

DATA PACKAGE GC SEMI-VOLATILES

PROJECT NAME : NYCDDC SANTWOBR BROOKLYN BRIDGE BBMCR

**RU2 ENGINEERING, LLC
2 Melinda Drive**

**Monroe Township, NJ - 08831
Phone No: 732-261-2236**

**ORDER ID : Q1235
ATTENTION : Rutu Manani**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1235

Project ID : NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Client : RU2 Engineering, LLC

Lab Sample Number

Q1235-01
Q1235-02
Q1235-03
Q1235-04
Q1235-05
Q1235-06
Q1235-07
Q1235-08

Client Sample Number

JPP-51.2-012925
JPP-51.2-012925
JPP-51.2-012925
JPP-51.2-012925
JPP-16.1-012925
JPP-16.1-012925
JPP-16.1-012925
JPP-16.1-012925

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: 2/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

RU2 Engineering, LLC

Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Project # N/A

Chemtech Project # Q1235

Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:

8 Solid samples were received on 01/30/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL and VOCMS Group1. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:

The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. 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 Diesel Range Organics 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 {Q1241-05MS} with File ID: FE052181.D recoveries met the requirements for all compounds except for DRO[-241.5%] Due to matrix interference.

The MSD {Q1241-05MSD} with File ID: FE052182.D recoveries met the acceptable requirements except for DRO[-214.5%] 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 .



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Phone: 908 789 8900 Fax: 908 789 8922

Samples JPP-51.2-012925, JPP-16.1-012925 was diluted due to bad matrix. The above sample original run is reported as screening data in miscellaneous data.

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.

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_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1235

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 {Q1241-05MS} with File ID: FE052181.D recoveries met the requirements for all compounds except for DRO[-241.5%] Due to matrix interference. The MSD {Q1241-05MSD} with File ID: FE052182.D recoveries met the acceptable requirements except for DRO[-214.5%] 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:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

Samples JPP-51.2-012925, JPP-16.1-012925 was diluted due to bad matrix. The above sample original run is reported as screening data in miscellaneous data.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1235

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: 02/07/2025

LAB CHRONICLE

OrderID:	Q1235	OrderDate:	1/30/2025 12:15:00 PM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1235-01	JPP-51.2-012925	SOIL	Diesel Range Organics	8015D	01/29/25	01/31/25	01/31/25	01/30/25
Q1235-04	JPP-51.2-012925	TCLP	TCLP Herbicide TCLP Pesticide	8151A 8081B	01/29/25	01/31/25 01/31/25	02/01/25 02/03/25	01/30/25
Q1235-05	JPP-16.1-012925	SOIL	Diesel Range Organics	8015D	01/29/25	01/31/25	01/31/25	01/30/25
Q1235-08	JPP-16.1-012925	TCLP	TCLP Herbicide TCLP Pesticide	8151A 8081B	01/29/25	01/31/25 01/31/25	02/01/25 02/03/25	01/30/25



QC SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: RU2 Engineering, LLC
Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FE052167.D	90				0
PIBLK-FE052179.D	82				0
PIBLK-FE052189.D	87				0
PIBLK-FG015282.D	83				0
PIBLK-FG015291.D	80				0
PB166415BL	87				0
PB166415BS	94				0
JPP-51.2-012925	56				0
JPP-16.1-012925	57				0
JPP-5.3-013025MS	64				0
JPP-5.3-013025MSD	62				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130
For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** RU2 Engineering, LLC
Lab Code: CHEM **Cas No:** Q1235 **SAS No :** Q1235 **SDG No:** Q1235
Client SampleID : JPP-5.3-013025MS **Datafile:** FE052181.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7453	168000	150000	-242%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** RU2 Engineering, LLC
Lab Code: CHEM **Cas No:** Q1235 **SAS No :** Q1235 **SDG No:** Q1235
Client SampleID : JPP-5.3-013025MSD **Datafile:** FE052182.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7460	168000	152000	-214%	*	68-131

MS/MSD % Recovery RPD : 12.28

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

Lab Name: Chemtech **Client:** RU2 Engineering, LLC
Lab Code: CHEM **Cas No:** Q1235 **SAS No :** Q1235 **SDG No:** Q1235
Matrix Spike - EPA Sample No : PB166415BS **Datafile:** FE052172.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6660	0	6353	95	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166415BL

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235

SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: FE052171.D

Lab Sample ID: PB166415BL

Instrument ID: FE

Date Extracted: 01/31/2025

Matrix: (soil/water) Soil

Date Analyzed: 01/31/25

Level: (low/med) low

Time Analyzed: 12:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166415BS	PB166415BS	FE052172.D	01/31/25
JPP-5.3-013025MS	Q1241-05MS	FE052181.D	01/31/25
JPP-5.3-013025MSD	Q1241-05MSD	FE052182.D	01/31/25
JPP-51.2-012925	Q1235-01	FG015289.D	01/31/25
JPP-16.1-012925	Q1235-05	FG015290.D	01/31/25

COMMENTS: _____



SAMPLE DATA

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-51.2-012925	SDG No.:	Q1235
Lab Sample ID:	Q1235-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.2
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015289.D	10	01/31/25 08:50	01/31/25 20:33	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	132000		2020	18200	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.13		37 - 130	56%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015289.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 20:33
Operator : YP\AJ
Sample : Q1235-01 10X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-51.2-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:18:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
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...	15.056	145025	1.131 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

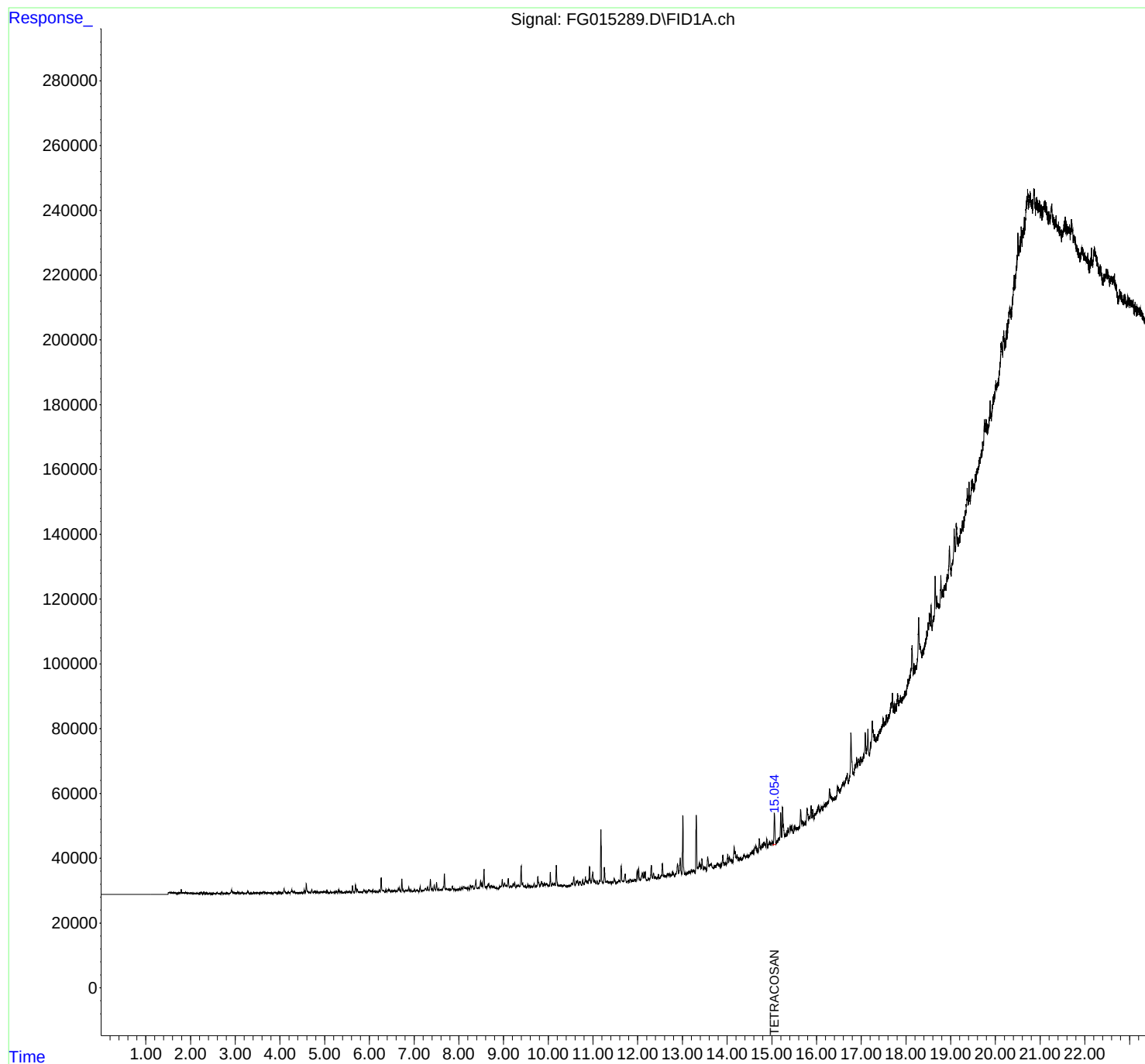
(m)=manual int.

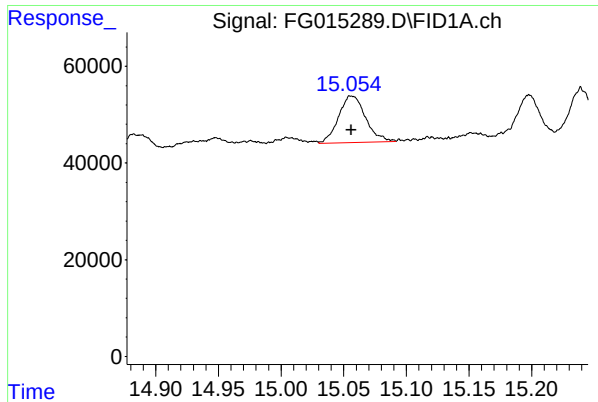
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015289.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 20:33
Operator : YP\AJ
Sample : Q1235-01 10X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-51.2-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:18:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.056 min
Delta R.T.: 0.000 min
Response: 145025
Conc: 1.13 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-51.2-012925

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015289.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 20:33
Sample : Q1235-01 10X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.371	4.350	4.387	BH	17	-403	-0.02%	-0.001%
2	4.391	4.387	4.403	PH	-41	-573	-0.03%	-0.001%
3	4.436	4.403	4.465	PH	92	-582	-0.03%	-0.001%
4	4.481	4.465	4.495	PH	132	304	0.01%	0.001%
5	4.495	4.495	4.509	PH	76	-179	-0.01%	-0.000%
6	4.518	4.509	4.525	PH	30	-96	-0.00%	-0.000%
7	4.544	4.525	4.565	PH	906	9452	0.43%	0.019%
8	4.590	4.565	4.647	HH	2876	40035	1.82%	0.079%
9	4.659	4.647	4.684	HH	224	2827	0.13%	0.006%
10	4.714	4.684	4.745	HH	1049	14908	0.68%	0.029%
11	4.774	4.745	4.816	HH	538	10918	0.50%	0.022%
12	4.831	4.816	4.844	HH	415	4432	0.20%	0.009%
13	4.856	4.844	4.871	HH	290	2847	0.13%	0.006%
14	4.875	4.871	4.881	HH	151	685	0.03%	0.001%
15	4.887	4.881	4.898	HH	222	1374	0.06%	0.003%
16	4.914	4.898	4.951	HH	313	7435	0.34%	0.015%
17	4.966	4.951	4.990	HH	536	6681	0.30%	0.013%
18	5.009	4.990	5.033	HH	419	6402	0.29%	0.013%
19	5.053	5.033	5.082	HH	549	8670	0.40%	0.017%
20	5.086	5.082	5.091	HH	129	457	0.02%	0.001%
21	5.097	5.091	5.101	HH	68	280	0.01%	0.001%
22	5.130	5.101	5.145	PH	338	3505	0.16%	0.007%
23	5.156	5.145	5.181	HH	225	2965	0.14%	0.006%
24	5.185	5.181	5.189	HH	139	631	0.03%	0.001%
25	5.201	5.189	5.208	HH	164	1483	0.07%	0.003%
26	5.227	5.208	5.241	HH	304	3899	0.18%	0.008%
27	5.257	5.241	5.283	HH	542	7776	0.35%	0.015%
28	5.310	5.283	5.323	HH	921	8302	0.38%	0.016%
29	5.336	5.323	5.353	HH	499	6442	0.29%	0.013%
30	5.368	5.353	5.409	HH	609	8893	0.41%	0.018%
31	5.435	5.409	5.450	HH	203	2788	0.13%	0.005%
32	5.468	5.450	5.480	HH	266	3491	0.16%	0.007%
33	5.493	5.480	5.518	HH	572	7929	0.36%	0.016%
34	5.532	5.518	5.553	HH	422	6495	0.30%	0.013%
35	5.567	5.553	5.586	HH	432	5916	0.27%	0.012%
36	5.595	5.586	5.602	HH	230	1430	0.07%	0.003%

					nteres				
37	5.623	5.602	5.659	HH	2278	27030	1.23%	0.053%	
38	5.663	5.659	5.670	HH	141	896	0.04%	0.002%	
39	5.690	5.670	5.714	HH	2513	32894	1.50%	0.065%	
40	5.729	5.714	5.772	HH	1030	18635	0.85%	0.037%	
41	5.776	5.772	5.792	HH	229	2363	0.11%	0.005%	
42	5.802	5.792	5.837	HH	309	6516	0.30%	0.013%	
43	5.842	5.837	5.847	HH	246	1267	0.06%	0.002%	
44	5.881	5.847	5.905	HH	834	17053	0.78%	0.034%	
45	5.921	5.905	5.940	HH	688	8343	0.38%	0.016%	
46	5.958	5.940	5.969	HH	496	6396	0.29%	0.013%	
47	5.986	5.969	6.000	HH	991	14882	0.68%	0.029%	
48	6.005	6.000	6.033	HH	849	11152	0.51%	0.022%	
49	6.039	6.033	6.053	HH	497	5330	0.24%	0.011%	
50	6.080	6.053	6.101	HH	899	15280	0.70%	0.030%	
51	6.107	6.101	6.115	HH	380	2944	0.13%	0.006%	
52	6.125	6.115	6.151	HH	479	7235	0.33%	0.014%	
53	6.170	6.151	6.193	HH	685	9855	0.45%	0.019%	
54	6.224	6.193	6.243	HH	797	14422	0.66%	0.028%	
55	6.264	6.243	6.298	HH	4734	59249	2.70%	0.117%	
56	6.301	6.298	6.309	HH	696	4496	0.20%	0.009%	
57	6.325	6.309	6.342	HH	706	10740	0.49%	0.021%	
58	6.370	6.342	6.391	HH	961	15344	0.70%	0.030%	
59	6.412	6.391	6.423	HH	841	12004	0.55%	0.024%	
60	6.434	6.423	6.478	HH	1032	22009	1.00%	0.043%	
61	6.495	6.478	6.508	HH	726	9283	0.42%	0.018%	
62	6.520	6.508	6.535	HH	638	9199	0.42%	0.018%	
63	6.560	6.535	6.586	HH	752	19385	0.88%	0.038%	
64	6.602	6.586	6.616	HH	639	10033	0.46%	0.020%	
65	6.621	6.616	6.628	HH	551	3714	0.17%	0.007%	
66	6.650	6.628	6.662	HH	1181	17603	0.80%	0.035%	
67	6.673	6.662	6.695	HH	1443	19252	0.88%	0.038%	
68	6.727	6.695	6.753	HH	4363	57142	2.60%	0.113%	
69	6.759	6.753	6.780	HH	903	11061	0.50%	0.022%	
70	6.810	6.780	6.830	HH	927	18691	0.85%	0.037%	
71	6.845	6.830	6.862	HH	853	13732	0.63%	0.027%	
72	6.881	6.862	6.909	HH	1747	27423	1.25%	0.054%	
73	6.924	6.909	6.943	HH	906	15166	0.69%	0.030%	
74	6.953	6.943	6.971	HH	665	9531	0.43%	0.019%	
75	6.987	6.971	6.996	HH	686	8874	0.40%	0.017%	
76	7.012	6.996	7.031	HH	1206	16610	0.76%	0.033%	
77	7.054	7.031	7.068	HH	923	15344	0.70%	0.030%	
78	7.071	7.068	7.110	HH	842	16351	0.75%	0.032%	
79	7.136	7.110	7.167	HH	1897	33328	1.52%	0.066%	
80	7.176	7.167	7.182	HH	692	5397	0.25%	0.011%	
81	7.188	7.182	7.193	HH	623	4124	0.19%	0.008%	
82	7.206	7.193	7.226	HH	814	14486	0.66%	0.029%	
83	7.261	7.226	7.280	HH	1431	35110	1.60%	0.069%	
84	7.303	7.280	7.331	HH	1885	34764	1.58%	0.069%	
85	7.366	7.331	7.396	HH	4212	73754	3.36%	0.145%	
86	7.408	7.396	7.433	HH	1431	23161	1.06%	0.046%	
87	7.452	7.433	7.484	HH	2469	43883	2.00%	0.087%	
88	7.504	7.484	7.533	HH	3268	49736	2.27%	0.098%	
89	7.552	7.533	7.569	HH	1256	21638	0.99%	0.043%	

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90	7.578	7.569	7.590	HH	935	10842	0.49%	0.021%
91	7.601	7.590	7.609	HH	990	10305	0.47%	0.020%
92	7.657	7.609	7.664	HH	2075	42624	1.94%	0.084%
93	7.679	7.664	7.702	HH	5819	73998	3.37%	0.146%
94	7.719	7.702	7.736	HH	1282	23262	1.06%	0.046%
95	7.741	7.736	7.784	HH	1172	30180	1.38%	0.060%
96	7.801	7.784	7.832	HH	1142	27940	1.27%	0.055%
97	7.854	7.832	7.890	HH	2097	47593	2.17%	0.094%
98	7.906	7.890	7.930	HH	1155	23534	1.07%	0.046%
99	7.947	7.930	7.960	HH	998	16020	0.73%	0.032%
100	7.971	7.960	7.986	HH	1035	15041	0.69%	0.030%
101	8.000	7.986	8.005	HH	1203	12364	0.56%	0.024%
102	8.019	8.005	8.040	HH	1367	25216	1.15%	0.050%
103	8.072	8.040	8.091	HH	1879	42021	1.92%	0.083%
104	8.113	8.091	8.133	HH	2050	40666	1.85%	0.080%
105	8.143	8.133	8.158	HH	1649	23197	1.06%	0.046%
106	8.166	8.158	8.189	HH	1575	25498	1.16%	0.050%
107	8.209	8.189	8.228	HH	1716	32596	1.49%	0.064%
108	8.258	8.228	8.280	HH	2341	52251	2.38%	0.103%
109	8.293	8.280	8.305	HH	2106	28376	1.29%	0.056%
110	8.315	8.305	8.335	HH	2202	31111	1.42%	0.061%
111	8.339	8.335	8.344	HH	1253	6086	0.28%	0.012%
112	8.383	8.344	8.422	HH	3976	98954	4.51%	0.195%
113	8.441	8.422	8.455	HH	1586	29394	1.34%	0.058%
114	8.488	8.455	8.504	HH	3819	72048	3.28%	0.142%
115	8.516	8.504	8.533	HH	3168	44470	2.03%	0.088%
116	8.565	8.533	8.596	HH	7282	131193	5.98%	0.259%
117	8.610	8.596	8.627	HH	1893	32217	1.47%	0.064%
118	8.671	8.627	8.699	HH	2937	95906	4.37%	0.189%
119	8.727	8.699	8.745	HH	2326	52899	2.41%	0.104%
120	8.764	8.745	8.774	HH	2062	32262	1.47%	0.064%
121	8.787	8.774	8.803	HH	1973	30807	1.40%	0.061%
122	8.812	8.803	8.833	HH	1616	26734	1.22%	0.053%
123	8.845	8.833	8.882	HH	1695	42534	1.94%	0.084%
124	8.902	8.882	8.907	HH	1800	22093	1.01%	0.044%
125	8.928	8.907	8.936	HH	2057	31177	1.42%	0.061%
126	8.945	8.936	8.953	HH	2086	20469	0.93%	0.040%
127	8.974	8.953	9.004	HH	4119	83417	3.80%	0.164%
128	9.023	9.004	9.048	HH	3071	65172	2.97%	0.129%
129	9.060	9.048	9.080	HH	2307	42083	1.92%	0.083%
130	9.107	9.080	9.133	HH	4445	91902	4.19%	0.181%
131	9.160	9.133	9.184	HH	2250	58382	2.66%	0.115%
132	9.187	9.184	9.199	HH	1966	17148	0.78%	0.034%
133	9.218	9.199	9.235	HH	2895	52023	2.37%	0.103%
134	9.252	9.235	9.274	HH	3225	57868	2.64%	0.114%
135	9.292	9.274	9.305	HH	2157	36795	1.68%	0.073%
136	9.312	9.305	9.325	HH	2302	26946	1.23%	0.053%
137	9.340	9.325	9.357	HH	2382	43257	1.97%	0.085%
138	9.396	9.357	9.418	HH	8346	146228	6.66%	0.288%
139	9.430	9.418	9.467	HH	3068	69121	3.15%	0.136%
140	9.481	9.467	9.513	HH	2118	52364	2.39%	0.103%
141	9.546	9.513	9.566	HH	2801	66722	3.04%	0.132%

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142	9.577	9.566	9.600	HH	2393	41587	1.90%	0.082%
143	9.602	9.600	9.610	HH	2029	12095	0.55%	0.024%
144	9.630	9.610	9.647	HH	2134	42333	1.93%	0.083%
145	9.683	9.647	9.710	HH	2828	83117	3.79%	0.164%
146	9.731	9.710	9.745	HH	2228	42026	1.92%	0.083%
147	9.769	9.745	9.815	HH	5025	131497	5.99%	0.259%
148	9.819	9.815	9.826	HH	2291	14756	0.67%	0.029%
149	9.849	9.826	9.882	HH	3395	91781	4.18%	0.181%
150	9.912	9.882	9.941	HH	2994	90974	4.15%	0.179%
151	9.958	9.941	9.994	HH	2826	80964	3.69%	0.160%
152	10.010	9.994	10.025	HH	2371	42247	1.93%	0.083%
153	10.048	10.025	10.072	HH	6408	102488	4.67%	0.202%
154	10.096	10.072	10.106	HH	3030	52510	2.39%	0.104%
155	10.111	10.106	10.121	HH	2664	23583	1.07%	0.047%
156	10.136	10.121	10.158	HH	2813	57377	2.62%	0.113%
157	10.182	10.158	10.236	HH	8511	182201	8.30%	0.359%
158	10.253	10.236	10.270	HH	2375	47323	2.16%	0.093%
159	10.287	10.270	10.320	HH	2496	67249	3.07%	0.133%
160	10.356	10.320	10.390	HH	2483	91784	4.18%	0.181%
161	10.393	10.390	10.410	HH	2126	25257	1.15%	0.050%
162	10.455	10.410	10.474	HH	2358	80625	3.67%	0.159%
163	10.491	10.474	10.495	HH	2198	27595	1.26%	0.054%
164	10.524	10.495	10.546	HH	3006	78950	3.60%	0.156%
165	10.573	10.546	10.600	HH	4908	108433	4.94%	0.214%
166	10.625	10.600	10.641	HH	3588	74383	3.39%	0.147%
167	10.657	10.641	10.680	HH	3937	76305	3.48%	0.150%
168	10.715	10.680	10.748	HH	3485	121875	5.55%	0.240%
169	10.771	10.748	10.809	HH	4053	111441	5.08%	0.220%
170	10.832	10.809	10.848	HH	4853	88821	4.05%	0.175%
171	10.856	10.848	10.874	HH	3676	53049	2.42%	0.105%
172	10.881	10.874	10.890	HH	3295	30707	1.40%	0.061%
173	10.924	10.890	10.957	HH	7980	188730	8.60%	0.372%
174	10.995	10.957	11.018	HH	6405	166277	7.58%	0.328%
175	11.027	11.018	11.048	HH	3853	64502	2.94%	0.127%
176	11.049	11.048	11.069	HH	3477	38763	1.77%	0.076%
177	11.093	11.069	11.115	HH	3823	87110	3.97%	0.172%
178	11.147	11.115	11.159	HH	3907	86859	3.96%	0.171%
179	11.180	11.159	11.228	HH	19516	301072	13.72%	0.594%
180	11.256	11.228	11.285	HH	7877	165897	7.56%	0.327%
181	11.316	11.285	11.332	HH	3692	97696	4.45%	0.193%
182	11.343	11.332	11.365	HH	3344	62807	2.86%	0.124%
183	11.382	11.365	11.414	HH	3520	95001	4.33%	0.187%
184	11.435	11.414	11.455	HH	3597	79533	3.62%	0.157%
185	11.474	11.455	11.516	HH	4274	130161	5.93%	0.257%
186	11.549	11.516	11.553	HH	3433	72740	3.32%	0.143%
187	11.577	11.553	11.605	HH	3849	110379	5.03%	0.218%
188	11.632	11.605	11.670	HH	8303	193082	8.80%	0.381%
189	11.675	11.670	11.690	HH	3736	43447	1.98%	0.086%
190	11.718	11.690	11.751	HH	5760	165022	7.52%	0.325%
191	11.755	11.751	11.760	HH	3370	16337	0.74%	0.032%
192	11.787	11.760	11.805	HH	3890	96150	4.38%	0.190%
193	11.836	11.805	11.860	HH	4313	126464	5.76%	0.249%
194	11.878	11.860	11.896	HH	3907	80218	3.66%	0.158%

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195	11.899	11.896	11.907	HH	3710	23369	1.07%	0.046%
196	11.941	11.907	11.959	HH	4176	122924	5.60%	0.242%
197	11.988	11.959	12.004	HH	6842	136391	6.22%	0.269%
198	12.020	12.004	12.052	HH	7463	152931	6.97%	0.302%
199	12.104	12.052	12.120	HH	6152	200613	9.14%	0.396%
200	12.137	12.120	12.155	HH	6303	109475	4.99%	0.216%
201	12.169	12.155	12.210	HH	6539	160543	7.32%	0.317%
202	12.217	12.210	12.224	HH	3966	33335	1.52%	0.066%
203	12.243	12.224	12.263	HH	4514	99358	4.53%	0.196%
204	12.306	12.263	12.335	HH	8464	243446	11.10%	0.480%
205	12.355	12.335	12.375	HH	6000	126193	5.75%	0.249%
206	12.394	12.375	12.420	HH	5142	125723	5.73%	0.248%
207	12.461	12.420	12.482	HH	5695	179605	8.19%	0.354%
208	12.496	12.482	12.500	HH	4710	50868	2.32%	0.100%
209	12.527	12.500	12.533	HH	5491	100273	4.57%	0.198%
210	12.551	12.533	12.595	HH	9081	232846	10.61%	0.459%
211	12.609	12.595	12.623	HH	5338	88518	4.03%	0.175%
212	12.639	12.623	12.650	HH	5438	83826	3.82%	0.165%
213	12.672	12.650	12.700	HH	6012	167417	7.63%	0.330%
214	12.714	12.700	12.753	HH	5840	174107	7.94%	0.343%
215	12.783	12.753	12.822	HH	6449	240588	10.97%	0.474%
216	12.846	12.822	12.857	HH	6084	116949	5.33%	0.231%
217	12.891	12.857	12.914	HH	8884	244674	11.15%	0.482%
218	12.950	12.914	12.984	HH	10836	322448	14.70%	0.636%
219	13.010	12.984	13.053	HH	23771	446569	20.35%	0.881%
220	13.067	13.053	13.090	HH	6101	129190	5.89%	0.255%
221	13.113	13.090	13.126	HH	6281	130727	5.96%	0.258%
222	13.144	13.126	13.159	HH	6623	123632	5.63%	0.244%
223	13.171	13.159	13.184	HH	6386	94334	4.30%	0.186%
224	13.202	13.184	13.214	HH	7167	120990	5.51%	0.239%
225	13.218	13.214	13.233	HH	6762	76446	3.48%	0.151%
226	13.249	13.233	13.283	HH	6907	199734	9.10%	0.394%
227	13.310	13.283	13.334	HH	23903	388205	17.69%	0.765%
228	13.342	13.334	13.355	HH	7888	101236	4.61%	0.200%
229	13.376	13.355	13.388	HH	9276	165731	7.55%	0.327%
230	13.398	13.388	13.419	HH	8767	150024	6.84%	0.296%
231	13.438	13.419	13.464	HH	10489	236276	10.77%	0.466%
232	13.491	13.464	13.505	HH	7842	188417	8.59%	0.372%
233	13.509	13.505	13.541	HH	7979	158039	7.20%	0.312%
234	13.566	13.541	13.600	HH	11057	321619	14.66%	0.634%
235	13.614	13.600	13.632	HH	8752	168405	7.68%	0.332%
236	13.641	13.632	13.690	HH	8950	287057	13.08%	0.566%
237	13.707	13.690	13.720	HH	8213	138511	6.31%	0.273%
238	13.738	13.720	13.748	HH	8470	137783	6.28%	0.272%
239	13.784	13.748	13.790	HH	9185	217304	9.90%	0.428%
240	13.794	13.790	13.822	HH	9089	168043	7.66%	0.331%
241	13.832	13.822	13.852	HH	8537	150891	6.88%	0.298%
242	13.904	13.852	13.932	HH	11622	452137	20.61%	0.892%
243	13.952	13.932	13.961	HH	9352	156705	7.14%	0.309%
244	13.973	13.961	13.988	HH	9260	144641	6.59%	0.285%
245	14.013	13.988	14.035	HH	11885	290860	13.26%	0.574%
246	14.052	14.035	14.072	HH	11150	231321	10.54%	0.456%

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247	14.080	14.072	14.095	HH	10085	134142	6.11%	0.264%
248	14.100	14.095	14.125	HH	10186	180796	8.24%	0.356%
249	14.156	14.125	14.169	HH	14270	308427	14.06%	0.608%
250	14.181	14.169	14.204	HH	12848	251203	11.45%	0.495%
251	14.220	14.204	14.238	HH	11772	222026	10.12%	0.438%
252	14.250	14.238	14.258	HH	10760	128027	5.84%	0.252%
253	14.263	14.258	14.273	HH	10663	96592	4.40%	0.190%
254	14.277	14.273	14.283	HH	10518	60283	2.75%	0.119%
255	14.299	14.283	14.326	HH	10835	272309	12.41%	0.537%
256	14.343	14.326	14.348	HH	10801	139525	6.36%	0.275%
257	14.376	14.348	14.382	HH	11849	228399	10.41%	0.450%
258	14.390	14.382	14.407	HH	11636	173649	7.91%	0.342%
259	14.432	14.407	14.437	HH	11394	197127	8.98%	0.389%
260	14.448	14.437	14.472	HH	11536	235659	10.74%	0.465%
261	14.489	14.472	14.502	HH	11604	206164	9.40%	0.407%
262	14.517	14.502	14.524	HH	12340	155201	7.07%	0.306%
263	14.528	14.524	14.537	HH	12342	99136	4.52%	0.195%
264	14.543	14.537	14.555	HH	12603	136212	6.21%	0.269%
265	14.567	14.555	14.586	HH	12708	231320	10.54%	0.456%
266	14.591	14.586	14.596	HH	12218	72370	3.30%	0.143%
267	14.643	14.596	14.659	HH	14655	515040	23.47%	1.016%
268	14.668	14.659	14.696	HH	13748	293262	13.37%	0.578%
269	14.719	14.696	14.745	HH	16740	426115	19.42%	0.840%
270	14.749	14.745	14.763	HH	14338	155274	7.08%	0.306%
271	14.779	14.763	14.799	HH	15087	310971	14.17%	0.613%
272	14.845	14.841	14.867	HH	15117	225817	10.29%	0.445%
273	14.948	14.906	14.964	HH	15943	522150	23.80%	1.030%
274	15.027	15.022	15.031	HH	15164	83205	3.79%	0.164%
275	15.056	15.031	15.110	HH	24528	853884	38.92%	1.684%
276	15.118	15.110	15.135	HH	16025	246472	11.23%	0.486%
277	15.198	15.168	15.219	HH	24818	603194	27.49%	1.189%
278	15.239	15.219	15.285	HH	26436	815847	37.18%	1.609%
279	15.292	15.285	15.301	HH	17911	176025	8.02%	0.347%
280	15.303	15.301	15.307	HH	17936	62620	2.85%	0.123%
281	15.311	15.307	15.319	HH	17697	121806	5.55%	0.240%
282	15.360	15.319	15.381	HH	20054	698873	31.85%	1.378%
283	15.444	15.424	15.479	HH	20750	643621	29.33%	1.269%
284	15.511	15.479	15.529	HH	20849	601653	27.42%	1.186%
285	15.537	15.529	15.541	HH	20004	138450	6.31%	0.273%
286	15.546	15.541	15.550	HH	19913	108408	4.94%	0.214%
287	15.555	15.550	15.563	HH	19995	154515	7.04%	0.305%
288	15.573	15.563	15.583	HH	20186	231469	10.55%	0.456%
289	15.587	15.583	15.593	HH	20142	123672	5.64%	0.244%
290	15.600	15.593	15.611	HH	20374	220249	10.04%	0.434%
291	15.642	15.611	15.670	HH	25605	801760	36.54%	1.581%
292	15.675	15.670	15.683	HH	21823	160924	7.33%	0.317%
293	15.688	15.683	15.707	HH	22059	312010	14.22%	0.615%
294	15.721	15.707	15.733	HH	21820	330244	15.05%	0.651%
295	15.751	15.733	15.755	HH	21497	288078	13.13%	0.568%
296	15.785	15.755	15.824	HH	26238	973434	44.37%	1.919%
297	15.829	15.824	15.837	HH	23566	186383	8.49%	0.368%
298	15.839	15.837	15.849	HH	23565	167630	7.64%	0.331%
299	15.878	15.849	15.898	HH	26892	717778	32.71%	1.415%

					rteres			
300	15.916	15.898	15.945	HH	25684	689762	31.44%	1.360%
301	15.965	15.945	15.975	HH	24381	422536	19.26%	0.833%
302	16.044	15.975	16.078	HH	27286	1569110	71.52%	3.094%
303	16.088	16.078	16.093	HH	25672	233557	10.64%	0.461%
304	16.099	16.093	16.106	HH	26459	209267	9.54%	0.413%
305	16.114	16.106	16.142	HH	26495	558412	25.45%	1.101%
306	16.166	16.142	16.170	HH	26912	448777	20.45%	0.885%
307	16.175	16.170	16.184	HH	27270	215672	9.83%	0.425%
308	16.188	16.184	16.196	HH	26961	192604	8.78%	0.380%
309	16.210	16.196	16.223	HH	27709	445305	20.30%	0.878%
310	16.243	16.223	16.259	HH	28216	608219	27.72%	1.199%
311	16.266	16.259	16.269	HH	28432	162156	7.39%	0.320%
312	16.291	16.269	16.313	HH	32196	793907	36.18%	1.565%
313	16.317	16.313	16.347	HH	30027	604478	27.55%	1.192%
314	16.351	16.347	16.360	HH	29125	216404	9.86%	0.427%
315	16.371	16.360	16.393	HH	29322	588437	26.82%	1.160%
316	16.410	16.393	16.416	HH	29679	399262	18.20%	0.787%
317	16.420	16.416	16.430	HH	29547	233864	10.66%	0.461%
318	16.474	16.430	16.523	HH	32882	1742024	79.40%	3.435%
319	16.531	16.523	16.535	HH	32018	238400	10.87%	0.470%
320	16.541	16.535	16.546	HH	32275	216300	9.86%	0.426%
321	16.587	16.546	16.591	HH	34045	888166	40.48%	1.751%
322	16.597	16.591	16.615	HH	33999	485962	22.15%	0.958%
323	16.660	16.615	16.666	HH	35535	1049709	47.84%	2.070%
324	16.687	16.666	16.717	HH	36904	1070266	48.78%	2.110%
325	16.768	16.717	16.809	HH	49107	2194062	100.00%	4.326%
326	16.813	16.809	16.835	HH	37409	592934	27.02%	1.169%
327	16.855	16.835	16.863	HH	39339	626954	28.58%	1.236%
Sum of corrected areas:						50715961		

FG011325.M Sat Feb 01 02:40:10 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-16.1-012925	SDG No.:	Q1235
Lab Sample ID:	Q1235-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015290.D	10	01/31/25 08:50	01/31/25 21:02	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	133000		2070	18700	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.15		37 - 130	57%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015290.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 21:02
Operator : YP\AJ
Sample : Q1235-05 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-16.1-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:19:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.057	148011	1.154 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

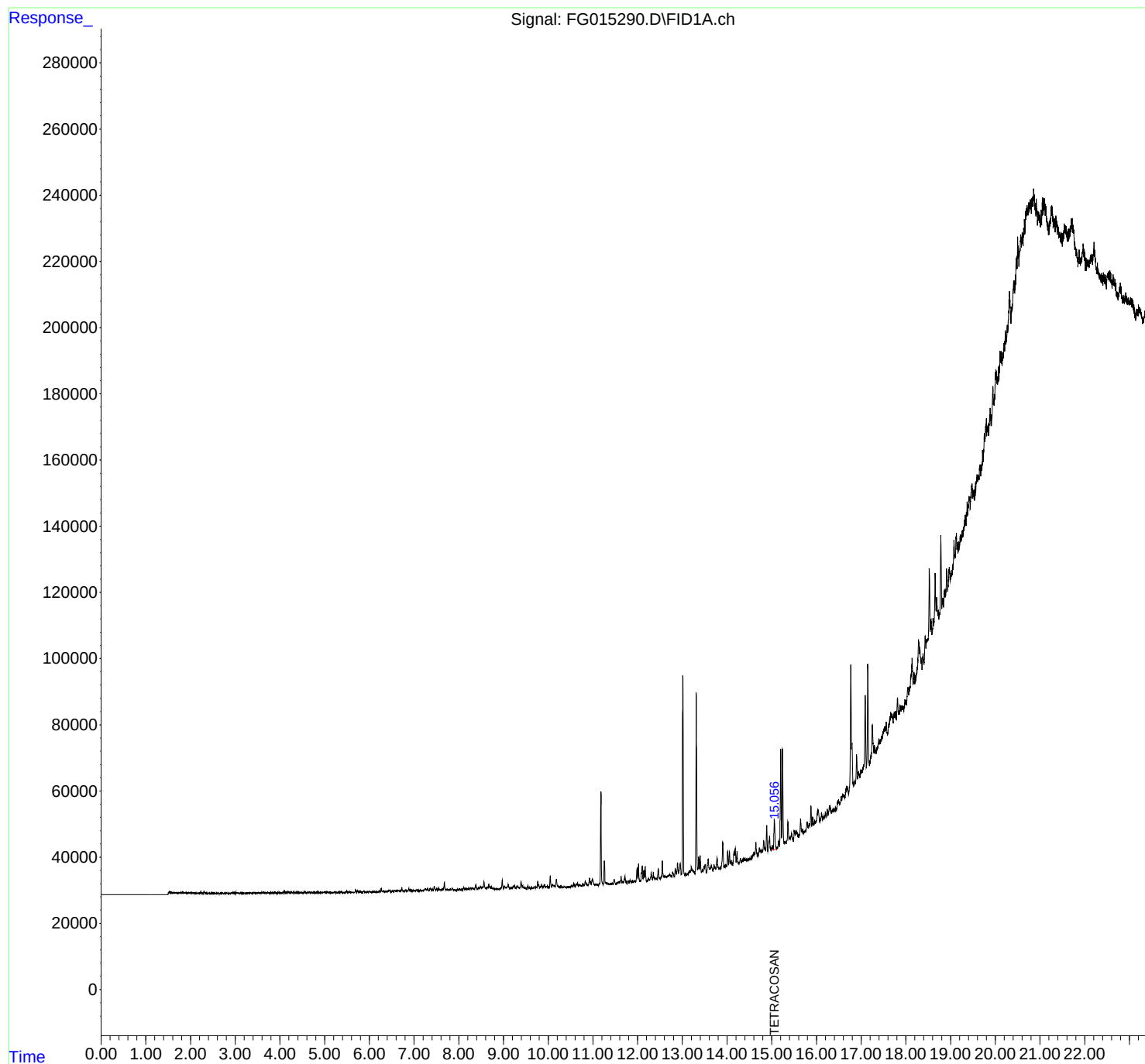
(m)=manual int.

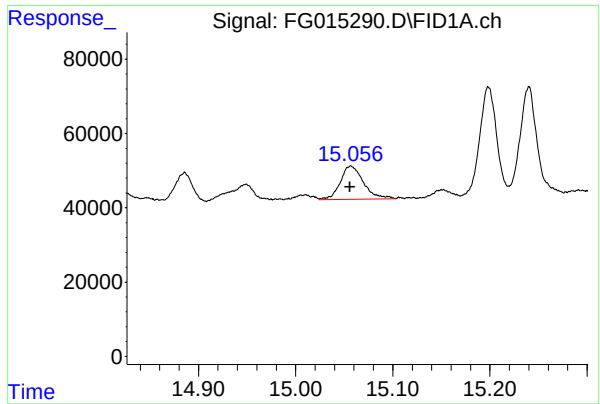
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015290.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 21:02
Operator : YP\AJ
Sample : Q1235-05 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-16.1-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:19:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.057 min
Delta R.T.: 0.000 min
Response: 148011
Conc: 1.15 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-16.1-012925

1
2
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18

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015290.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 21:02
Sample : Q1235-05 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.358	4.350	4.364	BH	72	112	0.01%	0.000%
2	4.374	4.364	4.401	PH	74	-16	-0.00%	-0.000%
3	4.410	4.401	4.422	PH	76	42	0.00%	0.000%
4	4.428	4.422	4.439	PH	57	23	0.00%	0.000%
5	4.446	4.439	4.459	PH	30	-214	-0.01%	-0.000%
6	4.464	4.459	4.469	PH	-9	-223	-0.01%	-0.000%
7	4.476	4.469	4.486	PH	-16	-242	-0.01%	-0.000%
8	4.490	4.486	4.501	PH	43	-247	-0.01%	-0.000%
9	4.508	4.501	4.518	PH	0	-470	-0.03%	-0.001%
10	4.546	4.518	4.565	PH	319	3137	0.17%	0.006%
11	4.569	4.565	4.574	HH	70	268	0.01%	0.001%
12	4.580	4.574	4.601	HH	110	504	0.03%	0.001%
13	4.605	4.601	4.610	PH	49	110	0.01%	0.000%
14	4.620	4.610	4.632	PH	106	578	0.03%	0.001%
15	4.636	4.632	4.641	PH	55	-76	-0.00%	-0.000%
16	4.668	4.641	4.691	PH	153	1109	0.06%	0.002%
17	4.717	4.691	4.750	PH	234	1823	0.10%	0.004%
18	4.770	4.750	4.790	PH	116	1529	0.08%	0.003%
19	4.792	4.790	4.813	HH	84	-1	-0.00%	-0.000%
20	4.830	4.813	4.843	PH	136	1060	0.06%	0.002%
21	4.854	4.843	4.896	HH	123	1349	0.07%	0.003%
22	4.900	4.896	4.905	PH	49	126	0.01%	0.000%
23	4.929	4.905	4.951	PH	122	1784	0.10%	0.004%
24	4.958	4.951	4.964	HH	141	725	0.04%	0.001%
25	4.968	4.964	4.979	HH	137	765	0.04%	0.002%
26	4.999	4.979	5.013	HH	170	2142	0.12%	0.004%
27	5.015	5.013	5.037	HH	128	1324	0.07%	0.003%
28	5.059	5.037	5.091	HH	192	2713	0.15%	0.005%
29	5.098	5.091	5.103	PH	87	227	0.01%	0.000%
30	5.109	5.103	5.128	PH	46	499	0.03%	0.001%
31	5.134	5.128	5.152	PH	54	56	0.00%	0.000%
32	5.156	5.152	5.161	PH	38	-25	-0.00%	-0.000%
33	5.171	5.161	5.183	PH	42	263	0.01%	0.001%
34	5.191	5.183	5.199	PH	93	390	0.02%	0.001%
35	5.204	5.199	5.208	PH	111	300	0.02%	0.001%
36	5.216	5.208	5.223	PH	123	403	0.02%	0.001%

					rteres			
37	5.226	5.223	5.245	HH	123	925	0.05%	0.002%
38	5.249	5.245	5.253	PH	96	220	0.01%	0.000%
39	5.258	5.253	5.282	PH	86	593	0.03%	0.001%
40	5.305	5.282	5.322	PH	184	2058	0.11%	0.004%
41	5.336	5.322	5.349	HH	183	1504	0.08%	0.003%
42	5.367	5.349	5.409	HH	288	3904	0.21%	0.008%
43	5.415	5.409	5.418	PH	23	32	0.00%	0.000%
44	5.437	5.418	5.445	PH	90	578	0.03%	0.001%
45	5.467	5.445	5.478	PH	126	1269	0.07%	0.003%
46	5.496	5.478	5.528	HH	399	5922	0.33%	0.012%
47	5.533	5.528	5.546	HH	182	1275	0.07%	0.003%
48	5.561	5.546	5.587	HH	228	3157	0.17%	0.006%
49	5.593	5.587	5.611	HH	126	943	0.05%	0.002%
50	5.625	5.611	5.632	HH	121	963	0.05%	0.002%
51	5.635	5.632	5.650	HH	149	566	0.03%	0.001%
52	5.662	5.650	5.671	PH	90	491	0.03%	0.001%
53	5.692	5.671	5.717	PH	684	10910	0.60%	0.022%
54	5.732	5.717	5.760	HH	645	9021	0.50%	0.018%
55	5.770	5.760	5.791	HH	259	3304	0.18%	0.007%
56	5.811	5.791	5.837	HH	323	4866	0.27%	0.010%
57	5.842	5.837	5.849	HH	145	1039	0.06%	0.002%
58	5.850	5.849	5.856	HH	183	566	0.03%	0.001%
59	5.876	5.856	5.908	HH	572	9150	0.50%	0.018%
60	5.936	5.908	5.941	HH	190	2603	0.14%	0.005%
61	5.959	5.941	5.973	HH	344	4084	0.22%	0.008%
62	6.005	5.973	6.018	HH	380	7115	0.39%	0.014%
63	6.021	6.018	6.038	HH	293	2381	0.13%	0.005%
64	6.058	6.038	6.073	HH	255	3865	0.21%	0.008%
65	6.077	6.073	6.093	HH	226	2426	0.13%	0.005%
66	6.107	6.093	6.115	HH	261	2754	0.15%	0.005%
67	6.120	6.115	6.143	HH	295	3433	0.19%	0.007%
68	6.149	6.143	6.155	HH	156	996	0.05%	0.002%
69	6.167	6.155	6.194	HH	356	5854	0.32%	0.012%
70	6.225	6.194	6.248	HH	406	9178	0.51%	0.018%
71	6.265	6.248	6.286	HH	1236	16159	0.89%	0.032%
72	6.288	6.286	6.299	HH	452	3032	0.17%	0.006%
73	6.319	6.299	6.347	HH	485	9922	0.55%	0.020%
74	6.367	6.347	6.397	HH	510	10197	0.56%	0.020%
75	6.414	6.397	6.422	HH	498	5530	0.30%	0.011%
76	6.438	6.422	6.484	HH	648	17039	0.94%	0.034%
77	6.497	6.484	6.506	HH	433	5022	0.28%	0.010%
78	6.517	6.506	6.542	HH	506	8983	0.49%	0.018%
79	6.567	6.542	6.583	HH	641	12532	0.69%	0.025%
80	6.615	6.583	6.621	HH	630	12309	0.68%	0.025%
81	6.646	6.621	6.658	HH	659	12488	0.69%	0.025%
82	6.669	6.658	6.687	HH	542	8515	0.47%	0.017%
83	6.693	6.687	6.707	HH	503	5562	0.31%	0.011%
84	6.727	6.707	6.754	HH	1596	23965	1.32%	0.048%
85	6.759	6.754	6.785	HH	543	8237	0.45%	0.016%
86	6.812	6.785	6.845	HH	843	20437	1.12%	0.041%
87	6.854	6.845	6.866	HH	643	6708	0.37%	0.013%
88	6.882	6.866	6.907	HH	1317	20720	1.14%	0.041%
89	6.918	6.907	6.941	HH	836	13543	0.75%	0.027%

					rteres			
90	6.956	6.941	6.970	HH	587	9273	0.51%	0.018%
91	6.990	6.970	7.002	HH	692	10465	0.58%	0.021%
92	7.012	7.002	7.037	HH	659	11492	0.63%	0.023%
93	7.057	7.037	7.086	HH	850	19304	1.06%	0.038%
94	7.093	7.086	7.107	HH	621	6819	0.38%	0.014%
95	7.135	7.107	7.158	HH	815	19069	1.05%	0.038%
96	7.163	7.158	7.171	HH	637	4336	0.24%	0.009%
97	7.202	7.171	7.218	HH	789	18593	1.02%	0.037%
98	7.242	7.218	7.253	HH	1059	18982	1.04%	0.038%
99	7.265	7.253	7.282	HH	1173	16647	0.92%	0.033%
100	7.303	7.282	7.335	HH	1267	27506	1.51%	0.055%
101	7.365	7.335	7.389	HH	1395	33352	1.84%	0.066%
102	7.407	7.389	7.431	HH	1175	22485	1.24%	0.045%
103	7.452	7.431	7.486	HH	1981	40082	2.21%	0.080%
104	7.506	7.486	7.528	HH	1329	24665	1.36%	0.049%
105	7.549	7.528	7.573	HH	1240	25577	1.41%	0.051%
106	7.582	7.573	7.603	HH	940	15277	0.84%	0.030%
107	7.630	7.603	7.640	HH	1061	20041	1.10%	0.040%
108	7.646	7.640	7.654	HH	1169	8810	0.48%	0.018%
109	7.679	7.654	7.703	HH	3163	51105	2.81%	0.102%
110	7.707	7.703	7.717	HH	1014	7825	0.43%	0.016%
111	7.722	7.717	7.742	HH	1080	14830	0.82%	0.030%
112	7.748	7.742	7.761	HH	957	10094	0.56%	0.020%
113	7.771	7.761	7.778	HH	914	9175	0.51%	0.018%
114	7.809	7.778	7.831	HH	1069	29792	1.64%	0.059%
115	7.856	7.831	7.883	HH	1411	33500	1.84%	0.067%
116	7.902	7.883	7.924	HH	888	19539	1.08%	0.039%
117	7.943	7.924	7.947	HH	886	10551	0.58%	0.021%
118	7.951	7.947	7.956	HH	873	4581	0.25%	0.009%
119	7.971	7.956	7.985	HH	1005	15487	0.85%	0.031%
120	7.995	7.985	8.009	HH	1009	12750	0.70%	0.025%
121	8.018	8.009	8.039	HH	1167	17826	0.98%	0.036%
122	8.060	8.039	8.078	HH	994	21009	1.16%	0.042%
123	8.114	8.078	8.128	HH	1526	33619	1.85%	0.067%
124	8.143	8.128	8.159	HH	1308	22427	1.23%	0.045%
125	8.165	8.159	8.186	HH	1272	17883	0.98%	0.036%
126	8.210	8.186	8.228	HH	1316	27894	1.54%	0.056%
127	8.258	8.228	8.277	HH	1544	36378	2.00%	0.072%
128	8.293	8.277	8.308	HH	1405	23029	1.27%	0.046%
129	8.315	8.308	8.346	HH	1417	26599	1.46%	0.053%
130	8.383	8.346	8.417	HH	2565	65669	3.61%	0.131%
131	8.453	8.417	8.469	HH	1579	43116	2.37%	0.086%
132	8.487	8.469	8.503	HH	2049	33821	1.86%	0.067%
133	8.515	8.503	8.532	HH	1694	26038	1.43%	0.052%
134	8.565	8.532	8.600	HH	3332	82589	4.55%	0.165%
135	8.612	8.600	8.627	HH	1457	21346	1.17%	0.043%
136	8.675	8.627	8.700	HH	2381	74005	4.07%	0.147%
137	8.726	8.700	8.745	HH	2004	42985	2.37%	0.086%
138	8.761	8.745	8.783	HH	1346	28358	1.56%	0.057%
139	8.788	8.783	8.803	HH	1213	12965	0.71%	0.026%
140	8.812	8.803	8.840	HH	1235	25756	1.42%	0.051%
141	8.845	8.840	8.852	HH	1146	7526	0.41%	0.015%

rteres								
142	8.856	8.852	8.864	HH	1123	8348	0.46%	0.017%
143	8.868	8.864	8.878	HH	1077	8580	0.47%	0.017%
144	8.940	8.878	8.946	HH	1448	47301	2.60%	0.094%
145	8.973	8.946	9.008	HH	3836	76692	4.22%	0.153%
146	9.025	9.008	9.045	HH	2028	37713	2.08%	0.075%
147	9.062	9.045	9.077	HH	1629	29540	1.63%	0.059%
148	9.108	9.077	9.137	HH	2498	64663	3.56%	0.129%
149	9.156	9.137	9.178	HH	1456	33614	1.85%	0.067%
150	9.195	9.178	9.199	HH	1536	18655	1.03%	0.037%
151	9.217	9.199	9.236	HH	2019	37433	2.06%	0.075%
152	9.252	9.236	9.275	HH	2336	42194	2.32%	0.084%
153	9.316	9.275	9.338	HH	1970	61858	3.40%	0.123%
154	9.340	9.338	9.359	HH	1607	19768	1.09%	0.039%
155	9.394	9.359	9.420	HH	3332	78362	4.31%	0.156%
156	9.431	9.420	9.471	HH	2096	50196	2.76%	0.100%
157	9.485	9.471	9.511	HH	1499	32943	1.81%	0.066%
158	9.548	9.511	9.564	HH	1908	47408	2.61%	0.094%
159	9.581	9.564	9.618	HH	1754	46890	2.58%	0.093%
160	9.629	9.618	9.652	HH	1577	28253	1.56%	0.056%
161	9.685	9.652	9.711	HH	1799	53413	2.94%	0.106%
162	9.729	9.711	9.748	HH	1793	35329	1.94%	0.070%
163	9.767	9.748	9.821	HH	3368	93936	5.17%	0.187%
164	9.848	9.821	9.883	HH	2311	69157	3.81%	0.138%
165	9.889	9.883	9.896	HH	1806	13605	0.75%	0.027%
166	9.918	9.896	9.941	HH	2335	53444	2.94%	0.107%
167	9.948	9.941	9.962	HH	1872	22243	1.22%	0.044%
168	9.979	9.962	10.005	HH	2030	45734	2.52%	0.091%
169	10.010	10.005	10.023	HH	1646	16665	0.92%	0.033%
170	10.048	10.023	10.074	HH	5178	89244	4.91%	0.178%
171	10.093	10.074	10.112	HH	2545	49217	2.71%	0.098%
172	10.118	10.112	10.161	HH	2218	58651	3.23%	0.117%
173	10.183	10.161	10.244	HH	4007	122752	6.76%	0.245%
174	10.252	10.244	10.268	HH	1801	24145	1.33%	0.048%
175	10.288	10.268	10.317	HH	1921	50729	2.79%	0.101%
176	10.348	10.317	10.352	HH	1819	36145	1.99%	0.072%
177	10.360	10.352	10.383	HH	1850	31082	1.71%	0.062%
178	10.390	10.383	10.406	HH	1657	22263	1.23%	0.044%
179	10.432	10.406	10.436	HH	1656	29040	1.60%	0.058%
180	10.454	10.436	10.473	HH	1786	36994	2.04%	0.074%
181	10.485	10.473	10.502	HH	1762	29205	1.61%	0.058%
182	10.519	10.502	10.548	HH	2179	53597	2.95%	0.107%
183	10.571	10.548	10.600	HH	2879	71240	3.92%	0.142%
184	10.628	10.600	10.644	HH	2630	62096	3.42%	0.124%
185	10.658	10.644	10.681	HH	2967	55956	3.08%	0.112%
186	10.699	10.681	10.744	HH	2497	83296	4.58%	0.166%
187	10.775	10.744	10.810	HH	2779	90435	4.98%	0.180%
188	10.829	10.810	10.869	HH	3441	98180	5.40%	0.196%
189	10.877	10.869	10.893	HH	2477	34290	1.89%	0.068%
190	10.925	10.893	10.961	HH	4346	126213	6.95%	0.252%
191	10.985	10.961	11.037	HH	4005	141381	7.78%	0.282%
192	11.052	11.037	11.062	HH	2500	36611	2.02%	0.073%
193	11.077	11.062	11.100	HH	2669	56732	3.12%	0.113%
194	11.119	11.100	11.131	HH	2411	43810	2.41%	0.087%

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195	11.147	11.131	11.156	HH	2876	39374	2.17%	0.078%
196	11.180	11.156	11.229	HH	30539	407993	22.46%	0.813%
197	11.256	11.229	11.287	HH	9592	166811	9.18%	0.332%
198	11.289	11.287	11.301	HH	3051	24628	1.36%	0.049%
199	11.313	11.301	11.341	HH	2976	66017	3.63%	0.132%
200	11.360	11.341	11.382	HH	2711	64375	3.54%	0.128%
201	11.398	11.382	11.415	HH	2722	51961	2.86%	0.104%
202	11.430	11.415	11.454	HH	2955	63540	3.50%	0.127%
203	11.475	11.454	11.518	HH	3979	118727	6.53%	0.237%
204	11.563	11.518	11.568	HH	3175	85569	4.71%	0.171%
205	11.571	11.568	11.578	HH	3148	20121	1.11%	0.040%
206	11.582	11.578	11.588	HH	3116	17938	0.99%	0.036%
207	11.631	11.588	11.666	HH	4999	165789	9.13%	0.330%
208	11.678	11.666	11.686	HH	3282	38640	2.13%	0.077%
209	11.718	11.686	11.756	HH	5018	157903	8.69%	0.315%
210	11.786	11.756	11.805	HH	3638	94534	5.20%	0.188%
211	11.836	11.805	11.859	HH	3769	107097	5.89%	0.213%
212	11.877	11.859	11.904	HH	3676	91017	5.01%	0.181%
213	11.921	11.904	11.925	HH	3426	42687	2.35%	0.085%
214	11.939	11.925	11.956	HH	3645	62649	3.45%	0.125%
215	11.989	11.956	12.004	HH	7601	142774	7.86%	0.285%
216	12.019	12.004	12.060	HH	8740	175791	9.68%	0.350%
217	12.103	12.060	12.121	HH	8125	200146	11.02%	0.399%
218	12.137	12.121	12.153	HH	6568	105080	5.78%	0.209%
219	12.169	12.153	12.197	HH	7806	141438	7.78%	0.282%
220	12.216	12.197	12.224	HH	3624	58167	3.20%	0.116%
221	12.242	12.224	12.270	HH	4301	108070	5.95%	0.215%
222	12.304	12.270	12.332	HH	6015	174947	9.63%	0.349%
223	12.351	12.332	12.393	HH	6093	171150	9.42%	0.341%
224	12.398	12.393	12.408	HH	4303	38486	2.12%	0.077%
225	12.411	12.408	12.433	HH	4274	64441	3.55%	0.128%
226	12.462	12.433	12.486	HH	7231	164462	9.05%	0.328%
227	12.495	12.486	12.503	HH	4454	45611	2.51%	0.091%
228	12.552	12.503	12.589	HH	9652	291898	16.07%	0.582%
229	12.593	12.589	12.597	HH	4711	21192	1.17%	0.042%
230	12.613	12.597	12.627	HH	5212	89669	4.94%	0.179%
231	12.639	12.627	12.652	HH	4906	71324	3.93%	0.142%
232	12.672	12.652	12.680	HH	5102	84177	4.63%	0.168%
233	12.713	12.680	12.730	HH	5506	154394	8.50%	0.308%
234	12.735	12.730	12.753	HH	5282	71333	3.93%	0.142%
235	12.783	12.753	12.822	HH	6267	220954	12.16%	0.440%
236	12.845	12.822	12.863	HH	7135	149555	8.23%	0.298%
237	12.893	12.863	12.912	HH	8929	205686	11.32%	0.410%
238	12.952	12.912	12.983	HH	8884	291523	16.05%	0.581%
239	13.011	12.983	13.055	HH	65494	890775	49.03%	1.775%
240	13.069	13.055	13.090	HH	5792	115094	6.33%	0.229%
241	13.110	13.090	13.123	HH	5694	109545	6.03%	0.218%
242	13.151	13.123	13.158	HH	6330	124065	6.83%	0.247%
243	13.169	13.158	13.180	HH	6597	84183	4.63%	0.168%
244	13.198	13.180	13.213	HH	7874	135551	7.46%	0.270%
245	13.222	13.213	13.243	HH	6890	123666	6.81%	0.246%
246	13.249	13.243	13.282	HH	6540	141014	7.76%	0.281%

rteres								
247	13.310	13.282	13.338	HH	60273	815193	44.87%	1.625%
248	13.366	13.338	13.383	HH	10806	228938	12.60%	0.456%
249	13.399	13.383	13.428	HH	11125	220194	12.12%	0.439%
250	13.453	13.428	13.465	HH	6870	147216	8.10%	0.293%
251	13.485	13.465	13.497	HH	8026	142704	7.85%	0.284%
252	13.512	13.497	13.539	HH	8401	184235	10.14%	0.367%
253	13.578	13.539	13.601	HH	10014	300220	16.52%	0.598%
254	13.611	13.601	13.616	HH	7269	66044	3.64%	0.132%
255	13.620	13.616	13.625	HH	7307	38880	2.14%	0.077%
256	13.647	13.625	13.679	HH	8118	241131	13.27%	0.481%
257	13.709	13.679	13.725	HH	8405	204578	11.26%	0.408%
258	13.735	13.725	13.748	HH	7679	101461	5.58%	0.202%
259	13.774	13.748	13.816	HH	10470	345528	19.02%	0.689%
260	13.819	13.816	13.854	HH	7373	167303	9.21%	0.333%
261	13.903	13.854	13.936	HH	15184	486041	26.75%	0.969%
262	13.970	13.936	13.988	HH	8458	250721	13.80%	0.500%
263	14.013	13.988	14.032	HH	12486	263371	14.50%	0.525%
264	14.052	14.032	14.074	HH	12337	255665	14.07%	0.509%
265	14.092	14.074	14.116	HH	9821	226273	12.45%	0.451%
266	14.157	14.116	14.168	HH	12295	316423	17.42%	0.631%
267	14.181	14.168	14.203	HH	13272	247520	13.62%	0.493%
268	14.222	14.203	14.266	HH	12591	378968	20.86%	0.755%
269	14.300	14.266	14.322	HH	10329	316957	17.45%	0.632%
270	14.345	14.322	14.353	HH	9689	174743	9.62%	0.348%
271	14.383	14.353	14.401	HH	10332	290931	16.01%	0.580%
272	14.417	14.401	14.425	HH	10081	142959	7.87%	0.285%
273	14.435	14.425	14.452	HH	10105	159749	8.79%	0.318%
274	14.460	14.452	14.469	HH	9980	101388	5.58%	0.202%
275	14.495	14.469	14.505	HH	10218	217327	11.96%	0.433%
276	14.520	14.505	14.530	HH	10459	151386	8.33%	0.302%
277	14.545	14.530	14.560	HH	10781	191235	10.53%	0.381%
278	14.579	14.560	14.587	HH	11447	180395	9.93%	0.359%
279	14.611	14.587	14.626	HH	12263	273549	15.06%	0.545%
280	14.644	14.626	14.689	HH	15282	477896	26.30%	0.952%
281	14.696	14.689	14.700	HH	11364	71449	3.93%	0.142%
282	14.721	14.700	14.738	HH	13585	284985	15.69%	0.568%
283	14.748	14.738	14.763	HH	12663	192799	10.61%	0.384%
284	14.782	14.763	14.797	HH	13035	251473	13.84%	0.501%
285	14.820	14.797	14.843	HH	15671	387844	21.35%	0.773%
286	14.847	14.843	14.861	HH	13447	144622	7.96%	0.288%
287	14.886	14.861	14.908	HH	20319	448037	24.66%	0.893%
288	14.949	14.908	14.977	HH	17073	596779	32.85%	1.189%
289	15.010	14.977	15.025	HH	14253	391331	21.54%	0.780%
290	15.057	15.025	15.113	HH	22019	834495	45.93%	1.663%
291	15.121	15.113	15.125	HH	13545	100610	5.54%	0.200%
292	15.151	15.125	15.170	HH	15551	389652	21.45%	0.776%
293	15.199	15.170	15.220	HH	43276	773620	42.58%	1.542%
294	15.240	15.220	15.277	HH	43414	838467	46.15%	1.671%
295	15.291	15.277	15.319	HH	15584	387152	21.31%	0.772%
296	15.362	15.319	15.383	HH	21441	667171	36.72%	1.330%
297	15.391	15.383	15.396	HH	16695	122830	6.76%	0.245%
298	15.402	15.396	15.411	HH	16473	152370	8.39%	0.304%
299	15.444	15.411	15.475	HH	17843	640512	35.25%	1.276%

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300	15.506	15.475	15.526	HH	18690	530351	29.19%	1.057%
301	15.537	15.526	15.598	HH	18550	775031	42.66%	1.544%
302	15.644	15.598	15.669	HH	22322	804643	44.29%	1.603%
303	15.690	15.669	15.704	HH	19201	394498	21.71%	0.786%
304	15.716	15.704	15.720	HH	18470	174431	9.60%	0.348%
305	15.724	15.720	15.733	HH	18285	132672	7.30%	0.264%
306	15.747	15.733	15.754	HH	18824	242071	13.32%	0.482%
307	15.763	15.754	15.767	HH	18749	138784	7.64%	0.277%
308	15.792	15.767	15.818	HH	21436	627163	34.52%	1.250%
309	15.836	15.818	15.851	HH	20881	404794	22.28%	0.807%
310	15.875	15.851	15.896	HH	26313	606713	33.39%	1.209%
311	15.916	15.896	15.946	HH	22756	643192	35.40%	1.282%
312	15.960	15.946	15.973	HH	21839	350277	19.28%	0.698%
313	16.038	15.973	16.079	HH	25031	1441310	79.33%	2.872%
314	16.114	16.079	16.142	HH	24001	862523	47.47%	1.719%
315	16.178	16.142	16.182	HH	23174	546985	30.11%	1.090%
316	16.199	16.182	16.220	HH	24261	538523	29.64%	1.073%
317	16.240	16.220	16.263	HH	25293	618264	34.03%	1.232%
318	16.295	16.263	16.332	HH	26216	1034496	56.94%	2.062%
319	16.351	16.332	16.357	HH	24925	373247	20.54%	0.744%
320	16.393	16.357	16.419	HH	25221	921256	50.71%	1.836%
321	16.437	16.419	16.443	HH	25578	363037	19.98%	0.723%
322	16.473	16.443	16.477	HH	27481	531255	29.24%	1.059%
323	16.481	16.477	16.485	HH	27755	145215	7.99%	0.289%
324	16.495	16.485	16.530	HH	28105	738970	40.67%	1.473%
325	16.549	16.530	16.567	HH	29076	618016	34.02%	1.232%
326	16.591	16.567	16.615	HH	29750	838758	46.17%	1.671%
327	16.631	16.615	16.637	HH	29363	374746	20.63%	0.747%
328	16.682	16.637	16.717	HH	32099	1488328	81.92%	2.966%
329	16.767	16.717	16.787	HH	68741	1816825	100.00%	3.621%
330	16.792	16.787	16.839	HH	45120	1134129	62.42%	2.260%
331	16.851	16.839	16.867	HH	33558	565564	31.13%	1.127%
332	16.897	16.867	16.921	HH	41694	1186361	65.30%	2.364%
333	16.937	16.921	16.970	HH	36344	1060767	58.39%	2.114%
Sum of corrected areas:						50180817		

FG011325.M Sat Feb 01 02:42:19 2025



CALIBRATION SUMMARY

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: RUTW01
 ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

Calibration Sequence : FE012325		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	100840417	100840	FE052027.D
500	49711032	99422	FE052028.D
200	20907011	104535	FE052029.D
100	11272495	112725	FE052030.D
50	5669298	113386	FE052031.D
AVG RF : 106182		% RSD : 6.169	AVG RT : 15.2554

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
 Data File : FE052027.D
 Signal(s) : FID1B.ch
 Acq On : 23 Jan 2025 22:06
 Operator : YP\AJ
 Sample : 100 TRPH STD
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 TRPH STD

Integration File: autoint1.e
 Quant Time: Jan 24 03:01:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:00:39 2025
 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...	15.260	9326838	100.174 ug/ml
Target Compounds			
1) N-OCTANE	2.414	8352750	103.369 ug/ml
2) N-DECANE	4.910	8964173	103.553 ug/ml
3) N-DODECANE	7.039	9720116	103.116 ug/ml
4) N-TETRADECANE	8.845	9800969	102.624 ug/ml
5) N-HEXADECANE	10.439	10191868	102.144 ug/ml
6) N-OCTADECANE	11.873	10670149	101.681 ug/ml
7) N-EICOSANE	13.174	10511987	101.149 ug/ml
8) N-DOCOSANE	14.367	10414135	100.677 ug/ml
10) N-TETRACOSANE	15.465	10358861	100.274 ug/ml
11) N-HEXACOSANE	16.482	10187153	100.078 ug/ml
12) N-OCTACOSANE	17.429	10021006	99.509 ug/ml
13) N-TRIACONTANE	18.313	9878203	99.283 ug/ml
14) N-DOTRIACONTANE	19.143	9582276	99.145 ug/ml
15) N-TETRATRIACONTANE	19.925	8712926	100.310 ug/ml
16) N-HEXATRIACONTANE	20.662	7584514	101.793 ug/ml
17) N-OCTATRIACONTANE	21.449	7106830	103.214 ug/ml
18) N-TETRACONTANE	22.450	7068311	105.034 ug/ml

(f)=RT Delta > 1/2 Window

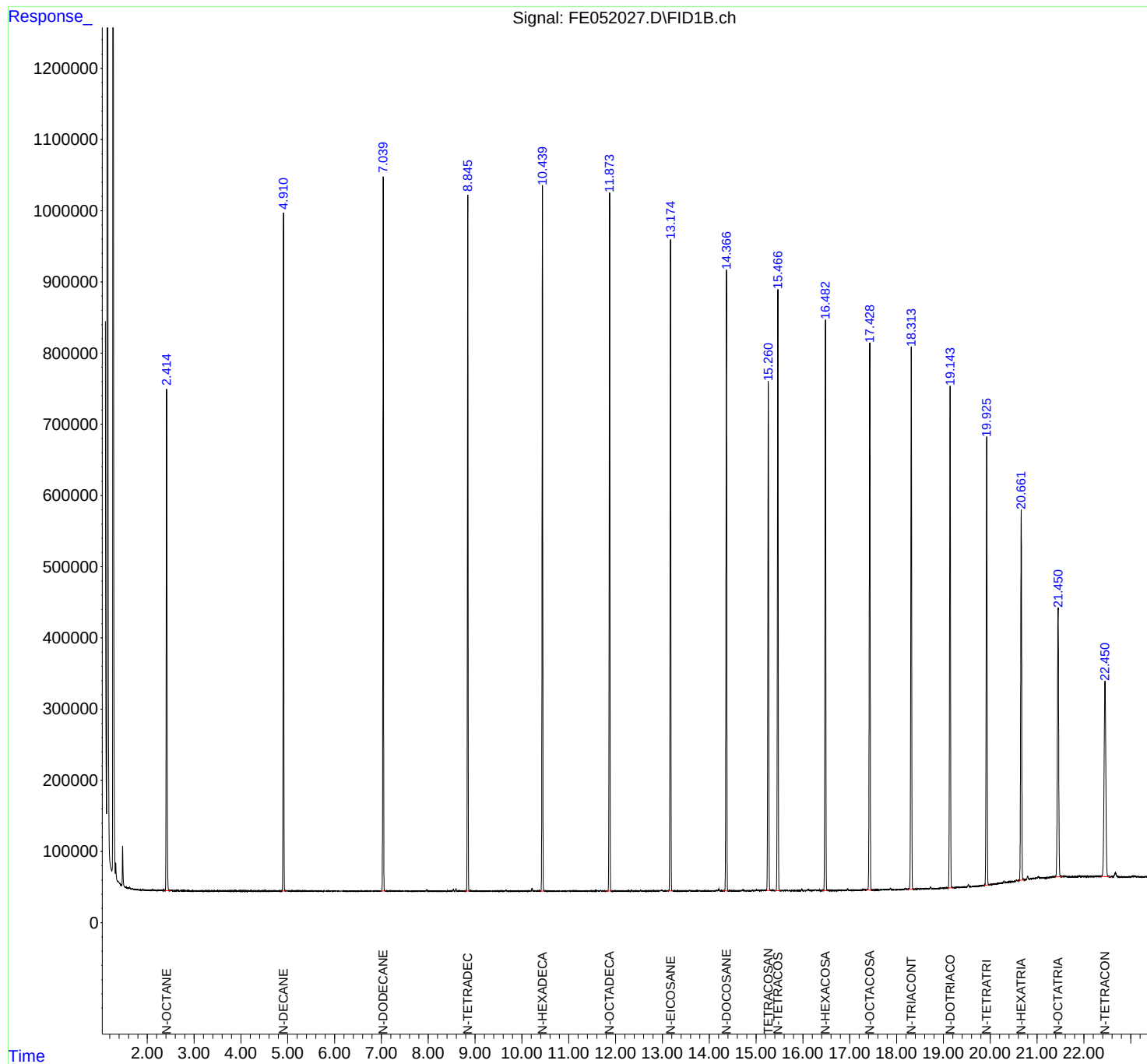
(m)=manual int.

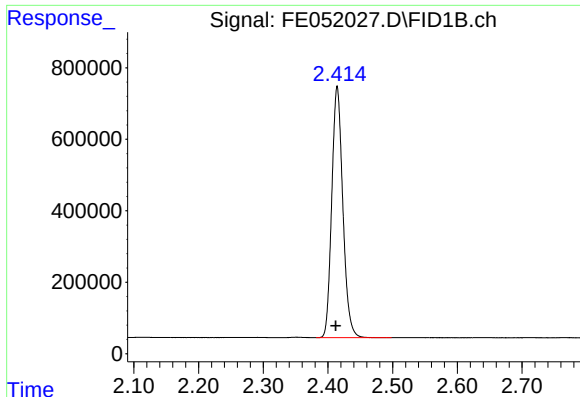
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052027.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 22:06
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

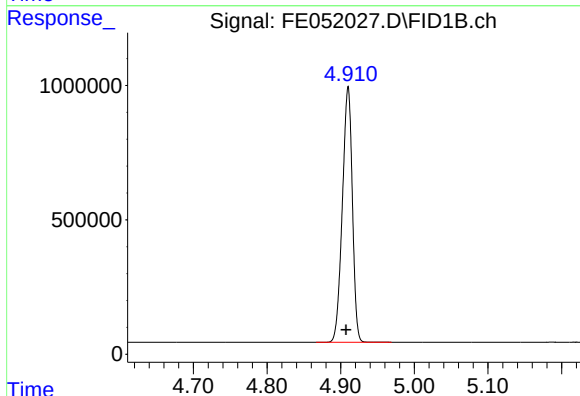




#1 N-OCTANE

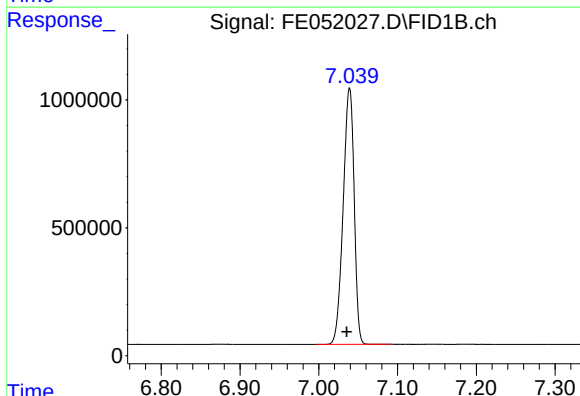
R.T.: 2.414 min
Delta R.T.: 0.002 min
Response: 8352750
Conc: 103.37 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



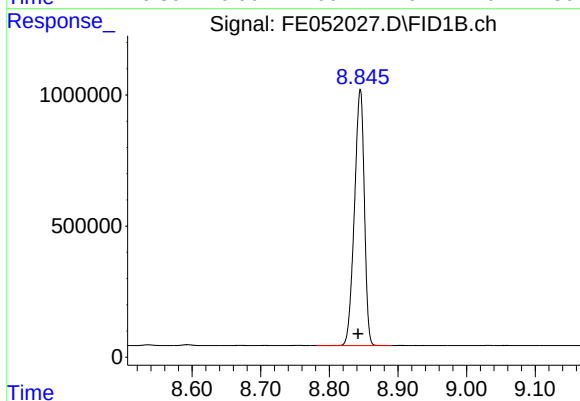
#2 N-DECANE

R.T.: 4.910 min
Delta R.T.: 0.003 min
Response: 8964173
Conc: 103.55 ug/ml



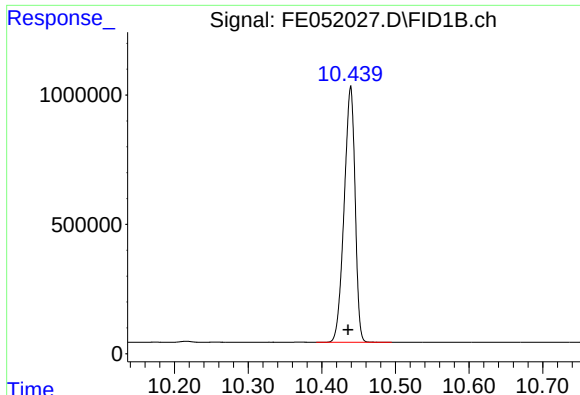
#3 N-DODECANE

R.T.: 7.039 min
Delta R.T.: 0.003 min
Response: 9720116
Conc: 103.12 ug/ml



#4 N-TETRADECANE

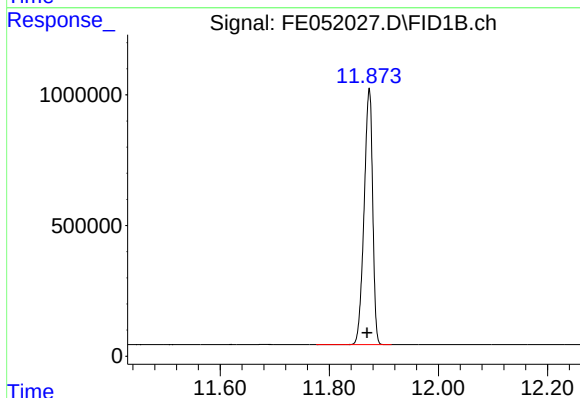
R.T.: 8.845 min
Delta R.T.: 0.003 min
Response: 9800969
Conc: 102.62 ug/ml



#5 N-HEXADECANE

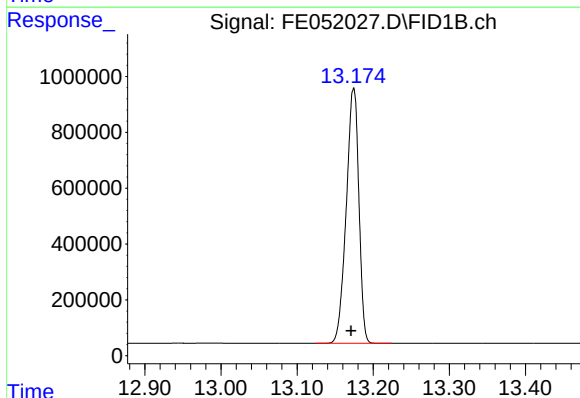
R.T.: 10.439 min
Delta R.T.: 0.004 min
Response: 10191868
Conc: 102.14 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



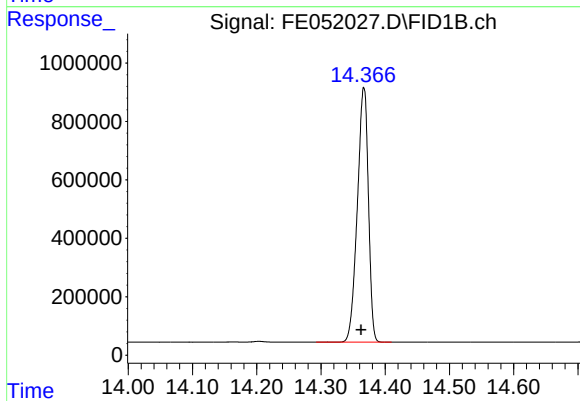
#6 N-OCTADECANE

R.T.: 11.873 min
Delta R.T.: 0.004 min
Response: 10670149
Conc: 101.68 ug/ml



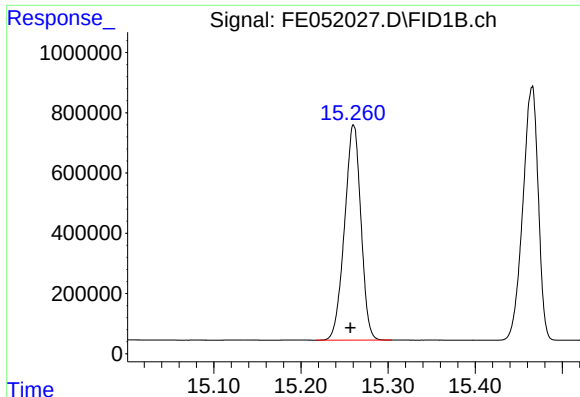
#7 N-EICOSANE

R.T.: 13.174 min
Delta R.T.: 0.003 min
Response: 10511987
Conc: 101.15 ug/ml



#8 N-DOCOSANE

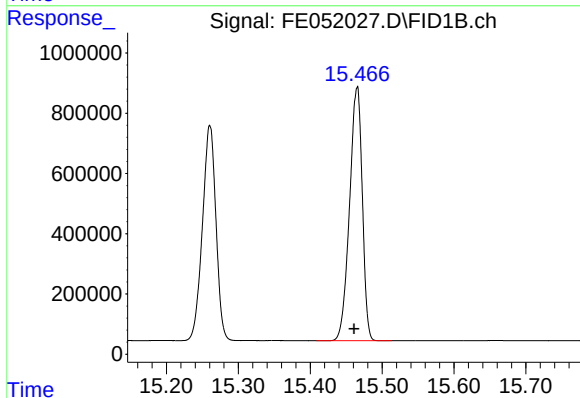
R.T.: 14.367 min
Delta R.T.: 0.004 min
Response: 10414135
Conc: 100.68 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

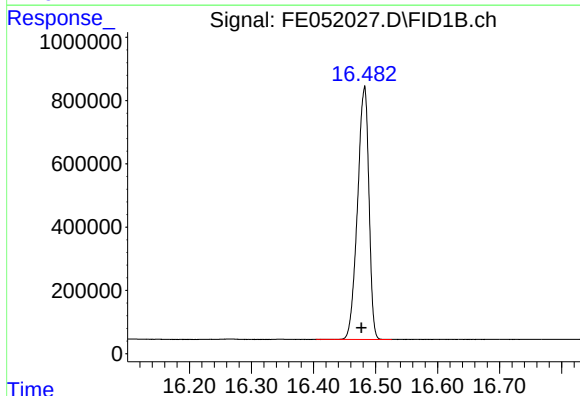
R.T.: 15.260 min
Delta R.T.: 0.003 min
Response: 9326838
Conc: 100.17 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



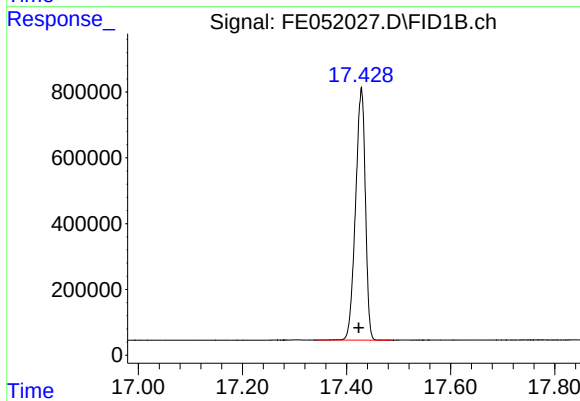
#10 N-TETRACOSANE

R.T.: 15.465 min
Delta R.T.: 0.004 min
Response: 10358861
Conc: 100.27 ug/ml



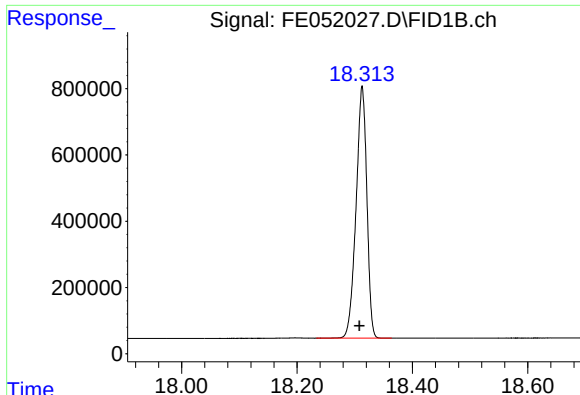
#11 N-HEXACOSANE

R.T.: 16.482 min
Delta R.T.: 0.005 min
Response: 10187153
Conc: 100.08 ug/ml



#12 N-OCTACOSANE

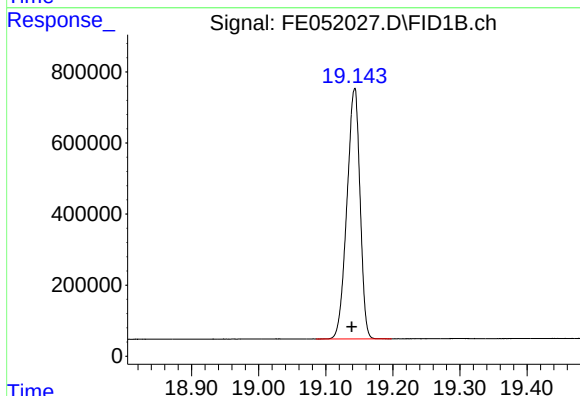
R.T.: 17.429 min
Delta R.T.: 0.005 min
Response: 10021006
Conc: 99.51 ug/ml



#13 N-TRIACONTANE

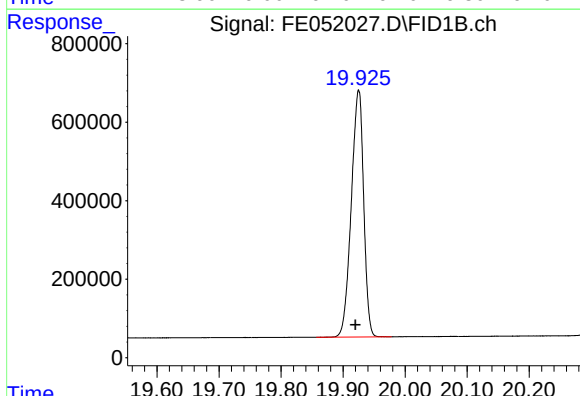
R.T.: 18.313 min
Delta R.T.: 0.005 min
Response: 9878203
Conc: 99.28 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



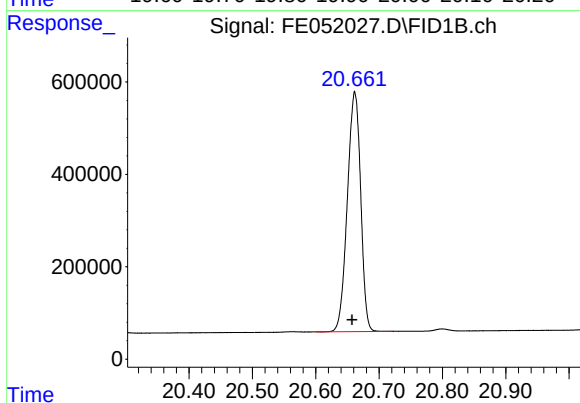
#14 N-DOTRIACONTANE

R.T.: 19.143 min
Delta R.T.: 0.004 min
Response: 9582276
Conc: 99.15 ug/ml



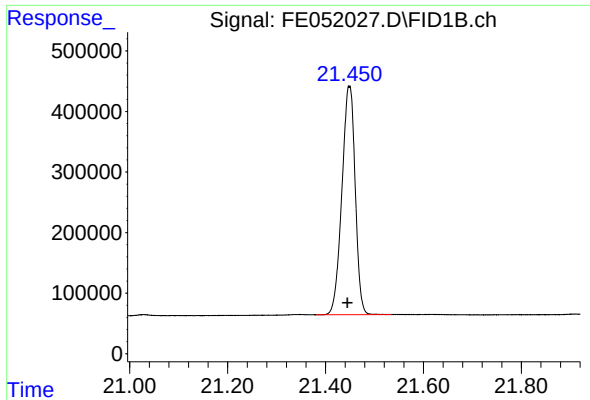
#15 N-TETRATRIACONTANE

R.T.: 19.925 min
Delta R.T.: 0.005 min
Response: 8712926
Conc: 100.31 ug/ml



#16 N-HEXATRIACONTANE

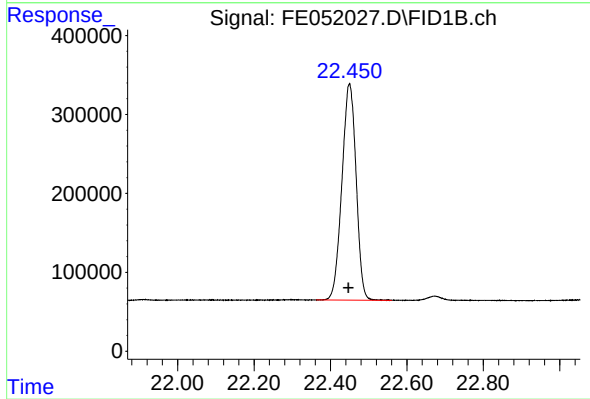
R.T.: 20.662 min
Delta R.T.: 0.004 min
Response: 7584514
Conc: 101.79 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.449 min
Delta R.T.: 0.004 min
Response: 7106830
Conc: 103.21 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.450 min
Delta R.T.: 0.002 min
Response: 7068311
Conc: 105.03 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052027.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 22:06
Sample : 100 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.414	2.382	2.498	PB	704049	8352750	78.28%	4.959%
2	4.910	4.867	4.969	BB	951340	8964173	84.01%	5.321%
3	7.039	6.997	7.092	BB	1002810	9720116	91.10%	5.770%
4	8.845	8.781	8.891	BV	977530	9800969	91.85%	5.818%
5	10.439	10.392	10.495	BB	989021	10191868	95.52%	6.050%
6	11.873	11.776	11.914	BB	979790	10670149	100.00%	6.334%
7	13.174	13.125	13.224	BB	912737	10511987	98.52%	6.240%
8	14.367	14.292	14.410	BB	871499	10414135	97.60%	6.182%
9	15.260	15.217	15.304	PV	713126	9326838	87.41%	5.537%
10	15.465	15.408	15.513	BB	842402	10358861	97.08%	6.149%
11	16.482	16.404	16.526	BB	799959	10187153	95.47%	6.047%
12	17.429	17.342	17.487	BB	765387	10021006	93.92%	5.949%
13	18.313	18.233	18.364	BB	762184	9878203	92.58%	5.864%
14	19.143	19.086	19.198	BB	704937	9582276	89.80%	5.688%
15	19.925	19.857	19.978	BV	629323	8712926	81.66%	5.172%
16	20.662	20.601	20.720	BB	519502	7584514	71.08%	4.502%
17	21.449	21.381	21.535	BB	375187	7106830	66.60%	4.219%
18	22.450	22.362	22.560	BB	274238	7068311	66.24%	4.196%
Sum of corrected areas:						168453064		

FE012325.M Fri Jan 24 03:17:50 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
 Data File : FE052028.D
 Signal(s) : FID1B.ch
 Acq On : 23 Jan 2025 23:06
 Operator : YP\AJ
 Sample : 50 TRPH STD
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 TRPH STD

Integration File: autoint1.e
 Quant Time: Jan 24 03:01:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:00:39 2025
 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...	15.257	4655317	50.000 ug/ml
Target Compounds			
1) N-OCTANE	2.412	4040248	50.000 ug/ml
2) N-DECANE	4.907	4328284	50.000 ug/ml
3) N-DODECANE	7.036	4713212	50.000 ug/ml
4) N-TETRADECANE	8.842	4775185	50.000 ug/ml
5) N-HEXADECANE	10.436	4988963	50.000 ug/ml
6) N-OCTADECANE	11.869	5246868	50.000 ug/ml
7) N-EICOSANE	13.171	5196311	50.000 ug/ml
8) N-DOCOSANE	14.362	5172075	50.000 ug/ml
10) N-TETRACOSANE	15.461	5165286	50.000 ug/ml
11) N-HEXACOSANE	16.477	5089619	50.000 ug/ml
12) N-OCTACOSANE	17.424	5035229	50.000 ug/ml
13) N-TRIACONTANE	18.308	4974786	50.000 ug/ml
14) N-DOTRIACONTANE	19.139	4832453	50.000 ug/ml
15) N-TETRATRIACONTANE	19.920	4342985	50.000 ug/ml
16) N-HEXATRIACONTANE	20.657	3725450	50.000 ug/ml
17) N-OCTATRIACONTANE	21.445	3442776	50.000 ug/ml
18) N-TETRACONTANE	22.447	3364772	50.000 ug/ml

(f)=RT Delta > 1/2 Window

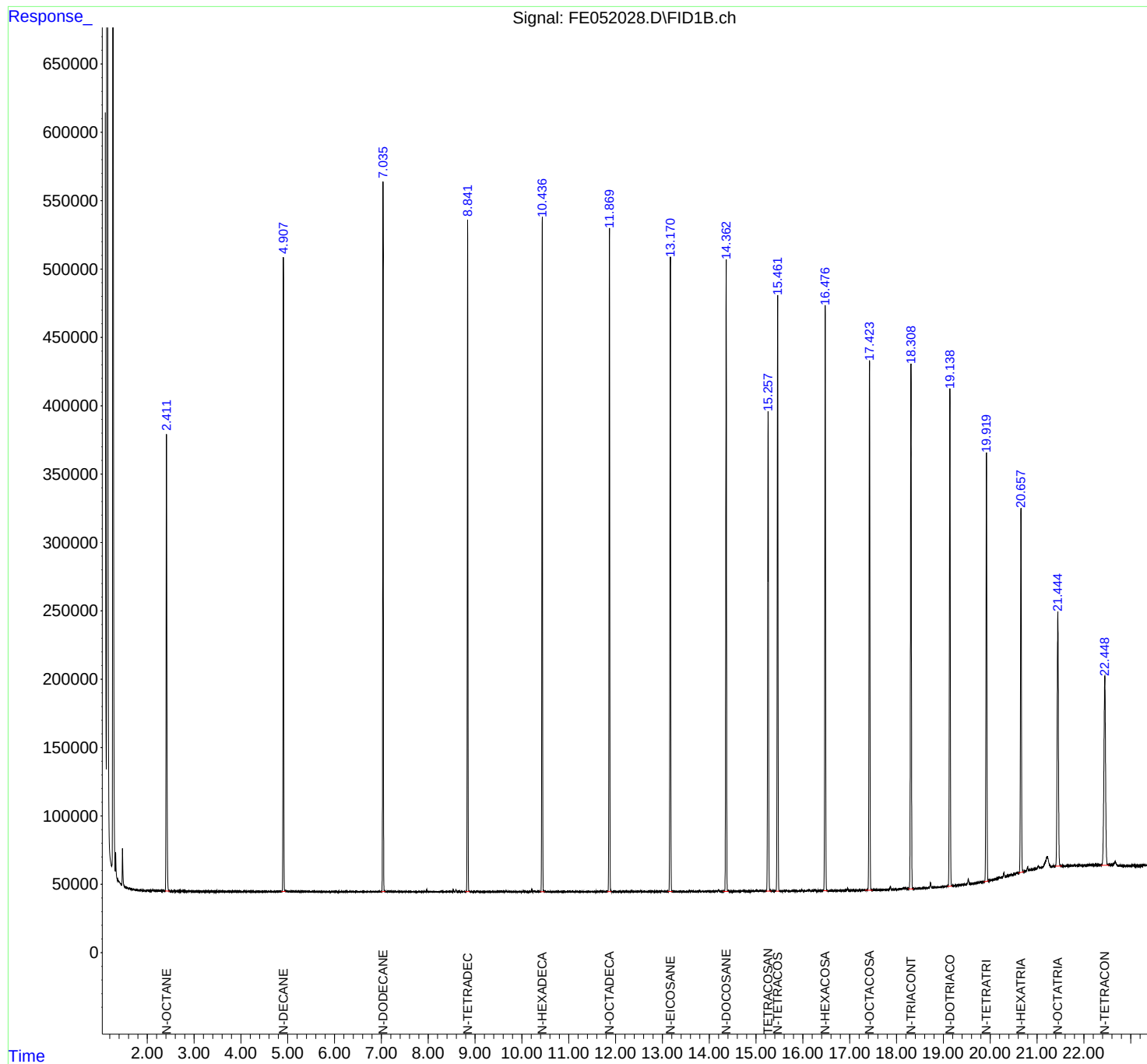
(m)=manual int.

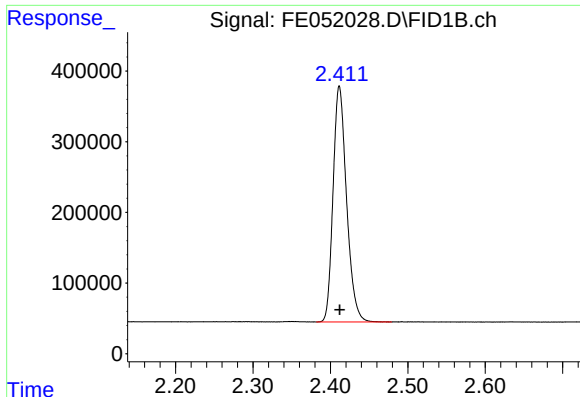
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052028.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:06
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

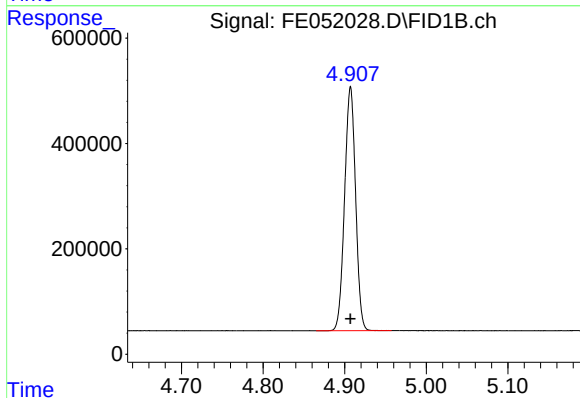




#1 N-OCTANE

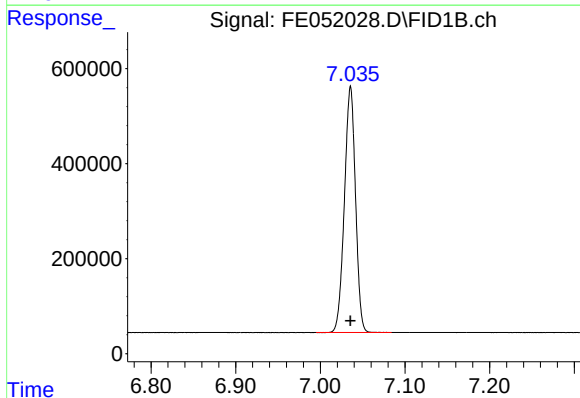
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 4040248
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



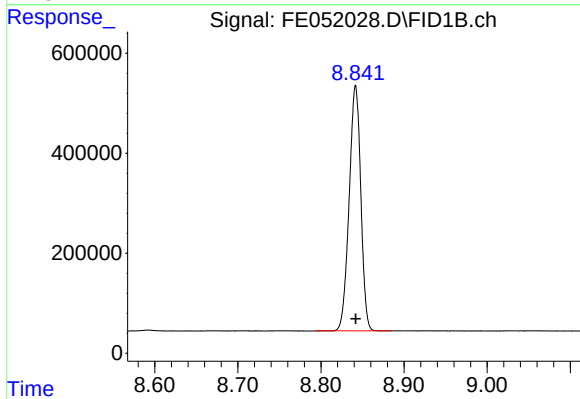
#2 N-DECANE

R.T.: 4.907 min
Delta R.T.: 0.000 min
Response: 4328284
Conc: 50.00 ug/ml



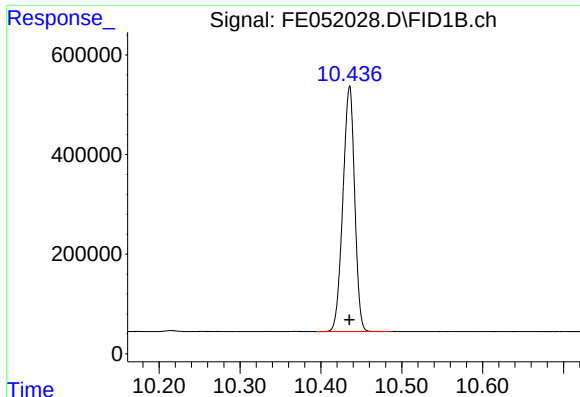
#3 N-DODECANE

R.T.: 7.036 min
Delta R.T.: 0.000 min
Response: 4713212
Conc: 50.00 ug/ml



#4 N-TETRADECANE

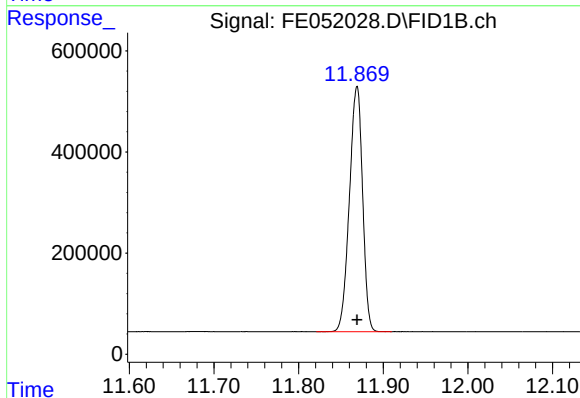
R.T.: 8.842 min
Delta R.T.: 0.000 min
Response: 4775185
Conc: 50.00 ug/ml



#5 N-HEXADECANE

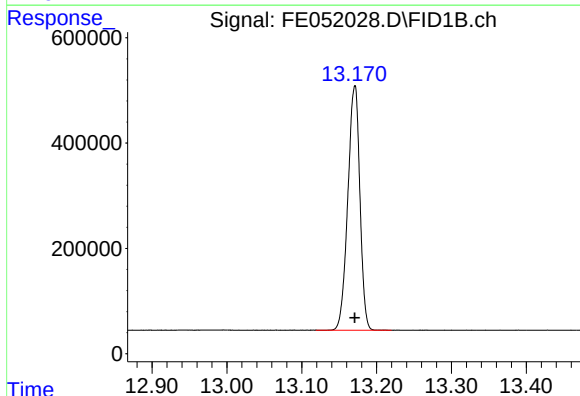
R.T.: 10.436 min
Delta R.T.: 0.000 min
Response: 4988963
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



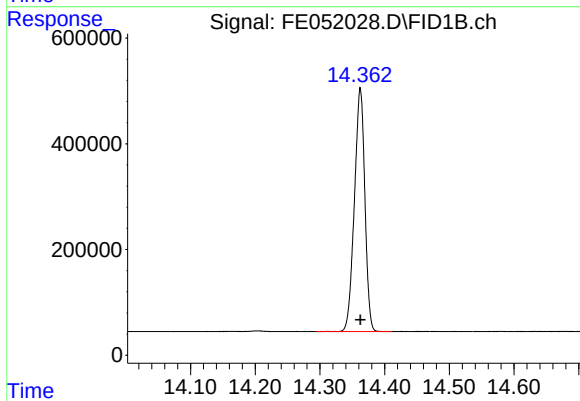
#6 N-OCTADECANE

R.T.: 11.869 min
Delta R.T.: 0.000 min
Response: 5246868
Conc: 50.00 ug/ml



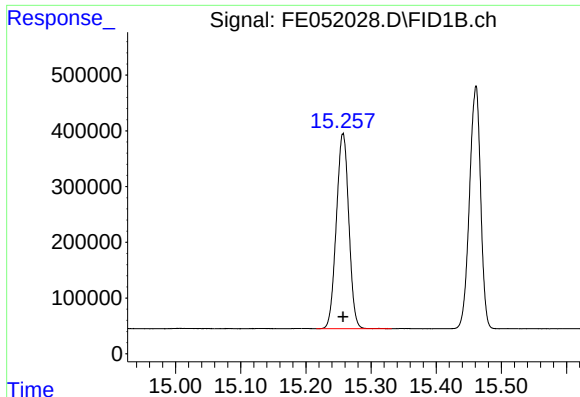
#7 N-EICOSANE

R.T.: 13.171 min
Delta R.T.: 0.000 min
Response: 5196311
Conc: 50.00 ug/ml



#8 N-DOCOSANE

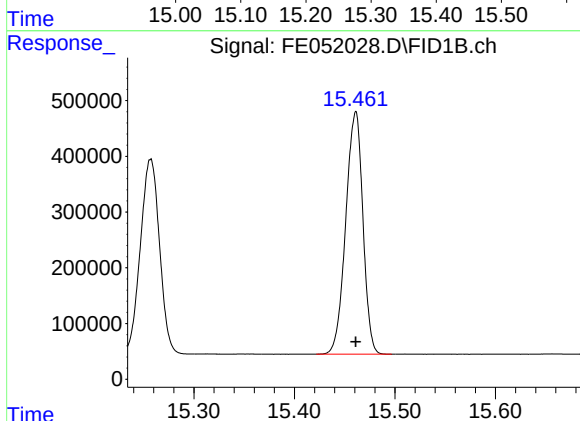
R.T.: 14.362 min
Delta R.T.: 0.000 min
Response: 5172075
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

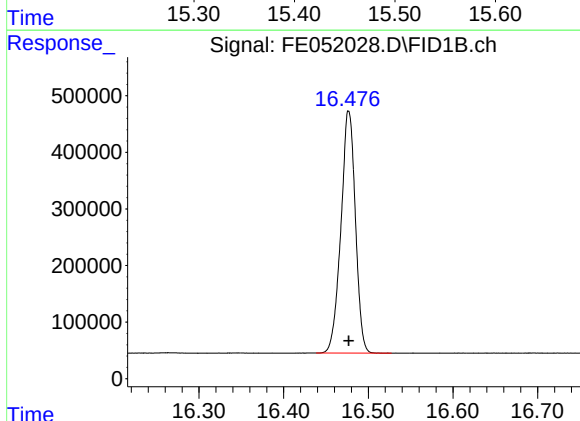
R.T.: 15.257 min
Delta R.T.: 0.000 min
Response: 4655317
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



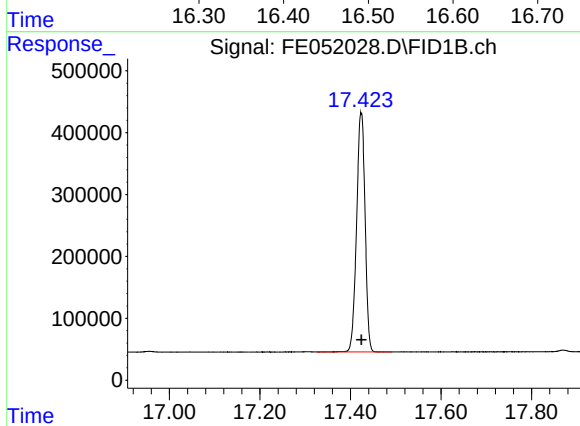
#10 N-TETRACOSANE

R.T.: 15.461 min
Delta R.T.: 0.000 min
Response: 5165286
Conc: 50.00 ug/ml



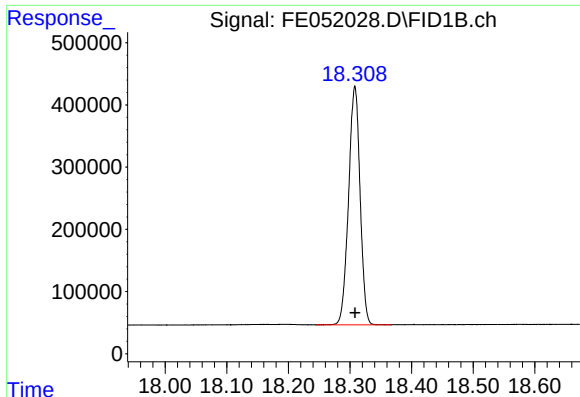
#11 N-HEXACOSANE

R.T.: 16.477 min
Delta R.T.: 0.000 min
Response: 5089619
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

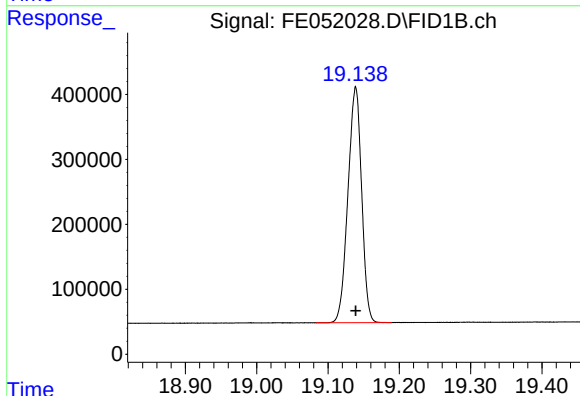
R.T.: 17.424 min
Delta R.T.: 0.000 min
Response: 5035229
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

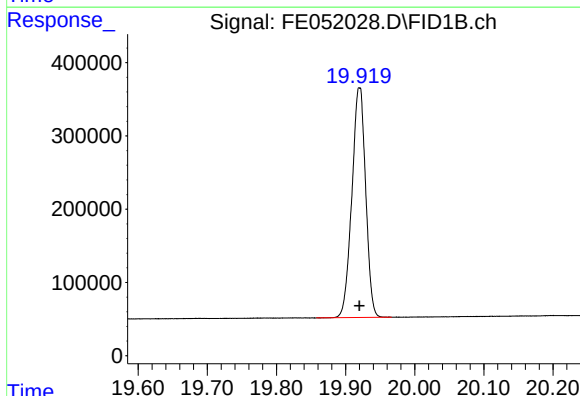
R.T.: 18.308 min
Delta R.T.: 0.000 min
Response: 4974786
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



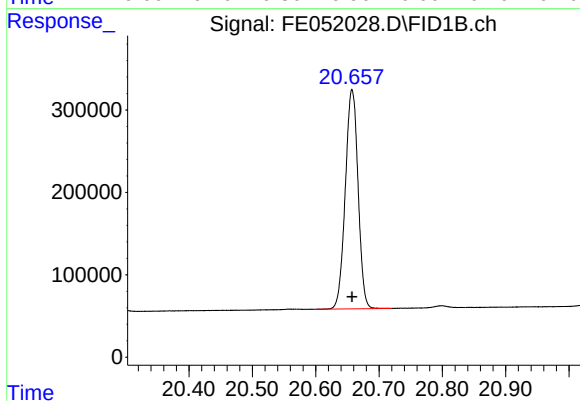
#14 N-DOTRIACONTANE

R.T.: 19.139 min
Delta R.T.: 0.000 min
Response: 4832453
Conc: 50.00 ug/ml



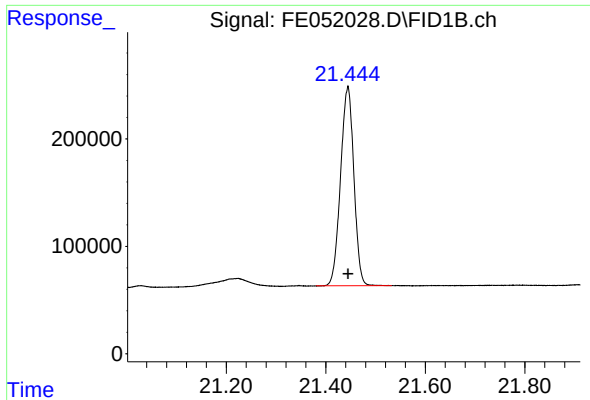
#15 N-TETRATRIACONTANE

R.T.: 19.920 min
Delta R.T.: 0.000 min
Response: 4342985
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

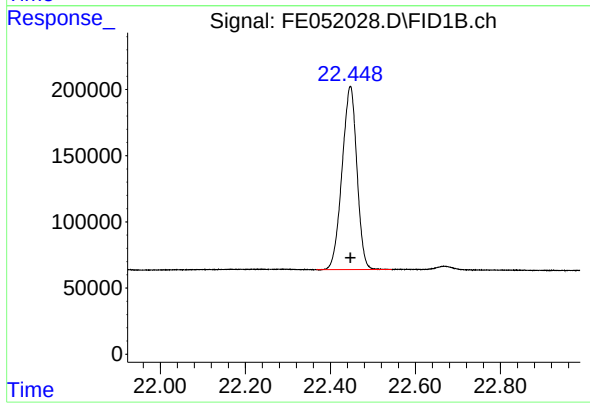
R.T.: 20.657 min
Delta R.T.: 0.000 min
Response: 3725450
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.445 min
Delta R.T.: 0.000 min
Response: 3442776
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.447 min
Delta R.T.: 0.000 min
Response: 3364772
Conc: 50.00 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
 Data File : FE052028.D
 Signal(s) : FID1B.ch
 Acq On : 23 Jan 2025 23:06
 Sample : 50 TRPH STD
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.382	2.479	BB	334007	4040248	77.00%	4.863%
2	4.907	4.865	4.957	BB	463698	4328284	82.49%	5.209%
3	7.036	6.995	7.084	BB	518684	4713212	89.83%	5.672%
4	8.842	8.794	8.885	BB	491118	4775185	91.01%	5.747%
5	10.436	10.394	10.487	BB	493549	4988963	95.08%	6.004%
6	11.869	11.821	11.910	BB	485508	5246868	100.00%	6.315%
7	13.171	13.119	13.220	BB	464348	5196311	99.04%	6.254%
8	14.362	14.294	14.411	BB	460694	5172075	98.57%	6.225%
9	15.257	15.216	15.332	BV	349212	4655317	88.73%	5.603%
10	15.461	15.422	15.497	BB	435610	5165286	98.45%	6.217%
11	16.477	16.438	16.527	BB	427488	5089619	97.00%	6.125%
12	17.424	17.324	17.491	BB	386262	5035229	95.97%	6.060%
13	18.308	18.245	18.367	BB	384042	4974786	94.81%	5.987%
14	19.139	19.083	19.189	BB	362886	4832453	92.10%	5.816%
15	19.920	19.857	19.967	BB	313315	4342985	82.77%	5.227%
16	20.657	20.601	20.720	BV	266273	3725450	71.00%	4.484%
17	21.445	21.381	21.532	BB	186220	3442776	65.62%	4.143%
18	22.447	22.367	22.544	BB	138429	3364772	64.13%	4.050%
Sum of corrected areas:						83089819		

FE012325.M Fri Jan 24 03:18:33 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
 Data File : FE052029.D
 Signal(s) : FID1B.ch
 Acq On : 23 Jan 2025 23:36
 Operator : YP\AJ
 Sample : 20 TRPH STD
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 TRPH STD

Integration File: autoint1.e
 Quant Time: Jan 24 03:01:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:00:39 2025
 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...	15.254	1967122	21.128 ug/ml
Target Compounds			
1) N-OCTANE	2.412	1671507	20.686 ug/ml
2) N-DECANE	4.906	1790386	20.682 ug/ml
3) N-DODECANE	7.034	1959669	20.789 ug/ml
4) N-TETRADECANE	8.840	1996208	20.902 ug/ml
5) N-HEXADECANE	10.433	2090226	20.949 ug/ml
6) N-OCTADECANE	11.866	2202071	20.985 ug/ml
7) N-EICOSANE	13.168	2188908	21.062 ug/ml
8) N-DOCOSANE	14.360	2186141	21.134 ug/ml
10) N-TETRACOSANE	15.457	2185765	21.158 ug/ml
11) N-HEXACOSANE	16.475	2160412	21.224 ug/ml
12) N-OCTACOSANE	17.421	2147225	21.322 ug/ml
13) N-TRIACONTANE	18.305	2136983	21.478 ug/ml
14) N-DOTRIACONTANE	19.136	2078753	21.508 ug/ml
15) N-TETRATRIACONTANE	19.918	1833911	21.113 ug/ml
16) N-HEXATRIACONTANE	20.657	1534108	20.590 ug/ml
17) N-OCTATRIACONTANE	21.439	1367415	19.859 ug/ml
18) N-TETRACONTANE	22.440	1309204	19.455 ug/ml

(f)=RT Delta > 1/2 Window

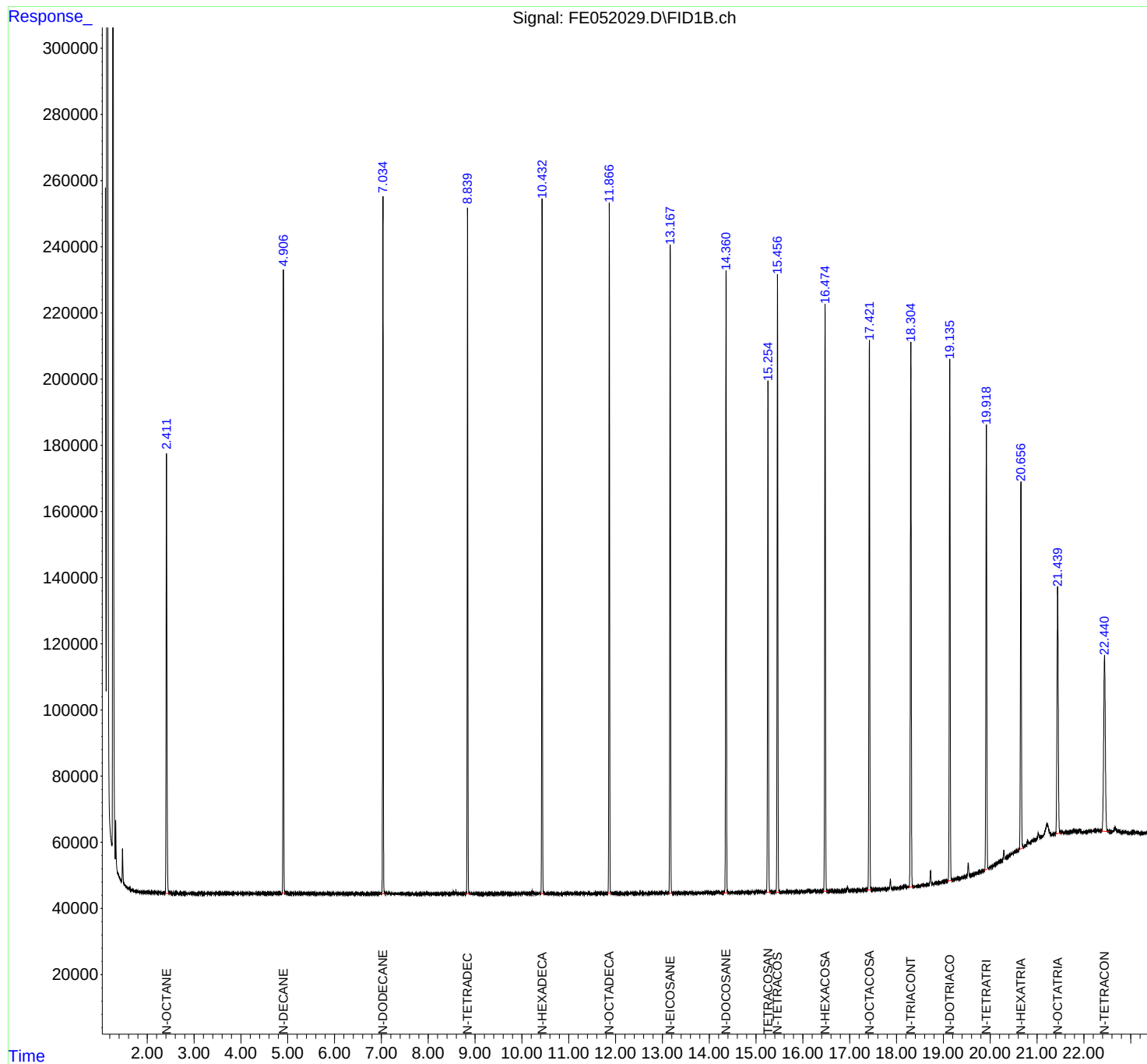
(m)=manual int.

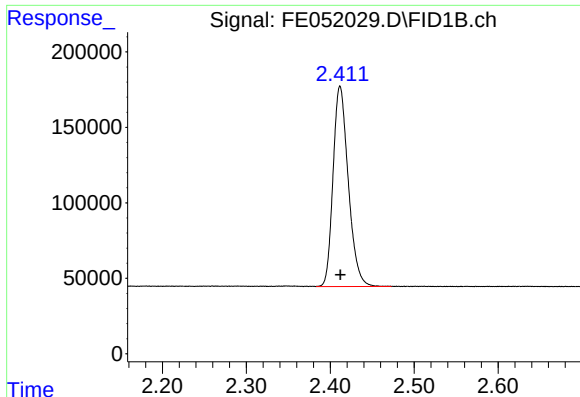
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052029.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:36
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

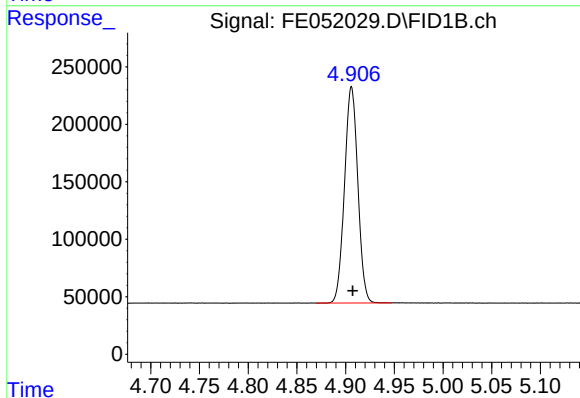




#1 N-OCTANE

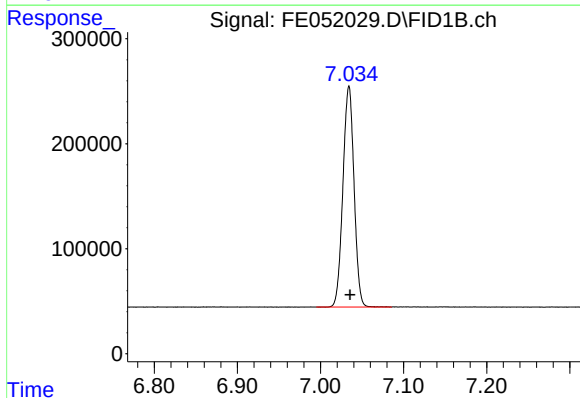
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 1671507
Conc: 20.69 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



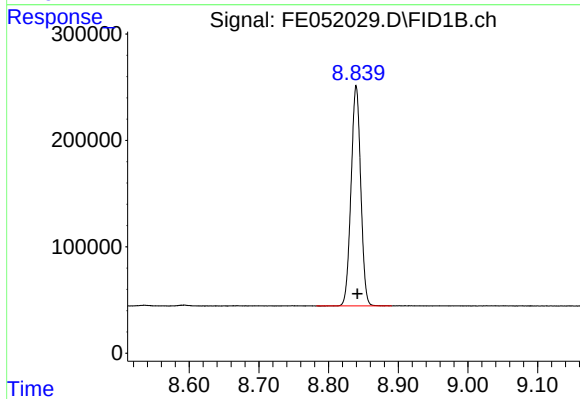
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: -0.001 min
Response: 1790386
Conc: 20.68 ug/ml



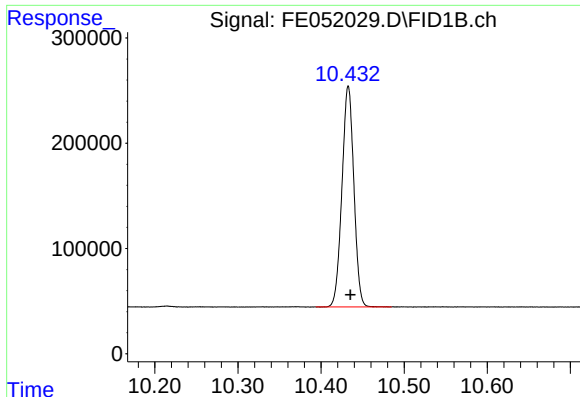
#3 N-DODECANE

R.T.: 7.034 min
Delta R.T.: -0.001 min
Response: 1959669
Conc: 20.79 ug/ml



#4 N-TETRADECANE

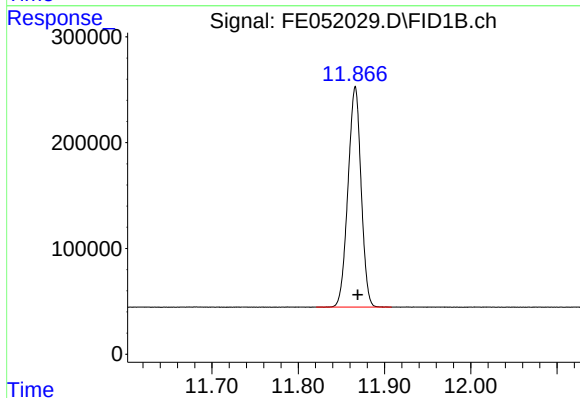
R.T.: 8.840 min
Delta R.T.: -0.002 min
Response: 1996208
Conc: 20.90 ug/ml



#5 N-HEXADECANE

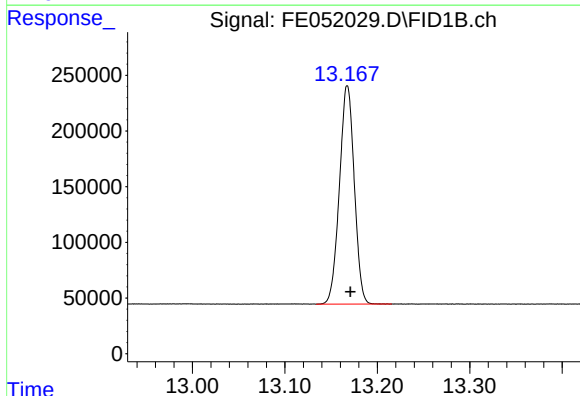
R.T.: 10.433 min
Delta R.T.: -0.003 min
Response: 2090226
Conc: 20.95 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



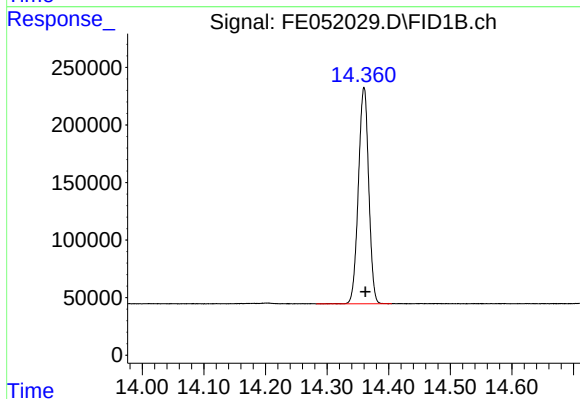
#6 N-OCTADECANE

R.T.: 11.866 min
Delta R.T.: -0.003 min
Response: 2202071
Conc: 20.98 ug/ml



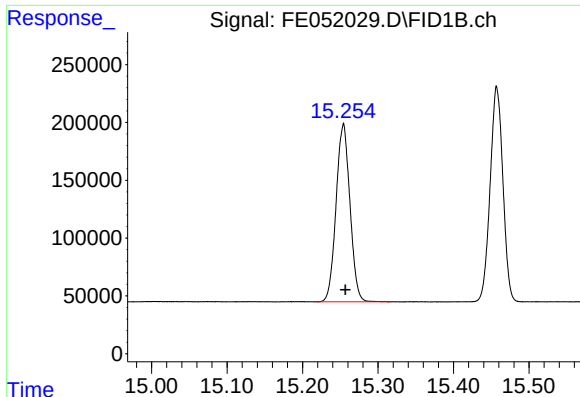
#7 N-EICOSANE

R.T.: 13.168 min
Delta R.T.: -0.003 min
Response: 2188908
Conc: 21.06 ug/ml



#8 N-DOCOSANE

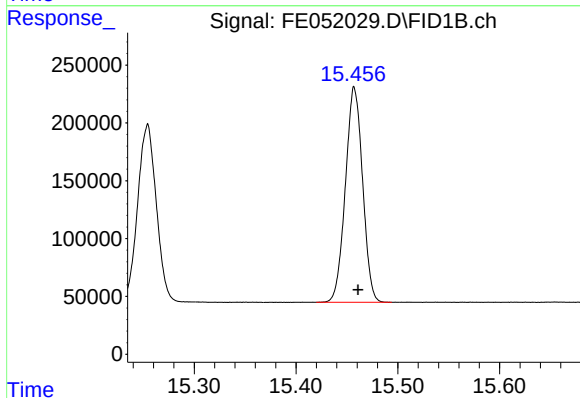
R.T.: 14.360 min
Delta R.T.: -0.002 min
Response: 2186141
Conc: 21.13 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

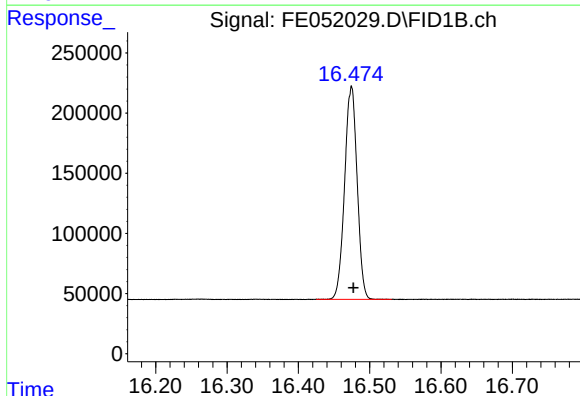
R.T.: 15.254 min
Delta R.T.: -0.003 min
Response: 1967122
Conc: 21.13 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



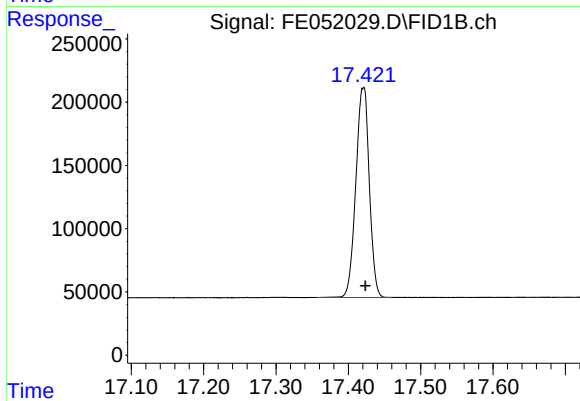
#10 N-TETRACOSANE

R.T.: 15.457 min
Delta R.T.: -0.004 min
Response: 2185765
Conc: 21.16 ug/ml



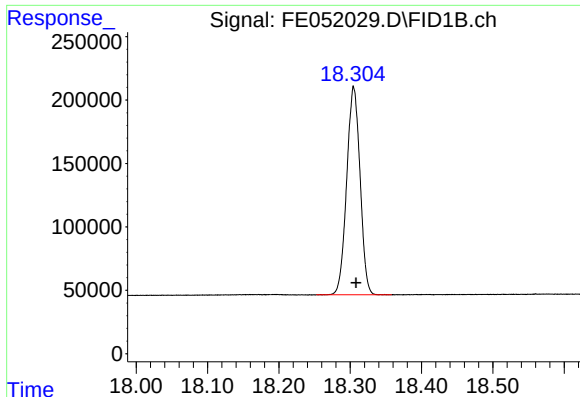
#11 N-HEXACOSANE

R.T.: 16.475 min
Delta R.T.: -0.002 min
Response: 2160412
Conc: 21.22 ug/ml



#12 N-OCTACOSANE

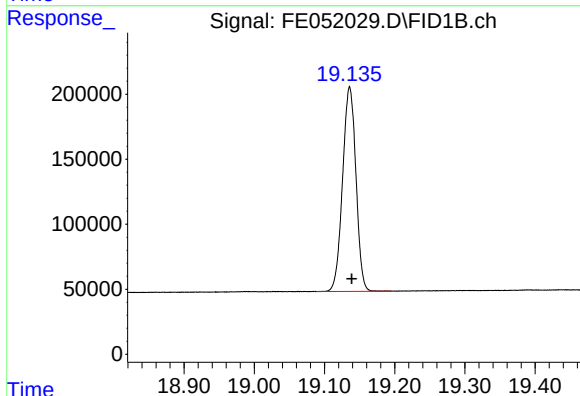
R.T.: 17.421 min
Delta R.T.: -0.003 min
Response: 2147225
Conc: 21.32 ug/ml



#13 N-TRIACONTANE

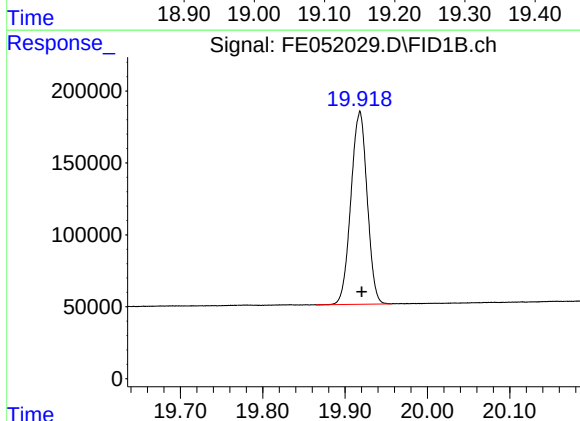
R.T.: 18.305 min
Delta R.T.: -0.003 min
Response: 2136983
Conc: 21.48 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



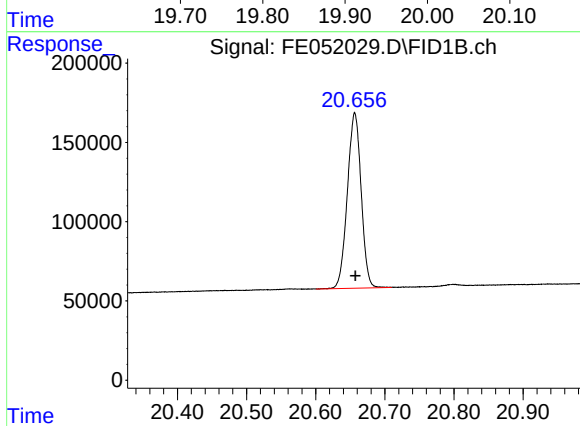
#14 N-DOTRIACONTANE

R.T.: 19.136 min
Delta R.T.: -0.003 min
Response: 2078753
Conc: 21.51 ug/ml



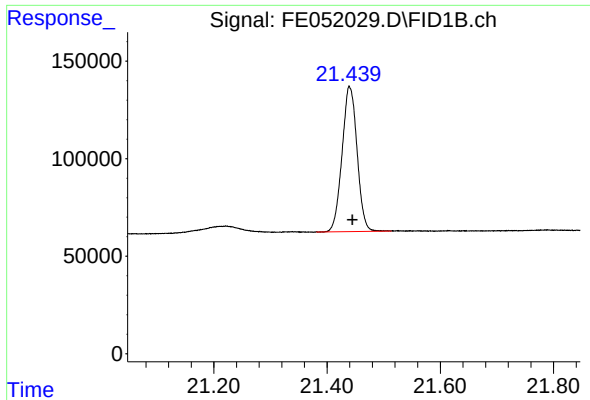
#15 N-TETRATRIACONTANE

R.T.: 19.918 min
Delta R.T.: -0.002 min
Response: 1833911
Conc: 21.11 ug/ml



#16 N-HEXATRIACONTANE

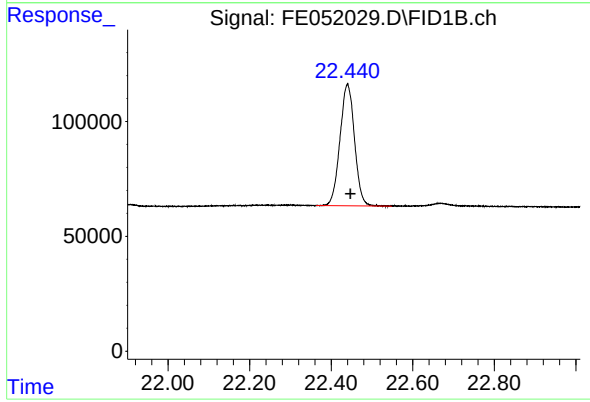
R.T.: 20.657 min
Delta R.T.: 0.000 min
Response: 1534108
Conc: 20.59 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.439 min
Delta R.T.: -0.005 min
Response: 1367415
Conc: 19.86 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.440 min
Delta R.T.: -0.007 min
Response: 1309204
Conc: 19.45 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052029.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:36
Sample : 20 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.383	2.473	BB	132906	1671507	75.91%	4.802%
2	4.906	4.870	4.947	BB	188470	1790386	81.30%	5.144%
3	7.034	6.995	7.086	BB	210395	1959669	88.99%	5.630%
4	8.840	8.782	8.891	BB	206958	1996208	90.65%	5.735%
5	10.433	10.394	10.485	BB	210083	2090226	94.92%	6.005%
6	11.866	11.821	11.908	BB	209078	2202071	100.00%	6.327%
7	13.168	13.134	13.216	BB	196057	2188908	99.40%	6.289%
8	14.360	14.282	14.405	BB	188088	2186141	99.28%	6.281%
9	15.254	15.218	15.318	BB	154122	1967122	89.33%	5.652%
10	15.457	15.420	15.494	BB	185791	2185765	99.26%	6.280%
11	16.475	16.425	16.531	BB	177131	2160412	98.11%	6.207%
12	17.421	17.356	17.460	BB	165726	2147225	97.51%	6.169%
13	18.305	18.252	18.358	BB	163835	2136983	97.04%	6.140%
14	19.136	19.088	19.196	BB	157435	2078753	94.40%	5.972%
15	19.918	19.865	19.957	BB	134470	1833911	83.28%	5.269%
16	20.657	20.601	20.710	BB	110823	1534108	69.67%	4.408%
17	21.439	21.381	21.514	BB	74580	1367415	62.10%	3.929%
18	22.440	22.363	22.548	BB	53116	1309204	59.45%	3.761%
Sum of corrected areas:						34806015		

FE012325.M Fri Jan 24 03:19:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
 Data File : FE052030.D
 Signal(s) : FID1B.ch
 Acq On : 24 Jan 2025 00:06
 Operator : YP\AJ
 Sample : 10 TRPH STD
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 TRPH STD

Integration File: autoint1.e
 Quant Time: Jan 24 03:02:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:00:39 2025
 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...	15.253	1061033	11.396 ug/ml
Target Compounds			
1) N-OCTANE	2.412	889828	11.012 ug/ml
2) N-DECANE	4.906	959030	11.079 ug/ml
3) N-DODECANE	7.033	1052037	11.161 ug/ml
4) N-TETRADECANE	8.839	1077547	11.283 ug/ml
5) N-HEXADECANE	10.432	1131977	11.345 ug/ml
6) N-OCTADECANE	11.865	1193205	11.371 ug/ml
7) N-EICOSANE	13.167	1184917	11.402 ug/ml
8) N-DOCOSANE	14.358	1182709	11.434 ug/ml
10) N-TETRACOSANE	15.456	1180708	11.429 ug/ml
11) N-HEXACOSANE	16.473	1163260	11.428 ug/ml
12) N-OCTACOSANE	17.419	1147105	11.391 ug/ml
13) N-TRIACONTANE	18.304	1137270	11.430 ug/ml
14) N-DOTRIACONTANE	19.134	1110748	11.493 ug/ml
15) N-TETRATRIACONTANE	19.915	1019077	11.732 ug/ml
16) N-HEXATRIACONTANE	20.653	911856	12.238 ug/ml
17) N-OCTATRIACONTANE	21.439	859350	12.480 ug/ml
18) N-TETRACONTANE	22.441	882539	13.114 ug/ml

(f)=RT Delta > 1/2 Window

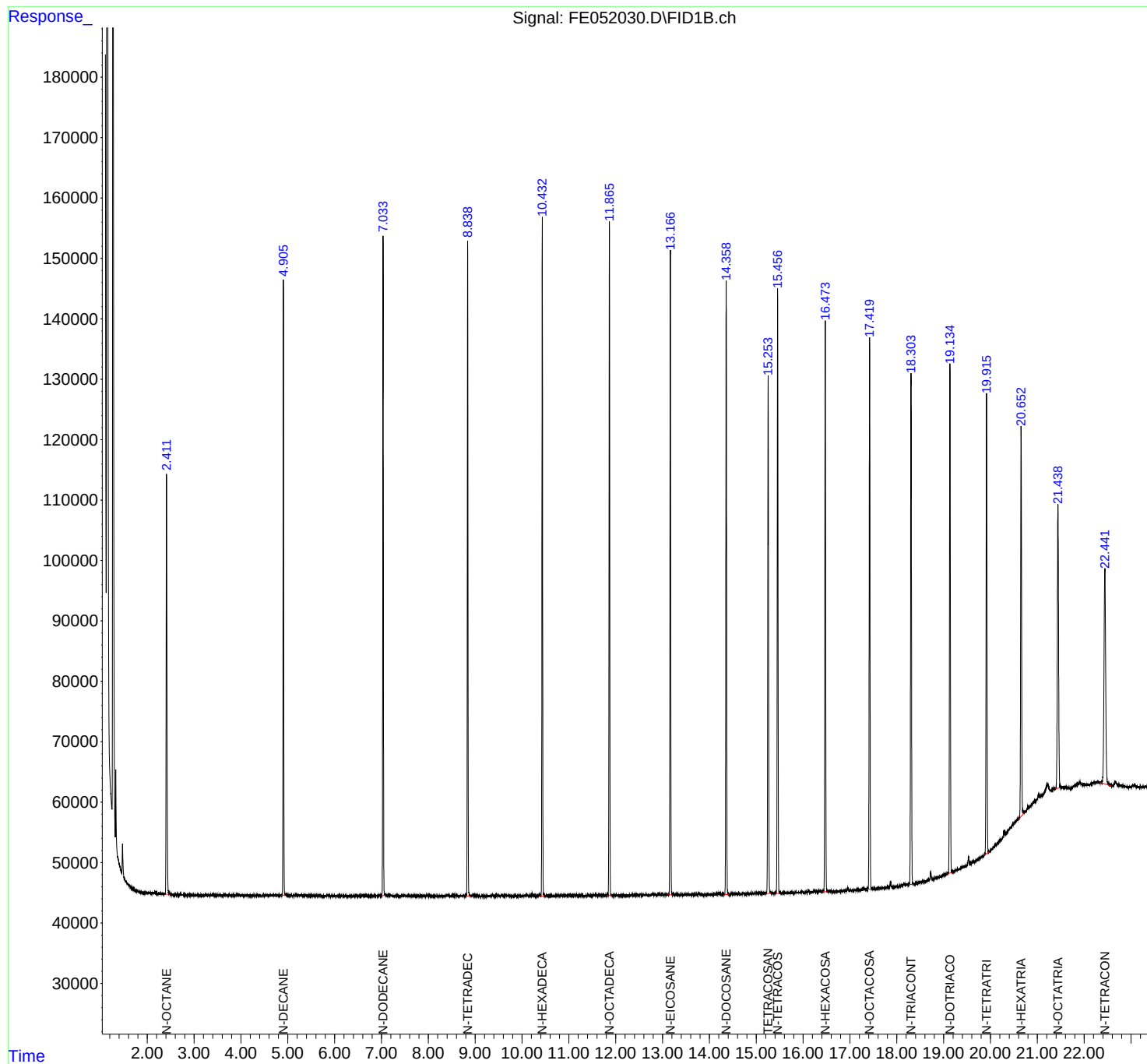
(m)=manual int.

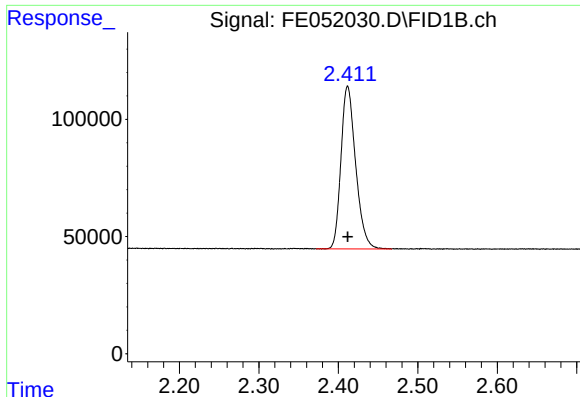
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052030.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:06
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:02:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

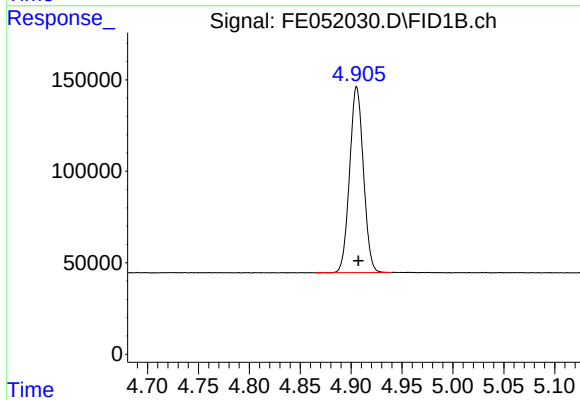




#1 N-OCTANE

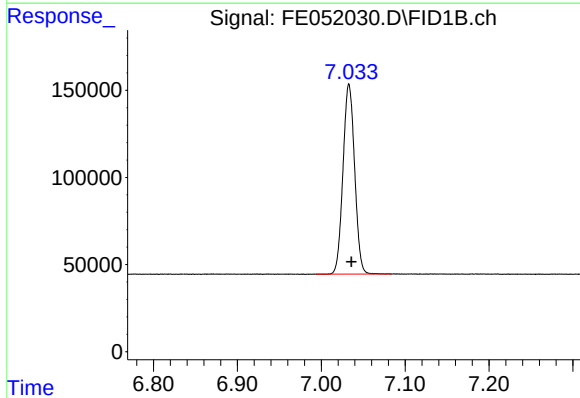
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 889828
Conc: 11.01 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



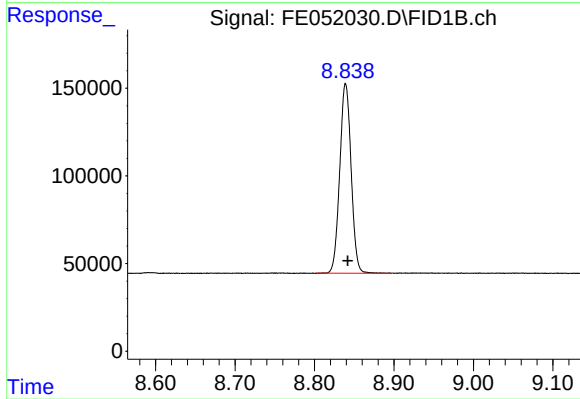
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: -0.002 min
Response: 959030
Conc: 11.08 ug/ml



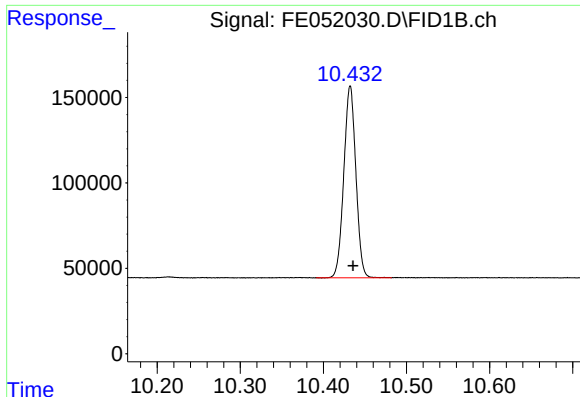
#3 N-DODECANE

R.T.: 7.033 min
Delta R.T.: -0.003 min
Response: 1052037
Conc: 11.16 ug/ml



#4 N-TETRADECANE

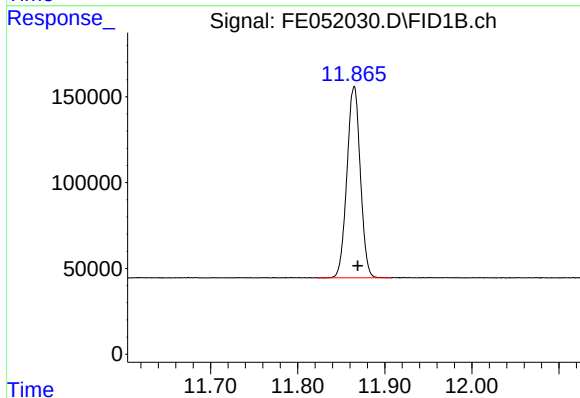
R.T.: 8.839 min
Delta R.T.: -0.003 min
Response: 1077547
Conc: 11.28 ug/ml



#5 N-HEXADECANE

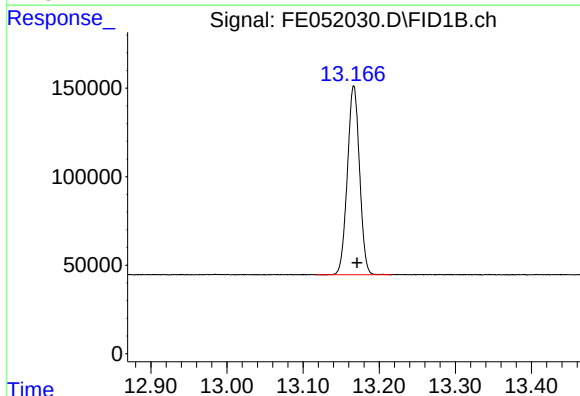
R.T.: 10.432 min
Delta R.T.: -0.003 min
Response: 1131977
Conc: 11.34 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



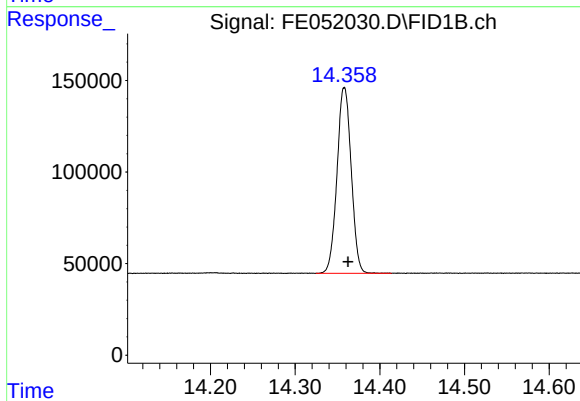
#6 N-OCTADECANE

R.T.: 11.865 min
Delta R.T.: -0.004 min
Response: 1193205
Conc: 11.37 ug/ml



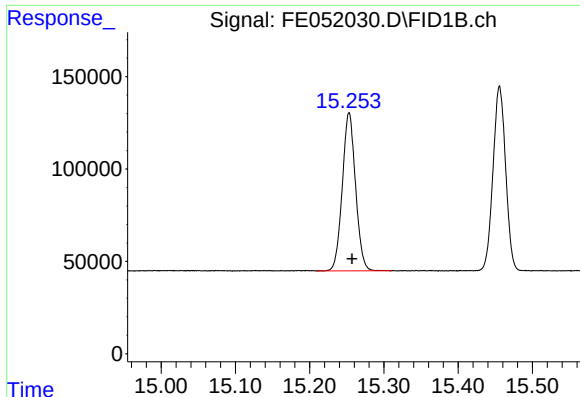
#7 N-EICOSANE

R.T.: 13.167 min
Delta R.T.: -0.004 min
Response: 1184917
Conc: 11.40 ug/ml



#8 N-DOCOSANE

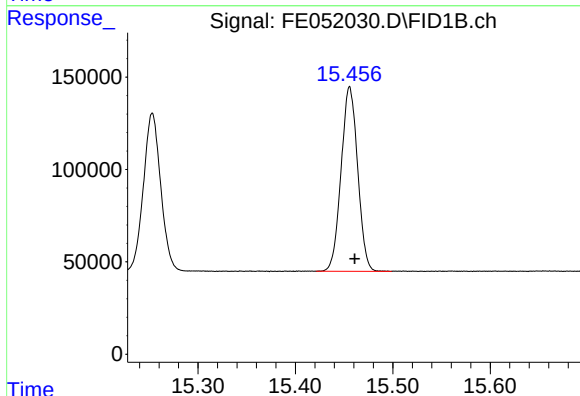
R.T.: 14.358 min
Delta R.T.: -0.004 min
Response: 1182709
Conc: 11.43 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

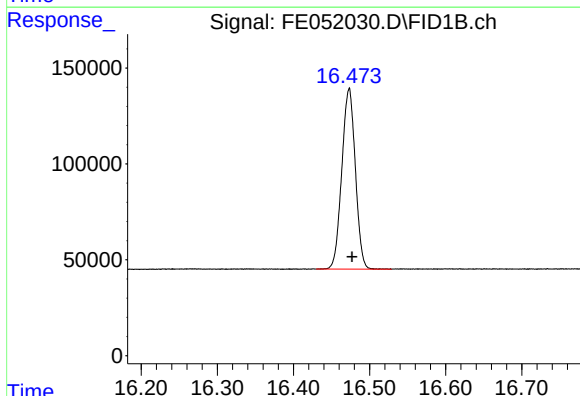
R.T.: 15.253 min
Delta R.T.: -0.004 min
Response: 1061033
Conc: 11.40 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



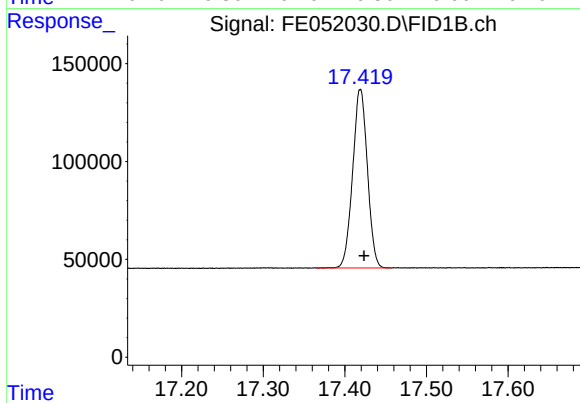
#10 N-TETRACOSANE

R.T.: 15.456 min
Delta R.T.: -0.005 min
Response: 1180708
Conc: 11.43 ug/ml



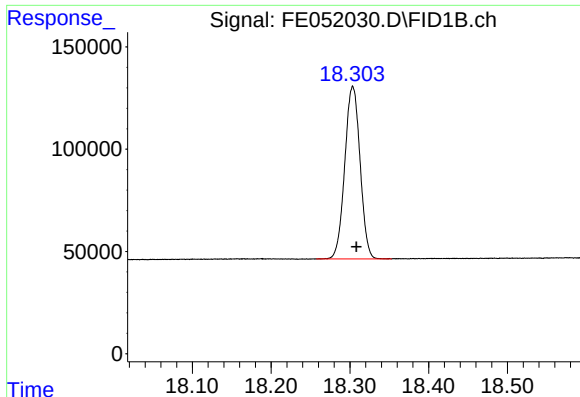
#11 N-HEXACOSANE

R.T.: 16.473 min
Delta R.T.: -0.004 min
Response: 1163260
Conc: 11.43 ug/ml



#12 N-OCTACOSANE

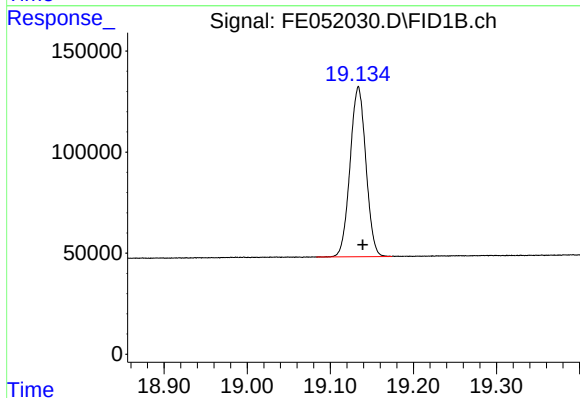
R.T.: 17.419 min
Delta R.T.: -0.005 min
Response: 1147105
Conc: 11.39 ug/ml



#13 N-TRIACONTANE

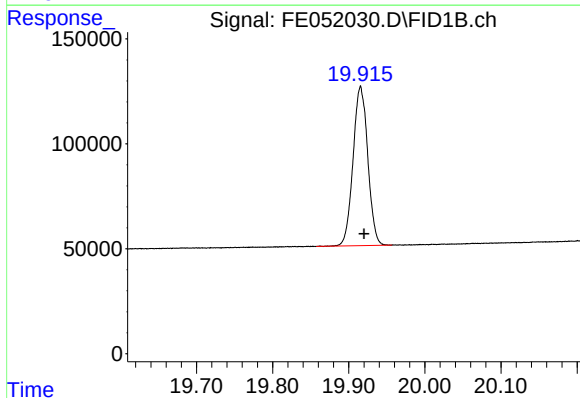
R.T.: 18.304 min
Delta R.T.: -0.004 min
Response: 1137270
Conc: 11.43 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



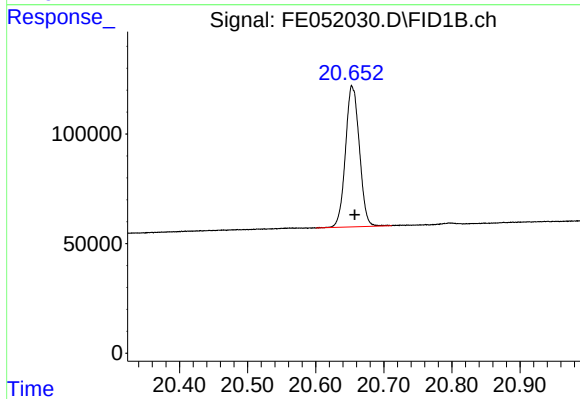
#14 N-DOTRIACONTANE

R.T.: 19.134 min
Delta R.T.: -0.005 min
Response: 1110748
Conc: 11.49 ug/ml



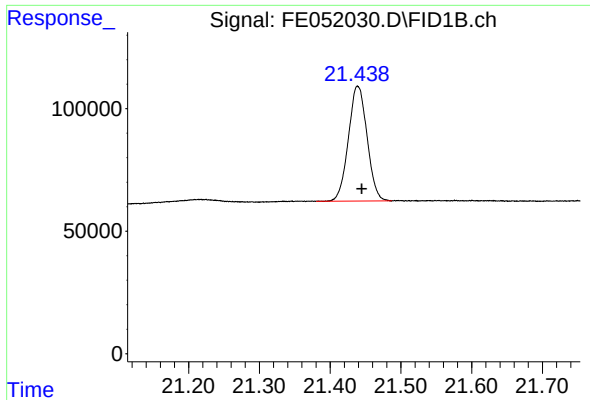
#15 N-TETRATRIACONTANE

R.T.: 19.915 min
Delta R.T.: -0.005 min
Response: 1019077
Conc: 11.73 ug/ml



#16 N-HEXATRIACONTANE

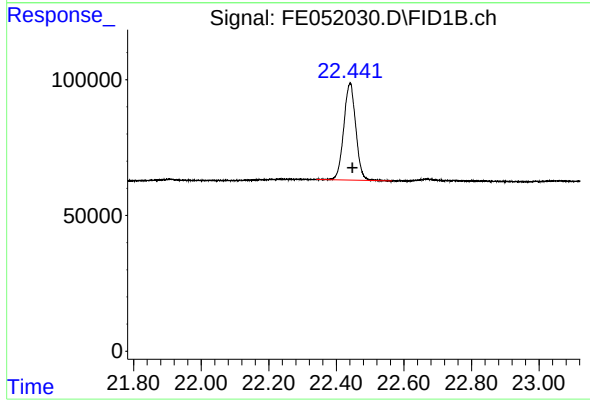
R.T.: 20.653 min
Delta R.T.: -0.004 min
Response: 911856
Conc: 12.24 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.439 min
Delta R.T.: -0.006 min
Response: 859350
Conc: 12.48 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.441 min
Delta R.T.: -0.006 min
Response: 882539
Conc: 13.11 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052030.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:06
Sample : 10 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.372	2.467	BB	69493	889828	74.57%	4.648%
2	4.906	4.866	4.940	BB	101609	959030	80.37%	5.010%
3	7.033	6.994	7.084	BB	109120	1052037	88.17%	5.495%
4	8.839	8.802	8.897	BB	108235	1077547	90.31%	5.629%
5	10.432	10.391	10.482	BB	112372	1131977	94.87%	5.913%
6	11.865	11.821	11.908	BB	111538	1193205	100.00%	6.233%
7	13.167	13.117	13.216	BB	106724	1184917	99.31%	6.189%
8	14.358	14.325	14.414	BB	101224	1182709	99.12%	6.178%
9	15.253	15.209	15.311	BB	85655	1061033	88.92%	5.542%
10	15.456	15.421	15.499	BB	100063	1180708	98.95%	6.167%
11	16.473	16.430	16.529	BB	94113	1163260	97.49%	6.076%
12	17.419	17.365	17.457	BB	91106	1147105	96.14%	5.992%
13	18.304	18.257	18.353	BB	84490	1137270	95.31%	5.941%
14	19.134	19.083	19.174	BB	84307	1110748	93.09%	5.802%
15	19.915	19.857	19.956	BB	76197	1019077	85.41%	5.323%
16	20.653	20.601	20.711	BB	64297	911856	76.42%	4.763%
17	21.439	21.380	21.487	BV	46908	859350	72.02%	4.489%
18	22.441	22.340	22.563	BV	35571	882539	73.96%	4.610%
Sum of corrected areas:						19144194		

FE012325.M Fri Jan 24 03:19:32 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
 Data File : FE052031.D
 Signal(s) : FID1B.ch
 Acq On : 24 Jan 2025 00:36
 Operator : YP\AJ
 Sample : 5 TRPH STD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 TRPH STD

Integration File: autoint1.e
 Quant Time: Jan 24 03:02:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:00:39 2025
 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...	15.253	535796	5.755 ug/ml
Target Compounds			
1) N-OCTANE	2.412	447517	5.538 ug/ml
2) N-DECANE	4.906	479458	5.539 ug/ml
3) N-DODECANE	7.033	524622	5.565 ug/ml
4) N-TETRADECANE	8.839	538294	5.636 ug/ml
5) N-HEXADECANE	10.432	566935	5.682 ug/ml
6) N-OCTADECANE	11.864	597723	5.696 ug/ml
7) N-EICOSANE	13.166	599565	5.769 ug/ml
8) N-DOCOSANE	14.358	599958	5.800 ug/ml
10) N-TETRACOSANE	15.456	594003	5.750 ug/ml
11) N-HEXACOSANE	16.473	585191	5.749 ug/ml
12) N-OCTACOSANE	17.418	583549	5.795 ug/ml
13) N-TRIACONTANE	18.303	588228	5.912 ug/ml
14) N-DOTRIACONTANE	19.133	573000	5.929 ug/ml
15) N-TETRATRIACONTANE	19.915	509659	5.868 ug/ml
16) N-HEXATRIACONTANE	20.654	427588	5.739 ug/ml
17) N-OCTATRIACONTANE	21.439	394101	5.724 ug/ml
18) N-TETRACONTANE	22.438	382667	5.686 ug/ml

(f)=RT Delta > 1/2 Window

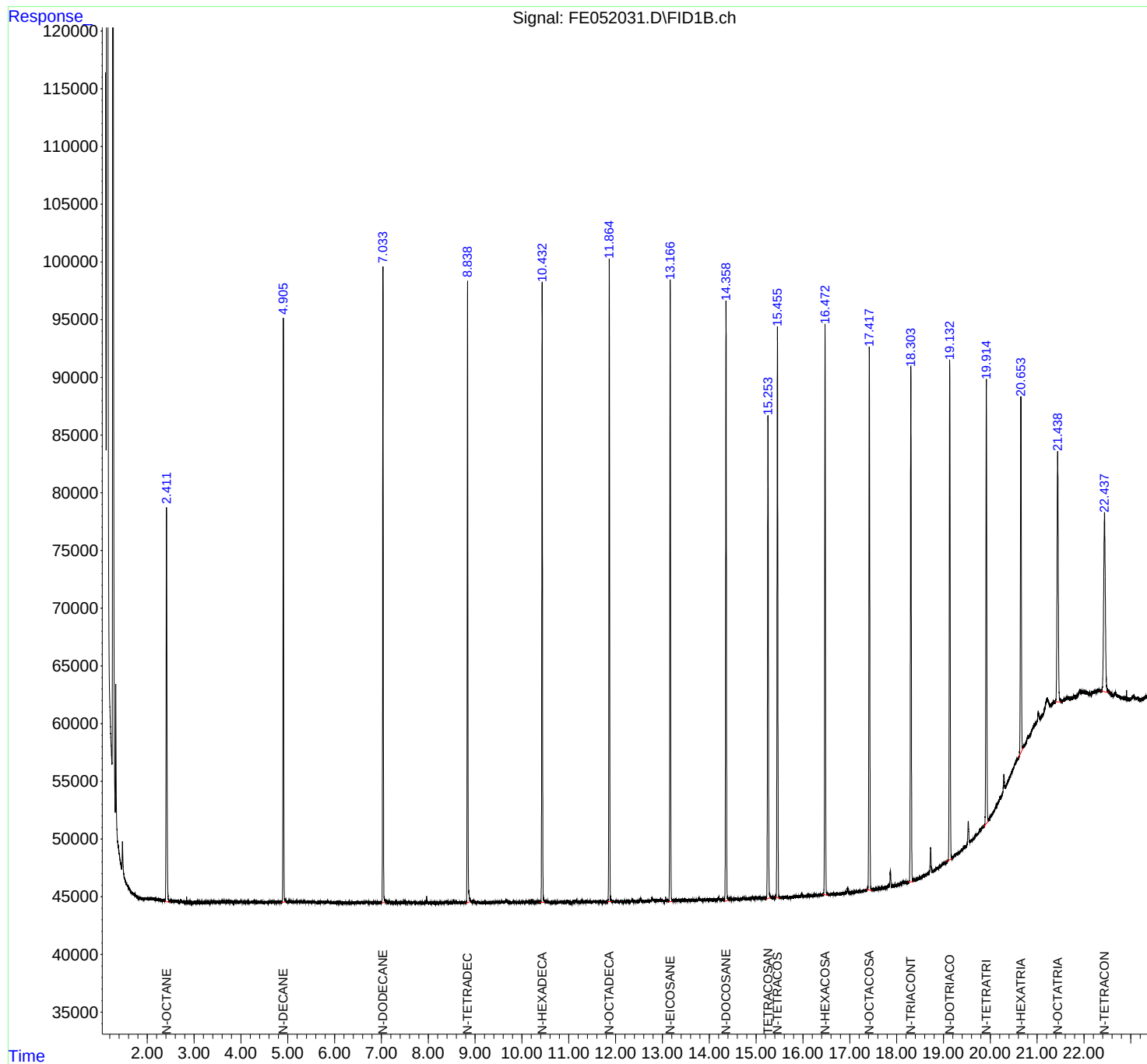
(m)=manual int.

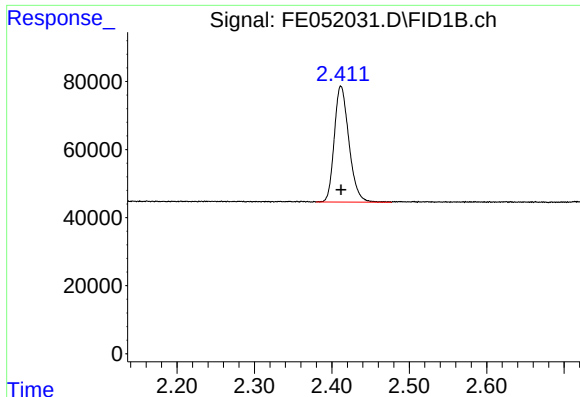
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052031.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:36
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:02:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

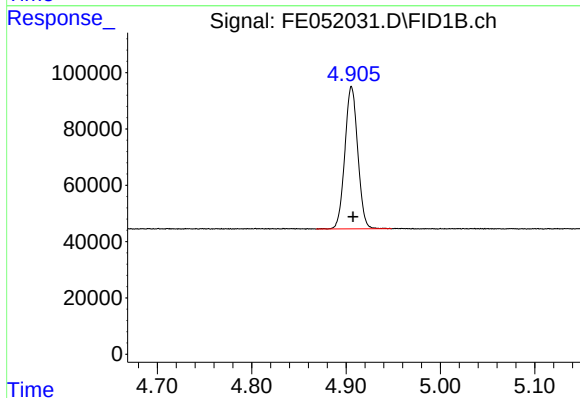




#1 N-OCTANE

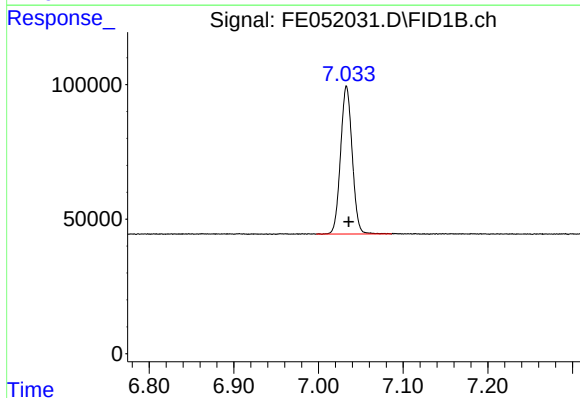
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 447517
Conc: 5.54 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



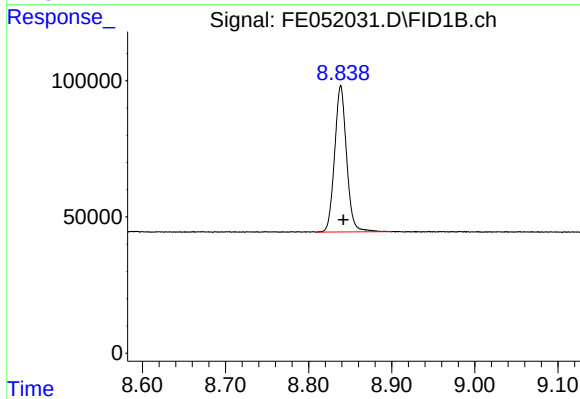
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: -0.001 min
Response: 479458
Conc: 5.54 ug/ml



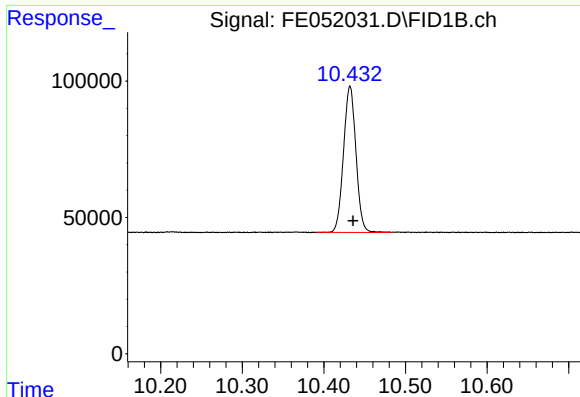
#3 N-DODECANE

R.T.: 7.033 min
Delta R.T.: -0.003 min
Response: 524622
Conc: 5.57 ug/ml



#4 N-TETRADECANE

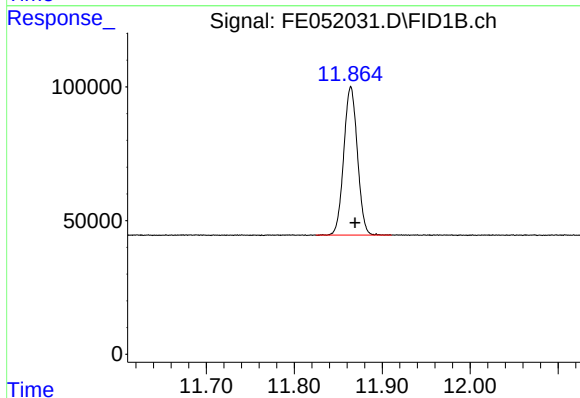
R.T.: 8.839 min
Delta R.T.: -0.003 min
Response: 538294
Conc: 5.64 ug/ml



#5 N-HEXADECANE

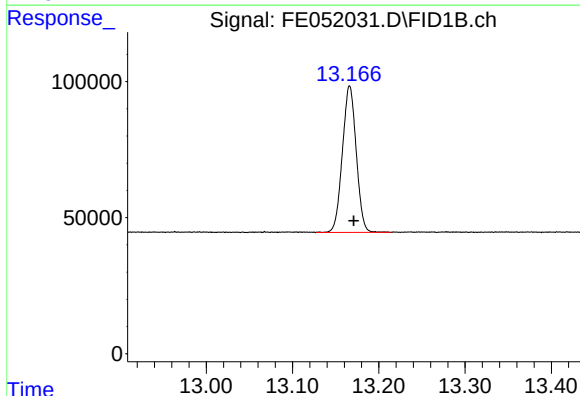
R.T.: 10.432 min
Delta R.T.: -0.003 min
Response: 566935
Conc: 5.68 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



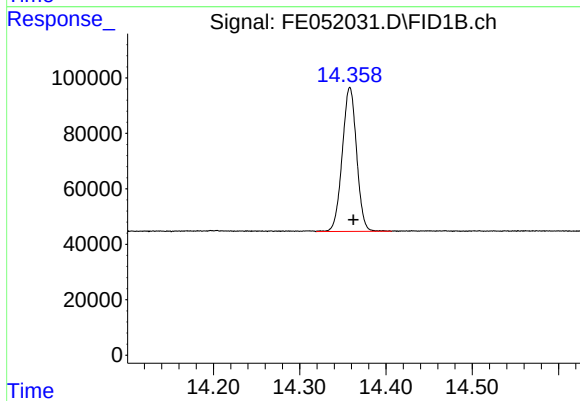
#6 N-OCTADECANE

R.T.: 11.864 min
Delta R.T.: -0.005 min
Response: 597723
Conc: 5.70 ug/ml



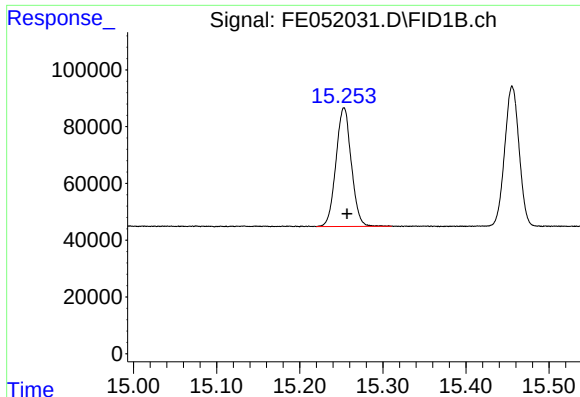
#7 N-EICOSANE

R.T.: 13.166 min
Delta R.T.: -0.005 min
Response: 599565
Conc: 5.77 ug/ml



#8 N-DOCOSANE

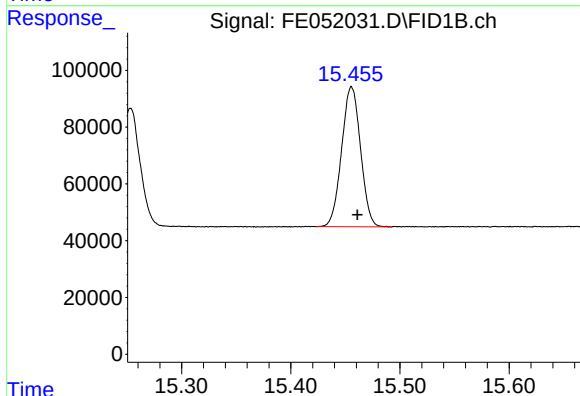
R.T.: 14.358 min
Delta R.T.: -0.004 min
Response: 599958
Conc: 5.80 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

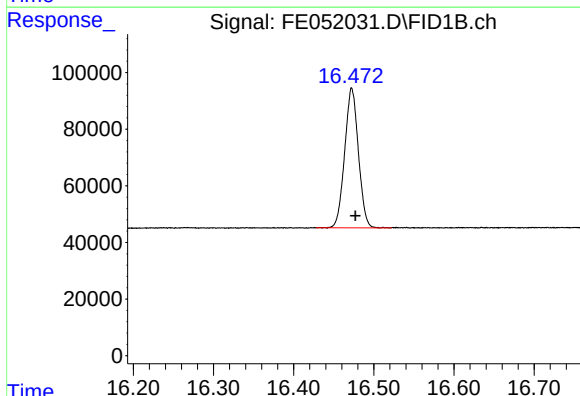
R.T.: 15.253 min
Delta R.T.: -0.004 min
Response: 535796
Conc: 5.75 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



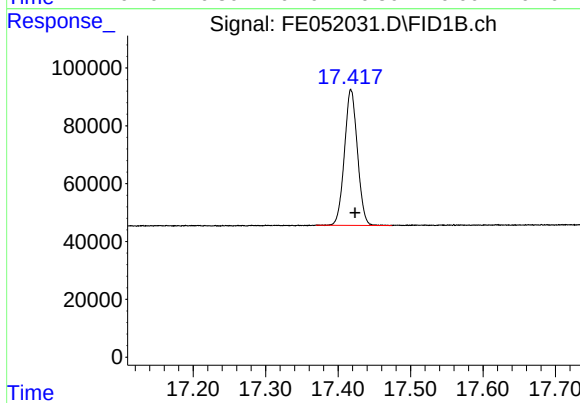
#10 N-TETRACOSANE

R.T.: 15.456 min
Delta R.T.: -0.005 min
Response: 594003
Conc: 5.75 ug/ml



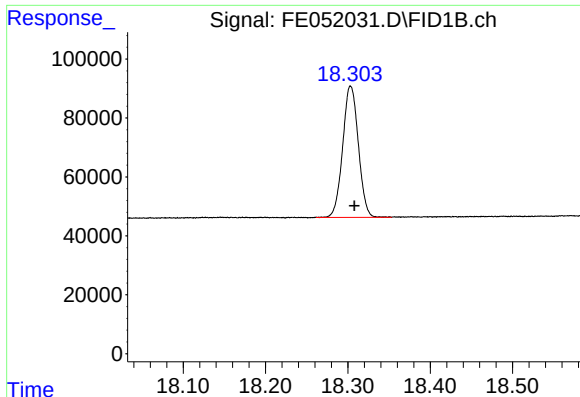
#11 N-HEXACOSANE

R.T.: 16.473 min
Delta R.T.: -0.004 min
Response: 585191
Conc: 5.75 ug/ml



#12 N-OCTACOSANE

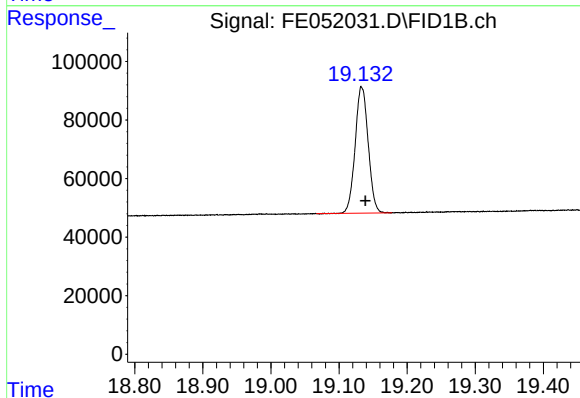
R.T.: 17.418 min
Delta R.T.: -0.006 min
Response: 583549
Conc: 5.79 ug/ml



#13 N-TRIACONTANE

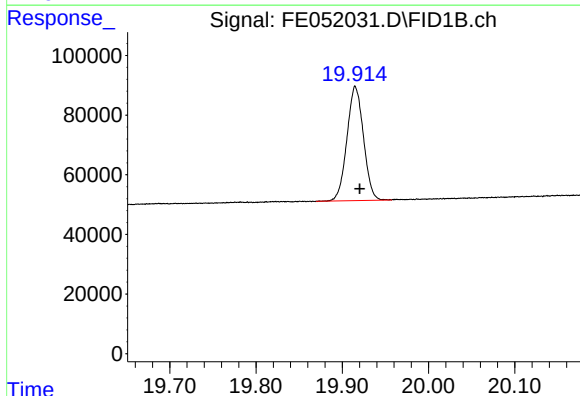
R.T.: 18.303 min
Delta R.T.: -0.005 min
Response: 588228
Conc: 5.91 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



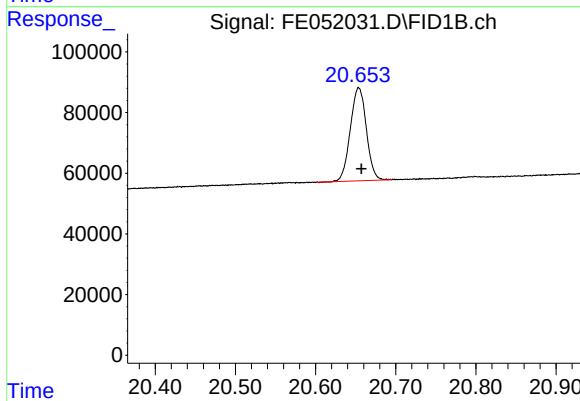
#14 N-DOTRIACONTANE

R.T.: 19.133 min
Delta R.T.: -0.006 min
Response: 573000
Conc: 5.93 ug/ml



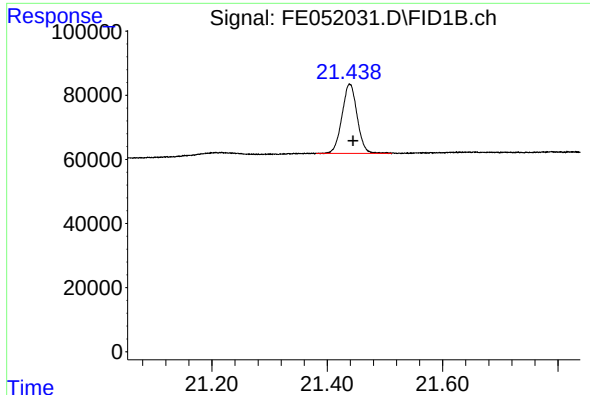
#15 N-TETRATRIACONTANE

R.T.: 19.915 min
Delta R.T.: -0.005 min
Response: 509659
Conc: 5.87 ug/ml



#16 N-HEXATRIACONTANE

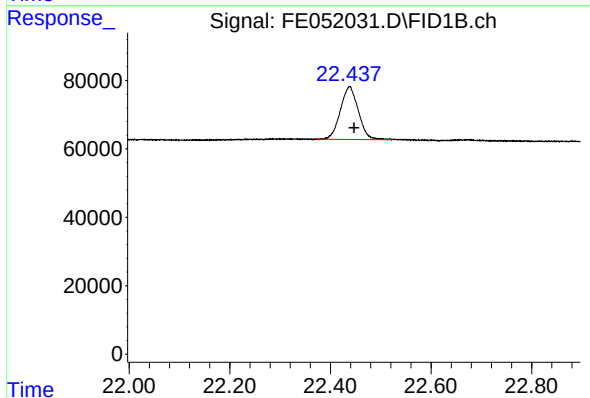
R.T.: 20.654 min
Delta R.T.: -0.004 min
Response: 427588
Conc: 5.74 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.439 min
Delta R.T.: -0.006 min
Response: 394101
Conc: 5.72 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.438 min
Delta R.T.: -0.009 min
Response: 382667
Conc: 5.69 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052031.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:36
Sample : 5 TRPH STD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.380	2.477	BB	34060	447517	74.59%	4.697%
2	4.906	4.868	4.948	BB	50588	479458	79.92%	5.032%
3	7.033	6.997	7.086	BB	55038	524622	87.44%	5.506%
4	8.839	8.809	8.900	BB	53958	538294	89.72%	5.650%
5	10.432	10.391	10.483	BB	53629	566935	94.50%	5.950%
6	11.864	11.825	11.911	BB	55566	597723	99.63%	6.273%
7	13.166	13.127	13.215	BB	53796	599565	99.93%	6.293%
8	14.358	14.319	14.406	BB	51982	599958	100.00%	6.297%
9	15.253	15.220	15.311	BB	41765	535796	89.31%	5.623%
10	15.456	15.423	15.492	BB	49424	594003	99.01%	6.234%
11	16.473	16.428	16.522	BB	49428	585191	97.54%	6.142%
12	17.418	17.370	17.474	BB	46813	583549	97.26%	6.125%
13	18.303	18.261	18.353	BB	44585	588228	98.04%	6.174%
14	19.133	19.066	19.177	BB	42966	573000	95.51%	6.014%
15	19.915	19.870	19.957	BB	38416	509659	84.95%	5.349%
16	20.654	20.601	20.695	BB	30739	427588	71.27%	4.488%
17	21.439	21.381	21.511	BB	21574	394101	65.69%	4.136%
18	22.438	22.371	22.521	BB	15521	382667	63.78%	4.016%
Sum of corrected areas:							9527854	

FE012325.M Fri Jan 24 03:20:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
 Data File : FE052032.D
 Signal(s) : FID1B.ch
 Acq On : 24 Jan 2025 01:06
 Operator : YP\AJ
 Sample : FE012325ICV
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 FE012325ICV

Integration File: autoint1.e
 Quant Time: Jan 24 03:09:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 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...	15.256	4666211	46.850 ug/ml
Target Compounds			
1) N-OCTANE	2.412	3991003	46.799 ug/ml
2) N-DECANE	4.906	4296957	46.959 ug/ml
3) N-DODECANE	7.035	4687706	46.917 ug/ml
4) N-TETRADECANE	8.841	4758083	46.764 ug/ml
5) N-HEXADECANE	10.434	4984676	46.779 ug/ml
6) N-OCTADECANE	11.868	5255597	46.874 ug/ml
7) N-EICOSANE	13.169	5213798	46.811 ug/ml
8) N-DOCOSANE	14.361	5190938	46.752 ug/ml
10) N-TETRACOSANE	15.459	5183378	46.861 ug/ml
11) N-HEXACOSANE	16.476	5097911	46.766 ug/ml
12) N-OCTACOSANE	17.423	5031236	46.612 ug/ml
13) N-TRIACONTANE	18.307	4962414	46.248 ug/ml
14) N-DOTRIACONTANE	19.138	4809025	46.056 ug/ml
15) N-TETRATRIACONTANE	19.918	4322160	46.027 ug/ml
16) N-HEXATRIACONTANE	20.656	3695277	45.760 ug/ml
17) N-OCTATRIACONTANE	21.442	3418238	45.815 ug/ml
18) N-TETRACONTANE	22.445	3353522	45.536 ug/ml

(f)=RT Delta > 1/2 Window

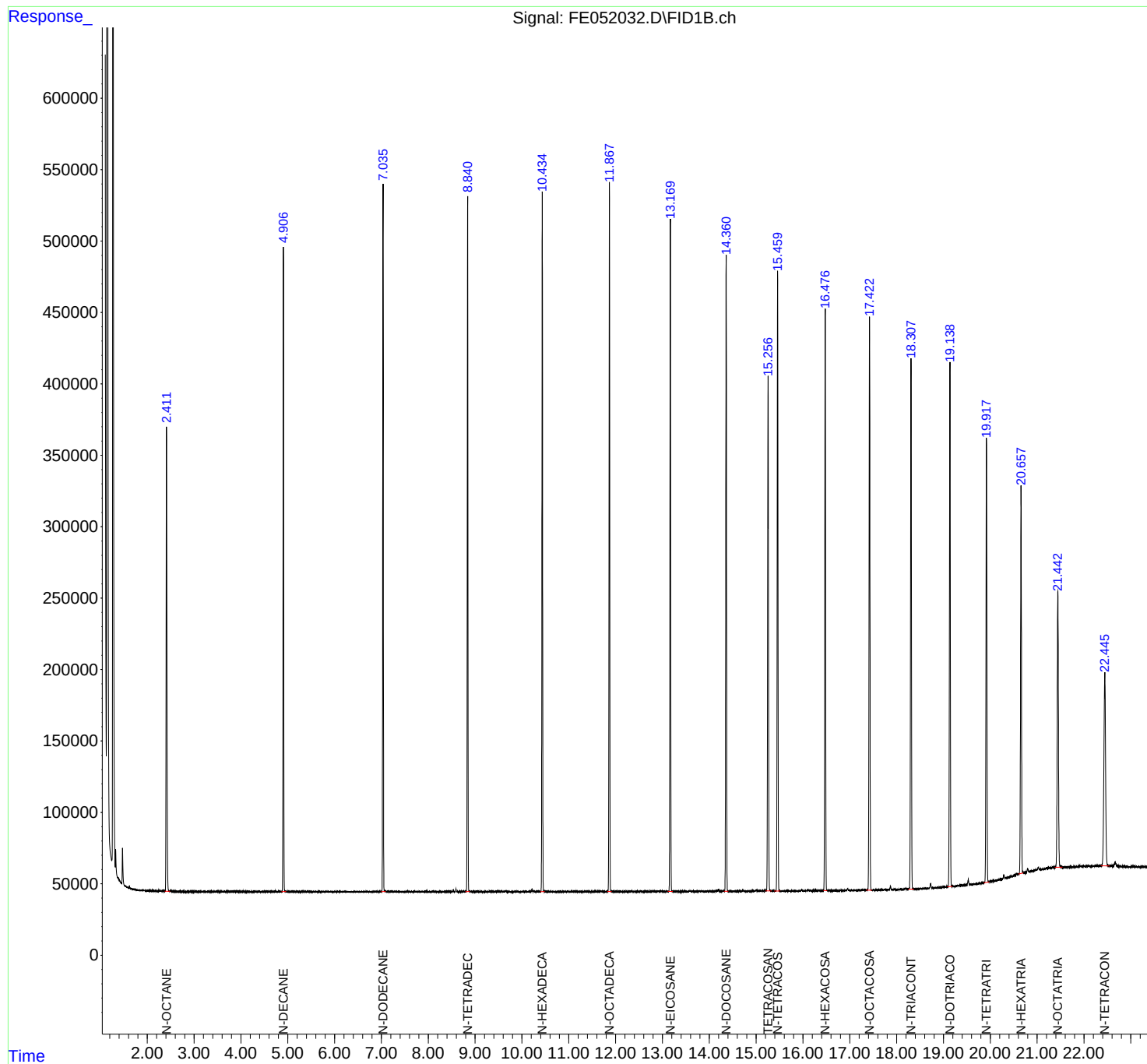
(m)=manual int.

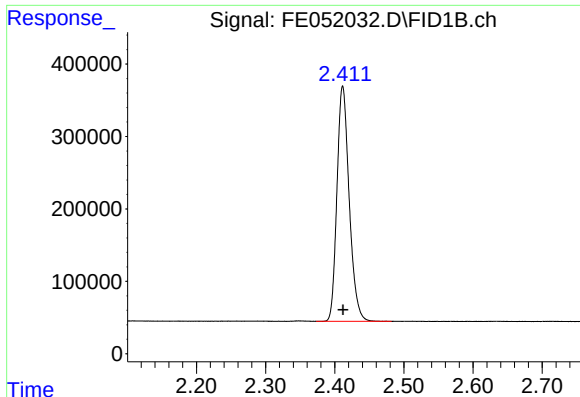
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052032.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 01:06
Operator : YP\AJ
Sample : FE012325ICV
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
FE012325ICV

Integration File: autoint1.e
Quant Time: Jan 24 03:09:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

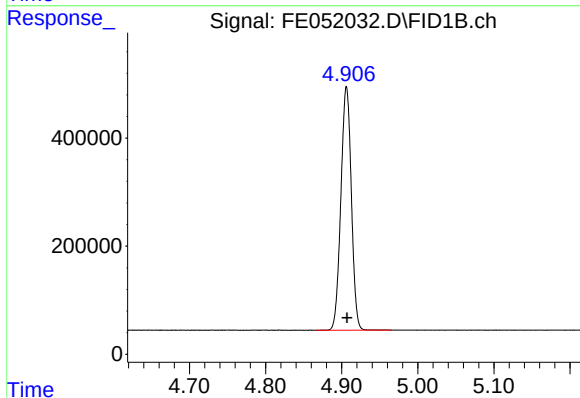




#1 N-OCTANE

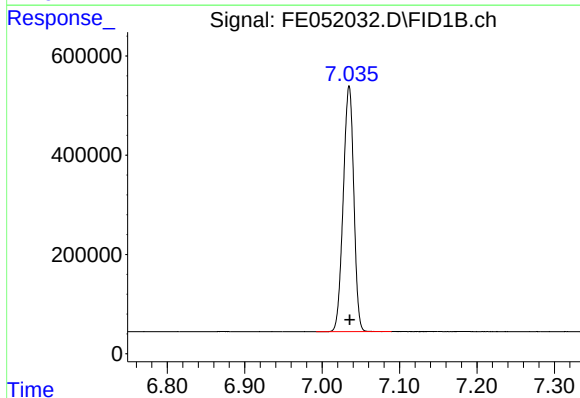
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 3991003
Conc: 46.80 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



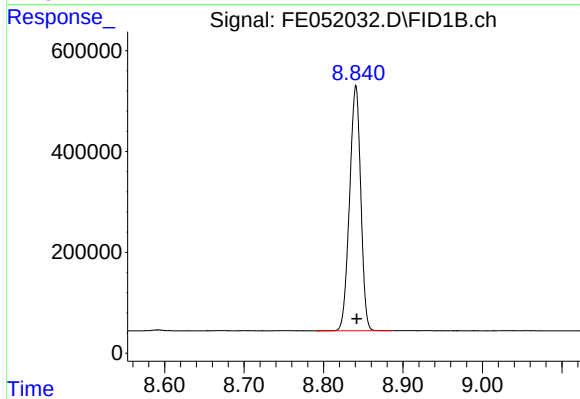
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: 0.000 min
Response: 4296957
Conc: 46.96 ug/ml



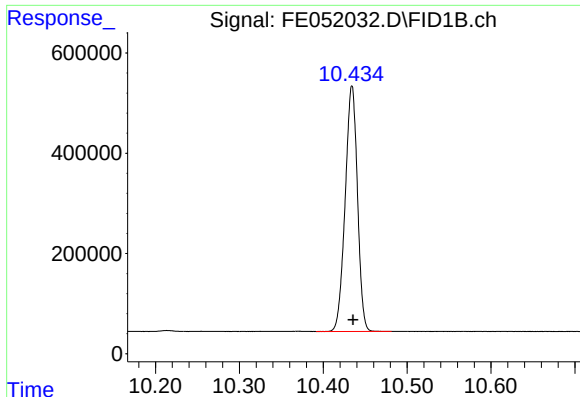
#3 N-DODECANE

R.T.: 7.035 min
Delta R.T.: 0.000 min
Response: 4687706
Conc: 46.92 ug/ml



#4 N-TETRADECANE

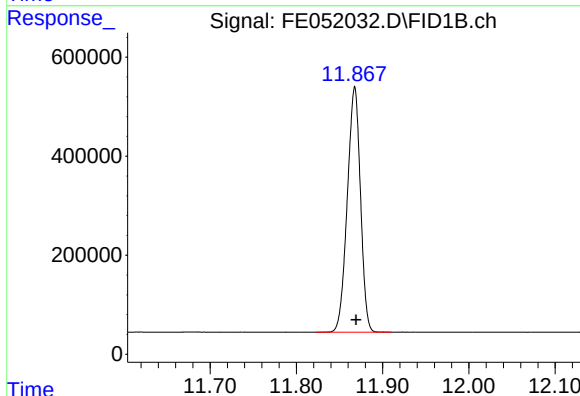
R.T.: 8.841 min
Delta R.T.: -0.001 min
Response: 4758083
Conc: 46.76 ug/ml



#5 N-HEXADECANE

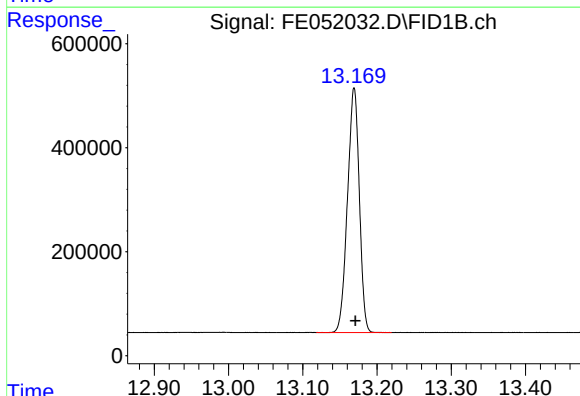
R.T.: 10.434 min
Delta R.T.: -0.001 min
Response: 4984676
Conc: 46.78 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



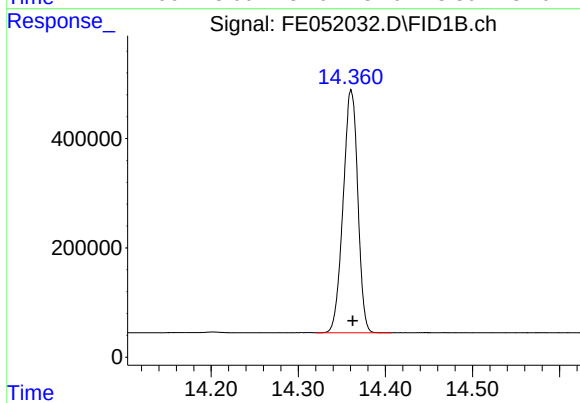
#6 N-OCTADECANE

R.T.: 11.868 min
Delta R.T.: -0.001 min
Response: 5255597
Conc: 46.87 ug/ml



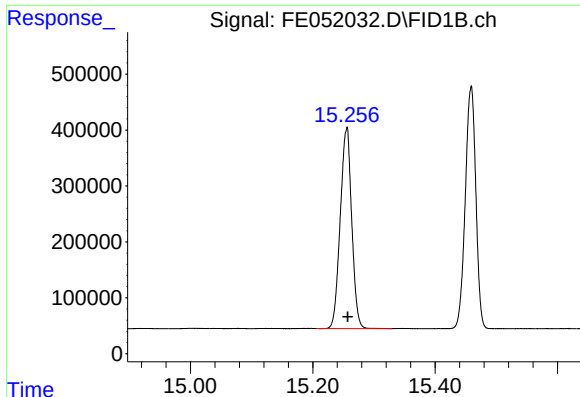
#7 N-EICOSANE

R.T.: 13.169 min
Delta R.T.: -0.002 min
Response: 5213798
Conc: 46.81 ug/ml



#8 N-DOCOSANE

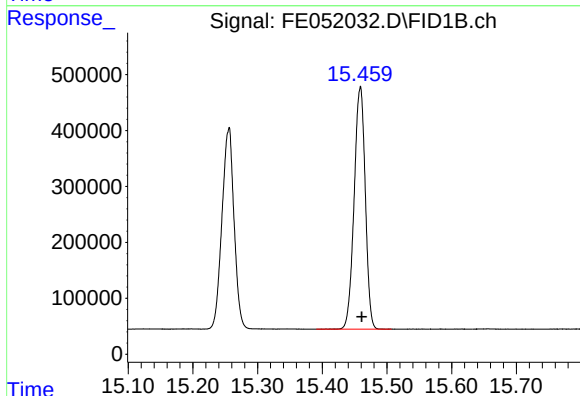
R.T.: 14.361 min
Delta R.T.: -0.002 min
Response: 5190938
Conc: 46.75 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

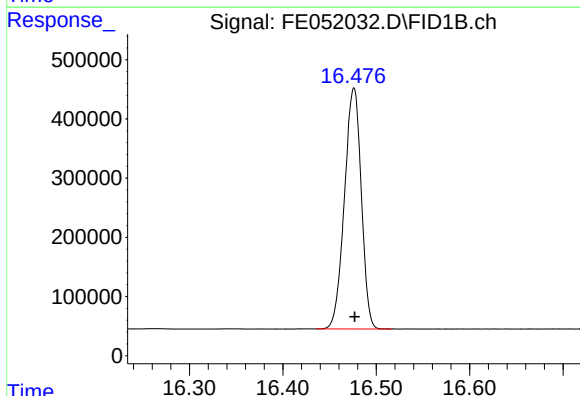
R.T.: 15.256 min
Delta R.T.: -0.001 min
Response: 4666211
Conc: 46.85 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



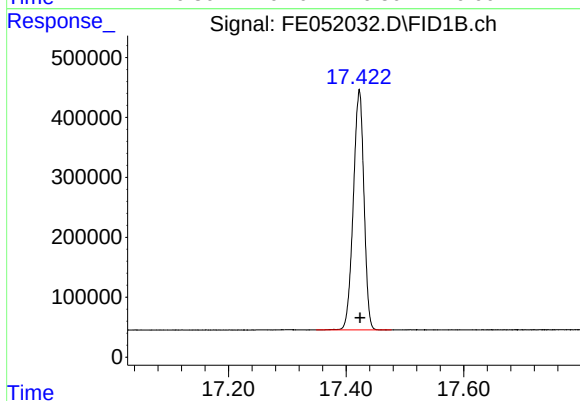
#10 N-TETRACOSANE

R.T.: 15.459 min
Delta R.T.: -0.002 min
Response: 5183378
Conc: 46.86 ug/ml



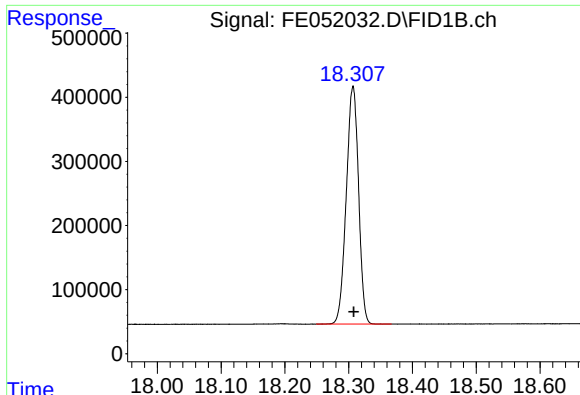
#11 N-HEXACOSANE

R.T.: 16.476 min
Delta R.T.: 0.000 min
Response: 5097911
Conc: 46.77 ug/ml



#12 N-OCTACOSANE

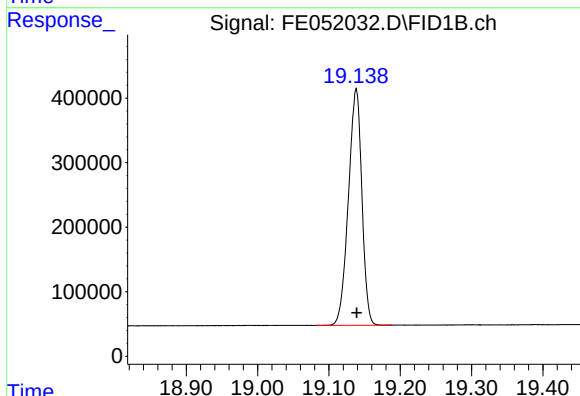
R.T.: 17.423 min
Delta R.T.: -0.001 min
Response: 5031236
Conc: 46.61 ug/ml



#13 N-TRIACONTANE

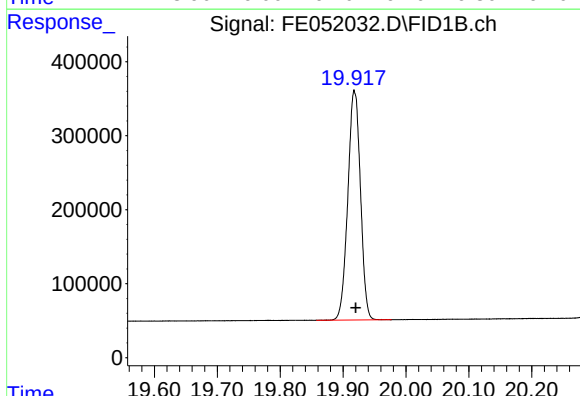
R.T.: 18.307 min
Delta R.T.: -0.001 min
Response: 4962414
Conc: 46.25 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



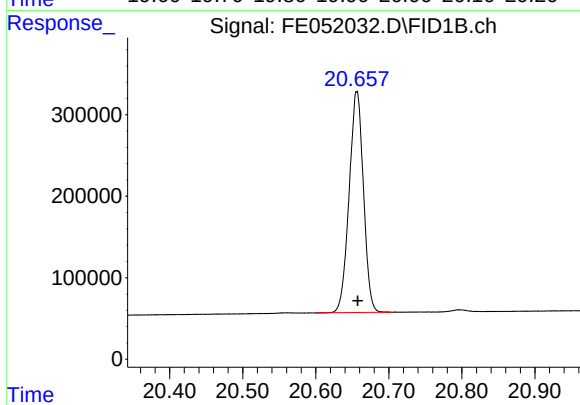
#14 N-DOTRIACONTANE

R.T.: 19.138 min
Delta R.T.: 0.000 min
Response: 4809025
Conc: 46.06 ug/ml



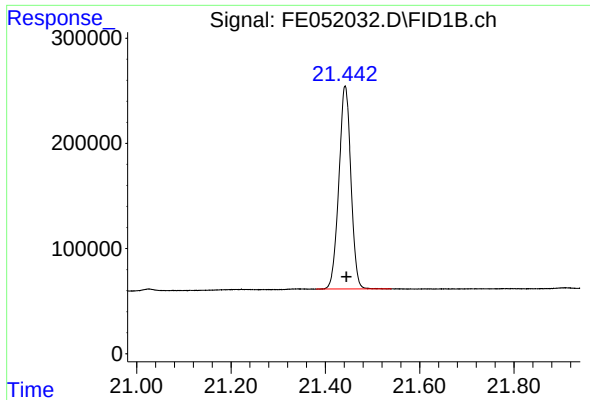
#15 N-TETRATRIACONTANE

R.T.: 19.918 min
Delta R.T.: -0.002 min
Response: 4322160
Conc: 46.03 ug/ml



#16 N-HEXATRIACONTANE

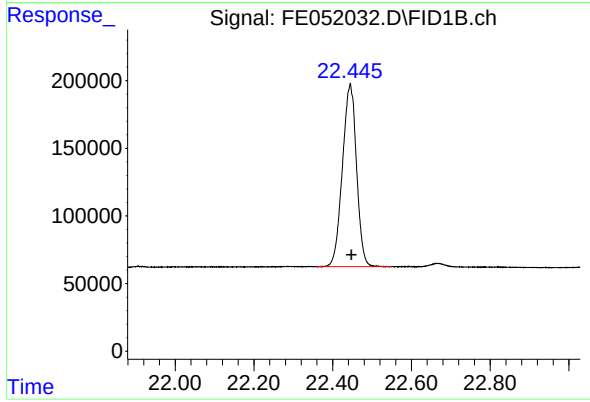
R.T.: 20.656 min
Delta R.T.: -0.001 min
Response: 3695277
Conc: 45.76 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.442 min
Delta R.T.: -0.003 min
Response: 3418238
Conc: 45.81 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



#18 N-TETRACONTANE

R.T.: 22.445 min
Delta R.T.: -0.003 min
Response: 3353522
Conc: 45.54 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052032.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 01:06
Sample : FE012325ICV
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.373	2.482	BB	325149	3991003	75.94%	4.813%
2	4.906	4.866	4.966	BB	450862	4296957	81.76%	5.182%
3	7.035	6.992	7.090	BB	495564	4687706	89.19%	5.653%
4	8.841	8.791	8.886	BB	486321	4758083	90.53%	5.738%
5	10.434	10.391	10.481	BB	490371	4984676	94.85%	6.012%
6	11.868	11.823	11.911	BB	496666	5255597	100.00%	6.338%
7	13.169	13.118	13.220	BB	470899	5213798	99.20%	6.288%
8	14.361	14.321	14.407	BB	444530	5190938	98.77%	6.260%
9	15.256	15.206	15.329	BB	358694	4666211	88.79%	5.627%
10	15.459	15.391	15.507	BB	433536	5183378	98.63%	6.251%
11	16.476	16.436	16.516	BB	407354	5097911	97.00%	6.148%
12	17.423	17.349	17.477	BB	400863	5031236	95.73%	6.068%
13	18.307	18.249	18.367	BB	371955	4962414	94.42%	5.985%
14	19.138	19.082	19.188	BB	366172	4809025	91.50%	5.800%
15	19.918	19.857	19.977	BB	309597	4322160	82.24%	5.213%
16	20.656	20.601	20.704	BB	270798	3695277	70.31%	4.457%
17	21.442	21.381	21.541	BB	193087	3418238	65.04%	4.122%
18	22.445	22.358	22.550	BB	135556	3353522	63.81%	4.044%
Sum of corrected areas:						82918129		

FE012325.M Fri Jan 24 03:20:42 2025

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: RUTW01
 ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

Calibration Sequence : FG011325		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
500	78963406	157927	FG015057.D
200	26178445	130892	FG015058.D
100	14314421	143144	FG015059.D
50	7127024	142540	FG015060.D
1000	126807043	126807	FG015061.D
AVG RF : 140262		% RSD : 8.691	AVG RT : 15.0514

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
 Data File : FG015057.D
 Signal(s) : FID1A.ch
 Acq On : 13 Jan 2025 09:45
 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: Jan 13 10:10:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Mon Jan 13 10:10:17 2025
 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...	15.054	7020283	50.000 ug/ml
Target Compounds			
1) N-OCTANE	2.014	6179916	50.000 ug/ml
2) N-DECANE	4.549	7270974	50.000 ug/ml
3) N-DODECANE	6.730	7616617	50.000 ug/ml
4) N-TETRADECANE	8.567	7839892	50.000 ug/ml
5) N-HEXADECANE	10.182	7974057	50.000 ug/ml
6) N-OCTADECANE	11.633	8177811	50.000 ug/ml
7) N-EICOSANE	12.948	8277142	50.000 ug/ml
8) N-DOCOSANE	14.150	8032457	50.000 ug/ml
10) N-TETRACOSANE	15.259	7977467	50.000 ug/ml
11) N-HEXACOSANE	16.285	7920800	50.000 ug/ml
12) N-OCTACOSANE	17.238	7876189	50.000 ug/ml
13) N-TRIACONTANE	18.129	8146929	50.000 ug/ml
14) N-DOTRIACONTANE	18.963	7971620	50.000 ug/ml
15) N-TETRATRIACONTANE	19.748	7395720	50.000 ug/ml
16) N-HEXATRIACONTANE	20.490	6634985	50.000 ug/ml
17) N-OCTATRIACONTANE	21.240	6083503	50.000 ug/ml
18) N-TETRACONTANE	22.181	5653958	50.000 ug/ml

(f)=RT Delta > 1/2 Window

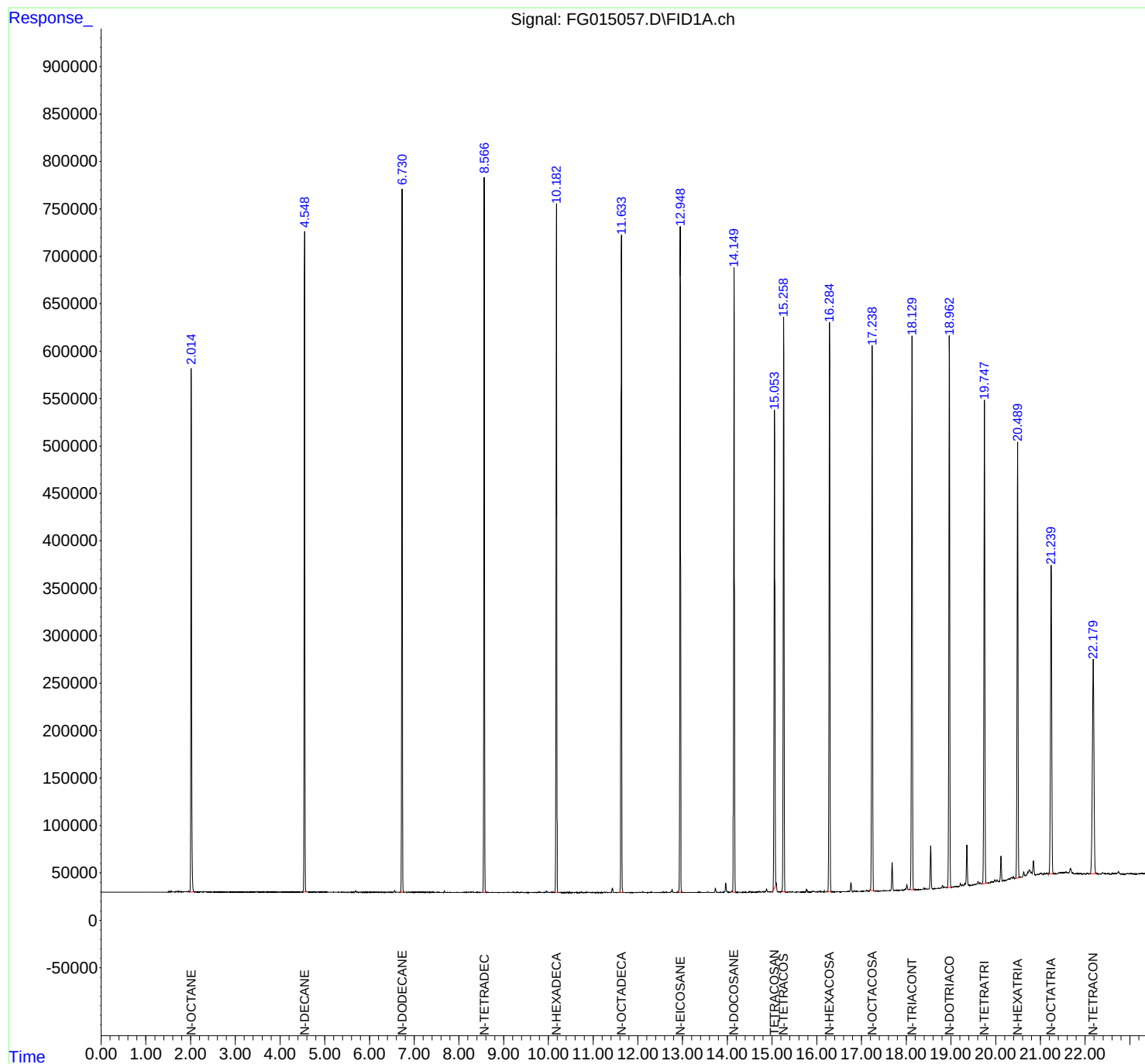
(m)=manual int.

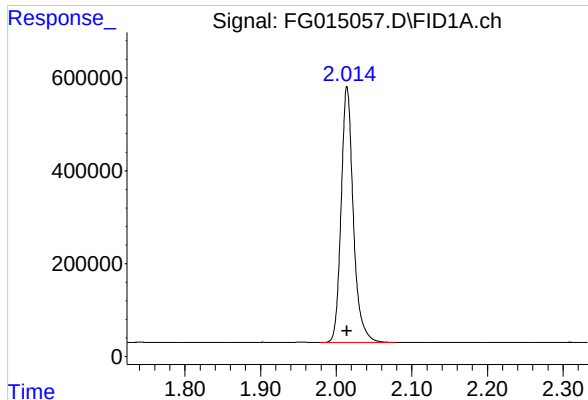
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015057.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 09:45
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 13 10:10:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Mon Jan 13 10:10:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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

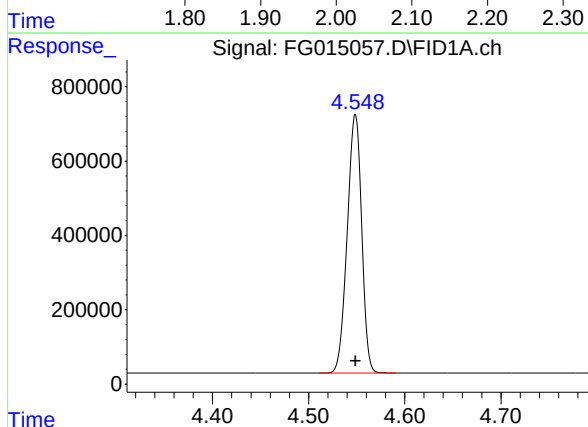




#1 N-OCTANE

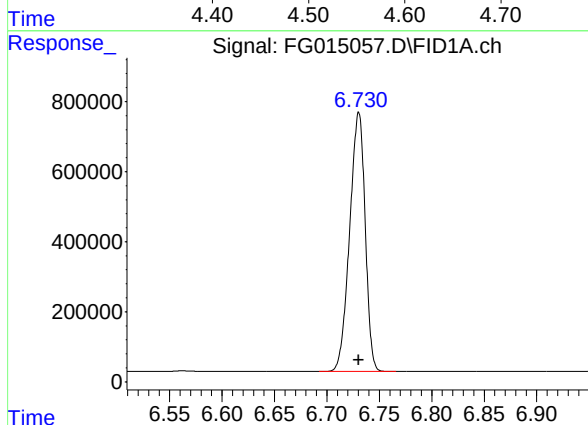
R.T.: 2.014 min
Delta R.T.: 0.000 min
Response: 6179916
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



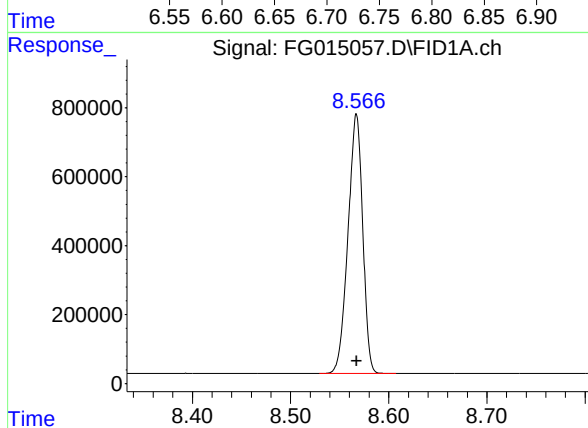
#2 N-DECANE

R.T.: 4.549 min
Delta R.T.: 0.000 min
Response: 7270974
Conc: 50.00 ug/ml



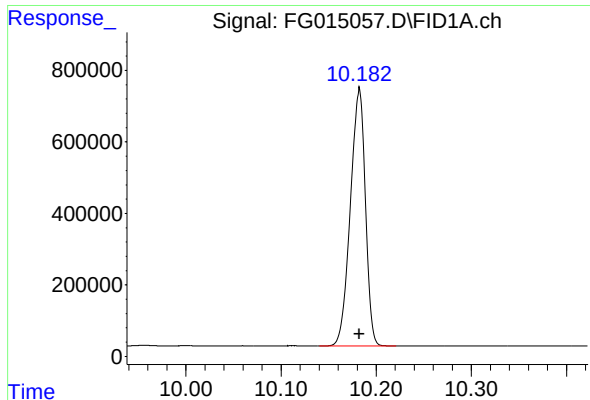
#3 N-DODECANE

R.T.: 6.730 min
Delta R.T.: 0.000 min
Response: 7616617
Conc: 50.00 ug/ml



#4 N-TETRADECANE

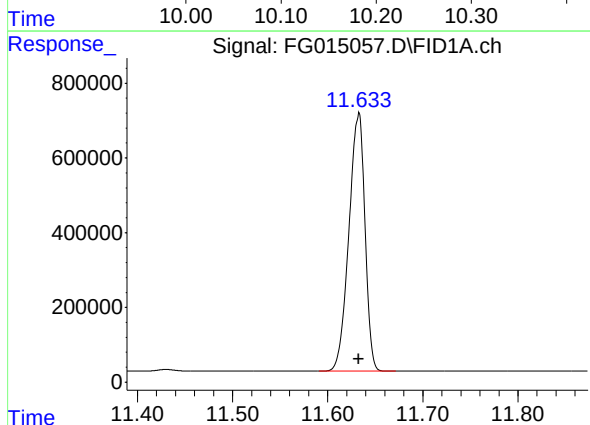
R.T.: 8.567 min
Delta R.T.: 0.000 min
Response: 7839892
Conc: 50.00 ug/ml



#5 N-HEXADECANE

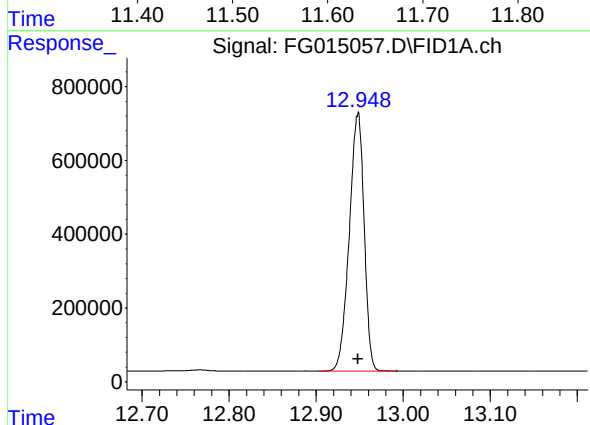
R.T.: 10.182 min
Delta R.T.: 0.000 min
Response: 7974057
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



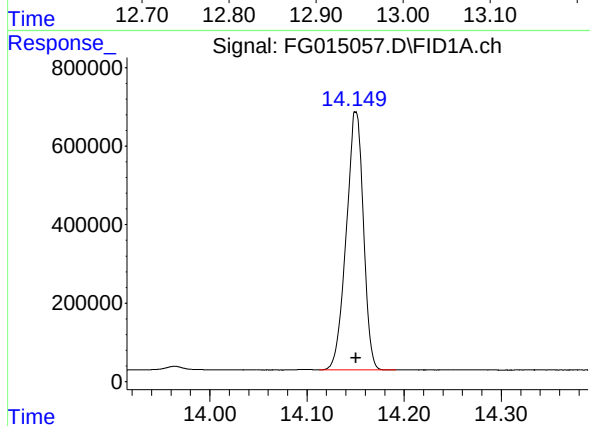
#6 N-OCTADECANE

R.T.: 11.633 min
Delta R.T.: 0.000 min
Response: 8177811
Conc: 50.00 ug/ml



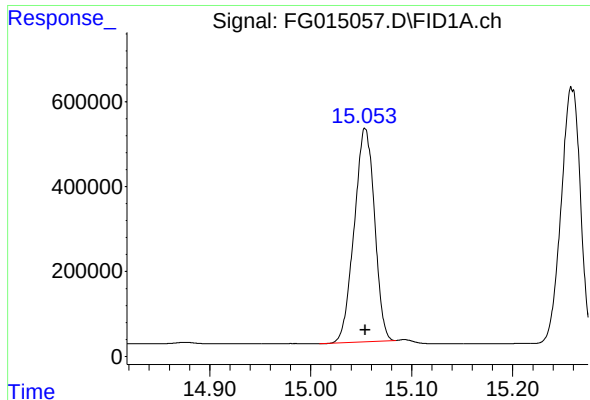
#7 N-EICOSANE

R.T.: 12.948 min
Delta R.T.: 0.000 min
Response: 8277142
Conc: 50.00 ug/ml



#8 N-DOCOSANE

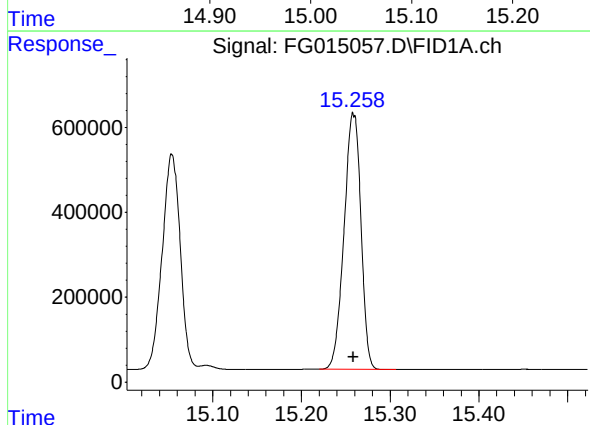
R.T.: 14.150 min
Delta R.T.: 0.000 min
Response: 8032457
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

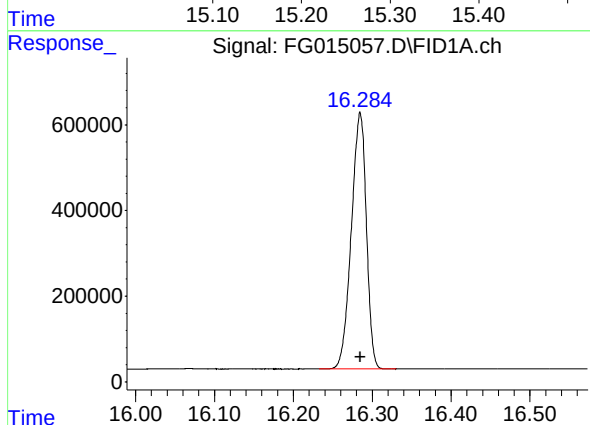
R.T.: 15.054 min
Delta R.T.: 0.000 min
Response: 7020283
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



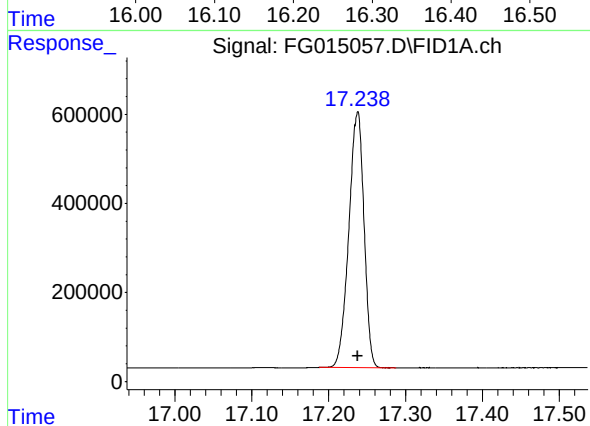
#10 N-TETRACOSANE

R.T.: 15.259 min
Delta R.T.: 0.000 min
Response: 7977467
Conc: 50.00 ug/ml



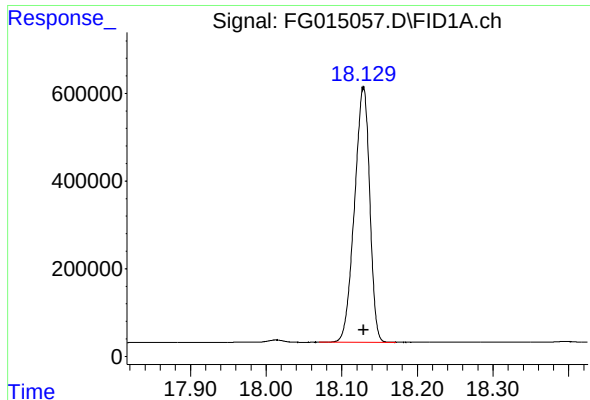
#11 N-HEXACOSANE

R.T.: 16.285 min
Delta R.T.: 0.000 min
Response: 7920800
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

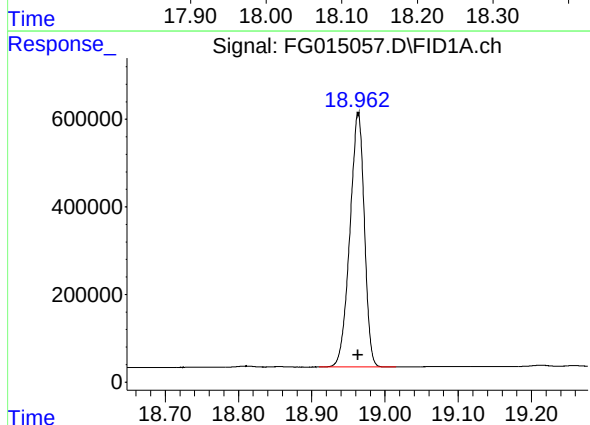
R.T.: 17.238 min
Delta R.T.: 0.000 min
Response: 7876189
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

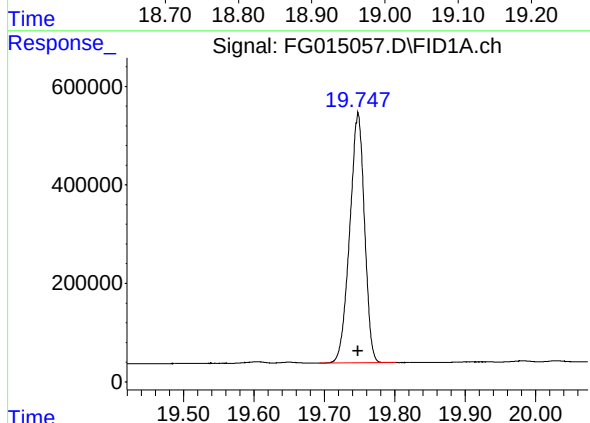
R.T.: 18.129 min
Delta R.T.: 0.000 min
Response: 8146929
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



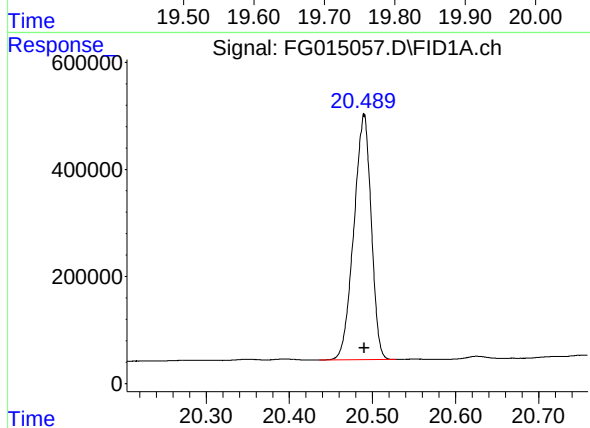
#14 N-DOTRIACONTANE

R.T.: 18.963 min
Delta R.T.: 0.000 min
Response: 7971620
Conc: 50.00 ug/ml



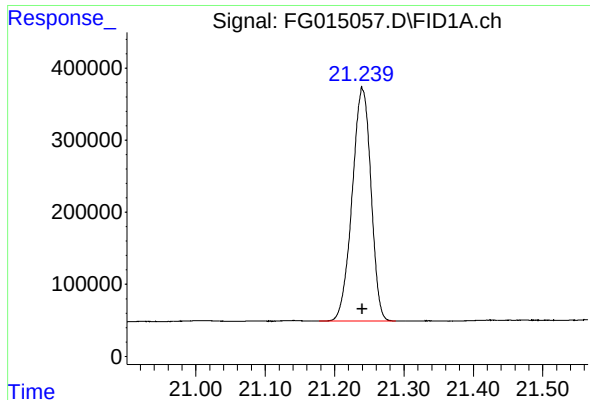
#15 N-TETRATRIACONTANE

R.T.: 19.748 min
Delta R.T.: 0.000 min
Response: 7395720
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

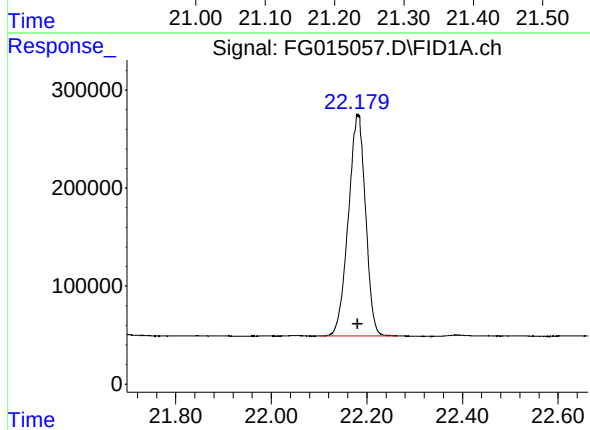
R.T.: 20.490 min
Delta R.T.: 0.000 min
Response: 6634985
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.240 min
Delta R.T.: 0.000 min
Response: 6083503
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.181 min
Delta R.T.: 0.000 min
Response: 5653958
Conc: 50.00 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015057.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 09:45
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.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	2.079	BB	551414	6179916	74.66%	4.610%
2	4.549	4.511	4.591	BB	696147	7270974	87.84%	5.424%
3	6.730	6.692	6.766	BB	739657	7616617	92.02%	5.682%
4	8.567	8.529	8.607	BB	750879	7839892	94.72%	5.848%
5	10.182	10.140	10.221	BB	724423	7974057	96.34%	5.949%
6	11.633	11.591	11.672	BB	690757	8177811	98.80%	6.101%
7	12.948	12.903	12.992	BB	698654	8277142	100.00%	6.175%
8	14.150	14.113	14.192	BB	656408	8032457	97.04%	5.992%
9	15.054	15.008	15.084	BV	501666	7020283	84.82%	5.237%
10	15.259	15.220	15.307	BB	601503	7977467	96.38%	5.951%
11	16.285	16.233	16.330	BB	597903	7920800	95.69%	5.909%
12	17.238	17.188	17.288	BB	574153	7876189	95.16%	5.876%
13	18.129	18.070	18.172	BB	577515	8146929	98.43%	6.078%
14	18.963	18.910	19.015	BB	575018	7971620	96.31%	5.947%
15	19.748	19.693	19.802	BB	508301	7395720	89.35%	5.517%
16	20.490	20.436	20.528	BB	454742	6634985	80.16%	4.950%
17	21.240	21.178	21.288	BB	321864	6083503	73.50%	4.538%
18	22.181	22.100	22.261	BB	226107	5653958	68.31%	4.218%
Sum of corrected areas:						134050320		

FG011325.M Mon Jan 13 12:12:21 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
 Data File : FG015058.D
 Signal(s) : FID1A.ch
 Acq On : 13 Jan 2025 10:14
 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: Jan 13 10:27:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Mon Jan 13 10:27:15 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.050	2426477	18.992 ug/ml
Target Compounds			
1) N-OCTANE	2.011	2347743	19.557 ug/ml
2) N-DECANE	4.546	2412466	18.647 ug/ml
3) N-DODECANE	6.726	2548018	18.721 ug/ml
4) N-TETRADECANE	8.563	2539205	18.520 ug/ml
5) N-HEXADECANE	10.178	2630204	18.675 ug/ml
6) N-OCTADECANE	11.627	2743181	18.799 ug/ml
7) N-EICOSANE	12.943	2706469	18.626 ug/ml
8) N-DOCOSANE	14.146	2682390	18.773 ug/ml
10) N-TETRACOSANE	15.255	2673287	18.803 ug/ml
11) N-HEXACOSANE	16.279	2631421	18.757 ug/ml
12) N-OCTACOSANE	17.233	2611804	18.837 ug/ml
13) N-TRIACONTANE	18.124	2626561	18.792 ug/ml
14) N-DOTRIACONTANE	18.959	2540319	18.739 ug/ml
15) N-TETRATRIACONTANE	19.744	2210732	18.063 ug/ml
16) N-HEXATRIACONTANE	20.486	1807283	17.100 ug/ml
17) N-OCTATRIACONTANE	21.237	1610414	16.801 ug/ml
18) N-TETRACONTANE	22.177	1490070	16.833 ug/ml

(f)=RT Delta > 1/2 Window

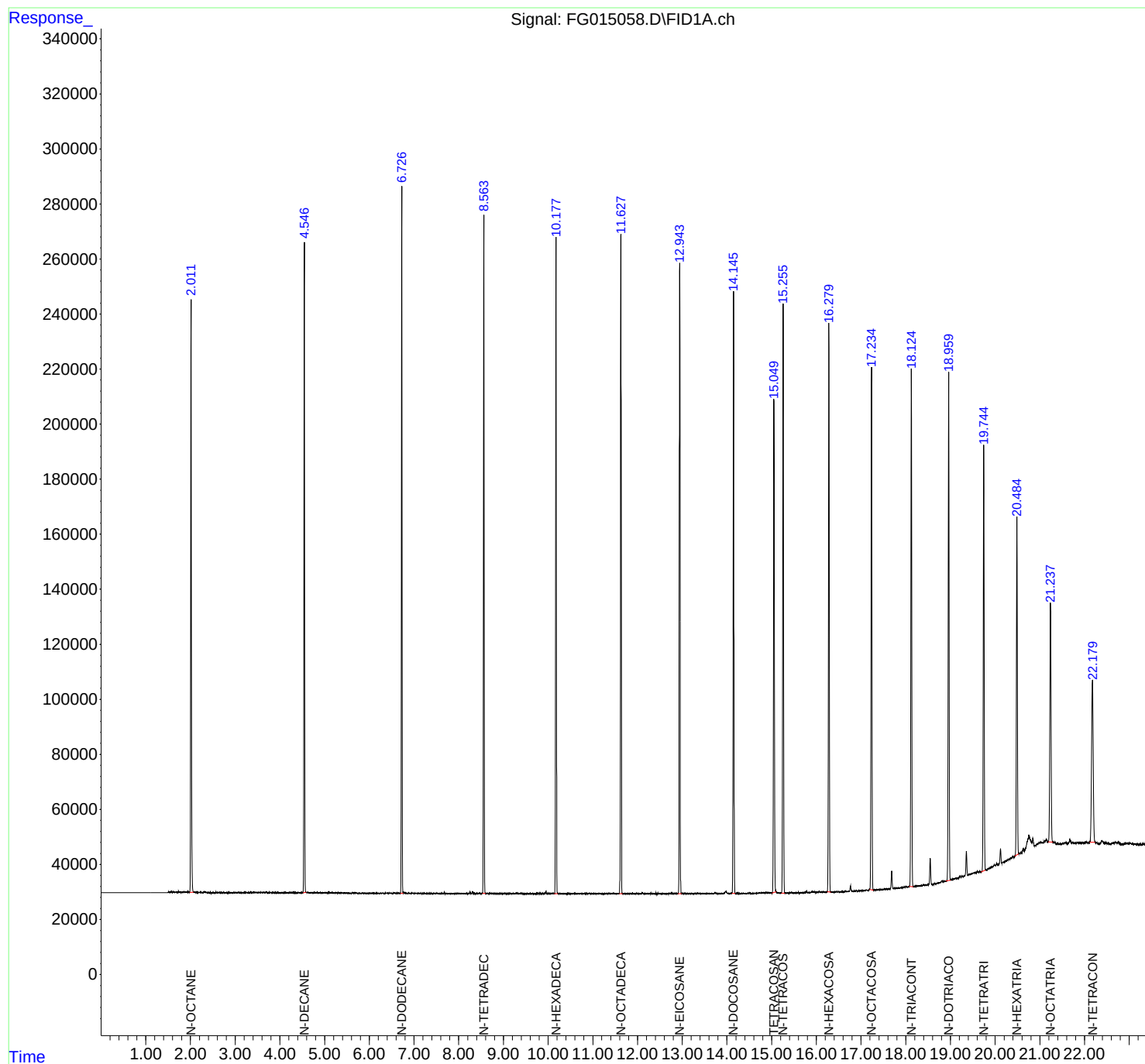
(m)=manual int.

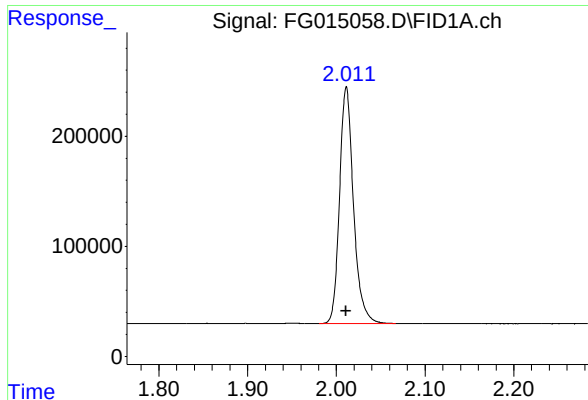
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015058.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 10:14
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 13 10:27:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
Qlast Update : Mon Jan 13 10:27:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

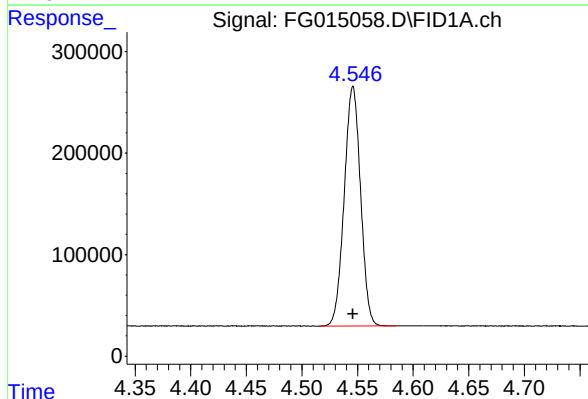




#1 N-OCTANE

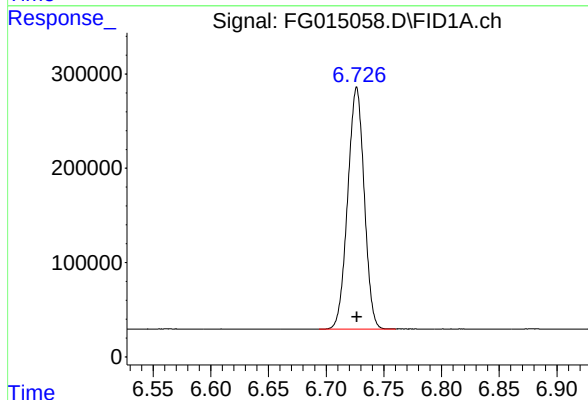
R.T.: 2.011 min
Delta R.T.: 0.000 min
Response: 2347743
Conc: 19.56 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



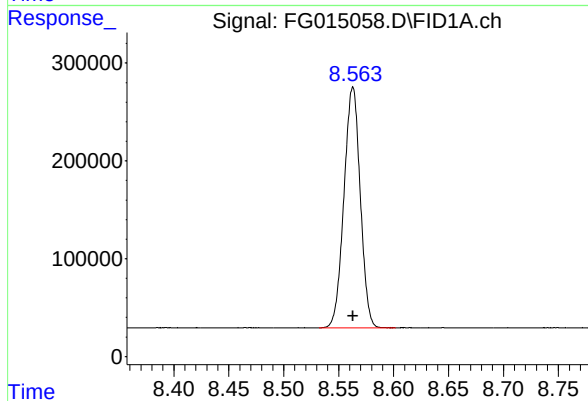
#2 N-DECANE

R.T.: 4.546 min
Delta R.T.: 0.000 min
Response: 2412466
Conc: 18.65 ug/ml



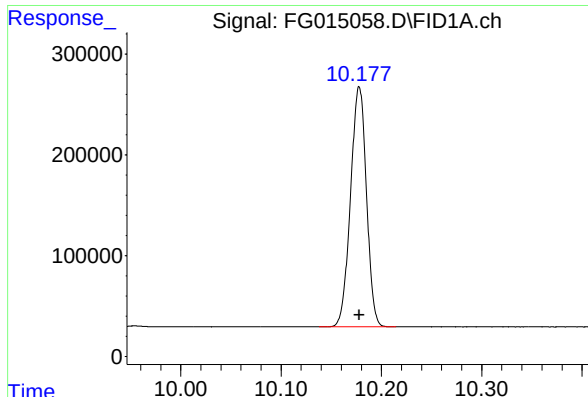
#3 N-DODECANE

R.T.: 6.726 min
Delta R.T.: 0.000 min
Response: 2548018
Conc: 18.72 ug/ml



#4 N-TETRADECANE

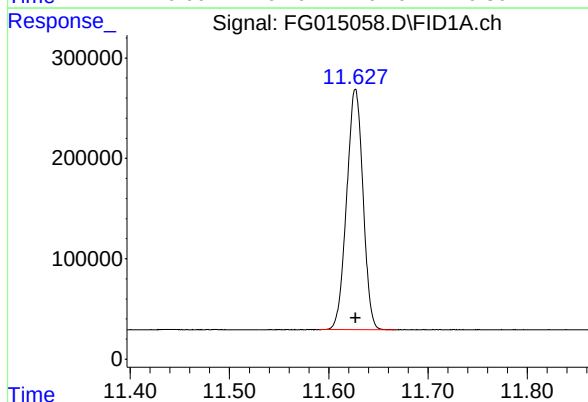
R.T.: 8.563 min
Delta R.T.: 0.000 min
Response: 2539205
Conc: 18.52 ug/ml



#5 N-HEXADECANE

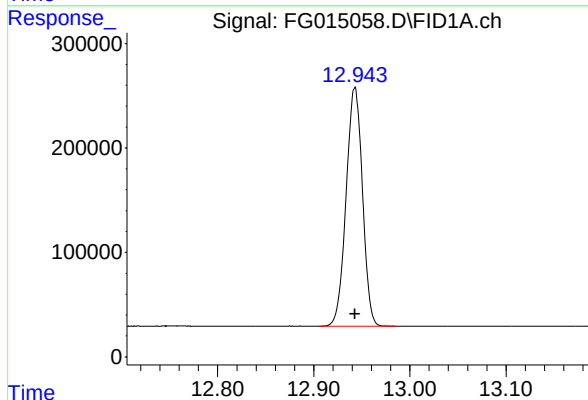
R.T.: 10.178 min
Delta R.T.: 0.000 min
Response: 2630204
Conc: 18.68 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



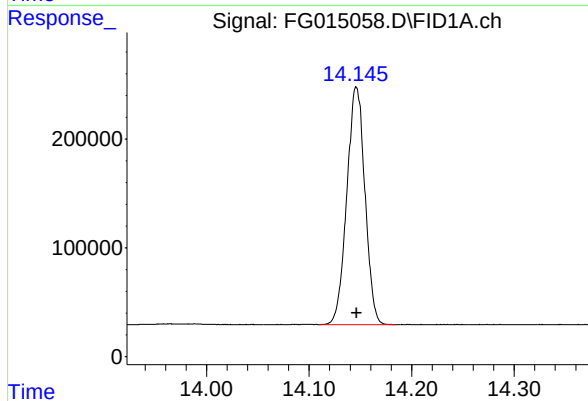
#6 N-OCTADECANE

R.T.: 11.627 min
Delta R.T.: 0.000 min
Response: 2743181
Conc: 18.80 ug/ml



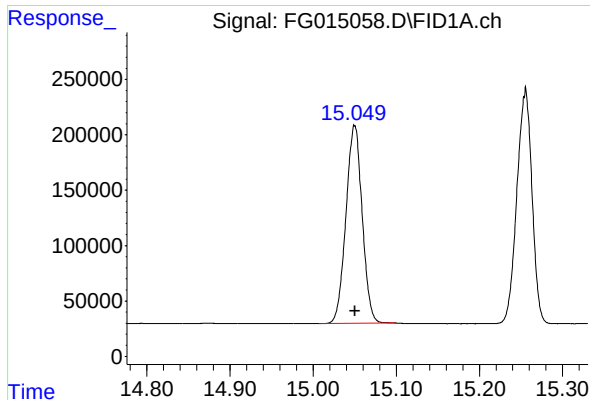
#7 N-EICOSANE

R.T.: 12.943 min
Delta R.T.: 0.000 min
Response: 2706469
Conc: 18.63 ug/ml



#8 N-DOCOSANE

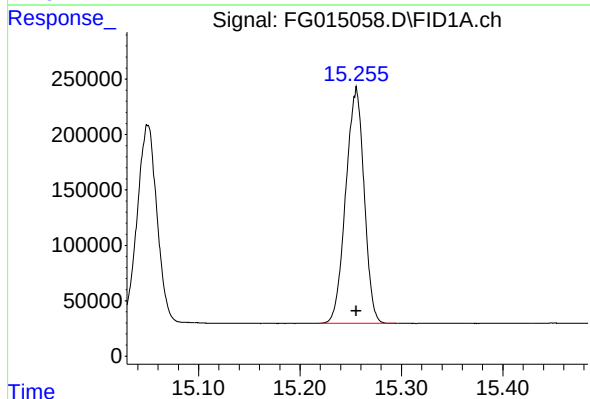
R.T.: 14.146 min
Delta R.T.: 0.000 min
Response: 2682390
Conc: 18.77 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

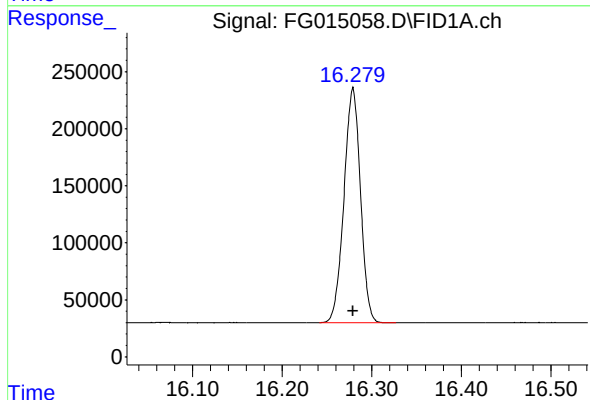
R.T.: 15.050 min
Delta R.T.: 0.000 min
Response: 2426477
Conc: 18.99 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



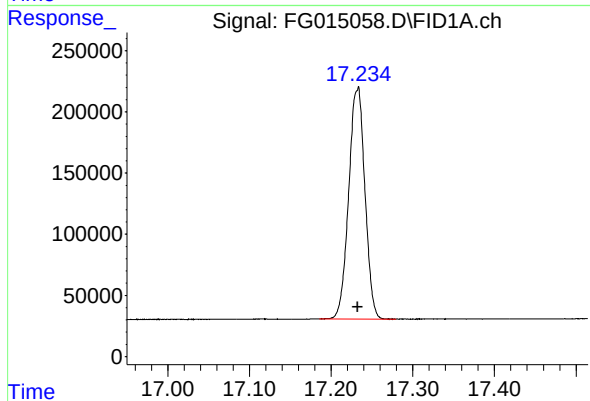
#10 N-TETRACOSANE

R.T.: 15.255 min
Delta R.T.: 0.000 min
Response: 2673287
Conc: 18.80 ug/ml



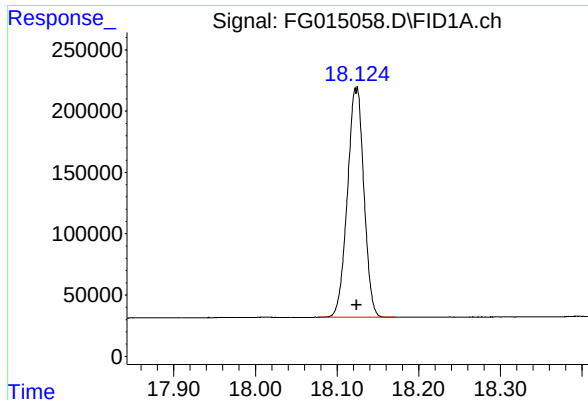
#11 N-HEXACOSANE

R.T.: 16.279 min
Delta R.T.: 0.000 min
Response: 2631421
Conc: 18.76 ug/ml



#12 N-OCTACOSANE

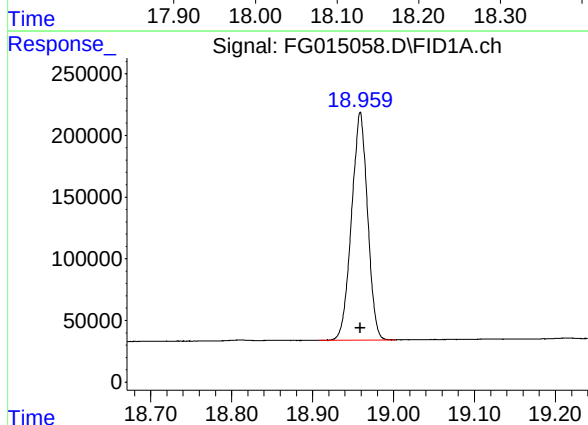
R.T.: 17.233 min
Delta R.T.: 0.000 min
Response: 2611804
Conc: 18.84 ug/ml



#13 N-TRIACONTANE

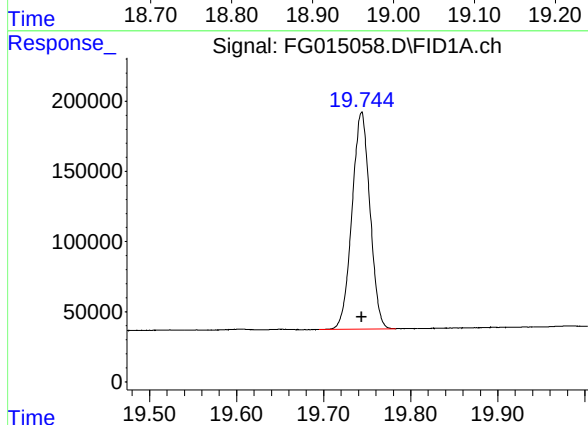
R.T.: 18.124 min
Delta R.T.: 0.000 min
Response: 2626561
Conc: 18.79 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



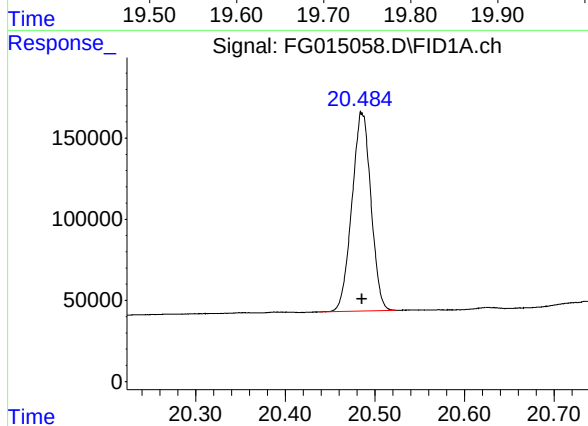
#14 N-DOTRIACONTANE

R.T.: 18.959 min
Delta R.T.: 0.000 min
Response: 2540319
Conc: 18.74 ug/ml



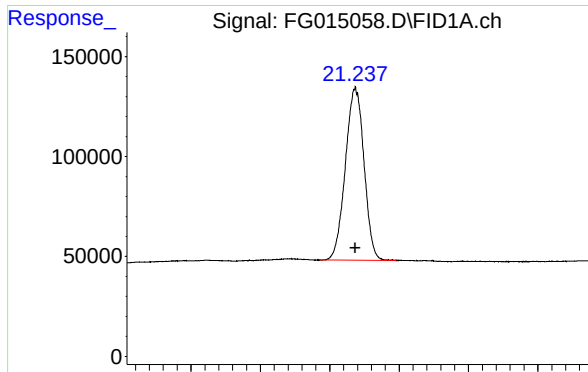
#15 N-TETRATRIACONTANE

R.T.: 19.744 min
Delta R.T.: 0.000 min
Response: 2210732
Conc: 18.06 ug/ml



#16 N-HEXATRIACONTANE

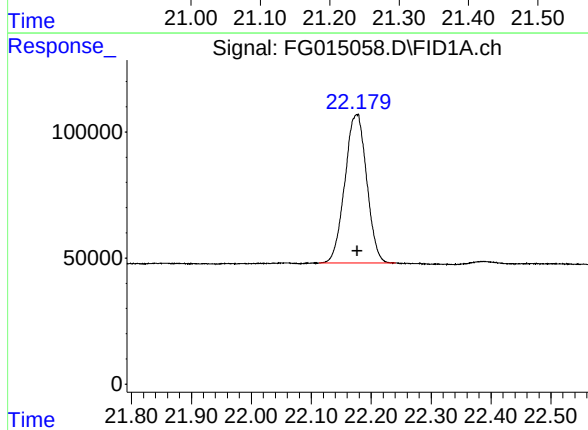
R.T.: 20.486 min
Delta R.T.: 0.000 min
Response: 1807283
Conc: 17.10 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 1610414
Conc: 16.80 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.177 min
Delta R.T.: 0.000 min
Response: 1490070
Conc: 16.83 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015058.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 10:14
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.011	1.980	2.067	BB	215225	2347743	85.58%	5.430%
2	4.546	4.515	4.585	BB	236430	2412466	87.94%	5.579%
3	6.726	6.694	6.760	BB	256457	2548018	92.89%	5.893%
4	8.563	8.532	8.602	BB	246160	2539205	92.56%	5.873%
5	10.178	10.138	10.215	BB	238478	2630204	95.88%	6.083%
6	11.627	11.590	11.668	BB	239392	2743181	100.00%	6.344%
7	12.943	12.905	12.985	BB	228456	2706469	98.66%	6.259%
8	14.146	14.110	14.185	BB	218194	2682390	97.78%	6.204%
9	15.050	15.007	15.100	BB	178429	2426477	88.45%	5.612%
10	15.255	15.219	15.295	BB	212834	2673287	97.45%	6.183%
11	16.279	16.241	16.327	BB	206089	2631421	95.93%	6.086%
12	17.233	17.185	17.280	BB	187624	2611804	95.21%	6.041%
13	18.124	18.078	18.172	BB	183768	2626561	95.75%	6.075%
14	18.959	18.908	19.003	BB	184506	2540319	92.60%	5.875%
15	19.744	19.695	19.783	BB	154500	2210732	80.59%	5.113%
16	20.486	20.438	20.524	BB	122070	1807283	65.88%	4.180%
17	21.237	21.185	21.295	BB	85965	1610414	58.71%	3.725%
18	22.177	22.113	22.241	BB	58558	1490070	54.32%	3.446%
Sum of corrected areas:							43238043	

FG011325.M Mon Jan 13 12:12:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
 Data File : FG015059.D
 Signal(s) : FID1A.ch
 Acq On : 13 Jan 2025 10:42
 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: Jan 13 10:53:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Mon Jan 13 10:52:39 2025
 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...	15.049	1319274	10.242 ug/ml
Target Compounds			
1) N-OCTANE	2.012	1276191	10.466 ug/ml
2) N-DECANE	4.545	1314669	10.121 ug/ml
3) N-DODECANE	6.726	1389408	10.155 ug/ml
4) N-TETRADECANE	8.563	1386903	10.086 ug/ml
5) N-HEXADECANE	10.177	1437974	10.157 ug/ml
6) N-OCTADECANE	11.627	1501248	10.215 ug/ml
7) N-EICOSANE	12.942	1478786	10.132 ug/ml
8) N-DOCOSANE	14.146	1466497	10.196 ug/ml
10) N-TETRACOSANE	15.254	1461022	10.206 ug/ml
11) N-HEXACOSANE	16.278	1440458	10.200 ug/ml
12) N-OCTACOSANE	17.231	1437456	10.273 ug/ml
13) N-TRIACONTANE	18.121	1459210	10.327 ug/ml
14) N-DOTRIACONTANE	18.957	1433212	10.423 ug/ml
15) N-TETRATRIACONTANE	19.741	1288019	10.388 ug/ml
16) N-HEXATRIACONTANE	20.484	1102769	10.322 ug/ml
17) N-OCTATRIACONTANE	21.236	1010014	10.398 ug/ml
18) N-TETRACONTANE	22.175	952991	10.563 ug/ml

(f)=RT Delta > 1/2 Window

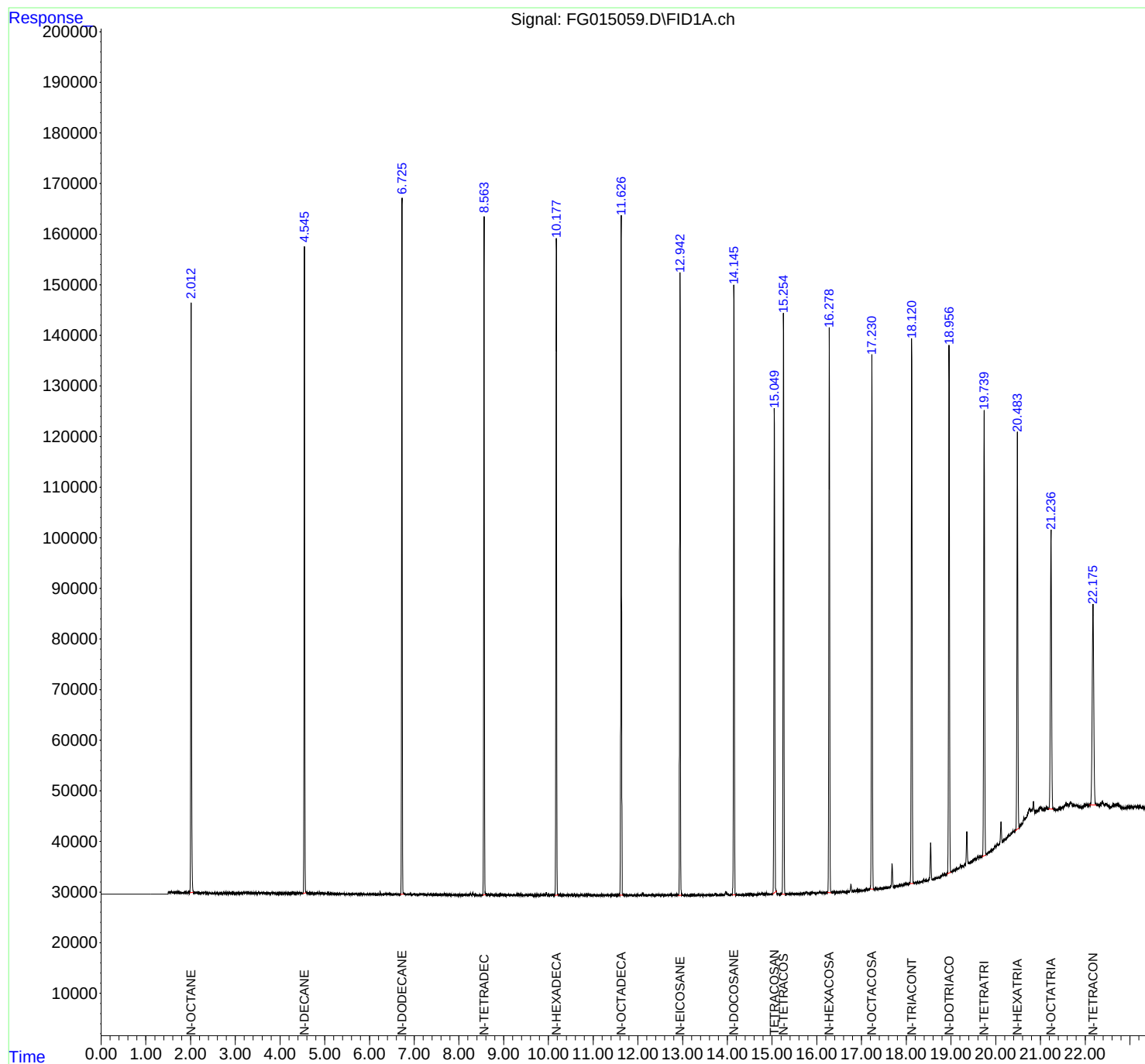
(m)=manual int.

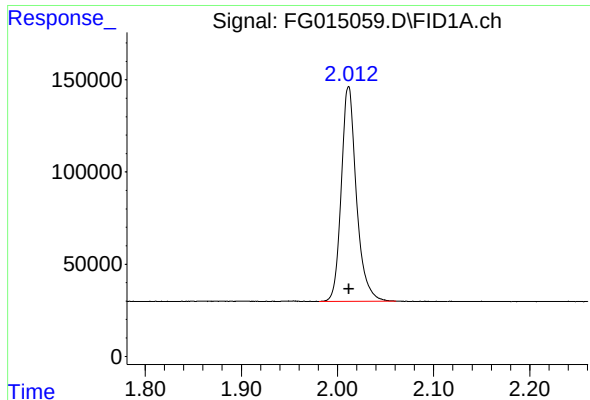
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015059.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 10:42
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 13 10:53:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Mon Jan 13 10:52:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

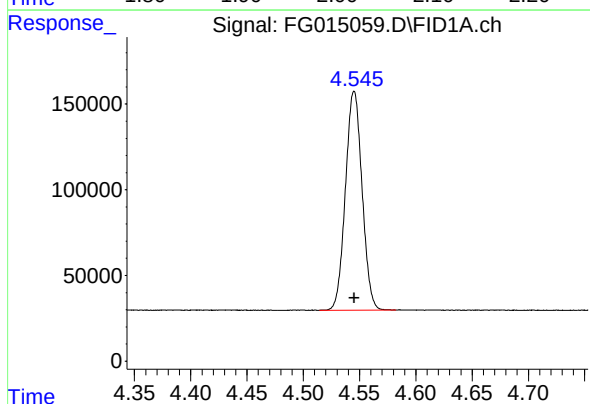




#1 N-OCTANE

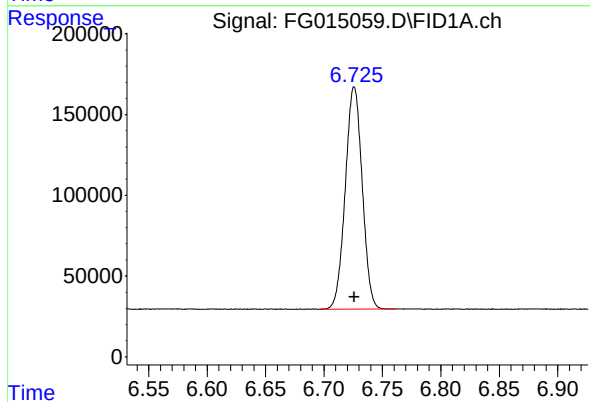
R.T.: 2.012 min
Delta R.T.: 0.000 min
Response: 1276191
Conc: 10.47 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



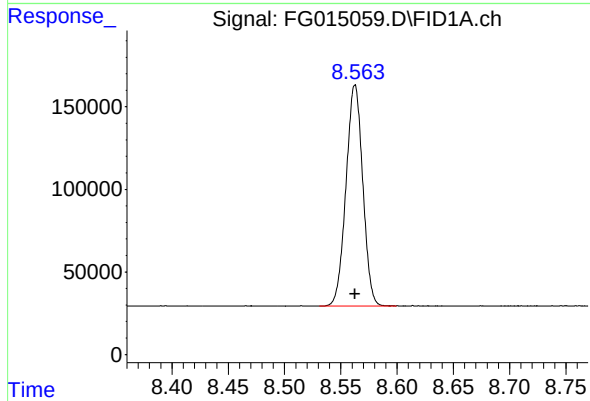
#2 N-DECANE

R.T.: 4.545 min
Delta R.T.: 0.000 min
Response: 1314669
Conc: 10.12 ug/ml



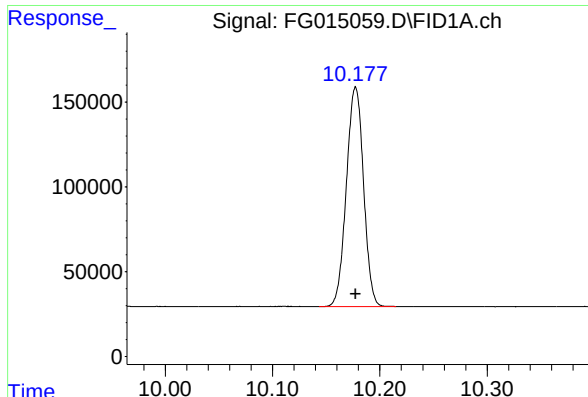
#3 N-DODECANE

R.T.: 6.726 min
Delta R.T.: 0.000 min
Response: 1389408
Conc: 10.16 ug/ml



#4 N-TETRADECANE

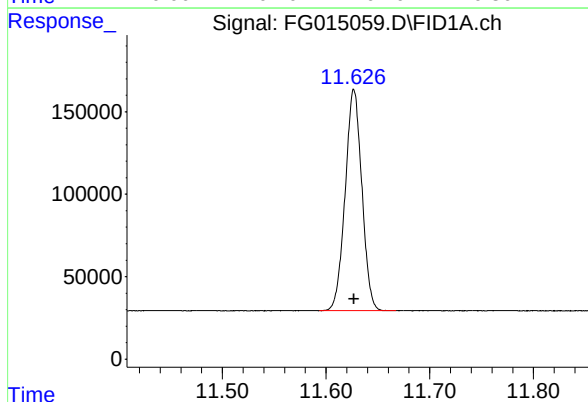
R.T.: 8.563 min
Delta R.T.: 0.000 min
Response: 1386903
Conc: 10.09 ug/ml



#5 N-HEXADECANE

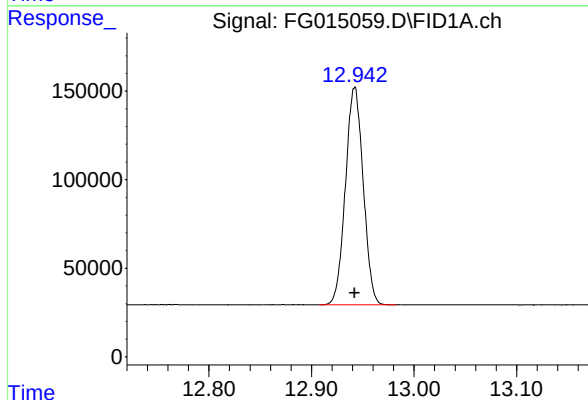
R.T.: 10.177 min
Delta R.T.: 0.000 min
Response: 1437974
Conc: 10.16 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



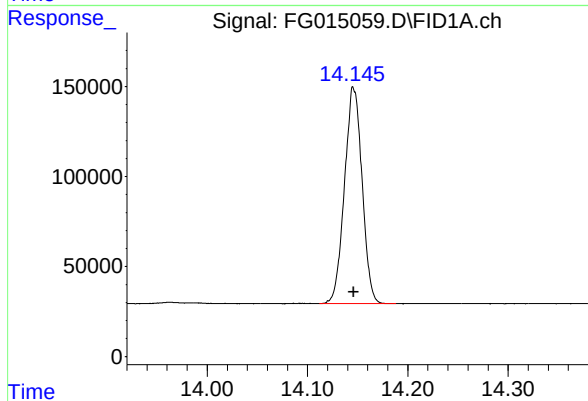
#6 N-OCTADECANE

R.T.: 11.627 min
Delta R.T.: 0.000 min
Response: 1501248
Conc: 10.21 ug/ml



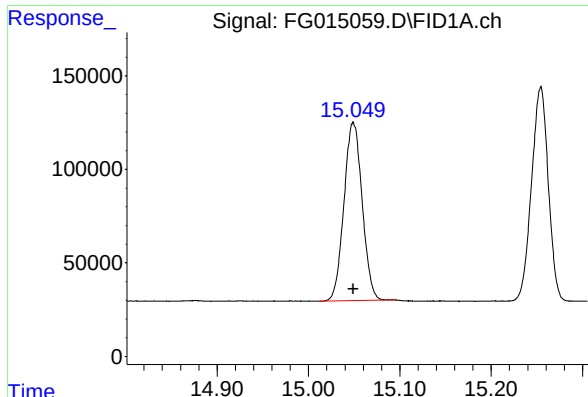
#7 N-EICOSANE

R.T.: 12.942 min
Delta R.T.: 0.000 min
Response: 1478786
Conc: 10.13 ug/ml



#8 N-DOCOSANE

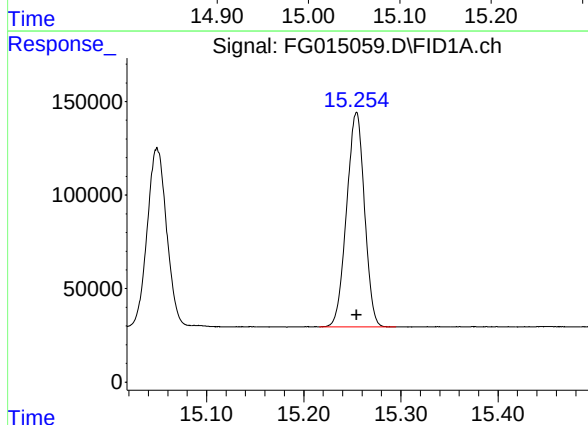
R.T.: 14.146 min
Delta R.T.: 0.000 min
Response: 1466497
Conc: 10.20 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

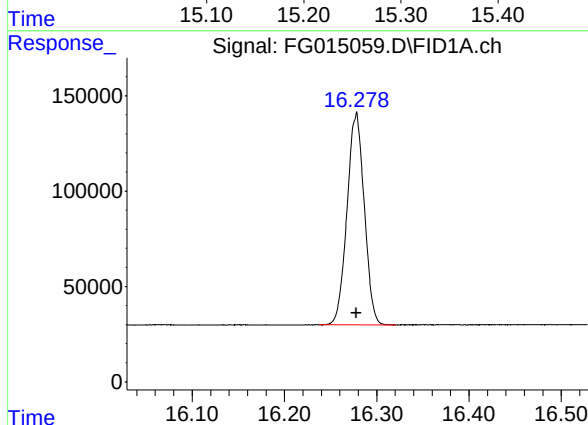
R.T.: 15.049 min
Delta R.T.: 0.000 min
Response: 1319274
Conc: 10.24 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



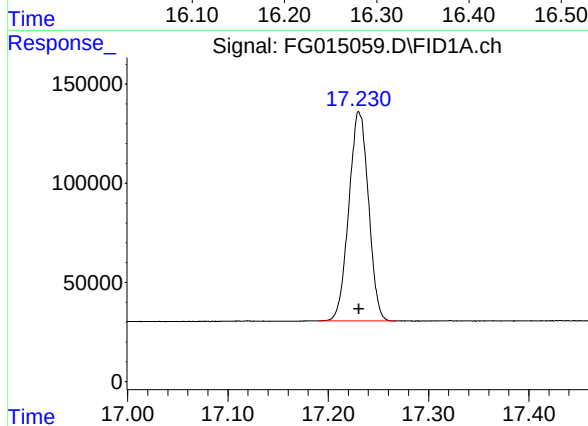
#10 N-TETRACOSANE

R.T.: 15.254 min
Delta R.T.: 0.000 min
Response: 1461022
Conc: 10.21 ug/ml



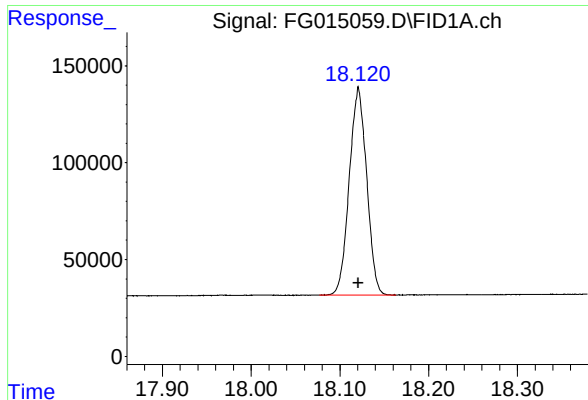
#11 N-HEXACOSANE

R.T.: 16.278 min
Delta R.T.: 0.000 min
Response: 1440458
Conc: 10.20 ug/ml



#12 N-OCTACOSANE

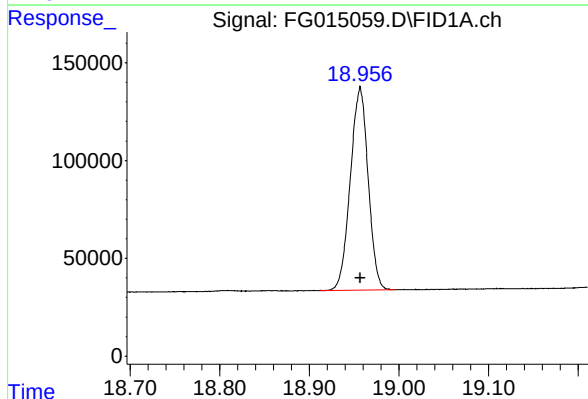
R.T.: 17.231 min
Delta R.T.: 0.000 min
Response: 1437456
Conc: 10.27 ug/ml



#13 N-TRIACONTANE

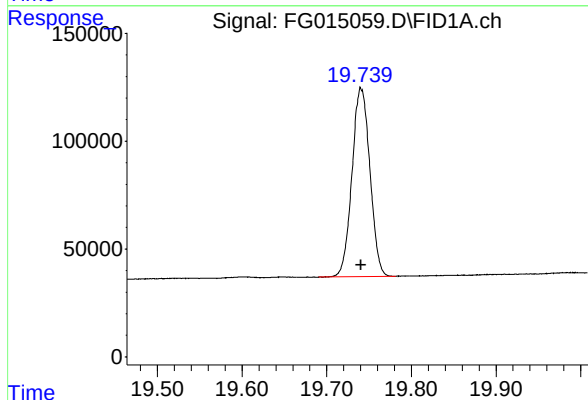
R.T.: 18.121 min
Delta R.T.: 0.000 min
Response: 1459210
Conc: 10.33 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



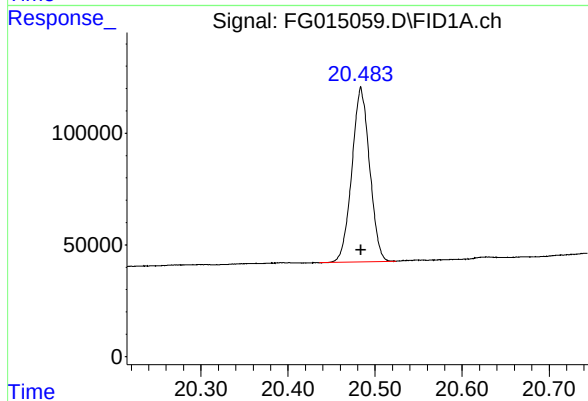
#14 N-DOTRIACONTANE

R.T.: 18.957 min
Delta R.T.: 0.000 min
Response: 1433212
Conc: 10.42 ug/ml



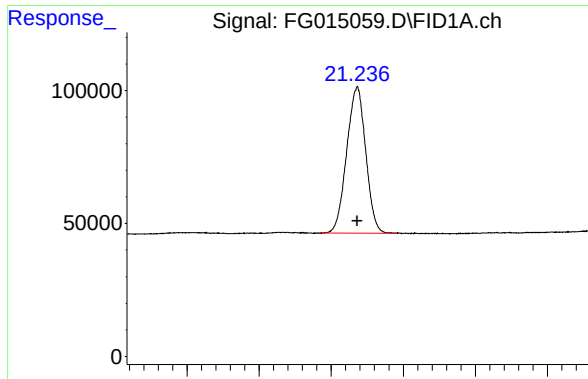
#15 N-TETRATRIACONTANE

R.T.: 19.741 min
Delta R.T.: 0.000 min
Response: 1288019
Conc: 10.39 ug/ml



#16 N-HEXATRIACONTANE

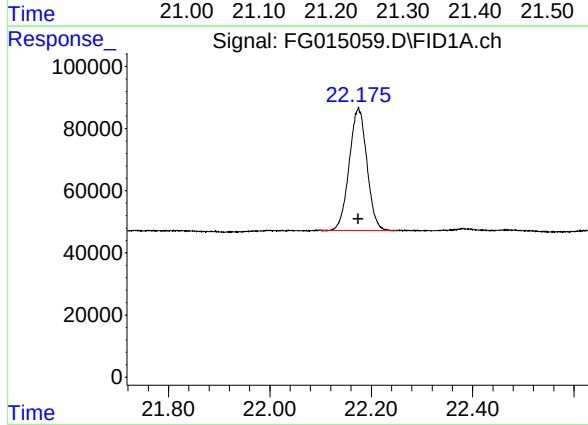
R.T.: 20.484 min
Delta R.T.: 0.000 min
Response: 1102769
Conc: 10.32 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.236 min
Delta R.T.: 0.000 min
Response: 1010014
Conc: 10.40 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.175 min
Delta R.T.: 0.000 min
Response: 952991
Conc: 10.56 ug/ml

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18

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015059.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 10:42
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.012	1.981	2.061	BB	116551	1276191	85.01%	5.283%
2	4.545	4.514	4.583	BB	127760	1314669	87.57%	5.442%
3	6.726	6.696	6.762	BB	137599	1389408	92.55%	5.752%
4	8.563	8.531	8.599	BB	133691	1386903	92.38%	5.741%
5	10.177	10.143	10.215	BB	129522	1437974	95.79%	5.953%
6	11.627	11.593	11.668	BB	134180	1501248	100.00%	6.215%
7	12.942	12.908	12.983	BB	122931	1478786	98.50%	6.122%
8	14.146	14.112	14.188	BB	119620	1466497	97.69%	6.071%
9	15.049	15.012	15.096	BB	95604	1319274	87.88%	5.461%
10	15.254	15.216	15.295	BB	114527	1461022	97.32%	6.048%
11	16.278	16.238	16.321	BB	111744	1440458	95.95%	5.963%
12	17.231	17.191	17.268	BB	105493	1437456	95.75%	5.951%
13	18.121	18.077	18.163	BB	107178	1459210	97.20%	6.041%
14	18.957	18.911	18.997	BB	104074	1433212	95.47%	5.933%
15	19.741	19.691	19.782	BB	86857	1288019	85.80%	5.332%
16	20.484	20.436	20.524	BB	78199	1102769	73.46%	4.565%
17	21.236	21.183	21.290	BB	55242	1010014	67.28%	4.181%
18	22.175	22.097	22.249	BB	39719	952991	63.48%	3.945%
Sum of corrected areas:							24156101	

FG011325.M Mon Jan 13 12:12:53 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
 Data File : FG015060.D
 Signal(s) : FID1A.ch
 Acq On : 13 Jan 2025 11:11
 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: Jan 13 11:35:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Mon Jan 13 11:35:11 2025
 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...	15.048	648631	5.029 ug/ml
Target Compounds			
1) N-OCTANE	2.012	634654	5.162 ug/ml
2) N-DECANE	4.546	654008	5.028 ug/ml
3) N-DODECANE	6.726	692533	5.049 ug/ml
4) N-TETRADECANE	8.563	693227	5.033 ug/ml
5) N-HEXADECANE	10.177	716946	5.051 ug/ml
6) N-OCTADECANE	11.627	747864	5.071 ug/ml
7) N-EICOSANE	12.942	734881	5.028 ug/ml
8) N-DOCOSANE	14.146	728625	5.053 ug/ml
10) N-TETRACOSANE	15.254	725335	5.053 ug/ml
11) N-HEXACOSANE	16.277	714017	5.045 ug/ml
12) N-OCTACOSANE	17.231	719588	5.113 ug/ml
13) N-TRIACONTANE	18.121	746793	5.225 ug/ml
14) N-DOTRIACONTANE	18.956	739109	5.296 ug/ml
15) N-TETRATRIACONTANE	19.742	661594	5.265 ug/ml
16) N-HEXATRIACONTANE	20.483	565434	5.231 ug/ml
17) N-OCTATRIACONTANE	21.234	509611	5.195 ug/ml
18) N-TETRACONTANE	22.172	475271	5.212 ug/ml

(f)=RT Delta > 1/2 Window

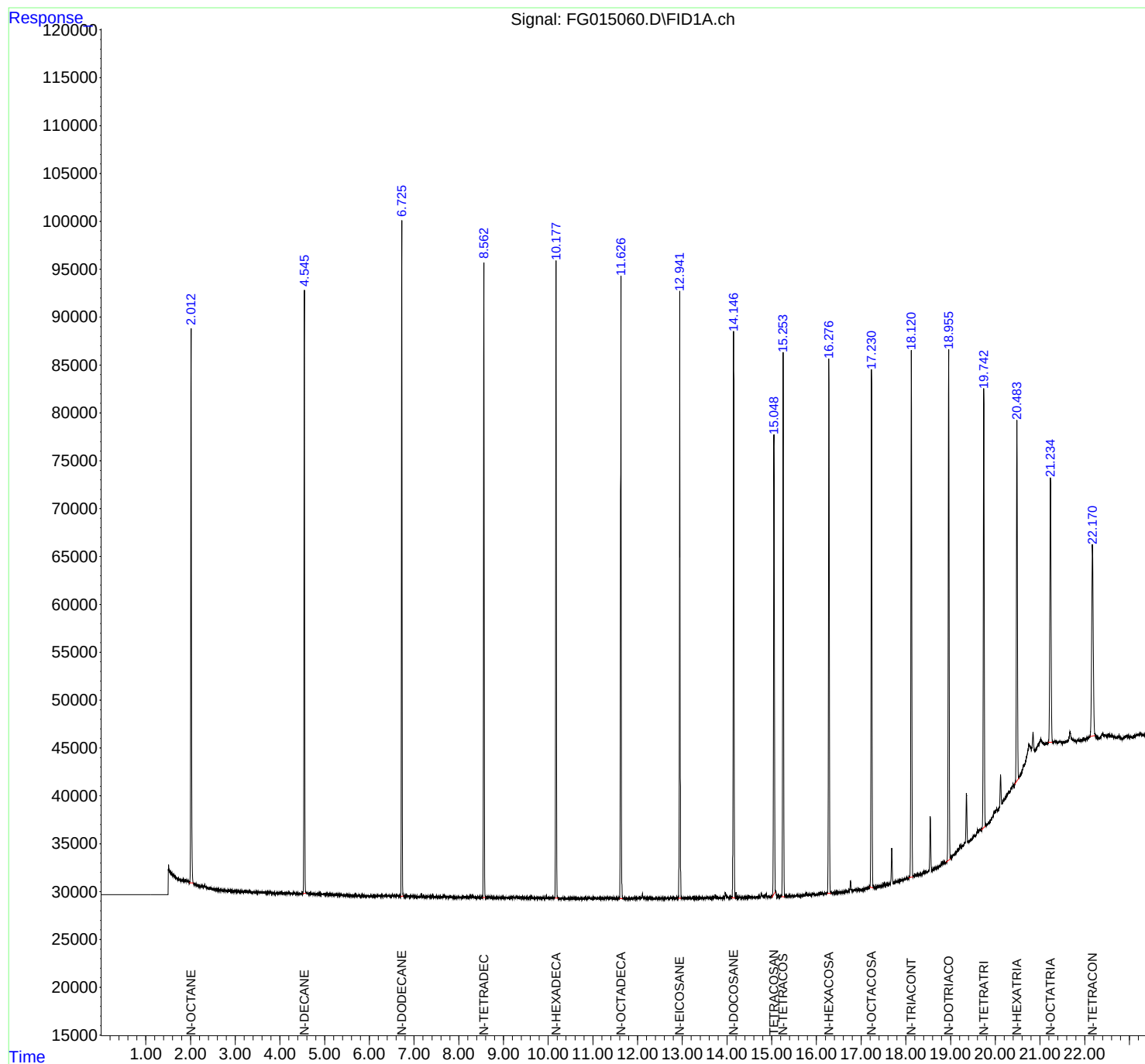
(m)=manual int.

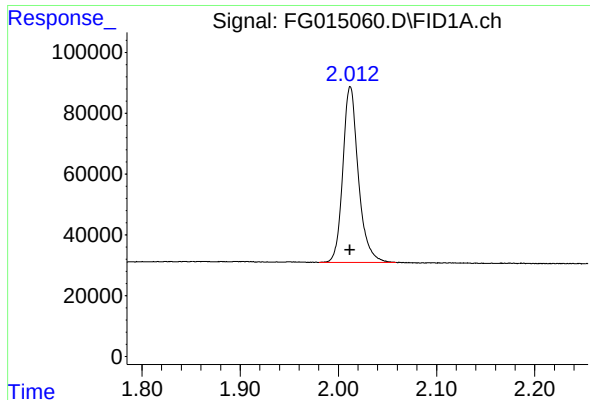
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015060.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 11:11
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 13 11:35:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Mon Jan 13 11:35:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

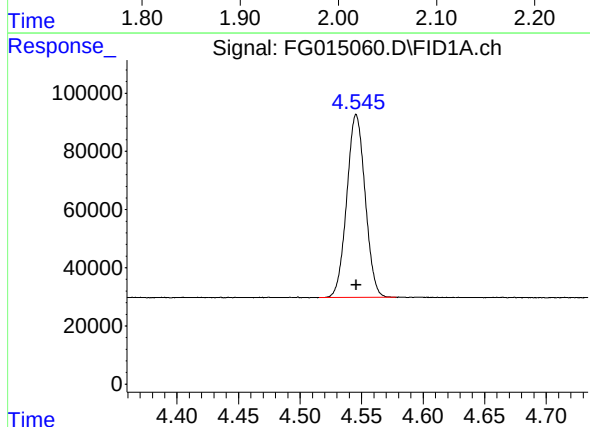




#1 N-OCTANE

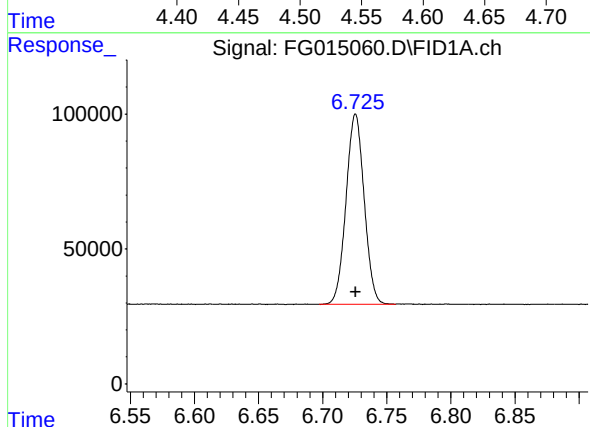
R.T.: 2.012 min
Delta R.T.: 0.000 min
Response: 634654
Conc: 5.16 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



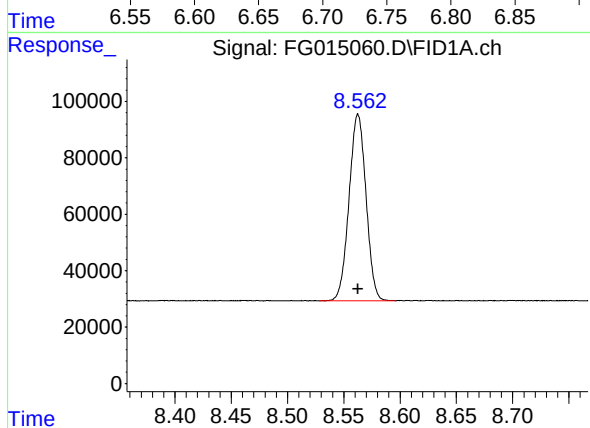
#2 N-DECANE

R.T.: 4.546 min
Delta R.T.: 0.000 min
Response: 654008
Conc: 5.03 ug/ml



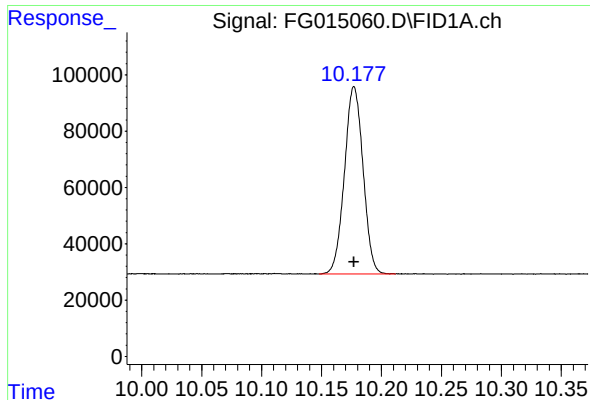
#3 N-DODECANE

R.T.: 6.726 min
Delta R.T.: 0.000 min
Response: 692533
Conc: 5.05 ug/ml



#4 N-TETRADECANE

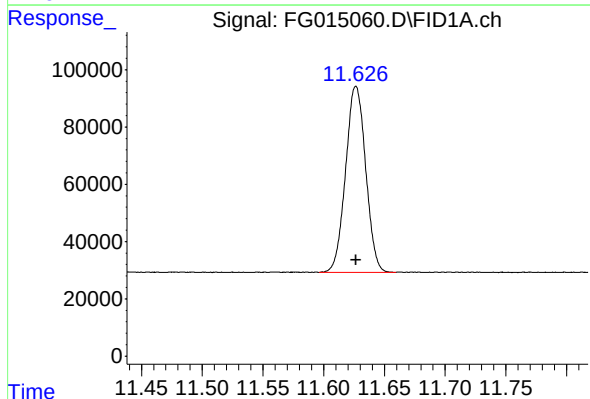
R.T.: 8.563 min
Delta R.T.: 0.000 min
Response: 693227
Conc: 5.03 ug/ml



#5 N-HEXADECANE

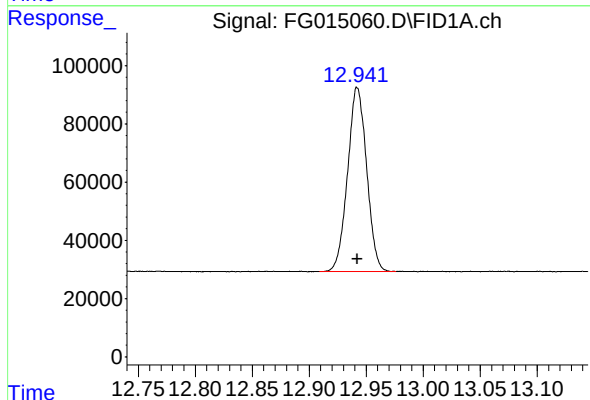
R.T.: 10.177 min
Delta R.T.: 0.000 min
Response: 716946
Conc: 5.05 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



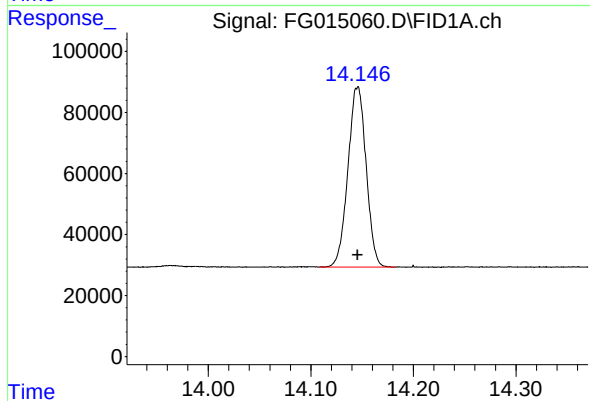
#6 N-OCTADECANE

R.T.: 11.627 min
Delta R.T.: 0.000 min
Response: 747864
Conc: 5.07 ug/ml



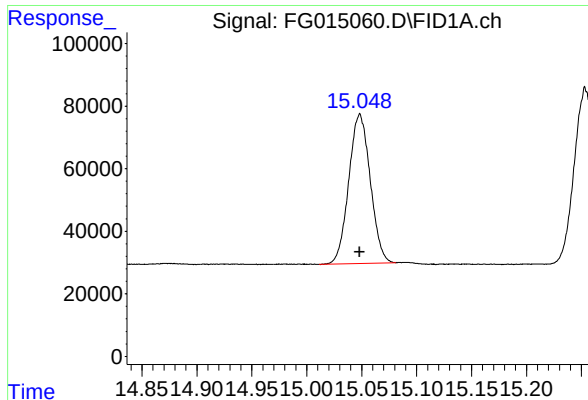
#7 N-EICOSANE

R.T.: 12.942 min
Delta R.T.: 0.000 min
Response: 734881
Conc: 5.03 ug/ml



#8 N-DOCOSANE

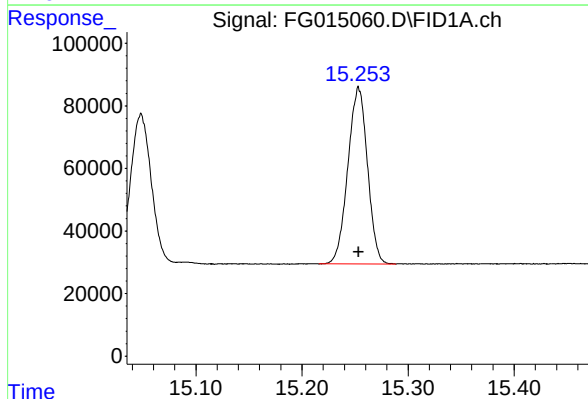
R.T.: 14.146 min
Delta R.T.: 0.000 min
Response: 728625
Conc: 5.05 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

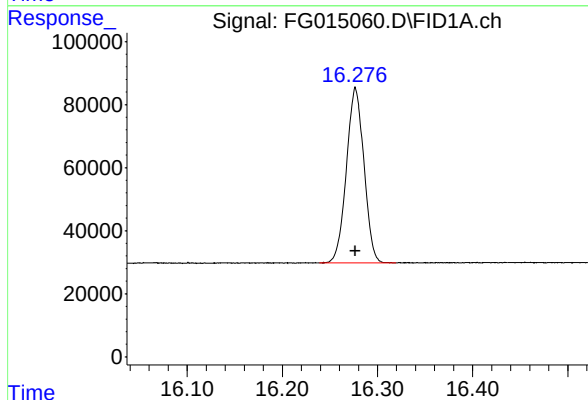
R.T.: 15.048 min
Delta R.T.: 0.000 min
Response: 648631
Conc: 5.03 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



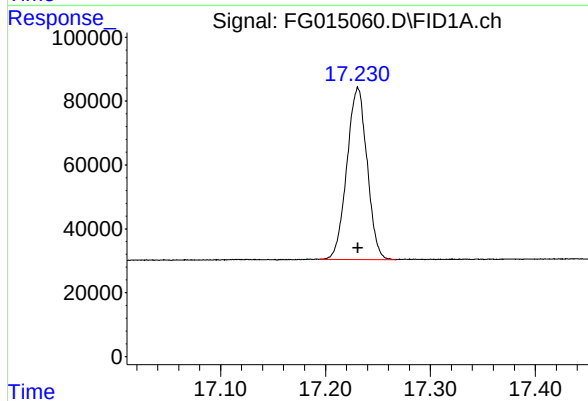
#10 N-TETRACOSANE

R.T.: 15.254 min
Delta R.T.: 0.000 min
Response: 725335
Conc: 5.05 ug/ml



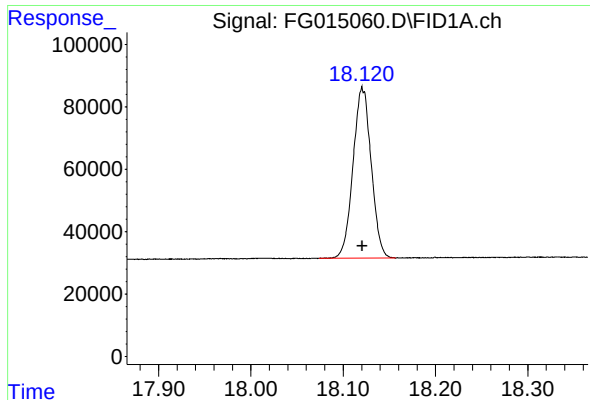
#11 N-HEXACOSANE

R.T.: 16.277 min
Delta R.T.: 0.000 min
Response: 714017
Conc: 5.04 ug/ml



#12 N-OCTACOSANE

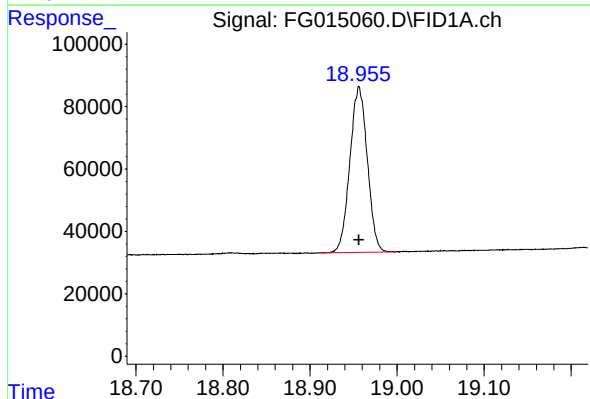
R.T.: 17.231 min
Delta R.T.: 0.000 min
Response: 719588
Conc: 5.11 ug/ml



#13 N-TRIACONTANE

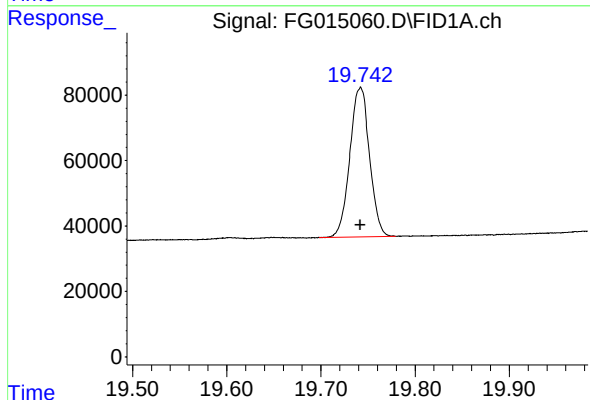
R.T.: 18.121 min
Delta R.T.: 0.000 min
Response: 746793
Conc: 5.23 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



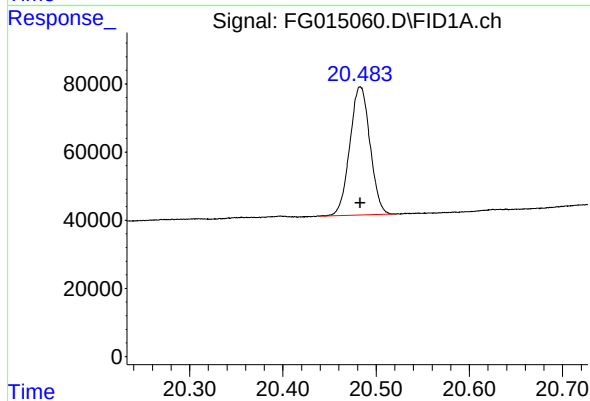
#14 N-DOTRIACONTANE

R.T.: 18.956 min
Delta R.T.: 0.000 min
Response: 739109
Conc: 5.30 ug/ml



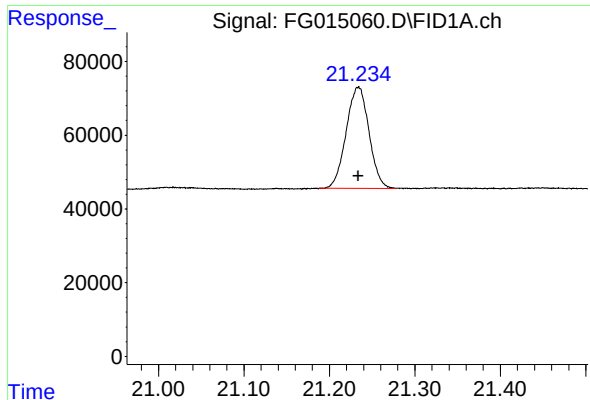
#15 N-TETRATRIACONTANE

R.T.: 19.742 min
Delta R.T.: 0.000 min
Response: 661594
Conc: 5.27 ug/ml



#16 N-HEXATRIACONTANE

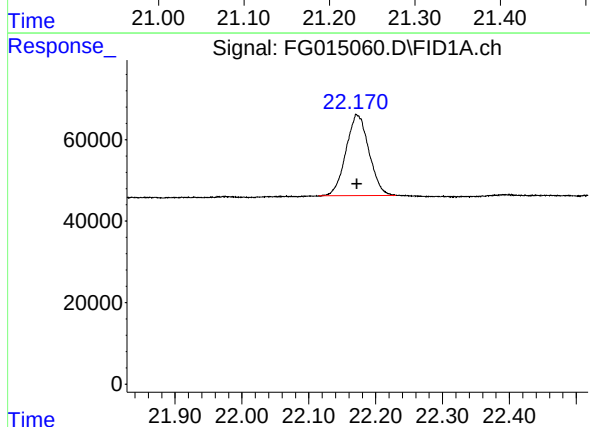
R.T.: 20.483 min
Delta R.T.: 0.000 min
Response: 565434
Conc: 5.23 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.234 min
Delta R.T.: 0.000 min
Response: 509611
Conc: 5.20 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.172 min
Delta R.T.: 0.000 min
Response: 475271
Conc: 5.21 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015060.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 11:11
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.012	1.980	2.059	BB	57857	634654	84.86%	5.242%
2	4.546	4.515	4.578	BB	62980	654008	87.45%	5.401%
3	6.726	6.697	6.757	BB	70587	692533	92.60%	5.720%
4	8.563	8.528	8.596	BB	66151	693227	92.69%	5.725%
5	10.177	10.148	10.212	BB	66556	716946	95.87%	5.921%
6	11.627	11.596	11.660	BB	64945	747864	100.00%	6.177%
7	12.942	12.909	12.976	BB	63072	734881	98.26%	6.069%
8	14.146	14.108	14.183	BB	58745	728625	97.43%	6.018%
9	15.048	15.011	15.081	BB	47823	648631	86.73%	5.357%
10	15.254	15.216	15.289	BB	56152	725335	96.99%	5.990%
11	16.277	16.239	16.320	BB	55490	714017	95.47%	5.897%
12	17.231	17.194	17.267	BB	53743	719588	96.22%	5.943%
13	18.121	18.074	18.157	BB	54311	746793	99.86%	6.168%
14	18.956	18.910	18.999	BB	53232	739109	98.83%	6.104%
15	19.742	19.698	19.780	BB	45796	661594	88.46%	5.464%
16	20.483	20.439	20.521	BB	37634	565434	75.61%	4.670%
17	21.234	21.188	21.278	BB	27412	509611	68.14%	4.209%
18	22.172	22.115	22.230	BB	19853	475271	63.55%	3.925%
Sum of corrected areas:							12108119	

FG011325.M Mon Jan 13 12:13:09 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
 Data File : FG015061.D
 Signal(s) : FID1A.ch
 Acq On : 13 Jan 2025 11:39
 Operator : YP\AJ
 Sample : 100 TRPH STD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 100 TRPH STD

Integration File: autoint1.e
 Quant Time: Jan 13 11:50:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Mon Jan 13 11:50:48 2025
 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...	15.056	11798567	91.980 ug/ml
Target Compounds			
1) N-OCTANE	2.010	11457523	93.897 ug/ml
2) N-DECANE	4.549	11755056	91.003 ug/ml
3) N-DODECANE	6.732	12400369	91.021 ug/ml
4) N-TETRADECANE	8.569	12323693	90.042 ug/ml
5) N-HEXADECANE	10.184	12738160	90.270 ug/ml
6) N-OCTADECANE	11.635	13302325	90.685 ug/ml
7) N-EICOSANE	12.951	13120855	90.248 ug/ml
8) N-DOCOSANE	14.155	13017284	90.736 ug/ml
10) N-TETRACOSANE	15.263	12974293	90.840 ug/ml
11) N-HEXACOSANE	16.288	12736383	90.432 ug/ml
12) N-OCTACOSANE	17.241	12438625	88.827 ug/ml
13) N-TRIACONTANE	18.132	12179850	85.611 ug/ml
14) N-DOTRIACONTANE	18.966	11733502	84.423 ug/ml
15) N-TETRATRIACONTANE	19.752	10691422	85.329 ug/ml
16) N-HEXATRIACONTANE	20.492	9388301	86.879 ug/ml
17) N-OCTATRIACONTANE	21.244	8808855	89.303 ug/ml
18) N-TETRACONTANE	22.185	8630372	92.952 ug/ml

(f)=RT Delta > 1/2 Window

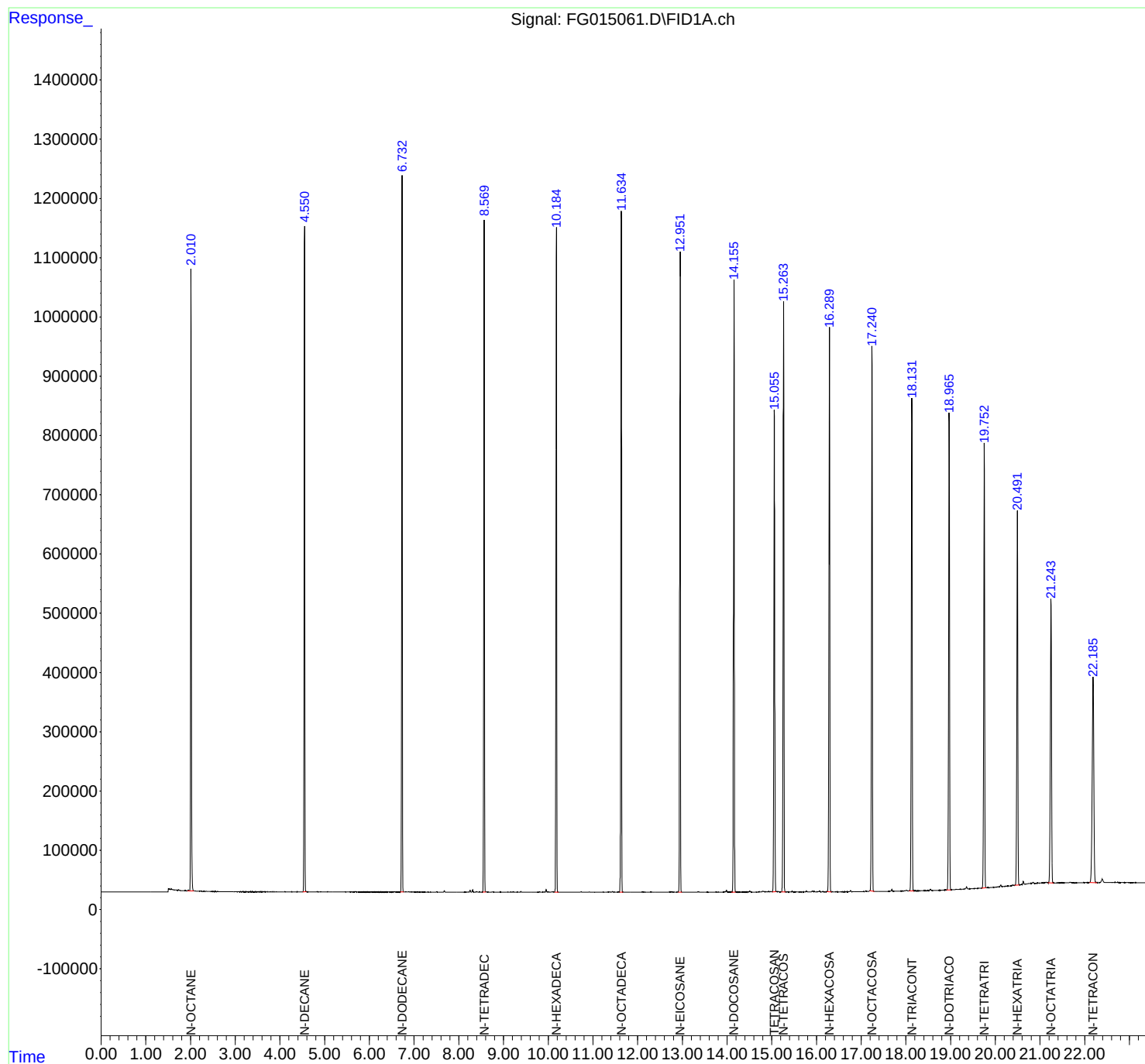
(m)=manual int.

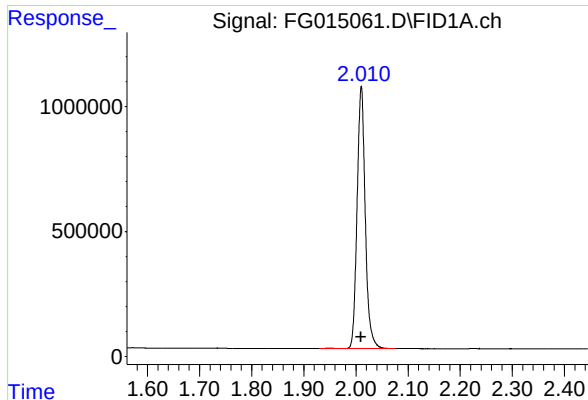
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015061.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 11:39
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 13 11:50:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
Qlast Update : Mon Jan 13 11:50:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

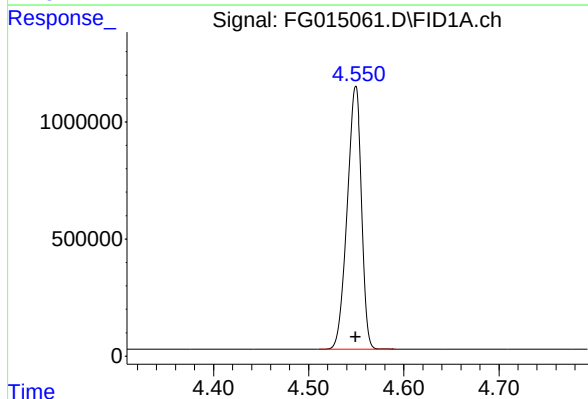




#1 N-OCTANE

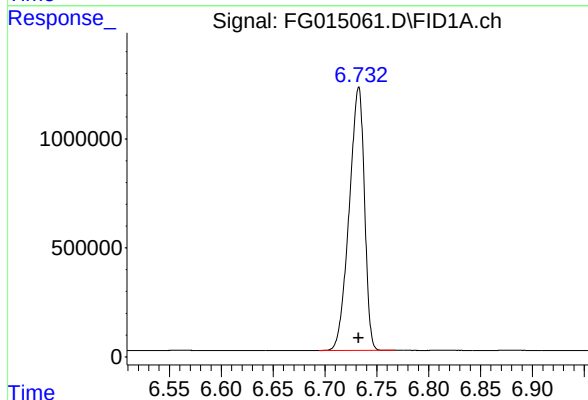
R.T.: 2.010 min
Delta R.T.: 0.000 min
Response: 11457523
Conc: 93.90 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



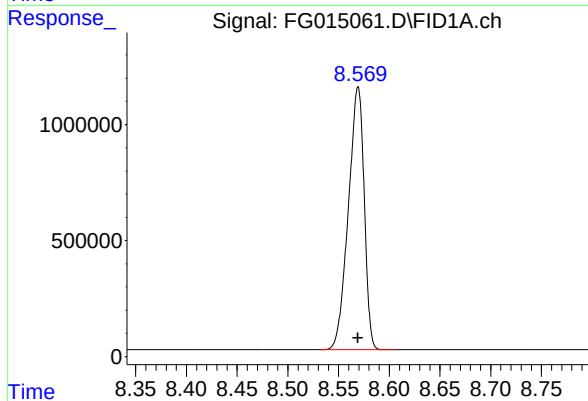
#2 N-DECANE

R.T.: 4.549 min
Delta R.T.: 0.000 min
Response: 11755056
Conc: 91.00 ug/ml



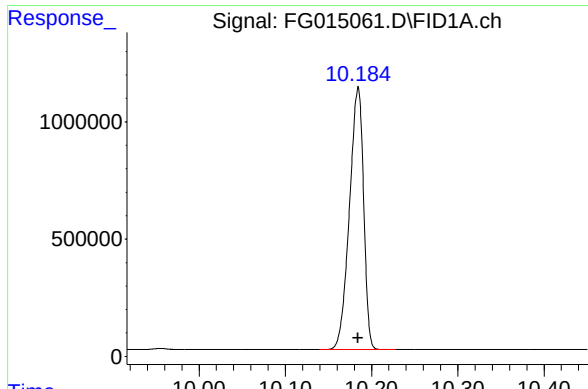
#3 N-DODECANE

R.T.: 6.732 min
Delta R.T.: 0.000 min
Response: 12400369
Conc: 91.02 ug/ml



#4 N-TETRADECANE

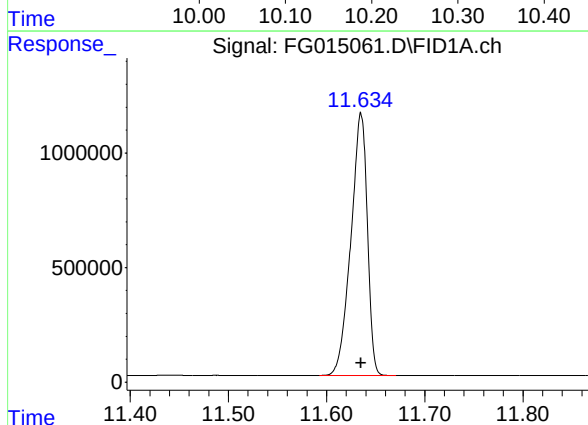
R.T.: 8.569 min
Delta R.T.: 0.000 min
Response: 12323693
Conc: 90.04 ug/ml



#5 N-HEXADECANE

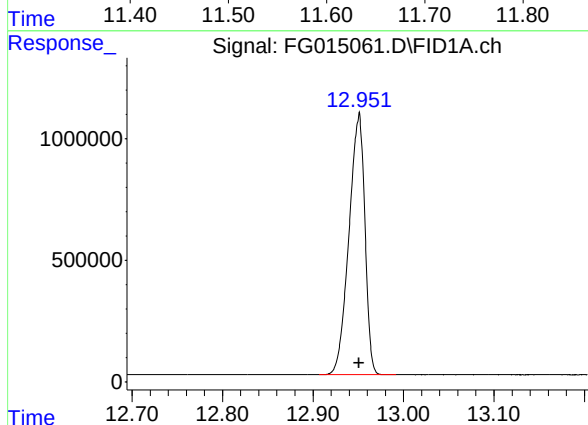
R.T.: 10.184 min
Delta R.T.: 0.000 min
Response: 12738160
Conc: 90.27 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



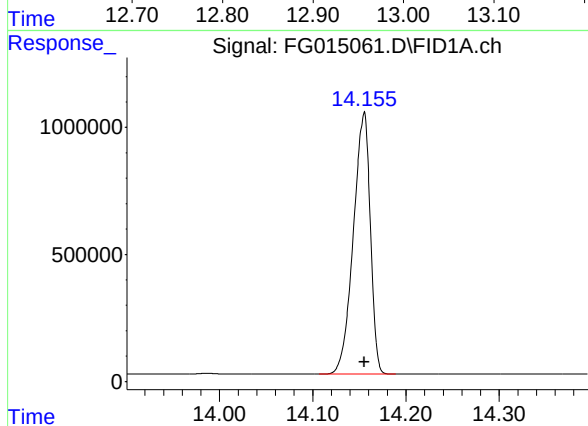
#6 N-OCTADECANE

R.T.: 11.635 min
Delta R.T.: 0.000 min
Response: 13302325
Conc: 90.68 ug/ml



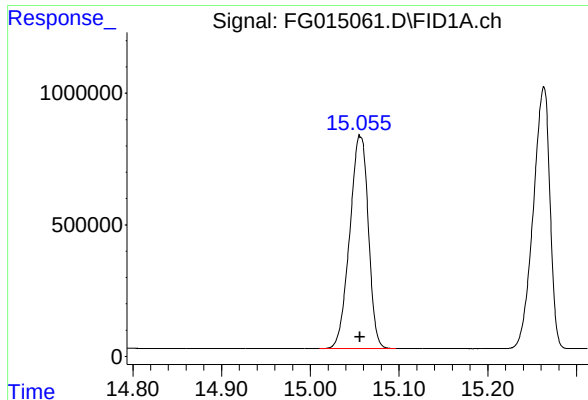
#7 N-EICOSANE

R.T.: 12.951 min
Delta R.T.: 0.000 min
Response: 13120855
Conc: 90.25 ug/ml



#8 N-DOCOSANE

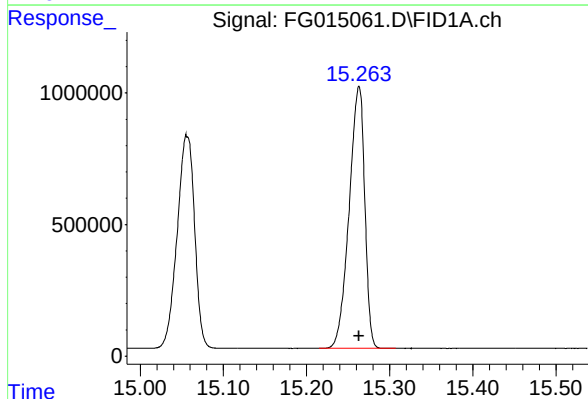
R.T.: 14.155 min
Delta R.T.: 0.000 min
Response: 13017284
Conc: 90.74 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

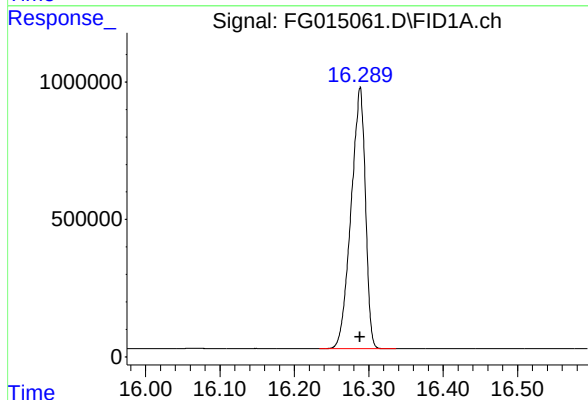
R.T.: 15.056 min
Delta R.T.: 0.000 min
Response: 11798567
Conc: 91.98 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



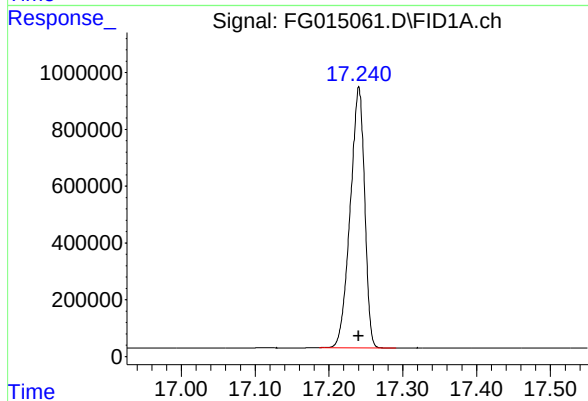
#10 N-TETRACOSANE

R.T.: 15.263 min
Delta R.T.: 0.000 min
Response: 12974293
Conc: 90.84 ug/ml



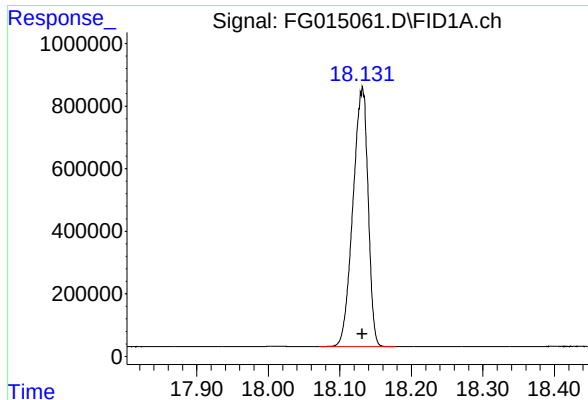
#11 N-HEXACOSANE

R.T.: 16.288 min
Delta R.T.: 0.000 min
Response: 12736383
Conc: 90.43 ug/ml



#12 N-OCTACOSANE

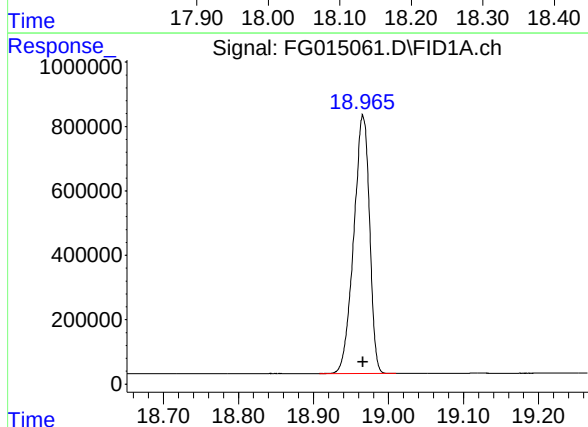
R.T.: 17.241 min
Delta R.T.: 0.000 min
Response: 12438625
Conc: 88.83 ug/ml



#13 N-TRIACONTANE

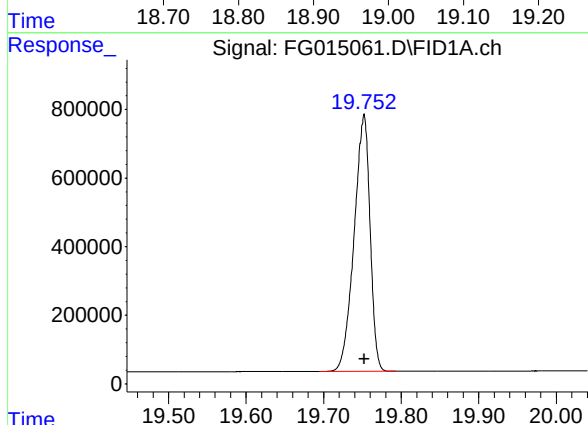
R.T.: 18.132 min
Delta R.T.: 0.000 min
Response: 12179850
Conc: 85.61 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



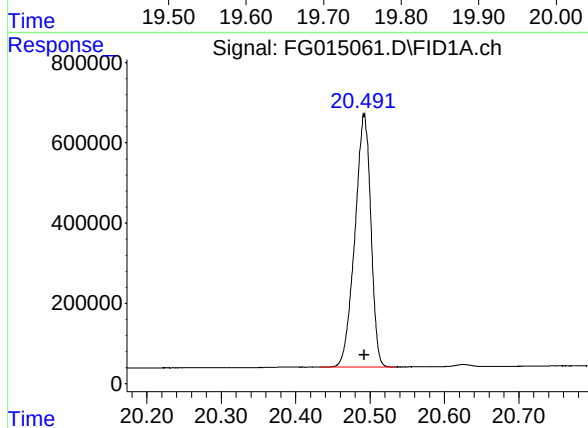
#14 N-DOTRIACONTANE

R.T.: 18.966 min
Delta R.T.: 0.000 min
Response: 11733502
Conc: 84.42 ug/ml



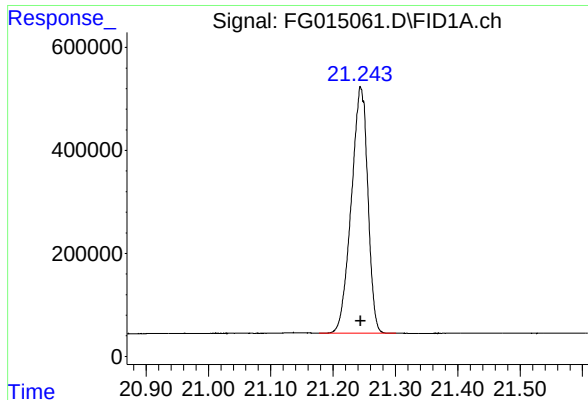
#15 N-TETRATRIACONTANE

R.T.: 19.752 min
Delta R.T.: 0.000 min
Response: 10691422
Conc: 85.33 ug/ml



#16 N-HEXATRIACONTANE

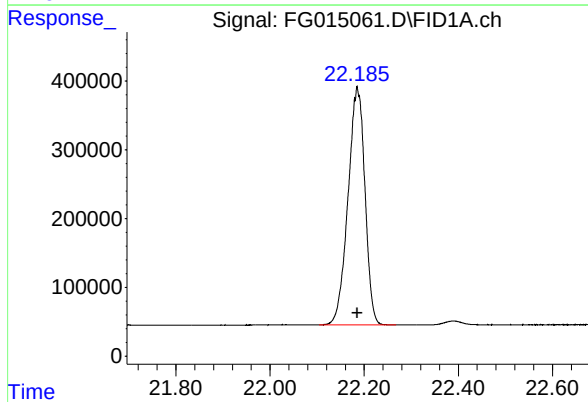
R.T.: 20.492 min
Delta R.T.: 0.000 min
Response: 9388301
Conc: 86.88 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.244 min
Delta R.T.: 0.000 min
Response: 8808855
Conc: 89.30 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.185 min
Delta R.T.: 0.000 min
Response: 8630372
Conc: 92.95 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015061.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 11:39
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.010	1.929	2.077	BB	1049435	11457523	86.13%	5.417%
2	4.549	4.511	4.592	BB	1122240	11755056	88.37%	5.558%
3	6.732	6.694	6.768	BB	1209156	12400369	93.22%	5.863%
4	8.569	8.531	8.607	BB	1133983	12323693	92.64%	5.827%
5	10.184	10.139	10.228	BB	1119738	12738160	95.76%	6.023%
6	11.635	11.593	11.671	BB	1145301	13302325	100.00%	6.290%
7	12.951	12.907	12.992	BB	1071561	13120855	98.64%	6.204%
8	14.155	14.107	14.189	BB	1028232	13017284	97.86%	6.155%
9	15.056	15.010	15.097	BB	804535	11798567	88.70%	5.579%
10	15.263	15.215	15.308	BB	995883	12974293	97.53%	6.135%
11	16.288	16.233	16.337	BB	948498	12736383	95.75%	6.022%
12	17.241	17.187	17.291	BB	919608	12438625	93.51%	5.881%
13	18.132	18.071	18.178	BB	831169	12179850	91.56%	5.759%
14	18.966	18.908	19.010	BB	801625	11733502	88.21%	5.548%
15	19.752	19.694	19.793	BB	751020	10691422	80.37%	5.055%
16	20.492	20.432	20.535	BB	626090	9388301	70.58%	4.439%
17	21.244	21.178	21.301	BB	477507	8808855	66.22%	4.165%
18	22.185	22.104	22.268	BB	346761	8630372	64.88%	4.081%
Sum of corrected areas:						211495435		

FG011325.M Mon Jan 13 12:13:24 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
 Data File : FG015062.D
 Signal(s) : FID1A.ch
 Acq On : 13 Jan 2025 12:07
 Operator : YP\AJ
 Sample : FG011325ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 FG011325ICV

Integration File: autoint1.e
 Quant Time: Jan 13 12:58:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Mon Jan 13 11:52:01 2025
 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...	15.054	6435456	50.170 ug/ml
Target Compounds			
1) N-OCTANE	2.011	5689865	46.630 ug/ml
2) N-DECANE	4.547	6668871	51.628 ug/ml
3) N-DODECANE	6.729	6965368	51.127 ug/ml
4) N-TETRADECANE	8.566	7162213	52.330 ug/ml
5) N-HEXADECANE	10.181	7292547	51.679 ug/ml
6) N-OCTADECANE	11.631	7485788	51.032 ug/ml
7) N-EICOSANE	12.948	7583215	52.159 ug/ml
8) N-DOCOSANE	14.150	7362758	51.322 ug/ml
10) N-TETRACOSANE	15.259	7320313	51.254 ug/ml
11) N-HEXACOSANE	16.283	7276923	51.668 ug/ml
12) N-OCTACOSANE	17.236	7251213	51.782 ug/ml
13) N-TRIACONTANE	18.127	7526376	52.902 ug/ml
14) N-DOTRIACONTANE	18.962	7422331	53.404 ug/ml
15) N-TETRATRIACONTANE	19.748	6986454	55.759 ug/ml
16) N-HEXATRIACONTANE	20.491	6347544	58.740 ug/ml
17) N-OCTATRIACONTANE	21.240	5886866	59.680 ug/ml
18) N-TETRACONTANE	22.182	5565107	59.938 ug/ml

(f)=RT Delta > 1/2 Window

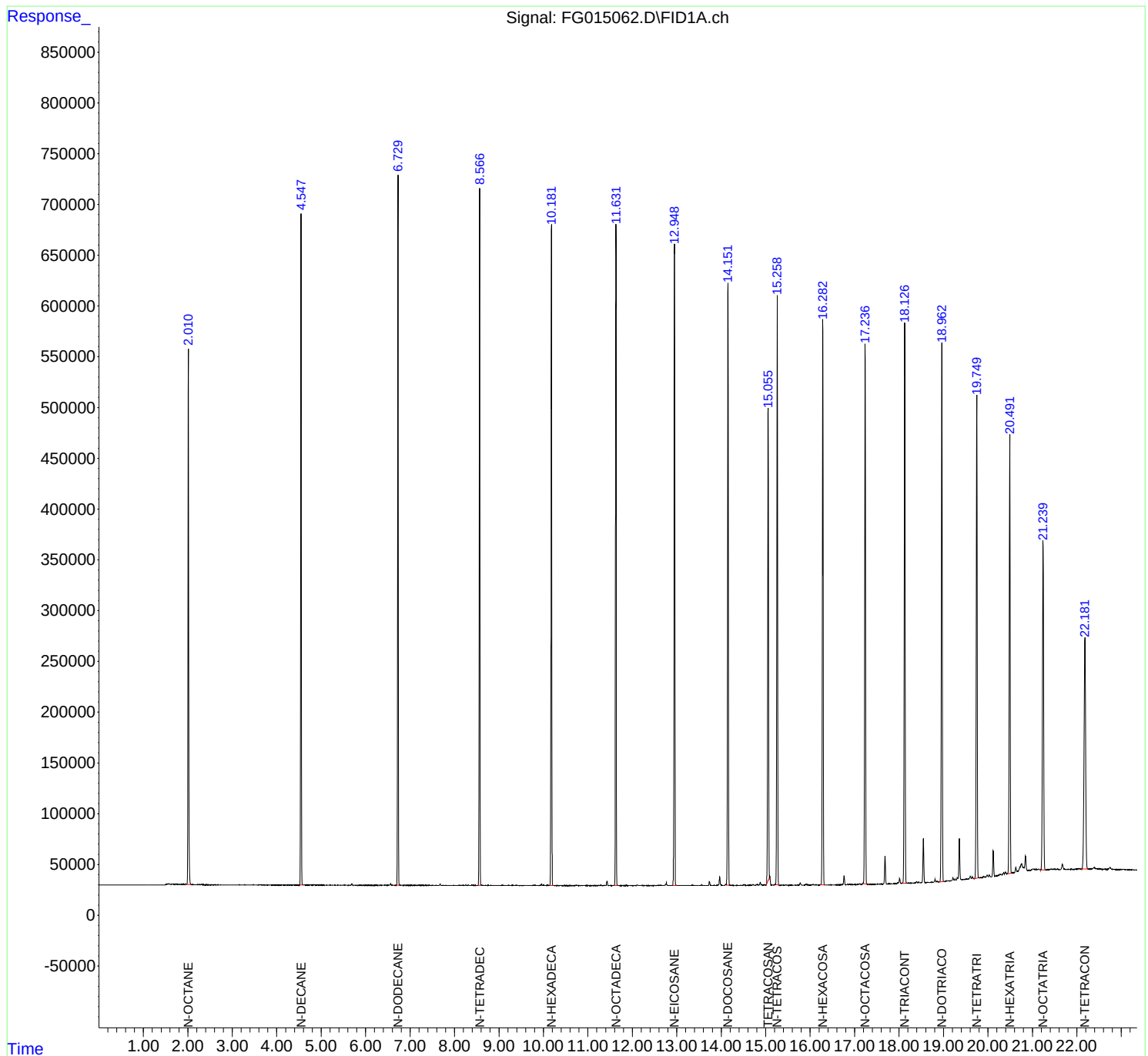
(m)=manual int.

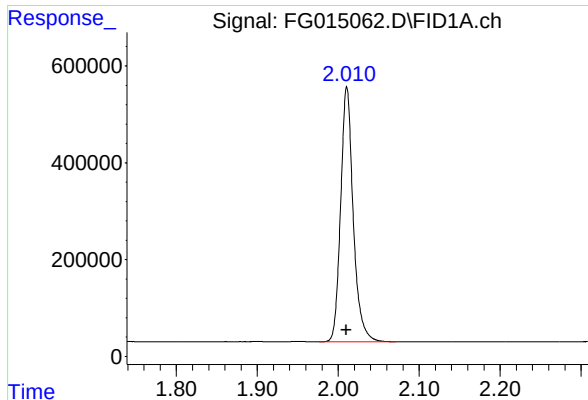
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015062.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 12:07
Operator : YP\AJ
Sample : FG011325ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
FG011325ICV

Integration File: autoint1.e
Quant Time: Jan 13 12:58:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Mon Jan 13 11:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

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

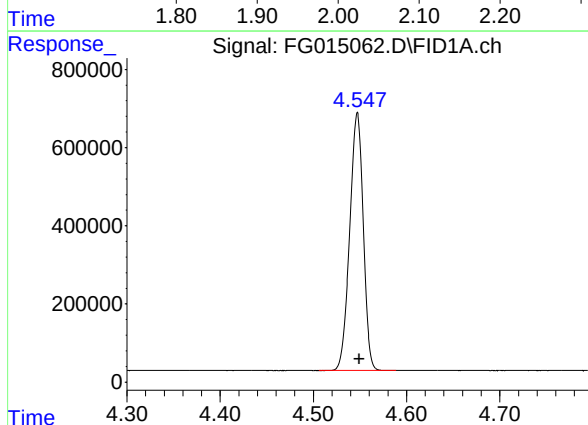




#1 N-OCTANE

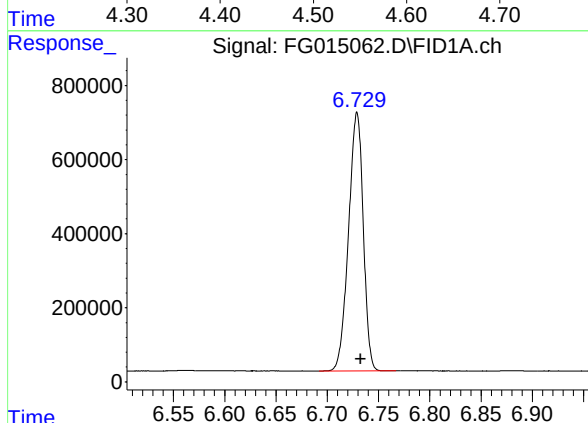
R.T.: 2.011 min
Delta R.T.: 0.000 min
Response: 5689865
Conc: 46.63 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



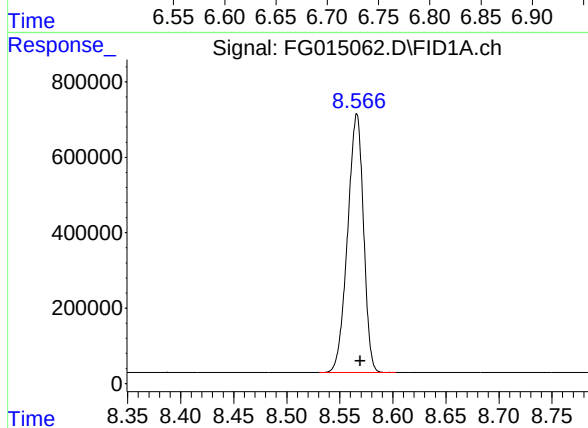
#2 N-DECANE

R.T.: 4.547 min
Delta R.T.: -0.002 min
Response: 6668871
Conc: 51.63 ug/ml



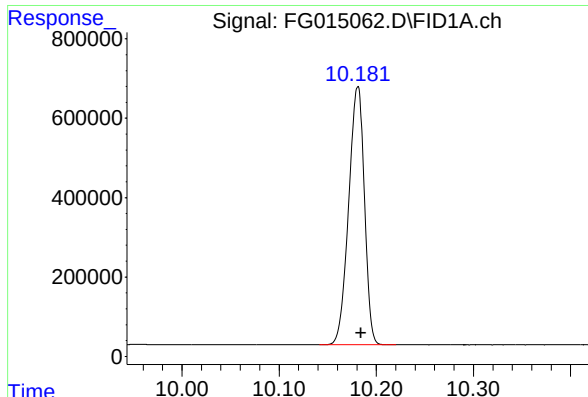
#3 N-DODECANE

R.T.: 6.729 min
Delta R.T.: -0.003 min
Response: 6965368
Conc: 51.13 ug/ml



#4 N-TETRADECANE

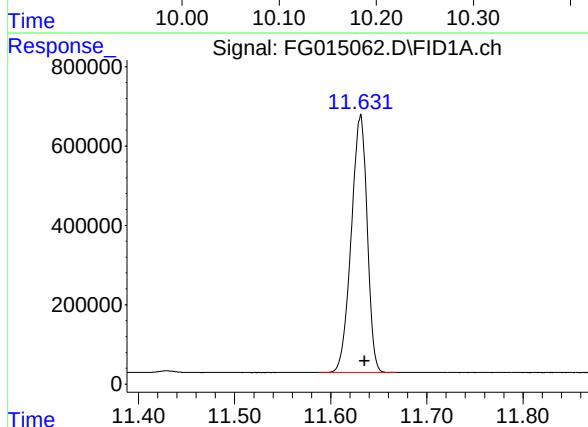
R.T.: 8.566 min
Delta R.T.: -0.003 min
Response: 7162213
Conc: 52.33 ug/ml



#5 N-HEXADECANE

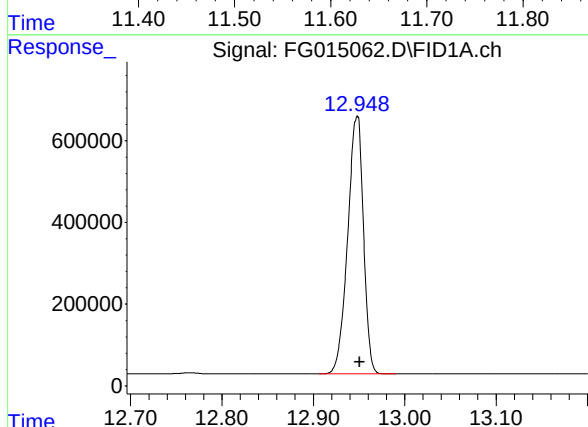
R.T.: 10.181 min
Delta R.T.: -0.003 min
Response: 7292547
Conc: 51.68 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



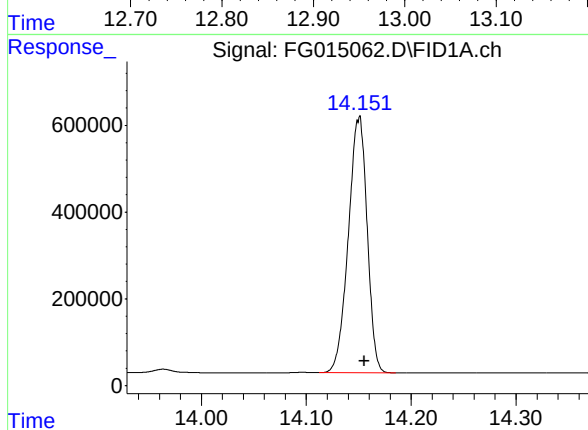
#6 N-OCTADECANE

R.T.: 11.631 min
Delta R.T.: -0.004 min
Response: 7485788
Conc: 51.03 ug/ml



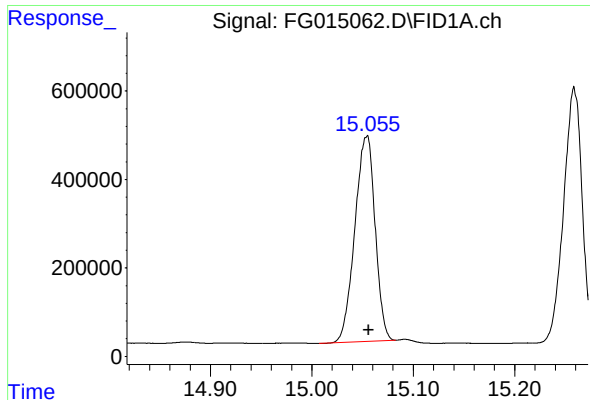
#7 N-EICOSANE

R.T.: 12.948 min
Delta R.T.: -0.003 min
Response: 7583215
Conc: 52.16 ug/ml



#8 N-DOCOSANE

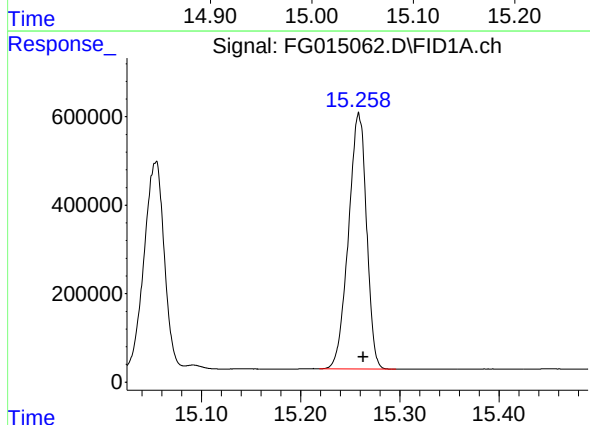
R.T.: 14.150 min
Delta R.T.: -0.005 min
Response: 7362758
Conc: 51.32 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

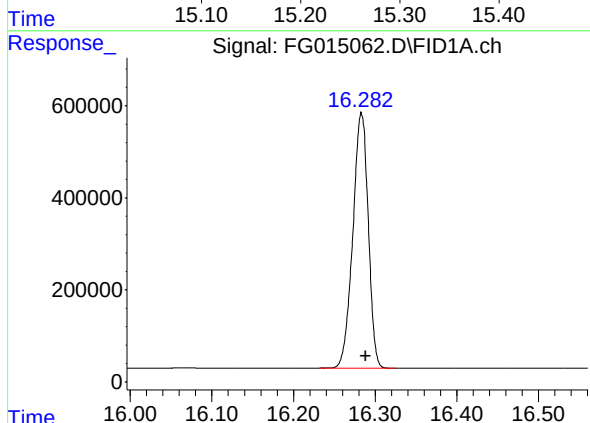
R.T.: 15.054 min
Delta R.T.: -0.002 min
Response: 6435456
Conc: 50.17 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



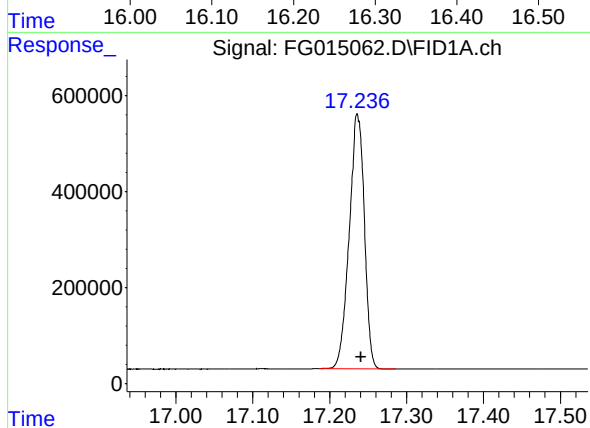
#10 N-TETRACOSANE

R.T.: 15.259 min
Delta R.T.: -0.005 min
Response: 7320313
Conc: 51.25 ug/ml



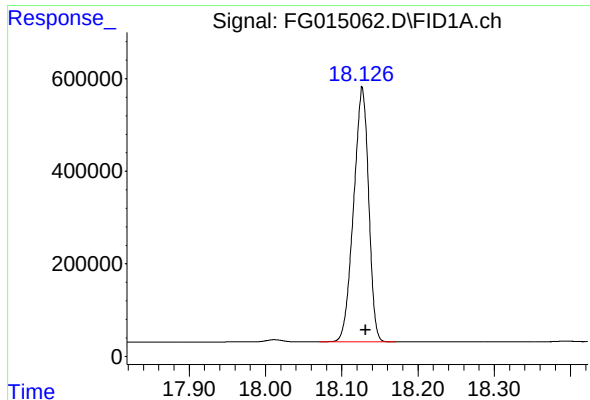
#11 N-HEXACOSANE

R.T.: 16.283 min
Delta R.T.: -0.005 min
Response: 7276923
Conc: 51.67 ug/ml



#12 N-OCTACOSANE

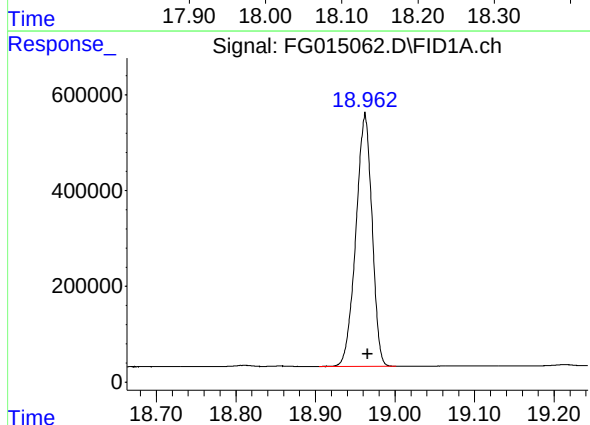
R.T.: 17.236 min
Delta R.T.: -0.005 min
Response: 7251213
Conc: 51.78 ug/ml



#13 N-TRIACONTANE

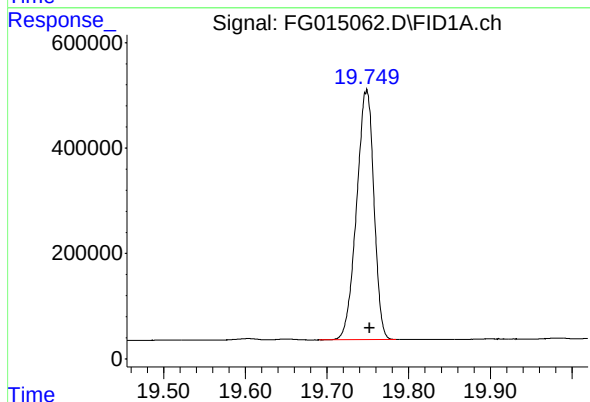
R.T.: 18.127 min
Delta R.T.: -0.005 min
Response: 7526376
Conc: 52.90 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



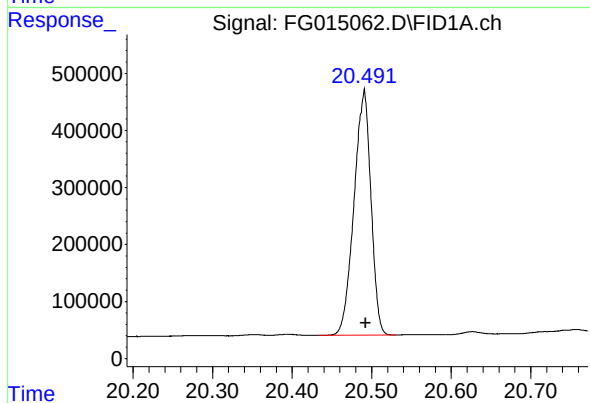
#14 N-DOTRIACONTANE

R.T.: 18.962 min
Delta R.T.: -0.003 min
Response: 7422331
Conc: 53.40 ug/ml



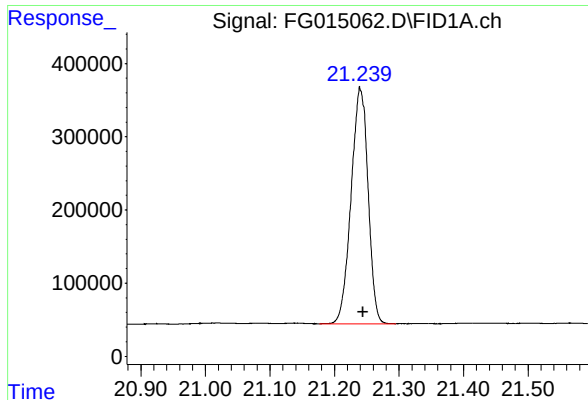
#15 N-TETRATRIACONTANE

R.T.: 19.748 min
Delta R.T.: -0.004 min
Response: 6986454
Conc: 55.76 ug/ml



#16 N-HEXATRIACONTANE

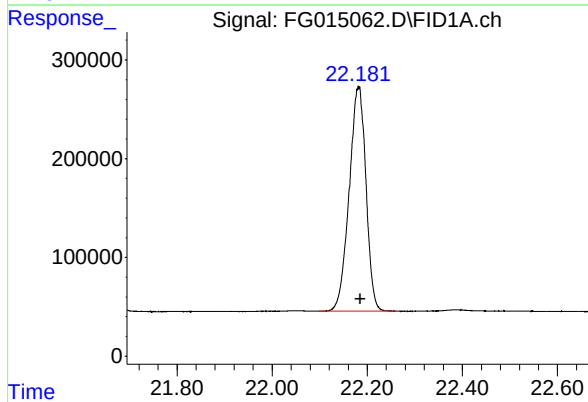
R.T.: 20.491 min
Delta R.T.: -0.001 min
Response: 6347544
Conc: 58.74 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.240 min
Delta R.T.: -0.005 min
Response: 5886866
Conc: 59.68 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



#18 N-TETRACONTANE

R.T.: 22.182 min
Delta R.T.: -0.003 min
Response: 5565107
Conc: 59.94 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015062.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 12:07
Sample : FG011325ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.011	1.976	2.071	BB	527275	5689865	75.03%	4.580%
2	4.547	4.506	4.589	BB	660717	6668871	87.94%	5.368%
3	6.729	6.692	6.767	BB	697252	6965368	91.85%	5.607%
4	8.566	8.530	8.603	BB	686560	7162213	94.45%	5.765%
5	10.181	10.141	10.220	BB	650981	7292547	96.17%	5.870%
6	11.631	11.588	11.668	BB	649600	7485788	98.72%	6.026%
7	12.948	12.906	12.990	BB	631462	7583215	100.00%	6.104%
8	14.150	14.112	14.185	BB	585011	7362758	97.09%	5.927%
9	15.054	15.007	15.083	BV	463600	6435456	84.86%	5.180%
10	15.259	15.219	15.296	BB	578906	7320313	96.53%	5.893%
11	16.283	16.231	16.325	BB	555163	7276923	95.96%	5.858%
12	17.236	17.186	17.286	BB	531755	7251213	95.62%	5.837%
13	18.127	18.070	18.171	BB	549655	7526376	99.25%	6.058%
14	18.962	18.905	19.001	BB	528971	7422331	97.88%	5.975%
15	19.748	19.690	19.785	BB	473839	6986454	92.13%	5.624%
16	20.491	20.434	20.530	BB	432268	6347544	83.71%	5.110%
17	21.240	21.176	21.295	BB	321478	5886866	77.63%	4.739%
18	22.182	22.099	22.260	BB	226472	5565107	73.39%	4.480%
Sum of corrected areas:						124229206		

FG011325.M Mon Jan 13 13:56:24 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01
 ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235
 DataFile: FE052168.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	48882662	97765	106182	7.927

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052168.D
 Signal(s) : FID1B.ch
 Acq On : 31 Jan 2025 10:26
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Feb 03 00:07:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 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...	15.275	4578853	45.973 ug/ml
Target Compounds			
2) N-DECANE	4.934	4273136	46.699 ug/ml
3) N-DODECANE	7.061	4628141	46.321 ug/ml
4) N-TETRADECANE	8.865	4676456	45.961 ug/ml
5) N-HEXADECANE	10.457	4890327	45.893 ug/ml
6) N-OCTADECANE	11.889	5152055	45.951 ug/ml
7) N-EICOSANE	13.190	5111168	45.890 ug/ml
8) N-DOCOSANE	14.381	5088936	45.834 ug/ml
10) N-TETRACOSANE	15.479	5083452	45.958 ug/ml
11) N-HEXACOSANE	16.494	5012750	45.984 ug/ml
12) N-OCTACOSANE	17.440	4966241	46.010 ug/ml

(f)=RT Delta > 1/2 Window

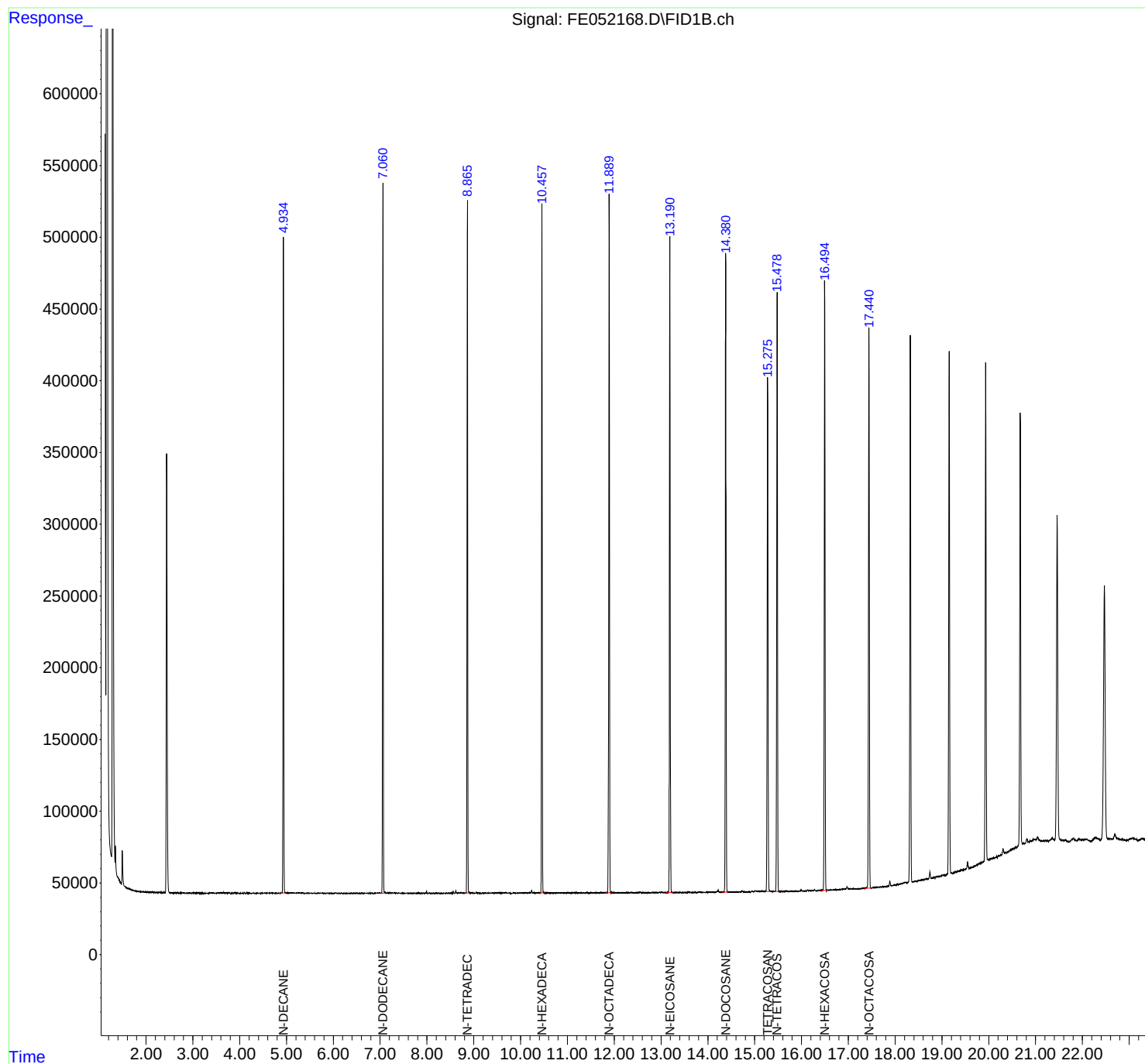
(m)=manual int.

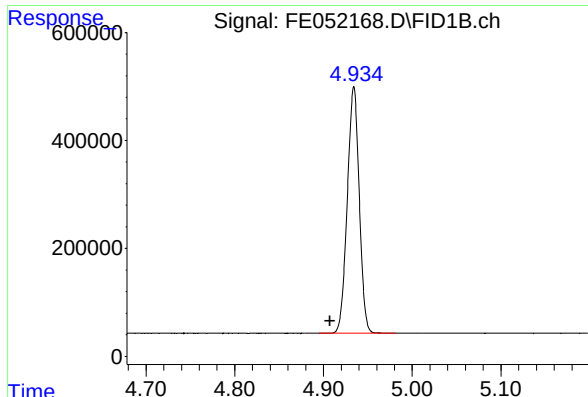
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052168.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 10:26
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Feb 03 00:07:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

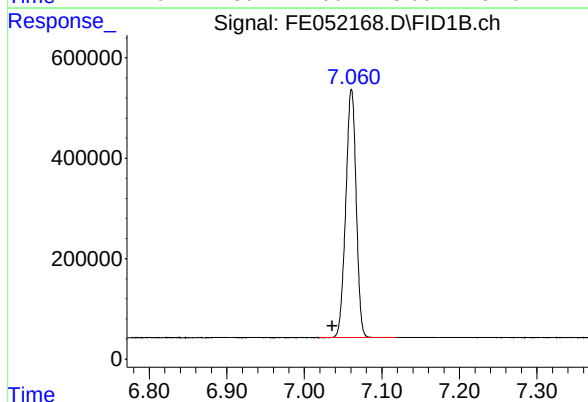




#2 N-DECANE

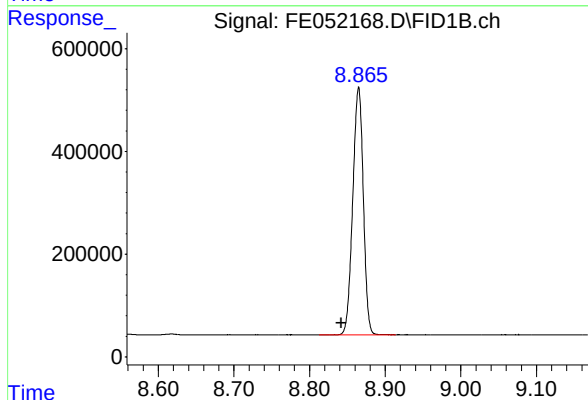
R.T.: 4.934 min
Delta R.T.: 0.027 min
Response: 4273136
Conc: 46.70 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD



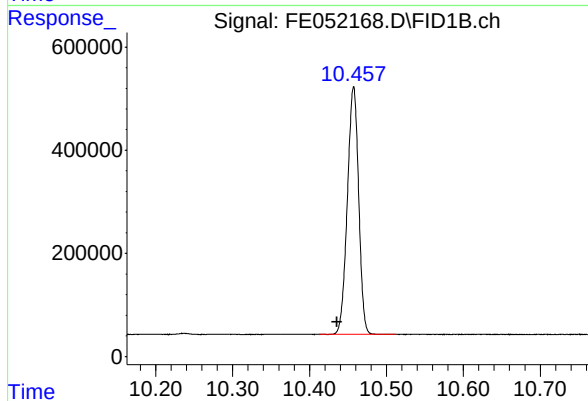
#3 N-DODECANE

R.T.: 7.061 min
Delta R.T.: 0.025 min
Response: 4628141
Conc: 46.32 ug/ml



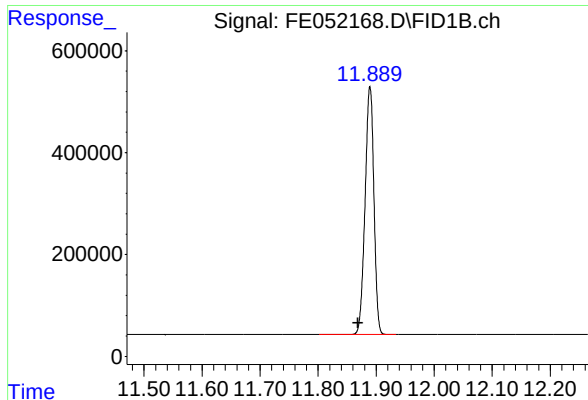
#4 N-TETRADECANE

R.T.: 8.865 min
Delta R.T.: 0.023 min
Response: 4676456
Conc: 45.96 ug/ml



#5 N-HEXADECANE

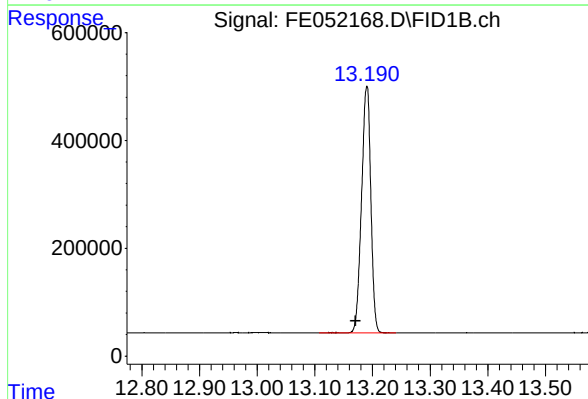
R.T.: 10.457 min
Delta R.T.: 0.022 min
Response: 4890327
Conc: 45.89 ug/ml



#6 N-OCTADECANE

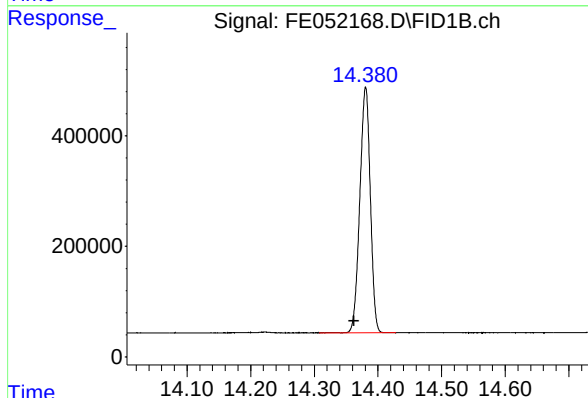
R.T.: 11.889 min
Delta R.T.: 0.020 min
Response: 5152055
Conc: 45.95 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD



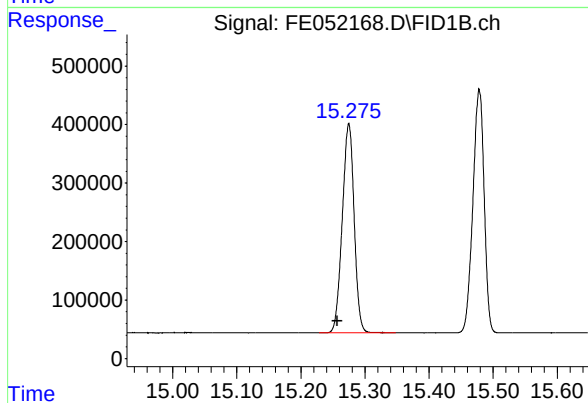
#7 N-EICOSANE

R.T.: 13.190 min
Delta R.T.: 0.019 min
Response: 5111168
Conc: 45.89 ug/ml



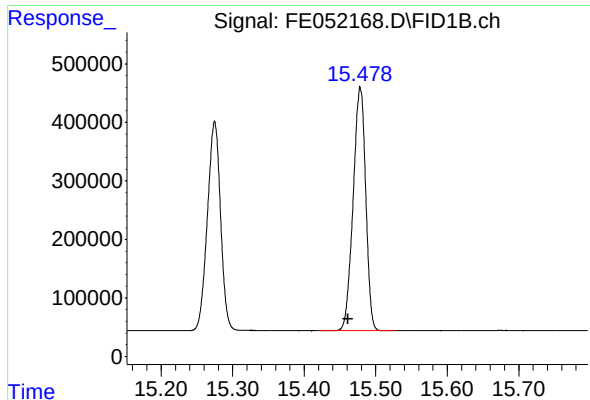
#8 N-DOCOSANE

R.T.: 14.381 min
Delta R.T.: 0.018 min
Response: 5088936
Conc: 45.83 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

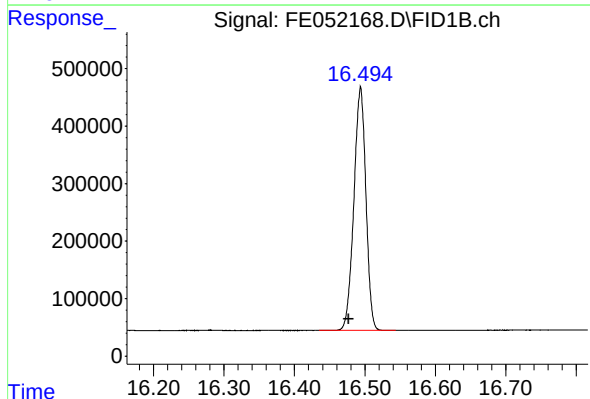
R.T.: 15.275 min
Delta R.T.: 0.018 min
Response: 4578853
Conc: 45.97 ug/ml



#10 N-TETRACOSANE

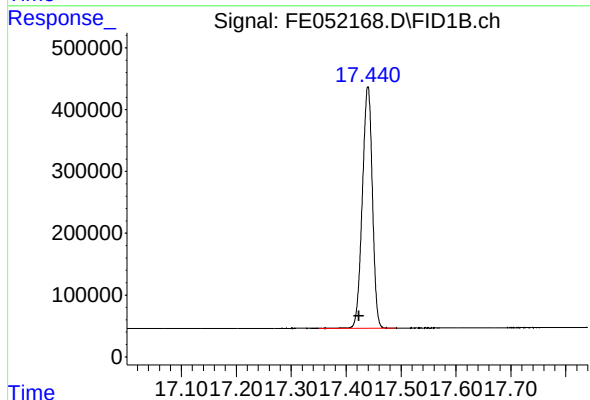
R.T.: 15.479 min
Delta R.T.: 0.017 min
Response: 5083452
Conc: 45.96 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.494 min
Delta R.T.: 0.017 min
Response: 5012750
Conc: 45.98 ug/ml



#12 N-OCTACOSANE

R.T.: 17.440 min
Delta R.T.: 0.016 min
Response: 4966241
Conc: 46.01 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052168.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 10:26
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.934	4.895	4.982	BB	456654	4273136	82.94%	7.993%
2	7.061	7.019	7.118	BB	494802	4628141	89.83%	8.657%
3	8.865	8.812	8.914	BB	482694	4676456	90.77%	8.747%
4	10.457	10.412	10.512	BB	480202	4890327	94.92%	9.147%
5	11.889	11.802	11.934	BB	485820	5152055	100.00%	9.637%
6	13.190	13.107	13.241	BB	457572	5111168	99.21%	9.560%
7	14.381	14.307	14.428	BB	444784	5088936	98.77%	9.519%
8	15.275	15.228	15.348	BV	358328	4578853	88.87%	8.565%
9	15.479	15.421	15.528	BB	416344	5083452	98.67%	9.509%
10	16.494	16.435	16.544	BB	424362	5012750	97.30%	9.376%
11	17.440	17.351	17.491	BB	389525	4966241	96.39%	9.289%
Sum of corrected areas:						53461515		

FE012325.M Mon Feb 03 02:02:42 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01
ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235
DataFile: FE052180.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	46710313	93421	106182	12.018

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052180.D
 Signal(s) : FID1B.ch
 Acq On : 31 Jan 2025 16:40
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 01:35:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 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...	15.299	4338284	43.558 ug/mlm
Target Compounds			
2) N-DECANE	4.966	4142020	45.266 ug/ml
3) N-DODECANE	7.091	4467752	44.715 ug/ml
4) N-TETRADECANE	8.893	4500991	44.237 ug/ml
5) N-HEXADECANE	10.485	4687325	43.988 ug/ml
6) N-OCTADECANE	11.916	4920557	43.886 ug/ml
7) N-EICOSANE	13.216	4863865	43.669 ug/ml
8) N-DOCOSANE	14.407	4819958	43.411 ug/ml
10) N-TETRACOSANE	15.504	4835161	43.713 ug/ml
11) N-HEXACOSANE	16.518	4750373	43.578 ug/ml
12) N-OCTACOSANE	17.464	4722311	43.750 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052180.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:40
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

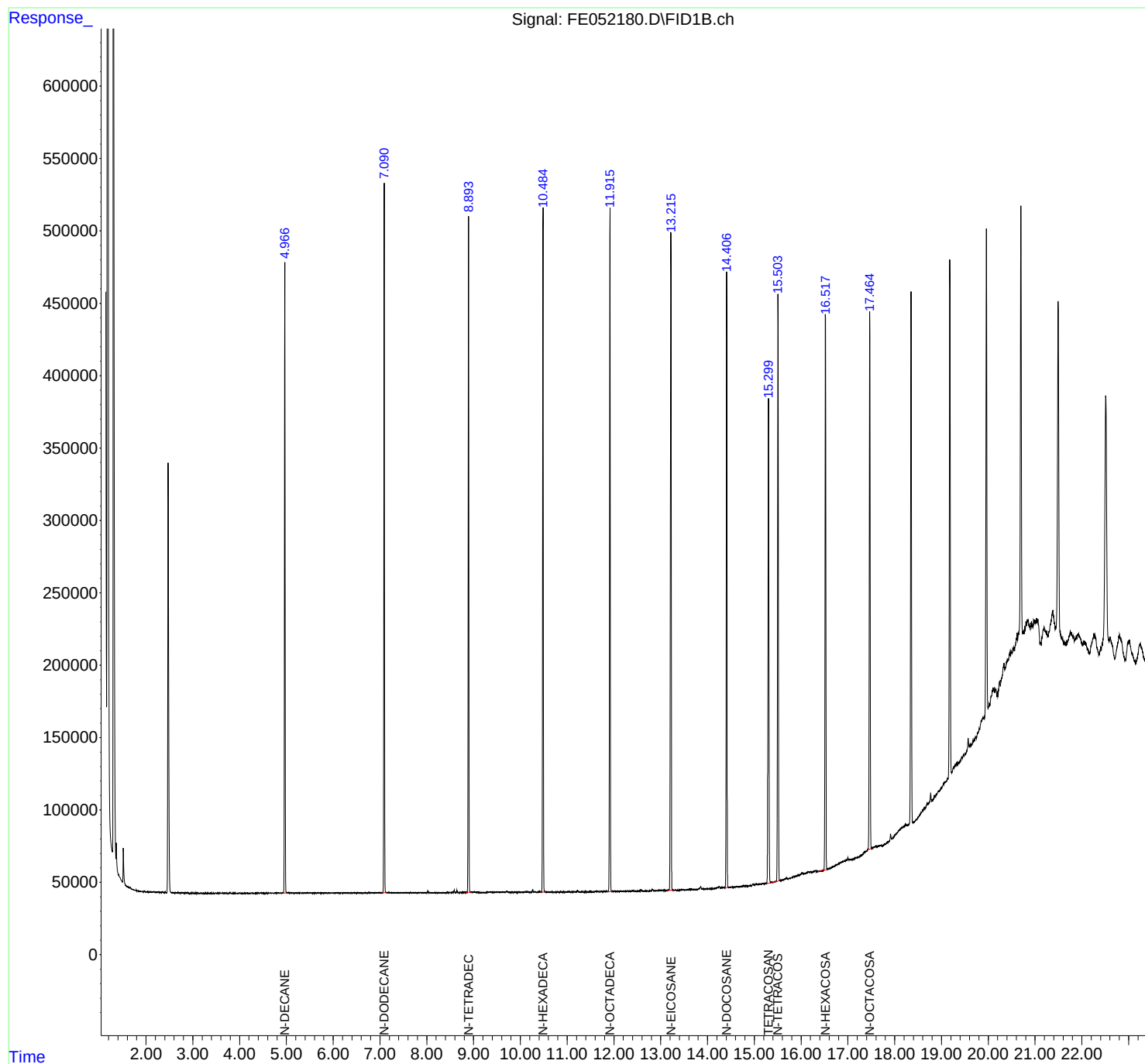
Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

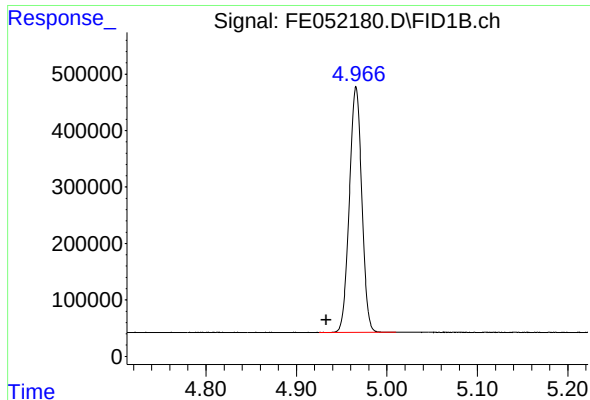
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:35:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#2 N-DECANE

R.T.: 4.966 min
Delta R.T.: 0.033 min
Response: 4142020
Conc: 45.27 ug/ml

Instrument :

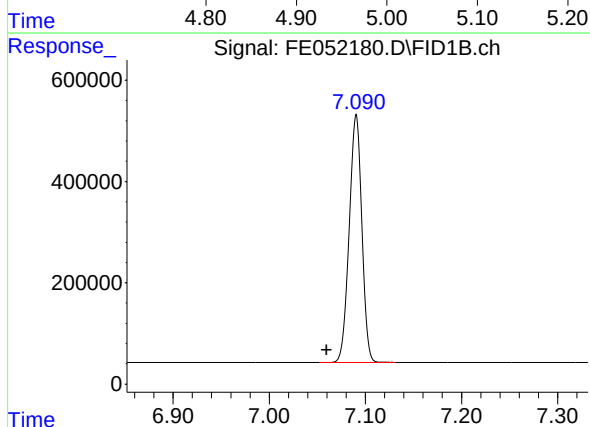
FID_E

ClientSampleId :

50 PPM TRPH STD

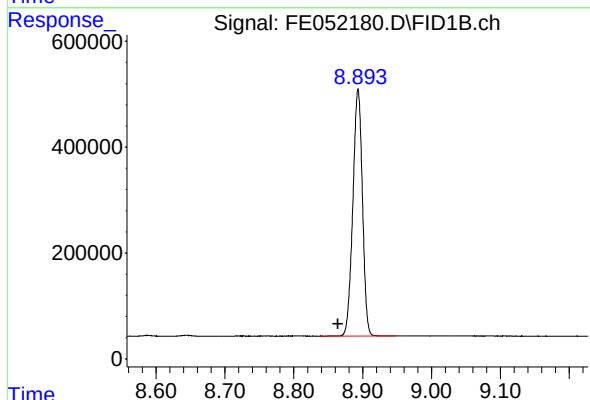
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



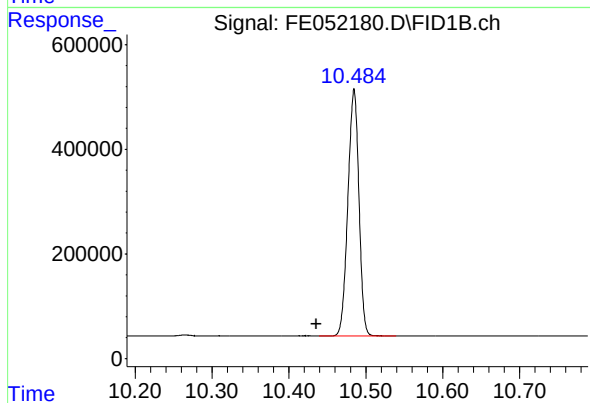
#3 N-DODECANE

R.T.: 7.091 min
Delta R.T.: 0.031 min
Response: 4467752
Conc: 44.72 ug/ml



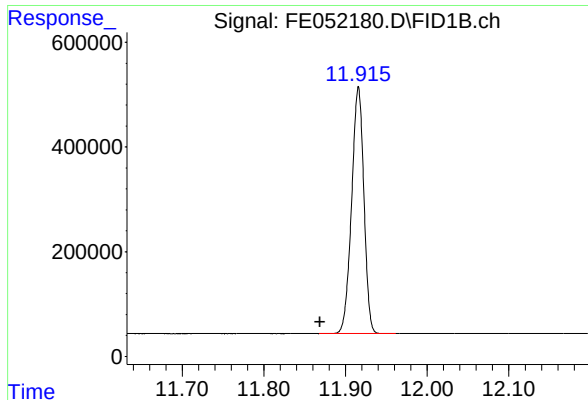
#4 N-TETRADECANE

R.T.: 8.893 min
Delta R.T.: 0.029 min
Response: 4500991
Conc: 44.24 ug/ml



#5 N-HEXADECANE

R.T.: 10.485 min
Delta R.T.: 0.049 min
Response: 4687325
Conc: 43.99 ug/ml



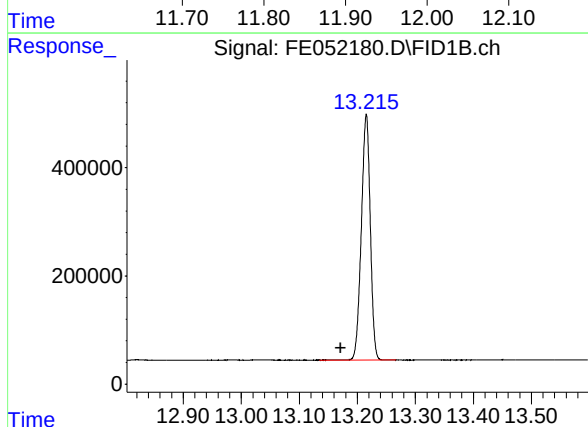
#6 N-OCTADECANE

R.T.: 11.916 min
Delta R.T.: 0.047 min
Response: 4920557
Conc: 43.89 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

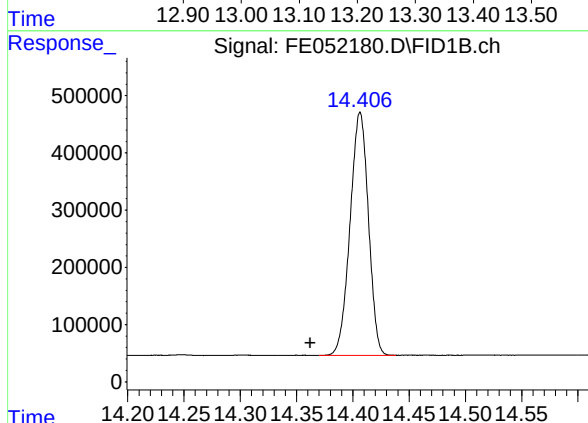
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



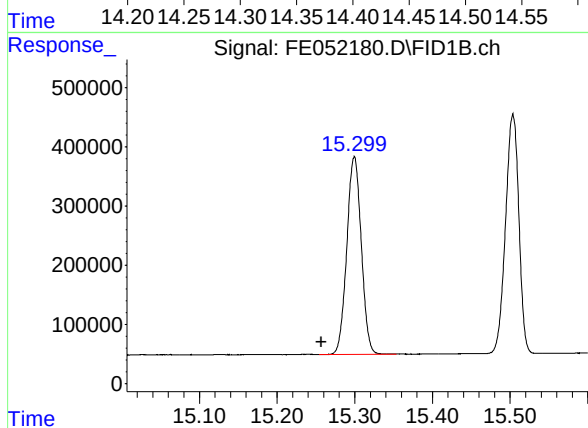
#7 N-EICOSANE

R.T.: 13.216 min
Delta R.T.: 0.045 min
Response: 4863865
Conc: 43.67 ug/ml



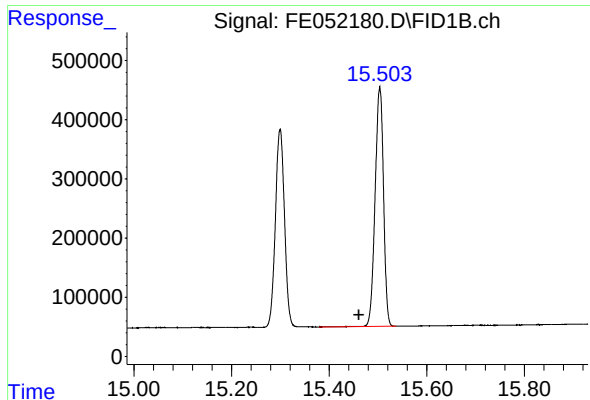
#8 N-DOCOSANE

R.T.: 14.407 min
Delta R.T.: 0.044 min
Response: 4819958
Conc: 43.41 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.299 min
Delta R.T.: 0.042 min
Response: 4338284
Conc: 43.56 ug/ml m



#10 N-TETRACOSANE

R.T.: 15.504 min
Delta R.T.: 0.043 min
Response: 4835161
Conc: 43.71 ug/ml

Instrument :

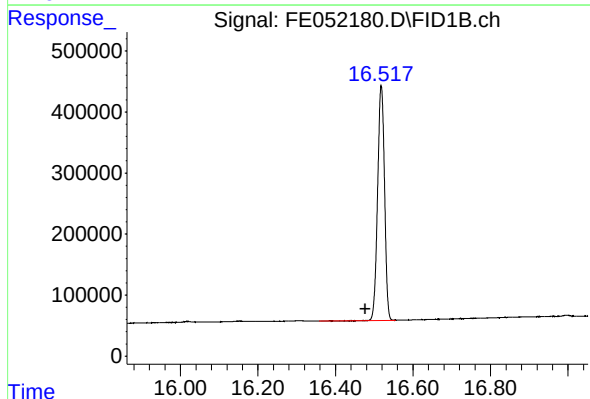
FID_E

ClientSampleId :

50 PPM TRPH STD

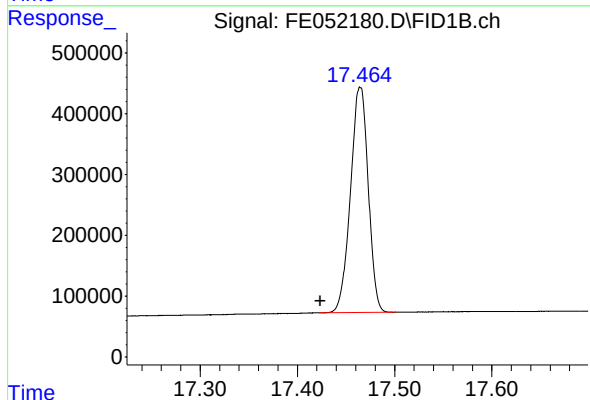
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.518 min
Delta R.T.: 0.041 min
Response: 4750373
Conc: 43.58 ug/ml



#12 N-OCTACOSANE

R.T.: 17.464 min
Delta R.T.: 0.040 min
Response: 4722311
Conc: 43.75 ug/ml m

rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052180.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:40
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.966	4.925	5.010	BB	435252	4142020	84.18%	8.108%
2	7.091	7.052	7.132	BB	489980	4467752	90.80%	8.746%
3	8.893	8.837	8.948	BB	466717	4500991	91.47%	8.811%
4	10.485	10.439	10.539	BB	472426	4687325	95.26%	9.176%
5	11.916	11.867	11.962	BB	472102	4920557	100.00%	9.632%
6	13.216	13.134	13.267	BB	454165	4863865	98.85%	9.521%
7	14.407	14.370	14.438	PB	425472	4819958	97.96%	9.435%
8	15.300	15.141	15.375	BB	333995	4340391	88.21%	8.497%
9	15.504	15.379	15.537	BB	404444	4835161	98.26%	9.465%
10	16.518	16.357	16.556	BV	382436	4750373	96.54%	9.299%
11	17.465	17.069	17.499	BV	370977	4754852	96.63%	9.308%
Sum of corrected areas:						51083244		

FE012325.M Mon Feb 03 02:06:20 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01
 ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235
 DataFile: FE052190.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	47002499	94005	106182	11.468

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052190.D
 Signal(s) : FID1B.ch
 Acq On : 31 Jan 2025 22:12
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 01:36:59 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 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...	15.300	4365755	43.833 ug/ml
Target Compounds			
2) N-DECANE	4.963	4159030	45.452 ug/ml
3) N-DODECANE	7.088	4494120	44.979 ug/ml
4) N-TETRADECANE	8.892	4533699	44.558 ug/ml
5) N-HEXADECANE	10.483	4731275	44.401 ug/ml
6) N-OCTADECANE	11.914	4963662	44.270 ug/ml
7) N-EICOSANE	13.215	4892146	43.923 ug/ml
8) N-DOCOSANE	14.406	4844018	43.628 ug/ml
10) N-TETRACOSANE	15.503	4865994	43.992 ug/ml
11) N-HEXACOSANE	16.518	4778892	43.839 ug/ml
12) N-OCTACOSANE	17.462	4739663	43.910 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052190.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 22:12
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

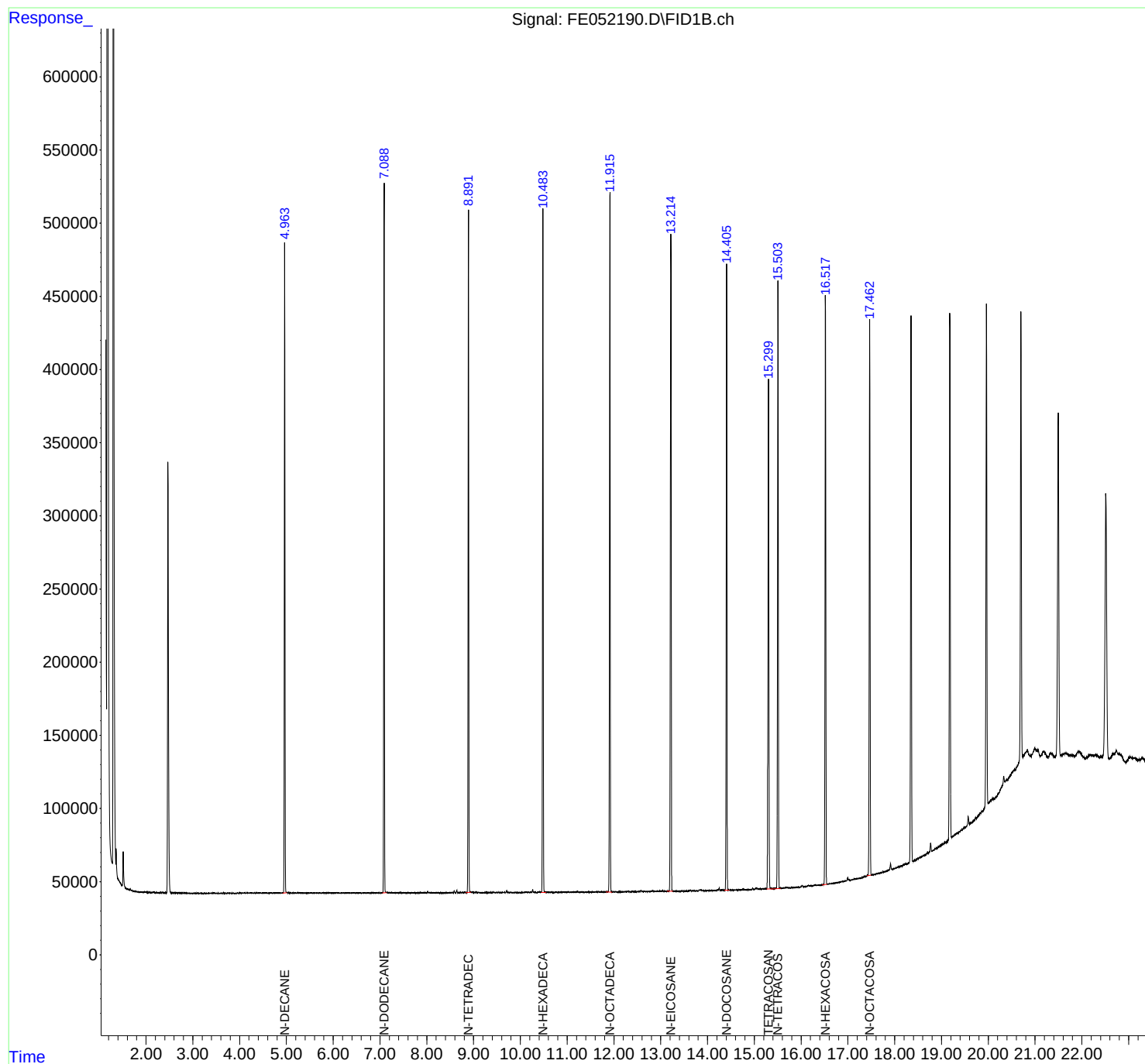
Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

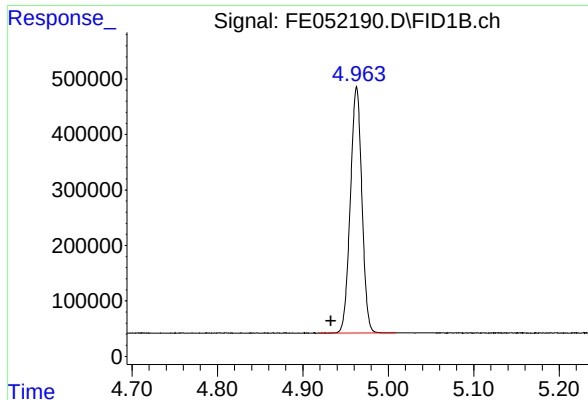
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:36:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#2 N-DECANE

R.T.: 4.963 min
Delta R.T.: 0.030 min
Response: 4159030
Conc: 45.45 ug/ml

Instrument :

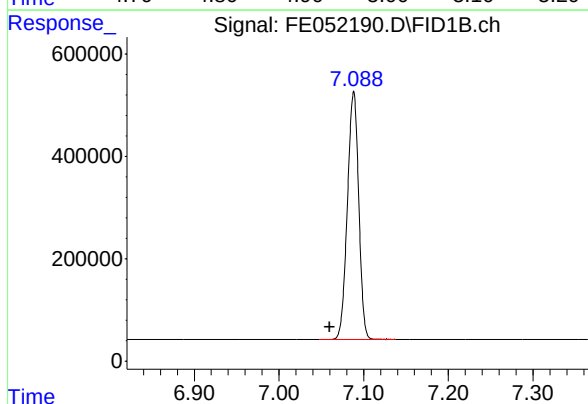
FID_E

ClientSampleId :

50 PPM TRPH STD

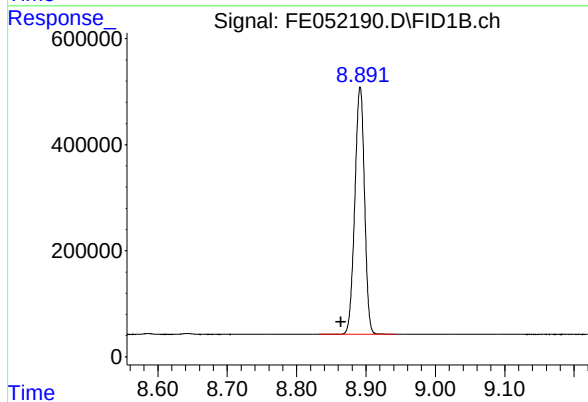
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



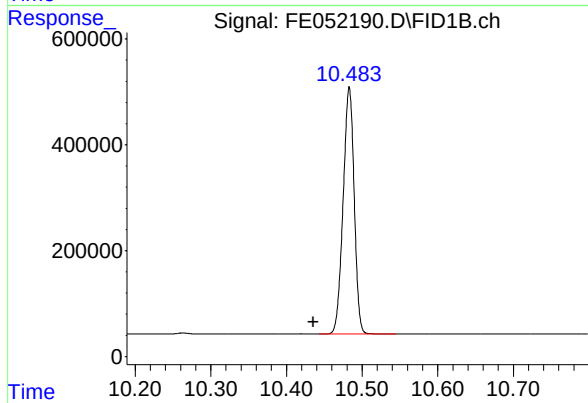
#3 N-DODECANE

R.T.: 7.088 min
Delta R.T.: 0.028 min
Response: 4494120
Conc: 44.98 ug/ml



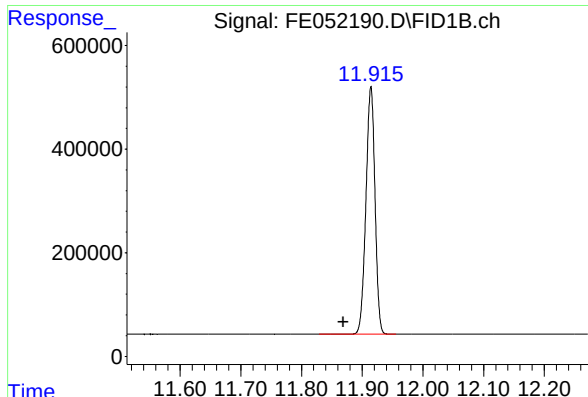
#4 N-TETRADECANE

R.T.: 8.892 min
Delta R.T.: 0.028 min
Response: 4533699
Conc: 44.56 ug/ml



#5 N-HEXADECANE

R.T.: 10.483 min
Delta R.T.: 0.048 min
Response: 4731275
Conc: 44.40 ug/ml



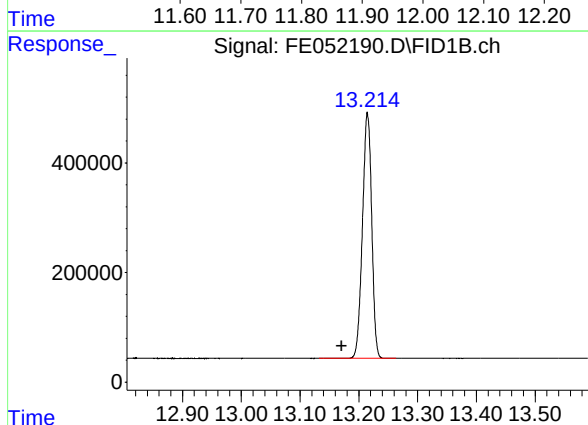
#6 N-OCTADECANE

R.T.: 11.914 min
Delta R.T.: 0.045 min
Response: 4963662
Conc: 44.27 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

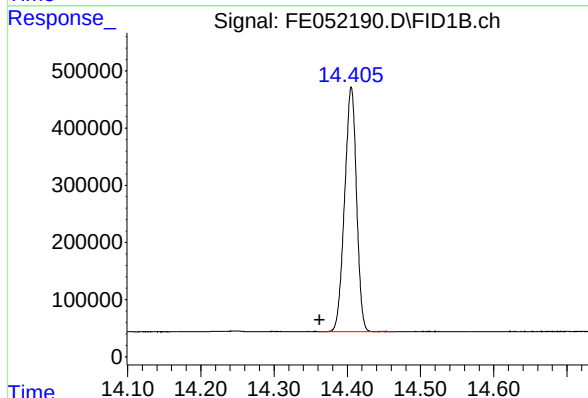
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



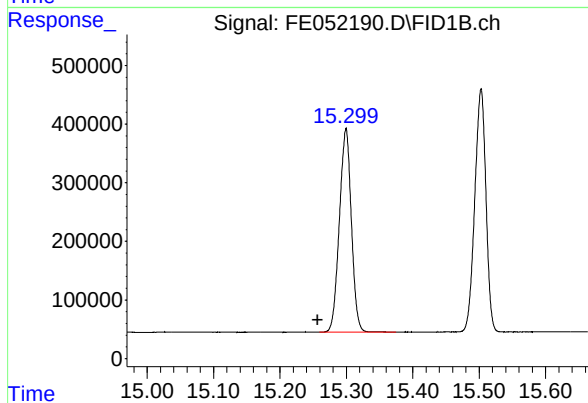
#7 N-EICOSANE

R.T.: 13.215 min
Delta R.T.: 0.044 min
Response: 4892146
Conc: 43.92 ug/ml



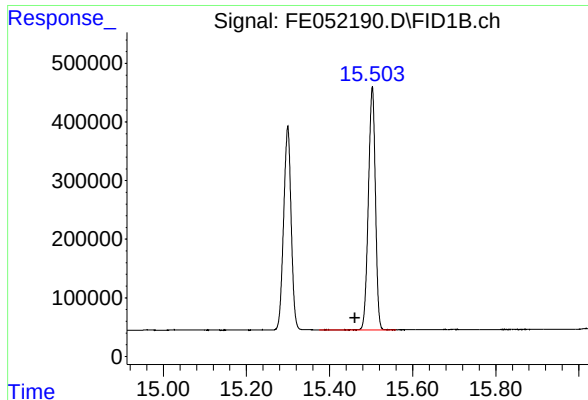
#8 N-DOCOSANE

R.T.: 14.406 min
Delta R.T.: 0.043 min
Response: 4844018
Conc: 43.63 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.300 min
Delta R.T.: 0.043 min
Response: 4365755
Conc: 43.83 ug/ml



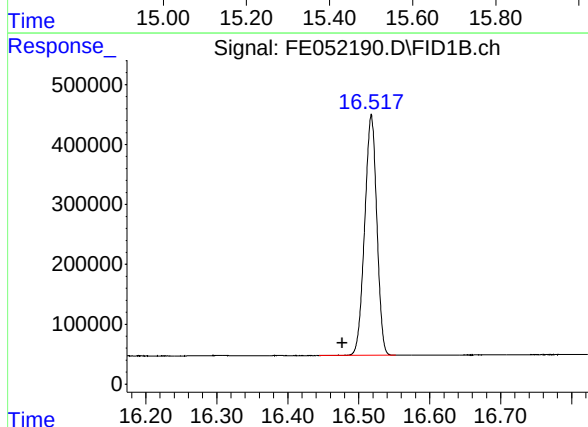
#10 N-TETRACOSANE

R.T.: 15.503 min
Delta R.T.: 0.042 min
Response: 4865994
Conc: 43.99 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

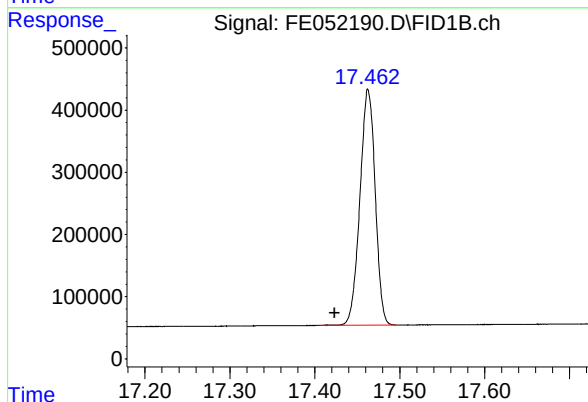
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.518 min
Delta R.T.: 0.041 min
Response: 4778892
Conc: 43.84 ug/ml



#12 N-OCTACOSANE

R.T.: 17.462 min
Delta R.T.: 0.038 min
Response: 4739663
Conc: 43.91 ug/ml m

rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052190.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 22:12
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.963	4.919	5.009	BB	444623	4159030	83.79%	8.099%
2	7.088	7.047	7.138	BB	484231	4494120	90.54%	8.751%
3	8.892	8.832	8.943	BB	466689	4533699	91.34%	8.828%
4	10.483	10.443	10.545	BB	467195	4731275	95.32%	9.213%
5	11.914	11.829	11.956	BV	478751	4963662	100.00%	9.665%
6	13.215	13.132	13.263	BB	447007	4892146	98.56%	9.526%
7	14.406	14.361	14.466	BB	427712	4844018	97.59%	9.432%
8	15.300	15.259	15.375	BV	348585	4365755	87.95%	8.501%
9	15.503	15.375	15.560	PB	415200	4865994	98.03%	9.475%
10	16.518	16.444	16.552	BB	402585	4778892	96.28%	9.306%
11	17.463	17.044	17.501	BB	378377	4726578	95.22%	9.204%
Sum of corrected areas:						51355168		

FE012325.M Mon Feb 03 02:07:35 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01
 ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235
 DataFile: FG015283.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70835484	141671	140262	1.005

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
 Data File : FG015283.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 16:17
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 01 01:16:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 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...	15.069	6434170	50.160 ug/ml
Target Compounds			
2) N-DECANE	4.550	6845031	52.991 ug/ml
3) N-DODECANE	6.735	7102993	52.137 ug/ml
4) N-TETRADECANE	8.574	7092897	51.824 ug/ml
5) N-HEXADECANE	10.191	7206608	51.070 ug/ml
6) N-OCTADECANE	11.642	7372867	50.263 ug/ml
7) N-EICOSANE	12.960	7307969	50.266 ug/ml
8) N-DOCOSANE	14.165	7094223	49.450 ug/ml
10) N-TETRACOSANE	15.275	7024640	49.183 ug/ml
11) N-HEXACOSANE	16.300	6886344	48.895 ug/mlm
12) N-OCTACOSANE	17.255	6901912	49.288 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015283.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 16:17
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

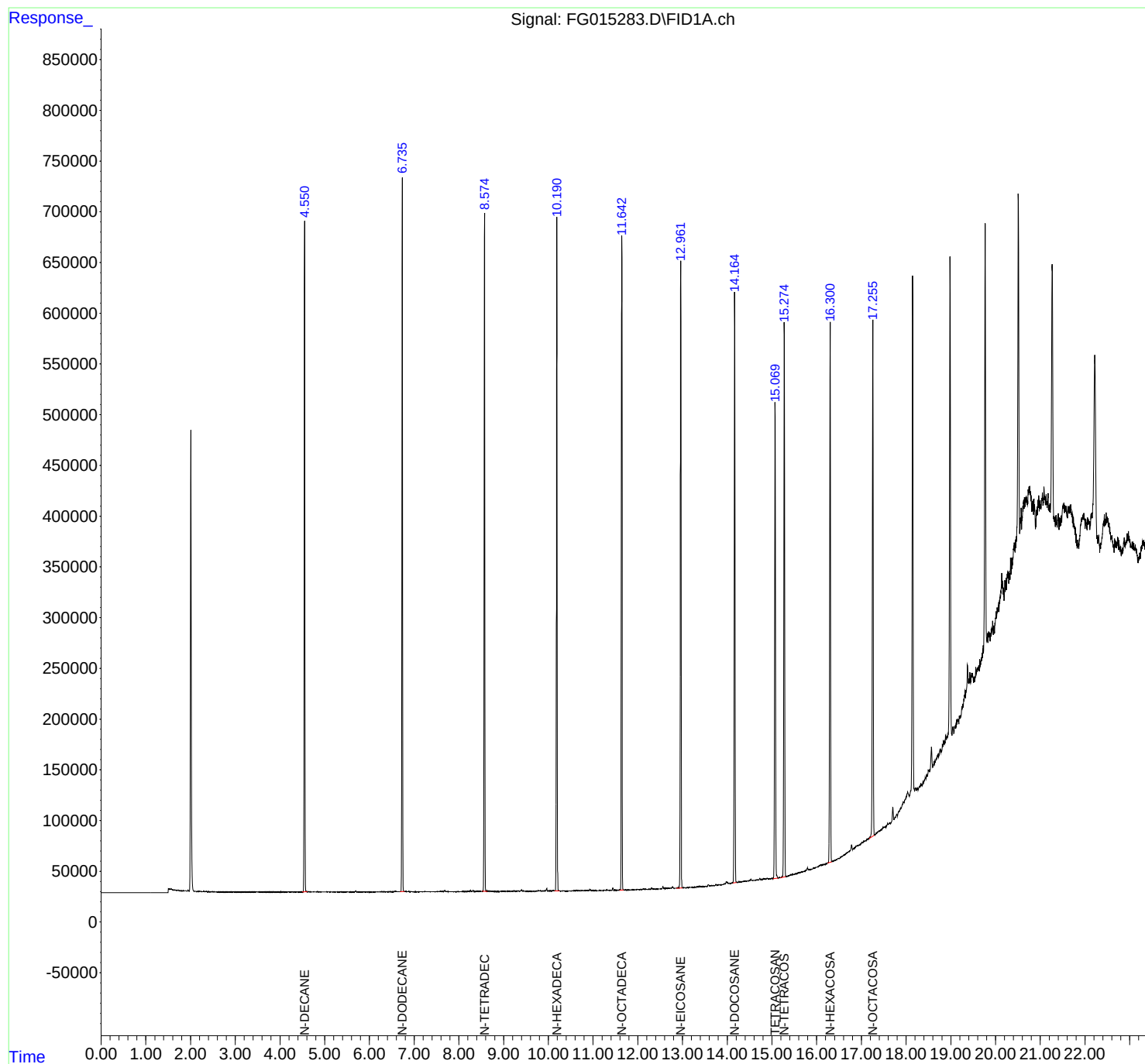
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

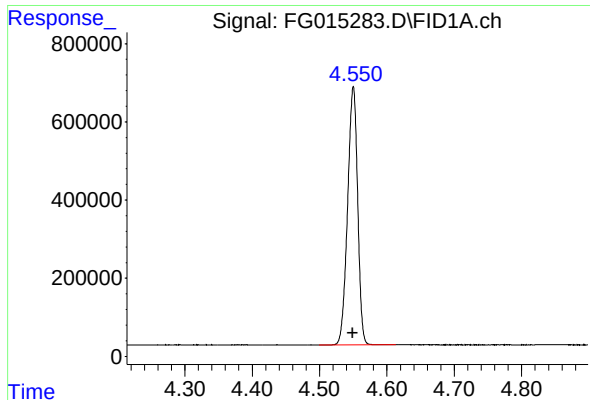
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 01 01:16:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
Qlast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#2 N-DECANE

R.T.: 4.550 min
Delta R.T.: 0.000 min
Response: 6845031
Conc: 52.99 ug/ml

Instrument :

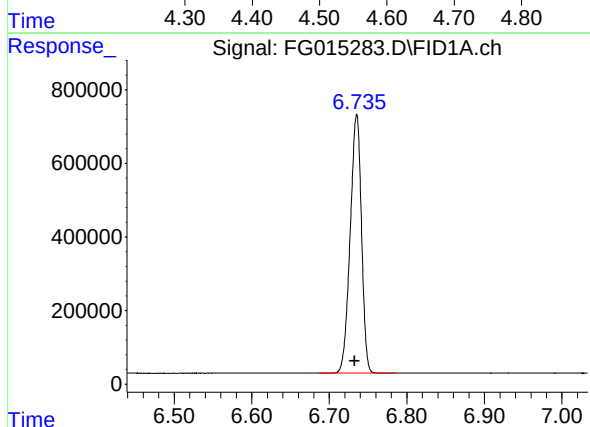
FID_G

ClientSampleId :

50 PPM TRPH STD

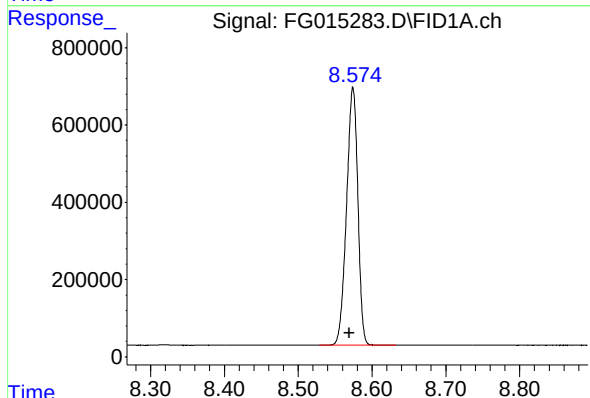
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



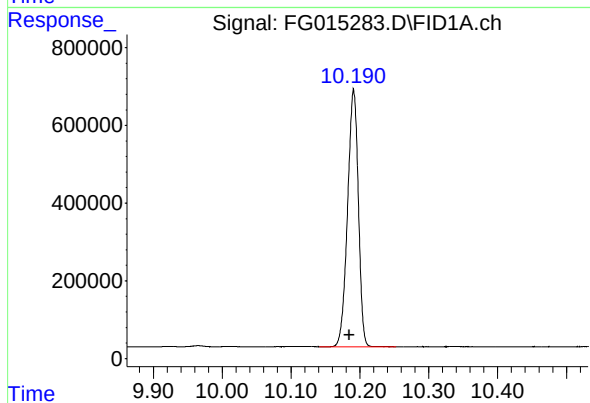
#3 N-DODECANE

R.T.: 6.735 min
Delta R.T.: 0.003 min
Response: 7102993
Conc: 52.14 ug/ml



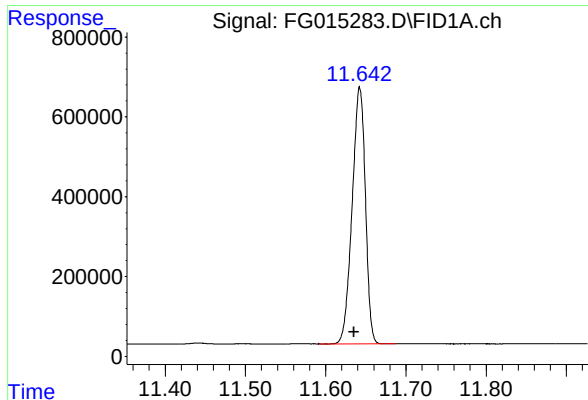
#4 N-TETRADECANE

R.T.: 8.574 min
Delta R.T.: 0.005 min
Response: 7092897
Conc: 51.82 ug/ml



#5 N-HEXADECANE

R.T.: 10.191 min
Delta R.T.: 0.007 min
Response: 7206608
Conc: 51.07 ug/ml



#6 N-OCTADECANE

R.T.: 11.642 min
Delta R.T.: 0.007 min
Response: 7372867
Conc: 50.26 ug/ml

Instrument :

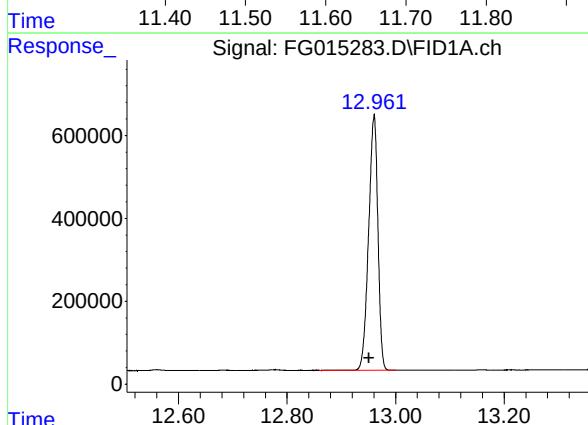
FID_G

ClientSampleId :

50 PPM TRPH STD

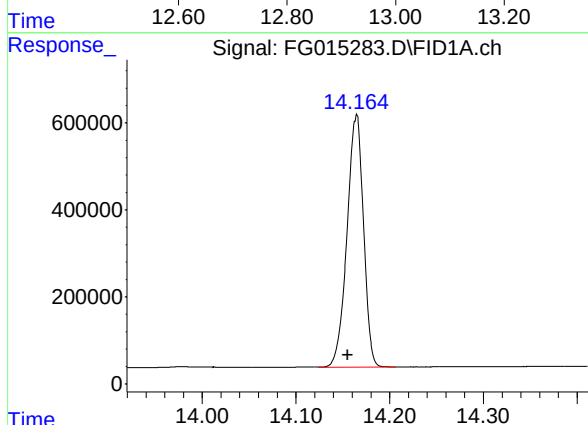
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



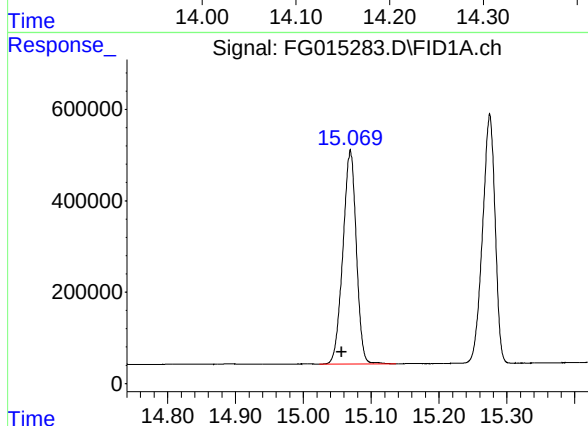
#7 N-EICOSANE

R.T.: 12.960 min
Delta R.T.: 0.010 min
Response: 7307969
Conc: 50.27 ug/ml



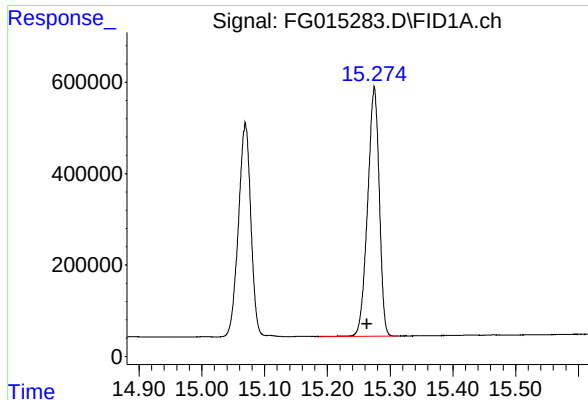
#8 N-DOCOSANE

R.T.: 14.165 min
Delta R.T.: 0.010 min
Response: 7094223
Conc: 49.45 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.069 min
Delta R.T.: 0.013 min
Response: 6434170
Conc: 50.16 ug/ml



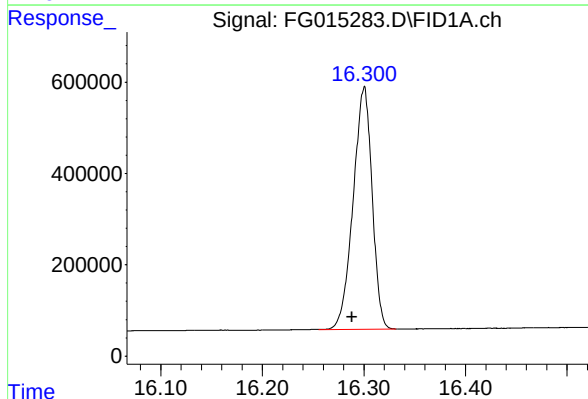
#10 N-TETRACOSANE

R.T.: 15.275 min
Delta R.T.: 0.012 min
Response: 7024640
Conc: 49.18 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

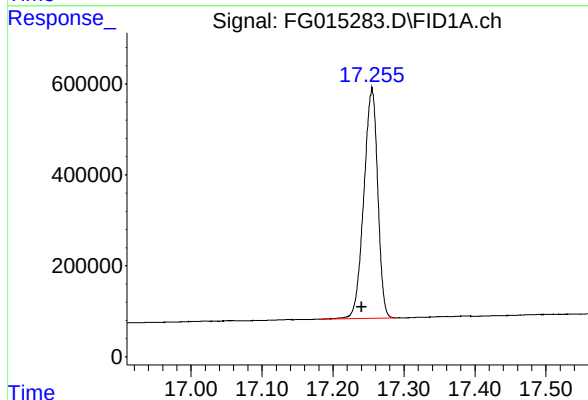
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.300 min
Delta R.T.: 0.012 min
Response: 6886344
Conc: 48.89 ug/ml



#12 N-OCTACOSANE

R.T.: 17.255 min
Delta R.T.: 0.014 min
Response: 6901912
Conc: 49.29 ug/ml

rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG01312
Data File : FG015283.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 16:17
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.550	4.499	4.613	BB	661355	6845031	92.84%	8.857%
2	6.735	6.687	6.786	BB	702454	7102993	96.34%	9.191%
3	8.574	8.528	8.633	BB	667384	7092897	96.20%	9.178%
4	10.191	10.141	10.253	BB	661858	7206608	97.74%	9.325%
5	11.642	11.592	11.688	BB	642047	7372867	100.00%	9.540%
6	12.960	12.859	13.001	BV	618431	7307969	99.12%	9.456%
7	14.165	14.125	14.207	PB	581610	7094223	96.22%	9.180%
8	15.069	15.023	15.137	PV	468619	6434170	87.27%	8.326%
9	15.275	15.187	15.309	BV	545427	7024640	95.28%	9.090%
10	16.300	15.826	16.334	PV	530319	6878052	93.29%	8.900%
11	17.255	17.068	17.290	VV	507994	6921377	93.88%	8.956%
Sum of corrected areas:						77280827		

FG011325.M Sat Feb 01 02:07:44 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01
ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235
DataFile: FG015292.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70307909	140616	140262	0.252

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
 Data File : FG015292.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 22:27
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 01 01:19:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 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...	15.062	6376799	49.712 ug/ml
Target Compounds			
2) N-DECANE	4.546	6725488	52.066 ug/ml
3) N-DODECANE	6.731	7008982	51.447 ug/ml
4) N-TETRADECANE	8.569	7040566	51.441 ug/ml
5) N-HEXADECANE	10.185	7188437	50.941 ug/ml
6) N-OCTADECANE	11.637	7373136	50.264 ug/ml
7) N-EICOSANE	12.953	7300725	50.216 ug/ml
8) N-DOCOSANE	14.158	7076466	49.326 ug/ml
10) N-TETRACOSANE	15.267	6987489	48.923 ug/ml
11) N-HEXACOSANE	16.293	6841485	48.576 ug/ml
12) N-OCTACOSANE	17.244	6765135	48.311 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015292.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 22:27
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

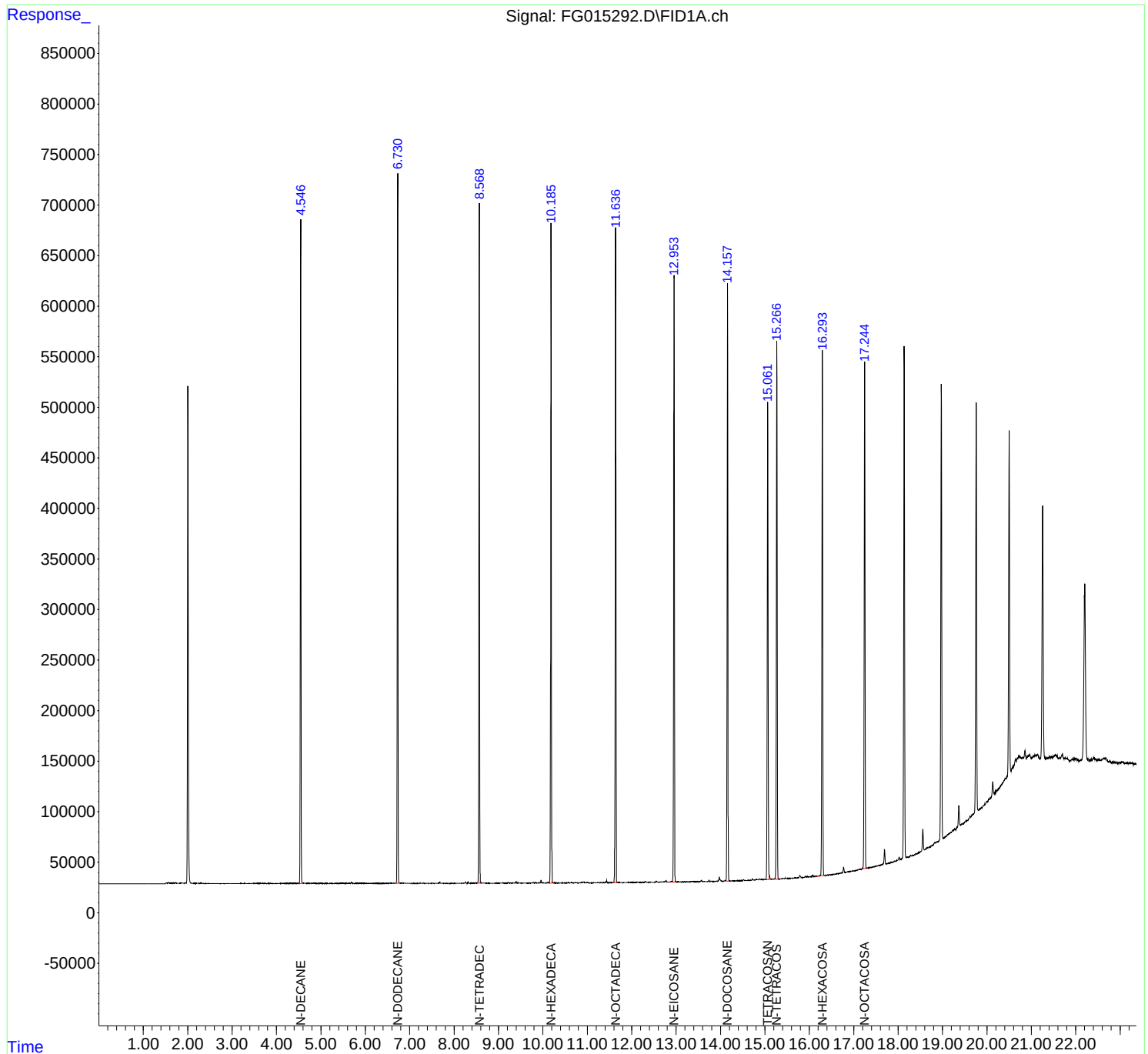
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

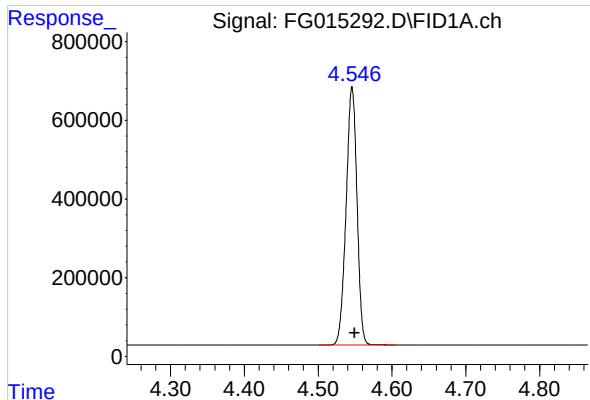
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 01 01:19:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





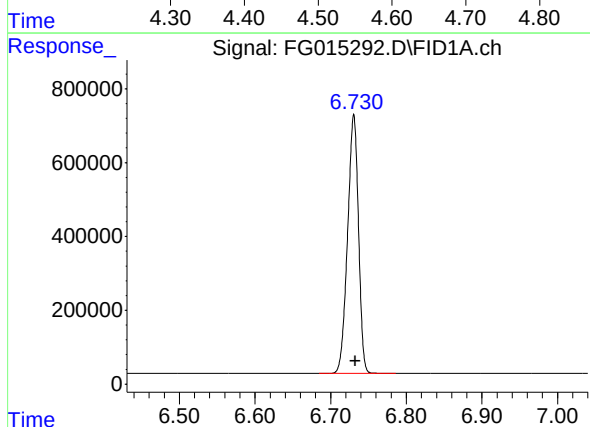
#2 N-DECANE

R.T.: 4.546 min
Delta R.T.: -0.003 min
Response: 6725488
Conc: 52.07 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

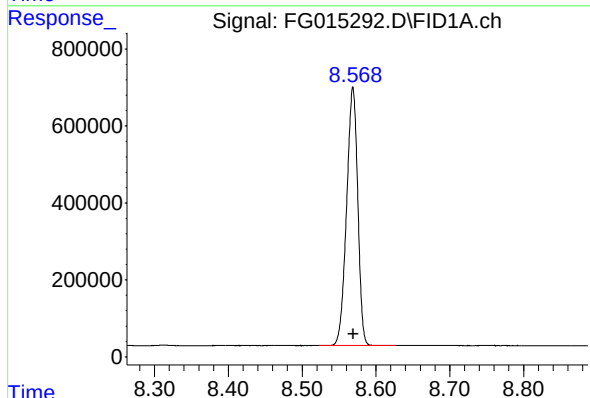
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



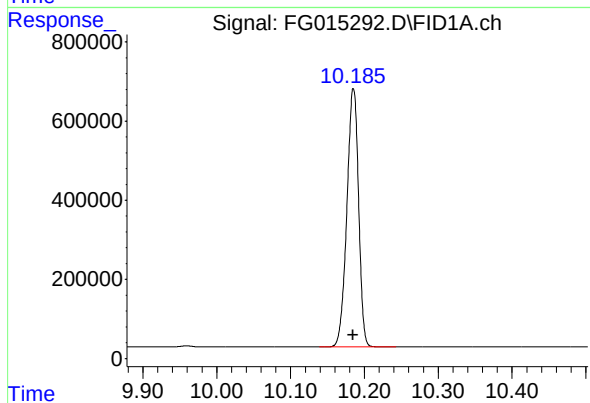
#3 N-DODECANE

R.T.: 6.731 min
Delta R.T.: -0.002 min
Response: 7008982
Conc: 51.45 ug/ml



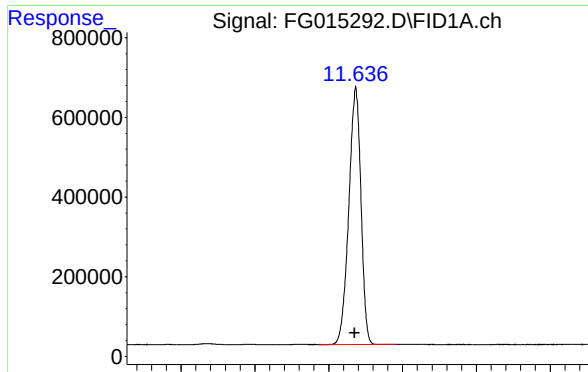
#4 N-TETRADECANE

R.T.: 8.569 min
Delta R.T.: 0.000 min
Response: 7040566
Conc: 51.44 ug/ml



#5 N-HEXADECANE

R.T.: 10.185 min
Delta R.T.: 0.000 min
Response: 7188437
Conc: 50.94 ug/ml



#6 N-OCTADECANE

R.T.: 11.637 min
Delta R.T.: 0.002 min
Response: 7373136
Conc: 50.26 ug/ml

Instrument :

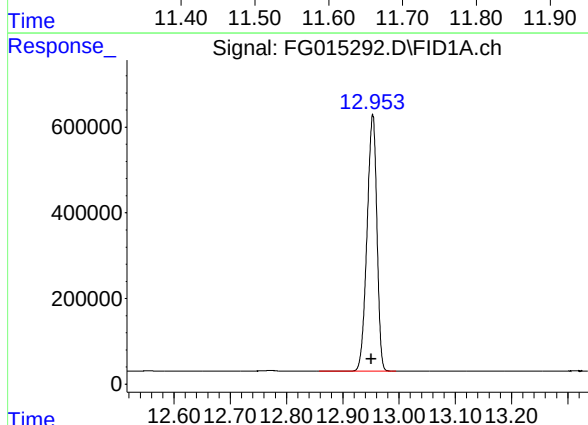
FID_G

ClientSampleId :

50 PPM TRPH STD

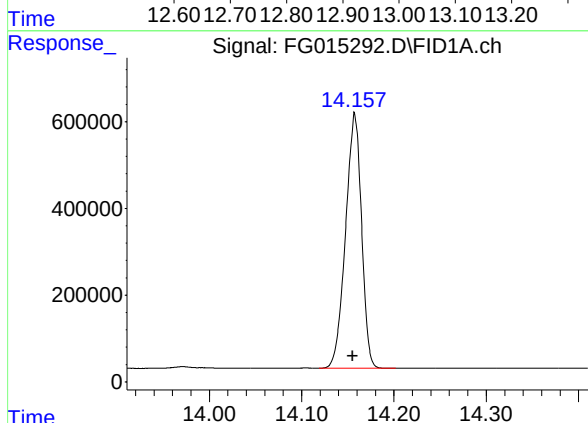
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



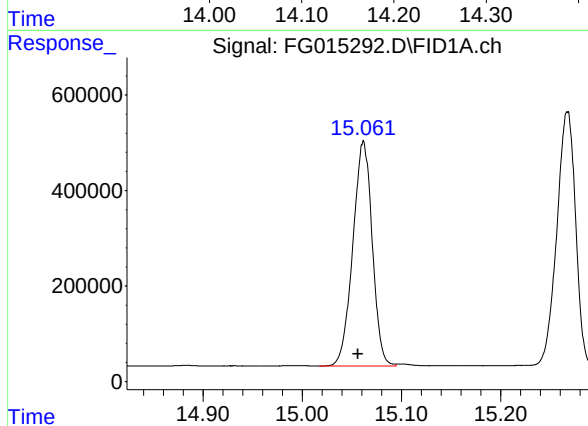
#7 N-EICOSANE

R.T.: 12.953 min
Delta R.T.: 0.002 min
Response: 7300725
Conc: 50.22 ug/ml



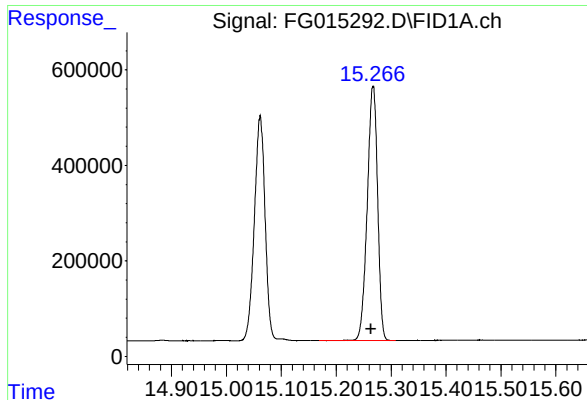
#8 N-DOCOSANE

R.T.: 14.158 min
Delta R.T.: 0.002 min
Response: 7076466
Conc: 49.33 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.062 min
Delta R.T.: 0.005 min
Response: 6376799
Conc: 49.71 ug/ml



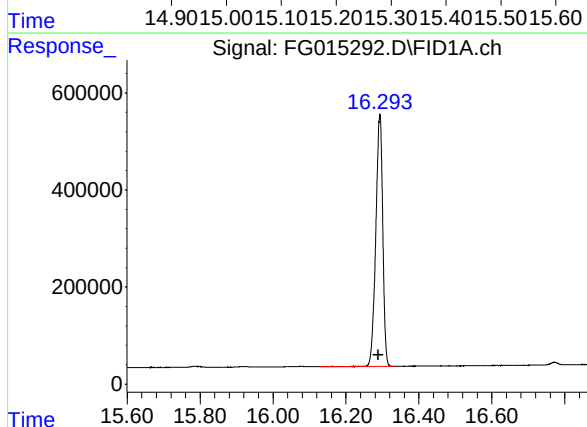
#10 N-TETRACOSANE

R.T.: 15.267 min
Delta R.T.: 0.004 min
Response: 6987489
Conc: 48.92 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

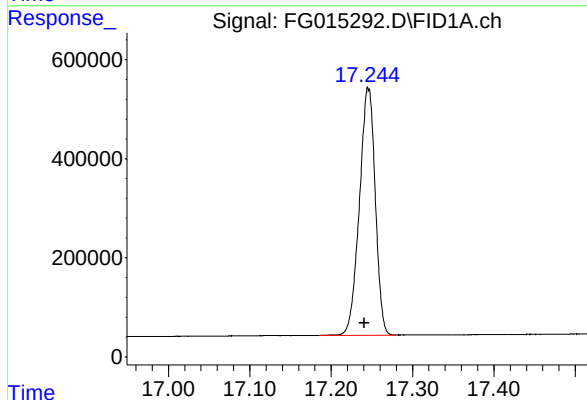
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.293 min
Delta R.T.: 0.005 min
Response: 6841485
Conc: 48.58 ug/ml



#12 N-OCTACOSANE

R.T.: 17.244 min
Delta R.T.: 0.004 min
Response: 6765135
Conc: 48.31 ug/ml m

rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG01312
Data File : FG015292.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 22:27
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.546	4.501	4.605	BB	656026	6725488	91.22%	8.771%
2	6.731	6.684	6.786	BB	702019	7008982	95.06%	9.141%
3	8.569	8.523	8.627	BB	672328	7040566	95.49%	9.182%
4	10.185	10.139	10.243	BB	652612	7188437	97.49%	9.375%
5	11.637	11.587	11.691	BB	647701	7373136	100.00%	9.615%
6	12.953	12.858	12.995	BV	597327	7300725	99.02%	9.521%
7	14.158	14.119	14.202	VB	586761	7076466	95.98%	9.229%
8	15.062	15.017	15.095	BV	472670	6376799	86.49%	8.316%
9	15.267	15.169	15.309	BB	531658	6987489	94.77%	9.112%
10	16.293	16.126	16.337	BB	518685	6841485	92.79%	8.922%
11	17.246	16.815	17.282	BB	497105	6760929	91.70%	8.817%
Sum of corrected areas:						76680501		

FG011325.M Sat Feb 01 02:10:07 2025

Analytical Sequence

Client: RU2 Engineering, LLC

SDG No.: Q1235

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

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 15.2554					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	31 Jan 2025 09:56	FE052167.D	15.274	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 10:26	FE052168.D	15.275	
PB166415BL	PB166415BL	31 Jan 2025 12:08	FE052171.D	15.271	
PB166415BS	PB166415BS	31 Jan 2025 12:38	FE052172.D	15.270	
PIBLK02	LBLK02	31 Jan 2025 16:09	FE052179.D	15.300	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 16:40	FE052180.D	15.300	
JPP-5.3-013025MS	Q1241-05MS	31 Jan 2025 17:10	FE052181.D	15.243	
JPP-5.3-013025MSD	Q1241-05MSD	31 Jan 2025 17:40	FE052182.D	15.248	
PIBLK03	LBLK03	31 Jan 2025 21:12	FE052189.D	15.299	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 22:12	FE052190.D	15.300	
PIBLK04	LBLK04	31 Jan 2025 15:48	FG015282.D	15.066	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 16:17	FG015283.D	15.069	
JPP-51.2-012925	Q1235-01	31 Jan 2025 20:33	FG015289.D	15.027	
JPP-16.1-012925	Q1235-05	31 Jan 2025 21:02	FG015290.D	15.010	
PIBLK05	LBLK05	31 Jan 2025 21:30	FG015291.D	15.058	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 22:27	FG015292.D	15.062	

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

QC Limits
(± 0.10 minutes)

Lower Limit
14.9514

Upper Limits
15.1514



QC SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166415BL	SDG No.:	Q1235
Lab Sample ID:	PB166415BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052171.D	1	01/31/25 08:50	01/31/25 12:08	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1670	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.4		37 - 130	87%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052171.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:08
Operator : YP\AJ
Sample : PB166415BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB166415BL

Integration File: autoint1.e
Quant Time: Feb 03 00:08:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
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...	15.271	1729476	17.364 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

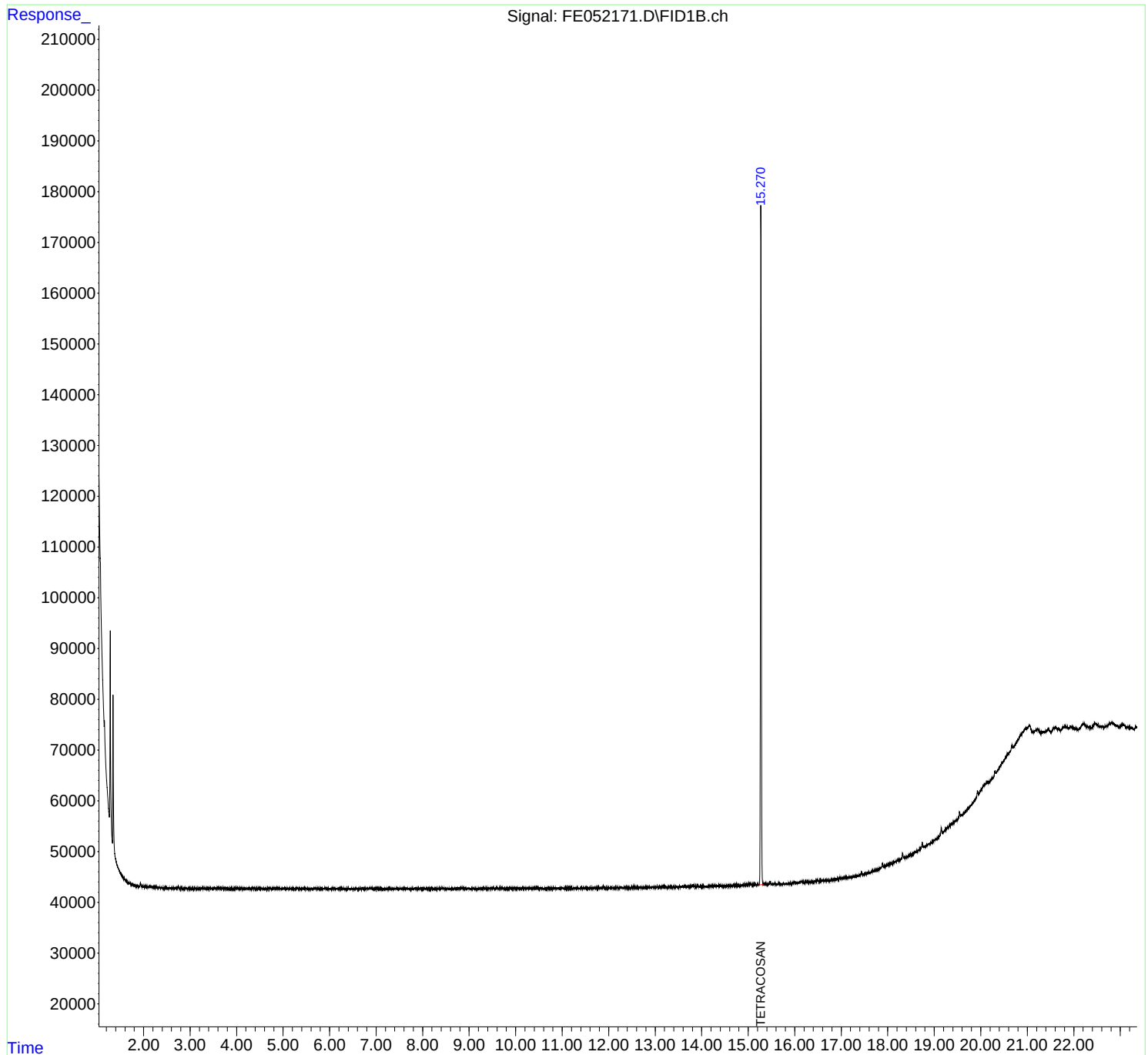
(m)=manual int.

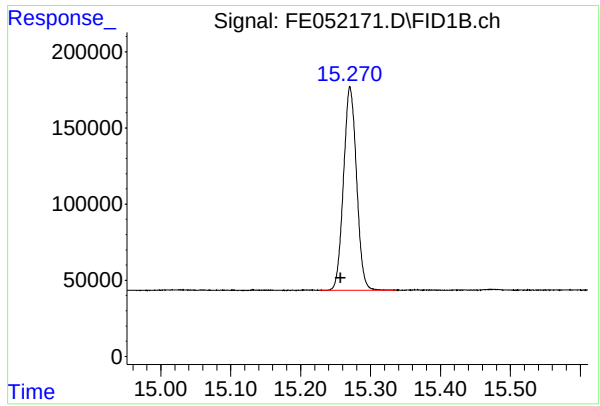
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052171.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:08
Operator : YP\AJ
Sample : PB166415BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB166415BL

Integration File: autoint1.e
Quant Time: Feb 03 00:08:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.271 min
Delta R.T.: 0.014 min
Response: 1729476
Conc: 17.36 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166415BL

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052171.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:08
Sample : PB166415BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.271	15.227	15.337	BB	133669	1729476	100.00%	100.000%
Sum of corrected areas:						1729476		

FE012325.M Mon Feb 03 02:04:36 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FE052167.D	SDG No.:	Q1235
Lab Sample ID:	I.BLK-FE052167.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052167.D	1		01/31/25	FE013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.1		29 - 130	90%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052167.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 09:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 00:07:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
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...	15.273	1801068	18.083 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052167.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 09:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

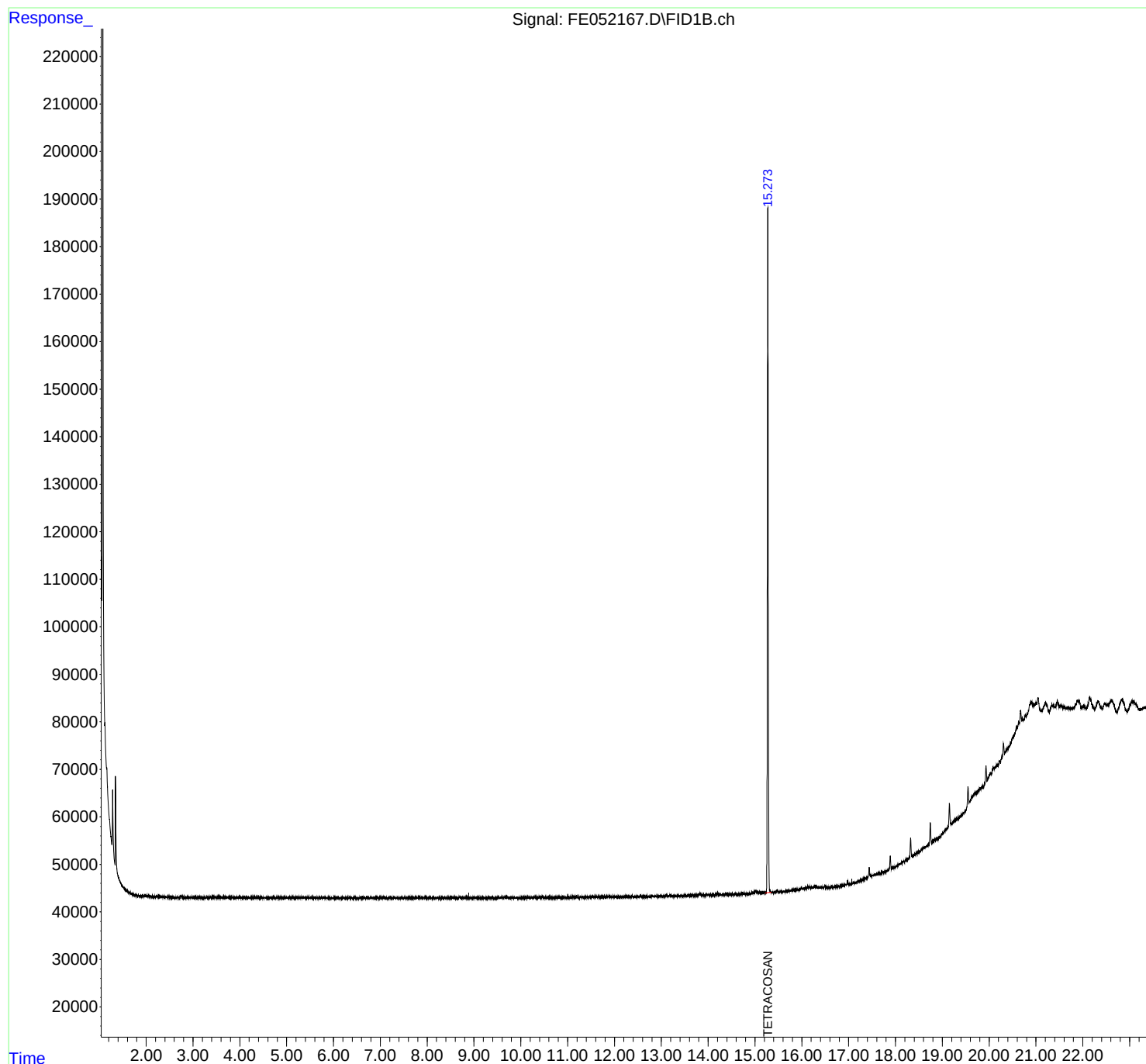
Instrument :
FID_E
ClientSampleId :
I.BLK

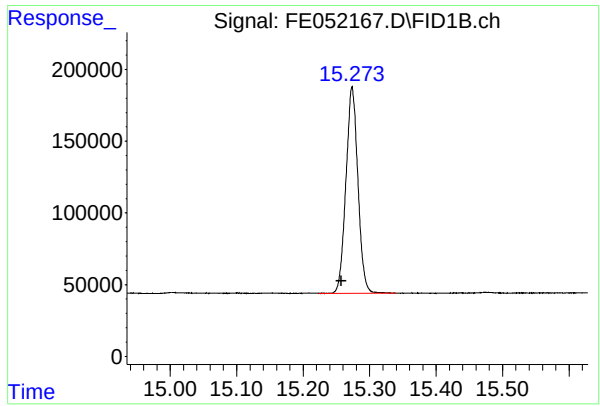
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 00:07:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.273 min
Delta R.T.: 0.017 min
Response: 1801068
Conc: 18.08 ug/ml

Instrument :

FID_E

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

rteres

Instrument :
FID_E
LabSampleId :
I.BLK

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052167.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 09:56
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.274	15.186	15.347	BB	143692	1808772	100.00%	100.000%
Sum of corrected areas:						1808772		

FE012325.M Mon Feb 03 02:01:24 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FE052179.D	SDG No.:	Q1235
Lab Sample ID:	I.BLK-FE052179.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052179.D	1		01/31/25	FE013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.3		29 - 130	82%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052179.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:09
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:11:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
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...	15.300	1626036	16.326 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

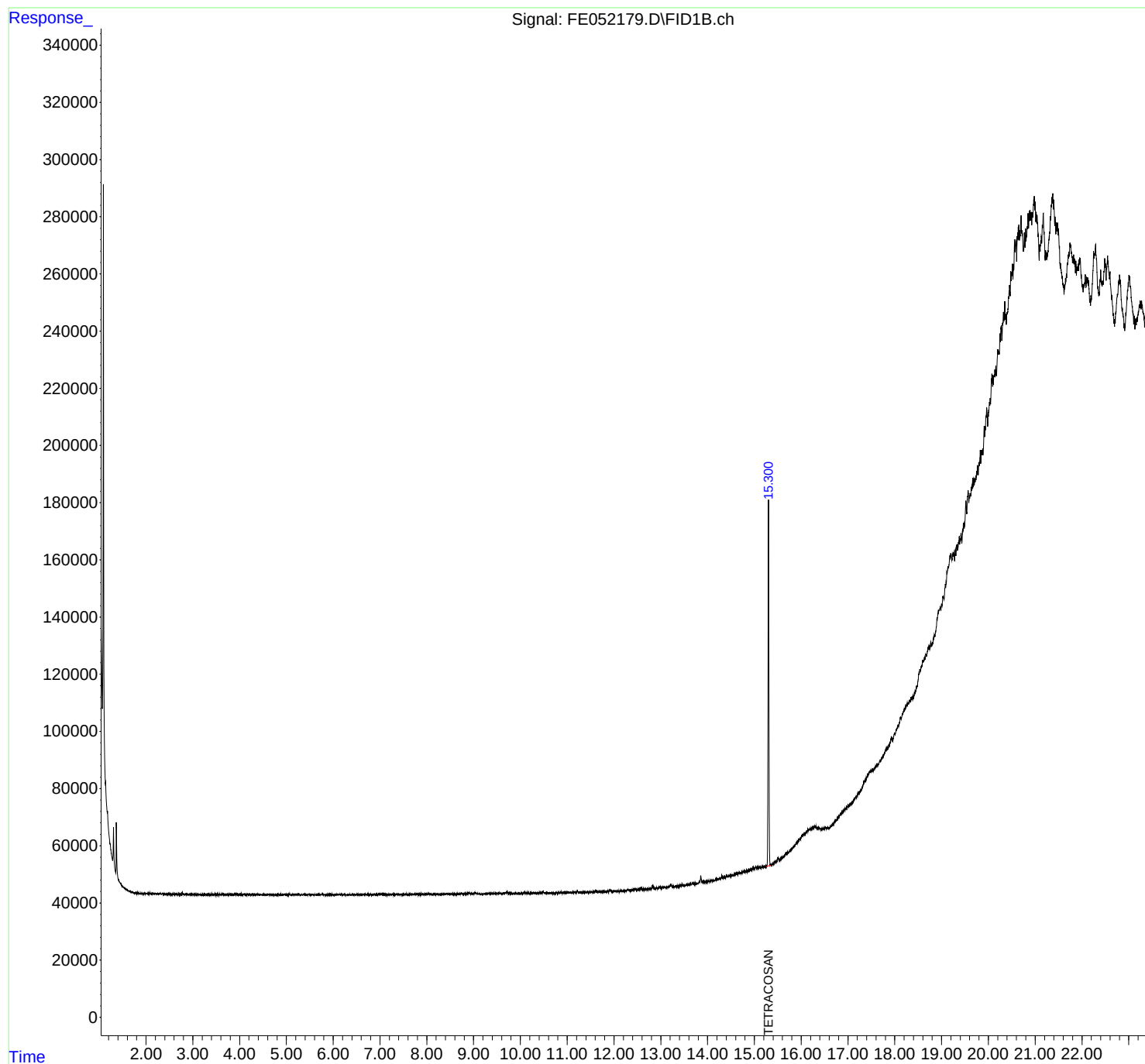
(m)=manual int.

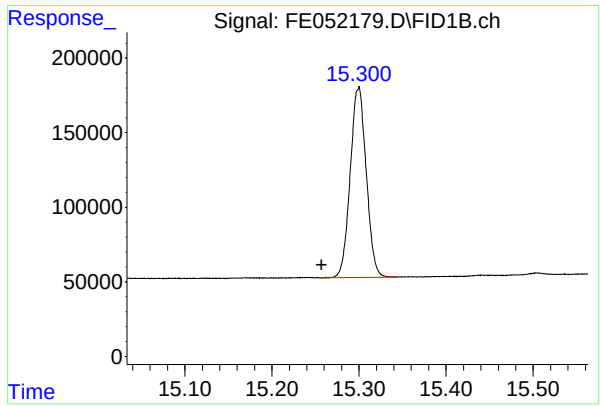
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052179.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:09
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:11:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.300 min
Delta R.T.: 0.043 min
Response: 1626036
Conc: 16.33 ug/ml

Instrument :
FID_E
ClientSampleId :
I.BLK

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rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052179.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:09
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.300	15.254	15.342	BB	127391	1626036	100.00%	100.000%
Sum of corrected areas:						1626036		

FE012325.M Mon Feb 03 02:05:36 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FE052189.D	SDG No.:	Q1235
Lab Sample ID:	I.BLK-FE052189.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052189.D	1		01/31/25	FE013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.5		29 - 130	87%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052189.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 21:12
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:14:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
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...	15.299	1739092	17.461 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

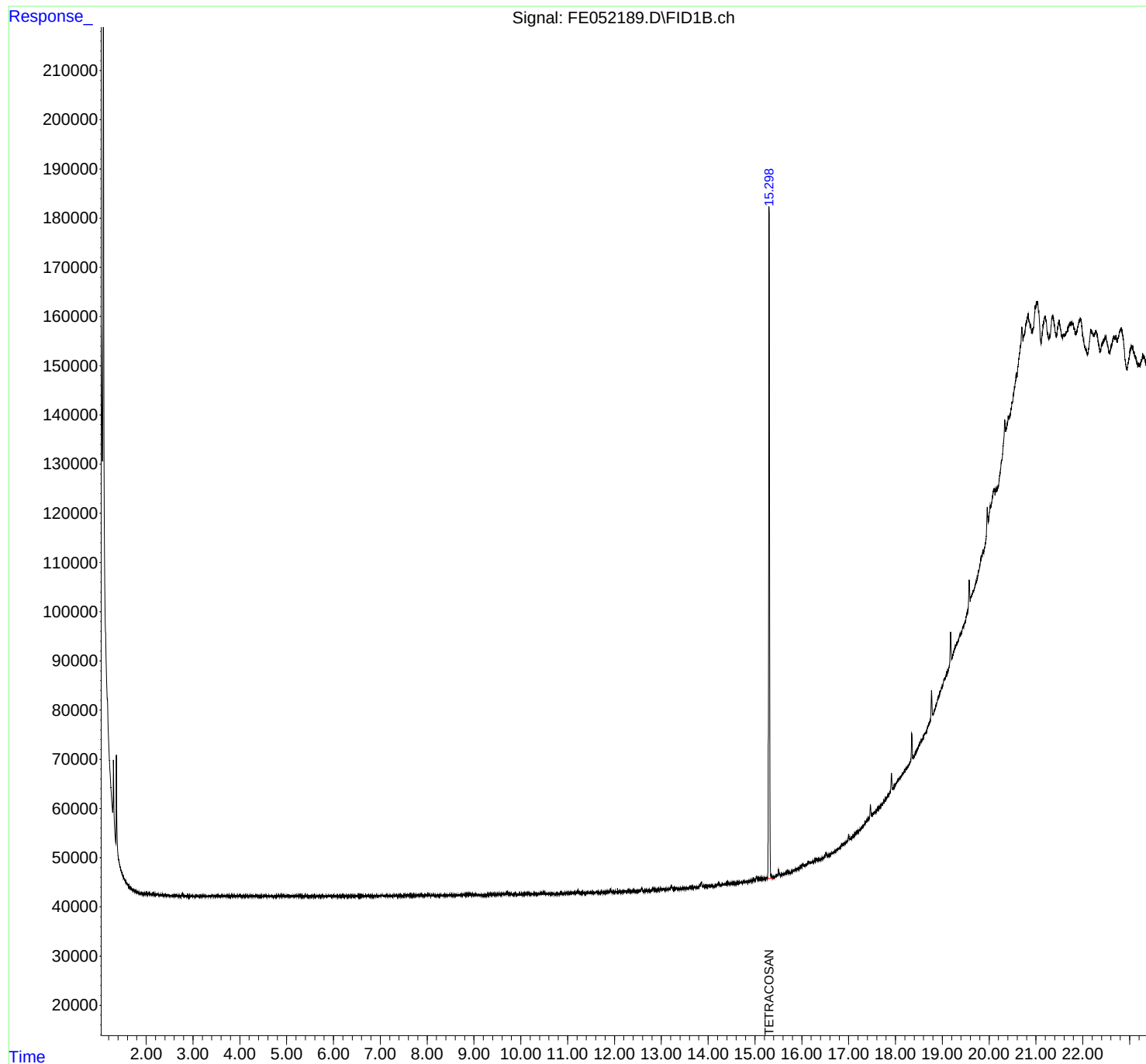
(m)=manual int.

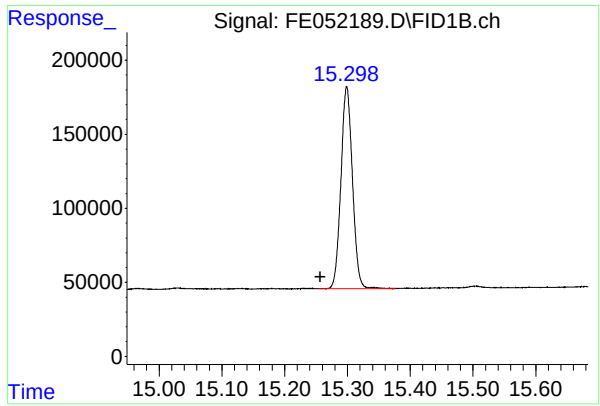
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052189.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 21:12
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:14:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.299 min
Delta R.T.: 0.042 min
Response: 1739092
Conc: 17.46 ug/ml

Instrument :
FID_E
ClientSampleId :
I.BLK

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052189.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 21:12
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.299	15.255	15.377	BB	136524	1739092	100.00%	100.000%
Sum of corrected areas:						1739092		

FE012325.M Mon Feb 03 02:07:03 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FG015282.D	SDG No.:	Q1235
Lab Sample ID:	I.BLK-FG015282.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015282.D	1		01/31/25	FG013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.6		29 - 130	83%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015282.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 15:48
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: Feb 01 01:16:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
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...	15.066	2129580	16.602 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

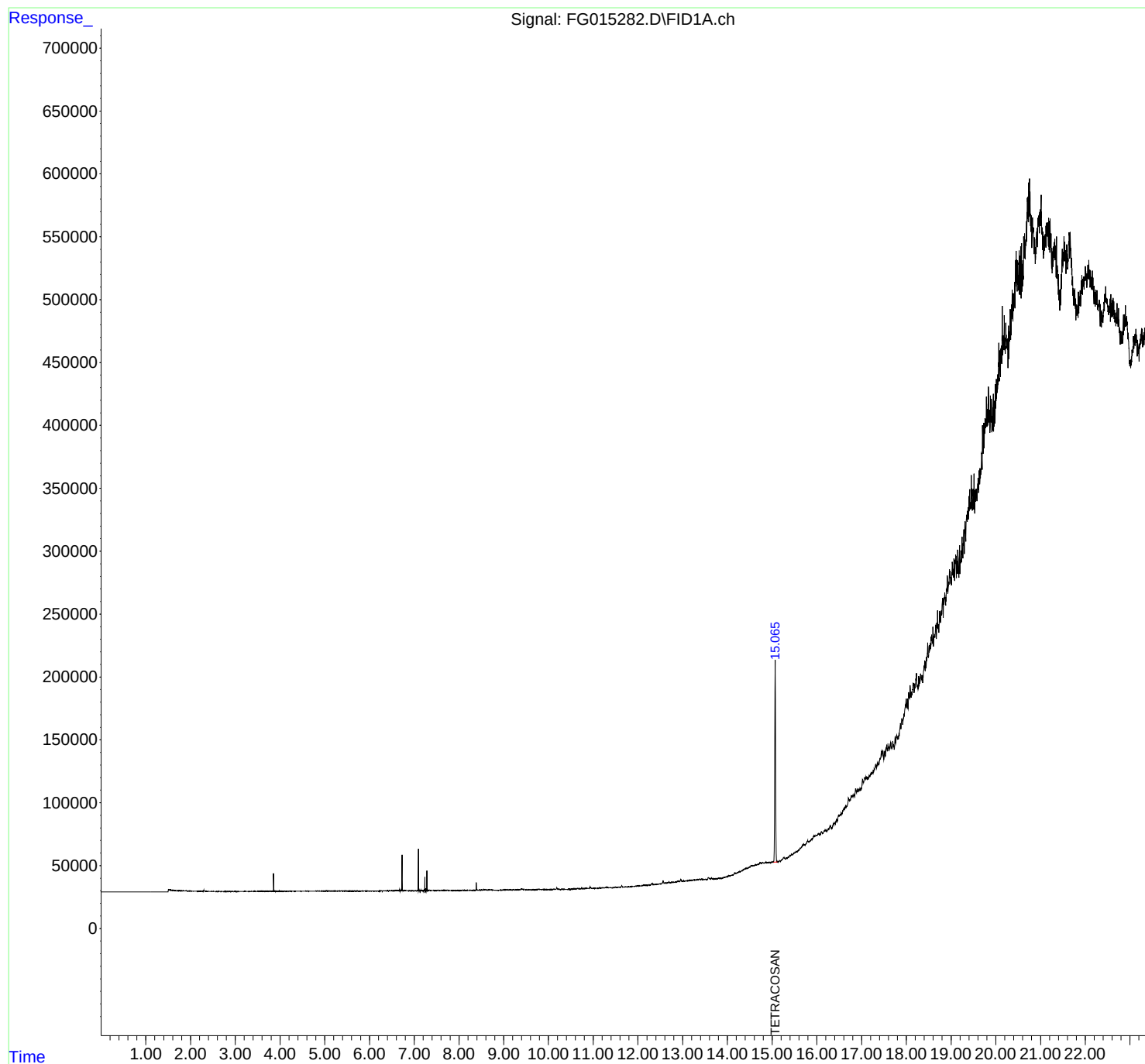
(m)=manual int.

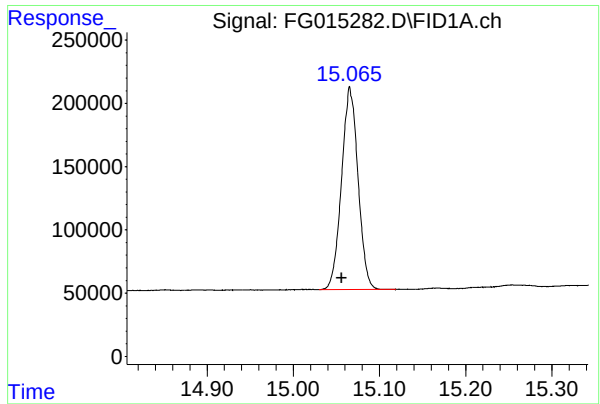
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015282.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 15:48
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 01 01:16:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.066 min
Delta R.T.: 0.010 min
Response: 2129580
Conc: 16.60 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015282.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 15:48
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.066	15.030	15.119	VB	159391	2129580	100.00%	100.000%
Sum of corrected areas:						2129580		

FG011325.M Sat Feb 01 02:05:34 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FG015291.D	SDG No.:	Q1235
Lab Sample ID:	I.BLK-FG015291.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015291.D	1		01/31/25	FG013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	15.9		29 - 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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015291.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 21:30
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: Feb 01 01:57:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
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	2039420	15.899 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

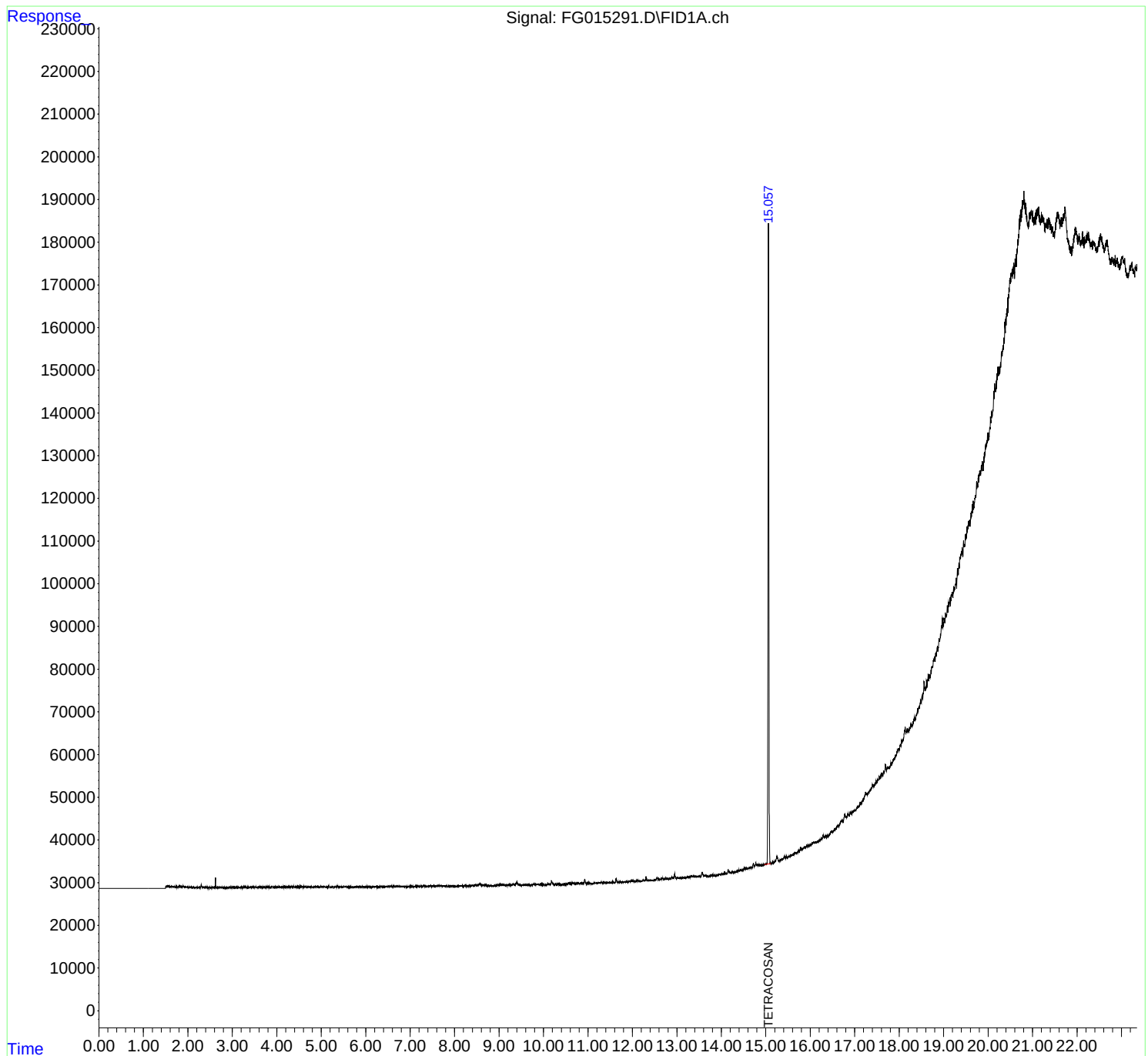
(m)=manual int.

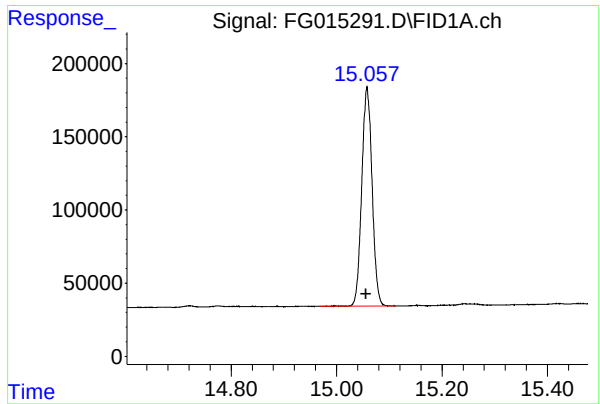
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015291.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 21:30
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 01 01:57:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
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.: 0.002 min
Response: 2039420
Conc: 15.90 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

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rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015291.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 21:30
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.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	14.967	15.113	BB	149689	2039420	100.00%	100.000%
Sum of corrected areas:						2039420		

FG011325.M Sat Feb 01 02:08:18 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166415BS	SDG No.:	Q1235
Lab Sample ID:	PB166415BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :		Final Vol:	1
PH :			mL
Prep Method :	SW3541	Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052172.D	1	01/31/25 08:50	01/31/25 12:38	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6350		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	18.8		37 - 130	94%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052172.D
 Signal(s) : FID1B.ch
 Acq On : 31 Jan 2025 12:38
 Operator : YP\AJ
 Sample : PB166415BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

FID_E

ClientSampleId :

PB166415BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 00:08:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 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...	15.269	1871130	18.787 ug/mlm
Target Compounds			
2) N-DECANE	4.930	1667496	18.223 ug/ml
3) N-DODECANE	7.056	1831391	18.329 ug/ml
4) N-TETRADECANE	8.860	1960262	19.266 ug/ml
5) N-HEXADECANE	10.452	2054144	19.277 ug/ml
6) N-OCTADECANE	11.884	2140266	19.089 ug/mlm
7) N-EICOSANE	13.186	2185174	19.619 ug/ml
8) N-DOCOSANE	14.376	2128002	19.166 ug/ml
10) N-TETRACOSANE	15.474	2117307	19.142 ug/ml
11) N-HEXACOSANE	16.490	2103127	19.293 ug/ml
12) N-OCTACOSANE	17.436	2070572	19.183 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052172.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:38
Operator : YP\AJ
Sample : PB166415BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :

FID_E

Client SampleId :

PB166415BS

Manual Integrations

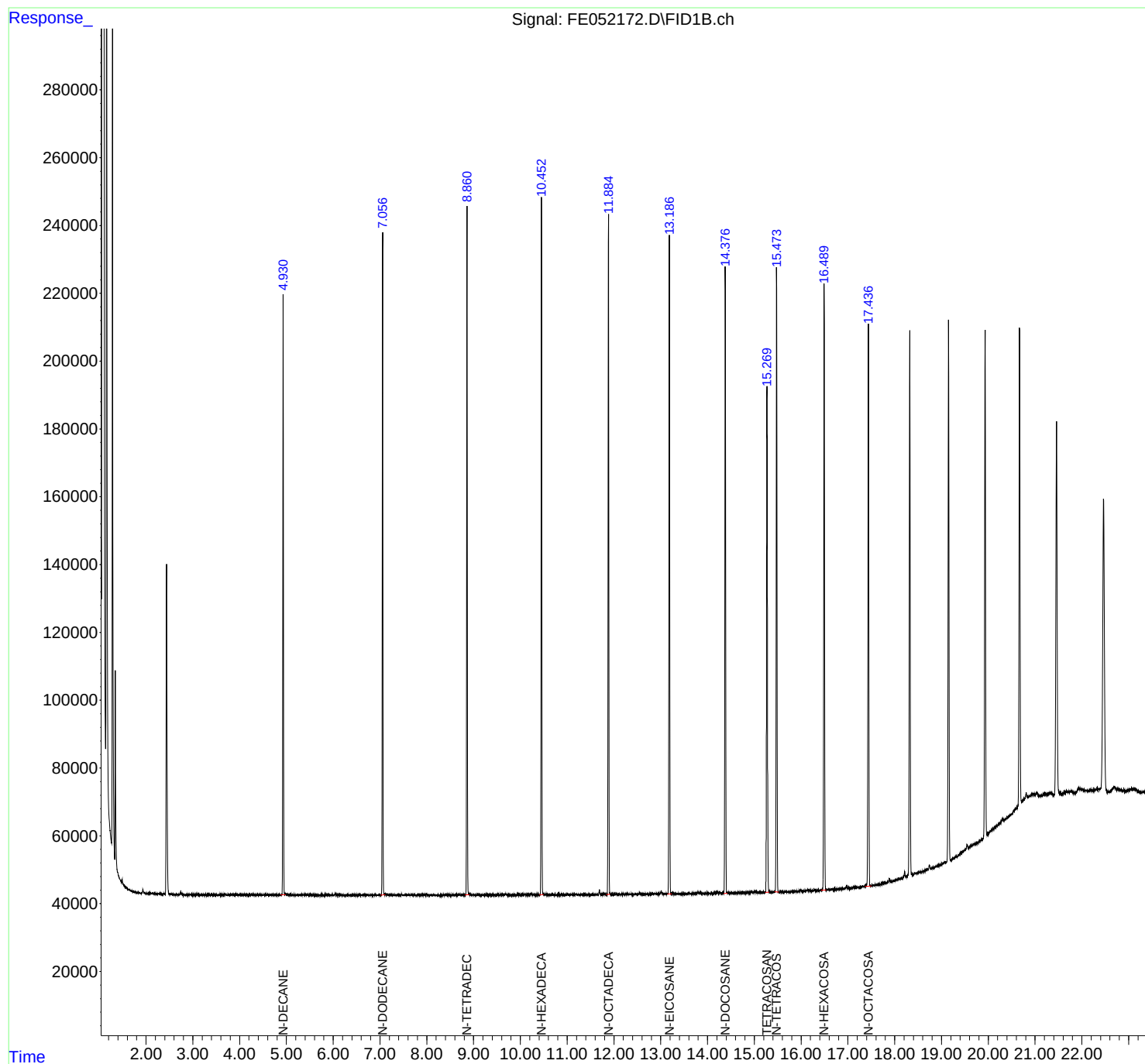
APPROVED

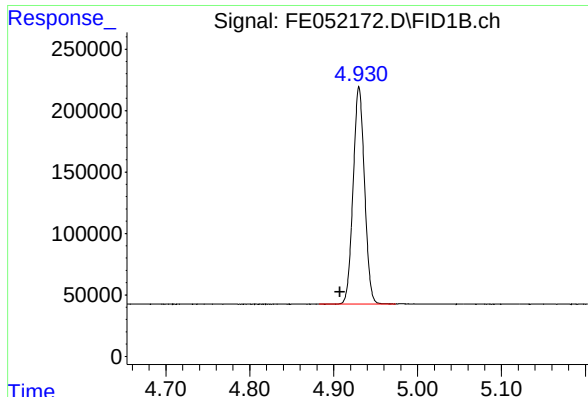
Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 00:08:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





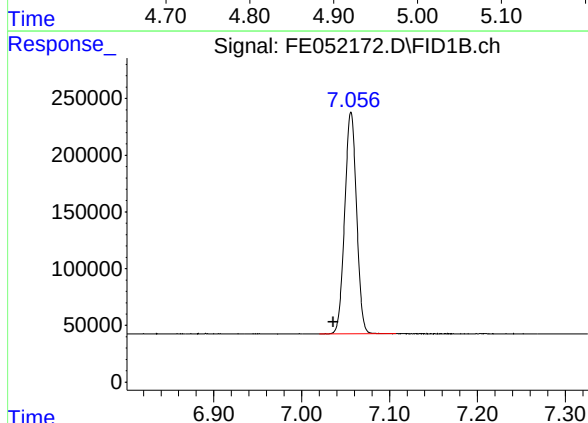
#2 N-DECANE

R.T.: 4.930 min
Delta R.T.: 0.023 min
Response: 1667496
Conc: 18.22 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166415BS

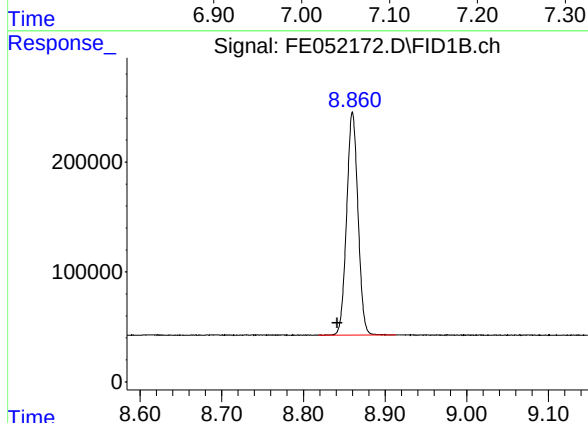
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



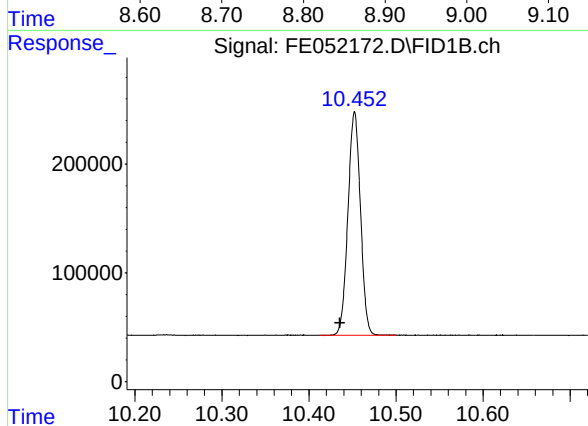
#3 N-DODECANE

R.T.: 7.056 min
Delta R.T.: 0.020 min
Response: 1831391
Conc: 18.33 ug/ml



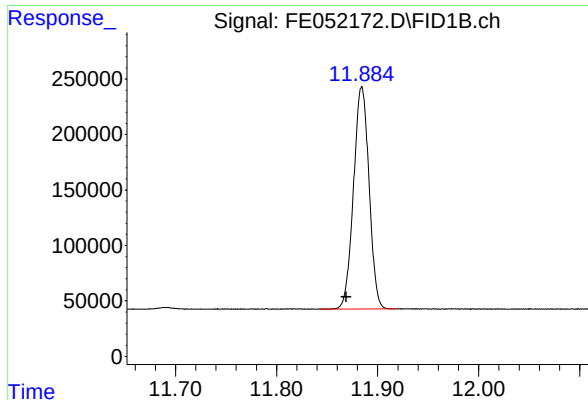
#4 N-TETRADECANE

R.T.: 8.860 min
Delta R.T.: 0.018 min
Response: 1960262
Conc: 19.27 ug/ml



#5 N-HEXADECANE

R.T.: 10.452 min
Delta R.T.: 0.017 min
Response: 2054144
Conc: 19.28 ug/ml



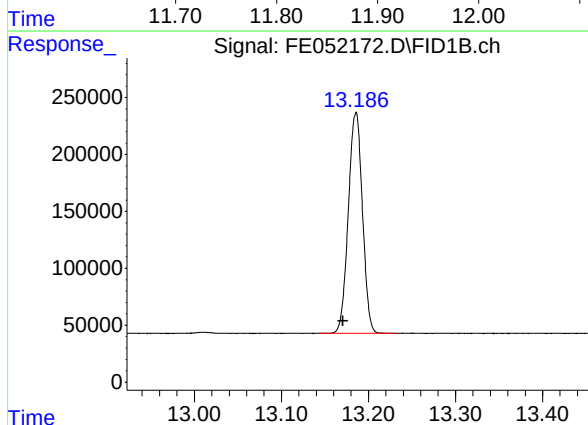
#6 N-OCTADECANE

R.T.: 11.884 min
Delta R.T.: 0.015 min
Response: 2140266
Conc: 19.09 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166415BS

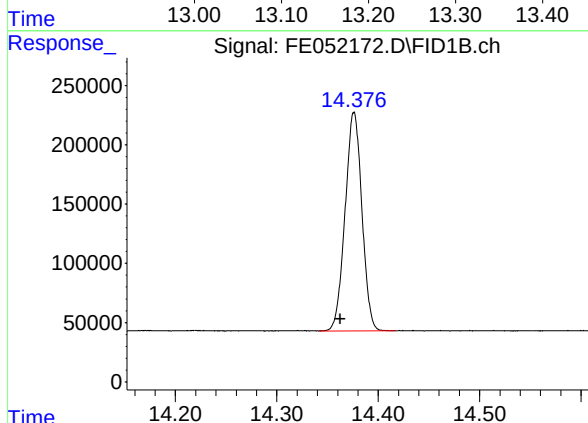
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



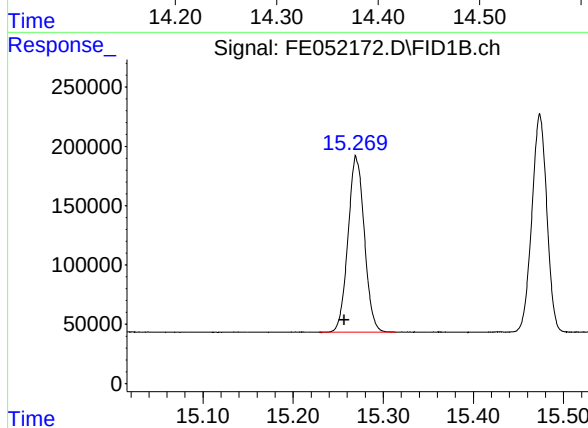
#7 N-EICOSANE

R.T.: 13.186 min
Delta R.T.: 0.015 min
Response: 2185174
Conc: 19.62 ug/ml



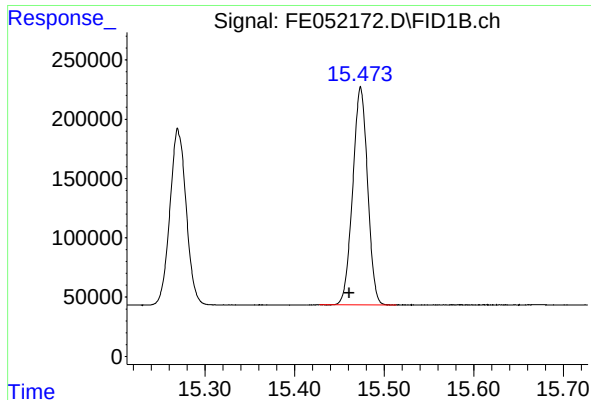
#8 N-DOCOSANE

R.T.: 14.376 min
Delta R.T.: 0.014 min
Response: 2128002
Conc: 19.17 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.269 min
Delta R.T.: 0.012 min
Response: 1871130
Conc: 18.79 ug/ml m



#10 N-TETRACOSANE

R.T.: 15.474 min
Delta R.T.: 0.013 min
Response: 2117307
Conc: 19.14 ug/ml

Instrument :

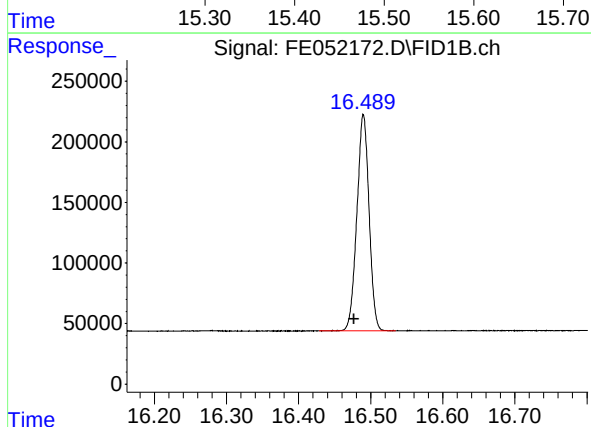
FID_E

ClientSampleId :

PB166415BS

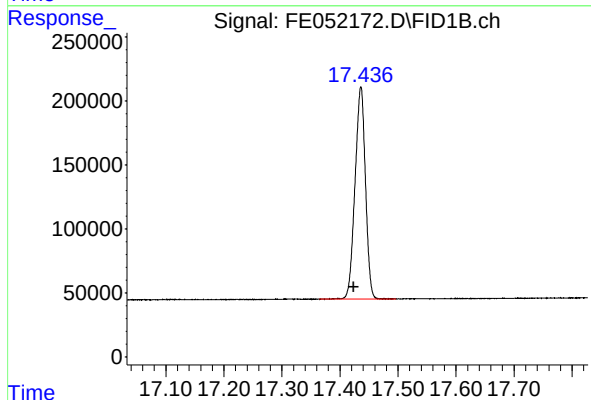
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.490 min
Delta R.T.: 0.013 min
Response: 2103127
Conc: 19.29 ug/ml



#12 N-OCTACOSANE

R.T.: 17.436 min
Delta R.T.: 0.013 min
Response: 2070572
Conc: 19.18 ug/ml

rteres

Instrument :

FID_E

ClientSampleId :

PB166415BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052172.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:38
Sample : PB166415BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.930	4.882	4.974	BB	177047	1667496	76.31%	7.536%
2	7.056	7.020	7.107	BB	195607	1831391	83.81%	8.276%
3	8.860	8.819	8.913	BB	203032	1960262	89.71%	8.859%
4	10.452	10.412	10.500	BB	205530	2054144	94.00%	9.283%
5	11.884	11.772	11.920	BB	200340	2139250	97.90%	9.668%
6	13.186	13.143	13.232	BB	194052	2185174	100.00%	9.875%
7	14.376	14.342	14.417	BB	184985	2128002	97.38%	9.617%
8	15.270	15.191	15.322	BB	148202	1871106	85.63%	8.456%
9	15.474	15.427	15.513	BB	183502	2117307	96.89%	9.569%
10	16.490	16.428	16.535	BB	178491	2103127	96.25%	9.504%
11	17.436	17.364	17.497	BB	165740	2070572	94.76%	9.357%
Sum of corrected areas:						22127831		

FE012325.M Mon Feb 03 02:05:04 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.3-013025MS	SDG No.:	Q1235
Lab Sample ID:	Q1241-05MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.3
Sample Wt/Vol:	30.05 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052181.D	1	01/31/25 08:50	01/31/25 17:10	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	150000	E	207	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.8		37 - 130	64%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052181.D
 Signal(s) : FID1B.ch
 Acq On : 31 Jan 2025 17:10
 Operator : YP\AJ
 Sample : Q1241-05MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 JPP-5.3-013025MS

Integration File: autoint1.e
 Quant Time: Feb 03 01:36:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 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...	15.243	1271058	12.762 ug/ml
Target Compounds			
2) N-DECANE	4.973	1675110	18.306 ug/ml
3) N-DODECANE	7.095	1826036	18.276 ug/ml
4) N-TETRADECANE	8.848	414569	4.074 ug/ml
5) N-HEXADECANE	10.428	733215	6.881 ug/ml
6) N-OCTADECANE	11.865	126683	1.130 ug/ml
7) N-EICOSANE	13.165	991476	8.902 ug/ml
8) N-DOCOSANE	14.356	1338735	12.057 ug/ml
10) N-TETRACOSANE	15.449	647568	5.854 ug/ml
11) N-HEXACOSANE	16.476	419148	3.845 ug/ml
12) N-OCTACOSANE	17.451	10339978	95.794 ug/ml

(f)=RT Delta > 1/2 Window

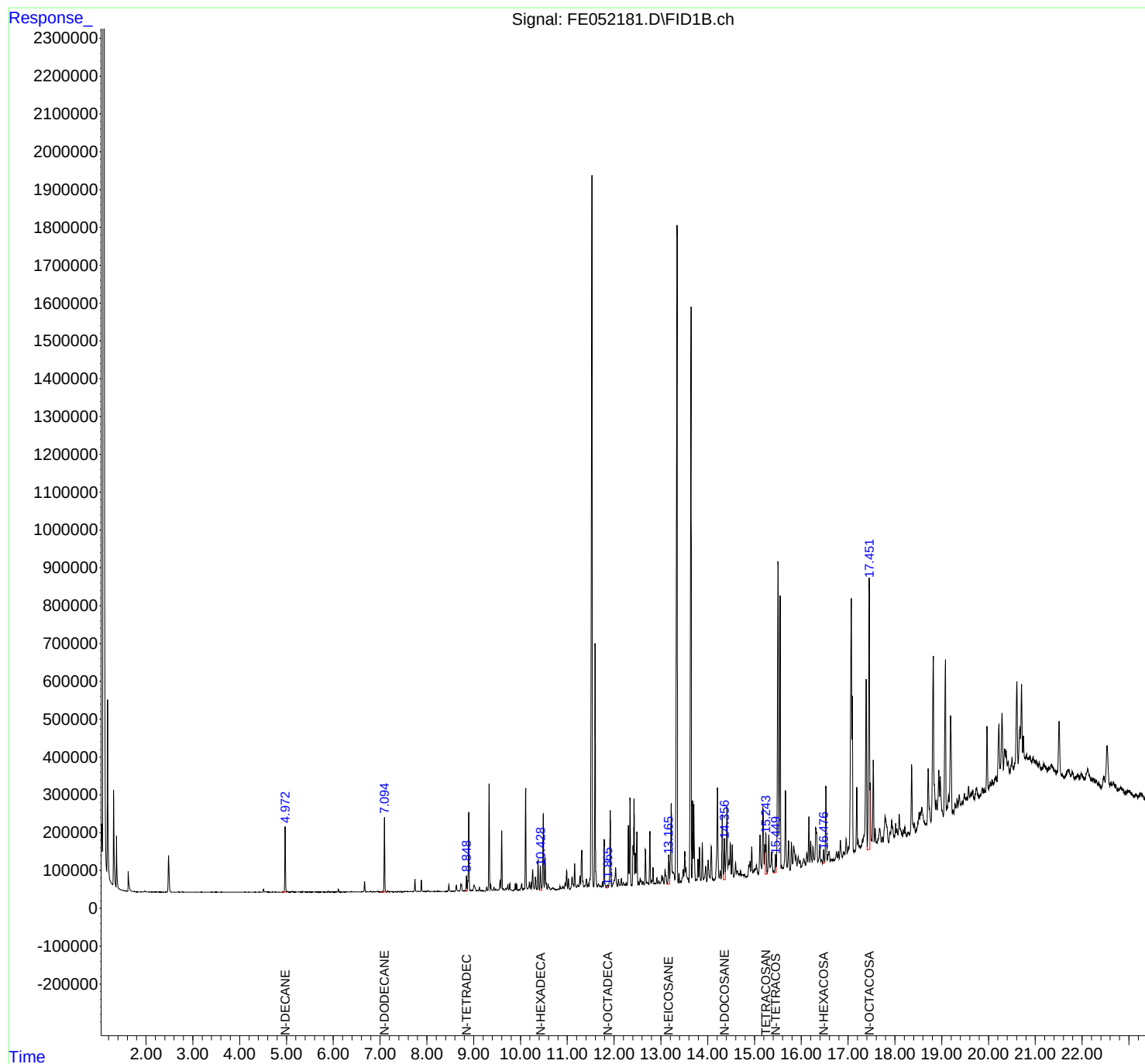
(m)=manual int.

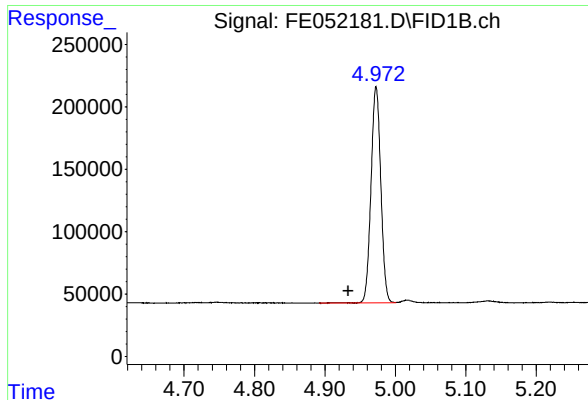
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052181.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:10
Operator : YP\AJ
Sample : Q1241-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS

Integration File: autoint1.e
Quant Time: Feb 03 01:36:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

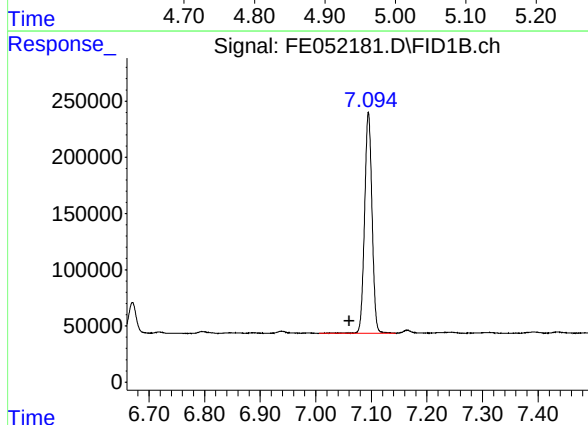




#2 N-DECANE

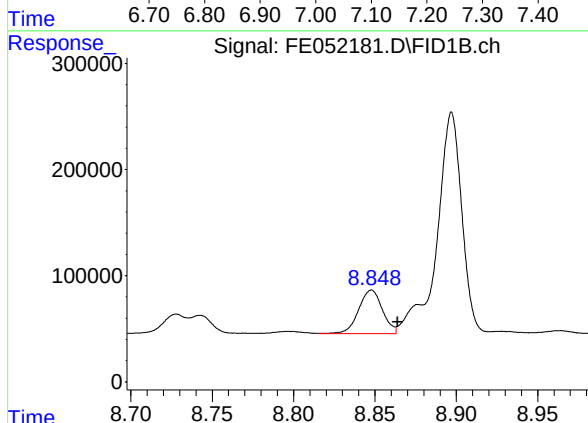
R.T.: 4.973 min
Delta R.T.: 0.040 min
Response: 1675110
Conc: 18.31 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS



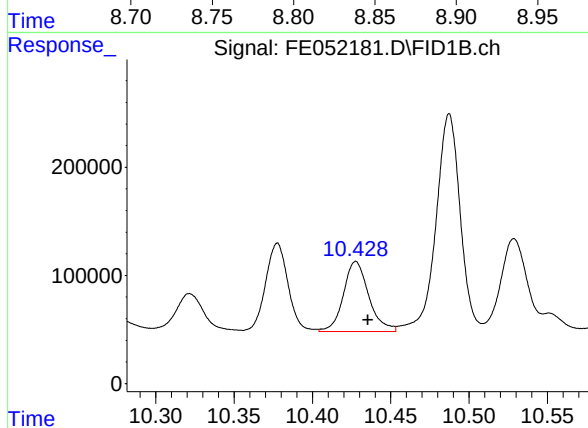
#3 N-DODECANE

R.T.: 7.095 min
Delta R.T.: 0.035 min
Response: 1826036
Conc: 18.28 ug/ml



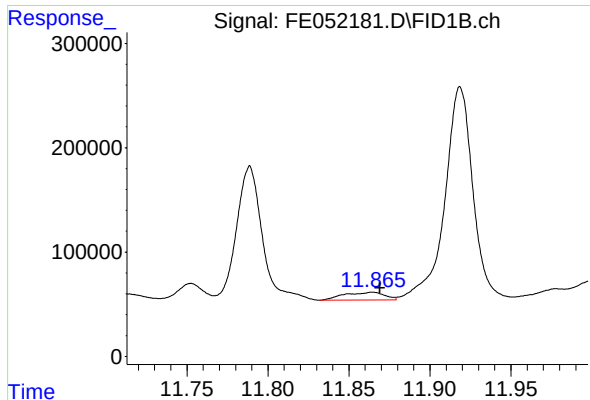
#4 N-TETRADECANE

R.T.: 8.848 min
Delta R.T.: -0.016 min
Response: 414569
Conc: 4.07 ug/ml



#5 N-HEXADECANE

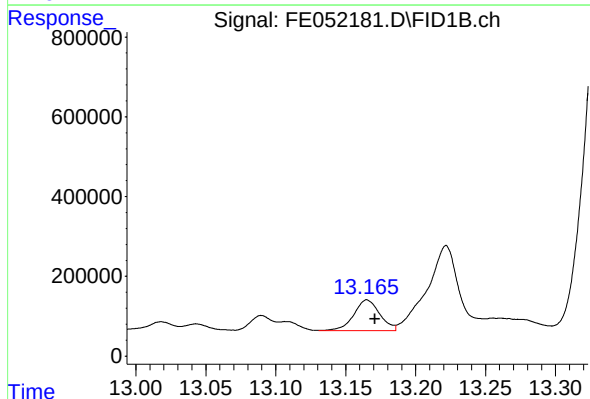
R.T.: 10.428 min
Delta R.T.: -0.008 min
Response: 733215
Conc: 6.88 ug/ml



#6 N-OCTADECANE

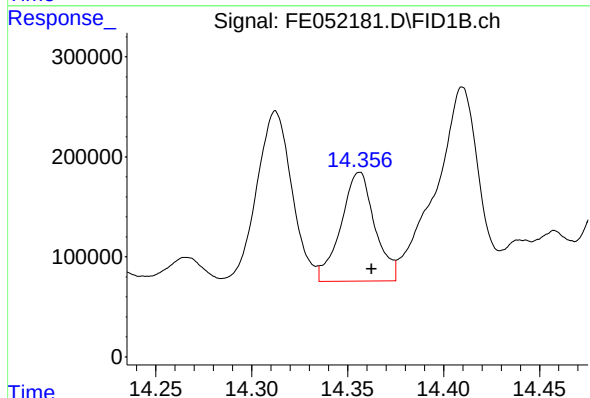
R.T.: 11.865 min
Delta R.T.: -0.004 min
Response: 126683
Conc: 1.13 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS



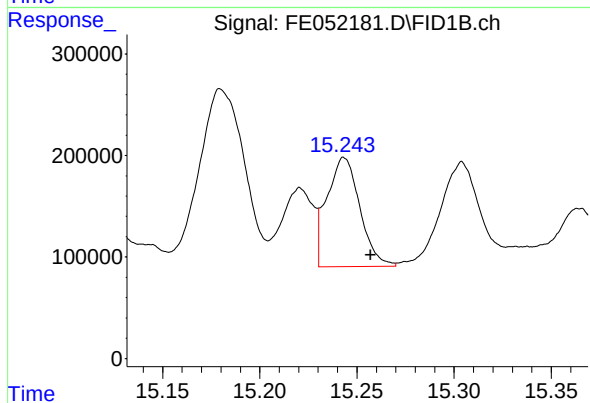
#7 N-EICOSANE

R.T.: 13.165 min
Delta R.T.: -0.006 min
Response: 991476
Conc: 8.90 ug/ml



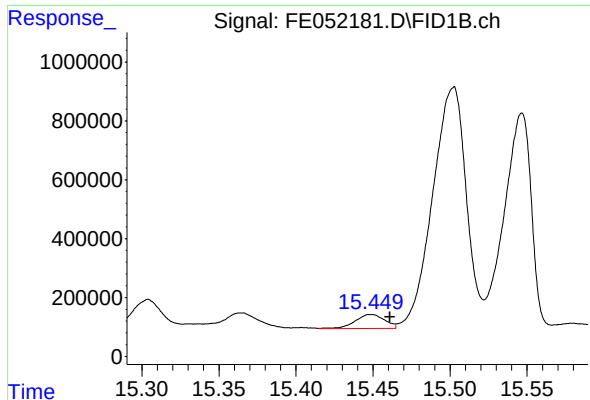
#8 N-DOCOSANE

R.T.: 14.356 min
Delta R.T.: -0.006 min
Response: 1338735
Conc: 12.06 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

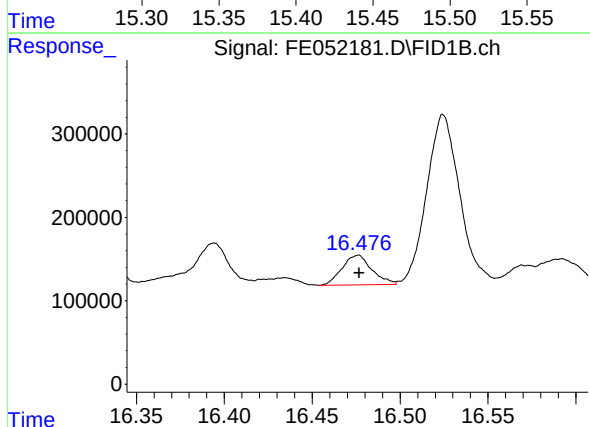
R.T.: 15.243 min
Delta R.T.: -0.014 min
Response: 1271058
Conc: 12.76 ug/ml



#10 N-TETRACOSANE

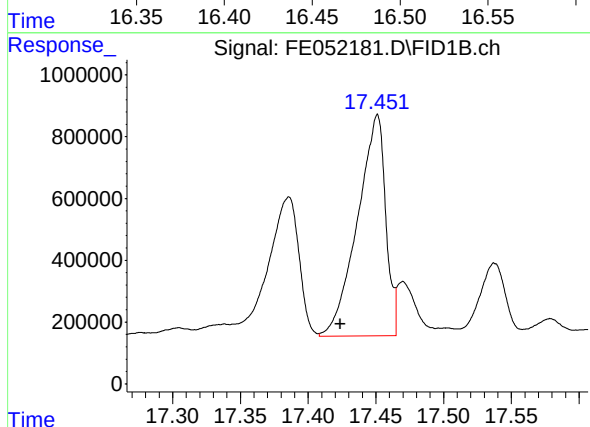
R.T.: 15.449 min
Delta R.T.: -0.012 min
Response: 647568
Conc: 5.85 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS



#11 N-HEXACOSANE

R.T.: 16.476 min
Delta R.T.: 0.000 min
Response: 419148
Conc: 3.85 ug/ml



#12 N-OCTACOSANE

R.T.: 17.451 min
Delta R.T.: 0.027 min
Response: 10339978
Conc: 95.79 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052181.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:10
Sample : Q1241-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.912	4.852	4.944	BH	301	3548	0.01%	0.001%
2	4.973	4.944	5.001	HH	173549	1673818	6.41%	0.392%
3	5.017	5.001	5.045	HH	2249	27945	0.11%	0.007%
4	5.055	5.045	5.071	HH	348	4301	0.02%	0.001%
5	5.088	5.071	5.098	HH	365	4282	0.02%	0.001%
6	5.131	5.098	5.177	HH	1772	34366	0.13%	0.008%
7	5.178	5.177	5.182	HH	231	509	0.00%	0.000%
8	5.200	5.182	5.205	HH	385	3503	0.01%	0.001%
9	5.218	5.205	5.240	HH	667	10080	0.04%	0.002%
10	5.258	5.240	5.274	HH	513	8390	0.03%	0.002%
11	5.280	5.274	5.292	HH	493	4116	0.02%	0.001%
12	5.293	5.292	5.310	HH	404	2770	0.01%	0.001%
13	5.317	5.310	5.323	HH	371	2087	0.01%	0.000%
14	5.344	5.323	5.367	HH	922	15169	0.06%	0.004%
15	5.383	5.367	5.413	HH	665	12202	0.05%	0.003%
16	5.432	5.413	5.452	HH	409	6032	0.02%	0.001%
17	5.471	5.452	5.538	HH	644	14634	0.06%	0.003%
18	5.560	5.538	5.566	HH	514	4873	0.02%	0.001%
19	5.572	5.566	5.578	HH	493	3115	0.01%	0.001%
20	5.587	5.578	5.602	HH	453	5079	0.02%	0.001%
21	5.618	5.602	5.629	HH	603	6087	0.02%	0.001%
22	5.643	5.629	5.656	HH	365	4954	0.02%	0.001%
23	5.660	5.656	5.678	HH	414	4210	0.02%	0.001%
24	5.682	5.678	5.699	HH	389	2981	0.01%	0.001%
25	5.708	5.699	5.714	HH	424	1879	0.01%	0.000%
26	5.729	5.714	5.744	HH	421	5500	0.02%	0.001%
27	5.774	5.744	5.798	HH	646	12803	0.05%	0.003%
28	5.812	5.798	5.830	HH	433	4755	0.02%	0.001%
29	5.842	5.830	5.855	HH	209	2015	0.01%	0.000%
30	5.895	5.855	5.922	HH	2158	27880	0.11%	0.007%
31	5.931	5.922	5.941	HH	420	3428	0.01%	0.001%
32	5.956	5.941	5.961	HH	433	4001	0.02%	0.001%
33	5.968	5.961	5.994	HH	393	6550	0.03%	0.002%
34	5.997	5.994	6.006	HH	255	1141	0.00%	0.000%
35	6.010	6.006	6.020	HH	212	1249	0.00%	0.000%
36	6.038	6.020	6.065	HH	371	6074	0.02%	0.001%

					rteres			
37	6.084	6.065	6.095	HH	1163	12749	0.05%	0.003%
38	6.111	6.095	6.155	HH	7701	87789	0.34%	0.021%
39	6.166	6.155	6.178	HH	426	4337	0.02%	0.001%
40	6.203	6.178	6.216	HH	695	9678	0.04%	0.002%
41	6.229	6.216	6.251	HH	430	6817	0.03%	0.002%
42	6.267	6.251	6.278	HH	432	5536	0.02%	0.001%
43	6.291	6.278	6.310	HH	899	12507	0.05%	0.003%
44	6.319	6.310	6.341	HH	772	10696	0.04%	0.003%
45	6.391	6.341	6.427	HH	1984	38765	0.15%	0.009%
46	6.442	6.427	6.461	HH	1215	14274	0.05%	0.003%
47	6.491	6.461	6.498	HH	683	11350	0.04%	0.003%
48	6.508	6.498	6.520	HH	751	8978	0.03%	0.002%
49	6.537	6.520	6.552	HH	788	12276	0.05%	0.003%
50	6.563	6.552	6.581	HH	757	10464	0.04%	0.002%
51	6.584	6.581	6.595	HH	559	4038	0.02%	0.001%
52	6.612	6.595	6.625	HH	1238	16979	0.07%	0.004%
53	6.638	6.625	6.645	HH	1170	12392	0.05%	0.003%
54	6.670	6.645	6.705	HH	28119	288565	1.11%	0.068%
55	6.718	6.705	6.742	HH	1805	24754	0.09%	0.006%
56	6.746	6.742	6.772	HH	755	11330	0.04%	0.003%
57	6.796	6.772	6.829	HH	2225	40055	0.15%	0.009%
58	6.847	6.829	6.874	HH	1092	24345	0.09%	0.006%
59	6.888	6.874	6.913	HH	1169	19844	0.08%	0.005%
60	6.939	6.913	6.963	HH	2513	39968	0.15%	0.009%
61	6.967	6.963	6.973	HH	869	5247	0.02%	0.001%
62	6.988	6.973	7.005	HH	970	15781	0.06%	0.004%
63	7.028	7.005	7.038	HH	904	15832	0.06%	0.004%
64	7.049	7.038	7.062	HH	970	12223	0.05%	0.003%
65	7.095	7.062	7.144	HH	197146	1855219	7.11%	0.434%
66	7.164	7.144	7.197	HH	3474	51161	0.20%	0.012%
67	7.244	7.197	7.266	HH	1618	46495	0.18%	0.011%
68	7.276	7.266	7.284	HH	905	9001	0.03%	0.002%
69	7.312	7.284	7.344	HH	1291	35397	0.14%	0.008%
70	7.394	7.344	7.415	HH	1841	46768	0.18%	0.011%
71	7.436	7.415	7.472	HH	1883	40252	0.15%	0.009%
72	7.484	7.472	7.491	HH	1091	10628	0.04%	0.002%
73	7.495	7.491	7.502	HH	1006	7040	0.03%	0.002%
74	7.518	7.502	7.542	HH	2250	33657	0.13%	0.008%
75	7.556	7.542	7.573	HH	1967	28785	0.11%	0.007%
76	7.586	7.573	7.602	HH	1608	23653	0.09%	0.006%
77	7.622	7.602	7.643	HH	1734	38206	0.15%	0.009%
78	7.654	7.643	7.667	HH	1897	23931	0.09%	0.006%
79	7.677	7.667	7.697	HH	1964	30233	0.12%	0.007%
80	7.699	7.697	7.712	HH	1471	12574	0.05%	0.003%
81	7.746	7.712	7.774	HH	33821	361973	1.39%	0.085%
82	7.784	7.774	7.789	HH	1916	16740	0.06%	0.004%
83	7.804	7.789	7.816	HH	2440	33433	0.13%	0.008%
84	7.818	7.816	7.829	HH	2084	15395	0.06%	0.004%
85	7.839	7.829	7.861	HH	2104	32715	0.13%	0.008%
86	7.884	7.861	7.915	HH	31767	329841	1.26%	0.077%
87	7.925	7.915	7.947	HH	1936	32238	0.12%	0.008%
88	7.961	7.947	7.972	HH	1605	21121	0.08%	0.005%
89	7.979	7.972	7.989	HH	1525	15582	0.06%	0.004%

rteres								
90	8.026	7.989	8.071	HH	4554	109629	0.42%	0.026%
91	8.087	8.071	8.091	HH	1854	21085	0.08%	0.005%
92	8.107	8.091	8.126	HH	2074	39446	0.15%	0.009%
93	8.132	8.126	8.162	HH	1846	34672	0.13%	0.008%
94	8.184	8.162	8.189	HH	1780	25537	0.10%	0.006%
95	8.218	8.189	8.229	HH	2167	45517	0.17%	0.011%
96	8.239	8.229	8.261	HH	2268	38582	0.15%	0.009%
97	8.272	8.261	8.304	HH	1899	39825	0.15%	0.009%
98	8.326	8.304	8.333	HH	2136	30659	0.12%	0.007%
99	8.343	8.333	8.356	HH	2080	26062	0.10%	0.006%
100	8.360	8.356	8.392	HH	2019	38209	0.15%	0.009%
101	8.395	8.392	8.410	HH	1699	17914	0.07%	0.004%
102	8.434	8.410	8.447	HH	2513	46695	0.18%	0.011%
103	8.471	8.447	8.497	HH	19903	235290	0.90%	0.055%
104	8.506	8.497	8.537	HH	2890	58282	0.22%	0.014%
105	8.550	8.537	8.567	HH	2681	43486	0.17%	0.010%
106	8.578	8.567	8.583	HH	2638	23779	0.09%	0.006%
107	8.593	8.583	8.608	HH	2854	39533	0.15%	0.009%
108	8.630	8.608	8.667	HH	17456	263814	1.01%	0.062%
109	8.676	8.667	8.695	HH	3584	53156	0.20%	0.012%
110	8.728	8.695	8.736	HH	21037	243054	0.93%	0.057%
111	8.743	8.736	8.779	HH	19833	227334	0.87%	0.053%
112	8.797	8.779	8.816	HH	4784	82896	0.32%	0.019%
113	8.848	8.816	8.863	HH	43912	491986	1.88%	0.115%
114	8.897	8.863	8.921	HH	211363	2311378	8.85%	0.541%
115	8.928	8.921	8.945	HH	4885	60237	0.23%	0.014%
116	8.964	8.945	8.982	HH	5395	91701	0.35%	0.021%
117	9.010	8.982	9.066	HH	19096	522931	2.00%	0.122%
118	9.081	9.066	9.107	HH	5091	104365	0.40%	0.024%
119	9.124	9.107	9.152	HH	13271	189727	0.73%	0.044%
120	9.166	9.152	9.181	HH	4975	74293	0.28%	0.017%
121	9.197	9.181	9.216	HH	3722	74500	0.29%	0.017%
122	9.228	9.216	9.241	HH	3259	46074	0.18%	0.011%
123	9.248	9.241	9.252	HH	3257	21453	0.08%	0.005%
124	9.279	9.252	9.302	HH	13232	202753	0.78%	0.047%
125	9.332	9.302	9.352	HH	286408	2829735	10.84%	0.662%
126	9.365	9.352	9.410	HH	20953	331821	1.27%	0.078%
127	9.435	9.410	9.456	HH	13110	213991	0.82%	0.050%
128	9.472	9.456	9.501	HH	8530	177307	0.68%	0.041%
129	9.517	9.501	9.522	HH	5978	70952	0.27%	0.017%
130	9.534	9.522	9.541	HH	6256	66145	0.25%	0.015%
131	9.567	9.541	9.582	HH	31162	440259	1.69%	0.103%
132	9.601	9.582	9.623	HH	161969	1630870	6.25%	0.382%
133	9.634	9.623	9.664	HH	9640	169000	0.65%	0.040%
134	9.685	9.664	9.700	HH	10222	161828	0.62%	0.038%
135	9.732	9.700	9.750	HH	19520	337599	1.29%	0.079%
136	9.774	9.750	9.796	HH	22602	322032	1.23%	0.075%
137	9.800	9.796	9.819	HH	5986	74089	0.28%	0.017%
138	9.833	9.819	9.851	HH	5041	89635	0.34%	0.021%
139	9.890	9.851	9.906	HH	22259	339508	1.30%	0.079%
140	9.921	9.906	9.950	HH	20946	283191	1.08%	0.066%
141	9.974	9.950	9.987	HH	6199	124889	0.48%	0.029%

rteres								
142	10.025	9.987	10.047	HH	23055	426056	1.63%	0.100%
143	10.066	10.047	10.073	HH	8887	123143	0.47%	0.029%
144	10.082	10.073	10.087	HH	8693	67830	0.26%	0.016%
145	10.112	10.087	10.157	HH	274329	2925521	11.21%	0.685%
146	10.191	10.157	10.213	HH	26683	515880	1.98%	0.121%
147	10.229	10.213	10.243	HH	25709	297800	1.14%	0.070%
148	10.263	10.243	10.298	HH	60192	925135	3.54%	0.217%
149	10.322	10.298	10.356	HH	40382	633324	2.43%	0.148%
150	10.378	10.356	10.404	HH	87209	972953	3.73%	0.228%
151	10.428	10.404	10.453	HH	70235	887713	3.40%	0.208%
152	10.487	10.453	10.509	HH	206954	2353209	9.01%	0.551%
153	10.529	10.509	10.572	HH	91418	1360959	5.21%	0.319%
154	10.592	10.572	10.611	HH	22614	345571	1.32%	0.081%
155	10.620	10.611	10.645	HH	12273	193978	0.74%	0.045%
156	10.691	10.645	10.715	HH	11701	399215	1.53%	0.093%
157	10.727	10.715	10.759	HH	9987	199674	0.76%	0.047%
158	10.790	10.759	10.802	HH	8038	182229	0.70%	0.043%
159	10.811	10.802	10.823	HH	7977	100117	0.38%	0.023%
160	10.846	10.823	10.867	HH	15569	292687	1.12%	0.069%
161	10.878	10.867	10.886	HH	9670	105180	0.40%	0.025%
162	10.903	10.886	10.916	HH	15711	225586	0.86%	0.053%
163	10.923	10.916	10.936	HH	12121	132411	0.51%	0.031%
164	10.954	10.936	10.966	HH	25034	337560	1.29%	0.079%
165	10.987	10.966	11.009	HH	57811	836100	3.20%	0.196%
166	11.027	11.009	11.057	HH	36013	535227	2.05%	0.125%
167	11.103	11.057	11.120	HH	39695	753333	2.89%	0.176%
168	11.127	11.120	11.140	HH	21664	233089	0.89%	0.055%
169	11.160	11.140	11.193	HH	76054	1115449	4.27%	0.261%
170	11.198	11.193	11.207	HH	13664	111325	0.43%	0.026%
171	11.222	11.207	11.232	HH	18566	240850	0.92%	0.056%
172	11.239	11.232	11.249	HH	17433	175486	0.67%	0.041%
173	11.271	11.249	11.285	HH	43266	626518	2.40%	0.147%
174	11.313	11.285	11.332	HH	111137	1904391	7.30%	0.446%
175	11.336	11.332	11.354	HH	27886	292246	1.12%	0.068%
176	11.379	11.354	11.390	HH	17769	338513	1.30%	0.079%
177	11.408	11.390	11.427	HH	34559	531209	2.03%	0.124%
178	11.442	11.427	11.463	HH	20914	382244	1.46%	0.089%
179	11.483	11.463	11.489	HH	35668	415314	1.59%	0.097%
180	11.530	11.489	11.562	HH	1891774	24689658	94.58%	5.779%
181	11.593	11.562	11.647	HH	656863	7375721	28.25%	1.726%
182	11.667	11.647	11.702	HH	22104	577695	2.21%	0.135%
183	11.713	11.702	11.733	HH	17130	282149	1.08%	0.066%
184	11.752	11.733	11.767	HH	27166	397359	1.52%	0.093%
185	11.789	11.767	11.832	HH	140179	1847006	7.08%	0.432%
186	11.865	11.832	11.879	HH	18783	448895	1.72%	0.105%
187	11.919	11.879	11.952	HH	215782	2972671	11.39%	0.696%
188	11.979	11.952	11.983	HH	22021	346633	1.33%	0.081%
189	12.031	11.983	12.074	HH	65145	1735857	6.65%	0.406%
190	12.095	12.074	12.122	HH	34540	696803	2.67%	0.163%
191	12.156	12.122	12.175	HH	35648	748439	2.87%	0.175%
192	12.196	12.175	12.220	HH	26066	570205	2.18%	0.133%
193	12.233	12.220	12.244	HH	19791	270280	1.04%	0.063%
194	12.259	12.244	12.275	HH	24751	389042	1.49%	0.091%

rteres								
195	12.307	12.275	12.322	HH	176642	2228603	8.54%	0.522%
196	12.339	12.322	12.367	HH	249361	2854829	10.94%	0.668%
197	12.375	12.367	12.381	HH	17851	143971	0.55%	0.034%
198	12.405	12.381	12.413	HH	123096	1342825	5.14%	0.314%
199	12.427	12.413	12.442	HH	247359	2713561	10.39%	0.635%
200	12.456	12.442	12.469	HH	103430	1213147	4.65%	0.284%
201	12.486	12.469	12.507	HH	159381	1950988	7.47%	0.457%
202	12.520	12.507	12.535	HH	27098	381814	1.46%	0.089%
203	12.559	12.535	12.572	HH	37310	629947	2.41%	0.147%
204	12.581	12.572	12.601	HH	30113	452134	1.73%	0.106%
205	12.622	12.601	12.642	HH	27723	586134	2.25%	0.137%
206	12.668	12.642	12.705	HH	112652	1831695	7.02%	0.429%
207	12.714	12.705	12.743	HH	25228	534434	2.05%	0.125%
208	12.768	12.743	12.789	HH	160837	2024883	7.76%	0.474%
209	12.803	12.789	12.812	HH	32001	406725	1.56%	0.095%
210	12.830	12.812	12.856	HH	65450	1016318	3.89%	0.238%
211	12.880	12.856	12.894	HH	23719	522427	2.00%	0.122%
212	12.917	12.894	12.936	HH	37603	723791	2.77%	0.169%
213	12.954	12.936	12.989	HH	30555	810573	3.11%	0.190%
214	13.018	12.989	13.032	HH	43404	851129	3.26%	0.199%
215	13.043	13.032	13.072	HH	38383	698607	2.68%	0.164%
216	13.090	13.072	13.103	HH	59246	810842	3.11%	0.190%
217	13.108	13.103	13.131	HH	43730	568020	2.18%	0.133%
218	13.165	13.131	13.186	HH	98926	1695235	6.49%	0.397%
219	13.222	13.186	13.250	HH	234478	4250263	16.28%	0.995%
220	13.255	13.250	13.297	HH	52834	1324010	5.07%	0.310%
221	13.346	13.297	13.371	HH	1749935	26104905	100.00%	6.110%
222	13.388	13.371	13.405	HH	49209	717286	2.75%	0.168%
223	13.419	13.405	13.433	HH	29984	470168	1.80%	0.110%
224	13.475	13.433	13.489	HH	59251	1386486	5.31%	0.325%
225	13.511	13.489	13.526	HH	107271	1637659	6.27%	0.383%
226	13.535	13.526	13.568	HH	65019	1254969	4.81%	0.294%
227	13.579	13.568	13.596	HH	37303	554816	2.13%	0.130%
228	13.644	13.596	13.660	HH	1548929	21592296	82.71%	5.054%
229	13.679	13.660	13.692	HH	241516	2837276	10.87%	0.664%
230	13.706	13.692	13.738	HH	232764	3130213	11.99%	0.733%
231	13.759	13.738	13.771	HH	33974	630338	2.41%	0.148%
232	13.790	13.771	13.805	HH	87321	1208349	4.63%	0.283%
233	13.824	13.805	13.852	HH	118244	1877447	7.19%	0.439%
234	13.883	13.852	13.907	HH	131585	2114764	8.10%	0.495%
235	13.956	13.907	13.977	HH	67813	1875151	7.18%	0.439%
236	14.011	13.977	14.050	HH	84308	2210345	8.47%	0.517%
237	14.075	14.050	14.100	HH	121019	2191198	8.39%	0.513%
238	14.112	14.100	14.129	HH	35841	579204	2.22%	0.136%
239	14.208	14.129	14.245	HH	275057	5974430	22.89%	1.398%
240	14.266	14.245	14.284	HH	56614	1075545	4.12%	0.252%
241	14.312	14.284	14.335	HH	203460	3167095	12.13%	0.741%
242	14.356	14.335	14.375	HH	141724	2131155	8.16%	0.499%
243	14.410	14.375	14.430	HH	227040	4119628	15.78%	0.964%
244	14.440	14.430	14.446	HH	73977	681032	2.61%	0.159%
245	14.458	14.446	14.468	HH	83625	1027423	3.94%	0.240%
246	14.484	14.468	14.503	HH	128038	1884778	7.22%	0.441%

rteres								
247	14.523	14.503	14.556	HH	125370	2281197	8.74%	0.534%
248	14.594	14.556	14.611	HH	77945	1847526	7.08%	0.432%
249	14.635	14.611	14.655	HH	56758	1391424	5.33%	0.326%
250	14.671	14.655	14.684	HH	49409	820441	3.14%	0.192%
251	14.701	14.684	14.717	HH	56904	970878	3.72%	0.227%
252	14.727	14.717	14.735	HH	47151	504653	1.93%	0.118%
253	14.743	14.735	14.768	HH	46456	911728	3.49%	0.213%
254	14.788	14.768	14.823	HH	47522	1406541	5.39%	0.329%
255	14.840	14.823	14.852	HH	42638	725022	2.78%	0.170%
256	14.876	14.852	14.886	HH	71079	1232064	4.72%	0.288%
257	14.904	14.886	14.920	HH	81172	1438495	5.51%	0.337%
258	14.939	14.920	14.961	HH	119703	2015867	7.72%	0.472%
259	14.974	14.961	14.983	HH	56623	742191	2.84%	0.174%
260	15.000	14.983	15.008	HH	61235	858573	3.29%	0.201%
261	15.039	15.008	15.084	HH	72671	2679598	10.26%	0.627%
262	15.117	15.084	15.153	HH	151819	3706381	14.20%	0.867%
263	15.180	15.153	15.205	HH	222789	4324746	16.57%	1.012%
264	15.221	15.205	15.230	HH	125771	1620445	6.21%	0.379%
265	15.243	15.230	15.270	HH	155298	2407665	9.22%	0.564%
266	15.304	15.270	15.340	HH	151460	3659536	14.02%	0.856%
267	15.364	15.340	15.397	HH	104717	2674047	10.24%	0.626%
268	15.404	15.397	15.415	HH	55338	569453	2.18%	0.133%
269	15.449	15.415	15.465	HH	99406	2190188	8.39%	0.513%
270	15.502	15.465	15.522	HH	871496	14267128	54.65%	3.339%
271	15.547	15.522	15.567	HH	783742	10381130	39.77%	2.430%
272	15.580	15.567	15.605	HH	70051	1478133	5.66%	0.346%
273	15.661	15.605	15.695	HH	269064	6123593	23.46%	1.433%
274	15.727	15.695	15.762	HH	136192	3439246	13.17%	0.805%
275	15.788	15.762	15.816	HH	130750	2947693	11.29%	0.690%
276	15.838	15.816	15.872	HH	122631	3433656	13.15%	0.804%
277	15.885	15.872	15.907	HH	96134	1764825	6.76%	0.413%
278	15.933	15.907	15.958	HH	94455	2558945	9.80%	0.599%
279	15.973	15.958	15.996	HH	83398	1703112	6.52%	0.399%
280	16.052	15.996	16.093	HH	87879	4486013	17.18%	1.050%
281	16.116	16.093	16.138	HH	104381	2427453	9.30%	0.568%
282	16.161	16.138	16.181	HH	199341	3380806	12.95%	0.791%
283	16.199	16.181	16.232	HH	135266	3114075	11.93%	0.729%
284	16.249	16.232	16.283	HH	120590	2940228	11.26%	0.688%
285	16.308	16.283	16.320	HH	170678	3007320	11.52%	0.704%
286	16.324	16.320	16.352	HH	159078	2272582	8.71%	0.532%
287	16.394	16.352	16.417	HH	126472	3774007	14.46%	0.883%
288	16.434	16.417	16.454	HH	84921	1786925	6.85%	0.418%
289	16.476	16.454	16.497	HH	111819	2407182	9.22%	0.563%
290	16.525	16.497	16.555	HH	279785	5327176	20.41%	1.247%
291	16.570	16.555	16.577	HH	99245	1273626	4.88%	0.298%
292	16.592	16.577	16.620	HH	107593	2451281	9.39%	0.574%
293	16.631	16.620	16.637	HH	84306	873440	3.35%	0.204%
294	16.654	16.637	16.673	HH	87614	1832294	7.02%	0.429%
295	16.685	16.673	16.700	HH	86902	1348669	5.17%	0.316%
296	16.749	16.700	16.774	HH	105538	4098215	15.70%	0.959%
297	16.791	16.774	16.809	HH	107657	2059516	7.89%	0.482%
298	16.834	16.809	16.878	HH	137219	4495672	17.22%	1.052%
299	16.905	16.878	16.933	HH	106759	3353762	12.85%	0.785%

					rteres			
300	16.957	16.933	16.980	HH	140950	3347235	12.82%	0.783%
301	17.004	16.980	17.016	HH	119496	2440069	9.35%	0.571%
302	17.067	17.016	17.081	HH	776713	15700979	60.15%	3.675%
303	17.089	17.081	17.115	HH	517488	5852524	22.42%	1.370%
304	17.126	17.115	17.141	HH	110576	1722497	6.60%	0.403%
305	17.185	17.141	17.203	HH	277800	6091367	23.33%	1.426%
306	17.213	17.203	17.229	HH	138572	2036588	7.80%	0.477%
307	17.240	17.229	17.259	HH	123771	2112154	8.09%	0.494%
308	17.276	17.259	17.284	HH	123777	1832614	7.02%	0.429%
309	17.305	17.284	17.317	HH	139457	2635834	10.10%	0.617%
310	17.386	17.317	17.408	HH	563003	13813880	52.92%	3.233%
311	17.451	17.408	17.461	HHA	829208	13546539	51.89%	3.171%
					Sum of corrected areas:		427267569	

FE012325.M Mon Feb 03 02:19:51 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.3-013025MSD	SDG No.:	Q1235
Lab Sample ID:	Q1241-05MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.3
Sample Wt/Vol:	30.02 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052182.D	1	01/31/25 08:50	01/31/25 17:40	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	152000	E	207	1870	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.4		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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052182.D
 Signal(s) : FID1B.ch
 Acq On : 31 Jan 2025 17:40
 Operator : YP\AJ
 Sample : Q1241-05MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 JPP-5.3-013025MSD

Integration File: autoint1.e
 Quant Time: Feb 03 01:36:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 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...	15.248	1234688	12.397 ug/ml
Target Compounds			
2) N-DECANE	4.978	1653958	18.075 ug/ml
3) N-DODECANE	7.099	1805020	18.065 ug/ml
4) N-TETRADECANE	8.852	403253	3.963 ug/ml
5) N-HEXADECANE	10.433	725075	6.804 ug/ml
6) N-OCTADECANE	11.869	119565	1.066 ug/ml
7) N-EICOSANE	13.170	970798	8.716 ug/ml
8) N-DOCOSANE	14.360	1318984	11.879 ug/ml
10) N-TETRACOSANE	15.453	606157	5.480 ug/ml
11) N-HEXACOSANE	16.478	426274	3.910 ug/ml
12) N-OCTACOSANE	17.454	10079391	93.380 ug/ml

(f)=RT Delta > 1/2 Window

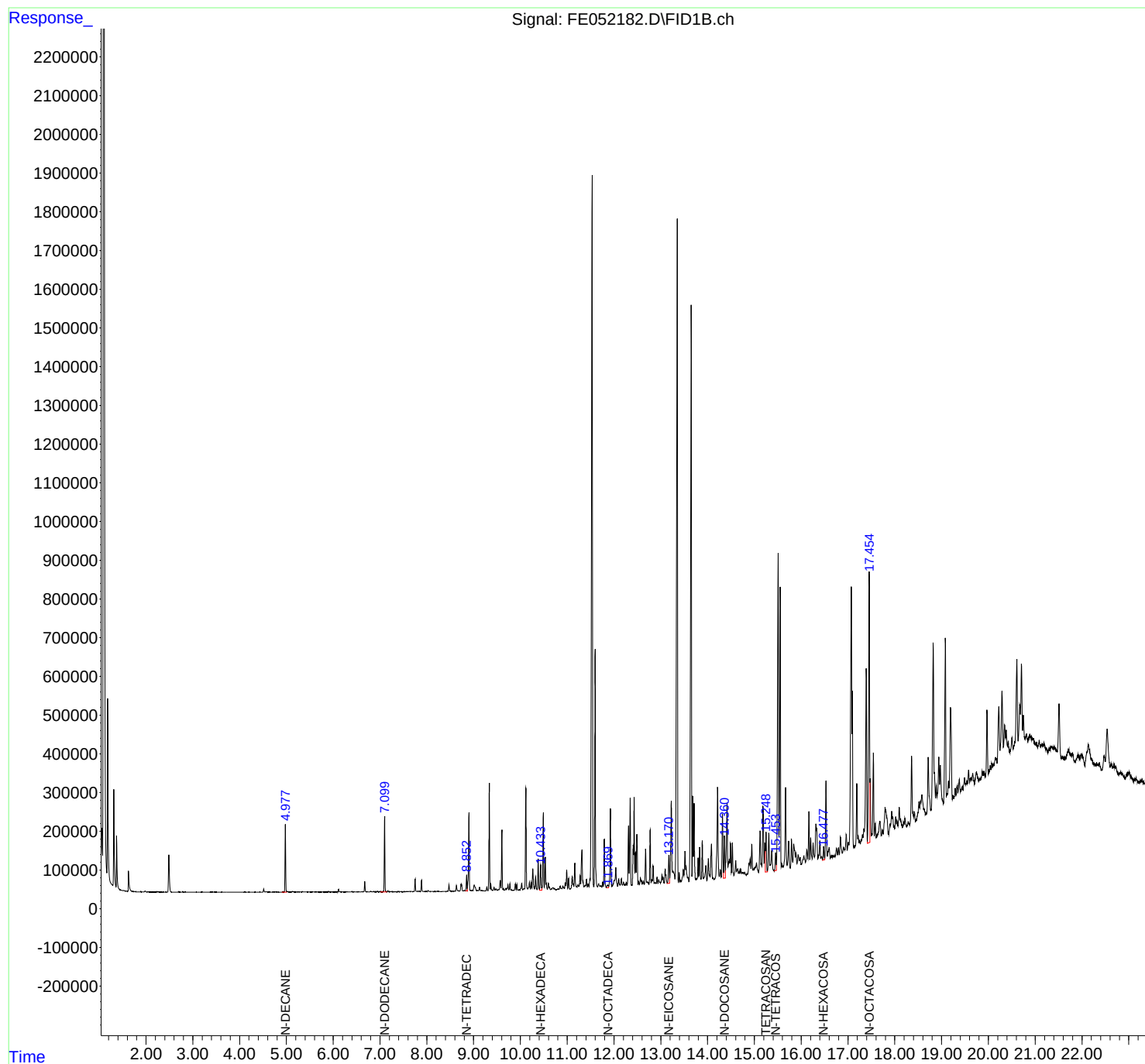
(m)=manual int.

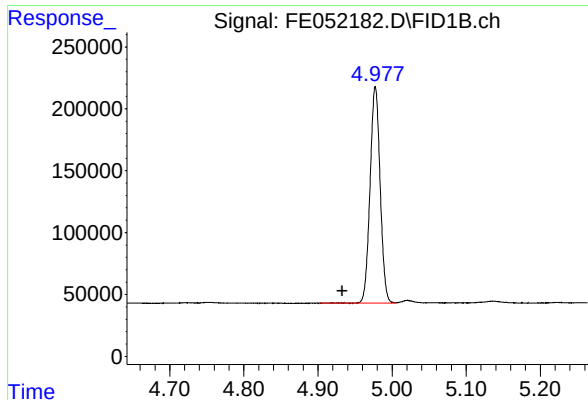
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052182.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:40
Operator : YP\AJ
Sample : Q1241-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD

Integration File: autoint1.e
Quant Time: Feb 03 01:36:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

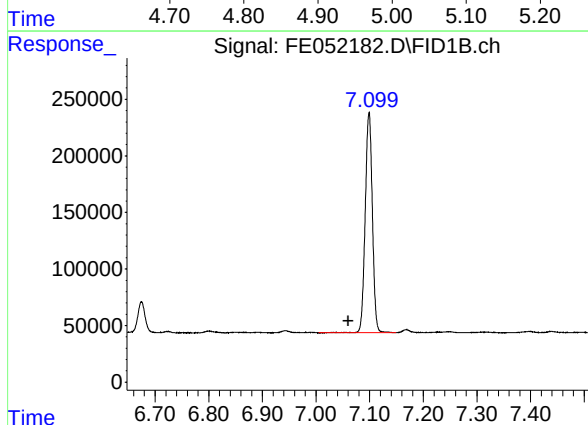




#2 N-DECANE

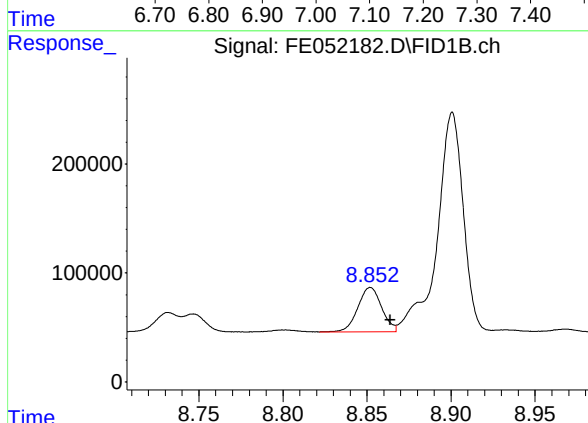
R.T.: 4.978 min
Delta R.T.: 0.045 min
Response: 1653958
Conc: 18.08 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD



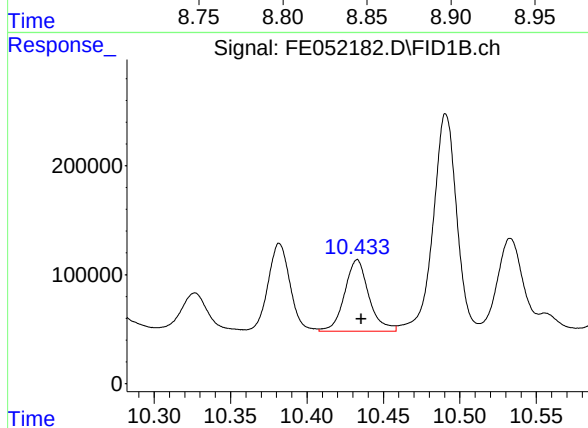
#3 N-DODECANE

R.T.: 7.099 min
Delta R.T.: 0.039 min
Response: 1805020
Conc: 18.07 ug/ml



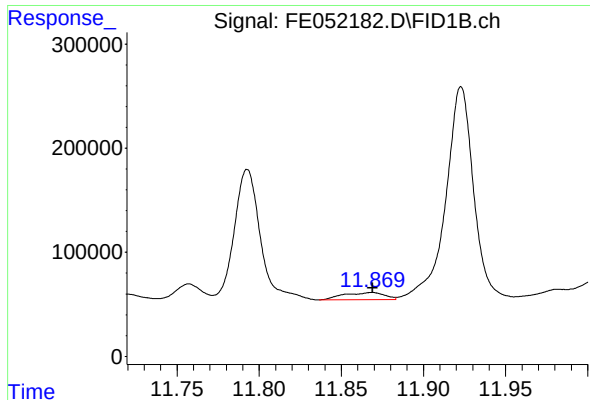
#4 N-TETRADECANE

R.T.: 8.852 min
Delta R.T.: -0.012 min
Response: 403253
Conc: 3.96 ug/ml



#5 N-HEXADECANE

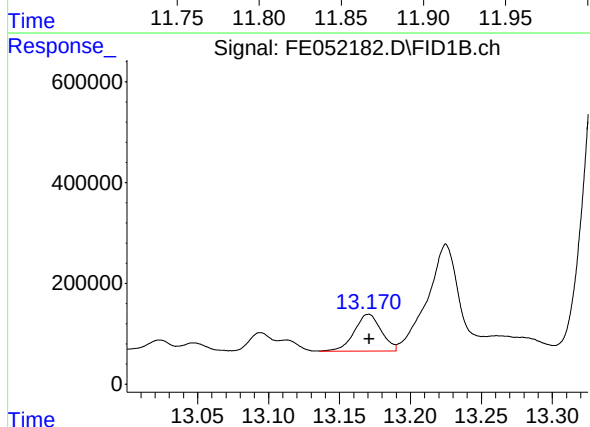
R.T.: 10.433 min
Delta R.T.: -0.003 min
Response: 725075
Conc: 6.80 ug/ml



#6 N-OCTADECANE

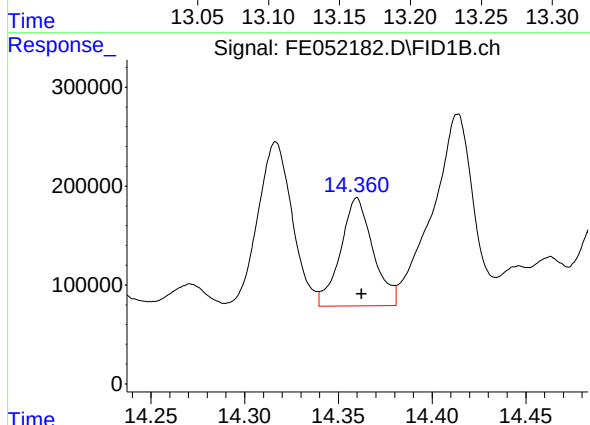
R.T.: 11.869 min
Delta R.T.: 0.000 min
Response: 119565
Conc: 1.07 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD



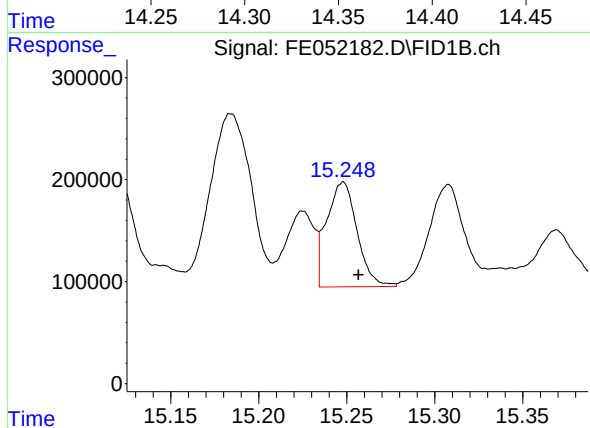
#7 N-EICOSANE

R.T.: 13.170 min
Delta R.T.: 0.000 min
Response: 970798
Conc: 8.72 ug/ml



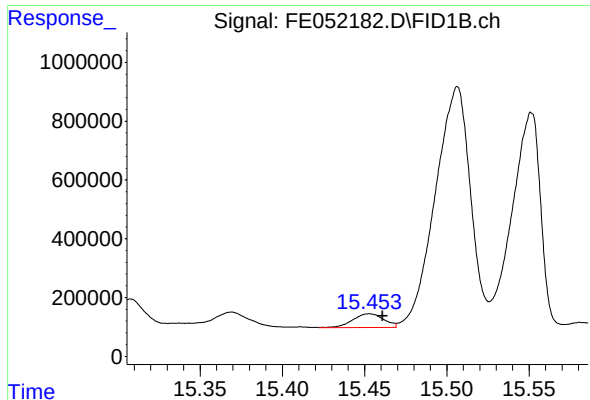
#8 N-DOCOSANE

R.T.: 14.360 min
Delta R.T.: -0.003 min
Response: 1318984
Conc: 11.88 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

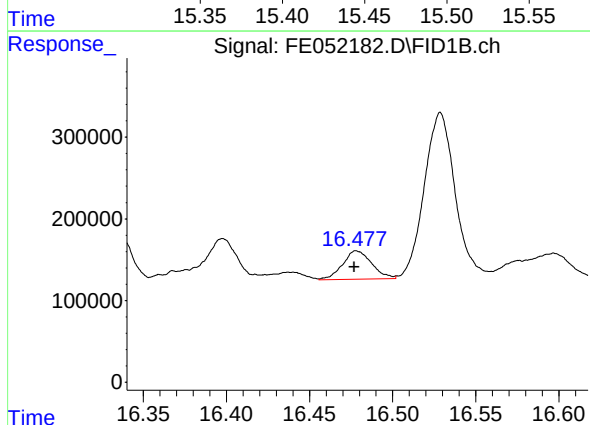
R.T.: 15.248 min
Delta R.T.: -0.009 min
Response: 1234688
Conc: 12.40 ug/ml



#10 N-TETRACOSANE

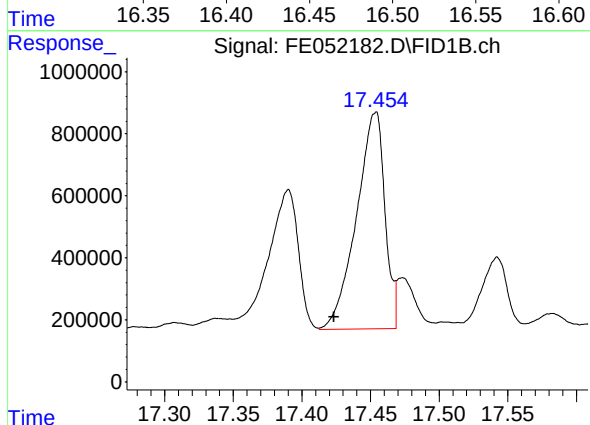
R.T.: 15.453 min
Delta R.T.: -0.008 min
Response: 606157
Conc: 5.48 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD



#11 N-HEXACOSANE

R.T.: 16.478 min
Delta R.T.: 0.001 min
Response: 426274
Conc: 3.91 ug/ml



#12 N-OCTACOSANE

R.T.: 17.454 min
Delta R.T.: 0.030 min
Response: 10079391
Conc: 93.38 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052182.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:40
Sample : Q1241-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.890	4.852	4.897	BH	-21	-1745	-0.01%	-0.000%
2	4.918	4.897	4.944	PH	188	1623	0.01%	0.000%
3	4.978	4.944	5.005	PH	174906	1654055	6.43%	0.382%
4	5.021	5.005	5.046	HH	2179	25035	0.10%	0.006%
5	5.051	5.046	5.076	HH	264	3969	0.02%	0.001%
6	5.083	5.076	5.088	HH	265	1425	0.01%	0.000%
7	5.092	5.088	5.104	HH	238	1856	0.01%	0.000%
8	5.137	5.104	5.172	HH	1666	29518	0.11%	0.007%
9	5.176	5.172	5.194	PH	154	1048	0.00%	0.000%
10	5.223	5.194	5.245	HH	502	8320	0.03%	0.002%
11	5.259	5.245	5.272	HH	388	4378	0.02%	0.001%
12	5.291	5.272	5.328	HH	495	9714	0.04%	0.002%
13	5.348	5.328	5.366	HH	763	10484	0.04%	0.002%
14	5.371	5.366	5.382	HH	419	3302	0.01%	0.001%
15	5.391	5.382	5.418	HH	507	8973	0.03%	0.002%
16	5.428	5.418	5.452	HH	319	4871	0.02%	0.001%
17	5.473	5.452	5.491	HH	476	6953	0.03%	0.002%
18	5.501	5.491	5.527	HH	324	4223	0.02%	0.001%
19	5.533	5.527	5.545	HH	118	701	0.00%	0.000%
20	5.564	5.545	5.585	PH	427	6103	0.02%	0.001%
21	5.594	5.585	5.607	HH	368	3952	0.02%	0.001%
22	5.619	5.607	5.640	HH	475	4793	0.02%	0.001%
23	5.646	5.640	5.658	HH	357	2794	0.01%	0.001%
24	5.665	5.658	5.672	HH	331	1901	0.01%	0.000%
25	5.677	5.672	5.688	HH	270	1849	0.01%	0.000%
26	5.690	5.688	5.705	HH	218	1190	0.00%	0.000%
27	5.737	5.705	5.752	PH	415	5487	0.02%	0.001%
28	5.772	5.752	5.798	HH	622	10053	0.04%	0.002%
29	5.813	5.798	5.856	PH	342	4057	0.02%	0.001%
30	5.860	5.856	5.876	HH	92	626	0.00%	0.000%
31	5.899	5.876	5.929	HH	2043	23417	0.09%	0.005%
32	5.933	5.929	5.942	HH	269	1505	0.01%	0.000%
33	5.946	5.942	5.952	HH	281	1086	0.00%	0.000%
34	5.963	5.952	5.969	HH	364	3023	0.01%	0.001%
35	5.974	5.969	6.011	HH	344	4260	0.02%	0.001%
36	6.015	6.011	6.019	HH	147	311	0.00%	0.000%

					nteres			
37	6.049	6.019	6.070	HH	281	3753	0.01%	0.001%
38	6.088	6.070	6.099	PH	1197	11154	0.04%	0.003%
39	6.115	6.099	6.166	HH	7713	84996	0.33%	0.020%
40	6.171	6.166	6.191	HH	269	3442	0.01%	0.001%
41	6.207	6.191	6.222	HH	590	6669	0.03%	0.002%
42	6.230	6.222	6.263	HH	276	5129	0.02%	0.001%
43	6.275	6.263	6.283	HH	407	3400	0.01%	0.001%
44	6.296	6.283	6.317	HH	853	11422	0.04%	0.003%
45	6.326	6.317	6.346	HH	689	8709	0.03%	0.002%
46	6.351	6.346	6.357	HH	474	2237	0.01%	0.001%
47	6.396	6.357	6.428	HH	1701	31398	0.12%	0.007%
48	6.446	6.428	6.463	HH	1140	13061	0.05%	0.003%
49	6.495	6.463	6.499	HH	573	8752	0.03%	0.002%
50	6.505	6.499	6.529	HH	702	10125	0.04%	0.002%
51	6.537	6.529	6.557	HH	749	9300	0.04%	0.002%
52	6.569	6.557	6.593	HH	670	9911	0.04%	0.002%
53	6.617	6.593	6.630	HH	1082	16719	0.06%	0.004%
54	6.643	6.630	6.649	HH	1150	11642	0.05%	0.003%
55	6.675	6.649	6.707	HH	27912	280664	1.09%	0.065%
56	6.723	6.707	6.741	HH	1759	21715	0.08%	0.005%
57	6.751	6.741	6.772	HH	647	9897	0.04%	0.002%
58	6.775	6.772	6.783	HH	548	3808	0.01%	0.001%
59	6.800	6.783	6.831	HH	2083	33730	0.13%	0.008%
60	6.848	6.831	6.878	HH	1062	22723	0.09%	0.005%
61	6.891	6.878	6.916	HH	1033	17883	0.07%	0.004%
62	6.943	6.916	6.963	HH	2388	35414	0.14%	0.008%
63	6.967	6.963	6.979	HH	794	7647	0.03%	0.002%
64	6.992	6.979	7.006	HH	885	12622	0.05%	0.003%
65	7.033	7.006	7.045	HH	874	16747	0.07%	0.004%
66	7.055	7.045	7.071	HH	909	12014	0.05%	0.003%
67	7.099	7.071	7.149	HH	195327	1829876	7.11%	0.422%
68	7.168	7.149	7.206	HH	3292	49944	0.19%	0.012%
69	7.226	7.206	7.236	HH	1172	17426	0.07%	0.004%
70	7.246	7.236	7.273	HH	1507	24367	0.09%	0.006%
71	7.312	7.273	7.353	HH	1210	40355	0.16%	0.009%
72	7.361	7.353	7.367	HH	737	5779	0.02%	0.001%
73	7.397	7.367	7.422	HH	1761	37243	0.14%	0.009%
74	7.439	7.422	7.475	HH	1854	35288	0.14%	0.008%
75	7.492	7.475	7.507	HH	999	16430	0.06%	0.004%
76	7.522	7.507	7.541	HH	2087	29176	0.11%	0.007%
77	7.561	7.541	7.577	HH	1953	28948	0.11%	0.007%
78	7.591	7.577	7.607	HH	1441	23286	0.09%	0.005%
79	7.635	7.607	7.646	HH	1673	33686	0.13%	0.008%
80	7.656	7.646	7.671	HH	1838	24582	0.10%	0.006%
81	7.686	7.671	7.714	HH	1852	38381	0.15%	0.009%
82	7.751	7.714	7.777	HH	33425	357192	1.39%	0.082%
83	7.808	7.777	7.834	HH	2264	63315	0.25%	0.015%
84	7.843	7.834	7.866	HH	2062	32099	0.12%	0.007%
85	7.888	7.866	7.921	HH	31037	323911	1.26%	0.075%
86	7.931	7.921	7.949	HH	1851	27058	0.11%	0.006%
87	7.966	7.949	7.972	HH	1481	18469	0.07%	0.004%
88	7.980	7.972	7.992	HH	1508	16054	0.06%	0.004%
89	8.030	7.992	8.077	HH	4513	108068	0.42%	0.025%

					rteres			
90	8.114	8.077	8.127	HH	1929	53655	0.21%	0.012%
91	8.136	8.127	8.172	HH	1785	40969	0.16%	0.009%
92	8.187	8.172	8.199	HH	1651	24464	0.10%	0.006%
93	8.224	8.199	8.234	HH	2133	38563	0.15%	0.009%
94	8.247	8.234	8.306	HH	2180	71080	0.28%	0.016%
95	8.333	8.306	8.339	HH	1971	32353	0.13%	0.007%
96	8.349	8.339	8.377	HH	1885	41343	0.16%	0.010%
97	8.380	8.377	8.392	HH	1756	14806	0.06%	0.003%
98	8.399	8.392	8.412	HH	1598	17618	0.07%	0.004%
99	8.435	8.412	8.451	HH	2293	46996	0.18%	0.011%
100	8.475	8.451	8.502	HH	19135	232136	0.90%	0.054%
101	8.508	8.502	8.540	HH	2684	52401	0.20%	0.012%
102	8.557	8.540	8.569	HH	2616	41208	0.16%	0.010%
103	8.581	8.569	8.587	HH	2496	24497	0.10%	0.006%
104	8.597	8.587	8.612	HH	2838	39589	0.15%	0.009%
105	8.634	8.612	8.670	HH	17144	254646	0.99%	0.059%
106	8.681	8.670	8.700	HH	3573	54078	0.21%	0.012%
107	8.732	8.700	8.740	HH	20635	236624	0.92%	0.055%
108	8.747	8.740	8.771	HH	19262	200082	0.78%	0.046%
109	8.774	8.771	8.779	HH	2966	14358	0.06%	0.003%
110	8.801	8.779	8.822	HH	4589	90677	0.35%	0.021%
111	8.852	8.822	8.867	HH	43834	481351	1.87%	0.111%
112	8.901	8.867	8.925	HH	204728	2278125	8.86%	0.525%
113	8.933	8.925	8.950	HH	4659	62080	0.24%	0.014%
114	8.968	8.950	8.984	HH	5323	83767	0.33%	0.019%
115	9.015	8.984	9.070	HH	19249	519411	2.02%	0.120%
116	9.085	9.070	9.110	HH	4976	100032	0.39%	0.023%
117	9.128	9.110	9.157	HH	12859	188583	0.73%	0.043%
118	9.169	9.157	9.186	HH	4763	70785	0.28%	0.016%
119	9.200	9.186	9.222	HH	3609	72839	0.28%	0.017%
120	9.235	9.222	9.242	HH	3163	37822	0.15%	0.009%
121	9.284	9.242	9.307	HH	13173	225355	0.88%	0.052%
122	9.336	9.307	9.357	HH	282381	2783724	10.82%	0.642%
123	9.369	9.357	9.417	HH	21121	331067	1.29%	0.076%
124	9.439	9.417	9.460	HH	12582	203635	0.79%	0.047%
125	9.477	9.460	9.506	HH	8415	177594	0.69%	0.041%
126	9.519	9.506	9.527	HH	5796	66856	0.26%	0.015%
127	9.539	9.527	9.546	HH	6142	68203	0.27%	0.016%
128	9.571	9.546	9.586	HH	30337	429889	1.67%	0.099%
129	9.605	9.586	9.627	HH	160395	1598935	6.22%	0.369%
130	9.638	9.627	9.666	HH	9423	163246	0.63%	0.038%
131	9.690	9.666	9.704	HH	10069	163932	0.64%	0.038%
132	9.736	9.704	9.754	HH	18994	332318	1.29%	0.077%
133	9.778	9.754	9.799	HH	22374	311271	1.21%	0.072%
134	9.805	9.799	9.825	HH	5858	80170	0.31%	0.018%
135	9.838	9.825	9.857	HH	5049	84905	0.33%	0.020%
136	9.893	9.857	9.910	HH	21337	329333	1.28%	0.076%
137	9.925	9.910	9.957	HH	20288	282702	1.10%	0.065%
138	9.982	9.957	9.993	HH	6056	121078	0.47%	0.028%
139	10.030	9.993	10.051	HH	22894	415425	1.61%	0.096%
140	10.069	10.051	10.078	HH	8674	120468	0.47%	0.028%
141	10.086	10.078	10.091	HH	8581	64469	0.25%	0.015%

rteres								
142	10.117	10.091	10.156	HH	269344	2853100	11.09%	0.658%
143	10.195	10.156	10.218	HH	25628	533642	2.07%	0.123%
144	10.234	10.218	10.247	HH	24769	291950	1.13%	0.067%
145	10.267	10.247	10.302	HH	60465	908183	3.53%	0.209%
146	10.327	10.302	10.361	HH	40338	627401	2.44%	0.145%
147	10.382	10.361	10.408	HH	85642	951741	3.70%	0.220%
148	10.433	10.408	10.458	HH	71141	879548	3.42%	0.203%
149	10.491	10.458	10.513	HH	204738	2311399	8.98%	0.533%
150	10.533	10.513	10.578	HH	90373	1348112	5.24%	0.311%
151	10.597	10.578	10.615	HH	22361	332482	1.29%	0.077%
152	10.625	10.615	10.647	HH	11850	179774	0.70%	0.041%
153	10.693	10.647	10.719	HH	11486	399195	1.55%	0.092%
154	10.731	10.719	10.763	HH	9808	194620	0.76%	0.045%
155	10.795	10.763	10.807	HH	7944	184925	0.72%	0.043%
156	10.815	10.807	10.827	HH	7990	90970	0.35%	0.021%
157	10.850	10.827	10.873	HH	15469	295287	1.15%	0.068%
158	10.881	10.873	10.891	HH	9631	99652	0.39%	0.023%
159	10.907	10.891	10.920	HH	15526	219361	0.85%	0.051%
160	10.927	10.920	10.939	HH	11907	123058	0.48%	0.028%
161	10.958	10.939	10.971	HH	24323	336088	1.31%	0.078%
162	10.992	10.971	11.013	HH	57198	823770	3.20%	0.190%
163	11.032	11.013	11.062	HH	35872	526935	2.05%	0.122%
164	11.107	11.062	11.125	HH	39702	745386	2.90%	0.172%
165	11.131	11.125	11.144	HH	21202	220167	0.86%	0.051%
166	11.164	11.144	11.198	HH	75028	1104081	4.29%	0.255%
167	11.204	11.198	11.211	HH	13725	107951	0.42%	0.025%
168	11.227	11.211	11.236	HH	18664	241504	0.94%	0.056%
169	11.244	11.236	11.254	HH	17216	173822	0.68%	0.040%
170	11.276	11.254	11.289	HH	42931	613220	2.38%	0.141%
171	11.318	11.289	11.337	HH	109704	1877245	7.30%	0.433%
172	11.341	11.337	11.360	HH	27695	291626	1.13%	0.067%
173	11.383	11.360	11.392	HH	17391	306122	1.19%	0.071%
174	11.413	11.392	11.432	HH	33250	542369	2.11%	0.125%
175	11.446	11.432	11.468	HH	20743	375740	1.46%	0.087%
176	11.488	11.468	11.494	HH	34930	421136	1.64%	0.097%
177	11.534	11.494	11.566	HH	1854896	24234629	94.20%	5.590%
178	11.598	11.566	11.649	HH	627392	7234087	28.12%	1.669%
179	11.673	11.649	11.707	HH	21530	582779	2.27%	0.134%
180	11.719	11.707	11.738	HH	16675	283272	1.10%	0.065%
181	11.757	11.738	11.772	HH	26671	393933	1.53%	0.091%
182	11.793	11.772	11.836	HH	136576	1819554	7.07%	0.420%
183	11.869	11.836	11.883	HH	18526	439532	1.71%	0.101%
184	11.923	11.883	11.956	HH	216088	2927931	11.38%	0.675%
185	11.982	11.956	11.987	HH	21437	340798	1.32%	0.079%
186	12.036	11.987	12.078	HH	63527	1722594	6.70%	0.397%
187	12.100	12.078	12.129	HH	34319	718872	2.79%	0.166%
188	12.161	12.129	12.182	HH	35068	747361	2.91%	0.172%
189	12.201	12.182	12.224	HH	25844	536232	2.08%	0.124%
190	12.238	12.224	12.248	HH	20155	278853	1.08%	0.064%
191	12.263	12.248	12.279	HH	25128	390833	1.52%	0.090%
192	12.312	12.279	12.327	HH	170981	2205307	8.57%	0.509%
193	12.344	12.327	12.372	HH	242731	2815489	10.94%	0.649%
194	12.379	12.372	12.387	HH	17741	154093	0.60%	0.036%

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195	12.410	12.387	12.418	HH	122127	1345693	5.23%	0.310%
196	12.432	12.418	12.448	HH	244386	2666770	10.37%	0.615%
197	12.461	12.448	12.473	HH	102327	1186075	4.61%	0.274%
198	12.491	12.473	12.512	HH	149299	1935150	7.52%	0.446%
199	12.525	12.512	12.541	HH	27463	393627	1.53%	0.091%
200	12.563	12.541	12.577	HH	37170	631097	2.45%	0.146%
201	12.585	12.577	12.606	HH	30473	459018	1.78%	0.106%
202	12.626	12.606	12.646	HH	28321	571994	2.22%	0.132%
203	12.673	12.646	12.694	HH	111642	1606000	6.24%	0.370%
204	12.700	12.694	12.710	HH	26200	240757	0.94%	0.056%
205	12.718	12.710	12.746	HH	25895	518004	2.01%	0.119%
206	12.773	12.746	12.794	HH	160953	2043323	7.94%	0.471%
207	12.808	12.794	12.817	HH	32600	419531	1.63%	0.097%
208	12.834	12.817	12.857	HH	68053	1000058	3.89%	0.231%
209	12.871	12.857	12.878	HH	24283	287112	1.12%	0.066%
210	12.883	12.878	12.901	HH	24226	320794	1.25%	0.074%
211	12.921	12.901	12.942	HH	38868	729870	2.84%	0.168%
212	12.959	12.942	12.991	HH	31470	771316	3.00%	0.178%
213	13.023	12.991	13.036	HH	44467	888894	3.46%	0.205%
214	13.047	13.036	13.075	HH	38897	723698	2.81%	0.167%
215	13.094	13.075	13.107	HH	58963	824229	3.20%	0.190%
216	13.112	13.107	13.136	HH	44717	597853	2.32%	0.138%
217	13.170	13.136	13.190	HH	95699	1700201	6.61%	0.392%
218	13.225	13.190	13.254	HH	235213	4237559	16.47%	0.977%
219	13.261	13.254	13.301	HH	53228	1340248	5.21%	0.309%
220	13.351	13.301	13.377	HH	1726104	25726613	100.00%	5.934%
221	13.393	13.377	13.410	HH	50311	728368	2.83%	0.168%
222	13.423	13.410	13.438	HH	31370	491104	1.91%	0.113%
223	13.479	13.438	13.493	HH	58023	1410087	5.48%	0.325%
224	13.515	13.493	13.530	HH	106112	1629013	6.33%	0.376%
225	13.538	13.530	13.572	HH	66697	1297579	5.04%	0.299%
226	13.583	13.572	13.602	HH	38217	597090	2.32%	0.138%
227	13.649	13.602	13.665	HH	1514485	21271547	82.68%	4.906%
228	13.683	13.665	13.697	HH	247362	2822055	10.97%	0.651%
229	13.711	13.697	13.744	HH	229451	3155153	12.26%	0.728%
230	13.764	13.744	13.774	HH	35490	610937	2.37%	0.141%
231	13.795	13.774	13.809	HH	88733	1261339	4.90%	0.291%
232	13.829	13.809	13.860	HH	116313	1963987	7.63%	0.453%
233	13.887	13.860	13.912	HH	132563	2100590	8.17%	0.485%
234	13.961	13.912	13.983	HH	68736	1971712	7.66%	0.455%
235	14.016	13.983	14.055	HH	86696	2261974	8.79%	0.522%
236	14.080	14.055	14.105	HH	124364	2234525	8.69%	0.515%
237	14.116	14.105	14.136	HH	37234	643534	2.50%	0.148%
238	14.212	14.136	14.251	HH	271342	6040221	23.48%	1.393%
239	14.271	14.251	14.290	HH	58181	1129827	4.39%	0.261%
240	14.317	14.290	14.340	HH	201909	3185407	12.38%	0.735%
241	14.360	14.340	14.381	HH	145606	2202100	8.56%	0.508%
242	14.414	14.381	14.434	HH	229962	4119058	16.01%	0.950%
243	14.446	14.434	14.452	HH	76481	786388	3.06%	0.181%
244	14.463	14.452	14.473	HH	86015	1004351	3.90%	0.232%
245	14.488	14.473	14.508	HH	126433	1907521	7.41%	0.440%
246	14.528	14.508	14.562	HH	128079	2379712	9.25%	0.549%

rteres								
247	14.599	14.562	14.616	HH	81637	1947606	7.57%	0.449%
248	14.642	14.616	14.661	HH	60314	1486095	5.78%	0.343%
249	14.676	14.661	14.688	HH	53579	840865	3.27%	0.194%
250	14.705	14.688	14.722	HH	60062	1100899	4.28%	0.254%
251	14.733	14.722	14.742	HH	50776	595305	2.31%	0.137%
252	14.758	14.742	14.777	HH	50940	1012217	3.93%	0.233%
253	14.792	14.777	14.826	HH	51562	1398943	5.44%	0.323%
254	14.841	14.826	14.856	HH	47294	824331	3.20%	0.190%
255	14.880	14.856	14.891	HH	75083	1320727	5.13%	0.305%
256	14.907	14.891	14.926	HH	86243	1576745	6.13%	0.364%
257	14.944	14.926	14.965	HH	122928	2044867	7.95%	0.472%
258	14.975	14.965	14.990	HH	60149	863384	3.36%	0.199%
259	15.004	14.990	15.010	HH	63920	765753	2.98%	0.177%
260	15.044	15.010	15.090	HH	75276	2985781	11.61%	0.689%
261	15.121	15.090	15.158	HH	158132	3812210	14.82%	0.879%
262	15.184	15.158	15.208	HH	221266	4307309	16.74%	0.993%
263	15.225	15.208	15.234	HH	126069	1667769	6.48%	0.385%
264	15.248	15.234	15.278	HH	155087	2595442	10.09%	0.599%
265	15.308	15.278	15.332	HH	152432	3094902	12.03%	0.714%
266	15.369	15.332	15.405	HH	107842	3391374	13.18%	0.782%
267	15.411	15.405	15.422	HH	57551	593350	2.31%	0.137%
268	15.453	15.422	15.469	HH	102250	2161994	8.40%	0.499%
269	15.506	15.469	15.526	HH	875199	14107844	54.84%	3.254%
270	15.551	15.526	15.572	HH	785666	10312423	40.08%	2.379%
271	15.582	15.572	15.607	HH	72579	1468712	5.71%	0.339%
272	15.665	15.607	15.698	HH	270199	6275198	24.39%	1.447%
273	15.731	15.698	15.768	HH	132128	3653861	14.20%	0.843%
274	15.792	15.768	15.818	HH	136478	2874277	11.17%	0.663%
275	15.840	15.818	15.875	HH	123660	3583292	13.93%	0.827%
276	15.888	15.875	15.909	HH	101308	1804501	7.01%	0.416%
277	15.936	15.909	15.960	HH	96520	2648084	10.29%	0.611%
278	15.978	15.960	15.997	HH	89467	1779194	6.92%	0.410%
279	16.055	15.997	16.092	HH	93664	4671732	18.16%	1.078%
280	16.119	16.092	16.141	HH	109667	2805446	10.90%	0.647%
281	16.164	16.141	16.184	HH	208403	3527108	13.71%	0.814%
282	16.201	16.184	16.235	HH	140728	3284679	12.77%	0.758%
283	16.254	16.235	16.287	HH	127008	3146095	12.23%	0.726%
284	16.314	16.287	16.325	HH	176196	3228850	12.55%	0.745%
285	16.329	16.325	16.354	HH	165939	2279083	8.86%	0.526%
286	16.398	16.354	16.421	HH	133003	4078404	15.85%	0.941%
287	16.438	16.421	16.456	HH	91662	1864216	7.25%	0.430%
288	16.478	16.456	16.501	HH	117918	2691508	10.46%	0.621%
289	16.529	16.501	16.559	HH	287496	5534246	21.51%	1.276%
290	16.597	16.559	16.621	HH	115180	3830310	14.89%	0.883%
291	16.642	16.621	16.650	HH	92462	1564425	6.08%	0.361%
292	16.659	16.650	16.675	HH	94618	1401571	5.45%	0.323%
293	16.691	16.675	16.704	HH	94725	1612215	6.27%	0.372%
294	16.717	16.704	16.725	HH	94087	1156714	4.50%	0.267%
295	16.754	16.725	16.776	HH	112338	3154920	12.26%	0.728%
296	16.795	16.776	16.813	HH	114923	2351406	9.14%	0.542%
297	16.839	16.813	16.878	HH	142682	4539375	17.64%	1.047%
298	16.907	16.878	16.933	HH	115775	3567350	13.87%	0.823%
299	16.962	16.933	16.984	HH	148582	3878410	15.08%	0.895%

					rteres			
300	17.006	16.984	17.022	HH	128521	2733705	10.63%	0.631%
301	17.070	17.022	17.085	HH	787244	15737693	61.17%	3.630%
302	17.093	17.085	17.120	HH	519694	6029801	23.44%	1.391%
303	17.134	17.120	17.147	HH	119684	1886059	7.33%	0.435%
304	17.188	17.147	17.207	HH	280539	6330112	24.61%	1.460%
305	17.217	17.207	17.235	HH	146304	2251555	8.75%	0.519%
306	17.247	17.235	17.267	HH	133467	2532480	9.84%	0.584%
307	17.278	17.267	17.290	HH	135018	1793902	6.97%	0.414%
308	17.307	17.290	17.320	HH	148777	2587042	10.06%	0.597%
309	17.338	17.320	17.350	HH	161353	2743570	10.66%	0.633%
310	17.390	17.350	17.413	HH	576614	11657904	45.31%	2.689%
311	17.454	17.413	17.461	HHA	826826	12839561	49.91%	2.961%
					Sum of corrected areas:		433549302	

FE012325.M Mon Feb 03 02:20:30 2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
.BLK		FE052167.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:08:00 PM	Peak Integrated by Software incorrectly
PB166415BS		FE052172.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:23 PM	Peak Integrated by Software incorrectly
PB166415BS		FE052172.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:23 PM	Peak Integrated by Software incorrectly
Q1241-13		FE052176.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:25 PM	Peak Integrated by Software incorrectly
Q1242-01		FE052178.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:26 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052180.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:28 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052180.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:28 PM	Peak Integrated by Software incorrectly
Q1241-05		FE052184.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:30 PM	Peak Integrated by Software incorrectly
Q1241-09		FE052185.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:31 PM	Peak Integrated by Software incorrectly
Q1241-17		FE052187.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:33 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052190.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:34 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-TRIACONTANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
PB166433BS		FE052195.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:37 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-HEXATRIACONTANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-TETRATRIACONTANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-HEXATRIACONTANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly

Manual Integration Report

.BLK		FE052200.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:42 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052201.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:43 PM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q1232-01		FG015275.D	FG013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:06:45 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG015283.D	FG013125	N-HEXACOSANE	Ankita	2/3/2025 1:06:46 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG015283.D	FG013125	N-OCTACOSANE	Ankita	2/3/2025 1:06:46 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG015292.D	FG013125	N-OCTACOSANE	Ankita	2/3/2025 1:06:47 PM	Peak Integrated by Software incorrectly

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE012325

Review By	yogesh	Review On	1/23/2025 3:09:47 PM
Supervise By	sohil	Supervise On	1/24/2025 2:02:13 PM
SubDirectory	FE012325	HP Acquire Method	HP Processing Method FE012325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052025.D	23 Jan 2025 21:06	YP\AJ	Ok
2	I.BLK	FE052026.D	23 Jan 2025 21:35	YP\AJ	Ok
3	100 TRPH STD	FE052027.D	23 Jan 2025 22:06	YP\AJ	Ok
4	50 TRPH STD	FE052028.D	23 Jan 2025 23:06	YP\AJ	Ok
5	20 TRPH STD	FE052029.D	23 Jan 2025 23:36	YP\AJ	Ok
6	10 TRPH STD	FE052030.D	24 Jan 2025 00:06	YP\AJ	Ok
7	5 TRPH STD	FE052031.D	24 Jan 2025 00:36	YP\AJ	Ok
8	FE012325ICV	FE052032.D	24 Jan 2025 01:06	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM
SubDirectory	FE013125	HP Acquire Method	HP Processing Method FE012325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052166.D	31 Jan 2025 09:26	YP\AJ	Ok
2	I.BLK	FE052167.D	31 Jan 2025 09:56	YP\AJ	Ok,M
3	50 PPM TRPH STD	FE052168.D	31 Jan 2025 10:26	YP\AJ	Ok
4	RT MARKER	FE052169.D	31 Jan 2025 11:07	YP\AJ	Ok
5	PP24162	FE052170.D	31 Jan 2025 11:37	YP\AJ	Ok
6	PB166415BL	FE052171.D	31 Jan 2025 12:08	YP\AJ	Ok
7	PB166415BS	FE052172.D	31 Jan 2025 12:38	YP\AJ	Ok,M
8	Q1241-01	FE052173.D	31 Jan 2025 13:08	YP\AJ	Dilution
9	Q1241-05	FE052174.D	31 Jan 2025 13:38	YP\AJ	Dilution
10	Q1241-09	FE052175.D	31 Jan 2025 14:08	YP\AJ	Dilution
11	Q1241-13	FE052176.D	31 Jan 2025 14:39	YP\AJ	Dilution
12	Q1241-17	FE052177.D	31 Jan 2025 15:09	YP\AJ	Dilution
13	Q1242-01	FE052178.D	31 Jan 2025 15:39	YP\AJ	Dilution
14	I.BLK	FE052179.D	31 Jan 2025 16:09	YP\AJ	Ok
15	50 PPM TRPH STD	FE052180.D	31 Jan 2025 16:40	YP\AJ	Ok,M
16	Q1241-05MS	FE052181.D	31 Jan 2025 17:10	YP\AJ	Ok
17	Q1241-05MSD	FE052182.D	31 Jan 2025 17:40	YP\AJ	Ok
18	Q1241-01	FE052183.D	31 Jan 2025 18:11	YP\AJ	Ok
19	Q1241-05	FE052184.D	31 Jan 2025 18:41	YP\AJ	Ok,M
20	Q1241-09	FE052185.D	31 Jan 2025 19:11	YP\AJ	Ok,M
21	Q1241-13	FE052186.D	31 Jan 2025 19:41	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM
SubDirectory	FE013125	HP Acquire Method	HP Processing Method FE012325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

22	Q1241-17	FE052187.D	31 Jan 2025 20:12	YP\AJ	Ok,M
23	Q1242-01	FE052188.D	31 Jan 2025 20:42	YP\AJ	Ok
24	I.BLK	FE052189.D	31 Jan 2025 21:12	YP\AJ	Ok
25	50 PPM TRPH STD	FE052190.D	31 Jan 2025 22:12	YP\AJ	Ok,M
26	I.BLK	FE052191.D	31 Jan 2025 23:13	YP\AJ	Ok
27	50 PPM TRPH STD	FE052192.D	01 Feb 2025 00:13	YP\AJ	Ok,M
28	RT MARKER	FE052193.D	01 Feb 2025 01:14	YP\AJ	Ok
29	PB166433BL	FE052194.D	01 Feb 2025 02:14	YP\AJ	Ok
30	PB166433BS	FE052195.D	01 Feb 2025 02:44	YP\AJ	Ok,M
31	Q1236-01	FE052196.D	01 Feb 2025 03:15	YP\AJ	Ok
32	Q1236-01MS	FE052197.D	01 Feb 2025 03:45	YP\AJ	Ok,M
33	Q1236-01MSD	FE052198.D	01 Feb 2025 04:15	YP\AJ	Ok,M
34	Q1236-01	FE052199.D	01 Feb 2025 04:45	YP\AJ	Not Ok
35	I.BLK	FE052200.D	01 Feb 2025 05:15	YP\AJ	Ok,M
36	50 PPM TRPH STD	FE052201.D	01 Feb 2025 06:15	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG011325

Review By	yogesh	Review On	1/13/2025 12:01:44 PM
Supervise By	Ankita	Supervise On	1/14/2025 8:47:57 AM
SubDirectory	FG011325	HP Acquire Method	HP Processing Method FG011325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015054.D	13 Jan 2025 08:20	YP\AJ	Ok
2	I.BLK	FG015055.D	13 Jan 2025 08:49	YP\AJ	Ok
3	100 TRPH STD	FG015056.D	13 Jan 2025 09:17	YP\AJ	Not Ok
4	50 TRPH STD	FG015057.D	13 Jan 2025 09:45	YP\AJ	Ok
5	20 TRPH STD	FG015058.D	13 Jan 2025 10:14	YP\AJ	Ok
6	10 TRPH STD	FG015059.D	13 Jan 2025 10:42	YP\AJ	Ok
7	5 TRPH STD	FG015060.D	13 Jan 2025 11:11	YP\AJ	Ok
8	100 TRPH STD	FG015061.D	13 Jan 2025 11:39	YP\AJ	Ok
9	FG011325ICV	FG015062.D	13 Jan 2025 12:07	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013125

Review By	yogesh	Review On	1/31/2025 9:26:31 AM
Supervise By	Ankita	Supervise On	2/3/2025 1:06:52 PM
SubDirectory	FG013125	HP Acquire Method	HP Processing Method FG011325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015271.D	31 Jan 2025 07:43	YP\AJ	Ok
2	I.BLK	FG015272.D	31 Jan 2025 11:03	YP\AJ	Ok
3	50 PPM TRPH STD	FG015273.D	31 Jan 2025 11:32	YP\AJ	Ok
4	RT MARKER	FG015274.D	31 Jan 2025 12:00	YP\AJ	Ok
5	Q1232-01	FG015275.D	31 Jan 2025 12:29	YP\AJ	Dilution
6	Q1232-05	FG015276.D	31 Jan 2025 12:57	YP\AJ	Dilution
7	Q1232-09	FG015277.D	31 Jan 2025 13:26	YP\AJ	Dilution
8	Q1232-13	FG015278.D	31 Jan 2025 13:54	YP\AJ	Dilution
9	Q1232-17	FG015279.D	31 Jan 2025 14:23	YP\AJ	Dilution
10	Q1235-01	FG015280.D	31 Jan 2025 14:51	YP\AJ	Dilution
11	Q1235-05	FG015281.D	31 Jan 2025 15:20	YP\AJ	Dilution
12	I.BLK	FG015282.D	31 Jan 2025 15:48	YP\AJ	Ok
13	50 PPM TRPH STD	FG015283.D	31 Jan 2025 16:17	YP\AJ	Ok,M
14	Q1232-01	FG015284.D	31 Jan 2025 18:11	YP\AJ	Ok
15	Q1232-05	FG015285.D	31 Jan 2025 18:39	YP\AJ	Ok
16	Q1232-09	FG015286.D	31 Jan 2025 19:08	YP\AJ	Ok
17	Q1232-13	FG015287.D	31 Jan 2025 19:36	YP\AJ	Ok
18	Q1232-17	FG015288.D	31 Jan 2025 20:05	YP\AJ	Ok
19	Q1235-01	FG015289.D	31 Jan 2025 20:33	YP\AJ	Ok
20	Q1235-05	FG015290.D	31 Jan 2025 21:02	YP\AJ	Ok
21	I.BLK	FG015291.D	31 Jan 2025 21:30	YP\AJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013125

Review By	yogesh	Review On	1/31/2025 9:26:31 AM
Supervise By	Ankita	Supervise On	2/3/2025 1:06:52 PM
SubDirectory	FG013125	HP Acquire Method	HP Processing Method FG011325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

22	50 PPM TRPH STD	FG015292.D	31 Jan 2025 22:27	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE012325

Review By	yogesh	Review On	1/23/2025 3:09:47 PM
Supervise By	sohil	Supervise On	1/24/2025 2:02:13 PM
SubDirectory	FE012325	HP Acquire Method	HP Processing Method FE012325

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		FE052025.D	23 Jan 2025 21:06		YP\AJ	Ok
2	I.BLK		FE052026.D	23 Jan 2025 21:35		YP\AJ	Ok
3	100 TRPH STD		FE052027.D	23 Jan 2025 22:06		YP\AJ	Ok
4	50 TRPH STD		FE052028.D	23 Jan 2025 23:06		YP\AJ	Ok
5	20 TRPH STD		FE052029.D	23 Jan 2025 23:36		YP\AJ	Ok
6	10 TRPH STD		FE052030.D	24 Jan 2025 00:06		YP\AJ	Ok
7	5 TRPH STD		FE052031.D	24 Jan 2025 00:36		YP\AJ	Ok
8	FE012325ICV		FE052032.D	24 Jan 2025 01:06		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM
SubDirectory	FE013125	HP Acquire Method	HP Processing Method FE012325

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		FE052166.D	31 Jan 2025 09:26		YPIAJ	Ok
2	I.BLK		FE052167.D	31 Jan 2025 09:56		YPIAJ	Ok,M
3	50 PPM TRPH STD		FE052168.D	31 Jan 2025 10:26		YPIAJ	Ok
4	RT MARKER		FE052169.D	31 Jan 2025 11:07		YPIAJ	Ok
5	PP24162		FE052170.D	31 Jan 2025 11:37		YPIAJ	Ok
6	PB166415BL		FE052171.D	31 Jan 2025 12:08		YPIAJ	Ok
7	PB166415BS		FE052172.D	31 Jan 2025 12:38		YPIAJ	Ok,M
8	Q1241-01		FE052173.D	31 Jan 2025 13:08	need 10x dilution	YPIAJ	Dilution
9	Q1241-05		FE052174.D	31 Jan 2025 13:38	need 10x dilution	YPIAJ	Dilution
10	Q1241-09		FE052175.D	31 Jan 2025 14:08	need 10x dilution	YPIAJ	Dilution
11	Q1241-13		FE052176.D	31 Jan 2025 14:39	need 10x dilution	YPIAJ	Dilution
12	Q1241-17		FE052177.D	31 Jan 2025 15:09	need 10x dilution	YPIAJ	Dilution
13	Q1242-01		FE052178.D	31 Jan 2025 15:39	need 10x dilution	YPIAJ	Dilution
14	I.BLK		FE052179.D	31 Jan 2025 16:09		YPIAJ	Ok
15	50 PPM TRPH STD		FE052180.D	31 Jan 2025 16:40		YPIAJ	Ok,M
16	Q1241-05MS		FE052181.D	31 Jan 2025 17:10		YPIAJ	Ok
17	Q1241-05MSD		FE052182.D	31 Jan 2025 17:40		YPIAJ	Ok
18	Q1241-01		FE052183.D	31 Jan 2025 18:11		YPIAJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM	
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM	
SubDirectory	FE013125	HP Acquire Method	HP Processing Method	FE012325
STD. NAME	STD REF.#			
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966			
CCC Internal Standard/PEM	PP23963			
ICV/I.BLK Surrogate Standard	PP23962,PP23967			
MS/MSD Standard LCS Standard				

19	Q1241-05		FE052184.D	31 Jan 2025 18:41		YPIAJ	Ok,M
20	Q1241-09		FE052185.D	31 Jan 2025 19:11		YPIAJ	Ok,M
21	Q1241-13		FE052186.D	31 Jan 2025 19:41		YPIAJ	Ok
22	Q1241-17		FE052187.D	31 Jan 2025 20:12		YPIAJ	Ok,M
23	Q1242-01		FE052188.D	31 Jan 2025 20:42		YPIAJ	Ok
24	I.BLK		FE052189.D	31 Jan 2025 21:12		YPIAJ	Ok
25	50 PPM TRPH STD		FE052190.D	31 Jan 2025 22:12		YPIAJ	Ok,M
26	I.BLK		FE052191.D	31 Jan 2025 23:13		YPIAJ	Ok
27	50 PPM TRPH STD		FE052192.D	01 Feb 2025 00:13		YPIAJ	Ok,M
28	RT MARKER		FE052193.D	01 Feb 2025 01:14		YPIAJ	Ok
29	PB166433BL		FE052194.D	01 Feb 2025 02:14		YPIAJ	Ok
30	PB166433BS		FE052195.D	01 Feb 2025 02:44		YPIAJ	Ok,M
31	Q1236-01		FE052196.D	01 Feb 2025 03:15		YPIAJ	Ok
32	Q1236-01MS		FE052197.D	01 Feb 2025 03:45		YPIAJ	Ok,M
33	Q1236-01MSD		FE052198.D	01 Feb 2025 04:15		YPIAJ	Ok,M
34	Q1236-01		FE052199.D	01 Feb 2025 04:45	not required	YPIAJ	Not Ok
35	I.BLK		FE052200.D	01 Feb 2025 05:15		YPIAJ	Ok,M
36	50 PPM TRPH STD		FE052201.D	01 Feb 2025 06:15		YPIAJ	Ok,M

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG011325

Review By	yogesh	Review On	1/13/2025 12:01:44 PM
Supervise By	Ankita	Supervise On	1/14/2025 8:47:57 AM
SubDirectory	FG011325	HP Acquire Method	HP Processing Method FG011325

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		FG015054.D	13 Jan 2025 08:20		YP\AJ	Ok
2	I.BLK		FG015055.D	13 Jan 2025 08:49		YP\AJ	Ok
3	100 TRPH STD		FG015056.D	13 Jan 2025 09:17	NOT USE	YP\AJ	Not Ok
4	50 TRPH STD		FG015057.D	13 Jan 2025 09:45		YP\AJ	Ok
5	20 TRPH STD		FG015058.D	13 Jan 2025 10:14		YP\AJ	Ok
6	10 TRPH STD		FG015059.D	13 Jan 2025 10:42		YP\AJ	Ok
7	5 TRPH STD		FG015060.D	13 Jan 2025 11:11		YP\AJ	Ok
8	100 TRPH STD		FG015061.D	13 Jan 2025 11:39		YP\AJ	Ok
9	FG011325ICV		FG015062.D	13 Jan 2025 12:07		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013125

Review By	yogesh	Review On	1/31/2025 9:26:31 AM
Supervise By	Ankita	Supervise On	2/3/2025 1:06:52 PM
SubDirectory	FG013125	HP Acquire Method	HP Processing Method FG011325

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		FG015271.D	31 Jan 2025 07:43		YPIAJ	Ok
2	I.BLK		FG015272.D	31 Jan 2025 11:03		YPIAJ	Ok
3	50 PPM TRPH STD		FG015273.D	31 Jan 2025 11:32		YPIAJ	Ok
4	RT MARKER		FG015274.D	31 Jan 2025 12:00		YPIAJ	Ok
5	Q1232-01		FG015275.D	31 Jan 2025 12:29	need 10x dilution	YPIAJ	Dilution
6	Q1232-05		FG015276.D	31 Jan 2025 12:57	need 10x dilution	YPIAJ	Dilution
7	Q1232-09		FG015277.D	31 Jan 2025 13:26	need 10x dilution	YPIAJ	Dilution
8	Q1232-13		FG015278.D	31 Jan 2025 13:54	need 10x dilution	YPIAJ	Dilution
9	Q1232-17		FG015279.D	31 Jan 2025 14:23	need 10x dilution	YPIAJ	Dilution
10	Q1235-01		FG015280.D	31 Jan 2025 14:51	need 10x dilution	YPIAJ	Dilution
11	Q1235-05		FG015281.D	31 Jan 2025 15:20	need 10x dilution	YPIAJ	Dilution
12	I.BLK		FG015282.D	31 Jan 2025 15:48		YPIAJ	Ok
13	50 PPM TRPH STD		FG015283.D	31 Jan 2025 16:17		YPIAJ	Ok,M
14	Q1232-01		FG015284.D	31 Jan 2025 18:11		YPIAJ	Ok
15	Q1232-05		FG015285.D	31 Jan 2025 18:39		YPIAJ	Ok
16	Q1232-09		FG015286.D	31 Jan 2025 19:08		YPIAJ	Ok
17	Q1232-13		FG015287.D	31 Jan 2025 19:36		YPIAJ	Ok
18	Q1232-17		FG015288.D	31 Jan 2025 20:05		YPIAJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013125

Review By	yogesh	Review On	1/31/2025 9:26:31 AM
Supervise By	Ankita	Supervise On	2/3/2025 1:06:52 PM
SubDirectory	FG013125	HP Acquire Method	HP Processing Method FG011325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM	PP23962,PP23967		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1235-01		FG015289.D	31 Jan 2025 20:33		YP\AJ	Ok
20	Q1235-05		FG015290.D	31 Jan 2025 21:02		YP\AJ	Ok
21	I.BLK		FG015291.D	31 Jan 2025 21:30		YP\AJ	Ok
22	50 PPM TRPH STD		FG015292.D	31 Jan 2025 22:27		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 01/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134481

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
Q1215-01	JPP-29.1-012825	1	1.15	8.54	9.69	8.75	89.0	
Q1215-03	JPP-29.1-012825	2	1.16	8.48	9.64	8.69	88.8	
Q1215-05	JPP-29.2-012825	3	1.19	8.70	9.89	8.77	87.1	
Q1215-07	JPP-29.2-012825	4	1.15	8.63	9.78	8.81	88.8	
Q1216-01	JPP-18.1-012825	5	1.19	8.45	9.64	8.05	81.2	
Q1216-03	JPP-18.1-012825	6	1.16	8.82	9.98	8.51	83.3	
Q1216-05	JPP-21.1-012825	7	1.15	8.40	9.55	8.83	91.4	
Q1216-07	JPP-21.1-012825	8	1.15	8.75	9.9	9.06	90.4	
Q1216-09	JPP-21.2-012825	9	1.19	8.42	9.61	8.29	84.3	
Q1216-11	JPP-21.2-012825	10	1.15	8.36	9.51	8.2	84.3	
Q1216-13	JPP-26.1-012825	11	1.19	8.46	9.65	7.87	79.0	
Q1216-15	JPP-26.1-012825	12	1.17	8.76	9.93	8.42	82.8	
Q1216-17	JPP-26.2-012825	13	1.16	8.63	9.79	8.52	85.3	
Q1216-19	JPP-26.2-012825	14	1.17	8.51	9.68	8.47	85.8	
Q1232-01	JPP-46.2-012925	15	1.12	8.77	9.89	8.99	89.7	
Q1232-03	JPP-46.2-012925	16	1.15	8.37	9.52	8.62	89.2	
Q1232-05	JPP-46.1-012925	17	1.17	8.50	9.67	9.14	93.8	
Q1232-07	JPP-46.1-012925	18	1.15	8.72	9.87	9.35	94.0	
Q1232-09	JPP-42.1-012925	19	1.14	8.37	9.51	8.56	88.6	
Q1232-11	JPP-42.1-012925	20	1.19	8.43	9.62	8.62	88.1	
Q1232-13	JPP-42.2-012925	21	1.15	8.50	9.65	8.98	92.1	
Q1232-15	JPP-42.2-012925	22	1.15	8.37	9.52	8.95	93.2	
Q1232-17	JPP-51.1-012925	23	1.19	8.42	9.61	9.14	94.4	
Q1232-19	JPP-51.1-012925	24	1.12	8.75	9.87	9.44	95.1	
Q1233-01	WIPE-1	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q1233-02	WIPE-2	26	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q1235-01	JPP-51.2-012925	27	1.15	8.60	9.75	8.99	91.2	
Q1235-03	JPP-51.2-012925	28	1.15	8.51	9.66	8.96	91.8	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 01/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134481

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
Q1235-05	JPP-16.1-012925	29	1.15	8.75	9.9	8.94	89.0	
Q1235-07	JPP-16.1-012925	30	1.12	8.77	9.89	8.94	89.2	
Q1237-01	HL6PX1	31	1.16	8.53	9.69	9.27	95.1	
Q1237-02	HL6PX2	32	1.16	8.70	9.86	9.28	93.3	
Q1237-03	HL6PX3	33	1.15	8.82	9.97	9.27	92.1	
Q1237-04	HL6PX4	34	1.15	8.78	9.93	9.43	94.3	
Q1237-05	HL6PX5	35	1.17	8.54	9.71	9.33	95.6	
Q1237-06	HL6PX6	36	1.17	8.57	9.74	9.07	92.2	
Q1239-01	286	37	1.14	8.49	9.63	8.68	88.8	
Q1239-04	348	38	1.14	8.83	9.97	9.00	89.0	
Q1239-07	RBR22266	39	1.17	8.74	9.91	9.00	89.6	
Q1239-10	357	40	1.16	8.80	9.96	8.62	84.8	
Q1240-01	MEG-OIL	41	1.00	1.00	2.00	2.00	100.0	oil sample

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

WORKLIST(Hardcopy Internal Chain)

13448

WorkList Name : %1-013025

WorkList ID : 187270

Department : Wet-Chemistry

Date : 01-30-2025 07:55:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1215-01	JPP-29.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1215-03	JPP-29.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1215-05	JPP-29.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1215-07	JPP-29.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-01	JPP-18.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-03	JPP-18.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-05	JPP-21.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-07	JPP-21.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-09	JPP-21.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-11	JPP-21.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-13	JPP-26.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-15	JPP-26.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-17	JPP-26.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-19	JPP-26.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1232-01	JPP-46.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1232-03	JPP-46.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-05	JPP-46.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-07	JPP-46.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-09	JPP-42.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-11	JPP-42.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-13	JPP-42.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO

Date/Time 01/30/25 15:20

Raw Sample Received by: SD WCI

Raw Sample Relinquished by: CSM

Date/Time 01/30/25

Raw Sample Received by: CF

Raw Sample Relinquished by: SD WCI

WORKLIST(Hardcopy Internal Chain)

134481

WorkList Name : %1-013025

WorkList ID : 187270

Department : Wet-Chemistry

Date : 01-30-2025 07:55:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1232-15	JPP-42.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-17	JPP-51.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-19	JPP-51.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1233-01	WIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/30/2025	Chemtech -SO
Q1233-02	WIPE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/30/2025	Chemtech -SO
Q1235-01	JPP-51.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1235-03	JPP-51.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1235-05	JPP-16.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1235-07	JPP-16.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1237-01	HL6PX1	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-02	HL6PX2	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-03	HL6PX3	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-04	HL6PX4	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-05	HL6PX5	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-06	HL6PX6	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1239-01	286	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1239-04	348	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1239-07	RBR22266	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1239-10	357	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1240-01	MEG-OIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/30/2025	Chemtech -SO

Date/Time 01/30/25 15:20
 Raw Sample Received by: JB WCI
 Raw Sample Relinquished by: cf gm

Date/Time 01/30/25 17:10
 Raw Sample Received by: cf sm
 Raw Sample Relinquished by: JB WCI

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	01/31/2025
Matrix :	Solid	Extraction Start Time :	08:50
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
		Concentration By:	EH
		Supervisor By :	rajesh

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP23913
Surrogate	1.0ML	20 PPM	PP23935
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	EP2578
Baked Na2SO4	N/A	EP2580
Sand	N/A	E2865
Methylene Chloride	N/A	E3874
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

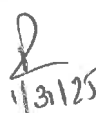
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/31/25	RP (Ext. Lab)	J.P. Pestipog
11:55	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 01/31/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166415BL	PB166415BL	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1			U2-1
PB166415BS	PB166415BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
Q1232-01	JPP-46.2-012925	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	I		3
Q1232-05	JPP-46.1-012925	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	I		4
Q1232-09	JPP-42.1-012925	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	I		5
Q1232-13	JPP-42.2-012925	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	I		6
Q1232-17	JPP-51.1-012925	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	I		U3-1
Q1235-01	JPP-51.2-012925	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	I		2
Q1235-05	JPP-16.1-012925	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	I		3
Q1241-01	JPP-3.5-013025	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	I		4
Q1241-05	JPP-5.3-013025	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	I		5
Q1241-05MS	JPP-5.3-013025MS	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	I		6
Q1241-05MS D	JPP-5.3-013025MSD	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	I		U4-1
Q1241-09	JPP-5.2-013025	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	I		2
Q1241-13	JPP-5.4-013025	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	I		3
Q1241-17	JPP-51.4-013025	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	I		4
Q1242-01	JPP-6.2-013025	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	I		5

* Extracts relinquished on the same date as received.



66415
8:50

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1241

WorkList ID : 187331

Department : Extraction

Date : 01-31-2025 08:13:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1232-01	JPP-46.2-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-05	JPP-46.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-09	JPP-42.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-13	JPP-42.2-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-17	JPP-51.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1235-01	JPP-51.2-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1235-05	JPP-16.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1241-01	JPP-3.5-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-05	JPP-5.3-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-09	JPP-5.2-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-13	JPP-5.4-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-17	JPP-51.4-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1242-01	JPP-6.2-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D

Date/Time 01/31/25 8:45

Raw Sample Received by: RS (Det Lab)

Raw Sample Relinquished by: Q Sm

Q1235-Diesel Range Organics

Date/Time 01/31/25 9:10

Raw Sample Received by: CP Sm

Raw Sample Relinquished by: RS (Det Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1235
Test : Diesel Range Organics
Prepbatch ID : PB166415,
Sequence ID/Qc Batch ID: FG013125,FE013125,

Standard ID :
EP2578,EP2580,PP23913,PP23935,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,

Chemical ID :
E2865,E3551,E3822,E3828,E3846,E3848,E3874,P11958,P11959,P13104,P13109,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3796	100/100 PPM DRO STD (CPI)	PP23962	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3797	50 PPM DRO ICV STD (CPI)	PP23967	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani
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-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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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

CHEMICAL RECEIPT LOG BOOK

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)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

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

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	02/14/2025	08/14/2024 / yogesh	01/31/2024 / Ankita	P13218

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

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

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

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

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

Sand
Purified
Washed and Ignited



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

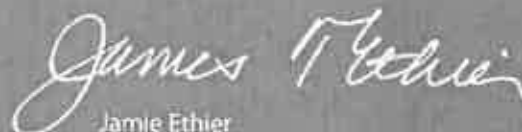
Certificate of Analysis

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

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

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

E 2865


Jamie Ethier
Vice President Global Quality

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

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



**PRODUCTOS
QUÍMICOS
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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

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

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

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

RC-02-01, Ed. 3

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

avantor™



Material No.: 9266-A4
Batch No.: 24I2662006
Manufactured Date: 2024-08-29
Expiration Date: 2025-11-28
Revision No.: 0

Certificate of Analysis

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

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

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

E 3822

Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

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

Rec'd by RP On 12/13/24

E 3846

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)



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 ₂ Cl 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
Titration 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


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

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

Avantor

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
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	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

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

E 3874



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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31266 Lot No.: A0186840
Description: Florida TRPH Standard
Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: July 31, 2029 Storage: 25°C nominal
Handling: Sonicate prior to use. Ship: Ambient

P11948
L
P11962 } 7.0
07/11

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

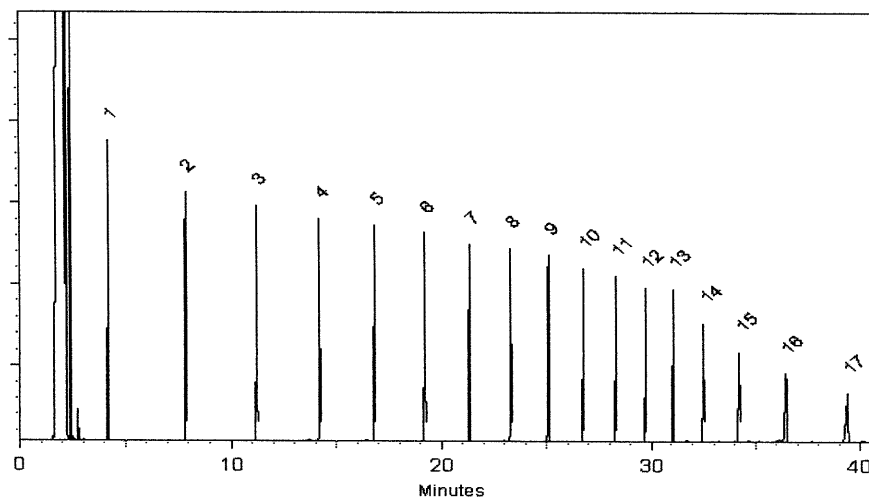
Carrier Gas:
hydrogen-constant pressure 10 psi.

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
Brittany Federinko - Operations Tech I

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

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266 Lot No.: A0186840
Description : Florida TRPH Standard
Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2029 Storage: 25°C nominal
Handling: Sonicate prior to use. Ship: Ambient

P11948
L } 7.0
P11962 } 07/11

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

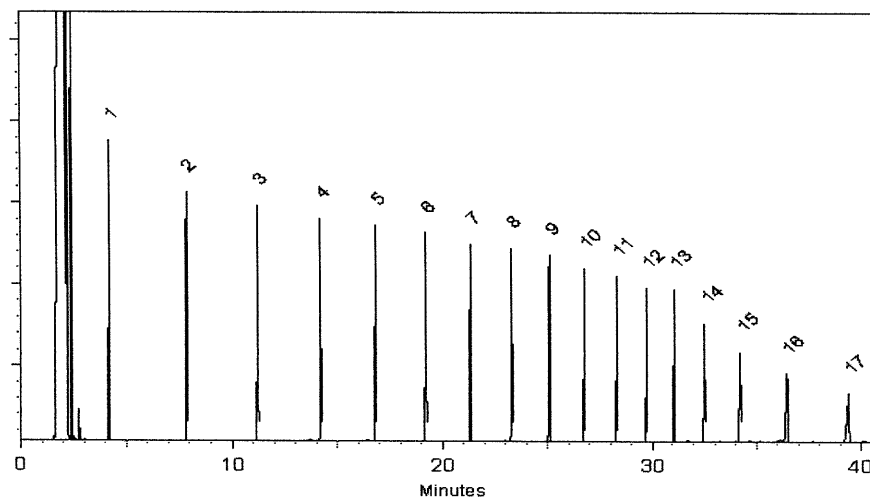
Carrier Gas:
hydrogen-constant pressure 10 psi.

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
Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
 hydrogen-constant pressure 10 psi.

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

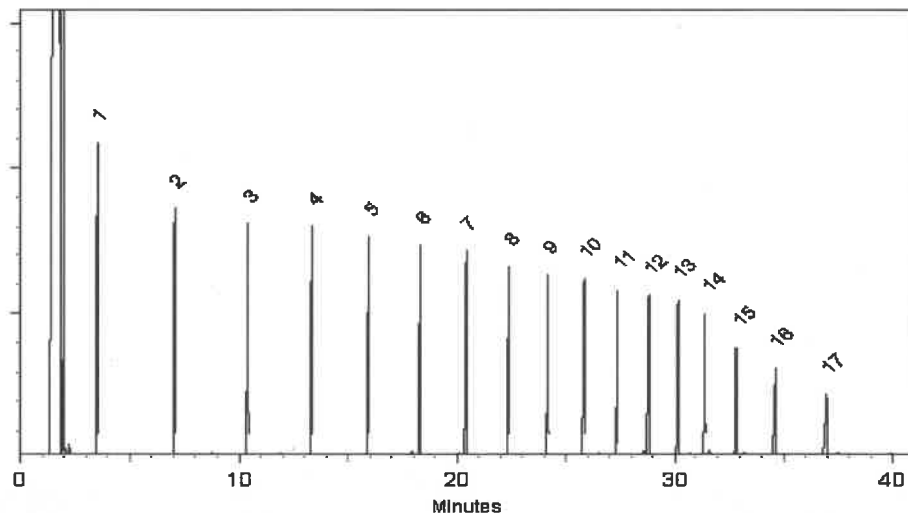
Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID

Split Vent:
 2 ml/min.

Inj. Vol
 1µl



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

[Signature]
 Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023 **Balance Serial #** B442140311

[Signature]
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
 hydrogen-constant pressure 10 psi.

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

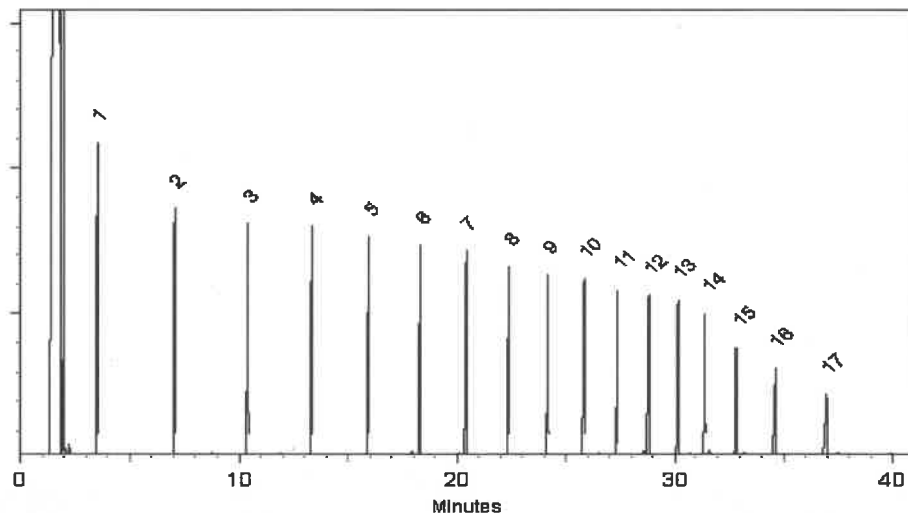
Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID

Split Vent:
 2 ml/min.

Inj. Vol
 1µl



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

[Signature]
 Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023 **Balance Serial #** B442140311

[Signature]
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED WEIGHT REPORT

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

Solvent(s):
 Methylene chloride

Lot#
 105345

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

Expiration Date: 101132

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

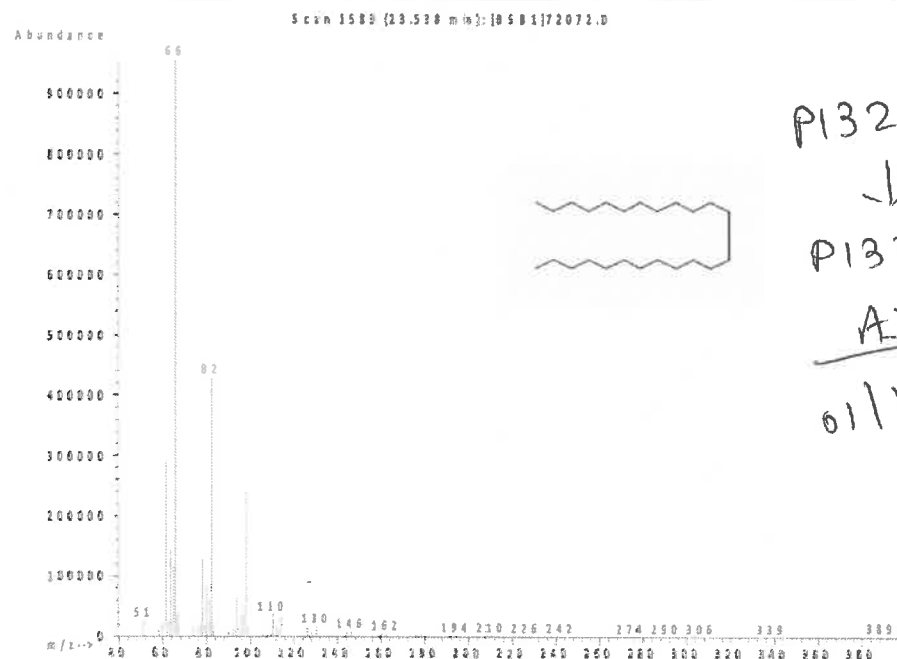
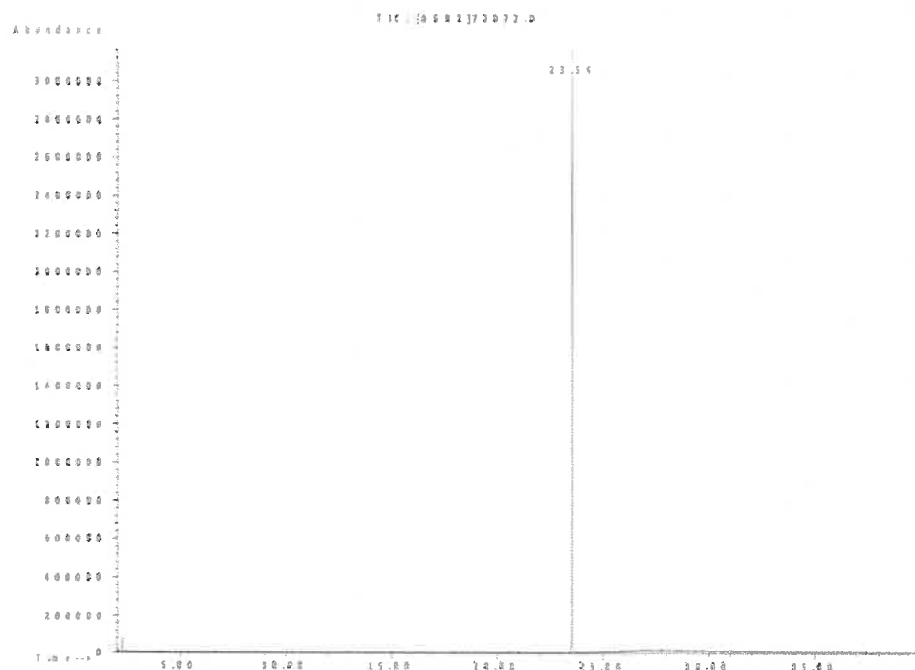
NIST Test ID#: 6UTB

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.



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).



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 514983 ≤ -10 Degrees C Hexane 11/20/2028 TRPH Standard (C8-C40), 500 mg/L, 1 ml
-01

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 $\pm$ 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 $\pm$ 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 $\pm$ 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 $\pm$ 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 $\pm$ 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 $\pm$ 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 $\pm$ 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 $\pm$ 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 $\pm$ 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 $\pm$ 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 $\pm$ 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 $\pm$ 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 $\pm$ 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 $\pm$ 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 $\pm$ 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 $\pm$ 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 $\pm$ 6.94

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

Certified By: _____

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 gravimetrically.

*Not a certified value



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 514983 ≤ -10 Degrees C Hexane 11/20/2028 TRPH Standard (C8-C40), 500 mg/L, 1 ml
-01

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 $\pm$ 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 $\pm$ 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 $\pm$ 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 $\pm$ 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 $\pm$ 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 $\pm$ 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 $\pm$ 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 $\pm$ 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 $\pm$ 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 $\pm$ 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 $\pm$ 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 $\pm$ 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 $\pm$ 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 $\pm$ 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 $\pm$ 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 $\pm$ 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 $\pm$ 6.94

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

Certified By: _____

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 gravimetrically.

*Not a certified value

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1848M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19280	4000	98	0.2	2.04093	2.04159	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04158	4001.2	15.4	1503-58-3	N/A	N/A	N/A

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

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

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

Peak No.	Name	FID RT (min)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

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

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2

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



CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

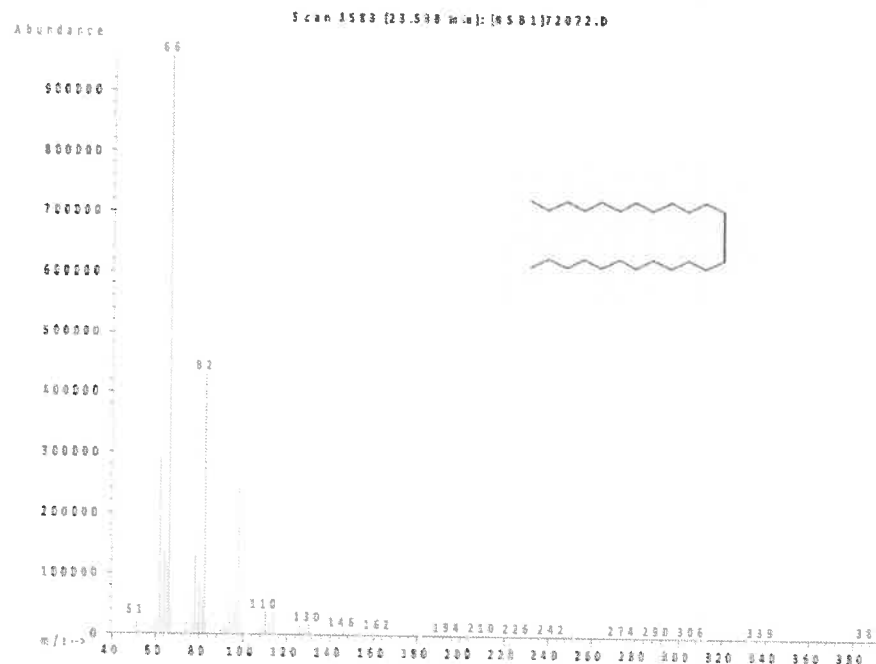
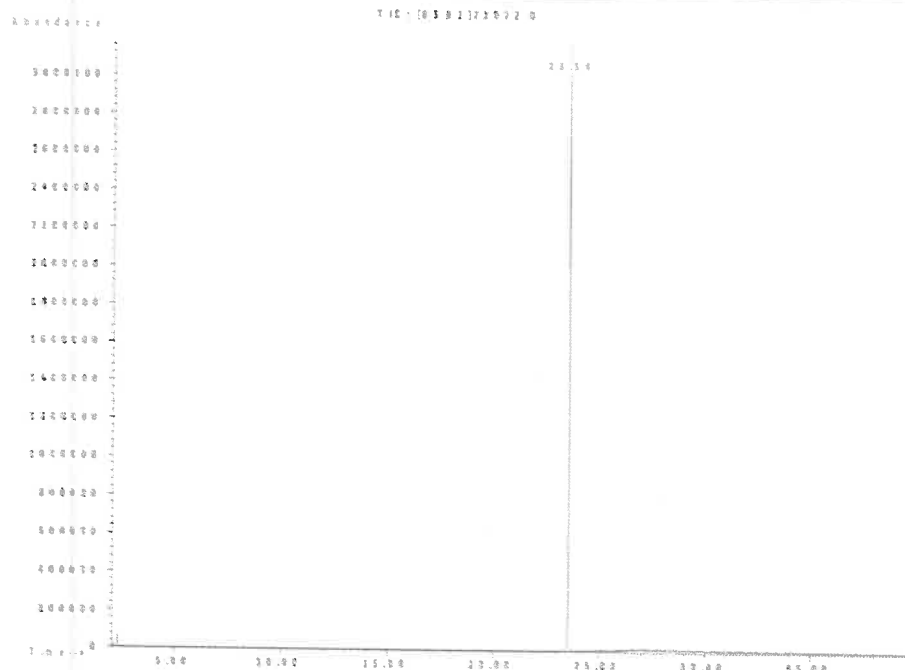
*P13477 } x.p.
↓
P13496 } 07/24/24*

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
											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 $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1848M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19280	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

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

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

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

Peak No.	Name	FID RT (min)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

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

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2

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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



CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

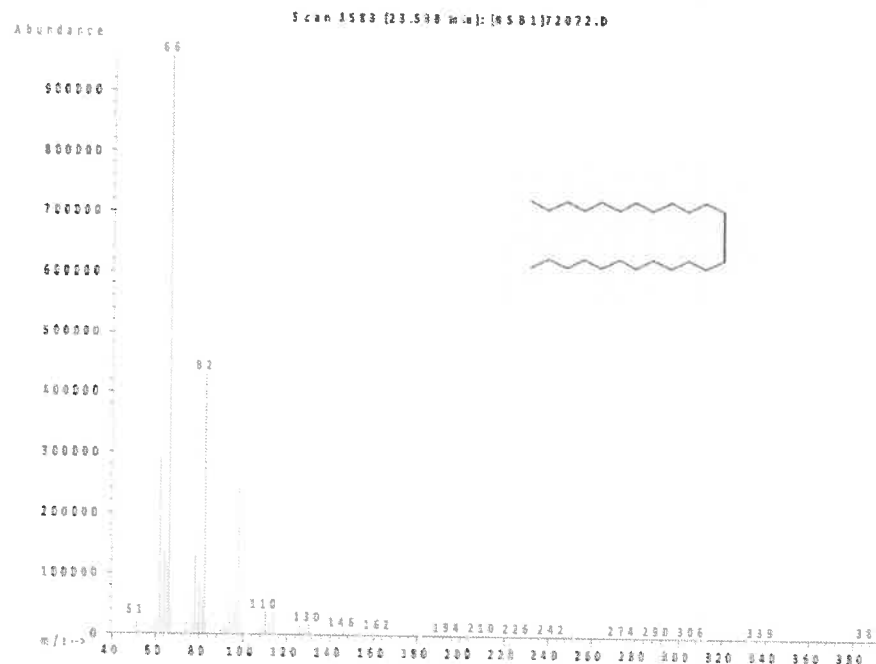
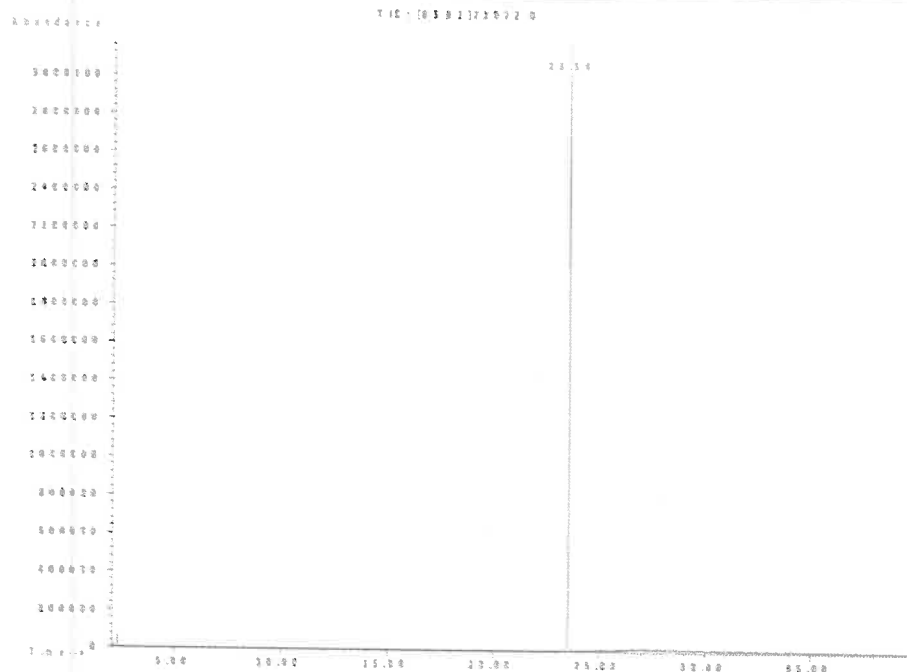
*P13477 } x.p.
↓
P13496 } 07/24/24*

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
											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 $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

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

Solvent(s): Methylene chloride
Lot# 78782

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

MSDS Information
(Solvent Safety info. On Attached pg.)

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1848M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A
5. Chrysene-d12	92	I-19280	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.3	15.4	1503-58-3	N/A	N/A

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

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

Qualitative Quantitative

Peak No. Name FID RT (min)

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

3rd Party Comparison

Analyte	Sup/Abs Dev (%)
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	2.74
Phenanthrene-d10	0.65
Chrysene-d12	1.93
Perylene-d12	-1.72
Total	-0.55

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

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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





CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

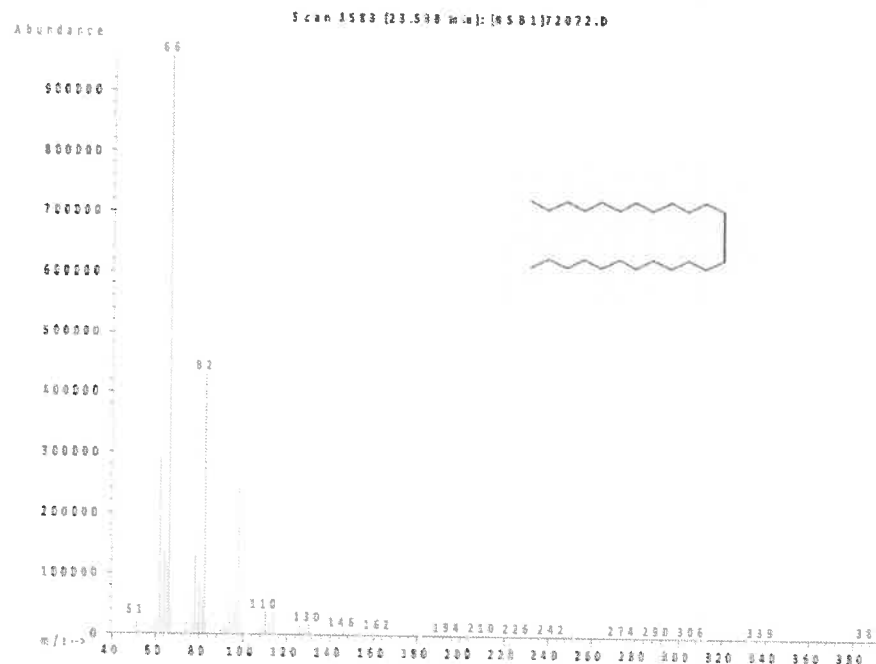
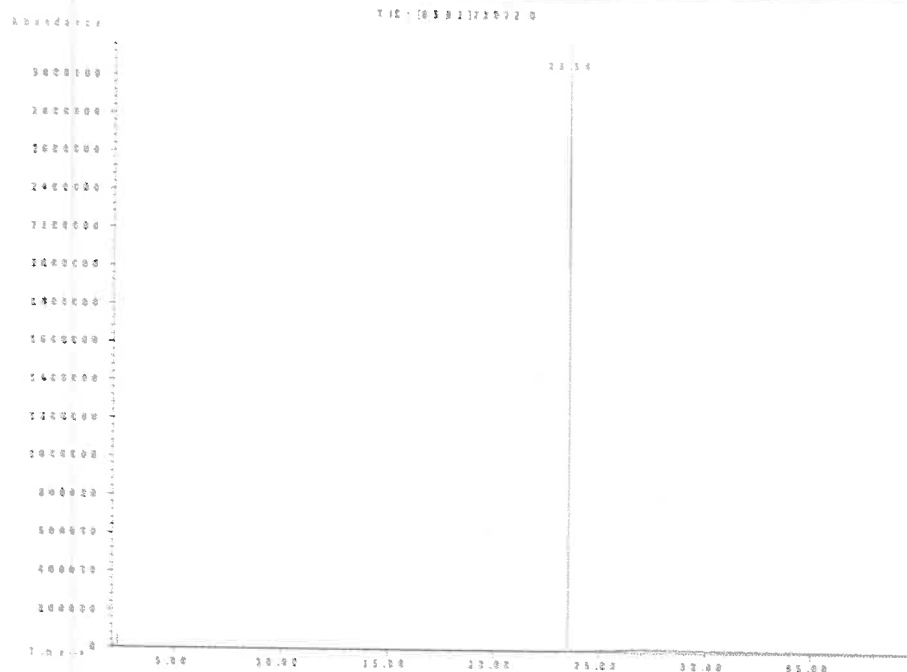
*P13477 } x.p.
↓
P13496 } 07/24/24*

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
											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 $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1848M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-nr 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3)(H)	N/A	or-nr 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-26-2	N/A	N/A	or-nr 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19280	4000	98	0.2	2.04093	2.04159	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

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

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

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

Peak No. Name FID RT (min)

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

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

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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



CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

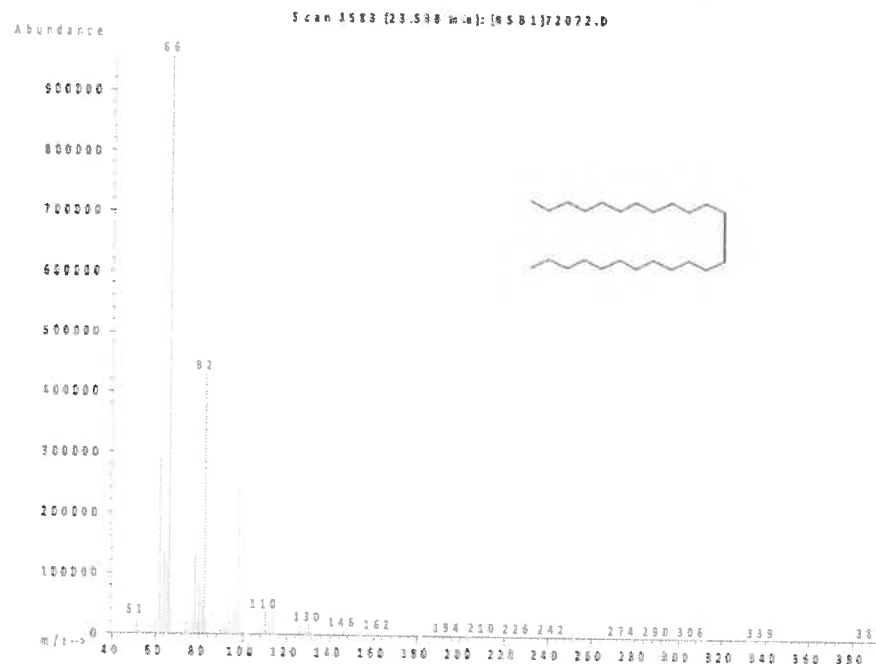
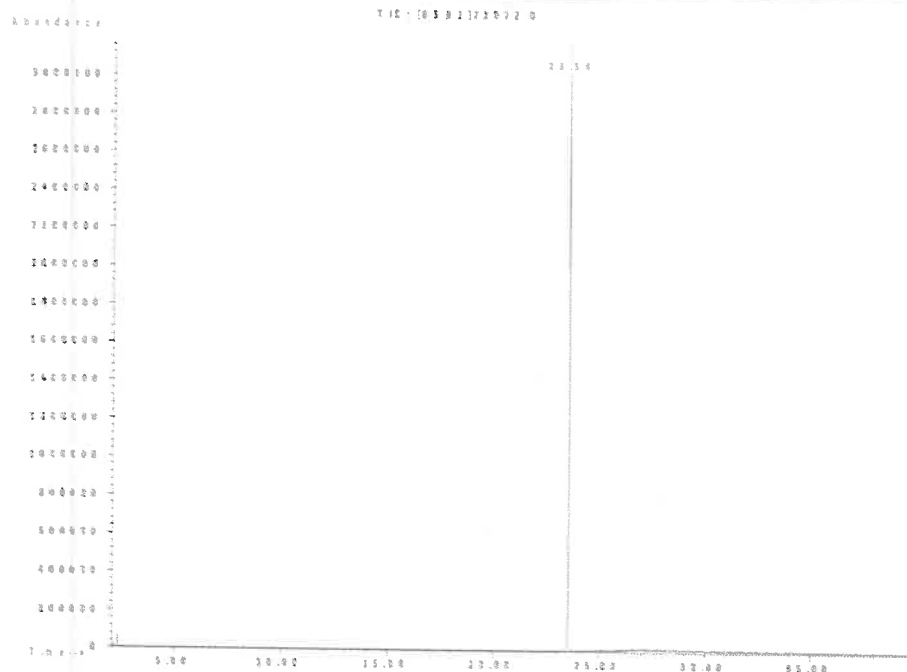
P13477 } x.p.
↓
P13496 } 07/24/24

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
											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).

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015280.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 14:51
Operator : YP\AJ
Sample : Q1235-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-51.2-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:15:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
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	1435730	11.193 ug/ml
Target Compounds			

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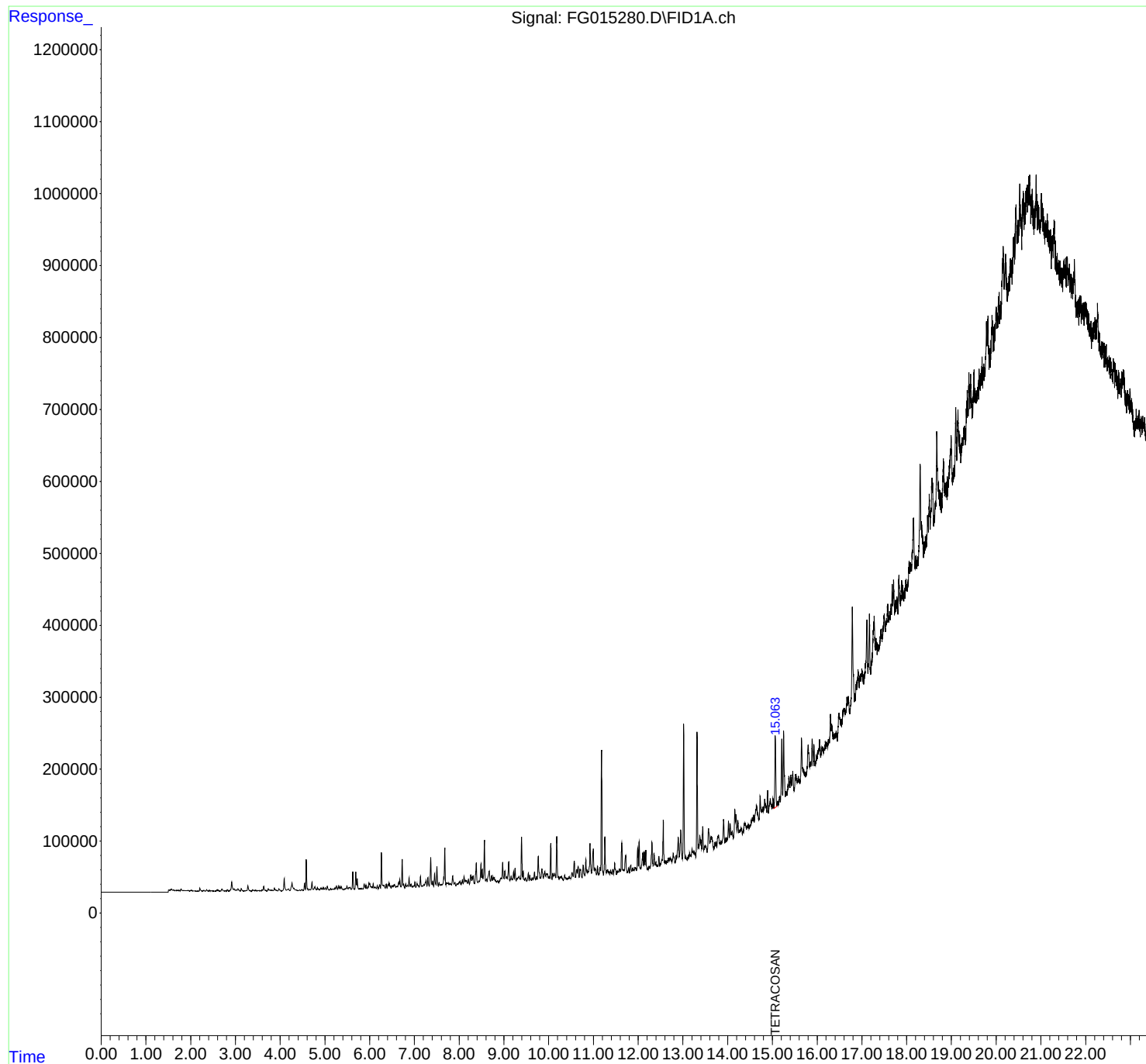
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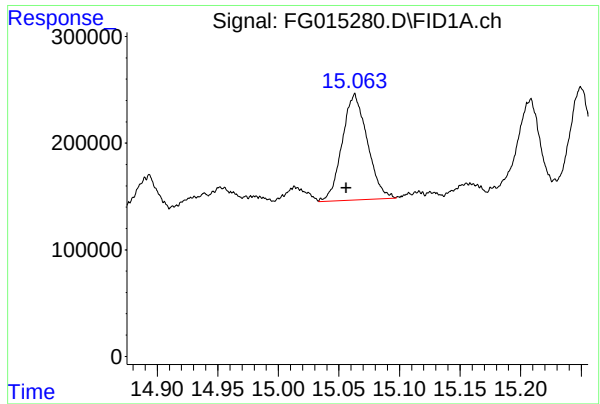
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Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 14:51
Operator : YP\AJ
Sample : Q1235-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-51.2-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:15:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.063 min
Delta R.T.: 0.007 min
Response: 1435730
Conc: 11.19 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-51.2-012925

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015280.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 14:51
Sample : Q1235-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.437	4.350	4.458	BH	-48	-27629	-0.15%	-0.005%
2	4.483	4.458	4.512	PH	708	-4728	-0.03%	-0.001%
3	4.545	4.512	4.566	PH	9231	95303	0.52%	0.019%
4	4.583	4.566	4.609	HH	42467	414412	2.28%	0.082%
5	4.618	4.609	4.639	HH	1773	17601	0.10%	0.003%
6	4.656	4.639	4.683	PH	1003	7838	0.04%	0.002%
7	4.712	4.683	4.736	PH	10912	138779	0.76%	0.027%
8	4.741	4.736	4.747	HH	793	4830	0.03%	0.001%
9	4.774	4.747	4.813	HH	4315	75138	0.41%	0.015%
10	4.831	4.813	4.845	PH	3253	29974	0.16%	0.006%
11	4.855	4.845	4.875	HH	1628	15074	0.08%	0.003%
12	4.893	4.875	4.898	HH	1000	9743	0.05%	0.002%
13	4.913	4.898	4.928	HH	2974	33356	0.18%	0.007%
14	4.935	4.928	4.948	HH	1455	13615	0.07%	0.003%
15	4.964	4.948	4.981	HH	3746	41755	0.23%	0.008%
16	5.009	4.981	5.030	HH	2962	44607	0.25%	0.009%
17	5.053	5.030	5.097	HH	4969	70664	0.39%	0.014%
18	5.128	5.097	5.143	PH	2002	19986	0.11%	0.004%
19	5.163	5.143	5.176	HH	1269	19217	0.11%	0.004%
20	5.187	5.176	5.196	HH	1391	14281	0.08%	0.003%
21	5.205	5.196	5.212	HH	1317	11262	0.06%	0.002%
22	5.227	5.212	5.240	HH	2860	34414	0.19%	0.007%
23	5.256	5.240	5.283	HH	5366	84159	0.46%	0.017%
24	5.304	5.283	5.320	HH	5857	71817	0.40%	0.014%
25	5.337	5.320	5.353	HH	5120	63340	0.35%	0.013%
26	5.369	5.353	5.411	HH	4879	70214	0.39%	0.014%
27	5.436	5.411	5.448	HH	1529	19243	0.11%	0.004%
28	5.468	5.448	5.478	HH	2165	29892	0.16%	0.006%
29	5.493	5.478	5.518	HH	5473	72526	0.40%	0.014%
30	5.536	5.518	5.553	HH	3533	58363	0.32%	0.012%
31	5.565	5.553	5.583	HH	3673	46347	0.26%	0.009%
32	5.595	5.583	5.603	HH	1263	13245	0.07%	0.003%
33	5.624	5.603	5.668	HH	25482	305015	1.68%	0.060%
34	5.690	5.668	5.710	HH	24875	310032	1.71%	0.061%
35	5.723	5.710	5.757	HH	15739	189443	1.04%	0.037%
36	5.768	5.757	5.787	HH	1555	25691	0.14%	0.005%

rteres								
37	5.804	5.787	5.830	HH	1858	40744	0.22%	0.008%
38	5.847	5.830	5.855	HH	1739	21806	0.12%	0.004%
39	5.879	5.855	5.905	HH	8114	141570	0.78%	0.028%
40	5.918	5.905	5.939	HH	7028	81607	0.45%	0.016%
41	5.959	5.939	5.968	HH	4571	57866	0.32%	0.011%
42	5.984	5.968	5.996	HH	9884	120330	0.66%	0.024%
43	6.004	5.996	6.031	HH	8462	125923	0.69%	0.025%
44	6.040	6.031	6.050	HH	4858	48676	0.27%	0.010%
45	6.058	6.050	6.067	HH	4207	40534	0.22%	0.008%
46	6.080	6.067	6.096	HH	8515	97017	0.53%	0.019%
47	6.125	6.096	6.148	HH	4216	99401	0.55%	0.020%
48	6.171	6.148	6.190	HH	5963	90436	0.50%	0.018%
49	6.225	6.190	6.244	HH	7123	137050	0.75%	0.027%
50	6.264	6.244	6.298	HH	51859	608311	3.35%	0.120%
51	6.308	6.298	6.313	HH	5930	52221	0.29%	0.010%
52	6.323	6.313	6.349	HH	6489	100827	0.55%	0.020%
53	6.370	6.349	6.389	HH	8148	119000	0.65%	0.024%
54	6.413	6.389	6.424	HH	7708	121754	0.67%	0.024%
55	6.436	6.424	6.480	HH	9810	206280	1.14%	0.041%
56	6.496	6.480	6.508	HH	6103	78164	0.43%	0.015%
57	6.522	6.508	6.531	HH	5619	68893	0.38%	0.014%
58	6.554	6.531	6.583	HH	7516	179455	0.99%	0.036%
59	6.600	6.583	6.626	HH	5133	116489	0.64%	0.023%
60	6.649	6.626	6.661	HH	10581	162872	0.90%	0.032%
61	6.674	6.661	6.704	HH	14781	217010	1.19%	0.043%
62	6.728	6.704	6.749	HH	42820	515621	2.84%	0.102%
63	6.759	6.749	6.781	HH	8277	109292	0.60%	0.022%
64	6.805	6.781	6.827	HH	8127	153513	0.84%	0.030%
65	6.847	6.827	6.863	HH	6962	128205	0.71%	0.025%
66	6.882	6.863	6.908	HH	16801	247788	1.36%	0.049%
67	6.926	6.908	6.945	HH	8062	145727	0.80%	0.029%
68	6.956	6.945	6.968	HH	5550	66856	0.37%	0.013%
69	6.985	6.968	6.997	HH	5741	86767	0.48%	0.017%
70	7.012	6.997	7.032	HH	10977	150251	0.83%	0.030%
71	7.056	7.032	7.068	HH	8329	135293	0.74%	0.027%
72	7.073	7.068	7.087	HH	7495	73210	0.40%	0.014%
73	7.093	7.087	7.106	HH	5708	59566	0.33%	0.012%
74	7.136	7.106	7.166	HH	18981	319728	1.76%	0.063%
75	7.177	7.166	7.190	HH	5509	75091	0.41%	0.015%
76	7.209	7.190	7.222	HH	6876	117915	0.65%	0.023%
77	7.261	7.222	7.283	HH	13335	343109	1.89%	0.068%
78	7.303	7.283	7.333	HH	17139	296366	1.63%	0.059%
79	7.366	7.333	7.395	HH	45243	700967	3.86%	0.139%
80	7.409	7.395	7.431	HH	12029	189884	1.04%	0.038%
81	7.452	7.431	7.485	HH	22777	394590	2.17%	0.078%
82	7.504	7.485	7.533	HH	32691	452438	2.49%	0.090%
83	7.552	7.533	7.569	HH	10298	171855	0.95%	0.034%
84	7.582	7.569	7.590	HH	7341	85618	0.47%	0.017%
85	7.602	7.590	7.615	HH	7885	109439	0.60%	0.022%
86	7.657	7.615	7.663	HH	17807	307695	1.69%	0.061%
87	7.680	7.663	7.704	HH	58511	712124	3.92%	0.141%
88	7.718	7.704	7.727	HH	9644	123249	0.68%	0.024%
89	7.735	7.727	7.760	HH	9443	179624	0.99%	0.036%

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90	7.768	7.760	7.787	HH	9209	134772	0.74%	0.027%
91	7.805	7.787	7.830	HH	8761	200937	1.11%	0.040%
92	7.856	7.830	7.887	HH	19640	418936	2.31%	0.083%
93	7.907	7.887	7.929	HH	10114	211294	1.16%	0.042%
94	7.951	7.929	7.962	HH	8603	143995	0.79%	0.028%
95	7.972	7.962	7.983	HH	8875	107968	0.59%	0.021%
96	7.997	7.983	8.006	HH	10687	128395	0.71%	0.025%
97	8.020	8.006	8.037	HH	12223	196684	1.08%	0.039%
98	8.053	8.037	8.059	HH	10385	123196	0.68%	0.024%
99	8.073	8.059	8.091	HH	13892	216571	1.19%	0.043%
100	8.111	8.091	8.132	HH	18610	339723	1.87%	0.067%
101	8.145	8.132	8.158	HH	13724	202903	1.12%	0.040%
102	8.166	8.158	8.187	HH	13146	197969	1.09%	0.039%
103	8.210	8.187	8.230	HH	14686	284816	1.57%	0.056%
104	8.260	8.230	8.281	HH	20891	446604	2.46%	0.088%
105	8.294	8.281	8.304	HH	18385	227425	1.25%	0.045%
106	8.315	8.304	8.341	HH	19536	310362	1.71%	0.061%
107	8.384	8.341	8.420	HH	37956	865553	4.76%	0.171%
108	8.441	8.420	8.455	HH	12196	240049	1.32%	0.047%
109	8.488	8.455	8.503	HH	36494	616506	3.39%	0.122%
110	8.516	8.503	8.532	HH	28416	389104	2.14%	0.077%
111	8.566	8.532	8.592	HH	69280	1104829	6.08%	0.219%
112	8.611	8.592	8.626	HH	14911	283109	1.56%	0.056%
113	8.673	8.626	8.702	HH	26092	831260	4.57%	0.164%
114	8.727	8.702	8.743	HH	20029	398349	2.19%	0.079%
115	8.763	8.743	8.776	HH	17655	304543	1.68%	0.060%
116	8.788	8.776	8.804	HH	17030	254726	1.40%	0.050%
117	8.812	8.804	8.834	HH	13704	223566	1.23%	0.044%
118	8.860	8.834	8.883	HH	12872	346105	1.90%	0.068%
119	8.900	8.883	8.906	HH	12202	152970	0.84%	0.030%
120	8.928	8.906	8.936	HH	16657	261168	1.44%	0.052%
121	8.942	8.936	8.953	HH	16433	164971	0.91%	0.033%
122	8.973	8.953	9.004	HH	38367	721060	3.97%	0.143%
123	9.022	9.004	9.052	HH	26395	589415	3.24%	0.117%
124	9.064	9.052	9.077	HH	18170	259712	1.43%	0.051%
125	9.109	9.077	9.134	HH	39328	811146	4.46%	0.160%
126	9.163	9.134	9.180	HH	18854	428529	2.36%	0.085%
127	9.191	9.180	9.198	HH	15067	162384	0.89%	0.032%
128	9.218	9.198	9.233	HH	25571	416822	2.29%	0.082%
129	9.251	9.233	9.277	HH	30204	536783	2.95%	0.106%
130	9.292	9.277	9.303	HH	16019	229453	1.26%	0.045%
131	9.341	9.303	9.356	HH	18928	535111	2.94%	0.106%
132	9.363	9.356	9.370	HH	15284	128134	0.71%	0.025%
133	9.396	9.370	9.418	HH	73670	1101213	6.06%	0.218%
134	9.431	9.418	9.463	HH	25861	505326	2.78%	0.100%
135	9.483	9.463	9.511	HH	16788	417046	2.29%	0.083%
136	9.548	9.511	9.565	HH	23571	542800	2.99%	0.107%
137	9.579	9.565	9.613	HH	19948	460077	2.53%	0.091%
138	9.631	9.613	9.647	HH	16912	306987	1.69%	0.061%
139	9.683	9.647	9.716	HH	24923	724218	3.99%	0.143%
140	9.730	9.716	9.747	HH	18737	306223	1.69%	0.061%
141	9.769	9.747	9.809	HH	46711	1021919	5.62%	0.202%

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142	9.819	9.809	9.826	HH	17405	167419	0.92%	0.033%
143	9.850	9.826	9.881	HH	29241	737352	4.06%	0.146%
144	9.914	9.881	9.937	HH	25776	701965	3.86%	0.139%
145	9.958	9.937	9.971	HH	22661	440266	2.42%	0.087%
146	9.975	9.971	9.997	HH	22115	297770	1.64%	0.059%
147	10.010	9.997	10.026	HH	18765	305390	1.68%	0.060%
148	10.047	10.026	10.074	HH	64725	938881	5.17%	0.186%
149	10.094	10.074	10.110	HH	23091	423616	2.33%	0.084%
150	10.138	10.110	10.160	HH	22276	601546	3.31%	0.119%
151	10.182	10.160	10.235	HH	74261	1432517	7.88%	0.283%
152	10.258	10.235	10.275	HH	18056	408036	2.25%	0.081%
153	10.290	10.275	10.325	HH	19381	496540	2.73%	0.098%
154	10.358	10.325	10.389	HH	20429	637650	3.51%	0.126%
155	10.394	10.389	10.407	HH	16129	163319	0.90%	0.032%
156	10.427	10.407	10.440	HH	15749	305755	1.68%	0.060%
157	10.458	10.440	10.473	HH	17930	330154	1.82%	0.065%
158	10.488	10.473	10.500	HH	16698	264281	1.45%	0.052%
159	10.523	10.500	10.548	HH	23865	588470	3.24%	0.116%
160	10.573	10.548	10.601	HH	39905	859624	4.73%	0.170%
161	10.626	10.601	10.642	HH	28328	573008	3.15%	0.113%
162	10.659	10.642	10.682	HH	32222	611271	3.36%	0.121%
163	10.700	10.682	10.747	HH	28332	913790	5.03%	0.181%
164	10.772	10.747	10.809	HH	33903	900188	4.95%	0.178%
165	10.831	10.809	10.849	HH	42562	746414	4.11%	0.148%
166	10.858	10.849	10.872	HH	27783	368973	2.03%	0.073%
167	10.925	10.872	10.959	HH	64808	1774983	9.77%	0.351%
168	10.997	10.959	11.018	HH	57155	1403949	7.73%	0.278%
169	11.030	11.018	11.040	HH	31061	386020	2.12%	0.076%
170	11.048	11.040	11.071	HH	28889	462240	2.54%	0.091%
171	11.093	11.071	11.115	HH	32723	683683	3.76%	0.135%
172	11.149	11.115	11.160	HH	31351	686889	3.78%	0.136%
173	11.183	11.160	11.224	HH	192801	2733189	15.04%	0.541%
174	11.257	11.224	11.289	HH	74002	1516001	8.34%	0.300%
175	11.316	11.289	11.337	HH	27897	738554	4.06%	0.146%
176	11.343	11.337	11.366	HH	25345	427806	2.35%	0.085%
177	11.385	11.366	11.416	HH	27047	724861	3.99%	0.143%
178	11.434	11.416	11.453	HH	28147	553692	3.05%	0.110%
179	11.474	11.453	11.517	HH	37368	1060268	5.83%	0.210%
180	11.546	11.517	11.564	HH	26016	699945	3.85%	0.138%
181	11.582	11.564	11.597	HH	29304	537294	2.96%	0.106%
182	11.633	11.597	11.666	HH	65541	1544012	8.50%	0.306%
183	11.675	11.666	11.690	HH	27911	389618	2.14%	0.077%
184	11.722	11.690	11.759	HH	48305	1438513	7.92%	0.285%
185	11.788	11.759	11.808	HH	30855	783624	4.31%	0.155%
186	11.836	11.808	11.858	HH	34190	891586	4.91%	0.176%
187	11.881	11.858	11.908	HH	30417	845126	4.65%	0.167%
188	11.942	11.908	11.963	HH	31049	955196	5.26%	0.189%
189	11.990	11.963	12.004	HH	57815	1014602	5.58%	0.201%
190	12.021	12.004	12.058	HH	66417	1345530	7.40%	0.266%
191	12.105	12.058	12.122	HH	51433	1499913	8.25%	0.297%
192	12.139	12.122	12.154	HH	52605	840442	4.62%	0.166%
193	12.169	12.154	12.214	HH	55518	1360578	7.49%	0.269%
194	12.248	12.214	12.264	HH	32695	912883	5.02%	0.181%

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195	12.307	12.264	12.335	HH	66564	1849799	10.18%	0.366%
196	12.354	12.335	12.374	HH	50720	968484	5.33%	0.192%
197	12.396	12.374	12.422	HH	38390	1014829	5.58%	0.201%
198	12.429	12.422	12.434	HH	33678	249899	1.38%	0.049%
199	12.463	12.434	12.485	HH	46595	1147730	6.32%	0.227%
200	12.497	12.485	12.507	HH	36411	473071	2.60%	0.094%
201	12.530	12.507	12.538	HH	42083	732168	4.03%	0.145%
202	12.562	12.538	12.598	HH	97108	2015982	11.09%	0.399%
203	12.609	12.598	12.624	HH	40278	623434	3.43%	0.123%
204	12.641	12.624	12.657	HH	40790	756339	4.16%	0.150%
205	12.671	12.657	12.689	HH	44300	807878	4.45%	0.160%
206	12.704	12.689	12.709	HH	42577	508804	2.80%	0.101%
207	12.721	12.709	12.755	HH	44119	1148853	6.32%	0.227%
208	12.783	12.755	12.827	HH	51399	1904673	10.48%	0.377%
209	12.848	12.827	12.862	HH	47298	891374	4.91%	0.176%
210	12.894	12.862	12.917	HH	72484	1884155	10.37%	0.373%
211	12.950	12.917	12.985	HH	83432	2432124	13.38%	0.481%
212	13.015	12.985	13.050	HH	230692	3819940	21.02%	0.756%
213	13.065	13.050	13.088	HH	46548	998304	5.49%	0.198%
214	13.113	13.088	13.129	HH	46457	1112595	6.12%	0.220%
215	13.149	13.129	13.164	HH	51837	1013554	5.58%	0.201%
216	13.174	13.164	13.185	HH	49270	596438	3.28%	0.118%
217	13.202	13.185	13.216	HH	57080	986966	5.43%	0.195%
218	13.226	13.216	13.241	HH	53298	781568	4.30%	0.155%
219	13.255	13.241	13.286	HH	53135	1359445	7.48%	0.269%
220	13.315	13.286	13.338	HH	218774	3445179	18.96%	0.682%
221	13.346	13.338	13.356	HH	63654	686296	3.78%	0.136%
222	13.377	13.356	13.394	HH	74649	1547929	8.52%	0.306%
223	13.402	13.394	13.420	HH	69556	1001841	5.51%	0.198%
224	13.442	13.420	13.465	HH	88002	1886061	10.38%	0.373%
225	13.497	13.465	13.512	HH	61142	1637199	9.01%	0.324%
226	13.518	13.512	13.541	HH	60814	1009780	5.56%	0.200%
227	13.568	13.541	13.602	HH	85242	2562029	14.10%	0.507%
228	13.620	13.602	13.627	HH	72075	1025329	5.64%	0.203%
229	13.636	13.627	13.688	HH	73564	2480636	13.65%	0.491%
230	13.690	13.688	13.694	HH	58052	188534	1.04%	0.037%
231	13.711	13.694	13.725	HH	65332	1152617	6.34%	0.228%
232	13.737	13.725	13.756	HH	66452	1201681	6.61%	0.238%
233	13.778	13.756	13.786	HH	74957	1222144	6.73%	0.242%
234	13.797	13.786	13.824	HH	76600	1616269	8.89%	0.320%
235	13.829	13.824	13.833	HH	65540	364148	2.00%	0.072%
236	13.837	13.833	13.842	HH	65587	320261	1.76%	0.063%
237	13.846	13.842	13.859	HH	66694	682933	3.76%	0.135%
238	13.908	13.859	13.938	HH	98209	3580821	19.71%	0.709%
239	13.956	13.938	13.970	HH	71348	1319059	7.26%	0.261%
240	13.983	13.970	13.992	HH	71882	913164	5.03%	0.181%
241	14.016	13.992	14.039	HH	95429	2314464	12.74%	0.458%
242	14.056	14.039	14.083	HH	91798	2168575	11.93%	0.429%
243	14.094	14.083	14.125	HH	80576	1951799	10.74%	0.386%
244	14.159	14.125	14.176	HH	110679	2774745	15.27%	0.549%
245	14.186	14.176	14.208	HH	104647	1796830	9.89%	0.356%
246	14.228	14.208	14.245	HH	96348	1975665	10.87%	0.391%

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247	14.253	14.245	14.261	HH	82700	779872	4.29%	0.154%
248	14.269	14.261	14.273	HH	82979	609233	3.35%	0.121%
249	14.279	14.273	14.283	HH	82684	483483	2.66%	0.096%
250	14.304	14.283	14.330	HH	86254	2301562	12.67%	0.455%
251	14.379	14.330	14.389	HH	92003	3068697	16.89%	0.607%
252	14.392	14.389	14.417	HH	92550	1466586	8.07%	0.290%
253	14.431	14.417	14.438	HH	88703	1093101	6.02%	0.216%
254	14.443	14.438	14.447	HH	89271	481328	2.65%	0.095%
255	14.463	14.447	14.482	HH	90826	1870394	10.29%	0.370%
256	14.492	14.482	14.504	HH	88545	1165658	6.41%	0.231%
257	14.547	14.504	14.562	HH	100445	3305040	18.19%	0.654%
258	14.578	14.562	14.593	HH	104406	1873065	10.31%	0.371%
259	14.647	14.593	14.672	HH	117523	5048534	27.78%	0.999%
260	14.675	14.672	14.697	HH	105546	1517109	8.35%	0.300%
261	14.724	14.697	14.748	HH	130142	3514347	19.34%	0.695%
262	14.753	14.748	14.767	HH	110796	1199160	6.60%	0.237%
263	14.786	14.767	14.803	HH	114231	2401726	13.22%	0.475%
264	14.826	14.803	14.845	HH	125851	3015265	16.59%	0.597%
265	14.854	14.845	14.873	HH	117615	1882426	10.36%	0.372%
266	14.893	14.873	14.911	HH	138584	2794119	15.38%	0.553%
267	14.952	14.911	14.975	HH	126639	4582020	25.21%	0.907%
268	14.980	14.975	14.998	HH	118211	1537145	8.46%	0.304%
269	15.014	14.998	15.033	HH	126358	2593156	14.27%	0.513%
270	15.063	15.033	15.098	HH	214808	5846188	32.17%	1.157%
271	15.116	15.098	15.137	HH	122844	2824321	15.54%	0.559%
272	15.157	15.137	15.173	HH	128945	2706928	14.90%	0.536%
273	15.208	15.173	15.230	HH	209365	5381407	29.61%	1.065%
274	15.250	15.230	15.288	HH	220140	5783089	31.82%	1.144%
275	15.300	15.288	15.307	HH	136741	1527376	8.41%	0.302%
276	15.312	15.307	15.317	HH	136032	789737	4.35%	0.156%
277	15.322	15.317	15.330	HH	135267	1053097	5.80%	0.208%
278	15.367	15.330	15.392	HH	157797	5401257	29.72%	1.069%
279	15.409	15.392	15.434	HH	159263	3798731	20.90%	0.752%
280	15.454	15.434	15.482	HH	164551	4358748	23.99%	0.862%
281	15.519	15.482	15.556	HH	160859	6700043	36.87%	1.326%
282	15.579	15.556	15.597	HH	158012	3740283	20.58%	0.740%
283	15.600	15.597	15.617	HH	153870	1814040	9.98%	0.359%
284	15.650	15.617	15.678	HH	211078	6524952	35.91%	1.291%
285	15.682	15.678	15.687	HH	167475	888084	4.89%	0.176%
286	15.693	15.687	15.698	HH	167840	1054979	5.81%	0.209%
287	15.703	15.698	15.719	HH	164042	2049099	11.28%	0.405%
288	15.724	15.719	15.744	HH	163899	2436239	13.41%	0.482%
289	15.797	15.744	15.832	HH	201452	9329756	51.34%	1.846%
290	15.842	15.832	15.862	HH	177486	3122601	17.18%	0.618%
291	15.888	15.862	15.909	HH	209013	5365490	29.53%	1.062%
292	15.927	15.909	15.951	HH	201126	4697580	25.85%	0.929%
293	15.979	15.951	15.993	HH	186745	4574026	25.17%	0.905%
294	15.998	15.993	16.001	HH	183239	876895	4.83%	0.174%
295	16.020	16.001	16.026	HH	191288	2805147	15.44%	0.555%
296	16.052	16.026	16.080	HH	208825	6380036	35.11%	1.262%
297	16.105	16.080	16.113	HH	197908	3731246	20.53%	0.738%
298	16.120	16.113	16.136	HH	198509	2742416	15.09%	0.543%
299	16.141	16.136	16.149	HH	194104	1539513	8.47%	0.305%

rteres								
300	16.182	16.149	16.200	HH	206088	6030158	33.18%	1.193%
301	16.218	16.200	16.237	HH	205950	4482070	24.66%	0.887%
302	16.249	16.237	16.262	HH	209202	3067775	16.88%	0.607%
303	16.268	16.262	16.276	HH	209462	1741315	9.58%	0.345%
304	16.297	16.276	16.315	HH	243504	5403677	29.74%	1.069%
305	16.325	16.315	16.354	HH	230296	5145692	28.32%	1.018%
306	16.359	16.354	16.375	HH	218851	2659085	14.63%	0.526%
307	16.392	16.375	16.396	HH	216253	2666161	14.67%	0.528%
308	16.405	16.396	16.424	HH	218083	3644004	20.05%	0.721%
309	16.429	16.424	16.437	HH	218570	1621808	8.92%	0.321%
310	16.441	16.437	16.451	HH	217180	1800783	9.91%	0.356%
311	16.486	16.451	16.520	HH	244070	9616482	52.92%	1.903%
312	16.525	16.520	16.545	HH	236418	3574735	19.67%	0.707%
313	16.553	16.545	16.558	HH	237178	1806775	9.94%	0.357%
314	16.578	16.558	16.581	HH	248512	3329278	18.32%	0.659%
315	16.598	16.581	16.604	HH	251791	3430957	18.88%	0.679%
316	16.611	16.604	16.631	HH	252199	3965067	21.82%	0.785%
317	16.636	16.631	16.646	HH	248690	2188201	12.04%	0.433%
318	16.666	16.646	16.687	HH	267723	6364455	35.02%	1.259%
319	16.694	16.687	16.728	HH	268607	6401073	35.22%	1.267%
320	16.784	16.728	16.831	HH	392359	18171969	100.00%	3.596%
321	16.836	16.831	16.855	HH	270887	3877755	21.34%	0.767%
322	16.878	16.855	16.883	HH	287467	4646915	25.57%	0.919%
323	16.887	16.883	16.896	HH	291460	2258238	12.43%	0.447%
324	16.914	16.896	16.941	HH	305873	7892047	43.43%	1.562%
325	16.950	16.941	16.956	HH	297036	2675782	14.72%	0.529%
326	16.963	16.956	16.967	HH	299598	2068799	11.38%	0.409%
327	16.970	16.967	16.981	HH	297581	2348589	12.92%	0.465%
328	16.997	16.981	17.007	HH	307203	4688040	25.80%	0.928%
329	17.010	17.007	17.017	HH	304053	1745610	9.61%	0.345%
330	17.022	17.017	17.029	HH	299155	2210323	12.16%	0.437%
331	17.034	17.029	17.041	HH	297776	2021679	11.13%	0.400%
332	17.111	17.041	17.132	HH	375321	17523324	96.43%	3.467%
333	17.142	17.132	17.145	HH	313375	2426236	13.35%	0.480%
334	17.166	17.145	17.201	HH	382531	11132077	61.26%	2.203%
335	17.260	17.201	17.267	HH	372560	13122444	72.21%	2.596%
336	17.274	17.267	17.301	HH	379622	7311895	40.24%	1.447%
337	17.319	17.301	17.342	HH	347894	8472885	46.63%	1.676%
338	17.357	17.342	17.370	HH	341846	5548959	30.54%	1.098%
Sum of corrected areas:						505397582		

FG011325.M Sat Feb 01 02:17:33 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015281.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 15:20
Operator : YP\AJ
Sample : Q1235-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-16.1-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:15:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
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...	15.068	1744952	13.603 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

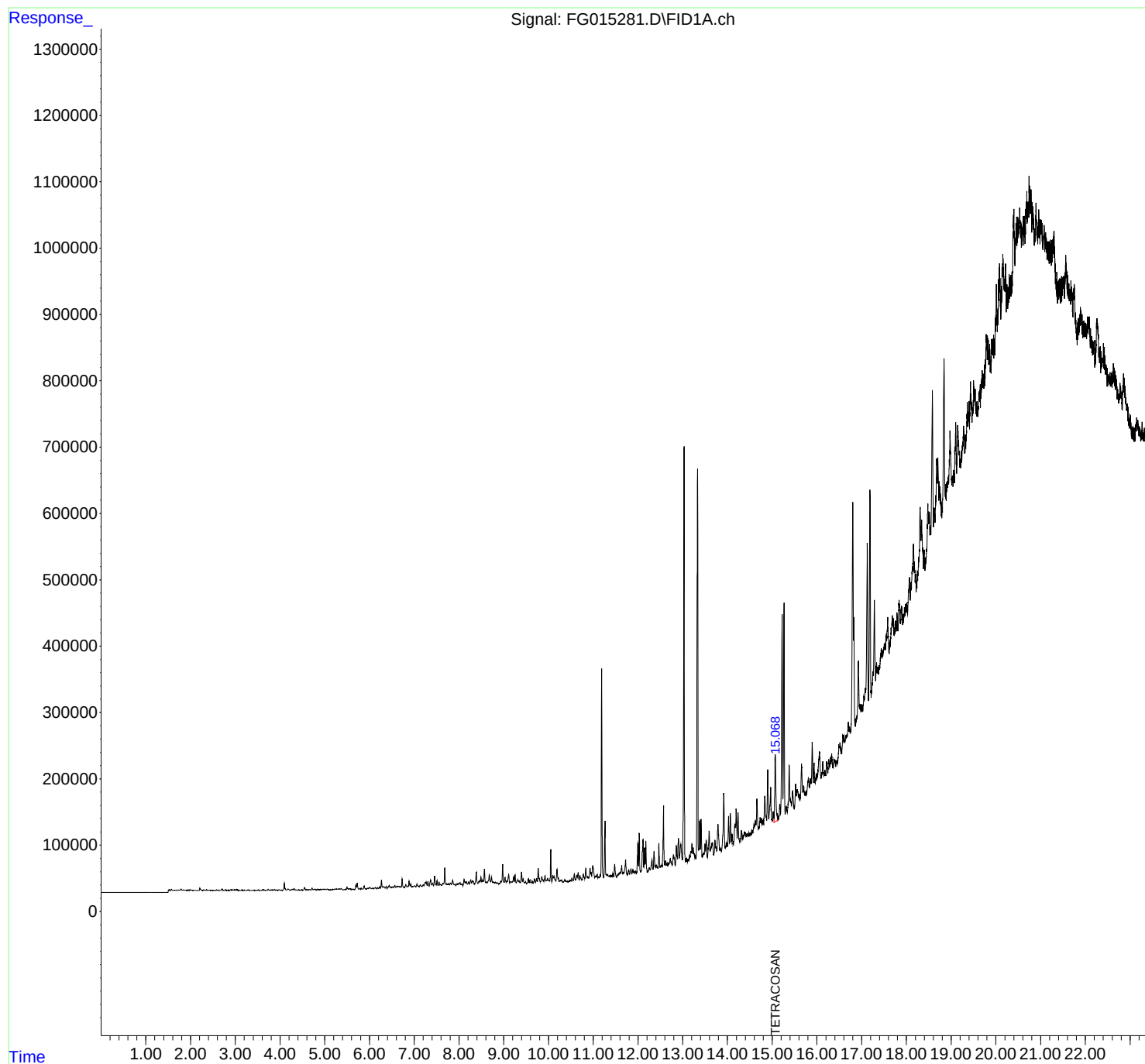
(m)=manual int.

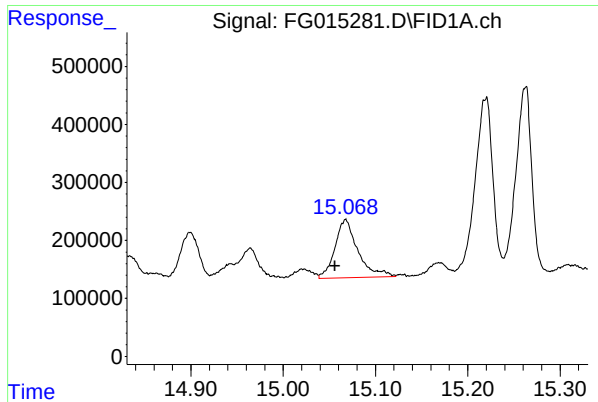
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
Data File : FG015281.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 15:20
Operator : YP\AJ
Sample : Q1235-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-16.1-012925

Integration File: autoint1.e
Quant Time: Feb 01 01:15:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.068 min
Delta R.T.: 0.012 min
Response: 1744952
Conc: 13.60 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-16.1-012925

1
2
3
4
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18

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013125\
 Data File : FG015281.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 15:20
 Sample : Q1235-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.414	4.350	4.425	BH	-144	-6372	-0.03%	-0.001%
2	4.439	4.425	4.462	PH	-11	-5572	-0.03%	-0.001%
3	4.484	4.462	4.515	PH	-60	-10243	-0.05%	-0.002%
4	4.549	4.515	4.574	PH	3684	42020	0.20%	0.008%
5	4.586	4.574	4.604	HH	648	4648	0.02%	0.001%
6	4.622	4.604	4.642	PH	492	3968	0.02%	0.001%
7	4.663	4.642	4.690	PH	637	5577	0.03%	0.001%
8	4.716	4.690	4.743	PH	2979	32642	0.16%	0.006%
9	4.779	4.743	4.815	HH	1164	24616	0.12%	0.005%
10	4.834	4.815	4.849	PH	1456	12983	0.06%	0.003%
11	4.861	4.849	4.880	HH	1026	10688	0.05%	0.002%
12	4.916	4.880	4.931	HH	1069	17751	0.09%	0.004%
13	4.939	4.931	4.944	HH	584	4079	0.02%	0.001%
14	4.964	4.944	4.980	HH	966	15543	0.08%	0.003%
15	4.993	4.980	5.001	HH	921	7873	0.04%	0.002%
16	5.016	5.001	5.037	HH	1050	16432	0.08%	0.003%
17	5.061	5.037	5.098	HH	1463	24035	0.12%	0.005%
18	5.105	5.098	5.121	HH	303	1551	0.01%	0.000%
19	5.131	5.121	5.155	HH	349	1660	0.01%	0.000%
20	5.172	5.155	5.184	PH	660	6120	0.03%	0.001%
21	5.191	5.184	5.199	HH	654	5135	0.02%	0.001%
22	5.211	5.199	5.217	HH	897	8261	0.04%	0.002%
23	5.231	5.217	5.247	HH	1572	19669	0.10%	0.004%
24	5.262	5.247	5.277	HH	1625	20806	0.10%	0.004%
25	5.305	5.277	5.321	HH	1926	34113	0.17%	0.007%
26	5.337	5.321	5.351	HH	1937	25076	0.12%	0.005%
27	5.371	5.351	5.412	HH	2282	40376	0.20%	0.008%
28	5.438	5.412	5.452	PH	744	9634	0.05%	0.002%
29	5.471	5.452	5.480	HH	1043	11929	0.06%	0.002%
30	5.497	5.480	5.521	HH	4434	58012	0.28%	0.011%
31	5.534	5.521	5.546	HH	1699	21071	0.10%	0.004%
32	5.566	5.546	5.585	HH	2114	35950	0.17%	0.007%
33	5.594	5.585	5.610	HH	1031	12120	0.06%	0.002%
34	5.632	5.610	5.655	HH	1433	22348	0.11%	0.004%
35	5.662	5.655	5.673	HH	499	4026	0.02%	0.001%
36	5.695	5.673	5.715	HH	7668	115329	0.56%	0.023%

rteres								
37	5.726	5.715	5.760	HH	10537	131177	0.64%	0.026%
38	5.783	5.760	5.796	HH	1997	30784	0.15%	0.006%
39	5.812	5.796	5.833	HH	1997	33785	0.16%	0.007%
40	5.849	5.833	5.860	HH	1486	20071	0.10%	0.004%
41	5.879	5.860	5.913	HH	6052	100169	0.49%	0.020%
42	5.964	5.913	5.979	HH	2917	74533	0.36%	0.015%
43	6.008	5.979	6.049	HH	4105	112081	0.54%	0.022%
44	6.064	6.049	6.076	HH	2995	39532	0.19%	0.008%
45	6.083	6.076	6.095	HH	2420	23758	0.12%	0.005%
46	6.128	6.095	6.151	HH	3426	84056	0.41%	0.017%
47	6.175	6.151	6.195	HH	3635	66905	0.32%	0.013%
48	6.228	6.195	6.247	HH	4921	99925	0.48%	0.020%
49	6.268	6.247	6.286	HH	15151	186755	0.90%	0.037%
50	6.293	6.286	6.306	HH	4918	54562	0.26%	0.011%
51	6.323	6.306	6.353	HH	4922	106349	0.52%	0.021%
52	6.373	6.353	6.396	HH	5306	92768	0.45%	0.018%
53	6.417	6.396	6.426	HH	4845	68253	0.33%	0.014%
54	6.440	6.426	6.483	HH	7076	169374	0.82%	0.034%
55	6.500	6.483	6.508	HH	4302	55580	0.27%	0.011%
56	6.522	6.508	6.540	HH	4725	77668	0.38%	0.015%
57	6.568	6.540	6.587	HH	6599	133606	0.65%	0.026%
58	6.617	6.587	6.631	HH	5321	127073	0.62%	0.025%
59	6.647	6.631	6.663	HH	5619	98508	0.48%	0.019%
60	6.675	6.663	6.690	HH	4937	74443	0.36%	0.015%
61	6.698	6.690	6.711	HH	4385	51146	0.25%	0.010%
62	6.730	6.711	6.758	HH	16507	240398	1.16%	0.048%
63	6.766	6.758	6.782	HH	4808	62806	0.30%	0.012%
64	6.809	6.782	6.841	HH	8143	195352	0.95%	0.039%
65	6.859	6.841	6.868	HH	5937	83482	0.40%	0.017%
66	6.885	6.868	6.908	HH	13383	211905	1.03%	0.042%
67	6.922	6.908	6.947	HH	8710	153682	0.74%	0.030%
68	6.959	6.947	6.970	HH	5363	67571	0.33%	0.013%
69	7.015	6.970	7.032	HH	6351	201024	0.97%	0.040%
70	7.060	7.032	7.090	HH	8639	223344	1.08%	0.044%
71	7.097	7.090	7.112	HH	5629	70669	0.34%	0.014%
72	7.139	7.112	7.159	HH	7867	179900	0.87%	0.036%
73	7.168	7.159	7.176	HH	5442	52915	0.26%	0.010%
74	7.201	7.176	7.219	HH	7543	171267	0.83%	0.034%
75	7.246	7.219	7.255	HH	11284	198995	0.96%	0.039%
76	7.266	7.255	7.287	HH	12146	190999	0.93%	0.038%
77	7.307	7.287	7.333	HH	12575	238309	1.15%	0.047%
78	7.369	7.333	7.392	HH	15221	364867	1.77%	0.072%
79	7.411	7.392	7.434	HH	10470	211279	1.02%	0.042%
80	7.456	7.434	7.493	HH	21053	416814	2.02%	0.082%
81	7.509	7.493	7.535	HH	14130	244921	1.19%	0.048%
82	7.553	7.535	7.573	HH	11784	210657	1.02%	0.042%
83	7.583	7.573	7.611	HH	8500	172875	0.84%	0.034%
84	7.643	7.611	7.653	HH	9581	218704	1.06%	0.043%
85	7.683	7.653	7.712	HH	33493	557330	2.70%	0.110%
86	7.733	7.712	7.744	HH	9048	162907	0.79%	0.032%
87	7.749	7.744	7.759	HH	8574	78094	0.38%	0.015%
88	7.772	7.759	7.786	HH	9276	138222	0.67%	0.027%
89	7.815	7.786	7.833	HH	10323	256670	1.24%	0.051%

					rteres			
90	7.860	7.833	7.887	HH	14760	353436	1.71%	0.070%
91	7.904	7.887	7.928	HH	8599	192158	0.93%	0.038%
92	7.946	7.928	7.960	HH	8678	153099	0.74%	0.030%
93	7.974	7.960	7.989	HH	10076	157084	0.76%	0.031%
94	8.002	7.989	8.009	HH	9134	101962	0.49%	0.020%
95	8.024	8.009	8.041	HH	10925	188271	0.91%	0.037%
96	8.064	8.041	8.085	HH	9084	216116	1.05%	0.043%
97	8.115	8.085	8.133	HH	16001	329087	1.59%	0.065%
98	8.147	8.133	8.160	HH	12372	186399	0.90%	0.037%
99	8.170	8.160	8.192	HH	12108	196470	0.95%	0.039%
100	8.214	8.192	8.233	HH	12042	254580	1.23%	0.050%
101	8.261	8.233	8.284	HH	15088	359896	1.74%	0.071%
102	8.299	8.284	8.348	HH	13840	442432	2.14%	0.088%
103	8.388	8.348	8.422	HH	26773	644243	3.12%	0.127%
104	8.463	8.422	8.473	HH	13142	362412	1.76%	0.072%
105	8.492	8.473	8.507	HH	19365	317547	1.54%	0.063%
106	8.520	8.507	8.535	HH	15197	227475	1.10%	0.045%
107	8.569	8.535	8.599	HH	31755	670358	3.25%	0.133%
108	8.616	8.599	8.633	HH	12291	233784	1.13%	0.046%
109	8.678	8.633	8.706	HH	22829	673092	3.26%	0.133%
110	8.729	8.706	8.751	HH	18879	392507	1.90%	0.078%
111	8.765	8.751	8.779	HH	12172	192942	0.93%	0.038%
112	8.788	8.779	8.805	HH	11166	170915	0.83%	0.034%
113	8.817	8.805	8.835	HH	11690	189946	0.92%	0.038%
114	8.859	8.835	8.890	HH	10737	329524	1.60%	0.065%
115	8.902	8.890	8.913	HH	9769	132532	0.64%	0.026%
116	8.933	8.913	8.937	HH	12582	162507	0.79%	0.032%
117	8.978	8.937	9.010	HH	38677	806285	3.91%	0.160%
118	9.029	9.010	9.050	HH	18671	363182	1.76%	0.072%
119	9.068	9.050	9.081	HH	13738	237805	1.15%	0.047%
120	9.112	9.081	9.136	HH	22799	550251	2.67%	0.109%
121	9.159	9.136	9.180	HH	12752	315677	1.53%	0.062%
122	9.196	9.180	9.202	HH	12497	155122	0.75%	0.031%
123	9.223	9.202	9.239	HH	19496	345823	1.68%	0.068%
124	9.255	9.239	9.281	HH	22791	401724	1.95%	0.079%
125	9.299	9.281	9.303	HH	13545	155755	0.75%	0.031%
126	9.318	9.303	9.339	HH	15483	302879	1.47%	0.060%
127	9.347	9.339	9.365	HH	13208	192144	0.93%	0.038%
128	9.399	9.365	9.423	HH	26954	573802	2.78%	0.114%
129	9.436	9.423	9.468	HH	17197	361405	1.75%	0.071%
130	9.488	9.468	9.514	HH	12152	296797	1.44%	0.059%
131	9.552	9.514	9.570	HH	17098	418832	2.03%	0.083%
132	9.584	9.570	9.620	HH	15117	357498	1.73%	0.071%
133	9.637	9.620	9.657	HH	13060	261026	1.26%	0.052%
134	9.690	9.657	9.714	HH	16842	453583	2.20%	0.090%
135	9.735	9.714	9.751	HH	16884	316135	1.53%	0.063%
136	9.772	9.751	9.825	HH	32853	824873	4.00%	0.163%
137	9.853	9.825	9.885	HH	20099	556710	2.70%	0.110%
138	9.896	9.885	9.905	HH	15207	179590	0.87%	0.036%
139	9.924	9.905	9.947	HH	21522	426040	2.06%	0.084%
140	9.955	9.947	9.967	HH	14891	173038	0.84%	0.034%
141	9.983	9.967	10.004	HH	17426	347477	1.68%	0.069%

rteres								
142	10.010	10.004	10.026	HH	14031	177041	0.86%	0.035%
143	10.052	10.026	10.077	HH	61226	866901	4.20%	0.171%
144	10.099	10.077	10.114	HH	21984	386500	1.87%	0.076%
145	10.125	10.114	10.167	HH	20161	528114	2.56%	0.104%
146	10.190	10.167	10.215	HH	31290	662840	3.21%	0.131%
147	10.218	10.215	10.244	HH	17396	254574	1.23%	0.050%
148	10.260	10.244	10.280	HH	14478	293770	1.42%	0.058%
149	10.294	10.280	10.324	HH	15257	362845	1.76%	0.072%
150	10.364	10.324	10.393	HH	15171	544120	2.64%	0.108%
151	10.397	10.393	10.419	HH	12952	190734	0.92%	0.038%
152	10.423	10.419	10.443	HH	12364	181283	0.88%	0.036%
153	10.462	10.443	10.475	HH	13475	242716	1.18%	0.048%
154	10.490	10.475	10.507	HH	14721	270637	1.31%	0.054%
155	10.527	10.507	10.555	HH	17800	437418	2.12%	0.087%
156	10.578	10.555	10.600	HH	24005	504514	2.44%	0.100%
157	10.632	10.600	10.648	HH	21916	527573	2.56%	0.104%
158	10.664	10.648	10.686	HH	25805	473651	2.29%	0.094%
159	10.704	10.686	10.751	HH	21500	682387	3.31%	0.135%
160	10.779	10.751	10.815	HH	23723	723273	3.50%	0.143%
161	10.834	10.815	10.870	HH	32641	780321	3.78%	0.154%
162	10.883	10.870	10.902	HH	19723	351247	1.70%	0.069%
163	10.930	10.902	10.944	HH	32442	628277	3.04%	0.124%
164	10.952	10.944	10.966	HH	26992	327649	1.59%	0.065%
165	10.990	10.966	11.035	HH	36613	1140354	5.52%	0.226%
166	11.059	11.035	11.072	HH	21314	447316	2.17%	0.088%
167	11.087	11.072	11.104	HH	23361	401239	1.94%	0.079%
168	11.121	11.104	11.133	HH	19836	328039	1.59%	0.065%
169	11.155	11.133	11.163	HH	22825	378127	1.83%	0.075%
170	11.190	11.163	11.234	HH	329023	4177891	20.24%	0.826%
171	11.263	11.234	11.284	HH	104206	1464070	7.09%	0.290%
172	11.293	11.284	11.305	HH	24206	298185	1.44%	0.059%
173	11.320	11.305	11.344	HH	23135	502765	2.44%	0.099%
174	11.364	11.344	11.375	HH	21200	394748	1.91%	0.078%
175	11.380	11.375	11.390	HH	20948	172555	0.84%	0.034%
176	11.400	11.390	11.419	HH	21379	360497	1.75%	0.071%
177	11.435	11.419	11.457	HH	24788	501957	2.43%	0.099%
178	11.479	11.457	11.519	HH	38379	980268	4.75%	0.194%
179	11.559	11.519	11.565	HH	23199	588729	2.85%	0.116%
180	11.606	11.565	11.611	HH	25805	692352	3.35%	0.137%
181	11.636	11.611	11.672	HH	37223	1032602	5.00%	0.204%
182	11.683	11.672	11.690	HH	26226	281932	1.37%	0.056%
183	11.723	11.690	11.766	HH	45149	1416667	6.86%	0.280%
184	11.793	11.766	11.813	HH	30491	730295	3.54%	0.144%
185	11.842	11.813	11.864	HH	30832	839902	4.07%	0.166%
186	11.886	11.864	11.917	HH	30706	865596	4.19%	0.171%
187	11.929	11.917	11.935	HH	27179	286109	1.39%	0.057%
188	11.948	11.935	11.965	HH	28184	490736	2.38%	0.097%
189	11.996	11.965	12.011	HH	70312	1213012	5.88%	0.240%
190	12.027	12.011	12.070	HH	85025	1609991	7.80%	0.318%
191	12.112	12.070	12.130	HH	76194	1780350	8.62%	0.352%
192	12.146	12.130	12.160	HH	63689	914487	4.43%	0.181%
193	12.177	12.160	12.206	HH	73269	1312507	6.36%	0.260%
194	12.220	12.206	12.225	HH	28349	309485	1.50%	0.061%

rteres								
195	12.251	12.225	12.275	HH	33393	944993	4.58%	0.187%
196	12.312	12.275	12.338	HH	45309	1377862	6.67%	0.273%
197	12.360	12.338	12.379	HH	57533	1056208	5.12%	0.209%
198	12.386	12.379	12.395	HH	36429	347953	1.69%	0.069%
199	12.407	12.395	12.433	HH	37213	805376	3.90%	0.159%
200	12.436	12.433	12.446	HH	33912	265668	1.29%	0.053%
201	12.468	12.446	12.493	HH	70247	1329317	6.44%	0.263%
202	12.503	12.493	12.520	HH	35932	549105	2.66%	0.109%
203	12.534	12.520	12.543	HH	37912	515087	2.49%	0.102%
204	12.571	12.543	12.599	HH	127013	2303339	11.16%	0.456%
205	12.616	12.599	12.635	HH	44090	877249	4.25%	0.174%
206	12.644	12.635	12.663	HH	39721	628824	3.05%	0.124%
207	12.678	12.663	12.691	HH	39736	649017	3.14%	0.128%
208	12.722	12.691	12.741	HH	47214	1284435	6.22%	0.254%
209	12.745	12.741	12.761	HH	42485	489404	2.37%	0.097%
210	12.793	12.761	12.804	HH	52801	1171266	5.67%	0.232%
211	12.812	12.804	12.833	HH	47875	736291	3.57%	0.146%
212	12.857	12.833	12.880	HH	66098	1475833	7.15%	0.292%
213	12.904	12.880	12.925	HH	76695	1622678	7.86%	0.321%
214	12.954	12.925	12.995	HH	68804	2389632	11.57%	0.473%
215	13.030	12.995	13.062	HH	665344	9072555	43.94%	1.795%
216	13.086	13.062	13.104	HH	47470	1119241	5.42%	0.221%
217	13.121	13.104	13.136	HH	46251	862072	4.18%	0.171%
218	13.156	13.136	13.167	HH	52015	907548	4.40%	0.180%
219	13.180	13.167	13.191	HH	58263	807217	3.91%	0.160%
220	13.207	13.191	13.222	HH	68884	1139944	5.52%	0.226%
221	13.236	13.222	13.252	HH	63190	1052278	5.10%	0.208%
222	13.257	13.252	13.278	HH	54782	804769	3.90%	0.159%
223	13.283	13.278	13.296	HH	50649	524606	2.54%	0.104%
224	13.332	13.296	13.358	HH	633749	8668774	41.99%	1.715%
225	13.378	13.358	13.394	HH	103764	1715767	8.31%	0.339%
226	13.409	13.394	13.436	HH	106762	1884016	9.13%	0.373%
227	13.459	13.436	13.463	HH	54728	842619	4.08%	0.167%
228	13.467	13.463	13.476	HH	54118	434515	2.10%	0.086%
229	13.495	13.476	13.508	HH	69033	1201653	5.82%	0.238%
230	13.525	13.508	13.552	HH	74303	1608505	7.79%	0.318%
231	13.589	13.552	13.609	HH	88115	2355462	11.41%	0.466%
232	13.662	13.609	13.690	HH	70960	3096641	15.00%	0.613%
233	13.721	13.690	13.734	HH	74213	1662284	8.05%	0.329%
234	13.741	13.734	13.761	HH	65608	1003296	4.86%	0.198%
235	13.786	13.761	13.827	HH	99106	3047173	14.76%	0.603%
236	13.836	13.827	13.865	HH	61896	1391446	6.74%	0.275%
237	13.915	13.865	13.959	HH	145230	4776520	23.14%	0.945%
238	13.982	13.959	13.997	HH	70998	1565270	7.58%	0.310%
239	14.024	13.997	14.043	HH	110853	2366242	11.46%	0.468%
240	14.064	14.043	14.087	HH	114623	2332528	11.30%	0.461%
241	14.105	14.087	14.132	HH	82819	2047957	9.92%	0.405%
242	14.165	14.132	14.177	HH	98318	2337838	11.32%	0.462%
243	14.194	14.177	14.214	HH	121292	2280468	11.05%	0.451%
244	14.234	14.214	14.276	HH	116311	3250330	15.74%	0.643%
245	14.309	14.276	14.330	HH	89420	2639632	12.79%	0.522%
246	14.359	14.330	14.365	HH	81930	1650827	8.00%	0.327%

rteres								
247	14.380	14.365	14.386	HH	87599	1063695	5.15%	0.210%
248	14.390	14.386	14.394	HH	85705	438142	2.12%	0.087%
249	14.398	14.394	14.415	HH	86090	1016892	4.93%	0.201%
250	14.446	14.415	14.464	HH	84893	2453642	11.88%	0.485%
251	14.482	14.464	14.492	HH	85995	1413526	6.85%	0.280%
252	14.505	14.492	14.509	HH	84613	848760	4.11%	0.168%
253	14.515	14.509	14.526	HH	85170	829178	4.02%	0.164%
254	14.552	14.526	14.567	HH	90070	2156984	10.45%	0.427%
255	14.625	14.567	14.638	HH	104328	4121782	19.96%	0.815%
256	14.658	14.638	14.691	HH	136855	3500188	16.95%	0.692%
257	14.701	14.691	14.705	HH	94258	797658	3.86%	0.158%
258	14.728	14.705	14.742	HH	109262	2272885	11.01%	0.450%
259	14.760	14.742	14.781	HH	106672	2383167	11.54%	0.471%
260	14.795	14.781	14.808	HH	104709	1675513	8.12%	0.331%
261	14.833	14.808	14.875	HH	140167	4732897	22.92%	0.936%
262	14.899	14.875	14.921	HH	181075	3882729	18.81%	0.768%
263	14.964	14.921	15.000	HH	154679	5828637	28.23%	1.153%
264	15.021	15.000	15.039	HH	117759	2574410	12.47%	0.509%
265	15.068	15.039	15.122	HH	204119	6877038	33.31%	1.360%
266	15.127	15.122	15.137	HH	108703	965096	4.67%	0.191%
267	15.170	15.137	15.185	HH	128899	3431051	16.62%	0.679%
268	15.220	15.185	15.239	HH	410474	7568209	36.66%	1.497%
269	15.263	15.239	15.289	HH	431058	7190293	34.83%	1.422%
270	15.308	15.289	15.336	HH	126042	3432172	16.62%	0.679%
271	15.378	15.336	15.431	HH	187244	7981985	38.66%	1.579%
272	15.459	15.431	15.490	HH	149326	4819374	23.34%	0.953%
273	15.523	15.490	15.539	HH	159810	4125388	19.98%	0.816%
274	15.562	15.539	15.587	HH	152224	4238651	20.53%	0.838%
275	15.591	15.587	15.597	HH	144314	855387	4.14%	0.169%
276	15.601	15.597	15.617	HH	143754	1691182	8.19%	0.335%
277	15.622	15.617	15.626	HH	138950	704730	3.41%	0.139%
278	15.654	15.626	15.688	HH	189485	6022755	29.17%	1.191%
279	15.701	15.688	15.731	HH	154613	3815105	18.48%	0.755%
280	15.741	15.731	15.749	HH	145882	1595214	7.73%	0.316%
281	15.759	15.749	15.772	HH	148213	2003071	9.70%	0.396%
282	15.809	15.772	15.828	HH	167580	5334467	25.84%	1.055%
283	15.846	15.828	15.852	HH	167576	2379661	11.53%	0.471%
284	15.854	15.852	15.869	HH	166356	1614102	7.82%	0.319%
285	15.892	15.869	15.912	HH	221322	4925079	23.86%	0.974%
286	15.934	15.912	15.962	HH	190546	5188367	25.13%	1.026%
287	15.984	15.962	15.989	HH	173344	2730581	13.23%	0.540%
288	15.993	15.989	15.999	HH	171113	982698	4.76%	0.194%
289	16.053	15.999	16.088	HH	208621	9891886	47.91%	1.957%
290	16.131	16.088	16.155	HH	193034	7142830	34.60%	1.413%
291	16.173	16.155	16.195	HH	179835	4271960	20.69%	0.845%
292	16.215	16.195	16.241	HH	193130	4994711	24.19%	0.988%
293	16.265	16.241	16.285	HH	196806	5014883	24.29%	0.992%
294	16.303	16.285	16.312	HH	199446	3127334	15.15%	0.619%
295	16.327	16.312	16.356	HH	205392	5091468	24.66%	1.007%
296	16.377	16.356	16.384	HH	196463	3238279	15.69%	0.641%
297	16.393	16.384	16.421	HH	194513	4225839	20.47%	0.836%
298	16.443	16.421	16.457	HH	194104	4161374	20.16%	0.823%
299	16.488	16.457	16.508	HH	218230	6411038	31.05%	1.268%

rteres								
300	16.515	16.508	16.531	HH	222187	2891614	14.01%	0.572%
301	16.534	16.531	16.550	HH	212427	2408468	11.67%	0.476%
302	16.576	16.550	16.594	HH	232746	5883010	28.50%	1.164%
303	16.601	16.594	16.624	HH	233270	4085767	19.79%	0.808%
304	16.650	16.624	16.663	HH	233470	5417925	26.24%	1.072%
305	16.699	16.663	16.717	HH	252880	7789657	37.73%	1.541%
306	16.733	16.717	16.744	HH	245463	3806994	18.44%	0.753%
307	16.750	16.744	16.754	HH	239993	1490192	7.22%	0.295%
308	16.800	16.754	16.817	HH	582601	14652126	70.97%	2.899%
309	16.824	16.817	16.862	HH	410237	8232402	39.87%	1.629%
310	16.893	16.862	16.900	HH	263231	5900507	28.58%	1.167%
311	16.927	16.900	16.949	HH	346127	8851202	42.87%	1.751%
312	16.960	16.949	16.965	HH	279978	2550034	12.35%	0.504%
313	16.968	16.965	16.989	HH	275786	3984713	19.30%	0.788%
314	17.000	16.989	17.006	HH	279270	2896628	14.03%	0.573%
315	17.020	17.006	17.026	HH	277028	3191243	15.46%	0.631%
316	17.047	17.026	17.061	HH	290507	5953257	28.84%	1.178%
317	17.124	17.061	17.151	HH	517136	19216229	93.08%	3.801%
318	17.185	17.151	17.209	HH	602620	14429175	69.89%	2.854%
319	17.283	17.209	17.311	HH	434739	20645574	100.00%	4.084%
320	17.334	17.311	17.349	HH	341286	7610489	36.86%	1.506%
321	17.360	17.349	17.375	HH	332976	5130875	24.85%	1.015%
322	17.393	17.375	17.401	HHA	337635	5327416	25.80%	1.054%
Sum of corrected areas:					505507015			

FG011325.M Sat Feb 01 02:18:43 2025



SHIPPING DOCUMENTS

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CHEMTECH

CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. **Q1235**
QUOTE NO.
COC Number **2041689**

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: **RU2 Engineering LLC**
ADDRESS: **2 Melinda Drive**
Monroe Twp, NJ 08831
CITY: _____ ZIP: _____
ATTENTION: **Rutu Manani**
PHONE: **609-409-4564** FAX: _____

CLIENT PROJECT INFORMATION

PROJECT NAME: **SANDTWOBR BMLR Project**
PROJECT NO.: _____ LOCATION: **Brooklyn, NYC**
PROJECT MANAGER: **Rutu Manani**
e-mail: **Rmanani@RU2eng.com**
PHONE: _____ FAX: _____

CLIENT BILLING INFORMATION

BILL TO: **Same as company address** PO#: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____ PHONE: _____

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

7 TCL VOC + TICs
2 TCLP VOCs
3 TPH GRO-DRO
4 TCL SVOCs + TICs
5 TAL Metals
6 Pesticides PCBs
7 PCBs
8 Paint filter
9 full TCLP

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-LO F-OTHER	
1.	JPP-51.2-012925	Soil		G	1/29/25	14:50	3	X	X	X								
2.	JPP-51.2-012925	Soil	L		1/29/25	15:00	8			X	X	X	X	X	X	X		
3.	JPP-16.1-012925	Soil		G	1/29/25	15:59	3	X	X	X								
4.	JPP-16.1-012925	Soil	L		1/29/25	16:00	8			X	X	X	X	X	X	X		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. RA	DATE/TIME: 1/30/2025	RECEIVED BY: [Signature]	1095 1-30-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY:		Comments: Preserve extra Sample Jar if additional analysis is Required.
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1/30/25	RECEIVED BY:		

Page **2** of **2**

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1235	RUTW01	Order Date : 1/30/2025 12:15:00 PM	YG	Project Mgr :
Client Name : RU2 Engineering, LLC		Project Name : ~~SANTWOB- BMCR Bro~~ 02/04/25		Report Type : NYS ASP B
Client Contact : Rutu Manani		Receive DateTime : 1/30/2025 11:52:00 AM		EDD Type : Excel NY
Invoice Name : RU2 Engineering, LLC		Purchase Order :		Hard Copy Date :
Invoice Contact : Rutu Manani				Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1235-01	JPP-51.2-012925	Solid	01/29/2025	14:50					
					VOCMS Group1		8260D	10 Bus. Days	
Q1235-05	JPP-16.1-012925	Solid	01/29/2025	15:54					
					VOCMS Group1		8260D	10 Bus. Days	

Relinquished By :

Date / Time :


1/30/25 1300

Received By :

Date / Time :


1-30-25 13:00

Storage Area : VOA Refridgerator Room

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1235	RUTW01	Order Date : 1/30/2025 12:15:00 PM	YG	Project Mgr :
Client Name : RU2 Engineering, LLC		Project Name : ~~SANTWOBR-BMCR-Bro~~ 02/04/25		Report Type : NYS ASP B
Client Contact : Rutu Manani		Receive DateTime : 1/30/2025 11:52:00 AM	NYCDDC SANTWOBR Brooklyn Bridge	EDD Type : Excel NY
Invoice Name : RU2 Engineering, LLC		Purchase Order :		Hard Copy Date :
Invoice Contact : Rutu Manani				Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1235-01	JPP-51.2-012925	Solid	01/29/2025	14:50					
					Gasoline Range Organics		8015D	10 Bus. Days	
Q1235-05	JPP-16.1-012925	Solid	01/29/2025	15:54					
					Gasoline Range Organics		8015D	10 Bus. Days	

Relinquished By :

Date / Time : 1/30/25 1300

Received By :

Date / Time :

1-30-25

13:00

Storage Area : VOA Refridgerator Room