

Cover Page

Order ID : P5194

Project ID : 1454 to 1460 Haddon Avenue, Camden, NJ

Client : JPCL Engineering

Lab Sample Number

P5194-01
P5194-02
P5194-03
P5194-04
P5194-05
P5194-06

Client Sample Number

UST-1
UST-2
WP-1
WP-2
WP-3
WP-4

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 12/12/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5194

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SHREENA PATEL

Date: 12/12/2024

LAB CHRONICLE

OrderID: P5194	OrderDate: 12/6/2024 3:08:24 PM
Client: JPCL Engineering	Project: 1454 to 1460 Haddon Avenue, Camden, NJ
Contact: Paul Rotondi	Location: L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5194-01	UST-1	SOIL			12/05/24			12/06/24
			Diesel Range Organics	8015D		12/11/24	12/11/24	
			EPH	NJEPH		12/11/24	12/11/24	
P5194-02	UST-2	SOIL			12/05/24			12/06/24
			Diesel Range Organics	8015D		12/11/24	12/11/24	
			EPH	NJEPH		12/11/24	12/12/24	



QC SUMMARY

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: JPCL Engineering
Lab Code: CHEM Case No.: P5194 SAS No.: P5194 SDG No.: P5194

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG014962.D	94				0
PIBLK-FG014969.D	88				0
PIBLK-FG014975.D	87				0
UST-1	29 *				1
UST-2	69				0
UST-2MS	44				0
UST-2MSD	44				0
PB165556BL	82				0
PB165556BS	84				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130

For Soil : 37-130

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted Out

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** JPCL Engineering
Lab Code: CHEM **Cas No:** P5194 **SAS No :** P5194 **SDG No:** P5194
Client SampleID : UST-2MS **Datafile:** FG014973.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7293	135000	212000	1056%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** JPCL Engineering
Lab Code: CHEM **Cas No:** P5194 **SAS No :** P5194 **SDG No:** P5194
Client SampleID : UST-2MSD **Datafile:** FG014974.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7288	135000	234000	1358%	*	68-131

MS/MSD % Recovery RPD : 25

SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Chemtech **Client:** JPCL Engineering
Lab Code: CHEM **Cas No:** P5194 **SAS No :** P5194 **SDG No:** P5194
Matrix Spike - EPA Sample No : PB165556BS **Datafile:** FG014972.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6660	0	5547	83	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165556BL

Lab Name: CHEMTECH

Contract: JPCL01

Lab Code: CHEM Case No.: P5194

SAS No.: P5194 SDG NO.: P5194

Lab File ID: FG014971.D

Lab Sample ID: PB165556BL

Instrument ID: FG

Date Extracted: 12/11/2024

Matrix: (soil/water) Soil

Date Analyzed: 12/11/24

Level: (low/med) low

Time Analyzed: 15:15

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
UST-1	P5194-01	FG014965.D	12/11/24
UST-2	P5194-02	FG014966.D	12/11/24
PB165556BS	PB165556BS	FG014972.D	12/11/24
UST-2MS	P5194-02MS	FG014973.D	12/11/24
UST-2MSD	P5194-02MSD	FG014974.D	12/11/24

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	JPCL Engineering	Date Collected:	12/05/24
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	12/06/24
Client Sample ID:	UST-1	SDG No.:	P5194
Lab Sample ID:	P5194-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014965.D	10	12/11/24 09:15	12/11/24 12:22	PB165556

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	125000		2090	18900	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.58	*	37 - 130	29%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014965.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 12:22
Operator : YP\AJ
Sample : P5194-01 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
UST-1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
Quant Time: Dec 11 23:16:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.041	66847	0.579 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014965.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 12:22
Operator : YP\AJ
Sample : P5194-01 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

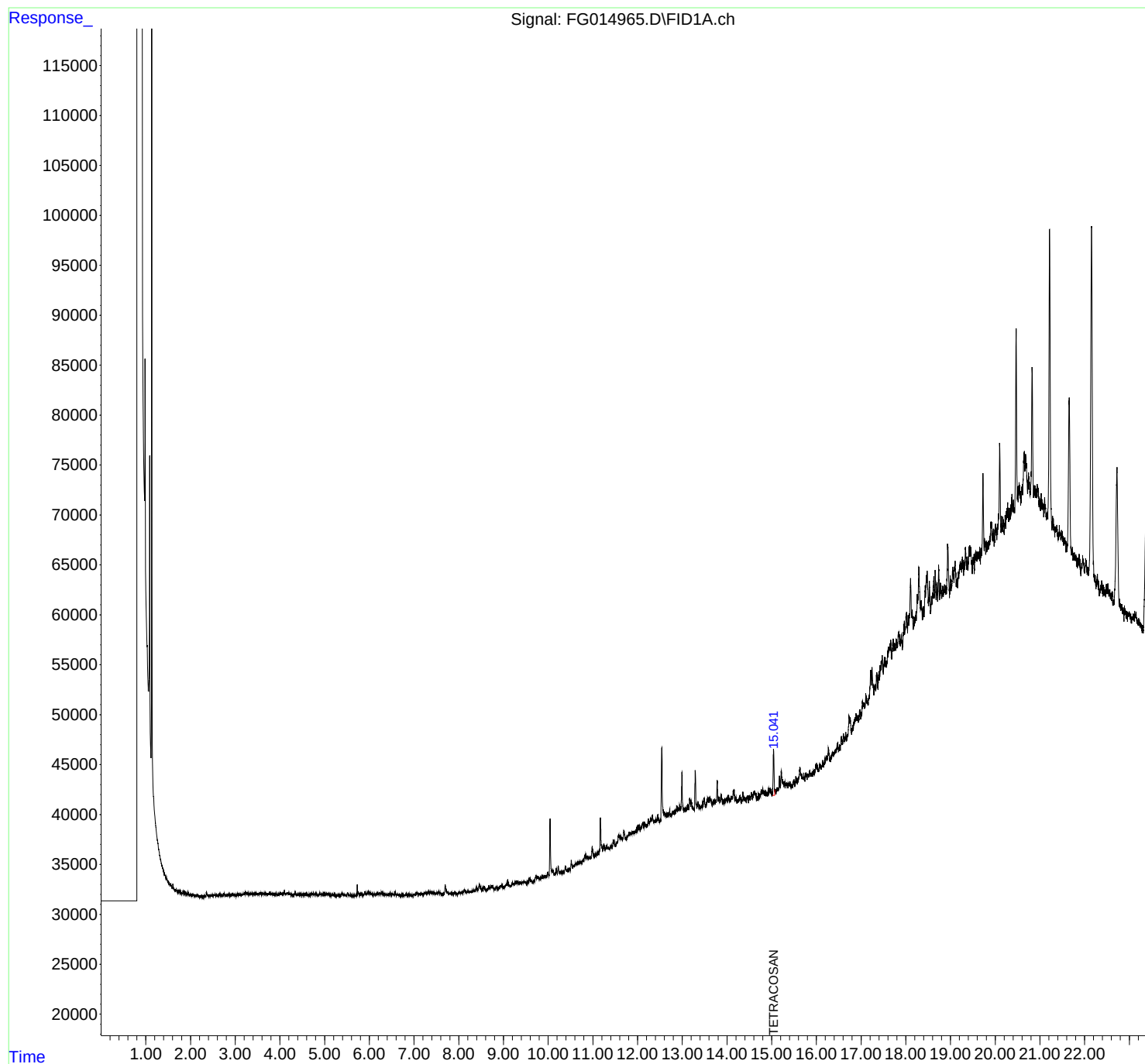
Instrument :
FID_G
ClientSampleId :
UST-1

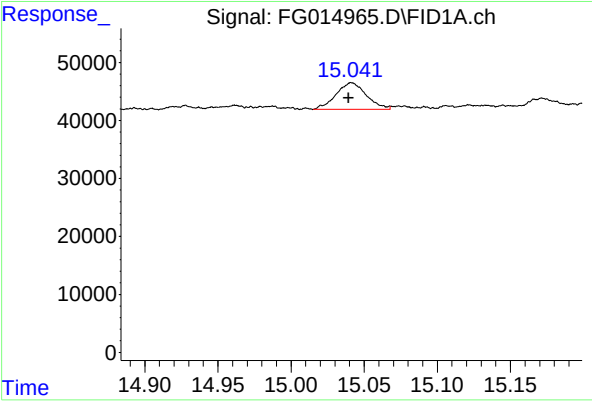
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
Quant Time: Dec 11 23:16:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.041 min
Delta R.T.: 0.001 min
Response: 66847
Conc: 0.58 ug/ml

Instrument :
FID_G
ClientSampleId :
UST-1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Instrument :

FID_G

ClientSampleId :

UST-1

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG12112
Data File : FG014965.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 12:22
Sample : P5194-01 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.429	4.400	4.448	BH	148	2396	0.17%	0.006%
2	4.452	4.448	4.462	HH	126	657	0.05%	0.002%
3	4.475	4.462	4.500	HH	111	1441	0.10%	0.003%
4	4.517	4.500	4.524	HH	178	1297	0.09%	0.003%
5	4.525	4.524	4.541	HH	117	764	0.05%	0.002%
6	4.547	4.541	4.552	HH	119	345	0.02%	0.001%
7	4.569	4.552	4.580	HH	197	1797	0.13%	0.004%
8	4.585	4.580	4.590	HH	131	474	0.03%	0.001%
9	4.601	4.590	4.649	HH	173	3091	0.22%	0.007%
10	4.654	4.649	4.667	HH	124	732	0.05%	0.002%
11	4.694	4.667	4.710	PH	195	2704	0.19%	0.006%
12	4.715	4.710	4.724	HH	137	951	0.07%	0.002%
13	4.729	4.724	4.748	HH	182	2138	0.15%	0.005%
14	4.758	4.748	4.771	HH	123	1430	0.10%	0.003%
15	4.797	4.771	4.847	HH	248	4980	0.35%	0.011%
16	4.886	4.847	4.905	PH	269	3998	0.28%	0.009%
17	4.907	4.905	4.920	HH	132	837	0.06%	0.002%
18	4.939	4.920	4.944	HH	189	1460	0.10%	0.003%
19	4.957	4.944	4.965	HH	175	1733	0.12%	0.004%
20	4.971	4.965	4.982	HH	193	1281	0.09%	0.003%
21	4.992	4.982	5.000	HH	179	1322	0.09%	0.003%
22	5.010	5.000	5.021	HH	181	1644	0.12%	0.004%
23	5.024	5.021	5.040	HH	141	1486	0.10%	0.003%
24	5.043	5.040	5.048	HH	166	710	0.05%	0.002%
25	5.061	5.048	5.074	HH	186	2565	0.18%	0.006%
26	5.078	5.074	5.095	HH	141	1237	0.09%	0.003%
27	5.100	5.095	5.117	HH	146	673	0.05%	0.002%
28	5.122	5.117	5.129	PH	91	183	0.01%	0.000%
29	5.132	5.129	5.136	PH	83	182	0.01%	0.000%
30	5.142	5.136	5.156	PH	61	292	0.02%	0.001%
31	5.159	5.156	5.180	PH	49	382	0.03%	0.001%
32	5.189	5.180	5.208	PH	103	903	0.06%	0.002%
33	5.214	5.208	5.233	PH	93	390	0.03%	0.001%
34	5.235	5.233	5.240	PH	33	13	0.00%	0.000%
35	5.242	5.240	5.250	PH	17	-37	-0.00%	-0.000%
36	5.256	5.250	5.271	PH	51	47	0.00%	0.000%

					retention			
37	5.282	5.271	5.287	PH	51	73	0.01%	0.000%
38	5.291	5.287	5.307	PH	36	-31	-0.01%	-0.000%
39	5.314	5.307	5.324	PH	24	131	0.01%	0.000%
40	5.335	5.324	5.355	PH	91	-58	-0.01%	-0.000%
41	5.392	5.355	5.438	PH	283	4595	0.01%	0.000%
42	5.445	5.438	5.471	PH	69	611	0.01%	0.000%
43	5.474	5.471	5.477	PH	34	93	0.01%	0.000%
44	5.483	5.477	5.496	PH	73	361	0.03%	0.001%
45	5.513	5.496	5.531	PH	323	3082	0.22%	0.007%
46	5.549	5.531	5.569	PH	90	591	0.04%	0.001%
47	5.575	5.569	5.590	PH	107	655	0.05%	0.002%
48	5.594	5.590	5.598	PH	-5	5	0.00%	0.000%
49	5.604	5.598	5.620	PH	75	-98	-0.01%	-0.000%
50	5.625	5.620	5.631	PH	9	-227	-0.02%	-0.001%
51	5.643	5.631	5.646	PH	15	-218	-0.02%	-0.001%
52	5.658	5.646	5.664	PH	16	-135	-0.01%	-0.000%
53	5.667	5.664	5.686	PH	53	-334	-0.02%	-0.001%
54	5.711	5.686	5.717	PH	77	297	0.02%	0.001%
55	5.730	5.717	5.735	PH	931	953	0.07%	0.002%
56	5.750	5.735	5.787	PH	379	4366	0.31%	0.010%
57	5.821	5.787	5.849	PH	185	3677	0.26%	0.008%
58	5.901	5.849	5.932	HH	394	7982	0.56%	0.018%
59	5.962	5.932	5.968	HH	321	4633	0.33%	0.011%
60	5.972	5.968	5.995	HH	358	4640	0.33%	0.011%
61	5.999	5.995	6.009	HH	278	1956	0.14%	0.004%
62	6.020	6.009	6.075	HH	294	6558	0.46%	0.015%
63	6.081	6.075	6.092	HH	191	1336	0.09%	0.003%
64	6.117	6.092	6.138	HH	182	3675	0.26%	0.008%
65	6.143	6.138	6.155	HH	136	1116	0.08%	0.003%
66	6.157	6.155	6.161	HH	150	474	0.03%	0.001%
67	6.166	6.161	6.176	HH	157	1099	0.08%	0.003%
68	6.198	6.176	6.215	HH	218	3261	0.23%	0.007%
69	6.236	6.215	6.252	HH	298	4387	0.31%	0.010%
70	6.255	6.252	6.259	HH	171	729	0.05%	0.002%
71	6.276	6.259	6.327	HH	386	8484	0.60%	0.019%
72	6.334	6.327	6.358	HH	224	2122	0.15%	0.005%
73	6.383	6.358	6.394	HH	153	1821	0.13%	0.004%
74	6.396	6.394	6.407	HH	132	761	0.05%	0.002%
75	6.429	6.407	6.441	HH	142	2061	0.15%	0.005%
76	6.463	6.441	6.490	HH	274	4385	0.31%	0.010%
77	6.520	6.490	6.529	HH	196	3071	0.22%	0.007%
78	6.533	6.529	6.536	HH	165	618	0.04%	0.001%
79	6.539	6.536	6.554	HH	176	968	0.07%	0.002%
80	6.579	6.554	6.607	HH	416	5476	0.39%	0.013%
81	6.611	6.607	6.627	HH	110	974	0.07%	0.002%
82	6.631	6.627	6.637	HH	127	487	0.03%	0.001%
83	6.641	6.637	6.674	HH	129	765	0.05%	0.002%
84	6.691	6.674	6.698	PH	46	290	0.02%	0.001%
85	6.702	6.698	6.717	HH	56	75	0.01%	0.000%
86	6.736	6.717	6.767	PH	124	965	0.07%	0.002%
87	6.772	6.767	6.781	PH	43	234	0.02%	0.001%
88	6.791	6.781	6.802	PH	74	398	0.03%	0.001%
89	6.823	6.802	6.853	PH	193	2492	0.18%	0.006%

Instrument :

FID_G

ClientSampleId :

UST-1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

90	6.884	6.853	6.908	PH	155	2015	0.14%	0.005%
91	6.915	6.908	6.964	PH	60	196		
92	6.997	6.964	7.020	PH	145	2321		
93	7.025	7.020	7.031	HH	175	852		
94	7.059	7.031	7.081	HH	277	5462		
95	7.093	7.081	7.158	HH	198	6671		
96	7.179	7.158	7.202	HH	218	3429	0.24%	0.008%
97	7.227	7.202	7.241	HH	249	3853	0.27%	0.009%
98	7.276	7.241	7.285	HH	307	6221	0.44%	0.014%
99	7.323	7.285	7.359	HH	386	13163	0.93%	0.030%
100	7.371	7.359	7.409	HH	398	8283	0.58%	0.019%
101	7.425	7.409	7.451	HH	303	6021	0.43%	0.014%
102	7.457	7.451	7.467	HH	258	2351	0.17%	0.005%
103	7.475	7.467	7.494	HH	227	3405	0.24%	0.008%
104	7.510	7.494	7.532	HH	311	5051	0.36%	0.012%
105	7.555	7.532	7.576	HH	380	6629	0.47%	0.015%
106	7.582	7.576	7.615	HH	272	4712	0.33%	0.011%
107	7.634	7.615	7.651	HH	210	3518	0.25%	0.008%
108	7.698	7.651	7.744	HH	1089	23904	1.69%	0.055%
109	7.751	7.744	7.786	HH	323	5542	0.39%	0.013%
110	7.796	7.786	7.832	HH	213	5192	0.37%	0.012%
111	7.870	7.832	7.906	HH	282	8771	0.62%	0.020%
112	7.918	7.906	7.962	HH	239	5994	0.42%	0.014%
113	8.005	7.962	8.021	HH	298	8135	0.57%	0.019%
114	8.037	8.021	8.046	HH	318	4207	0.30%	0.010%
115	8.070	8.046	8.089	HH	341	7598	0.54%	0.017%
116	8.126	8.089	8.179	HH	579	21859	1.54%	0.050%
117	8.185	8.179	8.196	HH	393	3339	0.24%	0.008%
118	8.210	8.196	8.236	HH	401	8486	0.60%	0.020%
119	8.246	8.236	8.279	HH	413	9351	0.66%	0.021%
120	8.300	8.279	8.309	HH	440	6821	0.48%	0.016%
121	8.338	8.309	8.354	HH	520	12875	0.91%	0.030%
122	8.390	8.354	8.424	HH	855	25224	1.78%	0.058%
123	8.460	8.424	8.515	HH	1143	42089	2.97%	0.097%
124	8.571	8.515	8.635	HH	887	47236	3.33%	0.109%
125	8.644	8.635	8.651	HH	661	5740	0.41%	0.013%
126	8.674	8.651	8.702	HH	988	24113	1.70%	0.055%
127	8.737	8.702	8.751	HH	960	25725	1.82%	0.059%
128	8.764	8.751	8.808	HH	1011	26027	1.84%	0.060%
129	8.849	8.808	8.872	HH	870	28676	2.02%	0.066%
130	8.937	8.872	8.952	HH	1047	38353	2.71%	0.088%
131	8.968	8.952	8.984	HH	1139	18684	1.32%	0.043%
132	8.997	8.984	9.023	HH	952	20334	1.44%	0.047%
133	9.096	9.023	9.164	HH	1595	89765	6.34%	0.206%
134	9.200	9.164	9.217	HH	1325	35691	2.52%	0.082%
135	9.222	9.217	9.239	HH	1245	14811	1.05%	0.034%
136	9.272	9.239	9.301	HH	1356	46606	3.29%	0.107%
137	9.313	9.301	9.349	HH	1452	37825	2.67%	0.087%
138	9.365	9.349	9.386	HH	1313	27816	1.96%	0.064%
139	9.393	9.386	9.411	HH	1314	18692	1.32%	0.043%
140	9.427	9.411	9.436	HH	1354	18968	1.34%	0.044%
141	9.473	9.436	9.512	HH	1420	60110	4.24%	0.138%

Instrument :

FID_G

ClientSampleId :

UST-1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

					rters			
142	9.540	9.512	9.556	HH	1408	34437	2.43%	0.079%
143	9.588	9.556	9.614	HH	1723	54027		
144	9.625	9.614	9.654	HH	1509	33515		
145	9.726	9.654	9.750	HH	2002	93331		
146	9.768	9.750	9.781	HH	1927	32960		
147	9.787	9.781	9.805	HH	1841	25282		
148	9.812	9.805	9.824	HH	1718	19445	1.37%	0.045%
149	9.837	9.824	9.854	HH	1766	31326	2.21%	0.072%
150	9.872	9.854	9.889	HH	1995	39483	2.79%	0.091%
151	9.995	9.889	10.017	HH	2348	151887	10.72%	0.349%
152	10.045	10.017	10.098	HH	7690	173974	12.28%	0.400%
153	10.116	10.098	10.152	HH	2498	74026	5.23%	0.170%
154	10.181	10.152	10.202	HH	2632	70957	5.01%	0.163%
155	10.227	10.202	10.246	HH	2859	66278	4.68%	0.152%
156	10.253	10.246	10.261	HH	2367	20894	1.47%	0.048%
157	10.269	10.261	10.302	HH	2386	58005	4.09%	0.133%
158	10.313	10.302	10.322	HH	2311	27278	1.93%	0.063%
159	10.342	10.322	10.359	HH	2392	52039	3.67%	0.120%
160	10.388	10.359	10.429	HH	2937	109153	7.71%	0.251%
161	10.448	10.429	10.464	HH	2651	53760	3.79%	0.124%
162	10.482	10.464	10.497	HH	2735	51349	3.62%	0.118%
163	10.519	10.497	10.549	HH	3509	94430	6.67%	0.217%
164	10.611	10.549	10.631	HH	3227	147769	10.43%	0.340%
165	10.654	10.631	10.672	HH	3314	81004	5.72%	0.186%
166	10.693	10.672	10.701	HH	3327	56233	3.97%	0.129%
167	10.720	10.701	10.744	HH	3358	83542	5.90%	0.192%
168	10.788	10.744	10.802	HH	3564	120411	8.50%	0.277%
169	10.817	10.802	10.830	HH	4000	64007	4.52%	0.147%
170	10.845	10.830	10.863	HH	4080	74996	5.29%	0.172%
171	10.876	10.863	10.896	HH	3970	76610	5.41%	0.176%
172	10.919	10.896	10.943	HH	3800	106493	7.52%	0.245%
173	10.986	10.943	11.037	HH	4936	233974	16.52%	0.538%
174	11.054	11.037	11.074	HH	4159	89645	6.33%	0.206%
175	11.095	11.074	11.127	HH	4293	132483	9.35%	0.304%
176	11.170	11.127	11.226	HH	7759	307626	21.72%	0.707%
177	11.248	11.226	11.270	HH	5121	129021	9.11%	0.296%
178	11.303	11.270	11.331	HH	4998	175256	12.37%	0.403%
179	11.341	11.331	11.366	HH	4815	98658	6.96%	0.227%
180	11.463	11.366	11.504	HH	5539	416159	29.38%	0.956%
181	11.576	11.504	11.610	HH	6038	351464	24.81%	0.808%
182	11.627	11.610	11.662	HH	5914	181439	12.81%	0.417%
183	11.693	11.662	11.744	HH	6508	291683	20.59%	0.670%
184	11.825	11.744	11.852	HH	6389	392723	27.72%	0.902%
185	11.887	11.852	11.902	HH	6387	187718	13.25%	0.431%
186	11.908	11.902	11.916	HH	6403	50608	3.57%	0.116%
187	11.928	11.916	11.937	HH	6381	82321	5.81%	0.189%
188	11.976	11.937	11.992	HH	6759	213532	15.07%	0.491%
189	12.006	11.992	12.020	HH	7039	111912	7.90%	0.257%
190	12.034	12.020	12.059	HH	6988	157480	11.12%	0.362%
191	12.120	12.059	12.139	HH	7300	334350	23.60%	0.768%
192	12.155	12.139	12.202	HH	7343	268290	18.94%	0.617%
193	12.247	12.202	12.267	HH	7693	281787	19.89%	0.648%
194	12.304	12.267	12.315	HH	7688	214765	15.16%	0.494%

Instrument :

FID_G

ClientSampleId :

UST-1

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 12/12/2024

					Instrument : FID_G		
					ClientSampleId : UST-1		
195	12.333	12.315	12.372	HH	8053	260096	18.36% 0.598%
196	12.394	12.372	12.406	HH	7563	151138	10.93% 0.356%
197	12.413	12.406	12.434	HH	7555	127487	9.81% 0.319%
198	12.452	12.434	12.499	HH	7958	295911	20.65% 0.672%
199	12.542	12.499	12.587	HH	14786	504790	35.24% 1.147%
200	12.605	12.587	12.623	HH	8336	176097	12.78% 0.417%
201	12.633	12.623	12.656	HH	8176	159301	11.25% 0.366%
202	12.672	12.656	12.692	HH	8218	174949	12.35% 0.402%
203	12.719	12.692	12.749	HH	8616	279542	19.73% 0.642%
204	12.794	12.749	12.813	HH	8444	311920	22.02% 0.717%
205	12.828	12.813	12.842	HH	8472	149234	10.53% 0.343%
206	12.881	12.842	12.894	HH	8894	263336	18.59% 0.605%
207	12.905	12.894	12.923	HH	8753	154836	10.93% 0.356%
208	12.938	12.923	12.955	HH	9112	167895	11.85% 0.386%
209	12.993	12.955	13.036	HH	12321	461470	32.58% 1.060%
210	13.071	13.036	13.082	HH	8772	241632	17.06% 0.555%
211	13.105	13.082	13.112	HH	8950	155428	10.97% 0.357%
212	13.127	13.112	13.144	HH	9121	167294	11.81% 0.384%
213	13.167	13.144	13.192	HH	9758	267966	18.92% 0.616%
214	13.205	13.192	13.225	HH	9377	181564	12.82% 0.417%
215	13.236	13.225	13.257	HH	8894	166923	11.78% 0.384%
216	13.291	13.257	13.326	HH	12371	400025	28.24% 0.919%
217	13.348	13.326	13.374	HH	9330	262958	18.56% 0.604%
218	13.386	13.374	13.415	HH	9017	218393	15.42% 0.502%
219	13.438	13.415	13.447	HH	9014	172519	12.18% 0.396%
220	13.457	13.447	13.469	HH	9331	118117	8.34% 0.271%
221	13.491	13.469	13.522	HH	9731	292550	20.65% 0.672%
222	13.566	13.522	13.579	HH	9821	322752	22.78% 0.742%
223	13.598	13.579	13.608	HH	9733	168391	11.89% 0.387%
224	13.623	13.608	13.669	HH	9809	341916	24.14% 0.786%
225	13.722	13.669	13.737	HH	9676	381317	26.92% 0.876%
226	13.780	13.737	13.820	HH	11542	499165	35.24% 1.147%
227	13.826	13.820	13.839	HH	9735	107246	7.57% 0.246%
228	13.871	13.839	13.919	HH	10088	463633	32.73% 1.065%
229	13.928	13.919	13.942	HH	9495	131474	9.28% 0.302%
230	13.955	13.942	13.966	HH	9645	132487	9.35% 0.304%
231	13.990	13.966	14.012	HH	9675	263796	18.62% 0.606%
232	14.032	14.012	14.053	HH	9914	238210	16.82% 0.547%
233	14.062	14.053	14.075	HH	9618	129357	9.13% 0.297%
234	14.098	14.075	14.124	HH	9912	283330	20.00% 0.651%
235	14.146	14.124	14.182	HH	10510	357687	25.25% 0.822%
236	14.189	14.182	14.219	HH	9827	212295	14.99% 0.488%
237	14.228	14.219	14.239	HH	9527	112988	7.98% 0.260%
238	14.245	14.239	14.259	HH	9572	113649	8.02% 0.261%
239	14.294	14.259	14.327	HH	10073	396702	28.00% 0.912%
240	14.353	14.327	14.380	HH	10233	309680	21.86% 0.712%
241	14.388	14.380	14.405	HH	9867	145992	10.31% 0.335%
242	14.415	14.405	14.429	HH	9689	138982	9.81% 0.319%
243	14.462	14.429	14.480	HH	9859	298626	21.08% 0.686%
244	14.501	14.480	14.519	HH	10008	227951	16.09% 0.524%
245	14.547	14.519	14.569	HH	10306	294093	20.76% 0.676%
246	14.611	14.569	14.691	HH	10419	732919	51.74% 1.684%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

						Instrument : FID_G		
						ClientSampleId : MUST-1		
rteres								
247	14.708	14.691	14.722	HH	10240	189517	13.38%	0.436%
248	14.733	14.722	14.751	HH	10093	170401	12.71%	0.436%
249	14.770	14.751	14.780	HH	10560	182604	12.71%	0.436%
250	14.800	14.780	14.814	HH	10752	211018	14.91%	0.436%
						Manual IntegrationsAPPROVED		
251	14.822	14.814	14.849	HH	10456	216701	19.79%	0.319%
252	14.860	14.849	14.886	HH	10537	225608	19.79%	0.319%
253	14.893	14.886	14.909	HH	10283	138646	9.79%	0.319%
254	14.927	14.909	14.940	HH	10734	197214	13.92%	0.453%
255	14.962	14.940	14.974	HH	10737	211189	14.91%	0.485%
256	14.985	14.974	15.016	HH	10519	259047	18.29%	0.595%
257	15.041	15.016	15.099	HH	14652	575480	40.62%	1.322%
258	15.122	15.099	15.154	HH	10788	350188	24.72%	0.805%
259	15.171	15.154	15.196	HH	11979	281770	19.89%	0.648%
260	15.215	15.196	15.277	HH	12408	562426	39.70%	1.292%
261	15.294	15.277	15.314	HH	11410	248593	17.55%	0.571%
262	15.335	15.314	15.364	HH	11221	331523	23.40%	0.762%
263	15.384	15.364	15.404	HH	11195	266251	18.79%	0.612%
264	15.412	15.404	15.437	HH	11390	219719	15.51%	0.505%
265	15.446	15.437	15.458	HH	10986	133688	9.44%	0.307%
266	15.493	15.458	15.526	HH	11508	457691	32.31%	1.052%
267	15.540	15.526	15.549	HH	11637	159773	11.28%	0.367%
268	15.557	15.549	15.564	HH	11732	103450	7.30%	0.238%
269	15.574	15.564	15.586	HH	11580	149361	10.54%	0.343%
270	15.634	15.586	15.709	HH	12704	888545	62.72%	2.042%
271	15.720	15.709	15.744	HH	12209	249387	17.60%	0.573%
272	15.762	15.744	15.790	HH	12191	333459	23.54%	0.766%
273	15.805	15.790	15.826	HH	12142	254502	17.97%	0.585%
274	15.855	15.826	15.877	HH	12557	378137	26.69%	0.869%
275	15.907	15.877	15.917	HH	12294	290910	20.54%	0.669%
276	15.940	15.917	15.954	HH	12504	270763	19.11%	0.622%
277	15.996	15.954	16.011	HH	13147	438674	30.97%	1.008%
278	16.024	16.011	16.051	HH	13054	299979	21.18%	0.689%
279	16.080	16.051	16.114	HH	13074	489395	34.55%	1.125%
280	16.138	16.114	16.164	HH	13410	391029	27.60%	0.899%
281	16.221	16.164	16.237	HH	13987	595278	42.02%	1.368%
282	16.267	16.237	16.299	HH	14767	521449	36.81%	1.198%
283	16.354	16.299	16.364	HH	14273	536492	37.87%	1.233%
284	16.372	16.364	16.382	HH	14311	157975	11.15%	0.363%
285	16.478	16.382	16.506	HH	15338	1080408	76.27%	2.483%
286	16.517	16.506	16.536	HH	14915	267094	18.85%	0.614%
287	16.560	16.536	16.587	HH	15713	477451	33.70%	1.097%
288	16.607	16.587	16.628	HH	16194	387647	27.36%	0.891%
289	16.656	16.628	16.676	HH	16272	448549	31.66%	1.031%
290	16.731	16.676	16.747	HH	17914	712427	50.29%	1.637%
291	16.758	16.747	16.787	HH	17763	413837	29.21%	0.951%
292	16.898	16.787	16.924	HH	18006	1416614	100.00%	3.255%
293	16.930	16.924	16.948	HH	17973	253342	17.88%	0.582%
294	16.975	16.948	16.994	HH	18410	504714	35.63%	1.160%
295	17.002	16.994	17.011	HH	18363	182939	12.91%	0.420%
296	17.032	17.011	17.057	HH	19306	529888	37.41%	1.218%
297	17.105	17.057	17.154	HH	20003	1122315	79.23%	2.579%
298	17.213	17.154	17.232	HH	22455	974214	68.77%	2.239%
299	17.245	17.232	17.286	HH	22750	683683	48.26%	1.571%

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Reviewed By :Yogesh Patel 12/12/2024
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					rters			
300	17.314	17.286	17.331	HH	21070	559965	39.53%	1.287%
301	17.346	17.331	17.376	HH	22228	580602	40	
					Sum of corrected areas:	435		

FG112024.M Thu Dec 12 00:20:38 2024

Instrument :
FID_G
ClientSampleId :
UST-1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Report of Analysis

Client:	JPCL Engineering	Date Collected:	12/05/24
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	12/06/24
Client Sample ID:	UST-2	SDG No.:	P5194
Lab Sample ID:	P5194-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.2
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014966.D	10	12/11/24 09:15	12/11/24 12:50	PB165556

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	294000		2030	18300	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.38		37 - 130	69%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014966.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 12:50
Operator : YP\AJ
Sample : P5194-02 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
UST-2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
Quant Time: Dec 11 23:17:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.040	159446	1.382 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014966.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 12:50
Operator : YP\AJ
Sample : P5194-02 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

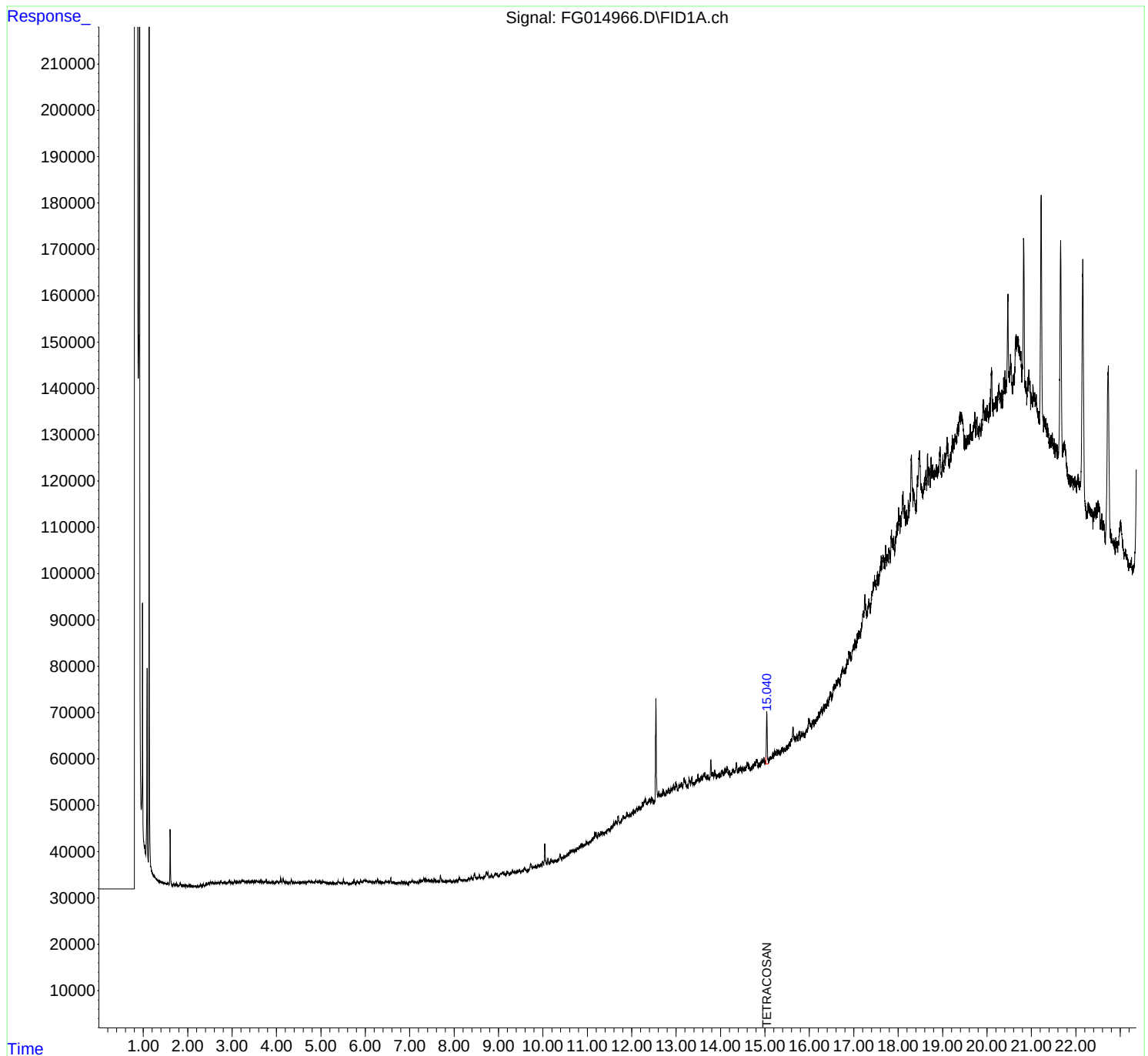
Instrument :
FID_G
ClientSampleId :
UST-2

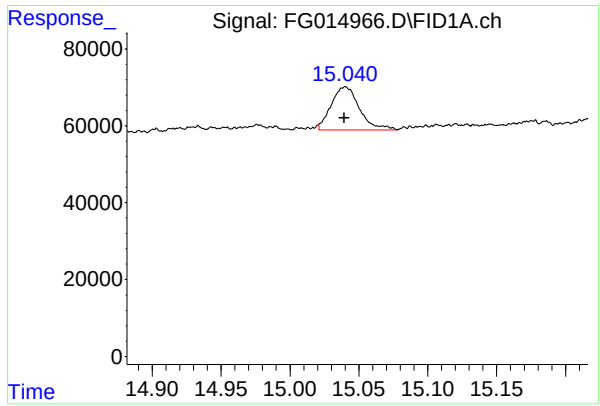
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
Quant Time: Dec 11 23:17:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.040 min
Delta R.T.: 0.000 min
Response: 159446
Conc: 1.38 ug/ml

Instrument :
FID_G
ClientSampleId :
UST-2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Instrument :

FID_G

ClientSampleId :

UST-2

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG12112
Data File : FG014966.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 12:50
Sample : P5194-02 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.425	4.400	4.452	BH	120	532	0.02%	0.001%
2	4.456	4.452	4.470	PH	-28	-650	-0.03%	-0.001%
3	4.477	4.470	4.491	PH	-0	-624	-0.03%	-0.001%
4	4.513	4.491	4.542	PH	68	-945	-0.04%	-0.001%
5	4.546	4.542	4.553	PH	-42	-346	-0.01%	-0.000%
6	4.567	4.553	4.583	PH	140	780	0.03%	0.001%
7	4.602	4.583	4.625	PH	197	1943	0.08%	0.002%
8	4.641	4.625	4.668	PH	113	383	0.02%	0.000%
9	4.721	4.668	4.726	PH	340	6219	0.26%	0.006%
10	4.733	4.726	4.762	HH	393	5148	0.21%	0.005%
11	4.766	4.762	4.778	HH	183	1503	0.06%	0.001%
12	4.794	4.778	4.830	HH	316	5778	0.24%	0.005%
13	4.884	4.830	4.920	HH	411	9643	0.40%	0.009%
14	4.923	4.920	4.926	HH	196	581	0.02%	0.001%
15	4.931	4.926	4.938	HH	212	1145	0.05%	0.001%
16	4.950	4.938	4.962	HH	254	2852	0.12%	0.003%
17	4.976	4.962	5.001	HH	306	4130	0.17%	0.004%
18	5.019	5.001	5.037	HH	219	3390	0.14%	0.003%
19	5.048	5.037	5.054	HH	342	2569	0.11%	0.002%
20	5.067	5.054	5.087	HH	280	3673	0.15%	0.003%
21	5.091	5.087	5.112	HH	65	526	0.02%	0.000%
22	5.119	5.112	5.132	PH	90	-55	-0.00%	-0.000%
23	5.138	5.132	5.155	PH	-56	-1092	-0.05%	-0.001%
24	5.177	5.155	5.195	PH	20	-1567	-0.07%	-0.001%
25	5.208	5.195	5.245	PH	47	-2609	-0.11%	-0.002%
26	5.264	5.245	5.311	PH	106	-3620	-0.15%	-0.003%
27	5.322	5.311	5.327	PH	-80	-1326	-0.06%	-0.001%
28	5.341	5.327	5.347	PH	-135	-1844	-0.08%	-0.002%
29	5.352	5.347	5.361	PH	-105	-1366	-0.06%	-0.001%
30	5.386	5.361	5.412	PH	438	3180	0.13%	0.003%
31	5.415	5.412	5.434	PH	37	-598	-0.02%	-0.001%
32	5.443	5.434	5.461	PH	-36	-1665	-0.07%	-0.002%
33	5.478	5.461	5.492	PH	-82	-2494	-0.10%	-0.002%
34	5.508	5.492	5.534	PH	849	6167	0.26%	0.006%
35	5.546	5.534	5.562	PH	-0	-1702	-0.07%	-0.002%
36	5.578	5.562	5.620	PH	76	-3745	-0.16%	-0.004%

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37	5.628	5.620	5.634	PH	-185	-2068	-0.09%	-0.002%
38	5.657	5.634	5.668	PH	-107	-3709	-0.04%	-0.001%
39	5.672	5.668	5.676	PH	-187	-1036	-0.04%	-0.001%
40	5.702	5.676	5.711	PH	25	-2851	-0.01%	-0.001%
41	5.745	5.711	5.774	PH	756	6430	0.10%	0.002%
42	5.779	5.774	5.790	PH	-53	-897	-0.01%	-0.001%
43	5.818	5.790	5.838	PH	328	2436	0.10%	0.002%
44	5.842	5.838	5.866	PH	14	-979	-0.04%	-0.001%
45	5.896	5.866	5.932	PH	493	7758	0.32%	0.007%
46	5.950	5.932	5.958	HH	367	4337	0.18%	0.004%
47	5.972	5.958	5.992	HH	555	8855	0.37%	0.008%
48	6.014	5.992	6.031	HH	586	10399	0.43%	0.010%
49	6.036	6.031	6.064	HH	383	4593	0.19%	0.004%
50	6.090	6.064	6.107	HH	339	5560	0.23%	0.005%
51	6.118	6.107	6.135	HH	299	3397	0.14%	0.003%
52	6.145	6.135	6.160	HH	241	2628	0.11%	0.002%
53	6.173	6.160	6.203	HH	249	4008	0.17%	0.004%
54	6.233	6.203	6.258	PH	491	7402	0.31%	0.007%
55	6.275	6.258	6.311	HH	748	11502	0.48%	0.011%
56	6.313	6.311	6.320	HH	217	632	0.03%	0.001%
57	6.323	6.320	6.334	HH	133	585	0.02%	0.001%
58	6.338	6.334	6.344	HH	102	354	0.01%	0.000%
59	6.347	6.344	6.351	PH	71	152	0.01%	0.000%
60	6.355	6.351	6.366	HH	65	244	0.01%	0.000%
61	6.372	6.366	6.379	HH	88	295	0.01%	0.000%
62	6.383	6.379	6.409	HH	65	368	0.02%	0.000%
63	6.428	6.409	6.440	PH	121	905	0.04%	0.001%
64	6.465	6.440	6.490	HH	400	6865	0.28%	0.007%
65	6.515	6.490	6.553	HH	256	6388	0.27%	0.006%
66	6.574	6.553	6.596	PH	1090	10619	0.44%	0.010%
67	6.625	6.596	6.666	PH	187	1116	0.05%	0.001%
68	6.668	6.666	6.678	PH	-21	-582	-0.02%	-0.001%
69	6.680	6.678	6.703	PH	-68	-1985	-0.08%	-0.002%
70	6.736	6.703	6.753	PH	99	-1753	-0.07%	-0.002%
71	6.779	6.753	6.789	PH	60	-1149	-0.05%	-0.001%
72	6.815	6.789	6.832	PH	498	3579	0.15%	0.003%
73	6.836	6.832	6.854	PH	-15	-686	-0.03%	-0.001%
74	6.882	6.854	6.906	PH	200	1382	0.06%	0.001%
75	6.914	6.906	6.923	PH	21	-290	-0.01%	-0.000%
76	6.934	6.923	6.960	PH	56	-1477	-0.06%	-0.001%
77	6.964	6.960	6.975	PH	-64	-1341	-0.06%	-0.001%
78	7.002	6.975	7.023	PH	202	1749	0.07%	0.002%
79	7.025	7.023	7.038	HH	173	1068	0.04%	0.001%
80	7.059	7.038	7.091	HH	528	9315	0.39%	0.009%
81	7.101	7.091	7.133	HH	237	3567	0.15%	0.003%
82	7.140	7.133	7.150	HH	193	1297	0.05%	0.001%
83	7.172	7.150	7.196	HH	234	2915	0.12%	0.003%
84	7.221	7.196	7.236	PH	510	6851	0.28%	0.006%
85	7.241	7.236	7.261	HH	396	4551	0.19%	0.004%
86	7.269	7.261	7.274	HH	355	2387	0.10%	0.002%
87	7.277	7.274	7.284	HH	373	2017	0.08%	0.002%
88	7.320	7.284	7.340	HH	845	20236	0.84%	0.019%
89	7.344	7.340	7.358	HH	601	5920	0.25%	0.006%

Instrument :

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Supervised By :Ankita Jodhani 12/12/2024

90	7.370	7.358	7.403	HH	787	15337	0.64%	0.015%
91	7.413	7.403	7.423	HH	613	6189		
92	7.430	7.423	7.443	HH	606	5703		
93	7.454	7.443	7.468	HH	456	6123		
94	7.483	7.468	7.499	HH	484	6733		
95	7.507	7.499	7.533	HH	397	6631		
96	7.550	7.533	7.577	HH	943	14151	0.59%	0.013%
97	7.580	7.577	7.614	HH	488	6712	0.28%	0.006%
98	7.630	7.614	7.651	HH	444	6692	0.28%	0.006%
99	7.659	7.651	7.664	HH	253	1803	0.07%	0.002%
100	7.668	7.664	7.674	HH	315	1579	0.07%	0.001%
101	7.693	7.674	7.732	HH	1659	27713	1.15%	0.026%
102	7.740	7.732	7.768	HH	487	6905	0.29%	0.007%
103	7.772	7.768	7.791	HH	260	2904	0.12%	0.003%
104	7.805	7.791	7.813	HH	382	3648	0.15%	0.003%
105	7.817	7.813	7.833	HH	305	2943	0.12%	0.003%
106	7.857	7.833	7.884	HH	477	11622	0.48%	0.011%
107	7.910	7.884	7.962	HH	501	15362	0.64%	0.015%
108	7.997	7.962	8.013	HH	399	8428	0.35%	0.008%
109	8.025	8.013	8.043	HH	376	5434	0.23%	0.005%
110	8.060	8.043	8.080	HH	546	9450	0.39%	0.009%
111	8.121	8.080	8.148	HH	1130	28888	1.20%	0.027%
112	8.151	8.148	8.179	HH	588	9345	0.39%	0.009%
113	8.209	8.179	8.221	HH	635	13420	0.56%	0.013%
114	8.225	8.221	8.230	HH	614	3225	0.13%	0.003%
115	8.237	8.230	8.283	HH	658	16841	0.70%	0.016%
116	8.331	8.283	8.351	HH	1029	29663	1.23%	0.028%
117	8.366	8.351	8.371	HH	787	8823	0.37%	0.008%
118	8.385	8.371	8.422	HH	1381	30082	1.25%	0.029%
119	8.460	8.422	8.514	HH	2116	67942	2.82%	0.064%
120	8.526	8.514	8.535	HH	984	11654	0.48%	0.011%
121	8.571	8.535	8.594	HH	1689	43570	1.81%	0.041%
122	8.611	8.594	8.624	HH	1192	20716	0.86%	0.020%
123	8.635	8.624	8.655	HH	1238	19891	0.83%	0.019%
124	8.732	8.655	8.748	HH	2379	89299	3.71%	0.085%
125	8.763	8.748	8.786	HH	2203	37974	1.58%	0.036%
126	8.801	8.786	8.816	HH	1375	22544	0.94%	0.021%
127	8.841	8.816	8.877	HH	1863	52075	2.16%	0.049%
128	8.936	8.877	8.951	HH	2091	73385	3.04%	0.070%
129	8.969	8.951	8.989	HH	1990	39789	1.65%	0.038%
130	9.003	8.989	9.011	HH	1556	18780	0.78%	0.018%
131	9.015	9.011	9.021	HH	1467	8620	0.36%	0.008%
132	9.039	9.021	9.051	HH	1971	31619	1.31%	0.030%
133	9.053	9.051	9.059	HH	1954	9507	0.39%	0.009%
134	9.064	9.059	9.073	HH	1937	15593	0.65%	0.015%
135	9.095	9.073	9.124	HH	2372	63865	2.65%	0.061%
136	9.129	9.124	9.151	HH	1955	29959	1.24%	0.028%
137	9.196	9.151	9.215	HH	2559	77602	3.22%	0.074%
138	9.222	9.215	9.240	HH	2158	30897	1.28%	0.029%
139	9.269	9.240	9.290	HH	2193	59524	2.47%	0.056%
140	9.310	9.290	9.325	HH	2795	51140	2.12%	0.049%
141	9.328	9.325	9.346	HH	2430	28319	1.17%	0.027%

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142	9.361	9.346	9.379	HH	2228	42156	1.75%	0.040%
143	9.391	9.379	9.395	HH	2278	22184		
144	9.427	9.395	9.440	HH	2631	64849		
145	9.465	9.440	9.498	HH	2709	86985		
146	9.503	9.498	9.507	HH	2321	11897		
147	9.529	9.507	9.556	HH	2622	73672		
148	9.587	9.556	9.616	HH	3339	105336	4.37%	0.100%
149	9.624	9.616	9.648	HH	2748	49258	2.04%	0.047%
150	9.684	9.648	9.689	HH	2808	64470	2.67%	0.061%
151	9.727	9.689	9.753	HH	4135	135485	5.62%	0.129%
152	9.782	9.753	9.800	HH	3507	94189	3.91%	0.089%
153	9.808	9.800	9.820	HH	3393	39883	1.65%	0.038%
154	9.835	9.820	9.854	HH	3701	68891	2.86%	0.065%
155	9.900	9.854	9.918	HH	3859	137066	5.69%	0.130%
156	9.931	9.918	9.946	HH	3757	62576	2.60%	0.059%
157	9.955	9.946	9.976	HH	3896	68159	2.83%	0.065%
158	9.993	9.976	10.018	HH	4634	106304	4.41%	0.101%
159	10.043	10.018	10.090	HH	8390	226073	9.38%	0.214%
160	10.111	10.090	10.132	HH	5294	118231	4.91%	0.112%
161	10.146	10.132	10.160	HH	4278	71464	2.97%	0.068%
162	10.181	10.160	10.202	HH	5194	118694	4.92%	0.113%
163	10.218	10.202	10.237	HH	4842	97305	4.04%	0.092%
164	10.259	10.237	10.274	HH	4791	103747	4.30%	0.098%
165	10.298	10.274	10.314	HH	4911	113873	4.72%	0.108%
166	10.344	10.314	10.357	HH	5048	122757	5.09%	0.116%
167	10.387	10.357	10.428	HH	6134	232098	9.63%	0.220%
168	10.446	10.428	10.462	HH	5503	108516	4.50%	0.103%
169	10.475	10.462	10.498	HH	5650	118154	4.90%	0.112%
170	10.515	10.498	10.519	HH	5712	73906	3.07%	0.070%
171	10.533	10.519	10.543	HH	5999	83111	3.45%	0.079%
172	10.570	10.543	10.574	HH	6212	112850	4.68%	0.107%
173	10.615	10.574	10.627	HH	6905	206169	8.55%	0.196%
174	10.646	10.627	10.650	HH	6885	93777	3.89%	0.089%
175	10.655	10.650	10.675	HH	7100	100957	4.19%	0.096%
176	10.678	10.675	10.683	HH	6815	33640	1.40%	0.032%
177	10.694	10.683	10.702	HH	7036	79700	3.31%	0.076%
178	10.712	10.702	10.720	HH	6913	72064	2.99%	0.068%
179	10.730	10.720	10.734	HH	7064	59458	2.47%	0.056%
180	10.741	10.734	10.746	HH	7055	51904	2.15%	0.049%
181	10.767	10.746	10.774	HH	7510	119034	4.94%	0.113%
182	10.781	10.774	10.791	HH	7556	78529	3.26%	0.074%
183	10.794	10.791	10.803	HH	7443	51804	2.15%	0.049%
184	10.814	10.803	10.828	HH	7731	113651	4.72%	0.108%
185	10.844	10.828	10.858	HH	7940	139436	5.79%	0.132%
186	10.873	10.858	10.891	HH	8536	162390	6.74%	0.154%
187	10.900	10.891	10.906	HH	7999	72715	3.02%	0.069%
188	10.921	10.906	10.930	HH	8182	112966	4.69%	0.107%
189	10.946	10.930	10.952	HH	8387	110686	4.59%	0.105%
190	10.957	10.952	10.965	HH	8250	65762	2.73%	0.062%
191	10.983	10.965	10.997	HH	8845	163567	6.79%	0.155%
192	11.009	10.997	11.027	HH	8697	154634	6.42%	0.147%
193	11.055	11.027	11.068	HH	8908	216655	8.99%	0.205%
194	11.101	11.068	11.107	HH	9344	210386	8.73%	0.200%

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195	11.113	11.107	11.119	HH	9422	64935	2.69%	0.062%
196	11.144	11.119	11.153	HH	9896	195775		
197	11.167	11.153	11.180	HH	10831	169887		
198	11.194	11.180	11.225	HH	10837	276028	11.11%	0.062%
199	11.245	11.225	11.265	HH	10764	243283	10.03%	0.062%
200	11.284	11.265	11.290	HH	10499	154565	6.26%	0.062%
201	11.303	11.290	11.321	HH	10921	203099	8.43%	0.193%
202	11.329	11.321	11.334	HH	10669	79147	3.28%	0.075%
203	11.346	11.334	11.350	HH	10876	107112	4.44%	0.102%
204	11.360	11.350	11.380	HH	10835	186395	7.73%	0.177%
205	11.399	11.380	11.406	HH	10994	168073	6.97%	0.159%
206	11.417	11.406	11.429	HH	11061	150834	6.26%	0.143%
207	11.459	11.429	11.465	HH	11581	241650	10.03%	0.229%
208	11.472	11.465	11.480	HH	11618	102200	4.24%	0.097%
209	11.488	11.480	11.515	HH	11692	246165	10.21%	0.233%
210	11.593	11.515	11.613	HH	13121	714916	29.66%	0.678%
211	11.638	11.613	11.657	HH	13401	342997	14.23%	0.325%
212	11.659	11.657	11.666	HH	13086	69875	2.90%	0.066%
213	11.698	11.666	11.728	HH	14380	500854	20.78%	0.475%
214	11.736	11.728	11.740	HH	12980	96928	4.02%	0.092%
215	11.770	11.740	11.782	HH	13741	334178	13.87%	0.317%
216	11.811	11.782	11.825	HH	14398	362600	15.04%	0.344%
217	11.830	11.825	11.834	HH	14103	70645	2.93%	0.067%
218	11.839	11.834	11.849	HH	14164	126626	5.25%	0.120%
219	11.887	11.849	11.918	HH	15239	601769	24.97%	0.571%
220	11.926	11.918	11.933	HH	14737	130624	5.42%	0.124%
221	11.936	11.933	11.946	HH	14665	116032	4.81%	0.110%
222	11.954	11.946	11.970	HH	14786	212077	8.80%	0.201%
223	11.977	11.970	11.983	HH	14822	109662	4.55%	0.104%
224	12.003	11.983	12.013	HH	15334	271928	11.28%	0.258%
225	12.045	12.013	12.057	HH	15651	401806	16.67%	0.381%
226	12.071	12.057	12.083	HH	15370	232582	9.65%	0.221%
227	12.090	12.083	12.096	HH	15703	124127	5.15%	0.118%
228	12.112	12.096	12.134	HH	16050	355535	14.75%	0.337%
229	12.152	12.134	12.167	HH	16490	321036	13.32%	0.305%
230	12.184	12.167	12.213	HH	16370	443560	18.40%	0.421%
231	12.245	12.213	12.255	HH	17439	421753	17.50%	0.400%
232	12.279	12.255	12.295	HH	17538	415004	17.22%	0.394%
233	12.307	12.295	12.332	HH	18179	393103	16.31%	0.373%
234	12.336	12.332	12.342	HH	17038	100286	4.16%	0.095%
235	12.347	12.342	12.353	HH	17227	110654	4.59%	0.105%
236	12.361	12.353	12.368	HH	17376	155345	6.45%	0.147%
237	12.394	12.368	12.401	HH	17962	350851	14.56%	0.333%
238	12.406	12.401	12.415	HH	18084	148845	6.18%	0.141%
239	12.419	12.415	12.435	HH	17880	210771	8.74%	0.200%
240	12.446	12.435	12.474	HH	18402	418041	17.34%	0.397%
241	12.478	12.474	12.490	HH	17868	175616	7.29%	0.167%
242	12.496	12.490	12.502	HH	17493	120943	5.02%	0.115%
243	12.542	12.502	12.585	HH	39750	1166028	48.38%	1.106%
244	12.608	12.585	12.615	HH	19731	335358	13.91%	0.318%
245	12.622	12.615	12.644	HH	19186	330698	13.72%	0.314%
246	12.651	12.644	12.660	HH	19031	178980	7.43%	0.170%

Instrument :

FID_G

ClientSampleId :

UST-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

					rters			
247	12.665	12.660	12.675	HH	19152	180342	7.48%	0.171%
248	12.683	12.675	12.687	HH	19008	132445		
249	12.701	12.687	12.705	HH	19633	211981		
250	12.714	12.705	12.743	HH	19930	437139	18.80%	0.430%
251	12.757	12.743	12.765	HH	19248	256554	10.94%	0.250%
252	12.783	12.765	12.802	HH	19914	428316	17.30%	0.396%
253	12.808	12.802	12.817	HH	19595	172084	7.14%	0.163%
254	12.831	12.817	12.860	HH	20235	514119	21.33%	0.488%
255	12.882	12.860	12.890	HH	20475	352751	14.64%	0.335%
256	12.893	12.890	12.902	HH	20131	150405	6.24%	0.143%
257	12.907	12.902	12.924	HH	20519	263721	10.94%	0.250%
258	12.940	12.924	12.960	HH	21202	453124	18.80%	0.430%
259	12.990	12.960	12.993	HH	21682	413569	17.16%	0.392%
260	12.999	12.993	13.028	HH	21722	431424	17.90%	0.409%
261	13.033	13.028	13.040	HH	20205	146537	6.08%	0.139%
262	13.071	13.040	13.083	HH	21110	530783	22.02%	0.503%
263	13.100	13.083	13.105	HH	21172	271372	11.26%	0.257%
264	13.126	13.105	13.150	HH	21534	570062	23.65%	0.541%
265	13.174	13.150	13.185	HH	22642	453762	18.83%	0.430%
266	13.189	13.185	13.237	HH	22175	682051	28.30%	0.647%
267	13.241	13.237	13.252	HH	21182	182885	7.59%	0.173%
268	13.256	13.252	13.267	HH	20936	191899	7.96%	0.182%
269	13.288	13.267	13.324	HH	22753	731926	30.37%	0.694%
270	13.356	13.324	13.371	HH	22878	626932	26.01%	0.595%
271	13.375	13.371	13.383	HH	21596	151141	6.27%	0.143%
272	13.390	13.383	13.415	HH	21610	417018	17.30%	0.396%
273	13.423	13.415	13.428	HH	21719	160971	6.68%	0.153%
274	13.439	13.428	13.455	HH	22204	360289	14.95%	0.342%
275	13.459	13.455	13.470	HH	22262	200467	8.32%	0.190%
276	13.490	13.470	13.515	HH	23330	595838	24.72%	0.565%
277	13.534	13.515	13.550	HH	22601	466248	19.34%	0.442%
278	13.560	13.550	13.592	HH	22987	569012	23.61%	0.540%
279	13.599	13.592	13.602	HH	22739	141779	5.88%	0.134%
280	13.617	13.602	13.631	HH	23389	402199	16.69%	0.381%
281	13.643	13.631	13.667	HH	23868	501252	20.80%	0.475%
282	13.678	13.667	13.690	HH	22936	317075	13.16%	0.301%
283	13.705	13.690	13.715	HH	23212	342945	14.23%	0.325%
284	13.720	13.715	13.732	HH	23344	229708	9.53%	0.218%
285	13.749	13.732	13.758	HH	22726	346251	14.37%	0.328%
286	13.778	13.758	13.803	HH	26411	669756	27.79%	0.635%
287	13.815	13.803	13.819	HH	23680	216331	8.98%	0.205%
288	13.824	13.819	13.847	HH	23880	396841	16.47%	0.376%
289	13.865	13.847	13.873	HH	24130	364716	15.13%	0.346%
290	13.879	13.873	13.907	HH	23706	473072	19.63%	0.449%
291	13.916	13.907	13.923	HH	23345	217338	9.02%	0.206%
292	13.944	13.923	13.948	HH	23433	347211	14.41%	0.329%
293	13.954	13.948	13.976	HH	23337	390976	16.22%	0.371%
294	13.990	13.976	14.008	HH	23678	436321	18.10%	0.414%
295	14.027	14.008	14.041	HH	24333	480116	19.92%	0.455%
296	14.045	14.041	14.058	HH	24028	235952	9.79%	0.224%
297	14.067	14.058	14.074	HH	23559	221517	9.19%	0.210%
298	14.096	14.074	14.107	HH	24457	473573	19.65%	0.449%
299	14.117	14.107	14.130	HH	24433	329773	13.68%	0.313%

Instrument :

FID_G

ClientSampleId :

UST-2

Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 12/12/2024
 Supervised By :Ankita Jodhani 12/12/2024

					rters				
300	14.138	14.130	14.152	HH	25072	334652	13.88%	0.317%	
301	14.156	14.152	14.170	HH	24633	252679	10.88%	0.317%	
302	14.174	14.170	14.184	HH	23978	208124	8.88%	0.317%	
303	14.191	14.184	14.194	HH	23857	139554	5.88%	0.317%	
304	14.200	14.194	14.211	HH	24005	243230	10.00%	0.317%	
305	14.244	14.211	14.254	HH	23751	597332	24.75%	0.317%	
306	14.278	14.254	14.311	HH	24415	831346	34.49%	0.789%	
307	14.314	14.311	14.329	HH	24175	251744	10.44%	0.239%	
308	14.356	14.329	14.394	HH	25975	964468	40.02%	0.915%	
309	14.411	14.394	14.420	HH	24890	370531	15.37%	0.351%	
310	14.437	14.420	14.444	HH	24625	353459	14.67%	0.335%	
311	14.459	14.444	14.483	HH	24997	579177	24.03%	0.549%	
312	14.504	14.483	14.518	HH	24893	508195	21.09%	0.482%	
313	14.520	14.518	14.529	HH	24661	162910	6.76%	0.155%	
314	14.537	14.529	14.568	HH	24903	575213	23.87%	0.546%	
315	14.583	14.568	14.587	HH	25259	287953	11.95%	0.273%	
316	14.596	14.587	14.604	HH	26032	259319	10.76%	0.246%	
317	14.609	14.604	14.632	HH	25806	430406	17.86%	0.408%	
318	14.638	14.632	14.663	HH	25619	459768	19.08%	0.436%	
319	14.669	14.663	14.674	HH	24699	165386	6.86%	0.157%	
320	14.680	14.674	14.688	HH	24614	206587	8.57%	0.196%	
321	14.705	14.688	14.716	HH	25174	407802	16.92%	0.387%	
322	14.768	14.716	14.773	HH	26079	873745	36.25%	0.829%	
323	14.776	14.773	14.787	HH	25494	207487	8.61%	0.197%	
324	14.807	14.787	14.815	HH	26602	448618	18.61%	0.426%	
325	14.821	14.815	14.844	HH	26644	443697	18.41%	0.421%	
326	14.851	14.844	14.859	HH	25475	226854	9.41%	0.215%	
327	14.864	14.859	14.871	HH	25673	179042	7.43%	0.170%	
328	14.878	14.871	14.897	HH	25833	405790	16.84%	0.385%	
329	14.902	14.897	14.907	HH	25908	153680	6.38%	0.146%	
330	14.933	14.907	14.939	HH	26584	495871	20.57%	0.470%	
331	14.944	14.939	14.957	HH	26305	288375	11.96%	0.274%	
332	14.977	14.957	14.984	HH	26885	417841	17.34%	0.396%	
333	14.989	14.984	15.001	HH	26551	268577	11.14%	0.255%	
334	15.006	15.001	15.011	HH	26216	150551	6.25%	0.143%	
335	15.040	15.011	15.086	HH	36958	1323571	54.92%	1.255%	
336	15.121	15.086	15.138	HH	27313	837683	34.76%	0.795%	
337	15.145	15.138	15.157	HH	27192	315731	13.10%	0.299%	
338	15.177	15.157	15.192	HH	27965	579142	24.03%	0.549%	
339	15.216	15.192	15.237	HH	28560	739227	30.67%	0.701%	
340	15.266	15.237	15.281	HH	28810	741730	30.77%	0.704%	
341	15.291	15.281	15.301	HH	28678	338860	14.06%	0.321%	
342	15.306	15.301	15.309	HH	28480	147698	6.13%	0.140%	
343	15.313	15.309	15.327	HH	28375	290957	12.07%	0.276%	
344	15.337	15.327	15.344	HH	28240	292019	12.12%	0.277%	
345	15.347	15.344	15.358	HH	28500	234940	9.75%	0.223%	
346	15.374	15.358	15.387	HH	29172	506326	21.01%	0.480%	
347	15.402	15.387	15.418	HH	29247	521388	21.63%	0.495%	
348	15.441	15.418	15.454	HH	29059	615156	25.52%	0.583%	
349	15.457	15.454	15.464	HH	28930	181479	7.53%	0.172%	
350	15.484	15.464	15.489	HH	29488	434580	18.03%	0.412%	
351	15.495	15.489	15.501	HH	29499	210999	8.75%	0.200%	

Instrument :

FID_G

ClientSampleId :

UST-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Instrument : FID_G ClientSampleId : UST-2								
rteres					Manual IntegrationsAPPROVED			
352	15.509	15.501	15.517	HH	29473	286116	11.87%	0.271%
353	15.521	15.517	15.529	HH	29733	210196	8.74%	0.271%
354	15.537	15.529	15.543	HH	29932	244288	10.60%	0.271%
355	15.555	15.543	15.570	HH	30498	487757	20.66%	0.271%
356	15.584	15.570	15.589	HH	30968	344286	14.46%	0.489%
357	15.593	15.589	15.606	HH	30771	305229	12.35%	0.489%
358	15.626	15.606	15.632	HH	33554	515542	21.39%	0.489%
359	15.635	15.632	15.664	HH	33544	602647	25.00%	0.572%
360	15.682	15.664	15.695	HH	31374	568675	23.59%	0.539%
361	15.720	15.695	15.741	HH	32088	866992	35.97%	0.822%
362	15.769	15.741	15.794	HH	32579	1005395	41.71%	0.954%
363	15.815	15.794	15.839	HH	32599	872442	36.20%	0.828%
364	15.851	15.839	15.872	HH	32542	636044	26.39%	0.603%
365	15.886	15.872	15.905	HH	32318	632134	26.23%	0.600%
366	15.923	15.905	15.934	HH	32799	560667	23.26%	0.532%
367	15.940	15.934	15.958	HH	33180	475702	19.74%	0.451%
368	15.983	15.958	15.993	HH	35595	709958	29.46%	0.673%
369	16.000	15.993	16.020	HH	35048	560016	23.24%	0.531%
370	16.028	16.020	16.048	HH	34405	582828	24.18%	0.553%
371	16.068	16.048	16.085	HH	34827	747393	31.01%	0.709%
372	16.093	16.085	16.100	HH	35295	325363	13.50%	0.309%
373	16.107	16.100	16.113	HH	35041	256455	10.64%	0.243%
374	16.125	16.113	16.129	HH	35110	341444	14.17%	0.324%
375	16.152	16.129	16.156	HH	35257	558295	23.16%	0.530%
376	16.164	16.156	16.171	HH	35816	324992	13.48%	0.308%
377	16.184	16.171	16.196	HH	35935	524434	21.76%	0.497%
378	16.207	16.196	16.226	HH	36896	646498	26.82%	0.613%
379	16.231	16.226	16.237	HH	36326	256069	10.62%	0.243%
380	16.274	16.237	16.282	HH	37807	983588	40.81%	0.933%
381	16.323	16.282	16.335	HH	38482	1191230	49.42%	1.130%
382	16.356	16.335	16.386	HH	38525	1162727	48.24%	1.103%
383	16.415	16.386	16.421	HH	39367	810400	33.62%	0.769%
384	16.426	16.421	16.429	HH	38718	195864	8.13%	0.186%
385	16.474	16.429	16.501	HH	41275	1719283	71.33%	1.631%
386	16.536	16.501	16.542	HH	42234	1013004	42.03%	0.961%
387	16.548	16.542	16.557	HH	42644	385106	15.98%	0.365%
388	16.562	16.557	16.572	HH	42781	381748	15.84%	0.362%
389	16.576	16.572	16.582	HH	42723	237357	9.85%	0.225%
390	16.602	16.582	16.618	HH	43648	931746	38.66%	0.884%
391	16.622	16.618	16.626	HH	43368	217692	9.03%	0.206%
392	16.637	16.626	16.643	HH	43616	428693	17.79%	0.407%
393	16.657	16.643	16.676	HH	44257	880693	36.54%	0.835%
394	16.680	16.676	16.694	HH	43843	454432	18.85%	0.431%
395	16.704	16.694	16.711	HH	44813	441199	18.31%	0.418%
396	16.729	16.711	16.733	HH	45894	615468	25.54%	0.584%
397	16.753	16.733	16.778	HH	46506	1233287	51.17%	1.170%
398	16.791	16.778	16.800	HH	46141	579809	24.06%	0.550%
399	16.806	16.800	16.813	HH	46422	367642	15.25%	0.349%
400	16.835	16.813	16.840	HH	47199	757634	31.43%	0.719%
401	16.846	16.840	16.852	HH	48248	349347	14.49%	0.331%
402	16.867	16.852	16.872	HH	48110	571161	23.70%	0.542%
403	16.886	16.872	16.894	HH	49887	629591	26.12%	0.597%
404	16.902	16.894	16.909	HH	49822	446933	18.54%	0.424%

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

FG112024.M Thu Dec 12 00:24:07 2024



CALIBRATION SUMMARY

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: JPCL01
 ProjectID: 1454 to 1460 Haddon Avenue, Camden, NJ
 Lab Code: CHEM Case No.: P5194 SAS No.: P5194 SDG No.: P5194

Calibration Sequence : FG112024		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	122483220	122483	FG014888.D
500	61587639	123175	FG014889.D
200	25738367	128692	FG014890.D
100	14303309	143033	FG014891.D
50	6841225	136824	FG014892.D
AVG RF : 130841		% RSD : 6.811	AVG RT : 15.0408

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: JPCL01
ProjectID: 1454 to 1460 Haddon Avenue, Camden, NJ
Lab Code: CHEM Case No.: P5194 SAS No.: P5194 SDG No.: P5194
DataFile: FG014963.D Analyst Name: YP\AJ Analyst Date: 12-11-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	61051557	122103	130841	6.678

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
 Data File : FG014963.D
 Signal(s) : FID1A.ch
 Acq On : 11 Dec 2024 10:47
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Dec 11 23:16:10 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
 Quant Title :
 QLast Update : Thu Nov 21 02:41:43 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.042	5369831	46.533 ug/ml
Target Compounds			
2) N-DECANE	4.565	6144523	46.047 ug/ml
3) N-DODECANE	6.737	6240772	45.356 ug/ml
4) N-TETRADECANE	8.570	6249005	46.874 ug/ml
5) N-HEXADECANE	10.181	6237626	46.346 ug/ml
6) N-OCTADECANE	11.628	6308003	45.948 ug/ml
7) N-EICOSANE	12.941	6312567	47.635 ug/ml
8) N-DOCOSANE	14.141	6042978	46.838 ug/ml
10) N-TETRACOSANE	15.245	5942341	46.924 ug/ml
11) N-HEXACOSANE	16.269	5807814	47.204 ug/ml
12) N-OCTACOSANE	17.219	5765928	47.660 ug/ml

(f)=RT Delta > 1/2 Window

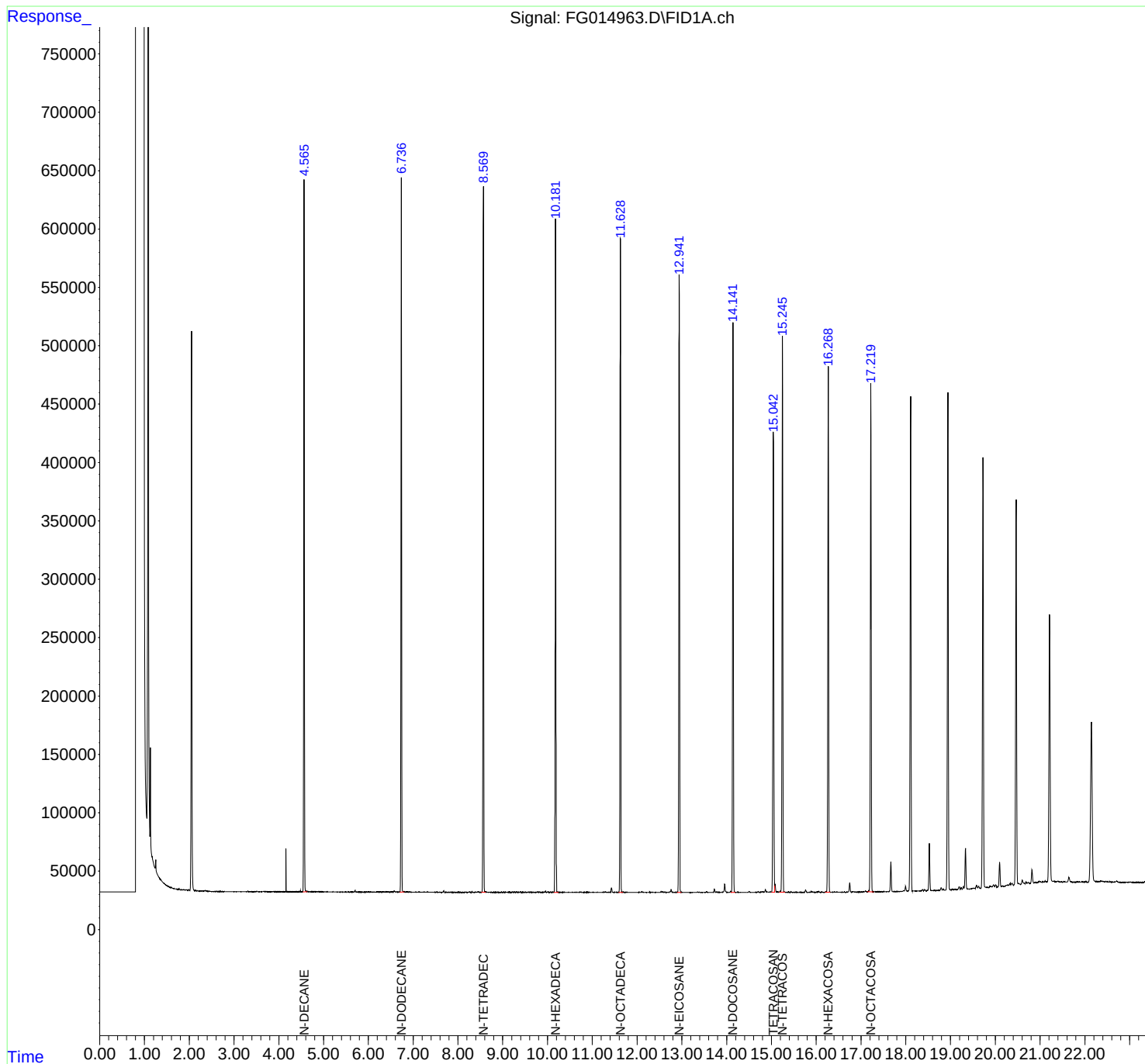
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014963.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 10:47
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Dec 11 23:16:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014963.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 10:47
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.565	4.533	4.634	BB	610464	6144523	97.34%	9.251%
2	6.737	6.697	6.801	BB	608352	6240772	98.86%	9.396%
3	8.570	8.522	8.620	BB	604061	6249005	98.99%	9.408%
4	10.181	10.139	10.239	BB	576258	6237626	98.81%	9.391%
5	11.628	11.588	11.684	BB	560140	6308003	99.93%	9.497%
6	12.941	12.893	12.991	BB	529590	6312567	100.00%	9.504%
7	14.141	14.105	14.192	VB	488230	6042978	95.73%	9.098%
8	15.042	15.000	15.073	BV	393660	5369831	85.07%	8.084%
9	15.245	15.173	15.307	BB	475100	5942341	94.14%	8.946%
10	16.269	16.200	16.317	BB	448176	5807814	92.00%	8.744%
11	17.219	17.148	17.285	BB	433778	5765928	91.34%	8.681%
Sum of corrected areas:						66421388		

FG112024.M Wed Dec 11 23:55:43 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: JPCL01
ProjectID: 1454 to 1460 Haddon Avenue, Camden, NJ
Lab Code: CHEM Case No.: P5194 SAS No.: P5194 SDG No.: P5194
DataFile: FG014970.D Analyst Name: YP\AJ Analyst Date: 12-11-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65892601	131785	130841	0.721

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
 Data File : FG014970.D
 Signal(s) : FID1A.ch
 Acq On : 11 Dec 2024 14:46
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/12/2024
 Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
 Quant Time: Dec 11 23:18:35 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
 Quant Title :
 QLast Update : Thu Nov 21 02:41:43 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.055	5723969	49.602 ug/ml
Target Compounds			
2) N-DECANE	4.571	6534952	48.973 ug/ml
3) N-DODECANE	6.745	6663083	48.426 ug/ml
4) N-TETRADECANE	8.578	6744858	50.593 ug/ml
5) N-HEXADECANE	10.191	6735029	50.042 ug/ml
6) N-OCTADECANE	11.638	6822521	49.696 ug/ml
7) N-EICOSANE	12.952	6818540	51.454 ug/ml
8) N-DOCOSANE	14.154	6518953	50.527 ug/ml
10) N-TETRACOSANE	15.261	6400579	50.542 ug/mlm
11) N-HEXACOSANE	16.282	6263121	50.905 ug/ml
12) N-OCTACOSANE	17.234	6390965	52.827 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014970.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 14:46
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

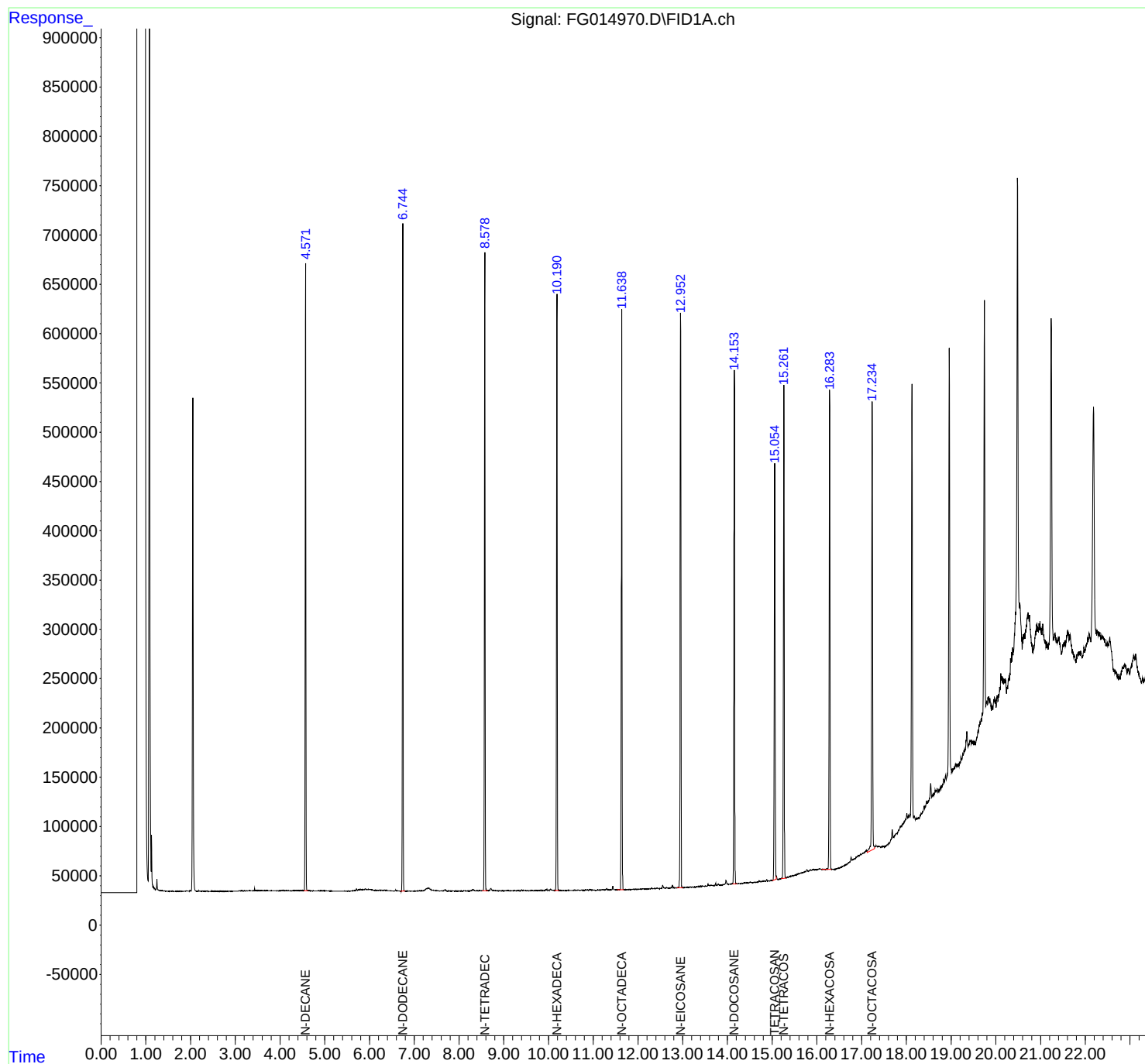
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
Quant Time: Dec 11 23:18:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Instrument :
FID_G
LabSampleId :
50 PPM TRPH STD
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG12112
Data File : FG014970.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 14:46
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.571	4.527	4.629	BB	636060	6534952	95.79%	9.128%
2	6.745	6.698	6.788	BB	676897	6663083	97.66%	9.307%
3	8.578	8.518	8.644	BB	647491	6744858	98.86%	9.422%
4	10.191	10.141	10.236	BB	603594	6735029	98.72%	9.408%
5	11.638	11.530	11.686	BB	588291	6822521	100.00%	9.530%
6	12.952	12.869	13.001	BB	582484	6818540	99.94%	9.525%
7	14.154	14.114	14.213	VB	520562	6518953	95.55%	9.106%
8	15.055	15.000	15.088	BV	421352	5723969	83.90%	7.996%
9	15.261	15.110	15.309	BB	493348	6373033	93.41%	8.902%
10	16.283	16.111	16.326	BV	485396	6263121	91.80%	8.749%
11	17.234	17.122	17.293	VV	454304	6390965	93.67%	8.927%
Sum of corrected areas:						71589024		

FG112024.M Wed Dec 11 23:59:44 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: JPCL01
ProjectID: 1454 to 1460 Haddon Avenue, Camden, NJ
Lab Code: CHEM Case No.: P5194 SAS No.: P5194 SDG No.: P5194
DataFile: FG014976.D Analyst Name: YP\AJ Analyst Date: 12-11-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65947250	131894	130841	0.805

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
 Data File : FG014976.D
 Signal(s) : FID1A.ch
 Acq On : 11 Dec 2024 18:06
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Dec 11 23:20:43 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
 Quant Title :
 QLast Update : Thu Nov 21 02:41:43 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.060	5714978	49.524 ug/ml
Target Compounds			
2) N-DECANE	4.572	6528804	48.927 ug/ml
3) N-DODECANE	6.747	6663513	48.429 ug/ml
4) N-TETRADECANE	8.581	6760295	50.709 ug/ml
5) N-HEXADECANE	10.194	6757407	50.208 ug/ml
6) N-OCTADECANE	11.642	6845431	49.863 ug/ml
7) N-EICOSANE	12.956	6847067	51.669 ug/ml
8) N-DOCOSANE	14.157	6543148	50.714 ug/ml
10) N-TETRACOSANE	15.265	6421383	50.706 ug/ml
11) N-HEXACOSANE	16.288	6319108	51.360 ug/ml
12) N-OCTACOSANE	17.239	6261094	51.753 ug/ml

(f)=RT Delta > 1/2 Window

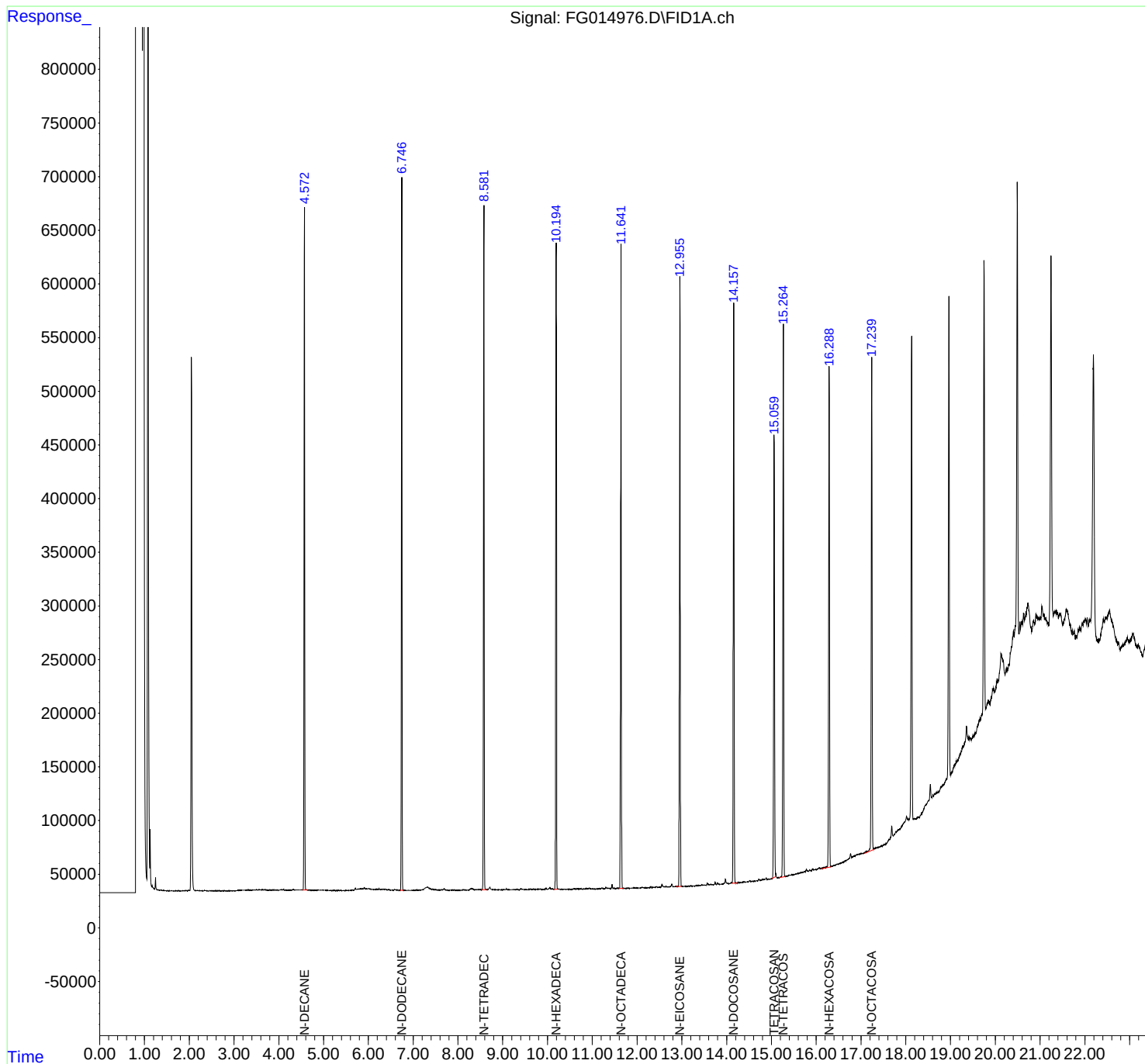
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014976.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 18:06
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Dec 11 23:20:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014976.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 18:06
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.572	4.529	4.633	BB	636561	6528804	95.35%	9.111%
2	6.747	6.705	6.793	BB	664369	6663513	97.32%	9.299%
3	8.581	8.517	8.647	BB	637382	6760295	98.73%	9.434%
4	10.194	10.146	10.232	BV	600961	6757407	98.69%	9.430%
5	11.642	11.591	11.694	BB	600705	6845431	99.98%	9.552%
6	12.956	12.873	13.004	BB	568359	6847067	100.00%	9.555%
7	14.157	14.120	14.234	VV	539981	6543148	95.56%	9.131%
8	15.060	15.000	15.091	BV	407832	5714978	83.47%	7.975%
9	15.265	15.165	15.314	PV	511408	6421383	93.78%	8.961%
10	16.288	16.110	16.326	VV	465381	6319108	92.29%	8.818%
11	17.239	17.084	17.283	VV	459756	6261094	91.44%	8.737%
Sum of corrected areas:						71662227		

FG112024.M Thu Dec 12 00:07:13 2024

Analytical Sequence

Client: JPCL Engineering

SDG No.: P5194

Project: 1454 to 1460 Haddon Avenue, Camden, NJ

Instrument ID: FID_G

GC Column: RXI-1MS **ID:** 0.18 (mm)

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.0408					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	11 Dec 2024 10:19	FG014962.D	15.038	
50 PPM TRPH STD	50 PPM TRPH STD	11 Dec 2024 10:47	FG014963.D	15.042	
UST-1	P5194-01	11 Dec 2024 12:22	FG014965.D	15.041	
UST-2	P5194-02	11 Dec 2024 12:50	FG014966.D	15.006	
PIBLK02	LBLK02	11 Dec 2024 14:18	FG014969.D	15.053	
50 PPM TRPH STD	50 PPM TRPH STD	11 Dec 2024 14:46	FG014970.D	15.055	
PB165556BL	PB165556BL	11 Dec 2024 15:15	FG014971.D	15.051	
PB165556BS	PB165556BS	11 Dec 2024 15:44	FG014972.D	15.050	
UST-2MS	P5194-02MS	11 Dec 2024 16:12	FG014973.D	15.012	
UST-2MSD	P5194-02MSD	11 Dec 2024 16:41	FG014974.D	15.013	
PIBLK03	LBLK03	11 Dec 2024 17:09	FG014975.D	15.059	
50 PPM TRPH STD	50 PPM TRPH STD	11 Dec 2024 18:06	FG014976.D	15.060	



QC SAMPLE DATA

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	
Client Sample ID:	PB165556BL	SDG No.:	P5194
Lab Sample ID:	PB165556BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014971.D	1	12/11/24 09:15	12/11/24 15:15	PB165556

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	185	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	16.3		37 - 130	82%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014971.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 15:15
Operator : YP\AJ
Sample : PB165556BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB165556BL

Integration File: autoint1.e
Quant Time: Dec 11 23:18:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.051	1882063	16.309 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

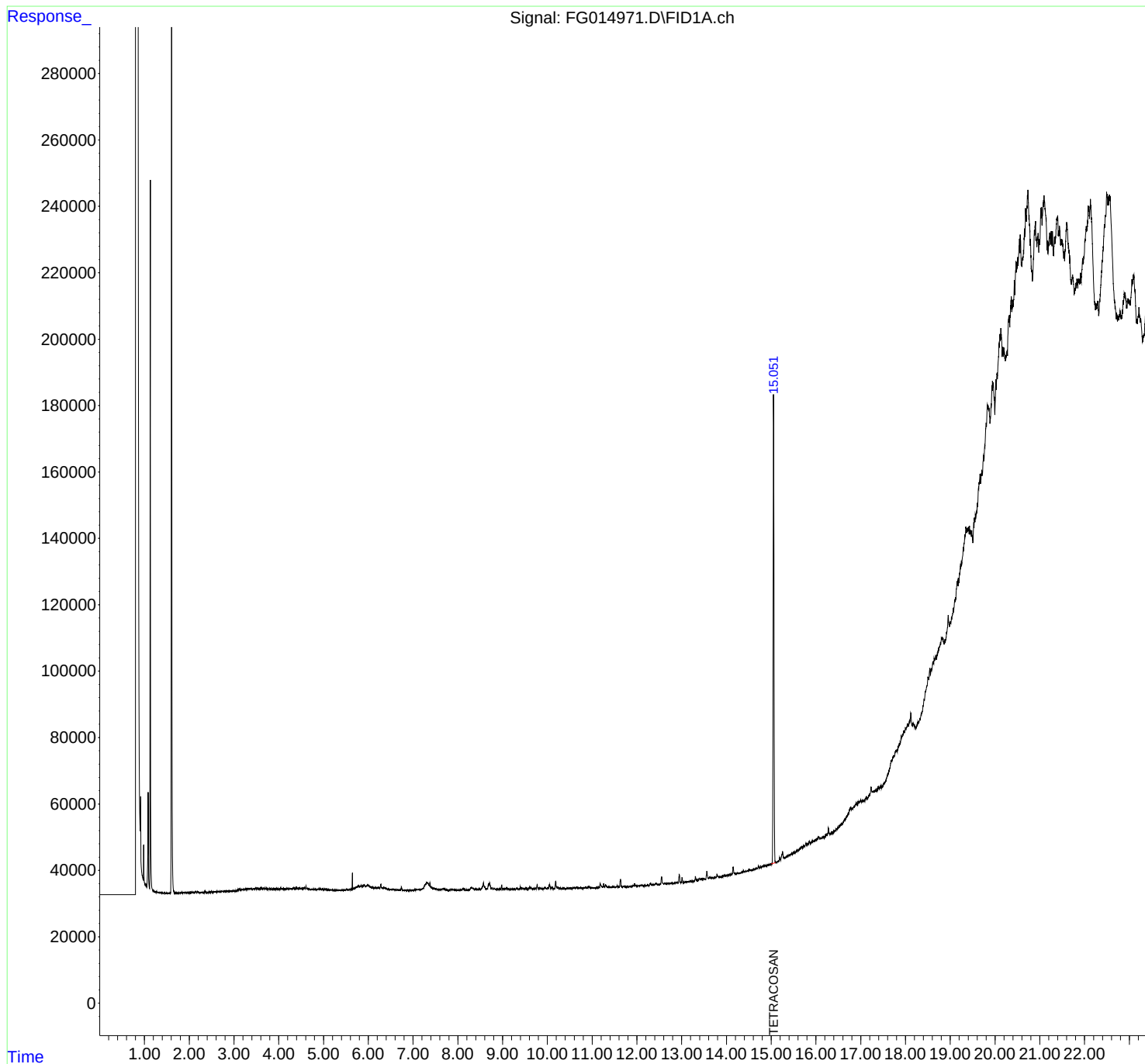
(m)=manual int.

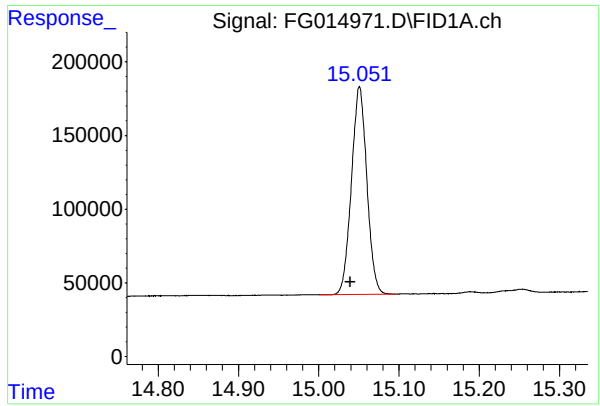
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014971.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 15:15
Operator : YP\AJ
Sample : PB165556BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB165556BL

Integration File: autoint1.e
Quant Time: Dec 11 23:18:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.051 min
Delta R.T.: 0.011 min
Response: 1882063
Conc: 16.31 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165556BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014971.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 15:15
Sample : PB165556BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.051	15.000	15.096	BV	141235	1882063	100.00%	100.000%
Sum of corrected areas:						1882063		

FG112024.M Thu Dec 12 00:00:16 2024

Report of Analysis

Client:	JPCL Engineering	Date Collected:	12/11/24
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	12/11/24
Client Sample ID:	PIBLK-FG014962.D	SDG No.:	P5194
Lab Sample ID:	I.BLK-FG014962.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014962.D	1		12/11/24	FG121124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.9		29 - 130	94%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014962.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 10:19
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 11 23:15:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.038	2177155	18.866 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

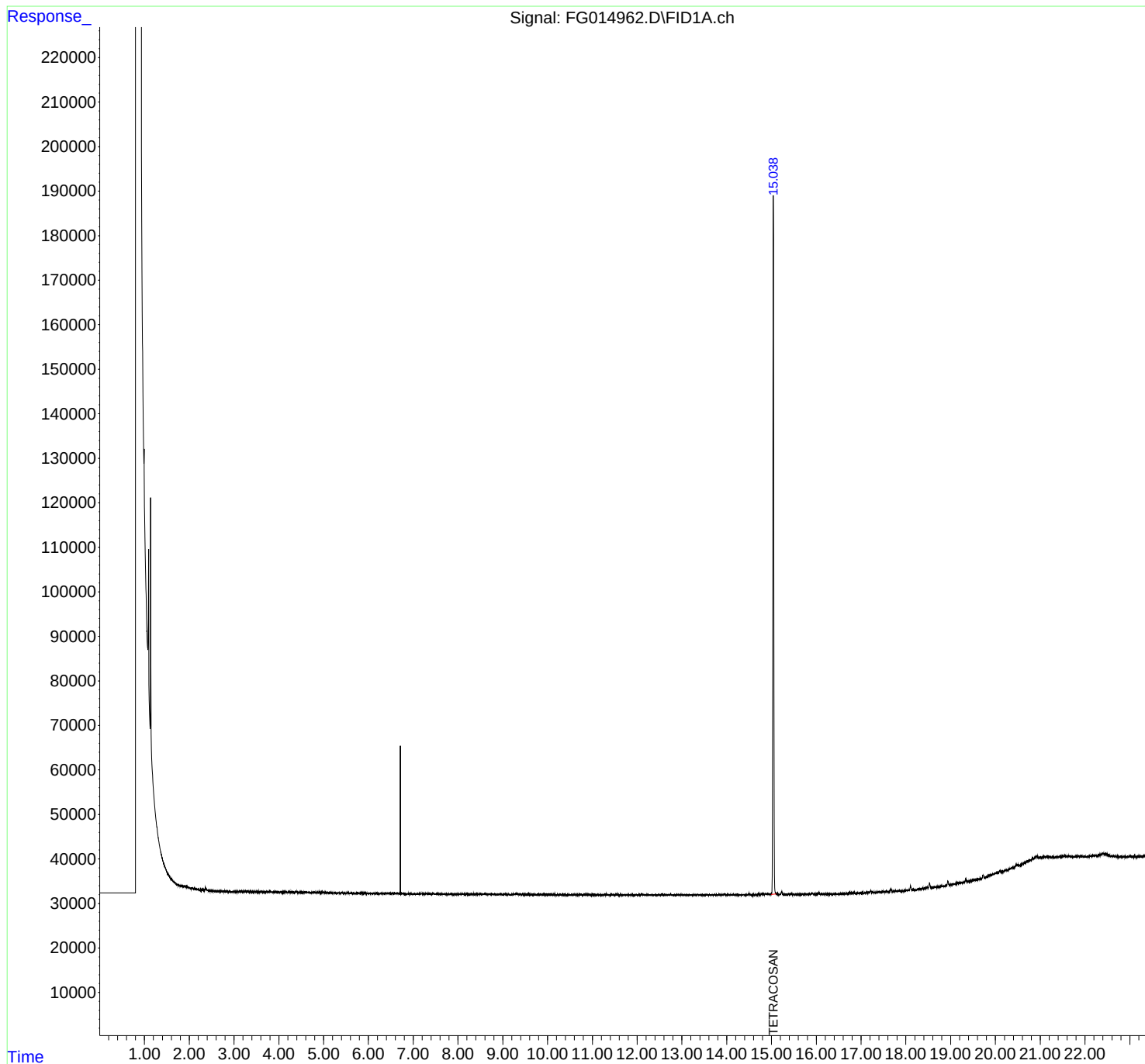
(m)=manual int.

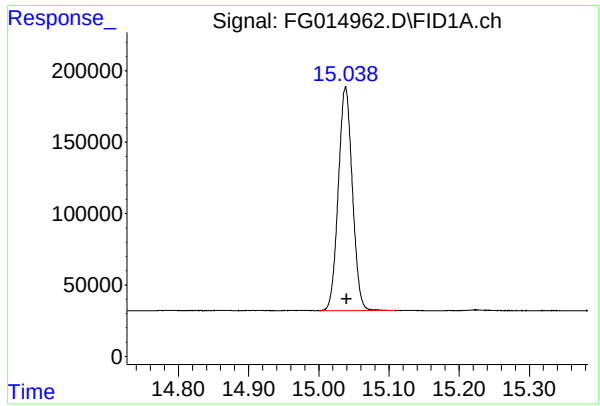
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014962.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 10:19
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 11 23:15:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.038 min

Delta R.T.: -0.001 min

Response: 2177155

Conc: 18.87 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014962.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 10:19
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.038	15.000	15.110	BBA	156292	2177155	100.00%	100.000%
Sum of corrected areas:						2177155		

FG112024.M Wed Dec 11 23:54:23 2024

Report of Analysis

Client:	JPCL Engineering	Date Collected:	12/11/24
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	12/11/24
Client Sample ID:	PIBLK-FG014969.D	SDG No.:	P5194
Lab Sample ID:	I.BLK-FG014969.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014969.D	1		12/11/24	FG121124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.6		29 - 130	88%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014969.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 14:18
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 11 23:18:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.053	2034846	17.633 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

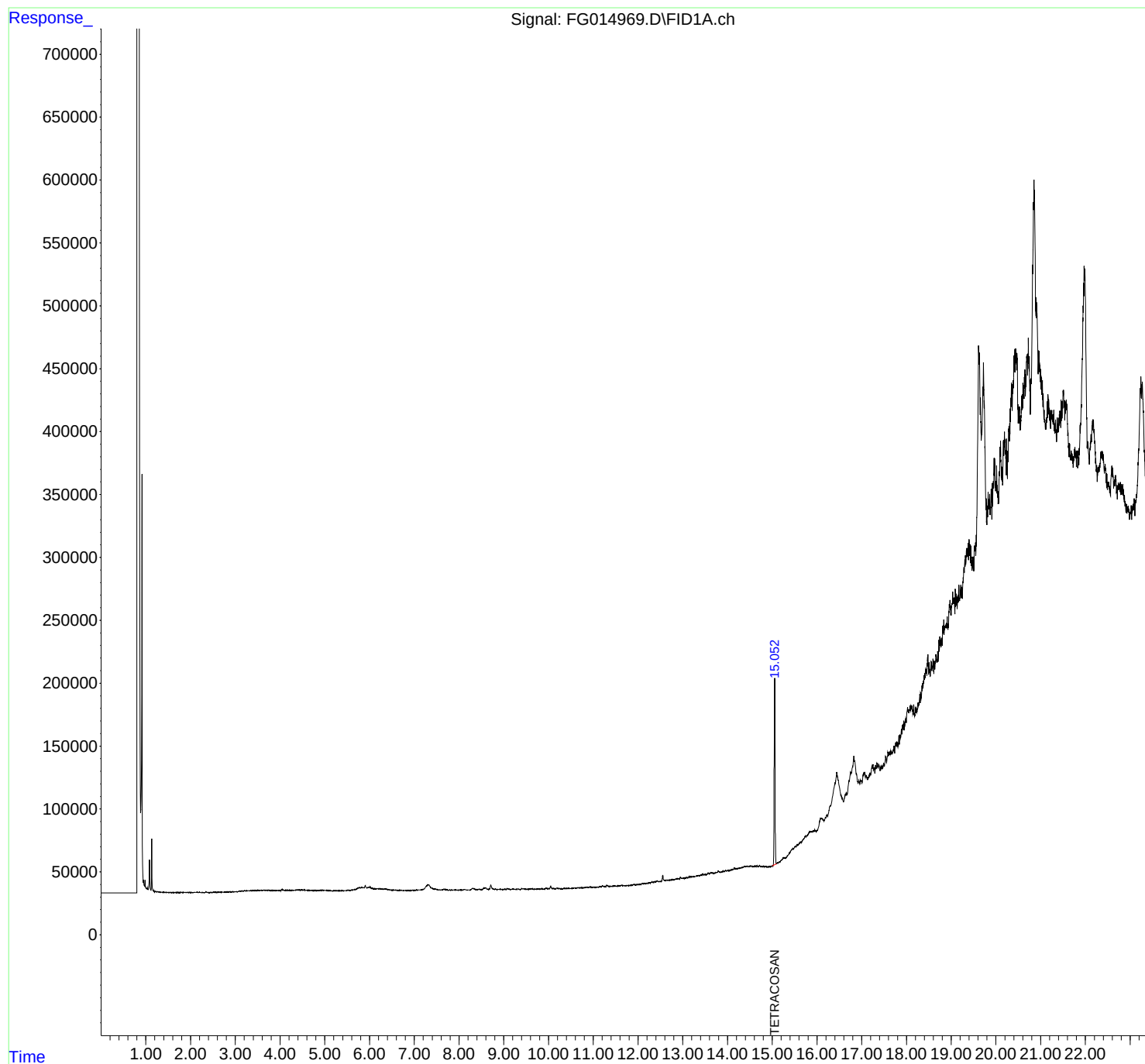
(m)=manual int.

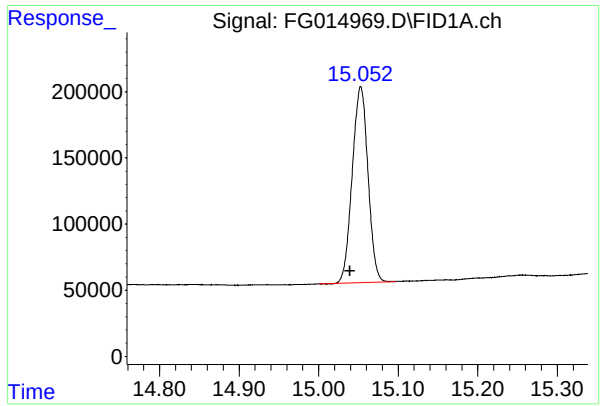
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014969.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 14:18
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 11 23:18:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.053 min
Delta R.T.: 0.013 min
Response: 2034846
Conc: 17.63 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014969.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 14:18
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.053	15.000	15.097	BV	148189	2034846	100.00%	100.000%
Sum of corrected areas:						2034846		

FG112024.M Wed Dec 11 23:57:27 2024

Report of Analysis

Client:	JPCL Engineering	Date Collected:	12/11/24
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	12/11/24
Client Sample ID:	PIBLK-FG014975.D	SDG No.:	P5194
Lab Sample ID:	I.BLK-FG014975.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014975.D	1		12/11/24	FG121124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.3		29 - 130	87%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014975.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 17:09
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 11 23:20:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.059	1999314	17.325 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

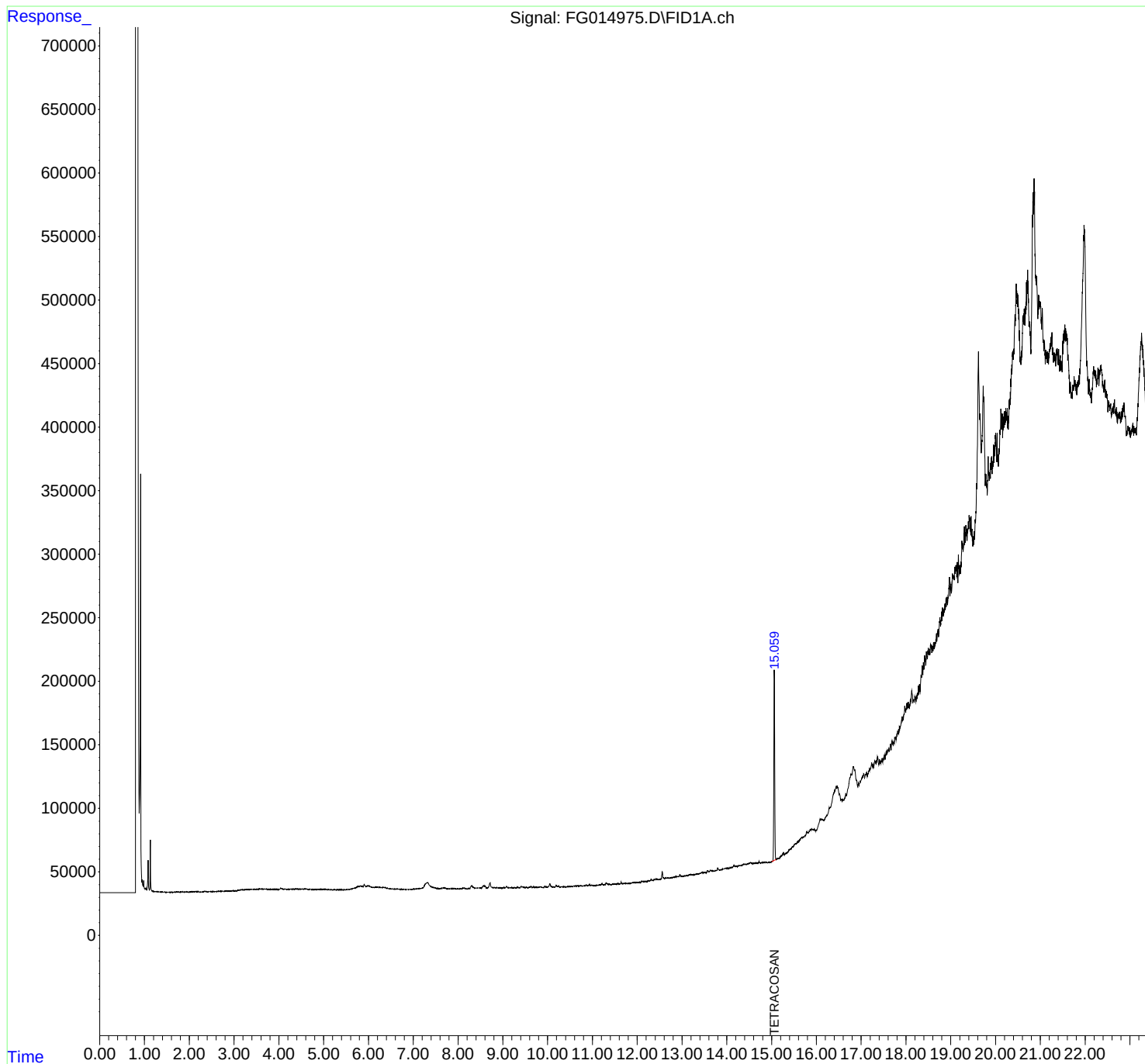
(m)=manual int.

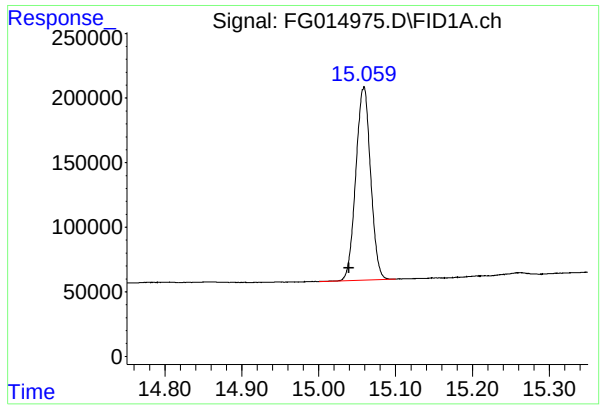
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014975.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 17:09
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 11 23:20:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.059 min
Delta R.T.: 0.019 min
Response: 1999314
Conc: 17.33 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014975.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 17:09
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.059	15.000	15.100	BV	149257	1999314	100.00%	100.000%
Sum of corrected areas:						1999314		

FG112024.M Thu Dec 12 00:02:31 2024

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	
Client Sample ID:	PB165556BS	SDG No.:	P5194
Lab Sample ID:	PB165556BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014972.D	1	12/11/24 09:15	12/11/24 15:44	PB165556

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5550		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	16.7		37 - 130	84%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
 Data File : FG014972.D
 Signal(s) : FID1A.ch
 Acq On : 11 Dec 2024 15:44
 Operator : YP\AJ
 Sample : PB165556BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB165556BS

Integration File: autoint1.e
 Quant Time: Dec 11 23:19:20 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
 Quant Title :
 QLast Update : Thu Nov 21 02:41:43 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.050	1927735	16.705 ug/ml
Target Compounds			
2) N-DECANE	4.568	2031914	15.227 ug/ml
3) N-DODECANE	6.741	2134300	15.512 ug/ml
4) N-TETRADECANE	8.574	2208919	16.569 ug/ml
5) N-HEXADECANE	10.187	2235021	16.606 ug/ml
6) N-OCTADECANE	11.634	2285300	16.646 ug/ml
7) N-EICOSANE	12.947	2307273	17.411 ug/ml
8) N-DOCOSANE	14.148	2214584	17.165 ug/ml
10) N-TETRACOSANE	15.253	2202553	17.392 ug/ml
11) N-HEXACOSANE	16.277	2118230	17.216 ug/ml
12) N-OCTACOSANE	17.228	2057397	17.006 ug/ml

(f)=RT Delta > 1/2 Window

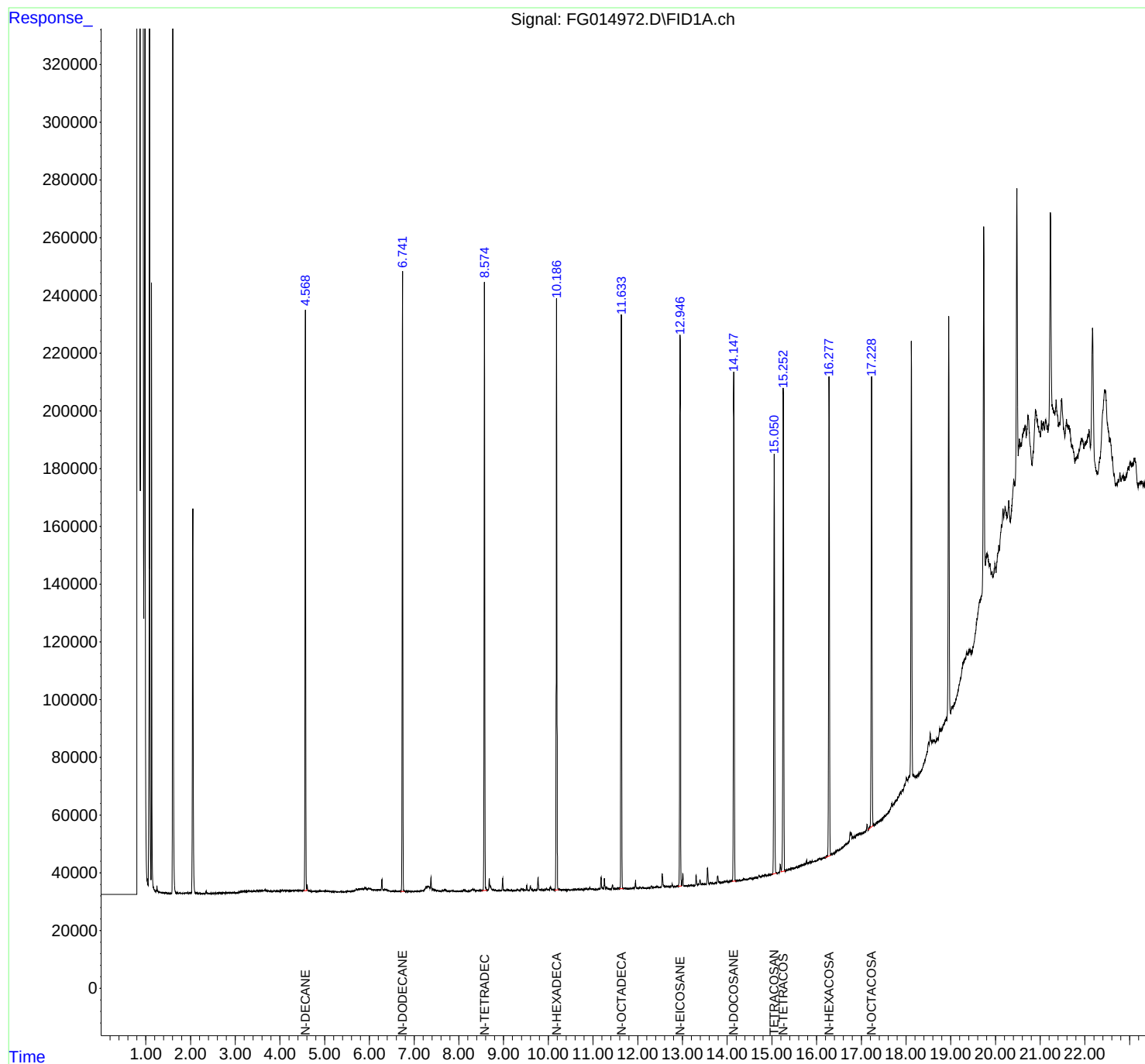
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014972.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 15:44
Operator : YP\AJ
Sample : PB165556BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB165556BS

Integration File: autoint1.e
Quant Time: Dec 11 23:19:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014972.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 15:44
Sample : PB165556BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.568	4.525	4.595	BV	201163	2031914	88.07%	8.565%
2	6.741	6.699	6.788	BB	214630	2134300	92.50%	8.997%
3	8.574	8.519	8.635	BB	210530	2208919	95.74%	9.311%
4	10.187	10.142	10.233	BB	204842	2235021	96.87%	9.421%
5	11.634	11.587	11.682	BB	198689	2285300	99.05%	9.633%
6	12.947	12.900	12.985	BV	190728	2307273	100.00%	9.726%
7	14.148	14.112	14.203	BB	175984	2214584	95.98%	9.335%
8	15.050	15.000	15.107	BB	145660	1927735	83.55%	8.126%
9	15.253	15.208	15.294	VB	166551	2202553	95.46%	9.284%
10	16.277	16.190	16.314	BV	166132	2118230	91.81%	8.929%
11	17.228	17.146	17.265	PV	155705	2057397	89.17%	8.672%
Sum of corrected areas:						23723224		

FG112024.M Thu Dec 12 00:02:01 2024

Report of Analysis

Client:	JPCL Engineering	Date Collected:	12/05/24
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	12/06/24
Client Sample ID:	UST-2MS	SDG No.:	P5194
Lab Sample ID:	P5194-02MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.2
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014973.D	1	12/11/24 09:15	12/11/24 16:12	PB165556

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	212000	E	202	1820	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.86		37 - 130	44%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
 Data File : FG014973.D
 Signal(s) : FID1A.ch
 Acq On : 11 Dec 2024 16:12
 Operator : YP\AJ
 Sample : P5194-02MS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :

FID_G

ClientSampleId :

UST-2MS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
 Quant Time: Dec 11 23:19:43 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
 Quant Title :
 QLast Update : Thu Nov 21 02:41:43 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.057	1022834	8.863 ug/mlm
Target Compounds			
2) N-DECANE	4.567	2092800	15.683 ug/ml
3) N-DODECANE	6.741	2189395	15.912 ug/ml
4) N-TETRADECANE	8.574	2284432	17.136 ug/ml
5) N-HEXADECANE	10.187	2284227	16.972 ug/ml
6) N-OCTADECANE	11.635	2256349	16.435 ug/mlm
7) N-EICOSANE	12.952	2176241	16.422 ug/mlm
8) N-DOCOSANE	14.153	2342207	18.154 ug/mlm
10) N-TETRACOSANE	15.261	2370346	18.717 ug/ml
11) N-HEXACOSANE	16.288	2334113	18.971 ug/ml
12) N-OCTACOSANE	17.245	3552632	29.365 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014973.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 16:12
Operator : YP\AJ
Sample : P5194-02MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :

FID_G

Client Sample Id :

UST-2MS

Manual Integrations

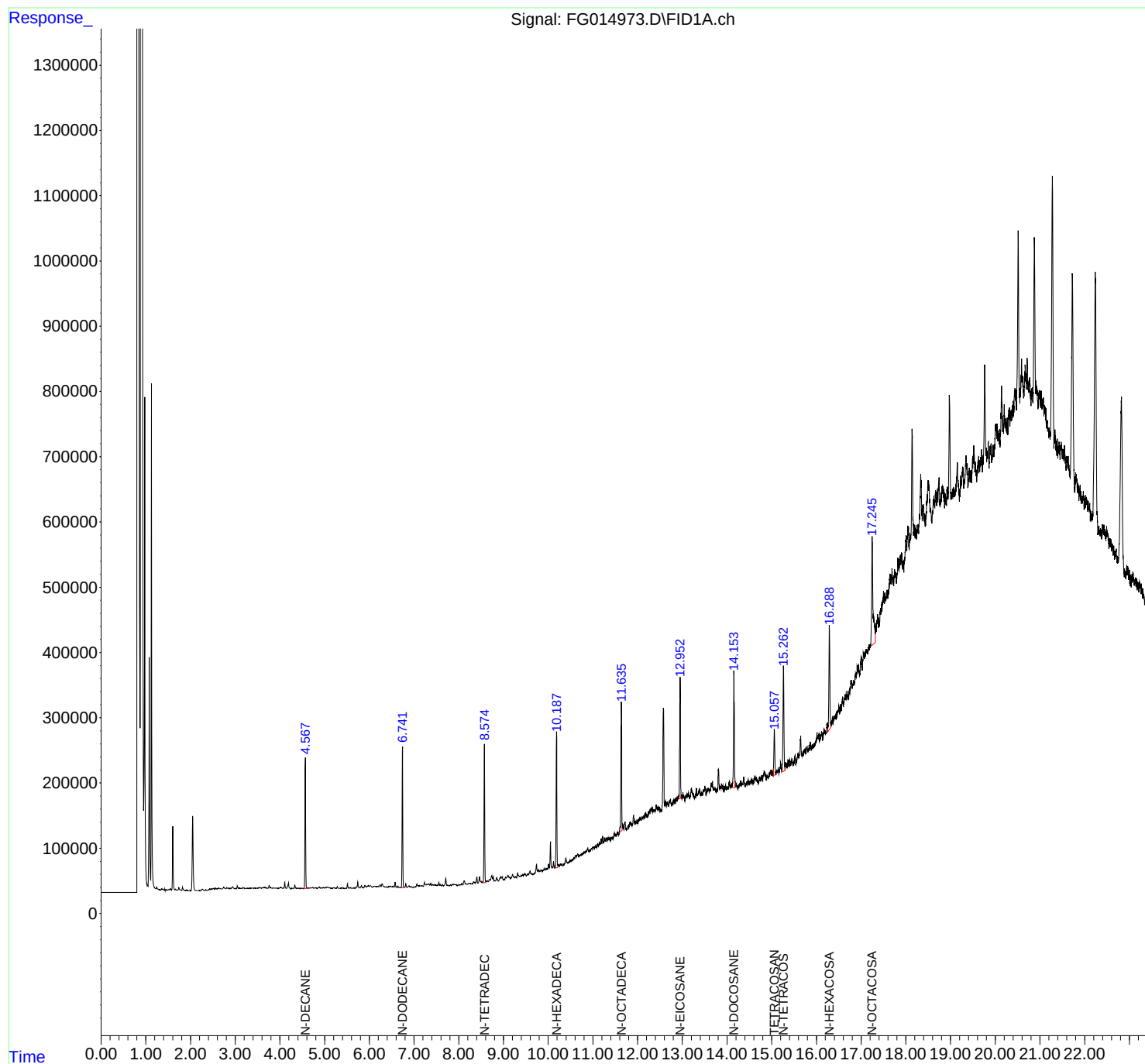
APPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
Quant Time: Dec 11 23:19:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Instrument :

FID_G

ClientSampleId :

UST-2MS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG12112
Data File : FG014973.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 16:12
Sample : P5194-02MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.429	4.400	4.447	BH	-59	-6928	-0.03%	-0.001%
2	4.475	4.447	4.501	PH	174	-6661	-0.02%	-0.001%
3	4.504	4.501	4.532	PH	-233	-8279	-0.03%	-0.001%
4	4.567	4.532	4.603	PH	200146	2067803	7.65%	0.271%
5	4.606	4.603	4.628	HH	859	5078	0.02%	0.001%
6	4.642	4.628	4.658	PH	878	7510	0.03%	0.001%
7	4.663	4.658	4.672	HH	177	541	0.00%	0.000%
8	4.688	4.672	4.712	PH	883	12231	0.05%	0.002%
9	4.736	4.712	4.781	HH	1403	22556	0.08%	0.003%
10	4.798	4.781	4.839	PH	1200	14042	0.05%	0.002%
11	4.880	4.839	4.906	PH	2285	35315	0.13%	0.005%
12	4.938	4.906	4.943	HH	897	14597	0.05%	0.002%
13	4.952	4.943	4.960	HH	932	8568	0.03%	0.001%
14	4.973	4.960	5.002	HH	1439	20659	0.08%	0.003%
15	5.016	5.002	5.023	HH	997	9095	0.03%	0.001%
16	5.044	5.023	5.054	HH	1617	24806	0.09%	0.003%
17	5.072	5.054	5.109	HH	2008	44318	0.16%	0.006%
18	5.117	5.109	5.135	HH	700	5556	0.02%	0.001%
19	5.147	5.135	5.166	PH	414	1307	0.00%	0.000%
20	5.185	5.166	5.190	PH	423	1667	0.01%	0.000%
21	5.206	5.190	5.239	HH	973	11253	0.04%	0.001%
22	5.252	5.239	5.266	PH	141	-1140	-0.00%	-0.000%
23	5.282	5.266	5.313	PH	2480	25333	0.09%	0.003%
24	5.326	5.313	5.343	PH	89	-1576	-0.01%	-0.000%
25	5.358	5.343	5.367	PH	-91	-2924	-0.01%	-0.000%
26	5.385	5.367	5.434	PH	1233	8362	0.03%	0.001%
27	5.449	5.434	5.467	PH	72	-3568	-0.01%	-0.000%
28	5.483	5.467	5.491	PH	-189	-3716	-0.01%	-0.000%
29	5.511	5.491	5.536	PH	7087	69581	0.26%	0.009%
30	5.551	5.536	5.565	HH	870	8075	0.03%	0.001%
31	5.583	5.565	5.619	HH	1281	10302	0.04%	0.001%
32	5.643	5.619	5.655	PH	272	1823	0.01%	0.000%
33	5.670	5.655	5.686	HH	344	3648	0.01%	0.000%
34	5.709	5.686	5.719	HH	2133	23362	0.09%	0.003%
35	5.741	5.719	5.774	HH	9373	123581	0.46%	0.016%
36	5.779	5.774	5.795	HH	950	9834	0.04%	0.001%

					retention			
37	5.823	5.795	5.876	HH	4096	87745	0.32%	0.012%
38	5.900	5.876	5.931	HH	4606	86970		
39	5.977	5.931	5.992	HH	4064	109046		
40	6.021	5.992	6.075	HH	4352	149279		
41	6.117	6.075	6.139	HH	3223	102086		
42	6.152	6.139	6.169	HH	2634	43169		
43	6.180	6.169	6.189	HH	2952	32518	0.12%	0.004%
44	6.193	6.189	6.223	HH	2854	50825	0.19%	0.007%
45	6.241	6.223	6.264	HH	5354	92407	0.34%	0.012%
46	6.288	6.264	6.317	HH	6708	151422	0.56%	0.020%
47	6.323	6.317	6.372	HH	3121	73298	0.27%	0.010%
48	6.395	6.372	6.414	HH	2233	48710	0.18%	0.006%
49	6.433	6.414	6.440	HH	2024	27475	0.10%	0.004%
50	6.455	6.440	6.460	HH	2994	31327	0.12%	0.004%
51	6.471	6.460	6.495	HH	3398	57253	0.21%	0.008%
52	6.533	6.495	6.554	HH	2847	83586	0.31%	0.011%
53	6.577	6.554	6.602	HH	9371	123738	0.46%	0.016%
54	6.626	6.602	6.645	HH	3244	60615	0.22%	0.008%
55	6.649	6.645	6.681	HH	1885	32349	0.12%	0.004%
56	6.693	6.681	6.712	HH	1210	19520	0.07%	0.003%
57	6.741	6.712	6.789	HH	217088	2232937	8.27%	0.293%
58	6.817	6.789	6.847	HH	6713	104803	0.39%	0.014%
59	6.891	6.847	6.907	HH	3694	91719	0.34%	0.012%
60	6.918	6.907	6.931	HH	2402	30952	0.11%	0.004%
61	6.943	6.931	6.988	HH	2348	60898	0.23%	0.008%
62	7.003	6.988	7.011	HH	1690	20717	0.08%	0.003%
63	7.029	7.011	7.041	HH	2208	35324	0.13%	0.005%
64	7.064	7.041	7.094	HH	6508	135724	0.50%	0.018%
65	7.112	7.094	7.117	HH	3626	48403	0.18%	0.006%
66	7.123	7.117	7.136	HH	3673	40441	0.15%	0.005%
67	7.150	7.136	7.163	HH	3873	58659	0.22%	0.008%
68	7.179	7.163	7.208	HH	4151	94716	0.35%	0.012%
69	7.232	7.208	7.269	HH	8603	213250	0.79%	0.028%
70	7.284	7.269	7.293	HH	5572	73478	0.27%	0.010%
71	7.320	7.293	7.349	HH	6576	200366	0.74%	0.026%
72	7.377	7.349	7.398	HH	7494	168406	0.62%	0.022%
73	7.412	7.398	7.423	HH	5786	80118	0.30%	0.011%
74	7.436	7.423	7.451	HH	5337	82672	0.31%	0.011%
75	7.471	7.451	7.504	HH	5227	151618	0.56%	0.020%
76	7.517	7.504	7.528	HH	4808	65166	0.24%	0.009%
77	7.556	7.528	7.573	HH	9063	165756	0.61%	0.022%
78	7.589	7.573	7.621	HH	5460	128362	0.48%	0.017%
79	7.638	7.621	7.659	HH	5658	104774	0.39%	0.014%
80	7.711	7.659	7.737	HH	15122	333682	1.24%	0.044%
81	7.748	7.737	7.798	HH	4967	160257	0.59%	0.021%
82	7.819	7.798	7.833	HH	5219	95862	0.35%	0.013%
83	7.871	7.833	7.891	HH	6272	183784	0.68%	0.024%
84	7.917	7.891	7.969	HH	6019	240666	0.89%	0.032%
85	8.000	7.969	8.016	HH	5161	132678	0.49%	0.017%
86	8.038	8.016	8.045	HH	5519	90401	0.33%	0.012%
87	8.070	8.045	8.093	HH	7728	177800	0.66%	0.023%
88	8.124	8.093	8.148	HH	11494	291782	1.08%	0.038%
89	8.163	8.148	8.186	HH	7104	151994	0.56%	0.020%

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90	8.226	8.186	8.236	HH	7367	201395	0.75%	0.026%
91	8.251	8.236	8.287	HH	7728	215975		
92	8.305	8.287	8.311	HH	7008	100966		
93	8.333	8.311	8.359	HH	9864	250207		
94	8.371	8.359	8.381	HH	9089	113481		
95	8.406	8.381	8.428	HH	17225	337440		
96	8.466	8.428	8.491	HH	17567	440745	1.63%	0.058%
97	8.500	8.491	8.519	HH	10478	160320	0.59%	0.021%
98	8.532	8.519	8.542	HH	9910	127530	0.47%	0.017%
99	8.574	8.542	8.601	HH	221115	2587120	9.58%	0.339%
100	8.612	8.601	8.625	HH	11164	153332	0.57%	0.020%
101	8.643	8.625	8.663	HH	11086	241265	0.89%	0.032%
102	8.687	8.663	8.696	HH	13140	239024	0.88%	0.031%
103	8.701	8.696	8.707	HH	12954	85424	0.32%	0.011%
104	8.740	8.707	8.759	HH	19280	498671	1.85%	0.065%
105	8.772	8.759	8.793	HH	17762	297591	1.10%	0.039%
106	8.807	8.793	8.822	HH	12196	200148	0.74%	0.026%
107	8.850	8.822	8.885	HH	16394	497301	1.84%	0.065%
108	8.924	8.885	8.931	HH	15827	368388	1.36%	0.048%
109	8.945	8.931	8.961	HH	18398	303509	1.12%	0.040%
110	8.977	8.961	8.997	HH	17310	332407	1.23%	0.044%
111	9.006	8.997	9.019	HH	13510	180697	0.67%	0.024%
112	9.047	9.019	9.060	HH	17119	368669	1.36%	0.048%
113	9.104	9.060	9.133	HH	19653	768158	2.84%	0.101%
114	9.140	9.133	9.159	HH	17044	247870	0.92%	0.033%
115	9.206	9.159	9.248	HH	21406	940539	3.48%	0.123%
116	9.253	9.248	9.258	HH	16295	101739	0.38%	0.013%
117	9.278	9.258	9.295	HH	18247	380964	1.41%	0.050%
118	9.317	9.295	9.336	HH	23175	488735	1.81%	0.064%
119	9.340	9.336	9.356	HH	19842	232509	0.86%	0.030%
120	9.372	9.356	9.385	HH	18857	313252	1.16%	0.041%
121	9.399	9.385	9.417	HH	19516	361511	1.34%	0.047%
122	9.432	9.417	9.452	HH	21760	426841	1.58%	0.056%
123	9.479	9.452	9.517	HH	22035	809656	3.00%	0.106%
124	9.538	9.517	9.564	HH	21736	584033	2.16%	0.077%
125	9.595	9.564	9.629	HH	26628	912743	3.38%	0.120%
126	9.638	9.629	9.653	HH	22026	316045	1.17%	0.041%
127	9.666	9.653	9.674	HH	22125	269655	1.00%	0.035%
128	9.738	9.674	9.764	HH	35938	1432610	5.30%	0.188%
129	9.773	9.764	9.777	HH	26778	208812	0.77%	0.027%
130	9.789	9.777	9.807	HH	27382	480761	1.78%	0.063%
131	9.819	9.807	9.829	HH	26467	352074	1.30%	0.046%
132	9.840	9.829	9.864	HH	28084	566714	2.10%	0.074%
133	9.878	9.864	9.886	HH	27658	350846	1.30%	0.046%
134	9.910	9.886	9.931	HH	30449	771257	2.85%	0.101%
135	9.964	9.931	9.983	HH	30211	919131	3.40%	0.121%
136	10.008	9.983	10.026	HH	36661	841539	3.11%	0.110%
137	10.053	10.026	10.087	HH	71103	1548732	5.73%	0.203%
138	10.121	10.087	10.146	HH	40982	1208890	4.47%	0.159%
139	10.187	10.146	10.213	HH	239742	3542799	13.11%	0.465%
140	10.223	10.213	10.235	HH	35604	477387	1.77%	0.063%
141	10.242	10.235	10.253	HH	35748	387861	1.44%	0.051%

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142	10.272	10.253	10.288	HH	37033	734253	2.72%	0.096%
143	10.310	10.288	10.327	HH	37228	850155		
144	10.349	10.327	10.359	HH	37148	696104		
145	10.397	10.359	10.432	HH	46539	1778371		
146	10.437	10.432	10.442	HH	39185	240768		
147	10.468	10.442	10.475	HH	40706	783916		
148	10.492	10.475	10.513	HH	43420	959789	3.55%	0.126%
149	10.525	10.513	10.532	HH	43200	466088	1.73%	0.061%
150	10.539	10.532	10.548	HH	43401	426815	1.58%	0.056%
151	10.572	10.548	10.594	HH	46498	1244463	4.61%	0.163%
152	10.626	10.594	10.637	HH	50458	1258599	4.66%	0.165%
153	10.664	10.637	10.685	HH	52025	1448458	5.36%	0.190%
154	10.706	10.685	10.710	HH	50197	742565	2.75%	0.097%
155	10.715	10.710	10.723	HH	50859	380889	1.41%	0.050%
156	10.729	10.723	10.739	HH	51483	497559	1.84%	0.065%
157	10.750	10.739	10.760	HH	52255	657398	2.43%	0.086%
158	10.776	10.760	10.786	HH	54075	837234	3.10%	0.110%
159	10.804	10.786	10.818	HH	56277	1051480	3.89%	0.138%
160	10.832	10.818	10.837	HH	56261	630410	2.33%	0.083%
161	10.855	10.837	10.864	HH	57165	907268	3.36%	0.119%
162	10.884	10.864	10.913	HH	61701	1698165	6.29%	0.223%
163	10.932	10.913	10.950	HH	59203	1296154	4.80%	0.170%
164	10.974	10.950	10.980	HH	61657	1083048	4.01%	0.142%
165	11.011	10.980	11.036	HH	63749	2066032	7.65%	0.271%
166	11.064	11.036	11.083	HH	65829	1797287	6.65%	0.236%
167	11.102	11.083	11.112	HH	67146	1120301	4.15%	0.147%
168	11.116	11.112	11.137	HH	67008	988198	3.66%	0.130%
169	11.148	11.137	11.166	HH	69753	1206793	4.47%	0.158%
170	11.185	11.166	11.201	HH	75805	1484853	5.50%	0.195%
171	11.218	11.201	11.235	HH	79068	1532172	5.67%	0.201%
172	11.258	11.235	11.277	HH	76856	1833569	6.79%	0.240%
173	11.282	11.277	11.290	HH	74025	582879	2.16%	0.076%
174	11.312	11.290	11.331	HH	77203	1837251	6.80%	0.241%
175	11.362	11.331	11.369	HH	76664	1720928	6.37%	0.226%
176	11.378	11.369	11.387	HH	76381	804838	2.98%	0.106%
177	11.392	11.387	11.403	HH	75408	709368	2.63%	0.093%
178	11.429	11.403	11.439	HH	77864	1691689	6.26%	0.222%
179	11.444	11.439	11.450	HH	77580	494370	1.83%	0.065%
180	11.473	11.450	11.479	HH	83218	1382718	5.12%	0.181%
181	11.485	11.479	11.493	HH	83602	714591	2.65%	0.094%
182	11.500	11.493	11.518	HH	82355	1175723	4.35%	0.154%
183	11.545	11.518	11.558	HH	85135	2019039	7.47%	0.265%
184	11.574	11.558	11.586	HH	84587	1386542	5.13%	0.182%
185	11.608	11.586	11.612	HH	93464	1424935	5.27%	0.187%
186	11.636	11.612	11.659	HH	284710	4669198	17.28%	0.612%
187	11.668	11.659	11.690	HH	97879	1740434	6.44%	0.228%
188	11.717	11.690	11.745	HH	101097	3135253	11.61%	0.411%
189	11.750	11.745	11.757	HH	92007	635551	2.35%	0.083%
190	11.793	11.757	11.802	HH	96316	2521240	9.33%	0.331%
191	11.831	11.802	11.871	HH	100364	4074447	15.08%	0.534%
192	11.878	11.871	11.885	HH	98443	825326	3.05%	0.108%
193	11.910	11.885	11.943	HH	111430	3546325	13.13%	0.465%
194	11.951	11.943	11.959	HH	101978	1008983	3.73%	0.132%

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195	11.964	11.959	11.974	HH	101699	910039	3.37%	0.119%
196	11.979	11.974	11.993	HH	101712	1162034		
197	12.019	11.993	12.024	HH	105947	1897261		
198	12.032	12.024	12.040	HH	106311	996883		
199	12.058	12.040	12.081	HH	108687	2602013		
200	12.092	12.081	12.110	HH	109131	1875227		
201	12.130	12.110	12.151	HH	110527	2641206	9.78%	0.346%
202	12.176	12.151	12.199	HH	114159	3254967	12.05%	0.427%
203	12.211	12.199	12.223	HH	112420	1614582	5.98%	0.212%
204	12.253	12.223	12.261	HH	118103	2567280	9.50%	0.337%
205	12.266	12.261	12.273	HH	117860	817336	3.03%	0.107%
206	12.297	12.273	12.314	HH	122547	2991599	11.07%	0.392%
207	12.335	12.314	12.345	HH	123647	2228897	8.25%	0.292%
208	12.351	12.345	12.360	HH	119298	1065865	3.95%	0.140%
209	12.369	12.360	12.375	HH	120186	1087655	4.03%	0.143%
210	12.380	12.375	12.400	HH	120161	1773728	6.57%	0.233%
211	12.417	12.400	12.438	HH	128244	2839823	10.51%	0.372%
212	12.443	12.438	12.454	HH	122957	1133953	4.20%	0.149%
213	12.460	12.454	12.466	HH	121386	866870	3.21%	0.114%
214	12.475	12.466	12.481	HH	124729	1134297	4.20%	0.149%
215	12.485	12.481	12.511	HH	123830	2174657	8.05%	0.285%
216	12.524	12.511	12.543	HH	120554	2270773	8.41%	0.298%
217	12.578	12.543	12.610	HH	275726	7011874	25.95%	0.920%
218	12.619	12.610	12.639	HH	133331	2297998	8.51%	0.301%
219	12.644	12.639	12.650	HH	130263	840005	3.11%	0.110%
220	12.668	12.650	12.691	HH	132577	3170614	11.74%	0.416%
221	12.736	12.691	12.757	HH	136190	5228777	19.35%	0.686%
222	12.807	12.757	12.813	HH	135988	4325262	16.01%	0.567%
223	12.824	12.813	12.838	HH	135652	2066769	7.65%	0.271%
224	12.860	12.838	12.874	HH	138586	2910757	10.77%	0.382%
225	12.881	12.874	12.887	HH	135759	1009927	3.74%	0.132%
226	12.897	12.887	12.903	HH	140141	1375405	5.09%	0.180%
227	12.951	12.903	12.993	HH	322759	9650390	35.72%	1.266%
228	13.013	12.993	13.025	HH	146506	2699273	9.99%	0.354%
229	13.030	13.025	13.057	HH	143148	2629242	9.73%	0.345%
230	13.080	13.057	13.088	HH	142164	2635491	9.76%	0.346%
231	13.090	13.088	13.101	HH	141931	1094095	4.05%	0.143%
232	13.113	13.101	13.130	HH	143314	2457111	9.10%	0.322%
233	13.138	13.130	13.158	HH	146548	2408653	8.92%	0.316%
234	13.165	13.158	13.172	HH	141646	1118458	4.14%	0.147%
235	13.204	13.172	13.241	HH	153703	6082972	22.52%	0.798%
236	13.245	13.241	13.255	HH	145301	1200985	4.45%	0.157%
237	13.259	13.255	13.268	HH	140790	1098687	4.07%	0.144%
238	13.278	13.268	13.285	HH	140871	1411571	5.22%	0.185%
239	13.309	13.285	13.330	HH	152436	3948746	14.62%	0.518%
240	13.334	13.330	13.341	HH	143750	929295	3.44%	0.122%
241	13.347	13.341	13.351	HH	144918	892619	3.30%	0.117%
242	13.368	13.351	13.373	HH	148279	1946920	7.21%	0.255%
243	13.385	13.373	13.408	HH	151331	3017919	11.17%	0.396%
244	13.426	13.408	13.431	HH	146145	2012754	7.45%	0.264%
245	13.435	13.431	13.438	HH	144766	648903	2.40%	0.085%
246	13.442	13.438	13.447	HH	145094	780957	2.89%	0.102%

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247	13.473	13.447	13.481	HH	150859	2948544	10.91%	0.387%
248	13.483	13.481	13.489	HH	151201	700227		
249	13.504	13.489	13.516	HH	156426	2475226		
250	13.520	13.516	13.531	HH	151493	1329781		
251	13.554	13.531	13.560	HH	151206	2593559		
252	13.564	13.560	13.569	HH	149828	812850		
253	13.577	13.569	13.584	HH	151905	1369252	5.07%	0.180%
254	13.594	13.584	13.603	HH	152261	1726464	6.39%	0.226%
255	13.622	13.603	13.630	HH	152548	2396914	8.87%	0.314%
256	13.645	13.630	13.655	HH	161492	2386247	8.83%	0.313%
257	13.673	13.655	13.702	HH	163719	4338093	16.06%	0.569%
258	13.712	13.702	13.724	HH	153971	2054220	7.60%	0.269%
259	13.737	13.724	13.753	HH	153245	2592123	9.59%	0.340%
260	13.757	13.753	13.770	HH	148981	1541309	5.71%	0.202%
261	13.777	13.770	13.785	HH	150909	1386608	5.13%	0.182%
262	13.807	13.785	13.830	HH	182340	4420133	16.36%	0.580%
263	13.840	13.830	13.868	HH	155895	3475725	12.87%	0.456%
264	13.878	13.868	13.897	HH	159179	2787611	10.32%	0.366%
265	13.906	13.897	13.924	HH	156956	2486709	9.20%	0.326%
266	13.941	13.924	13.952	HH	156278	2525754	9.35%	0.331%
267	13.968	13.952	13.984	HH	158761	2980373	11.03%	0.391%
268	14.005	13.984	14.022	HH	155595	3475900	12.87%	0.456%
269	14.025	14.022	14.032	HH	152789	914949	3.39%	0.120%
270	14.052	14.032	14.084	HH	163923	4972437	18.41%	0.652%
271	14.090	14.084	14.096	HH	157361	1095908	4.06%	0.144%
272	14.108	14.096	14.121	HH	160816	2363082	8.75%	0.310%
273	14.153	14.121	14.195	HH	332141	9237141	34.19%	1.211%
274	14.212	14.195	14.233	HH	160817	3542809	13.11%	0.465%
275	14.239	14.233	14.245	HH	157351	1163667	4.31%	0.153%
276	14.259	14.245	14.266	HH	156526	1955361	7.24%	0.256%
277	14.272	14.266	14.286	HH	159526	1875574	6.94%	0.246%
278	14.298	14.286	14.304	HH	163125	1723367	6.38%	0.226%
279	14.308	14.304	14.331	HH	164850	2613809	9.68%	0.343%
280	14.340	14.331	14.355	HH	160060	2330900	8.63%	0.306%
281	14.371	14.355	14.395	HH	170905	3937402	14.57%	0.516%
282	14.407	14.395	14.415	HH	159541	1934109	7.16%	0.254%
283	14.425	14.415	14.430	HH	161198	1428994	5.29%	0.187%
284	14.440	14.430	14.449	HH	162729	1767644	6.54%	0.232%
285	14.472	14.449	14.494	HH	166981	4403088	16.30%	0.577%
286	14.499	14.494	14.505	HH	160355	1096779	4.06%	0.144%
287	14.512	14.505	14.518	HH	164098	1242974	4.60%	0.163%
288	14.523	14.518	14.532	HH	165040	1338458	4.95%	0.176%
289	14.546	14.532	14.572	HH	167183	3975232	14.71%	0.521%
290	14.578	14.572	14.596	HH	164949	2324878	8.61%	0.305%
291	14.621	14.596	14.640	HH	171233	4374048	16.19%	0.574%
292	14.652	14.640	14.659	HH	168969	1913192	7.08%	0.251%
293	14.661	14.659	14.682	HH	169733	2342112	8.67%	0.307%
294	14.687	14.682	14.704	HH	165243	2061720	7.63%	0.270%
295	14.732	14.704	14.739	HH	171319	3520289	13.03%	0.462%
296	14.788	14.739	14.800	HH	172743	6185645	22.90%	0.811%
297	14.830	14.800	14.860	HH	179188	6302076	23.33%	0.826%
298	14.864	14.860	14.885	HH	173822	2525949	9.35%	0.331%
299	14.902	14.885	14.907	HH	172518	2243061	8.30%	0.294%

Instrument :

FID_G

ClientSampleId :

UST-2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

					rters			
300	14.915	14.907	14.924	HH	171661	1742148	6.45%	0.228%
301	14.940	14.924	14.951	HH	176011	2829983	10.25%	0.228%
302	14.980	14.951	14.992	HH	181687	4289299	15.25%	0.228%
303	15.012	14.992	15.024	HH	179475	3404273	12.25%	0.228%
304	15.057	15.024	15.095	HH	242991	8496786	31.25%	0.228%
305	15.113	15.095	15.124	HH	180424	3030388	11.25%	0.228%
306	15.127	15.124	15.133	HH	180138	990971	3.67%	0.130%
307	15.142	15.133	15.161	HH	185068	3037955	11.25%	0.398%
308	15.198	15.161	15.225	HH	193637	7115869	26.34%	0.933%
309	15.261	15.225	15.297	HH	341515	10026481	37.11%	1.315%
310	15.306	15.297	15.322	HH	193371	2855388	10.57%	0.374%
311	15.331	15.322	15.349	HH	191135	3065281	11.35%	0.402%
312	15.363	15.349	15.383	HH	195867	3894911	14.42%	0.511%
313	15.399	15.383	15.411	HH	197424	3268015	12.10%	0.429%
314	15.437	15.411	15.442	HH	195640	3523277	13.04%	0.462%
315	15.451	15.442	15.482	HH	196606	4641768	17.18%	0.609%
316	15.494	15.482	15.499	HH	194580	1927055	7.13%	0.253%
317	15.520	15.499	15.538	HH	201717	4576482	16.94%	0.600%
318	15.559	15.538	15.565	HH	199671	3184086	11.79%	0.418%
319	15.580	15.565	15.605	HH	206439	4879374	18.06%	0.640%
320	15.646	15.605	15.679	HH	231988	9327914	34.53%	1.223%
321	15.690	15.679	15.696	HH	206117	2061742	7.63%	0.270%
322	15.707	15.696	15.713	HH	208607	2122848	7.86%	0.278%
323	15.734	15.713	15.768	HH	213574	6997989	25.90%	0.918%
324	15.780	15.768	15.811	HH	216723	5464570	20.23%	0.717%
325	15.835	15.811	15.844	HH	217546	4221170	15.62%	0.554%
326	15.862	15.844	15.882	HH	224306	5002160	18.52%	0.656%
327	15.891	15.882	15.897	HH	216034	1932274	7.15%	0.253%
328	15.907	15.897	15.920	HH	219518	3020376	11.18%	0.396%
329	15.926	15.920	15.929	HH	218082	1085588	4.02%	0.142%
330	15.938	15.929	15.943	HH	218922	1856822	6.87%	0.244%
331	15.951	15.943	15.957	HH	221947	1906638	7.06%	0.250%
332	16.012	15.957	16.032	HH	238454	10138353	37.53%	1.330%
333	16.037	16.032	16.044	HH	233729	1655678	6.13%	0.217%
334	16.053	16.044	16.071	HH	236422	3777033	13.98%	0.495%
335	16.113	16.071	16.119	HH	239838	6704235	24.82%	0.879%
336	16.123	16.119	16.138	HH	237612	2661521	9.85%	0.349%
337	16.172	16.138	16.182	HH	244641	6272566	23.22%	0.823%
338	16.188	16.182	16.195	HH	240449	1751659	6.48%	0.230%
339	16.198	16.195	16.206	HH	240854	1603017	5.93%	0.210%
340	16.210	16.206	16.218	HH	239626	1802182	6.67%	0.236%
341	16.241	16.218	16.250	HH	253209	4724744	17.49%	0.620%
342	16.287	16.250	16.330	HH	402777	14000611	51.82%	1.836%
343	16.357	16.330	16.372	HH	261643	6376308	23.60%	0.836%
344	16.399	16.372	16.406	HH	264074	5325897	19.71%	0.698%
345	16.412	16.406	16.419	HH	262956	1972969	7.30%	0.259%
346	16.427	16.419	16.441	HH	265966	3597773	13.32%	0.472%
347	16.454	16.441	16.461	HH	270033	3131796	11.59%	0.411%
348	16.478	16.461	16.489	HH	271495	4464255	16.52%	0.585%
349	16.499	16.489	16.525	HH	280191	6032281	22.33%	0.791%
350	16.541	16.525	16.555	HH	281462	4946967	18.31%	0.649%
351	16.586	16.555	16.601	HH	291902	7695414	28.48%	1.009%

Instrument :

FID_G

ClientSampleId :

UST-2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

Parameters									
352	16.635	16.601	16.642	HH	295616	7158017	26.50%	0.939%	
353	16.649	16.642	16.658	HH	293803	2860317	10.00%	0.000%	
354	16.682	16.658	16.687	HH	301501	5084398	18.00%	0.000%	
355	16.691	16.687	16.698	HH	297476	1892162	7.00%	0.000%	
356	16.706	16.698	16.716	HH	295353	3282365	12.00%	0.000%	
357	16.739	16.716	16.746	HH	303114	5236774	19.00%	0.000%	
358	16.755	16.746	16.762	HH	307531	2995757	11.09%	0.393%	
359	16.780	16.762	16.804	HH	318052	7812606	28.92%	1.025%	
360	16.826	16.804	16.832	HH	318015	5229389	19.36%	0.686%	
361	16.842	16.832	16.847	HH	315319	2830393	10.48%	0.371%	
362	16.876	16.847	16.889	HH	328263	8256993	30.56%	1.083%	
363	16.911	16.889	16.920	HH	339532	6135753	22.71%	0.805%	
364	16.928	16.920	16.933	HH	338479	2649265	9.81%	0.347%	
365	16.944	16.933	16.961	HH	343554	5517661	20.42%	0.724%	
366	17.002	16.961	17.024	HH	351566	12849147	47.56%	1.685%	
367	17.048	17.024	17.067	HH	361787	9136005	33.82%	1.198%	
368	17.074	17.067	17.080	HH	356467	2811421	10.41%	0.369%	
369	17.090	17.080	17.097	HH	363317	3636980	13.46%	0.477%	
370	17.106	17.097	17.112	HH	364969	3223520	11.93%	0.423%	
371	17.118	17.112	17.137	HH	366257	5387372	19.94%	0.707%	
372	17.146	17.137	17.152	HH	364535	3275785	12.13%	0.430%	
373	17.157	17.152	17.161	HH	368664	1992922	7.38%	0.261%	
374	17.173	17.161	17.203	HH	372259	9325306	34.52%	1.223%	
375	17.207	17.203	17.212	HH	374104	2030137	7.51%	0.266%	
376	17.246	17.212	17.317	HH	538418	27015718	100.00%	3.543%	
377	17.330	17.317	17.338	HH	405536	5034756	18.64%	0.660%	
378	17.368	17.338	17.384	HH	418132	11250908	41.65%	1.475%	
379	17.392	17.384	17.400	HHA	414686	4273577	15.82%	0.560%	
Sum of corrected areas:					762533749				

Instrument :
FID_G
ClientSampleId :
UST-2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

FG112024.M Thu Dec 12 00:17:33 2024

Report of Analysis

Client:	JPCL Engineering	Date Collected:	12/05/24
Project:	1454 to 1460 Haddon Avenue, Camden, NJ	Date Received:	12/06/24
Client Sample ID:	UST-2MSD	SDG No.:	P5194
Lab Sample ID:	P5194-02MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.2
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014974.D	1	12/11/24 09:15	12/11/24 16:41	PB165556

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	234000	E	202	1820	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.75		37 - 130	44%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
 Data File : FG014974.D
 Signal(s) : FID1A.ch
 Acq On : 11 Dec 2024 16:41
 Operator : YP\AJ
 Sample : P5194-02MSD
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

FID_G

ClientSampleId :

UST-2MSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
 Quant Time: Dec 11 23:20:05 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
 Quant Title :
 QLast Update : Thu Nov 21 02:41:43 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.060	1009706	8.750 ug/ml
Target Compounds			
2) N-DECANE	4.570	2084637	15.622 ug/ml
3) N-DODECANE	6.744	2192546	15.935 ug/ml
4) N-TETRADECANE	8.578	2304828	17.289 ug/ml
5) N-HEXADECANE	10.192	2321578	17.249 ug/ml
6) N-OCTADECANE	11.639	2339610	17.042 ug/mlm
7) N-EICOSANE	12.955	2361932	17.823 ug/mlm
8) N-DOCOSANE	14.157	2405809	18.647 ug/mlm
10) N-TETRACOSANE	15.267	2301808	18.176 ug/ml
11) N-HEXACOSANE	16.293	2020382	16.421 ug/mlm
12) N-OCTACOSANE	17.251	2649092	21.897 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121124\
Data File : FG014974.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 16:41
Operator : YP\AJ
Sample : P5194-02MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :

FID_G

Client SampleId :

UST-2MSD

Manual Integrations

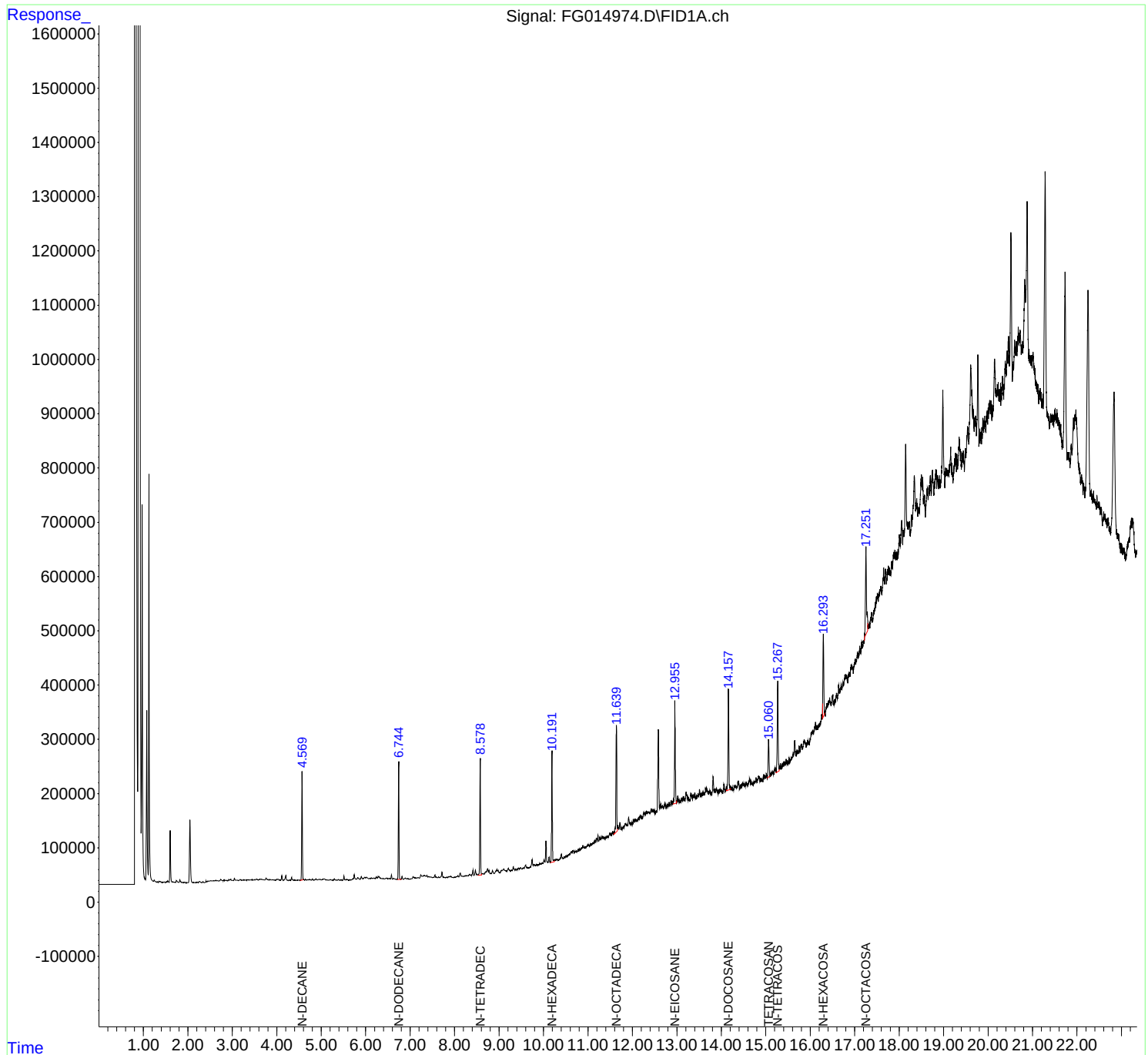
APPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Integration File: autoint1.e
Quant Time: Dec 11 23:20:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Quant Title :
QLast Update : Thu Nov 21 02:41:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Instrument :

FID_G

ClientSampleId :

UST-2MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG12112
Data File : FG014974.D
Signal(s) : FID1A.ch
Acq On : 11 Dec 2024 16:41
Sample : P5194-02MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG112024.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.431	4.400	4.454	BH	14	-9206	-0.05%	-0.001%
2	4.475	4.454	4.499	PH	216	-4127	-0.02%	-0.000%
3	4.510	4.499	4.532	PH	-210	-8223	-0.04%	-0.001%
4	4.570	4.532	4.599	PH	200186	2087367	11.27%	0.248%
5	4.608	4.599	4.630	HH	896	8013	0.04%	0.001%
6	4.644	4.630	4.674	PH	918	7898	0.04%	0.001%
7	4.697	4.674	4.716	PH	714	11053	0.06%	0.001%
8	4.737	4.716	4.782	HH	1459	23148	0.13%	0.003%
9	4.801	4.782	4.824	PH	1278	13032	0.07%	0.002%
10	4.834	4.824	4.843	HH	209	1560	0.01%	0.000%
11	4.882	4.843	4.916	PH	2488	39496	0.21%	0.005%
12	4.936	4.916	4.946	HH	1213	15145	0.08%	0.002%
13	4.954	4.946	4.963	HH	1092	9676	0.05%	0.001%
14	4.977	4.963	5.003	HH	1591	23210	0.13%	0.003%
15	5.045	5.003	5.050	HH	1737	30596	0.17%	0.004%
16	5.071	5.050	5.108	HH	2127	50215	0.27%	0.006%
17	5.119	5.108	5.138	HH	688	6322	0.03%	0.001%
18	5.149	5.138	5.165	PH	404	822	0.00%	0.000%
19	5.208	5.165	5.243	PH	973	9282	0.05%	0.001%
20	5.253	5.243	5.269	PH	-21	-3109	-0.02%	-0.000%
21	5.295	5.269	5.320	PH	2408	20997	0.11%	0.002%
22	5.324	5.320	5.347	HH	108	-1467	-0.01%	-0.000%
23	5.360	5.347	5.372	PH	5	-2385	-0.01%	-0.000%
24	5.388	5.372	5.415	PH	1123	9061	0.05%	0.001%
25	5.423	5.415	5.437	PH	-27	-2374	-0.01%	-0.000%
26	5.453	5.437	5.472	PH	103	-3680	-0.02%	-0.000%
27	5.483	5.472	5.493	PH	-177	-3584	-0.02%	-0.000%
28	5.513	5.493	5.539	PH	7347	69825	0.38%	0.008%
29	5.552	5.539	5.568	HH	912	8722	0.05%	0.001%
30	5.584	5.568	5.624	HH	1393	13013	0.07%	0.002%
31	5.654	5.624	5.669	PH	486	7401	0.04%	0.001%
32	5.684	5.669	5.691	HH	742	7686	0.04%	0.001%
33	5.711	5.691	5.721	HH	2545	31304	0.17%	0.004%
34	5.743	5.721	5.780	HH	10340	154937	0.84%	0.018%
35	5.787	5.780	5.796	HH	1837	16048	0.09%	0.002%
36	5.825	5.796	5.871	HH	4973	126086	0.68%	0.015%

					rters			
37	5.903	5.871	5.934	HH	6481	134300	0.73%	0.016%
38	5.980	5.934	5.993	HH	5142	133079		
39	6.024	5.993	6.064	HH	5075	174287		
40	6.068	6.064	6.078	HH	2707	22830		
41	6.097	6.078	6.109	HH	3619	56141		
42	6.124	6.109	6.144	HH	4229	73971		
43	6.153	6.144	6.170	HH	3382	47947	0.26%	0.006%
44	6.183	6.170	6.193	HH	3828	48900	0.26%	0.006%
45	6.198	6.193	6.225	HH	3596	65965	0.36%	0.008%
46	6.244	6.225	6.268	HH	6016	113602	0.61%	0.014%
47	6.284	6.268	6.295	HH	6919	90029	0.49%	0.011%
48	6.303	6.295	6.375	HH	6735	186511	1.01%	0.022%
49	6.387	6.375	6.420	HH	2790	66469	0.36%	0.008%
50	6.435	6.420	6.445	HH	2609	35196	0.19%	0.004%
51	6.459	6.445	6.466	HH	3483	40021	0.22%	0.005%
52	6.474	6.466	6.498	HH	3710	58441	0.32%	0.007%
53	6.515	6.498	6.522	HH	2714	36314	0.20%	0.004%
54	6.535	6.522	6.558	HH	3237	59846	0.32%	0.007%
55	6.581	6.558	6.606	HH	9596	130941	0.71%	0.016%
56	6.630	6.606	6.685	HH	3520	100607	0.54%	0.012%
57	6.697	6.685	6.715	HH	1421	21997	0.12%	0.003%
58	6.744	6.715	6.794	HH	218552	2244362	12.12%	0.267%
59	6.819	6.794	6.851	HH	6982	109980	0.59%	0.013%
60	6.895	6.851	6.913	HH	3981	99459	0.54%	0.012%
61	6.925	6.913	6.940	HH	2626	38680	0.21%	0.005%
62	6.946	6.940	6.985	HH	2368	51842	0.28%	0.006%
63	7.003	6.985	7.015	HH	1932	31928	0.17%	0.004%
64	7.029	7.015	7.045	HH	2632	40501	0.22%	0.005%
65	7.068	7.045	7.133	HH	6536	232404	1.26%	0.028%
66	7.152	7.133	7.165	HH	4429	75775	0.41%	0.009%
67	7.183	7.165	7.212	HH	4840	117540	0.63%	0.014%
68	7.241	7.212	7.265	HH	9658	219861	1.19%	0.026%
69	7.273	7.265	7.277	HH	7185	49053	0.26%	0.006%
70	7.324	7.277	7.350	HH	8657	345309	1.87%	0.041%
71	7.359	7.350	7.365	HH	7122	64646	0.35%	0.008%
72	7.380	7.365	7.402	HH	8752	156314	0.84%	0.019%
73	7.415	7.402	7.429	HH	6673	97647	0.53%	0.012%
74	7.439	7.429	7.455	HH	6271	90431	0.49%	0.011%
75	7.466	7.455	7.507	HH	5737	162651	0.88%	0.019%
76	7.521	7.507	7.534	HH	5172	77372	0.42%	0.009%
77	7.559	7.534	7.579	HH	9801	178634	0.96%	0.021%
78	7.590	7.579	7.610	HH	5930	97167	0.52%	0.012%
79	7.613	7.610	7.625	HH	4493	38932	0.21%	0.005%
80	7.642	7.625	7.664	HH	6242	122826	0.66%	0.015%
81	7.672	7.664	7.678	HH	4898	40137	0.22%	0.005%
82	7.719	7.678	7.743	HH	14833	321454	1.74%	0.038%
83	7.754	7.743	7.803	HH	5479	171212	0.92%	0.020%
84	7.822	7.803	7.837	HH	5718	103203	0.56%	0.012%
85	7.851	7.837	7.858	HH	5507	65081	0.35%	0.008%
86	7.878	7.858	7.893	HH	6740	127970	0.69%	0.015%
87	7.907	7.893	7.911	HH	6349	65892	0.36%	0.008%
88	7.923	7.911	7.955	HH	6465	150932	0.82%	0.018%
89	7.964	7.955	7.974	HH	4954	53757	0.29%	0.006%

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
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					rters			
90	8.002	7.974	8.018	HH	5330	131737	0.71%	0.016%
91	8.045	8.018	8.054	HH	6068	122608		
92	8.074	8.054	8.097	HH	8428	177710		
93	8.129	8.097	8.155	HH	13057	322470		
94	8.168	8.155	8.188	HH	7591	142465		
95	8.230	8.188	8.239	HH	8070	222545		
96	8.258	8.239	8.278	HH	8373	180138	0.97%	0.021%
97	8.305	8.278	8.316	HH	8542	184660	1.00%	0.022%
98	8.336	8.316	8.363	HH	10683	265007	1.43%	0.031%
99	8.376	8.363	8.386	HH	9667	128230	0.69%	0.015%
100	8.415	8.386	8.439	HH	18255	383775	2.07%	0.046%
101	8.469	8.439	8.494	HH	18291	425697	2.30%	0.051%
102	8.503	8.494	8.524	HH	11102	187002	1.01%	0.022%
103	8.578	8.524	8.605	HH	224497	2752578	14.87%	0.327%
104	8.617	8.605	8.630	HH	12039	175232	0.95%	0.021%
105	8.646	8.630	8.664	HH	11997	227360	1.23%	0.027%
106	8.706	8.664	8.718	HH	15393	443270	2.39%	0.053%
107	8.744	8.718	8.763	HH	20801	484138	2.62%	0.058%
108	8.777	8.763	8.798	HH	18365	320149	1.73%	0.038%
109	8.809	8.798	8.829	HH	12964	226287	1.22%	0.027%
110	8.854	8.829	8.885	HH	17318	478826	2.59%	0.057%
111	8.929	8.885	8.937	HH	17056	444780	2.40%	0.053%
112	8.951	8.937	8.967	HH	19657	321249	1.74%	0.038%
113	8.980	8.967	9.001	HH	18180	335022	1.81%	0.040%
114	9.050	9.001	9.064	HH	17910	580176	3.13%	0.069%
115	9.086	9.064	9.091	HH	18546	288489	1.56%	0.034%
116	9.108	9.091	9.168	HH	20359	829396	4.48%	0.099%
117	9.211	9.168	9.230	HH	22209	707888	3.82%	0.084%
118	9.236	9.230	9.261	HH	18935	328582	1.77%	0.039%
119	9.283	9.261	9.300	HH	18993	420168	2.27%	0.050%
120	9.321	9.300	9.340	HH	24576	491968	2.66%	0.058%
121	9.343	9.340	9.364	HH	20469	283535	1.53%	0.034%
122	9.374	9.364	9.387	HH	19695	268430	1.45%	0.032%
123	9.406	9.387	9.420	HH	20552	387086	2.09%	0.046%
124	9.439	9.420	9.455	HH	22498	456232	2.46%	0.054%
125	9.488	9.455	9.517	HH	22991	802804	4.34%	0.095%
126	9.543	9.517	9.565	HH	22526	614144	3.32%	0.073%
127	9.598	9.565	9.631	HH	27854	967733	5.23%	0.115%
128	9.643	9.631	9.657	HH	23168	349087	1.89%	0.041%
129	9.673	9.657	9.680	HH	23051	316746	1.71%	0.038%
130	9.704	9.680	9.711	HH	24169	435662	2.35%	0.052%
131	9.745	9.711	9.767	HH	37913	1008415	5.45%	0.120%
132	9.795	9.767	9.811	HH	28622	734733	3.97%	0.087%
133	9.820	9.811	9.833	HH	27580	355400	1.92%	0.042%
134	9.846	9.833	9.868	HH	29019	585544	3.16%	0.070%
135	9.887	9.868	9.892	HH	28486	403417	2.18%	0.048%
136	9.917	9.892	9.934	HH	31247	738433	3.99%	0.088%
137	9.941	9.934	9.955	HH	30483	384663	2.08%	0.046%
138	9.971	9.955	9.992	HH	32054	685040	3.70%	0.081%
139	10.013	9.992	10.034	HH	37360	857696	4.63%	0.102%
140	10.057	10.034	10.098	HH	72485	1677206	9.06%	0.199%
141	10.126	10.098	10.149	HH	42319	1093785	5.91%	0.130%

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					rters			
142	10.192	10.149	10.229	HH	238270	3893114	21.03%	0.463%
143	10.234	10.229	10.244	HH	36630	319040		
144	10.250	10.244	10.260	HH	36755	352763		
145	10.282	10.260	10.289	HH	38259	627820		
146	10.293	10.289	10.305	HH	37964	374778		
147	10.315	10.305	10.334	HH	38240	639967		
148	10.359	10.334	10.366	HH	38882	732472	3.96%	0.087%
149	10.402	10.366	10.439	HH	48040	1833122	9.90%	0.218%
150	10.461	10.439	10.479	HH	42533	1003441	5.42%	0.119%
151	10.498	10.479	10.508	HH	44805	733167	3.96%	0.087%
152	10.536	10.508	10.546	HH	45014	996752	5.38%	0.118%
153	10.586	10.546	10.593	HH	47736	1306386	7.06%	0.155%
154	10.617	10.593	10.639	HH	52037	1385351	7.48%	0.165%
155	10.660	10.639	10.665	HH	54980	828866	4.48%	0.099%
156	10.675	10.665	10.693	HH	54389	856798	4.63%	0.102%
157	10.707	10.693	10.720	HH	53401	851070	4.60%	0.101%
158	10.737	10.720	10.759	HH	53692	1216466	6.57%	0.145%
159	10.778	10.759	10.789	HH	56800	983867	5.31%	0.117%
160	10.809	10.789	10.826	HH	57701	1252273	6.76%	0.149%
161	10.856	10.826	10.871	HH	59775	1564098	8.45%	0.186%
162	10.887	10.871	10.921	HH	63992	1833106	9.90%	0.218%
163	10.937	10.921	10.951	HH	61764	1081170	5.84%	0.129%
164	11.002	10.951	11.019	HH	65811	2579516	13.93%	0.307%
165	11.023	11.019	11.043	HH	64733	893610	4.83%	0.106%
166	11.066	11.043	11.070	HH	67165	1068124	5.77%	0.127%
167	11.075	11.070	11.086	HH	66549	625945	3.38%	0.074%
168	11.114	11.086	11.125	HH	69600	1588356	8.58%	0.189%
169	11.154	11.125	11.173	HH	73524	2021119	10.92%	0.240%
170	11.192	11.173	11.205	HH	76711	1408349	7.61%	0.167%
171	11.224	11.205	11.244	HH	82777	1761586	9.51%	0.209%
172	11.267	11.244	11.279	HH	79640	1597402	8.63%	0.190%
173	11.287	11.279	11.292	HH	76038	603866	3.26%	0.072%
174	11.304	11.292	11.308	HH	77704	753226	4.07%	0.090%
175	11.322	11.308	11.345	HH	80401	1740060	9.40%	0.207%
176	11.359	11.345	11.377	HH	78926	1487346	8.03%	0.177%
177	11.387	11.377	11.404	HH	78703	1240216	6.70%	0.147%
178	11.423	11.404	11.429	HH	80046	1168254	6.31%	0.139%
179	11.433	11.429	11.438	HH	80565	448210	2.42%	0.053%
180	11.443	11.438	11.459	HH	80563	988753	5.34%	0.118%
181	11.488	11.459	11.496	HH	86151	1841559	9.95%	0.219%
182	11.502	11.496	11.525	HH	85706	1506445	8.14%	0.179%
183	11.563	11.525	11.581	HH	89438	2886918	15.59%	0.343%
184	11.640	11.581	11.663	HH	284360	6616703	35.74%	0.786%
185	11.674	11.663	11.697	HH	100065	1990580	10.75%	0.237%
186	11.719	11.697	11.740	HH	105445	2576930	13.92%	0.306%
187	11.759	11.740	11.767	HH	95697	1485061	8.02%	0.177%
188	11.786	11.767	11.809	HH	98356	2471525	13.35%	0.294%
189	11.835	11.809	11.842	HH	103271	1956735	10.57%	0.233%
190	11.849	11.842	11.879	HH	104803	2245449	12.13%	0.267%
191	11.886	11.879	11.892	HH	101706	805656	4.35%	0.096%
192	11.916	11.892	11.939	HH	114859	3011396	16.27%	0.358%
193	11.953	11.939	11.969	HH	106069	1939730	10.48%	0.231%
194	11.973	11.969	11.979	HH	103664	567943	3.07%	0.068%

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					rters			
195	11.988	11.979	12.006	HH	106644	1684224	9.10%	0.200%
196	12.038	12.006	12.049	HH	110456	2836043	15.06%	0.381%
197	12.065	12.049	12.082	HH	111725	2183244	11.06%	0.207%
198	12.093	12.082	12.111	HH	110517	1872062	10.06%	0.203%
199	12.117	12.111	12.124	HH	111788	852902	4.06%	0.154%
200	12.137	12.124	12.154	HH	114702	2067912	11.07%	0.244%
201	12.177	12.154	12.200	HH	118630	3209515	17.34%	0.381%
202	12.206	12.200	12.209	HH	114719	620031	3.35%	0.074%
203	12.217	12.209	12.231	HH	115937	1468765	7.93%	0.175%
204	12.250	12.231	12.254	HH	122924	1705343	9.21%	0.203%
205	12.262	12.254	12.282	HH	123737	2048701	11.07%	0.244%
206	12.286	12.282	12.296	HH	123251	974414	5.26%	0.116%
207	12.308	12.296	12.326	HH	126468	2246675	12.14%	0.267%
208	12.333	12.326	12.353	HH	126023	2069901	11.18%	0.246%
209	12.364	12.353	12.371	HH	125010	1292591	6.98%	0.154%
210	12.374	12.371	12.386	HH	125229	1118248	6.04%	0.133%
211	12.390	12.386	12.400	HH	125313	1029408	5.56%	0.122%
212	12.428	12.400	12.467	HH	130681	5195353	28.06%	0.618%
213	12.481	12.467	12.517	HH	128899	3785662	20.45%	0.450%
214	12.539	12.517	12.547	HH	126690	2261018	12.21%	0.269%
215	12.583	12.547	12.616	HH	277421	7355874	39.73%	0.874%
216	12.637	12.616	12.656	HH	139827	3286778	17.75%	0.391%
217	12.678	12.656	12.692	HH	137427	2930958	15.83%	0.348%
218	12.734	12.692	12.763	HH	142643	5852122	31.61%	0.696%
219	12.788	12.763	12.797	HH	139669	2736263	14.78%	0.325%
220	12.803	12.797	12.810	HH	138565	1079049	5.83%	0.128%
221	12.823	12.810	12.843	HH	142581	2729857	14.74%	0.324%
222	12.845	12.843	12.852	HH	139384	816878	4.41%	0.097%
223	12.869	12.852	12.886	HH	146667	2842920	15.36%	0.338%
224	12.908	12.886	12.918	HH	144575	2744856	14.83%	0.326%
225	12.955	12.918	12.986	HH	329334	8160320	44.08%	0.970%
226	12.991	12.986	13.004	HH	146552	1500655	8.11%	0.178%
227	13.019	13.004	13.049	HH	154595	4036437	21.80%	0.480%
228	13.053	13.049	13.076	HH	146754	2349985	12.69%	0.279%
229	13.091	13.076	13.099	HH	148106	1988440	10.74%	0.236%
230	13.112	13.099	13.127	HH	150719	2554394	13.80%	0.304%
231	13.147	13.127	13.185	HH	152445	5151177	27.82%	0.612%
232	13.206	13.185	13.221	HH	162646	3336580	18.02%	0.397%
233	13.226	13.221	13.242	HH	157133	2003044	10.82%	0.238%
234	13.254	13.242	13.261	HH	153036	1658703	8.96%	0.197%
235	13.269	13.261	13.274	HH	148480	1184768	6.40%	0.141%
236	13.284	13.274	13.301	HH	148645	2339629	12.64%	0.278%
237	13.321	13.301	13.351	HH	159594	4640377	25.06%	0.552%
238	13.370	13.351	13.382	HH	156555	2931980	15.84%	0.349%
239	13.399	13.382	13.425	HH	160326	3988840	21.55%	0.474%
240	13.436	13.425	13.443	HH	155140	1644852	8.88%	0.196%
241	13.478	13.443	13.491	HH	158492	4367665	23.59%	0.519%
242	13.507	13.491	13.531	HH	165849	3846881	20.78%	0.457%
243	13.548	13.531	13.556	HH	157559	2338291	12.63%	0.278%
244	13.572	13.556	13.581	HH	161717	2361357	12.75%	0.281%
245	13.597	13.581	13.606	HH	161289	2433234	13.14%	0.289%
246	13.615	13.606	13.622	HH	160458	1486545	8.03%	0.177%

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rteres								
247	13.648	13.622	13.653	HH	168840	3036240	16.40%	0.361%
248	13.655	13.653	13.666	HH	168801	1323220		
249	13.675	13.666	13.711	HH	167785	4392729	23.77%	0.655%
250	13.719	13.711	13.734	HH	162428	2207855	11.40%	0.390%
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251	13.742	13.734	13.750	HH	164703	1607677	8.10%	0.090%
252	13.757	13.750	13.777	HH	162133	2616043	14.19%	0.655%
253	13.783	13.777	13.785	HH	157666	759767	4.10%	0.090%
254	13.815	13.785	13.839	HH	190571	5511453	29.77%	0.655%
255	13.850	13.839	13.872	HH	167046	3279859	17.72%	0.390%
256	13.892	13.872	13.929	HH	169949	5599025	30.24%	0.666%
257	13.944	13.929	13.949	HH	166024	1987583	10.74%	0.236%
258	13.959	13.949	13.964	HH	165321	1458136	7.88%	0.173%
259	13.973	13.964	13.979	HH	166972	1493999	8.07%	0.178%
260	13.983	13.979	14.032	HH	166385	5174221	27.95%	0.615%
261	14.059	14.032	14.089	HH	176510	5752644	31.07%	0.684%
262	14.110	14.089	14.118	HH	171634	2859349	15.44%	0.340%
263	14.159	14.118	14.204	HH	352245	11008243	59.46%	1.308%
264	14.208	14.204	14.211	HH	170296	705701	3.81%	0.084%
265	14.217	14.211	14.229	HH	169965	1831241	9.89%	0.218%
266	14.233	14.229	14.239	HH	169771	960551	5.19%	0.114%
267	14.250	14.239	14.256	HH	169957	1729137	9.34%	0.206%
268	14.286	14.256	14.297	HH	173216	4223445	22.81%	0.502%
269	14.303	14.297	14.310	HH	174110	1351693	7.30%	0.161%
270	14.315	14.310	14.345	HH	173879	3599266	19.44%	0.428%
271	14.355	14.345	14.361	HH	173262	1577474	8.52%	0.188%
272	14.382	14.361	14.417	HH	182055	5963760	32.21%	0.709%
273	14.438	14.417	14.452	HH	173965	3537514	19.11%	0.420%
274	14.471	14.452	14.486	HH	178314	3596677	19.43%	0.428%
275	14.494	14.486	14.511	HH	177429	2646098	14.29%	0.315%
276	14.515	14.511	14.521	HH	177124	1054046	5.69%	0.125%
277	14.526	14.521	14.534	HH	176830	1404590	7.59%	0.167%
278	14.554	14.534	14.574	HH	180961	4278420	23.11%	0.509%
279	14.580	14.574	14.601	HH	178010	2786191	15.05%	0.331%
280	14.634	14.601	14.641	HH	186798	4406866	23.80%	0.524%
281	14.645	14.641	14.662	HH	182884	2215264	11.97%	0.263%
282	14.674	14.662	14.688	HH	181241	2865074	15.48%	0.341%
283	14.695	14.688	14.701	HH	178252	1302703	7.04%	0.155%
284	14.709	14.701	14.716	HH	178291	1567995	8.47%	0.186%
285	14.723	14.716	14.728	HH	181206	1341209	7.24%	0.159%
286	14.733	14.728	14.739	HH	181142	1195225	6.46%	0.142%
287	14.749	14.739	14.755	HH	180852	1685191	9.10%	0.200%
288	14.761	14.755	14.767	HH	182039	1316743	7.11%	0.157%

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300	15.127	15.118	15.132	HH	198106	1656401	8.95%	0.197%
301	15.156	15.132	15.163	HH	198642	3617887	19.85%	0.548%
302	15.167	15.163	15.176	HH	198908	1529960	8.95%	0.197%
303	15.188	15.176	15.192	HH	201120	1874598	10.61%	0.271%
304	15.211	15.192	15.231	HH	206969	4805339	25.33%	0.557%
305	15.267	15.231	15.303	HH	367303	10955665	59.44%	1.406%
306	15.334	15.303	15.340	HH	214412	4609232	24.90%	0.548%
307	15.348	15.340	15.357	HH	209018	2132638	11.52%	0.253%
308	15.375	15.357	15.387	HH	213616	3790702	20.48%	0.451%
309	15.405	15.387	15.428	HH	218533	5155729	27.85%	0.613%
310	15.442	15.428	15.447	HH	217469	2508780	13.55%	0.298%
311	15.456	15.447	15.461	HH	222666	1801728	9.73%	0.214%
312	15.466	15.461	15.484	HH	219915	3044381	16.44%	0.362%
313	15.491	15.484	15.504	HH	218878	2586601	13.97%	0.307%
314	15.522	15.504	15.540	HH	225808	4690021	25.33%	0.557%
315	15.545	15.540	15.554	HH	220002	1840967	9.94%	0.219%
316	15.571	15.554	15.580	HH	225798	3569787	19.28%	0.424%
317	15.601	15.580	15.610	HH	228761	4092343	22.10%	0.486%
318	15.615	15.610	15.624	HH	231410	1813684	9.80%	0.216%
319	15.651	15.624	15.691	HH	257164	9727315	52.54%	1.156%
320	15.704	15.691	15.709	HH	240118	2502466	13.52%	0.297%
321	15.714	15.709	15.729	HH	239467	2883957	15.58%	0.343%
322	15.749	15.729	15.770	HH	246881	5884122	31.78%	0.699%
323	15.776	15.770	15.779	HH	242384	1231019	6.65%	0.146%
324	15.803	15.779	15.824	HH	251260	6663121	35.99%	0.792%
325	15.863	15.824	15.888	HH	259298	9599669	51.85%	1.141%
326	15.894	15.888	15.906	HH	252498	2672855	14.44%	0.318%
327	15.912	15.906	15.922	HH	251260	2433730	13.15%	0.289%
328	15.930	15.922	15.932	HH	253159	1537037	8.30%	0.183%
329	15.938	15.932	15.949	HH	256900	2613470	14.12%	0.311%
330	15.952	15.949	15.977	HH	256393	4296897	23.21%	0.511%
331	15.998	15.977	16.004	HH	260990	4087161	22.08%	0.486%
332	16.027	16.004	16.032	HH	273282	4556316	24.61%	0.542%
333	16.053	16.032	16.077	HH	275968	7266646	39.25%	0.864%
334	16.102	16.077	16.106	HH	282144	4888357	26.40%	0.581%
335	16.117	16.106	16.126	HH	290995	3331227	17.99%	0.396%
336	16.131	16.126	16.137	HH	285604	1978276	10.69%	0.235%
337	16.146	16.137	16.155	HH	284384	3024258	16.34%	0.359%
338	16.189	16.155	16.196	HH	286547	6869266	37.10%	0.817%
339	16.205	16.196	16.212	HH	289112	2778436	15.01%	0.330%
340	16.260	16.212	16.268	HH	305085	9937039	53.67%	1.181%
341	16.293	16.268	16.322	HH	453288	11832676	63.91%	1.406%
342	16.328	16.322	16.337	HH	310173	2756545	14.89%	0.328%
343	16.374	16.337	16.379	HH	324422	7905477	42.70%	0.940%
344	16.390	16.379	16.396	HH	325056	3202113	17.30%	0.381%
345	16.423	16.396	16.429	HH	329463	6528566	35.26%	0.776%
346	16.439	16.429	16.448	HH	335123	3802923	20.54%	0.452%
347	16.452	16.448	16.468	HH	330039	3836438	20.72%	0.456%
348	16.495	16.468	16.504	HH	339422	7192393	38.85%	0.855%
349	16.509	16.504	16.528	HH	341683	4832424	26.10%	0.574%
350	16.540	16.528	16.544	HH	327213	2968449	16.03%	0.353%
351	16.549	16.544	16.558	HH	333061	2749192	14.85%	0.327%

Instrument :

FID_G

ClientSampleId :

UST-2MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024

Supervised By :Ankita Jodhani 12/12/2024

Chromatogram Data									
Peak No.	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width	Height
352	16.580	16.558	16.585	HH	338774	5452413	29.45%	0.648%	
353	16.591	16.585	16.611	HH	344230	5243517	28.45%	0.648%	
354	16.638	16.611	16.657	HH	359672	9588724	51.45%	0.648%	
355	16.697	16.657	16.712	HH	360765	11764565	63.45%	0.648%	
356	16.729	16.712	16.733	HH	359858	4470922	24.45%	0.877%	
357	16.741	16.733	16.757	HH	364241	5044079	27.45%	0.877%	
358	16.779	16.757	16.790	HH	377600	7381550	39.87%	0.877%	
359	16.796	16.790	16.802	HH	379304	2840059	15.34%	0.338%	
360	16.813	16.802	16.831	HH	378097	6351810	34.31%	0.755%	
361	16.836	16.831	16.843	HH	372673	2693562	14.55%	0.320%	
362	16.880	16.843	16.895	HH	379200	11761817	63.53%	1.398%	
363	16.920	16.895	16.928	HH	396555	7648291	41.31%	0.909%	
364	16.935	16.928	16.967	HH	395552	9114415	49.23%	1.083%	
365	16.986	16.967	16.992	HH	398331	6027262	32.56%	0.716%	
366	17.018	16.992	17.024	HH	407450	7696497	41.57%	0.915%	
367	17.062	17.024	17.077	HH	421314	12924721	69.81%	1.536%	
368	17.082	17.077	17.086	HH	416741	2364945	12.77%	0.281%	
369	17.095	17.086	17.099	HH	421930	3163730	17.09%	0.376%	
370	17.112	17.099	17.137	HH	431959	9643747	52.09%	1.146%	
371	17.161	17.137	17.175	HH	438369	9826049	53.07%	1.168%	
372	17.181	17.175	17.186	HH	433254	2887041	15.59%	0.343%	
373	17.199	17.186	17.212	HH	440431	6871536	37.12%	0.817%	
374	17.251	17.212	17.272	HH	613793	18513786	100.00%	2.201%	
375	17.277	17.272	17.301	HH	493302	8268286	44.66%	0.983%	
376	17.322	17.301	17.328	HH	472350	7442942	40.20%	0.885%	
377	17.333	17.328	17.344	HH	473826	4752505	25.67%	0.565%	
378	17.376	17.344	17.390	HH	489640	13108460	70.80%	1.558%	
Sum of corrected areas:						841303737			

Instrument :
FID_G
ClientSampleId :
UST-2MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/12/2024
Supervised By :Ankita Jodhani 12/12/2024

FG112024.M Thu Dec 12 00:18:00 2024

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P5194-01		FG014965.D	FG121124	TETRACOSANE-d50 (SURROGA	Ankita	12/12/2024 10:46:42 AM	Peak Integrated by Software incorrectly
P5194-02		FG014966.D	FG121124	TETRACOSANE-d50 (SURROGA	Ankita	12/12/2024 10:46:43 AM	Peak Integrated by Software incorrectly
P5194-02		FG014968.D	FG121124	TETRACOSANE-d50 (SURROGA	Ankita	12/12/2024 10:46:44 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014970.D	FG121124	N-TETRACOSANE	Ankita	12/12/2024 10:46:46 AM	Peak Integrated by Software incorrectly
P5194-02MS		FG014973.D	FG121124	N-DOCOSANE	Ankita	12/12/2024 10:46:47 AM	Peak Integrated by Software incorrectly
P5194-02MS		FG014973.D	FG121124	N-EICOSANE	Ankita	12/12/2024 10:46:47 AM	Peak Integrated by Software incorrectly
P5194-02MS		FG014973.D	FG121124	N-OCTACOSANE	Ankita	12/12/2024 10:46:47 AM	Peak Integrated by Software incorrectly
P5194-02MS		FG014973.D	FG121124	N-OCTADECANE	Ankita	12/12/2024 10:46:47 AM	Peak Integrated by Software incorrectly
P5194-02MS		FG014973.D	FG121124	TETRACOSANE-d50 (SURROGA	Ankita	12/12/2024 10:46:47 AM	Peak Integrated by Software incorrectly
P5194-02MSD		FG014974.D	FG121124	N-DOCOSANE	Ankita	12/12/2024 10:46:49 AM	Peak Integrated by Software incorrectly
P5194-02MSD		FG014974.D	FG121124	N-EICOSANE	Ankita	12/12/2024 10:46:49 AM	Peak Integrated by Software incorrectly
P5194-02MSD		FG014974.D	FG121124	N-HEXACOSANE	Ankita	12/12/2024 10:46:49 AM	Peak Integrated by Software incorrectly
P5194-02MSD		FG014974.D	FG121124	N-OCTACOSANE	Ankita	12/12/2024 10:46:49 AM	Peak Integrated by Software incorrectly
P5194-02MSD		FG014974.D	FG121124	N-OCTADECANE	Ankita	12/12/2024 10:46:49 AM	Peak Integrated by Software incorrectly

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG112024

Review By	yogesh	Review On	11/20/2024 3:16:01 PM
Supervise By	Ankita	Supervise On	11/21/2024 10:01:12 AM
SubDirectory	FG112024	HP Acquire Method	HP Processing Method FG112024
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014886.D	20 Nov 2024 15:42	YP\AJ	Ok
2	I.BLK	FG014887.D	20 Nov 2024 16:39	YP\AJ	Ok
3	100 TRPH STD	FG014888.D	20 Nov 2024 17:36	YP\AJ	Ok
4	50 TRPH STD	FG014889.D	20 Nov 2024 18:32	YP\AJ	Ok
5	20 TRPH STD	FG014890.D	20 Nov 2024 19:01	YP\AJ	Ok
6	10 TRPH STD	FG014891.D	20 Nov 2024 19:29	YP\AJ	Ok
7	5 TRPH STD	FG014892.D	20 Nov 2024 19:58	YP\AJ	Ok
8	FG112024ICV	FG014893.D	20 Nov 2024 21:23	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG121124

Review By	yogesh	Review On	12/11/2024 12:09:51 PM
Supervise By	Ankita	Supervise On	12/12/2024 10:46:55 AM
SubDirectory	FG121124	HP Acquire Method	HP Processing Method FG112024
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014961.D	11 Dec 2024 09:50	YP\AJ	Ok
2	I.BLK	FG014962.D	11 Dec 2024 10:19	YP\AJ	Ok
3	50 PPM TRPH STD	FG014963.D	11 Dec 2024 10:47	YP\AJ	Ok
4	RT MARKER	FG014964.D	11 Dec 2024 11:16	YP\AJ	Ok
5	P5194-01	FG014965.D	11 Dec 2024 12:22	YP\AJ	Ok,M
6	P5194-02	FG014966.D	11 Dec 2024 12:50	YP\AJ	Ok,M
7	P5194-01	FG014967.D	11 Dec 2024 13:21	YP\AJ	Dilution
8	P5194-02	FG014968.D	11 Dec 2024 13:49	YP\AJ	Dilution
9	I.BLK	FG014969.D	11 Dec 2024 14:18	YP\AJ	Ok
10	50 PPM TRPH STD	FG014970.D	11 Dec 2024 14:46	YP\AJ	Ok,M
11	PB165556BL	FG014971.D	11 Dec 2024 15:15	YP\AJ	Ok
12	PB165556BS	FG014972.D	11 Dec 2024 15:44	YP\AJ	Ok
13	P5194-02MS	FG014973.D	11 Dec 2024 16:12	YP\AJ	Ok,M
14	P5194-02MSD	FG014974.D	11 Dec 2024 16:41	YP\AJ	Ok,M
15	I.BLK	FG014975.D	11 Dec 2024 17:09	YP\AJ	Ok
16	50 PPM TRPH STD	FG014976.D	11 Dec 2024 18:06	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG112024

Review By	yogesh	Review On	11/20/2024 3:16:01 PM
Supervise By	Ankita	Supervise On	11/21/2024 10:01:12 AM
SubDirectory	FG112024	HP Acquire Method	HP Processing Method FG112024

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014886.D	20 Nov 2024 15:42		YP\AJ	Ok
2	I.BLK		FG014887.D	20 Nov 2024 16:39		YP\AJ	Ok
3	100 TRPH STD		FG014888.D	20 Nov 2024 17:36		YP\AJ	Ok
4	50 TRPH STD		FG014889.D	20 Nov 2024 18:32		YP\AJ	Ok
5	20 TRPH STD		FG014890.D	20 Nov 2024 19:01		YP\AJ	Ok
6	10 TRPH STD		FG014891.D	20 Nov 2024 19:29		YP\AJ	Ok
7	5 TRPH STD		FG014892.D	20 Nov 2024 19:58		YP\AJ	Ok
8	FG112024ICV		FG014893.D	20 Nov 2024 21:23		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG121124

Review By	yogesh	Review On	12/11/2024 12:09:51 PM
Supervise By	Ankita	Supervise On	12/12/2024 10:46:55 AM
SubDirectory	FG121124	HP Acquire Method	HP Processing Method FG112024
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM	PP23962,PP23967		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014961.D	11 Dec 2024 09:50		YPIAJ	Ok
2	I.BLK		FG014962.D	11 Dec 2024 10:19		YPIAJ	Ok
3	50 PPM TRPH STD		FG014963.D	11 Dec 2024 10:47		YPIAJ	Ok
4	RT MARKER		FG014964.D	11 Dec 2024 11:16		YPIAJ	Ok
5	P5194-01		FG014965.D	11 Dec 2024 12:22		YPIAJ	Ok,M
6	P5194-02		FG014966.D	11 Dec 2024 12:50		YPIAJ	Ok,M
7	P5194-01		FG014967.D	11 Dec 2024 13:21	need 10x dilution	YPIAJ	Dilution
8	P5194-02		FG014968.D	11 Dec 2024 13:49	need 10x dilution	YPIAJ	Dilution
9	I.BLK		FG014969.D	11 Dec 2024 14:18		YPIAJ	Ok
10	50 PPM TRPH STD		FG014970.D	11 Dec 2024 14:46		YPIAJ	Ok,M
11	PB165556BL		FG014971.D	11 Dec 2024 15:15		YPIAJ	Ok
12	PB165556BS		FG014972.D	11 Dec 2024 15:44		YPIAJ	Ok
13	P5194-02MS		FG014973.D	11 Dec 2024 16:12		YPIAJ	Ok,M
14	P5194-02MSD		FG014974.D	11 Dec 2024 16:41		YPIAJ	Ok,M
15	I.BLK		FG014975.D	11 Dec 2024 17:09		YPIAJ	Ok
16	50 PPM TRPH STD		FG014976.D	11 Dec 2024 18:06		YPIAJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/9/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 12/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 12/07/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133796

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5123-01	1439-BIDS-WHITE-WINDOW-1A-1B-1C	1	1.00	1.00	2.00	2.00	100.0	caluk
P5123-02	1939-1915-BIDS-2A-2B-2C-BUILDING-CONCRETE	2	1.00	1.00	2.00	2.00	100.0	caluk
P5159-01	COMP-A-B	3	1.15	8.81	9.96	6.61	62.0	
P5159-02	102824-A	4	1.18	8.81	9.99	6.29	58.0	
P5159-03	102824-B	5	1.14	8.64	9.78	7.00	67.8	
P5162-01	120624-A	6	1.00	1.00	2.00	2.00	100.0	wipe sample
P5162-02	120624-B	7	1.00	1.00	2.00	2.00	100.0	wipe sample
P5162-03	120624-C	8	1.00	1.00	2.00	2.00	100.0	wipe sample
P5174-01	ROLL-OFF-COMP	9	1.16	8.49	9.65	8.11	81.9	
P5175-01	OK-01-12062024	10	1.15	8.81	9.96	9.36	93.2	
P5175-02	OK-01-12062024-E2	11	1.16	8.47	9.63	8.88	91.1	
P5176-01	EO-02-12062024	12	1.15	8.40	9.55	8.88	92.0	
P5176-02	EO-02-12062024-E2	13	1.13	8.70	9.83	9.31	94.0	
P5176-03	EO-03-12062024	14	1.16	8.51	9.67	8.89	90.8	
P5176-04	EO-03-12062024-E2	15	1.13	8.74	9.87	8.1	79.7	
P5193-05	SVOC-GPC-BLANK	16	1.00	1.00	2.00	2.00	100.0	
P5193-06	PEST-GPC-BLANK	17	1.00	1.00	2.00	2.00	100.0	
P5193-07	PEST-GPC-BLANK-SPIKE	18	1.00	1.00	2.00	2.00	100.0	
P5193-08	PCB-GPC-BLANK	19	1.00	1.00	2.00	2.00	100.0	
P5193-09	PCB-GPC-BLANK-SPIKE	20	1.00	1.00	2.00	2.00	100.0	
P5193-10	SVOC-GPC2-BLANK	21	1.00	1.00	2.00	2.00	100.0	
P5193-11	PEST-GPC2-BLANK	22	1.00	1.00	2.00	2.00	100.0	
P5193-12	PEST-GPC2-BLANK-SPIKE	23	1.00	1.00	2.00	2.00	100.0	
P5193-13	PCB-GPC2-BLANK	24	1.00	1.00	2.00	2.00	100.0	
P5193-14	PCB-GPC2-BLANK-SPIKE	25	1.00	1.00	2.00	2.00	100.0	
P5194-01	UST-1	26	1.16	8.48	9.64	8.63	88.1	
P5194-02	UST-2	27	1.12	8.71	9.83	9.06	91.2	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/9/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 12/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 12/07/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133796

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P5194-03	WP-1	28	1.18	8.44	9.62	9.4	97.4	
P5194-04	WP-2	29	1.12	8.54	9.66	9.17	94.3	
P5194-05	WP-3	30	1.17	8.80	9.97	9.00	89.0	
P5194-06	WP-4	31	1.13	7.67	8.8	8.6	97.4	
P5196-01	MH-761	32	1.15	8.68	9.83	8.54	85.1	
P5196-02	MH-761-EPH	33	1.15	8.84	9.99	9.05	89.4	
P5196-03	MH-761-VOC	34	1.15	8.84	9.99	9.11	90.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

133796

WorkList Name : %1-120624

WorkList ID : 186038

Department : Wet-Chemistry

Date : 12-06-2024 08:18:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5123-01	1439-BIDS-WHITE-WINDOW-1.	Solid	Percent Solids	Cool 4 deg C	ATCE02	M11	11/23/2024	Chemtech -SO
P5123-02	1939-1915-BIDS-2A-2B-2C-BUI	Solid	Percent Solids	Cool 4 deg C	ATCE02	M11	11/23/2024	Chemtech -SO
P5159-01	COMP-A-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	12/06/2024	Chemtech -SO
P5159-02	102824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	12/06/2024	Chemtech -SO
P5159-03	102824-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	12/06/2024	Chemtech -SO
P5162-01	120624-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	12/06/2024	Chemtech -SO
P5162-02	120624-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	12/06/2024	Chemtech -SO
P5162-03	120624-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	12/06/2024	Chemtech -SO
P5174-01	ROLL-OFF-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	12/06/2024	Chemtech -SO
P5175-01	OK-01-12062024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	12/06/2024	Chemtech -SO
P5175-02	OK-01-12062024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	12/06/2024	Chemtech -SO
P5176-01	EO-02-12062024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	12/06/2024	Chemtech -SO
P5176-02	EO-02-12062024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	12/06/2024	Chemtech -SO
P5176-03	EO-03-12062024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	12/06/2024	Chemtech -SO
P5176-04	EO-03-12062024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	12/06/2024	Chemtech -SO
P5193-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

17135

17135

17135

WORKLIST(Hardcopy Internal Chain)

JB 133796

WorkList Name : %1-120624

WorkList ID : 186038

Department : Wet-Chemistry

Date : 12-06-2024 08:18:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5193-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5193-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	12/02/2024	Chemtech -SO
P5194-01	UST-1	Solid	Percent Solids	Cool 4 deg C	JPCL01	L41	12/05/2024	Chemtech -SO
P5194-02	UST-2	Solid	Percent Solids	Cool 4 deg C	JPCL01	L41	12/05/2024	Chemtech -SO
P5194-03	WP-1	Solid	Percent Solids	Cool 4 deg C	JPCL01	L41	12/05/2024	Chemtech -SO
P5194-04	WP-2	Solid	Percent Solids	Cool 4 deg C	JPCL01	L41	12/05/2024	Chemtech -SO
P5194-05	WP-3	Solid	Percent Solids	Cool 4 deg C	JPCL01	L41	12/05/2024	Chemtech -SO
P5194-06	WP-4	Solid	Percent Solids	Cool 4 deg C	JPCL01	L41	12/05/2024	Chemtech -SO
P5196-01	MH-761	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	12/06/2024	Chemtech -SO
P5196-02	MH-761-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	12/06/2024	Chemtech -SO
P5196-03	MH-761-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	12/06/2024	Chemtech -SO

Date/Time 12/06/24 16:25
 Raw Sample Received by: JB WBC
 Raw Sample Relinquished by: CSR

Date/Time 12/06/24 17:35
 Raw Sample Received by: CSR
 Raw Sample Relinquished by: JB WBC

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH **Extraction By:** RS

Balance check: RJ **Filter By:** RJ

Balance ID: EX-SC-2 **pH Meter ID:** N/A

pH Strip Lot#: N/A **Hood ID:** 3,7

Extraction Method: ☐ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Extraction Start Date : 12/11/2024

Extraction Start Time : 09:15

Extraction End Date : 12/11/2024

Extraction End Time : 12:15

Concentration By: EH

Supervisor By : rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP23935
Spike Sol 1	1.0ML	20 PPM	PP23913
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2560
Baked Na2SO4	N/A	EP2570
Sand	N/A	E2865
Methylene Chloride	N/A	E3845
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A **Envap ID:** NEVAP-02

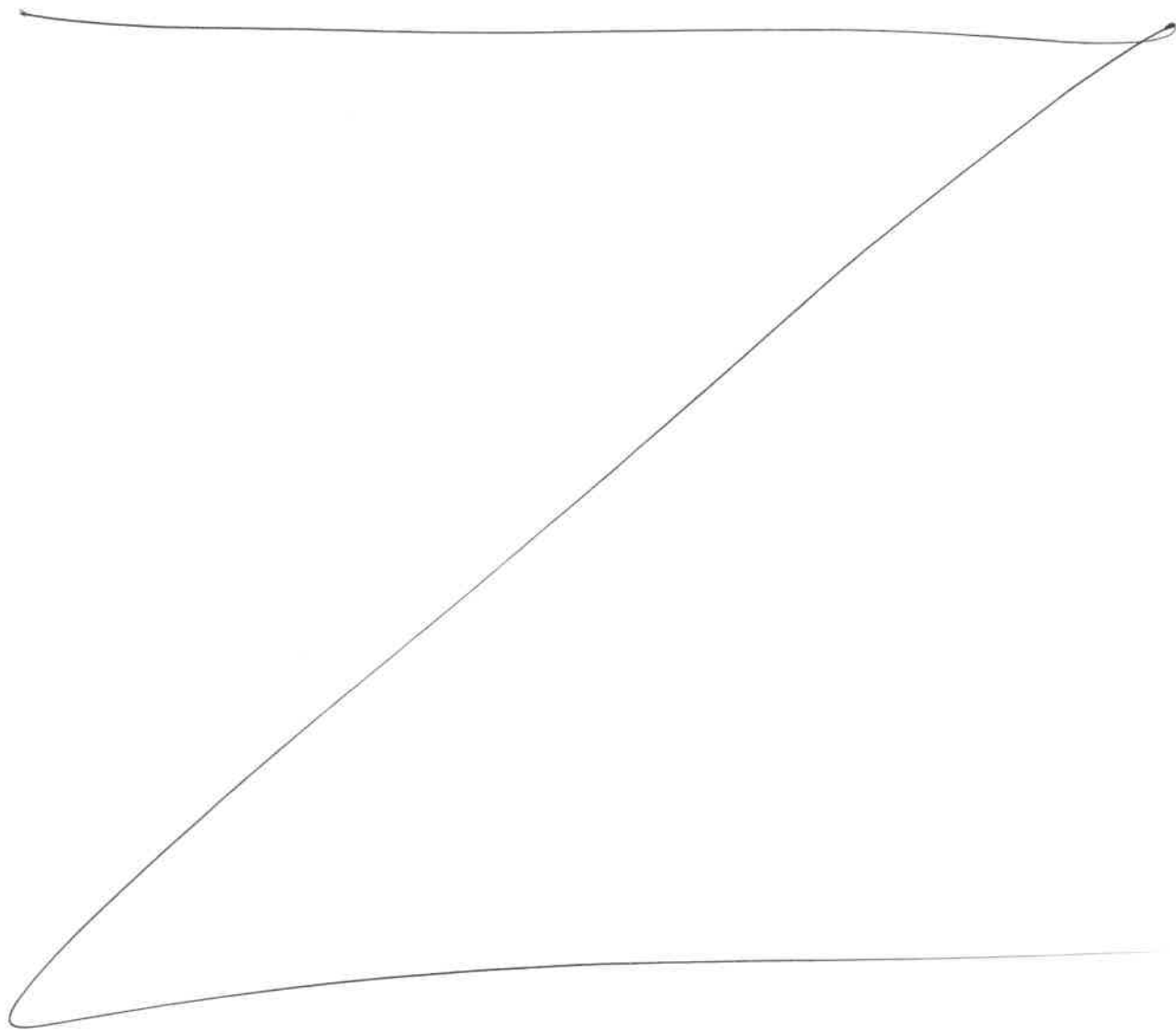
KD Bath Temperature: N/A **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/11/24	RP (Sat 9:15)	T.P. Pestil PCB
12:20	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 12/11/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165556BL	PB165556BL	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			U5-1
PB165556BS	PB165556BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
P5194-01	UST-1	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	B		3
P5194-02	UST-2	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	B		4
P5194-02MS	UST-2MS	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	B		5
P5194-02MS D	UST-2MSD	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	B		6



16776
9/15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5194 WorkList ID : 186222 Department : Extraction Date : 12-11-2024 08:09:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5194-01	UST-1	Solid	Diesel Range Organics	Cool 4 deg C	JPCL01	L41	12/05/2024	8015D
P5194-01	UST-1	Solid	EPH	Cool 4 deg C	JPCL01	L41	12/05/2024	NJEPH
P5194-02	UST-2	Solid	Diesel Range Organics	Cool 4 deg C	JPCL01	L41	12/05/2024	8015D
P5194-02	UST-2	Solid	EPH	Cool 4 deg C	JPCL01	L41	12/05/2024	NJEPH

Date/Time12/11/24

Raw Sample Received by: R J (Set long)

Raw Sample Relinquished by: R J (Set long)

Date/Time12/11/24

Raw Sample Received by: R J (Set long)

Raw Sample Relinquished by: R J (Set long)

Prep Standard - Chemical Standard Summary

Order ID : P5194

Test : Diesel Range Organics

Prepbatch ID : PB165556,

Sequence ID/Qc Batch ID: FG121124,

Standard ID :

EP2560,EP2570,PP23913,PP23935,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,

Chemical ID :

E2865,E3551,E3822,E3827,E3828,E3845,P11958,P11959,P13104,P13109,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2560	11/14/2024	05/08/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/14/2024

FROM 8000.00000ml of E3827 + 8000.00000ml of E3828 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2570	12/02/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/02/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP23913	10/25/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani
								10/25/2024

FROM 1.00000ml of P13104 + 1.00000ml of P13109 + 48.00000ml of E3822 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
147	20 PPM DRO Surrogate Spike Solution	PP23935	11/01/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/04/2024

FROM 1.00000ml of P13492 + 1.00000ml of P13493 + 1.00000ml of P13494 + 1.00000ml of P13495 + 196.00000ml of E3822 = Final Quantity: 200.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
433	100/100 PPM DRO (Restek)	PP23961	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM	1.00000ml of P11958 + 1.00000ml of P11959 + 1.00000ml of P13213 + 7.00000ml of E3828 = Final Quantity: 10.000 ml
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<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3796	100/100 PPM DRO STD (CPI)	PP23962	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM	
1.00000ml of P13213 + 1.00000ml of P13218 + 1.00000ml of P13219 + 7.00000ml of E3828	= Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
435	50 PPM ICC DRO STD (Restek)	PP23963	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
11/13/2024								

FROM 0.50000ml of E3828 + 0.50000ml of PP23961 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
437	20 PPM ICC DRO STD (Restek)	PP23964	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
11/13/2024								

FROM 0.80000ml of E3828 + 0.20000ml of PP23961 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
438	10 PPM ICC DRO STD (Restek)	PP23965	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23961 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
439	5 PPM ICC DRO STD (Restek)	PP23966	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23963 = Final Quantity: 1.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3797	50 PPM DRO ICV STD (CPI)	PP23967	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani
<u>FROM</u>	0.80000ml of E3828 + 0.50000ml of PP23962 = Final Quantity: 1.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11958

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13109

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/13/2025	11/13/2024 / yogesh	01/17/2024 / Ankita	P13213

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	02/14/2025	08/14/2024 / yogesh	01/31/2024 / Ankita	P13218

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	05/13/2025	11/13/2024 / yogesh	01/31/2024 / Ankita	P13219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13492

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13493

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13495

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

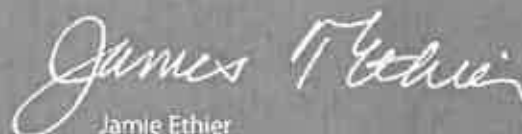
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantors**



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3822



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3827

Rec'd by RS on ~~11/8/24~~ 11/7/24

$\frac{RS}{11/7}$

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantor**™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 24H2762011

Manufactured Date: 2024-06-05

Expiration Date: 2025-09-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

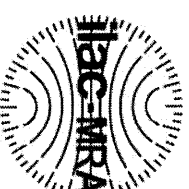
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) CAS # 111-65-9 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Unstressed Stressed
3	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Unstressed Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Unstressed Stressed
6	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Unstressed Stressed
7	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

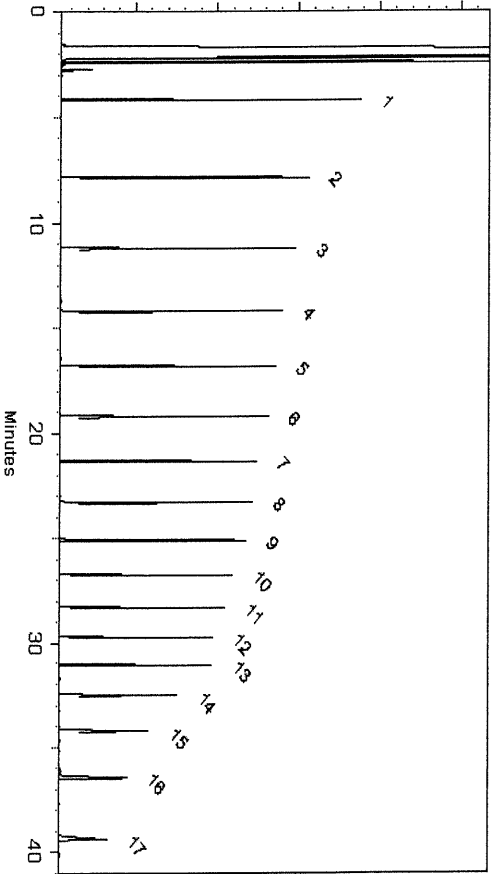
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-US for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-US.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

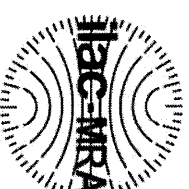
Bellefonte, PA 16823-8812

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Certificate of Analysis



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Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) CAS # 111-65-9 Purity 99%	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 +/- 12.4968 +/- 14.9795	µg/mL Gravimetric Unstressed Stressed
3	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL Gravimetric Unstressed Stressed
6	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL Gravimetric Unstressed Stressed
7	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
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12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

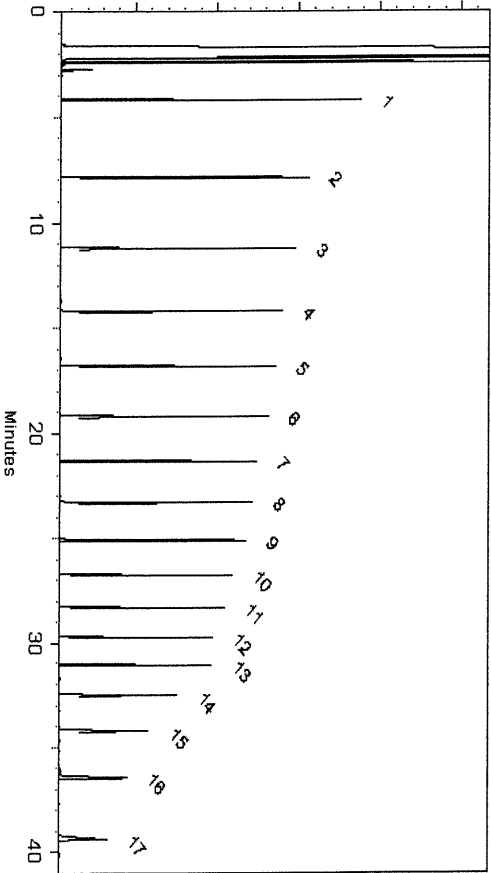
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-US for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-US.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31266 **Lot No.:** A0204859

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2030 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKQC3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKQC8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKQC4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKQC9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

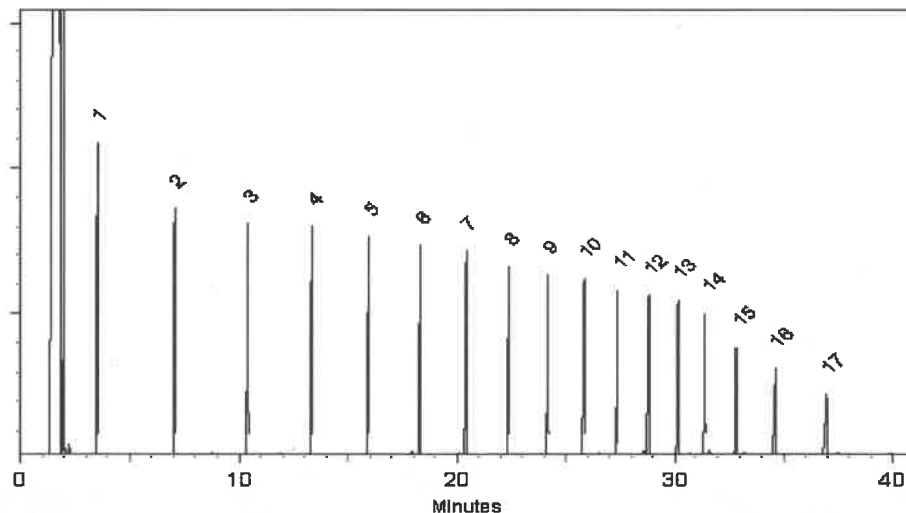
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

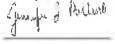


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31266 **Lot No.:** A0204859

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2030 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

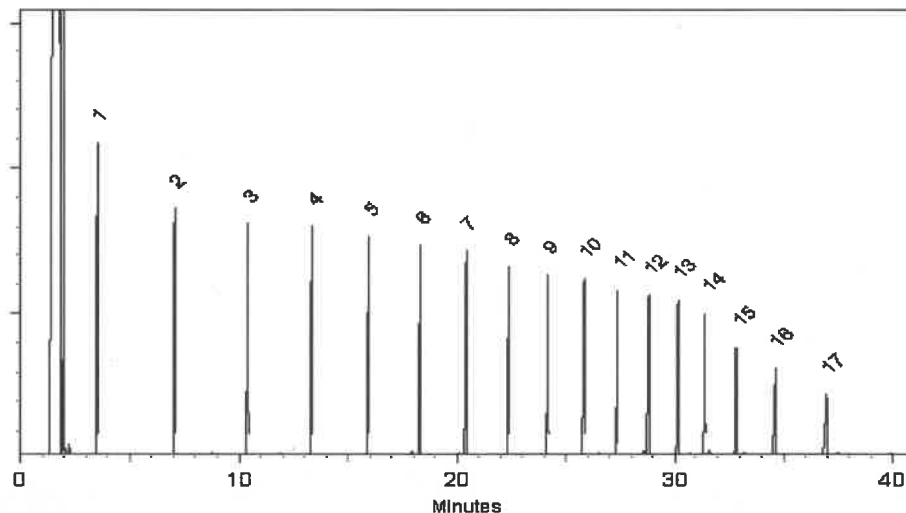
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

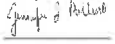


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

72072
101122
n-Tetracosane-d50

Solvent(s):
Methylene chloride

Lot#
105345

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

101132
Ambient (20 °C)
1000
6UTB

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0

Formulated By:	Prashant Chauhan	101122	DATE
Reviewed By:	Pedro L. Renteria	101122	DATE

SDS Information

Expanded
Uncertainty
(+/-) (µg/mL)

Actual
Conc (µg/mL)

Actual
Weight(g)

Target
Weight(g)

Assay
(%D)

Purity
(%)

Nominal
Conc (µg/mL)

Lot
Number

RM#

2072

PR-26606

1000

98.7

0.2

99.0

0.20471

0.20482

1000.6

4.1

16416-32-3

N/A

N/A

Compound

1. n-Tetracosane-d50

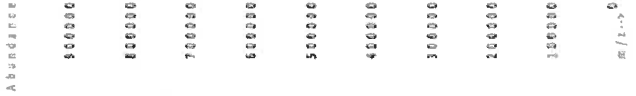
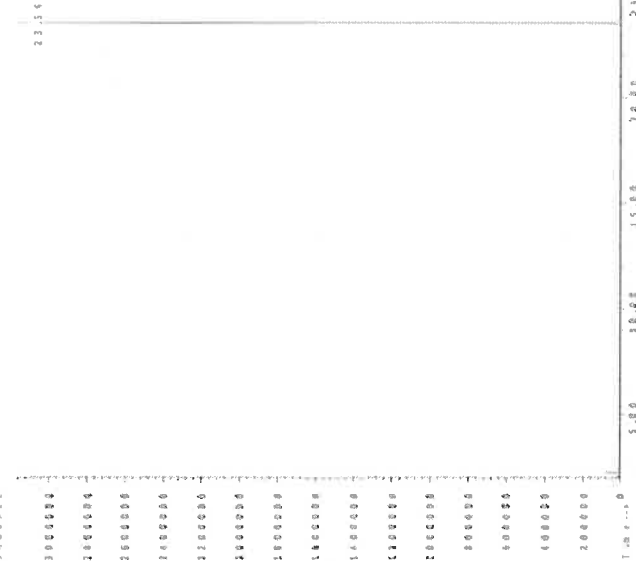
Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.

Abundance

2.3.16

Abundance

Scan 1589 (3.538 min.): [M+H]⁺ 389



P13205
P13214
A3
61/17/24

The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.

Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).

Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.

Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



5580 Skylane Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤-10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

decane (C10)

124-18-5

99.7

415.7.2P

498.5 ± 6.92

docosane (C22)

629-97-0

98.8

420.9.1P

499.4 ± 6.93

dodecane (C12)

112-40-3

99.7

416.9.3P

502 ± 6.97

dotriacontane (C32)

544-85-4

97

425.9.2.2P

499.6 ± 8.53

eicosane (C20)

112-95-8

99.8

419.7.1P

501 ± 6.95

hexacosane (C26)

630-01-3

99.3

422.7.2.1P

501 ± 6.95

hexatriacontane (C36)

630-06-8

98

427.29.1.1P

499.3 ± 8.53

n-hexadecane (C16)

544-76-3

99.45

368.27.1.1P

498.7 ± 6.91

octacosane (C28)

630-02-4

99.1

423.24.1P

500.5 ± 6.95

n-octadecane (C18)

593-45-3

99.5

418.29.1P

499.5 ± 6.92

octane (C8)

111-65-9

99.4

385.7.2.1P

498.5 ± 6.92

octatriacontane (C38)

7194-85-6

95

428.1.2P

500.2 ± 6.94

tetracontane (C40)

4181-95-7

97

429.7.2P

499.6 ± 6.93

n-tetracosane (C24)

646-31-1

99.5

421.7.1P

499.5 ± 6.93

n-tetradecane (C14)

629-59-4

99.3

417.9.1P

500 ± 6.94

tetatriacontane (C34)

14167-59-0

96.1

426.7.2.2P

499.7 ± 8.53

triacontane (C30)

638-68-6

99.5

424.7.1.1P

500 ± 6.94

Let the standard warm to room temperature and sonicate before opening.

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤-10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

decane (C10)

124-18-5

99.7

415.7.2P

498.5 ± 6.92

docosane (C22)

629-97-0

98.8

420.9.1P

499.4 ± 6.93

dodecane (C12)

112-40-3

99.7

416.9.3P

502 ± 6.97

dotriacontane (C32)

544-85-4

97

425.9.2.2P

499.6 ± 8.53

eicosane (C20)

112-95-8

99.8

419.7.1P

501 ± 6.95

hexacosane (C26)

630-01-3

99.3

422.7.2.1P

501 ± 6.95

hexatriacontane (C36)

630-06-8

98

427.29.1.1P

499.3 ± 8.53

n-hexadecane (C16)

544-76-3

99.45

368.27.1.1P

498.7 ± 6.91

octacosane (C28)

630-02-4

99.1

423.24.1P

500.5 ± 6.95

n-octadecane (C18)

593-45-3

99.5

418.29.1P

499.5 ± 6.92

octane (C8)

111-65-9

99.4

385.7.2.1P

498.5 ± 6.92

octatriacontane (C38)

7194-85-6

95

428.1.2P

500.2 ± 6.94

tetracontane (C40)

4181-95-7

97

429.7.2P

499.6 ± 6.93

n-tetracosane (C24)

646-31-1

99.5

421.7.1P

499.5 ± 6.93

n-tetradecane (C14)

629-59-4

99.3

417.9.1P

500 ± 6.94

tetatriacontane (C34)

14167-59-0

96.1

426.7.2.2P

499.7 ± 8.53

triacontane (C30)

638-68-6

99.5

424.7.1.1P

500 ± 6.94

Let the standard warm to room temperature and sonicate before opening.

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-nr 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-nr 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-nr 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	8.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

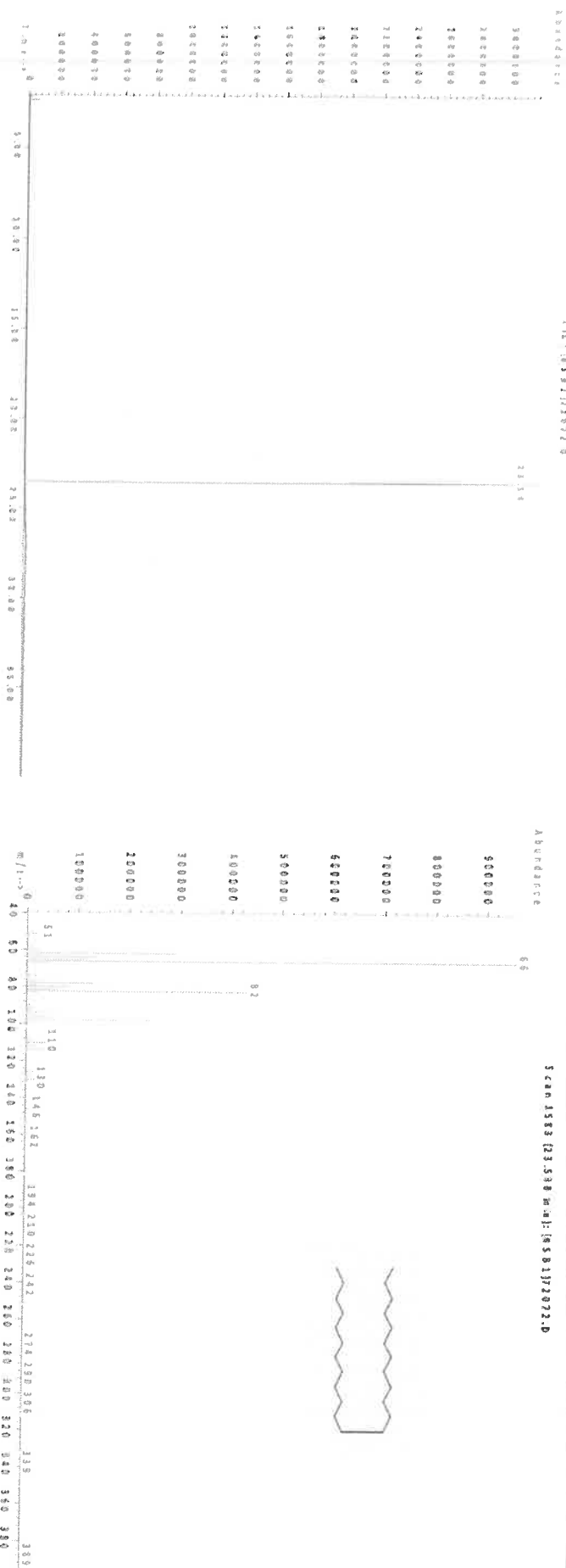
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04136	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04159	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04156	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

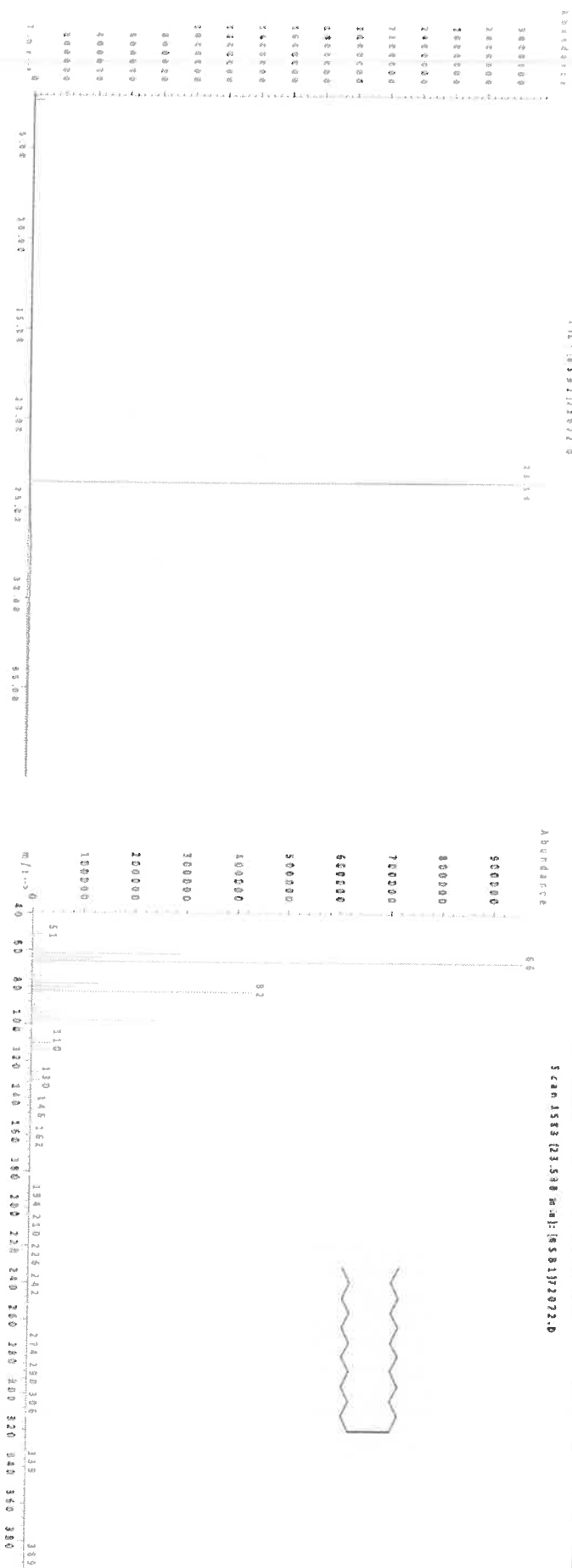
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1996).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



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Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	8.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

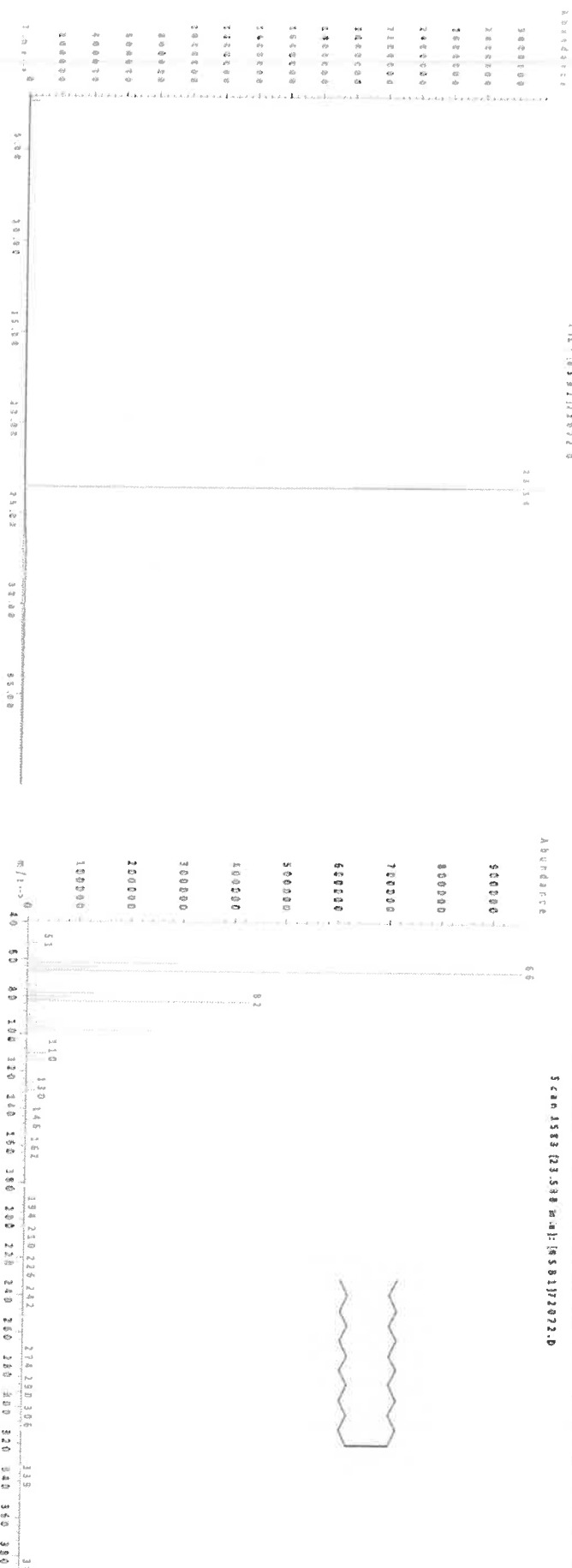
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%D)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

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Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

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Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3)(H)	N/A	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-26-2	N/A	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	8.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

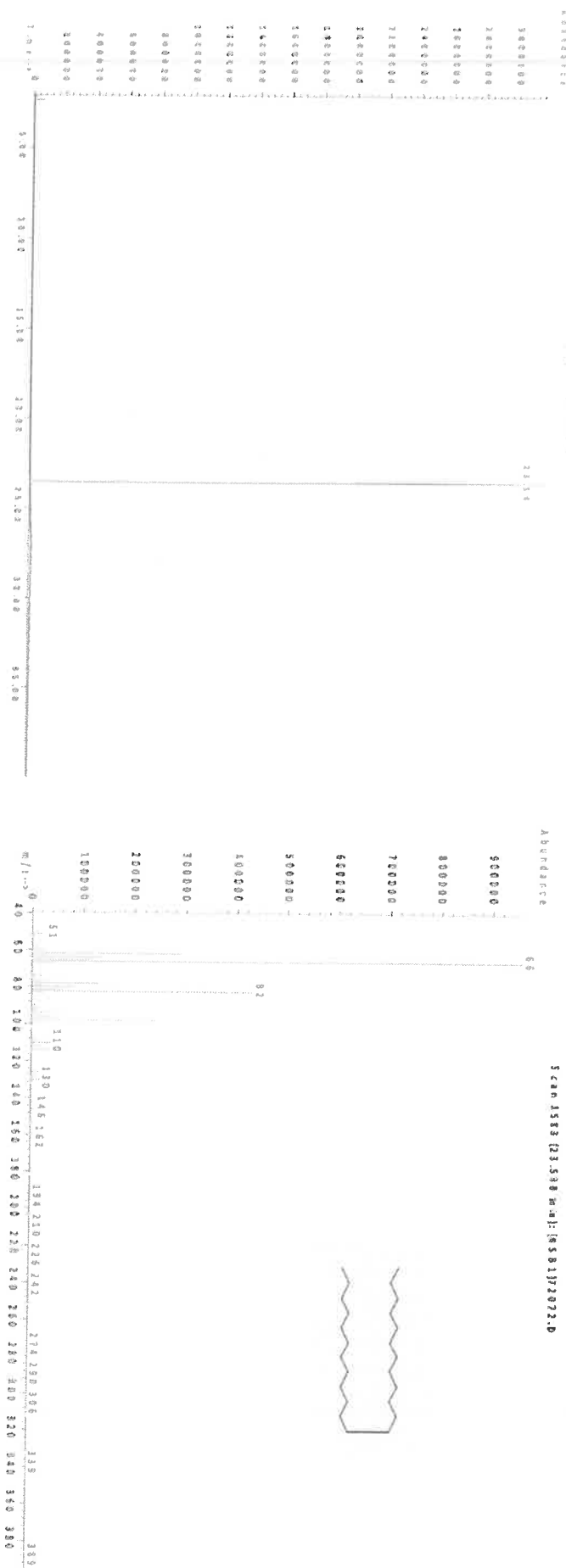
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%D)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: TPCL Engineering, LLCADDRESS: 2 Clenco Ln, Bldg 1CITY: Hillsborough STATE: NJ ZIP: 08844ATTENTION: PAUL ROTONDIPHONE: 609 203-3846 FAX: 609 460-4955

CLIENT PROJECT INFORMATION

PROJECT NAME: 1454-1460 Haddon AvePROJECT NO.: _____ LOCATION: CAMDEN, NJPROJECT MANAGER: P. Rotondie-mail: PRotondi@TPCLEngineering.comPHONE: 609 203-3846 FAX: _____

CLIENT BILLING INFORMATION

BILL TO: See Client

PO#:

ADDRESS:

CITY:

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*

HARDCOPY (DATA PACKAGE): _____ DAYS*

EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B+ Raw Data ☐ Other _____☐ EDD FORMAT _____EPH/DRO
VOC+10

PRESERVATIVES

COMMENTS

← Specify Preservatives

A-HCl D-NaOH

B-HNO3 E-ICE

C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	UST-1	Soil		X	12/5	11:02	2	2									
2.	UST-2	Soil		X	12/5	11:02	2	2									
3.	WP-1	Soil		X	12/5	9:44	3		3								
4.	WP-2	Soil		X		10:57	3		3								
5.	WP-3	Soil		X		11:11	3		3								
6.	WP-4	Soil		X		11:31	3		3								
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>12/6/13 02R</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.1</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>5-DAY TAT PLEASE</u> <u>TPCL #1</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 3. <u>[Signature]</u>	

Page 1 of 1CLIENT: ☒ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete

☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5194	JPCL01	Order Date : 12/6/2024 3:08:24 PM	Project Mgr : Yazmeen
Client Name : JPCL Engineering		Project Name : 1454 to 1460 Haddon Avenue	Report Type : NJ Reduced
Client Contact : Paul Rotondi		Receive DateTime : 12/6/2024 1:00:00 PM	EDD Type : Excel NY
Invoice Name : JPCL Engineering		Purchase Order :	Hard Copy Date :
Invoice Contact : Paul Rotondi			Date Signoff : 12/6/2024 4:13:46 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5194-03	WP-1	Solid	12/05/2024	09:44					
					VOC-TCLVOA-10		8260D	5 Bus. Days	
P5194-04	WP-2	Solid	12/05/2024	10:37					
					VOC-TCLVOA-10		8260D	5 Bus. Days	
P5194-05	WP-3	Solid	12/05/2024	11:11					
					VOC-TCLVOA-10		8260D	5 Bus. Days	
P5194-06	WP-4	Solid	12/05/2024	11:31					
					VOC-TCLVOA-10		8260D	5 Bus. Days	

Relinquished By : 

Date / Time : 12-10-24 14:48

Received By : 

Date / Time : 12-10-24 14:48

Storage Area : VOA Refridgerator Room