284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : CON EDISON NON-MGP - EAST RIVER 453648.60024.03

PARSONS ENGINEERING OF NEW YORK, INC.

301 Plainfield Road

Suite 350

Syracuse, NY - 13212

Phone No: 315-451-9560

ORDER ID : P5361

ATTENTION : Stephen Liberatore

Laboratory Certification ID # 20012

Table Of Contents for P5361

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Cover Page

Order ID : P5361

Project ID : Con Edison Non-MGP - East River 453648.60024.03

Client : PARSONS Engineering of New York, Inc.

Lab Sample Number	Client Sample Number
P5361-01	SB-01-20241219-7.0-7.5
P5361-02	SB-01-20241219-9.0-9.5

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: 3/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

PARSONS Main of New York, Inc.
Project Name: Con Edison Non-MGP - East River 453648.60024.03
Project # N/A
Chemtech Project # P5361
Test Name: TPH GC

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 12/19/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: PCB and TPH GC. This data package contains results for TPH GC.

C. Analytical Techniques:
The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of TPH GC was based on method 8015D and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.

The MS {P5361-02MS} with File ID: FG015020.D recoveries met the requirements for all compounds except for Petroleum Hydrocarbons[18%] Due to matrix interference.

The MSD {P5361-02MSD} with File ID: FG015026.D recoveries met the acceptable requirements except for Petroleum Hydrocarbons[19%] Due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

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 is 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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5361 MATRIX: Solid

METHOD: 8015D/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {P5361-02MS} with File ID: FG015020.D recoveries met the requirements for all compounds except for Petroleum Hydrocarbons[18%] Due to matrix interference. The MSD {P5361-02MSD} with File ID: FG015026.D recoveries met the acceptable requirements except for Petroleum Hydrocarbons[19%] Due to matrix interference. The Blank Spike met requirements for all samples . The RPD met criteria .		✓	
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
9.	Analysis Holding Time Met			✓

If not met, list those compounds and their recoveries which fall outside the acceptable range.

ADDITIONAL COMMENTS:

The soil samples results are based on a dry weight basis.

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5361

	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 Castody	✓
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: SOHIL JODHANI **Date:** 03/11/2025

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LAB CHRONICLE

OrderID:	P5361	**OrderDate:**	12/20/2024 10:02:00 AM
Client:	PARSONS Engineering of New York, Inc.	**Project:**	Con Edison Non-MGP - East River 453648.60024.03
Contact:	Stephen Liberatore	**Location:**	N12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5361-01	**SB-01-20241219-7.0-7.5**	**SOIL**			**12/19/24**			**12/19/24**
			PCB	8082A		12/20/24	12/20/24	
			TPH GC	8015D		12/23/24	12/23/24	
P5361-02	**SB-01-20241219-9.0-9.5**	**SOIL**			**12/19/24**			**12/19/24**
			PCB	8082A		12/20/24	12/20/24	
			TPH GC	8015D		12/23/24	12/23/24	

QC SUMMARY

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SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: PARSONS Engineering of New York, Inc.

Lab Code: CHEM Case No.: P5361 SAS No.: P5361 SDG No.: P5361

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG015014.D	95				0
PIBLK-FG015021.D	92				0
PIBLK-FG015028.D	92				0
SB-01-20241219-7.0-7.5	55				0
SB-01-20241219-9.0-9.5	62				0
SB-01-20241219-9.0-9.5MS	47				0
SB-01-20241219-9.0-9.5MSD	47				0
PB165807BL	80				0
PB165807BS	74				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

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** PARSONS Engineering of New York, Inc.

Lab Code: CHEM **Cas No:** P5361 **SAS No :** P5361 **SDG No:** P5361

Client SampleID : SB-01-20241219-9.0-9.5MS **Datafile:** FG015020.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12999	12800	15226	18%	*	68-131

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** PARSONS Engineering of New York, Inc.

Lab Code: CHEM **Cas No:** P5361 **SAS No :** P5361 **SDG No:** P5361

Client SampleID : SB-01-20241219-9.0-9.5MSD **Datafile:** FG015026.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12986	12800	15319	19%	*	68-131

MS/MSD % Recovery RPD : 3.7

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SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** PARSONS Engineering of New York, Inc.

Lab Code: CHEM **Cas No:** P5361 **SAS No :** P5361 **SDG No:** P5361

Matrix Spike - EPA Sample No : PB165807BS **Datafile:** FG015025.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11326	0	8193	72	68-131

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB165807BL

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: P5361 SAS No.: P5361 SDG NO.: P5361

Lab File ID: FG015024.D Lab Sample ID: PB165807BL

Instrument ID: FG Date Extracted: 12/23/2024

Matrix: (soil/water) Soil Date Analyzed: 12/23/24

Level: (low/med) low Time Analyzed: 15:44

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SB-01-20241219-7.0-7.5	P5361-01	FG015018.D	12/23/24
SB-01-20241219-9.0-9.5	P5361-02	FG015019.D	12/23/24
SB-01-20241219-9.0-9.5MS	P5361-02MS	FG015020.D	12/23/24
PB165807BS	PB165807BS	FG015025.D	12/23/24
SB-01-20241219-9.0-9.5MSD	P5361-02MSD	FG015026.D	12/23/24

COMMENTS:

Form IV

SAMPLE DATA

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Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	12/19/24
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	12/19/24
Client Sample ID:	SB-01-20241219-7.0-7.5	SDG No.:	P5361
Lab Sample ID:	P5361-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.7 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015018.D	1	12/23/24 08:35	12/23/24 12:26	PB165807

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	19800		346	3080	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.1		37 - 130	55%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015018.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 12:26
Operator : YP\AJ
Sample : P5361-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 24 00:27:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-7.0-7.5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.059	1482373	11.091 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015018.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 12:26
Operator : YP\AJ
Sample : P5361-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

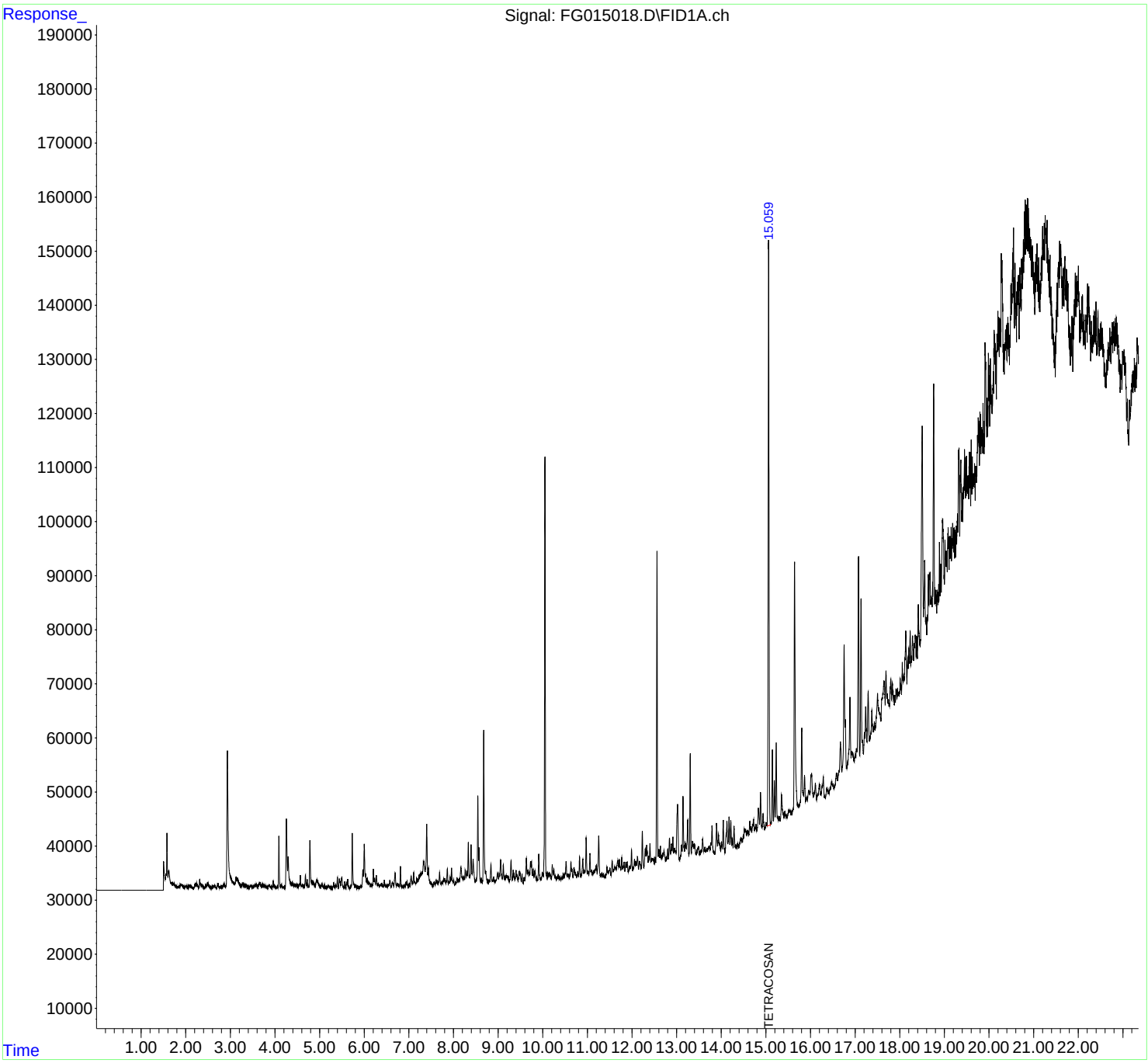
Integration File: autoint1.e
Quant Time: Dec 24 00:27:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

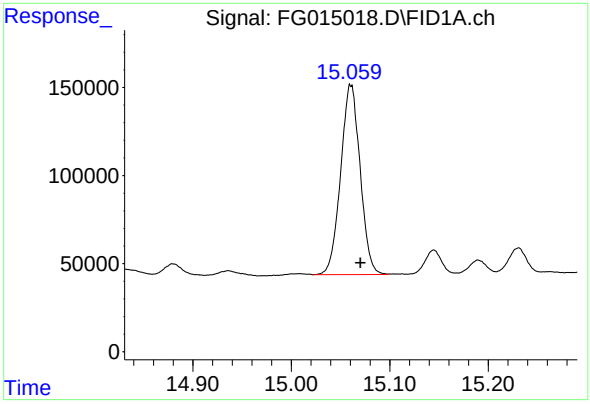
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-7.0-7.5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.059 min
Delta R.T.: -0.011 min
Response: 1482373
Conc: 11.09 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-7.0-7.5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-7.0-7.5

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG015018.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 12:26
Sample : P5361-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.907	1.900	1.933	BV	133	715	0.05%	0.001%
2	1.941	1.933	1.954	PV	95	836	0.05%	0.001%
3	1.957	1.954	1.979	PV	155	1383	0.09%	0.002%
4	1.983	1.979	1.986	PV	83	331	0.02%	0.000%
5	2.017	1.986	2.032	VV	324	5731	0.37%	0.008%
6	2.036	2.032	2.041	VV	193	706	0.05%	0.001%
7	2.064	2.041	2.074	VV	240	3407	0.22%	0.005%
8	2.096	2.074	2.149	VV	533	12422	0.81%	0.017%
9	2.157	2.149	2.175	VV	136	1427	0.09%	0.002%
10	2.209	2.175	2.236	PV	884	18230	1.19%	0.024%
11	2.244	2.236	2.292	VV	1080	18453	1.20%	0.025%
12	2.312	2.292	2.421	VV	1696	43709	2.85%	0.059%
13	2.450	2.421	2.471	VV	673	13499	0.88%	0.018%
14	2.490	2.471	2.530	VV	1049	23710	1.55%	0.032%
15	2.534	2.530	2.564	VV	318	4162	0.27%	0.006%
16	2.568	2.564	2.582	VV	134	1344	0.09%	0.002%
17	2.614	2.582	2.626	VV	399	7492	0.49%	0.010%
18	2.643	2.626	2.687	VV	606	13260	0.86%	0.018%
19	2.720	2.687	2.772	VV	1027	21445	1.40%	0.029%
20	2.794	2.772	2.818	VV	486	8350	0.54%	0.011%
21	2.854	2.818	2.889	VV	857	23099	1.51%	0.031%
22	2.933	2.889	3.080	VV	25507	558310	36.40%	0.748%
23	3.084	3.080	3.103	VV	967	13236	0.86%	0.018%
24	3.128	3.103	3.142	VV	2104	36200	2.36%	0.049%
25	3.155	3.142	3.175	VV	2067	32881	2.14%	0.044%
26	3.178	3.175	3.244	VV	1446	34768	2.27%	0.047%
27	3.274	3.244	3.338	VV	886	36963	2.41%	0.050%
28	3.341	3.338	3.346	VV	505	2362	0.15%	0.003%
29	3.350	3.346	3.397	VV	553	11670	0.76%	0.016%
30	3.406	3.397	3.416	VV	299	2801	0.18%	0.004%
31	3.440	3.416	3.447	VV	478	6436	0.42%	0.009%

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-7.0-7.5

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

rteres

32	3.453	3.447	3.461	VV	434	3494	0.23%	0.005%
33	3.468	3.461	3.495	VV	482	834		
34	3.502	3.495	3.520	VV	425	525		
35	3.541	3.520	3.563	VV	630	1271		
36	3.580	3.563	3.606	VV	870	1576		
37	3.612	3.606	3.617	VV	437	2706	0.18%	0.004%
38	3.657	3.617	3.695	VV	1127	32252	2.10%	0.043%
39	3.719	3.695	3.734	VV	729	13381	0.87%	0.018%
40	3.745	3.734	3.761	VV	620	8017	0.52%	0.011%
41	3.773	3.761	3.805	VV	636	11380	0.74%	0.015%
42	3.817	3.805	3.834	VV	271	4289	0.28%	0.006%
43	3.866	3.834	3.907	VV	704	19096	1.24%	0.026%
44	3.911	3.907	3.921	VV	302	2158	0.14%	0.003%
45	3.924	3.921	3.936	VV	260	2063	0.13%	0.003%
46	3.958	3.936	3.995	VV	1396	23343	1.52%	0.031%
47	4.006	3.995	4.030	VV	448	5871	0.38%	0.008%
48	4.035	4.030	4.050	VV	223	2297	0.15%	0.003%
49	4.056	4.050	4.061	VV	274	1455	0.09%	0.002%
50	4.087	4.061	4.131	VV	9697	105043	6.85%	0.141%
51	4.141	4.131	4.176	VV	747	11656	0.76%	0.016%
52	4.184	4.176	4.200	VV	315	4103	0.27%	0.005%
53	4.205	4.200	4.223	VV	319	3083	0.20%	0.004%
54	4.255	4.223	4.281	VV	12850	205873	13.42%	0.276%
55	4.296	4.281	4.379	VV	5959	132643	8.65%	0.178%
56	4.390	4.379	4.417	VV	990	18938	1.23%	0.025%
57	4.419	4.417	4.438	VV	669	7572	0.49%	0.010%
58	4.441	4.438	4.453	VV	651	5272	0.34%	0.007%
59	4.462	4.453	4.487	VV	608	10146	0.66%	0.014%
60	4.504	4.487	4.532	VV	646	13639	0.89%	0.018%
61	4.568	4.532	4.589	VV	2535	31706	2.07%	0.043%
62	4.598	4.589	4.606	VV	602	5632	0.37%	0.008%
63	4.610	4.606	4.616	VV	478	2670	0.17%	0.004%
64	4.624	4.616	4.641	VV	613	7355	0.48%	0.010%
65	4.647	4.641	4.665	VV	428	5774	0.38%	0.008%
66	4.683	4.665	4.706	VV	2539	33879	2.21%	0.045%
67	4.723	4.706	4.760	VV	1741	25400	1.66%	0.034%
68	4.783	4.760	4.830	VV	8967	128688	8.39%	0.173%
69	4.835	4.830	4.846	VV	1155	11305	0.74%	0.015%
70	4.854	4.846	4.860	VV	1209	8992	0.59%	0.012%
71	4.867	4.860	4.908	VV	1166	24567	1.60%	0.033%
72	4.944	4.908	4.989	VV	1739	56721	3.70%	0.076%
73	4.993	4.989	5.033	VV	624	12864	0.84%	0.017%
74	5.054	5.033	5.087	VV	1025	18610	1.21%	0.025%
75	5.107	5.087	5.163	VV	716	15720	1.02%	0.021%
76	5.203	5.163	5.231	VV	569	15147	0.99%	0.020%
77	5.237	5.231	5.255	VV	269	2925	0.19%	0.004%
78	5.260	5.255	5.280	VV	208	2165	0.14%	0.003%
79	5.314	5.280	5.335	PV	1132	15659	1.02%	0.021%

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80	5.356	5.335	5.371	VV	638	9373	0.61%	0.013%
81	5.376	5.371	5.383	VV	516	340		
82	5.399	5.383	5.421	VV	2076	2334		
83	5.442	5.421	5.453	VV	1845	2058		
84	5.457	5.453	5.473	VV	1258	1160		
85	5.498	5.473	5.530	VV	2147	40304	2.63%	0.054%
86	5.538	5.530	5.546	VV	364	2929	0.19%	0.004%
87	5.563	5.546	5.581	VV	1313	14535	0.95%	0.019%
88	5.604	5.581	5.616	VV	1103	13608	0.89%	0.018%
89	5.631	5.616	5.673	VV	1722	23983	1.56%	0.032%
90	5.678	5.673	5.683	VV	126	329	0.02%	0.000%
91	5.704	5.683	5.712	VV	683	7205	0.47%	0.010%
92	5.732	5.712	5.789	VV	10277	127719	8.33%	0.171%
93	5.806	5.789	5.841	VV	744	11825	0.77%	0.016%
94	5.857	5.841	5.879	VV	296	3971	0.26%	0.005%
95	5.890	5.879	5.896	PV	126	911	0.06%	0.001%
96	5.916	5.896	5.938	VV	502	7238	0.47%	0.010%
97	5.969	5.938	5.982	VV	3354	47118	3.07%	0.063%
98	6.001	5.982	6.023	VV	8216	117115	7.63%	0.157%
99	6.031	6.023	6.051	VV	2642	32883	2.14%	0.044%
100	6.066	6.051	6.098	VV	1896	37491	2.44%	0.050%
101	6.110	6.098	6.134	VV	982	16519	1.08%	0.022%
102	6.141	6.134	6.160	VV	588	8091	0.53%	0.011%
103	6.171	6.160	6.183	VV	603	7429	0.48%	0.010%
104	6.205	6.183	6.221	VV	3535	43162	2.81%	0.058%
105	6.233	6.221	6.251	VV	1819	24006	1.56%	0.032%
106	6.271	6.251	6.300	VV	2359	37737	2.46%	0.051%
107	6.318	6.300	6.344	VV	842	14303	0.93%	0.019%
108	6.367	6.344	6.371	VV	595	8434	0.55%	0.011%
109	6.385	6.371	6.410	VV	644	11883	0.77%	0.016%
110	6.419	6.410	6.431	VV	351	3802	0.25%	0.005%
111	6.449	6.431	6.485	VV	1460	20142	1.31%	0.027%
112	6.498	6.485	6.514	VV	441	5138	0.33%	0.007%
113	6.541	6.514	6.550	VV	583	7457	0.49%	0.010%
114	6.576	6.550	6.605	VV	1323	21749	1.42%	0.029%
115	6.629	6.605	6.641	VV	873	12056	0.79%	0.016%
116	6.644	6.641	6.665	VV	770	7319	0.48%	0.010%
117	6.693	6.665	6.719	VV	2718	43666	2.85%	0.059%
118	6.735	6.719	6.751	VV	764	10013	0.65%	0.013%
119	6.765	6.751	6.783	VV	623	6993	0.46%	0.009%
120	6.811	6.783	6.842	VV	3866	42069	2.74%	0.056%
121	6.847	6.842	6.855	VV	140	760	0.05%	0.001%
122	6.868	6.855	6.884	VV	232	1894	0.12%	0.003%
123	6.890	6.884	6.895	VV	79	262	0.02%	0.000%
124	6.915	6.895	6.921	PV	293	2865	0.19%	0.004%
125	6.935	6.921	6.950	VV	976	11661	0.76%	0.016%
126	6.960	6.950	6.987	VV	892	10960	0.71%	0.015%

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127	7.010	6.987	7.025	VV	442	6977	0.45%	0.009%
128	7.051	7.025	7.087	VV	1933	3975		
129	7.107	7.087	7.156	VV	2668	4819		
130	7.177	7.156	7.205	VV	1448	3281		
131	7.227	7.205	7.246	VV	2104	4085		
132	7.268	7.246	7.286	VV	2449	54136	3.53%	0.073%
133	7.333	7.286	7.363	VV	4741	154704	10.09%	0.207%
134	7.399	7.363	7.426	VV	11565	207120	13.50%	0.278%
135	7.439	7.426	7.487	VV	3455	58927	3.84%	0.079%
136	7.495	7.487	7.535	VV	620	10099	0.66%	0.014%
137	7.551	7.535	7.555	VV	308	2506	0.16%	0.003%
138	7.572	7.555	7.589	VV	690	9270	0.60%	0.012%
139	7.607	7.589	7.618	VV	1019	11741	0.77%	0.016%
140	7.630	7.618	7.654	VV	961	15330	1.00%	0.021%
141	7.687	7.654	7.719	VV	2519	42823	2.79%	0.057%
142	7.725	7.719	7.729	VV	515	2866	0.19%	0.004%
143	7.743	7.729	7.754	VV	664	8459	0.55%	0.011%
144	7.783	7.754	7.794	VV	1289	22374	1.46%	0.030%
145	7.809	7.794	7.827	VV	1374	20030	1.31%	0.027%
146	7.861	7.827	7.885	VV	3133	49009	3.19%	0.066%
147	7.895	7.885	7.906	VV	668	6428	0.42%	0.009%
148	7.925	7.906	7.941	VV	1550	22566	1.47%	0.030%
149	7.957	7.941	7.990	VV	3270	46875	3.06%	0.063%
150	8.005	7.990	8.024	VV	1092	12903	0.84%	0.017%
151	8.057	8.024	8.064	VV	580	8602	0.56%	0.012%
152	8.078	8.064	8.099	VV	1340	20845	1.36%	0.028%
153	8.119	8.099	8.136	VV	1085	21179	1.38%	0.028%
154	8.165	8.136	8.199	VV	3186	77269	5.04%	0.104%
155	8.208	8.199	8.224	VV	1419	19713	1.29%	0.026%
156	8.235	8.224	8.246	VV	1363	16251	1.06%	0.022%
157	8.263	8.246	8.279	VV	2739	40178	2.62%	0.054%
158	8.297	8.279	8.312	VV	2605	39616	2.58%	0.053%
159	8.332	8.312	8.356	VV	7916	102522	6.68%	0.137%
160	8.365	8.356	8.372	VV	1700	15424	1.01%	0.021%
161	8.394	8.372	8.422	VV	7466	112189	7.31%	0.150%
162	8.440	8.422	8.486	VV	4677	93783	6.11%	0.126%
163	8.504	8.486	8.515	VV	979	13143	0.86%	0.018%
164	8.546	8.515	8.562	VV	16496	196545	12.81%	0.263%
165	8.572	8.562	8.614	VV	6827	89703	5.85%	0.120%
166	8.629	8.614	8.646	VV	840	12756	0.83%	0.017%
167	8.677	8.646	8.714	VV	28545	363919	23.72%	0.488%
168	8.723	8.714	8.758	VV	2416	38181	2.49%	0.051%
169	8.773	8.758	8.785	VV	693	9231	0.60%	0.012%
170	8.799	8.785	8.808	VV	621	7591	0.49%	0.010%
171	8.840	8.808	8.881	VV	3683	63915	4.17%	0.086%
172	8.899	8.881	8.921	VV	1363	20988	1.37%	0.028%
173	8.990	8.921	9.008	VV	1924	54006	3.52%	0.072%
174	9.025	9.008	9.035	VV	1907	24504	1.60%	0.033%

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175	9.056	9.035	9.099	VV	4431	89598	5.84%	0.120%
176	9.117	9.099	9.138	VV	3557	4772		
177	9.150	9.138	9.163	VV	1224	1643		
178	9.178	9.163	9.189	VV	1640	2009		
179	9.204	9.189	9.226	VV	1549	2843		
180	9.228	9.226	9.250	VV	1125	10286	0.67%	0.014%
181	9.290	9.250	9.317	VV	4262	70992	4.63%	0.095%
182	9.339	9.317	9.379	VV	2522	52203	3.40%	0.070%
183	9.402	9.379	9.415	VV	2409	33972	2.21%	0.046%
184	9.423	9.415	9.440	VV	1570	17687	1.15%	0.024%
185	9.472	9.440	9.482	VV	2235	34062	2.22%	0.046%
186	9.492	9.482	9.519	VV	1822	27599	1.80%	0.037%
187	9.536	9.519	9.559	VV	1711	19011	1.24%	0.025%
188	9.579	9.559	9.595	PV	1065	12787	0.83%	0.017%
189	9.633	9.595	9.652	VV	4557	74061	4.83%	0.099%
190	9.665	9.652	9.691	VV	2337	46851	3.05%	0.063%
191	9.696	9.691	9.702	VV	1738	10860	0.71%	0.015%
192	9.727	9.702	9.738	VV	3950	58768	3.83%	0.079%
193	9.748	9.738	9.768	VV	3863	49338	3.22%	0.066%
194	9.785	9.768	9.802	VV	2484	35808	2.33%	0.048%
195	9.826	9.802	9.850	VV	2124	40994	2.67%	0.055%
196	9.857	9.850	9.886	VV	809	11721	0.76%	0.016%
197	9.911	9.886	9.942	VV	5189	72032	4.70%	0.097%
198	9.946	9.942	9.966	VV	642	7768	0.51%	0.010%
199	9.990	9.966	10.010	VV	1735	29952	1.95%	0.040%
200	10.050	10.010	10.074	VV	78494	868230	56.60%	1.164%
201	10.081	10.074	10.096	VV	1541	15970	1.04%	0.021%
202	10.119	10.096	10.138	VV	1458	29035	1.89%	0.039%
203	10.153	10.138	10.161	VV	1385	17635	1.15%	0.024%
204	10.164	10.161	10.195	VV	1341	17263	1.13%	0.023%
205	10.213	10.195	10.233	VV	3000	40527	2.64%	0.054%
206	10.250	10.233	10.269	VV	2091	31569	2.06%	0.042%
207	10.281	10.269	10.308	VV	907	14077	0.92%	0.019%
208	10.351	10.308	10.370	VV	1014	23686	1.54%	0.032%
209	10.375	10.370	10.384	VV	420	2896	0.19%	0.004%
210	10.395	10.384	10.410	VV	386	4737	0.31%	0.006%
211	10.424	10.410	10.444	VV	633	8292	0.54%	0.011%
212	10.461	10.444	10.477	VV	1173	14664	0.96%	0.020%
213	10.524	10.477	10.546	VV	3346	64587	4.21%	0.087%
214	10.562	10.546	10.572	VV	1036	13559	0.88%	0.018%
215	10.577	10.572	10.597	VV	957	11039	0.72%	0.015%
216	10.632	10.597	10.645	VV	3220	46798	3.05%	0.063%
217	10.653	10.645	10.680	VV	1876	24521	1.60%	0.033%
218	10.698	10.680	10.712	VV	2135	26865	1.75%	0.036%
219	10.716	10.712	10.762	VV	1401	26551	1.73%	0.036%
220	10.784	10.762	10.800	VV	1375	19890	1.30%	0.027%
221	10.825	10.800	10.846	VV	4098	50982	3.32%	0.068%

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222	10.856	10.846	10.864	VV	739	6568	0.43%	0.009%
223	10.896	10.864	10.918	VV	3597	6153		
224	10.935	10.918	10.946	VV	1367	2043		
225	10.972	10.946	10.995	VV	7487	10276		
226	11.011	10.995	11.033	VV	1174	2272		
227	11.057	11.033	11.076	VV	4548	60951	3.97%	0.082%
228	11.093	11.076	11.111	VV	1474	24439	1.59%	0.033%
229	11.124	11.111	11.132	VV	1011	10962	0.71%	0.015%
230	11.161	11.132	11.167	VV	1154	21154	1.38%	0.028%
231	11.200	11.167	11.219	VV	2322	50401	3.29%	0.068%
232	11.254	11.219	11.290	VV	7690	122231	7.97%	0.164%
233	11.301	11.290	11.311	VV	561	5839	0.38%	0.008%
234	11.327	11.311	11.348	VV	727	9232	0.60%	0.012%
235	11.363	11.348	11.386	VV	420	4611	0.30%	0.006%
236	11.390	11.386	11.397	VV	120	494	0.03%	0.001%
237	11.439	11.397	11.456	PV	1813	26388	1.72%	0.035%
238	11.462	11.456	11.472	VV	796	6573	0.43%	0.009%
239	11.506	11.472	11.530	VV	1391	28201	1.84%	0.038%
240	11.554	11.530	11.582	VV	2599	42325	2.76%	0.057%
241	11.608	11.582	11.618	VV	1553	25634	1.67%	0.034%
242	11.625	11.618	11.630	VV	1329	8425	0.55%	0.011%
243	11.637	11.630	11.652	VV	1308	16253	1.06%	0.022%
244	11.683	11.652	11.701	VV	2597	57441	3.74%	0.077%
245	11.718	11.701	11.751	VV	2642	49522	3.23%	0.066%
246	11.769	11.751	11.787	VV	3048	39106	2.55%	0.052%
247	11.798	11.787	11.805	VV	1073	10569	0.69%	0.014%
248	11.821	11.805	11.844	VV	2023	30021	1.96%	0.040%
249	11.861	11.844	11.877	VV	1988	26268	1.71%	0.035%
250	11.893	11.877	11.918	VV	1997	25656	1.67%	0.034%
251	11.941	11.918	11.966	VV	922	19959	1.30%	0.027%
252	11.989	11.966	12.012	VV	4061	51982	3.39%	0.070%
253	12.027	12.012	12.035	VV	704	6417	0.42%	0.009%
254	12.056	12.035	12.074	VV	2209	31726	2.07%	0.043%
255	12.086	12.074	12.104	VV	1742	25297	1.65%	0.034%
256	12.122	12.104	12.147	VV	2591	40158	2.62%	0.054%
257	12.166	12.147	12.208	VV	1561	33372	2.18%	0.045%
258	12.231	12.208	12.264	VV	7076	93611	6.10%	0.125%
259	12.298	12.264	12.313	VV	3777	64952	4.23%	0.087%
260	12.329	12.313	12.361	VV	4391	81766	5.33%	0.110%
261	12.377	12.361	12.388	VV	2134	27290	1.78%	0.037%
262	12.402	12.388	12.421	VV	4516	55361	3.61%	0.074%
263	12.445	12.421	12.454	VV	1695	27494	1.79%	0.037%
264	12.463	12.454	12.476	VV	1760	20300	1.32%	0.027%
265	12.482	12.476	12.498	VV	1456	15316	1.00%	0.021%
266	12.515	12.498	12.532	VV	1732	25246	1.65%	0.034%
267	12.560	12.532	12.588	VV	58286	650189	42.39%	0.872%
268	12.604	12.588	12.622	VV	2996	50302	3.28%	0.067%
269	12.637	12.622	12.657	VV	3711	50613	3.30%	0.068%

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270	12.668	12.657	12.676	VV	1639	18152	1.18%	0.024%
271	12.690	12.676	12.699	VV	2309	2726		
272	12.717	12.699	12.754	VV	2773	6036		
273	12.763	12.754	12.767	VV	1069	745		
274	12.773	12.767	12.779	VV	1075	714		
275	12.801	12.779	12.815	VV	2809	41248	2.69%	0.055%
276	12.840	12.815	12.863	VV	4829	81671	5.32%	0.109%
277	12.887	12.863	12.900	VV	3688	60878	3.97%	0.082%
278	12.917	12.900	12.934	VV	4871	72516	4.73%	0.097%
279	12.952	12.934	12.969	VV	2721	48918	3.19%	0.066%
280	12.976	12.969	12.987	VV	2228	23139	1.51%	0.031%
281	13.022	12.987	13.066	VV	10756	241638	15.75%	0.324%
282	13.110	13.066	13.123	VV	3126	57059	3.72%	0.076%
283	13.144	13.123	13.178	VV	11933	175445	11.44%	0.235%
284	13.196	13.178	13.214	VV	3266	56875	3.71%	0.076%
285	13.248	13.214	13.276	VV	7481	136486	8.90%	0.183%
286	13.305	13.276	13.329	VV	19744	236767	15.44%	0.317%
287	13.359	13.329	13.382	VV	3389	80170	5.23%	0.107%
288	13.396	13.382	13.429	VV	2848	59402	3.87%	0.080%
289	13.488	13.429	13.525	VV	2173	79848	5.21%	0.107%
290	13.546	13.525	13.556	VV	1465	21373	1.39%	0.029%
291	13.583	13.556	13.614	VV	3426	69066	4.50%	0.093%
292	13.635	13.614	13.656	VV	1808	33232	2.17%	0.045%
293	13.672	13.656	13.681	VV	1349	16886	1.10%	0.023%
294	13.716	13.681	13.748	VV	1781	57409	3.74%	0.077%
295	13.766	13.748	13.776	VV	2488	33258	2.17%	0.045%
296	13.793	13.776	13.828	VV	5506	79107	5.16%	0.106%
297	13.831	13.828	13.856	VV	661	7737	0.50%	0.010%
298	13.894	13.856	13.918	VV	5806	97758	6.37%	0.131%
299	13.936	13.918	13.987	VV	3775	86175	5.62%	0.116%
300	14.006	13.987	14.025	VV	2139	33918	2.21%	0.045%
301	14.045	14.025	14.083	VV	6058	81556	5.32%	0.109%
302	14.128	14.083	14.150	PV	5760	110202	7.18%	0.148%
303	14.174	14.150	14.192	VV	6430	88550	5.77%	0.119%
304	14.214	14.192	14.233	VV	5645	76446	4.98%	0.102%
305	14.246	14.233	14.265	VV	2287	29510	1.92%	0.040%
306	14.286	14.265	14.317	VV	4339	59489	3.88%	0.080%
307	14.329	14.317	14.349	VV	813	10589	0.69%	0.014%
308	14.367	14.349	14.391	VV	936	13418	0.87%	0.018%
309	14.434	14.391	14.445	PV	1581	28170	1.84%	0.038%
310	14.449	14.445	14.467	VV	1407	14691	0.96%	0.020%
311	14.490	14.467	14.504	VV	1784	28372	1.85%	0.038%
312	14.519	14.504	14.530	VV	2981	38403	2.50%	0.051%
313	14.541	14.530	14.563	VV	2680	44841	2.92%	0.060%
314	14.599	14.563	14.618	VV	2235	63173	4.12%	0.085%
315	14.639	14.618	14.654	VV	3752	58102	3.79%	0.078%
316	14.666	14.654	14.682	VV	2604	37157	2.42%	0.050%

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317	14.704	14.682	14.708	VV	2899	37878	2.47%	0.051%
318	14.723	14.708	14.749	VV	3713	6712		
319	14.775	14.749	14.801	VV	2513	5855		
320	14.831	14.801	14.859	VV	5204	11448		
321	14.880	14.859	14.912	VV	7900	12805		
322	14.936	14.912	14.970	VV	3788	71177	4.64%	0.095%
323	15.008	14.970	15.023	VV	1746	38717	2.52%	0.052%
324	15.060	15.023	15.111	VV	107850	1533961	100.00%	2.056%
325	15.112	15.111	15.119	VV	1118	4461	0.29%	0.006%
326	15.145	15.119	15.170	VV	14573	183174	11.94%	0.246%
327	15.190	15.170	15.209	VV	8591	111677	7.28%	0.150%
328	15.231	15.209	15.254	VV	15455	205642	13.41%	0.276%
329	15.262	15.254	15.284	VV	1639	23806	1.55%	0.032%
330	15.301	15.284	15.321	VV	1442	23762	1.55%	0.032%
331	15.350	15.321	15.386	VV	5322	106916	6.97%	0.143%
332	15.387	15.386	15.409	VV	1743	15572	1.02%	0.021%
333	15.426	15.409	15.457	VV	1911	34583	2.25%	0.046%
334	15.461	15.457	15.474	VV	842	6306	0.41%	0.008%
335	15.514	15.474	15.526	VV	1532	32864	2.14%	0.044%
336	15.537	15.526	15.580	VV	1472	34907	2.28%	0.047%
337	15.642	15.580	15.741	VV	46878	854189	55.69%	1.145%
338	15.803	15.741	15.844	VV	15269	301679	19.67%	0.404%
339	15.867	15.844	15.890	VV	6240	109378	7.13%	0.147%
340	15.906	15.890	15.929	VV	2078	42335	2.76%	0.057%
341	15.960	15.929	15.986	VV	3036	85185	5.55%	0.114%
342	16.013	15.986	16.020	VV	5823	86011	5.61%	0.115%
343	16.024	16.020	16.065	VV	5942	90944	5.93%	0.122%
344	16.083	16.065	16.092	VV	2126	30139	1.96%	0.040%
345	16.109	16.092	16.139	VV	3795	64050	4.18%	0.086%
346	16.163	16.139	16.170	VV	1502	22692	1.48%	0.030%
347	16.195	16.170	16.200	VV	3186	39505	2.58%	0.053%
348	16.205	16.200	16.224	VV	3003	31434	2.05%	0.042%
349	16.286	16.224	16.310	VV	4067	106114	6.92%	0.142%
350	16.319	16.310	16.325	VV	310	1524	0.10%	0.002%
351	16.367	16.325	16.387	PV	1453	25273	1.65%	0.034%
352	16.393	16.387	16.412	VV	784	7612	0.50%	0.010%
353	16.440	16.412	16.454	VV	946	15116	0.99%	0.020%
354	16.474	16.454	16.494	VV	1829	31351	2.04%	0.042%
355	16.505	16.494	16.521	VV	1100	12768	0.83%	0.017%
356	16.583	16.521	16.602	PV	2342	50640	3.30%	0.068%
357	16.638	16.602	16.644	VV	2242	38624	2.52%	0.052%
358	16.670	16.644	16.703	VV	7313	152061	9.91%	0.204%
359	16.753	16.703	16.773	VV	24334	400661	26.12%	0.537%
360	16.780	16.773	16.804	VV	10387	115294	7.52%	0.155%
361	16.812	16.804	16.816	VV	1261	8814	0.57%	0.012%
362	16.884	16.816	16.908	VV	13458	272078	17.74%	0.365%
363	16.922	16.908	16.937	VV	3075	46311	3.02%	0.062%
364	16.946	16.937	16.977	VV	2656	43031	2.81%	0.058%

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365	17.002	16.977	17.009	VV	1683	22703	1.48%	0.030%
366	17.027	17.009	17.043	VV	2594	3982		
367	17.076	17.043	17.101	VV	37349	54147		
368	17.133	17.101	17.155	VV	29252	37613		
369	17.160	17.155	17.187	VV	2752	3114		
370	17.208	17.187	17.218	PV	3737	40569	2.64%	0.054%
371	17.237	17.218	17.261	VV	8109	125558	8.19%	0.168%
372	17.293	17.261	17.320	VV	10174	171105	11.15%	0.229%
373	17.332	17.320	17.340	VV	1372	12751	0.83%	0.017%
374	17.375	17.340	17.400	VV	5653	107833	7.03%	0.145%
375	17.417	17.400	17.422	VV	2061	22185	1.45%	0.030%
376	17.434	17.422	17.449	VV	2783	33431	2.18%	0.045%
377	17.457	17.449	17.461	VV	1638	10975	0.72%	0.015%
378	17.502	17.461	17.521	VV	7181	157805	10.29%	0.212%
379	17.530	17.521	17.542	VV	4124	45446	2.96%	0.061%
380	17.548	17.542	17.578	VV	3013	48398	3.16%	0.065%
381	17.622	17.578	17.628	VV	5720	128276	8.36%	0.172%
382	17.643	17.628	17.673	VV	7626	166581	10.86%	0.223%
383	17.692	17.673	17.710	VV	8709	133724	8.72%	0.179%
384	17.719	17.710	17.730	VV	4274	41899	2.73%	0.056%
385	17.736	17.730	17.741	VV	3047	18557	1.21%	0.025%
386	17.747	17.741	17.760	VV	2798	25375	1.65%	0.034%
387	17.764	17.760	17.769	VV	1895	8514	0.56%	0.011%
388	17.799	17.769	17.816	VV	5921	109240	7.12%	0.146%
389	17.833	17.816	17.847	VV	4823	64454	4.20%	0.086%
390	17.851	17.847	17.860	VV	2928	18149	1.18%	0.024%
391	17.865	17.860	17.880	VV	2095	13964	0.91%	0.019%
392	17.892	17.880	17.902	VV	1807	15100	0.98%	0.020%
393	17.915	17.902	17.921	VV	2584	17925	1.17%	0.024%
394	17.926	17.921	17.938	VV	2307	16497	1.08%	0.022%
395	17.950	17.938	17.959	VV	2189	19434	1.27%	0.026%
396	17.965	17.959	17.983	VV	1454	14554	0.95%	0.020%
397	18.010	17.983	18.025	VV	3316	40949	2.67%	0.055%
398	18.032	18.025	18.039	VV	1736	10588	0.69%	0.014%
399	18.057	18.039	18.085	PV	5671	76462	4.98%	0.103%
400	18.091	18.085	18.102	VV	2586	22768	1.48%	0.031%
401	18.113	18.102	18.117	VV	5509	39690	2.59%	0.053%
402	18.135	18.117	18.160	VV	10395	154848	10.09%	0.208%
403	18.179	18.160	18.190	VV	4699	59410	3.87%	0.080%
404	18.200	18.190	18.219	VV	6257	75624	4.93%	0.101%
405	18.233	18.219	18.247	VV	8861	97297	6.34%	0.130%
406	18.253	18.247	18.259	VV	3693	21199	1.38%	0.028%
407	18.265	18.259	18.270	VV	3820	23868	1.56%	0.032%
408	18.286	18.270	18.309	VV	7261	120211	7.84%	0.161%
409	18.325	18.309	18.336	VV	5287	69936	4.56%	0.094%
410	18.346	18.336	18.366	VV	6537	98736	6.44%	0.132%
411	18.378	18.366	18.394	VV	5936	73544	4.79%	0.099%

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412	18.414	18.394	18.458	VV	11088	218806	14.26%	0.293%	
413	18.502	18.458	18.529	VV	42918	92055			
414	18.558	18.529	18.576	VV	17188	31542			
415	18.584	18.576	18.589	VV	6366	4584			
416	18.595	18.589	18.604	VV	5968	4376			
417	18.622	18.604	18.627	VV	6221	71931	4.69%	0.096%	
418	18.641	18.627	18.653	VV	13345	162792	10.61%	0.218%	
419	18.665	18.653	18.674	VV	12977	137474	8.96%	0.184%	
420	18.678	18.674	18.698	VV	13336	145629	9.49%	0.195%	
421	18.703	18.698	18.710	VV	8415	61038	3.98%	0.082%	
422	18.714	18.710	18.725	VV	8041	67160	4.38%	0.090%	
423	18.734	18.725	18.739	VV	10605	71128	4.64%	0.095%	
424	18.760	18.739	18.782	VV	46736	650032	42.38%	0.871%	
425	18.787	18.782	18.799	VV	8853	76909	5.01%	0.103%	
426	18.807	18.799	18.828	VV	8030	108290	7.06%	0.145%	
427	18.836	18.828	18.854	VV	7696	94027	6.13%	0.126%	
428	18.871	18.854	18.877	VV	8266	86148	5.62%	0.115%	
429	18.888	18.877	18.903	VV	15772	158192	10.31%	0.212%	
430	18.915	18.903	18.929	VV	11334	141384	9.22%	0.190%	
431	18.963	18.929	19.000	VV	19004	564296	36.79%	0.756%	
432	19.014	19.000	19.034	VV	14198	208293	13.58%	0.279%	
433	19.040	19.034	19.063	VV	11957	172471	11.24%	0.231%	
434	19.084	19.063	19.089	VV	15720	211336	13.78%	0.283%	
435	19.094	19.089	19.104	VV	13836	95216	6.21%	0.128%	
436	19.118	19.104	19.128	VV	13511	175556	11.44%	0.235%	
437	19.137	19.128	19.143	VV	13280	96780	6.31%	0.130%	
438	19.151	19.143	19.159	VV	14710	114752	7.48%	0.154%	
439	19.169	19.159	19.176	VV	12386	113533	7.40%	0.152%	
440	19.185	19.176	19.192	VV	14932	125571	8.19%	0.168%	
441	19.198	19.192	19.205	VV	13847	88094	5.74%	0.118%	
442	19.220	19.205	19.228	VV	13518	158539	10.34%	0.213%	
443	19.236	19.228	19.253	VV	12879	167369	10.91%	0.224%	
444	19.267	19.253	19.275	VV	13311	152002	9.91%	0.204%	
445	19.293	19.275	19.300	VV	15162	188881	12.31%	0.253%	
446	19.317	19.300	19.323	VV	26711	278915	18.18%	0.374%	
447	19.327	19.323	19.344	VV	26798	258611	16.86%	0.347%	
448	19.368	19.344	19.388	VV	23723	506424	33.01%	0.679%	
449	19.403	19.388	19.411	VV	17433	204350	13.32%	0.274%	
450	19.422	19.411	19.426	VV	18115	146709	9.56%	0.197%	
451	19.451	19.426	19.458	VV	24785	377684	24.62%	0.506%	
452	19.464	19.458	19.471	VV	20067	144833	9.44%	0.194%	
453	19.478	19.471	19.490	VV	22887	209474	13.66%	0.281%	
454	19.496	19.490	19.506	VV	22293	185572	12.10%	0.249%	
455	19.518	19.506	19.523	VV	18668	182103	11.87%	0.244%	
456	19.529	19.523	19.536	VV	18794	131072	8.54%	0.176%	
457	19.541	19.536	19.546	VV	17915	91919	5.99%	0.123%	
458	19.552	19.546	19.557	VV	20009	118730	7.74%	0.159%	
459	19.562	19.557	19.569	VV	22768	137548	8.97%	0.184%	

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460	19.580	19.569	19.589	VV	22386	213811	13.94%	0.287%
461	19.601	19.589	19.614	VV	24477	26598		
462	19.625	19.614	19.640	VV	20895	27452		
463	19.646	19.640	19.652	VV	17437	11200		
464	19.665	19.652	19.671	VV	17072	18209		
465	19.677	19.671	19.690	VV	18889	178274	11.62%	0.239%
466	19.699	19.690	19.704	VV	18038	132627	8.65%	0.178%
467	19.709	19.704	19.717	VV	17777	133392	8.70%	0.179%
468	19.722	19.717	19.728	VV	17439	105981	6.91%	0.142%
469	19.741	19.728	19.745	VV	23140	211840	13.81%	0.284%
470	19.758	19.745	19.764	VV	26235	265249	17.29%	0.356%
471	19.769	19.764	19.775	VV	25409	146890	9.58%	0.197%
472	19.779	19.775	19.785	VV	23518	125105	8.16%	0.168%
473	19.796	19.785	19.803	VV	26593	240967	15.71%	0.323%
474	19.809	19.803	19.818	VV	26009	206588	13.47%	0.277%
475	19.834	19.818	19.841	VV	23304	300638	19.60%	0.403%
476	19.854	19.841	19.859	VV	22485	223262	14.55%	0.299%
477	19.866	19.859	19.890	VV	27251	397351	25.90%	0.533%
478	19.896	19.890	19.901	VV	23525	132051	8.61%	0.177%
479	19.911	19.901	19.949	VV	37780	824409	53.74%	1.105%
480	19.960	19.949	19.967	VV	26768	247793	16.15%	0.332%
481	19.986	19.967	20.000	VV	34701	567364	36.99%	0.761%
482	20.006	20.000	20.016	VV	30255	243078	15.85%	0.326%
483	20.030	20.016	20.040	VV	33041	383723	25.02%	0.514%
484	20.044	20.040	20.058	VV	27998	266070	17.35%	0.357%
485	20.063	20.058	20.069	VV	25919	172035	11.22%	0.231%
486	20.097	20.069	20.100	VV	29551	486781	31.73%	0.653%
487	20.116	20.100	20.120	VV	36916	389534	25.39%	0.522%
488	20.123	20.120	20.135	VV	36200	315249	20.55%	0.423%
489	20.141	20.135	20.149	VV	34381	269673	17.58%	0.362%
490	20.154	20.149	20.164	VV	32539	259326	16.91%	0.348%
491	20.178	20.164	20.184	VV	35374	362187	23.61%	0.486%
492	20.199	20.184	20.204	VV	39440	417324	27.21%	0.559%
493	20.212	20.204	20.228	VV	37543	500737	32.64%	0.671%
494	20.238	20.228	20.244	VV	37431	338896	22.09%	0.454%
495	20.250	20.244	20.262	VV	37199	378648	24.68%	0.508%
496	20.274	20.262	20.284	VV	48861	533123	34.75%	0.715%
497	20.290	20.284	20.328	VV	47349	1000558	65.23%	1.341%
498	20.334	20.328	20.341	VV	31239	217648	14.19%	0.292%
499	20.368	20.341	20.375	VV	33532	622662	40.59%	0.835%
500	20.389	20.375	20.400	VV	33687	478000	31.16%	0.641%
501	20.409	20.400	20.418	VV	33851	336027	21.91%	0.450%
502	20.423	20.418	20.427	VV	35066	162639	10.60%	0.218%
503	20.431	20.427	20.447	VV	33566	367848	23.98%	0.493%
504	20.452	20.447	20.458	VV	30035	180601	11.77%	0.242%
505	20.496	20.458	20.500	VV	40246	847160	55.23%	1.136%
506	20.504	20.500	20.508	VV	38093	164627	10.73%	0.221%

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507	20.532	20.508	20.536	VV	45307	672819	43.86%	0.902%
508	20.549	20.536	20.569	VV	49802	79817		
509	20.584	20.569	20.609	VV	42516	85112		
510	20.612	20.609	20.617	VV	34964	15221		
511	20.622	20.617	20.629	VV	36432	24258		
512	20.640	20.629	20.652	VV	38297	500114	32.60%	0.670%
513	20.660	20.652	20.675	VV	39152	495126	32.28%	0.664%
514	20.693	20.675	20.705	VV	39745	620970	40.48%	0.832%
515	20.711	20.705	20.724	VV	36820	375320	24.47%	0.503%
516	20.741	20.724	20.747	VV	40895	543164	35.41%	0.728%
517	20.769	20.747	20.776	VV	44280	702797	45.82%	0.942%
518	20.781	20.776	20.787	VV	42266	272368	17.76%	0.365%
519	20.795	20.787	20.807	VV	49190	532955	34.74%	0.714%
520	20.811	20.807	20.818	VV	50633	303902	19.81%	0.407%
521	20.834	20.818	20.839	VV	49852	575344	37.51%	0.771%
522	20.861	20.839	20.867	VV	50686	795205	51.84%	1.066%
523	20.873	20.867	20.878	VV	50266	308978	20.14%	0.414%
524	20.882	20.878	20.888	VV	48328	264698	17.26%	0.355%
525	20.892	20.888	20.897	VV	45354	238142	15.52%	0.319%
526	20.902	20.897	20.907	VV	43738	249665	16.28%	0.335%
527	20.911	20.907	20.921	VV	44199	357925	23.33%	0.480%
528	20.926	20.921	20.936	VV	42449	348814	22.74%	0.468%
529	20.941	20.936	20.954	VV	41887	406364	26.49%	0.545%
530	20.964	20.954	20.970	VV	39919	373295	24.34%	0.500%
531	20.975	20.970	20.984	VV	40144	323163	21.07%	0.433%
532	20.997	20.984	21.024	VV	36850	788638	51.41%	1.057%
533	21.038	21.024	21.042	VV	36279	328785	21.43%	0.441%
534	21.046	21.042	21.050	VV	35102	167408	10.91%	0.224%
535	21.060	21.050	21.065	VV	37456	299183	19.50%	0.401%
536	21.077	21.065	21.089	VV	39139	513911	33.50%	0.689%
537	21.101	21.089	21.107	VV	34410	334346	21.80%	0.448%
538	21.112	21.107	21.118	VV	36035	225326	14.69%	0.302%
539	21.123	21.118	21.133	VV	30819	250828	16.35%	0.336%
540	21.148	21.133	21.158	VV	31073	437987	28.55%	0.587%
541	21.169	21.158	21.178	VV	35224	372860	24.31%	0.500%
542	21.183	21.178	21.191	VV	35379	257677	16.80%	0.345%
543	21.201	21.191	21.223	VV	40563	698110	45.51%	0.936%
544	21.238	21.223	21.247	VV	40204	521804	34.02%	0.700%
545	21.260	21.247	21.264	VV	41629	386669	25.21%	0.518%
546	21.271	21.264	21.283	VV	39122	431156	28.11%	0.578%
547	21.290	21.283	21.296	VV	38584	300198	19.57%	0.402%
548	21.301	21.296	21.311	VV	40144	324770	21.17%	0.435%
549	21.315	21.311	21.321	VV	34735	188382	12.28%	0.253%
550	21.325	21.321	21.336	VV	34192	285798	18.63%	0.383%
551	21.340	21.336	21.345	VV	32118	150628	9.82%	0.202%
552	21.349	21.345	21.355	VV	32137	186232	12.14%	0.250%
553	21.368	21.355	21.382	VV	32791	434963	28.36%	0.583%
554	21.387	21.382	21.392	VV	26733	146539	9.55%	0.196%

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-7.0-7.5

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

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555	21.400	21.392	21.411	VV	23814	247929	16.16%	0.332%
556	21.415	21.411	21.422	VV	21152	12487		
557	21.428	21.422	21.462	VV	20306	38664		
558	21.476	21.462	21.486	VV	15129	18312		
559	21.494	21.486	21.499	VV	15912	10394		
560	21.506	21.499	21.510	VV	20582	124999	8.15%	0.168%
561	21.516	21.510	21.520	VV	22005	118589	7.73%	0.159%
562	21.527	21.520	21.531	VV	25201	145571	9.49%	0.195%
563	21.535	21.531	21.540	VV	24182	118017	7.69%	0.158%
564	21.560	21.540	21.573	VV	28716	515019	33.57%	0.690%
565	21.582	21.573	21.588	VV	32281	241149	15.72%	0.323%
566	21.595	21.588	21.605	VV	30810	302917	19.75%	0.406%
567	21.609	21.605	21.614	VV	31113	162331	10.58%	0.218%
568	21.619	21.614	21.639	VV	28450	371321	24.21%	0.498%
569	21.659	21.639	21.663	VV	23423	308283	20.10%	0.413%
570	21.668	21.663	21.680	VV	25794	236337	15.41%	0.317%
571	21.700	21.680	21.719	VV	27248	548032	35.73%	0.735%
572	21.729	21.719	21.735	VV	25042	211319	13.78%	0.283%
573	21.742	21.735	21.752	VV	24660	214458	13.98%	0.287%
574	21.757	21.752	21.763	VV	22236	141603	9.23%	0.190%
575	21.770	21.763	21.784	VV	21384	217777	14.20%	0.292%
576	21.790	21.784	21.801	VV	13801	110422	7.20%	0.148%
577	21.806	21.801	21.812	VV	13213	71869	4.69%	0.096%
578	21.817	21.812	21.822	VV	10764	53953	3.52%	0.072%
579	21.831	21.822	21.842	VV	11484	107628	7.02%	0.144%
580	21.862	21.842	21.868	VV	14343	173920	11.34%	0.233%
581	21.872	21.868	21.878	VV	12333	56003	3.65%	0.075%
582	21.886	21.878	21.893	VV	13592	90897	5.93%	0.122%
583	21.903	21.893	21.908	VV	15763	118549	7.73%	0.159%
584	21.914	21.908	21.923	VV	16616	135974	8.86%	0.182%
585	21.932	21.923	21.947	VV	21240	237409	15.48%	0.318%
586	21.953	21.947	21.959	VV	18633	133783	8.72%	0.179%
587	21.964	21.959	21.975	VV	20182	172079	11.22%	0.231%
588	21.986	21.975	21.995	VV	18778	204936	13.36%	0.275%
589	22.002	21.995	22.028	VV	21580	309015	20.14%	0.414%
590	22.034	22.028	22.046	VV	12930	102537	6.68%	0.137%
591	22.055	22.046	22.061	VV	11676	88154	5.75%	0.118%
592	22.067	22.061	22.072	VV	11691	67607	4.41%	0.091%
593	22.084	22.072	22.089	VV	14539	117861	7.68%	0.158%
594	22.095	22.089	22.111	VV	14652	138023	9.00%	0.185%
595	22.115	22.111	22.119	VV	9268	34544	2.25%	0.046%
596	22.128	22.119	22.138	VV	10577	95699	6.24%	0.128%
597	22.142	22.138	22.157	VV	7354	63510	4.14%	0.085%
598	22.170	22.157	22.180	VV	10047	106078	6.92%	0.142%
599	22.186	22.180	22.190	VV	8330	48006	3.13%	0.064%
600	22.195	22.190	22.200	VV	11145	46827	3.05%	0.063%
601	22.207	22.200	22.214	VV	15174	92593	6.04%	0.124%

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-7.0-7.5

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

					rteres			
602	22.223	22.214	22.228	VV	12439	88996	5.80%	0.119%
603	22.236	22.228	22.254	VV	14339	15886		
604	22.264	22.254	22.277	VV	8577	7514		
605	22.295	22.277	22.308	PV	6845	6583		
606	22.314	22.308	22.320	VV	3698	1335		
607	22.332	22.320	22.337	VV	3008	20668	1.35%	0.028%
608	22.345	22.337	22.354	VV	6423	29672	1.93%	0.040%
609	22.360	22.354	22.374	VV	6644	44990	2.93%	0.060%
610	22.380	22.374	22.385	VV	5233	15668	1.02%	0.021%

Sum of corrected areas: 74596474

FG121924.M Tue Dec 24 01:08:20 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	12/19/24
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	12/19/24
Client Sample ID:	SB-01-20241219-9.0-9.5	SDG No.:	P5361
Lab Sample ID:	P5361-02	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	87.1 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015019.D	1	12/23/24 08:35	12/23/24 12:54	PB165807

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	12800		365	3250	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.5		37 - 130	62%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015019.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 12:54
Operator : YP\AJ
Sample : P5361-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5

Integration File: autoint1.e
Quant Time: Dec 24 00:27:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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	1670729	12.500 ug/ml
Target Compounds			

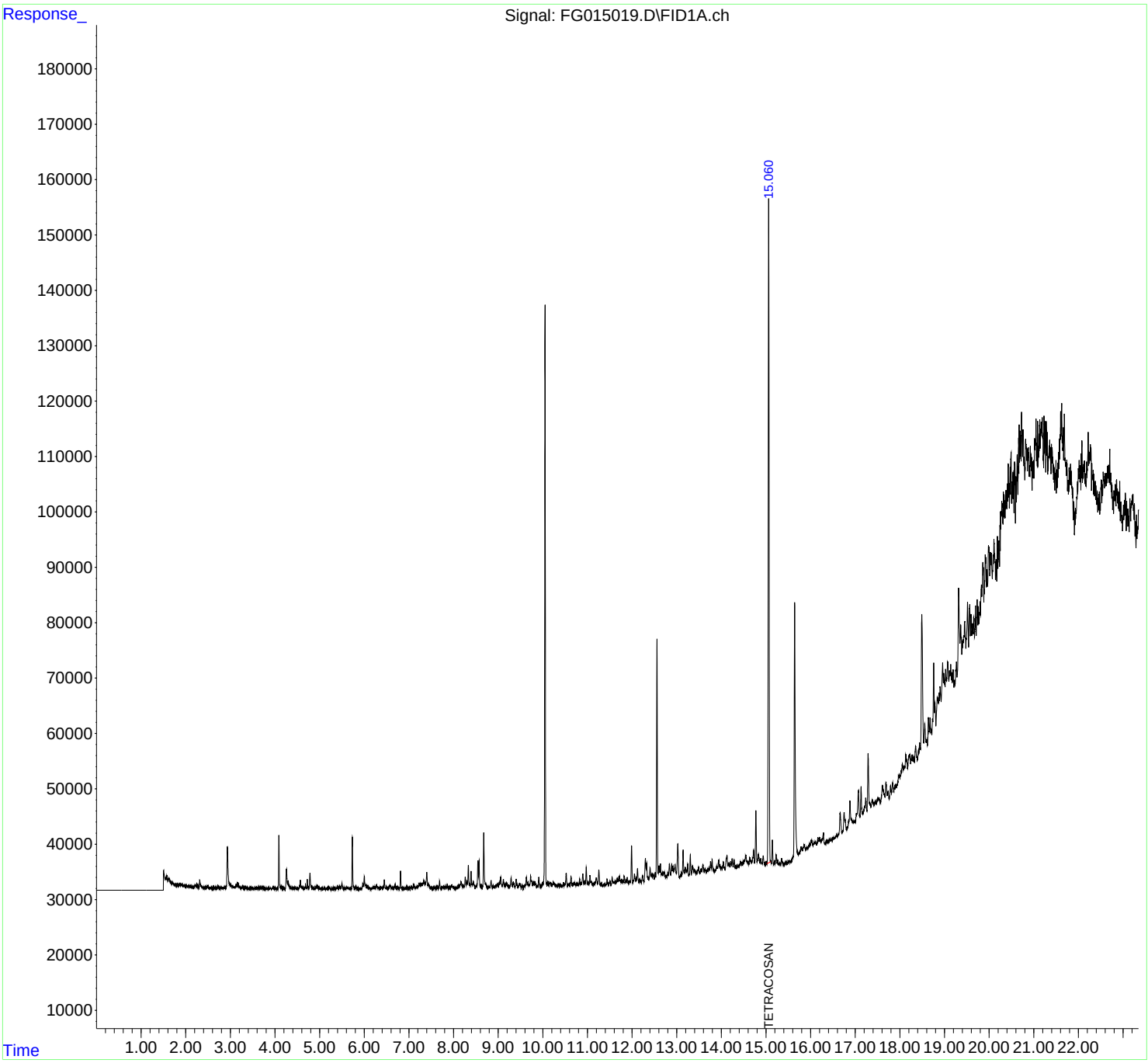
(f)=RT Delta > 1/2 Window (m)=manual int.

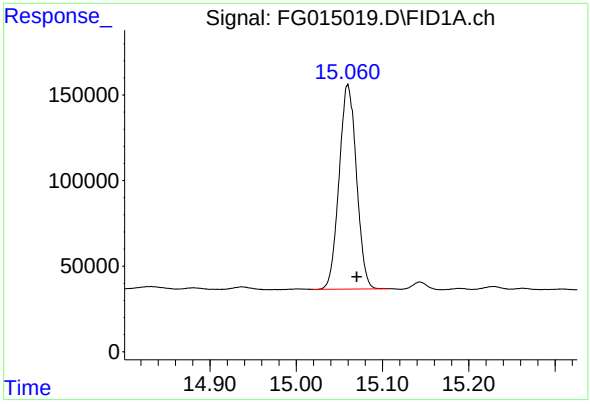
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015019.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 12:54
Operator : YP\AJ
Sample : P5361-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5

Integration File: autoint1.e
Quant Time: Dec 24 00:27:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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.:	15.060 min
Delta R.T.:	-0.010 min
Response:	1670729
Conc:	12.50 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015019.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 12:54
Sample : P5361-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.910	1.900	1.929	BV	197	1364	0.08%	0.003%
2	1.931	1.929	1.935	PV	46	166	0.01%	0.000%
3	1.942	1.935	1.967	VV	143	1538	0.09%	0.003%
4	1.972	1.967	1.981	PV	100	606	0.04%	0.001%
5	2.003	1.981	2.007	PV	183	1665	0.10%	0.004%
6	2.010	2.007	2.048	VV	260	3330	0.19%	0.007%
7	2.056	2.048	2.065	VV	125	1112	0.06%	0.002%
8	2.071	2.065	2.079	VV	195	1289	0.08%	0.003%
9	2.081	2.079	2.085	VV	177	456	0.03%	0.001%
10	2.102	2.085	2.115	VV	197	2654	0.16%	0.006%
11	2.119	2.115	2.129	VV	215	943	0.06%	0.002%
12	2.136	2.129	2.148	VV	109	843	0.05%	0.002%
13	2.151	2.148	2.159	VV	90	365	0.02%	0.001%
14	2.165	2.159	2.184	PV	108	774	0.05%	0.002%
15	2.210	2.184	2.238	PV	471	7890	0.46%	0.017%
16	2.245	2.238	2.298	VV	762	11651	0.68%	0.025%
17	2.312	2.298	2.392	VV	1429	24049	1.40%	0.052%
18	2.397	2.392	2.426	VV	138	1203	0.07%	0.003%
19	2.434	2.426	2.440	VV	159	1029	0.06%	0.002%
20	2.444	2.440	2.471	VV	249	2920	0.17%	0.006%
21	2.488	2.471	2.536	VV	357	7683	0.45%	0.016%
22	2.539	2.536	2.555	VV	161	1006	0.06%	0.002%
23	2.558	2.555	2.575	VV	114	799	0.05%	0.002%
24	2.580	2.575	2.585	PV	128	396	0.02%	0.001%
25	2.592	2.585	2.615	VV	156	1619	0.09%	0.003%
26	2.648	2.615	2.699	VV	210	5697	0.33%	0.012%
27	2.720	2.699	2.770	VV	436	6955	0.41%	0.015%
28	2.774	2.770	2.778	VV	71	337	0.02%	0.001%
29	2.788	2.778	2.814	PV	255	3090	0.18%	0.007%
30	2.818	2.814	2.822	VV	125	423	0.02%	0.001%
31	2.854	2.822	2.881	VV	266	6606	0.39%	0.014%

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32	2.933	2.881	2.996	VV	7571	141905	8.29%	0.305%
33	3.005	2.996	3.048	VV	808	17738	1.04%	0.038%
34	3.053	3.048	3.083	VV	381	6569	0.38%	0.014%
35	3.126	3.083	3.145	VV	665	16108	0.94%	0.035%
36	3.158	3.145	3.206	VV	1149	23365	1.36%	0.050%
37	3.207	3.206	3.227	VV	349	3115	0.18%	0.007%
38	3.230	3.227	3.247	VV	247	2213	0.13%	0.005%
39	3.272	3.247	3.285	VV	354	6044	0.35%	0.013%
40	3.290	3.285	3.301	VV	313	2631	0.15%	0.006%
41	3.308	3.301	3.319	VV	257	2429	0.14%	0.005%
42	3.324	3.319	3.349	VV	208	2846	0.17%	0.006%
43	3.353	3.349	3.361	VV	177	981	0.06%	0.002%
44	3.366	3.361	3.372	VV	165	875	0.05%	0.002%
45	3.374	3.372	3.393	VV	168	1313	0.08%	0.003%
46	3.397	3.393	3.410	VV	112	942	0.06%	0.002%
47	3.417	3.410	3.427	VV	134	847	0.05%	0.002%
48	3.448	3.427	3.456	VV	170	1978	0.12%	0.004%
49	3.476	3.456	3.500	VV	225	4358	0.25%	0.009%
50	3.505	3.500	3.530	VV	165	2904	0.17%	0.006%
51	3.548	3.530	3.552	VV	190	2287	0.13%	0.005%
52	3.571	3.552	3.587	VV	285	4792	0.28%	0.010%
53	3.589	3.587	3.628	VV	267	4048	0.24%	0.009%
54	3.644	3.628	3.679	VV	325	6869	0.40%	0.015%
55	3.684	3.679	3.691	VV	157	860	0.05%	0.002%
56	3.719	3.691	3.762	VV	321	8042	0.47%	0.017%
57	3.771	3.762	3.776	VV	207	1275	0.07%	0.003%
58	3.781	3.776	3.797	VV	219	1688	0.10%	0.004%
59	3.805	3.797	3.824	VV	135	1089	0.06%	0.002%
60	3.828	3.824	3.842	VV	89	812	0.05%	0.002%
61	3.863	3.842	3.869	VV	163	1775	0.10%	0.004%
62	3.874	3.869	3.941	VV	221	4131	0.24%	0.009%
63	3.959	3.941	3.992	VV	449	6983	0.41%	0.015%
64	4.006	3.992	4.024	VV	300	3622	0.21%	0.008%
65	4.029	4.024	4.041	VV	186	957	0.06%	0.002%
66	4.046	4.041	4.059	VV	116	685	0.04%	0.001%
67	4.087	4.059	4.129	VV	9667	99140	5.79%	0.213%
68	4.145	4.129	4.176	VV	479	7980	0.47%	0.017%
69	4.181	4.176	4.187	VV	206	994	0.06%	0.002%
70	4.201	4.187	4.212	VV	173	2045	0.12%	0.004%
71	4.215	4.212	4.229	VV	109	796	0.05%	0.002%
72	4.256	4.229	4.282	PV	3638	58599	3.42%	0.126%
73	4.296	4.282	4.349	VV	1585	31101	1.82%	0.067%
74	4.352	4.349	4.361	VV	305	1961	0.11%	0.004%
75	4.364	4.361	4.377	VV	263	2222	0.13%	0.005%
76	4.391	4.377	4.449	VV	365	9990	0.58%	0.021%
77	4.464	4.449	4.484	VV	212	3590	0.21%	0.008%
78	4.496	4.484	4.532	VV	243	4512	0.26%	0.010%
79	4.569	4.532	4.592	VV	1665	23658	1.38%	0.051%

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80	4.598	4.592	4.636	VV	346	6135	0.36%	0.013%
81	4.654	4.636	4.666	VV	252	3142	0.18%	0.007%
82	4.682	4.666	4.704	VV	683	8595	0.50%	0.018%
83	4.724	4.704	4.747	VV	1792	19857	1.16%	0.043%
84	4.783	4.747	4.834	VV	2962	47023	2.75%	0.101%
85	4.839	4.834	4.863	VV	262	3925	0.23%	0.008%
86	4.881	4.863	4.893	VV	268	3896	0.23%	0.008%
87	4.899	4.893	4.914	VV	304	3091	0.18%	0.007%
88	4.929	4.914	4.936	VV	606	5889	0.34%	0.013%
89	4.941	4.936	4.959	VV	551	6625	0.39%	0.014%
90	4.970	4.959	5.012	VV	510	8739	0.51%	0.019%
91	5.018	5.012	5.023	VV	173	998	0.06%	0.002%
92	5.057	5.023	5.071	VV	241	4695	0.27%	0.010%
93	5.095	5.071	5.099	VV	177	1917	0.11%	0.004%
94	5.106	5.099	5.152	VV	167	3603	0.21%	0.008%
95	5.157	5.152	5.166	VV	143	858	0.05%	0.002%
96	5.172	5.166	5.179	VV	125	725	0.04%	0.002%
97	5.215	5.179	5.230	VV	451	9058	0.53%	0.019%
98	5.234	5.230	5.254	VV	171	1763	0.10%	0.004%
99	5.260	5.254	5.288	VV	115	1927	0.11%	0.004%
100	5.316	5.288	5.337	VV	351	4844	0.28%	0.010%
101	5.342	5.337	5.349	VV	109	529	0.03%	0.001%
102	5.378	5.349	5.383	VV	262	3225	0.19%	0.007%
103	5.399	5.383	5.420	VV	600	7361	0.43%	0.016%
104	5.442	5.420	5.474	VV	568	10101	0.59%	0.022%
105	5.500	5.474	5.532	VV	1153	18658	1.09%	0.040%
106	5.539	5.532	5.546	VV	240	1584	0.09%	0.003%
107	5.563	5.546	5.584	VV	382	4765	0.28%	0.010%
108	5.603	5.584	5.618	VV	412	5550	0.32%	0.012%
109	5.631	5.618	5.687	VV	487	7387	0.43%	0.016%
110	5.701	5.687	5.712	PV	204	2085	0.12%	0.004%
111	5.733	5.712	5.789	VV	9502	102719	6.00%	0.220%
112	5.806	5.789	5.850	VV	491	8662	0.51%	0.019%
113	5.859	5.850	5.874	VV	134	1334	0.08%	0.003%
114	5.892	5.874	5.912	VV	127	1354	0.08%	0.003%
115	5.921	5.912	5.932	VV	111	721	0.04%	0.002%
116	5.969	5.932	5.979	VV	931	13791	0.81%	0.030%
117	6.001	5.979	6.022	VV	2402	34514	2.02%	0.074%
118	6.029	6.022	6.052	VV	845	10450	0.61%	0.022%
119	6.068	6.052	6.132	VV	688	15750	0.92%	0.034%
120	6.167	6.132	6.182	VV	253	4890	0.29%	0.010%
121	6.184	6.182	6.190	VV	203	758	0.04%	0.002%
122	6.207	6.190	6.218	VV	564	5866	0.34%	0.013%
123	6.236	6.218	6.251	VV	485	6954	0.41%	0.015%
124	6.275	6.251	6.302	VV	847	15373	0.90%	0.033%
125	6.314	6.302	6.346	VV	407	6814	0.40%	0.015%
126	6.353	6.346	6.377	VV	337	5060	0.30%	0.011%

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127	6.383	6.377	6.387	VV	352	1856	0.11%	0.004%
128	6.391	6.387	6.404	VV	349	2902	0.17%	0.006%
129	6.422	6.404	6.431	VV	364	4246	0.25%	0.009%
130	6.449	6.431	6.480	VV	1723	21847	1.28%	0.047%
131	6.499	6.480	6.518	VV	437	5885	0.34%	0.013%
132	6.543	6.518	6.551	VV	287	3691	0.22%	0.008%
133	6.572	6.551	6.608	VV	819	14956	0.87%	0.032%
134	6.637	6.608	6.657	VV	311	6602	0.39%	0.014%
135	6.663	6.657	6.665	VV	228	994	0.06%	0.002%
136	6.692	6.665	6.717	VV	1003	15404	0.90%	0.033%
137	6.732	6.717	6.749	VV	290	4075	0.24%	0.009%
138	6.763	6.749	6.787	VV	242	3456	0.20%	0.007%
139	6.811	6.787	6.881	VV	3289	37468	2.19%	0.080%
140	6.888	6.881	6.904	VV	172	1602	0.09%	0.003%
141	6.910	6.904	6.916	VV	148	880	0.05%	0.002%
142	6.920	6.916	6.923	VV	159	687	0.04%	0.001%
143	6.937	6.923	6.949	VV	443	4625	0.27%	0.010%
144	6.952	6.949	6.985	VV	284	4717	0.28%	0.010%
145	7.011	6.985	7.031	VV	314	4965	0.29%	0.011%
146	7.050	7.031	7.083	VV	366	7473	0.44%	0.016%
147	7.109	7.083	7.137	VV	927	14841	0.87%	0.032%
148	7.141	7.137	7.158	VV	300	2998	0.18%	0.006%
149	7.178	7.158	7.204	VV	472	10666	0.62%	0.023%
150	7.229	7.204	7.247	VV	838	17075	1.00%	0.037%
151	7.269	7.247	7.289	VV	939	19774	1.15%	0.042%
152	7.292	7.289	7.301	VV	805	5215	0.30%	0.011%
153	7.336	7.301	7.367	VV	1481	44395	2.59%	0.095%
154	7.400	7.367	7.426	VV	3050	56298	3.29%	0.121%
155	7.438	7.426	7.484	VV	902	19425	1.13%	0.042%
156	7.488	7.484	7.491	VV	185	640	0.04%	0.001%
157	7.499	7.491	7.510	VV	174	1865	0.11%	0.004%
158	7.517	7.510	7.540	VV	192	1766	0.10%	0.004%
159	7.575	7.540	7.590	VV	313	5346	0.31%	0.011%
160	7.605	7.590	7.616	VV	336	3559	0.21%	0.008%
161	7.631	7.616	7.659	VV	418	6873	0.40%	0.015%
162	7.687	7.659	7.719	VV	1458	19748	1.15%	0.042%
163	7.721	7.719	7.728	VV	200	847	0.05%	0.002%
164	7.733	7.728	7.737	VV	184	909	0.05%	0.002%
165	7.744	7.737	7.772	VV	241	4495	0.26%	0.010%
166	7.779	7.772	7.784	VV	307	1824	0.11%	0.004%
167	7.805	7.784	7.834	VV	471	9623	0.56%	0.021%
168	7.859	7.834	7.884	VV	822	12401	0.72%	0.027%
169	7.896	7.884	7.916	VV	239	2994	0.17%	0.006%
170	7.958	7.916	7.991	VV	737	16847	0.98%	0.036%
171	8.004	7.991	8.019	VV	336	4224	0.25%	0.009%
172	8.024	8.019	8.043	VV	121	1294	0.08%	0.003%
173	8.062	8.043	8.067	VV	229	2309	0.13%	0.005%
174	8.089	8.067	8.098	VV	350	4684	0.27%	0.010%

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175	8.117	8.098	8.132	VV	555	9462	0.55%	0.020%
176	8.171	8.132	8.196	VV	1239	30681	1.79%	0.066%
177	8.216	8.196	8.242	VV	620	13213	0.77%	0.028%
178	8.262	8.242	8.281	VV	2176	28213	1.65%	0.061%
179	8.299	8.281	8.310	VV	1339	18239	1.07%	0.039%
180	8.332	8.310	8.354	VV	4309	54705	3.20%	0.117%
181	8.362	8.354	8.374	VV	768	8473	0.49%	0.018%
182	8.394	8.374	8.423	VV	3191	45332	2.65%	0.097%
183	8.441	8.423	8.487	VV	1393	29379	1.72%	0.063%
184	8.505	8.487	8.521	VV	605	8288	0.48%	0.018%
185	8.545	8.521	8.558	VV	5118	58107	3.39%	0.125%
186	8.572	8.558	8.616	VV	5188	64456	3.76%	0.138%
187	8.623	8.616	8.647	VV	495	6878	0.40%	0.015%
188	8.677	8.647	8.714	VV	10160	131364	7.67%	0.282%
189	8.720	8.714	8.753	VV	866	12324	0.72%	0.026%
190	8.770	8.753	8.790	VV	360	6202	0.36%	0.013%
191	8.799	8.790	8.805	VV	295	2374	0.14%	0.005%
192	8.810	8.805	8.815	VV	277	1671	0.10%	0.004%
193	8.841	8.815	8.882	VV	1490	24597	1.44%	0.053%
194	8.900	8.882	8.920	VV	489	7302	0.43%	0.016%
195	8.935	8.920	8.954	VV	510	6887	0.40%	0.015%
196	8.972	8.954	8.986	VV	852	11785	0.69%	0.025%
197	8.992	8.986	9.008	VV	742	8633	0.50%	0.019%
198	9.025	9.008	9.036	VV	1209	14161	0.83%	0.030%
199	9.057	9.036	9.092	VV	2134	39465	2.30%	0.085%
200	9.117	9.092	9.142	VV	1664	26776	1.56%	0.057%
201	9.178	9.142	9.191	VV	1013	19999	1.17%	0.043%
202	9.195	9.191	9.217	VV	884	10915	0.64%	0.023%
203	9.232	9.217	9.249	VV	708	9606	0.56%	0.021%
204	9.291	9.249	9.323	VV	1960	37820	2.21%	0.081%
205	9.342	9.323	9.379	VV	1231	23354	1.36%	0.050%
206	9.402	9.379	9.446	VV	1732	30045	1.75%	0.064%
207	9.476	9.446	9.482	VV	817	12652	0.74%	0.027%
208	9.490	9.482	9.521	VV	896	12273	0.72%	0.026%
209	9.535	9.521	9.558	VV	723	8588	0.50%	0.018%
210	9.581	9.558	9.596	PV	576	7478	0.44%	0.016%
211	9.632	9.596	9.651	VV	2003	33227	1.94%	0.071%
212	9.665	9.651	9.689	VV	1164	18326	1.07%	0.039%
213	9.697	9.689	9.704	VV	648	5425	0.32%	0.012%
214	9.727	9.704	9.740	VV	2048	29181	1.70%	0.063%
215	9.747	9.740	9.766	VV	1339	15795	0.92%	0.034%
216	9.786	9.766	9.803	VV	1204	19050	1.11%	0.041%
217	9.825	9.803	9.850	VV	1129	23267	1.36%	0.050%
218	9.855	9.850	9.889	VV	435	7821	0.46%	0.017%
219	9.911	9.889	9.960	VV	1940	30167	1.76%	0.065%
220	9.990	9.960	10.008	VV	988	16968	0.99%	0.036%
221	10.050	10.008	10.094	VV	104025	1104262	64.50%	2.370%

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222	10.111	10.094	10.136	VV	1193	18457	1.08%	0.040%
223	10.167	10.136	10.179	VV	951	18979	1.11%	0.041%
224	10.184	10.179	10.204	VV	626	6855	0.40%	0.015%
225	10.219	10.204	10.223	VV	578	5329	0.31%	0.011%
226	10.238	10.223	10.269	VV	865	17996	1.05%	0.039%
227	10.282	10.269	10.307	VV	508	8488	0.50%	0.018%
228	10.323	10.307	10.341	VV	387	6263	0.37%	0.013%
229	10.354	10.341	10.374	VV	450	6454	0.38%	0.014%
230	10.383	10.374	10.387	VV	335	2145	0.13%	0.005%
231	10.391	10.387	10.408	VV	315	3116	0.18%	0.007%
232	10.423	10.408	10.442	VV	290	4606	0.27%	0.010%
233	10.460	10.442	10.475	VV	803	9526	0.56%	0.020%
234	10.495	10.475	10.500	VV	483	5953	0.35%	0.013%
235	10.524	10.500	10.548	VV	2526	34523	2.02%	0.074%
236	10.567	10.548	10.594	VV	512	10723	0.63%	0.023%
237	10.632	10.594	10.682	VV	1802	35071	2.05%	0.075%
238	10.700	10.682	10.734	VV	720	15054	0.88%	0.032%
239	10.748	10.734	10.761	VV	546	7011	0.41%	0.015%
240	10.779	10.761	10.797	VV	544	8689	0.51%	0.019%
241	10.824	10.797	10.841	VV	1226	17343	1.01%	0.037%
242	10.854	10.841	10.866	VV	570	7132	0.42%	0.015%
243	10.895	10.866	10.916	VV	2195	37120	2.17%	0.080%
244	10.930	10.916	10.951	VV	849	14148	0.83%	0.030%
245	10.972	10.951	10.997	VV	3415	44411	2.59%	0.095%
246	11.005	10.997	11.035	VV	619	10454	0.61%	0.022%
247	11.057	11.035	11.077	VV	1920	27489	1.61%	0.059%
248	11.085	11.077	11.112	VV	814	11297	0.66%	0.024%
249	11.125	11.112	11.137	VV	391	4661	0.27%	0.010%
250	11.157	11.137	11.171	VV	464	7753	0.45%	0.017%
251	11.201	11.171	11.227	VV	1486	29027	1.70%	0.062%
252	11.256	11.227	11.289	VV	2801	42826	2.50%	0.092%
253	11.300	11.289	11.314	VV	290	3078	0.18%	0.007%
254	11.324	11.314	11.346	VV	235	2500	0.15%	0.005%
255	11.360	11.346	11.379	PV	226	2214	0.13%	0.005%
256	11.394	11.379	11.421	VV	235	3615	0.21%	0.008%
257	11.440	11.421	11.472	VV	1171	15993	0.93%	0.034%
258	11.508	11.472	11.532	VV	731	12027	0.70%	0.026%
259	11.553	11.532	11.575	PV	1396	18350	1.07%	0.039%
260	11.589	11.575	11.594	VV	484	4782	0.28%	0.010%
261	11.609	11.594	11.629	VV	604	10949	0.64%	0.023%
262	11.635	11.629	11.643	VV	649	5029	0.29%	0.011%
263	11.665	11.643	11.673	VV	817	12467	0.73%	0.027%
264	11.684	11.673	11.699	VV	1015	13202	0.77%	0.028%
265	11.717	11.699	11.755	VV	1452	28715	1.68%	0.062%
266	11.772	11.755	11.784	VV	843	11172	0.65%	0.024%
267	11.794	11.784	11.803	VV	509	5159	0.30%	0.011%
268	11.823	11.803	11.847	VV	1373	18615	1.09%	0.040%
269	11.861	11.847	11.877	VV	710	8936	0.52%	0.019%

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270	11.894	11.877	11.920	VV	1168	14445	0.84%	0.031%
271	11.943	11.920	11.964	VV	353	7098	0.41%	0.015%
272	11.989	11.964	12.014	VV	6719	80775	4.72%	0.173%
273	12.054	12.014	12.075	VV	1705	28711	1.68%	0.062%
274	12.087	12.075	12.097	VV	807	8592	0.50%	0.018%
275	12.121	12.097	12.147	VV	2568	34921	2.04%	0.075%
276	12.165	12.147	12.211	PV	647	10739	0.63%	0.023%
277	12.232	12.211	12.264	VV	1263	19438	1.14%	0.042%
278	12.298	12.264	12.315	VV	4312	64894	3.79%	0.139%
279	12.327	12.315	12.363	VV	3369	48132	2.81%	0.103%
280	12.374	12.363	12.384	VV	681	7466	0.44%	0.016%
281	12.403	12.384	12.424	VV	2449	35579	2.08%	0.076%
282	12.443	12.424	12.457	VV	1142	19880	1.16%	0.043%
283	12.468	12.457	12.498	VV	1303	22435	1.31%	0.048%
284	12.518	12.498	12.531	VV	1477	18225	1.06%	0.039%
285	12.559	12.531	12.585	VV	43648	484606	28.30%	1.040%
286	12.604	12.585	12.622	VV	2662	45286	2.64%	0.097%
287	12.637	12.622	12.655	VV	2999	38877	2.27%	0.083%
288	12.665	12.655	12.675	VV	1294	13778	0.80%	0.030%
289	12.690	12.675	12.704	VV	1274	20008	1.17%	0.043%
290	12.719	12.704	12.751	VV	1386	27431	1.60%	0.059%
291	12.758	12.751	12.782	VV	615	10092	0.59%	0.022%
292	12.800	12.782	12.813	VV	1247	16334	0.95%	0.035%
293	12.836	12.813	12.864	VV	2687	46418	2.71%	0.100%
294	12.887	12.864	12.901	VV	2638	38783	2.27%	0.083%
295	12.916	12.901	12.933	VV	2306	34424	2.01%	0.074%
296	12.964	12.933	12.993	VV	2480	58375	3.41%	0.125%
297	13.024	12.993	13.062	VV	6184	107935	6.30%	0.232%
298	13.084	13.062	13.089	PV	363	3615	0.21%	0.008%
299	13.105	13.089	13.120	VV	815	11614	0.68%	0.025%
300	13.143	13.120	13.176	VV	4951	70981	4.15%	0.152%
301	13.193	13.176	13.219	VV	1755	32305	1.89%	0.069%
302	13.248	13.219	13.272	VV	2345	40244	2.35%	0.086%
303	13.306	13.272	13.327	VV	3935	50483	2.95%	0.108%
304	13.358	13.327	13.379	VV	1775	38573	2.25%	0.083%
305	13.395	13.379	13.431	VV	1068	25412	1.48%	0.055%
306	13.491	13.431	13.517	VV	1509	39832	2.33%	0.085%
307	13.543	13.517	13.559	VV	1137	18770	1.10%	0.040%
308	13.587	13.559	13.622	VV	1855	41096	2.40%	0.088%
309	13.634	13.622	13.656	VV	948	14702	0.86%	0.032%
310	13.664	13.656	13.672	VV	535	4842	0.28%	0.010%
311	13.678	13.672	13.681	VV	613	3203	0.19%	0.007%
312	13.695	13.681	13.702	VV	843	9188	0.54%	0.020%
313	13.716	13.702	13.737	VV	1010	17549	1.02%	0.038%
314	13.758	13.737	13.776	VV	2211	33198	1.94%	0.071%
315	13.792	13.776	13.826	VV	2591	39261	2.29%	0.084%
316	13.836	13.826	13.857	VV	650	9481	0.55%	0.020%

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317	13.898	13.857	13.914	VV	1222	26392	1.54%	0.057%
318	13.938	13.914	13.987	VV	2341	59300	3.46%	0.127%
319	14.001	13.987	14.024	VV	1010	19388	1.13%	0.042%
320	14.044	14.024	14.086	VV	1905	39329	2.30%	0.084%
321	14.127	14.086	14.149	VV	2968	71000	4.15%	0.152%
322	14.154	14.149	14.157	VV	1325	6378	0.37%	0.014%
323	14.173	14.157	14.192	VV	1598	26071	1.52%	0.056%
324	14.214	14.192	14.228	VV	1766	28762	1.68%	0.062%
325	14.245	14.228	14.266	VV	2189	34606	2.02%	0.074%
326	14.287	14.266	14.312	VV	2015	35531	2.08%	0.076%
327	14.326	14.312	14.347	VV	900	15352	0.90%	0.033%
328	14.377	14.347	14.389	VV	884	18337	1.07%	0.039%
329	14.433	14.389	14.471	VV	1521	54738	3.20%	0.117%
330	14.488	14.471	14.502	VV	1536	24079	1.41%	0.052%
331	14.549	14.502	14.615	VV	2634	105858	6.18%	0.227%
332	14.640	14.615	14.656	VV	2036	37102	2.17%	0.080%
333	14.666	14.656	14.683	VV	1471	21098	1.23%	0.045%
334	14.722	14.683	14.745	VV	3323	74634	4.36%	0.160%
335	14.773	14.745	14.798	VV	10324	145715	8.51%	0.313%
336	14.832	14.798	14.861	VV	2396	62484	3.65%	0.134%
337	14.881	14.861	14.912	VV	1631	32764	1.91%	0.070%
338	14.937	14.912	14.971	VV	2077	39622	2.31%	0.085%
339	15.001	14.971	15.023	VV	835	18797	1.10%	0.040%
340	15.060	15.023	15.122	VV	119979	1712164	100.00%	3.675%
341	15.143	15.122	15.171	VV	4744	58346	3.41%	0.125%
342	15.189	15.171	15.204	VV	948	11833	0.69%	0.025%
343	15.229	15.204	15.248	VV	2000	29904	1.75%	0.064%
344	15.262	15.248	15.282	VV	956	11662	0.68%	0.025%
345	15.309	15.282	15.325	VV	467	6128	0.36%	0.013%
346	15.349	15.325	15.399	PV	1179	19506	1.14%	0.042%
347	15.401	15.399	15.404	VV	54	96	0.01%	0.000%
348	15.446	15.404	15.450	PV	278	4837	0.28%	0.010%
349	15.456	15.450	15.478	VV	313	2616	0.15%	0.006%
350	15.500	15.478	15.517	PV	422	5623	0.33%	0.012%
351	15.536	15.517	15.559	VV	396	5494	0.32%	0.012%
352	15.600	15.559	15.606	VV	756	10306	0.60%	0.022%
353	15.643	15.606	15.721	VV	46556	743083	43.40%	1.595%
354	15.725	15.721	15.746	VV	798	11436	0.67%	0.025%
355	15.789	15.746	15.817	VV	1795	52105	3.04%	0.112%
356	15.860	15.817	15.887	VV	1908	59358	3.47%	0.127%
357	15.911	15.887	15.934	VV	1127	27021	1.58%	0.058%
358	15.974	15.934	15.979	VV	1523	32968	1.93%	0.071%
359	15.982	15.979	15.989	VV	1453	7903	0.46%	0.017%
360	16.016	15.989	16.044	VV	1970	54561	3.19%	0.117%
361	16.051	16.044	16.056	VV	1192	7938	0.46%	0.017%
362	16.077	16.056	16.090	VV	1369	25317	1.48%	0.054%
363	16.106	16.090	16.135	VV	1258	27652	1.62%	0.059%
364	16.164	16.135	16.189	VV	1876	41692	2.44%	0.089%

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365	16.208	16.189	16.229	VV	1699	30622	1.79%	0.066%
366	16.249	16.229	16.264	VV	1167	21620	1.26%	0.046%
367	16.286	16.264	16.332	VV	2185	37241	2.18%	0.080%
368	16.362	16.332	16.370	VV	337	5250	0.31%	0.011%
369	16.375	16.370	16.400	VV	302	3531	0.21%	0.008%
370	16.435	16.400	16.451	VV	308	6431	0.38%	0.014%
371	16.465	16.451	16.476	VV	287	2135	0.12%	0.005%
372	16.504	16.476	16.522	PV	372	5378	0.31%	0.012%
373	16.582	16.522	16.597	VV	501	8130	0.47%	0.017%
374	16.618	16.597	16.624	PV	276	1938	0.11%	0.004%
375	16.663	16.624	16.701	VV	4046	74113	4.33%	0.159%
376	16.750	16.701	16.771	VV	3486	59604	3.48%	0.128%
377	16.775	16.771	16.804	VV	2020	20174	1.18%	0.043%
378	16.854	16.804	16.859	VV	1375	17884	1.04%	0.038%
379	16.883	16.859	16.940	VV	4768	96450	5.63%	0.207%
380	16.949	16.940	16.957	VV	678	6555	0.38%	0.014%
381	16.964	16.957	16.969	VV	599	3887	0.23%	0.008%
382	16.976	16.969	16.991	VV	587	5959	0.35%	0.013%
383	17.028	16.991	17.040	VV	1744	29577	1.73%	0.063%
384	17.072	17.040	17.100	VV	5669	107741	6.29%	0.231%
385	17.131	17.100	17.156	VV	5904	86606	5.06%	0.186%
386	17.163	17.156	17.172	VV	955	8362	0.49%	0.018%
387	17.207	17.172	17.216	VV	2020	36966	2.16%	0.079%
388	17.235	17.216	17.259	VV	3256	55916	3.27%	0.120%
389	17.288	17.259	17.346	VV	11009	202187	11.81%	0.434%
390	17.381	17.346	17.407	VV	2090	57021	3.33%	0.122%
391	17.418	17.407	17.428	VV	1219	13875	0.81%	0.030%
392	17.444	17.428	17.466	VV	1468	26942	1.57%	0.058%
393	17.503	17.466	17.526	VV	1610	49382	2.88%	0.106%
394	17.535	17.526	17.566	VV	1535	24419	1.43%	0.052%
395	17.609	17.566	17.661	VV	3414	108486	6.34%	0.233%
396	17.689	17.661	17.714	VV	3320	65834	3.85%	0.141%
397	17.737	17.714	17.762	VV	1549	28297	1.65%	0.061%
398	17.792	17.762	17.812	PV	2137	31850	1.86%	0.068%
399	17.836	17.812	17.862	VV	2170	39009	2.28%	0.084%
400	17.892	17.862	17.915	VV	985	20716	1.21%	0.044%
401	17.923	17.915	17.929	VV	617	4467	0.26%	0.010%
402	17.976	17.929	17.998	VV	1799	48058	2.81%	0.103%
403	18.007	17.998	18.012	VV	1446	11644	0.68%	0.025%
404	18.031	18.012	18.037	VV	2073	26685	1.56%	0.057%
405	18.053	18.037	18.076	VV	2925	55585	3.25%	0.119%
406	18.103	18.076	18.110	VV	2084	41442	2.42%	0.089%
407	18.132	18.110	18.147	VV	3913	64194	3.75%	0.138%
408	18.153	18.147	18.171	VV	2666	28438	1.66%	0.061%
409	18.211	18.171	18.216	VV	2975	59769	3.49%	0.128%
410	18.224	18.216	18.241	VV	2825	32680	1.91%	0.070%
411	18.272	18.241	18.293	VV	2273	49606	2.90%	0.106%

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412	18.306	18.293	18.327	VV	1470	20779	1.21%	0.045%
413	18.353	18.327	18.393	VV	2935	56638	3.31%	0.122%
414	18.417	18.393	18.426	PV	1539	18077	1.06%	0.039%
415	18.441	18.426	18.457	VV	2419	31049	1.81%	0.067%
416	18.491	18.457	18.532	VV	25071	501568	29.29%	1.076%
417	18.558	18.532	18.587	VV	4461	84534	4.94%	0.181%
418	18.601	18.587	18.617	VV	1219	15476	0.90%	0.033%
419	18.638	18.617	18.659	VV	4794	69029	4.03%	0.148%
420	18.676	18.659	18.692	VV	4306	55991	3.27%	0.120%
421	18.702	18.692	18.716	VV	1956	21199	1.24%	0.045%
422	18.731	18.716	18.738	VV	3412	32924	1.92%	0.071%
423	18.757	18.738	18.774	VV	13303	174192	10.17%	0.374%
424	18.783	18.774	18.806	VV	5756	83550	4.88%	0.179%
425	18.836	18.806	18.841	VV	6214	84826	4.95%	0.182%
426	18.846	18.841	18.862	VV	6004	68908	4.02%	0.148%
427	18.866	18.862	18.871	VV	5302	26686	1.56%	0.057%
428	18.881	18.871	18.890	VV	6486	62740	3.66%	0.135%
429	18.901	18.890	18.923	VV	7319	120580	7.04%	0.259%
430	18.958	18.923	18.974	VV	10976	240518	14.05%	0.516%
431	18.984	18.974	18.994	VV	8789	95506	5.58%	0.205%
432	18.999	18.994	19.013	VV	7215	75539	4.41%	0.162%
433	19.024	19.013	19.046	VV	9043	149562	8.74%	0.321%
434	19.070	19.046	19.097	VV	9853	247011	14.43%	0.530%
435	19.110	19.097	19.128	VV	7769	128949	7.53%	0.277%
436	19.139	19.128	19.155	VV	8622	119683	6.99%	0.257%
437	19.164	19.155	19.173	VV	6847	63758	3.72%	0.137%
438	19.193	19.173	19.210	VV	7039	122052	7.13%	0.262%
439	19.227	19.210	19.235	VV	4768	64843	3.79%	0.139%
440	19.250	19.235	19.254	VV	6324	57912	3.38%	0.124%
441	19.268	19.254	19.279	VV	7503	97793	5.71%	0.210%
442	19.316	19.279	19.346	VV	20362	484212	28.28%	1.039%
443	19.364	19.346	19.387	VV	13165	269072	15.72%	0.577%
444	19.398	19.387	19.407	VV	9852	107138	6.26%	0.230%
445	19.417	19.407	19.421	VV	9886	77450	4.52%	0.166%
446	19.429	19.421	19.438	VV	10463	103800	6.06%	0.223%
447	19.451	19.438	19.478	VV	12733	255579	14.93%	0.549%
448	19.516	19.478	19.540	VV	15466	401140	23.43%	0.861%
449	19.565	19.540	19.580	VV	14476	282461	16.50%	0.606%
450	19.599	19.580	19.611	VV	12333	189536	11.07%	0.407%
451	19.616	19.611	19.620	VV	9153	51220	2.99%	0.110%
452	19.628	19.620	19.644	VV	10346	132497	7.74%	0.284%
453	19.653	19.644	19.658	VV	11245	84804	4.95%	0.182%
454	19.661	19.658	19.672	VV	10760	79909	4.67%	0.171%
455	19.694	19.672	19.710	VV	12757	216047	12.62%	0.464%
456	19.732	19.710	19.747	VV	13474	225604	13.18%	0.484%
457	19.755	19.747	19.769	VV	11807	134348	7.85%	0.288%
458	19.794	19.769	19.803	VV	12347	208488	12.18%	0.447%
459	19.827	19.803	19.836	VV	15035	258187	15.08%	0.554%

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460	19.858	19.836	19.865	VV	18694	272862	15.94%	0.586%
461	19.871	19.865	19.881	VV	17684	151742	8.86%	0.326%
462	19.913	19.881	19.942	VV	19501	572783	33.45%	1.229%
463	19.951	19.942	19.964	VV	16333	193030	11.27%	0.414%
464	19.984	19.964	19.990	VV	20314	262670	15.34%	0.564%
465	19.999	19.990	20.014	VV	19790	261232	15.26%	0.561%
466	20.030	20.014	20.038	VV	18533	235119	13.73%	0.505%
467	20.042	20.038	20.047	VV	17363	97342	5.69%	0.209%
468	20.054	20.047	20.070	VV	18177	217736	12.72%	0.467%
469	20.089	20.070	20.095	VV	17431	226216	13.21%	0.485%
470	20.108	20.095	20.143	VV	19935	480977	28.09%	1.032%
471	20.157	20.143	20.171	VV	15805	234866	13.72%	0.504%
472	20.186	20.171	20.197	VV	19577	252738	14.76%	0.542%
473	20.204	20.197	20.209	VV	17108	110676	6.46%	0.238%
474	20.215	20.209	20.224	VV	18440	155789	9.10%	0.334%
475	20.229	20.224	20.234	VV	16121	89295	5.22%	0.192%
476	20.243	20.234	20.249	VV	20897	162735	9.50%	0.349%
477	20.257	20.249	20.261	VV	23294	149057	8.71%	0.320%
478	20.283	20.261	20.288	VV	24850	372589	21.76%	0.800%
479	20.292	20.288	20.302	VV	24402	187146	10.93%	0.402%
480	20.319	20.302	20.326	VV	26093	324027	18.93%	0.695%
481	20.332	20.326	20.347	VV	25424	300911	17.57%	0.646%
482	20.352	20.347	20.357	VV	24018	140923	8.23%	0.302%
483	20.365	20.357	20.371	VV	25066	188441	11.01%	0.404%
484	20.377	20.371	20.397	VV	25568	374801	21.89%	0.804%
485	20.409	20.397	20.416	VV	26540	269905	15.76%	0.579%
486	20.428	20.416	20.439	VV	29795	377781	22.06%	0.811%
487	20.446	20.439	20.454	VV	26147	221340	12.93%	0.475%
488	20.469	20.454	20.475	VV	28768	331171	19.34%	0.711%
489	20.492	20.475	20.510	VV	31250	561577	32.80%	1.205%
490	20.519	20.510	20.526	VV	25609	236833	13.83%	0.508%
491	20.534	20.526	20.545	VV	27158	277757	16.22%	0.596%
492	20.550	20.545	20.557	VV	24997	162459	9.49%	0.349%
493	20.569	20.557	20.574	VV	28663	257831	15.06%	0.553%
494	20.579	20.574	20.589	VV	28248	221455	12.93%	0.475%
495	20.598	20.589	20.607	VV	25552	241080	14.08%	0.517%
496	20.627	20.607	20.635	VV	29197	413163	24.13%	0.887%
497	20.640	20.635	20.645	VV	26969	160793	9.39%	0.345%
498	20.660	20.645	20.666	VV	31877	350334	20.46%	0.752%
499	20.672	20.666	20.677	VV	34087	202763	11.84%	0.435%
500	20.682	20.677	20.687	VV	31464	177446	10.36%	0.381%
501	20.694	20.687	20.717	VV	32713	533477	31.16%	1.145%
502	20.726	20.717	20.735	VV	35730	345408	20.17%	0.741%
503	20.739	20.735	20.748	VV	32498	238002	13.90%	0.511%
504	20.762	20.748	20.779	VV	32084	557098	32.54%	1.196%
505	20.784	20.779	20.798	VV	26971	290040	16.94%	0.622%
506	20.817	20.798	20.841	VV	29819	696240	40.66%	1.494%

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507	20.847	20.841	20.857	VV	27836	264620	15.46%	0.568%
508	20.878	20.857	20.895	VV	27601	575036	33.59%	1.234%
509	20.900	20.895	20.912	VV	23998	236051	13.79%	0.507%
510	20.922	20.912	20.932	VV	27280	305370	17.84%	0.655%
511	20.940	20.932	20.947	VV	25549	211538	12.35%	0.454%
512	20.952	20.947	20.962	VV	25054	206398	12.05%	0.443%
513	20.970	20.962	20.987	VV	24095	339064	19.80%	0.728%
514	20.995	20.987	21.006	VV	24004	242943	14.19%	0.521%
515	21.018	21.006	21.035	VV	27484	443323	25.89%	0.951%
516	21.051	21.035	21.059	VV	30814	400718	23.40%	0.860%
517	21.067	21.059	21.077	VV	26276	264614	15.45%	0.568%
518	21.087	21.077	21.096	VV	29818	295506	17.26%	0.634%
519	21.105	21.096	21.111	VV	25156	206596	12.07%	0.443%
520	21.135	21.111	21.143	VV	29598	516401	30.16%	1.108%
521	21.165	21.143	21.179	VV	28787	598726	34.97%	1.285%
522	21.189	21.179	21.220	VV	29427	623636	36.42%	1.338%
523	21.230	21.220	21.241	VV	29261	320259	18.70%	0.687%
524	21.252	21.241	21.268	VV	27899	400560	23.39%	0.860%
525	21.280	21.268	21.294	VV	27370	371626	21.71%	0.798%
526	21.302	21.294	21.311	VV	25454	229989	13.43%	0.494%
527	21.317	21.311	21.323	VV	20975	142480	8.32%	0.306%
528	21.344	21.323	21.350	VV	22503	333692	19.49%	0.716%
529	21.357	21.350	21.363	VV	23450	174678	10.20%	0.375%
530	21.370	21.363	21.386	VV	21903	276732	16.16%	0.594%
531	21.395	21.386	21.401	VV	22259	176928	10.33%	0.380%
532	21.412	21.401	21.430	VV	21390	333778	19.49%	0.716%
533	21.434	21.430	21.441	VV	17985	117485	6.86%	0.252%
534	21.450	21.441	21.457	VV	17438	157801	9.22%	0.339%
535	21.463	21.457	21.471	VV	17208	126039	7.36%	0.270%
536	21.481	21.471	21.487	VV	16030	150971	8.82%	0.324%
537	21.496	21.487	21.504	VV	18204	160624	9.38%	0.345%
538	21.511	21.504	21.525	VV	16303	187894	10.97%	0.403%
539	21.540	21.525	21.545	VV	17216	181878	10.62%	0.390%
540	21.555	21.545	21.563	VV	18925	180065	10.52%	0.386%
541	21.571	21.563	21.579	VV	21084	184796	10.79%	0.397%
542	21.590	21.579	21.593	VV	21663	169996	9.93%	0.365%
543	21.601	21.593	21.608	VV	25702	201526	11.77%	0.433%
544	21.625	21.608	21.636	VV	26958	391051	22.84%	0.839%
545	21.640	21.636	21.647	VV	21009	142393	8.32%	0.306%
546	21.659	21.647	21.668	VV	22210	241143	14.08%	0.518%
547	21.685	21.668	21.711	VV	24353	491427	28.70%	1.055%
548	21.720	21.711	21.732	VV	15218	182547	10.66%	0.392%
549	21.738	21.732	21.755	VV	15390	185444	10.83%	0.398%
550	21.759	21.755	21.764	VV	10644	57598	3.36%	0.124%
551	21.768	21.764	21.775	VV	11409	67144	3.92%	0.144%
552	21.790	21.775	21.798	VV	13476	153259	8.95%	0.329%
553	21.809	21.798	21.815	VV	12213	121428	7.09%	0.261%
554	21.823	21.815	21.837	VV	13730	153633	8.97%	0.330%

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555	21.844	21.837	21.865	VV	12222	160622	9.38%	0.345%
556	21.870	21.865	21.883	VV	8899	67888	3.97%	0.146%
557	21.891	21.883	21.911	VV	6043	64881	3.79%	0.139%
558	21.920	21.911	21.926	PV	3804	21274	1.24%	0.046%
559	21.932	21.926	21.937	VV	4344	21375	1.25%	0.046%
560	21.944	21.937	21.950	VV	3852	26348	1.54%	0.057%
561	21.963	21.950	21.969	VV	6005	56529	3.30%	0.121%
562	21.979	21.969	21.985	VV	8684	72114	4.21%	0.155%
563	21.997	21.985	22.008	VV	10689	128191	7.49%	0.275%
564	22.015	22.008	22.034	VV	11897	152372	8.90%	0.327%
565	22.039	22.034	22.044	VV	10663	59137	3.45%	0.127%
566	22.048	22.044	22.054	VV	9322	50705	2.96%	0.109%
567	22.063	22.054	22.071	VV	12548	100908	5.89%	0.217%
568	22.079	22.071	22.089	VV	14673	119204	6.96%	0.256%
569	22.096	22.089	22.109	VV	9608	98568	5.76%	0.212%
570	22.124	22.109	22.129	VV	10307	112227	6.55%	0.241%
571	22.134	22.129	22.143	VV	10383	71490	4.18%	0.153%
572	22.152	22.143	22.167	VV	7690	99358	5.80%	0.213%
573	22.186	22.167	22.192	VV	9498	103940	6.07%	0.223%
574	22.218	22.192	22.227	VV	14394	208690	12.19%	0.448%
575	22.232	22.227	22.244	VV	10611	100319	5.86%	0.215%
576	22.250	22.244	22.255	VV	10063	64895	3.79%	0.139%
577	22.267	22.255	22.275	VV	11608	122040	7.13%	0.262%
578	22.282	22.275	22.293	VV	10769	87100	5.09%	0.187%
579	22.301	22.293	22.314	VV	7735	74493	4.35%	0.160%
580	22.319	22.314	22.325	VV	5462	31532	1.84%	0.068%
581	22.331	22.325	22.339	VV	6127	38746	2.26%	0.083%
582	22.347	22.339	22.356	VV	5152	31834	1.86%	0.068%
583	22.363	22.356	22.367	VV	2285	11234	0.66%	0.024%
584	22.377	22.367	22.385	VV	3558	21959	1.28%	0.047%
585	22.391	22.385	22.401	PBA	2525	45326	2.65%	0.097%

Sum of corrected areas: 46595120

FG121924.M Tue Dec 24 01:09:32 2024

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: PARS02

ProjectID: Con Edison Non-MGP - East River 453648.60024.03

Lab Code: CHEM Case No.: P5361 SAS No.: P5361 SDG No.: P5361

Calibration Sequence : FG121924		Test : TPH GC	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1700	200331626	117842	FG014987.D
850	106454179	125240	FG014988.D
340	43934817	129220	FG014989.D
170	26196418	154097	FG014990.D
85	12067151	141966	FG014991.D
AVG RF : 133673	**% RSD : 10.76**		**AVG RT : 15.074**

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014987.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 14:32
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 15:17:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 15:13:43 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...	15.080	11925865	96.659 ug/ml
Target Compounds				
1)	N-OCTANE	2.019	11110211	97.913 ug/ml
2)	N-DECANE	4.564	11348976	97.683 ug/ml
3)	N-DODECANE	6.749	11980293	97.731 ug/ml
4)	N-TETRADECANE	8.588	11952741	97.633 ug/ml
5)	N-HEXADECANE	10.206	12433366	97.435 ug/ml
6)	N-OCTADECANE	11.657	13077662	97.256 ug/ml
7)	N-EICOSANE	12.973	13015211	97.043 ug/ml
8)	N-DOCOSANE	14.177	13029408	96.796 ug/ml
10)	N-TETRACOSANE	15.285	13114938	96.605 ug/ml
11)	N-HEXACOSANE	16.311	12998309	96.386 ug/ml
12)	N-OCTACOSANE	17.264	12787708	96.044 ug/ml
13)	N-TRIACONTANE	18.154	12616939	95.976 ug/ml
14)	N-DOTRIACONTANE	18.989	12218550	96.002 ug/ml
15)	N-TETRATRIACONTANE	19.776	11127813	96.350 ug/ml
16)	N-HEXATRIACONTANE	20.517	9743072	96.845 ug/ml
17)	N-OCTATRIACONTANE	21.272	9088005	97.643 ug/ml
18)	N-TETRACONTANE	22.227	8688424	97.541 ug/ml

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

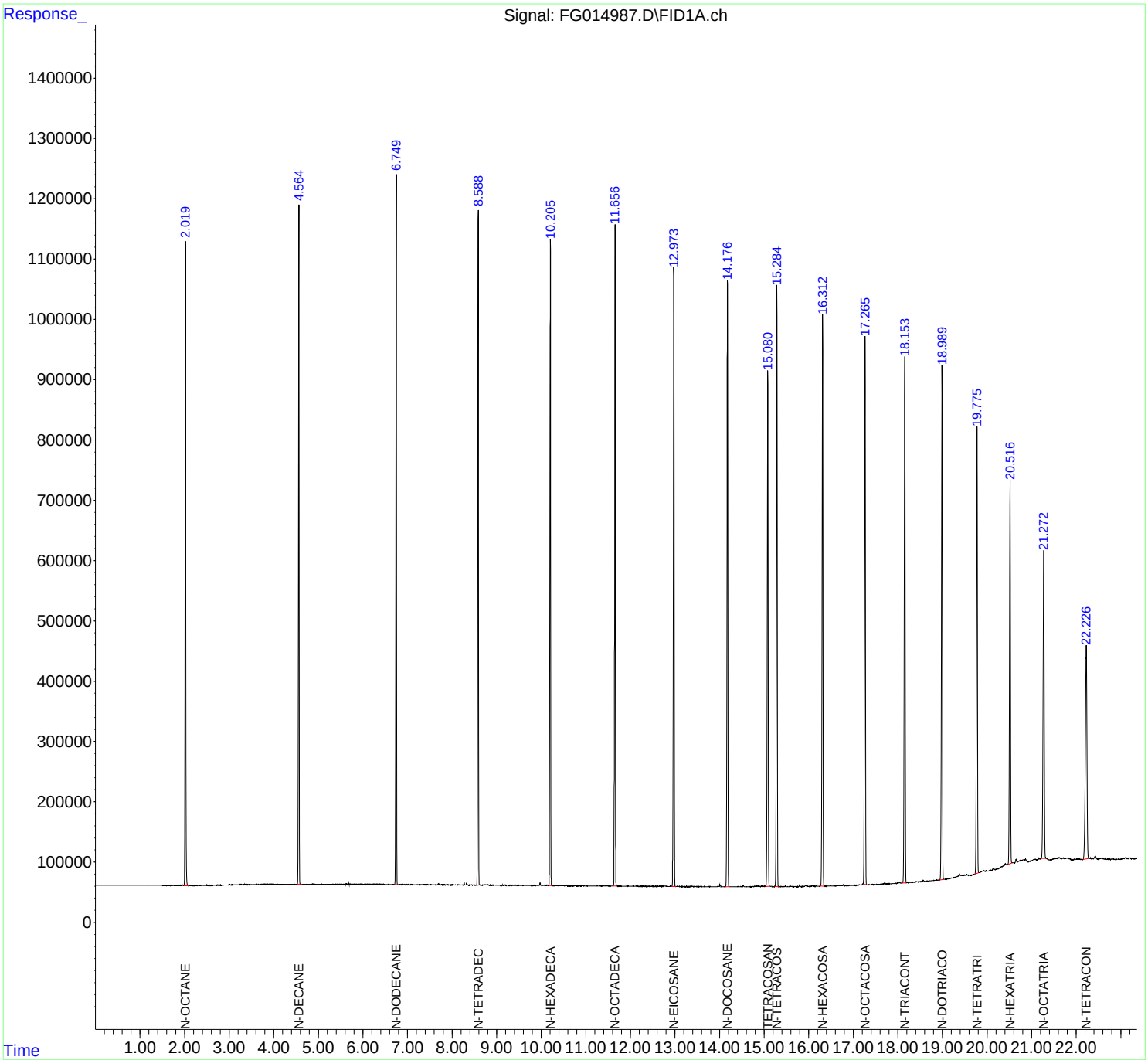
Quantitation Report (QT Reviewed)

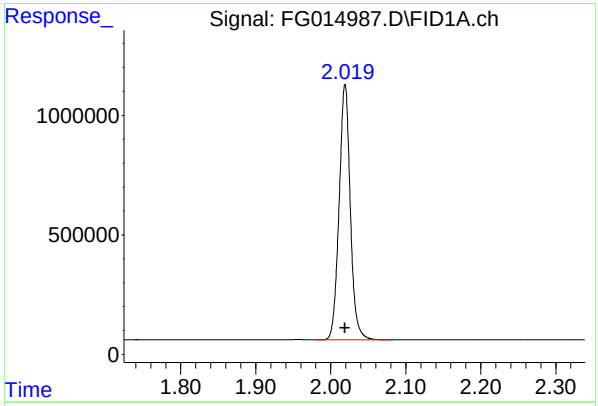
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014987.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 14:32
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 15:17:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 15:13:43 2024
Response via : Initial Calibration
Integrator: ChemStation

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

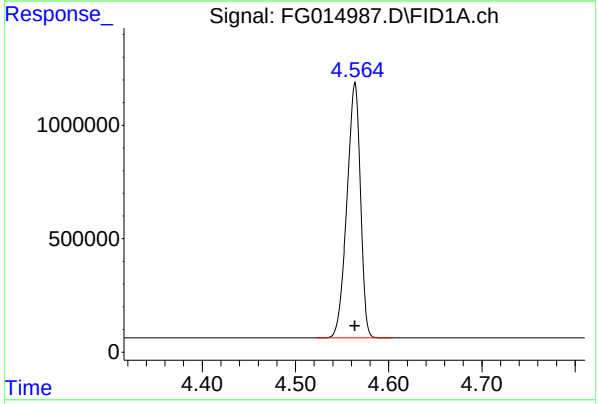




#1 N-OCTANE

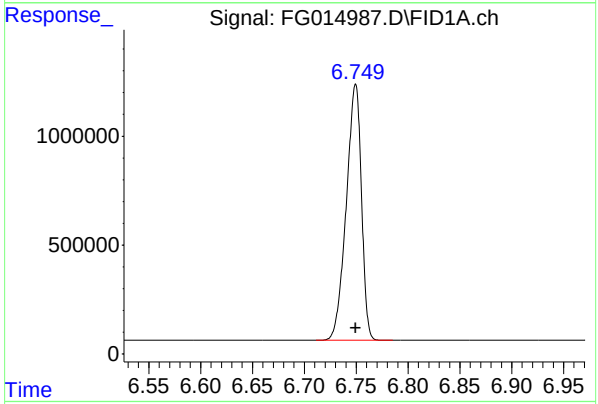
R.T.: 2.019 min
Delta R.T.: 0.000 min
Response: 11110211
Conc: 97.91 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



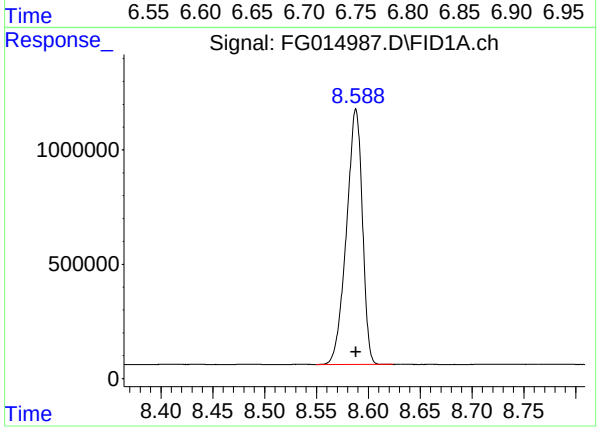
#2 N-DECANE

R.T.: 4.564 min
Delta R.T.: 0.000 min
Response: 11348976
Conc: 97.68 ug/ml



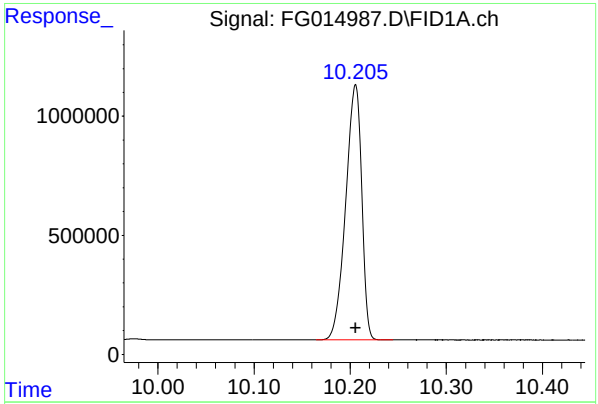
#3 N-DODECANE

R.T.: 6.749 min
Delta R.T.: 0.000 min
Response: 11980293
Conc: 97.73 ug/ml



#4 N-TETRADECANE

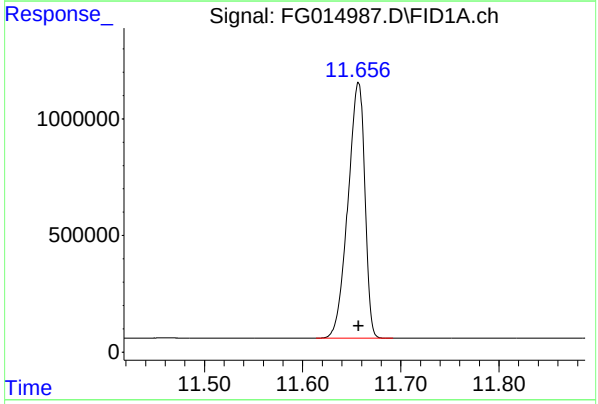
R.T.: 8.588 min
Delta R.T.: 0.000 min
Response: 11952741
Conc: 97.63 ug/ml



#5 N-HEXADECANE

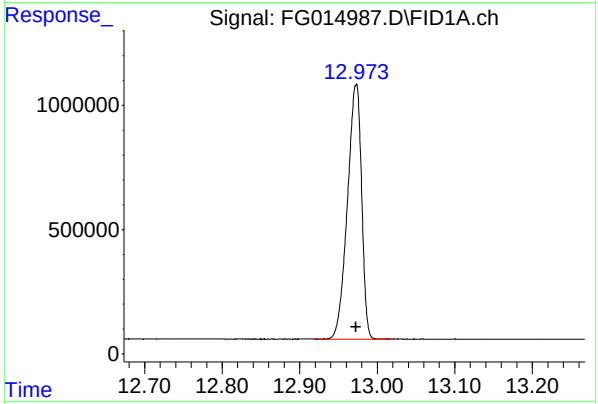
R.T.: 10.206 min
Delta R.T.: 0.000 min
Response: 12433366
Conc: 97.44 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



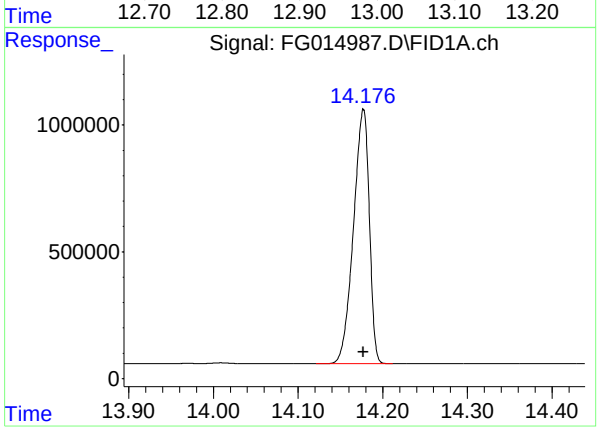
#6 N-OCTADECANE

R.T.: 11.657 min
Delta R.T.: 0.000 min
Response: 13077662
Conc: 97.26 ug/ml



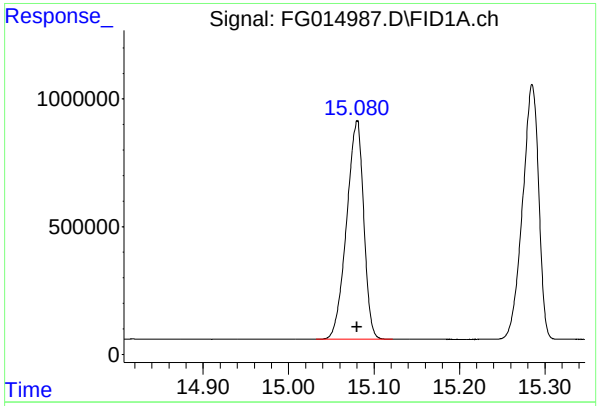
#7 N-EICOSANE

R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 13015211
Conc: 97.04 ug/ml



#8 N-DOCOSANE

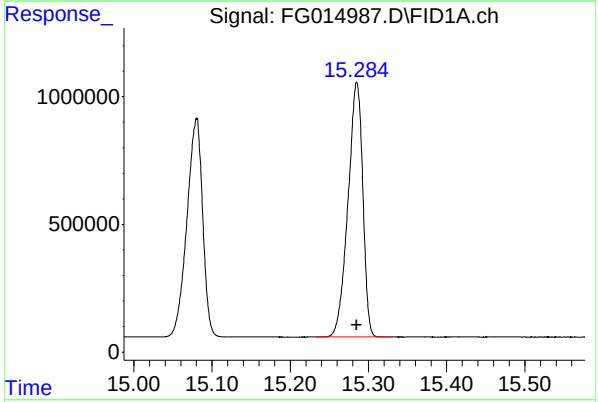
R.T.: 14.177 min
Delta R.T.: 0.000 min
Response: 13029408
Conc: 96.80 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

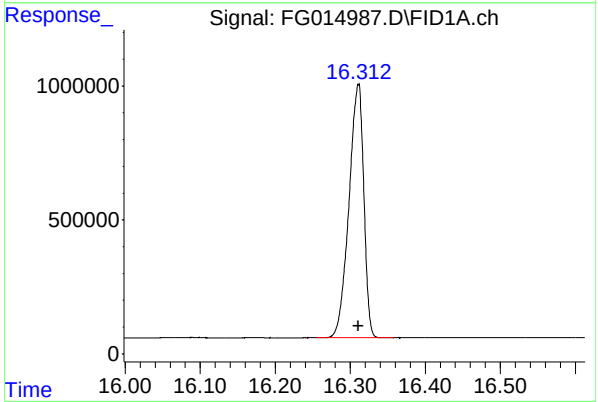
R.T.: 15.080 min
Delta R.T.: 0.000 min
Response: 11925865
Conc: 96.66 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



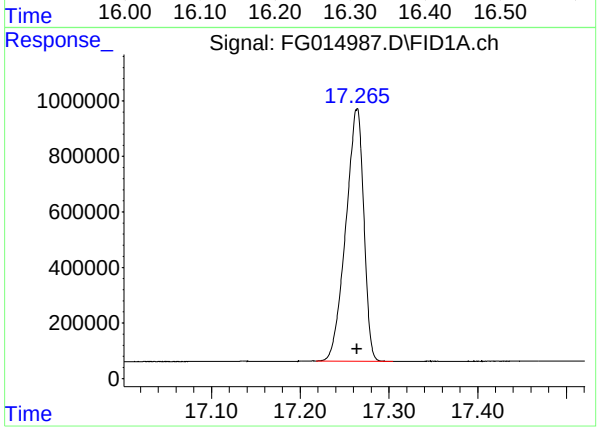
#10 N-TETRACOSANE

R.T.: 15.285 min
Delta R.T.: 0.000 min
Response: 13114938
Conc: 96.60 ug/ml



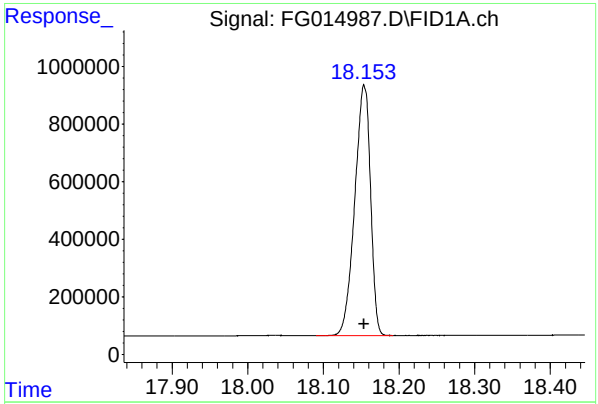
#11 N-HEXACOSANE

R.T.: 16.311 min
Delta R.T.: 0.000 min
Response: 12998309
Conc: 96.39 ug/ml



#12 N-OCTACOSANE

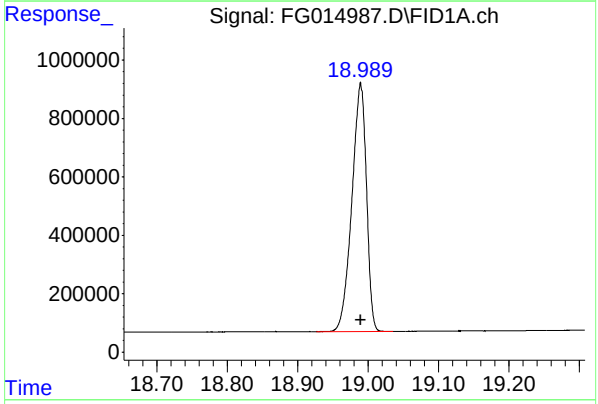
R.T.: 17.264 min
Delta R.T.: 0.000 min
Response: 12787708
Conc: 96.04 ug/ml



#13 N-TRIACONTANE

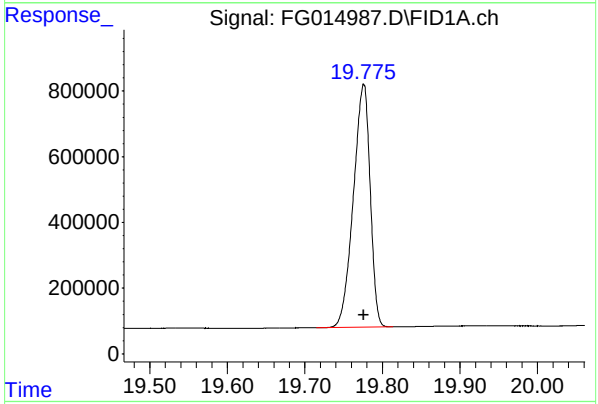
R.T.: 18.154 min
Delta R.T.: 0.000 min
Response: 12616939
Conc: 95.98 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



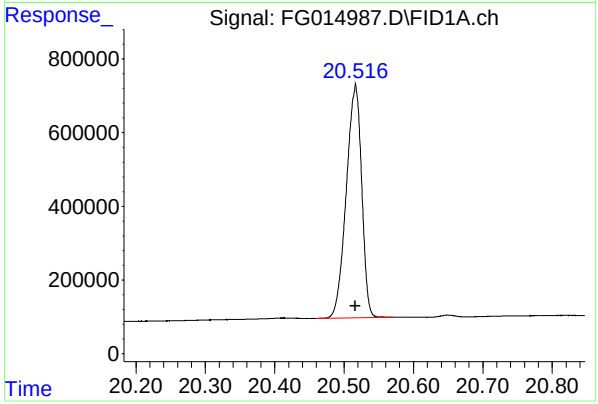
#14 N-DOTRIACONTANE

R.T.: 18.989 min
Delta R.T.: 0.000 min
Response: 12218550
Conc: 96.00 ug/ml



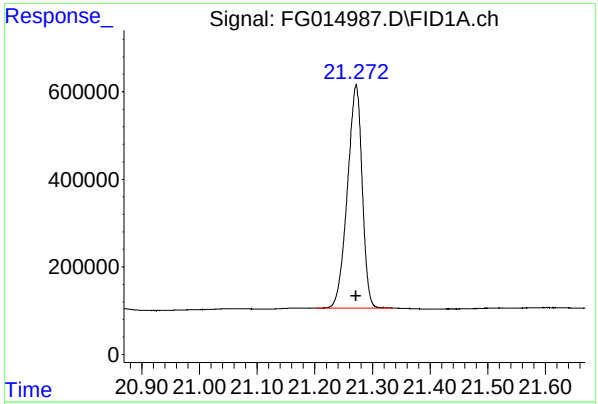
#15 N-TETRATRIACONTANE

R.T.: 19.776 min
Delta R.T.: 0.000 min
Response: 11127813
Conc: 96.35 ug/ml



#16 N-HEXATRIACONTANE

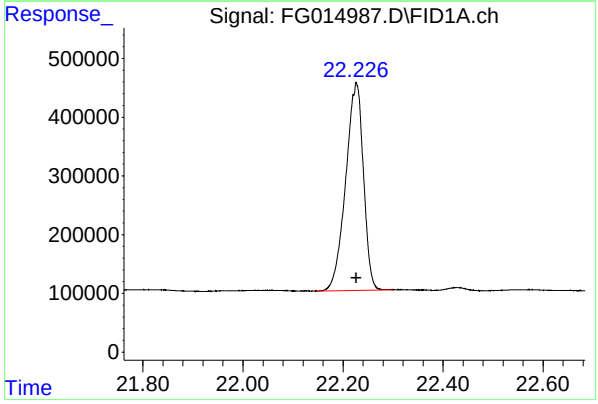
R.T.: 20.517 min
Delta R.T.: 0.000 min
Response: 9743072
Conc: 96.84 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.272 min
Delta R.T.: 0.000 mi
Response: 9088005
Conc: 97.64 ug/m

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.227 min
Delta R.T.: 0.000 min
Response: 8688424
Conc: 97.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014987.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 14:32
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.019	1.980	2.083	BB	1069253	11110211	84.71%	5.234%
2	4.564	4.522	4.604	BB	1125723	11348976	86.53%	5.347%
3	6.749	6.711	6.785	BB	1177267	11980293	91.35%	5.644%
4	8.588	8.550	8.624	BB	1118043	11952741	91.14%	5.631%
5	10.206	10.165	10.245	BB	1072221	12433366	94.80%	5.858%
6	11.657	11.614	11.692	BB	1095907	13077662	99.72%	6.161%
7	12.973	12.921	13.020	BB	1022758	13015211	99.24%	6.132%
8	14.177	14.121	14.212	BB	1004181	13029408	99.35%	6.138%
9	15.080	15.032	15.122	BB	854778	11925865	90.93%	5.619%
10	15.285	15.233	15.331	BB	998050	13114938	100.00%	6.179%
11	16.311	16.255	16.357	BB	944327	12998309	99.11%	6.124%
12	17.264	17.218	17.305	BB	905577	12787708	97.50%	6.025%
13	18.154	18.090	18.192	BB	871002	12616939	96.20%	5.944%
14	18.989	18.926	19.035	BB	851570	12218550	93.17%	5.756%
15	19.776	19.715	19.814	BB	738552	11127813	84.85%	5.243%
16	20.517	20.460	20.570	BB	635189	9743072	74.29%	4.590%
17	21.272	21.202	21.335	BB	511347	9088005	69.30%	4.282%
18	22.227	22.146	22.300	BBA	352878	8688424	66.25%	4.093%

Sum of corrected areas: 212257488

FG121924.M Thu Dec 19 16:48:14 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014988.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:01
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 15:16:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 15:13:43 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...	15.077	6375111	50.000 ug/ml
	Target Compounds			
1)	N-OCTANE	2.018	5791922	50.000 ug/ml
2)	N-DECANE	4.560	5943718	50.000 ug/ml
3)	N-DODECANE	6.745	6268238	50.000 ug/ml
4)	N-TETRADECANE	8.584	6266153	50.000 ug/ml
5)	N-HEXADECANE	10.200	6543945	50.000 ug/ml
6)	N-OCTADECANE	11.652	6907764	50.000 ug/ml
7)	N-EICOSANE	12.968	6904204	50.000 ug/ml
8)	N-DOCOSANE	14.173	6946035	50.000 ug/ml
10)	N-TETRACOSANE	15.282	7018431	50.000 ug/ml
11)	N-HEXACOSANE	16.308	6986570	50.000 ug/ml
12)	N-OCTACOSANE	17.261	6920572	50.000 ug/ml
13)	N-TRIACONTANE	18.152	6837519	50.000 ug/ml
14)	N-DOTRIACONTANE	18.989	6618057	50.000 ug/ml
15)	N-TETRATRIACONTANE	19.775	5985475	50.000 ug/ml
16)	N-HEXATRIACONTANE	20.517	5188983	50.000 ug/ml
17)	N-OCTATRIACONTANE	21.272	4763360	50.000 ug/ml
18)	N-TETRACONTANE	22.228	4563233	50.000 ug/ml

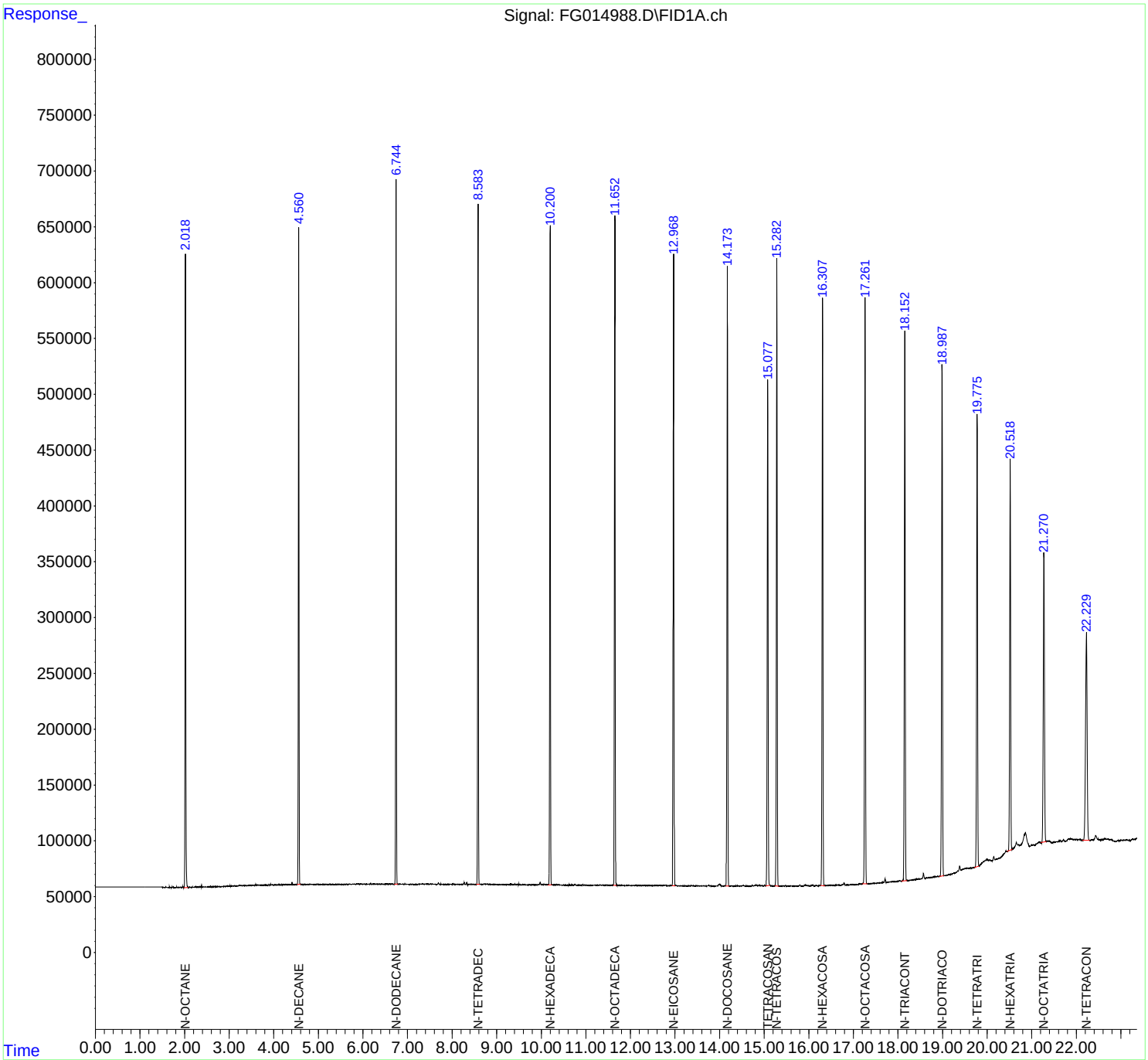
(f)=RT Delta > 1/2 Window (m)=manual int.

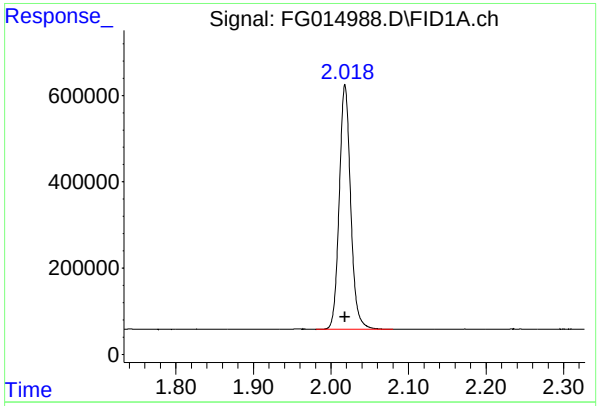
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014988.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:01
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 15:16:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 15:13:43 2024
Response via : Initial Calibration
Integrator: ChemStation

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

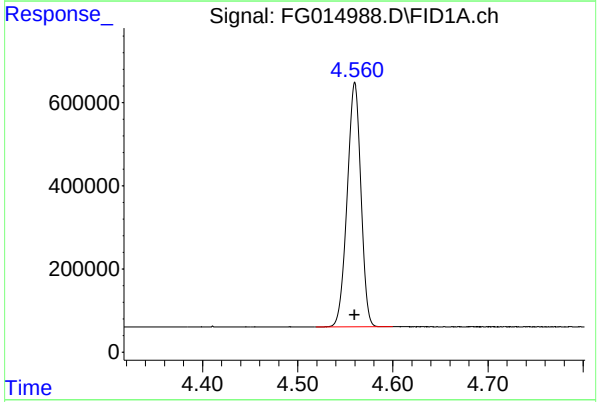




#1 N-OCTANE

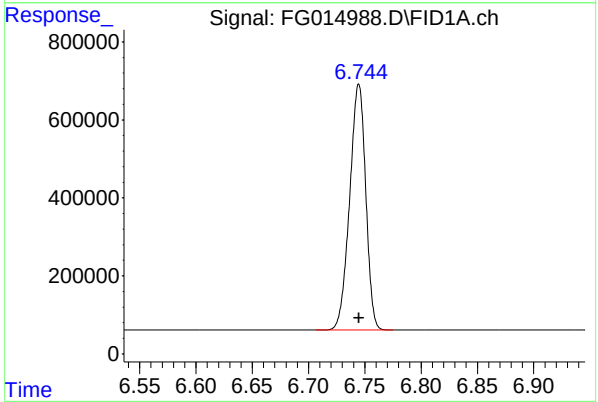
R.T.: 2.018 min
Delta R.T.: 0.000 min
Response: 5791922
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



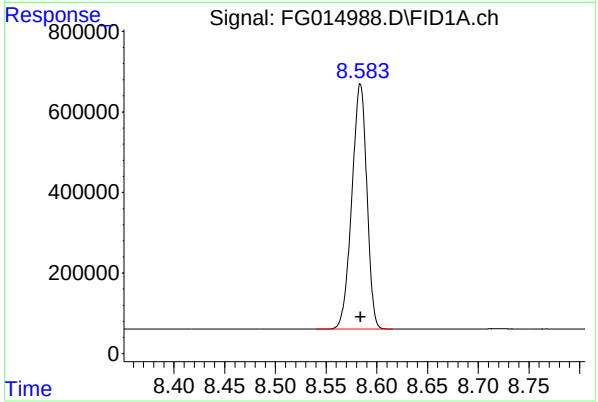
#2 N-DECANE

R.T.: 4.560 min
Delta R.T.: 0.000 min
Response: 5943718
Conc: 50.00 ug/ml



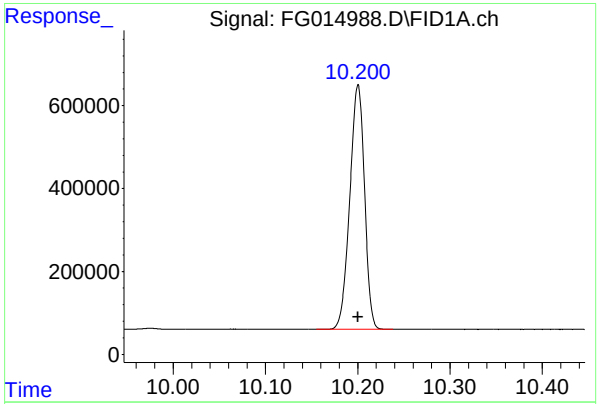
#3 N-DODECANE

R.T.: 6.745 min
Delta R.T.: 0.000 min
Response: 6268238
Conc: 50.00 ug/ml



#4 N-TETRADECANE

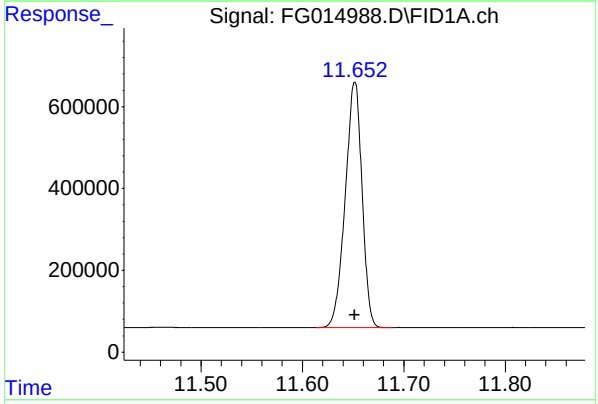
R.T.: 8.584 min
Delta R.T.: 0.000 min
Response: 6266153
Conc: 50.00 ug/ml



#5 N-HEXADECANE

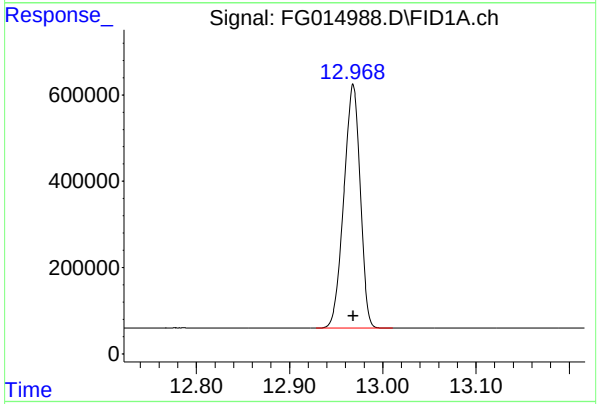
R.T.: 10.200 min
Delta R.T.: 0.000 min
Response: 6543945
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



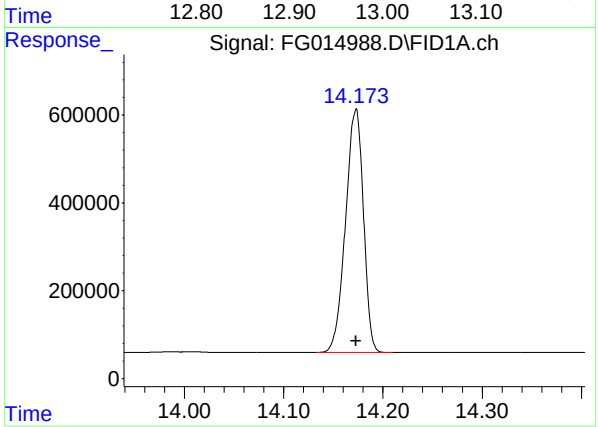
#6 N-OCTADECANE

R.T.: 11.652 min
Delta R.T.: 0.000 min
Response: 6907764
Conc: 50.00 ug/ml



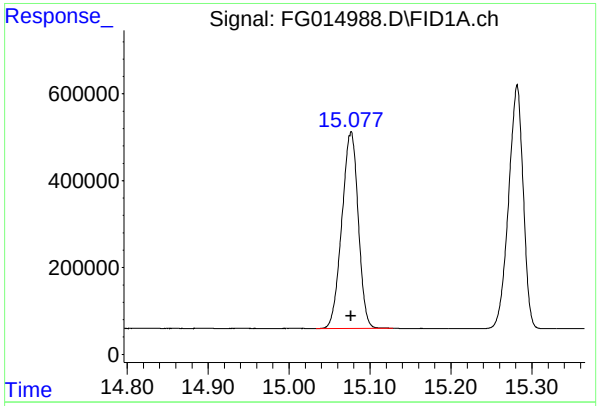
#7 N-EICOSANE

R.T.: 12.968 min
Delta R.T.: 0.000 min
Response: 6904204
Conc: 50.00 ug/ml



#8 N-DOCOSANE

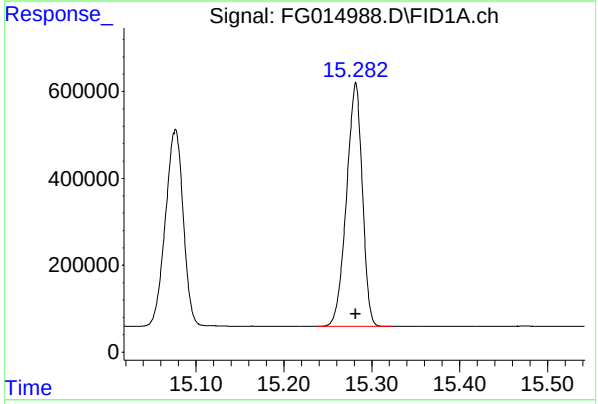
R.T.: 14.173 min
Delta R.T.: 0.000 min
Response: 6946035
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

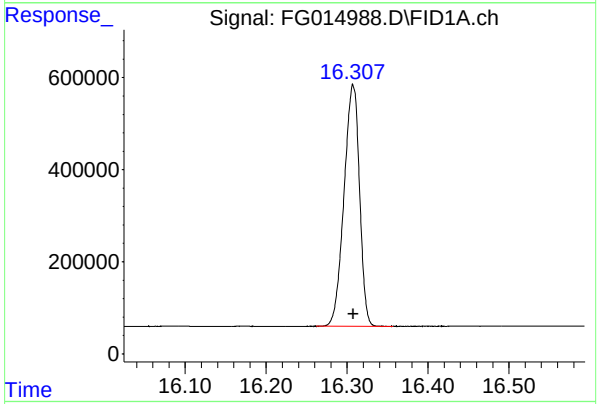
R.T.: 15.077 min
Delta R.T.: 0.000 min
Response: 6375111
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



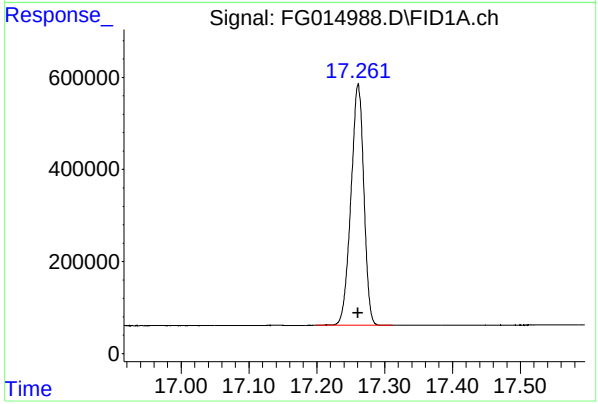
#10 N-TETRACOSANE

R.T.: 15.282 min
Delta R.T.: 0.000 min
Response: 7018431
Conc: 50.00 ug/ml



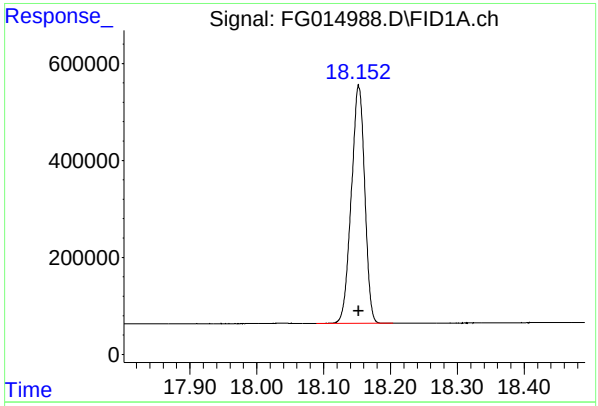
#11 N-HEXACOSANE

R.T.: 16.308 min
Delta R.T.: 0.000 min
Response: 6986570
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

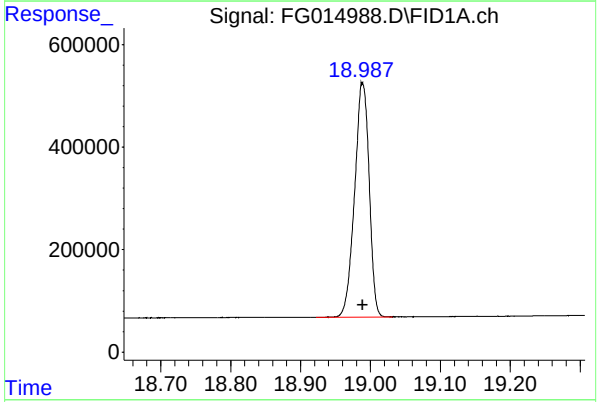
R.T.: 17.261 min
Delta R.T.: 0.000 min
Response: 6920572
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

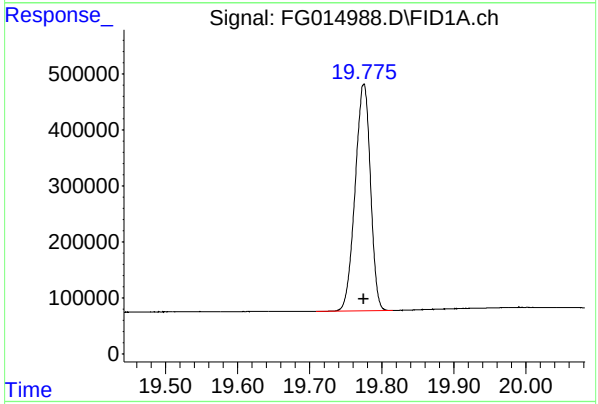
R.T.: 18.152 min
Delta R.T.: 0.000 min
Response: 6837519
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



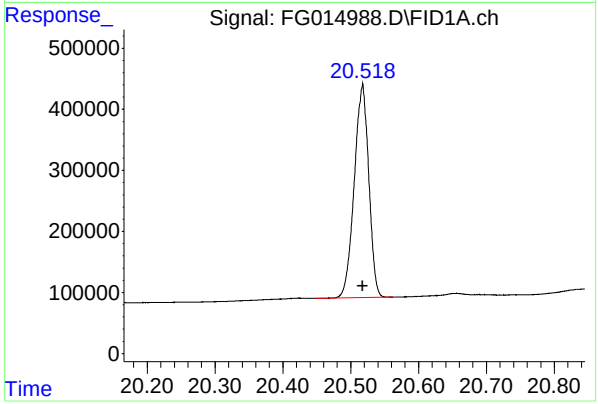
#14 N-DOTRIACONTANE

R.T.: 18.989 min
Delta R.T.: 0.000 min
Response: 6618057
Conc: 50.00 ug/ml



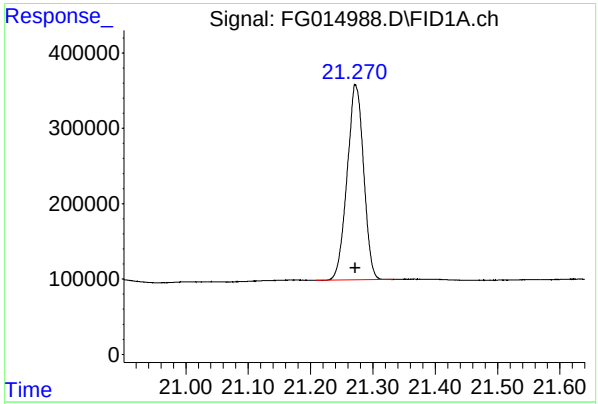
#15 N-TETRATRIACONTANE

R.T.: 19.775 min
Delta R.T.: 0.000 min
Response: 5985475
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

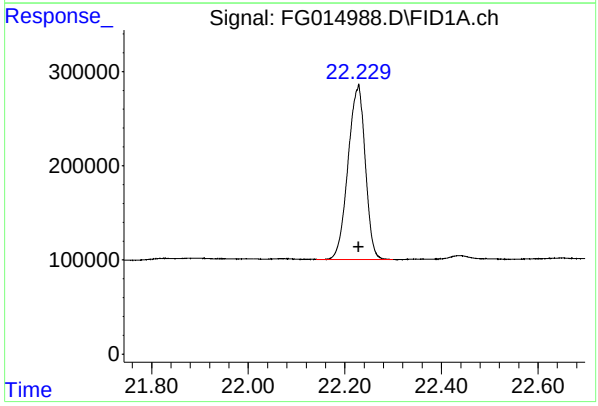
R.T.: 20.517 min
Delta R.T.: 0.000 min
Response: 5188983
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.272 min
Delta R.T.: 0.000 min
Response: 4763360
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.228 min
Delta R.T.: 0.000 min
Response: 4563233
Conc: 50.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014988.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:01
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.018	1.981	2.080	BB	567289	5791922	82.52%	5.133%
2	4.560	4.519	4.600	BB	588101	5943718	84.69%	5.268%
3	6.745	6.707	6.775	BB	630930	6268238	89.31%	5.556%
4	8.584	8.540	8.616	BB	607870	6266153	89.28%	5.554%
5	10.200	10.155	10.238	BB	590577	6543945	93.24%	5.800%
6	11.652	11.613	11.689	BB	600046	6907764	98.42%	6.122%
7	12.968	12.928	13.011	BB	564493	6904204	98.37%	6.119%
8	14.173	14.133	14.210	BB	553627	6946035	98.97%	6.156%
9	15.077	15.033	15.128	BB	453309	6375111	90.83%	5.650%
10	15.282	15.237	15.324	BB	561264	7018431	100.00%	6.220%
11	16.308	16.262	16.357	BB	523399	6986570	99.55%	6.192%
12	17.261	17.199	17.312	BB	522303	6920572	98.61%	6.134%
13	18.152	18.089	18.204	BB	490956	6837519	97.42%	6.060%
14	18.989	18.922	19.032	BB	455691	6618057	94.30%	5.866%
15	19.775	19.709	19.815	BB	404671	5985475	85.28%	5.305%
16	20.517	20.449	20.562	BB	346735	5188983	73.93%	4.599%
17	21.272	21.209	21.332	BB	258255	4763360	67.87%	4.222%
18	22.228	22.140	22.300	BBA	186132	4563233	65.02%	4.044%
			Sum of corrected areas:			112829289		

FG121924.M Thu Dec 19 16:48:30 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014989.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:29
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 15:41:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 15:41:31 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...	15.072	2587289	20.636 ug/ml
Target Compounds				
1)	N-OCTANE	2.020	2376215	20.618 ug/ml
2)	N-DECANE	4.558	2449289	20.708 ug/ml
3)	N-DODECANE	6.742	2589475	20.736 ug/ml
4)	N-TETRADECANE	8.581	2590236	20.757 ug/ml
5)	N-HEXADECANE	10.197	2701782	20.767 ug/ml
6)	N-OCTADECANE	11.648	2847684	20.770 ug/ml
7)	N-EICOSANE	12.964	2833663	20.738 ug/ml
8)	N-DOCOSANE	14.169	2839166	20.715 ug/ml
10)	N-TETRACOSANE	15.278	2860445	20.701 ug/ml
11)	N-HEXACOSANE	16.302	2838385	20.686 ug/ml
12)	N-OCTACOSANE	17.256	2832554	20.832 ug/ml
13)	N-TRIACONTANE	18.147	2853207	21.105 ug/ml
14)	N-DOTRIACONTANE	18.983	2787984	21.231 ug/ml
15)	N-TETRATRIACONTANE	19.770	2499156	21.064 ug/ml
16)	N-HEXATRIACONTANE	20.513	2171430	21.029 ug/ml
17)	N-OCTATRIACONTANE	21.268	1980349	20.834 ug/ml
18)	N-TETRACONTANE	22.219	1883797	20.751 ug/ml

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

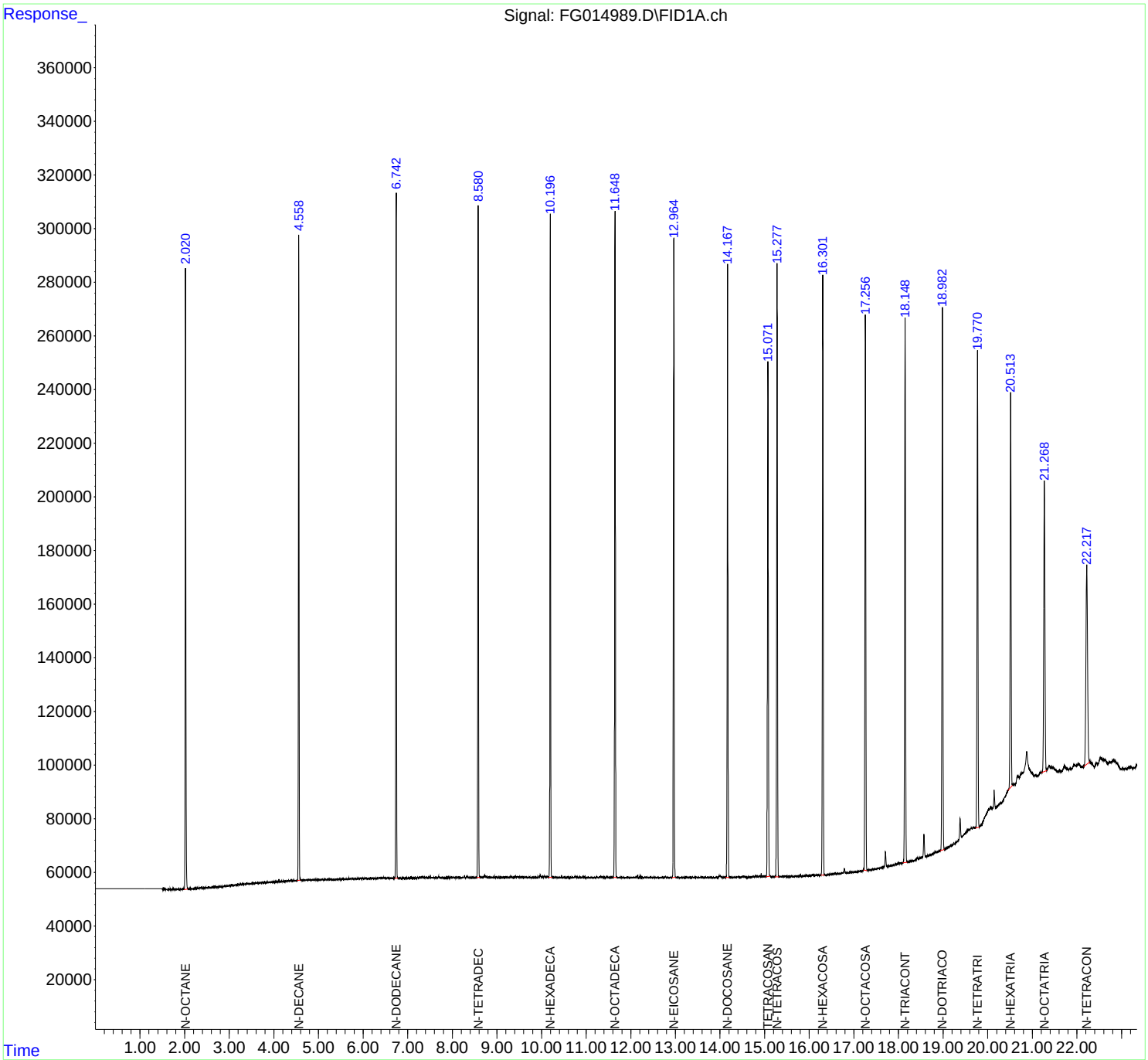
Quantitation Report (QT Reviewed)

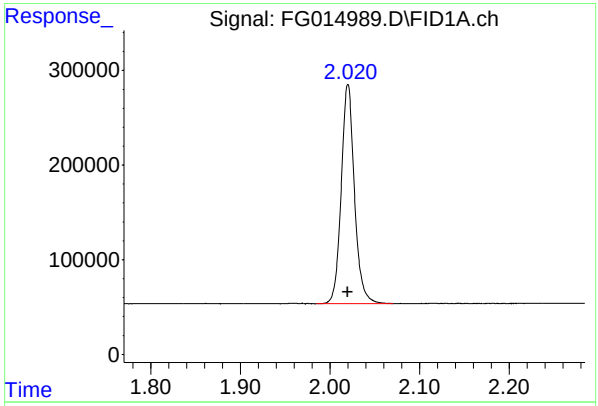
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014989.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:29
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 15:41:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 15:41:31 2024
Response via : Initial Calibration
Integrator: ChemStation

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

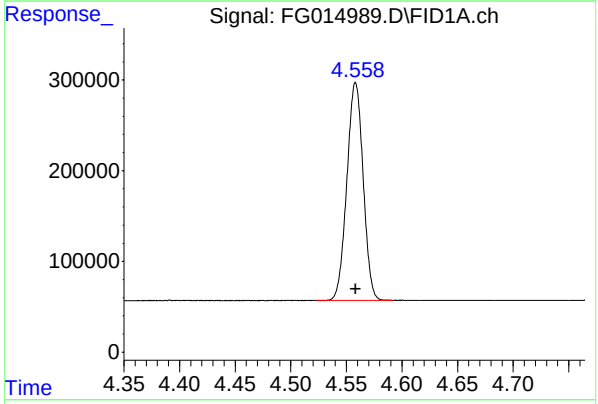




#1 N-OCTANE

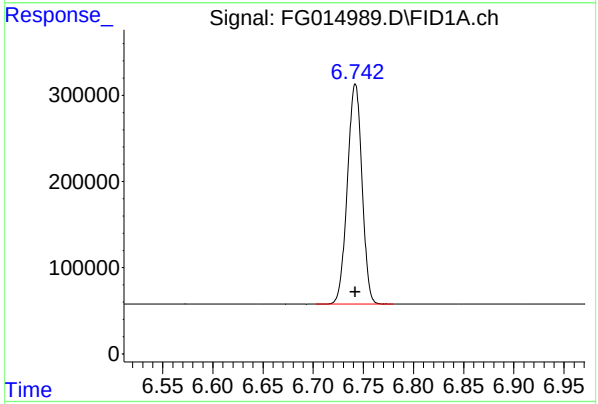
R.T.: 2.020 min
Delta R.T.: 0.000 min
Response: 2376215
Conc: 20.62 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



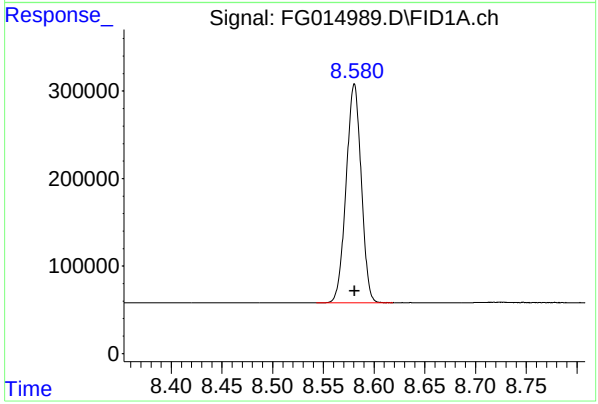
#2 N-DECANE

R.T.: 4.558 min
Delta R.T.: 0.000 min
Response: 2449289
Conc: 20.71 ug/ml



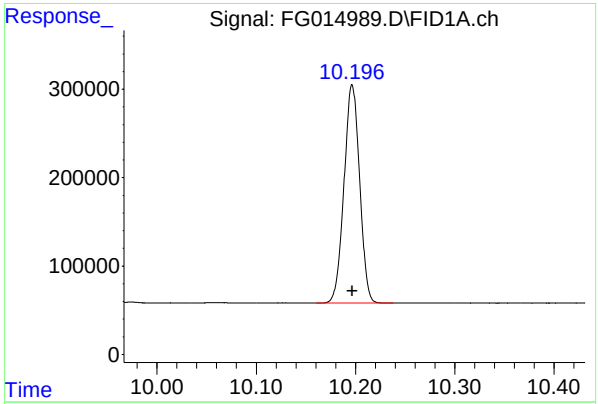
#3 N-DODECANE

R.T.: 6.742 min
Delta R.T.: 0.000 min
Response: 2589475
Conc: 20.74 ug/ml



#4 N-TETRADECANE

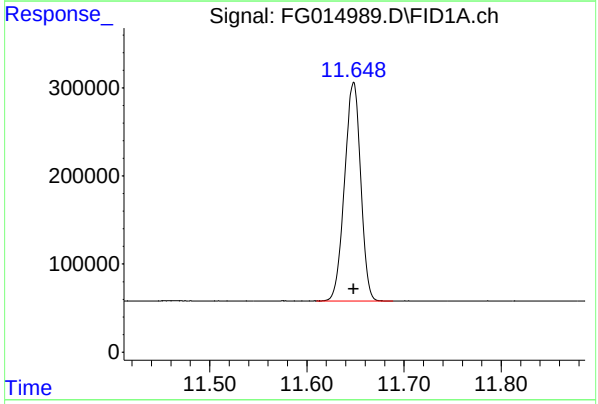
R.T.: 8.581 min
Delta R.T.: 0.000 min
Response: 2590236
Conc: 20.76 ug/ml



#5 N-HEXADECANE

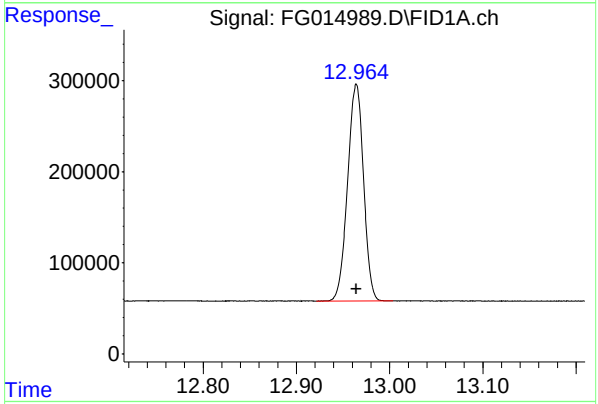
R.T.: 10.197 min
Delta R.T.: 0.000 min
Response: 2701782
Conc: 20.77 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



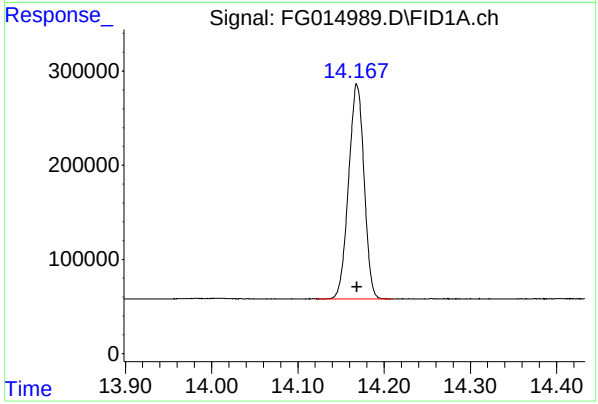
#6 N-OCTADECANE

R.T.: 11.648 min
Delta R.T.: 0.000 min
Response: 2847684
Conc: 20.77 ug/ml



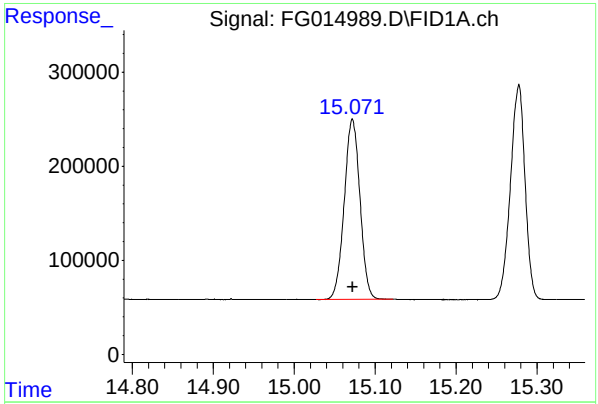
#7 N-EICOSANE

R.T.: 12.964 min
Delta R.T.: 0.000 min
Response: 2833663
Conc: 20.74 ug/ml



#8 N-DOCOSANE

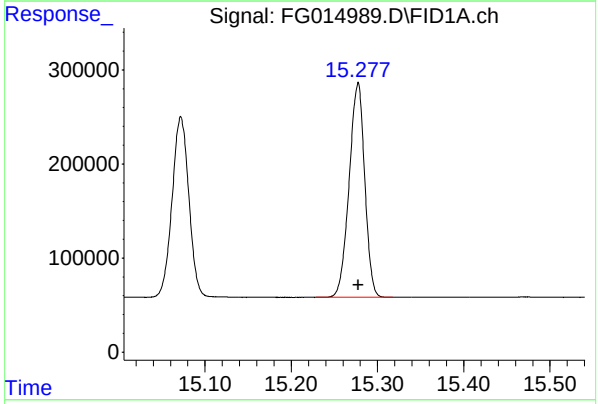
R.T.: 14.169 min
Delta R.T.: 0.000 min
Response: 2839166
Conc: 20.72 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

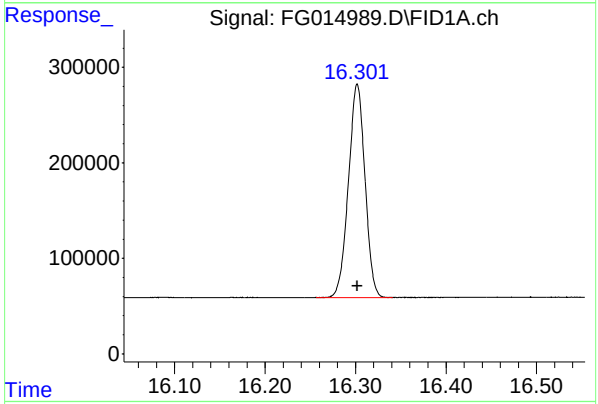
R.T.: 15.072 min
Delta R.T.: 0.000 min
Response: 2587289
Conc: 20.64 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



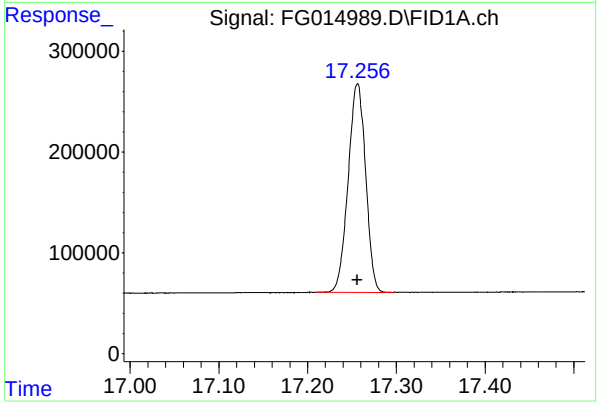
#10 N-TETRACOSANE

R.T.: 15.278 min
Delta R.T.: 0.000 min
Response: 2860445
Conc: 20.70 ug/ml



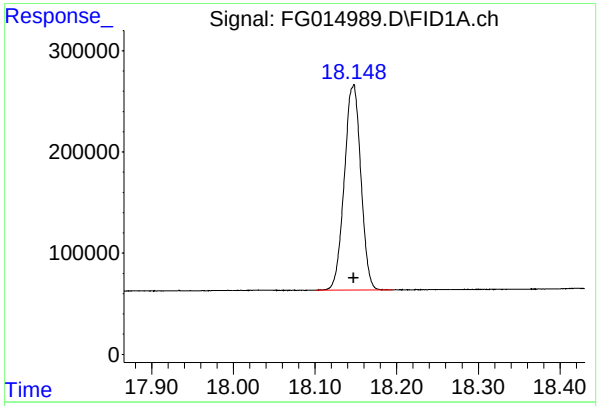
#11 N-HEXACOSANE

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 2838385
Conc: 20.69 ug/ml



#12 N-OCTACOSANE

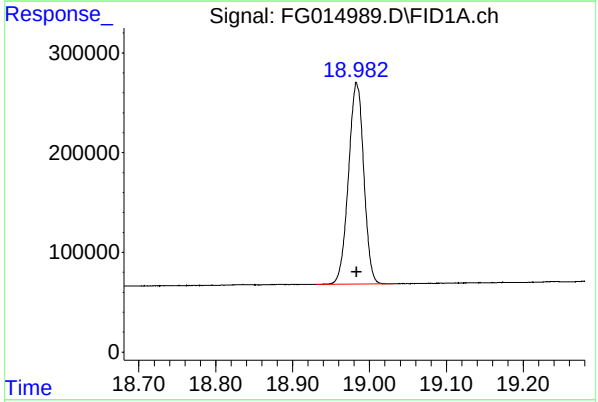
R.T.: 17.256 min
Delta R.T.: 0.000 min
Response: 2832554
Conc: 20.83 ug/ml



#13 N-TRIACONTANE

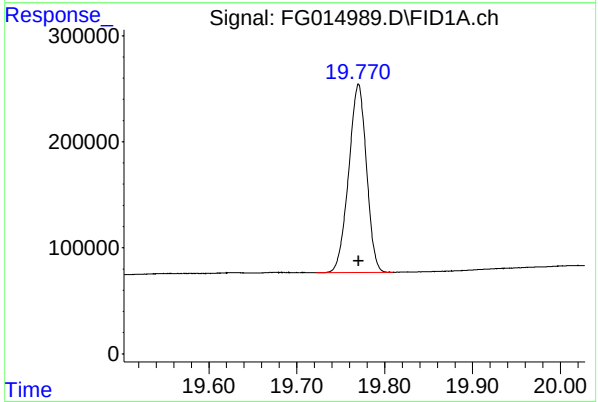
R.T.: 18.147 min
Delta R.T.: 0.000 min
Response: 2853207
Conc: 21.10 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



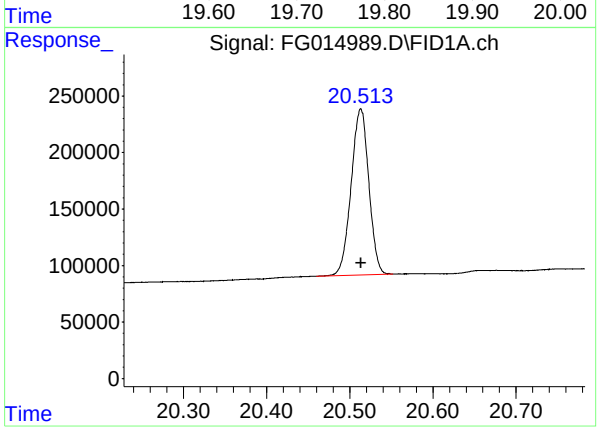
#14 N-DOTRIACONTANE

R.T.: 18.983 min
Delta R.T.: 0.000 min
Response: 2787984
Conc: 21.23 ug/ml



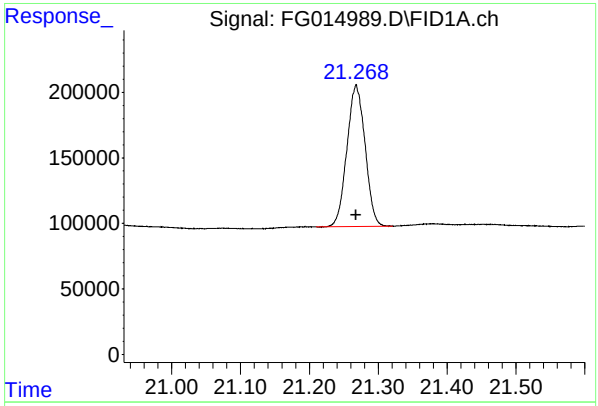
#15 N-TETRATRIACONTANE

R.T.: 19.770 min
Delta R.T.: 0.000 min
Response: 2499156
Conc: 21.06 ug/ml



#16 N-HEXATRIACONTANE

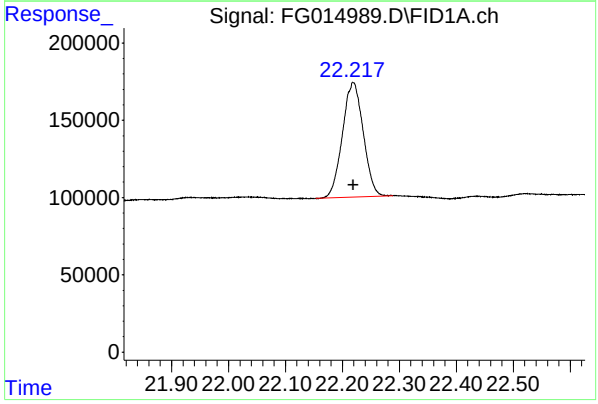
R.T.: 20.513 min
Delta R.T.: 0.000 min
Response: 2171430
Conc: 21.03 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.268 min
Delta R.T.: 0.000 min
Response: 1980349
Conc: 20.83 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.219 min
Delta R.T.: 0.000 min
Response: 1883797
Conc: 20.75 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014989.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:29
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.020	1.985	2.070	BB	231789	2376215	83.07%	5.108%
2	4.558	4.523	4.592	BB	240267	2449289	85.63%	5.265%
3	6.742	6.703	6.780	BB	255494	2589475	90.53%	5.566%
4	8.581	8.543	8.619	BB	250139	2590236	90.55%	5.568%
5	10.197	10.160	10.238	BB	247216	2701782	94.45%	5.808%
6	11.648	11.610	11.689	BB	247635	2847684	99.55%	6.121%
7	12.964	12.921	13.004	BB	238322	2833663	99.06%	6.091%
8	14.169	14.121	14.210	BB	226662	2839166	99.26%	6.103%
9	15.072	15.027	15.122	BB	191963	2587289	90.45%	5.561%
10	15.278	15.229	15.318	BB	228751	2860445	100.00%	6.149%
11	16.302	16.256	16.341	BB	223685	2838385	99.23%	6.101%
12	17.256	17.210	17.296	BB	206763	2832554	99.02%	6.089%
13	18.147	18.101	18.195	BB	201672	2853207	99.75%	6.133%
14	18.983	18.930	19.030	BB	201399	2787984	97.47%	5.993%
15	19.770	19.722	19.810	BB	177632	2499156	87.37%	5.372%
16	20.513	20.460	20.552	BB	147351	2171430	75.91%	4.668%
17	21.268	21.210	21.321	BB	108367	1980349	69.23%	4.257%
18	22.219	22.154	22.289	BB	74041	1883797	65.86%	4.049%
			Sum of corrected areas:			46522105		

FG121924.M Thu Dec 19 16:48:44 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014990.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:57
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 16:10:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:09:56 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...	15.071	1536504	11.601 ug/ml
	Target Compounds			
1)	N-OCTANE	2.022	1419718	11.644 ug/ml
2)	N-DECANE	4.558	1476623	11.754 ug/ml
3)	N-DODECANE	6.741	1565328	11.788 ug/ml
4)	N-TETRADECANE	8.579	1570091	11.819 ug/ml
5)	N-HEXADECANE	10.196	1638386	11.827 ug/ml
6)	N-OCTADECANE	11.647	1723122	11.810 ug/ml
7)	N-EICOSANE	12.963	1708790	11.769 ug/ml
8)	N-DOCOSANE	14.167	1702540	11.713 ug/ml
10)	N-TETRACOSANE	15.276	1705871	11.662 ug/ml
11)	N-HEXACOSANE	16.302	1686678	11.626 ug/ml
12)	N-OCTACOSANE	17.255	1680427	11.670 ug/ml
13)	N-TRIACONTANE	18.147	1681963	11.726 ug/ml
14)	N-DOTRIACONTANE	18.983	1640283	11.759 ug/ml
15)	N-TETRATRIACONTANE	19.769	1475006	11.719 ug/ml
16)	N-HEXATRIACONTANE	20.512	1275345	11.665 ug/ml
17)	N-OCTATRIACONTANE	21.268	1171872	11.650 ug/ml
18)	N-TETRACONTANE	22.217	1074375	11.316 ug/ml

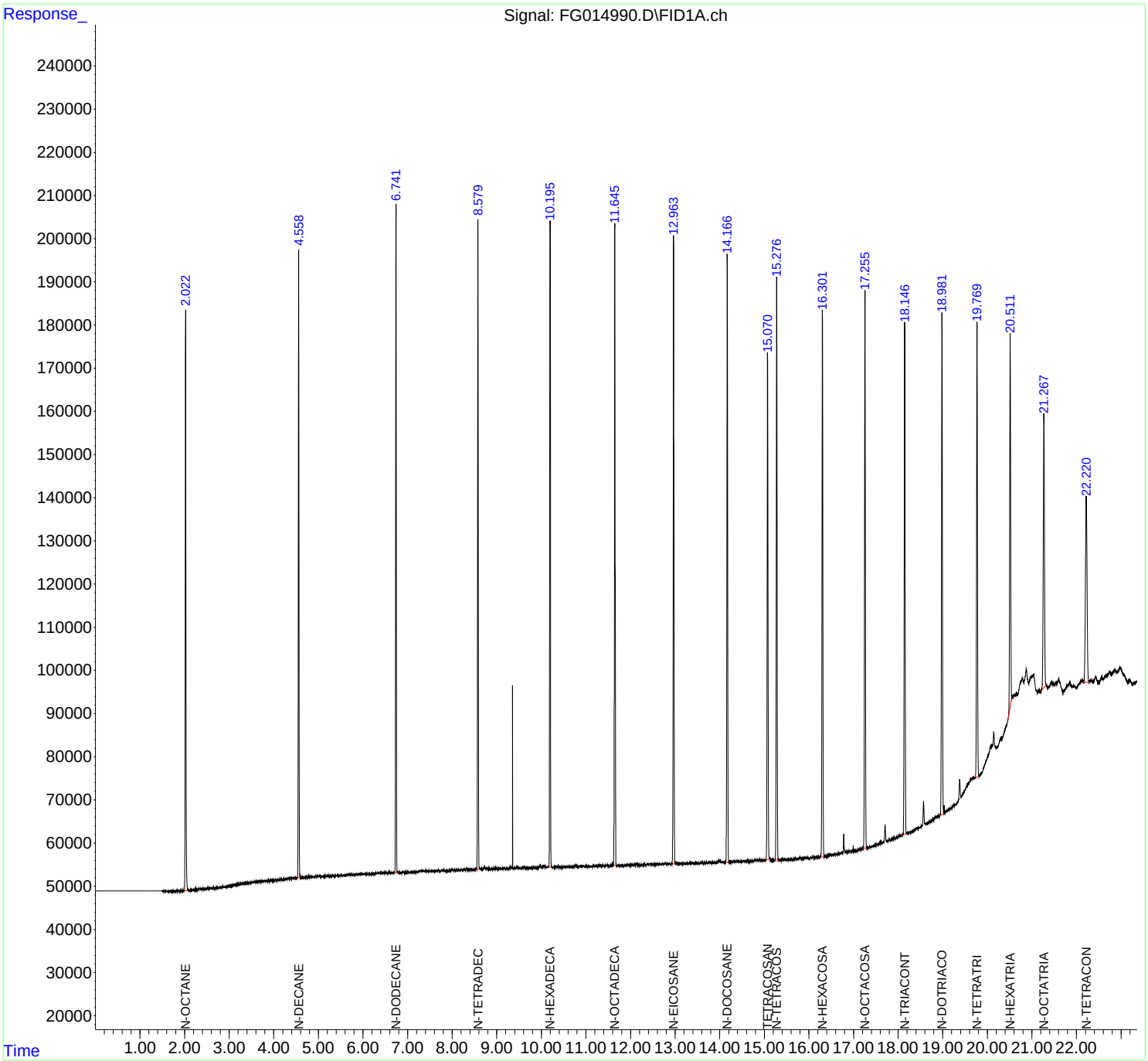
(f)=RT Delta > 1/2 Window (m)=manual int.

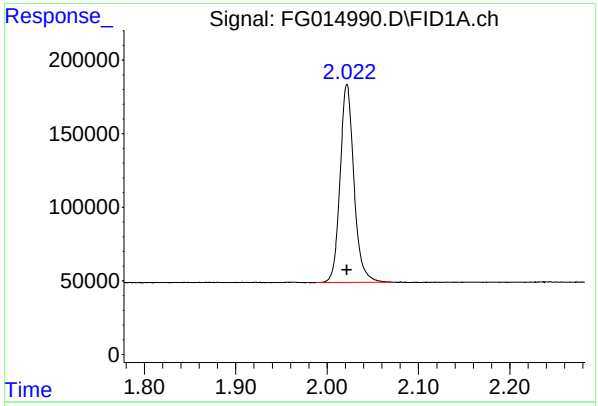
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014990.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:57
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 16:10:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:09:56 2024
Response via : Initial Calibration
Integrator: ChemStation

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

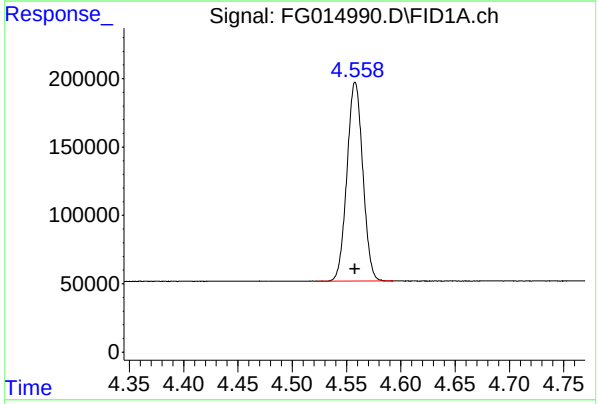




#1 N-OCTANE

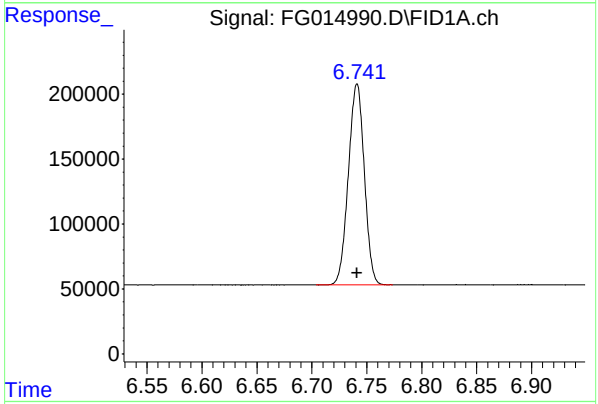
R.T.: 2.022 min
Delta R.T.: 0.000 min
Response: 1419718
Conc: 11.64 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



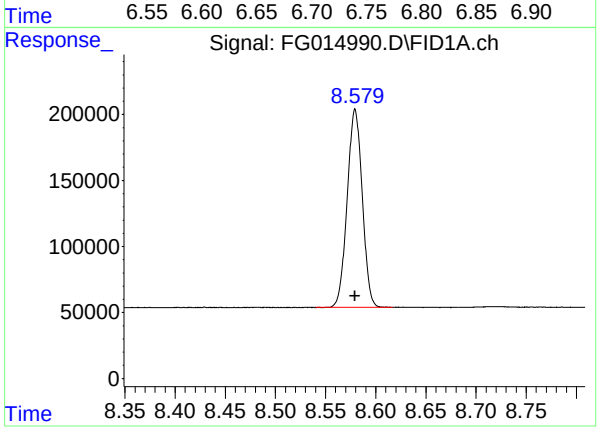
#2 N-DECANE

R.T.: 4.558 min
Delta R.T.: 0.000 min
Response: 1476623
Conc: 11.75 ug/ml



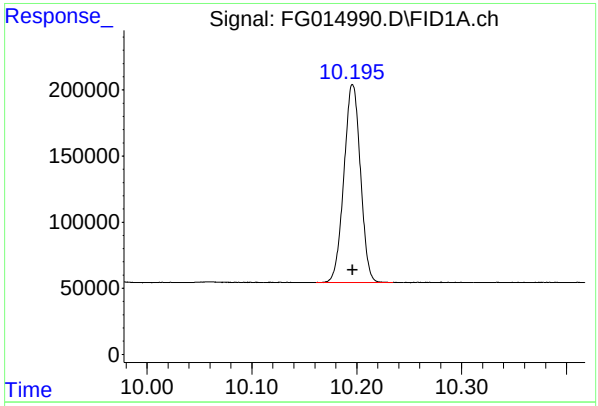
#3 N-DODECANE

R.T.: 6.741 min
Delta R.T.: 0.000 min
Response: 1565328
Conc: 11.79 ug/ml



#4 N-TETRADECANE

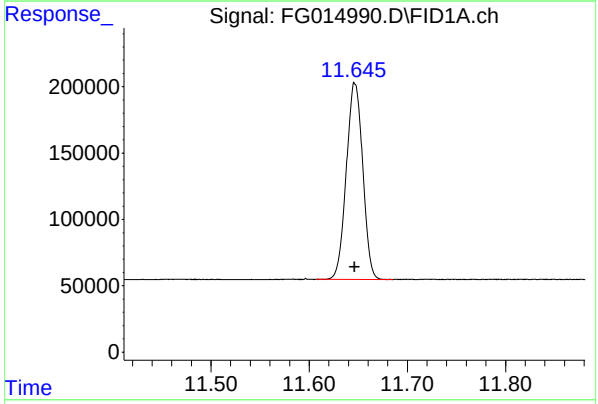
R.T.: 8.579 min
Delta R.T.: 0.000 min
Response: 1570091
Conc: 11.82 ug/ml



#5 N-HEXADECANE

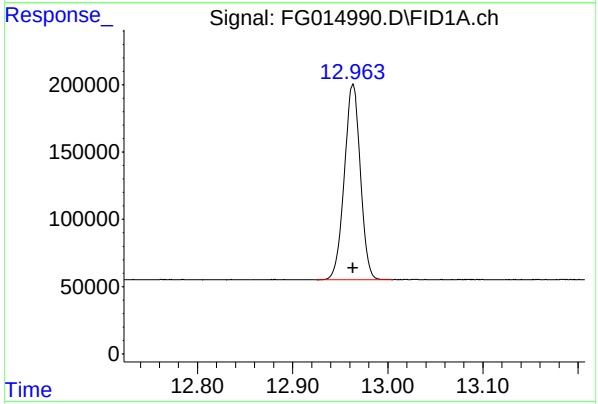
R.T.: 10.196 min
Delta R.T.: 0.000 min
Response: 1638386
Conc: 11.83 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



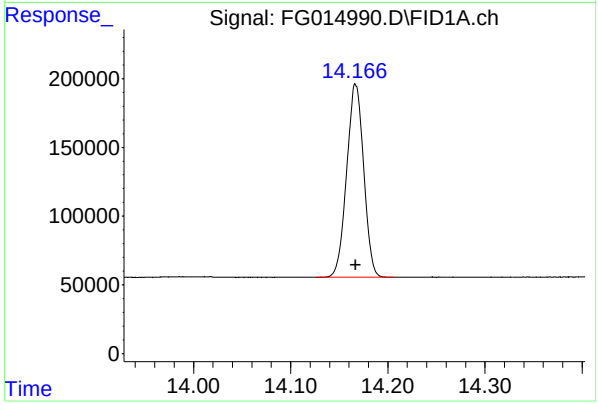
#6 N-OCTADECANE

R.T.: 11.647 min
Delta R.T.: 0.000 min
Response: 1723122
Conc: 11.81 ug/ml



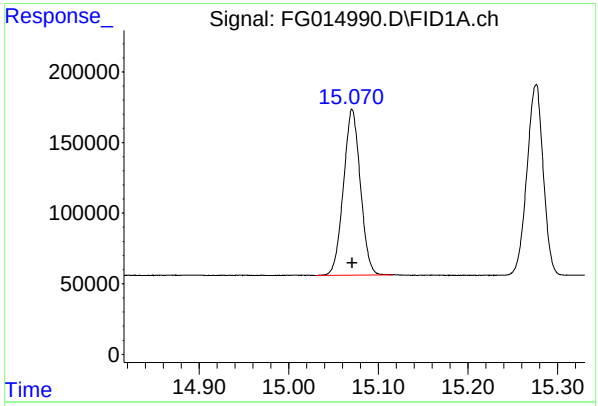
#7 N-EICOSANE

R.T.: 12.963 min
Delta R.T.: 0.000 min
Response: 1708790
Conc: 11.77 ug/ml



#8 N-DOCOSANE

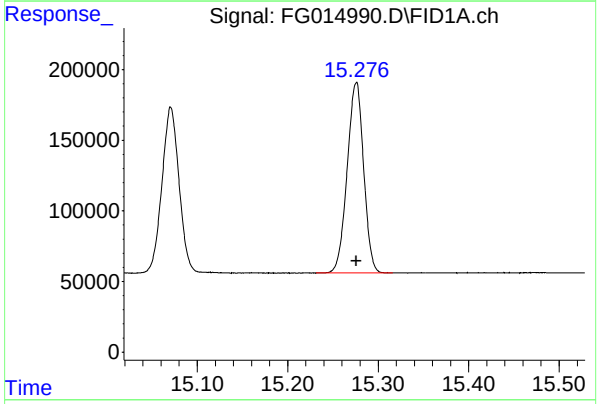
R.T.: 14.167 min
Delta R.T.: 0.000 min
Response: 1702540
Conc: 11.71 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

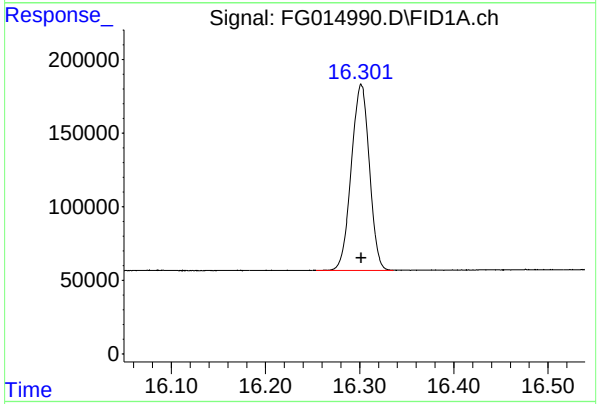
R.T.: 15.071 min
Delta R.T.: 0.000 min
Response: 1536504
Conc: 11.60 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



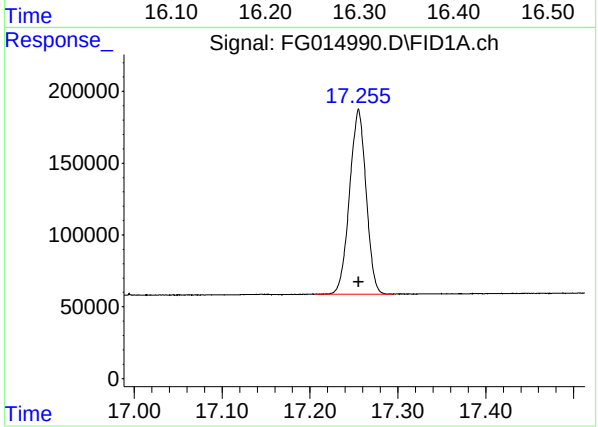
#10 N-TETRACOSANE

R.T.: 15.276 min
Delta R.T.: 0.000 min
Response: 1705871
Conc: 11.66 ug/ml



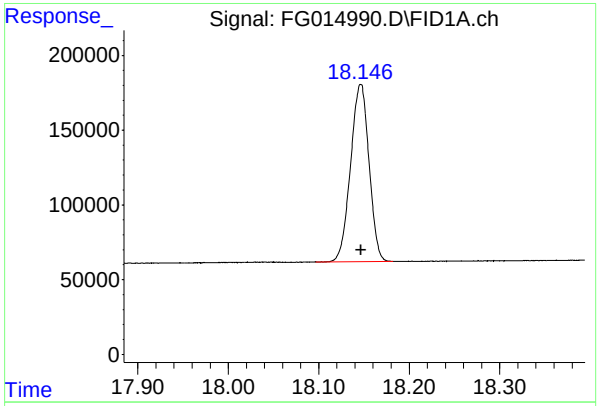
#11 N-HEXACOSANE

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 1686678
Conc: 11.63 ug/ml



#12 N-OCTACOSANE

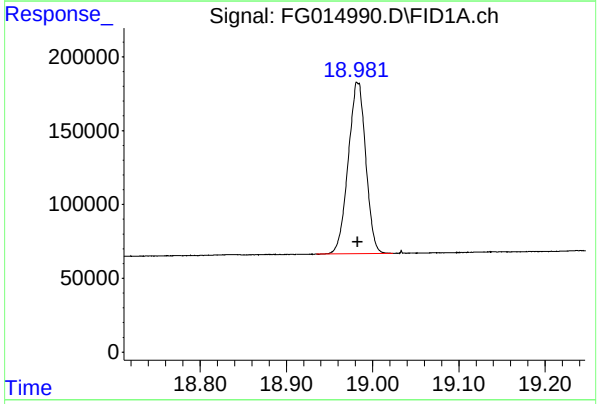
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 1680427
Conc: 11.67 ug/ml



#13 N-TRIACONTANE

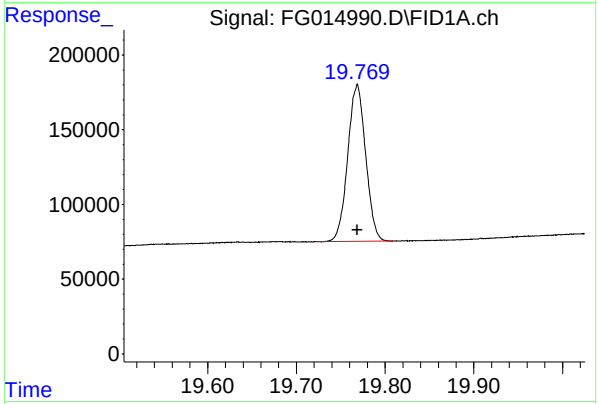
R.T.: 18.147 min
Delta R.T.: 0.000 min
Response: 1681963
Conc: 11.73 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



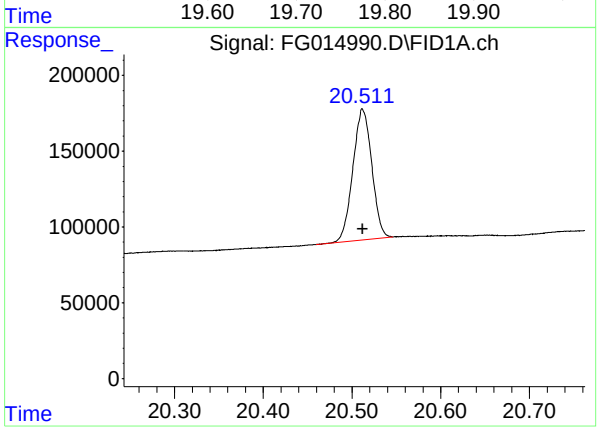
#14 N-DOTRIACONTANE

R.T.: 18.983 min
Delta R.T.: 0.000 min
Response: 1640283
Conc: 11.76 ug/ml



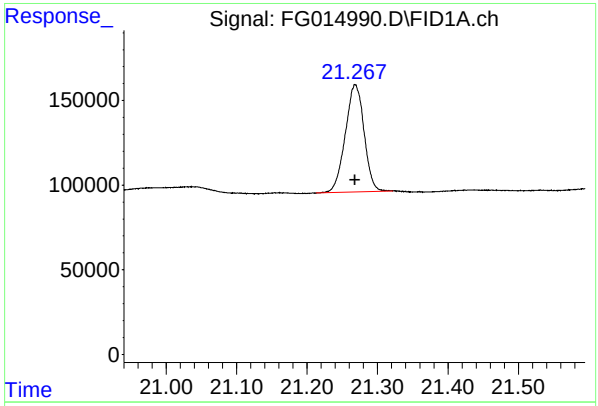
#15 N-TETRATRIACONTANE

R.T.: 19.769 min
Delta R.T.: 0.000 min
Response: 1475006
Conc: 11.72 ug/ml



#16 N-HEXATRIACONTANE

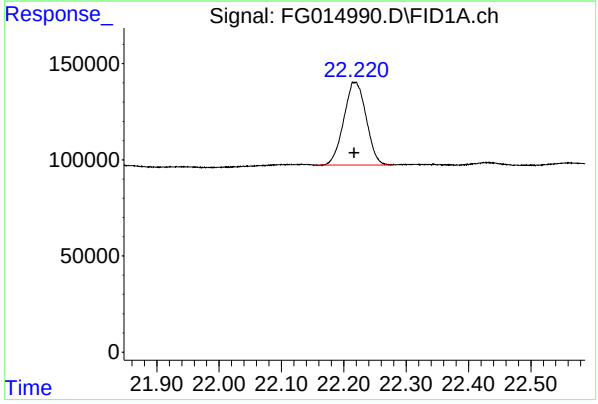
R.T.: 20.512 min
Delta R.T.: 0.000 min
Response: 1275345
Conc: 11.67 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.268 min
Delta R.T.: 0.000 min
Response: 1171872
Conc: 11.65 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.217 min
Delta R.T.: 0.000 min
Response: 1074375
Conc: 11.32 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014990.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 15:57
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.022	1.988	2.072	BB	134604	1419718	82.39%	5.119%
2	4.558	4.522	4.593	BB	145468	1476623	85.69%	5.324%
3	6.741	6.704	6.774	BB	154864	1565328	90.84%	5.644%
4	8.580	8.540	8.617	BB	150303	1570091	91.12%	5.661%
5	10.196	10.161	10.235	BB	149533	1638386	95.08%	5.908%
6	11.647	11.607	11.685	BB	147783	1723122	100.00%	6.213%
7	12.963	12.925	13.005	BB	145692	1708790	99.17%	6.162%
8	14.167	14.126	14.205	BB	139668	1702540	98.81%	6.139%
9	15.071	15.030	15.116	BB	117458	1536504	89.17%	5.540%
10	15.276	15.231	15.316	BB	134957	1705871	99.00%	6.151%
11	16.302	16.254	16.335	BB	125954	1686678	97.89%	6.082%
12	17.255	17.207	17.294	BB	129125	1680427	97.52%	6.059%
13	18.147	18.097	18.182	BB	118614	1681963	97.61%	6.065%
14	18.983	18.935	19.024	BB	115407	1640283	95.19%	5.915%
15	19.769	19.722	19.809	BB	105358	1475006	85.60%	5.319%
16	20.512	20.460	20.546	BB	86235	1275345	74.01%	4.599%
17	21.268	21.213	21.322	BB	63163	1171872	68.01%	4.226%
18	22.217	22.155	22.279	BB	42985	1074375	62.35%	3.874%
			Sum of corrected areas:			27732922		

FG121924.M Thu Dec 19 16:49:00 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014991.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 16:26
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 16:42:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:02 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...	15.070	692466	5.181 ug/ml
Target Compounds				
1)	N-OCTANE	2.019	632488	5.149 ug/ml
2)	N-DECANE	4.557	656741	5.181 ug/ml
3)	N-DODECANE	6.741	696354	5.193 ug/ml
4)	N-TETRADECANE	8.579	698622	5.205 ug/ml
5)	N-HEXADECANE	10.195	732818	5.229 ug/ml
6)	N-OCTADECANE	11.646	773424	5.238 ug/ml
7)	N-EICOSANE	12.962	768571	5.232 ug/ml
8)	N-DOCOSANE	14.165	770098	5.236 ug/ml
10)	N-TETRACOSANE	15.274	774299	5.232 ug/ml
11)	N-HEXACOSANE	16.300	769051	5.238 ug/ml
12)	N-OCTACOSANE	17.253	781203	5.335 ug/ml
13)	N-TRIACONTANE	18.143	817412	5.544 ug/ml
14)	N-DOTRIACONTANE	18.982	817799	5.667 ug/ml
15)	N-TETRATRIACONTANE	19.767	730244	5.622 ug/ml
16)	N-HEXATRIACONTANE	20.508	605130	5.419 ug/ml
17)	N-OCTATRIACONTANE	21.263	545188	5.330 ug/ml
18)	N-TETRACONTANE	22.216	497709	5.192 ug/ml

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

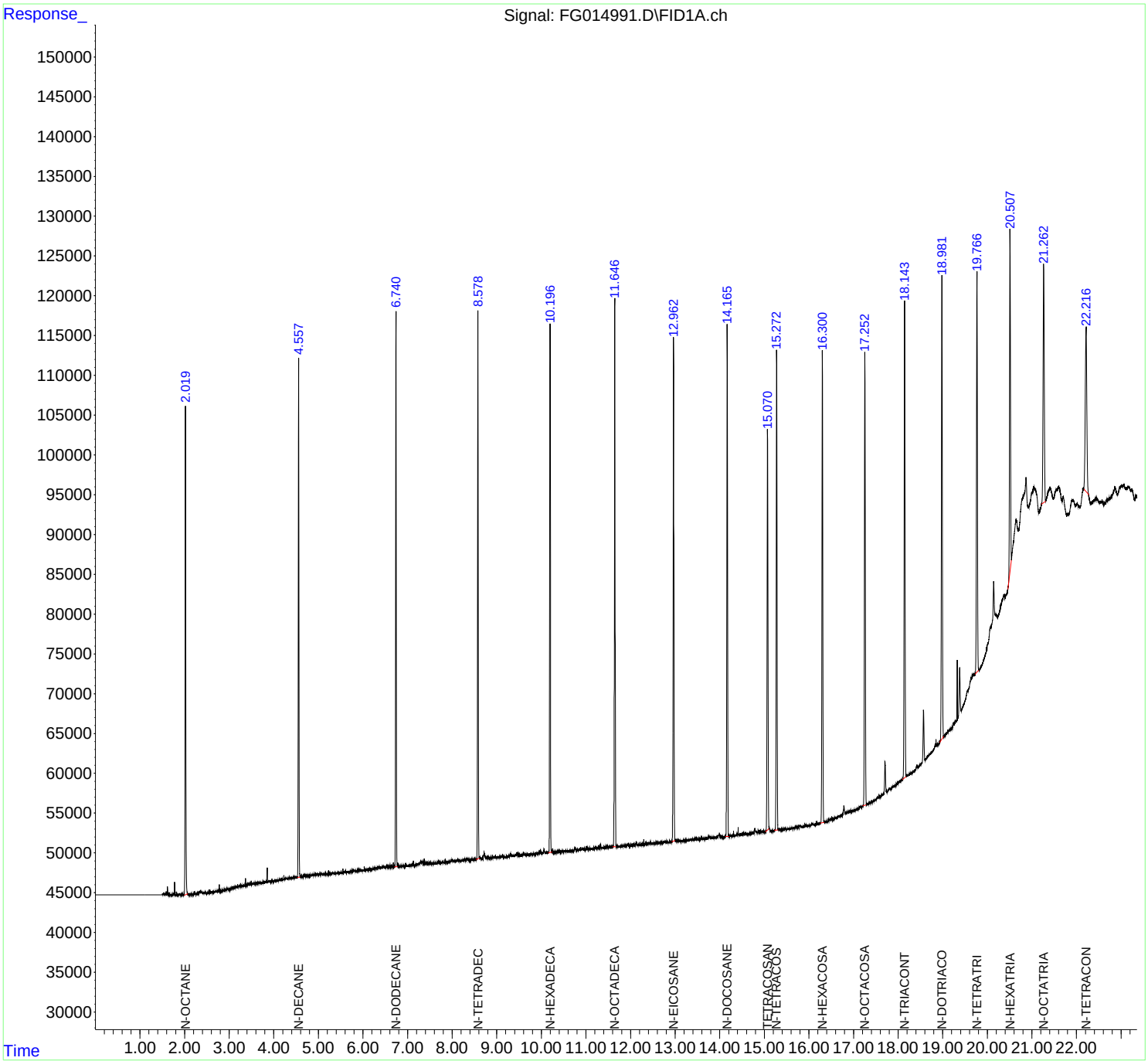
Quantitation Report (QT Reviewed)

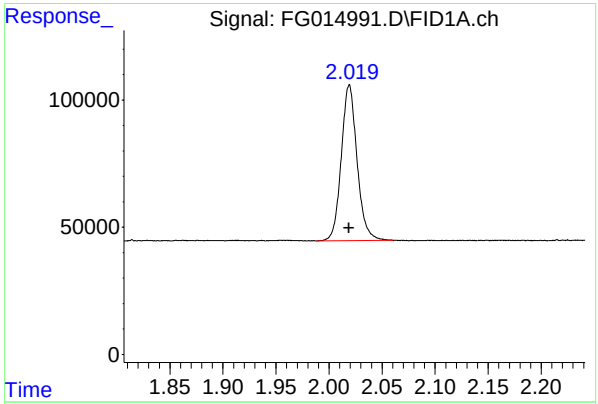
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014991.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 16:26
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Dec 19 16:42:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

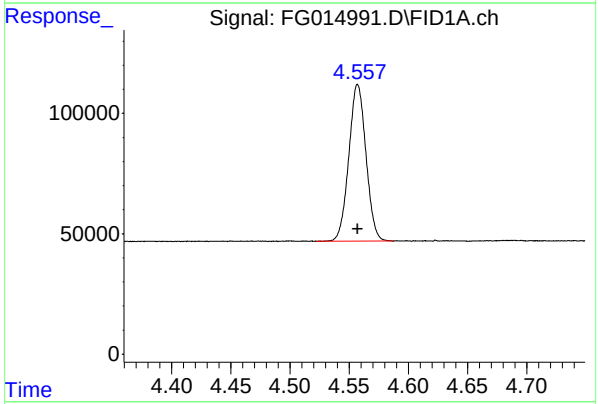




#1 N-OCTANE

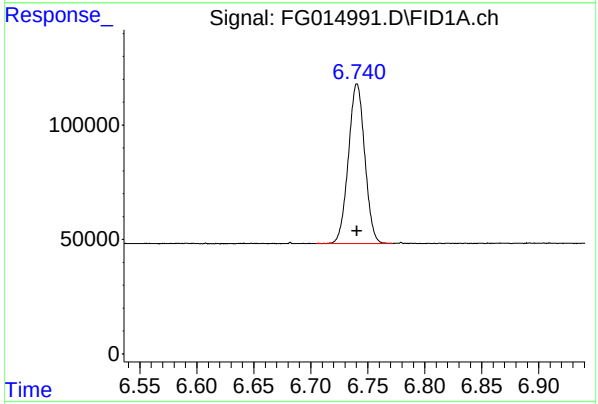
R.T.: 2.019 min
Delta R.T.: 0.000 min
Response: 632488
Conc: 5.15 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



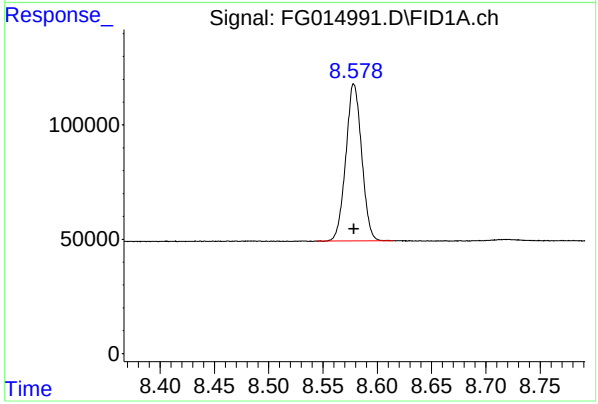
#2 N-DECANE

R.T.: 4.557 min
Delta R.T.: 0.000 min
Response: 656741
Conc: 5.18 ug/ml



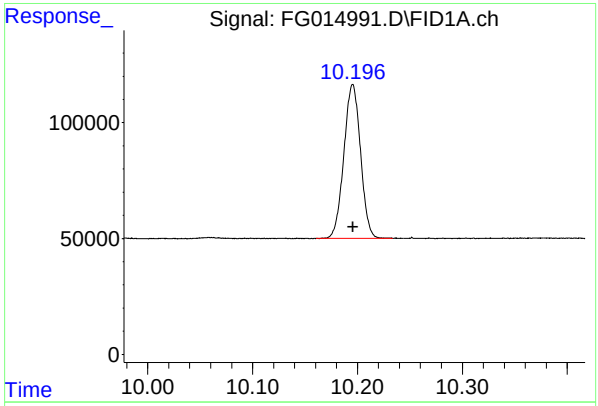
#3 N-DODECANE

R.T.: 6.741 min
Delta R.T.: 0.000 min
Response: 696354
Conc: 5.19 ug/ml



#4 N-TETRADECANE

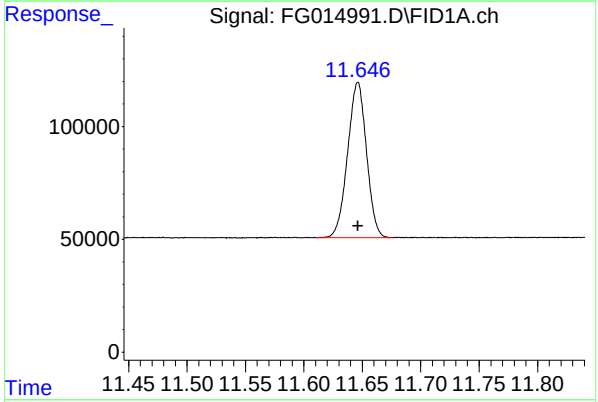
R.T.: 8.579 min
Delta R.T.: 0.000 min
Response: 698622
Conc: 5.21 ug/ml



#5 N-HEXADECANE

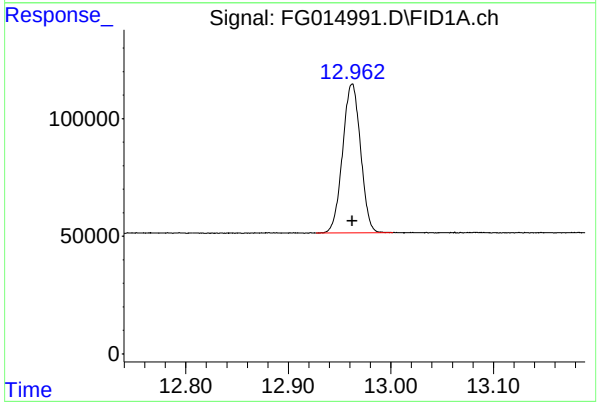
R.T.: 10.195 min
Delta R.T.: 0.000 min
Response: 732818
Conc: 5.23 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



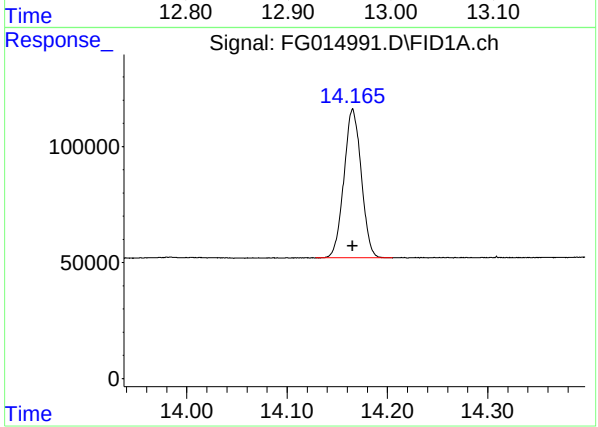
#6 N-OCTADECANE

R.T.: 11.646 min
Delta R.T.: 0.000 min
Response: 773424
Conc: 5.24 ug/ml



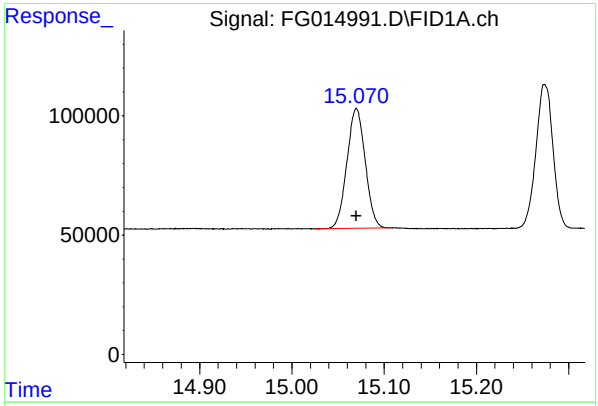
#7 N-EICOSANE

R.T.: 12.962 min
Delta R.T.: 0.000 min
Response: 768571
Conc: 5.23 ug/ml



#8 N-DOCOSANE

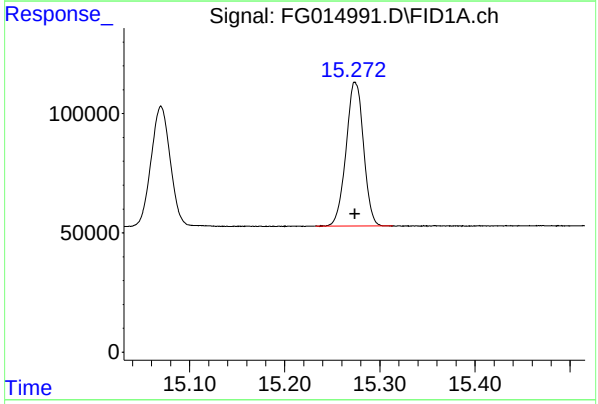
R.T.: 14.165 min
Delta R.T.: 0.000 min
Response: 770098
Conc: 5.24 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

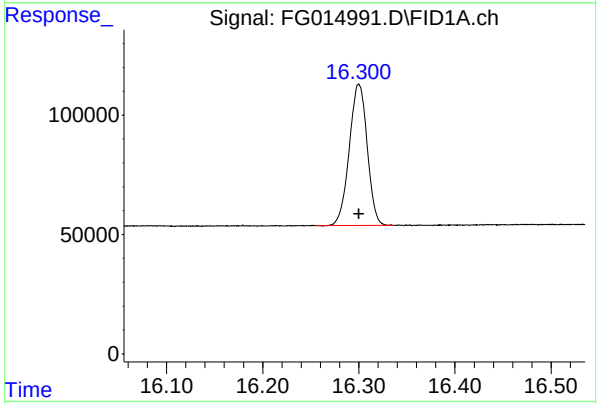
R.T.: 15.070 min
Delta R.T.: 0.000 min
Response: 692466
Conc: 5.18 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



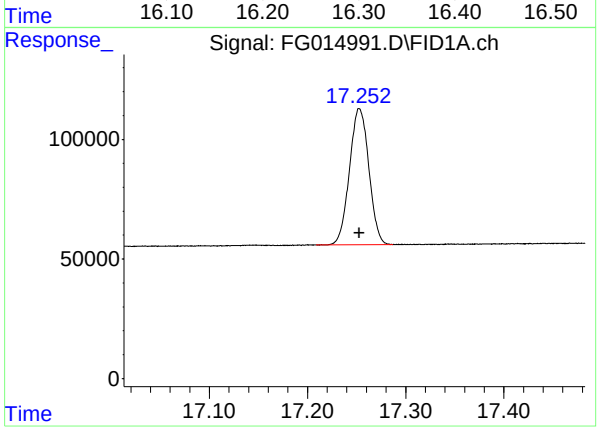
#10 N-TETRACOSANE

R.T.: 15.274 min
Delta R.T.: 0.000 min
Response: 774299
Conc: 5.23 ug/ml



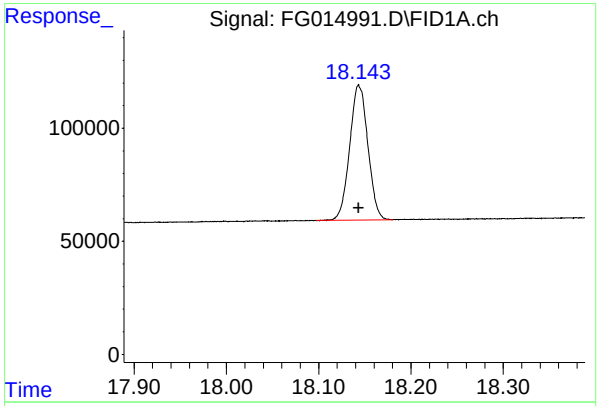
#11 N-HEXACOSANE

R.T.: 16.300 min
Delta R.T.: 0.000 min
Response: 769051
Conc: 5.24 ug/ml



#12 N-OCTACOSANE

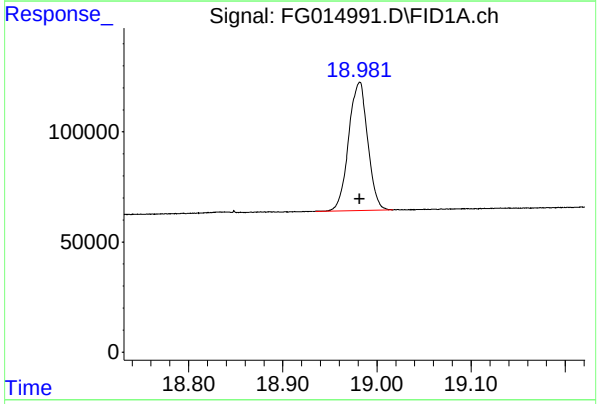
R.T.: 17.253 min
Delta R.T.: 0.000 min
Response: 781203
Conc: 5.33 ug/ml



#13 N-TRIACONTANE

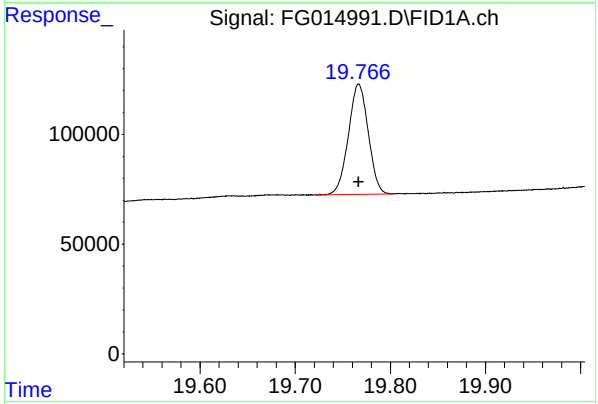
R.T.: 18.143 min
Delta R.T.: 0.000 min
Response: 817412
Conc: 5.54 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



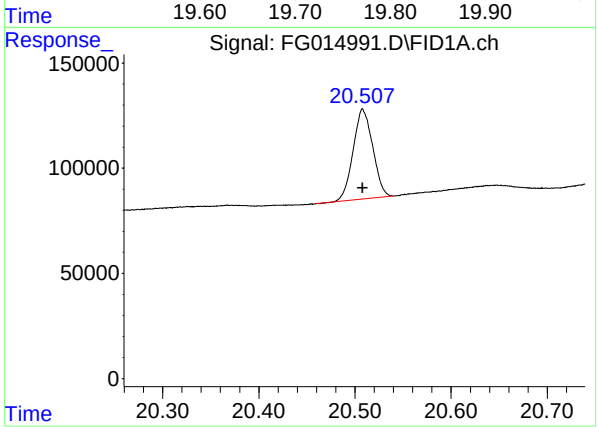
#14 N-DOTRIACONTANE

R.T.: 18.982 min
Delta R.T.: 0.000 min
Response: 817799
Conc: 5.67 ug/ml



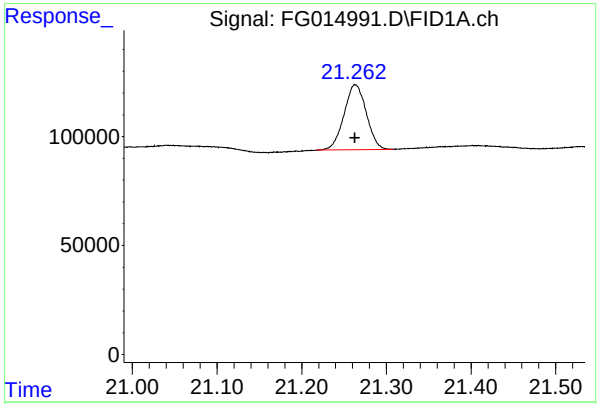
#15 N-TETRATRIACONTANE

R.T.: 19.767 min
Delta R.T.: 0.000 min
Response: 730244
Conc: 5.62 ug/ml



#16 N-HEXATRIACONTANE

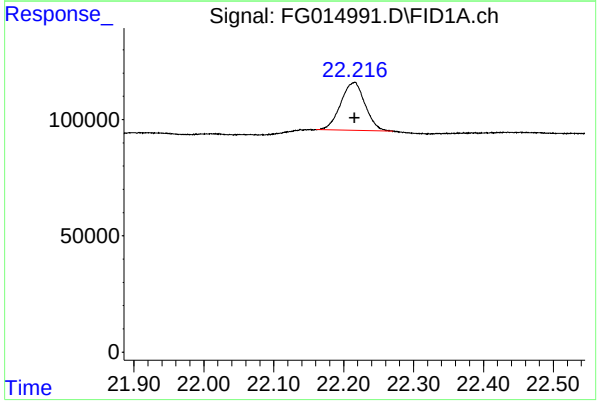
R.T.: 20.508 min
Delta R.T.: 0.000 min
Response: 605130
Conc: 5.42 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.263 min
Delta R.T.: 0.000 mi
Response: 545188
Conc: 5.33 ug/m

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.216 min
Delta R.T.: 0.000 min
Response: 497709
Conc: 5.19 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014991.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 16:26
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.019	1.988	2.060	BB	61505	632488	77.34%	4.957%
2	4.557	4.522	4.587	BB	65137	656741	80.31%	5.147%
3	6.741	6.705	6.772	BB	69801	696354	85.15%	5.457%
4	8.579	8.544	8.614	BB	68584	698622	85.43%	5.475%
5	10.196	10.160	10.234	BB	66395	732818	89.61%	5.743%
6	11.646	11.610	11.676	BB	68852	773424	94.57%	6.061%
7	12.962	12.927	13.002	BB	63152	768571	93.98%	6.023%
8	14.165	14.129	14.205	BB	64317	770098	94.17%	6.035%
9	15.070	15.026	15.110	BB	50250	692466	84.67%	5.427%
10	15.274	15.233	15.314	BB	60256	774299	94.68%	6.068%
11	16.300	16.255	16.335	BB	59322	769051	94.04%	6.027%
12	17.253	17.209	17.287	BB	56915	781203	95.53%	6.122%
13	18.143	18.097	18.180	BB	59756	817412	99.95%	6.406%
14	18.982	18.935	19.017	BB	58299	817799	100.00%	6.409%
15	19.767	19.722	19.803	BB	50253	730244	89.29%	5.723%
16	20.508	20.460	20.540	BB	42920	605130	73.99%	4.743%
17	21.263	21.217	21.308	BB	29748	545188	66.67%	4.273%
18	22.216	22.160	22.270	BB	20757	497709	60.86%	3.901%
			Sum of corrected areas:			12759618		

FG121924.M Thu Dec 19 16:49:14 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014992.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 16:54
Operator : YP\AJ
Sample : FG121924ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
FG121924ICV

Integration File: autoint1.e
Quant Time: Dec 19 17:20:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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...	15.075	6464996	48.371 ug/ml
	Target Compounds			
1)	N-OCTANE	2.018	5755572	46.853 ug/ml
2)	N-DECANE	4.559	5917608	46.681 ug/ml
3)	N-DODECANE	6.744	6282846	46.856 ug/ml
4)	N-TETRADECANE	8.583	6311988	47.027 ug/ml
5)	N-HEXADECANE	10.200	6619963	47.238 ug/ml
6)	N-OCTADECANE	11.650	7016259	47.515 ug/ml
7)	N-EICOSANE	12.966	7029328	47.850 ug/ml
8)	N-DOCOSANE	14.171	7079115	48.128 ug/ml
10)	N-TETRACOSANE	15.280	7163133	48.400 ug/ml
11)	N-HEXACOSANE	16.306	7136470	48.606 ug/ml
12)	N-OCTACOSANE	17.259	7072414	48.296 ug/ml
13)	N-TRIACONTANE	18.151	7021526	47.619 ug/ml
14)	N-DOTRIACONTANE	18.987	6824550	47.292 ug/ml
15)	N-TETRATRIACONTANE	19.772	6171709	47.512 ug/ml
16)	N-HEXATRIACONTANE	20.515	5286916	47.345 ug/ml
17)	N-OCTATRIACONTANE	21.271	4860518	47.523 ug/ml
18)	N-TETRACONTANE	22.221	4735319	49.396 ug/ml

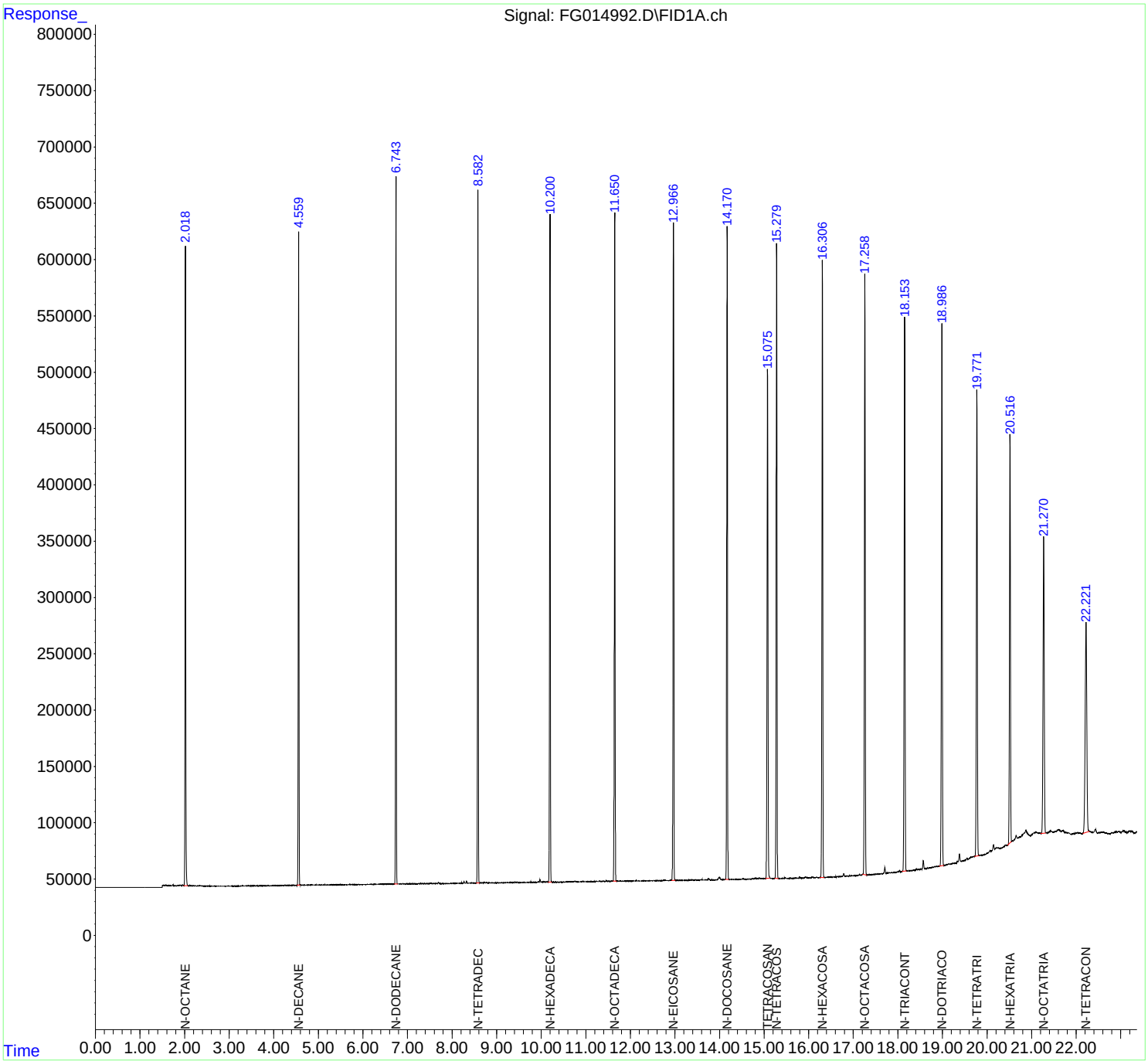
(f)=RT Delta > 1/2 Window (m)=manual int.

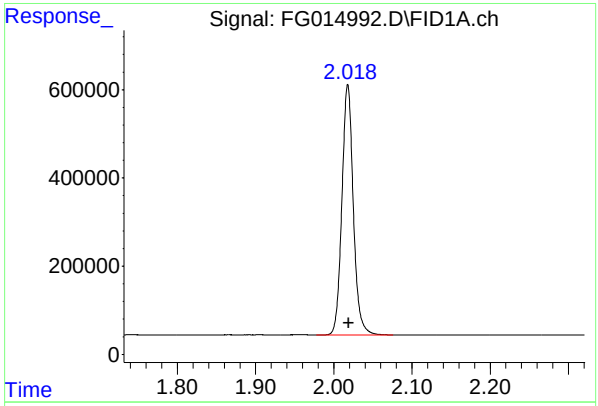
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014992.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 16:54
Operator : YP\AJ
Sample : FG121924ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
FG121924ICV

Integration File: autoint1.e
Quant Time: Dec 19 17:20:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

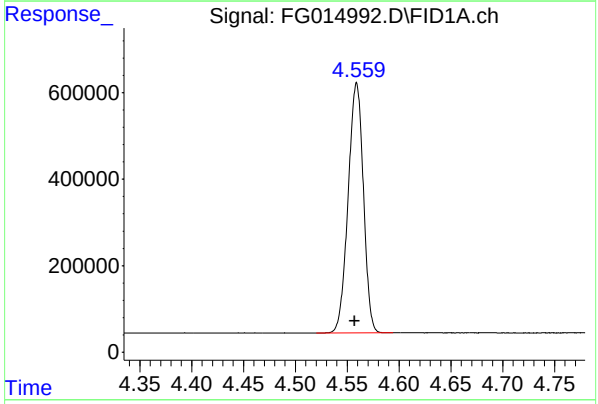




#1 N-OCTANE

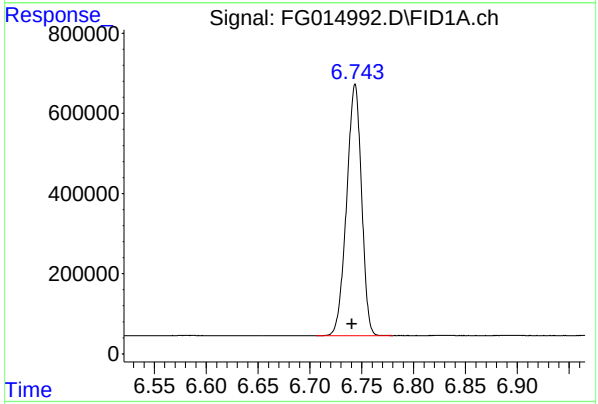
R.T.: 2.018 min
Delta R.T.: -0.001 min
Response: 5755572
Conc: 46.85 ug/ml

Instrument :
FID_G
ClientSampleId :
FG121924ICV



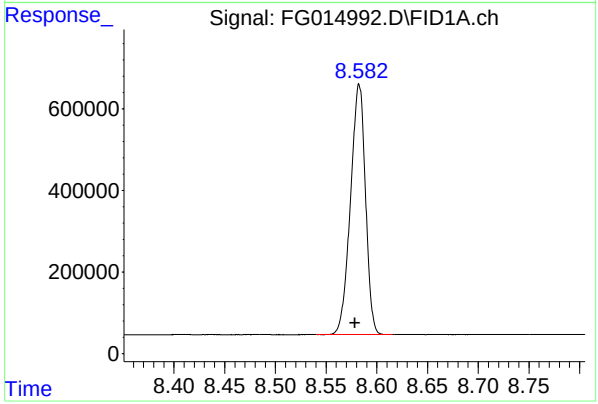
#2 N-DECANE

R.T.: 4.559 min
Delta R.T.: 0.002 min
Response: 5917608
Conc: 46.68 ug/ml



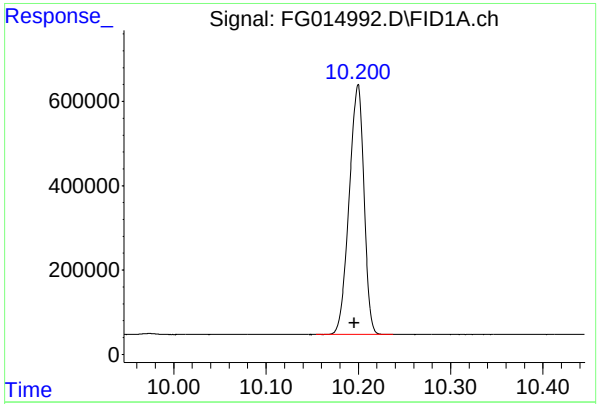
#3 N-DODECANE

R.T.: 6.744 min
Delta R.T.: 0.003 min
Response: 6282846
Conc: 46.86 ug/ml



#4 N-TETRADECANE

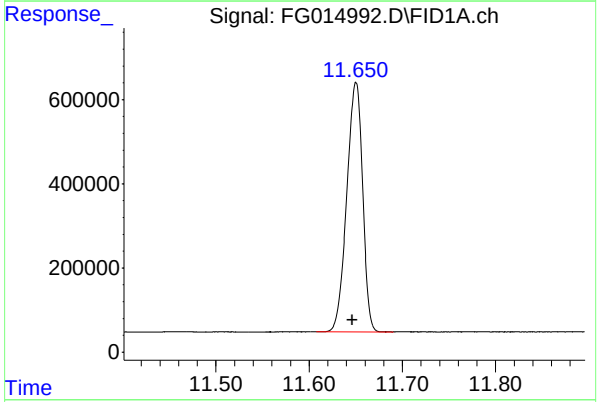
R.T.: 8.583 min
Delta R.T.: 0.004 min
Response: 6311988
Conc: 47.03 ug/ml



#5 N-HEXADECANE

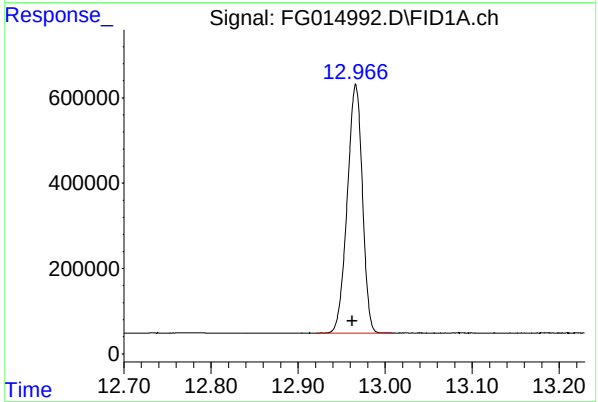
R.T.: 10.200 min
Delta R.T.: 0.004 min
Response: 6619963
Conc: 47.24 ug/ml

Instrument :
FID_G
ClientSampleId :
FG121924ICV



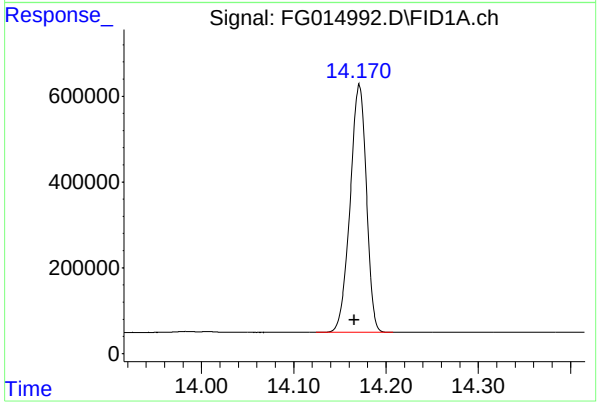
#6 N-OCTADECANE

R.T.: 11.650 min
Delta R.T.: 0.004 min
Response: 7016259
Conc: 47.52 ug/ml



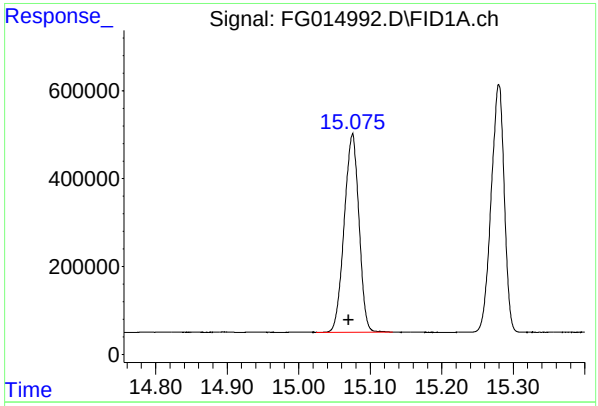
#7 N-EICOSANE

R.T.: 12.966 min
Delta R.T.: 0.004 min
Response: 7029328
Conc: 47.85 ug/ml



#8 N-DOCOSANE

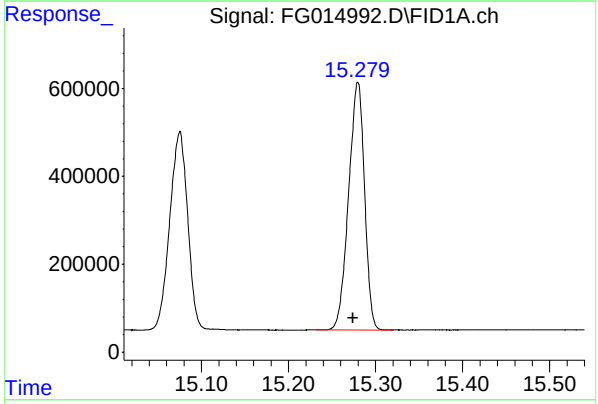
R.T.: 14.171 min
Delta R.T.: 0.006 min
Response: 7079115
Conc: 48.13 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

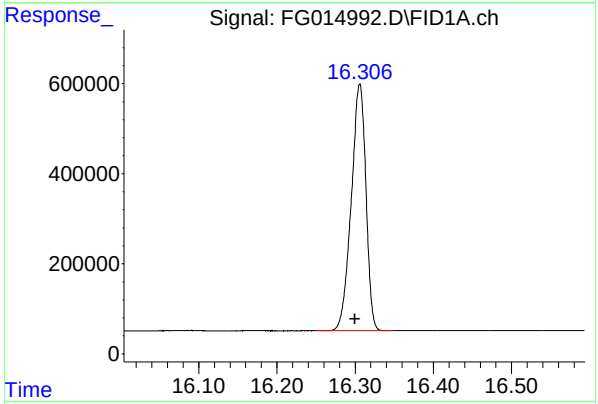
R.T.: 15.075 min
Delta R.T.: 0.005 min
Response: 6464996
Conc: 48.37 ug/ml

Instrument :
FID_G
ClientSampleId :
FG121924ICV



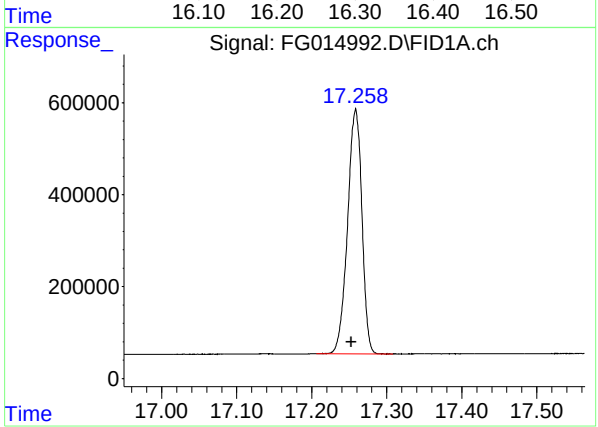
#10 N-TETRACOSANE

R.T.: 15.280 min
Delta R.T.: 0.006 min
Response: 7163133
Conc: 48.40 ug/ml



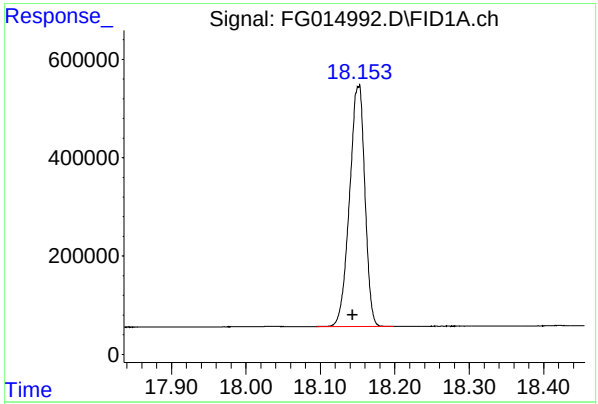
#11 N-HEXACOSANE

R.T.: 16.306 min
Delta R.T.: 0.006 min
Response: 7136470
Conc: 48.61 ug/ml



#12 N-OCTACOSANE

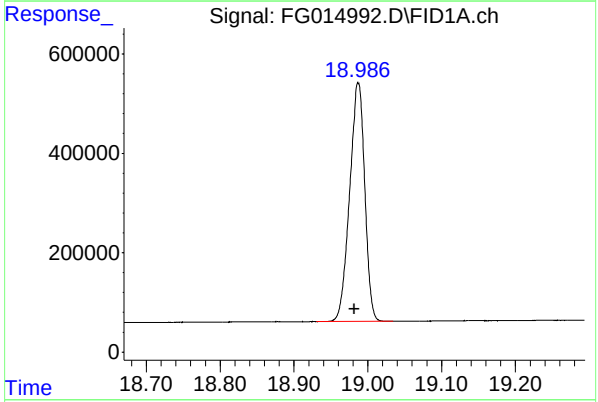
R.T.: 17.259 min
Delta R.T.: 0.006 min
Response: 7072414
Conc: 48.30 ug/ml



#13 N-TRIACONTANE

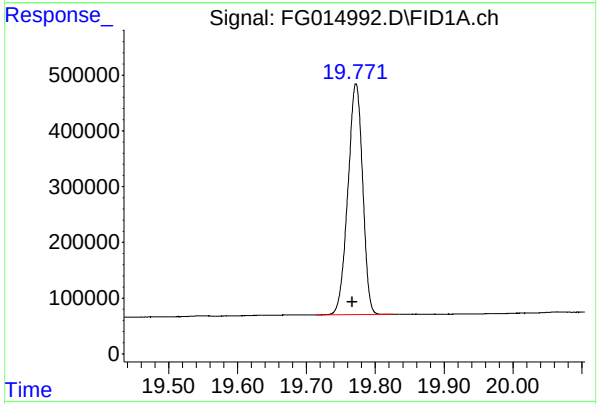
R.T.: 18.151 min
Delta R.T.: 0.008 min
Response: 7021526
Conc: 47.62 ug/ml

Instrument :
FID_G
ClientSampleId :
FG121924ICV



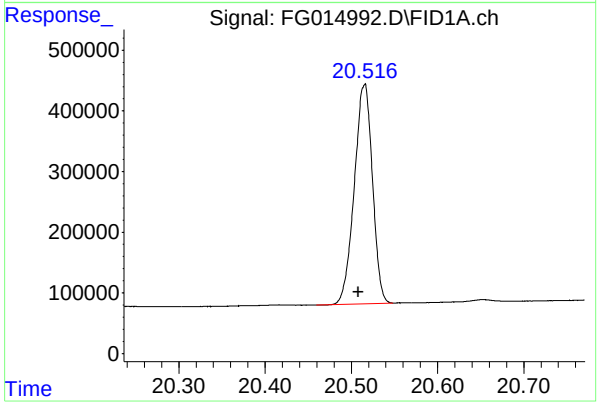
#14 N-DOTRIACONTANE

R.T.: 18.987 min
Delta R.T.: 0.005 min
Response: 6824550
Conc: 47.29 ug/ml



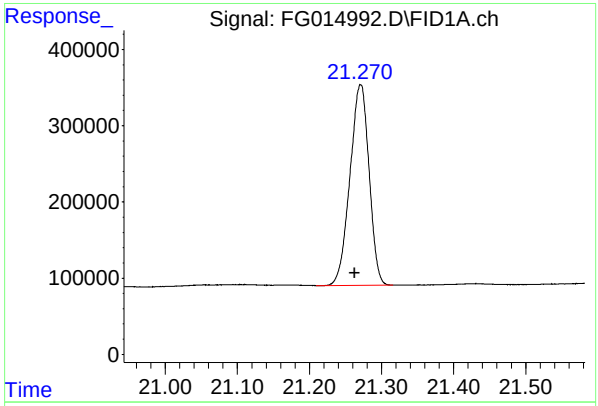
#15 N-TETRATRIACONTANE

R.T.: 19.772 min
Delta R.T.: 0.005 min
Response: 6171709
Conc: 47.51 ug/ml



#16 N-HEXATRIACONTANE

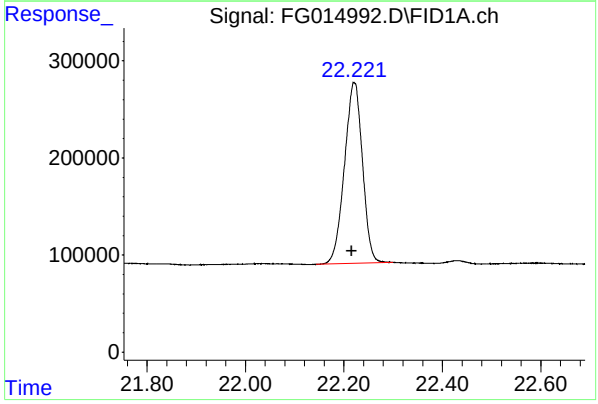
R.T.: 20.515 min
Delta R.T.: 0.007 min
Response: 5286916
Conc: 47.34 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.271 min
Delta R.T.: 0.008 min
Response: 4860518
Conc: 47.52 ug/ml

Instrument :
FID_G
ClientSampleId :
FG121924ICV



#18 N-TETRACONTANE

R.T.: 22.221 min
Delta R.T.: 0.005 min
Response: 4735319
Conc: 49.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG121924\
Data File : FG014992.D
Signal(s) : FID1A.ch
Acq On : 19 Dec 2024 16:54
Sample : FG121924ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.018	1.978	2.076	BB	568092	5755572	80.35%	5.016%
2	4.559	4.520	4.594	BB	579330	5917608	82.61%	5.157%
3	6.744	6.706	6.780	BB	627733	6282846	87.71%	5.475%
4	8.583	8.540	8.616	BB	613951	6311988	88.12%	5.501%
5	10.200	10.154	10.238	BB	593621	6619963	92.42%	5.769%
6	11.650	11.608	11.690	BB	593543	7016259	97.95%	6.114%
7	12.966	12.921	13.009	BB	582240	7029328	98.13%	6.126%
8	14.171	14.124	14.208	BB	578675	7079115	98.83%	6.169%
9	15.075	15.024	15.132	BB	450028	6464996	90.25%	5.634%
10	15.280	15.232	15.320	BB	563027	7163133	100.00%	6.242%
11	16.306	16.250	16.348	BB	547558	7136470	99.63%	6.219%
12	17.259	17.206	17.308	BB	531486	7072414	98.73%	6.163%
13	18.152	18.094	18.198	BB	486479	7021526	98.02%	6.119%
14	18.987	18.930	19.034	BB	479189	6824550	95.27%	5.947%
15	19.772	19.714	19.826	BB	413950	6171709	86.16%	5.378%
16	20.515	20.459	20.548	BB	361810	5286916	73.81%	4.607%
17	21.271	21.209	21.316	BB	263117	4860518	67.85%	4.236%
18	22.221	22.143	22.300	BBA	186621	4735319	66.11%	4.127%

Sum of corrected areas: 114750229

FG121924.M Thu Dec 19 17:21:45 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PARS02

ProjectID: Con Edison Non-MGP - East River 453648.60024.0

Lab Code: CHEM Case No.: P5361 SAS No.: P5361 SDG No.: P5361

DataFile: FG015015.D Analyst Name: YP\AJ Analyst Date: 12-23-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	101083534	118922	133673	11.035

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015015.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 11:02
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File: autoint1.e
Quant Time: Dec 24 00:26:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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...	15.058	6168067	46.150 ug/mlm
	Target Compounds			
1)	N-OCTANE	2.014	5782919	47.075 ug/ml
2)	N-DECANE	4.552	5994973	47.291 ug/ml
3)	N-DODECANE	6.735	6392456	47.673 ug/ml
4)	N-TETRADECANE	8.572	6443794	48.009 ug/ml
5)	N-HEXADECANE	10.188	6718268	47.939 ug/ml
6)	N-OCTADECANE	11.638	7021634	47.552 ug/ml
7)	N-EICOSANE	12.953	6908728	47.029 ug/ml
8)	N-DOCOSANE	14.157	6825399	46.403 ug/ml
10)	N-TETRACOSANE	15.264	6786928	45.858 ug/ml
11)	N-HEXACOSANE	16.288	6685365	45.534 ug/ml
12)	N-OCTACOSANE	17.241	6580705	44.938 ug/ml
13)	N-TRIACONTANE	18.132	6516073	44.191 ug/ml
14)	N-DOTRIACONTANE	18.966	6236967	43.220 ug/ml
15)	N-TETRATRIACONTANE	19.750	5329448	41.028 ug/ml
16)	N-HEXATRIACONTANE	20.492	4209112	37.693 ug/ml
17)	N-OCTATRIACONTANE	21.242	3529727	34.511 ug/ml
18)	N-TETRACONTANE	22.185	3121038	32.557 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015015.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 11:02
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

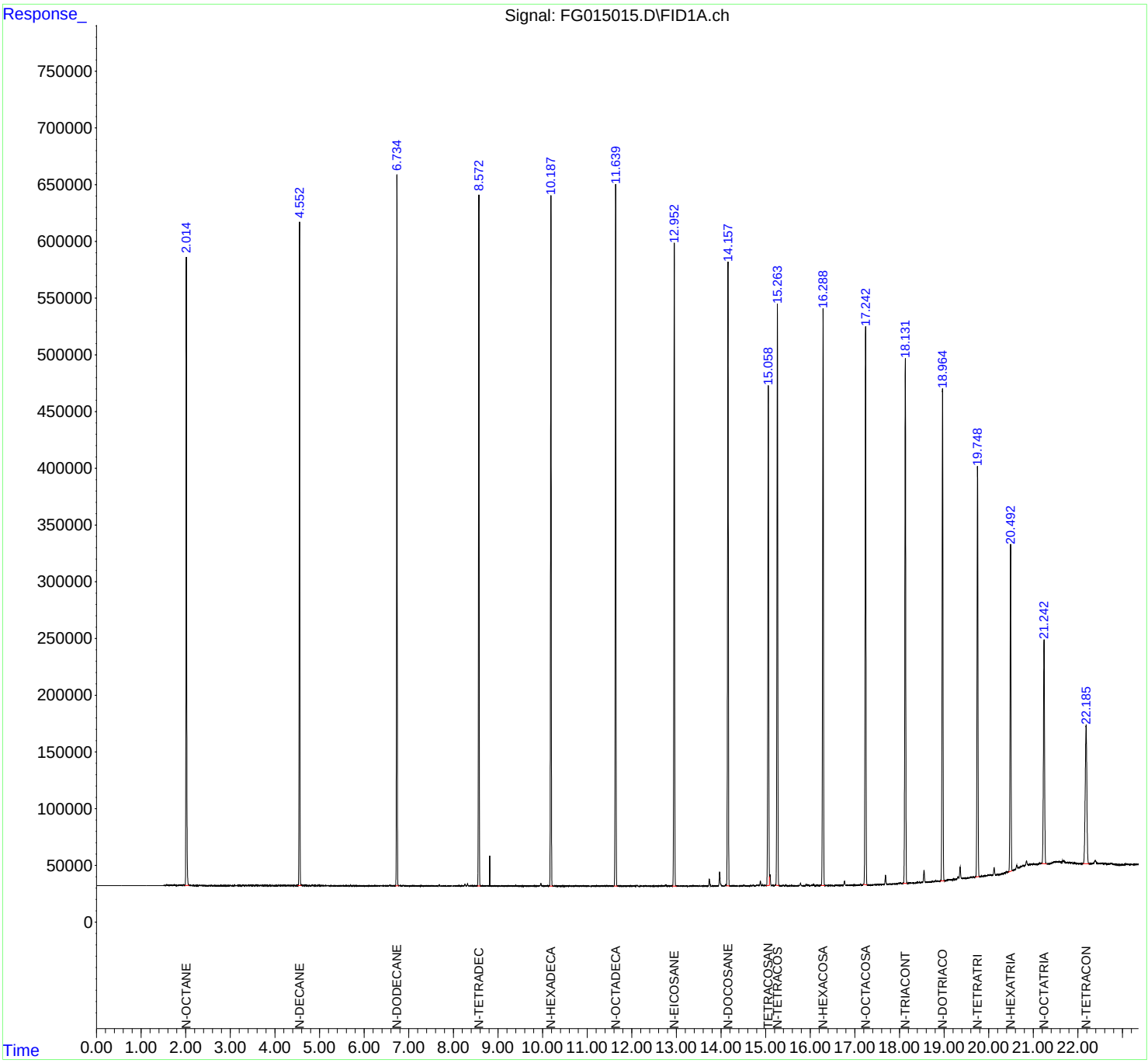
Integration File: autoint1.e
Quant Time: Dec 24 00:26:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

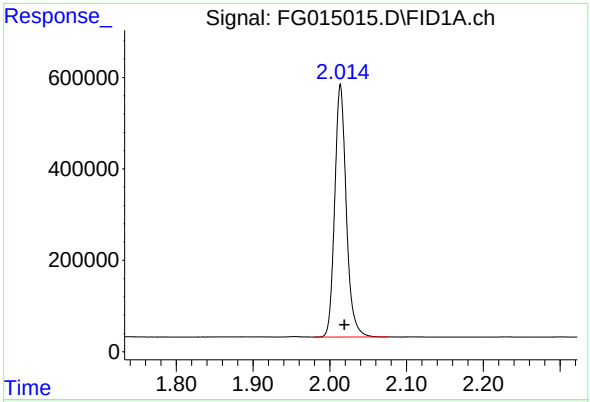
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024





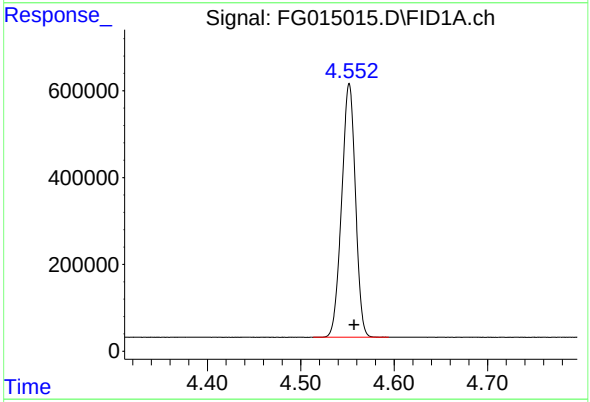
#1 N-OCTANE

R.T.: 2.014 min
Delta R.T.: -0.005 min
Response: 5782919
Conc: 47.08 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

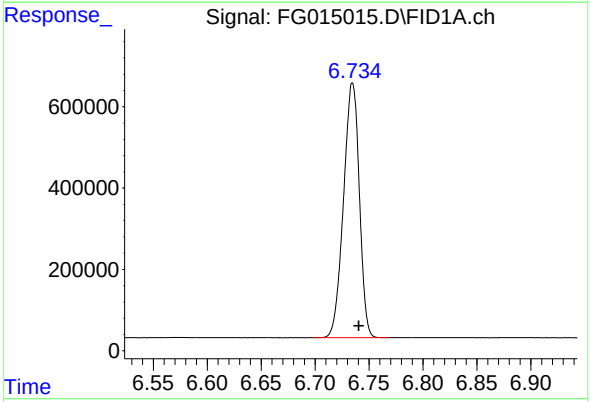
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



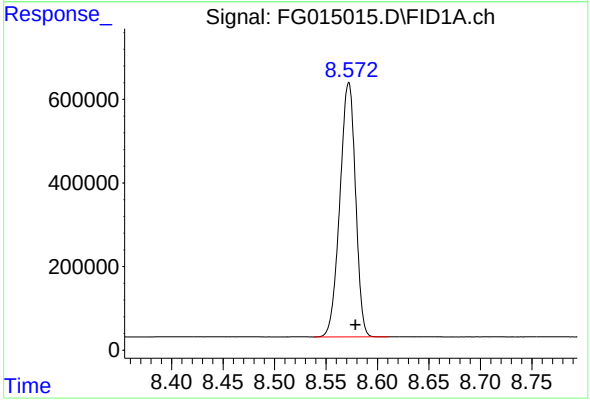
#2 N-DECANE

R.T.: 4.552 min
Delta R.T.: -0.005 min
Response: 5994973
Conc: 47.29 ug/ml



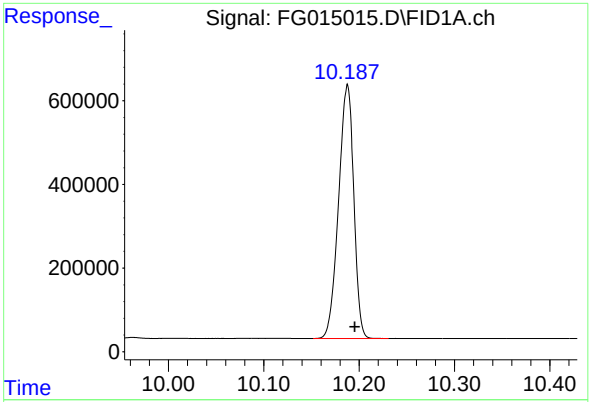
#3 N-DODECANE

R.T.: 6.735 min
Delta R.T.: -0.006 min
Response: 6392456
Conc: 47.67 ug/ml



#4 N-TETRADECANE

R.T.: 8.572 min
Delta R.T.: -0.006 min
Response: 6443794
Conc: 48.01 ug/ml



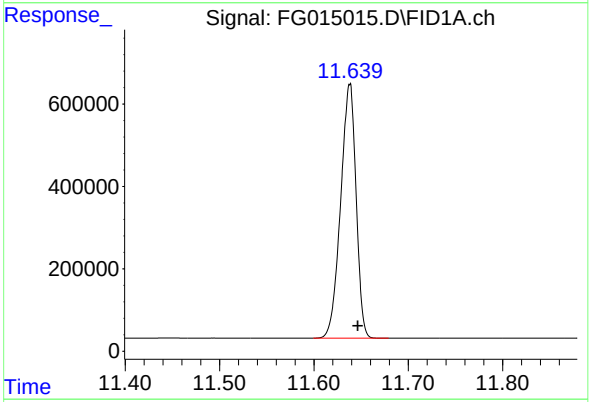
#5 N-HEXADECANE

R.T.: 10.188 min
Delta R.T.: -0.008 min
Response: 6718268
Conc: 47.94 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

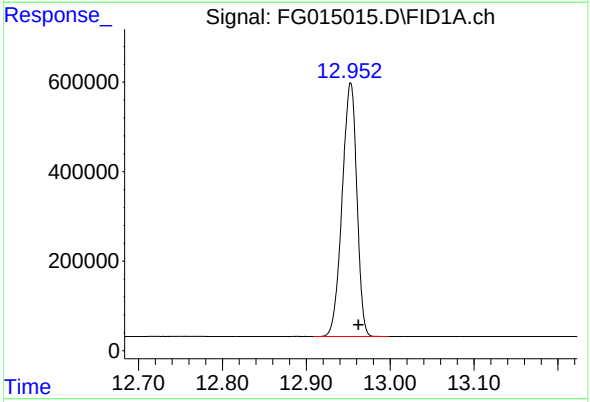
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



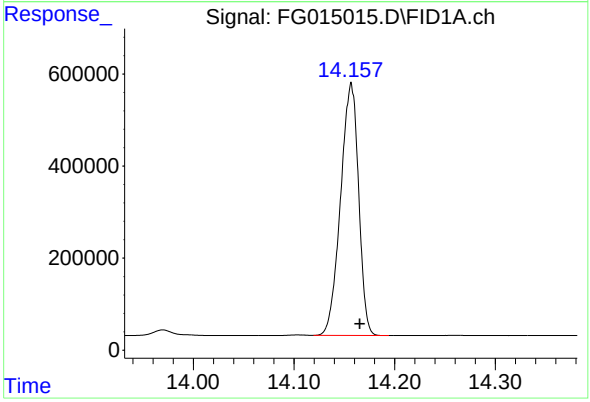
#6 N-OCTADECANE

R.T.: 11.638 min
Delta R.T.: -0.008 min
Response: 7021634
Conc: 47.55 ug/ml



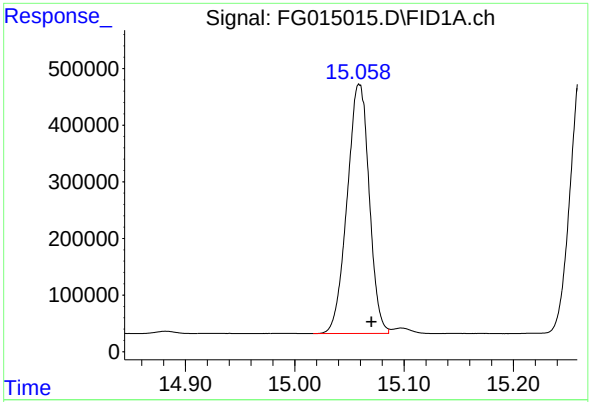
#7 N-EICOSANE

R.T.: 12.953 min
Delta R.T.: -0.009 min
Response: 6908728
Conc: 47.03 ug/ml



#8 N-DOCOSANE

R.T.: 14.157 min
Delta R.T.: -0.008 min
Response: 6825399
Conc: 46.40 ug/ml



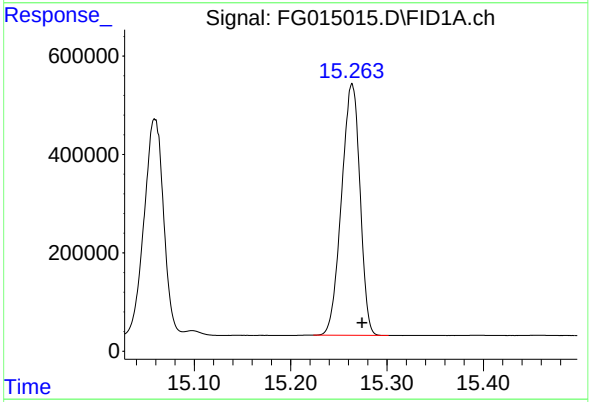
#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.058 min
Delta R.T.: -0.012 min
Response: 6168067
Conc: 46.15 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

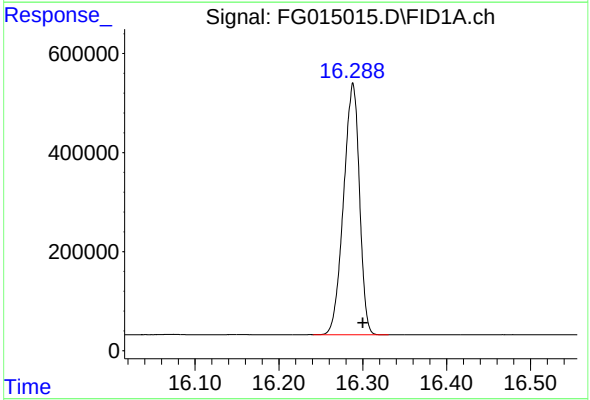
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



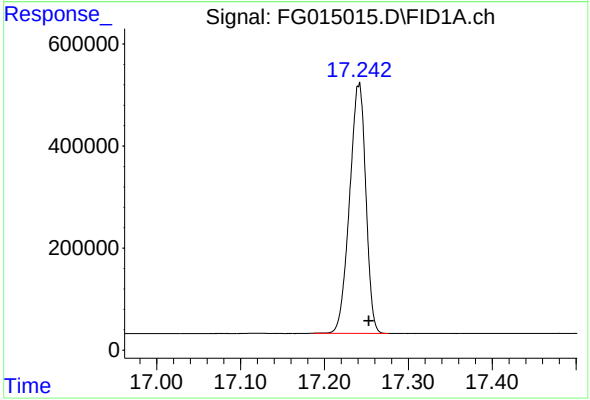
#10 N-TETRACOSANE

R.T.: 15.264 min
Delta R.T.: -0.010 min
Response: 6786928
Conc: 45.86 ug/ml



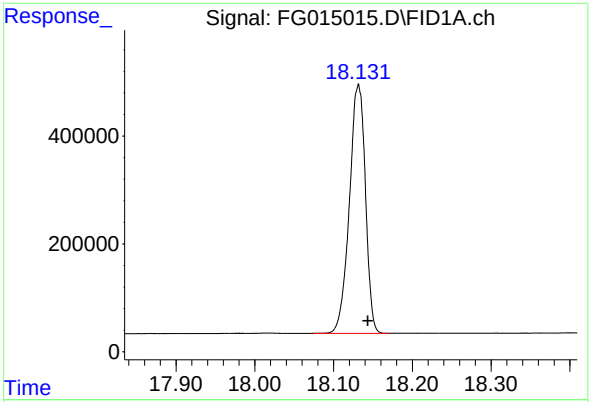
#11 N-HEXACOSANE

R.T.: 16.288 min
Delta R.T.: -0.012 min
Response: 6685365
Conc: 45.53 ug/ml



#12 N-OCTACOSANE

R.T.: 17.241 min
Delta R.T.: -0.012 min
Response: 6580705
Conc: 44.94 ug/ml



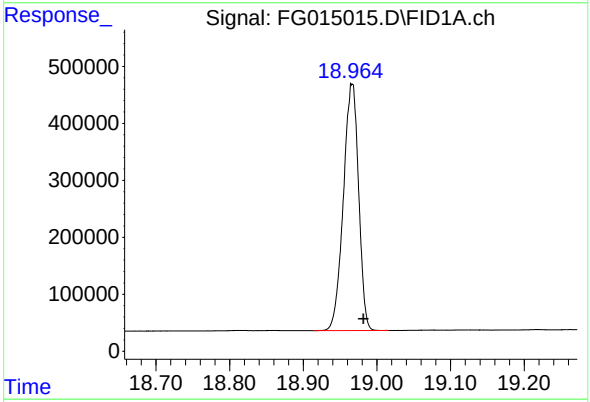
#13 N-TRIACONTANE

R.T.: 18.132 min
Delta R.T.: -0.012 min
Response: 6516073
Conc: 44.19 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

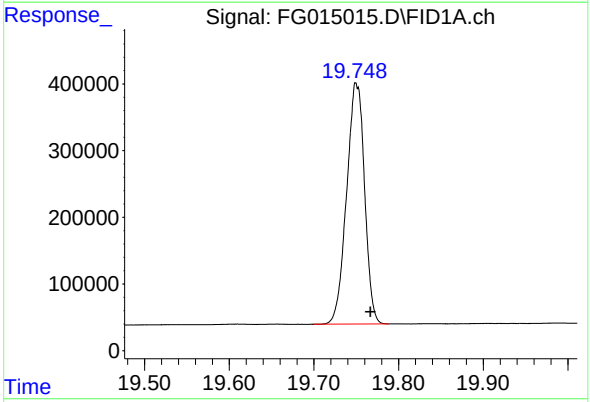
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



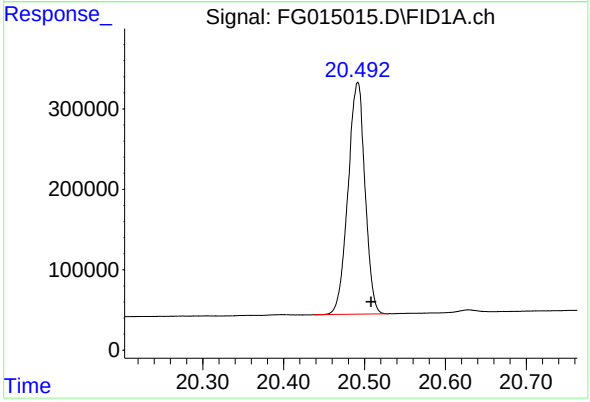
#14 N-DOTRIACONTANE

R.T.: 18.966 min
Delta R.T.: -0.015 min
Response: 6236967
Conc: 43.22 ug/ml



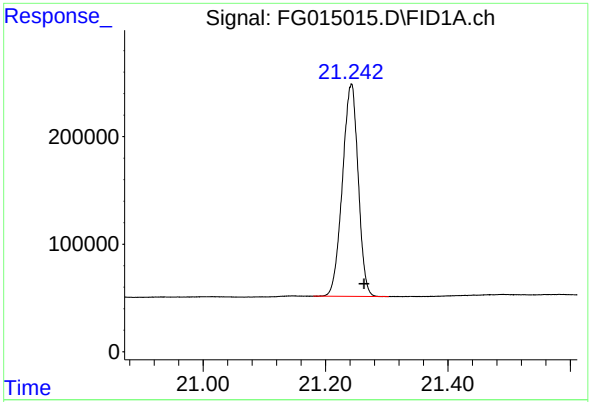
#15 N-TETRATRIACONTANE

R.T.: 19.750 min
Delta R.T.: -0.017 min
Response: 5329448
Conc: 41.03 ug/ml



#16 N-HEXATRIACONTANE

R.T.: 20.492 min
Delta R.T.: -0.016 min
Response: 4209112
Conc: 37.69 ug/ml



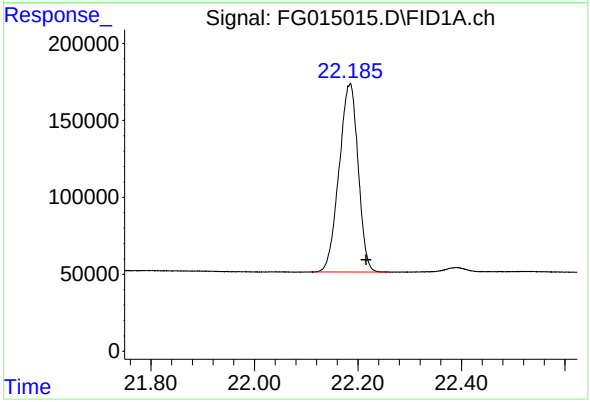
#17 N-OCTATRIACONTANE

R.T.: 21.242 min
Delta R.T.: -0.021 min
Response: 3529727
Conc: 34.51 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



#18 N-TETRACONTANE

R.T.: 22.185 min
Delta R.T.: -0.031 min
Response: 3121038
Conc: 32.56 ug/ml

Instrument :
FID_G
LabSampleId :
50 PPM TRPH STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG015015.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 11:02
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.014	1.978	2.077	BB	553381	5782919	82.36%	5.399%
2	4.552	4.513	4.594	BB	584526	5994973	85.38%	5.597%
3	6.735	6.698	6.768	BB	626591	6392456	91.04%	5.969%
4	8.572	8.537	8.611	BB	609694	6443794	91.77%	6.016%
5	10.188	10.152	10.231	BB	607530	6718268	95.68%	6.273%
6	11.638	11.599	11.679	BB	615614	7021634	100.00%	6.556%
7	12.953	12.908	12.998	BB	566600	6908728	98.39%	6.451%
8	14.157	14.119	14.194	BB	548893	6825399	97.21%	6.373%
9	15.059	15.014	15.089	BV	435060	6019462	85.73%	5.620%
10	15.264	15.223	15.302	BB	511725	6786928	96.66%	6.337%
11	16.288	16.241	16.331	BB	508330	6685365	95.21%	6.242%
12	17.241	17.187	17.277	BB	484847	6580705	93.72%	6.144%
13	18.132	18.074	18.170	BB	462617	6516073	92.80%	6.084%
14	18.966	18.913	19.016	BB	432508	6236967	88.83%	5.823%
15	19.750	19.699	19.788	BB	361256	5329448	75.90%	4.976%
16	20.492	20.437	20.530	BB	287903	4209112	59.94%	3.930%
17	21.242	21.180	21.303	BB	197645	3529727	50.27%	3.296%
18	22.185	22.113	22.259	BB	122534	3121038	44.45%	2.914%

Sum of corrected areas: 107102995

FG121924.M Tue Dec 24 01:00:15 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PARS02

ProjectID: Con Edison Non-MGP - East River 453648.60024.0

Lab Code: CHEM Case No.: P5361 SAS No.: P5361 SDG No.: P5361

DataFile: FG015022.D Analyst Name: YP\AJ Analyst Date: 12-23-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	104298486	122704	133673	8.206

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015022.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 14:19
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Dec 24 00:28:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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...	15.063	6127298	45.845 ug/ml
	Target Compounds			
1)	N-OCTANE	2.016	5939832	48.353 ug/ml
2)	N-DECANE	4.554	6269320	49.455 ug/ml
3)	N-DODECANE	6.738	6679142	49.811 ug/ml
4)	N-TETRADECANE	8.576	6622080	49.338 ug/ml
5)	N-HEXADECANE	10.191	6800207	48.524 ug/ml
6)	N-OCTADECANE	11.641	7040858	47.682 ug/ml
7)	N-EICOSANE	12.957	6890155	46.903 ug/ml
8)	N-DOCOSANE	14.160	6774569	46.058 ug/ml
10)	N-TETRACOSANE	15.269	6707161	45.319 ug/ml
11)	N-HEXACOSANE	16.293	6548009	44.598 ug/ml
12)	N-OCTACOSANE	17.245	6389105	43.630 ug/ml
13)	N-TRIACONTANE	18.135	6283307	42.613 ug/ml
14)	N-DOTRIACONTANE	18.969	6085363	42.170 ug/ml
15)	N-TETRATRIACONTANE	19.754	5520335	42.497 ug/ml
16)	N-HEXATRIACONTANE	20.497	4832523	43.276 ug/ml
17)	N-OCTATRIACONTANE	21.249	4486795	43.869 ug/ml
18)	N-TETRACONTANE	22.196	4429725	46.209 ug/ml

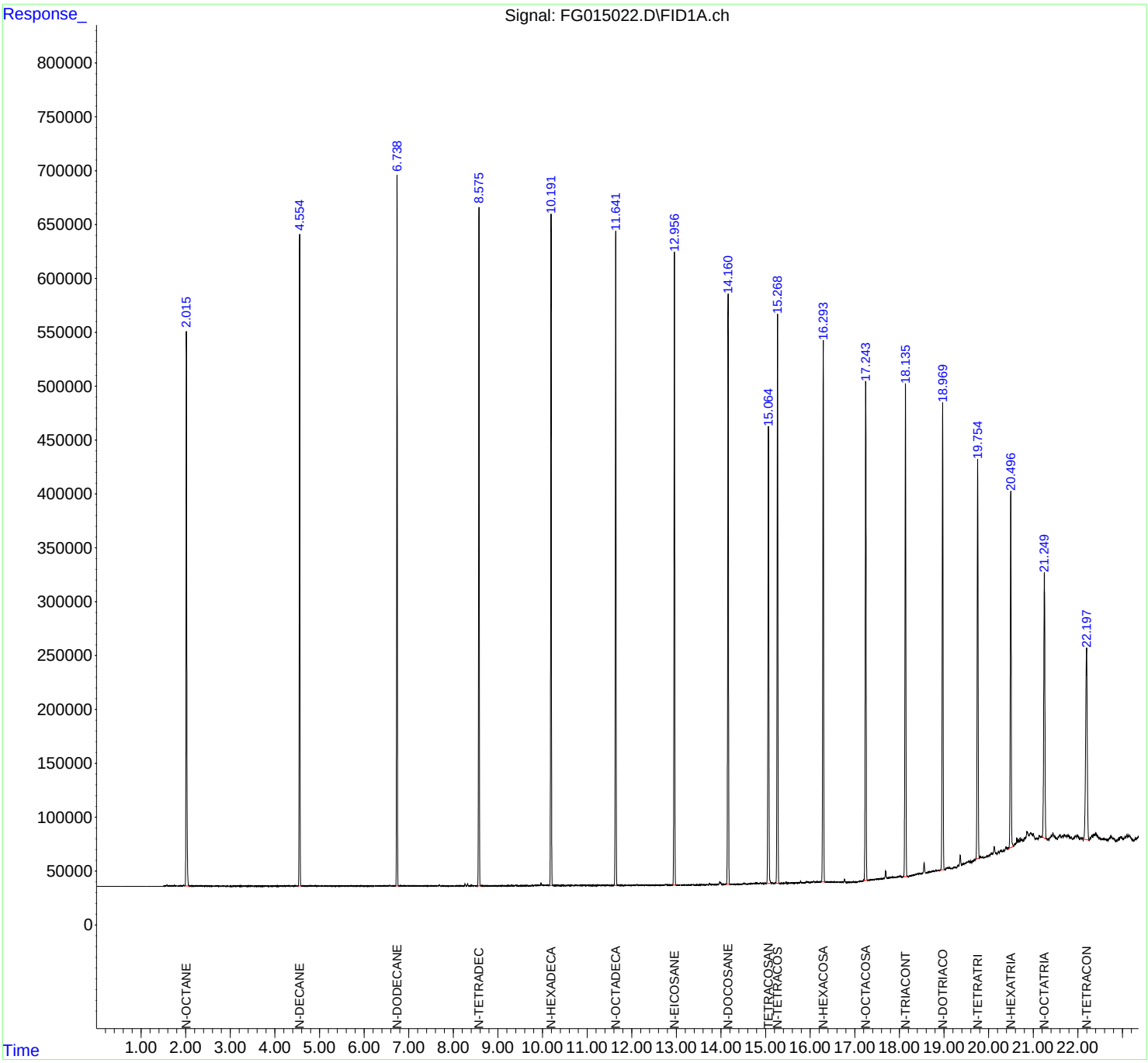
(f)=RT Delta > 1/2 Window (m)=manual int.

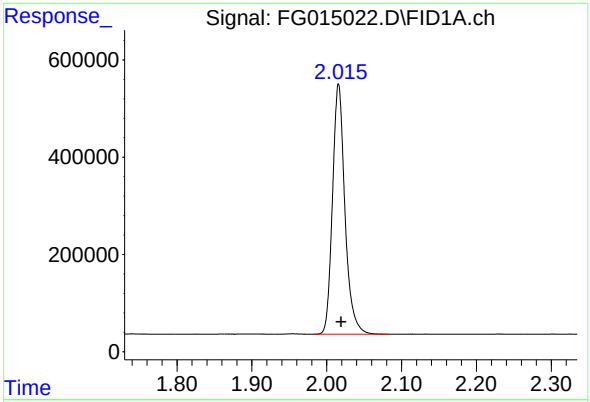
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015022.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 14:19
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Dec 24 00:28:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

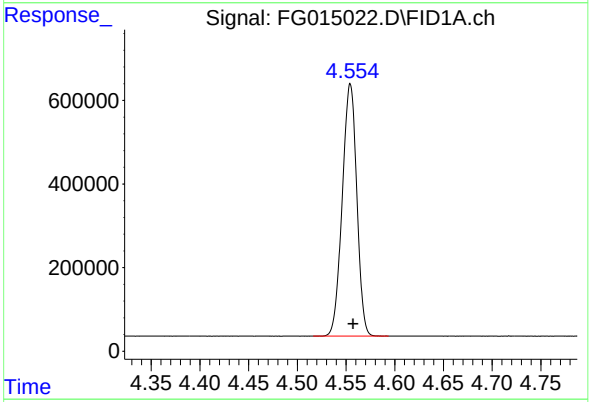




#1 N-OCTANE

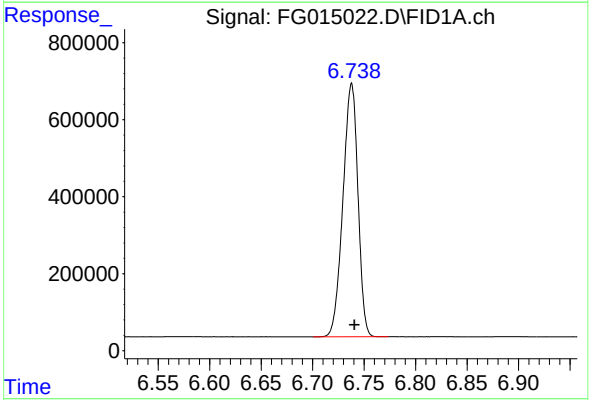
R.T.: 2.016 min
Delta R.T.: -0.003 min
Response: 5939832
Conc: 48.35 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



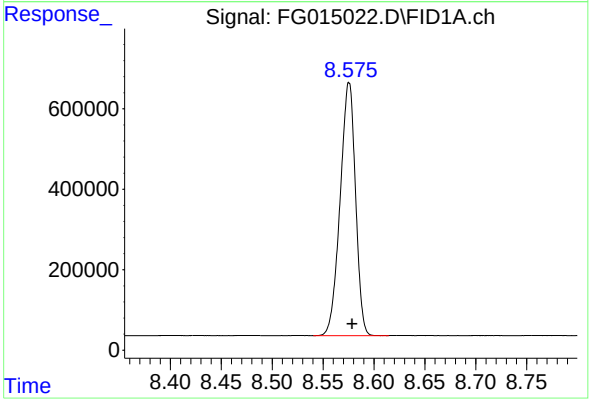
#2 N-DECANE

R.T.: 4.554 min
Delta R.T.: -0.003 min
Response: 6269320
Conc: 49.46 ug/ml



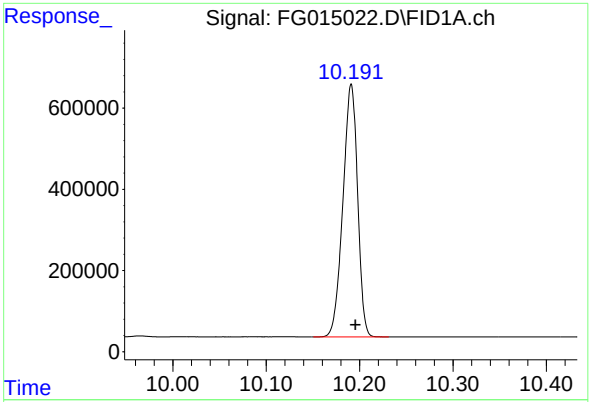
#3 N-DODECANE

R.T.: 6.738 min
Delta R.T.: -0.003 min
Response: 6679142
Conc: 49.81 ug/ml



#4 N-TETRADECANE

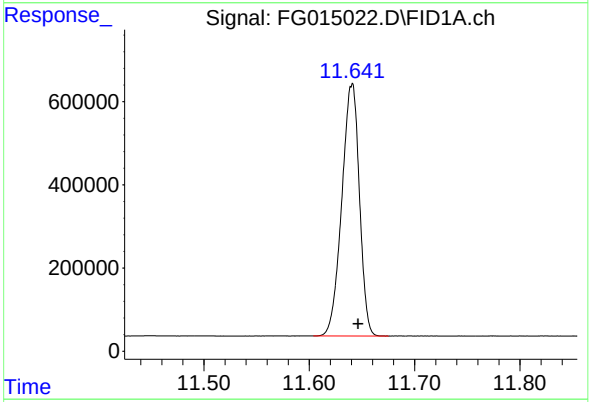
R.T.: 8.576 min
Delta R.T.: -0.003 min
Response: 6622080
Conc: 49.34 ug/ml



#5 N-HEXADECANE

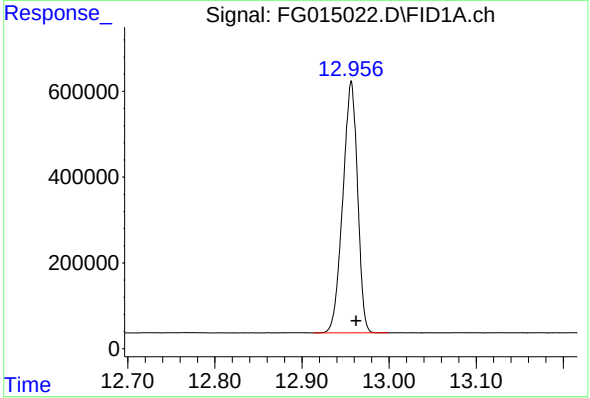
R.T.: 10.191 min
Delta R.T.: -0.004 min
Response: 6800207
Conc: 48.52 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



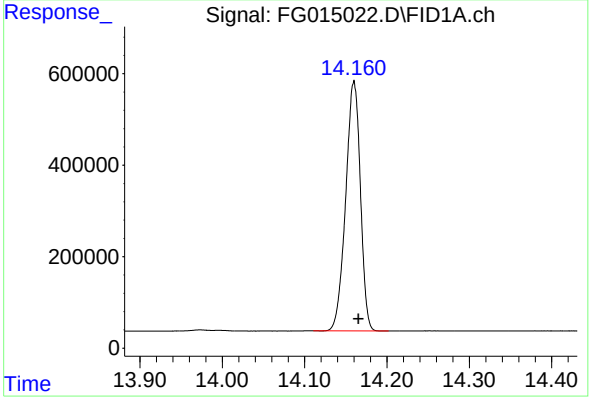
#6 N-OCTADECANE

R.T.: 11.641 min
Delta R.T.: -0.006 min
Response: 7040858
Conc: 47.68 ug/ml



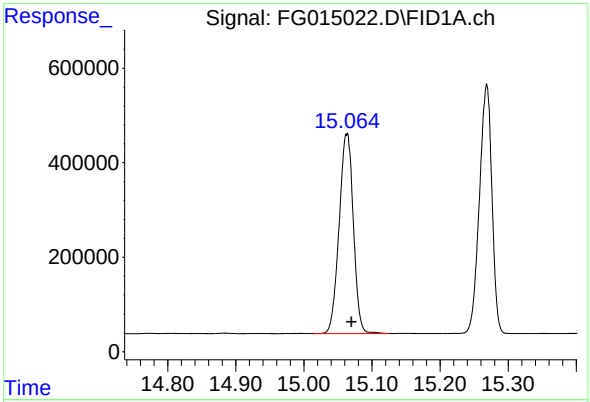
#7 N-EICOSANE

R.T.: 12.957 min
Delta R.T.: -0.006 min
Response: 6890155
Conc: 46.90 ug/ml



#8 N-DOCOSANE

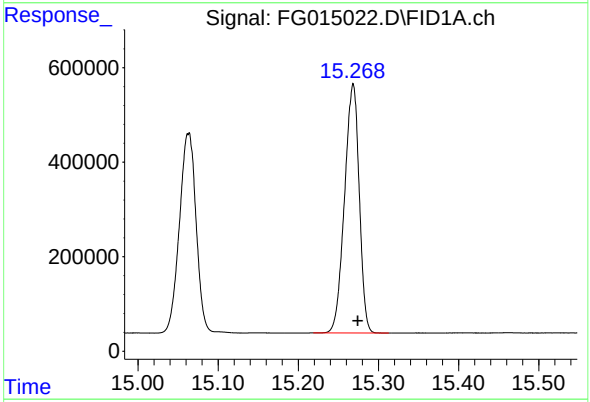
R.T.: 14.160 min
Delta R.T.: -0.006 min
Response: 6774569
Conc: 46.06 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

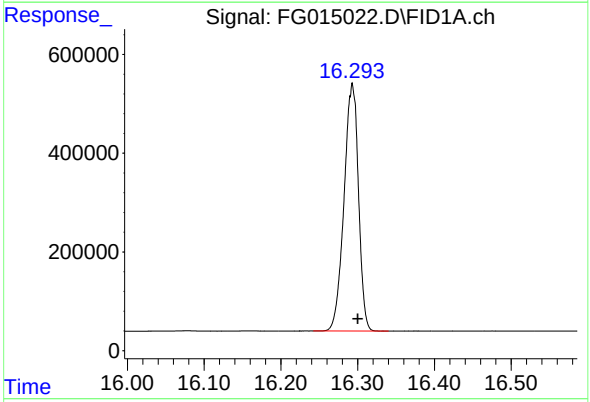
R.T.: 15.063 min
Delta R.T.: -0.007 min
Response: 6127298
Conc: 45.84 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



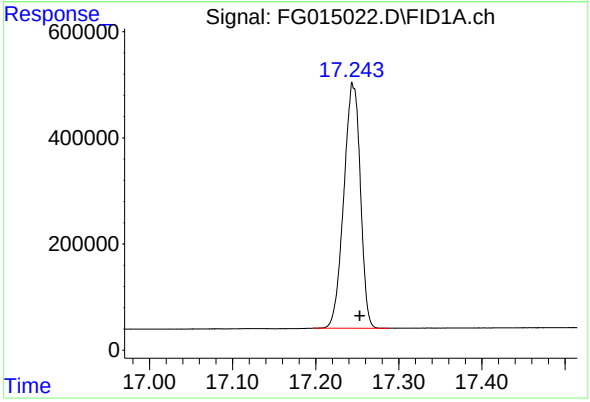
#10 N-TETRACOSANE

R.T.: 15.269 min
Delta R.T.: -0.005 min
Response: 6707161
Conc: 45.32 ug/ml



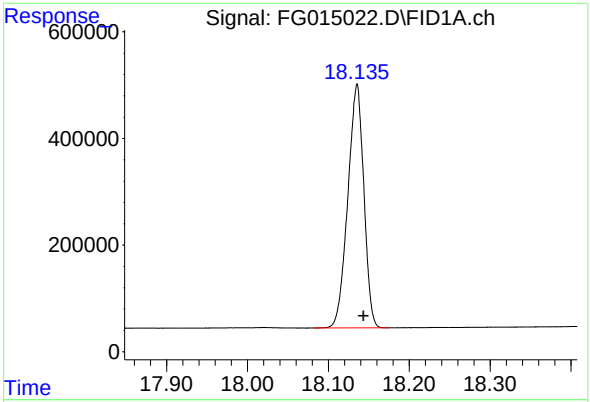
#11 N-HEXACOSANE

R.T.: 16.293 min
Delta R.T.: -0.007 min
Response: 6548009
Conc: 44.60 ug/ml



#12 N-OCTACOSANE

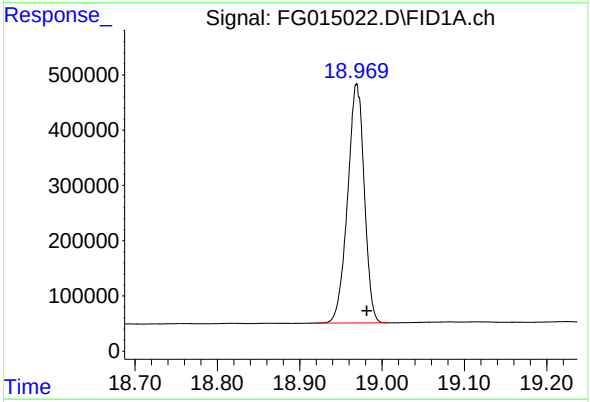
R.T.: 17.245 min
Delta R.T.: -0.008 min
Response: 6389105
Conc: 43.63 ug/ml



#13 N-TRIACONTANE

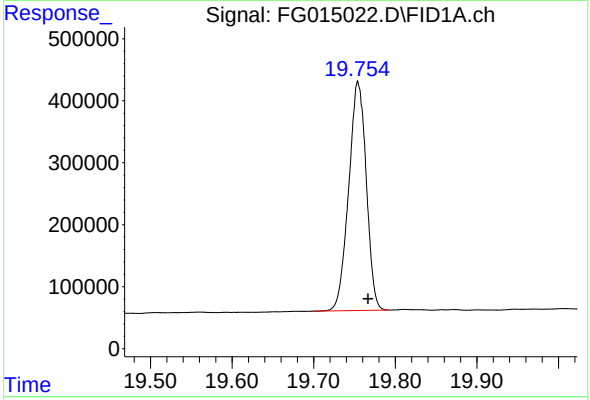
R.T.: 18.135 min
Delta R.T.: -0.008 min
Response: 6283307
Conc: 42.61 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



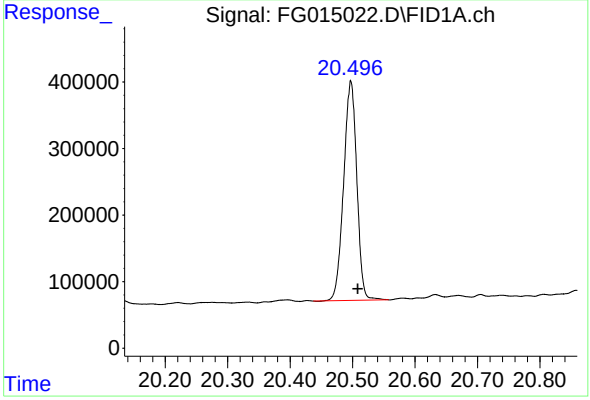
#14 N-DOTRIACONTANE

R.T.: 18.969 min
Delta R.T.: -0.013 min
Response: 6085363
Conc: 42.17 ug/ml



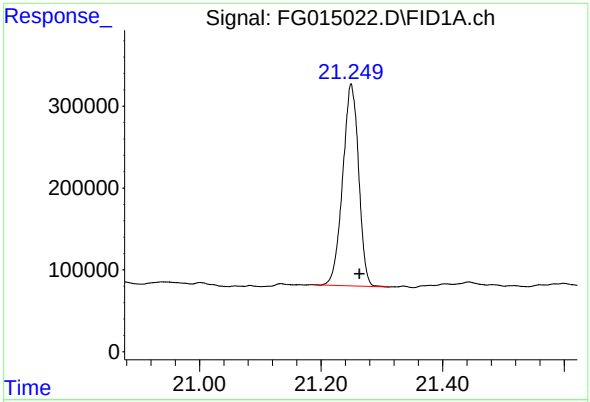
#15 N-TETRATRIACONTANE

R.T.: 19.754 min
Delta R.T.: -0.013 min
Response: 5520335
Conc: 42.50 ug/ml



#16 N-HEXATRIACONTANE

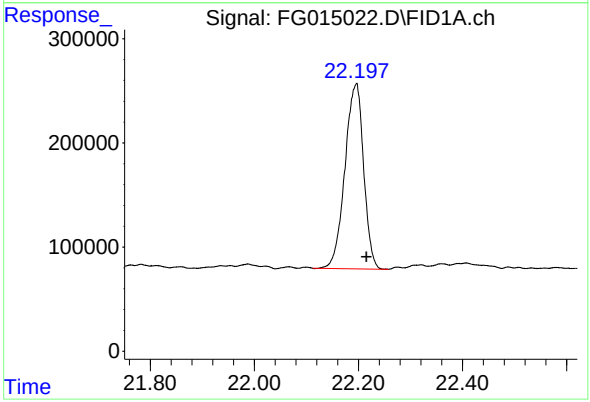
R.T.: 20.497 min
Delta R.T.: -0.011 min
Response: 4832523
Conc: 43.28 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.249 min
Delta R.T.: -0.014 min
Response: 4486795
Conc: 43.87 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



#18 N-TETRACONTANE

R.T.: 22.196 min
Delta R.T.: -0.020 min
Response: 4429725
Conc: 46.21 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015022.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 14:19
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.016	1.982	2.083	BB	513951	5939832	84.36%	5.379%
2	4.554	4.516	4.594	BB	603659	6269320	89.04%	5.677%
3	6.738	6.700	6.774	BB	658980	6679142	94.86%	6.049%
4	8.576	8.540	8.614	BB	628922	6622080	94.05%	5.997%
5	10.191	10.150	10.231	BB	623295	6800207	96.58%	6.158%
6	11.641	11.604	11.675	BB	602853	7040858	100.00%	6.376%
7	12.957	12.913	13.000	BB	588284	6890155	97.86%	6.240%
8	14.160	14.110	14.202	BB	544733	6774569	96.22%	6.135%
9	15.063	15.014	15.125	BB	420451	6127298	87.02%	5.549%
10	15.269	15.219	15.313	BB	527941	6707161	95.26%	6.074%
11	16.293	16.242	16.340	BB	501843	6548009	93.00%	5.930%
12	17.245	17.197	17.288	BB	457592	6389105	90.74%	5.786%
13	18.135	18.081	18.175	BB	457464	6283307	89.24%	5.690%
14	18.969	18.916	19.008	BB	431712	6085363	86.43%	5.511%
15	19.754	19.700	19.792	BB	368968	5520335	78.40%	4.999%
16	20.497	20.437	20.558	BB	328818	4832523	68.64%	4.376%
17	21.249	21.187	21.311	BB	246890	4486795	63.73%	4.063%
18	22.196	22.113	22.258	BV	177994	4429725	62.91%	4.011%

Sum of corrected areas: 110425782

FG121924.M Tue Dec 24 01:03:37 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PARS02

ProjectID: Con Edison Non-MGP - East River 453648.60024.0

Lab Code: CHEM Case No.: P5361 SAS No.: P5361 SDG No.: P5361

DataFile: FG015029.D Analyst Name: YP\AJ Analyst Date: 12-23-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	106851517	125708	133673	5.959

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015029.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 18:34
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Dec 24 00:31:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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...	15.061	6264252	46.869 ug/ml
	Target Compounds			
1)	N-OCTANE	2.014	6086961	49.550 ug/ml
2)	N-DECANE	4.552	6425891	50.690 ug/ml
3)	N-DODECANE	6.735	6830543	50.940 ug/ml
4)	N-TETRADECANE	8.572	6772250	50.457 ug/ml
5)	N-HEXADECANE	10.188	6954049	49.622 ug/ml
6)	N-OCTADECANE	11.638	7199686	48.758 ug/ml
7)	N-EICOSANE	12.954	7043429	47.946 ug/ml
8)	N-DOCOSANE	14.159	6928734	47.106 ug/ml
10)	N-TETRACOSANE	15.267	6853242	46.306 ug/ml
11)	N-HEXACOSANE	16.291	6695979	45.606 ug/ml
12)	N-OCTACOSANE	17.245	6554866	44.761 ug/ml
13)	N-TRIACONTANE	18.135	6469621	43.876 ug/ml
14)	N-DOTRIACONTANE	18.970	6269060	43.443 ug/ml
15)	N-TETRATRIACONTANE	19.757	5678444	43.714 ug/ml
16)	N-HEXATRIACONTANE	20.498	4965293	44.465 ug/ml
17)	N-OCTATRIACONTANE	21.249	4605570	45.030 ug/ml
18)	N-TETRACONTANE	22.195	4517899	47.128 ug/ml

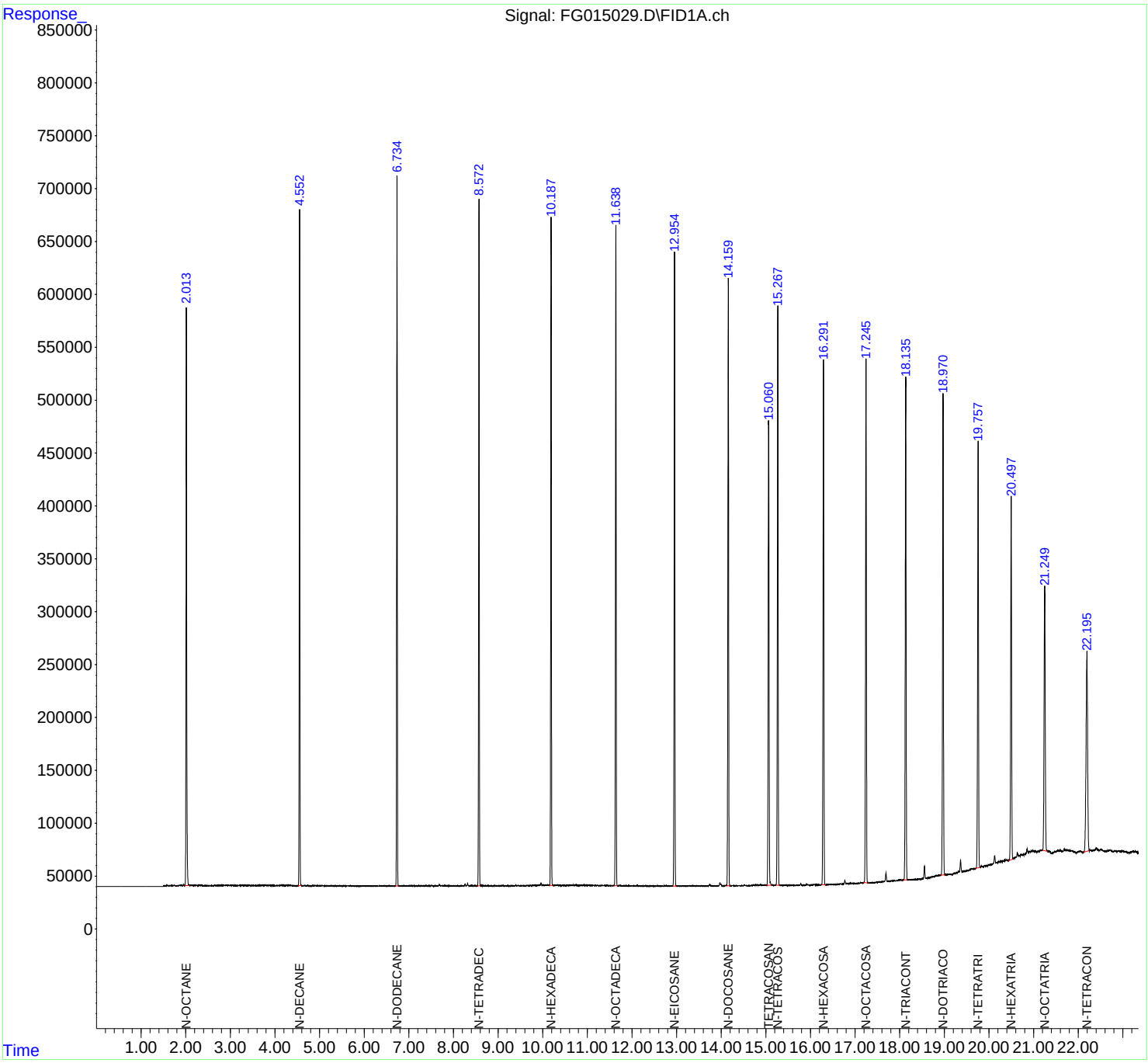
(f)=RT Delta > 1/2 Window (m)=manual int.

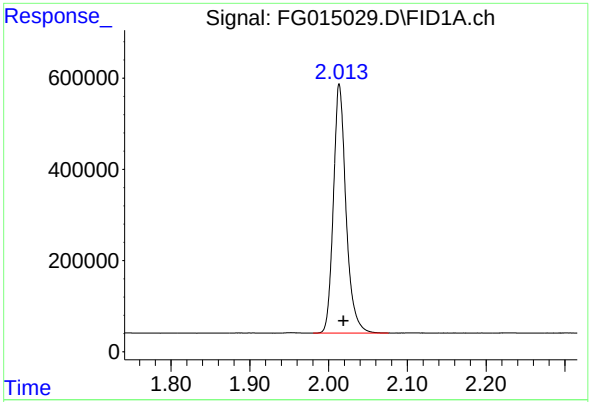
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015029.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 18:34
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Dec 24 00:31:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

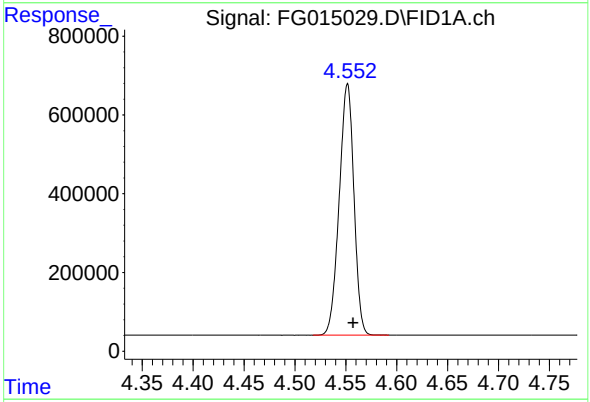




#1 N-OCTANE

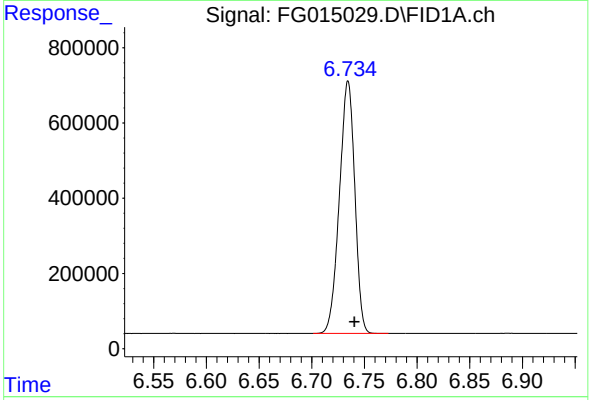
R.T.: 2.014 min
Delta R.T.: -0.005 min
Response: 6086961
Conc: 49.55 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



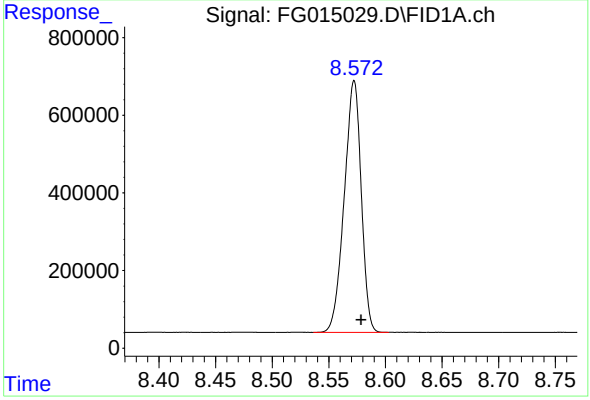
#2 N-DECANE

R.T.: 4.552 min
Delta R.T.: -0.006 min
Response: 6425891
Conc: 50.69 ug/ml



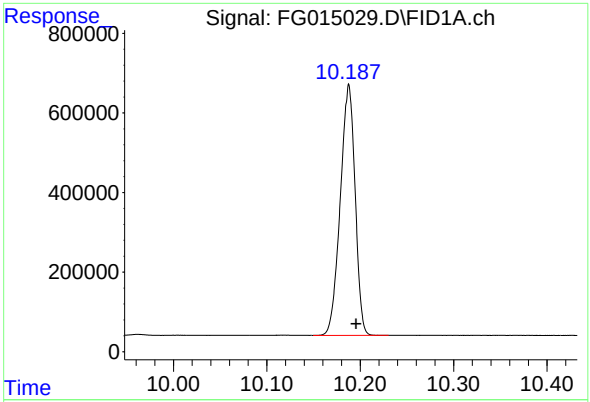
#3 N-DODECANE

R.T.: 6.735 min
Delta R.T.: -0.006 min
Response: 6830543
Conc: 50.94 ug/ml



#4 N-TETRADECANE

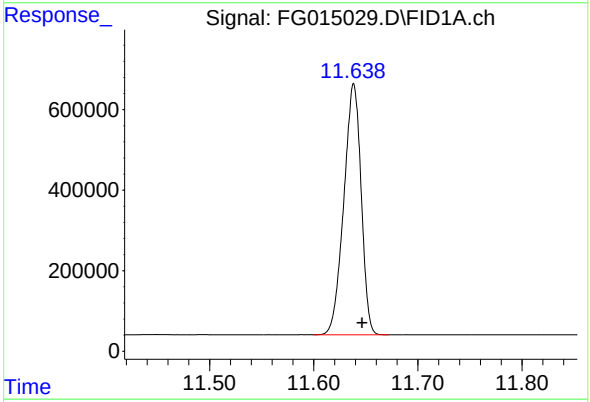
R.T.: 8.572 min
Delta R.T.: -0.006 min
Response: 6772250
Conc: 50.46 ug/ml



#5 N-HEXADECANE

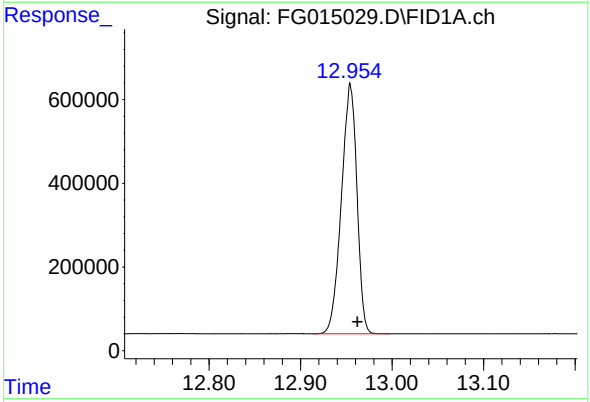
R.T.: 10.188 min
Delta R.T.: -0.008 min
Response: 6954049
Conc: 49.62 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



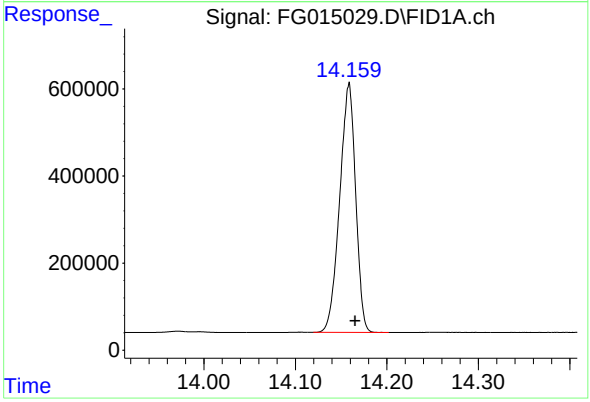
#6 N-OCTADECANE

R.T.: 11.638 min
Delta R.T.: -0.008 min
Response: 7199686
Conc: 48.76 ug/ml



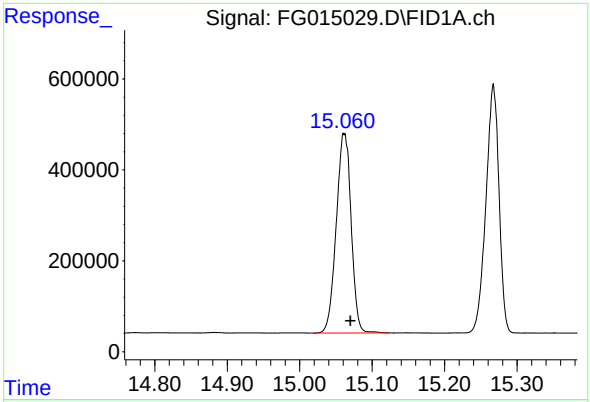
#7 N-EICOSANE

R.T.: 12.954 min
Delta R.T.: -0.008 min
Response: 7043429
Conc: 47.95 ug/ml



#8 N-DOCOSANE

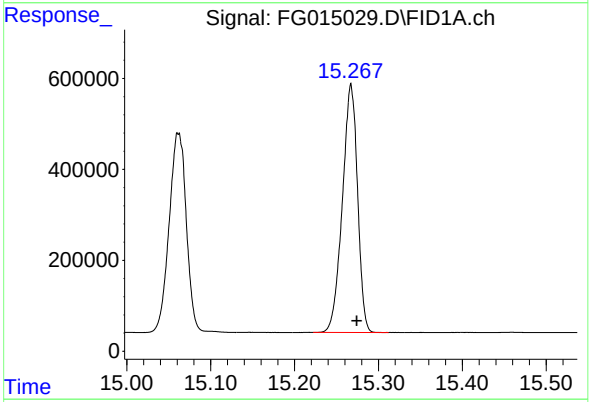
R.T.: 14.159 min
Delta R.T.: -0.007 min
Response: 6928734
Conc: 47.11 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

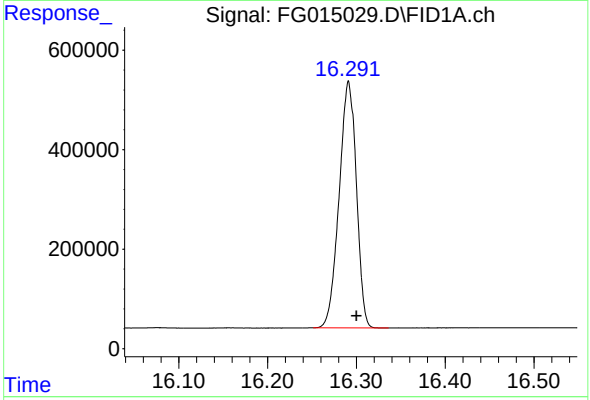
R.T.: 15.061 min
Delta R.T.: -0.009 min
Response: 6264252
Conc: 46.87 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



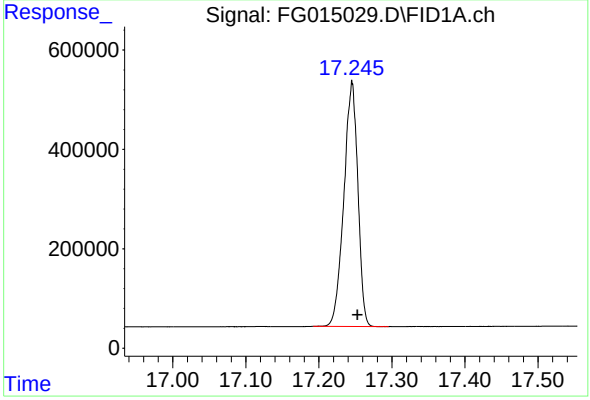
#10 N-TETRACOSANE

R.T.: 15.267 min
Delta R.T.: -0.007 min
Response: 6853242
Conc: 46.31 ug/ml



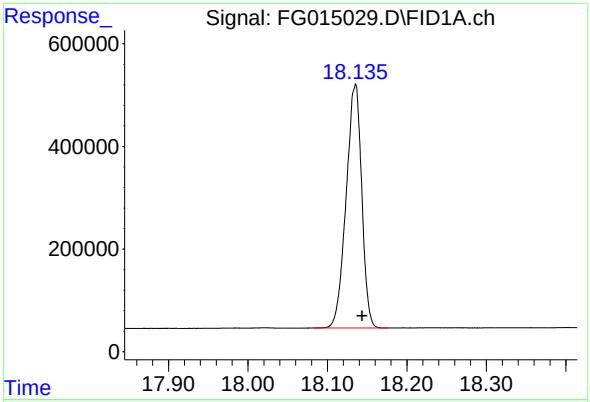
#11 N-HEXACOSANE

R.T.: 16.291 min
Delta R.T.: -0.009 min
Response: 6695979
Conc: 45.61 ug/ml



#12 N-OCTACOSANE

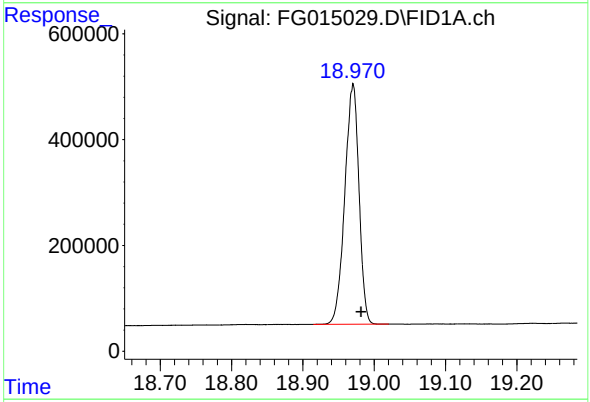
R.T.: 17.245 min
Delta R.T.: -0.007 min
Response: 6554866
Conc: 44.76 ug/ml



#13 N-TRIACONTANE

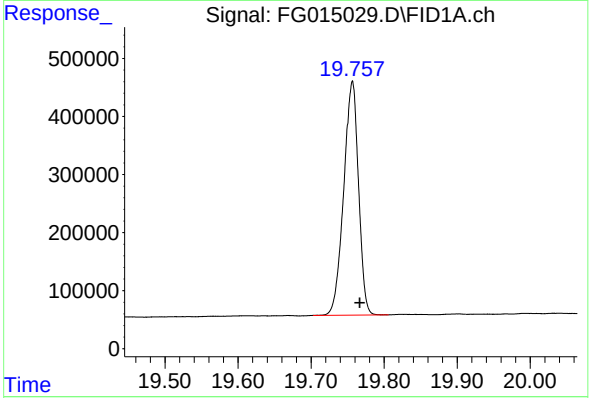
R.T.: 18.135 min
Delta R.T.: -0.008 min
Response: 6469621
Conc: 43.88 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



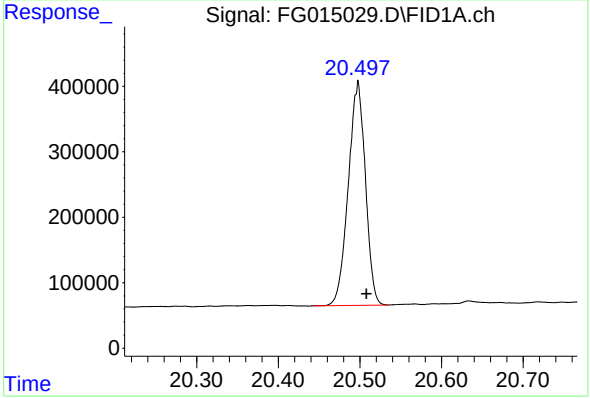
#14 N-DOTRIACONTANE

R.T.: 18.970 min
Delta R.T.: -0.011 min
Response: 6269060
Conc: 43.44 ug/ml



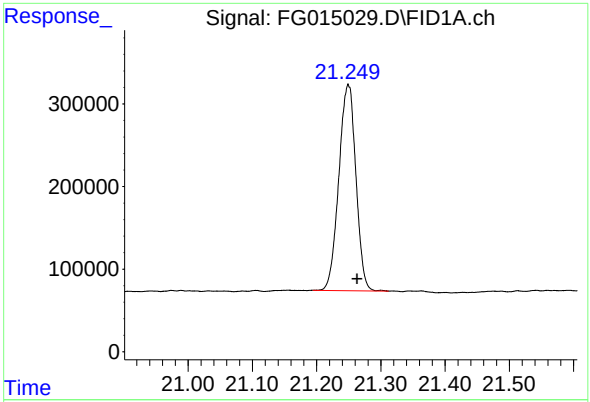
#15 N-TETRATRIACONTANE

R.T.: 19.757 min
Delta R.T.: -0.010 min
Response: 5678444
Conc: 43.71 ug/ml



#16 N-HEXATRIACONTANE

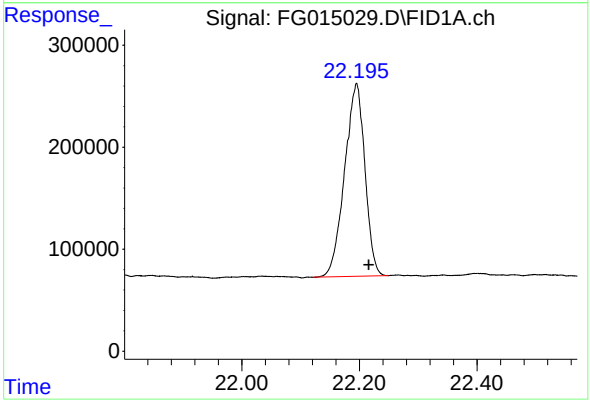
R.T.: 20.498 min
Delta R.T.: -0.010 min
Response: 4965293
Conc: 44.46 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.249 min
Delta R.T.: -0.014 min
Response: 4605570
Conc: 45.03 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



#18 N-TETRACONTANE

R.T.: 22.195 min
Delta R.T.: -0.021 min
Response: 4517899
Conc: 47.13 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015029.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 18:34
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.014	1.980	2.076	BB	546003	6086961	84.54%	5.381%
2	4.552	4.518	4.592	BB	640041	6425891	89.25%	5.681%
3	6.735	6.701	6.773	BB	671308	6830543	94.87%	6.039%
4	8.572	8.536	8.603	BB	648851	6772250	94.06%	5.987%
5	10.188	10.150	10.230	BB	631402	6954049	96.59%	6.148%
6	11.638	11.600	11.672	BB	624238	7199686	100.00%	6.365%
7	12.954	12.914	12.996	BB	594706	7043429	97.83%	6.227%
8	14.159	14.120	14.202	BB	572059	6928734	96.24%	6.125%
9	15.061	15.019	15.123	BB	435830	6264252	87.01%	5.538%
10	15.267	15.222	15.312	BB	546658	6853242	95.19%	6.059%
11	16.291	16.251	16.336	BB	496335	6695979	93.00%	5.920%
12	17.245	17.192	17.295	BB	494496	6554866	91.04%	5.795%
13	18.135	18.082	18.177	BB	475511	6469621	89.86%	5.719%
14	18.970	18.915	19.020	BB	455216	6269060	87.07%	5.542%
15	19.757	19.703	19.806	BB	404080	5678444	78.87%	5.020%
16	20.498	20.443	20.535	BB	343666	4965293	68.97%	4.390%
17	21.249	21.195	21.312	BB	249679	4605570	63.97%	4.072%
18	22.195	22.121	22.250	BB	189215	4517899	62.75%	3.994%

Sum of corrected areas: 113115768

FG121924.M Tue Dec 24 01:05:51 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Analytical Sequence

Client: PARSONS Engineering of New York, Inc. **SDG No.:** P5361

Project: Con Edison Non-MGP - East River 453648.60024.03 **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 **15.074**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	23 Dec 2024 10:34	FG015014.D	15.054	
50 PPM TRPH STD	50 PPM TRPH STD	23 Dec 2024 11:02	FG015015.D	15.058	
SB-01-20241219-7.0-7.5	P5361-01	23 Dec 2024 12:26	FG015018.D	15.059	
SB-01-20241219-9.0-9.5	P5361-02	23 Dec 2024 12:54	FG015019.D	15.060	
SB-01-20241219-9.0-9.5MS	P5361-02MS	23 Dec 2024 13:23	FG015020.D	15.058	
PIBLK02	I.BLK02	23 Dec 2024 13:51	FG015021.D	15.059	
50 PPM TRPH STD	50 PPM TRPH STD	23 Dec 2024 14:19	FG015022.D	15.063	
PB165807BL	PB165807BL	23 Dec 2024 15:44	FG015024.D	15.061	
PB165807BS	PB165807BS	23 Dec 2024 16:12	FG015025.D	15.058	
SB-01-20241219-9.0-9.5MSD	P5361-02MSD	23 Dec 2024 16:41	FG015026.D	15.057	
PIBLK03	I.BLK03	23 Dec 2024 17:37	FG015028.D	15.058	
50 PPM TRPH STD	50 PPM TRPH STD	23 Dec 2024 18:34	FG015029.D	15.061	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.974	15.174

QC SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	
Client Sample ID:	PB165807BL	SDG No.:	P5361
Lab Sample ID:	PB165807BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015024.D	1	12/23/24 08:35	12/23/24 15:44	PB165807

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	2830	U	318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.0		37 - 130	80%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015024.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 15:44
Operator : YP\AJ
Sample : PB165807BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB165807BL

Integration File: autoint1.e
Quant Time: Dec 24 00:29:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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...	15.061	2133681	15.964 ug/ml
Target Compounds			

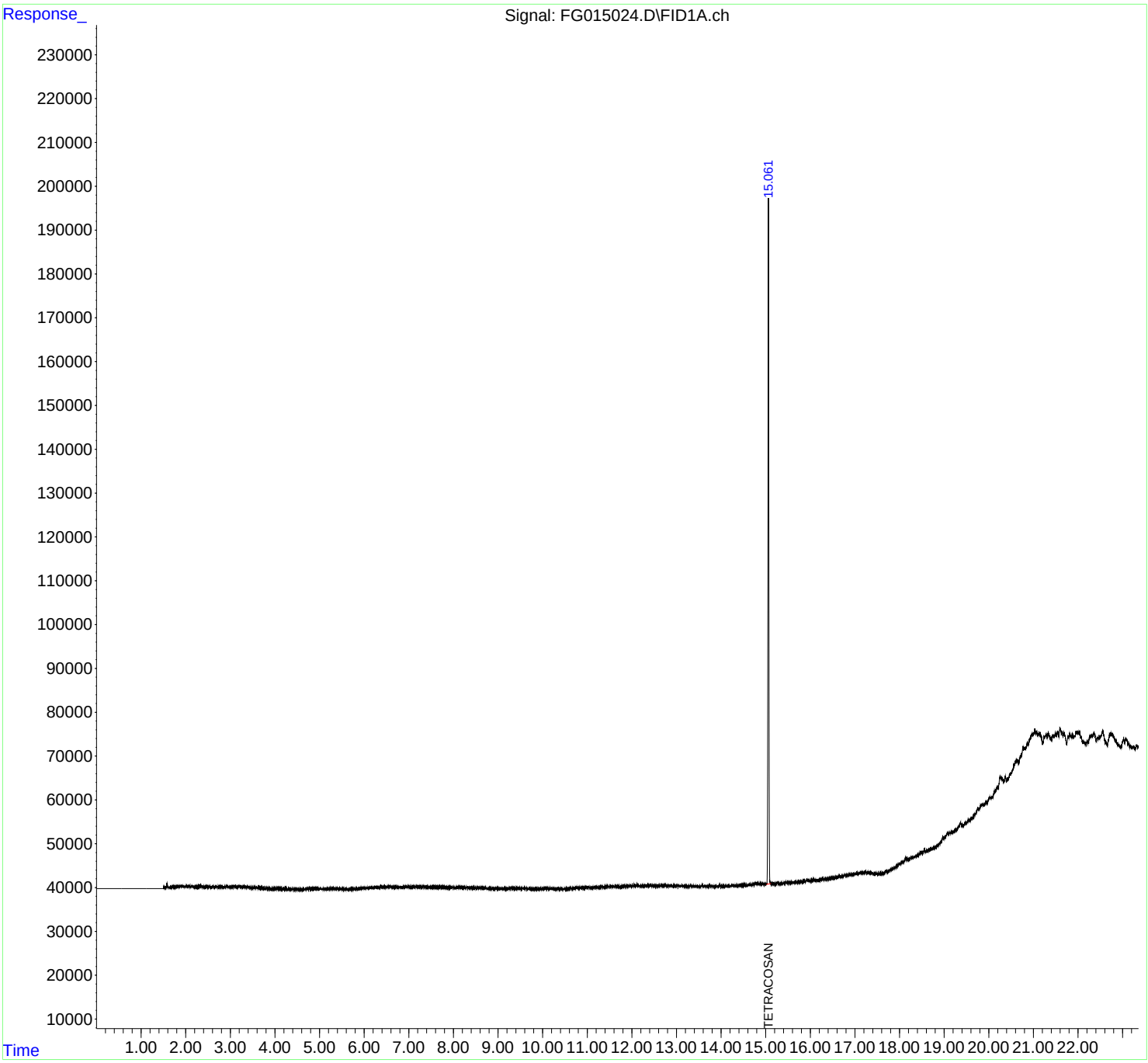
(f)=RT Delta > 1/2 Window (m)=manual int.

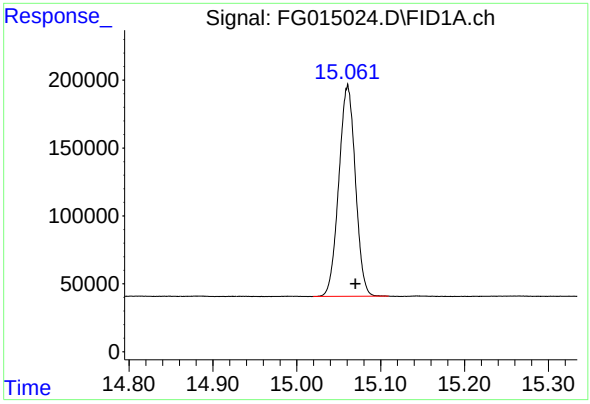
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015024.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 15:44
Operator : YP\AJ
Sample : PB165807BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB165807BL

Integration File: autoint1.e
Quant Time: Dec 24 00:29:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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.: 15.061 min
Delta R.T.: -0.009 min
Response: 2133681
Conc: 15.96 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165807BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015024.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 15:44
Sample : PB165807BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.061	15.020	15.110	BB	154933	2133681	100.00%	100.000%

Sum of corrected areas: 2133681

FG121924.M Tue Dec 24 01:04:05 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	12/23/24
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	12/23/24
Client Sample ID:	PIBLK-FG015014.D	SDG No.:	P5361
Lab Sample ID:	I.BLK-FG015014.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015014.D	1		12/23/24	FG122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	85.0	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.0		29 - 130	95%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015014.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 10:34
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 24 00:26:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.054	2542099	19.020 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015014.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 10:34
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

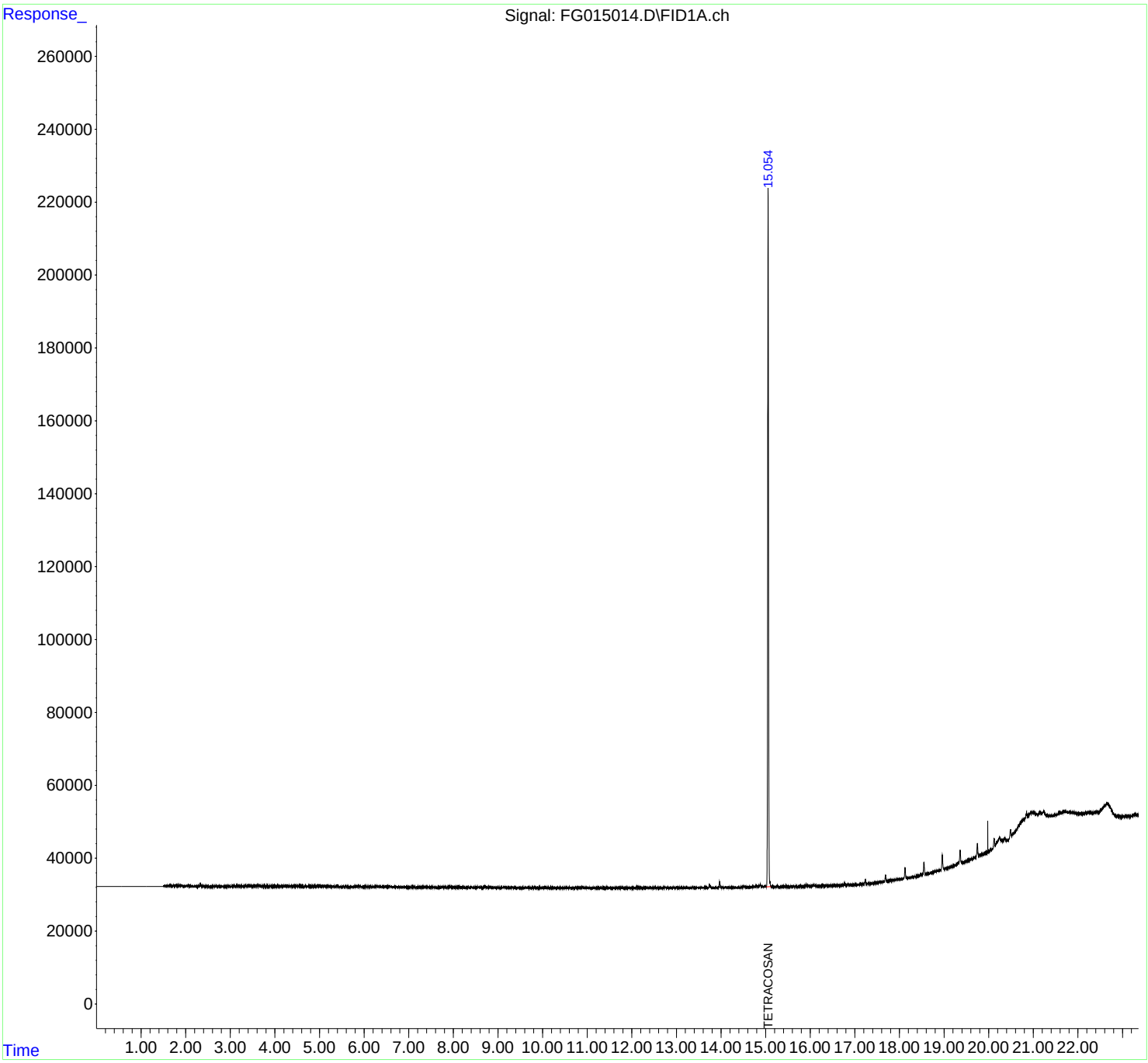
Integration File: autoint1.e
Quant Time: Dec 24 00:26:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

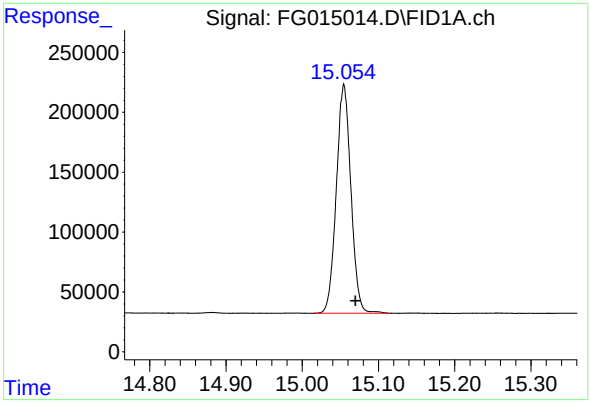
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.054 min
Delta R.T.:	-0.016 min
Response:	2542099
Conc:	19.02 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Instrument :
FID_G
LabSampleId :
I.BLK

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG015014.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 10:34
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.055	15.015	15.104	BB	190987	2516732	100.00%	100.000%

Sum of corrected areas: 2516732

FG121924.M Tue Dec 24 02:24:48 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	12/23/24
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	12/23/24
Client Sample ID:	PIBLK-FG015021.D	SDG No.:	P5361
Lab Sample ID:	I.BLK-FG015021.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015021.D	1		12/23/24	FG122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	85.0	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.5		29 - 130	92%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015021.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 13:51
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 24 00:28:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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	2472373	18.498 ug/ml
Target Compounds			

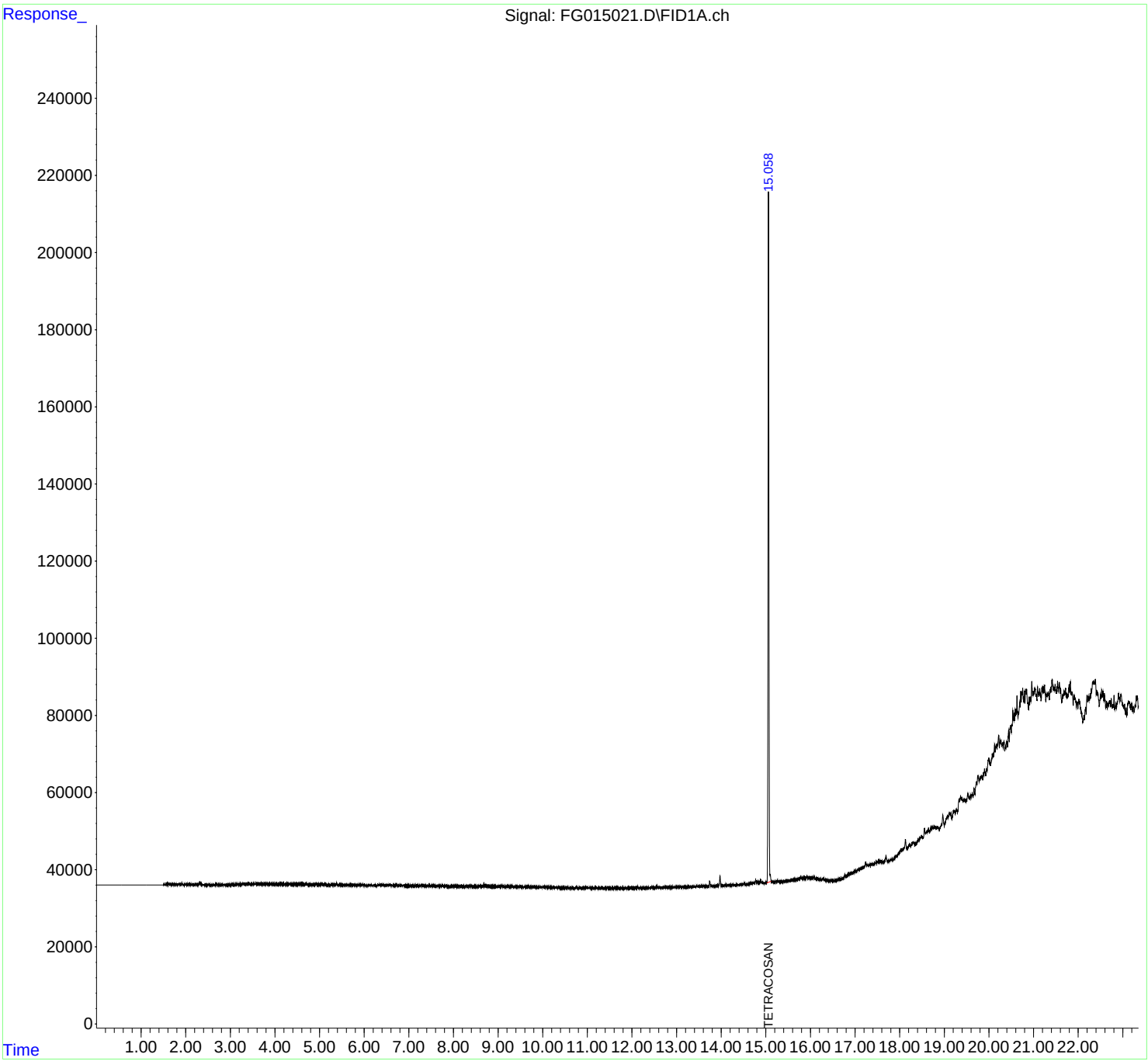
(f)=RT Delta > 1/2 Window (m)=manual int.

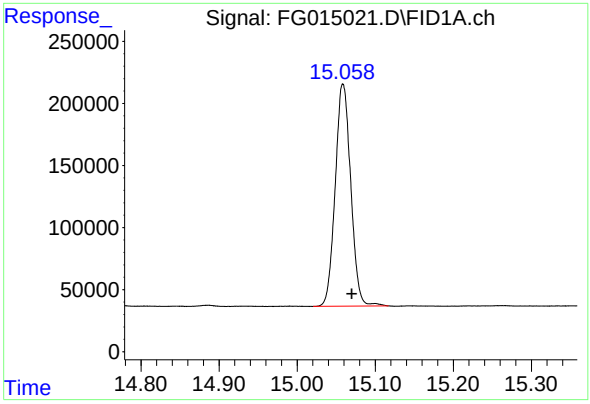
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015021.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 13:51
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 24 00:28:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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.:	-0.011 min
Response:	2472373
Conc:	18.50 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015021.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 13:51
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.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	15.020	15.117	BB	178875	2472373	100.00%	100.000%

Sum of corrected areas: 2472373

FG121924.M Tue Dec 24 01:03:11 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	12/23/24
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	12/23/24
Client Sample ID:	PIBLK-FG015028.D	SDG No.:	P5361
Lab Sample ID:	I.BLK-FG015028.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015028.D	1		12/23/24	FG122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	85.0	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.4		29 - 130	92%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015028.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 17:37
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 24 00:30:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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...	15.058	2458731	18.396 ug/ml
Target Compounds			

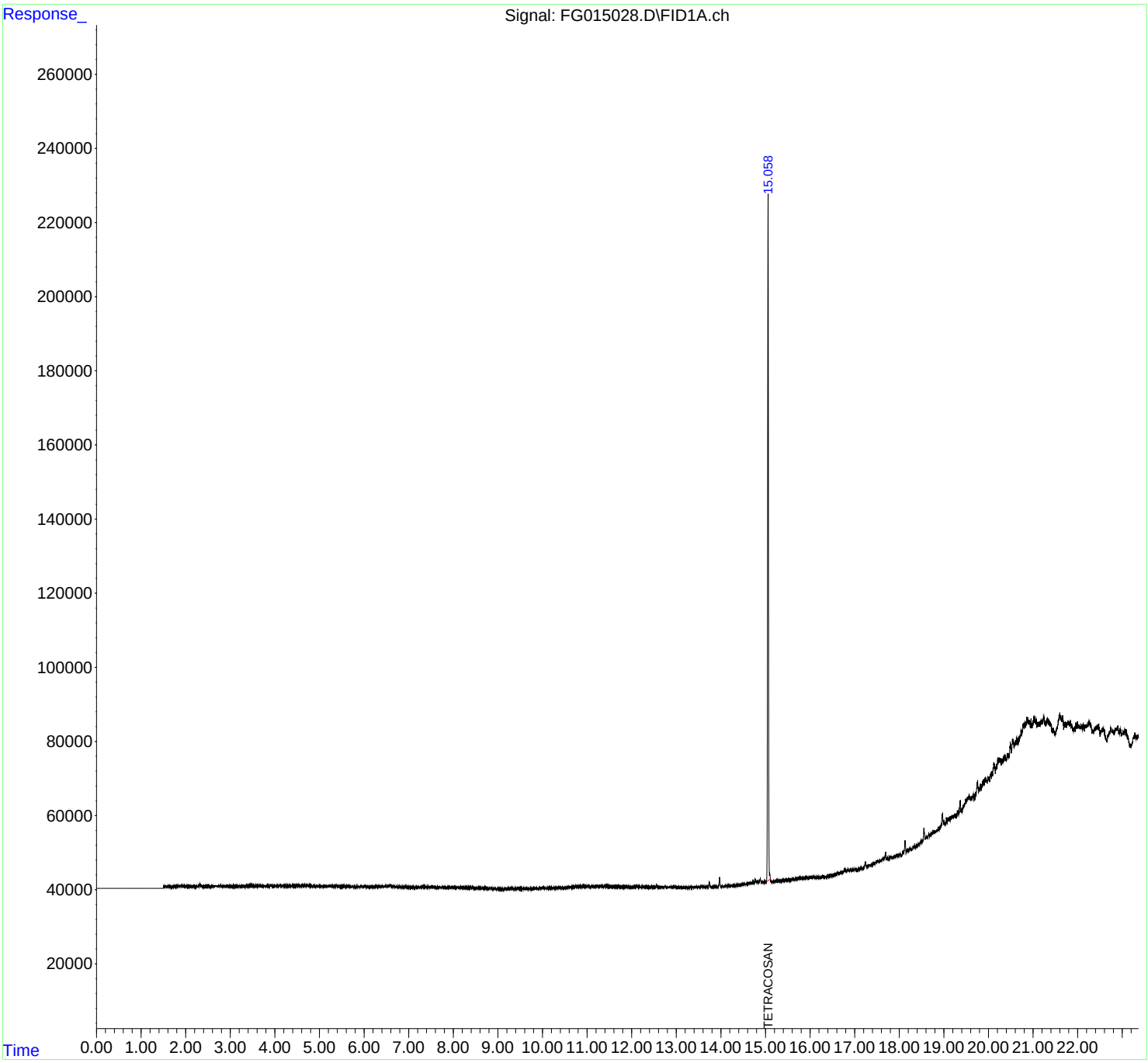
(f)=RT Delta > 1/2 Window (m)=manual int.

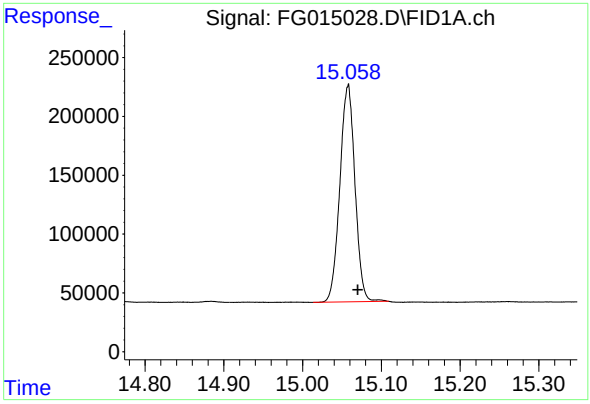
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015028.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 17:37
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Dec 24 00:30:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 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.:	15.058 min
Delta R.T.:	-0.012 min
Response:	2458731
Conc:	18.40 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015028.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 17:37
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.058	15.013	15.109	BB	183560	2458731	100.00%	100.000%

Sum of corrected areas: 2458731

FG121924.M Tue Dec 24 01:05:34 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	
Client Sample ID:	PB165807BS	SDG No.:	P5361
Lab Sample ID:	PB165807BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015025.D	1	12/23/24 08:35	12/23/24 16:12	PB165807

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	8190		318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.9		37 - 130	74%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015025.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 16:12
Operator : YP\AJ
Sample : PB165807BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 24 00:29:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
PB165807BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.058	1989782	14.888 ug/ml
	Target Compounds			
1)	N-OCTANE	2.016	1265987	10.306 ug/ml
2)	N-DECANE	4.551	1794918	14.159 ug/ml
3)	N-DODECANE	6.732	1993607	14.868 ug/ml
4)	N-TETRADECANE	8.570	2106495	15.694 ug/ml
5)	N-HEXADECANE	10.185	2175964	15.527 ug/ml
6)	N-OCTADECANE	11.635	2246336	15.213 ug/ml
7)	N-EICOSANE	12.952	2286089	15.562 ug/ml
8)	N-DOCOSANE	14.154	2215959	15.065 ug/ml
10)	N-TETRACOSANE	15.262	2189399	14.793 ug/ml
11)	N-HEXACOSANE	16.288	2149912	14.643 ug/ml
12)	N-OCTACOSANE	17.241	2085348	14.240 ug/ml
13)	N-TRIACONTANE	18.131	2073701	14.064 ug/ml
14)	N-DOTRIACONTANE	18.968	1988161	13.777 ug/ml
15)	N-TETRATRIACONTANE	19.752	1832567	14.108 ug/ml
16)	N-HEXATRIACONTANE	20.494	1617859	14.488 ug/ml
17)	N-OCTATRIACONTANE	21.243	1516224	14.825 ug/mlm
18)	N-TETRACONTANE	22.187	1388494	14.484 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015025.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 16:12
Operator : YP\AJ
Sample : PB165807BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

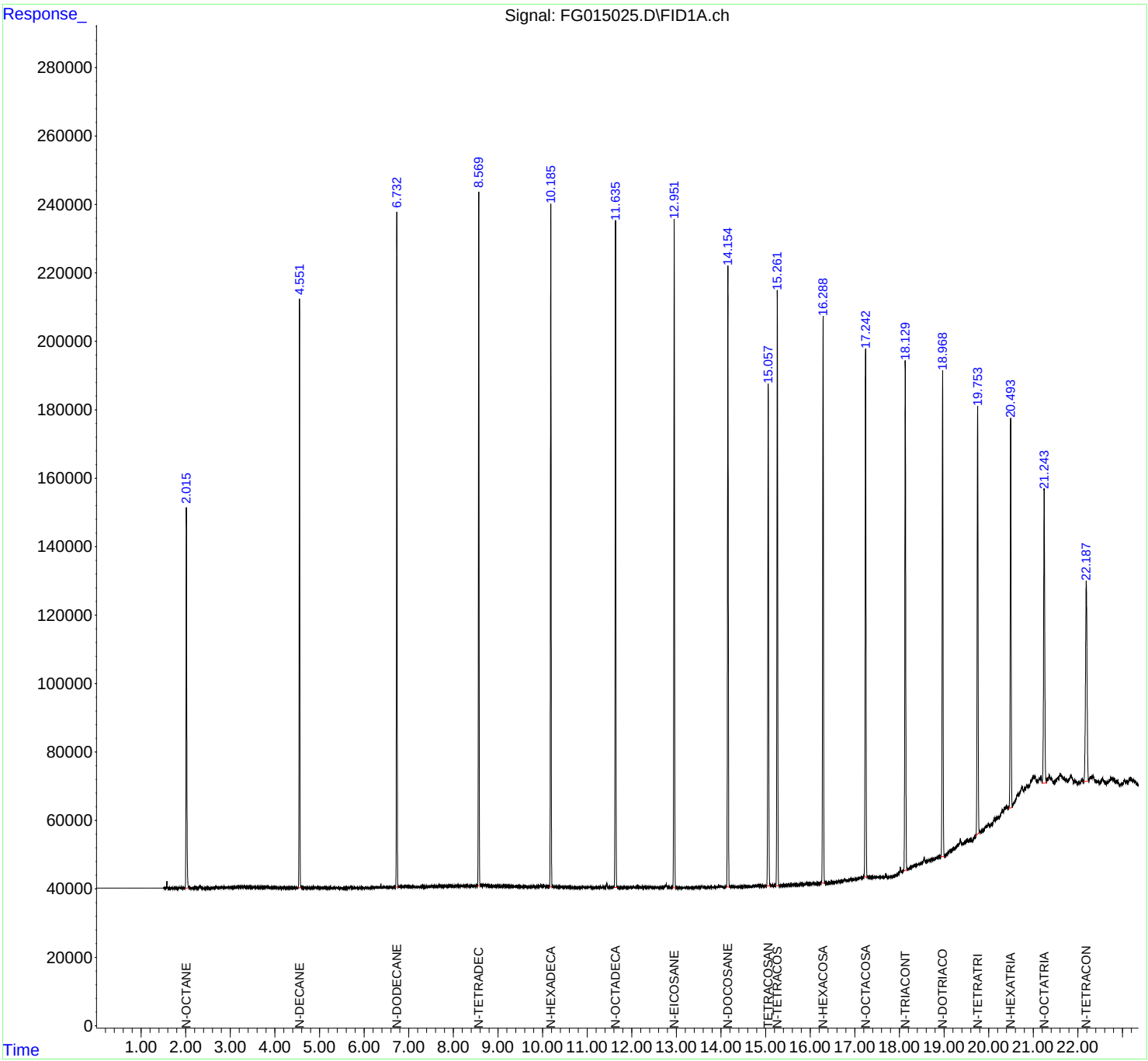
Integration File: autoint1.e
Quant Time: Dec 24 00:29:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

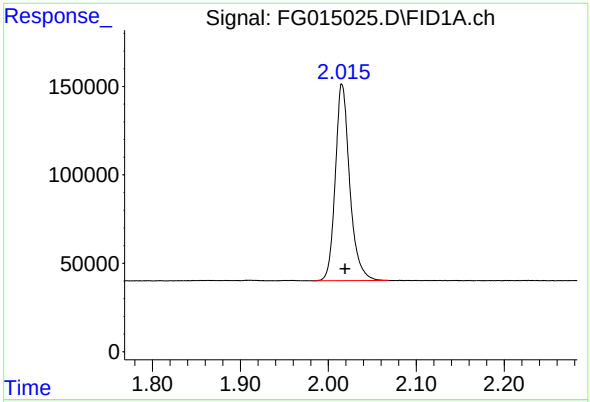
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
PB165807BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024





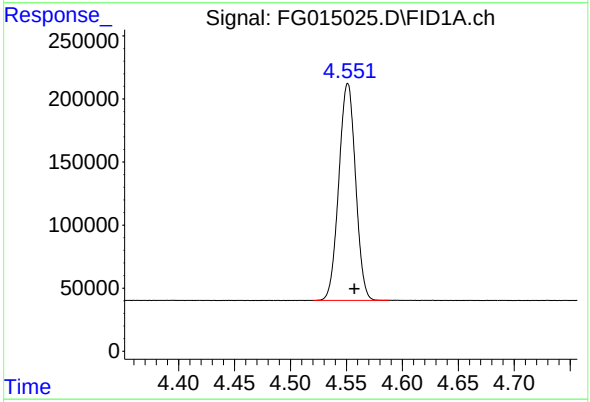
#1 N-OCTANE

R.T.: 2.016 min
Delta R.T.: -0.003 min
Response: 1265987
Conc: 10.31 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165807BS

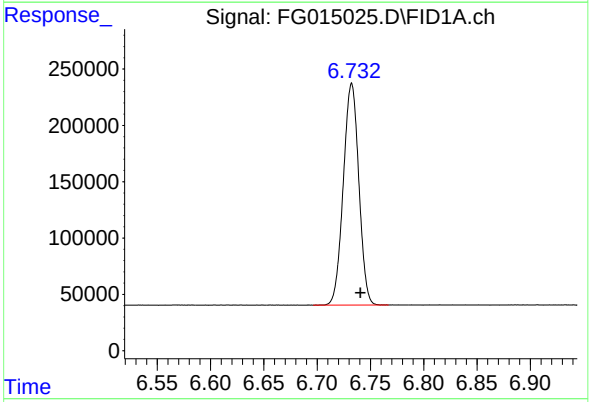
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



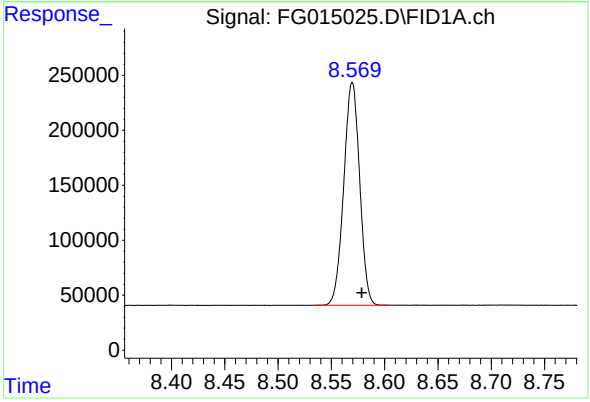
#2 N-DECANE

R.T.: 4.551 min
Delta R.T.: -0.006 min
Response: 1794918
Conc: 14.16 ug/ml



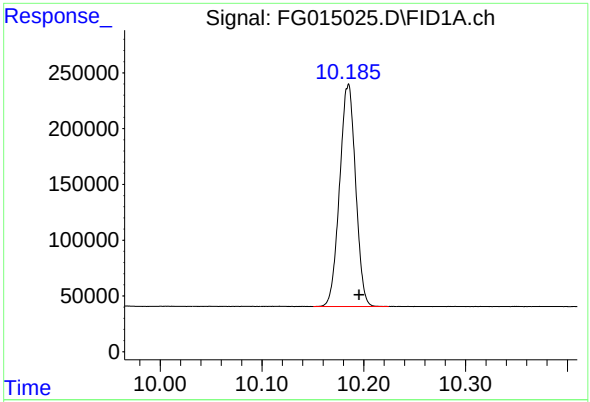
#3 N-DODECANE

R.T.: 6.732 min
Delta R.T.: -0.008 min
Response: 1993607
Conc: 14.87 ug/ml



#4 N-TETRADECANE

R.T.: 8.570 min
Delta R.T.: -0.009 min
Response: 2106495
Conc: 15.69 ug/ml



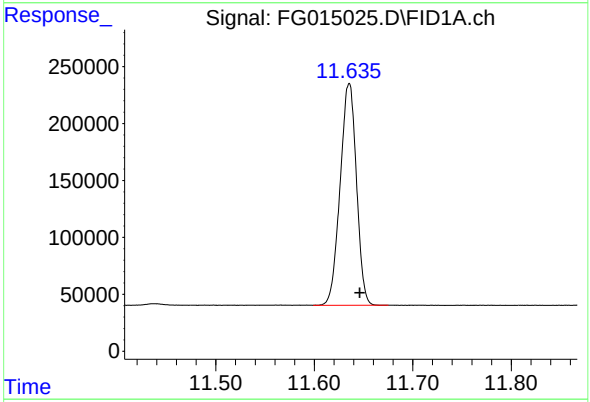
#5 N-HEXADECANE

R.T.: 10.185 min
Delta R.T.: -0.011 min
Response: 2175964
Conc: 15.53 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165807BS

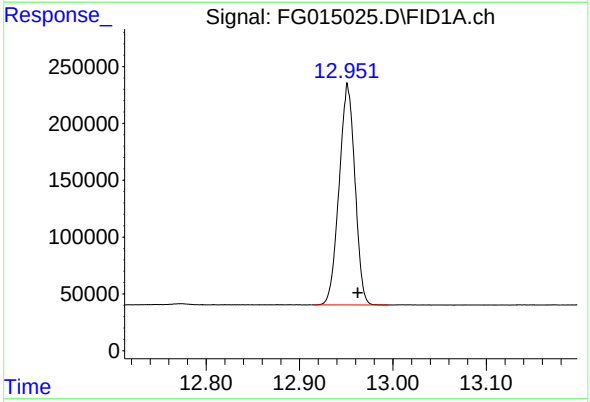
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



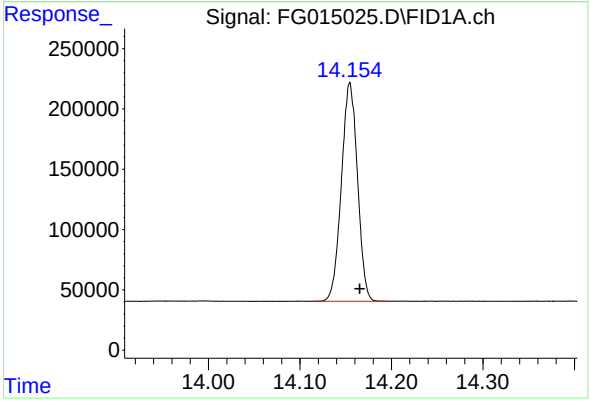
#6 N-OCTADECANE

R.T.: 11.635 min
Delta R.T.: -0.011 min
Response: 2246336
Conc: 15.21 ug/ml



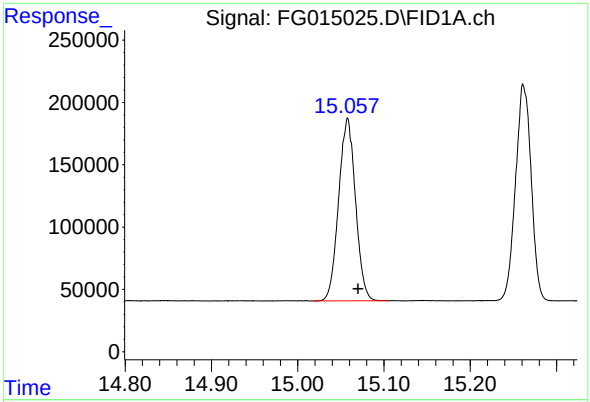
#7 N-EICOSANE

R.T.: 12.952 min
Delta R.T.: -0.011 min
Response: 2286089
Conc: 15.56 ug/ml



#8 N-DOCOSANE

R.T.: 14.154 min
Delta R.T.: -0.011 min
Response: 2215959
Conc: 15.07 ug/ml



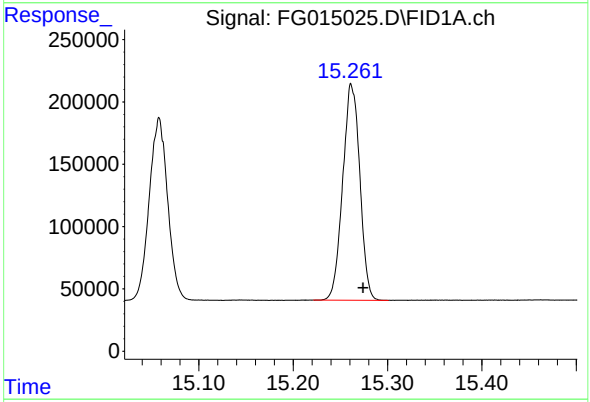
#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.058 min
Delta R.T.: -0.012 min
Response: 1989782
Conc: 14.89 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165807BS

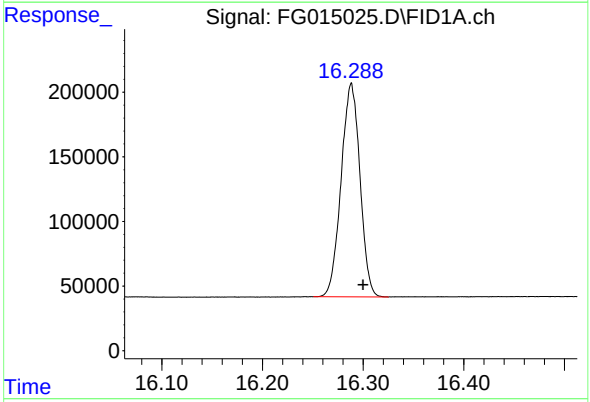
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



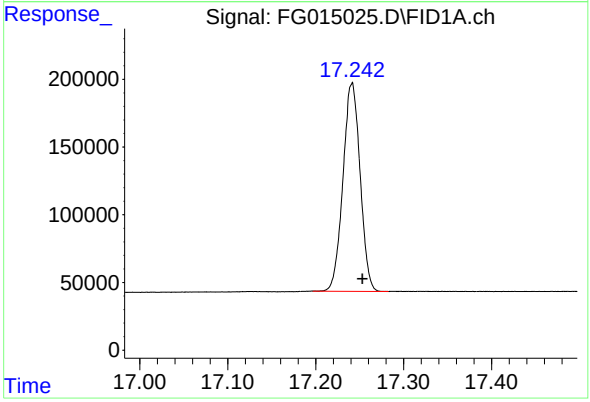
#10 N-TETRACOSANE

R.T.: 15.262 min
Delta R.T.: -0.012 min
Response: 2189399
Conc: 14.79 ug/ml



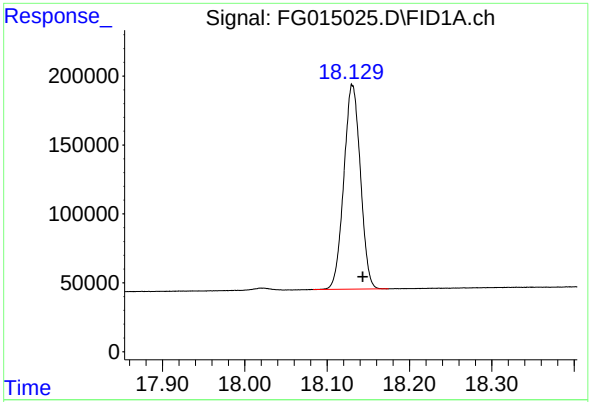
#11 N-HEXACOSANE

R.T.: 16.288 min
Delta R.T.: -0.012 min
Response: 2149912
Conc: 14.64 ug/ml



#12 N-OCTACOSANE

R.T.: 17.241 min
Delta R.T.: -0.012 min
Response: 2085348
Conc: 14.24 ug/ml



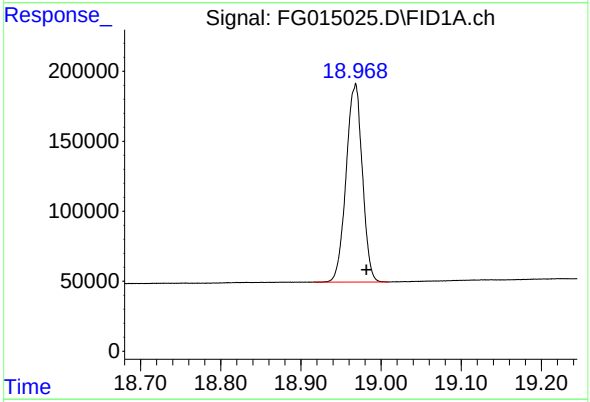
#13 N-TRIACONTANE

R.T.: 18.131 min
Delta R.T.: -0.013 min
Response: 2073701
Conc: 14.06 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165807BS

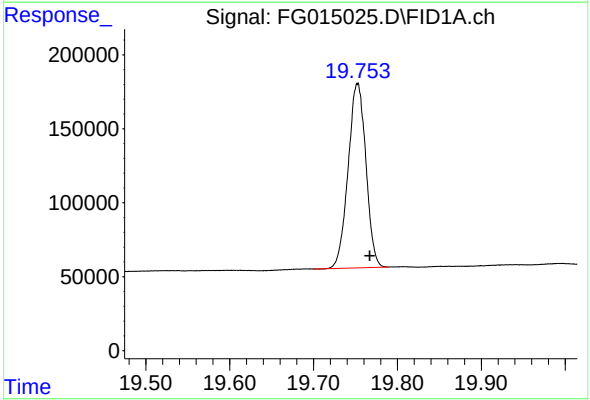
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



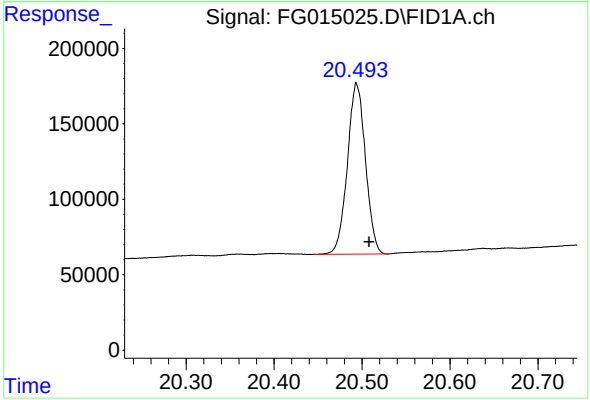
#14 N-DOTRIACONTANE

R.T.: 18.968 min
Delta R.T.: -0.014 min
Response: 1988161
Conc: 13.78 ug/ml



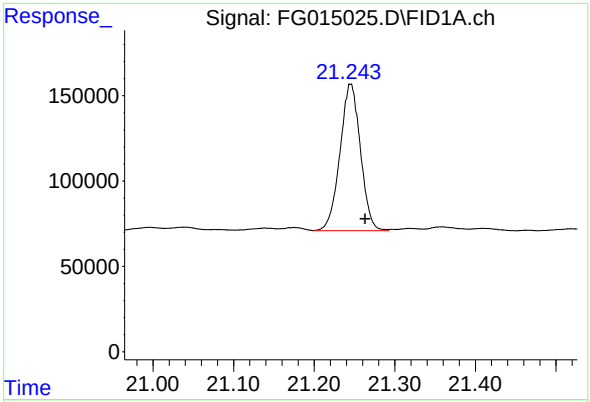
#15 N-TETRATRIACONTANE

R.T.: 19.752 min
Delta R.T.: -0.014 min
Response: 1832567
Conc: 14.11 ug/ml



#16 N-HEXATRIACONTANE

R.T.: 20.494 min
Delta R.T.: -0.014 min
Response: 1617859
Conc: 14.49 ug/ml



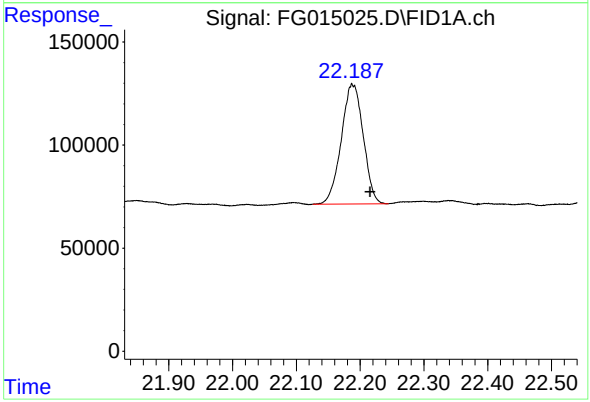
#17 N-OCTATRIACONTANE

R.T.: 21.243 min
Delta R.T.: -0.020 min
Response: 1516224
Conc: 14.82 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165807BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



#18 N-TETRACONTANE

R.T.: 22.187 min
Delta R.T.: -0.029 min
Response: 1388494
Conc: 14.48 ug/ml

Instrument :
FID_G
ClientSampleId :
PB165807BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG015025.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 16:12
Sample : PB165807BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.016	1.983	2.069	BB	111016	1265987	55.38%	3.631%
2	4.551	4.520	4.588	BB	172116	1794918	78.51%	5.148%
3	6.732	6.696	6.767	BB	197103	1993607	87.21%	5.718%
4	8.570	8.533	8.604	BB	202596	2106495	92.14%	6.041%
5	10.185	10.150	10.225	BB	198167	2175964	95.18%	6.241%
6	11.635	11.599	11.675	BB	194951	2246336	98.26%	6.442%
7	12.952	12.915	12.995	BB	194592	2286089	100.00%	6.556%
8	14.154	14.115	14.197	BB	181314	2215959	96.93%	6.355%
9	15.058	15.018	15.105	BB	146682	1989782	87.04%	5.707%
10	15.262	15.221	15.301	BB	173376	2189399	95.77%	6.279%
11	16.288	16.250	16.325	BB	164999	2149912	94.04%	6.166%
12	17.241	17.197	17.283	BB	153447	2085348	91.22%	5.981%
13	18.131	18.083	18.175	BB	147876	2073701	90.71%	5.947%
14	18.968	18.915	19.009	BB	141298	1988161	86.97%	5.702%
15	19.752	19.700	19.790	BB	124437	1832567	80.16%	5.256%
16	20.494	20.445	20.530	BB	113209	1617859	70.77%	4.640%
17	21.245	21.187	21.293	BB	84863	1467581	64.20%	4.209%
18	22.187	22.126	22.245	BB	58448	1388494	60.74%	3.982%

Sum of corrected areas: 34868161

FG121924.M Tue Dec 24 01:04:28 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	12/19/24
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	12/19/24
Client Sample ID:	SB-01-20241219-9.0-9.5MS	SDG No.:	P5361
Lab Sample ID:	P5361-02MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	87.1 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015020.D	1	12/23/24 08:35	12/23/24 13:23	PB165807

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	15200		365	3250	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	9.45		37 - 130	47%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015020.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 13:23
Operator : YP\AJ
Sample : P5361-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 24 00:28:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.058	1262473	9.446 ug/mlm
	Target Compounds			
1)	N-OCTANE	2.017	1346138	10.958 ug/ml
2)	N-DECANE	4.553	1662540	13.115 ug/ml
3)	N-DODECANE	6.735	1779024	13.267 ug/ml
4)	N-TETRADECANE	8.572	1946590	14.503 ug/ml
5)	N-HEXADECANE	10.187	1926365	13.746 ug/ml
6)	N-OCTADECANE	11.637	1980670	13.413 ug/ml
7)	N-EICOSANE	12.953	2002002	13.628 ug/ml
8)	N-DOCOSANE	14.157	1924993	13.087 ug/ml
10)	N-TETRACOSANE	15.263	1891202	12.779 ug/ml
11)	N-HEXACOSANE	16.289	1878562	12.795 ug/ml
12)	N-OCTACOSANE	17.242	1801331	12.301 ug/ml
13)	N-TRIACONTANE	18.132	1795413	12.176 ug/ml
14)	N-DOTRIACONTANE	18.967	1815327	12.580 ug/ml
15)	N-TETRATRIACONTANE	19.754	1786002	13.749 ug/mlm
16)	N-HEXATRIACONTANE	20.493	1732422	15.514 ug/mlm
17)	N-OCTATRIACONTANE	21.248	1637479	16.010 ug/mlm
18)	N-TETRACONTANE	22.188	1786173	18.632 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015020.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 13:23
Operator : YP\AJ
Sample : P5361-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

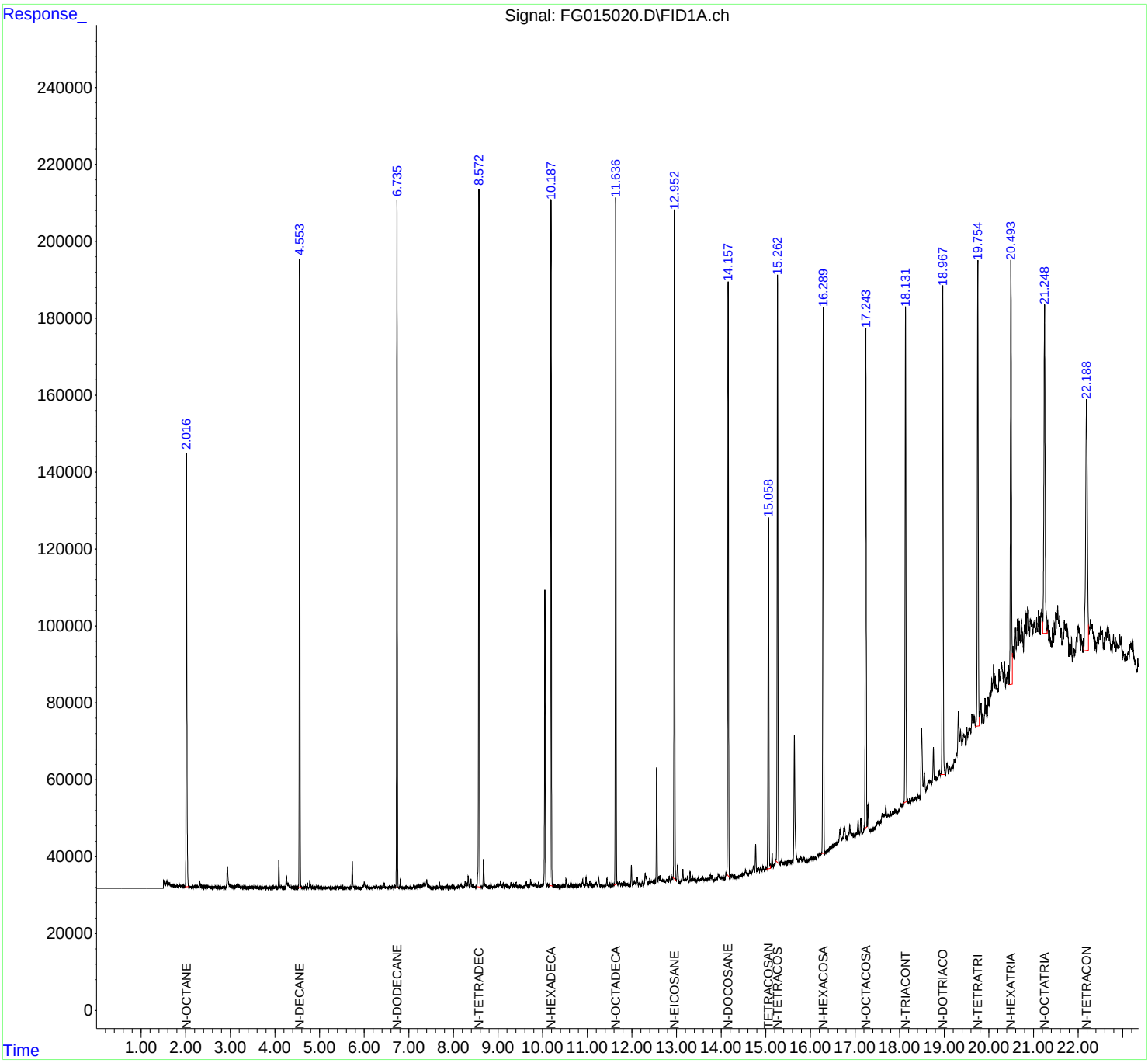
Integration File: autoint1.e
Quant Time: Dec 24 00:28:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

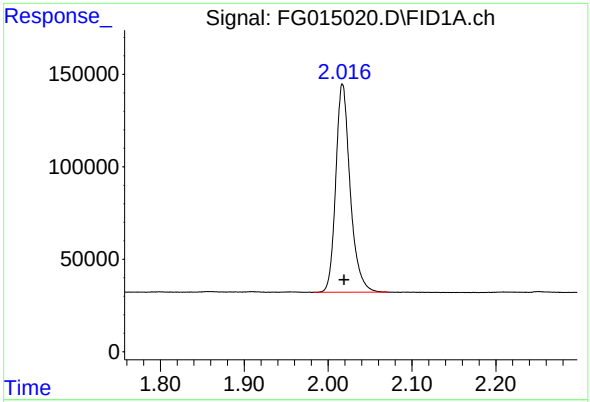
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024





#1 N-OCTANE

R.T.: 2.017 min
Delta R.T.: -0.002 min
Response: 1346138
Conc: 10.96 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
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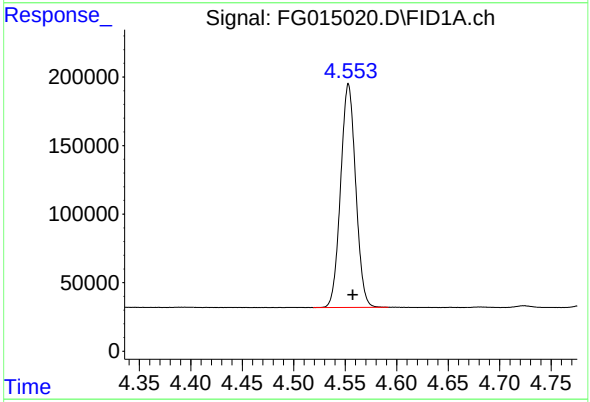
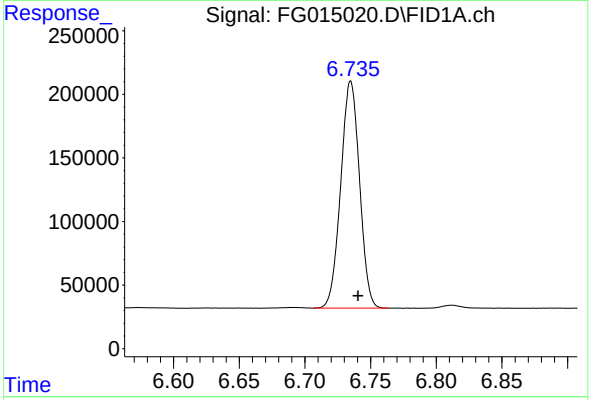


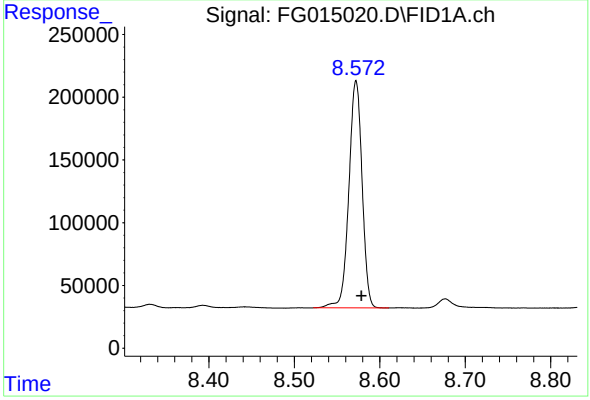
#2 N-DECANE

R.T.: 4.553 min
Delta R.T.: -0.004 min
Response: 1662540
Conc: 13.11 ug/ml



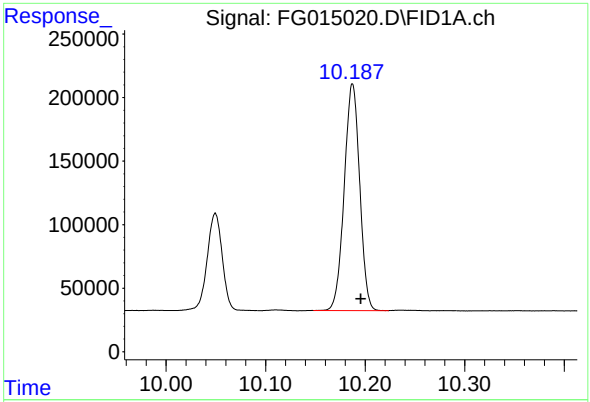
#3 N-DODECANE

R.T.: 6.735 min
Delta R.T.: -0.006 min
Response: 1779024
Conc: 13.27 ug/ml



#4 N-TETRADECANE

R.T.: 8.572 min
Delta R.T.: -0.006 min
Response: 1946590
Conc: 14.50 ug/ml



#5 N-HEXADECANE

R.T.: 10.187 min
Delta R.T.: -0.008 min
Response: 1926365
Conc: 13.75 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
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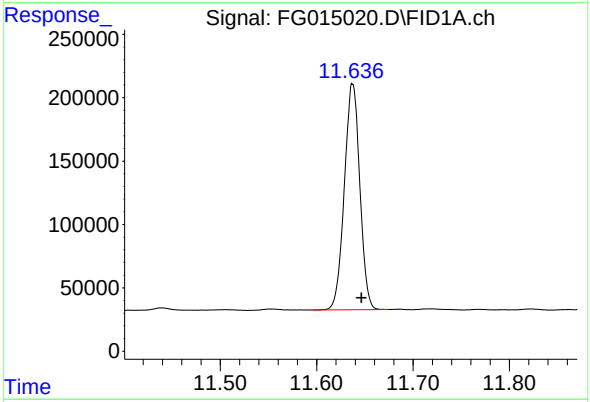
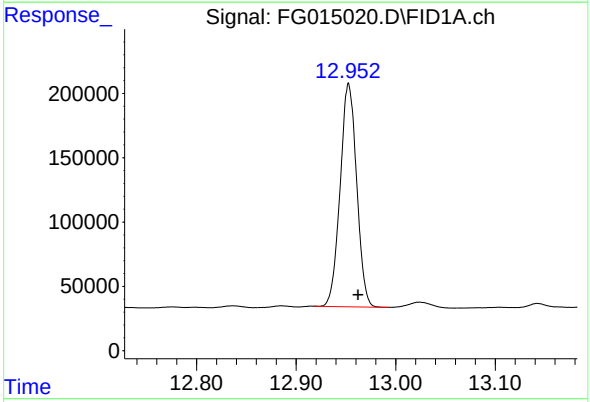


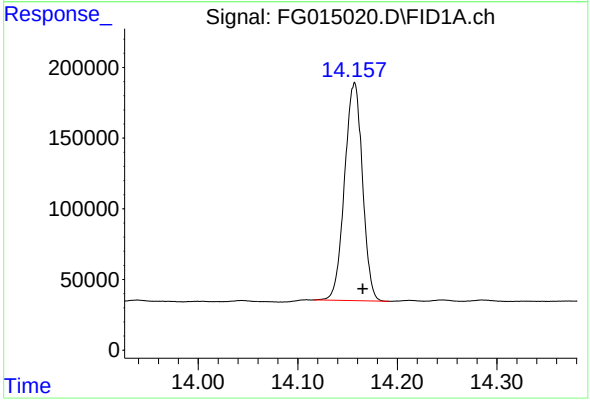
#6 N-OCTADECANE

R.T.: 11.637 min
Delta R.T.: -0.009 min
Response: 1980670
Conc: 13.41 ug/ml



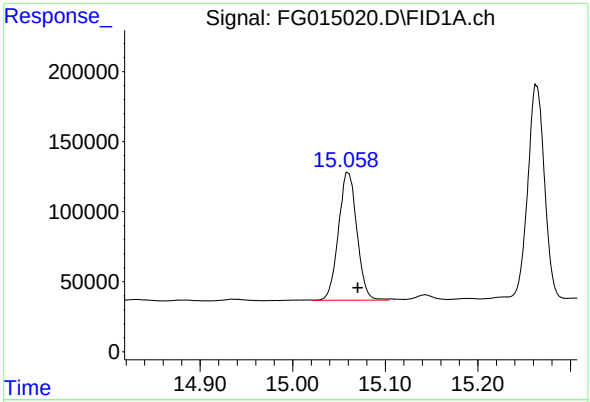
#7 N-EICOSANE

R.T.: 12.953 min
Delta R.T.: -0.010 min
Response: 2002002
Conc: 13.63 ug/ml



#8 N-DOCOSANE

R.T.: 14.157 min
Delta R.T.: -0.008 min
Response: 1924993
Conc: 13.09 ug/ml



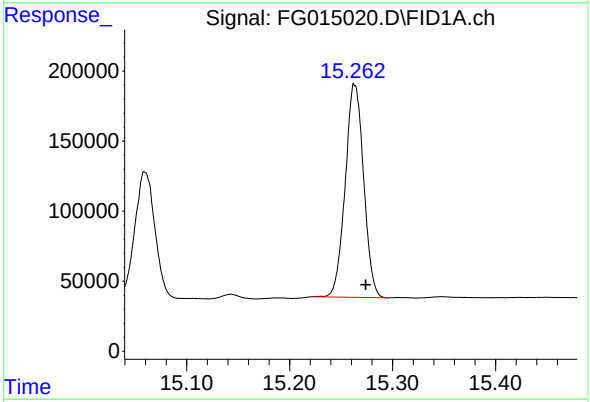
#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.058 min
Delta R.T.: -0.012 min
Response: 1262473
Conc: 9.45 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

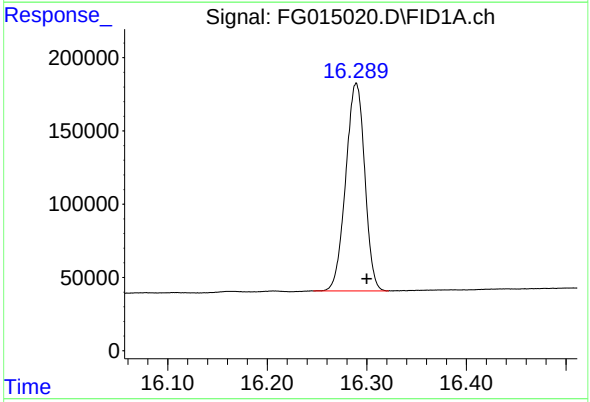
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



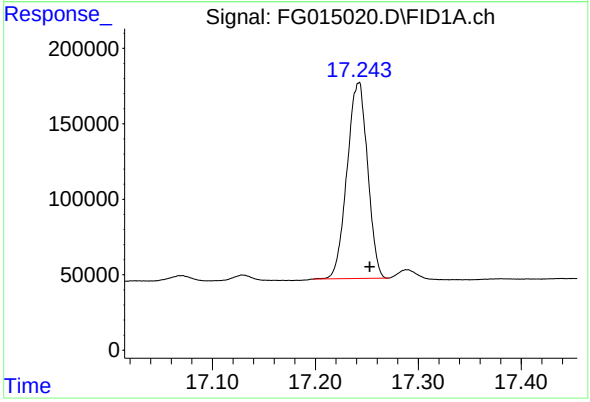
#10 N-TETRACOSANE

R.T.: 15.263 min
Delta R.T.: -0.011 min
Response: 1891202
Conc: 12.78 ug/ml



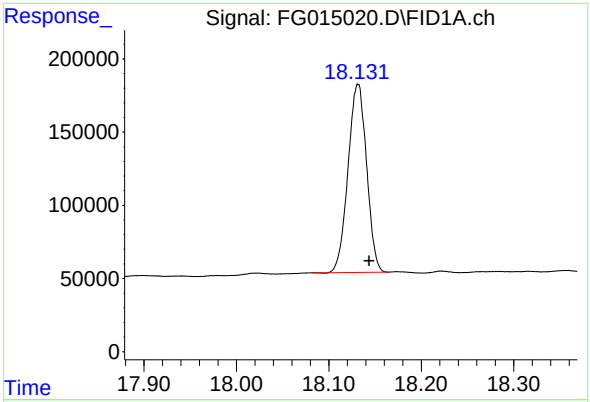
#11 N-HEXACOSANE

R.T.: 16.289 min
Delta R.T.: -0.011 min
Response: 1878562
Conc: 12.79 ug/ml



#12 N-OCTACOSANE

R.T.: 17.242 min
Delta R.T.: -0.011 min
Response: 1801331
Conc: 12.30 ug/ml



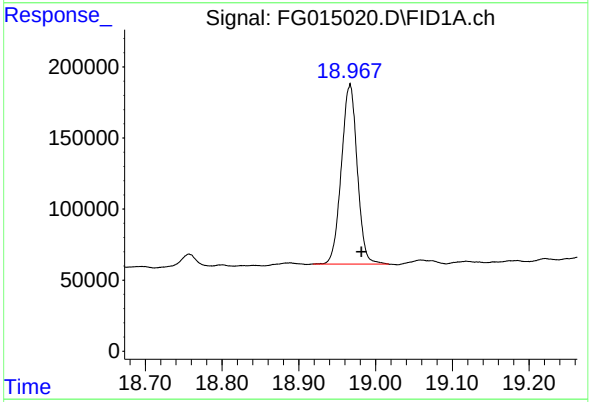
#13 N-TRIACONTANE

R.T.: 18.132 min
Delta R.T.: -0.012 min
Response: 1795413
Conc: 12.18 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

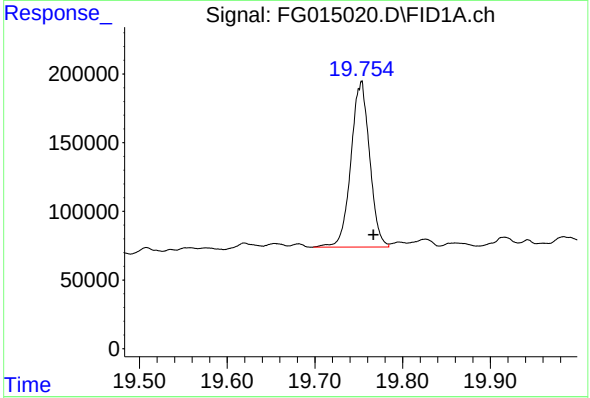
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



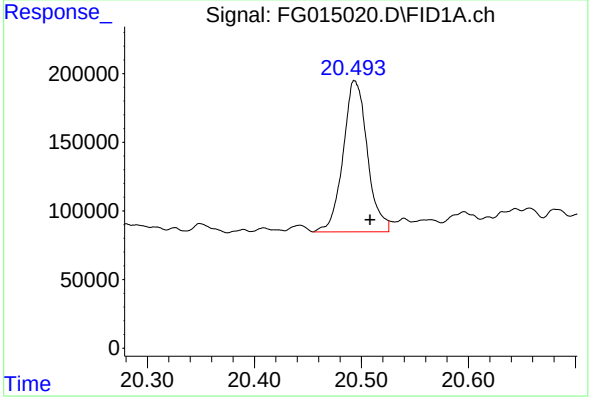
#14 N-DOTRIACONTANE

R.T.: 18.967 min
Delta R.T.: -0.015 min
Response: 1815327
Conc: 12.58 ug/ml



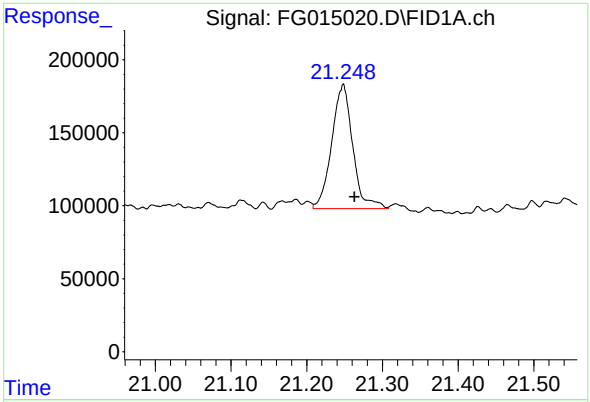
#15 N-TETRATRIACONTANE

R.T.: 19.754 min
Delta R.T.: -0.013 min
Response: 1786002
Conc: 13.75 ug/ml m



#16 N-HEXATRIACONTANE

R.T.: 20.493 min
Delta R.T.: -0.015 min
Response: 1732422
Conc: 15.51 ug/ml m



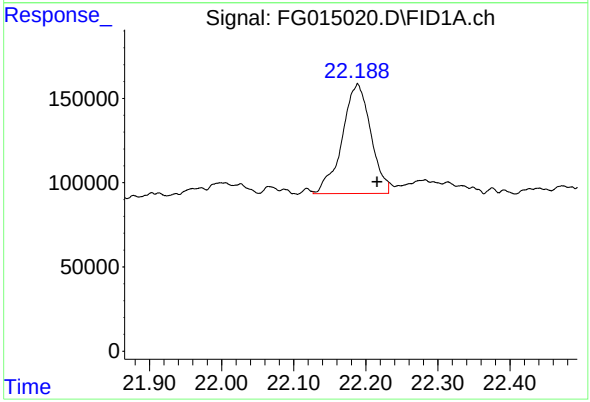
#17 N-OCTATRIACONTANE

R.T.: 21.248 min
Delta R.T.: -0.015 min
Response: 1637479
Conc: 16.01 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



#18 N-TETRACONTANE

R.T.: 22.188 min
Delta R.T.: -0.028 min
Response: 1786173
Conc: 18.63 ug/ml m

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG015020.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 13:23
Sample : P5361-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.909	1.900	1.931	BV	189	1292	0.05%	0.002%
2	1.936	1.931	1.941	PV	72	251	0.01%	0.000%
3	1.956	1.941	1.973	PV	220	2237	0.09%	0.004%
4	1.977	1.973	1.982	VV	122	239	0.01%	0.000%
5	2.017	1.982	2.086	PV	112550	1352134	55.51%	2.481%
6	2.091	2.086	2.163	VV	198	4908	0.20%	0.009%
7	2.166	2.163	2.170	VV	114	293	0.01%	0.001%
8	2.174	2.170	2.180	PV	150	341	0.01%	0.001%
9	2.209	2.180	2.239	VV	371	7689	0.32%	0.014%
10	2.251	2.239	2.282	VV	552	8568	0.35%	0.016%
11	2.294	2.282	2.299	VV	215	1632	0.07%	0.003%
12	2.314	2.299	2.412	VV	1590	29258	1.20%	0.054%
13	2.414	2.412	2.428	VV	131	935	0.04%	0.002%
14	2.439	2.428	2.445	VV	192	1511	0.06%	0.003%
15	2.456	2.445	2.468	VV	286	2661	0.11%	0.005%
16	2.490	2.468	2.500	VV	287	4606	0.19%	0.008%
17	2.506	2.500	2.570	VV	280	4565	0.19%	0.008%
18	2.584	2.570	2.589	VV	137	846	0.03%	0.002%
19	2.595	2.589	2.603	VV	119	890	0.04%	0.002%
20	2.607	2.603	2.611	VV	151	596	0.02%	0.001%
21	2.619	2.611	2.634	VV	148	1521	0.06%	0.003%
22	2.647	2.634	2.657	PV	221	1784	0.07%	0.003%
23	2.664	2.657	2.691	VV	198	2429	0.10%	0.004%
24	2.697	2.691	2.706	VV	115	607	0.02%	0.001%
25	2.721	2.706	2.757	VV	320	6088	0.25%	0.011%
26	2.765	2.757	2.777	VV	99	1104	0.05%	0.002%
27	2.789	2.777	2.814	VV	202	3237	0.13%	0.006%
28	2.831	2.814	2.835	VV	208	1950	0.08%	0.004%
29	2.840	2.835	2.852	VV	255	1938	0.08%	0.004%
30	2.857	2.852	2.862	VV	229	1150	0.05%	0.002%
31	2.865	2.862	2.883	VV	197	1859	0.08%	0.003%

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual IntegrationsAPPROVED

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rteres

32	2.933	2.883	2.997	VV	5610	109050	4.48%	0.200%
33	3.007	2.997	3.054	VV	733	1657		
34	3.058	3.054	3.081	VV	355	468		
35	3.090	3.081	3.105	VV	379	420		
36	3.126	3.105	3.147	VV	563	1108		
37	3.162	3.147	3.203	VV	944	19820	0.81%	0.036%
38	3.210	3.203	3.229	VV	359	4029	0.17%	0.007%
39	3.244	3.229	3.256	VV	256	3533	0.15%	0.006%
40	3.270	3.256	3.275	VV	363	2808	0.12%	0.005%
41	3.281	3.275	3.301	VV	311	4057	0.17%	0.007%
42	3.306	3.301	3.314	VV	254	1798	0.07%	0.003%
43	3.338	3.314	3.362	VV	238	4902	0.20%	0.009%
44	3.367	3.362	3.380	VV	153	1437	0.06%	0.003%
45	3.396	3.380	3.430	VV	194	3986	0.16%	0.007%
46	3.473	3.430	3.505	VV	258	7412	0.30%	0.014%
47	3.512	3.505	3.520	VV	225	1575	0.06%	0.003%
48	3.531	3.520	3.536	VV	223	1781	0.07%	0.003%
49	3.544	3.536	3.550	VV	245	1530	0.06%	0.003%
50	3.575	3.550	3.622	VV	314	8713	0.36%	0.016%
51	3.649	3.622	3.677	VV	294	6752	0.28%	0.012%
52	3.699	3.677	3.703	VV	216	2369	0.10%	0.004%
53	3.710	3.703	3.745	VV	313	5910	0.24%	0.011%
54	3.749	3.745	3.760	VV	246	1411	0.06%	0.003%
55	3.771	3.760	3.777	VV	206	1688	0.07%	0.003%
56	3.783	3.777	3.810	VV	210	2951	0.12%	0.005%
57	3.813	3.810	3.837	VV	137	1953	0.08%	0.004%
58	3.866	3.837	3.916	VV	269	7169	0.29%	0.013%
59	3.919	3.916	3.942	VV	214	1684	0.07%	0.003%
60	3.959	3.942	3.990	VV	426	6226	0.26%	0.011%
61	4.011	3.990	4.039	VV	276	4077	0.17%	0.007%
62	4.050	4.039	4.056	VV	185	1090	0.04%	0.002%
63	4.087	4.056	4.130	VV	7429	78751	3.23%	0.144%
64	4.142	4.130	4.175	VV	530	8679	0.36%	0.016%
65	4.194	4.175	4.223	VV	241	4545	0.19%	0.008%
66	4.256	4.223	4.282	PV	2785	46416	1.91%	0.085%
67	4.294	4.282	4.376	VV	1161	29648	1.22%	0.054%
68	4.395	4.376	4.412	VV	415	6435	0.26%	0.012%
69	4.415	4.412	4.432	VV	295	2485	0.10%	0.005%
70	4.443	4.432	4.460	VV	249	3116	0.13%	0.006%
71	4.463	4.460	4.468	VV	173	771	0.03%	0.001%
72	4.472	4.468	4.477	VV	232	822	0.03%	0.002%
73	4.487	4.477	4.490	VV	200	1297	0.05%	0.002%
74	4.499	4.490	4.519	VV	261	3288	0.13%	0.006%
75	4.553	4.519	4.621	VV	163506	1680179	68.98%	3.083%
76	4.626	4.621	4.648	VV	266	3559	0.15%	0.007%
77	4.652	4.648	4.666	VV	324	2566	0.11%	0.005%
78	4.680	4.666	4.702	VV	565	7741	0.32%	0.014%
79	4.723	4.702	4.763	VV	1464	20292	0.83%	0.037%

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

rteres

80	4.782	4.763	4.831	VV	2156	32751	1.34%	0.060%
81	4.836	4.831	4.845	VV	294	212		
82	4.850	4.845	4.894	VV	248	598		
83	4.900	4.894	4.908	VV	230	179		
84	4.943	4.908	4.957	VV	543	1173		
85	4.967	4.957	4.996	VV	425	7201	0.30%	0.013%
86	5.003	4.996	5.036	VV	250	4217	0.17%	0.008%
87	5.056	5.036	5.082	VV	239	4836	0.20%	0.009%
88	5.090	5.082	5.094	VV	195	1141	0.05%	0.002%
89	5.101	5.094	5.114	VV	182	1963	0.08%	0.004%
90	5.115	5.114	5.140	VV	206	2162	0.09%	0.004%
91	5.143	5.140	5.155	VV	199	1504	0.06%	0.003%
92	5.158	5.155	5.167	VV	154	880	0.04%	0.002%
93	5.171	5.167	5.176	VV	181	806	0.03%	0.001%
94	5.207	5.176	5.234	VV	408	9389	0.39%	0.017%
95	5.241	5.234	5.259	VV	630	2587	0.11%	0.005%
96	5.265	5.259	5.280	VV	138	1444	0.06%	0.003%
97	5.283	5.280	5.297	VV	144	1113	0.05%	0.002%
98	5.313	5.297	5.337	VV	311	4354	0.18%	0.008%
99	5.341	5.337	5.344	VV	62	209	0.01%	0.000%
100	5.379	5.344	5.386	VV	283	4157	0.17%	0.008%
101	5.399	5.386	5.425	VV	489	6537	0.27%	0.012%
102	5.442	5.425	5.457	VV	454	5580	0.23%	0.010%
103	5.460	5.457	5.477	VV	335	2594	0.11%	0.005%
104	5.500	5.477	5.528	VV	965	14648	0.60%	0.027%
105	5.538	5.528	5.550	VV	343	2109	0.09%	0.004%
106	5.563	5.550	5.584	VV	324	3807	0.16%	0.007%
107	5.604	5.584	5.616	VV	400	4435	0.18%	0.008%
108	5.629	5.616	5.671	VV	378	5762	0.24%	0.011%
109	5.677	5.671	5.681	VV	50	214	0.01%	0.000%
110	5.698	5.681	5.713	PV	555	5974	0.25%	0.011%
111	5.733	5.713	5.794	VV	7119	81441	3.34%	0.149%
112	5.810	5.794	5.841	VV	431	6539	0.27%	0.012%
113	5.845	5.841	5.851	VV	150	529	0.02%	0.001%
114	5.859	5.851	5.873	VV	166	1380	0.06%	0.003%
115	5.890	5.873	5.904	VV	194	1306	0.05%	0.002%
116	5.913	5.904	5.939	VV	101	1336	0.05%	0.002%
117	5.969	5.939	5.980	VV	704	10219	0.42%	0.019%
118	6.002	5.980	6.025	VV	1765	26293	1.08%	0.048%
119	6.028	6.025	6.050	VV	694	7238	0.30%	0.013%
120	6.069	6.050	6.090	VV	528	8745	0.36%	0.016%
121	6.094	6.090	6.100	VV	201	1198	0.05%	0.002%
122	6.116	6.100	6.130	VV	300	3688	0.15%	0.007%
123	6.134	6.130	6.157	VV	222	2793	0.11%	0.005%
124	6.170	6.157	6.178	VV	263	2650	0.11%	0.005%
125	6.182	6.178	6.195	VV	264	2202	0.09%	0.004%
126	6.210	6.195	6.224	VV	450	5726	0.24%	0.011%

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127	6.235	6.224	6.246	VV	479	4804	0.20%	0.009%
128	6.273	6.246	6.314	VV	705	1645		
129	6.316	6.314	6.319	VV	315	88		
130	6.324	6.319	6.345	VV	350	350		
131	6.378	6.345	6.383	VV	399	691		
132	6.388	6.383	6.412	VV	365	4655	0.19%	0.009%
133	6.425	6.412	6.431	VV	394	3490	0.14%	0.006%
134	6.448	6.431	6.479	VV	1465	18865	0.77%	0.035%
135	6.500	6.479	6.531	VV	401	7372	0.30%	0.014%
136	6.539	6.531	6.551	VV	262	2589	0.11%	0.005%
137	6.573	6.551	6.610	VV	689	13605	0.56%	0.025%
138	6.625	6.610	6.639	VV	350	4393	0.18%	0.008%
139	6.641	6.639	6.648	VV	263	1205	0.05%	0.002%
140	6.649	6.648	6.667	VV	327	2277	0.09%	0.004%
141	6.692	6.667	6.707	VV	756	10832	0.44%	0.020%
142	6.735	6.707	6.787	VV	178969	1788576	73.43%	3.282%
143	6.812	6.787	6.870	VV	2488	31000	1.27%	0.057%
144	6.893	6.870	6.901	VV	211	3102	0.13%	0.006%
145	6.937	6.901	6.954	VV	326	6213	0.26%	0.011%
146	6.963	6.954	6.976	VV	296	3052	0.13%	0.006%
147	6.979	6.976	6.987	VV	121	691	0.03%	0.001%
148	7.009	6.987	7.021	VV	259	3689	0.15%	0.007%
149	7.026	7.021	7.030	VV	222	1000	0.04%	0.002%
150	7.053	7.030	7.071	VV	270	5944	0.24%	0.011%
151	7.073	7.071	7.081	VV	306	1181	0.05%	0.002%
152	7.108	7.081	7.128	VV	724	11490	0.47%	0.021%
153	7.135	7.128	7.161	VV	368	4859	0.20%	0.009%
154	7.175	7.161	7.205	VV	417	8610	0.35%	0.016%
155	7.224	7.205	7.249	VV	764	14674	0.60%	0.027%
156	7.268	7.249	7.300	VV	756	19833	0.81%	0.036%
157	7.335	7.300	7.356	VV	1104	29647	1.22%	0.054%
158	7.362	7.356	7.369	VV	745	5870	0.24%	0.011%
159	7.400	7.369	7.427	VV	2217	42835	1.76%	0.079%
160	7.437	7.427	7.452	VV	756	9449	0.39%	0.017%
161	7.458	7.452	7.482	VV	631	6326	0.26%	0.012%
162	7.486	7.482	7.499	VV	176	1459	0.06%	0.003%
163	7.501	7.499	7.510	VV	205	808	0.03%	0.001%
164	7.514	7.510	7.539	VV	161	1810	0.07%	0.003%
165	7.571	7.539	7.595	VV	269	5199	0.21%	0.010%
166	7.606	7.595	7.616	VV	335	2936	0.12%	0.005%
167	7.629	7.616	7.651	VV	381	5386	0.22%	0.010%
168	7.656	7.651	7.661	VV	231	1061	0.04%	0.002%
169	7.687	7.661	7.709	VV	1519	18964	0.78%	0.035%
170	7.722	7.709	7.729	VV	165	1534	0.06%	0.003%
171	7.748	7.729	7.753	VV	253	2795	0.11%	0.005%
172	7.758	7.753	7.764	VV	239	1328	0.05%	0.002%
173	7.776	7.764	7.790	VV	291	3535	0.15%	0.006%
174	7.810	7.790	7.834	VV	392	7062	0.29%	0.013%

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175	7.860	7.834	7.885	VV	613	10260	0.42%	0.019%
176	7.903	7.885	7.915	VV	207	233		
177	7.935	7.915	7.941	VV	325	355		
178	7.956	7.941	7.996	VV	559	1203		
179	8.004	7.996	8.023	VV	325	341		
180	8.037	8.023	8.043	PV	143	1234	0.05%	0.002%
181	8.050	8.043	8.065	VV	194	1984	0.08%	0.004%
182	8.086	8.065	8.092	VV	303	3415	0.14%	0.006%
183	8.111	8.092	8.130	VV	501	8667	0.36%	0.016%
184	8.172	8.130	8.200	VV	955	25741	1.06%	0.047%
185	8.217	8.200	8.240	VV	520	9744	0.40%	0.018%
186	8.263	8.240	8.281	VV	1876	24039	0.99%	0.044%
187	8.296	8.281	8.312	VV	1078	16156	0.66%	0.030%
188	8.331	8.312	8.353	VV	3200	41870	1.72%	0.077%
189	8.360	8.353	8.372	VV	613	6066	0.25%	0.011%
190	8.393	8.372	8.423	VV	2443	35878	1.47%	0.066%
191	8.441	8.423	8.488	VV	1177	24862	1.02%	0.046%
192	8.507	8.488	8.520	VV	440	6100	0.25%	0.011%
193	8.572	8.520	8.611	VV	181608	1966246	80.72%	3.608%
194	8.624	8.611	8.645	VV	410	7078	0.29%	0.013%
195	8.677	8.645	8.760	VV	7614	112845	4.63%	0.207%
196	8.770	8.760	8.778	VV	338	2739	0.11%	0.005%
197	8.804	8.778	8.814	VV	289	5387	0.22%	0.010%
198	8.841	8.814	8.879	VV	1319	21295	0.87%	0.039%
199	8.897	8.879	8.917	VV	464	6910	0.28%	0.013%
200	8.936	8.917	8.955	VV	477	6698	0.27%	0.012%
201	8.973	8.955	8.988	VV	684	10268	0.42%	0.019%
202	8.997	8.988	9.009	VV	609	6642	0.27%	0.012%
203	9.025	9.009	9.036	VV	927	11477	0.47%	0.021%
204	9.055	9.036	9.095	VV	1544	31644	1.30%	0.058%
205	9.117	9.095	9.146	VV	1392	22144	0.91%	0.041%
206	9.178	9.146	9.217	VV	788	24043	0.99%	0.044%
207	9.231	9.217	9.244	VV	550	7018	0.29%	0.013%
208	9.290	9.244	9.321	VV	1469	29929	1.23%	0.055%
209	9.340	9.321	9.376	VV	920	18701	0.77%	0.034%
210	9.402	9.376	9.442	VV	1521	25241	1.04%	0.046%
211	9.476	9.442	9.480	VV	642	10596	0.44%	0.019%
212	9.486	9.480	9.517	VV	700	9874	0.41%	0.018%
213	9.535	9.517	9.560	VV	614	7746	0.32%	0.014%
214	9.580	9.560	9.597	PV	501	6725	0.28%	0.012%
215	9.632	9.597	9.651	VV	1556	26713	1.10%	0.049%
216	9.664	9.651	9.687	VV	923	14544	0.60%	0.027%
217	9.729	9.687	9.741	VV	1755	28275	1.16%	0.052%
218	9.747	9.741	9.765	VV	1000	12121	0.50%	0.022%
219	9.783	9.765	9.801	VV	995	15867	0.65%	0.029%
220	9.825	9.801	9.851	VV	1044	20644	0.85%	0.038%
221	9.854	9.851	9.884	VV	399	6258	0.26%	0.011%

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222	9.910	9.884	9.944	VV	1504	23594	0.97%	0.043%
223	9.966	9.944	9.977	VV	622	895		
224	9.987	9.977	10.007	VV	755	1087		
225	10.049	10.007	10.095	VV	77034	83026		
226	10.110	10.095	10.132	VV	999	1480		
227	10.187	10.132	10.224	VV	179036	1953053	80.18%	3.584%
228	10.236	10.224	10.271	VV	750	15255	0.63%	0.028%
229	10.280	10.271	10.301	VV	408	5538	0.23%	0.010%
230	10.326	10.301	10.342	VV	316	5845	0.24%	0.011%
231	10.353	10.342	10.374	VV	349	4944	0.20%	0.009%
232	10.378	10.374	10.383	VV	254	1194	0.05%	0.002%
233	10.391	10.383	10.420	VV	291	4871	0.20%	0.009%
234	10.432	10.420	10.440	VV	249	2477	0.10%	0.005%
235	10.459	10.440	10.476	VV	627	8272	0.34%	0.015%
236	10.493	10.476	10.499	VV	445	4688	0.19%	0.009%
237	10.524	10.499	10.546	VV	1869	26565	1.09%	0.049%
238	10.577	10.546	10.596	VV	465	10601	0.44%	0.019%
239	10.606	10.596	10.612	VV	350	2914	0.12%	0.005%
240	10.632	10.612	10.684	VV	1422	25514	1.05%	0.047%
241	10.701	10.684	10.734	VV	605	11676	0.48%	0.021%
242	10.748	10.734	10.765	VV	491	6309	0.26%	0.012%
243	10.783	10.765	10.801	VV	430	6737	0.28%	0.012%
244	10.825	10.801	10.841	VV	936	13044	0.54%	0.024%
245	10.853	10.841	10.867	VV	505	6234	0.26%	0.011%
246	10.895	10.867	10.916	VV	1663	29318	1.20%	0.054%
247	10.930	10.916	10.952	VV	692	11924	0.49%	0.022%
248	10.973	10.952	10.996	VV	2579	33883	1.39%	0.062%
249	11.004	10.996	11.009	VV	500	3665	0.15%	0.007%
250	11.013	11.009	11.035	VV	500	5888	0.24%	0.011%
251	11.056	11.035	11.080	VV	1463	22610	0.93%	0.041%
252	11.086	11.080	11.111	VV	643	8447	0.35%	0.015%
253	11.123	11.111	11.139	VV	356	4614	0.19%	0.008%
254	11.152	11.139	11.167	VV	440	5930	0.24%	0.011%
255	11.202	11.167	11.225	VV	1085	22935	0.94%	0.042%
256	11.256	11.225	11.288	VV	2192	34743	1.43%	0.064%
257	11.303	11.288	11.339	VV	415	7242	0.30%	0.013%
258	11.359	11.339	11.375	VV	200	2824	0.12%	0.005%
259	11.390	11.375	11.402	VV	269	2439	0.10%	0.004%
260	11.406	11.402	11.411	VV	139	799	0.03%	0.001%
261	11.439	11.411	11.476	VV	1954	27463	1.13%	0.050%
262	11.481	11.476	11.485	VV	314	1241	0.05%	0.002%
263	11.506	11.485	11.528	VV	626	9149	0.38%	0.017%
264	11.553	11.528	11.579	PV	1098	16296	0.67%	0.030%
265	11.584	11.579	11.596	VV	383	3365	0.14%	0.006%
266	11.637	11.596	11.674	VV	178376	2002770	82.22%	3.675%
267	11.686	11.674	11.701	VV	839	10764	0.44%	0.020%
268	11.717	11.701	11.754	VV	1164	22756	0.93%	0.042%
269	11.768	11.754	11.784	VV	723	9037	0.37%	0.017%

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270	11.794	11.784	11.799	VV	384	3103	0.13%	0.006%
271	11.822	11.799	11.844	VV	1004	1468		
272	11.862	11.844	11.875	VV	523	634		
273	11.892	11.875	11.916	VV	746	973		
274	11.939	11.916	11.957	VV	318	450		
275	11.988	11.957	12.013	VV	5380	60616	2.49%	0.111%
276	12.054	12.013	12.074	VV	1329	22012	0.90%	0.040%
277	12.087	12.074	12.099	VV	583	7014	0.29%	0.013%
278	12.121	12.099	12.147	VV	2123	28203	1.16%	0.052%
279	12.166	12.147	12.191	VV	544	7185	0.29%	0.013%
280	12.195	12.191	12.216	VV	207	1501	0.06%	0.003%
281	12.234	12.216	12.264	VV	943	13475	0.55%	0.025%
282	12.298	12.264	12.316	PV	3092	49156	2.02%	0.090%
283	12.327	12.316	12.362	VV	2345	32815	1.35%	0.060%
284	12.373	12.362	12.386	VV	497	5888	0.24%	0.011%
285	12.403	12.386	12.421	VV	1684	23767	0.98%	0.044%
286	12.444	12.421	12.455	VV	817	14043	0.58%	0.026%
287	12.470	12.455	12.497	VV	941	16138	0.66%	0.030%
288	12.517	12.497	12.531	VV	1042	12502	0.51%	0.023%
289	12.556	12.531	12.584	VV	30423	339689	13.95%	0.623%
290	12.604	12.584	12.621	VV	1947	33608	1.38%	0.062%
291	12.636	12.621	12.655	VV	2195	30626	1.26%	0.056%
292	12.664	12.655	12.676	VV	977	10353	0.43%	0.019%
293	12.691	12.676	12.702	VV	899	13301	0.55%	0.024%
294	12.716	12.702	12.754	VV	1024	21492	0.88%	0.039%
295	12.776	12.754	12.789	VV	1150	16699	0.69%	0.031%
296	12.798	12.789	12.812	VV	890	10001	0.41%	0.018%
297	12.837	12.812	12.857	VV	1962	30939	1.27%	0.057%
298	12.885	12.857	12.902	VV	1973	31123	1.28%	0.057%
299	12.953	12.902	12.992	VV	174815	2064058	84.74%	3.787%
300	13.024	12.992	13.066	VV	4668	80450	3.30%	0.148%
301	13.083	13.066	13.087	PV	237	2010	0.08%	0.004%
302	13.105	13.087	13.121	VV	611	8829	0.36%	0.016%
303	13.142	13.121	13.177	VV	3565	51509	2.11%	0.095%
304	13.193	13.177	13.216	VV	1247	20391	0.84%	0.037%
305	13.247	13.216	13.277	VV	1684	29392	1.21%	0.054%
306	13.304	13.277	13.327	VV	2760	34430	1.41%	0.063%
307	13.351	13.327	13.381	VV	1219	26841	1.10%	0.049%
308	13.396	13.381	13.437	VV	705	16037	0.66%	0.029%
309	13.491	13.437	13.520	VV	1060	23736	0.97%	0.044%
310	13.541	13.520	13.554	VV	717	9772	0.40%	0.018%
311	13.585	13.554	13.624	VV	1227	28814	1.18%	0.053%
312	13.638	13.624	13.656	VV	496	6558	0.27%	0.012%
313	13.695	13.656	13.705	VV	442	8087	0.33%	0.015%
314	13.717	13.705	13.741	VV	583	9913	0.41%	0.018%
315	13.758	13.741	13.777	VV	1519	20427	0.84%	0.037%
316	13.793	13.777	13.824	VV	1339	18938	0.78%	0.035%

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317	13.838	13.824	13.861	VV	236	3376	0.14%	0.006%
318	13.897	13.861	13.912	PV	672	1096		
319	13.939	13.912	13.986	VV	1619	3633		
320	13.999	13.986	14.023	VV	660	1081		
321	14.044	14.023	14.083	VV	1202	1916		
322	14.157	14.083	14.192	PV	155574	1982753	81.40%	3.638%
323	14.212	14.192	14.228	VV	1026	13472	0.55%	0.025%
324	14.244	14.228	14.265	VV	1221	16081	0.66%	0.030%
325	14.285	14.265	14.316	VV	1098	15526	0.64%	0.028%
326	14.328	14.316	14.352	VV	207	2248	0.09%	0.004%
327	14.372	14.352	14.401	PV	229	3142	0.13%	0.006%
328	14.431	14.401	14.467	VV	663	14532	0.60%	0.027%
329	14.490	14.467	14.503	VV	656	8831	0.36%	0.016%
330	14.547	14.503	14.591	VV	1327	37733	1.55%	0.069%
331	14.599	14.591	14.617	VV	377	3658	0.15%	0.007%
332	14.639	14.617	14.657	VV	994	14249	0.58%	0.026%
333	14.666	14.657	14.682	VV	618	6599	0.27%	0.012%
334	14.723	14.682	14.745	VV	1992	38109	1.56%	0.070%
335	14.773	14.745	14.801	VV	7489	97754	4.01%	0.179%
336	14.832	14.801	14.862	VV	1506	34334	1.41%	0.063%
337	14.880	14.862	14.907	VV	939	17674	0.73%	0.032%
338	14.935	14.907	14.969	VV	1408	27356	1.12%	0.050%
339	15.006	14.969	15.012	VV	633	11960	0.49%	0.022%
340	15.018	15.012	15.024	VV	633	3989	0.16%	0.007%
341	15.059	15.024	15.100	VV	91674	1278514	52.49%	2.346%
342	15.106	15.100	15.121	VV	1169	12370	0.51%	0.023%
343	15.143	15.121	15.168	VV	4081	57438	2.36%	0.105%
344	15.191	15.168	15.204	VV	1307	21886	0.90%	0.040%
345	15.263	15.204	15.296	VV	154095	1975102	81.08%	3.624%
346	15.305	15.296	15.324	VV	1250	17985	0.74%	0.033%
347	15.348	15.324	15.396	VV	1744	51022	2.09%	0.094%
348	15.423	15.396	15.437	VV	1013	22341	0.92%	0.041%
349	15.449	15.437	15.466	VV	1069	16063	0.66%	0.029%
350	15.469	15.466	15.480	VV	821	6554	0.27%	0.012%
351	15.501	15.480	15.516	VV	1031	18137	0.74%	0.033%
352	15.535	15.516	15.552	VV	875	17451	0.72%	0.032%
353	15.558	15.552	15.562	VV	719	3942	0.16%	0.007%
354	15.568	15.562	15.574	VV	718	5107	0.21%	0.009%
355	15.601	15.574	15.612	VV	1002	20084	0.82%	0.037%
356	15.641	15.612	15.729	VV	33458	572679	23.51%	1.051%
357	15.735	15.729	15.744	VV	755	6188	0.25%	0.011%
358	15.750	15.744	15.760	VV	659	5574	0.23%	0.010%
359	15.787	15.760	15.816	VV	1353	31097	1.28%	0.057%
360	15.858	15.816	15.889	VV	1104	27418	1.13%	0.050%
361	15.904	15.889	15.911	PV	272	1695	0.07%	0.003%
362	15.914	15.911	15.939	VV	233	2028	0.08%	0.004%
363	15.976	15.939	15.988	VV	388	7604	0.31%	0.014%
364	16.006	15.988	16.018	VV	700	8317	0.34%	0.015%

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual IntegrationsAPPROVED

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rteres

365	16.022	16.018	16.057	VV	617	6751	0.28%	0.012%
366	16.078	16.057	16.090	VV	404	469		
367	16.106	16.090	16.132	VV	358	532		
368	16.165	16.132	16.184	PV	920	1653		
369	16.207	16.184	16.224	VV	921	1536		
370	16.289	16.224	16.325	VV	142062	1911526	78.47%	3.507%
371	16.385	16.325	16.396	VV	647	21643	0.89%	0.040%
372	16.398	16.396	16.400	VV	586	1550	0.06%	0.003%
373	16.441	16.400	16.454	VV	992	26039	1.07%	0.048%
374	16.507	16.454	16.518	VV	1207	40033	1.64%	0.073%
375	16.587	16.518	16.597	VV	1458	57580	2.36%	0.106%
376	16.663	16.597	16.701	VV	4451	142942	5.87%	0.262%
377	16.750	16.701	16.765	VV	4408	103790	4.26%	0.190%
378	16.772	16.765	16.809	VV	3485	57692	2.37%	0.106%
379	16.853	16.809	16.862	VV	2243	52710	2.16%	0.097%
380	16.883	16.862	16.939	VV	4434	112900	4.63%	0.207%
381	16.945	16.939	16.948	VV	1384	7186	0.30%	0.013%
382	16.958	16.948	16.991	VV	1326	27569	1.13%	0.051%
383	17.026	16.991	17.039	VV	1269	28216	1.16%	0.052%
384	17.070	17.039	17.096	VV	4357	80811	3.32%	0.148%
385	17.129	17.096	17.177	VV	4506	82197	3.37%	0.151%
386	17.242	17.177	17.271	VV	131372	1876940	77.05%	3.444%
387	17.289	17.271	17.350	VV	7008	102823	4.22%	0.189%
388	17.380	17.350	17.402	PV	468	7245	0.30%	0.013%
389	17.406	17.402	17.413	VV	171	517	0.02%	0.001%
390	17.439	17.413	17.444	PV	203	1085	0.04%	0.002%
391	17.506	17.444	17.531	VV	1173	28820	1.18%	0.053%
392	17.536	17.531	17.552	VV	849	7988	0.33%	0.015%
393	17.608	17.552	17.634	VV	2490	66361	2.72%	0.122%
394	17.655	17.634	17.667	VV	2000	37015	1.52%	0.068%
395	17.690	17.667	17.732	VV	3768	76795	3.15%	0.141%
396	17.752	17.732	17.764	VV	995	18112	0.74%	0.033%
397	17.789	17.764	17.814	VV	1664	31602	1.30%	0.058%
398	17.833	17.814	17.846	VV	1014	13614	0.56%	0.025%
399	17.899	17.846	17.923	VV	1232	38574	1.58%	0.071%
400	17.941	17.923	17.959	VV	568	8187	0.34%	0.015%
401	18.023	17.959	18.046	VV	1930	47909	1.97%	0.088%
402	18.083	18.046	18.095	VV	1660	42257	1.73%	0.078%
403	18.132	18.095	18.165	VV	130143	1859574	76.34%	3.412%
404	18.174	18.165	18.204	VV	1730	28403	1.17%	0.052%
405	18.221	18.204	18.242	VV	1720	25527	1.05%	0.047%
406	18.285	18.242	18.298	VV	1030	29027	1.19%	0.053%
407	18.316	18.298	18.331	VV	924	13825	0.57%	0.025%
408	18.359	18.331	18.381	VV	1137	19551	0.80%	0.036%
409	18.408	18.381	18.427	VV	1169	17469	0.72%	0.032%
410	18.444	18.427	18.456	VV	713	7571	0.31%	0.014%
411	18.554	18.527	18.587	VV	5550	114929	4.72%	0.211%

Instrument :
FID_G
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Manual IntegrationsAPPROVED

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rteres

412	18.640	18.587	18.654	VV	2954	69830	2.87%	0.128%
413	18.661	18.654	18.676	VV	2353	2797		
414	18.695	18.676	18.712	VV	2173	3951		
415	18.800	18.787	18.816	VV	2266	3059		
416	18.826	18.816	18.834	VV	1451	1470		
417	18.841	18.834	18.852	VV	1500	14482	0.59%	0.027%
418	18.889	18.852	18.911	VV	2796	69613	2.86%	0.128%
419	18.967	18.911	19.029	VV	127967	1893276	77.72%	3.474%
420	19.059	19.029	19.092	VV	3104	65230	2.68%	0.120%
421	19.118	19.092	19.142	PV	1634	29486	1.21%	0.054%
422	19.155	19.142	19.160	VV	760	6222	0.26%	0.011%
423	19.185	19.160	19.200	VV	1423	24640	1.01%	0.045%
424	19.221	19.200	19.238	VV	2491	37402	1.54%	0.069%
425	19.270	19.238	19.284	VV	3550	70546	2.90%	0.129%
426	19.412	19.401	19.418	VV	5752	52021	2.14%	0.095%
427	19.440	19.418	19.457	VV	6875	144914	5.95%	0.266%
428	19.465	19.457	19.478	VV	6020	67614	2.78%	0.124%
429	19.483	19.478	19.490	VV	4097	27980	1.15%	0.051%
430	19.536	19.526	19.542	VV	6265	52456	2.15%	0.096%
431	19.558	19.542	19.567	VV	7224	102942	4.23%	0.189%
432	19.576	19.567	19.597	VV	6926	112574	4.62%	0.207%
433	19.654	19.641	19.670	VV	9308	148735	6.11%	0.273%
434	19.681	19.670	19.696	VV	8749	119502	4.91%	0.219%
435	19.753	19.696	19.785	VV	125660	2091894	85.88%	3.838%
436	19.796	19.785	19.805	VV	8862	102224	4.20%	0.188%
437	19.826	19.805	19.842	VV	10700	193168	7.93%	0.354%
438	19.916	19.886	19.932	VV	11143	222065	9.12%	0.407%
439	19.943	19.932	19.953	VV	9056	93402	3.83%	0.171%
440	19.960	19.953	19.966	VV	6302	48408	1.99%	0.089%
441	19.984	19.966	20.001	VV	10858	191269	7.85%	0.351%
442	20.031	20.001	20.048	VV	12105	297827	12.23%	0.546%
443	20.145	20.131	20.161	VV	14619	225689	9.27%	0.414%
444	20.183	20.161	20.191	VV	12051	203389	8.35%	0.373%
445	20.195	20.191	20.205	VV	10766	89384	3.67%	0.164%
446	20.280	20.248	20.286	VV	16781	325175	13.35%	0.597%
447	20.307	20.303	20.318	VV	14127	120682	4.95%	0.221%
448	20.326	20.318	20.336	VV	13432	131404	5.39%	0.241%
449	20.390	20.375	20.397	VV	11532	138516	5.69%	0.254%
450	20.409	20.397	20.428	VV	12470	206096	8.46%	0.378%
451	20.442	20.428	20.455	VV	14005	192530	7.90%	0.353%
452	20.494	20.455	20.532	VV	118671	2158074	88.60%	3.960%
453	20.540	20.532	20.547	VV	18140	156845	6.44%	0.288%
454	20.565	20.547	20.575	VV	16706	265883	10.92%	0.488%
455	20.596	20.575	20.612	VV	22284	417862	17.15%	0.767%
456	20.644	20.612	20.650	VV	24095	470579	19.32%	0.863%
457	20.657	20.650	20.670	VV	24213	260057	10.68%	0.477%
458	20.702	20.695	20.712	VV	19261	183157	7.52%	0.336%
459	20.731	20.712	20.750	VV	22839	463782	19.04%	0.851%

Instrument :
FID_G
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SB-01-20241219-9.0-9.5MS

Manual IntegrationsAPPROVED

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					rteres			
460	20.800	20.777	20.807	VV	20849	329267	13.52%	0.604%
461	20.815	20.807	20.824	VV	23016	21011		
462	20.860	20.849	20.863	VV	23048	18197		
463	20.872	20.863	20.880	VV	24838	23202		
464	20.885	20.880	20.899	VV	23798	25128		
465	20.931	20.913	20.939	VV	20910	302396	12.41%	0.555%
466	20.944	20.939	20.951	VV	20654	147588	6.06%	0.271%
467	20.959	20.951	20.977	VV	19772	293333	12.04%	0.538%
468	20.983	20.977	20.988	VV	17858	114331	4.69%	0.210%
469	20.996	20.988	21.006	VV	19196	191706	7.87%	0.352%
470	21.018	21.006	21.024	VV	19311	206084	8.46%	0.378%
471	21.031	21.024	21.040	VV	19637	172599	7.09%	0.317%
472	21.044	21.040	21.052	VV	17346	120456	4.95%	0.221%
473	21.113	21.095	21.133	VV	21297	418601	17.18%	0.768%
474	21.168	21.153	21.173	VV	20254	223269	9.17%	0.410%
475	21.186	21.173	21.194	VV	21073	245795	10.09%	0.451%
476	21.201	21.194	21.210	VV	19558	177466	7.29%	0.326%
477	21.248	21.210	21.306	VV	99680	2435867	100.00%	4.470%
478	21.360	21.348	21.369	VV	13689	155219	6.37%	0.285%
479	21.375	21.369	21.392	VV	11359	141004	5.79%	0.259%
480	21.399	21.392	21.406	VV	10577	80608	3.31%	0.148%
481	21.465	21.452	21.485	VV	14489	239339	9.83%	0.439%
482	21.498	21.485	21.508	VV	16944	189746	7.79%	0.348%
483	21.517	21.508	21.531	VV	16203	207808	8.53%	0.381%
484	21.541	21.531	21.566	VV	18227	323730	13.29%	0.594%
485	21.571	21.566	21.578	VV	14014	96922	3.98%	0.178%
486	21.618	21.606	21.636	VV	11365	180157	7.40%	0.331%
487	21.642	21.636	21.648	VV	7935	56397	2.32%	0.103%
488	21.661	21.648	21.674	VV	9999	135935	5.58%	0.249%
489	21.710	21.702	21.718	VV	11474	97901	4.02%	0.180%
490	21.724	21.718	21.738	VV	11090	129277	5.31%	0.237%
491	21.765	21.759	21.792	VV	9521	136801	5.62%	0.251%
492	21.803	21.792	21.812	VV	5101	44810	1.84%	0.082%
493	21.819	21.812	21.824	VV	3908	25669	1.05%	0.047%
494	21.832	21.824	21.841	VV	4788	38231	1.57%	0.070%
495	21.853	21.841	21.869	VV	6456	65311	2.68%	0.120%
496	21.878	21.869	21.886	PV	1781	10737	0.44%	0.020%
497	21.903	21.886	21.908	VV	3151	25864	1.06%	0.047%
498	21.913	21.908	21.924	VV	2921	20820	0.85%	0.038%
499	22.005	21.979	22.016	VV	8038	154737	6.35%	0.284%
500	22.065	22.052	22.080	VV	5103	61741	2.53%	0.113%
501	22.087	22.080	22.105	VV	3327	28191	1.16%	0.052%
502	22.118	22.105	22.130	PV	3212	23240	0.95%	0.043%
503	22.189	22.130	22.241	VV	62834	1663827	68.31%	3.053%
504	22.282	22.241	22.290	PV	2521	35317	1.45%	0.065%
505	22.293	22.290	22.301	VBA	900	37296	1.53%	0.068%

Sum of corrected areas: 54499535

rteres

FG121924.M Tue Dec 24 02:24:17 2024

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	12/19/24
Project:	Con Edison Non-MGP - East River 453648.60024.03	Date Received:	12/19/24
Client Sample ID:	SB-01-20241219-9.0-9.5MSD	SDG No.:	P5361
Lab Sample ID:	P5361-02MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	87.1 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015026.D	1	12/23/24 08:35	12/23/24 16:41	PB165807

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	15300		365	3250	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	9.36		37 - 130	47%	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015026.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 16:41
Operator : YP\AJ
Sample : P5361-02MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 24 00:30:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/26/2024
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	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.057	1251367	9.363 ug/ml
	Target Compounds			
1)	N-OCTANE	2.015	1349230	10.983 ug/ml
2)	N-DECANE	4.551	1663571	13.123 ug/ml
3)	N-DODECANE	6.733	1774674	13.235 ug/ml
4)	N-TETRADECANE	8.569	1941892	14.468 ug/ml
5)	N-HEXADECANE	10.185	1929459	13.768 ug/ml
6)	N-OCTADECANE	11.634	1987099	13.457 ug/ml
7)	N-EICOSANE	12.950	2015400	13.719 ug/ml
8)	N-DOCOSANE	14.153	1940678	13.194 ug/ml
10)	N-TETRACOSANE	15.261	1913504	12.929 ug/ml
11)	N-HEXACOSANE	16.286	1900296	12.943 ug/ml
12)	N-OCTACOSANE	17.240	1829648	12.494 ug/ml
13)	N-TRIACONTANE	18.130	1824791	12.376 ug/ml
14)	N-DOTRIACONTANE	18.965	1788686	12.395 ug/ml
15)	N-TETRATRIACONTANE	19.751	1689301	13.005 ug/ml
16)	N-HEXATRIACONTANE	20.493	1559795	13.968 ug/ml
17)	N-OCTATRIACONTANE	21.244	1518003	14.842 ug/mlm
18)	N-TETRACONTANE	22.187	1504576	15.695 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG122324\
Data File : FG015026.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 16:41
Operator : YP\AJ
Sample : P5361-02MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 24 00:30:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Quant Title :
QLast Update : Thu Dec 19 16:42:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MSD

Manual Integrations APPROVED

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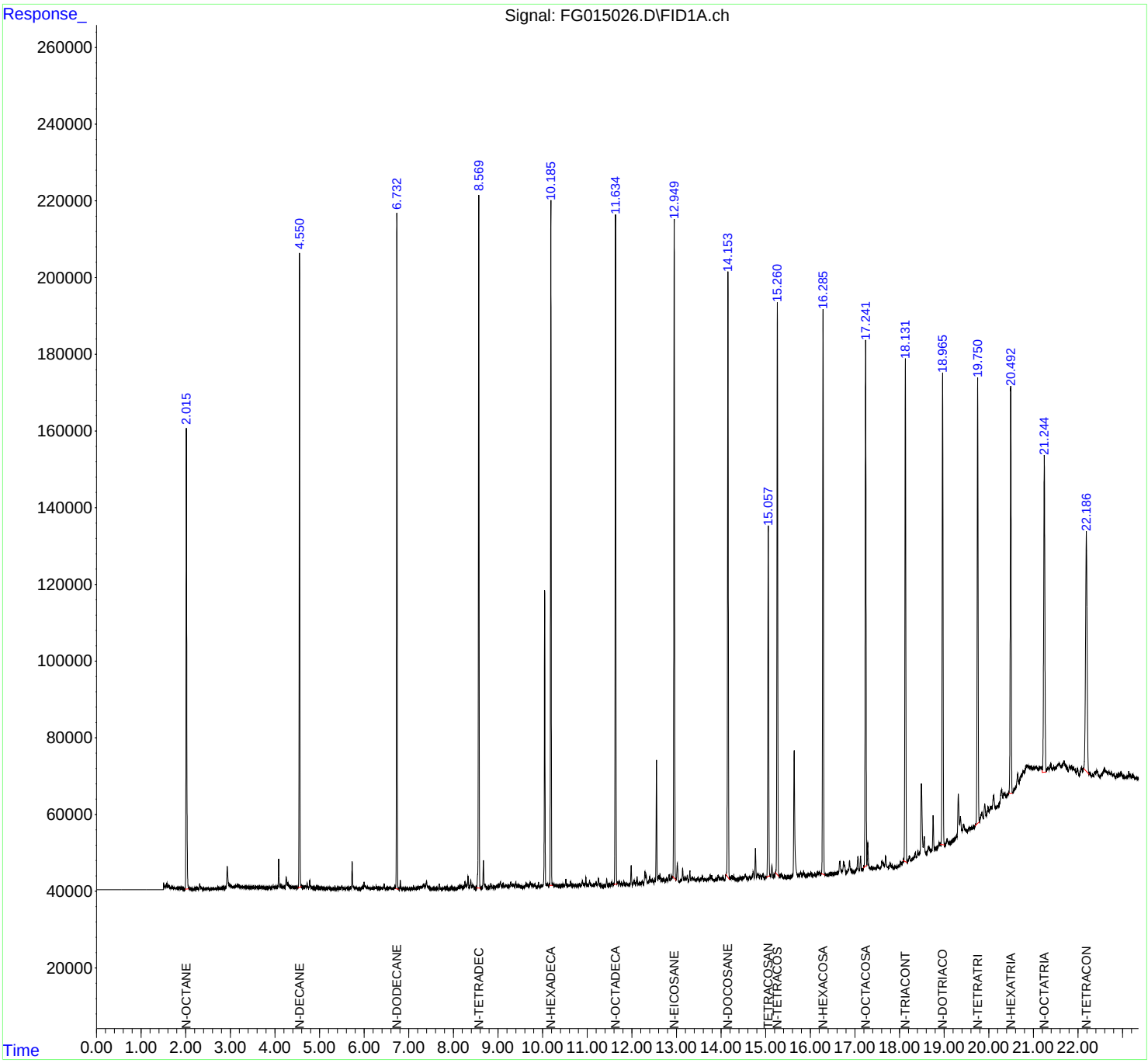

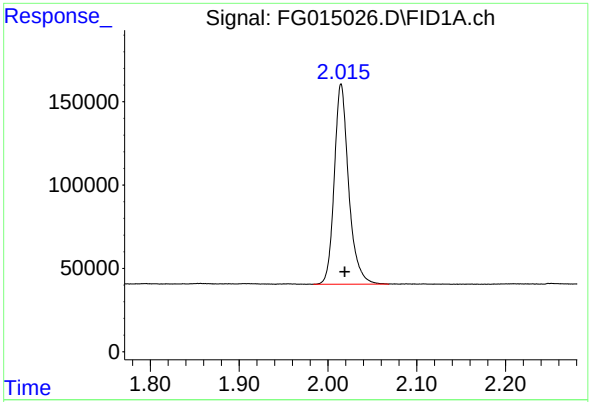

#1 N-OCTANE

R.T.: 2.015 min
Delta R.T.: -0.004 min
Response: 1349230
Conc: 10.98 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MSD

Manual Integrations APPROVED

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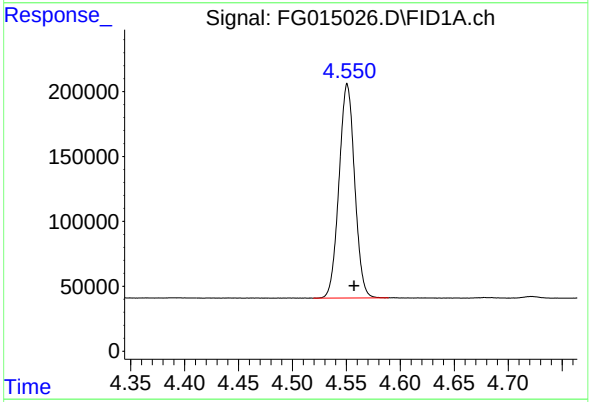
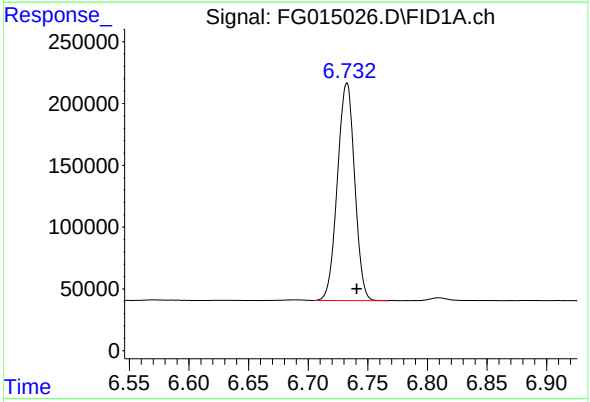
Supervised By :Ankita Jodhani 12/27/2024



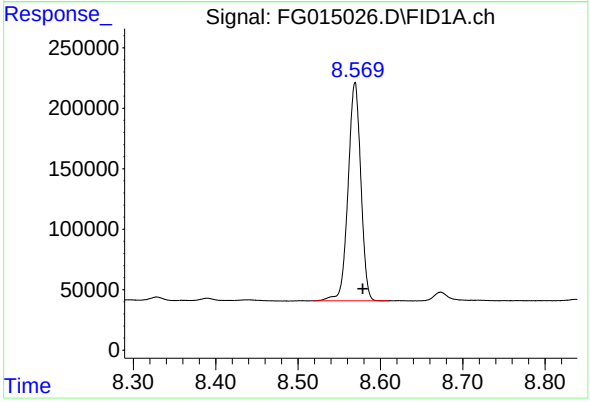
#2 N-DECANE

R.T.: 4.551 min
Delta R.T.: -0.006 min
Response: 1663571
Conc: 13.12 ug/ml



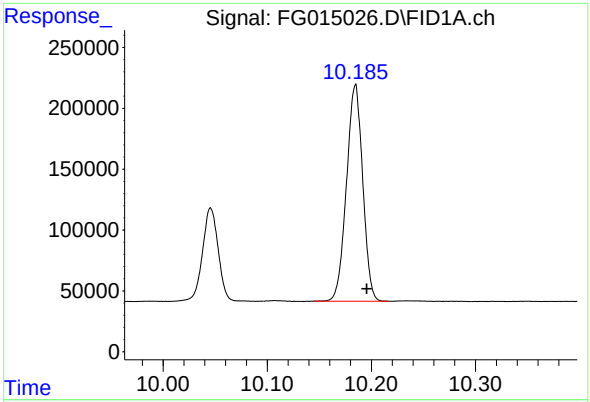
#3 N-DODECANE

R.T.: 6.733 min
Delta R.T.: -0.008 min
Response: 1774674
Conc: 13.24 ug/ml



#4 N-TETRADECANE

R.T.: 8.569 min
Delta R.T.: -0.009 min
Response: 1941892
Conc: 14.47 ug/ml



#5 N-HEXADECANE

R.T.: 10.185 min
Delta R.T.: -0.011 min
Response: 1929459
Conc: 13.77 ug/ml

Instrument :
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ClientSampleId :
SB-01-20241219-9.0-9.5MSD

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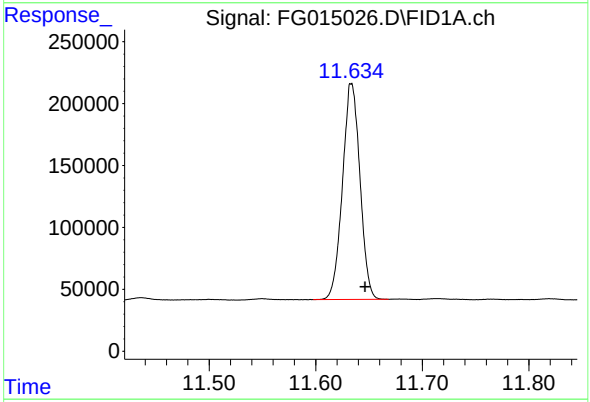
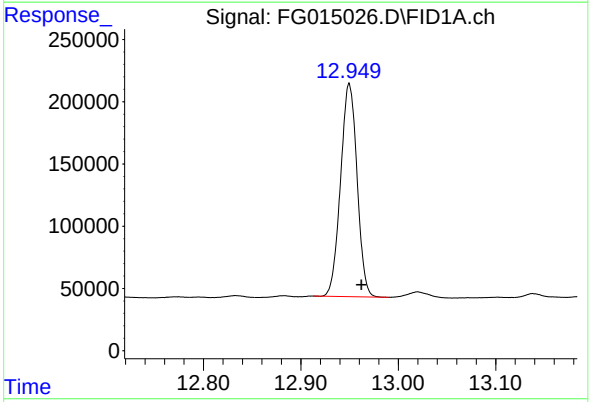
Supervised By :Ankita Jodhani 12/27/2024



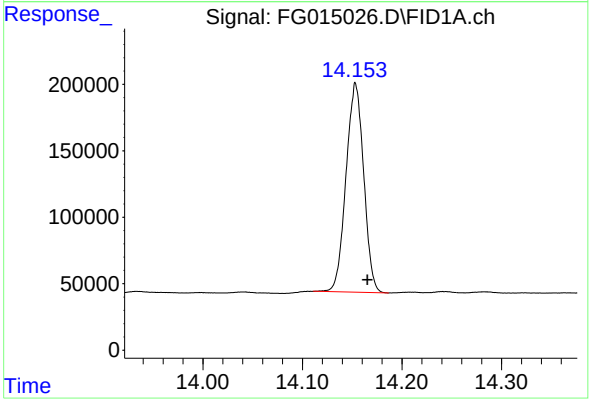
#6 N-OCTADECANE

R.T.: 11.634 min
Delta R.T.: -0.013 min
Response: 1987099
Conc: 13.46 ug/ml



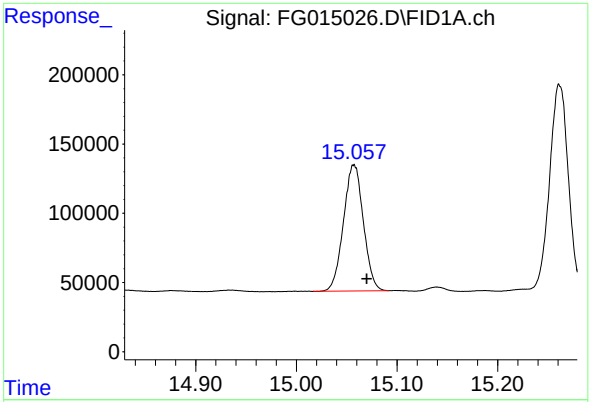
#7 N-EICOSANE

R.T.: 12.950 min
Delta R.T.: -0.013 min
Response: 2015400
Conc: 13.72 ug/ml



#8 N-DOCOSANE

R.T.: 14.153 min
Delta R.T.: -0.012 min
Response: 1940678
Conc: 13.19 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.057 min
Delta R.T.: -0.013 min
Response: 1251367
Conc: 9.36 ug/ml

Instrument :
FID_G
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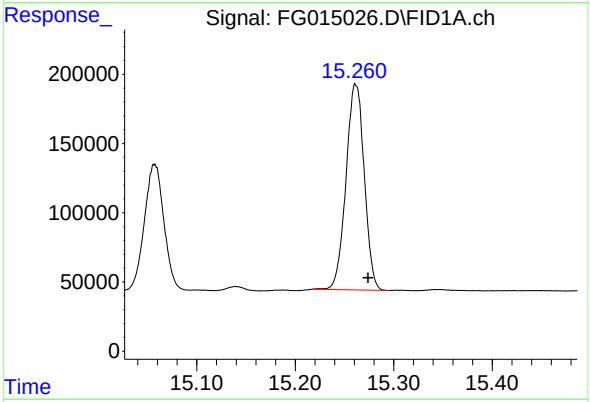
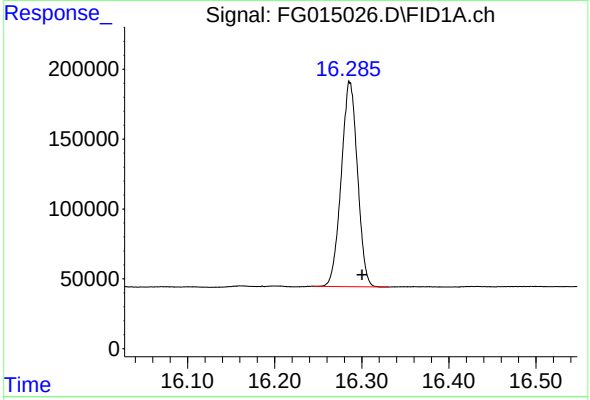


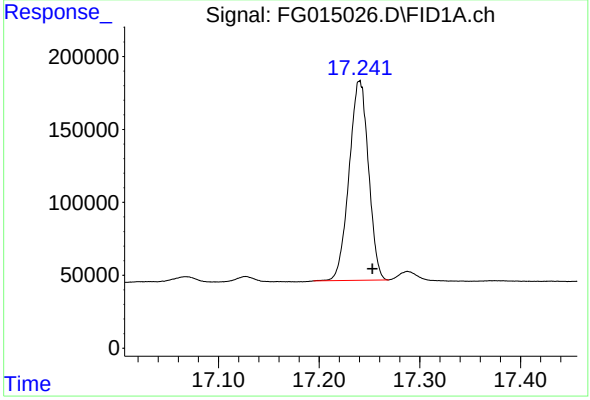
#10 N-TETRACOSANE

R.T.: 15.261 min
Delta R.T.: -0.013 min
Response: 1913504
Conc: 12.93 ug/ml



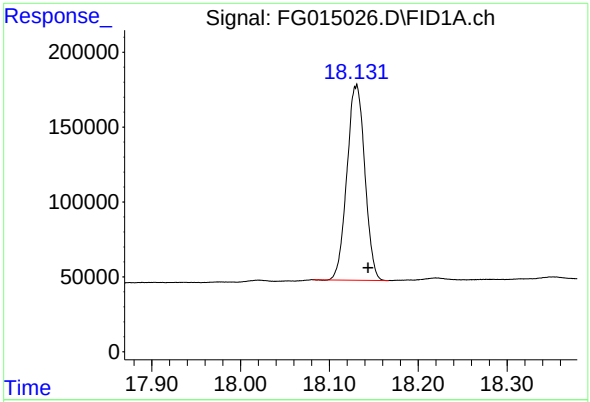
#11 N-HEXACOSANE

R.T.: 16.286 min
Delta R.T.: -0.014 min
Response: 1900296
Conc: 12.94 ug/ml



#12 N-OCTACOSANE

R.T.: 17.240 min
Delta R.T.: -0.013 min
Response: 1829648
Conc: 12.49 ug/ml



#13 N-TRIACONTANE

R.T.: 18.130 min
Delta R.T.: -0.013 min
Response: 1824791
Conc: 12.38 ug/ml

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MSD

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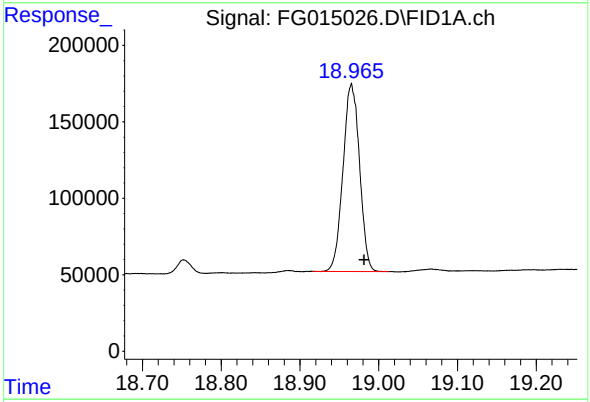
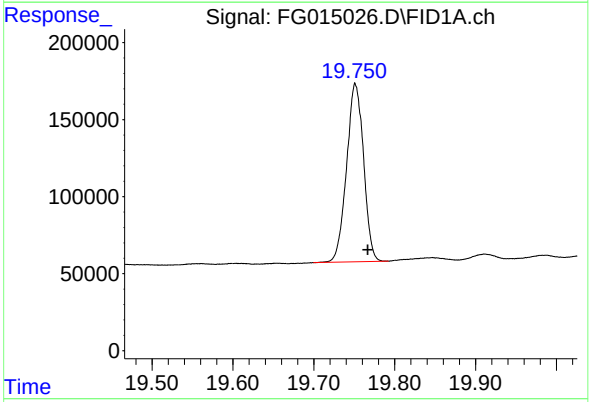


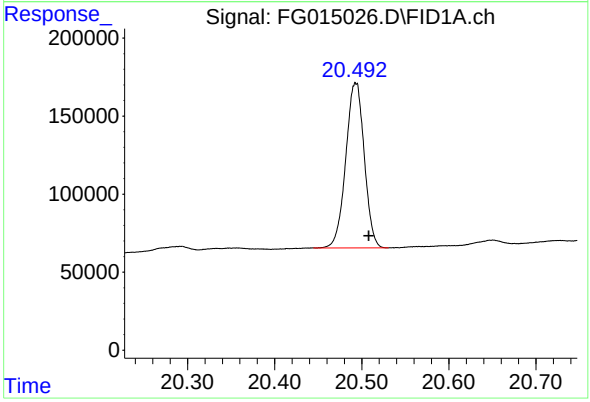
#14 N-DOTRIACONTANE

R.T.: 18.965 min
Delta R.T.: -0.016 min
Response: 1788686
Conc: 12.40 ug/ml



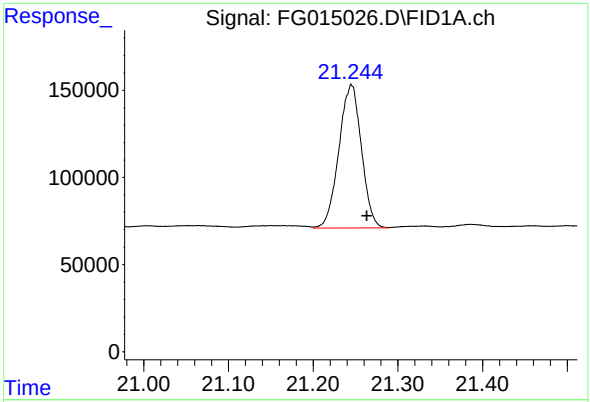
#15 N-TETRATRIACONTANE

R.T.: 19.751 min
Delta R.T.: -0.016 min
Response: 1689301
Conc: 13.00 ug/ml



#16 N-HEXATRIACONTANE

R.T.: 20.493 min
Delta R.T.: -0.015 min
Response: 1559795
Conc: 13.97 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.244 min
Delta R.T.: -0.019 min
Response: 1518003
Conc: 14.84 ug/ml

Instrument :
FID_G
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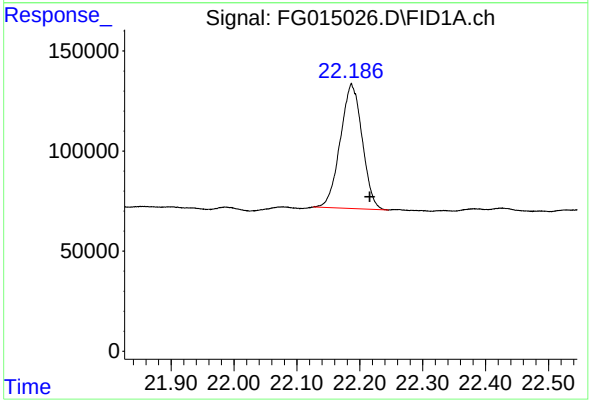

#18 N-TETRACONTANE

R.T.: 22.187 min
Delta R.T.: -0.029 min
Response: 1504576
Conc: 15.69 ug/ml

Instrument :
FID_G
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rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG015026.D
Signal(s) : FID1A.ch
Acq On : 23 Dec 2024 16:41
Sample : P5361-02MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG121924.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.955	1.929	1.984	BV	191	907	0.04%	0.002%
2	2.015	1.984	2.080	PV	120274	1353823	61.26%	2.468%
3	2.089	2.080	2.102	VV	248	2040	0.09%	0.004%
4	2.108	2.102	2.127	VV	212	1772	0.08%	0.003%
5	2.130	2.127	2.148	VV	135	788	0.04%	0.001%
6	2.161	2.148	2.172	VV	134	871	0.04%	0.002%
7	2.209	2.172	2.242	PV	336	7171	0.32%	0.013%
8	2.252	2.242	2.276	VV	585	6357	0.29%	0.012%
9	2.280	2.276	2.302	VV	174	1944	0.09%	0.004%
10	2.313	2.302	2.396	VV	1466	25830	1.17%	0.047%
11	2.416	2.396	2.421	VV	157	1179	0.05%	0.002%
12	2.442	2.421	2.449	VV	217	2423	0.11%	0.004%
13	2.453	2.449	2.469	VV	220	1599	0.07%	0.003%
14	2.487	2.469	2.492	VV	327	3095	0.14%	0.006%
15	2.495	2.492	2.514	VV	303	2353	0.11%	0.004%
16	2.519	2.514	2.527	VV	141	691	0.03%	0.001%
17	2.533	2.527	2.541	VV	99	575	0.03%	0.001%
18	2.551	2.541	2.563	PV	139	1066	0.05%	0.002%
19	2.577	2.563	2.588	VV	152	1257	0.06%	0.002%
20	2.601	2.588	2.606	VV	176	1432	0.06%	0.003%
21	2.612	2.606	2.626	VV	195	1673	0.08%	0.003%
22	2.636	2.626	2.663	VV	265	3632	0.16%	0.007%
23	2.667	2.663	2.681	VV	183	1375	0.06%	0.003%
24	2.685	2.681	2.693	VV	174	883	0.04%	0.002%
25	2.720	2.693	2.757	VV	413	9284	0.42%	0.017%
26	2.761	2.757	2.767	VV	216	951	0.04%	0.002%
27	2.778	2.767	2.800	VV	367	5000	0.23%	0.009%
28	2.830	2.800	2.846	VV	443	8868	0.40%	0.016%
29	2.857	2.846	2.883	VV	463	7862	0.36%	0.014%
30	2.930	2.883	2.995	VV	5946	128954	5.84%	0.235%
31	3.001	2.995	3.048	VV	1044	25848	1.17%	0.047%

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32	3.052	3.048	3.071	VV	621	8481	0.38%	0.015%
33	3.120	3.071	3.123	VV	932	2162		
34	3.128	3.123	3.147	VV	881	1124		
35	3.162	3.147	3.247	VV	1262	4690		
36	3.261	3.247	3.269	VV	690	812		
37	3.275	3.269	3.321	VV	733	19374	0.88%	0.035%
38	3.327	3.321	3.334	VV	636	4620	0.21%	0.008%
39	3.338	3.334	3.344	VV	569	3296	0.15%	0.006%
40	3.362	3.344	3.369	VV	614	8286	0.37%	0.015%
41	3.373	3.369	3.388	VV	599	6243	0.28%	0.011%
42	3.391	3.388	3.402	VV	585	4736	0.21%	0.009%
43	3.405	3.402	3.418	VV	608	5518	0.25%	0.010%
44	3.421	3.418	3.425	VV	578	2089	0.09%	0.004%
45	3.430	3.425	3.443	VV	567	5786	0.26%	0.011%
46	3.462	3.443	3.500	VV	655	19752	0.89%	0.036%
47	3.505	3.500	3.516	VV	595	5457	0.25%	0.010%
48	3.522	3.516	3.529	VV	657	4431	0.20%	0.008%
49	3.535	3.529	3.540	VV	649	3513	0.16%	0.006%
50	3.549	3.540	3.564	VV	634	7874	0.36%	0.014%
51	3.571	3.564	3.622	VV	623	17432	0.79%	0.032%
52	3.645	3.622	3.690	VV	622	20528	0.93%	0.037%
53	3.714	3.690	3.733	VV	626	12512	0.57%	0.023%
54	3.738	3.733	3.741	VV	447	2145	0.10%	0.004%
55	3.744	3.741	3.784	VV	519	10848	0.49%	0.020%
56	3.790	3.784	3.801	VV	469	4161	0.19%	0.008%
57	3.806	3.801	3.810	VV	448	2100	0.10%	0.004%
58	3.814	3.810	3.823	VV	445	3101	0.14%	0.006%
59	3.828	3.823	3.840	VV	432	4138	0.19%	0.008%
60	3.862	3.840	3.876	VV	567	9949	0.45%	0.018%
61	3.882	3.876	3.892	VV	544	4669	0.21%	0.009%
62	3.897	3.892	3.903	VV	513	2902	0.13%	0.005%
63	3.908	3.903	3.915	VV	476	3177	0.14%	0.006%
64	3.953	3.915	3.992	VV	828	25392	1.15%	0.046%
65	4.005	3.992	4.027	VV	681	12393	0.56%	0.023%
66	4.031	4.027	4.036	VV	557	2893	0.13%	0.005%
67	4.044	4.036	4.048	VV	579	3764	0.17%	0.007%
68	4.052	4.048	4.058	VV	548	3331	0.15%	0.006%
69	4.084	4.058	4.128	VV	7954	97798	4.43%	0.178%
70	4.138	4.128	4.173	VV	982	20172	0.91%	0.037%
71	4.175	4.173	4.188	VV	664	6039	0.27%	0.011%
72	4.195	4.188	4.225	VV	687	12330	0.56%	0.022%
73	4.253	4.225	4.277	VV	3201	57572	2.61%	0.105%
74	4.292	4.277	4.357	VV	1612	44047	1.99%	0.080%
75	4.365	4.357	4.382	VV	592	8109	0.37%	0.015%
76	4.388	4.382	4.418	VV	678	12400	0.56%	0.023%
77	4.426	4.418	4.435	VV	503	4889	0.22%	0.009%
78	4.441	4.435	4.457	VV	584	6398	0.29%	0.012%
79	4.467	4.457	4.481	VV	521	6839	0.31%	0.012%

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80	4.497	4.481	4.506	VV	532	6961	0.31%	0.013%
81	4.551	4.506	4.612	VV	165472	169920		
82	4.617	4.612	4.639	VV	648	831		
83	4.653	4.639	4.663	VV	556	733		
84	4.678	4.663	4.703	VV	900	1504		
85	4.722	4.703	4.755	VV	1696	25803	1.17%	0.047%
86	4.780	4.755	4.818	VV	2343	39003	1.76%	0.071%
87	4.822	4.818	4.843	VV	436	5678	0.26%	0.010%
88	4.847	4.843	4.852	VV	430	2261	0.10%	0.004%
89	4.859	4.852	4.868	VV	398	3376	0.15%	0.006%
90	4.888	4.868	4.893	VV	433	4900	0.22%	0.009%
91	4.897	4.893	4.909	VV	329	3155	0.14%	0.006%
92	4.941	4.909	4.963	VV	687	16137	0.73%	0.029%
93	4.967	4.963	4.993	VV	561	7448	0.34%	0.014%
94	4.998	4.993	5.019	VV	358	4703	0.21%	0.009%
95	5.022	5.019	5.041	VV	371	3722	0.17%	0.007%
96	5.047	5.041	5.101	VV	406	10046	0.45%	0.018%
97	5.105	5.101	5.123	VV	326	3242	0.15%	0.006%
98	5.138	5.123	5.171	VV	261	5023	0.23%	0.009%
99	5.197	5.171	5.204	VV	377	4944	0.22%	0.009%
100	5.213	5.204	5.259	VV	434	6317	0.29%	0.012%
101	5.270	5.259	5.285	VV	152	1345	0.06%	0.002%
102	5.291	5.285	5.295	VV	159	419	0.02%	0.001%
103	5.311	5.295	5.337	VV	292	3981	0.18%	0.007%
104	5.344	5.337	5.366	VV	650	2218	0.10%	0.004%
105	5.377	5.366	5.382	VV	262	1734	0.08%	0.003%
106	5.398	5.382	5.420	VV	418	5149	0.23%	0.009%
107	5.438	5.420	5.470	PV	393	7287	0.33%	0.013%
108	5.498	5.470	5.526	VV	924	14722	0.67%	0.027%
109	5.535	5.526	5.546	VV	233	2056	0.09%	0.004%
110	5.560	5.546	5.584	VV	379	4872	0.22%	0.009%
111	5.602	5.584	5.615	VV	456	5476	0.25%	0.010%
112	5.627	5.615	5.651	VV	394	6702	0.30%	0.012%
113	5.655	5.651	5.660	VV	219	980	0.04%	0.002%
114	5.663	5.660	5.676	VV	181	1409	0.06%	0.003%
115	5.696	5.676	5.712	VV	650	8559	0.39%	0.016%
116	5.731	5.712	5.784	VV	7221	84195	3.81%	0.153%
117	5.809	5.784	5.837	VV	478	9191	0.42%	0.017%
118	5.842	5.837	5.846	VV	192	852	0.04%	0.002%
119	5.849	5.846	5.873	VV	191	2125	0.10%	0.004%
120	5.884	5.873	5.902	VV	164	1831	0.08%	0.003%
121	5.909	5.902	5.930	VV	170	1700	0.08%	0.003%
122	5.966	5.930	5.981	VV	808	14290	0.65%	0.026%
123	5.998	5.981	6.016	VV	1891	25689	1.16%	0.047%
124	6.029	6.016	6.054	VV	799	13391	0.61%	0.024%
125	6.069	6.054	6.107	VV	576	13540	0.61%	0.025%
126	6.111	6.107	6.155	VV	346	6326	0.29%	0.012%

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127	6.173	6.155	6.184	VV	307	4050	0.18%	0.007%
128	6.206	6.184	6.219	VV	435	593		
129	6.230	6.219	6.250	VV	441	570		
130	6.271	6.250	6.309	VV	678	1406		
131	6.317	6.309	6.340	VV	282	404		
132	6.345	6.340	6.350	VV	249	1126	0.05%	0.002%
133	6.377	6.350	6.400	VV	369	8574	0.39%	0.016%
134	6.418	6.400	6.429	VV	386	4870	0.22%	0.009%
135	6.446	6.429	6.483	VV	1438	19067	0.86%	0.035%
136	6.496	6.483	6.514	VV	355	4570	0.21%	0.008%
137	6.537	6.514	6.544	VV	251	3736	0.17%	0.007%
138	6.549	6.544	6.554	VV	216	1085	0.05%	0.002%
139	6.570	6.554	6.608	VV	613	12432	0.56%	0.023%
140	6.623	6.608	6.649	VV	277	5230	0.24%	0.010%
141	6.653	6.649	6.659	VV	119	653	0.03%	0.001%
142	6.689	6.659	6.704	VV	696	10237	0.46%	0.019%
143	6.732	6.704	6.792	VV	176129	1779582	80.52%	3.244%
144	6.810	6.792	6.849	VV	2372	25545	1.16%	0.047%
145	6.850	6.849	6.865	VV	128	638	0.03%	0.001%
146	6.870	6.865	6.874	VV	97	220	0.01%	0.000%
147	6.882	6.874	6.902	VV	154	1456	0.07%	0.003%
148	6.909	6.902	6.923	PV	83	607	0.03%	0.001%
149	6.933	6.923	6.954	VV	254	3152	0.14%	0.006%
150	6.957	6.954	6.974	VV	218	1599	0.07%	0.003%
151	6.979	6.974	7.006	VV	78	1168	0.05%	0.002%
152	7.011	7.006	7.019	VV	223	997	0.05%	0.002%
153	7.046	7.019	7.072	VV	188	4465	0.20%	0.008%
154	7.079	7.072	7.084	VV	171	899	0.04%	0.002%
155	7.103	7.084	7.159	VV	619	11260	0.51%	0.021%
156	7.172	7.159	7.185	VV	273	3467	0.16%	0.006%
157	7.191	7.185	7.205	VV	328	2994	0.14%	0.005%
158	7.217	7.205	7.244	VV	625	10657	0.48%	0.019%
159	7.263	7.244	7.284	VV	585	12323	0.56%	0.022%
160	7.289	7.284	7.295	VV	571	3223	0.15%	0.006%
161	7.332	7.295	7.363	VV	1114	32060	1.45%	0.058%
162	7.397	7.363	7.427	VV	2180	44016	1.99%	0.080%
163	7.437	7.427	7.447	VV	759	7082	0.32%	0.013%
164	7.454	7.447	7.482	VV	584	6938	0.31%	0.013%
165	7.489	7.482	7.494	VV	202	1152	0.05%	0.002%
166	7.498	7.494	7.530	VV	219	2732	0.12%	0.005%
167	7.568	7.530	7.589	VV	253	4433	0.20%	0.008%
168	7.605	7.589	7.615	VV	260	2569	0.12%	0.005%
169	7.628	7.615	7.657	VV	366	5140	0.23%	0.009%
170	7.683	7.657	7.720	VV	1435	17155	0.78%	0.031%
171	7.731	7.720	7.736	VV	135	730	0.03%	0.001%
172	7.743	7.736	7.765	VV	124	1989	0.09%	0.004%
173	7.780	7.765	7.785	VV	175	1654	0.07%	0.003%
174	7.805	7.785	7.832	VV	324	6094	0.28%	0.011%

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175	7.857	7.832	7.884	VV	535	9094	0.41%	0.017%
176	7.901	7.884	7.912	VV	188	212		
177	7.953	7.912	7.985	VV	550	1285		
178	8.002	7.985	8.027	VV	305	445		
179	8.033	8.027	8.046	PV	136	98		
180	8.054	8.046	8.061	VV	154	1018	0.05%	0.002%
181	8.113	8.061	8.125	VV	520	11266	0.51%	0.021%
182	8.151	8.125	8.157	VV	681	10511	0.48%	0.019%
183	8.169	8.157	8.202	VV	986	17689	0.80%	0.032%
184	8.213	8.202	8.239	VV	613	10498	0.48%	0.019%
185	8.260	8.239	8.275	VV	1949	24653	1.12%	0.045%
186	8.295	8.275	8.307	VV	1117	17229	0.78%	0.031%
187	8.329	8.307	8.352	VV	3399	45204	2.05%	0.082%
188	8.359	8.352	8.370	VV	691	6190	0.28%	0.011%
189	8.390	8.370	8.422	VV	2371	34553	1.56%	0.063%
190	8.440	8.422	8.488	VV	1052	20080	0.91%	0.037%
191	8.505	8.488	8.512	VV	322	2860	0.13%	0.005%
192	8.569	8.512	8.606	VV	180695	1954187	88.42%	3.562%
193	8.624	8.606	8.643	VV	345	5255	0.24%	0.010%
194	8.673	8.643	8.708	VV	7386	94618	4.28%	0.172%
195	8.719	8.708	8.744	VV	715	10882	0.49%	0.020%
196	8.750	8.744	8.760	VV	355	2768	0.13%	0.005%
197	8.768	8.760	8.788	VV	359	4823	0.22%	0.009%
198	8.800	8.788	8.809	VV	349	3422	0.15%	0.006%
199	8.837	8.809	8.857	VV	1331	19544	0.88%	0.036%
200	8.863	8.857	8.873	VV	366	2786	0.13%	0.005%
201	8.899	8.873	8.914	VV	536	8206	0.37%	0.015%
202	8.934	8.914	8.952	VV	548	8129	0.37%	0.015%
203	8.967	8.952	8.985	VV	650	11109	0.50%	0.020%
204	8.990	8.985	9.005	VV	642	6820	0.31%	0.012%
205	9.021	9.005	9.032	VV	901	11748	0.53%	0.021%
206	9.053	9.032	9.092	VV	1680	34723	1.57%	0.063%
207	9.113	9.092	9.142	VV	1463	24761	1.12%	0.045%
208	9.174	9.142	9.182	VV	833	15132	0.68%	0.028%
209	9.186	9.182	9.211	VV	787	11635	0.53%	0.021%
210	9.230	9.211	9.246	VV	645	10280	0.47%	0.019%
211	9.287	9.246	9.320	VV	1595	35953	1.63%	0.066%
212	9.335	9.320	9.378	VV	1089	24227	1.10%	0.044%
213	9.400	9.378	9.435	VV	1548	28110	1.27%	0.051%
214	9.445	9.435	9.455	VV	480	5462	0.25%	0.010%
215	9.487	9.455	9.514	VV	810	19850	0.90%	0.036%
216	9.533	9.514	9.558	VV	539	7036	0.32%	0.013%
217	9.576	9.558	9.594	PV	437	5087	0.23%	0.009%
218	9.628	9.594	9.647	VV	1470	23091	1.04%	0.042%
219	9.662	9.647	9.681	VV	806	12678	0.57%	0.023%
220	9.694	9.681	9.699	VV	472	4647	0.21%	0.008%
221	9.724	9.699	9.737	VV	1487	21924	0.99%	0.040%

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222	9.744	9.737	9.762	VV	1058	12040	0.54%	0.022%
223	9.780	9.762	9.804	VV	965	1632		
224	9.822	9.804	9.857	VV	978	1875		
225	9.860	9.857	9.867	VV	314	155		
226	9.874	9.867	9.882	VV	243	170		
227	9.907	9.882	9.937	VV	1336	19403	0.88%	0.035%
228	9.963	9.937	9.972	VV	511	7001	0.32%	0.013%
229	9.988	9.972	10.001	VV	651	8965	0.41%	0.016%
230	10.046	10.001	10.092	VV	77272	831061	37.60%	1.515%
231	10.107	10.092	10.135	VV	1093	18236	0.83%	0.033%
232	10.185	10.135	10.217	VV	180318	1956981	88.55%	3.567%
233	10.235	10.217	10.273	VV	898	21674	0.98%	0.040%
234	10.282	10.273	10.297	VV	532	6044	0.27%	0.011%
235	10.306	10.297	10.310	VV	370	2510	0.11%	0.005%
236	10.317	10.310	10.331	VV	427	4612	0.21%	0.008%
237	10.349	10.331	10.364	VV	550	7806	0.35%	0.014%
238	10.387	10.364	10.401	VV	432	7838	0.35%	0.014%
239	10.408	10.401	10.436	VV	305	6159	0.28%	0.011%
240	10.457	10.436	10.475	VV	823	11872	0.54%	0.022%
241	10.491	10.475	10.497	VV	578	6032	0.27%	0.011%
242	10.521	10.497	10.547	VV	2117	30439	1.38%	0.055%
243	10.568	10.547	10.593	VV	498	11735	0.53%	0.021%
244	10.628	10.593	10.665	VV	1422	27807	1.26%	0.051%
245	10.673	10.665	10.679	VV	279	2058	0.09%	0.004%
246	10.694	10.679	10.727	VV	562	11190	0.51%	0.020%
247	10.742	10.727	10.769	VV	415	7406	0.34%	0.013%
248	10.776	10.769	10.797	VV	405	4705	0.21%	0.009%
249	10.821	10.797	10.841	VV	917	12607	0.57%	0.023%
250	10.850	10.841	10.863	VV	456	5116	0.23%	0.009%
251	10.892	10.863	10.917	VV	1626	29517	1.34%	0.054%
252	10.927	10.917	10.946	VV	609	8587	0.39%	0.016%
253	10.969	10.946	10.997	VV	2447	33452	1.51%	0.061%
254	11.003	10.997	11.028	VV	466	7568	0.34%	0.014%
255	11.054	11.028	11.070	VV	1447	21440	0.97%	0.039%
256	11.084	11.070	11.104	VV	694	9894	0.45%	0.018%
257	11.134	11.104	11.139	VV	365	6070	0.27%	0.011%
258	11.155	11.139	11.160	VV	447	4631	0.21%	0.008%
259	11.197	11.160	11.222	VV	998	23070	1.04%	0.042%
260	11.252	11.222	11.282	VV	2186	33005	1.49%	0.060%
261	11.301	11.282	11.319	VV	430	5231	0.24%	0.010%
262	11.327	11.319	11.337	VV	138	1002	0.05%	0.002%
263	11.341	11.337	11.348	PV	67	375	0.02%	0.001%
264	11.359	11.348	11.374	VV	182	1308	0.06%	0.002%
265	11.403	11.374	11.417	VV	192	3557	0.16%	0.006%
266	11.436	11.417	11.466	VV	1961	24604	1.11%	0.045%
267	11.500	11.466	11.527	VV	628	10188	0.46%	0.019%
268	11.550	11.527	11.585	VV	1140	17223	0.78%	0.031%
269	11.634	11.585	11.668	VV	174576	2009637	90.93%	3.663%

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270	11.679	11.668	11.696	VV	757	10424	0.47%	0.019%
271	11.715	11.696	11.748	VV	1077	2075		
272	11.765	11.748	11.782	VV	630	834		
273	11.792	11.782	11.800	VV	373	315		
274	11.819	11.800	11.842	VV	1021	1293		
275	11.857	11.842	11.871	VV	463	5118	0.23%	0.009%
276	11.892	11.871	11.910	VV	599	8115	0.37%	0.015%
277	11.916	11.910	11.920	VV	94	309	0.01%	0.001%
278	11.939	11.920	11.958	VV	291	3949	0.18%	0.007%
279	11.985	11.958	12.009	VV	5120	60271	2.73%	0.110%
280	12.049	12.009	12.070	PV	1299	20792	0.94%	0.038%
281	12.081	12.070	12.097	VV	548	7012	0.32%	0.013%
282	12.117	12.097	12.145	VV	2189	27711	1.25%	0.051%
283	12.161	12.145	12.185	VV	571	7601	0.34%	0.014%
284	12.196	12.185	12.207	VV	238	2535	0.11%	0.005%
285	12.231	12.207	12.262	VV	876	15674	0.71%	0.029%
286	12.294	12.262	12.311	VV	3460	52349	2.37%	0.095%
287	12.323	12.311	12.357	VV	2471	37969	1.72%	0.069%
288	12.371	12.357	12.382	VV	757	8627	0.39%	0.016%
289	12.399	12.382	12.417	VV	2120	28111	1.27%	0.051%
290	12.441	12.417	12.450	VV	1012	18143	0.82%	0.033%
291	12.464	12.450	12.496	VV	1139	21614	0.98%	0.039%
292	12.513	12.496	12.529	VV	1250	16158	0.73%	0.029%
293	12.553	12.529	12.580	VV	32350	355481	16.09%	0.648%
294	12.599	12.580	12.618	VV	2081	37665	1.70%	0.069%
295	12.633	12.618	12.652	VV	2333	33834	1.53%	0.062%
296	12.661	12.652	12.676	VV	1116	14785	0.67%	0.027%
297	12.687	12.676	12.700	VV	1146	15206	0.69%	0.028%
298	12.719	12.700	12.751	VV	1202	27493	1.24%	0.050%
299	12.774	12.751	12.786	VV	1340	21369	0.97%	0.039%
300	12.795	12.786	12.807	VV	1176	12606	0.57%	0.023%
301	12.833	12.807	12.855	VV	2264	39627	1.79%	0.072%
302	12.882	12.855	12.899	VV	2177	37219	1.68%	0.068%
303	12.912	12.899	12.920	VV	1906	20943	0.95%	0.038%
304	12.950	12.920	12.990	VV	172355	2070105	93.67%	3.773%
305	13.020	12.990	13.060	VV	5237	89447	4.05%	0.163%
306	13.072	13.060	13.080	VV	499	4542	0.21%	0.008%
307	13.102	13.080	13.118	VV	869	14171	0.64%	0.026%
308	13.138	13.118	13.173	VV	3747	57472	2.60%	0.105%
309	13.188	13.173	13.214	VV	1465	26474	1.20%	0.048%
310	13.242	13.214	13.265	VV	1894	33893	1.53%	0.062%
311	13.300	13.265	13.323	VV	3099	43399	1.96%	0.079%
312	13.354	13.323	13.379	VV	1416	34160	1.55%	0.062%
313	13.393	13.379	13.430	VV	983	23103	1.05%	0.042%
314	13.447	13.430	13.450	VV	556	6064	0.27%	0.011%
315	13.489	13.450	13.515	VV	1271	30102	1.36%	0.055%
316	13.536	13.515	13.554	VV	952	16376	0.74%	0.030%

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317	13.581	13.554	13.607	VV	1507	31157	1.41%	0.057%
318	13.631	13.607	13.660	VV	754	1659		
319	13.694	13.660	13.700	VV	658	1239		
320	13.715	13.700	13.730	VV	738	1176		
321	13.755	13.730	13.775	VV	1804	2881		
322	13.788	13.775	13.825	VV	1597	25256	1.14%	0.046%
323	13.834	13.825	13.859	VV	395	5995	0.27%	0.011%
324	13.891	13.859	13.906	VV	722	13327	0.60%	0.024%
325	13.933	13.906	13.985	VV	1617	41991	1.90%	0.077%
326	13.998	13.985	14.017	VV	714	10414	0.47%	0.019%
327	14.041	14.017	14.082	VV	1135	20476	0.93%	0.037%
328	14.153	14.082	14.187	VV	157582	2000598	90.52%	3.646%
329	14.208	14.187	14.223	VV	874	13817	0.63%	0.025%
330	14.242	14.223	14.263	VV	1294	19772	0.89%	0.036%
331	14.282	14.263	14.315	VV	1130	17840	0.81%	0.033%
332	14.323	14.315	14.344	VV	283	3622	0.16%	0.007%
333	14.363	14.344	14.387	VV	315	4880	0.22%	0.009%
334	14.424	14.387	14.463	VV	708	18928	0.86%	0.034%
335	14.487	14.463	14.502	VV	711	11044	0.50%	0.020%
336	14.514	14.502	14.525	VV	727	9433	0.43%	0.017%
337	14.542	14.525	14.585	VV	1409	30322	1.37%	0.055%
338	14.590	14.585	14.611	VV	475	4899	0.22%	0.009%
339	14.634	14.611	14.654	VV	923	14599	0.66%	0.027%
340	14.660	14.654	14.679	VV	623	7034	0.32%	0.013%
341	14.719	14.679	14.743	VV	2054	40081	1.81%	0.073%
342	14.770	14.743	14.797	VV	8070	104671	4.74%	0.191%
343	14.824	14.797	14.860	VV	1545	35908	1.62%	0.065%
344	14.876	14.860	14.910	VV	1088	18818	0.85%	0.034%
345	14.934	14.910	14.967	VV	1342	24847	1.12%	0.045%
346	14.999	14.967	15.018	VV	532	11047	0.50%	0.020%
347	15.057	15.018	15.093	VV	91555	1279802	57.91%	2.333%
348	15.099	15.093	15.118	VV	954	11967	0.54%	0.022%
349	15.139	15.118	15.164	VV	3453	46863	2.12%	0.085%
350	15.187	15.164	15.204	VV	914	14146	0.64%	0.026%
351	15.261	15.204	15.296	VV	148675	1969180	89.10%	3.589%
352	15.304	15.296	15.324	VV	715	9141	0.41%	0.017%
353	15.343	15.324	15.404	VV	1177	27230	1.23%	0.050%
354	15.423	15.404	15.435	VV	401	5458	0.25%	0.010%
355	15.442	15.435	15.475	VV	399	5575	0.25%	0.010%
356	15.494	15.475	15.518	PV	396	6504	0.29%	0.012%
357	15.532	15.518	15.568	VV	393	6256	0.28%	0.011%
358	15.639	15.568	15.714	VV	32899	559046	25.30%	1.019%
359	15.720	15.714	15.747	VV	540	9432	0.43%	0.017%
360	15.784	15.747	15.816	VV	1252	28902	1.31%	0.053%
361	15.856	15.816	15.885	VV	1191	26086	1.18%	0.048%
362	15.914	15.885	15.929	VV	338	5962	0.27%	0.011%
363	15.966	15.929	15.985	VV	566	12890	0.58%	0.023%
364	16.004	15.985	16.054	VV	770	20963	0.95%	0.038%

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365	16.072	16.054	16.092	VV	441	7788	0.35%	0.014%
366	16.102	16.092	16.129	VV	311	468		
367	16.162	16.129	16.179	PV	974	1545		
368	16.201	16.179	16.224	VV	846	1598		
369	16.286	16.224	16.332	VV	146617	192310		
370	16.359	16.332	16.402	VV	282	5538	0.25%	0.010%
371	16.432	16.402	16.454	PV	418	5388	0.24%	0.010%
372	16.498	16.454	16.542	VV	254	9068	0.41%	0.017%
373	16.579	16.542	16.592	VV	375	7535	0.34%	0.014%
374	16.660	16.592	16.700	VV	3333	74481	3.37%	0.136%
375	16.748	16.700	16.803	VV	3164	83955	3.80%	0.153%
376	16.851	16.803	16.859	PV	1080	15437	0.70%	0.028%
377	16.880	16.859	16.943	VV	3259	62227	2.82%	0.113%
378	16.963	16.943	16.986	VV	276	4492	0.20%	0.008%
379	17.068	16.986	17.100	VV	4059	83127	3.76%	0.152%
380	17.127	17.100	17.177	VV	4120	65634	2.97%	0.120%
381	17.240	17.177	17.270	VV	138096	1895206	85.76%	3.454%
382	17.288	17.270	17.349	VV	7353	123224	5.58%	0.225%
383	17.374	17.349	17.420	VV	931	28117	1.27%	0.051%
384	17.431	17.420	17.447	VV	548	6900	0.31%	0.013%
385	17.500	17.447	17.520	VV	1035	28380	1.28%	0.052%
386	17.531	17.520	17.551	VV	764	10728	0.49%	0.020%
387	17.607	17.551	17.665	VV	2175	77677	3.51%	0.142%
388	17.688	17.665	17.735	VV	3203	61329	2.78%	0.112%
389	17.741	17.735	17.759	VV	485	4403	0.20%	0.008%
390	17.787	17.759	17.813	VV	1475	26118	1.18%	0.048%
391	17.830	17.813	17.882	VV	782	14152	0.64%	0.026%
392	17.903	17.882	17.917	VV	265	3949	0.18%	0.007%
393	17.936	17.917	17.956	VV	263	3877	0.18%	0.007%
394	17.976	17.956	17.995	PV	393	6109	0.28%	0.011%
395	18.021	17.995	18.039	VV	1387	22145	1.00%	0.040%
396	18.082	18.039	18.095	VV	1429	30574	1.38%	0.056%
397	18.130	18.095	18.167	VV	130444	1858571	84.10%	3.387%
398	18.220	18.167	18.254	VV	1958	51700	2.34%	0.094%
399	18.281	18.254	18.297	VV	729	17301	0.78%	0.032%
400	18.352	18.297	18.381	VV	2062	59551	2.69%	0.109%
401	18.409	18.381	18.425	VV	2153	39251	1.78%	0.072%
402	18.448	18.425	18.459	VV	1730	31067	1.41%	0.057%
403	18.489	18.459	18.534	VV	19457	414035	18.73%	0.755%
404	18.553	18.534	18.612	VV	5324	112361	5.08%	0.205%
405	18.642	18.612	18.650	VV	2130	34526	1.56%	0.063%
406	18.663	18.650	18.685	VV	2072	37444	1.69%	0.068%
407	18.694	18.685	18.725	VV	1376	28126	1.27%	0.051%
408	18.753	18.725	18.781	VV	10010	143370	6.49%	0.261%
409	18.801	18.781	18.821	VV	1409	29351	1.33%	0.053%
410	18.843	18.821	18.857	VV	1233	24048	1.09%	0.044%
411	18.886	18.857	18.903	VV	2397	47659	2.16%	0.087%

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

rteres

412	18.916	18.903	18.925	VV	1791	23205	1.05%	0.042%
413	18.966	18.925	19.025	VV	123844	187073		
414	19.066	19.025	19.097	VV	2602	7341		
415	19.119	19.097	19.145	VV	1307	3369		
416	19.196	19.145	19.210	VV	1565	5226		
417	19.233	19.210	19.248	VV	1660	34526	1.56%	0.063%
418	19.273	19.248	19.289	VV	2334	48446	2.19%	0.088%
419	19.318	19.289	19.349	VV	13083	270128	12.22%	0.492%
420	19.365	19.349	19.404	VV	6961	164518	7.44%	0.300%
421	19.431	19.404	19.517	VV	4523	224598	10.16%	0.409%
422	19.559	19.517	19.578	VV	3109	101036	4.57%	0.184%
423	19.603	19.578	19.634	VV	3097	94167	4.26%	0.172%
424	19.656	19.634	19.669	VV	2935	57976	2.62%	0.106%
425	19.751	19.669	19.792	VV	118285	1931972	87.42%	3.521%
426	19.846	19.792	19.877	VV	5742	248264	11.23%	0.452%
427	19.912	19.877	19.940	VV	7753	223991	10.14%	0.408%
428	19.985	19.940	20.010	VV	6600	232971	10.54%	0.425%
429	20.061	20.010	20.074	VV	6300	228807	10.35%	0.417%
430	20.109	20.074	20.143	VV	8922	309302	14.00%	0.564%
431	20.154	20.143	20.175	VV	5931	106762	4.83%	0.195%
432	20.195	20.175	20.212	VV	5890	128222	5.80%	0.234%
433	20.291	20.212	20.313	VV	9845	465292	21.05%	0.848%
434	20.357	20.313	20.395	VV	8559	397398	17.98%	0.724%
435	20.493	20.395	20.532	VV	113607	2209998	100.00%	4.028%
436	20.650	20.532	20.680	VV	12287	842294	38.11%	1.535%
437	20.727	20.680	20.744	VV	11657	415624	18.81%	0.758%
438	20.766	20.744	20.787	VV	12356	312760	14.15%	0.570%
439	20.855	20.787	20.865	VV	13576	603593	27.31%	1.100%
440	20.873	20.865	20.915	VV	13464	393390	17.80%	0.717%
441	20.933	20.915	20.947	VV	12942	240815	10.90%	0.439%
442	20.960	20.947	20.982	VV	12394	255431	11.56%	0.466%
443	21.004	20.982	21.027	VV	12358	329021	14.89%	0.600%
444	21.065	21.027	21.110	VV	12224	593209	26.84%	1.081%
445	21.165	21.110	21.200	VV	11772	618799	28.00%	1.128%
446	21.245	21.200	21.290	VV	92292	2056590	93.06%	3.748%
447	21.332	21.290	21.350	VV	10708	380935	17.24%	0.694%
448	21.386	21.350	21.429	VV	11417	500963	22.67%	0.913%
449	21.459	21.429	21.482	VV	10297	323392	14.63%	0.589%
450	21.500	21.482	21.519	VV	10160	220495	9.98%	0.402%
451	21.579	21.519	21.638	VV	10565	735069	33.26%	1.340%
452	21.687	21.638	21.712	VV	10958	452474	20.47%	0.825%
453	21.720	21.712	21.781	VV	9926	369875	16.74%	0.674%
454	21.806	21.781	21.835	VV	8901	277831	12.57%	0.506%
455	21.854	21.835	21.884	VV	8539	246454	11.15%	0.449%
456	21.898	21.884	21.962	VV	8122	350829	15.87%	0.639%
457	21.986	21.962	22.025	VV	7673	258888	11.71%	0.472%
458	22.077	22.025	22.110	VV	7304	334762	15.15%	0.610%
459	22.187	22.110	22.245	VV	68350	1999541	90.48%	3.644%

rteres
Sum of corrected areas: 54865850

FG121924.M Tue Dec 24 01:59:54 2024

Instrument :
FID_G
ClientSampleId :
SB-01-20241219-9.0-9.5MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
I.BLK		FG015014.D	FG122324	TETRACOSANE-d50 (SURROGA	Ankita	12/27/2024 7:53:18 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG015015.D	FG122324	TETRACOSANE-d50 (SURROGA	Ankita	12/27/2024 7:53:20 AM	Peak Integrated by Software incorrectly
P5361-01		FG015018.D	FG122324	TETRACOSANE-d50 (SURROGA	Ankita	12/27/2024 7:53:21 AM	Peak Integrated by Software incorrectly
P5361-02MS		FG015020.D	FG122324	N-HEXATRIACONTANE	Ankita	12/27/2024 7:53:23 AM	Peak Integrated by Software incorrectly
P5361-02MS		FG015020.D	FG122324	N-OCTATRIACONTANE	Ankita	12/27/2024 7:53:23 AM	Peak Integrated by Software incorrectly
P5361-02MS		FG015020.D	FG122324	N-TETRACONTANE	Ankita	12/27/2024 7:53:23 AM	Peak Integrated by Software incorrectly
P5361-02MS		FG015020.D	FG122324	N-TETRATRIACONTANE	Ankita	12/27/2024 7:53:23 AM	Peak Integrated by Software incorrectly
P5361-02MS		FG015020.D	FG122324	TETRACOSANE-d50 (SURROGA	Ankita	12/27/2024 7:53:23 AM	Peak Integrated by Software incorrectly
PB165807BS		FG015025.D	FG122324	N-OCTATRIACONTANE	Ankita	12/27/2024 7:53:25 AM	Peak Integrated by Software incorrectly
P5361-02MSD		FG015026.D	FG122324	N-OCTATRIACONTANE	Ankita	12/27/2024 7:53:26 AM	Peak Integrated by Software incorrectly
P5318-01		FG015027.D	FG122324	TETRACOSANE-d50 (SURROGA	Ankita	12/27/2024 7:53:28 AM	Peak Integrated by Software incorrectly

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG121924

Review By	yogesh	Review On	12/19/2024 3:48:56 PM		
Supervise By	Ankita	Supervise On	12/20/2024 10:41:50 AM		
SubDirectory	FG121924	HP Acquire Method		HP Processing Method	FG121924

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014985.D	19 Dec 2024 13:06	YP\AJ	Ok
2	I.BLK	FG014986.D	19 Dec 2024 14:03	YP\AJ	Ok
3	100 TRPH STD	FG014987.D	19 Dec 2024 14:32	YP\AJ	Ok
4	50 TRPH STD	FG014988.D	19 Dec 2024 15:01	YP\AJ	Ok
5	20 TRPH STD	FG014989.D	19 Dec 2024 15:29	YP\AJ	Ok
6	10 TRPH STD	FG014990.D	19 Dec 2024 15:57	YP\AJ	Ok
7	5 TRPH STD	FG014991.D	19 Dec 2024 16:26	YP\AJ	Ok
8	FG121924ICV	FG014992.D	19 Dec 2024 16:54	YP\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG122324

Review By	yogesh	Review On	12/23/2024 11:51:29 AM		
Supervise By	Ankita	Supervise On	12/27/2024 7:53:40 AM		
SubDirectory	FG122324	HP Acquire Method		HP Processing Method	FG121924

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015013.D	23 Dec 2024 10:06	YP\AJ	Ok
2	I.BLK	FG015014.D	23 Dec 2024 10:34	YP\AJ	Ok,M
3	50 PPM TRPH STD	FG015015.D	23 Dec 2024 11:02	YP\AJ	Ok,M
4	RT MARKER	FG015016.D	23 Dec 2024 11:30	YP\AJ	Ok
5	P5318-01	FG015017.D	23 Dec 2024 11:58	YP\AJ	Ok
6	P5361-01	FG015018.D	23 Dec 2024 12:26	YP\AJ	Ok,M
7	P5361-02	FG015019.D	23 Dec 2024 12:54	YP\AJ	Ok
8	P5361-02MS	FG015020.D	23 Dec 2024 13:23	YP\AJ	Ok,M
9	I.BLK	FG015021.D	23 Dec 2024 13:51	YP\AJ	Ok
10	50 PPM TRPH STD	FG015022.D	23 Dec 2024 14:19	YP\AJ	Ok
11	P5362-01	FG015023.D	23 Dec 2024 15:16	YP\AJ	Ok
12	PB165807BL	FG015024.D	23 Dec 2024 15:44	YP\AJ	Ok
13	PB165807BS	FG015025.D	23 Dec 2024 16:12	YP\AJ	Ok,M
14	P5361-02MSD	FG015026.D	23 Dec 2024 16:41	YP\AJ	Ok,M
15	P5318-01	FG015027.D	23 Dec 2024 17:09	YP\AJ	Not Ok
16	I.BLK	FG015028.D	23 Dec 2024 17:37	YP\AJ	Ok
17	50 PPM TRPH STD	FG015029.D	23 Dec 2024 18:34	YP\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG121924

Review By	yogesh	Review On	12/19/2024 3:48:56 PM		
Supervise By	Ankita	Supervise On	12/20/2024 10:41:50 AM		
SubDirectory	FG121924	HP Acquire Method		HP Processing Method	FG121924

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

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014985.D	19 Dec 2024 13:06		YP\AJ	Ok
2	I.BLK		FG014986.D	19 Dec 2024 14:03		YP\AJ	Ok
3	100 TRPH STD		FG014987.D	19 Dec 2024 14:32		YP\AJ	Ok
4	50 TRPH STD		FG014988.D	19 Dec 2024 15:01		YP\AJ	Ok
5	20 TRPH STD		FG014989.D	19 Dec 2024 15:29		YP\AJ	Ok
6	10 TRPH STD		FG014990.D	19 Dec 2024 15:57		YP\AJ	Ok
7	5 TRPH STD		FG014991.D	19 Dec 2024 16:26		YP\AJ	Ok
8	FG121924ICV		FG014992.D	19 Dec 2024 16:54		YP\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG122324

Review By	yogesh	Review On	12/23/2024 11:51:29 AM		
Supervise By	Ankita	Supervise On	12/27/2024 7:53:40 AM		
SubDirectory	FG122324	HP Acquire Method		HP Processing Method	FG121924

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

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015013.D	23 Dec 2024 10:06		YP\AJ	Ok
2	I.BLK		FG015014.D	23 Dec 2024 10:34		YP\AJ	Ok,M
3	50 PPM TRPH STD		FG015015.D	23 Dec 2024 11:02		YP\AJ	Ok,M
4	RT MARKER		FG015016.D	23 Dec 2024 11:30		YP\AJ	Ok
5	P5318-01		FG015017.D	23 Dec 2024 11:58		YP\AJ	Ok
6	P5361-01		FG015018.D	23 Dec 2024 12:26		YP\AJ	Ok,M
7	P5361-02		FG015019.D	23 Dec 2024 12:54		YP\AJ	Ok
8	P5361-02MS		FG015020.D	23 Dec 2024 13:23		YP\AJ	Ok,M
9	I.BLK		FG015021.D	23 Dec 2024 13:51		YP\AJ	Ok
10	50 PPM TRPH STD		FG015022.D	23 Dec 2024 14:19		YP\AJ	Ok
11	P5362-01		FG015023.D	23 Dec 2024 15:16		YP\AJ	Ok
12	PB165807BL		FG015024.D	23 Dec 2024 15:44		YP\AJ	Ok
13	PB165807BS		FG015025.D	23 Dec 2024 16:12		YP\AJ	Ok,M
14	P5361-02MSD		FG015026.D	23 Dec 2024 16:41		YP\AJ	Ok,M
15	P5318-01		FG015027.D	23 Dec 2024 17:09	not required	YP\AJ	Not Ok
16	I.BLK		FG015028.D	23 Dec 2024 17:37		YP\AJ	Ok
17	50 PPM TRPH STD		FG015029.D	23 Dec 2024 18:34		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/23/2024

OVENTEMP IN Celsius(°C): 106
Time IN: 16:30
In Date: 12/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 12/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134046

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
P5318-01	AU-06-122024	15	1.15	8.84	9.99	8.77	86.2	
P5319-01	AUD-1617	16	1.00	1.00	2.00	2.00	100.0	wipe sample
P5361-01	SB-01-20241219-7.0-7.5	1	1.14	8.41	9.55	8.85	91.7	
P5361-02	SB-01-20241219-9.0-9.5	2	1.19	8.48	9.67	8.58	87.1	
P5362-01	WC-SOIL-20241219	3	1.13	8.70	9.83	9.13	92.0	
P5365-01	TAPFTA-SB01I-4.5-121924-00-T1	4	1.13	8.56	9.69	8.84	90.1	
P5369-05	SVOC-GPC-BLANK	5	1.00	1.00	2.00	2.00	100.0	
P5369-06	PEST-GPC-BLANK	6	1.00	1.00	2.00	2.00	100.0	
P5369-07	PEST-GPC-BLANK-SPIKE	7	1.00	1.00	2.00	2.00	100.0	
P5369-08	PCB-GPC-BLANK	8	1.00	1.00	2.00	2.00	100.0	
P5369-09	PCB-GPC-BLANK-SPIKE	9	1.00	1.00	2.00	2.00	100.0	
P5369-10	SVOC-GPC2-BLANK	10	1.00	1.00	2.00	2.00	100.0	
P5369-11	PEST-GPC2-BLANK	11	1.00	1.00	2.00	2.00	100.0	
P5369-12	PEST-GPC2-BLANK-SPIKE	12	1.00	1.00	2.00	2.00	100.0	
P5369-13	PCB-GPC2-BLANK	13	1.00	1.00	2.00	2.00	100.0	
P5369-14	PCB-GPC2-BLANK-SPIKE	14	1.00	1.00	2.00	2.00	100.0	
P5377-01	GAS-TRE-1119	17	1.00	1.00	2.00	2.00	100.0	wipe sample

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

WORKLIST(Hardcopy Internal Chain)

VB34046

WorkList Name : %1-122024 **WorkList ID :** 186509 **Department :** Wet-Chemistry **Date :** 12-20-2024 08:05:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5318-01	AU-06-122024	Solid	Percent Solids	Cool 4 deg C	PSEG05	N31	12/20/2024	Chemtech -SO
P5319-01	AUD-1617	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	12/20/2024	Chemtech -SO
P5361-01	SB-01-20241219-7.0-7.5	Solid	Percent Solids	Cool 4 deg C	PARS02	N12	12/20/2024	Chemtech -SO
P5361-02	SB-01-20241219-9.0-9.5	Solid	Percent Solids	Cool 4 deg C	PARS02	N12	12/20/2024	Chemtech -SO
P5362-01	WC-SOIL-20241219	Solid	Percent Solids	Cool 4 deg C	PARS02	N21	12/19/2024	Chemtech -SO
P5365-01	TAPFTA-SB01I-4.5-121924-00-	Solid	Percent Solids	Cool 4 deg C	WEST04	N21	12/19/2024	Chemtech -SO
P5369-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5369-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	N22	12/13/2024	Chemtech -SO
P5377-01	GAS-TRE-1119	Solid	Percent Solids	Cool 4 deg C	PSEG03	N13	12/20/2024	Chemtech -SO

Date/Time 12/20/24 16:15

Raw Sample Received by: TB (GDC)

Raw Sample Relinquished by: CB SM

Date/Time 12/20/24 17:30

Raw Sample Received by: CB SM

Raw Sample Relinquished by: SM GDC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165807

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 12/23/2024

Extraction Start Time : 08:35

Extraction End Date : 12/23/2024

Extraction End Time : 11:35

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared 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	EP2573
Sand	N/A	E2865
Methylene Chloride	N/A	E3848
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/23/24	RP (Ext Lab)	Y.P. pest PCB.
11:40	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165807

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 12/23/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165807BL	PB165807BL	TPH GC	30.01	N/A	ritesh	Evelyn	1			U4-1
PB165807BS	PB165807BS	TPH GC	30.02	N/A	ritesh	Evelyn	1			2
P5318-01	AU-06-122024	TPH GC	30.04	N/A	ritesh	Evelyn	1	E		3
P5361-01	SB-01-20241219-7.0-7.5	TPH GC	30.07	N/A	ritesh	Evelyn	1	B		4
P5361-02	SB-01-20241219-9.0-9.5	TPH GC	30.05	N/A	ritesh	Evelyn	1	B		5
P5361-02MS	SB-01-20241219-9.0-9.5 MS	TPH GC	30.03	N/A	ritesh	Evelyn	1	B		6
P5361-02MS D	SB-01-20241219-9.0-9.5 MSD	TPH GC	30.06	N/A	ritesh	Evelyn	1	B		U3-1
P5362-01	WC-SOIL-20241219	TPH GC	30.05	N/A	ritesh	Evelyn	1	E		2

* **Extracts relinquished on the same date as received.**

12/23/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5355N **WorkList ID :** 186560 **Department :** Extraction **Date :** 12-23-2024 08:31:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5318-01	AU-06-122024	Solid	TPH GC	Cool 4 deg C	PSEG05	N31	12/20/2024	8015D
P5361-01	SB-01-20241219-7.0-7.5	Solid	TPH GC	Cool 4 deg C	PARS02	N12	12/20/2024	8015D
P5361-02	SB-01-20241219-9.0-9.5	Solid	TPH GC	Cool 4 deg C	PARS02	N12	12/20/2024	8015D
P5362-01	WC-SOIL-20241219	Solid	TPH GC	Cool 4 deg C	PARS02	N21	12/19/2024	8015D

Date/Time 12/23/24 8:33
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: JD (SM)

Date/Time 12/24/24 8:55
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RJ (Ext Lab)

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : P5361

Test : TPH GC

Prepbatch ID : PB165807,

Sequence ID/Qc Batch ID: FG122324,

Standard ID :
EP2560,EP2573,PP23913,PP23935,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,

Chemical ID :
E2865,E3551,E3822,E3827,E3828,E3848,P11958,P11959,P13104,P13109,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

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Fax : 908 789 8922

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2573	12/16/2024	06/16/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/16/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3796	100/100 PPM DRO STD (CPI)	PP23962	11/13/2024	05/09/2025	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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3797	50 PPM DRO ICV STD (CPI)	PP23967	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 0.80000ml of E3828 + 0.50000ml of PP23962 = Final Quantity: 1.000 ml

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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	06/30/2025	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	07/01/2025	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)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

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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

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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

avantor™ | J.T.Baker®

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	<= 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

James T Ethier
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

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

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

avantor™ | J.T.Baker

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 HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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

JCroak
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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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

E3827

Recd by RP on ~~11/6~~ 11/7/24
RP 11/7

JCroak
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

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

avantor™ | J.T.Baker

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)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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

JCroak
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

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

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

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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 3848

JCroak
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
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

P11948 & P11962 } 7.8 07/11/2

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 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

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)

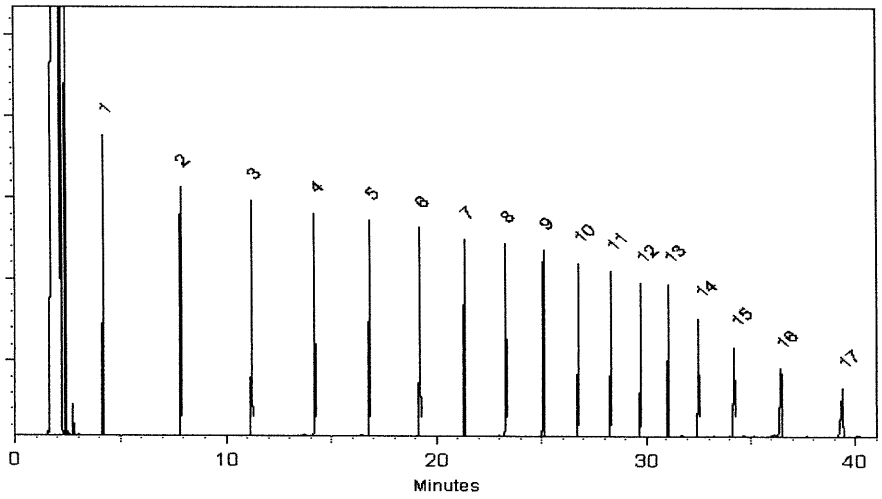
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 - Operations Tech I

Date Mixed: 29-Jun-2022 **Balance:** 1128360905

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:

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

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.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

P11948 & P11962 } 7.8 07/11/2

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 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

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)

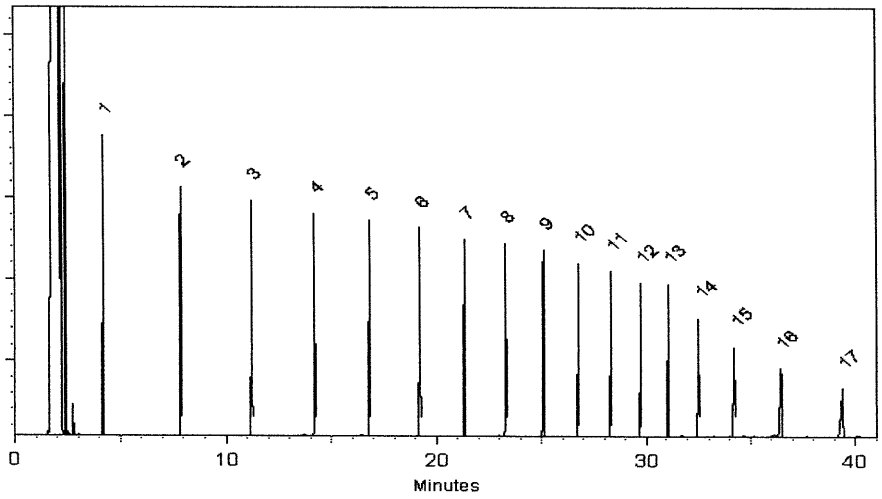
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 - Operations Tech I

Date Mixed: 29-Jun-2022 **Balance:** 1128360905

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:

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

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.

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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 → P13112 Y.P. 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

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.)

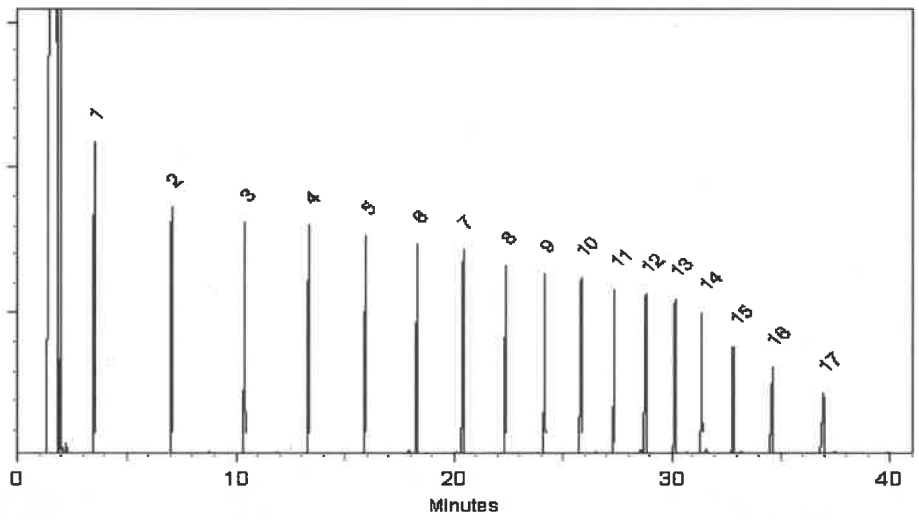
Inj. Temp:
250°C

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/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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  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.

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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 → P13112 Y.P. 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

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.)

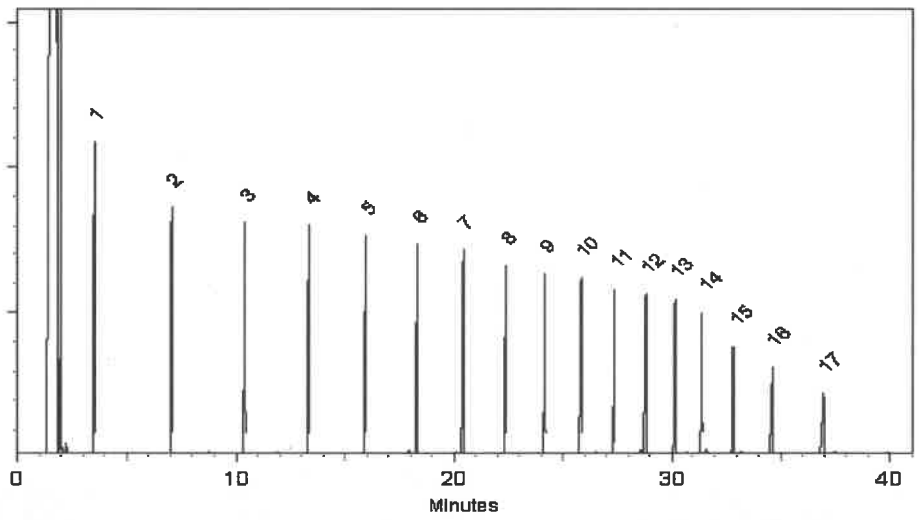
Inj. Temp:
250°C

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/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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  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.

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

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	72072
Lot Number:	101122
Description:	n-Tetracosane-d50
Expiration Date:	101132
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	1000
NIST Test ID#:	6UTB

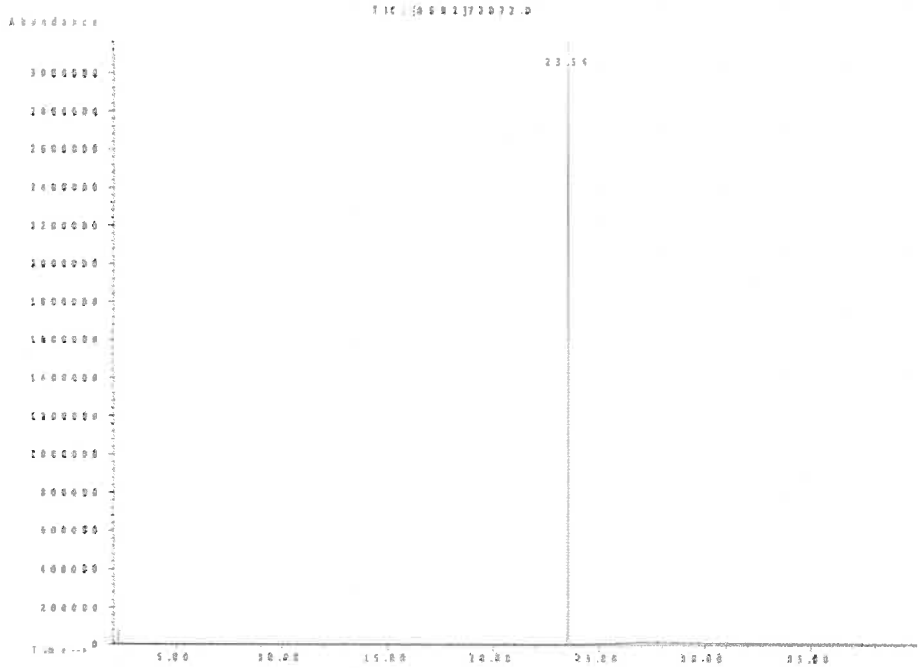
Solvent(s):	Lot#
Methylene chloride	105345

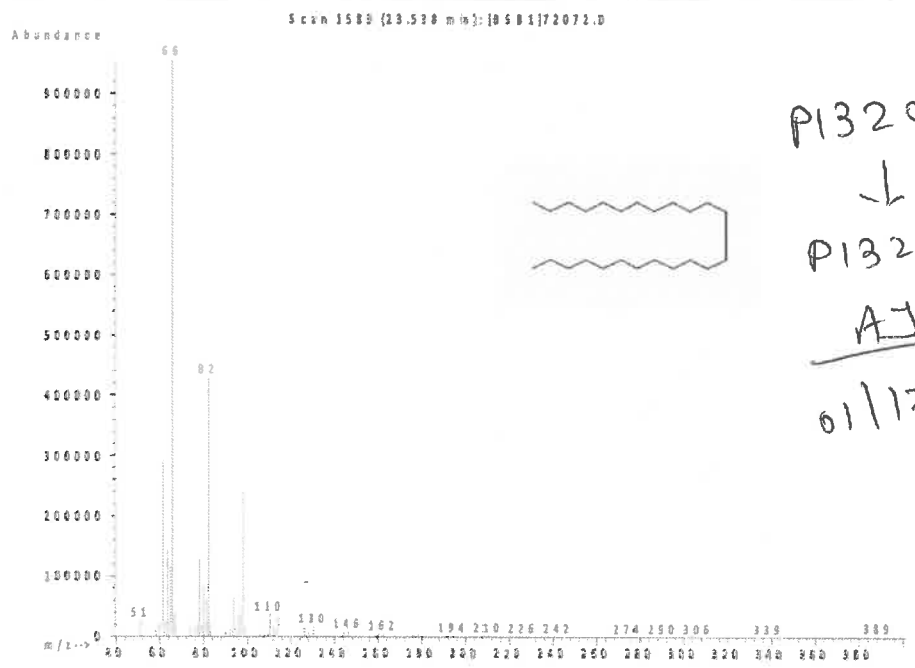
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	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.) CAS#	OSHA PEL (TWA)	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	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.





P13205
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P13214
AJ
01/17/24

- 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).

CPI INTERNATIONAL

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

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110400-05 -01	514983	≤ -10 Degrees C	Hexane	11/20/2028	TRPH Standard (C8-C40), 500 mg/L, 1 ml

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	368.271.1P	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
tetratriacontane (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

P13215
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P13224

AJ
01/31/24

*Not a certified value

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

Certified By: Andrea Schaible

Andrea Schaible
Chemist

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 gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
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Manufacturer's Quality System
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Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110400-05 -01	514983	≤ -10 Degrees C	Hexane	11/20/2028	TRPH Standard (C8-C40), 500 mg/L, 1 ml

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	368.271.1P	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
tetratriacontane (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

P 13215
↓
P 13224

AJ
01/31/24

*Not a certified value

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

Certified By: Andrea Schaible

Andrea Schaible
Chemist

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 gravimetricly.

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 +/- 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 +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-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: U_{CRM} 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

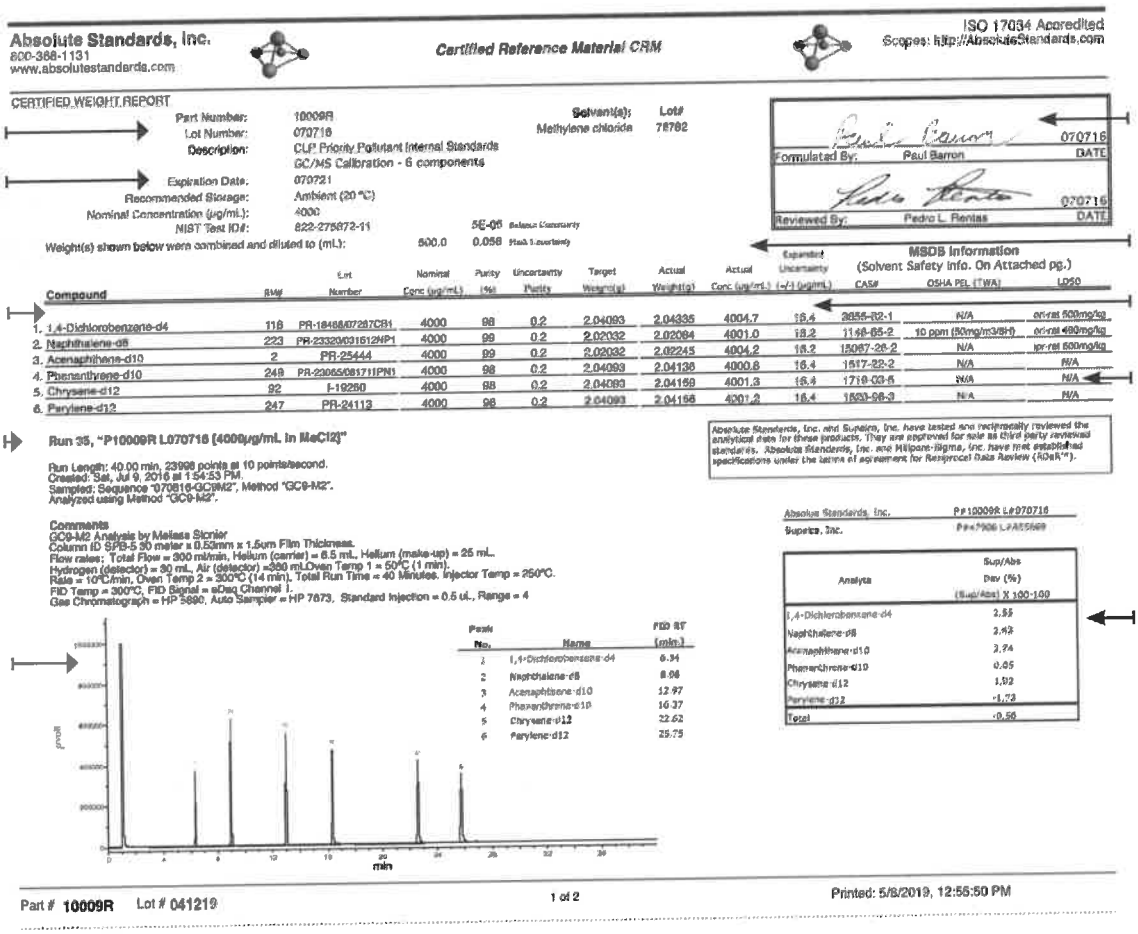
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

Formulated By: Paul Barron DATE 070716
Reviewed By: Pedro L. Reinas DATE 070716

Weight(s) shown below were combined and diluted to (mL): 500.0 0.058

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	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-18488/67267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233203/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-230655/61711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeCl2)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 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 = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part # / Lot # / Shelf Life

Formulator / Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative / Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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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
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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

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

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

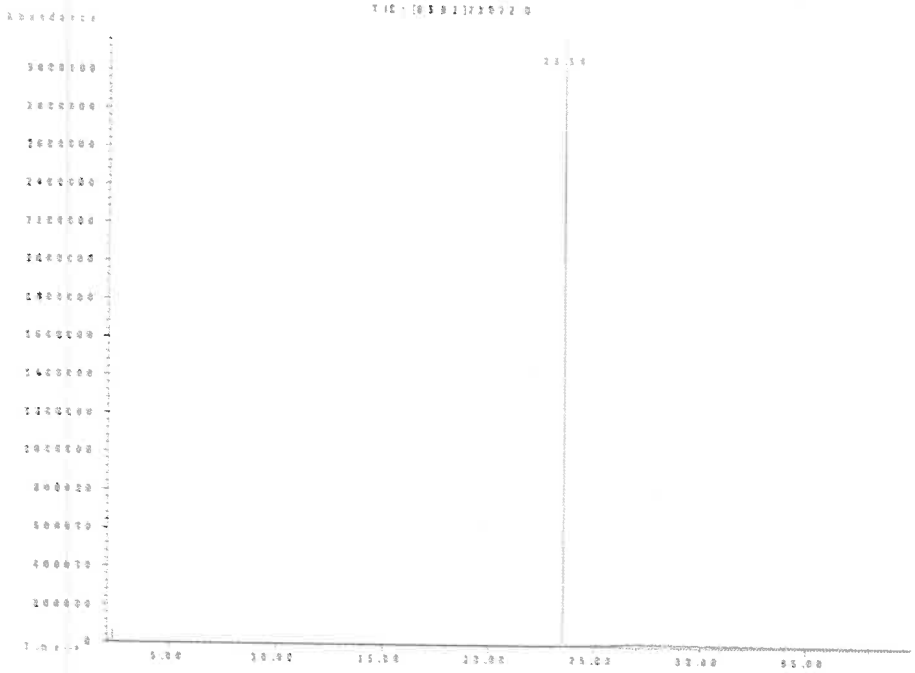
P13477 → P13496 } X.P. 07/24/24

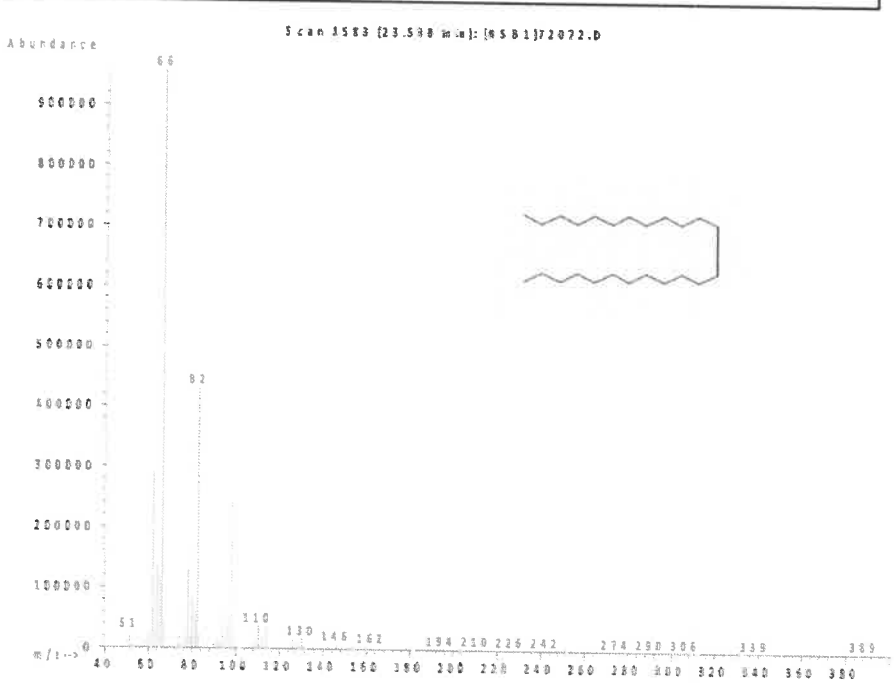
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	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	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 Result," 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 +/- 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 +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-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: U_{CRM} 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

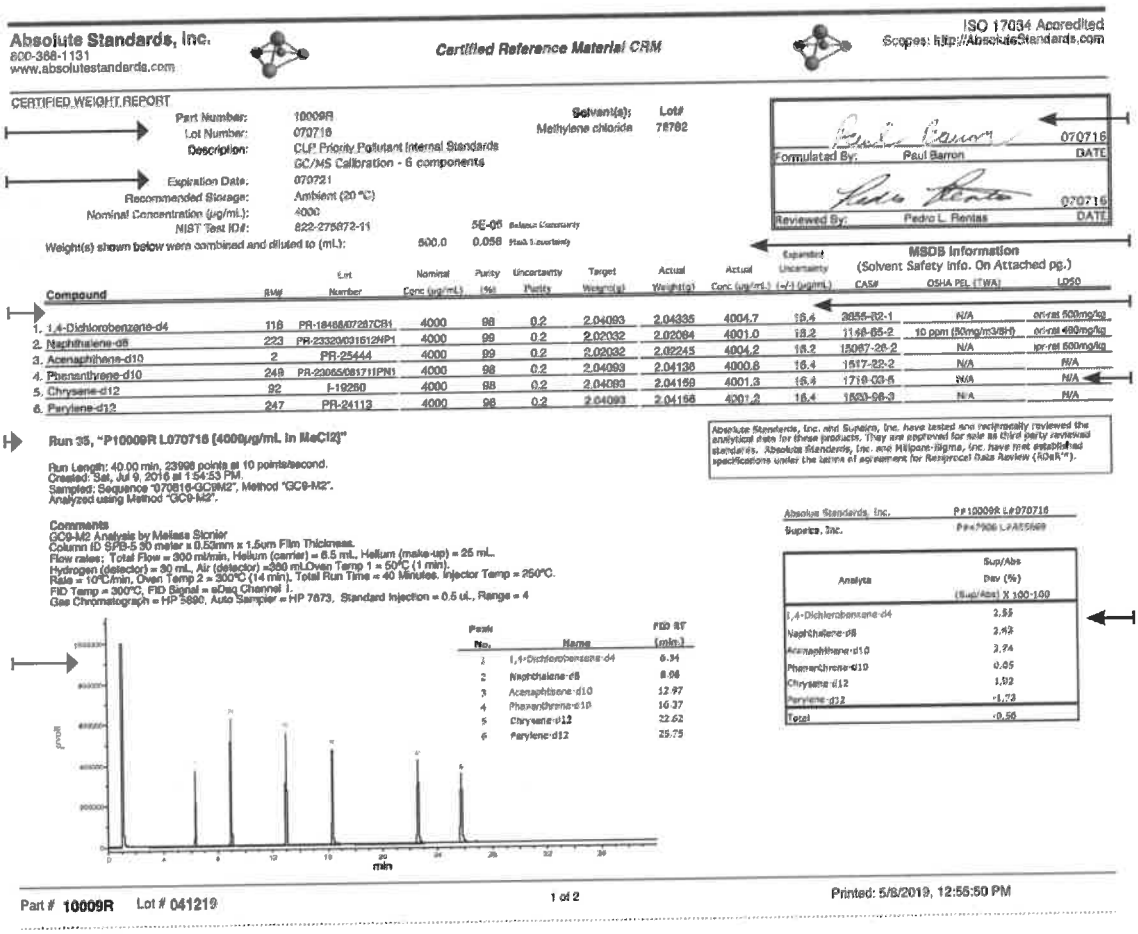
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

Formulated By: Paul Barron DATE 070716
Reviewed By: Pedro L. Reinas DATE 070716

Weight(s) shown below were combined and diluted to (mL): 500.0 0.058

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	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-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-230650/51711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeCl2)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 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 = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part # / Lot # / Shelf Life

Formulator / Reviewer

Actual Concentration

Uncertainty Values

Health & Safety

Target Compounds

Method of Analysis

3rd Party Comparison

Qualitative / Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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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
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

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

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

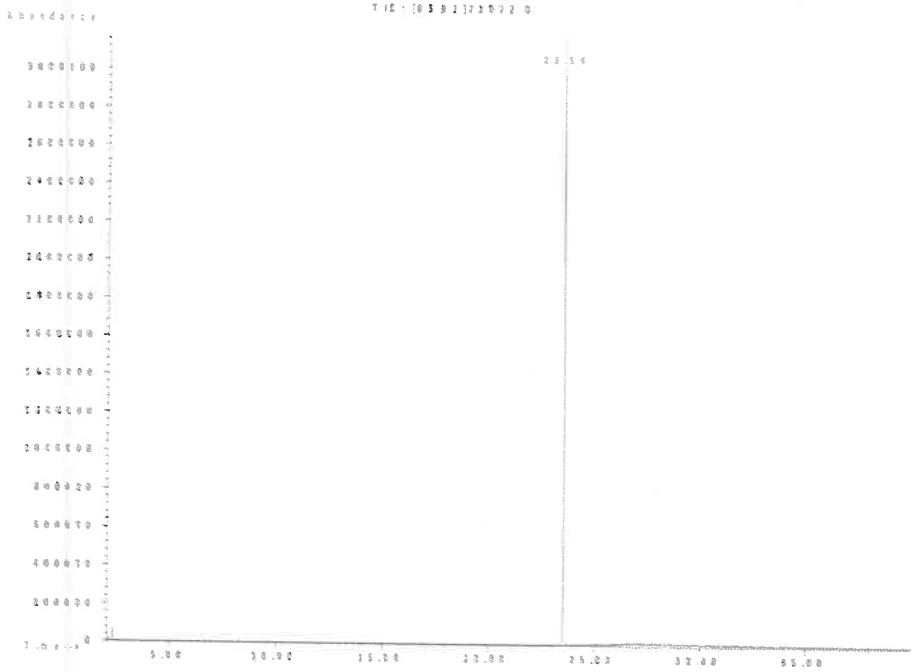
P13477 → P13496 } X.P. 07/24/24

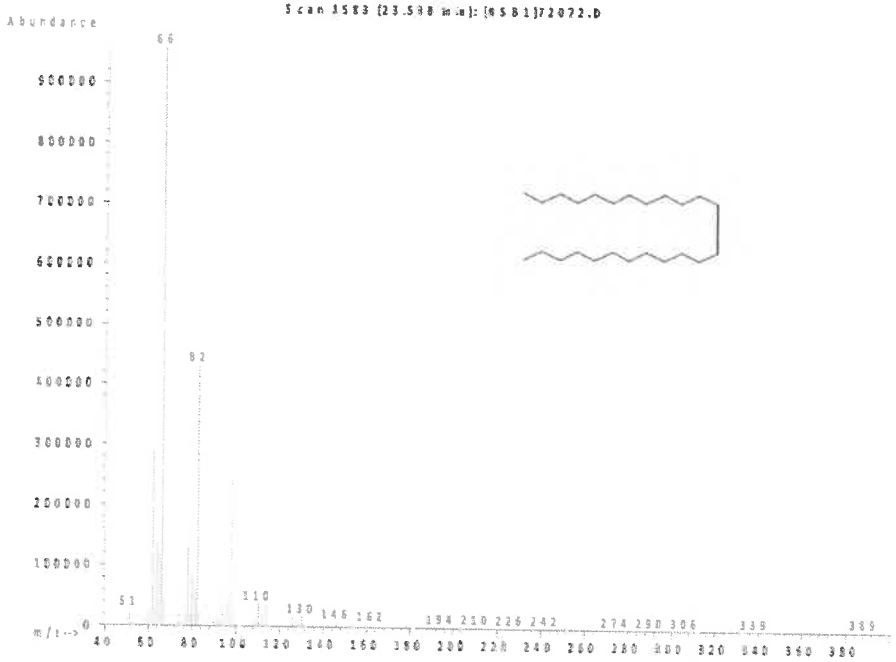
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	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	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 Result," 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 +/- 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 +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-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: U_{CRM} 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

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
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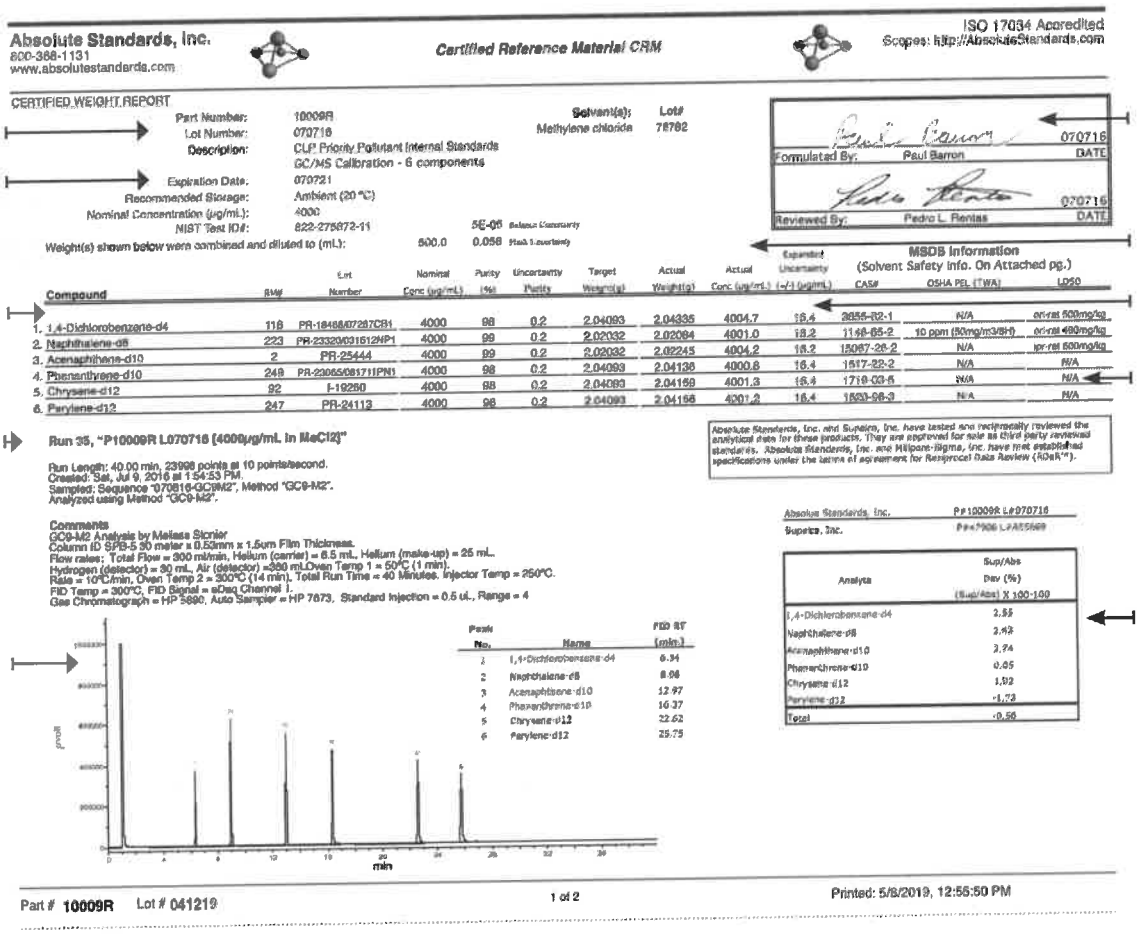
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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.
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www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

Formulated By: Paul Barron DATE 070716
Reviewed By: Pedro L. Reinas DATE 070716

Weight(s) shown below were combined and diluted to (mL): 500.0 0.058

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	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-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233203031612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-230605081711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeC12)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 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 = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part # / Lot # / Shelf Life

Formulator / Reviewer

Actual Concentration

Uncertainty Values

Health & Safety

Target Compounds

Method of Analysis

3rd Party Comparison

Qualitative / Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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Absolute Standards
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

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

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

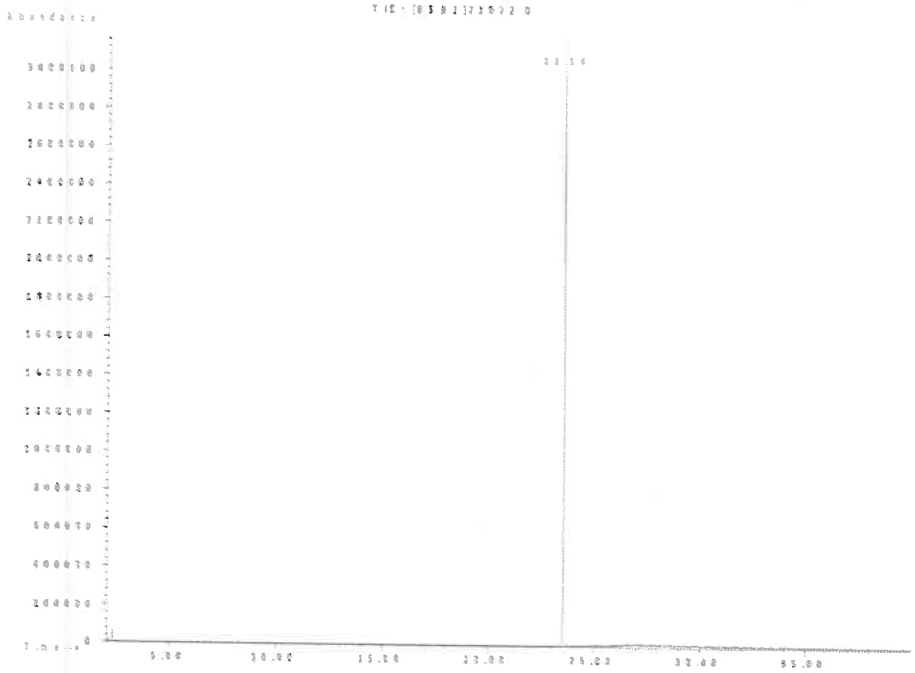
P13477 → P13496 } X.P. 07/24/24

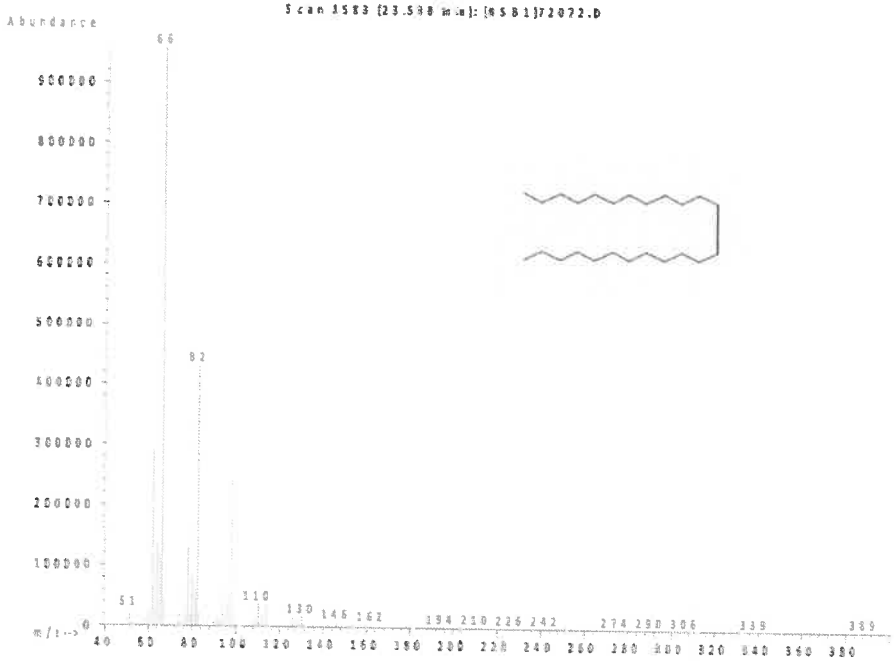
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	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	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.
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- 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).

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.

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Verification: Uncertainties that are due to the analytical procedure(s) are within +/-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.

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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

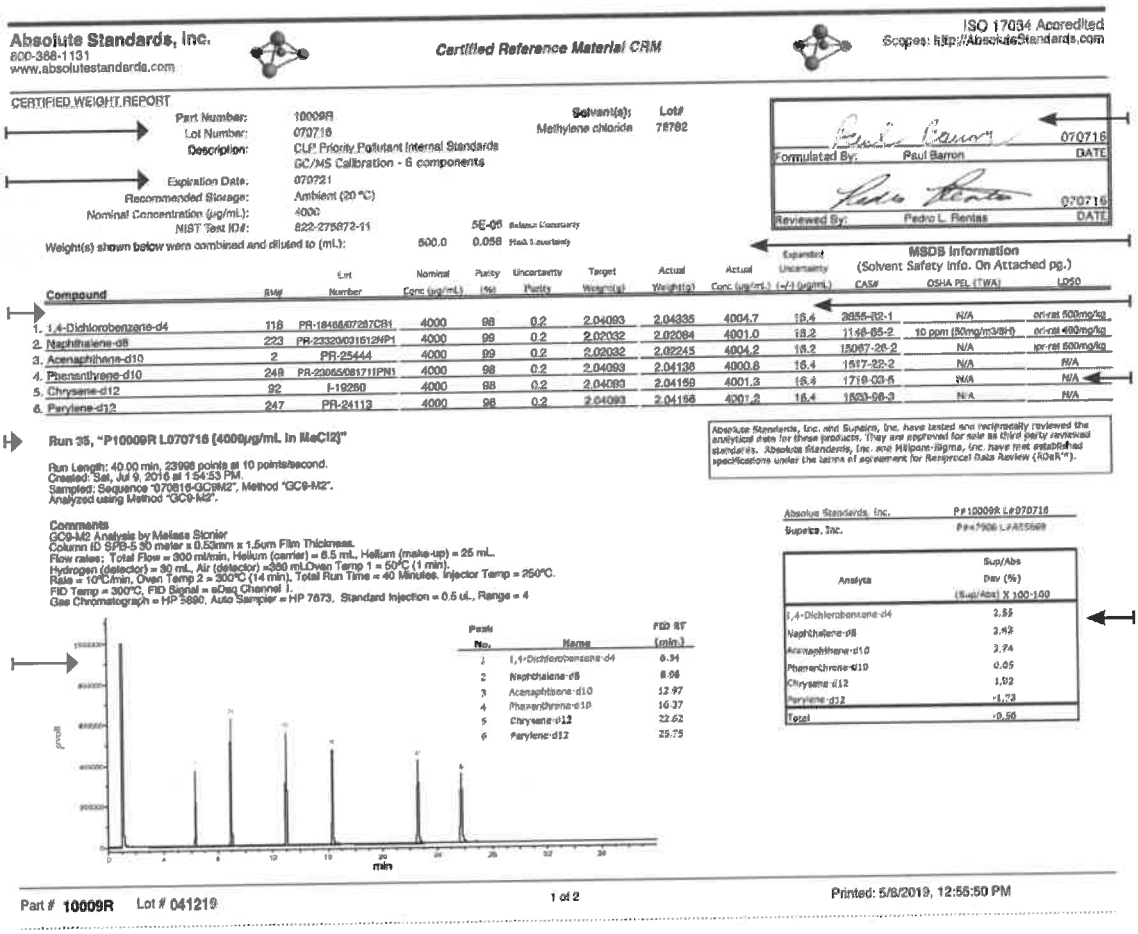
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

Formulated By: Paul Barron DATE 070716
Reviewed By: Pedro L. Rentas DATE 070716

Weight(s) shown below were combined and diluted to (mL): 500.0 0.058

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	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-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233203031612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-230605081711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeCl2)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 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 = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part # / Lot # / Shelf Life

Formulator / Reviewer

Actual Concentration

Uncertainty Values

Health & Safety

Target Compounds

Method of Analysis

3rd Party Comparison

Qualitative / Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

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

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

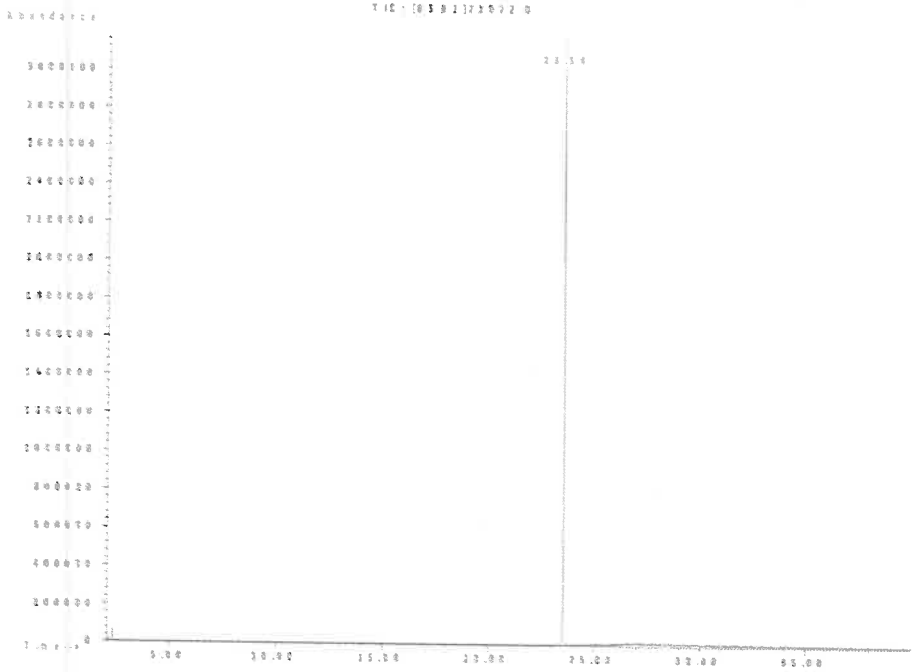
P13477 → P13496 } X.P. 07/24/24

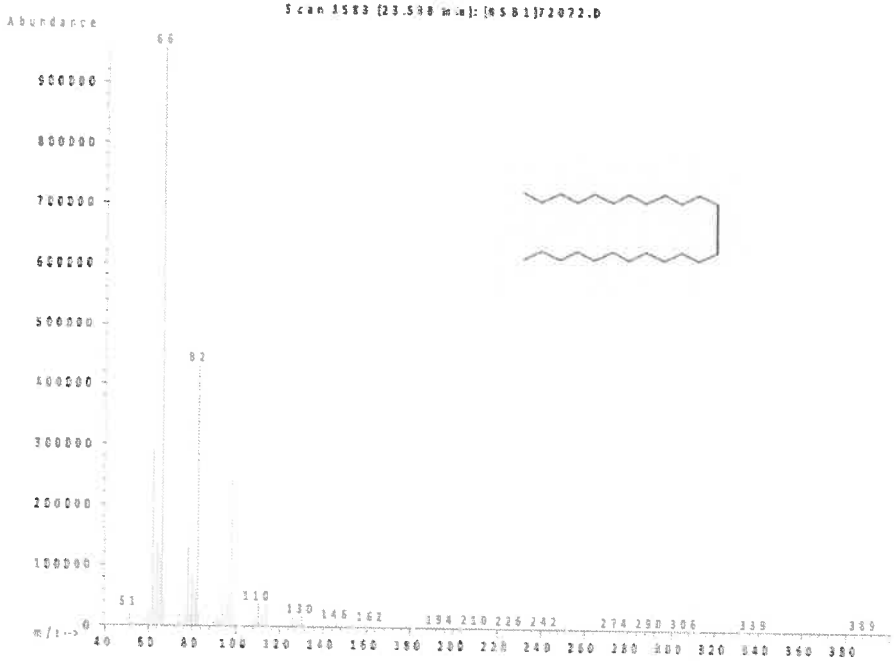
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	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	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 Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. / QUOTE NO. P5361
COC Number 2041515

CLIENT INFORMATION
REPORT TO BE SENT TO:
COMPANY: Parsons
ADDRESS: 301 Plainfield Road
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore
PHONE: (315)418-8767 FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME: ConEd East River Spill 2-4
PROJECT NO.: 453648 LOCATION: Manhattan NY
PROJECT MANAGER Stephen Liberatore
e-mail: Stephen.Liberatore@parsons.com
PHONE: (315) 418-8767 FAX: -

CLIENT BILLING INFORMATION
BILL TO: Parsons PO#: 453648
ADDRESS: 301 Plainfield Road
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: S. Liberatore PHONE: (315) 418-8767

DATA TURNAROUND INFORMATION
FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS
1 PCBs 2 TPH 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E	E								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	SB-01-20241219-7.0-7.5	Soil		X	12/19/24	1045	2	X	X								
2.	SB-01-20241219-9.0-9.5	Soil		X	12/19/24	1050	2	X	X								
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. K Valentin	12-19-24 / 1630	1. 1630 12-19-24
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.1 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Maryanne.Kosciewicz@parsons.com
Sent: Monday, March 10, 2025 2:21 PM
To: YAZMEEN@CHEMTECH.NET
Cc: Laura.Drachenberg@parsons.com; Kirsten.Valentini@parsons.com; Stephen.Liberatore@parsons.com
Subject: RE: ConEd - East River

Importance: High

Status update please.

From: Kosciewicz, Maryanne [US-US]
Sent: Thursday, March 6, 2025 12:53 PM
To: YAZMEEN@CHEMTECH.NET
Cc: Drachenberg, Laura [US-US] <Laura.Drachenberg@parsons.com>; Valentini, Kirsten [US-US] <Kirsten.Valentini@parsons.com>; Liberatore, Stephen [US-US] <Stephen.Liberatore@parsons.com>
Subject: ConEd - East River

Hi Yazmeen,

Could you please provide a level 4 (or NYSDEC Category B) lab report for East River SDG **P5361**?

Thanks,
Maryanne

Maryanne Kosciewicz
Senior QA Chemist
301 Plainfield Road, Suite 350 – Syracuse, NY 13212
maryanne.kosciewicz@parsons.com – +1 315.469.4380 Home Office

www.parsons.com | LinkedIn | Twitter | Facebook

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