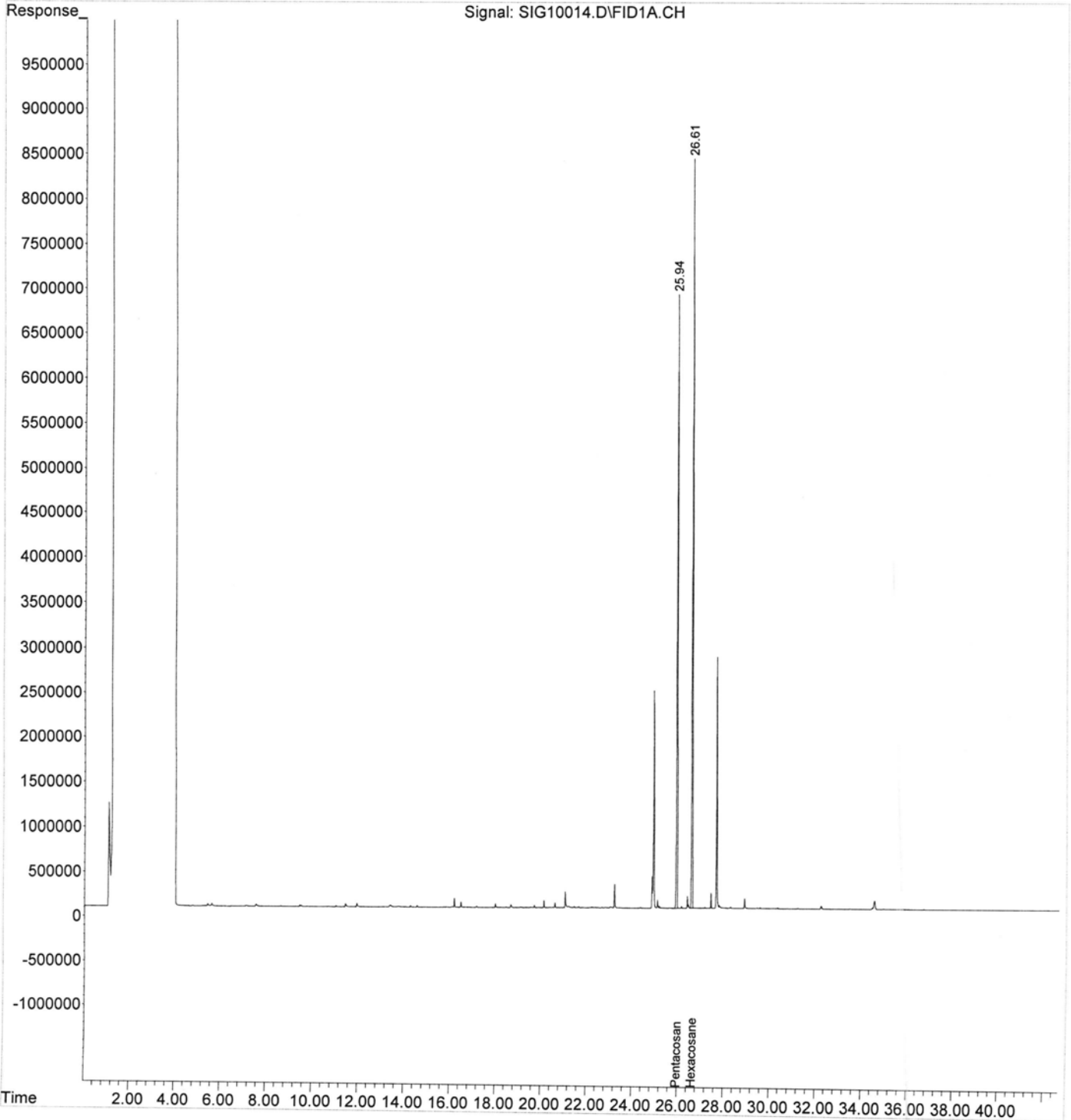
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10014.D Vial: 14
Acq On : 14 Dec 2024 2:04 am Operator: BAM
Sample : WEL0554-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:28 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10015.D Vial: 15
 Acq On : 14 Dec 2024 3:00 am Operator: BAM
 Sample : BELO611-DUP1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:37 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	175529878	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.61	203258647	50.166 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 100.33%

Target Compounds

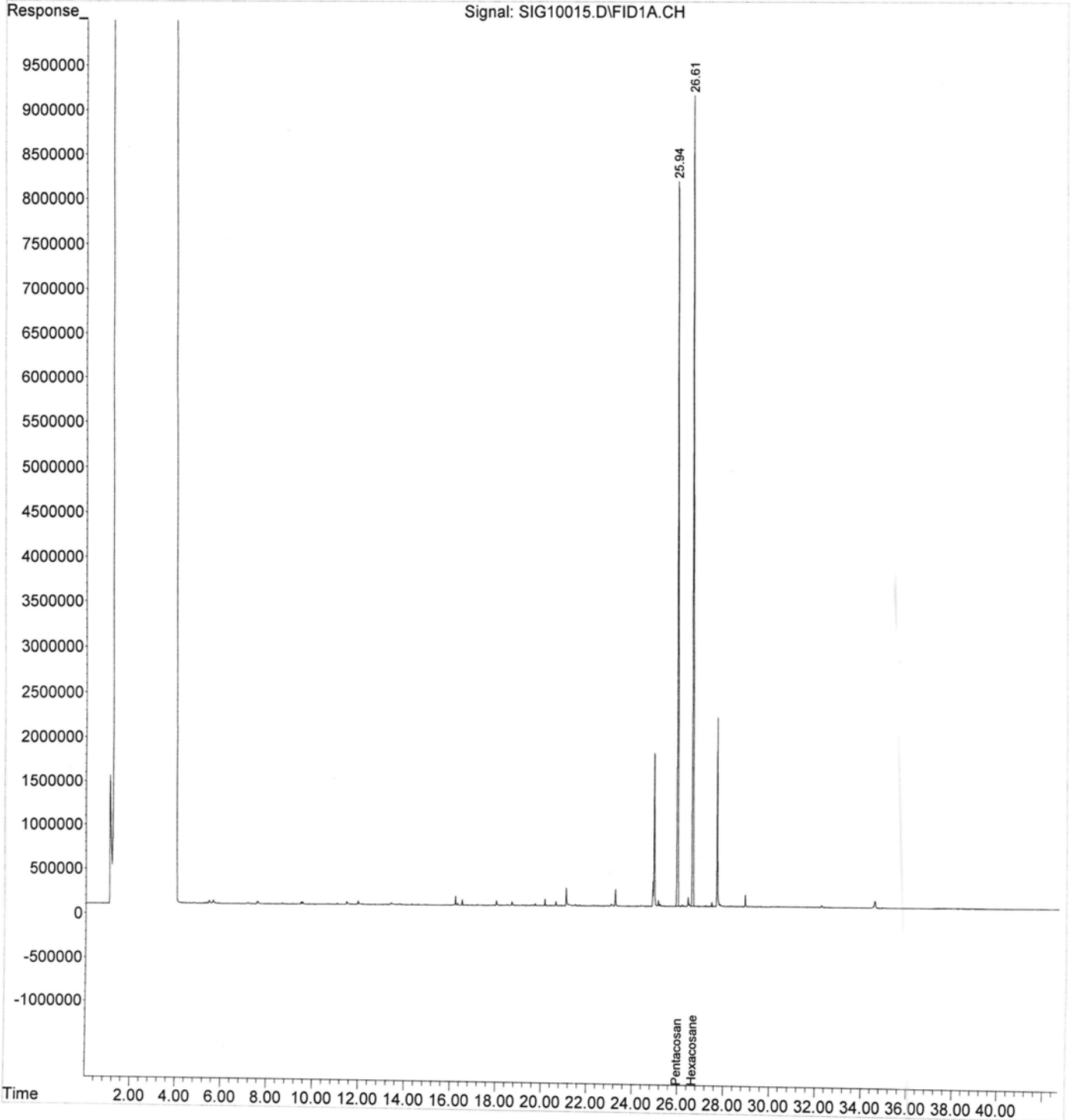
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10015.D Vial: 15
Acq On : 14 Dec 2024 3:00 am Operator: BAM
Sample : BELO611-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:29 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10016.D Vial: 16
 Acq On : 14 Dec 2024 3:56 am Operator: BAM
 Sample : WEL0554-05 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:38 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	162843290	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.61	189422183	50.393 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 100.79%

Target Compounds

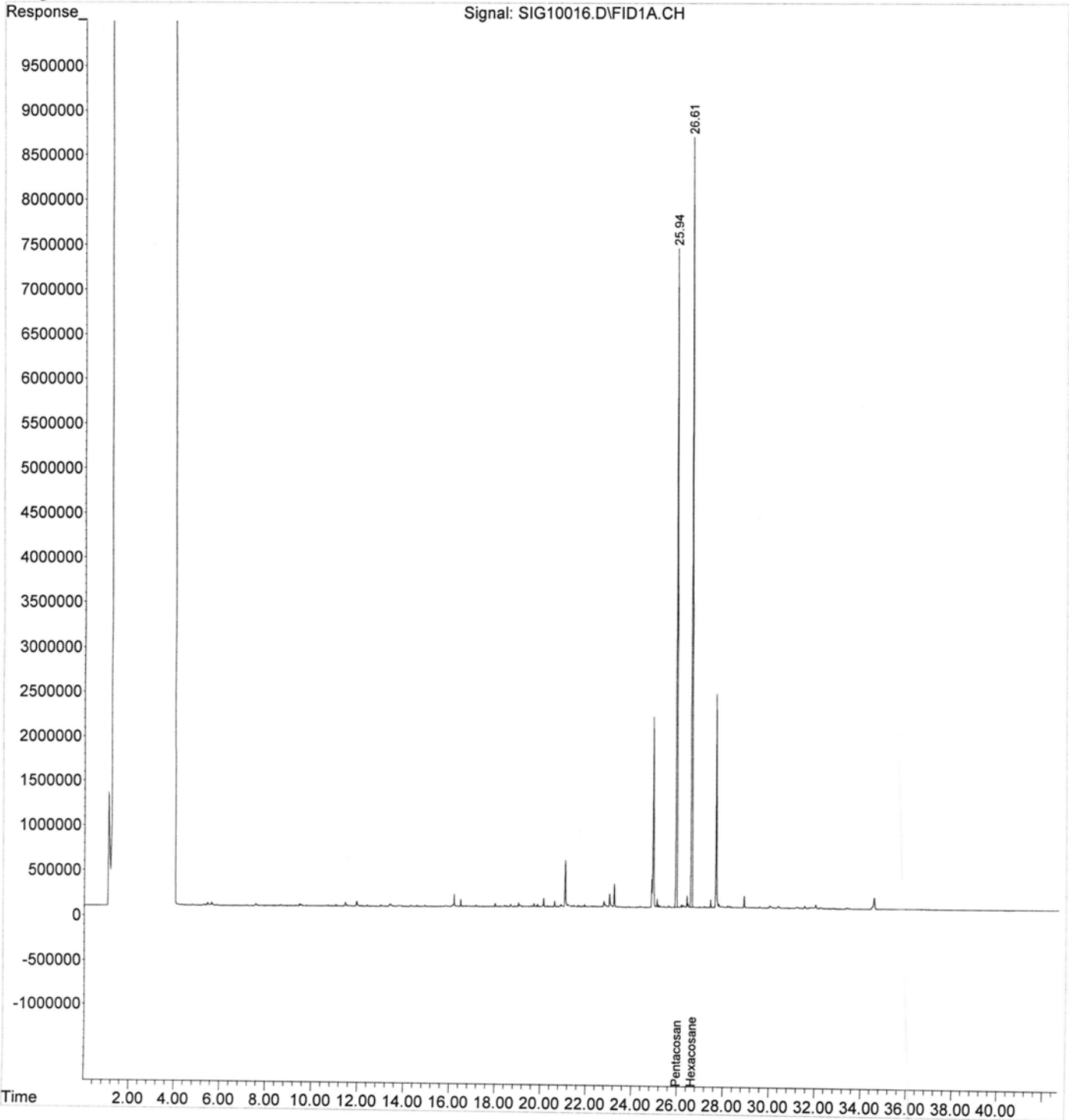
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10016.D Vial: 16
Acq On : 14 Dec 2024 3:56 am Operator: BAM
Sample : WEL0554-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:30 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10017.D Vial: 17
 Acq On : 14 Dec 2024 4:51 am Operator: BAM
 Sample : WEL0554-06 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:39 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	131927533	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.59	114238256	37.514 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 75.03%

Target Compounds

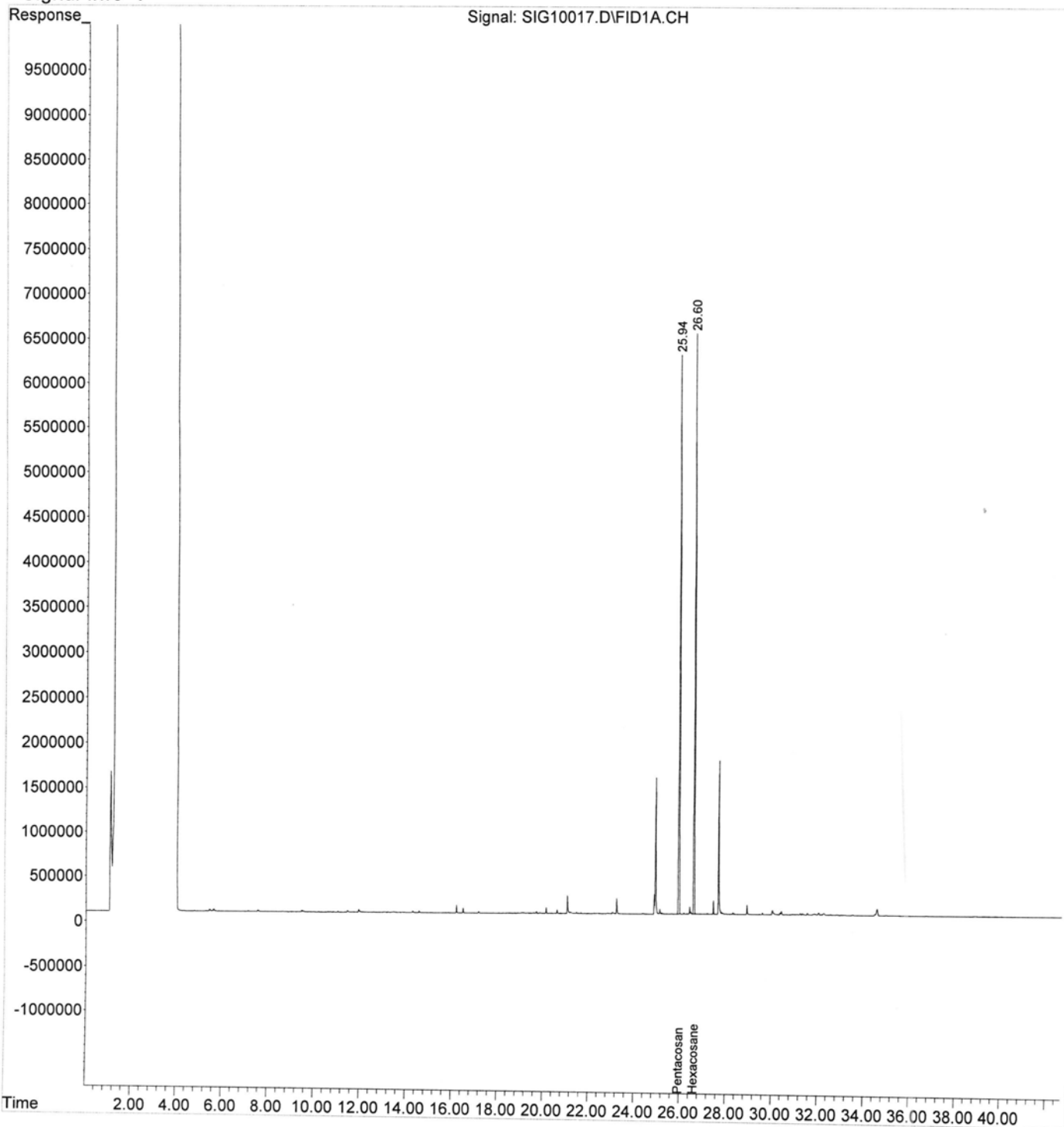
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10017.D Vial: 17
Acq On : 14 Dec 2024 4:51 am Operator: BAM
Sample : WEL0554-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 17 12:31 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10024.D Vial: 18
 Acq On : 14 Dec 2024 11:23 am Operator: BAM
 Sample : WEL0554-07 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:47 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	153300451	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	118442022	33.472 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 66.94%

Target Compounds

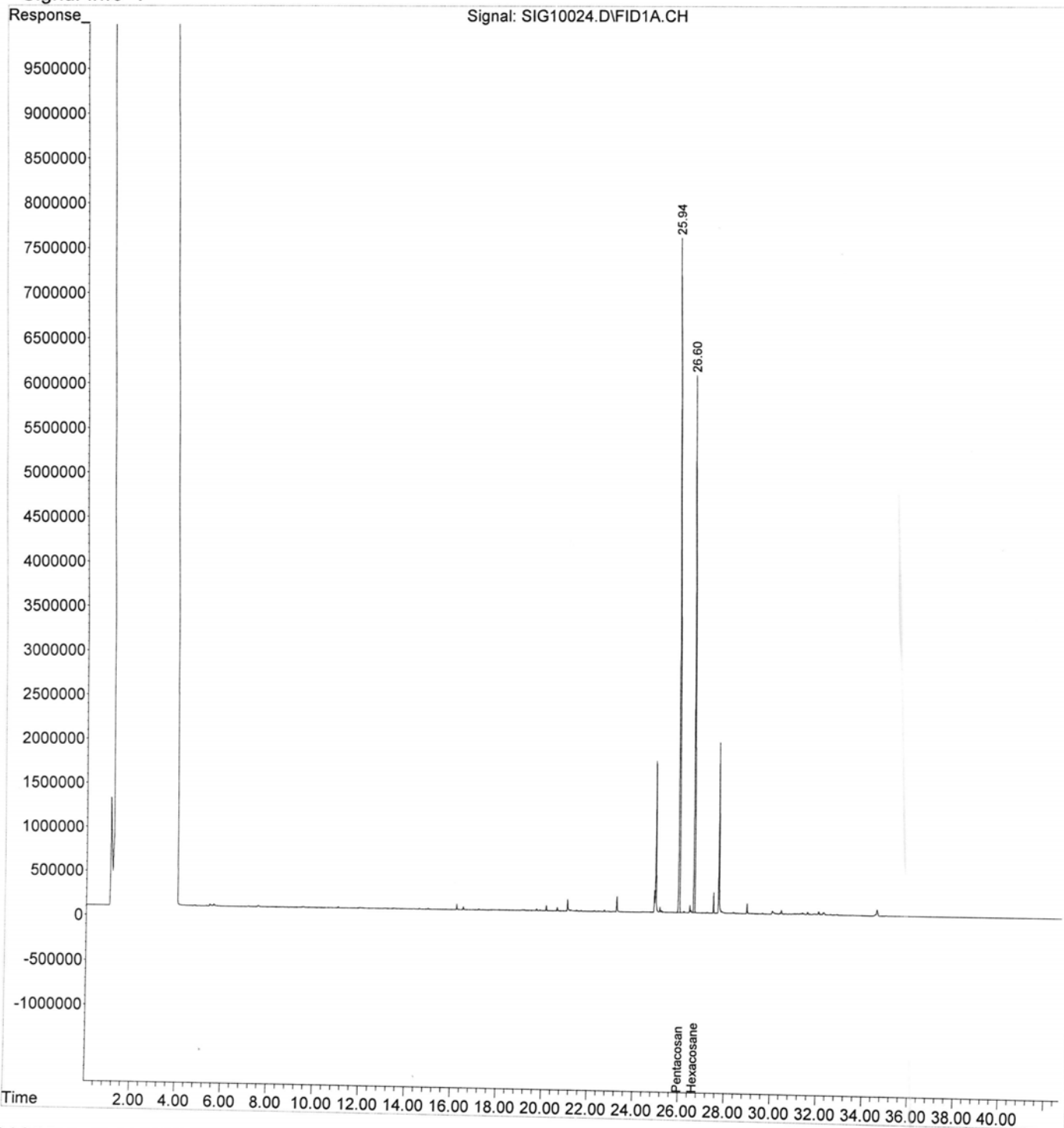
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10024.D Vial: 18
Acq On : 14 Dec 2024 11:23 am Operator: BAM
Sample : WEL0554-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:35 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10025.D Vial: 19
 Acq On : 14 Dec 2024 12:19 pm Operator: BAM
 Sample : WEL0554-08 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:48 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
----------	------	----------	------------

Internal Standards

1) I Pentacosane	25.94	142154445	50.000 ppm
------------------	-------	-----------	------------

System Monitoring Compounds

2) S Hexacosane	26.60	174236597	53.100 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 106.20%

Target Compounds

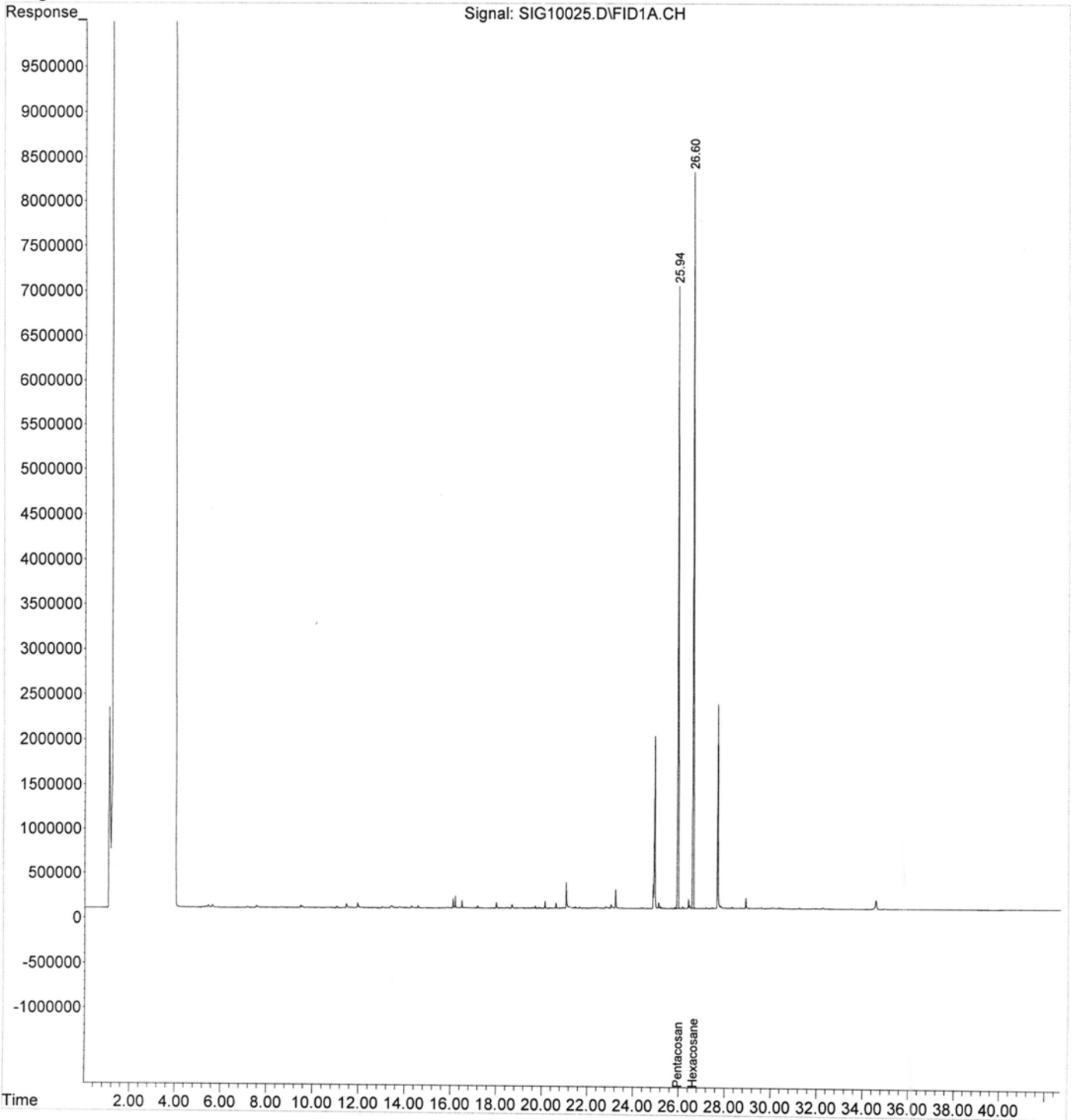
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10025.D Vial: 19
Acq On : 14 Dec 2024 12:19 pm Operator: BAM
Sample : WEL0554-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:36 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10026.D Vial: 20
 Acq On : 14 Dec 2024 1:16 pm Operator: BAM
 Sample : WEL0554-09 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:49 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	174910490	50.000 ppm
------------------	-------	-----------	------------

System Monitoring Compounds

2) S Hexacosane	26.61	195388493	48.395 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery = 96.79%

Target Compounds

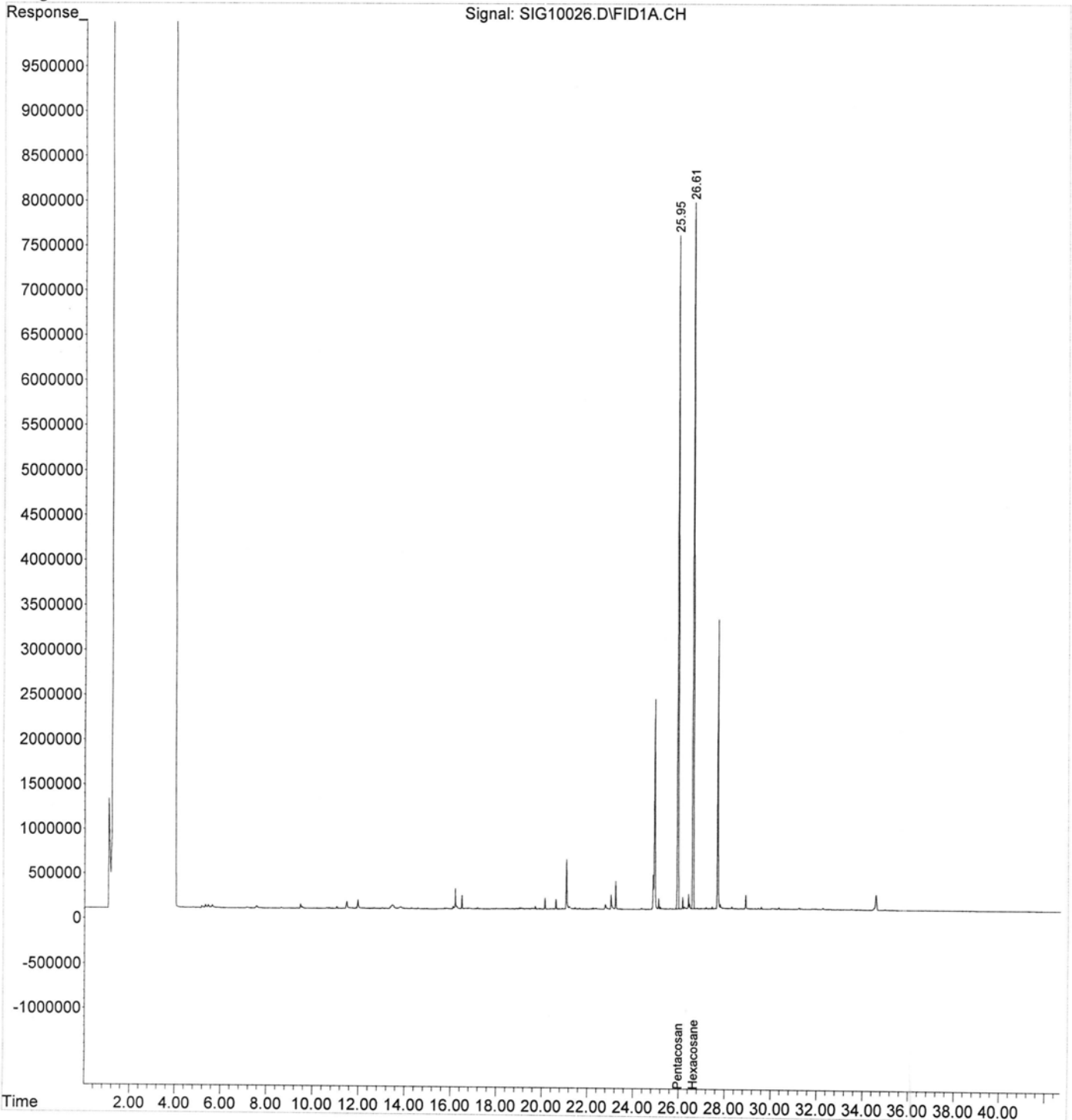
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10026.D Vial: 20
Acq On : 14 Dec 2024 1:16 pm Operator: BAM
Sample : WEL0554-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:37 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10029.D Vial: 23
 Acq On : 14 Dec 2024 4:04 pm Operator: BAM
 Sample : WEL0554-10 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:52 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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Internal Standards

1) I Pentacosane	25.94	163261699	50.000 ppm
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System Monitoring Compounds

2) S Hexacosane	26.60	138293470	36.697 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 73.39%			

Target Compounds

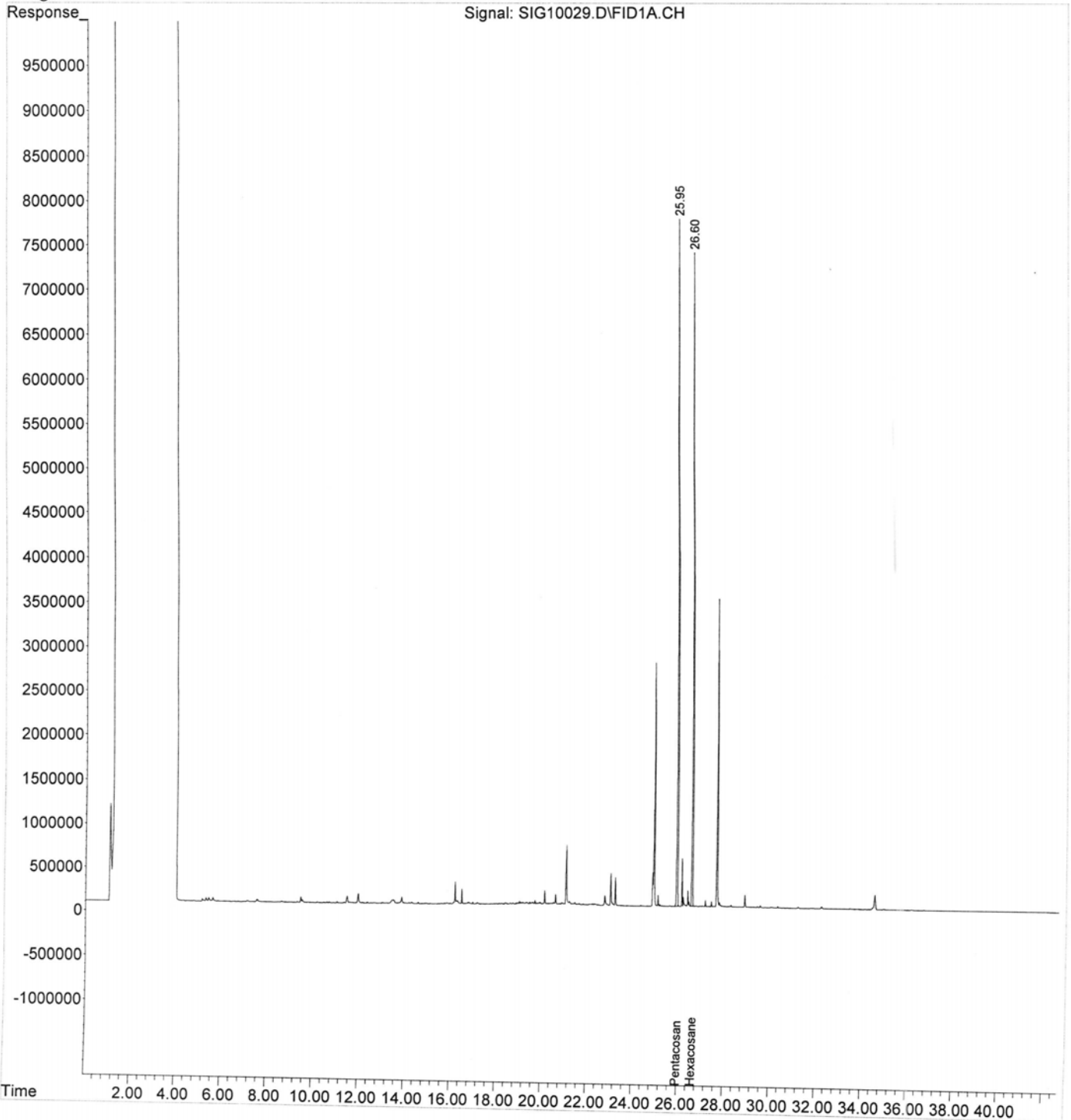
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10029.D Vial: 23
Acq On : 14 Dec 2024 4:04 pm Operator: BAM
Sample : WEL0554-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:39 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10030.D Vial: 24
 Acq On : 14 Dec 2024 5:01 pm Operator: BAM
 Sample : WEL0554-11 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Dec 16 08:55:53 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
 Title :
 Last Update : Wed Nov 27 11:47:47 2024
 Response via : Initial Calibration
 DataAcq Meth : DXHCID7.M

Volume Inj. :
 Signal Phase :
 Signal Info :

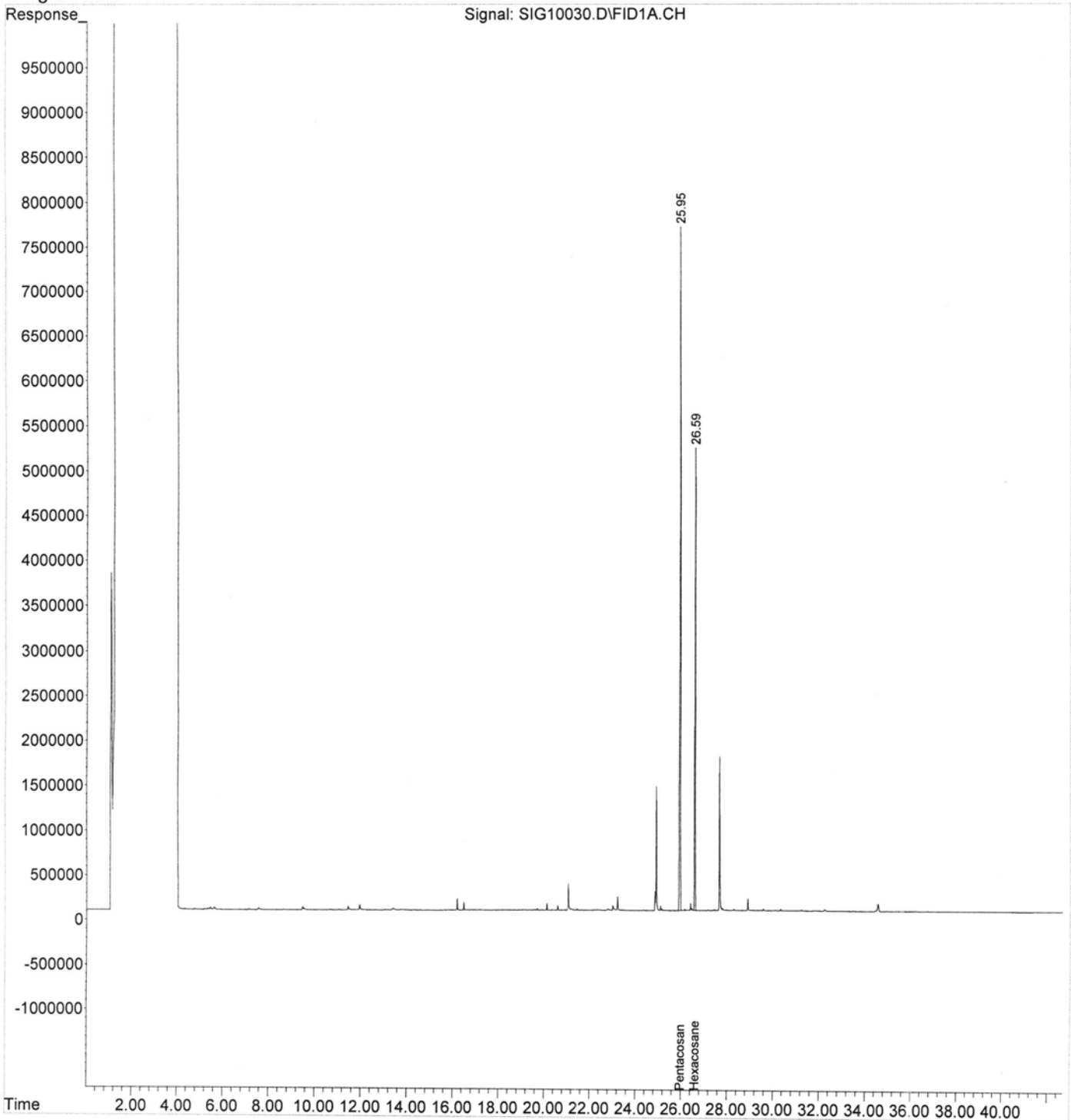
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	25.94	168608393	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	26.59	88324417	22.694 ppm
Spiked Amount 50.000 Range 50 - 150 Recovery = 45.39%#			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube 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

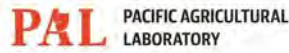
Quantitation Report (QT Reviewed)

Data File : Z:\HPCHEM\1\2024DATA\121324A\SIG10030.D Vial: 24
Acq On : 14 Dec 2024 5:01 pm Operator: BAM
Sample : WEL0554-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Dec 23 15:39 2024 Quant Results File: 241127DHTA.RES

Quant Method : Z:\HPCHEM\1\METHODS\241127DHTA.M (Chemstation Integrator)
Title :
Last Update : Wed Nov 27 11:47:47 2024
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID7.M

Volume Inj. :
Signal Phase :
Signal Info :





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

Report Number: P242952
Report Date: January 03, 2025
Client Project ID: [none]

Analytical Report

Client Sample ID: D-7
Matrix: water

PAL Sample ID: P242952-01
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: D-8
Matrix: water

PAL Sample ID: P242952-02
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

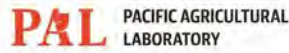
Client Sample ID: E-2
Matrix: water

PAL Sample ID: P242952-03
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

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

Kara Greer, Project Manager



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

Report Number: P242952
Report Date: January 03, 2025
Client Project ID: [none]

Analytical Report

Client Sample ID: E-1
Matrix: water

PAL Sample ID: P242952-04
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: E-1 DUP
Matrix: water

PAL Sample ID: P242952-05
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

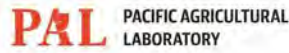
Client Sample ID: WW-3
Matrix: water

PAL Sample ID: P242952-06
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

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

Kara Greer, Project Manager



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

Report Number: P242952
Report Date: January 03, 2025
Client Project ID: [none]

Analytical Report

Client Sample ID: E-1 MS
Matrix: water

PAL Sample ID: P242952-07
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

Client Sample ID: E-1 MSD
Matrix: water

PAL Sample ID: P242952-08
Sample Date: 12/9/24
Received Date: 12/18/24

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: Modified EPA 549.2 (LC-MS/MS)					
12/20/24	12/21/24	Paraquat	ND	10 ug/L	H3

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

Kara Greer, Project Manager



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

Report Number: P242952
Report Date: January 03, 2025
Client Project ID: [none]

Quality Assurance

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
12/20/24	12/21/24	24L2007-BLK1	Paraquat	Not Detected	< 10 ug/L	

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
12/20/24	12/21/24	24L2007-BS1	Paraquat	85	60-140	
12/20/24	12/21/24	24L2007-BSD1	Paraquat	88	60-140	

Project Notes

Notes	Definition
H3	The sample was analyzed outside of recommended hold time.

Kara Greer, Project Manager

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

US EPA Tune Check Report

Operator Name Metals
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq. Date-Time 2025-01-13 11:25:49
Report Comment ---
Instrument Name 7800 JP17450949

[No Gas]

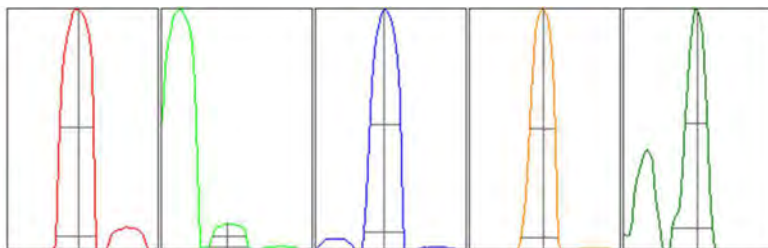
Sensitivity

Mass	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9	1877	18771.80	0.905	5.000	
24	5962	59624.84	0.776	5.000	
59	6407	64069.60	1.095	5.000	
115	7323	73225.45	1.005	5.000	
208	3431	34311.89	0.698	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1892	1850	1890	1880	1874
24	5887	5954	5977	5987	6007
59	6303	6440	6403	6395	6494
115	7252	7300	7322	7293	7446
208	3402	3446	3443	3456	3409

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Required)	W-5% (Flag)
9	2899.11	8.95	8.90 - 9.10		0.789	0.900	
24	9254.80	23.85	23.90 - 24.10	Fail	0.796	0.900	
59	10929.63	58.90	58.90 - 59.10		0.787	0.900	
115	14413.00	115.00	114.90 - 115.10		0.735	0.900	
208	7519.84	208.00	207.90 - 208.10		0.796	0.900	

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

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.35 L/min	Dilution Gas	0.60 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	9.3 V	Deflect	13.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-85 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	137	Axis Gain	0.9991	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.4 mm
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EM

Discriminator	3.3 mV	Analog HV	2200 V	Pulse HV	1195 V
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US EPA Tune Check Report

Operator Name Metals
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq. Date-Time 2025-01-13 12:13:22
Report Comment ---
Instrument Name 7800 JP17450949

[No Gas]

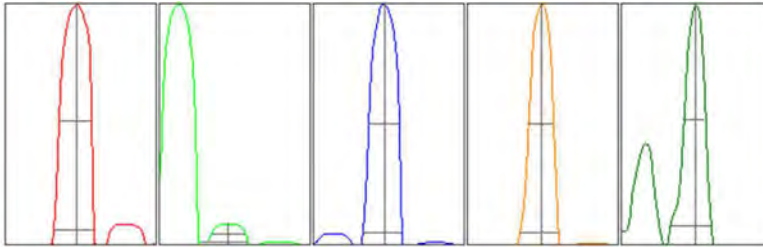
Sensitivity

Mass	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9	1587	15866.03	0.729	5.000	
24	5515	55146.69	0.397	5.000	
59	6010	60102.36	0.849	5.000	
115	7122	71221.02	0.722	5.000	
208	3384	33835.48	0.168	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1592	1593	1576	1572	1599
24	5492	5493	5520	5541	5528
59	5921	6019	6036	6046	6030
115	7034	7131	7147	7168	7131
208	3385	3383	3390	3375	3384

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Required)	W-5% (Flag)
9	2530.12	8.95	8.90 - 9.10		0.790	0.900	
24	8488.82	23.90	23.90 - 24.10		0.910	0.900	Fail
59	10261.10	58.95	58.90 - 59.10		0.774	0.900	
115	14266.27	115.00	114.90 - 115.10		0.761	0.900	
208	7467.25	208.00	207.90 - 208.10		0.807	0.900	

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

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.35 L/min	Dilution Gas	0.60 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	9.7 V	Deflect	12.8 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 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	137	Axis Gain	0.9991	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.02		

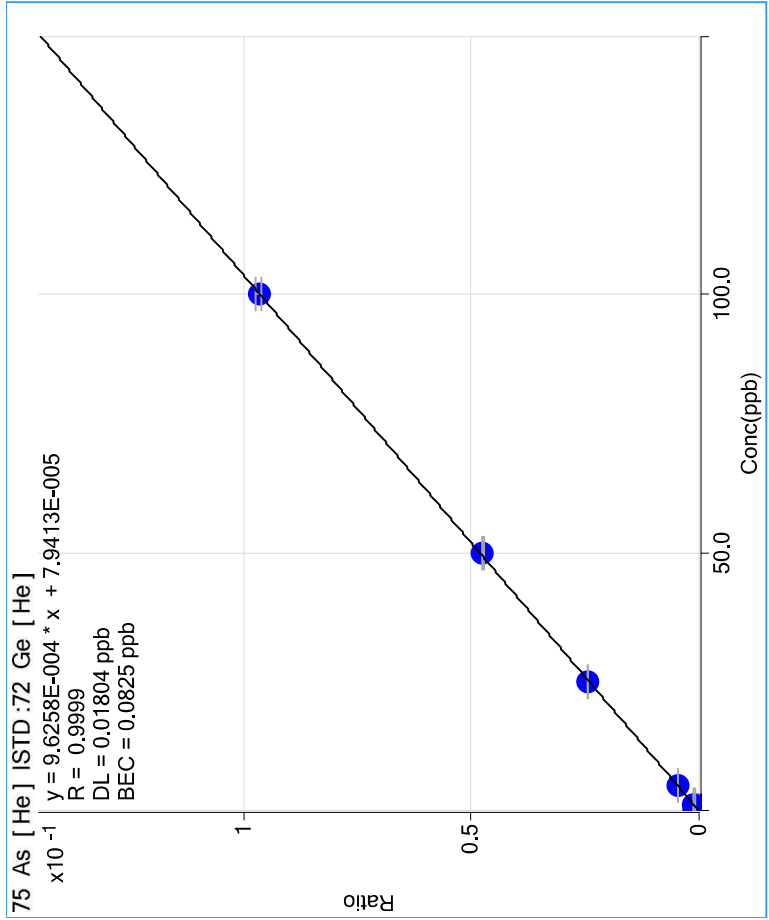
Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.3 mm
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EM

Discriminator	3.3 mV	Analog HV	2200 V	Pulse HV	1195 V
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PREPARATION BENCH SHEET

Metals

BEL0620

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BEL0620-BLK1	12/13/24 15:13 - JLG	50	50				
BEL0620-BS1	12/13/24 15:13 - JLG	50	50	2404311		250	
BEL0620-CCV1	12/13/24 15:13 - JLG	50	50	2300159		250	
BEL0620-MS1	12/13/24 15:13 - JLG	50	50	2404311	WEL0554-06	250	
BEL0620-MS2	12/13/24 15:13 - JLG	50	50	2404311	WEL0554-11	250	
BEL0620-MSD1	12/13/24 15:13 - JLG	50	50	2404311	WEL0554-06	250	
BEL0620-MSD2	12/13/24 15:13 - JLG	50	50	2404311	WEL0554-11	250	
WEL0554-01	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-02	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-03	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-04	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-05	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-06	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-07	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-08	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			
WEL0554-09	12/13/24 15:13 - JLG Analytes: Arsenic	50	50	Client: Stantec-GS			

Page 106 of 196

Prepared By _____ Date _____ Analytical Run Date _____

PREPARATION BENCH SHEET

Metals

BEL0620

(Continued)

Matrix: Water




Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WEL0554-10	12/13/24 15:13 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							
WEL0554-11	12/13/24 15:13 - JLG	50	50	Client: Stantec-GS			
Analytes: Arsenic							



Support Equipment: W PT-04 W PT-40 W PT-21, W PT-27, BLK1B

Batch Comments: IN HIGH MATRIX

<u>Reagent ID</u>	<u>Description</u>	<u>LotNum</u>
2400754	Metals UHP Helium	155-402885127-1
2401119	Nitric Acid	63117
2402280	P. 1:1 HCl-metals	59072
2404048	C. Internal Standard Mix	-
2404104	C. 10 ppb Tune Solution	-
2404194	P. Metals Digestion Vials	061324

Sample										
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+	1	<input type="checkbox"/>	001CALB.	2025-01-13 12:33:36	CalBlk	1	Blank		1.0000	1101
+	2	<input type="checkbox"/>	002CALB.	2025-01-13 12:35:54	CalBlk	1	Blank		1.0000	1101
+	3	<input type="checkbox"/>	003CALB.	2025-01-13 12:38:11	CalBlk	1	Blank		1.0000	1101
+	4	<input type="checkbox"/>	004CAL.S.	2025-01-13 12:40:32	CalStd	2	1 ppb cal		1.0000	1103
+	5	<input type="checkbox"/>	005CAL.S.	2025-01-13 12:42:50	CalStd	3	5 ppb cal		1.0000	1104
+	6	<input type="checkbox"/>	006CAL.S.	2025-01-13 12:45:08	CalStd	4	25 ppb cal		1.0000	1105
+	7	<input type="checkbox"/>	007CAL.S.	2025-01-13 12:47:28	CalStd	5	50 ppb cal		1.0000	1106
+	8	<input type="checkbox"/>	008CAL.S.	2025-01-13 12:49:46	CalStd	6	100 ppb cal		1.0000	1107
+	9	<input type="checkbox"/>	009_RIN.d	2025-01-13 12:53:09	RINSE		Rinse		1.0000	4
+	10	<input type="checkbox"/>	010_ICV.d	2025-01-13 12:55:27	ICV		ICV- 40ppb		1.0000	2101
+	11	<input type="checkbox"/>	011_LDR.d	2025-01-13 12:57:46	LDR		Daily LDR- 500pp		1.0000	2102
+	12	<input type="checkbox"/>	012_RIN.d	2025-01-13 13:00:06	RINSE		Rinse		1.0000	4
+	13	<input type="checkbox"/>	013_RIN.d	2025-01-13 13:02:24	RINSE		Rinse		1.0000	5
+	14	<input type="checkbox"/>	014_RIN.d	2025-01-13 13:04:42	RINSE		Rinse		1.0000	4
+	15	<input type="checkbox"/>	015_RIN.d	2025-01-13 13:07:02	RINSE		Rinse		1.0000	5
+	16		<input type="checkbox"/>	016_Blk.d	2025-01-13 13:09:22	Blank	BEL0620-BLK1		1.0000	3101
+	17		<input type="checkbox"/>	017LICV.d	2025-01-13 13:12:54	LLICV	BEL0620-MRL1		1.0000	3102
+	18	<input type="checkbox"/>	018_LCS.d	2025-01-13 13:16:23	LCS		BEL0620-BS1		1.0000	3103
+	19	<input type="checkbox"/>	019SMPL.	2025-01-13 13:19:55	Sample		WEL0554-01		1.0000	3104
+	20	<input type="checkbox"/>	020SMPL.	2025-01-13 13:23:24	Sample		WEL0554-02		1.0000	3105
+	21	<input type="checkbox"/>	021SMPL.	2025-01-13 13:26:55	Sample		WEL0554-03		1.0000	3106
+	22	<input type="checkbox"/>	022SMPL.	2025-01-13 13:30:25	Sample		WEL0554-04		1.0000	3107
+	23	<input type="checkbox"/>	023SMPL.	2025-01-13 13:33:56	Sample		WEL0554-05		1.0000	3108
+	24	<input type="checkbox"/>	024_ARF.d	2025-01-13 13:37:26	AllRef		WEL0554-06		1.0000	3109
+	25	<input type="checkbox"/>	025_LFM.d	2025-01-13 13:39:46	LFM		BEL0620-MS1		1.0000	3110

Sample										
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+	26	<input checked="" type="checkbox"/>	026LFMD.	2025-01-13 13:42:05	LFMDup		BEL0620-MSD		1.0000	3111
+	27	<input type="checkbox"/>	027_LFM.d	2025-01-13 13:44:23	LFM		BEL0620-MSD1		1.0000	3110
+	28	<input type="checkbox"/>	028_RIN.d	2025-01-13 13:46:44	CalBlk		Rinse		1.0000	4
+	29	<input type="checkbox"/>	029_CCV.	2025-01-13 13:49:02	CCV		CCV		1.0000	1106
+	30	<input type="checkbox"/>	030_CCB.	2025-01-13 13:51:20	CCB		CCB		1.0000	1101
+	31	<input type="checkbox"/>	031_RIN.d	2025-01-13 13:53:40	CalBlk		Rinse		1.0000	5
+	32	<input type="checkbox"/>	032SMPL.	2025-01-13 13:55:59	Sample		WEL0554-07		1.0000	3112
+	33	<input type="checkbox"/>	033SMPL.	2025-01-13 13:58:18	Sample		WEL0554-08		1.0000	3201
+	34	<input type="checkbox"/>	034SMPL.	2025-01-13 14:00:38	Sample		WEL0554-09		1.0000	3202
+	35	<input type="checkbox"/>	035SMPL.	2025-01-13 14:02:57	Sample		WEL0554-10		1.0000	3203
+	36	<input type="checkbox"/>	036_ARF.d	2025-01-13 14:05:16	AllRef		WEL0554-11		1.0000	3204
+	37	<input checked="" type="checkbox"/>	037_LFM.d	2025-01-13 14:07:37	LFM		BEL0620-MS2		1.0000	3205
+	38	<input checked="" type="checkbox"/>	038LFMD.	2025-01-13 14:09:56	LFMDup		BEL0620-MSD2		1.0000	3206
+	39		039_Blk.d	2025-01-13 14:12:14	Blank		BEL0620-BLK1		1.0000	3207
+	40	<input type="checkbox"/>	040_LCS.d	2025-01-13 14:14:36	LCS		BEL0620-BS1		1.0000	3208
+	41	<input type="checkbox"/>	041_RIN.d	2025-01-13 14:16:54	RINSE		Rinse		1.0000	4
+	42	<input type="checkbox"/>	042_Blk.d	2025-01-13 14:19:12	Blank		BEL0620-BLK2		1.0000	3209
+	43	<input type="checkbox"/>	043_LFM.d	2025-01-13 14:21:47	LFM		BEL0620-MS2		1.0000	3210
+	44	<input type="checkbox"/>	044LFMD.	2025-01-13 14:24:06	LFMDup		BEL0620-MSD2		1.0000	3211
+	45	<input type="checkbox"/>	045_RIN.d	2025-01-13 14:26:24	RINSE		Rinse		1.0000	4
+	46	<input type="checkbox"/>	046_CCV.	2025-01-13 14:28:45	CCV		CCV		1.0000	1106
+	47	<input type="checkbox"/>	047_CCB.	2025-01-13 14:31:03	CCB		CCB		1.0000	1101
+	48	<input type="checkbox"/>	048_RIN.d	2025-01-13 14:33:21	RINSE		Rinse		1.0000	5
+	49	<input type="checkbox"/>	049_RIN.d	2025-01-13 14:40:30	RINSE		Rinse		1.0000	4
+	50	<input type="checkbox"/>	050_CCB.	2025-01-13 14:42:48	CCB		CCB		1.0000	1101

Sample										
		Rjct	Data File	Acq. Date-Time 	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
+ 51		<input type="checkbox"/>	051_RIN.d	2025-01-13 14:45:07	RINSE		Rinse		1.0000	5
+ 52		<input type="checkbox"/>	052_RIN.d	2025-01-13 14:47:28	RINSE		Rinse		1.0000	5
+ 53		<input type="checkbox"/>	053_RIN.d	2025-01-13 14:49:46	RINSE		Rinse		1.0000	5

Sample Report

Sample Name CCB
File Name 030_CCB.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 13:51:20
Sample Type CCB
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 028_RIN.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
75	As	0,041	He	0,041	72	5,4	0,06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1985317.13	3,3	103,2	1923750,79333333
Ge	72	He	412478.98	8,3	85,1	484465,446666667
Ge	72	HEHe	200259.37	2,4	100,3	199567,663333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 031_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 13:53:40
Sample Type CalBk
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	0.053	He	0.053	72	7.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1743690.79	5.2	100.0	1743690.79
Ge	72	He	453885.85	0.6	100.0	453885.85
Ge	72	HEHe	192935.83	0.4	100.0	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEL0554-07
File Name 032SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 13:55:59
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	1,246	He	1,246	72	5.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1361315.33	0.9	78.1	1743690.79
Ge	72	He	326577.82	0.7	72.0	453885.85
Ge	72	HEHe	136903.60	0.9	71.0	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEL0554-08
File Name 033SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 13:58:18
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	1,923	He	1,923	72	5.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1283512.46	1.3	73.6	1743690.79
Ge	72	He	326295.01	1.6	71.9	453885.85
Ge	72	HEHe	140239.88	0.2	72.7	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEL0554-09
File Name 034SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:00:38
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	1.256	He	1.256	72	1.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1673065.29	1.1	95.9	1743690.79
Ge	72	He	405270.09	0.9	89.3	453885.85
Ge	72	HEHe	169745.53	2.6	88.0	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEL0554-10
File Name 035SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:02:57
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	0.395	He	0.395	72	4.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1775315.25	1.4	101.8	1743690.79
Ge	72	He	417603.26	22.7	92.0	453885.85
Ge	72	HEHe	167699.69	4.1	86.9	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WEL0554-11
File Name 036_ARF.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:05:16
Sample Type AllRef
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	0.545	He	0.545	72	3.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1690485.71	1.3	96.9	1743690.79
Ge	72	He	403670.22	1.0	88.9	453885.85
Ge	72	HEHe	170775.00	2.8	88.5	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEL0620-MS2
File Name 037_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:07:37
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas				1743690.79
Ge	72	He				453885.85
Ge	72	HEHe				192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEL0620-MSD2
File Name 038LFMD.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:09:56
Sample Type LFMDup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas				1743690.79
Ge	72	He				453885.85
Ge	72	HEHe				192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEL0620-BLK1
File Name 039_Blk.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:12:14
Sample Type Blank
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	0.142	He	0.142	72	5.9	0,06	>DL*2.2

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1615335.79	1.1	92.6	1743690.79
Ge	72	He	391221.18	0.5	86.2	453885.85
Ge	72	HEHe	167216.01	2.6	86.7	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEL0620-BS1
File Name 040_LCS.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:14:36
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	49.685	He	49.685	72	0.9	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1589391.75	0.9	91.2	1743690.79
Ge	72	He	378830.77	0.3	83.5	453885.85
Ge	72	HEHe	163869.75	1.7	84.9	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 041_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:16:54
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1626384.00	1.3	93.3	1743690.79
Ge	72	He	392926.15	1.0	86.6	453885.85
Ge	72	HEHe	167373.95	0.4	86.8	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEL0620-BLK2
File Name 042_Blk.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:19:12
Sample Type Blank
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	0.020	He	0.02	72	20.3	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1623974.92	1.2	93.1	1743690.79
Ge	72	He	388733.51	1.5	85.6	453885.85
Ge	72	HEHe	164114.24	1.6	85.1	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEL0620-MS2
File Name 043_LFM.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:21:47
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	49.871	He	49.871	72	1.9	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1500496.66	0.9	86.1	1743690.79
Ge	72	He	359334.80	0.9	79.2	453885.85
Ge	72	HEHe	150447.57	2.7	78.0	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BEL0620-MSD2
File Name 044LFMD.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:24:06
Sample Type LFMdup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	49.976	He	49.976	72	0.7	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1529052.63	1.7	87.7	1743690.79
Ge	72	He	353478.95	0.6	77.9	453885.85
Ge	72	HEHe	154131.44	1.4	79.9	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 045_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:26:24
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
------	------	-------	------	-----------	------	---------	-----	---------

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1571143.75	0.9	90.1	1743690.79
Ge	72	He	375564.77	1.2	82.7	453885.85
Ge	72	HEHe	162707.36	1.0	84.3	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCV
File Name 046_CCV.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:28:45
Sample Type CCV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	48.933	He	48.933	72	1.9	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1583265.25	0.8	90.8	1743690.79
Ge	72	He	377901.24	1.2	83.3	453885.85
Ge	72	HEHe	161690.79	2.4	83.8	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCB
File Name 047_CCB.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:31:03
Sample Type CCB
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
75	As	0,037	He	0,037	72	8.1	0,06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1567652.75	0.7	89.9	1743690.79
Ge	72	He	372794.65	2.0	82.1	453885.85
Ge	72	HEHe	159868.93	1.4	82.9	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 048_RIN.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXN\Sequences\01132025 HIGH MATRIX.b
Acq Time 2025-01-13 14:33:21
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 031_RIN.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
------	------	-------	------	-----------	------	---------	-----	---------

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	1541145.00	0.8	88.4	1743690.79
Ge	72	He	366283.69	0.5	80.7	453885.85
Ge	72	HEHe	157670.83	0.9	81.7	192935.833333333
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

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

Batch ID: BEL0589 Date: 12.13.24 Time: 11:02 Initials: EMG

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.	2404059	100 ppm	BAL-06	5	104	2403480	T-Oven 5

Comments: CLY HH

Date/Time of Weigh: 12.16.24 9:49 EM 12.16.24 12:30 EMG

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
BEL0589-BLK1	Blank	492	0.1102	1000	0.1103	0.1103	0.1	1.00	0.10	
BEL0589-BLK2	Blank	493	0.1105	1000	0.1108	0.1106	0.1	1.00	0.10	
BEL0589-BLK3	Blank	494	0.1109	1000	0.1112	0.1109	0.1			
BEL0589-BLK4	Blank	495	0.1107	1000	0.1107	0.1107	0.1			
BEL0589-BLK5	Blank	496	0.1112	1000	0.1112	0.1113	0.1			
BEL0589-BLK6	Blank	497	0.1107	1000	0.1106	0.1106	0.1	-1.00	-0.10	
BEL0589-BS1	LCS	498	0.1105	100	0.1204	0.1204	1	99.00	99.00	
BEL0589-BS2	LCS	499	0.1105	100	0.1203	0.1203	1	98.00	98.00	
BEL0589-BS3	LCS	500	0.1105	100	0.1204	0.1205	1	99.00	99.00	
MEL0244-02	INF	509	0.1109	36	0.1268	0.1269	2.7777778	159.00	441.67	
MEL0246-01	Inf	501	0.1107	50	0.1264	0.1266	2	157.00	314.00	
MEL0247-01	Influent	502	0.1104	90	0.1236	0.1237	1.1111111	132.00	146.67	
MEL0262-01	Influent	503	0.1099	83	0.1221	0.1221	1.2048193	122.00	146.99	
MEL0275-01	Influent	504	0.1101	50	0.1273	0.127	2	169.00	338.00	
MEL0277-01	Treatment Effluent	505	0.1098	232	0.1159	0.1157	0.4310345	59.00	25.43	
MEL0277-02	Settling Effluent	506	0.1104	191	0.1115	0.1118	0.5235602	11.00	5.76	
MEL0277-03	Influent	507	0.1116	76	0.1221	0.1221	1.3157895	105.00	138.16	
MEL0350-01	Influent	508	0.1093	50	0.1247	0.1248	2	154.00	308.00	
MEL0363-02	Influent Lagoons	510	0.1099	40	0.1586	0.1582	2.5	483.00	1207.50	
MEL0384-01	Influent	511	0.1102	70	0.1209	0.1207	1.4285714	105.00	150.00	
WEL0308-01	Effluent	513	0.1107	500	0.1211	0.1209	0.2	102.00	20.40	
WEL0308-02	Influent	512	0.1102	30	0.124	0.124	3.3333333	138.00	460.00	
WEL0343-01	No-Li	515	0.1103	80	0.116	0.1161	1.25	57.00	71.25	
WEL0343-02	Cyrus O Learys	514	0.1102	20	0.1233	0.1232	5	130.00	650.00	
BEL0355-01	INF	516	0.1109	150	0.1168	0.1168	0.6666667	59.00	39.33	
BEL0355-02	EFF	442	0.1084	500	0.1158	0.1157	0.2	73.00	14.60	
L0589-MS1	Matrix Spike WEL0372-01	443	0.1113	50	0.1164	0.1162	2	49.00	98.00	
L0589-MSD1	Matrix Spike Dup WEL0372-01	444	0.1096	50	0.1142	0.1145	2	46.00	92.00	

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

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
WEL0372-01	MW13	445	0.1111	1000	0.1112	0.1114	0.1	1.00	0.10	
WEL0372-02	MW12	446	0.1109	1000	0.1109	0.111	0.1			
WEL0372-03	MW02	447	0.1106	1000	0.1131	0.1133	0.1	25.00	2.50	
WEL0372-04	MW16	448	0.1115	960	0.113	0.1128	0.1041667	13.00	1.35	
WEL0372-05	FD	449	0.1104	1000	0.1107	0.1108	0.1	3.00	0.30	
WEL0372-06	MW17 - low flow	450	0.1101	30	0.2076	0.208	3.3333333	975.00	3250.00	
WEL0419-01	Influent	451	0.1102	100	0.1259	0.1259	1	157.00	157.00	
WEL0440-01	Effluent	452	0.1104	300	0.1138	0.1139	0.3333333	34.00	11.33	
WEL0440-02	Influent	462	0.1116	70	0.1216	0.1218	1.4285714	100.00	142.86	
WEL0445-01	Inf	454	0.1119	90	0.1276	0.1274	1.1111111	155.00	172.22	
BEL0589-DUP2	Duplicate WEL0445-02	455	0.1101	500	0.1108	0.1106	0.2	5.00	1.00	
WEL0445-02	Eff	456	0.1106	500	0.1111	0.111	0.2	4.00	0.80	
WEL0489-01	Influent	457	0.1101	30	0.1164	0.1163	3.3333333	62.00	206.67	
WEL0490-01	Influent	458	0.1111	100	0.1241	0.1239	1	128.00	128.00	
WEL0490-02	Effluent	459	0.1106	1000	0.1112	0.1111	0.1	5.00	0.50	
WEL0506-01	X4L0178-01 (150-3916-12)	460	0.11	45	0.1245	0.1245	2.2222222	145.00	322.22	
WEL0515-01	Effluent	461	0.1108	980	0.1118	0.1118	0.1020408	10.00	1.02	
WEL0521-01	Wastewater	463	0.1102	100	0.1281	0.128	1	178.00	178.00	
WEL0541-01	Effluent	464	0.1111	1000	0.1119	0.1118	0.1	7.00	0.70	
WEL0541-02	Influent	465	0.1111	100	0.1188	0.1186	1	75.00	75.00	
WEL0544-01	INF	466	0.1098	70	0.1177	0.1175	1.4285714	77.00	110.00	
WEL0544-02	EFF	417	0.1108	700	0.1169	0.117	0.1428571	61.00	8.71	
WEL0545-01	Liftstation	418	0.1105	83	0.1266	0.1266	1.2048193	161.00	193.98	
WEL0545-02	Effluent	419	0.1102	1000	0.1119	0.1119	0.1	17.00	1.70	
WEL0547-01	Influent	420	0.1097	60	0.1259	0.1263	1.6666667	162.00	270.00	
WEL0547-02	Effluent	421	0.1098	100	0.1149	0.1152	1	51.00	51.00	
WEL0552-03	INF	422	0.1107	90	0.1209	0.1211	1.1111111	102.00	113.33	
WEL0552-05	EFF TSS	423	0.1093	1000	0.1096	0.1093	0.1			
WEL0553-01	INF	424	0.1093	100	0.1234	0.1231	1	138.00	138.00	
WEL0553-02	EFF	425	0.1098	1000	0.1103	0.1101	0.1	3.00	0.30	
BEL0589-DUP1	Duplicate WEL0554-06	426	0.11	500	0.1158	0.116	0.2	58.00	11.60	
WEL0554-06	E-1	427	0.1099	500	0.1135	0.1134	0.2	35.00	7.00	
BEL0589-DUP3	Duplicate WEL0555-01	428	0.1103	500	0.1157	0.1158	0.2	54.00	10.80	



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

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
WEL0555-01	EFF	429	0.1089	500	0.1148	0.1148	0.2	59.00	11.80	
WEL0555-02	INF	430	0.1097	75	0.1293	0.1291	1.33333333	194.00	258.67	
WEL0554-01	D-4	431	0.1098	500	0.1174	0.1173	0.2	75.00	15.00	
WEL0554-02	D-6	432	0.1094	500	0.1207	0.121	0.2	113.00	22.60	
WEL0554-03	D-7	433	0.1096	1000	0.1193	0.1194	0.1	97.00	9.70	
WEL0554-04	D-8	434	0.1091	1000	0.1118	0.1115	0.1	24.00	2.40	
WEL0554-05	E-2	435	0.1083	1000	0.1146	0.115	0.1	63.00	6.30	
WEL0554-07	E-1 DUP	436	0.1101	1000	0.1191	0.119	0.1	89.00	8.90	
WEL0554-08	WW-2	437	0.1098	750	0.1253	0.1251	0.13333333	153.00	20.40	
WEL0554-09	WW-3	438	0.1107	1000	0.1146	0.1147	0.1	39.00	3.90	
WEL0554-10	U-2/WW-3	439	0.1106	300	0.1236	0.1235	0.33333333	129.00	43.00	
WEL0554-11	U-3/WW-4	440	0.1097	1000	0.1155	0.1154	0.1	57.00	5.70	



Starting sequence Thu Jan 02 15:20:01 2025

Instrument Name: MSD4

Sequence File: T:\DATA1\MSD4\SEQUENCES\2024\010225C.S

Comment: 625 8270

Operator: MAH

Data Path: T:\DATA1\MSD4\2025\JAN\02CD\

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 1 PPM
5) Sample	5	00501005	CARDSIM	CARDNO 0.5 PPM
6) Sample	6	00601006	CARDSIM	CARDNO 0.1 PPM
7) Sample	7	00701007	CARDSIM	CARDNO 0.05 PPM
8) Sample	1	00101008	SVOCT1	SYS
9) Sample	8	00801009	SVOCT1	RINSE
10) Sample	11	01101010	CARDSIM	BEL0665-BS1
11) Sample	12	01201011	CARDSIM	BEL0665-MS1
12) Sample	13	01301012	CARDSIM	BEL0665-MSD1
13) Sample	14	01401013	CARDSIM	BEL0665-BLK1
14) Sample	15	01501014	CARDSIM	WEL0554-03
15) Sample	16	01601015	CARDSIM	WEL0554-04
16) Sample	17	01701016	CARDSIM	WEL0554-05
17) Sample	18	01801017	CARDSIM	WEL0554-06
18) Sample	19	01901018	CARDSIM	WEL0554-09
19) Sample	21	02101019	CARDSIM	BEL0785-BS1
20) Sample	22	02201020	CARDSIM	BEL0785-BSD1
21) Sample	23	02301021	CARDSIM	BEL0785-MS1
22) Sample	24	02401022	CARDSIM	BEL0785-MSD1
23) Sample	25	02501023	CARDSIM	BEL0785-BLK1
24) Sample	26	02601024	CARDSIM	WEL0554-14
25) Sample	27	02701025	CARDSIM	WEL0554-15
26) Sample	28	02801026	CARDSIM	WEL0554-16
27) Sample	29	02901027	CARDSIM	WEL0554-17

Sequence completed Fri Jan 03 03:37:30 2025

T:\DATA1\MSD4\2025\JAN\02CD\2025 Jan 02 1520 Quality Log.LOG

T:\DATA1\MSD4\2025\JAN\02CD\2025 Jan 02 1520 Sequence Log .LOG



Caroko

QC Checklist for EPA 8270/625.1 - SOCs

Analysis Date: 1-2-25

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

Comments:
Analyst: *[Signature]*

Checklist Completed Date: 1-3-25

Reviewed By: *[Signature]*

Date: 1/6/25



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	2403403	9/25	1000
CLP Internal Standard	2403410	9/25	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
Permethrin	2400875	8/28	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	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 MeCl₂ (2403536).

Analyst Initials: MAH Date of Preparation: 12/1/24
Form CS06.00 – Eff 9 Mar 2015

PREPARATION BENCH SHEET

Organics

BEL0665

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses

SVOC 625 MISC

Spiking Solution(s)

2500042 Cardno Spk 100

Surrogate Solution(s)

2400924 CLP Acid Surr 2000
2403403 CLP B/N 1000

Lab Number	Sample and Source ID	Pre-Wt	Post-Wt	Initial (mL)	Prepared - By	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BEL0665-BLK1	Blank			12/15/24 13:40 MAH	1		25	
QC	BEL0665-BS1	LCS			12/15/24 13:40 MAH	1	100	25	
QC	BEL0665-MS1	Matrix Spike [WEL0554-06]			12/15/24 13:40 MAH	1	100	25	
QC	BEL0665-MSD1	Matrix Spike Dup [WEL0554-06]			12/15/24 13:40 MAH	1	100	25	
SVOC 625 MISC	WEL0554-03	D-7	1464	441	12/15/24 13:40 MAH	1		25	
SVOC 625 MISC	WEL0554-04	D-8	1484	438	12/15/24 13:40 MAH	1		25	
SVOC 625 MISC	WEL0554-05	E-2	1494	443	12/15/24 13:40 MAH	1		25	
SVOC 625 MISC	WEL0554-06	E-1	1503	443	12/15/24 13:40 MAH	1		25	
SVOC 625 MISC	WEL0554-07	E-1 DUP	1501	442	12/15/24 13:40 MAH	1		25	
SVOC 625 MISC	WEL0554-09	WW-3	1467	441	12/15/24 13:40 MAH	1		25	

Run Date: 1-2-25

Support Equipment:

Reagents

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2303363	Sulfuric Acid	80621
2400200	CLP I.S. Spike 2000	061422
2401071	Dichloromethane	64047

Batch Comments:

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

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Prepared By: *MMK*

Date: 12-15-24

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00101001.D
 Acq On : 2 Jan 2025 3:22 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : T:\Data1\MSD4\METHODS\2024\BNA-1230.M
 Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Tue Dec 31 10:43:10 2024

AutoFind: Scans 1936, 1937, 1938; Background Corrected with Scan 1911

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.6	337402	PASS
68	69	0.00	2	1.8	6246	PASS
70	69	0.00	2	0.5	1724	PASS
127	198	10	80	52.6	459093	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	873365	PASS
199	198	5	9	6.7	58221	PASS
275	198	10	60	30.2	264043	PASS
365	198	1	100	5.0	43483	PASS
441	443	0.01	150	75.0	139277	PASS
442	198	30	200	109.2	954112	PASS
443	442	15	24	19.5	185779	PASS

BNA-1230.M Fri Jan 03 10:22:50 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00101001.D
 Acq On : 2 Jan 2025 3:22 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-1230.M
 Title : EPA 8270D / EPA 625.1 - MSD4

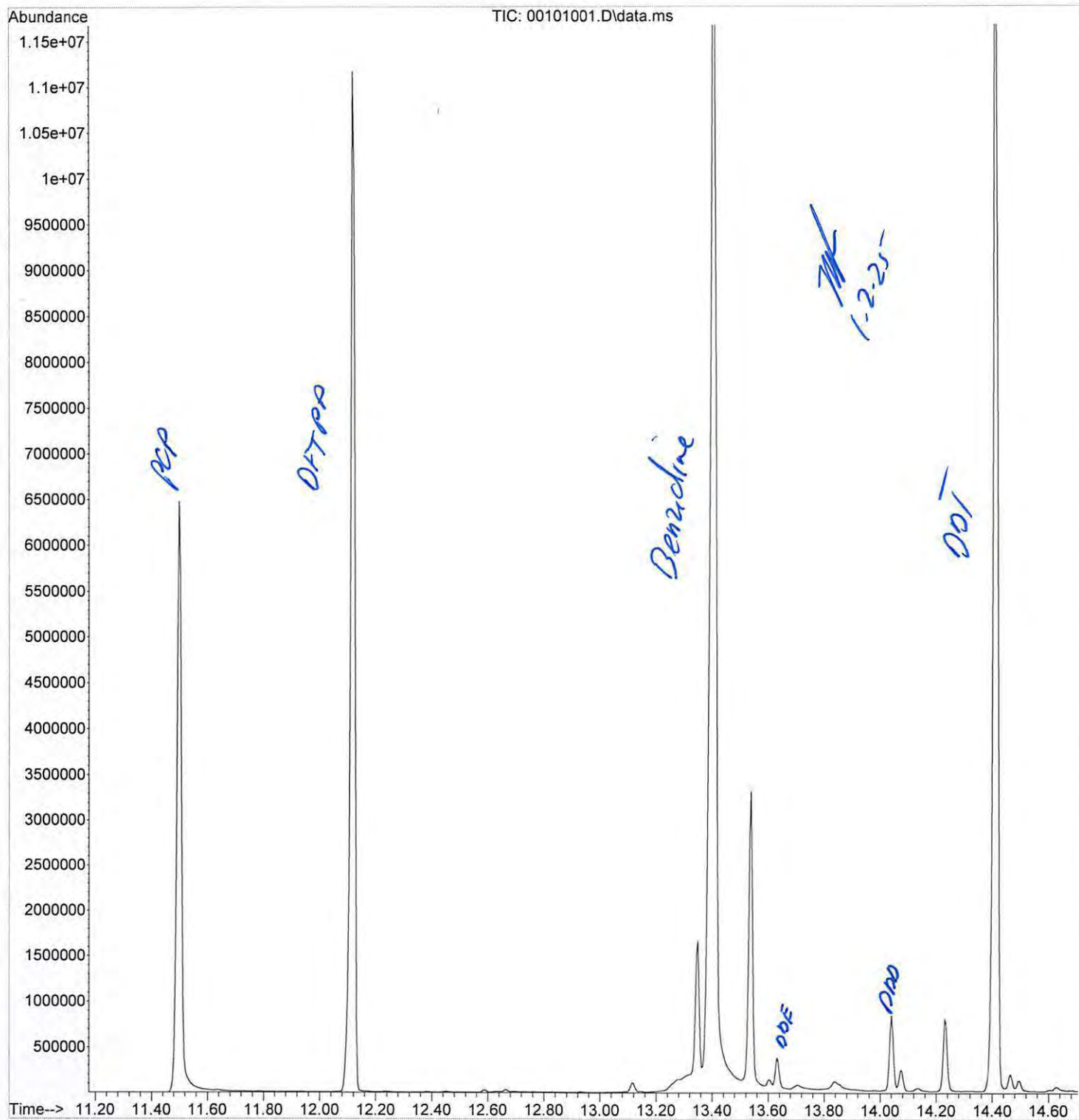
Signal : TIC: 00101001.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total	
1	13.631	2261	2264	2270	M	323120	2863399	2.00%	1.832%	DDE
2	14.040	2348	2353	2366	M	816873	9896655	6.90%	6.333%	DDD
3	14.411	2423	2433	2441	M	13112033	143503899	100.00%	91.834%	DDT

Sum of corrected areas: 156263953

BNA-1230.M Fri Jan 03 10:43:00 2025

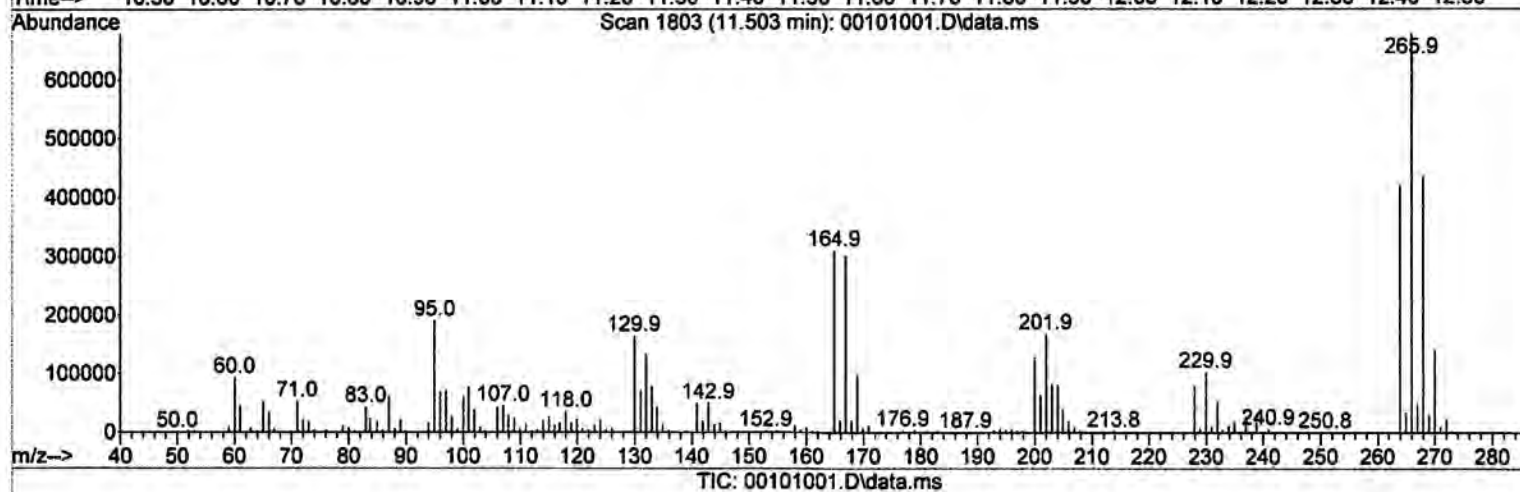
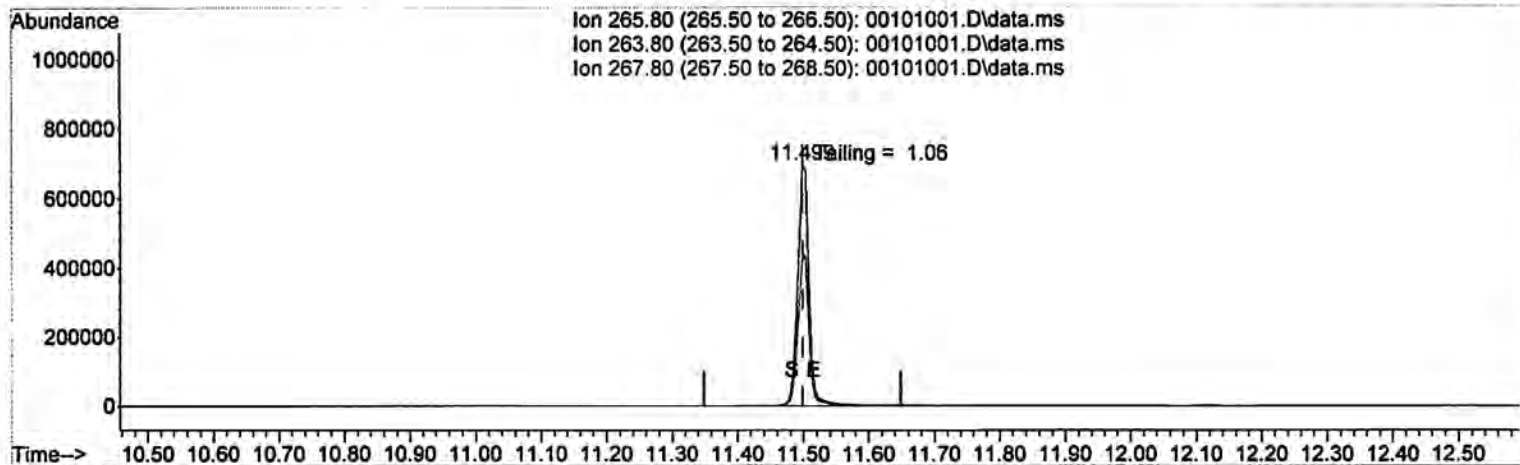
File :T:\Data1\MSD4\2025JAN\02CD\00101001.D
Operator : MAH
Acquired : 2 Jan 2025 3:22 pm using AcqMethod SVOCT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 1



Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00101001.D
 Acq On : 2 Jan 2025 3:22 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 15:56:50 2025
 Quant Method : T:\Data1\MSD4\METHODS\2024\BNA-1230.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 QLast Update : Tue Dec 31 10:43:10 2024
 Response via : Initial Calibration



(68) Pentachlorophenol

11.502min (+ 0.003) 0.00 ug/mL

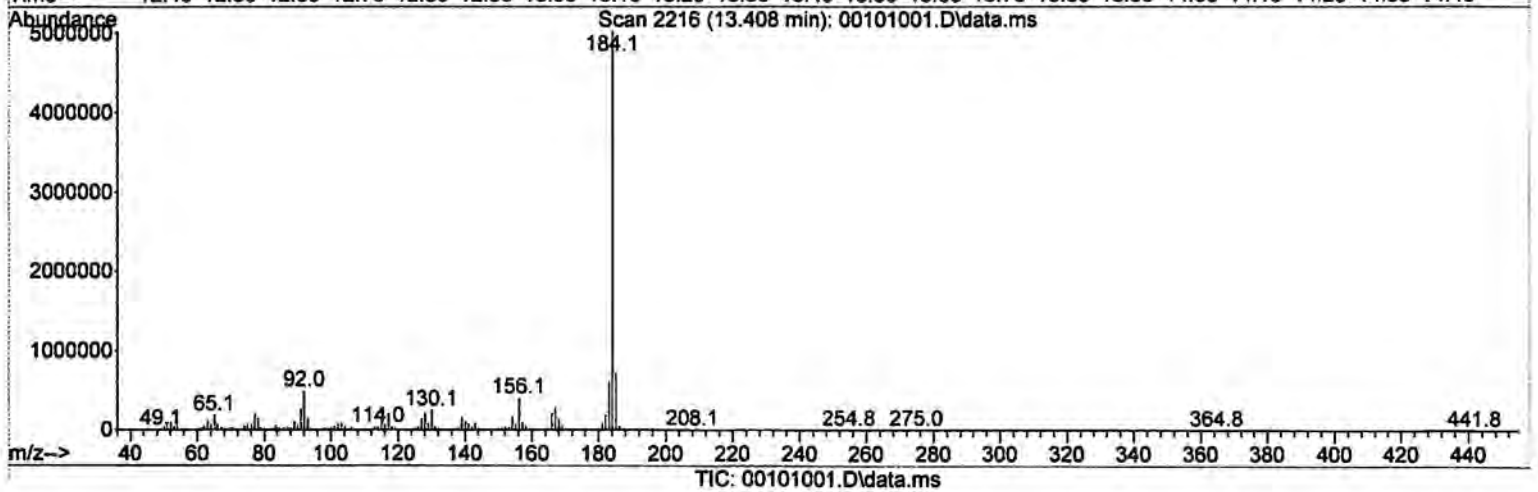
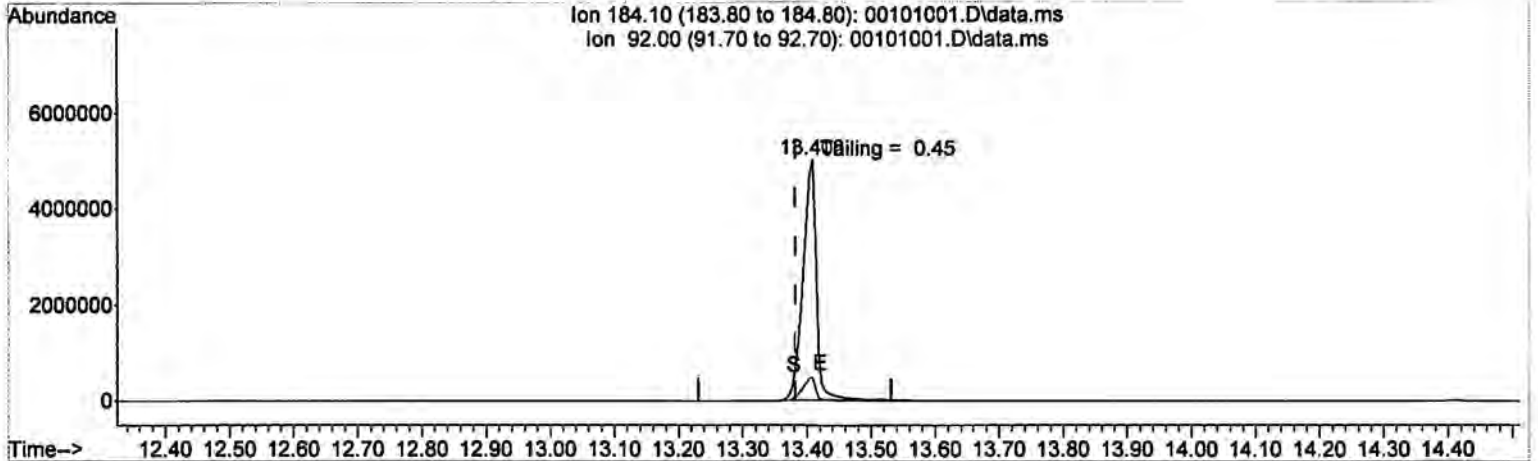
response 8057161

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	62.60	62.84
267.80	63.30	63.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00101001.D
 Acq On : 2 Jan 2025 3:22 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 15:56:50 2025
 Quant Method : T:\Data1\MSD4\METHODS\2024\BNA-1230.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 QLast Update : Tue Dec 31 10:43:10 2024
 Response via : Initial Calibration



(74) Benzidine

13.408min (+ 0.027) 0.00 ug/mL

response 72152312

Ion	Exp%	Act%
184.10	100.00	100.00
92.00	8.80	10.14
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00101008.D
 Acq On : 2 Jan 2025 6:33 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : T:\Data1\MSD4\METHODS\2024\BNA-1230.M
 Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Tue Dec 31 10:43:10 2024

AutoFind: Scans 1935, 1936, 1937; Background Corrected with Scan 1915

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.4	350674	PASS
68	69	0.00	2	1.8	6677	PASS
70	69	0.00	2	0.5	1974	PASS
127	198	10	80	52.6	479482	PASS
197	198	0.00	2	0.1	816	PASS
198	198	100	100	100.0	912341	PASS
199	198	5	9	6.8	62363	PASS
275	198	10	60	30.5	278165	PASS
365	198	1	100	4.9	44384	PASS
441	443	0.01	150	76.7	148048	PASS
442	198	30	200	109.7	1001109	PASS
443	442	15	24	19.3	192939	PASS

BNA-1230.M Fri Jan 03 10:43:58 2025

Internal Standard ICal Average Responses	010225 CARDNO (method)
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	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
0.05			39586761.63		39586761.63	
10			31411052.74		31411052.74	
5			37944356.68		37944356.68	
1			34334562.88		34334562.88	
0.5			32911007.93		32911007.93	
0.1			27350263		27350263	
Average	#DIV/0!	#DIV/0!	33923001	#DIV/0!	33923001	#DIV/0!

50%	#DIV/0!	#DIV/0!	16961500	#DIV/0!	16961500	#DIV/0!
150%	#DIV/0!	#DIV/0!	50884501	#DIV/0!	50884501	#DIV/0!

Analyst: MAH

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00201002.D
 Acq On : 2 Jan 2025 3:49 pm
 Operator : MAH
 Sample : CARDNO 10 PPM
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 10:45:11 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.913	164	31411053	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.962	240	24485555	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	35043429	25.58	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	102.32%	
Target Compounds						
						Qvalue
2) Atrazine	11.408	200	5797893	9.89	ug/mL	99
3) Metolachlor	12.597	162	16714343	9.88	ug/mL	98
4) Chlorpyrifos	12.604	197	3333439	10.16	ug/mL	99
7) Permethins	15.767	183	8915523m	9.86	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00301003.D
 Acq On : 2 Jan 2025 4:17 pm
 Operator : MAH
 Sample : CARDNO 5 PPM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 03 10:46:24 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.913	164	37944357	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.962	240	29469186	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.700	244	42334376	25.68	ug/mL	0.00
Spiked Amount	25.000		Recovery	= 102.72%		
Target Compounds						
				Qvalue		
2) Atrazine	11.405	200	3327829	5.33	ug/mL	99
3) Metolachlor	12.597	162	9774389	5.34	ug/mL	96
4) Chlorpyrifos	12.603	197	1938306	5.29	ug/mL	97
7) Permerthins	15.762	183	4653365m	5.30	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00401004.D
 Acq On : 2 Jan 2025 4:44 pm
 Operator : MAH
 Sample : CARDNO 1 PPM
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 10:47:09 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.914	164	34334563	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.962	240	27111407	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.700	244	37425867	24.67	ug/mL	0.00
Spiked Amount	25.000		Recovery =	98.68%		
Target Compounds						
						Qvalue
2) Atrazine	11.404	200	440940	0.90	ug/mL	99
3) Metolachlor	12.595	162	1320970	0.90	ug/mL	95
4) Chlorpyrifos	12.602	197	284291	0.93	ug/mL	99
7) Permerthins	15.762	183	519652m	0.84	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00501005.D
 Acq On : 2 Jan 2025 5:11 pm
 Operator : MAH
 Sample : CARDNO 0.5 PPM
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 03 10:48:04 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.913	164	32911008	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.961	240	27051742	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	37271653	24.63	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	98.52%	
Target Compounds						
					Qvalue	
2) Atrazine	11.404	200	184703	0.40	ug/mL	100
3) Metolachlor	12.595	162	548984	0.40	ug/mL	95
4) Chlorpyrifos	12.602	197	121280	0.42	ug/mL	98
7) Permethins	15.762	183	245528m	0.41	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00601006.D
 Acq On : 2 Jan 2025 5:39 pm
 Operator : MAH
 Sample : CARDNO 0.1 PPM
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 03 10:48:56 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.912	164	27350263	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.960	240	20192960	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	28769055	25.46	ug/mL	0.00
Spiked Amount	25.000		Recovery	= 101.84%		
Target Compounds						
				Qvalue		
2) Atrazine	11.401	200	29391m	0.08	ug/mL	
3) Metolachlor	12.595	162	88420	0.08	ug/mL	93
4) Chlorpyrifos	12.602	197	19079	0.08	ug/mL	92
7) Permerthins	15.762	183	35269m	0.08	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 00701007.D
 Acq On : 2 Jan 2025 6:06 pm
 Operator : MAH
 Sample : CARDNO 0.05 PPM
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 03 10:49:39 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.913	164	39586762	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.964	240	30082485	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	40369679	23.99	ug/mL	0.00
Spiked Amount	25.000		Recovery =	95.96%		
Target Compounds						
						Qvalue
2) Atrazine	11.405	200	22804	0.04	ug/mL#	82
3) Metolachlor	12.595	162	69774	0.04	ug/mL	94
4) Chlorpyrifos	12.595	197	17377m	0.05	ug/mL	
7) Permethins	15.762	183	26778m	0.04	ug/mL	

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01101010.D
 Acq On : 2 Jan 2025 7:28 pm
 Operator : MAH
 Sample : BEL0665-BS1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 03 09:23:52 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Acenaphthene-d10	9.913	164	31798646	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.962	240	27231414	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	34861514	22.88	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	91.52%	
Target Compounds						
2) Atrazine	11.401	200	4011241m	7.25	ug/mL	Qvalue
3) Metolachlor	12.597	162	13263341	8.08	ug/mL	96
4) Chlorpyrifos	12.602	197	2487688	7.78	ug/mL	98
7) Permerthins	15.768	183	17275977m	14.42	ug/mL	

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

Cardo-010225.M Fri Jan 03 09:35:03 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01201011.D
 Acq On : 2 Jan 2025 7:55 pm
 Operator : MAH
 Sample : BEL0665-MS1
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 03 09:24:41 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Acenaphthene-d10	9.912	164	29498729	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.961	240	23742777	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	32246301	24.27	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	97.08%	
Target Compounds						
						Qvalue
2) Atrazine	11.401	200	3692375m	7.21	ug/mL	
3) Metolachlor	12.597	162	11527582	7.65	ug/mL	97
4) Chlorpyrifos	12.602	197	2077844	7.08	ug/mL	97
7) Permerthins	15.762	183	11103843m	11.74	ug/mL	

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

Cardo-010225.M Fri Jan 03 09:35:24 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01301012.D
 Acq On : 2 Jan 2025 8:22 pm
 Operator : MAH
 Sample : BEL0665-MSD1
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 03 09:25:37 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.912	164	30221580	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.960	240	27078947	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.698	244	34006228	22.45	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	89.80%	
Target Compounds						
2) Atrazine	11.401	200	3923198m	7.43	ug/mL	Qvalue
3) Metolachlor	12.595	162	12225537m	7.87	ug/mL	
4) Chlorpyrifos	12.595	197	2322677m	7.65	ug/mL	
7) Permerthins	15.762	183	13129587m	12.03	ug/mL	

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

Cardo-010225.M Fri Jan 03 09:35:47 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01401013.D
 Acq On : 2 Jan 2025 8:50 pm
 Operator : MAH
 Sample : BEL0665-BLK1
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 03 09:12:15 2025
 Quant Method : T:\Data1\MSD4\METHODS\2024\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.914	164	36004378	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.963	240	29374302	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.700	244	39069472	23.77	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	95.08%	
Target Compounds						Qvalue

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

Cardo-010225.M Fri Jan 03 09:36:39 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01501014.D
 Acq On : 2 Jan 2025 9:18 pm
 Operator : MAH
 Sample : WEL0554-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 03 09:37:33 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.914	164	35341800	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.962	240	28413521	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	34802419	21.89	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	87.56%	
Target Compounds						
						Qvalue

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

Cardo-010225.M Fri Jan 03 09:37:48 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01601015.D
 Acq On : 2 Jan 2025 9:45 pm
 Operator : MAH
 Sample : WEL0554-04
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 03 09:40:02 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.913	164	31193987	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.962	240	25797968	20.00	ug/mL	0.00

System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	31199560	21.62	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	86.48%

Target Compounds	Qvalue

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

Cardo-010225.M Fri Jan 03 09:40:22 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01701016.D
 Acq On : 2 Jan 2025 10:12 pm
 Operator : MAH
 Sample : WEL0554-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 03 09:41:06 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Acenaphthene-d10	9.913	164	32598364	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.961	240	26071538	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.700	244	36083114	24.74	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	98.96%
Target Compounds						
						Qvalue

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

Cardo-010225.M Fri Jan 03 09:42:03 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01801017.D
 Acq On : 2 Jan 2025 10:40 pm
 Operator : MAH
 Sample : WEL0554-06
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 03 09:42:36 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.914	164	37728453	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.963	240	31857411	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.700	244	39867436	22.37	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	89.48%	
Target Compounds						Qvalue

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

Cardo-010225.M Fri Jan 03 09:42:53 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01901018.D
 Acq On : 2 Jan 2025 11:08 pm
 Operator : MAH
 Sample : WEL0554-09
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 03 09:43:27 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.913	164	36175408	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.964	240	35803554	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.700	244	46459698	23.19	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	92.76%
Target Compounds						Qvalue

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

Cardo-010225.M Fri Jan 03 09:44:31 2025

PREPARATION BENCH SHEET

Organics

BEL0785

Matrix: Solid

Prepared using: SVOC - SVOC Solid

Analyses

PAH 8270E
SVOC 8270E

Spiking Solution(s)

2404220 EPA 507 Pest Std.
2404410 8270MM+permthrin

Surrogate Solution(s)

2403403 CLP B/N 1000
2403404 CLP Acid Surr 2000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BEL0785-BLK1	Blank			12/18/24 12:17 BMM	5	1		25	
QC	BEL0785-BS1	LCS			12/18/24 12:17 BMM	5	1	25	25	
QC	BEL0785-BSD1	LCS Dup			12/18/24 12:17 BMM	5	1	25	25	
QC	BEL0785-MS1	Matrix Spike [WEL0554-16]			12/18/24 12:17 BMM	5.06	1	25	25	
QC	BEL0785-MSD1	Matrix Spike Dup [WEL0554-16]			12/18/24 12:17 BMM	5.07	1	25	25	
PAH 8270E	MEL0590-01	X4K0392-01 (EP-A5)	12/17/2024	12/01/2024	12/18/24 12:17 BMM	5.01	1		25	Reference: MCA0481
SVOC 8270E	WEL0554-14	D-7 Sediment	12/24/2024	12/23/2024	12/18/24 12:17 BMM	4.94	1		25	
SVOC 8270E	WEL0554-15	D-8 Sediment	12/24/2024	12/23/2024	12/18/24 12:17 BMM	4.93	1		25	
SVOC 8270E	WEL0554-16	E-2 Sediment	12/24/2024	12/23/2024	12/18/24 12:17 BMM	5.05	1		25	
PAH 8270E	WEL0554-16	E-2 Sediment		12/09/2024	12/18/24 12:17 BMM	5.05	1		25	Added for BatchQC in: BEL0785
SVOC 8270E	WEL0554-17	WW-2 Sediment	12/24/2024	12/23/2024	12/18/24 12:17 BMM	5.04	1		25	

Reagents

Standard	Description	LotNum
2401309	Acetone HR-GC	64026
2401538	Hydromatrix	6681433-19
2402856	Na2SO4 muffled	239313
2403559	Dichloromethane	SHBR7767 34856-4L
2403786	Autosampler Vials - 2 mL	307230824

BMM

Analyst: _____ Date: 01/03/25 Run Date: 01/02/25 Date: 01/03/25

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02101019.D
 Acq On : 2 Jan 2025 11:36 pm
 Operator : MAH
 Sample : BEL0785-BS1
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 03 09:15:37 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.909	164	29998789	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.964	240	27579319	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.699	244	37548769	24.33	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	97.32%
Target Compounds						
						Qvalue
2) Atrazine	11.403	200	1372100	2.99	ug/mL#	95
3) Metolachlor	12.594	162	3690524	2.73	ug/mL	98
4) Chlorpyrifos	12.601	197	758018	2.73	ug/mL	96
7) Permerthins	15.762	183	3565787m	4.52	ug/mL	

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02201020.D
 Acq On : 3 Jan 2025 12:03 am
 Operator : MAH
 Sample : BEL0785-BSD1
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 03 09:17:52 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.910	164	36413961	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.963	240	33369808	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.698	244	34073829	18.25	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	73.00%	
Target Compounds						
						Qvalue
2) Atrazine	11.404	200	1294103	2.37	ug/mL#	93
3) Metolachlor	12.593	162	3500493	2.17	ug/mL	97
4) Chlorpyrifos	12.600	197	722514	2.17	ug/mL	97
7) Permerthins	15.762	183	2117514m	2.49	ug/mL	

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02301021.D
 Acq On : 3 Jan 2025 12:30 am
 Operator : MAH
 Sample : BEL0785-MS1
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 03 09:19:11 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.911	164	36578355	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.967	240	30075863	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.704	244	37421244	22.24	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	88.96%	
Target Compounds						
						Qvalue
2) Atrazine	11.410	200	1293225m	2.36	ug/mL	
3) Metolachlor	12.595	162	3061147m	1.90	ug/mL	
4) Chlorpyrifos	12.605	197	722381m	2.16	ug/mL	
7) Permerthins	15.762	183	2048527m	2.65	ug/mL	

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02401022.D
 Acq On : 3 Jan 2025 12:57 am
 Operator : MAH
 Sample : BEL0785-MSD1
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 03 09:23:18 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.860	164	35255443m	20.00	ug/mL	-0.05
5) Chrysene-d12	14.966	240	27970216	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.698	244	33542258m	21.43	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	85.72%	
Target Compounds						
						Qvalue
2) Atrazine	11.410	200	938168m	1.81	ug/mL	
3) Metolachlor	12.595	162	2718770m	1.76	ug/mL	
4) Chlorpyrifos	12.605	197	493522m	1.55	ug/mL	
7) Permerthins	15.762	183	2076645m	2.85	ug/mL	

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 01301012.D
 Acq On : 2 Jan 2025 8:22 pm
 Operator : MAH
 Sample : BEL0665-MSD1
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 03 09:25:37 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.912	164	30221580	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.960	240	27078947	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.698	244	34006228	22.45	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	89.80%	
Target Compounds						
						Qvalue
2) Atrazine	11.401	200	3923198m	7.43	ug/mL	
3) Metolachlor	12.595	162	12225537m	7.87	ug/mL	
4) Chlorpyrifos	12.595	197	2322677m	7.65	ug/mL	
7) Permerthins	15.762	183	13129587m	12.03	ug/mL	

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

Cardo-010225.M Fri Jan 03 09:25:44 2025

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02601024.D
 Acq On : 3 Jan 2025 1:52 am
 Operator : MAH
 Sample : WEL0554-14
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 03 09:26:28 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.912	164	31390667m	20.00	ug/mL	0.00
5) Chrysene-d12	14.962	240	26094421m	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.698	244	33927429m	23.24	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	92.96%	

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02701025.D
 Acq On : 3 Jan 2025 2:20 am
 Operator : MAH
 Sample : WEL0554-15
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jan 03 09:32:20 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Acenaphthene-d10	9.869	164	32635905m	20.00	ug/mL	-0.04
5) Chrysene-d12	14.962	240	27984738m	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.698	244	34142635m	21.81	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	87.24%	

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02801026.D
 Acq On : 3 Jan 2025 2:48 am
 Operator : MAH
 Sample : WEL0554-16
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jan 03 09:35:16 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.912	164	27917841	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.962	240	22983899m	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.705	244	33444493	26.01	ug/mL	0.00
Spiked Amount	25.000				Recovery =	104.04%

Target Compounds Qvalue

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

Data Path : T:\Data1\MSD4\2025\JAN\02CD\
 Data File : 02901027.D
 Acq On : 3 Jan 2025 3:16 am
 Operator : MAH
 Sample : WEL0554-17
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jan 03 09:36:47 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-010225.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Fri Jan 03 09:09:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.911	164	28938017	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.961	240	24579555m	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.700	244	29871817	21.72	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	86.88%	

Target Compounds Qvalue

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

Methods: 8270C / EPA 6850 / EPA 8321B

BFA0232

Instrument: LC-MS-MS

Ext. Method: EPA 3535 SPE/ Liq-Solid microextraction and derivatization

Internal Standard (IS)	Solution #	Concentration (ppm)
Glyphosate- ¹³ C ₂	2401322	10
Matrix Spiking Info (MS/MSD)	Solution #	Concentration (ppm)
Glyphosate / AMPA	2302657 2403349	25/50

Standard or Sample # (Glyphosate/AMPA)	Reaction volume	Extract/Water (mL)	FMOCC (mL)	Buffer (mL)	IS (μL)	Cal Std or Spike (μL)	Final Mult
250 / 500	2 ml	0.980	0.5	0.5	10	20	
125 / 250	2 ml	0.990	0.5	0.5	10	10	
50 / 100	2 ml	0.996	0.5	0.5	10	4	
25 / 50	2 ml	0.998	0.5	0.5	10	2	
12.5 / 25	2 ml	0.999	0.5	0.5	10	1	
6.25 / 12.5	2 ml	0.999	0.5	0.5	10	0.5	
BFA0232-BLK1	2 ml	1	0.5	0.5	10	0	
BFA0232-BS1	2 ml	0.996	0.5	0.5	10	4	
BFA0232-MS1	2 ml	0.25/0.75	0.5	0.50	10	4	
BFA0232-MSD1	2 ml	0.25/0.75	0.5	0.50	10	4	
WEL0554-14	2 ml	0.25/0.75	0.5	0.50	10	0	
WEL0554-15	2 ml	0.25/0.75	0.5	0.50	10	0	
WEL0554-16	2 ml	0.25/0.75	0.5	0.50	10	0	
WEL0554-17	2 ml	0.25/0.75	0.5	0.50	10	0	

Sample extracts were transferred to centrifuge tubes (stds and samples plus reagents)
 Prepped samples were heated overnight at 40°C in a water bath.
 Derivatized samples were diluted into well plate for analysis as follows
 (100 μL 2% phosphoric acid / 700 μL water / 200 μL derivatized extract)

Reagents

FMOCC – 5 mg/mL in ACN; 2% Phosphoric Acid; Buffer – 5 % Sodium Tetraborate

B. Petter
1/9/25

Sample Extraction/Homogenizer information

Sample #	Weight (g)	Buffer amount	MULT
WEL0554-14	10.01	100mL	
WEL0554-15	10.17	I	
WEL0554-16	10.03	I	
WEL0554-17	10.10	I	

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
1	250/500 gly/amp	Standard	1/9/2025 9:51:	010925_gly\	1.00	Glyphosate	2.24e+005	250.	6.21e+004	248.	99.4
2	250/500 gly/amp	Standard	1/9/2025 9:51:	010925_gly\	1.00	Glyphosate1	6.85e+004	250.	6.21e+004	248.	99.3
3	250/500 gly/amp	Standard	1/9/2025 9:51:	010925_gly\	1.00	AMPA	1.82e+005	500.	6.21e+004	503.	101.
4	250/500 gly/amp	Standard	1/9/2025 9:51:	010925_gly\	1.00	AMPA1	5.82e+004	500.	6.21e+004	505.	101.
5	125/250 gly/amp	Standard	1/9/2025 9:58:	010925_gly\	1.00	Glyphosate	1.50e+005	125.	7.73e+004	129.	103.
6	125/250 gly/amp	Standard	1/9/2025 9:58:	010925_gly\	1.00	Glyphosate1	4.81e+004	125.	7.73e+004	129.	104.
7	125/250 gly/amp	Standard	1/9/2025 9:58:	010925_gly\	1.00	AMPA	1.30e+005	250.	7.73e+004	246.	98.6
8	125/250 gly/amp	Standard	1/9/2025 9:58:	010925_gly\	1.00	AMPA1	3.97e+004	250.	7.73e+004	242.	97.0
9	50/100 gly/ampa	Standard	1/9/2025 10:05	010925_gly\	1.00	Glyphosate	6.96e+004	50.0	9.49e+004	47.7	95.5
10	50/100 gly/ampa	Standard	1/9/2025 10:05	010925_gly\	1.00	Glyphosate1	2.11e+004	50.0	9.49e+004	44.9	89.8
11	50/100 gly/ampa	Standard	1/9/2025 10:05	010925_gly\	1.00	AMPA	6.66e+004	100.	9.49e+004	95.5	95.5
12	50/100 gly/ampa	Standard	1/9/2025 10:05	010925_gly\	1.00	AMPA1	2.01e+004	100.	9.49e+004	95.2	95.2
13	25/50 gly/ampa	Standard	1/9/2025 10:12	010925_gly\	1.00	Glyphosate	3.60e+004	25.0	9.74e+004	24.3	97.0
14	25/50 gly/ampa	Standard	1/9/2025 10:12	010925_gly\	1.00	Glyphosate1	1.29e+004	25.0	9.74e+004	27.1	108.
15	25/50 gly/ampa	Standard	1/9/2025 10:12	010925_gly\	1.00	AMPA	3.93e+004	50.0	9.74e+004	54.7	109.
16	25/50 gly/ampa	Standard	1/9/2025 10:12	010925_gly\	1.00	AMPA1	1.25e+004	50.0	9.74e+004	57.8	116.
17	12.5/25 gly/amp	Standard	1/9/2025 10:18	010925_gly\	1.00	Glyphosate	2.08e+004	12.5	1.06e+005	13.2	106.
18	12.5/25 gly/amp	Standard	1/9/2025 10:18	010925_gly\	1.00	Glyphosate1	6.30e+003	12.5	1.06e+005	13.0	104.
19	12.5/25 gly/amp	Standard	1/9/2025 10:18	010925_gly\	1.00	AMPA	2.09e+004	25.0	1.06e+005	27.4	109.
20	12.5/25 gly/amp	Standard	1/9/2025 10:18	010925_gly\	1.00	AMPA1	6.04e+003	25.0	1.06e+005	26.9	108.
21	6.25/12.5 gly/am	Standard	1/9/2025 10:25	010925_gly\	1.00	Glyphosate	9.54e+003	6.25	1.11e+005	6.21	99.4
22	6.25/12.5 gly/am	Standard	1/9/2025 10:25	010925_gly\	1.00	Glyphosate1	2.49e+003	6.25	1.11e+005	5.94	95.0
23	6.25/12.5 gly/am	Standard	1/9/2025 10:25	010925_gly\	1.00	AMPA	7.69e+003	12.5	1.11e+005	10.8	86.5
24	6.25/12.5 gly/am	Standard	1/9/2025 10:25	010925_gly\	1.00	AMPA1	2.01e+003	12.5	1.11e+005	10.5	83.6
25	BFA0232-BLK1	Quality Con	1/9/2025 10:32	010925_gly\	1.00	Glyphosate	0.00e+000	0.00	1.20e+005	No Peak	N/A
26	BFA0232-BLK1	Quality Con	1/9/2025 10:32	010925_gly\	1.00	Glyphosate1	0.00e+000	0.00	1.20e+005	No Peak	N/A
27	BFA0232-BLK1	Quality Con	1/9/2025 10:32	010925_gly\	1.00	AMPA	0.00e+000	0.00	1.20e+005	No Peak	N/A
28	BFA0232-BLK1	Quality Con	1/9/2025 10:32	010925_gly\	1.00	AMPA1	0.00e+000	0.00	1.20e+005	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
29	BFA0232-BS1	Quality Con	1/9/2025 10:39	010925_gly\	1.00	Glyphosate	9.15e+004	50.0	1.19e+005	50.1	100.
30	BFA0232-BS1	Quality Con	1/9/2025 10:39	010925_gly\	1.00	Glyphosate1	2.87e+004	50.0	1.19e+005	48.5	97.1
31	BFA0232-BS1	Quality Con	1/9/2025 10:39	010925_gly\	1.00	AMPA	8.63e+004	100.	1.19e+005	98.9	98.9
32	BFA0232-BS1	Quality Con	1/9/2025 10:39	010925_gly\	1.00	AMPA1	2.23e+004	100.	1.19e+005	84.0	84.0
33	BFA0232-MS1	Unknown	1/9/2025 10:45	010925_gly\	1.00	Glyphosate	3.79e+004	N/A	4.97e+004	49.7	N/A
34	BFA0232-MS1	Unknown	1/9/2025 10:45	010925_gly\	1.00	Glyphosate1	1.14e+004	N/A	4.97e+004	46.3	N/A
35	BFA0232-MS1	Unknown	1/9/2025 10:45	010925_gly\	1.00	AMPA	3.82e+004	N/A	4.97e+004	105.	N/A
36	BFA0232-MS1	Unknown	1/9/2025 10:45	010925_gly\	1.00	AMPA1	1.20e+004	N/A	4.97e+004	109.	N/A
37	BFA0232-MSD1	Unknown	1/9/2025 10:52	010925_gly\	1.00	Glyphosate	4.23e+004	N/A	4.93e+004	56.0	N/A
38	BFA0232-MSD1	Unknown	1/9/2025 10:52	010925_gly\	1.00	Glyphosate1	1.31e+004	N/A	4.93e+004	53.6	N/A
39	BFA0232-MSD1	Unknown	1/9/2025 10:52	010925_gly\	1.00	AMPA	3.93e+004	N/A	4.93e+004	109.	N/A
40	BFA0232-MSD1	Unknown	1/9/2025 10:52	010925_gly\	1.00	AMPA1	1.24e+004	N/A	4.93e+004	113.	N/A
41	WEL0554-14	Unknown	1/9/2025 10:59	010925_gly\	1.00	Glyphosate	0.00e+000	N/A	5.03e+004	No Peak	N/A
42	WEL0554-14	Unknown	1/9/2025 10:59	010925_gly\	1.00	Glyphosate1	0.00e+000	N/A	5.03e+004	No Peak	N/A
43	WEL0554-14	Unknown	1/9/2025 10:59	010925_gly\	1.00	AMPA	0.00e+000	N/A	5.03e+004	No Peak	N/A
44	WEL0554-14	Unknown	1/9/2025 10:59	010925_gly\	1.00	AMPA1	0.00e+000	N/A	5.03e+004	No Peak	N/A
45	WEL0554-15	Unknown	1/9/2025 11:06	010925_gly\	1.00	Glyphosate	0.00e+000	N/A	4.52e+004	No Peak	N/A
46	WEL0554-15	Unknown	1/9/2025 11:06	010925_gly\	1.00	Glyphosate1	0.00e+000	N/A	4.52e+004	No Peak	N/A
47	WEL0554-15	Unknown	1/9/2025 11:06	010925_gly\	1.00	AMPA	0.00e+000	N/A	4.52e+004	No Peak	N/A
48	WEL0554-15	Unknown	1/9/2025 11:06	010925_gly\	1.00	AMPA1	0.00e+000	N/A	4.52e+004	No Peak	N/A
49	WEL0554-16	Unknown	1/9/2025 11:12	010925_gly\	1.00	Glyphosate	0.00e+000	N/A	8.04e+004	No Peak	N/A
50	WEL0554-16	Unknown	1/9/2025 11:12	010925_gly\	1.00	Glyphosate1	0.00e+000	N/A	8.04e+004	No Peak	N/A
51	WEL0554-16	Unknown	1/9/2025 11:12	010925_gly\	1.00	AMPA	0.00e+000	N/A	8.04e+004	No Peak	N/A
52	WEL0554-16	Unknown	1/9/2025 11:12	010925_gly\	1.00	AMPA1	0.00e+000	N/A	8.04e+004	No Peak	N/A
53	WEL0554-17	Unknown	1/9/2025 11:19	010925_gly\	1.00	Glyphosate	4.60e+001	N/A	6.77e+004	0.808	N/A
54	WEL0554-17	Unknown	1/9/2025 11:19	010925_gly\	1.00	Glyphosate1	0.00e+000	N/A	6.77e+004	No Peak	N/A
55	WEL0554-17	Unknown	1/9/2025 11:19	010925_gly\	1.00	AMPA	0.00e+000	N/A	6.77e+004	No Peak	N/A
5	WEL0554-17	Unknown	1/9/2025 11:19	010925_gly\	1.00	AMPA1	0.00e+000	N/A	6.77e+004	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
57	CCV 25/50	Quality Con	1/9/2025 11:26	010925_gly\	1.00	Glyphosate	4.24e+004	25.0	1.19e+005	23.4	93.5
58	CCV 25/50	Quality Con	1/9/2025 11:26	010925_gly\	1.00	Glyphosate1	1.24e+004	25.0	1.19e+005	21.6	86.5
59	CCV 25/50	Quality Con	1/9/2025 11:26	010925_gly\	1.00	AMPA	4.44e+004	50.0	1.19e+005	50.5	101.
60	CCV 25/50	Quality Con	1/9/2025 11:26	010925_gly\	1.00	AMPA1	1.35e+004	50.0	1.19e+005	51.1	102.

Starting sequence Wed Jan 15 11:30:53 2025

Instrument Name: MSD4

Sequence File: T:\Data1\MSD4\SEQUENCES\2024\011325DC.s

Comment: 625 8270 DCOI

Operator: MAH

Data Path: T:\DATA1\MSD4\2025\JAN\15DC\

Method Path: C:\MSDCHEM\1\METHODS\

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	1	00101001	SVOCT1	SYS
2) Sample	2	00201002	DCOITSIM	3000 PPB ICAL
3) Sample	3	00301003	DCOITSIM	2000 PPB ICAL
4) Sample	4	00401004	DCOITSIM	1000 PPB ICAL
5) Sample	5	00501005	DCOITSIM	500 PPB ICAL
6) Sample	6	00601006	DCOITSIM	250 PPB ICAL
7) Sample	7	00701007	DCOITSIM	100 PPB ICAL
8) Sample	8	00801008	DCOITSIM	50 PPB ICAL
9) Sample	21	02101009	CARDSIM	CARDNO 10 PPM
10) Sample	22	02201010	CARDSIM	CARDNO 5 PPM
11) Sample	23	02301011	CARDSIM	CARDNO 1 PPM
12) Sample	24	02401012	CARDSIM	CARDNO 0.5 PPM
13) Sample	25	02501013	CARDSIM	CARDNO 0.1 PPM
14) Sample	26	02601014	CARDSIM	CARDNO 0.05 PPM
15) Sample	9	00901015	DCOITSIM	ICV 1000 PPB ICAL
16) Sample	10	01001016	SVOCT1	BNA 10 PPM
17) Sample	1	00101017	SVOCT1	SYS
18) Sample	11	01101018	DCOITSIM	BFA0458-BS1
19) Sample	12	01201019	DCOITSIM	BFA0458-BSD1
20) Sample	13	01301020	DCOITSIM	BFA0458-BLK1
21) Sample	27	02701021	CARDSIM	BEL0665-BLK1
22) Sample	28	02801022	CARDSIM	WEL0554-07
23) Sample	14	01401023	DCOITSIM	MFA0203-01
24) Sample	15	01501024	DCOITSIM	MFA0203-02
25) Sample	16	01601025	DCOITSIM	MFA0204-01
26) Sample	17	01701026	DCOITSIM	MFA0205-01
27) Sample	18	01801027	DCOITSIM	MFA0205-02
28) Sample	19	01901028	DCOITSIM	MFA0205-03
29) Sample	20	02001029	DCOITSIM	MFA0206-01
30) Sample	31	03101030	SVOCT1	MEL0758-01

Sequence completed Thu Jan 16 00:50:40 2025

T:\DATA1\MSD4\2025\JAN\15DC\2025 Jan 15 1130 Quality Log.LOG

T:\DATA1\MSD4\2025\JAN\15DC\2025 Jan 15 1130 Sequence Log .LOG

Cardho



QC Checklist for EPA 8270/625.1 - SOCs

Analysis Date: 1-15-25

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

Comments:

Analyst: MM

Checklist Completed Date: 1-16-25

Reviewed By: [Signature]

Date: 1/16/25



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	2403403	9/25	1000
CLP Internal Standard	2403410	9/25	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
Permethrin	2400875	8/28	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	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 MeCl₂ (2403536).

Response Factor Report MSD4

Method Path : T:\Data1\MSD4\METHODS\2025\
 Method File : Cardo-011525.M
 Title : EPA 8270D - GC MSD4
 Last Update : Thu Jan 16 08:57:49 2025
 Response Via : Initial Calibration

Calibration Files

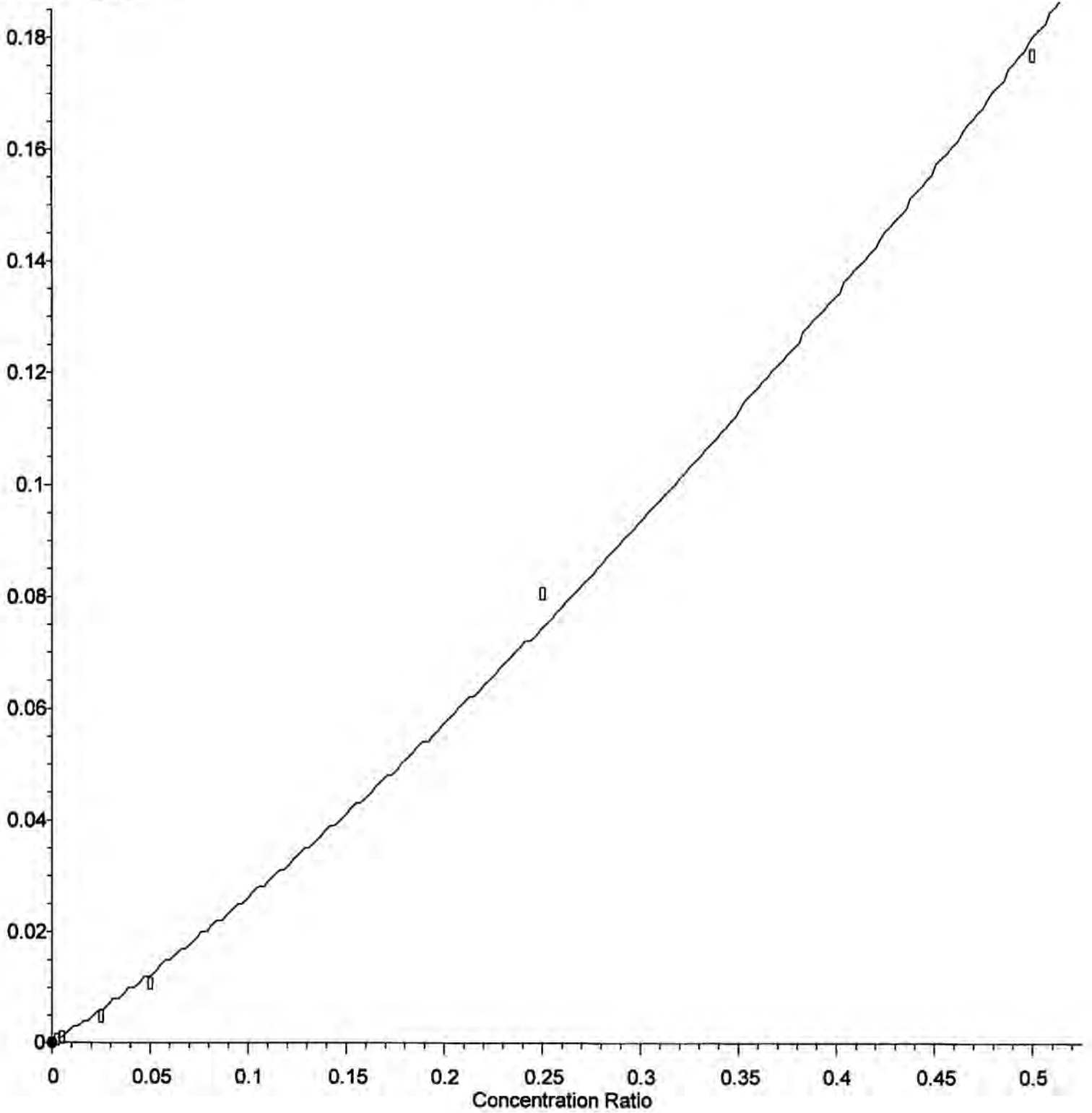
0.05=02601014.D 10 =02101009.D 5 =02201010.D 1 =02301011.D 0.5 =02401012.D 0.1 =02501013.D

Compound	0.05	10	5	1	0.5	0.1	Avg	%RSD
-----ISTD-----								
1) I Acenaphthene-d10								
2) Atrazine	0.236	0.353	0.322	0.215	0.196	0.195	0.253	26.89
3) Metolachlor	0.733	1.030	0.958	0.704	0.650	0.677	0.792	20.25
4) Chlorpyrifos	0.138	0.193	0.180	0.137	0.141	0.138	0.154	16.28
-----ISTD-----								
5) I Chrysene-d12								
6) S Terphenyl-d14	1.175	1.332	1.318	1.159	1.249	1.354	1.265	6.61
7) Permerthins	2.281	0.784	0.671	0.485	0.421	0.403	0.841	85.76

(#) = Out of Range

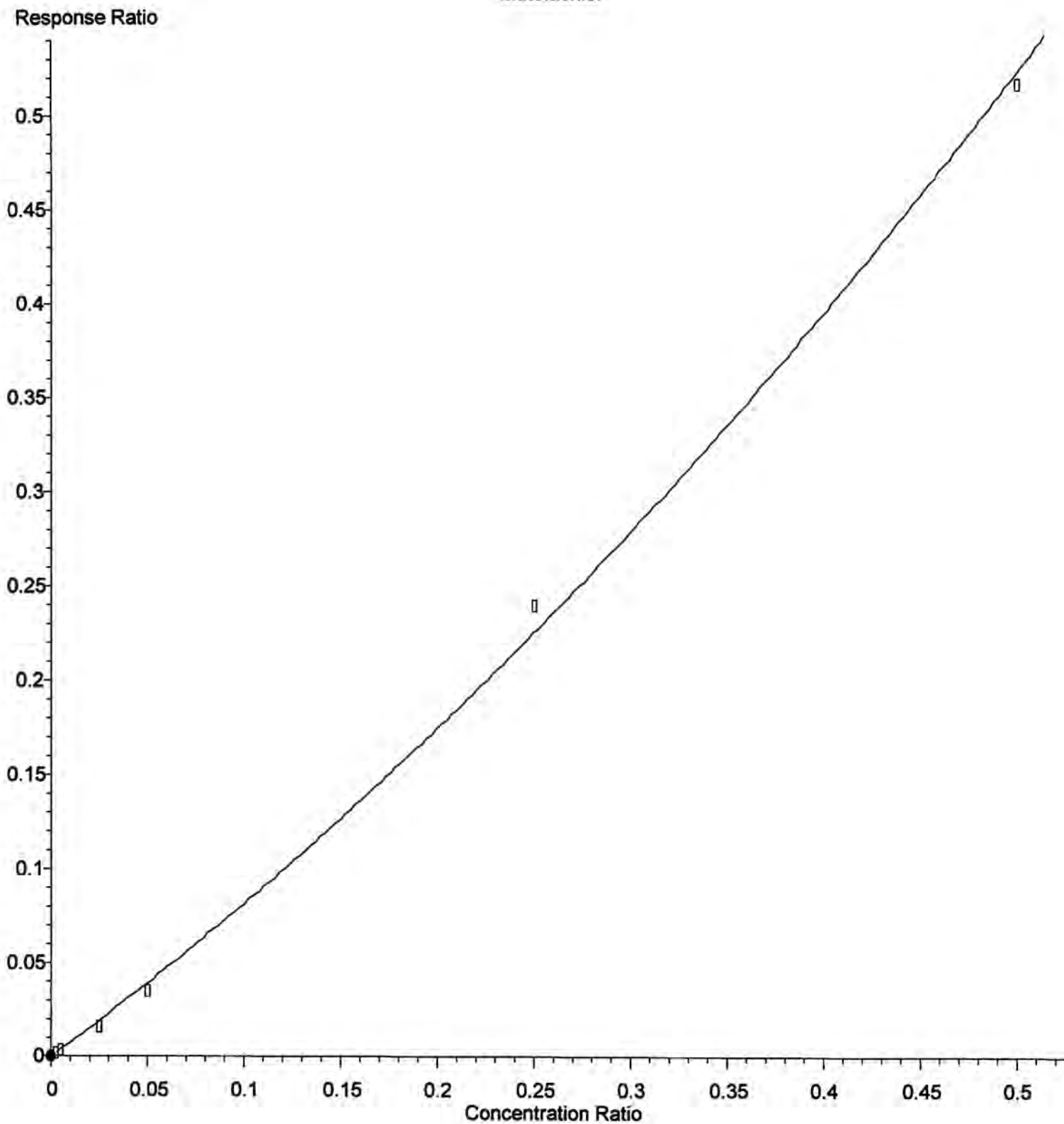
Atrazine

Response Ratio



$R = 2.40e-001 A^*A + 2.38e-001 A + 0.00e+000$
Coef of Det (r^2) = 0.997 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
Calibration Table Last Updated: Thu Jan 16 08:57:49 2025

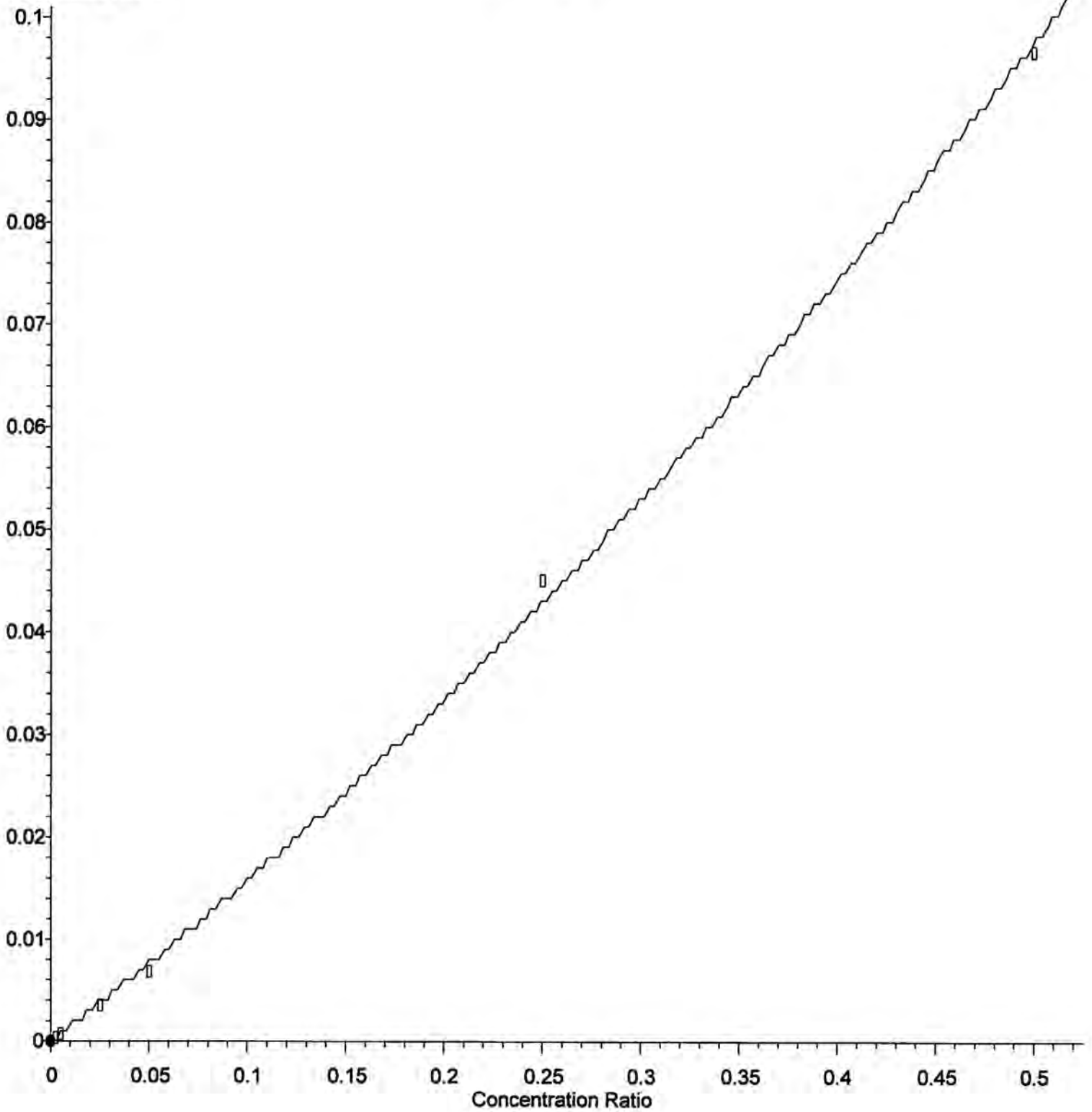
Metolachlor



R = 5.68e-001 A*A + 7.59e-001 A + 0.00e+000
Coef of Det (r^2) = 0.998 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
Calibration Table Last Updated: Thu Jan 16 08:57:49 2025

Chlorpyrifos

Response Ratio



$R = 9.24e-002 A^A + 1.49e-001 A + 0.00e+000$
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
Calibration Table Last Updated: Thu Jan 16 08:57:49 2025

PREPARATION BENCH SHEET

Organics

BEL0665

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses

SVOC 625 MISC

Spiking Solution(s)

2500042 Cardno Spk 100

Surrogate Solution(s)

2400924 CLP Acid Surr 2000
2403403 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	BEL0665-BLK1	Blank			12/15/24 13:40 MAH	1000	1		25	
QC	BEL0665-BS1	LCS			12/15/24 13:40 MAH	1000	1	100	25	
QC	BEL0665-MS1	Matrix Spike [WEL0554-06]			12/15/24 13:40 MAH	1000	1	100	25	
QC	BEL0665-MSD1	Matrix Spike Dup [WEL0554-06]			12/15/24 13:40 MAH	1000	1	100	25	
SVOC 625 MISC	WEL0554-03	D-7	12/24/2024	12/16/2024	12/15/24 13:40 MAH	1023	1		25	
SVOC 625 MISC	WEL0554-04	D-8	12/24/2024	12/16/2024	12/15/24 13:40 MAH	1016	1		25	
SVOC 625 MISC	WEL0554-05	E-2	12/24/2024	12/16/2024	12/15/24 13:40 MAH	1051	1		25	
SVOC 625 MISC	WEL0554-06	E-1	12/24/2024	12/16/2024	12/15/24 13:40 MAH	1060	1		25	
SVOC 625 MISC	WEL0554-07	E-1 DUP	12/24/2024	12/16/2024	12/15/24 13:40 MAH	1059	1		25	
SVOC 625 MISC	WEL0554-09	WW-3	12/24/2024	12/16/2024	12/15/24 13:40 MAH	1059	1		25	

Reagents

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2303363	Sulfuric Acid	80621
2400200	CLP I.S. Spike 2000	061422
2401071	Dichloromethane	64047

Batch Comments:

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

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Analyst: _____ Date: _____ Run Date: 1-15-25 Date: _____

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 00101001.D
 Acq On : 15 Jan 2025 11:34 am
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : T:\Data1\MSD4\METHODS\2025\BNA-0114.M
 Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Wed Jan 15 09:07:21 2025

AutoFind: Scans 1925, 1926, 1927; Background Corrected with Scan 1910

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.3	284328	PASS
68	69	0.00	2	0.9	2651	PASS
70	69	0.00	2	0.5	1501	PASS
127	198	10	80	50.8	409621	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	806059	PASS
199	198	5	9	6.6	53443	PASS
275	198	10	60	30.4	244920	PASS
365	198	1	100	4.9	39173	PASS
441	443	0.01	150	76.4	136843	PASS
442	198	30	200	115.7	932373	PASS
443	442	15	24	19.2	179069	PASS

BNA-0114.M Thu Jan 16 09:11:50 2025

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 00101001.D
 Acq On : 15 Jan 2025 11:34 am
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: autoint1.e
 Integrator: ChemStation

Method : T:\Data1\MSD4\METHODS\2025\BNA-0114.M
 Title : EPA 8270D / EPA 625.1 - MSD4

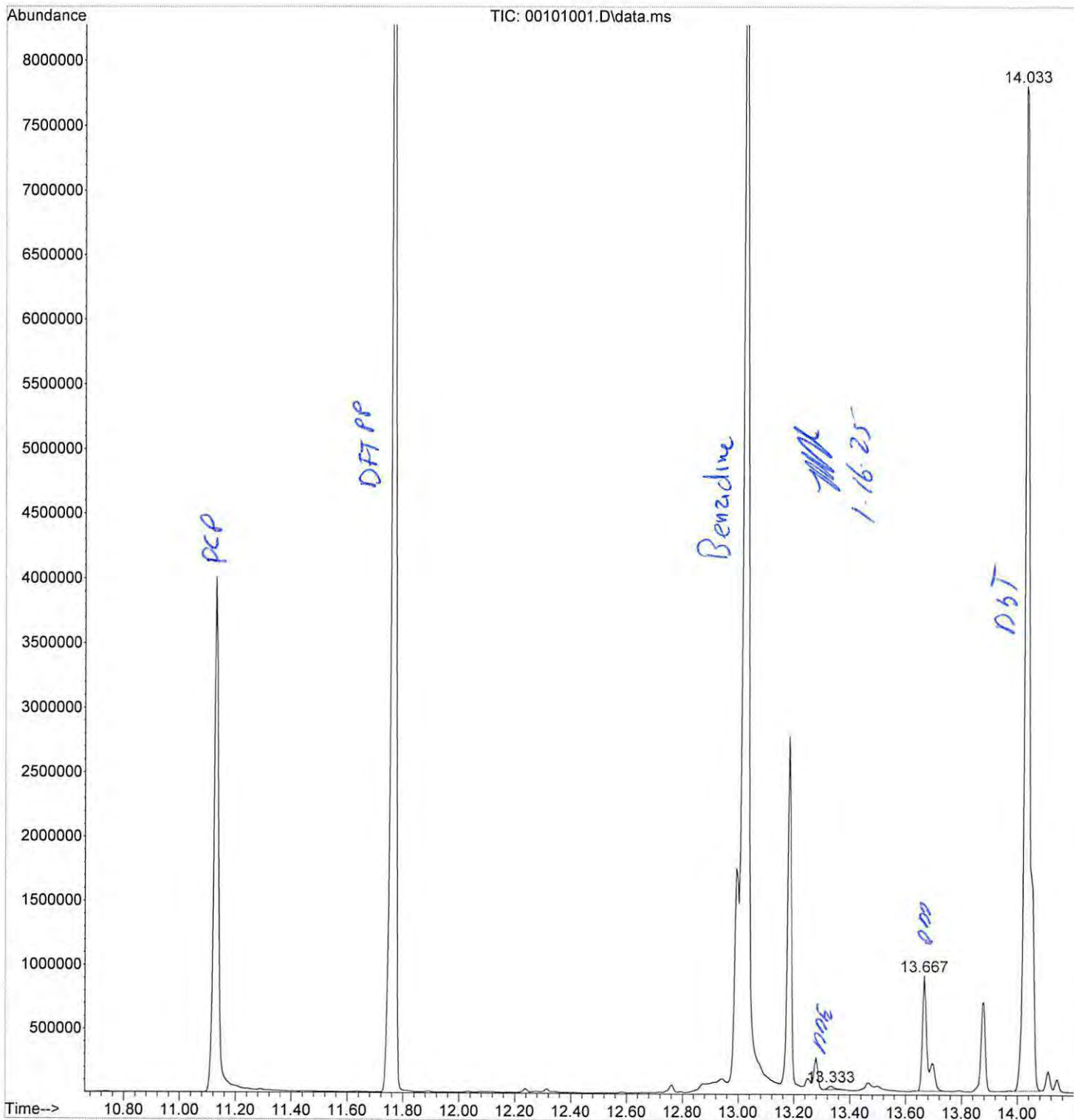
Signal : TIC: 00101001.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total	
1	13.333	2259	2265	2273	M5	26670	411297	0.42%	0.375%	DDE
2	13.667	2331	2337	2352	M	900081	11528886	11.78%	10.502%	DDD
3	14.033	2405	2416	2428	M	8089187	97834085	100.00%	89.123%	DDT

Sum of corrected areas: 109774267

BNA-0114.M Thu Jan 16 09:13:56 2025

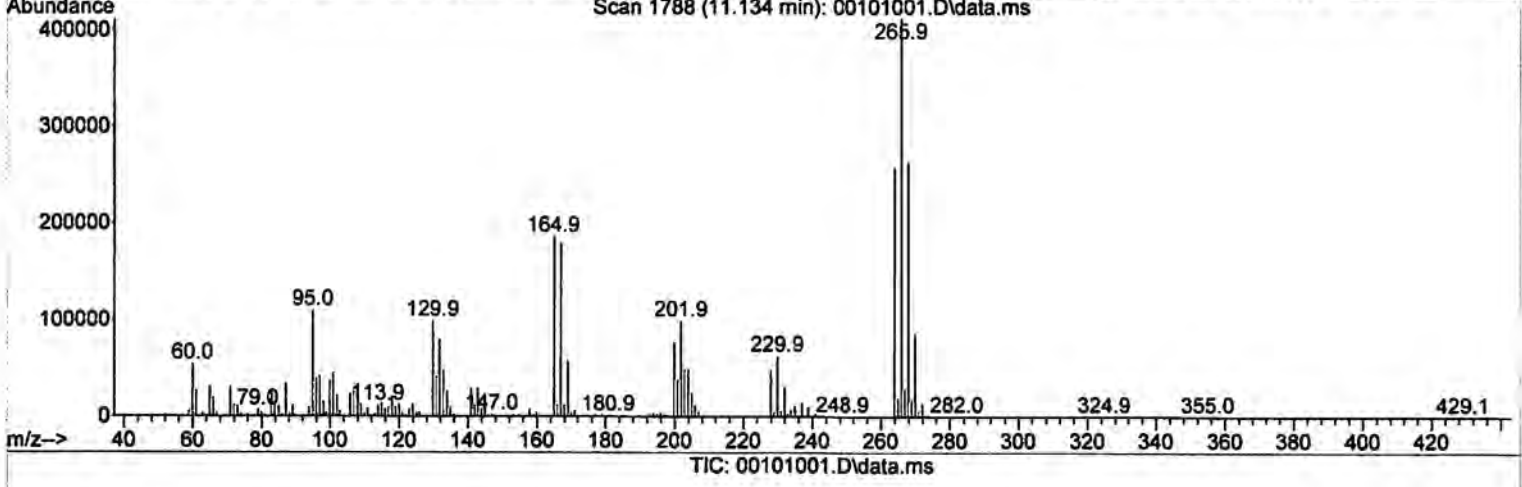
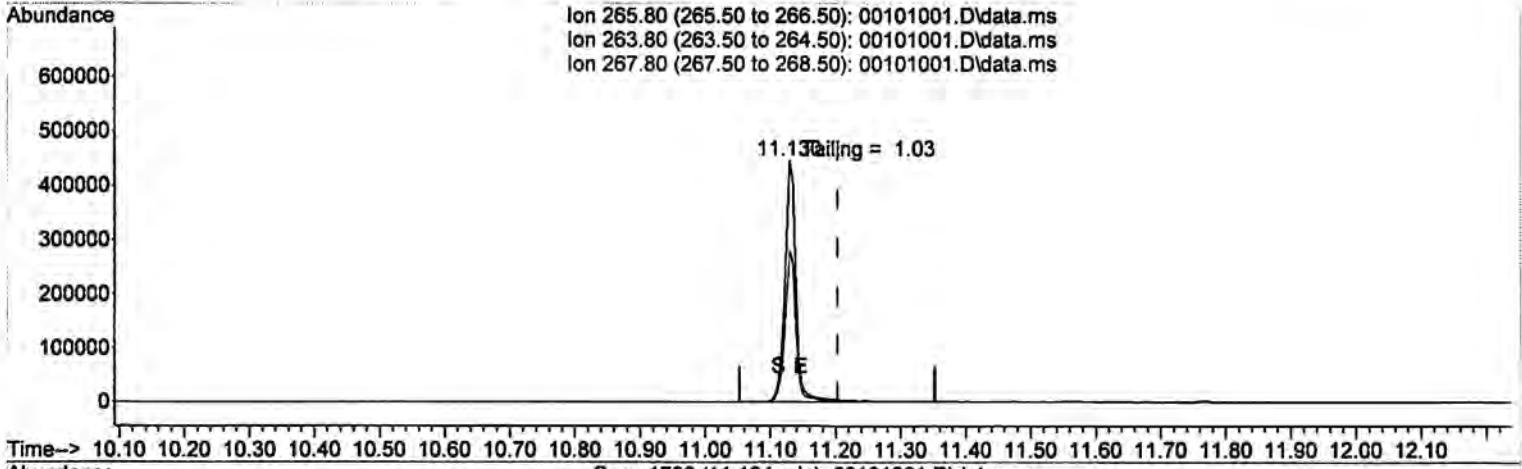
File :T:\Data1\MSD4\2025JAN\15DC\00101001.D
Operator : MAH
Acquired : 15 Jan 2025 11:34 am using AcqMethod SVOCT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 1



Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 00101001.D
 Acq On : 15 Jan 2025 11:34 am
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 16 09:12:23 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\BNA-0114.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 QLast Update : Wed Jan 15 09:07:21 2025
 Response via : Initial Calibration



(68) Pentachlorophenol

11.133min (-0.070) 0.00 ug/mL

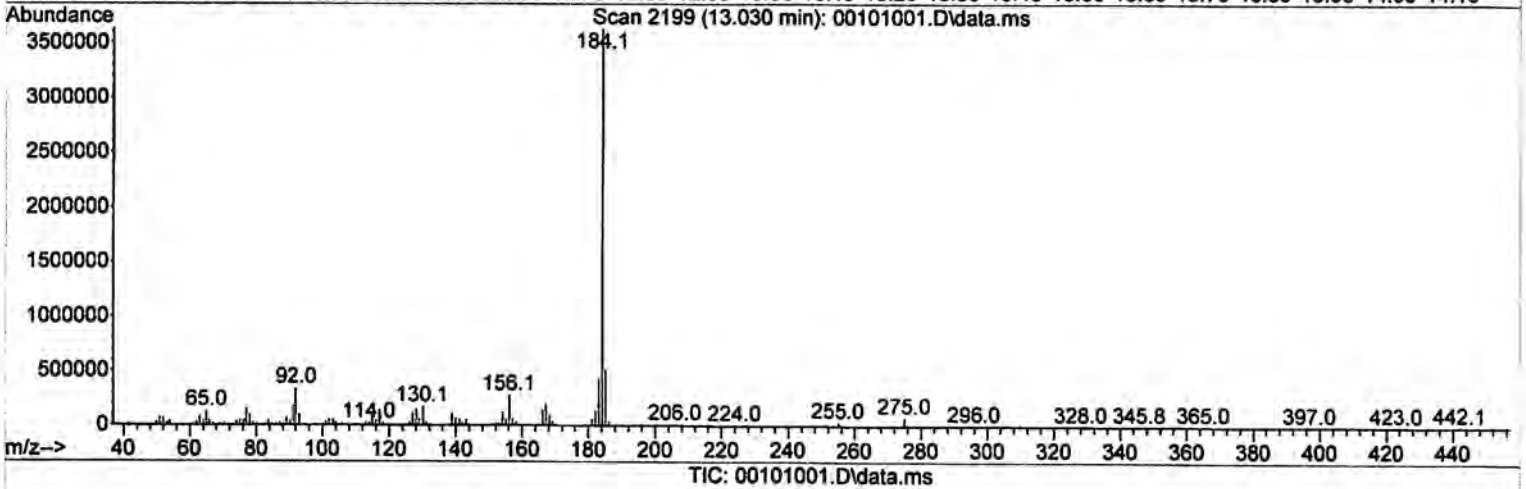
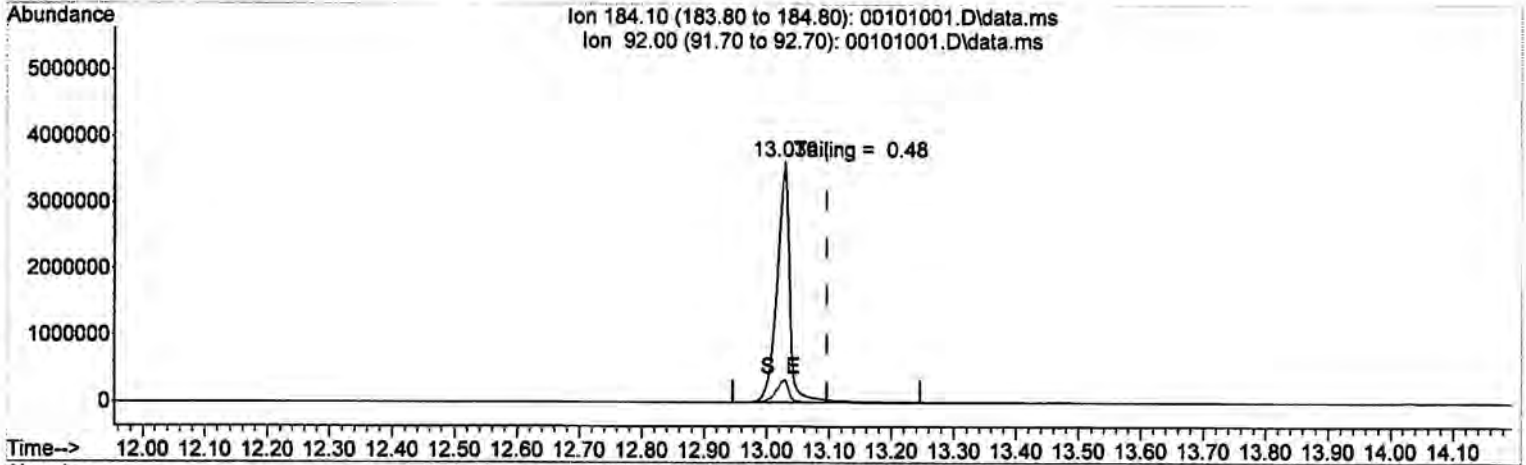
response 5151081

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	62.60	62.82
267.80	63.30	63.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 00101001.D
 Acq On : 15 Jan 2025 11:34 am
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 16 09:12:23 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\BNA-0114.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 QLast Update : Wed Jan 15 09:07:21 2025
 Response via : Initial Calibration



(74) Benzidine

13.030min (-0.066) 0.00 ug/mL

response 50481517

Ion	Exp%	Act%
184.10	100.00	100.00
92.00	8.80	9.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02101009.D
 Acq On : 15 Jan 2025 3:02 pm
 Operator : MAH
 Sample : CARDNO 10 PPM
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 16 09:21:11 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.551	164	30932649	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.574	240	18263992	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.328	244	30419806	26.34	ug/mL	0.00
Spiked Amount	25.000		Recovery	= 105.36%		
Target Compounds						
						Qvalue
2) Atrazine	11.061	200	5457245	9.89	ug/mL	100
3) Metolachlor	12.234	162	15928131	9.90	ug/mL	98
4) Chlorpyrifos	12.245	197	2982955	9.92	ug/mL	97
7) Permerthins	15.402	183	7066467m	9.85	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02201010.D
 Acq On : 15 Jan 2025 3:32 pm
 Operator : MAH
 Sample : CARDNO 5 PPM
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 16 09:21:41 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.551	164	38345734	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.575	240	22696828	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.328	244	37406696	26.07	ug/mL	0.00
Spiked Amount	25.000		Recovery	= 104.28%		
Target Compounds						
						Qvalue
2) Atrazine	11.057	200	3086799	5.33	ug/mL	99
3) Metolachlor	12.233	162	9186066	5.27	ug/mL	98
4) Chlorpyrifos	12.244	197	1726255	5.21	ug/mL	97
7) Permethins	15.402	183	3819510m	5.19	ug/mL	

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

Quantitation Report (Not Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02301011.D
 Acq On : 15 Jan 2025 4:00 pm
 Operator : MAH
 Sample : CARDNO 1 PPM
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 16 09:22:11 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.551	164	33597395	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.574	240	20220123	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.327	244	29283145	22.90	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	91.60%	
Target Compounds						
						Qvalue
2) Atrazine	11.055	200	360915	0.86	ug/mL	99
3) Metolachlor	12.233	162	1134558	0.86	ug/mL	96
4) Chlorpyrifos	12.244	197	217700	0.85	ug/mL	97
7) Permerthins	15.404	183	341185	0.66	ug/mL	97

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02301011.D
 Acq On : 15 Jan 2025 4:00 pm
 Operator : MAH
 Sample : CARDNO 1 PPM
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 16 09:22:25 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.551	164	33597395	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.574	240	20220123	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.327	244	29283145	22.90	ug/mL	0.00
Spiked Amount	25.000		Recovery =	91.60%		
Target Compounds						
						Qvalue
2) Atrazine	11.055	200	360915	0.86	ug/mL	99
3) Metolachlor	12.233	162	1134558	0.86	ug/mL	96
4) Chlorpyrifos	12.240	197	228430m	0.89	ug/mL	
7) Permerthins	15.402	183	479068m	0.91	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02401012.D
 Acq On : 15 Jan 2025 4:30 pm
 Operator : MAH
 Sample : CARDNO 0.5 PPM
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 16 09:23:06 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.551	164	32493427	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.574	240	19784881	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.328	244	30884213	24.69	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	98.76%	
Target Compounds						
						Qvalue
2) Atrazine	11.051	200	175791m	0.44	ug/mL	
3) Metolachlor	12.230	162	564087m	0.45	ug/mL	
4) Chlorpyrifos	12.240	197	110112m	0.45	ug/mL	
7) Permerthins	15.402	183	205192m	0.41	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02501013.D
 Acq On : 15 Jan 2025 4:59 pm
 Operator : MAH
 Sample : CARDNO 0.1 PPM
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 16 09:23:46 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.549	164	27431202	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.573	240	15937876	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.327	244	26972926	26.77	ug/mL	0.00
Spiked Amount	25.000		Recovery	= 107.08%		
Target Compounds						
						Qvalue
2) Atrazine	11.051	200	26209m	0.08	ug/mL	
3) Metolachlor	12.233	162	89814	0.09	ug/mL	95
4) Chlorpyrifos	12.240	197	18945m	0.09	ug/mL	
7) Permerthins	15.402	183	32183m	0.08	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02601014.D
 Acq On : 15 Jan 2025 5:28 pm
 Operator : MAH
 Sample : CARDNO 0.05 PPM
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 16 09:24:38 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.551	164	39603205	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.575	240	25475568	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.328	244	37429667	23.24	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	92.96%	
Target Compounds						
						Qvalue
2) Atrazine	11.051	200	23731m	0.05	ug/mL	
3) Metolachlor	12.230	162	72837m	0.05	ug/mL	
4) Chlorpyrifos	12.240	197	14258m	0.05	ug/mL	
7) Permerthins	15.402	183	29142m	0.05	ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
Data File : 02701021.D
Acq On : 15 Jan 2025 8:36 pm
Operator : MAH
Sample : BEL0665-BLK1
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jan 16 08:58:18 2025
Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Jan 16 08:57:49 2025
Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.548	164	32296091	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.572	240	17234821	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.326	244	26578938	24.39	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	97.56%	
Target Compounds						
						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2025\JAN\15DC\
 Data File : 02801022.D
 Acq On : 15 Jan 2025 9:04 pm
 Operator : MAH
 Sample : WEL0554-07
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jan 16 08:58:43 2025
 Quant Method : T:\Data1\MSD4\METHODS\2025\Cardo-011525.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Jan 16 08:57:49 2025
 Response via : Initial Calibration

Compound	R.T.	Qlon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	9.548	164	32065379	20.00	ug/mL	# 0.00
5) Chrysene-d12	14.573	240	21708882	20.00	ug/mL	0.00
System Monitoring Compounds						
6) Terphenyl-d14	13.327	244	32068617	23.36	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	93.44%	

Target Compounds Qvalue

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