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Cover Page

Order ID : Q1478

Project ID : Former Schlumberger STC PTC Site # D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
Q1478-01	IDW-AQ-MW-19B-COMP-022825
Q1478-02	IDW-AQ-DRUM-610-022825
Q1478-03	IDW-AQ-IW-01-COMP-022825
Q1478-04	IDW-AQ-DRUM-616-022825
Q1478-05	IDW-AQ-IW-02-COMP-022825
Q1478-06	IDW-AQ-DRUM-614-022825
Q1478-07	IDW-AQ-IW-03-COMP-022825
Q1478-08	IDW-AQ-DRUM-612-022825
Q1478-13	IDW-SO-COMP-022825
Q1478-14	IDW-SO-COMP-022825
Q1478-15	IDW-SO-DRUM-582-022825
Q1478-16	IDW-SO-DRUM-582-022825

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

Signature : _____

Date: 3/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger STC PTC Site # D3868221
Project # N/A
Chemtech Project # Q1478
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 02/28/2025.
8 Water samples were received on 02/28/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Flash Point, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-RCRA, METALS RCRA, PCB, pH, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP VOA, TCLP ZHE Extraction and VOC-TCLVOA-10. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:
The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of Diesel Range Organics was based on method 8015D and extraction was done based on method 3510.

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

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

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

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Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1478 MATRIX: /Water

METHOD: 8015D/3510

		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 recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The RPD met criteria .			✓
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

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

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1478**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **03/11/2025**

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LAB CHRONICLE

OrderID:	Q1478	**OrderDate:**	3/3/2025 10:28:22 AM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger STC PTC Site # D3868221
Contact:	John Ynfante	**Location:**	H31,H41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1478-01	**IDW-AQ-MW-19B-COMP-022825**	**WATER**			**02/28/25**			**02/28/25**
			PCB	8082A		03/04/25	03/04/25	
Q1478-02	**IDW-AQ-DRUM-610-022825**	**Water**			**02/28/25**			**02/28/25**
			Diesel Range Organics	8015D		03/06/25	03/06/25	
			Gasoline Range Organics	8015D			03/04/25	
Q1478-03	**IDW-AQ-IW-01-COMP-022825**	**WATER**			**02/28/25**			**02/28/25**
			PCB	8082A		03/04/25	03/04/25	
Q1478-04	**IDW-AQ-DRUM-616-022825**	**Water**			**02/28/25**			**02/28/25**
			Diesel Range Organics	8015D		03/06/25	03/06/25	
Q1478-05	**IDW-AQ-IW-02-COMP-022825**	**WATER**			**02/28/25**			**02/28/25**
			PCB	8082A		03/04/25	03/04/25	
Q1478-06	**IDW-AQ-DRUM-614-022825**	**Water**			**02/28/25**			**02/28/25**
			Diesel Range Organics	8015D		03/06/25	03/06/25	
Q1478-07	**IDW-AQ-IW-03-COMP-022825**	**WATER**			**02/28/25**			**02/28/25**
			PCB	8082A		03/04/25	03/04/25	
Q1478-08	**IDW-AQ-DRUM-612-022825**	**Water**			**02/28/25**			**02/28/25**
			Diesel Range Organics	8015D		03/06/25	03/06/25	
Q1478-14	**IDW-SO-COMP-022825**	**SOIL**			**02/28/25**			**02/28/25**

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LAB CHRONICLE

			Diesel Range Organics	8015D		03/05/25	03/06/25
			PCB	8082A		03/03/25	03/03/25
Q1478-16	**IDW-SO-DRUM-582-022825**	**SOIL**			**02/28/25**		**02/28/25**
			Gasoline Range Organics	8015D			03/03/25

QC
SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: JACOBS Engineering Group, Inc.

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG No.: Q1478

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF015616.D	104				0
PIBLK-FF015624.D	88				0
PIBLK-FG015446.D	115				0
PIBLK-FG015456.D	92				0
PB167008BL	86				0
PB167008BS	108				0
PB167008BSD	101				0
PB167017BL	76				0
PB167017BS	100				0
IDW-AQ-DRUM-610-022825	90				0
IDW-AQ-DRUM-616-022825	98				0
IDW-AQ-DRUM-614-022825	85				0
IDW-AQ-DRUM-612-022825	96				0
IDW-SO-COMP-022825	106				0
IDW-SO-COMP-022825MS	58				0
IDW-SO-COMP-022825MSD	54				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

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

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** JACOBS Engineering Group, Inc.

Lab Code: CHEM **Cas No:** Q1478 **SAS No :** Q1478 **SDG No:** Q1478

Client SampleID : IDW-SO-COMP-022825MS **Datafile:** FF015622.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7883	1360	8597	92%		68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** JACOBS Engineering Group, Inc.

Lab Code: CHEM **Cas No:** Q1478 **SAS No :** Q1478 **SDG No:** Q1478

Client SampleID : IDW-SO-COMP-022825MSD **Datafile:** FF015623.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7881	1360	8212	87%		68-131

MS/MSD % Recovery RPD : 5.5

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

Lab Name: Chemtech **Client:** JACOBS Engineering Group, Inc.

Lab Code: CHEM **Cas No:** Q1478 **SAS No :** Q1478 **SDG No:** Q1478

Matrix Spike - EPA Sample No : PB167017BS **Datafile:** FF015620.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6662	0	7620	114	68-131

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WATER DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

Lab Name: Chemtech **Client:** JACOBS Engineering Group, Inc.

Lab Code: CHEM **Cas No:** Q1478 **SAS No :** Q1478 **SDG No:** Q1478

Matrix Spike - EPA Sample No : PB167008BS **Datafile:** FG015450.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
DRO	200	0	230	115	78-117

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WATER DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

Lab Name: Chemtech **Client:** JACOBS Engineering Group, Inc.

Lab Code: CHEM **Cas No:** Q1478 **SAS No :** Q1478 **SDG No:** Q1478

Matrix Spike - EPA Sample No : PB167008BSD **Datafile:** FG015451.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
DRO	200	0	209	104	78-117

LCS/LCSD % Recovery RPD : 9.6

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167008BL

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG NO.: Q1478

Lab File ID: FG015449.D Lab Sample ID: PB167008BL

Instrument ID: FG Date Extracted: 03/06/2025

Matrix: (soil/water) Water Date Analyzed: 03/06/25

Level: (low/med) low Time Analyzed: 13:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167008BS	PB167008BS	FG015450.D	03/06/25
PB167008BSD	PB167008BSD	FG015451.D	03/06/25
IDW-AQ-DRUM-610-022825	Q1478-02	FG015452.D	03/06/25
IDW-AQ-DRUM-616-022825	Q1478-04	FG015453.D	03/06/25
IDW-AQ-DRUM-614-022825	Q1478-06	FG015454.D	03/06/25
IDW-AQ-DRUM-612-022825	Q1478-08	FG015455.D	03/06/25

COMMENTS:

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167017BL

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG NO.: Q1478

Lab File ID: FF015619.D Lab Sample ID: PB167017BL

Instrument ID: FF Date Extracted: 03/06/2025

Matrix: (soil/water) Soil Date Analyzed: 03/06/25

Level: (low/med) low Time Analyzed: 10:58

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167017BS	PB167017BS	FF015620.D	03/06/25
IDW-SO-COMP-022825	Q1478-14	FF015621.D	03/06/25
IDW-SO-COMP-022825MS	Q1478-14MS	FF015622.D	03/06/25
IDW-SO-COMP-022825MSD	Q1478-14MSD	FF015623.D	03/06/25

COMMENTS:

Alliance
TECHNICAL GROUP

SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-DRUM-610-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-02	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	900 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015452.D	1	03/06/25 08:29	03/06/25 14:54	PB167008

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	25.0	J	11.0	56.0	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015452.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 14:54
Operator : YP\AJ
Sample : Q1478-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-610-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:17:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.032	1966044	18.057 ug/ml
Target Compounds				

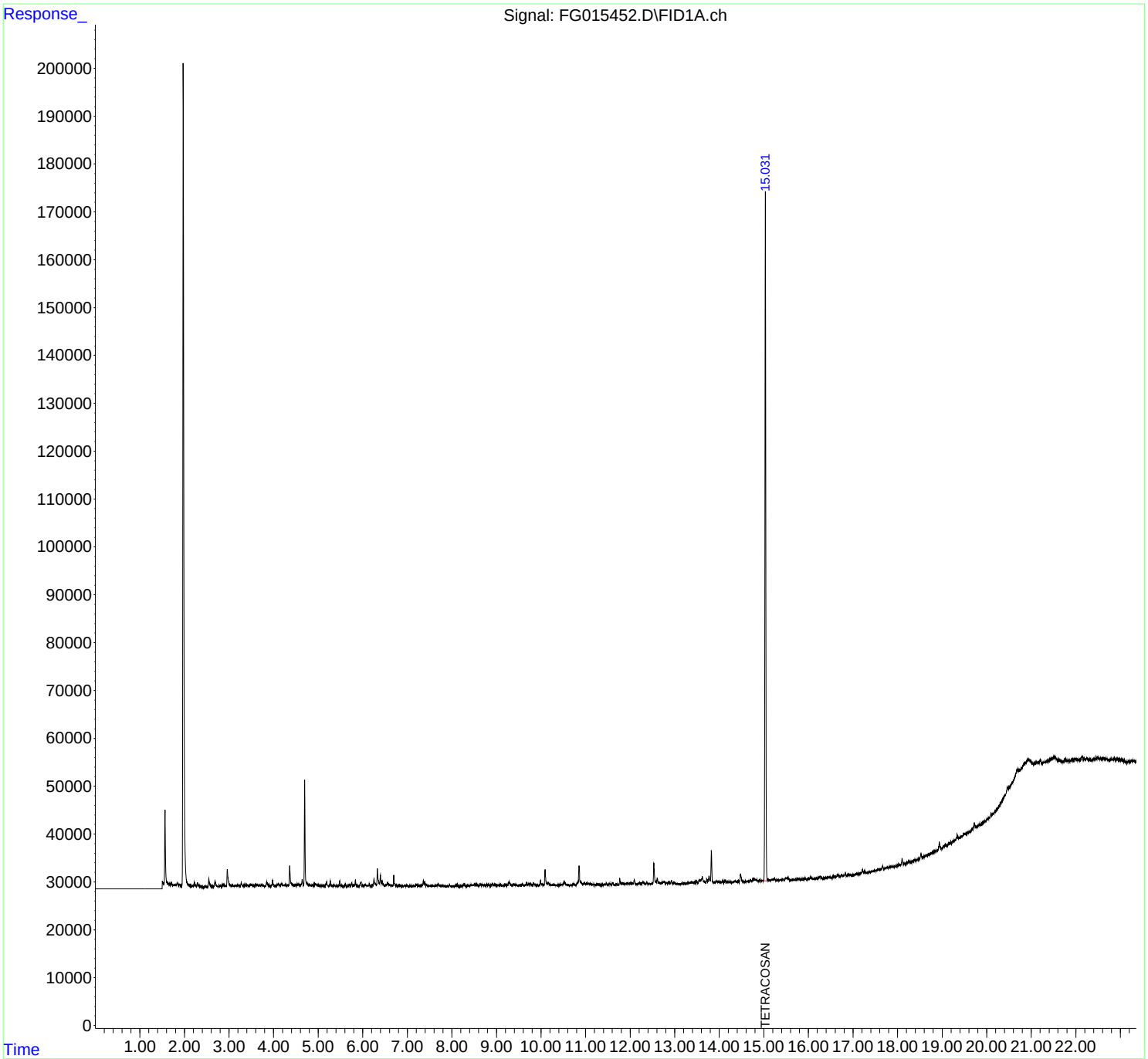
(f)=RT Delta > 1/2 Window (m)=manual int.

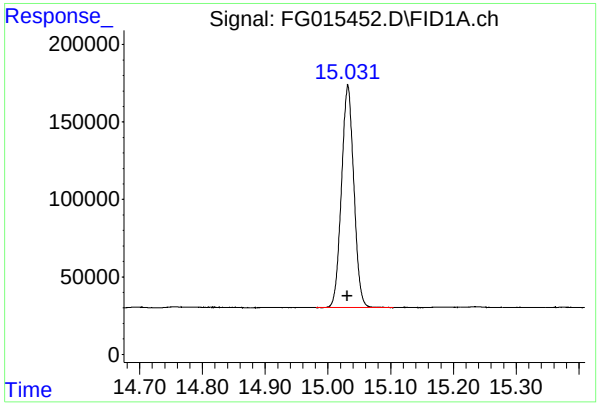
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015452.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 14:54
Operator : YP\AJ
Sample : Q1478-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-610-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:17:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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.: 15.032 min
Delta R.T.: 0.000 mi
Response: 1966044
Conc: 18.06 ug/m

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-610-022825

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015452.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 14:54
Sample : Q1478-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.322	4.306	4.332	BV	12	-100	-0.01%	-0.002%
2	4.362	4.332	4.467	PV	4147	67110	3.40%	1.457%
3	4.478	4.467	4.491	VV	228	2502	0.13%	0.054%
4	4.493	4.491	4.496	VV	199	562	0.03%	0.012%
5	4.503	4.496	4.514	VV	194	1424	0.07%	0.031%
6	4.530	4.514	4.547	VV	437	5481	0.28%	0.119%
7	4.559	4.547	4.586	VV	320	5413	0.27%	0.118%
8	4.592	4.586	4.597	VV	218	1323	0.07%	0.029%
9	4.601	4.597	4.605	VV	224	914	0.05%	0.020%
10	4.642	4.605	4.670	VV	1327	21239	1.07%	0.461%
11	4.698	4.670	4.743	VV	22130	236909	11.99%	5.142%
12	4.750	4.743	4.801	VV	509	10800	0.55%	0.234%
13	4.811	4.801	4.849	VV	215	4370	0.22%	0.095%
14	4.854	4.849	4.883	VV	151	2603	0.13%	0.056%
15	4.886	4.883	4.892	VV	149	569	0.03%	0.012%
16	4.923	4.892	4.971	VV	475	14224	0.72%	0.309%
17	4.977	4.971	4.985	VV	204	1364	0.07%	0.030%
18	5.002	4.985	5.009	VV	261	2935	0.15%	0.064%
19	5.014	5.009	5.025	VV	253	1453	0.07%	0.032%
20	5.039	5.025	5.049	VV	198	1946	0.10%	0.042%
21	5.051	5.049	5.055	VV	126	354	0.02%	0.008%
22	5.058	5.055	5.069	VV	110	745	0.04%	0.016%
23	5.072	5.069	5.091	VV	129	1266	0.06%	0.027%
24	5.107	5.091	5.149	VV	157	2847	0.14%	0.062%
25	5.189	5.149	5.255	VV	954	19466	0.99%	0.423%
26	5.274	5.255	5.294	VV	1177	12461	0.63%	0.270%
27	5.300	5.294	5.309	VV	121	986	0.05%	0.021%
28	5.321	5.309	5.339	VV	188	2387	0.12%	0.052%
29	5.358	5.339	5.389	VV	358	5972	0.30%	0.130%
30	5.394	5.389	5.406	VV	161	1044	0.05%	0.023%
31	5.412	5.406	5.414	VV	134	399	0.02%	0.009%
32	5.417	5.414	5.434	VV	123	763	0.04%	0.017%
33	5.448	5.434	5.463	PV	158	1173	0.06%	0.025%
34	5.482	5.463	5.517	VV	1218	15945	0.81%	0.346%
35	5.523	5.517	5.528	VV	242	1313	0.07%	0.029%
36	5.533	5.528	5.584	VV	225	3306	0.17%	0.072%

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37	5.606	5.584	5.644	VV	560	8572	0.43%	0.186%
38	5.647	5.644	5.656	VV	39	194	0.01%	0.004%
39	5.670	5.656	5.685	VV	281	2972	0.15%	0.065%
40	5.702	5.685	5.734	VV	545	7907	0.40%	0.172%
41	5.752	5.734	5.779	VV	850	10536	0.53%	0.229%
42	5.787	5.779	5.814	VV	302	4322	0.22%	0.094%
43	5.836	5.814	5.857	VV	1402	16458	0.83%	0.357%
44	5.871	5.857	5.901	VV	377	5709	0.29%	0.124%
45	5.913	5.901	5.918	VV	172	1270	0.06%	0.028%
46	5.952	5.918	5.988	VV	819	19043	0.96%	0.413%
47	5.991	5.988	6.002	VV	256	1513	0.08%	0.033%
48	6.027	6.002	6.033	VV	299	3675	0.19%	0.080%
49	6.056	6.033	6.082	VV	449	8926	0.45%	0.194%
50	6.087	6.082	6.111	VV	335	3961	0.20%	0.086%
51	6.122	6.111	6.132	VV	215	2317	0.12%	0.050%
52	6.146	6.132	6.179	VV	520	7910	0.40%	0.172%
53	6.211	6.179	6.216	VV	401	4032	0.20%	0.088%
54	6.219	6.216	6.227	VV	311	1752	0.09%	0.038%
55	6.253	6.227	6.310	VV	1603	33398	1.69%	0.725%
56	6.328	6.310	6.372	VV	3587	58239	2.95%	1.264%
57	6.398	6.372	6.417	VV	2436	34876	1.76%	0.757%
58	6.437	6.417	6.501	VV	1181	29676	1.50%	0.644%
59	6.508	6.501	6.528	VV	334	4922	0.25%	0.107%
60	6.557	6.528	6.591	VV	932	20557	1.04%	0.446%
61	6.594	6.591	6.620	VV	421	6317	0.32%	0.137%
62	6.630	6.620	6.660	VV	371	6682	0.34%	0.145%
63	6.668	6.660	6.676	VV	179	1583	0.08%	0.034%
64	6.697	6.676	6.735	VV	2442	33192	1.68%	0.720%
65	6.740	6.735	6.754	VV	255	2501	0.13%	0.054%
66	6.760	6.754	6.806	VV	243	6258	0.32%	0.136%
67	6.809	6.806	6.817	VV	219	1542	0.08%	0.033%
68	6.830	6.817	6.849	VV	388	4873	0.25%	0.106%
69	6.855	6.849	6.874	VV	174	2329	0.12%	0.051%
70	6.879	6.874	6.895	VV	262	1935	0.10%	0.042%
71	6.902	6.895	6.907	VV	121	769	0.04%	0.017%
72	6.928	6.907	6.960	VV	250	4584	0.23%	0.099%
73	6.992	6.960	7.016	PV	372	6856	0.35%	0.149%
74	7.028	7.016	7.033	VV	107	773	0.04%	0.017%
75	7.053	7.033	7.086	VV	257	4664	0.24%	0.101%
76	7.092	7.086	7.105	VV	143	861	0.04%	0.019%
77	7.111	7.105	7.115	VV	96	411	0.02%	0.009%
78	7.126	7.115	7.139	VV	197	2269	0.11%	0.049%
79	7.159	7.139	7.181	VV	254	4547	0.23%	0.099%
80	7.196	7.181	7.201	VV	433	4048	0.20%	0.088%
81	7.204	7.201	7.238	VV	432	7191	0.36%	0.156%
82	7.242	7.238	7.261	VV	336	3423	0.17%	0.074%
83	7.268	7.261	7.296	VV	293	5130	0.26%	0.111%
84	7.300	7.296	7.310	VV	262	1788	0.09%	0.039%
85	7.361	7.310	7.376	VV	1374	19887	1.01%	0.432%
86	7.390	7.376	7.418	VV	1107	15922	0.81%	0.346%
87	7.432	7.418	7.470	VV	336	6796	0.34%	0.148%
88	7.488	7.470	7.522	VV	252	4823	0.24%	0.105%
89	7.538	7.522	7.542	VV	178	1662	0.08%	0.036%

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90	7.595	7.542	7.602	VV	224	6048	0.31%	0.131%
91	7.609	7.602	7.622	VV	236	2074	0.10%	0.045%
92	7.637	7.622	7.652	VV	317	4669	0.24%	0.101%
93	7.664	7.652	7.674	VV	288	3194	0.16%	0.069%
94	7.696	7.674	7.722	VV	630	11294	0.57%	0.245%
95	7.733	7.722	7.745	VV	227	2506	0.13%	0.054%
96	7.757	7.745	7.779	VV	249	3657	0.19%	0.079%
97	7.785	7.779	7.804	VV	212	2451	0.12%	0.053%
98	7.809	7.804	7.815	VV	176	968	0.05%	0.021%
99	7.820	7.815	7.841	VV	138	1365	0.07%	0.030%
100	7.875	7.841	7.881	PV	130	1644	0.08%	0.036%
101	7.883	7.881	7.899	VV	197	1173	0.06%	0.025%
102	7.906	7.899	7.924	VV	125	1411	0.07%	0.031%
103	7.947	7.924	7.979	VV	404	6682	0.34%	0.145%
104	7.984	7.979	7.998	VV	106	924	0.05%	0.020%
105	8.011	7.998	8.017	VV	103	812	0.04%	0.018%
106	8.021	8.017	8.060	VV	136	2148	0.11%	0.047%
107	8.065	8.060	8.068	VV	162	511	0.03%	0.011%
108	8.096	8.068	8.101	VV	330	4646	0.24%	0.101%
109	8.120	8.101	8.156	VV	460	7432	0.38%	0.161%
110	8.160	8.156	8.176	VV	154	889	0.04%	0.019%
111	8.212	8.176	8.226	VV	207	2864	0.14%	0.062%
112	8.231	8.226	8.236	VV	135	547	0.03%	0.012%
113	8.274	8.236	8.309	VV	672	11445	0.58%	0.248%
114	8.332	8.309	8.338	VV	189	2255	0.11%	0.049%
115	8.347	8.338	8.356	VV	177	1663	0.08%	0.036%
116	8.360	8.356	8.366	VV	167	826	0.04%	0.018%
117	8.382	8.366	8.411	VV	285	5061	0.26%	0.110%
118	8.412	8.411	8.416	VV	195	514	0.03%	0.011%
119	8.447	8.416	8.473	VV	357	8655	0.44%	0.188%
120	8.514	8.473	8.531	VV	625	12554	0.64%	0.273%
121	8.549	8.531	8.572	VV	463	9263	0.47%	0.201%
122	8.579	8.572	8.584	VV	288	1710	0.09%	0.037%
123	8.590	8.584	8.614	VV	246	3014	0.15%	0.065%
124	8.633	8.614	8.679	VV	598	13253	0.67%	0.288%
125	8.693	8.679	8.701	VV	357	4122	0.21%	0.089%
126	8.706	8.701	8.731	VV	367	4916	0.25%	0.107%
127	8.745	8.731	8.756	VV	282	3364	0.17%	0.073%
128	8.761	8.756	8.766	VV	231	1216	0.06%	0.026%
129	8.788	8.766	8.829	VV	384	9186	0.46%	0.199%
130	8.831	8.829	8.836	VV	200	750	0.04%	0.016%
131	8.845	8.836	8.866	VV	184	2218	0.11%	0.048%
132	8.911	8.866	8.939	VV	738	12055	0.61%	0.262%
133	8.966	8.939	8.993	VV	390	8524	0.43%	0.185%
134	9.016	8.993	9.029	VV	293	4672	0.24%	0.101%
135	9.041	9.029	9.062	VV	233	3689	0.19%	0.080%
136	9.067	9.062	9.082	VV	327	2911	0.15%	0.063%
137	9.085	9.082	9.106	VV	273	3280	0.17%	0.071%
138	9.110	9.106	9.122	VV	209	1167	0.06%	0.025%
139	9.137	9.122	9.149	VV	137	1591	0.08%	0.035%
140	9.160	9.149	9.174	VV	203	2162	0.11%	0.047%
141	9.200	9.174	9.232	VV	276	6886	0.35%	0.149%

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142	9.241	9.232	9.259	VV	242	2947	0.15%	0.064%
143	9.280	9.259	9.342	VV	931	22582	1.14%	0.490%
144	9.378	9.342	9.402	VV	351	10041	0.51%	0.218%
145	9.410	9.402	9.454	VV	317	6755	0.34%	0.147%
146	9.457	9.454	9.479	VV	237	2092	0.11%	0.045%
147	9.494	9.479	9.527	VV	154	3760	0.19%	0.082%
148	9.536	9.527	9.549	VV	185	1739	0.09%	0.038%
149	9.572	9.549	9.624	VV	416	10622	0.54%	0.231%
150	9.676	9.624	9.697	VV	753	12439	0.63%	0.270%
151	9.725	9.697	9.741	VV	459	8965	0.45%	0.195%
152	9.760	9.741	9.802	VV	486	10419	0.53%	0.226%
153	9.833	9.802	9.907	VV	584	17154	0.87%	0.372%
154	9.921	9.907	9.967	VV	199	4772	0.24%	0.104%
155	9.989	9.967	10.019	VV	1145	17240	0.87%	0.374%
156	10.031	10.019	10.061	VV	336	5650	0.29%	0.123%
157	10.092	10.061	10.138	VV	3361	56431	2.86%	1.225%
158	10.161	10.138	10.242	VV	681	20874	1.06%	0.453%
159	10.266	10.242	10.311	VV	371	7522	0.38%	0.163%
160	10.320	10.311	10.339	VV	188	2203	0.11%	0.048%
161	10.347	10.339	10.381	VV	85	1600	0.08%	0.035%
162	10.406	10.381	10.450	PV	260	7367	0.37%	0.160%
163	10.468	10.450	10.484	VV	260	4205	0.21%	0.091%
164	10.519	10.484	10.601	VV	1019	27285	1.38%	0.592%
165	10.618	10.601	10.659	VV	228	4831	0.24%	0.105%
166	10.689	10.659	10.707	VV	189	3678	0.19%	0.080%
167	10.727	10.707	10.737	VV	333	4379	0.22%	0.095%
168	10.746	10.737	10.782	VV	332	5346	0.27%	0.116%
169	10.854	10.782	10.894	VV	4173	76550	3.87%	1.662%
170	10.902	10.894	10.949	VV	714	14493	0.73%	0.315%
171	10.970	10.949	10.999	VV	609	12466	0.63%	0.271%
172	11.025	10.999	11.061	VV	511	14275	0.72%	0.310%
173	11.069	11.061	11.079	VV	454	4069	0.21%	0.088%
174	11.092	11.079	11.112	VV	438	6280	0.32%	0.136%
175	11.128	11.112	11.157	VV	404	6350	0.32%	0.138%
176	11.171	11.157	11.222	VV	240	5358	0.27%	0.116%
177	11.244	11.222	11.262	VV	316	4496	0.23%	0.098%
178	11.295	11.262	11.330	VV	256	7521	0.38%	0.163%
179	11.340	11.330	11.394	VV	205	4257	0.22%	0.092%
180	11.422	11.394	11.444	VV	255	4776	0.24%	0.104%
181	11.467	11.444	11.510	VV	445	9640	0.49%	0.209%
182	11.540	11.510	11.572	VV	468	8760	0.44%	0.190%
183	11.611	11.572	11.665	VV	587	12045	0.61%	0.261%
184	11.691	11.665	11.726	VV	335	6202	0.31%	0.135%
185	11.767	11.726	11.809	PV	1390	25007	1.27%	0.543%
186	11.828	11.809	11.889	VV	375	13497	0.68%	0.293%
187	11.898	11.889	11.916	VV	303	4151	0.21%	0.090%
188	11.930	11.916	11.942	VV	490	5962	0.30%	0.129%
189	11.952	11.942	11.977	VV	357	6422	0.32%	0.139%
190	12.027	11.977	12.074	VV	495	19953	1.01%	0.433%
191	12.092	12.074	12.159	VV	1027	19424	0.98%	0.422%
192	12.167	12.159	12.176	VV	157	1645	0.08%	0.036%
193	12.194	12.176	12.207	VV	316	5071	0.26%	0.110%
194	12.221	12.207	12.248	VV	374	7034	0.36%	0.153%

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195	12.282	12.248	12.296	VV	580	11026	0.56%	0.239%
196	12.308	12.296	12.352	VV	550	11356	0.57%	0.247%
197	12.373	12.352	12.430	VV	675	12734	0.64%	0.276%
198	12.441	12.430	12.464	VV	285	3812	0.19%	0.083%
199	12.497	12.464	12.507	VV	357	5651	0.29%	0.123%
200	12.530	12.507	12.572	VV	4515	70659	3.58%	1.534%
201	12.609	12.572	12.687	VV	1296	38550	1.95%	0.837%
202	12.701	12.687	12.709	VV	353	3625	0.18%	0.079%
203	12.739	12.709	12.749	VV	511	9985	0.51%	0.217%
204	12.765	12.749	12.802	VV	700	14176	0.72%	0.308%
205	12.824	12.802	12.835	VV	372	5913	0.30%	0.128%
206	12.865	12.835	12.904	VV	580	14942	0.76%	0.324%
207	12.927	12.904	12.969	VV	775	15035	0.76%	0.326%
208	12.990	12.969	13.031	VV	513	9922	0.50%	0.215%
209	13.047	13.031	13.109	VV	183	5524	0.28%	0.120%
210	13.119	13.109	13.138	VV	85	892	0.05%	0.019%
211	13.200	13.138	13.219	PV	258	5228	0.26%	0.113%
212	13.226	13.219	13.254	VV	189	2578	0.13%	0.056%
213	13.296	13.254	13.324	VV	277	7432	0.38%	0.161%
214	13.339	13.324	13.349	VV	281	3935	0.20%	0.085%
215	13.375	13.349	13.396	VV	376	8422	0.43%	0.183%
216	13.420	13.396	13.444	VV	325	7097	0.36%	0.154%
217	13.455	13.444	13.472	VV	312	4244	0.21%	0.092%
218	13.488	13.472	13.516	VV	638	9074	0.46%	0.197%
219	13.543	13.516	13.566	VV	774	14308	0.72%	0.311%
220	13.618	13.566	13.656	VV	1454	44131	2.23%	0.958%
221	13.667	13.656	13.697	VV	439	7586	0.38%	0.165%
222	13.721	13.697	13.749	VV	826	16966	0.86%	0.368%
223	13.771	13.749	13.796	VV	1506	25138	1.27%	0.546%
224	13.821	13.796	13.870	VV	6845	90118	4.56%	1.956%
225	13.885	13.870	13.910	VV	207	3744	0.19%	0.081%
226	13.946	13.910	13.966	VV	422	10057	0.51%	0.218%
227	13.987	13.966	14.024	VV	315	7914	0.40%	0.172%
228	14.079	14.024	14.104	VV	414	10992	0.56%	0.239%
229	14.129	14.104	14.164	VV	655	11432	0.58%	0.248%
230	14.179	14.164	14.204	VV	220	3770	0.19%	0.082%
231	14.227	14.204	14.267	VV	177	4379	0.22%	0.095%
232	14.271	14.267	14.307	VV	156	1705	0.09%	0.037%
233	14.358	14.307	14.394	VV	346	11445	0.58%	0.248%
234	14.406	14.394	14.447	VV	209	5289	0.27%	0.115%
235	14.477	14.447	14.584	VV	1623	36374	1.84%	0.790%
236	14.601	14.584	14.622	VV	181	2546	0.13%	0.055%
237	14.636	14.622	14.669	VV	250	4156	0.21%	0.090%
238	14.695	14.669	14.726	VV	599	10470	0.53%	0.227%
239	14.756	14.726	14.807	VV	717	22224	1.12%	0.482%
240	14.815	14.807	14.841	VV	433	7281	0.37%	0.158%
241	14.852	14.841	14.877	VV	379	5210	0.26%	0.113%
242	14.903	14.877	14.947	VV	307	9040	0.46%	0.196%
243	14.967	14.947	14.984	VV	289	4580	0.23%	0.099%
244	15.032	14.984	15.104	VV	143837	1976161	100.00%	42.895%
245	15.124	15.104	15.151	VV	279	5549	0.28%	0.120%
246	15.184	15.151	15.210	VV	441	11350	0.57%	0.246%

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247	15.234	15.210	15.278	VV	674	14748	0.75%	0.320%
248	15.288	15.278	15.297	VV	199	2056	0.10%	0.045%
249	15.306	15.297	15.351	VV	173	4485	0.23%	0.097%
250	15.374	15.351	15.406	VV	302	6000	0.30%	0.130%
251	15.430	15.406	15.459	PV	402	7171	0.36%	0.156%
252	15.479	15.459	15.487	VV	540	6121	0.31%	0.133%
253	15.500	15.487	15.510	VV	538	6245	0.32%	0.136%
254	15.527	15.510	15.539	VV	604	9088	0.46%	0.197%
255	15.551	15.539	15.604	VV	503	8541	0.43%	0.185%
256	15.652	15.604	15.677	VV	226	5651	0.29%	0.123%
257	15.718	15.677	15.734	VV	216	5059	0.26%	0.110%
258	15.760	15.734	15.801	VV	456	10094	0.51%	0.219%
259	15.809	15.801	15.846	VV	204	3228	0.16%	0.070%
260	15.852	15.846	15.866	VV	118	1034	0.05%	0.022%
261	15.892	15.866	15.919	VV	358	6974	0.35%	0.151%
262	15.933	15.919	15.967	VV	184	3634	0.18%	0.079%
263	16.049	15.967	16.117	PV	436	13461	0.68%	0.292%
264	16.126	16.117	16.154	PV	106	1610	0.08%	0.035%
265	16.188	16.154	16.202	VV	227	3859	0.20%	0.084%
266	16.214	16.202	16.234	VV	248	3400	0.17%	0.074%
267	16.260	16.234	16.344	VV	581	12297	0.62%	0.267%
268	16.403	16.344	16.414	PV	141	3599	0.18%	0.078%
269	16.439	16.414	16.511	VV	250	6621	0.34%	0.144%
270	16.519	16.511	16.531	VV	106	920	0.05%	0.020%
271	16.587	16.531	16.609	PV	199	6683	0.34%	0.145%
272	16.619	16.609	16.627	VV	170	1478	0.07%	0.032%
273	16.657	16.627	16.724	VV	544	15598	0.79%	0.339%
274	16.745	16.724	16.775	VV	528	8615	0.44%	0.187%
275	16.826	16.775	16.854	VV	597	12889	0.65%	0.280%
276	16.867	16.854	16.874	VV	177	1525	0.08%	0.033%
277	16.910	16.874	16.934	VV	261	6542	0.33%	0.142%
278	16.967	16.934	17.003	VV	198	6552	0.33%	0.142%
279	17.031	17.003	17.042	PV	161	3411	0.17%	0.074%
280	17.063	17.042	17.072	VV	177	2916	0.15%	0.063%
281	17.097	17.072	17.139	VV	238	6332	0.32%	0.137%
282	17.211	17.139	17.237	VV	872	19615	0.99%	0.426%
283	17.259	17.237	17.297	VV	521	8489	0.43%	0.184%
284	17.380	17.297	17.392	PV	124	3497	0.18%	0.076%

Sum of corrected areas: 4607012

FG030325.M Fri Mar 07 01:42:47 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-DRUM-616-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-04	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	890 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015453.D	1	03/06/25 08:29	03/06/25 15:23	PB167008

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	101		11.0	56.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	19.6		29 - 130	98%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015453.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 15:23
Operator : YP\AJ
Sample : Q1478-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-616-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:17:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.031	2133350	19.594 ug/ml
	Target Compounds			

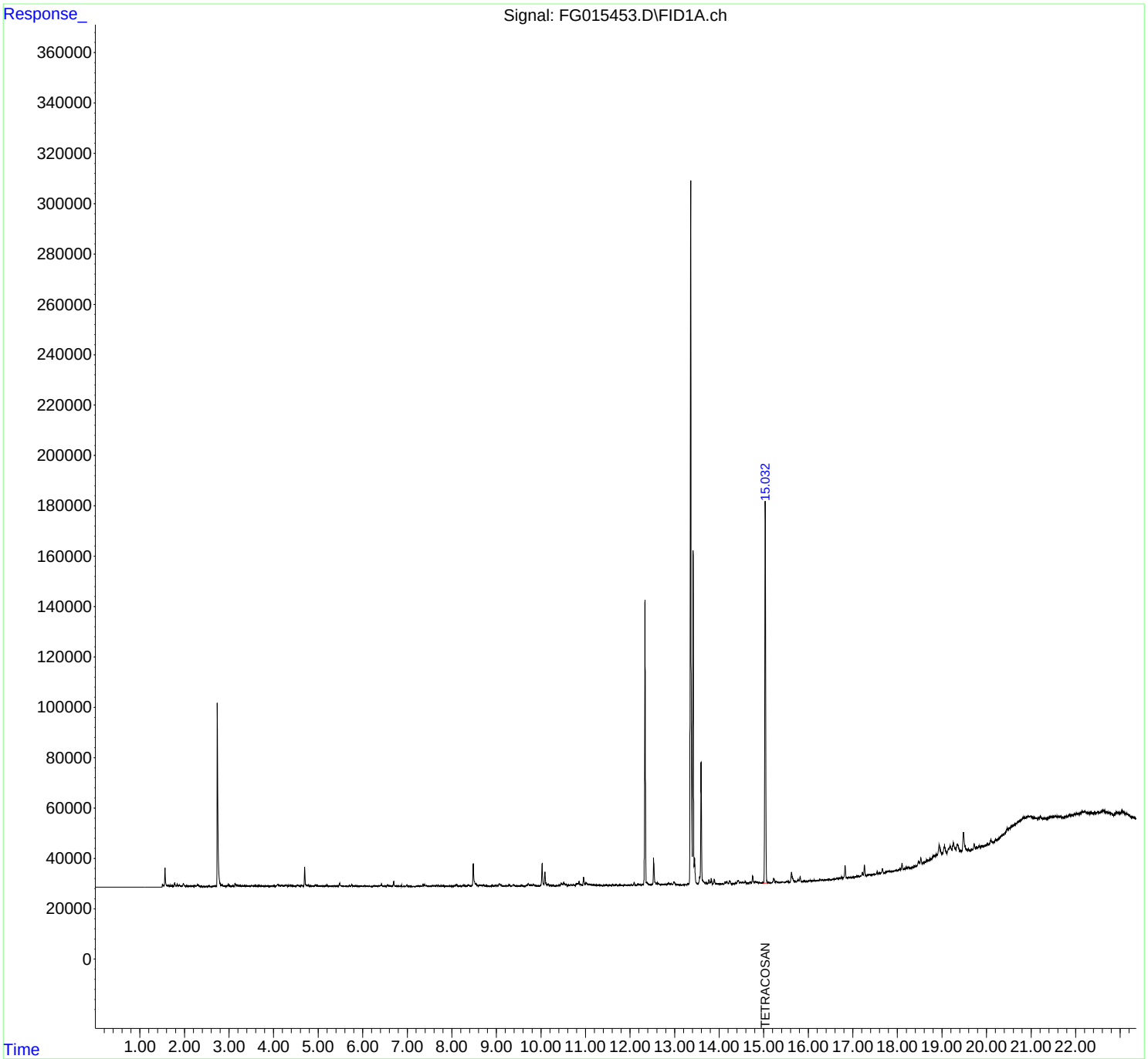
(f)=RT Delta > 1/2 Window (m)=manual int.

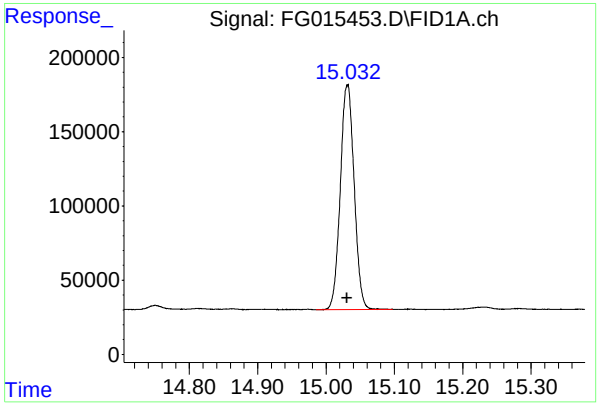
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015453.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 15:23
Operator : YP\AJ
Sample : Q1478-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-616-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:17:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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.: 15.031 min
Delta R.T.: 0.000 mi
Response: 2133350
Conc: 19.59 ug/m

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-616-022825

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015453.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 15:23
Sample : Q1478-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.332	4.318	4.341	BV	20	39	0.00%	0.000%
2	4.366	4.341	4.400	PV	265	4346	0.12%	0.034%
3	4.407	4.400	4.418	PV	184	1185	0.03%	0.009%
4	4.423	4.418	4.455	VV	155	2128	0.06%	0.017%
5	4.458	4.455	4.465	PV	134	403	0.01%	0.003%
6	4.469	4.465	4.482	VV	133	953	0.03%	0.008%
7	4.497	4.482	4.513	VV	185	2275	0.06%	0.018%
8	4.530	4.513	4.558	VV	589	8800	0.23%	0.069%
9	4.561	4.558	4.594	VV	193	3418	0.09%	0.027%
10	4.607	4.594	4.632	VV	220	3149	0.08%	0.025%
11	4.654	4.632	4.676	VV	383	5575	0.15%	0.044%
12	4.699	4.676	4.776	VV	7596	90350	2.39%	0.711%
13	4.780	4.776	4.802	VV	394	2861	0.08%	0.023%
14	4.808	4.802	4.834	VV	247	2436	0.06%	0.019%
15	4.843	4.834	4.854	VV	196	1707	0.05%	0.013%
16	4.857	4.854	4.864	VV	175	791	0.02%	0.006%
17	4.927	4.864	4.931	VV	337	7457	0.20%	0.059%
18	4.938	4.931	4.958	VV	452	4983	0.13%	0.039%
19	4.962	4.958	4.978	VV	339	2888	0.08%	0.023%
20	4.982	4.978	4.994	VV	504	1816	0.05%	0.014%
21	4.996	4.994	5.004	VV	193	1016	0.03%	0.008%
22	5.013	5.004	5.023	VV	206	1819	0.05%	0.014%
23	5.028	5.023	5.050	VV	192	1963	0.05%	0.015%
24	5.054	5.050	5.090	VV	177	2951	0.08%	0.023%
25	5.097	5.090	5.107	VV	181	1007	0.03%	0.008%
26	5.113	5.107	5.148	VV	111	1966	0.05%	0.015%
27	5.157	5.148	5.169	PV	134	1077	0.03%	0.008%
28	5.191	5.169	5.232	VV	558	8550	0.23%	0.067%
29	5.237	5.232	5.254	VV	106	884	0.02%	0.007%
30	5.258	5.254	5.262	VV	104	307	0.01%	0.002%
31	5.271	5.262	5.276	VV	140	865	0.02%	0.007%
32	5.280	5.276	5.313	VV	167	2390	0.06%	0.019%
33	5.322	5.313	5.339	VV	129	1178	0.03%	0.009%
34	5.361	5.339	5.396	VV	408	6505	0.17%	0.051%
35	5.405	5.396	5.410	VV	140	895	0.02%	0.007%
36	5.416	5.410	5.425	VV	137	760	0.02%	0.006%

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37	5.445	5.425	5.461	VV	179	2366	0.06%	0.019%
38	5.482	5.461	5.542	VV	1377	23227	0.62%	0.183%
39	5.544	5.542	5.564	VV	214	1954	0.05%	0.015%
40	5.572	5.564	5.589	VV	160	1316	0.03%	0.010%
41	5.613	5.589	5.660	VV	203	4435	0.12%	0.035%
42	5.666	5.660	5.671	VV	117	456	0.01%	0.004%
43	5.697	5.671	5.732	VV	364	6292	0.17%	0.050%
44	5.754	5.732	5.788	VV	733	11238	0.30%	0.088%
45	5.794	5.788	5.809	VV	223	2251	0.06%	0.018%
46	5.813	5.809	5.815	VV	221	688	0.02%	0.005%
47	5.820	5.815	5.834	VV	250	2505	0.07%	0.020%
48	5.838	5.834	5.853	VV	256	2211	0.06%	0.017%
49	5.865	5.853	5.899	VV	379	5002	0.13%	0.039%
50	5.921	5.899	5.927	VV	223	2211	0.06%	0.017%
51	5.936	5.927	5.957	VV	192	2905	0.08%	0.023%
52	5.971	5.957	5.993	VV	234	3666	0.10%	0.029%
53	5.998	5.993	6.001	VV	165	600	0.02%	0.005%
54	6.005	6.001	6.029	VV	137	2013	0.05%	0.016%
55	6.032	6.029	6.036	VV	179	541	0.01%	0.004%
56	6.055	6.036	6.090	VV	372	6760	0.18%	0.053%
57	6.106	6.090	6.127	VV	129	2133	0.06%	0.017%
58	6.152	6.127	6.174	VV	266	3557	0.09%	0.028%
59	6.177	6.174	6.202	PV	95	1045	0.03%	0.008%
60	6.210	6.202	6.216	VV	128	506	0.01%	0.004%
61	6.248	6.216	6.277	VV	467	8244	0.22%	0.065%
62	6.280	6.277	6.299	VV	238	2920	0.08%	0.023%
63	6.306	6.299	6.341	VV	213	4448	0.12%	0.035%
64	6.358	6.341	6.373	VV	359	5176	0.14%	0.041%
65	6.379	6.373	6.384	VV	272	1732	0.05%	0.014%
66	6.424	6.384	6.471	VV	990	20246	0.54%	0.159%
67	6.479	6.471	6.489	VV	180	1625	0.04%	0.013%
68	6.506	6.489	6.538	VV	233	5447	0.14%	0.043%
69	6.559	6.538	6.587	VV	561	11706	0.31%	0.092%
70	6.596	6.587	6.632	VV	365	6832	0.18%	0.054%
71	6.636	6.632	6.677	VV	260	4679	0.12%	0.037%
72	6.696	6.677	6.743	VV	2143	27964	0.74%	0.220%
73	6.748	6.743	6.754	VV	160	967	0.03%	0.008%
74	6.762	6.754	6.776	VV	222	2070	0.05%	0.016%
75	6.806	6.776	6.815	VV	295	4680	0.12%	0.037%
76	6.822	6.815	6.837	VV	233	2453	0.06%	0.019%
77	6.842	6.837	6.858	VV	188	2222	0.06%	0.017%
78	6.876	6.858	6.905	VV	423	4590	0.12%	0.036%
79	6.921	6.905	6.927	VV	171	1226	0.03%	0.010%
80	6.934	6.927	6.939	VV	142	830	0.02%	0.007%
81	6.944	6.939	6.963	VV	162	1417	0.04%	0.011%
82	6.990	6.963	7.011	VV	788	9520	0.25%	0.075%
83	7.028	7.011	7.036	VV	144	1538	0.04%	0.012%
84	7.039	7.036	7.046	VV	149	675	0.02%	0.005%
85	7.054	7.046	7.058	VV	156	807	0.02%	0.006%
86	7.063	7.058	7.113	VV	191	3992	0.11%	0.031%
87	7.126	7.113	7.132	VV	121	974	0.03%	0.008%
88	7.138	7.132	7.149	PV	78	671	0.02%	0.005%
89	7.155	7.149	7.160	VV	138	601	0.02%	0.005%

90	7.165	7.160	7.178	VV	150	863	0.02%	0.007%
91	7.181	7.178	7.187	VV	69	361	0.01%	0.003%
92	7.219	7.187	7.233	VV	302	5443	0.14%	0.043%
93	7.238	7.233	7.260	VV	269	3410	0.09%	0.027%
94	7.265	7.260	7.276	VV	206	1455	0.04%	0.011%
95	7.298	7.276	7.323	VV	229	4346	0.12%	0.034%
96	7.355	7.323	7.376	VV	1049	14849	0.39%	0.117%
97	7.390	7.376	7.421	VV	802	12439	0.33%	0.098%
98	7.434	7.421	7.448	VV	349	4573	0.12%	0.036%
99	7.452	7.448	7.475	VV	197	2184	0.06%	0.017%
100	7.494	7.475	7.518	VV	256	3712	0.10%	0.029%
101	7.533	7.518	7.539	VV	191	1615	0.04%	0.013%
102	7.541	7.539	7.544	VV	167	499	0.01%	0.004%
103	7.561	7.544	7.567	VV	319	3328	0.09%	0.026%
104	7.573	7.567	7.584	VV	358	3314	0.09%	0.026%
105	7.585	7.584	7.590	VV	364	1224	0.03%	0.010%
106	7.604	7.590	7.622	VV	410	6274	0.17%	0.049%
107	7.635	7.622	7.648	VV	415	5346	0.14%	0.042%
108	7.658	7.648	7.688	VV	422	7171	0.19%	0.056%
109	7.696	7.688	7.727	VV	350	5087	0.13%	0.040%
110	7.733	7.727	7.736	VV	94	471	0.01%	0.004%
111	7.740	7.736	7.742	VV	121	357	0.01%	0.003%
112	7.760	7.742	7.771	VV	377	4562	0.12%	0.036%
113	7.776	7.771	7.784	VV	327	2304	0.06%	0.018%
114	7.788	7.784	7.832	VV	329	6186	0.16%	0.049%
115	7.836	7.832	7.846	VV	199	1377	0.04%	0.011%
116	7.854	7.846	7.879	VV	163	2328	0.06%	0.018%
117	7.887	7.879	7.903	VV	110	1259	0.03%	0.010%
118	7.909	7.903	7.916	VV	154	796	0.02%	0.006%
119	7.946	7.916	7.969	VV	344	5238	0.14%	0.041%
120	8.014	7.969	8.027	VV	187	3063	0.08%	0.024%
121	8.039	8.027	8.048	VV	186	1768	0.05%	0.014%
122	8.094	8.048	8.109	VV	582	15051	0.40%	0.118%
123	8.117	8.109	8.144	VV	623	8236	0.22%	0.065%
124	8.155	8.144	8.180	VV	258	3937	0.10%	0.031%
125	8.191	8.180	8.226	VV	216	4451	0.12%	0.035%
126	8.245	8.226	8.258	VV	381	5146	0.14%	0.040%
127	8.273	8.258	8.303	VV	504	7566	0.20%	0.060%
128	8.312	8.303	8.332	VV	164	2264	0.06%	0.018%
129	8.373	8.332	8.399	VV	525	13449	0.36%	0.106%
130	8.409	8.399	8.414	VV	310	2082	0.06%	0.016%
131	8.440	8.414	8.445	VV	327	4906	0.13%	0.039%
132	8.451	8.445	8.457	VV	317	2129	0.06%	0.017%
133	8.482	8.457	8.531	VV	9155	137302	3.64%	1.080%
134	8.546	8.531	8.602	VV	1285	27947	0.74%	0.220%
135	8.622	8.602	8.629	VV	459	6224	0.16%	0.049%
136	8.636	8.629	8.641	VV	409	2799	0.07%	0.022%
137	8.644	8.641	8.666	VV	379	4884	0.13%	0.038%
138	8.714	8.666	8.756	VV	682	20543	0.54%	0.162%
139	8.760	8.756	8.771	VV	228	1782	0.05%	0.014%
140	8.779	8.771	8.791	VV	336	3034	0.08%	0.024%
141	8.794	8.791	8.825	VV	279	2929	0.08%	0.023%

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142	8.832	8.825	8.858	VV	141	1761	0.05%	0.014%
143	8.875	8.858	8.896	VV	270	3230	0.09%	0.025%
144	8.910	8.896	8.939	VV	686	8158	0.22%	0.064%
145	8.969	8.939	8.994	VV	453	8228	0.22%	0.065%
146	9.004	8.994	9.018	VV	265	3445	0.09%	0.027%
147	9.023	9.018	9.039	VV	334	3412	0.09%	0.027%
148	9.066	9.039	9.135	VV	1115	32186	0.85%	0.253%
149	9.141	9.135	9.177	VV	268	3986	0.11%	0.031%
150	9.195	9.177	9.237	VV	253	7157	0.19%	0.056%
151	9.244	9.237	9.259	VV	227	2740	0.07%	0.022%
152	9.280	9.259	9.337	VV	691	15607	0.41%	0.123%
153	9.379	9.337	9.451	VV	765	20906	0.55%	0.165%
154	9.455	9.451	9.458	VV	186	555	0.01%	0.004%
155	9.461	9.458	9.467	VV	189	815	0.02%	0.006%
156	9.471	9.467	9.498	VV	177	1931	0.05%	0.015%
157	9.511	9.498	9.543	VV	170	2960	0.08%	0.023%
158	9.558	9.543	9.591	VV	362	6756	0.18%	0.053%
159	9.611	9.591	9.624	VV	131	1396	0.04%	0.011%
160	9.639	9.624	9.649	PV	76	639	0.02%	0.005%
161	9.676	9.649	9.692	VV	604	8184	0.22%	0.064%
162	9.713	9.692	9.749	VV	1070	22143	0.59%	0.174%
163	9.759	9.749	9.777	VV	572	7488	0.20%	0.059%
164	9.780	9.777	9.798	VV	357	4248	0.11%	0.033%
165	9.830	9.798	9.888	VV	815	20971	0.56%	0.165%
166	9.891	9.888	9.911	VV	148	2096	0.06%	0.016%
167	9.917	9.911	9.966	VV	189	4029	0.11%	0.032%
168	10.028	9.966	10.069	VV	8887	130170	3.45%	1.024%
169	10.091	10.069	10.132	VV	5606	83339	2.21%	0.656%
170	10.159	10.132	10.198	VV	866	21864	0.58%	0.172%
171	10.211	10.198	10.245	VV	381	7288	0.19%	0.057%
172	10.268	10.245	10.311	VV	376	7663	0.20%	0.060%
173	10.350	10.311	10.374	VV	219	4037	0.11%	0.032%
174	10.412	10.374	10.432	VV	327	9057	0.24%	0.071%
175	10.458	10.432	10.486	VV	1158	23787	0.63%	0.187%
176	10.514	10.486	10.589	VV	1608	46587	1.23%	0.367%
177	10.610	10.589	10.652	VV	424	9075	0.24%	0.071%
178	10.672	10.652	10.704	VV	518	10645	0.28%	0.084%
179	10.725	10.704	10.771	VV	630	13984	0.37%	0.110%
180	10.804	10.771	10.837	VV	971	28555	0.76%	0.225%
181	10.855	10.837	10.891	VV	1830	32752	0.87%	0.258%
182	10.904	10.891	10.932	VV	633	10305	0.27%	0.081%
183	10.957	10.932	10.991	VV	3550	54290	1.44%	0.427%
184	11.013	10.991	11.057	VV	1309	34809	0.92%	0.274%
185	11.069	11.057	11.079	VV	655	7736	0.20%	0.061%
186	11.091	11.079	11.112	VV	652	11288	0.30%	0.089%
187	11.125	11.112	11.164	VV	584	12964	0.34%	0.102%
188	11.187	11.164	11.232	VV	661	13965	0.37%	0.110%
189	11.245	11.232	11.262	VV	337	4758	0.13%	0.037%
190	11.302	11.262	11.394	VV	368	14556	0.39%	0.115%
191	11.420	11.394	11.434	VV	303	4647	0.12%	0.037%
192	11.456	11.434	11.516	VV	361	11485	0.30%	0.090%
193	11.539	11.516	11.576	VV	392	6139	0.16%	0.048%
194	11.611	11.576	11.636	VV	534	8305	0.22%	0.065%

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195	11.688	11.636	11.734	VV	509	13411	0.36%	0.106%
196	11.768	11.734	11.786	PV	354	6942	0.18%	0.055%
197	11.791	11.786	11.804	VV	220	2335	0.06%	0.018%
198	11.812	11.804	11.842	VV	161	3641	0.10%	0.029%
199	11.878	11.842	11.889	VV	286	5294	0.14%	0.042%
200	11.896	11.889	11.939	VV	265	6466	0.17%	0.051%
201	11.956	11.939	11.980	VV	273	4527	0.12%	0.036%
202	12.028	11.980	12.056	VV	341	9598	0.25%	0.076%
203	12.092	12.056	12.128	VV	1260	18182	0.48%	0.143%
204	12.174	12.128	12.208	VV	635	14474	0.38%	0.114%
205	12.224	12.208	12.249	VV	460	7099	0.19%	0.056%
206	12.282	12.249	12.301	VV	527	10105	0.27%	0.080%
207	12.334	12.301	12.366	VV	112448	1305023	34.58%	10.270%
208	12.376	12.366	12.430	VV	1332	28417	0.75%	0.224%
209	12.440	12.430	12.457	VV	316	4198	0.11%	0.033%
210	12.491	12.457	12.504	VV	446	9558	0.25%	0.075%
211	12.529	12.504	12.591	VV	10873	159864	4.24%	1.258%
212	12.609	12.591	12.628	VV	1032	16882	0.45%	0.133%
213	12.636	12.628	12.687	VV	656	15103	0.40%	0.119%
214	12.696	12.687	12.719	VV	337	5095	0.13%	0.040%
215	12.735	12.719	12.754	VV	422	7220	0.19%	0.057%
216	12.770	12.754	12.791	VV	434	7110	0.19%	0.056%
217	12.803	12.791	12.822	VV	396	6163	0.16%	0.049%
218	12.856	12.822	12.904	VV	868	24175	0.64%	0.190%
219	12.925	12.904	12.946	VV	770	12114	0.32%	0.095%
220	12.981	12.946	13.032	VV	1241	36278	0.96%	0.285%
221	13.052	13.032	13.114	VV	195	6257	0.17%	0.049%
222	13.122	13.114	13.159	VV	132	1426	0.04%	0.011%
223	13.187	13.159	13.220	VV	168	3641	0.10%	0.029%
224	13.228	13.220	13.270	VV	142	2264	0.06%	0.018%
225	13.295	13.270	13.311	PV	685	10520	0.28%	0.083%
226	13.359	13.311	13.393	VV	277444	3774321	100.00%	29.702%
227	13.414	13.393	13.437	VV	132477	1589857	42.12%	12.511%
228	13.448	13.437	13.526	VV	10658	156362	4.14%	1.230%
229	13.593	13.526	13.671	VV	48323	673974	17.86%	5.304%
230	13.684	13.671	13.703	VV	1041	14364	0.38%	0.113%
231	13.718	13.703	13.736	VV	932	12406	0.33%	0.098%
232	13.769	13.736	13.797	VV	1916	37034	0.98%	0.291%
233	13.821	13.797	13.857	VV	2405	38959	1.03%	0.307%
234	13.890	13.857	13.917	VV	2146	34303	0.91%	0.270%
235	13.927	13.917	13.973	VV	404	8900	0.24%	0.070%
236	13.997	13.973	14.014	VV	285	5059	0.13%	0.040%
237	14.026	14.014	14.044	VV	213	2729	0.07%	0.021%
238	14.077	14.044	14.099	VV	430	6870	0.18%	0.054%
239	14.131	14.099	14.154	PV	1070	18484	0.49%	0.145%
240	14.171	14.154	14.204	VV	1083	19879	0.53%	0.156%
241	14.235	14.204	14.284	VV	1390	32630	0.86%	0.257%
242	14.296	14.284	14.307	VV	134	1396	0.04%	0.011%
243	14.363	14.307	14.386	VV	441	12349	0.33%	0.097%
244	14.415	14.386	14.422	VV	1340	18619	0.49%	0.147%
245	14.431	14.422	14.457	VV	1369	19745	0.52%	0.155%
246	14.477	14.457	14.509	VV	677	17027	0.45%	0.134%

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247	14.526	14.509	14.553	VV	670	14223	0.38%	0.112%
248	14.584	14.553	14.630	VV	1193	24227	0.64%	0.191%
249	14.642	14.630	14.662	VV	268	3977	0.11%	0.031%
250	14.694	14.662	14.721	VV	670	12420	0.33%	0.098%
251	14.750	14.721	14.796	VV	3085	52926	1.40%	0.416%
252	14.813	14.796	14.847	VV	896	18336	0.49%	0.144%
253	14.863	14.847	14.883	VV	639	9470	0.25%	0.075%
254	14.910	14.883	14.934	VV	336	6993	0.19%	0.055%
255	14.974	14.934	14.990	VV	449	4179	0.11%	0.033%
256	15.031	14.990	15.104	VV	151493	2138730	56.67%	16.831%
257	15.122	15.104	15.152	VV	286	4996	0.13%	0.039%
258	15.231	15.152	15.261	VV	1634	37698	1.00%	0.297%
259	15.282	15.261	15.311	VV	691	11024	0.29%	0.087%
260	15.321	15.311	15.359	VV	131	2434	0.06%	0.019%
261	15.370	15.359	15.387	VV	170	1814	0.05%	0.014%
262	15.428	15.387	15.461	VV	391	8132	0.22%	0.064%
263	15.480	15.461	15.492	PV	203	2287	0.06%	0.018%
264	15.522	15.492	15.581	VV	493	15109	0.40%	0.119%
265	15.621	15.581	15.741	VV	3907	101832	2.70%	0.801%
266	15.771	15.741	15.794	VV	995	17903	0.47%	0.141%
267	15.815	15.794	15.864	VV	2052	30959	0.82%	0.244%
268	15.890	15.864	15.921	PV	333	6376	0.17%	0.050%
269	15.929	15.921	15.976	VV	188	3013	0.08%	0.024%
270	16.051	15.976	16.078	PV	327	9034	0.24%	0.071%
271	16.088	16.078	16.102	VV	178	1765	0.05%	0.014%
272	16.146	16.102	16.171	PV	197	5338	0.14%	0.042%
273	16.222	16.171	16.236	VV	227	5559	0.15%	0.044%
274	16.260	16.236	16.282	VV	638	9030	0.24%	0.071%
275	16.319	16.282	16.341	VV	362	7075	0.19%	0.056%
276	16.362	16.341	16.376	VV	155	1867	0.05%	0.015%
277	16.393	16.376	16.414	VV	154	3091	0.08%	0.024%
278	16.432	16.414	16.489	VV	242	7671	0.20%	0.060%
279	16.495	16.489	16.534	VV	134	2882	0.08%	0.023%
280	16.646	16.534	16.682	PV	445	17307	0.46%	0.136%
281	16.707	16.682	16.719	VV	366	6085	0.16%	0.048%
282	16.745	16.719	16.767	VV	681	10971	0.29%	0.086%
283	16.825	16.767	16.861	VV	4960	80460	2.13%	0.633%
284	16.910	16.861	16.944	VV	277	7796	0.21%	0.061%
285	16.973	16.944	16.992	VV	214	3354	0.09%	0.026%
286	17.101	16.992	17.152	VV	441	15033	0.40%	0.118%
287	17.213	17.152	17.234	PV	1584	30016	0.80%	0.236%
288	17.259	17.234	17.311	VV	4432	65761	1.74%	0.518%
289	17.366	17.311	17.383	PV	286	4899	0.13%	0.039%

Sum of corrected areas: 12707463

FG030325.M Fri Mar 07 01:43:30 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-DRUM-614-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-06	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	890 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015454.D	1	03/06/25 08:29	03/06/25 15:52	PB167008

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	24.0	J	11.0	56.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.9		29 - 130	85%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015454.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 15:52
Operator : YP\AJ
Sample : Q1478-06
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-614-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:17:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.031	1840757	16.907 ug/ml
	Target Compounds			

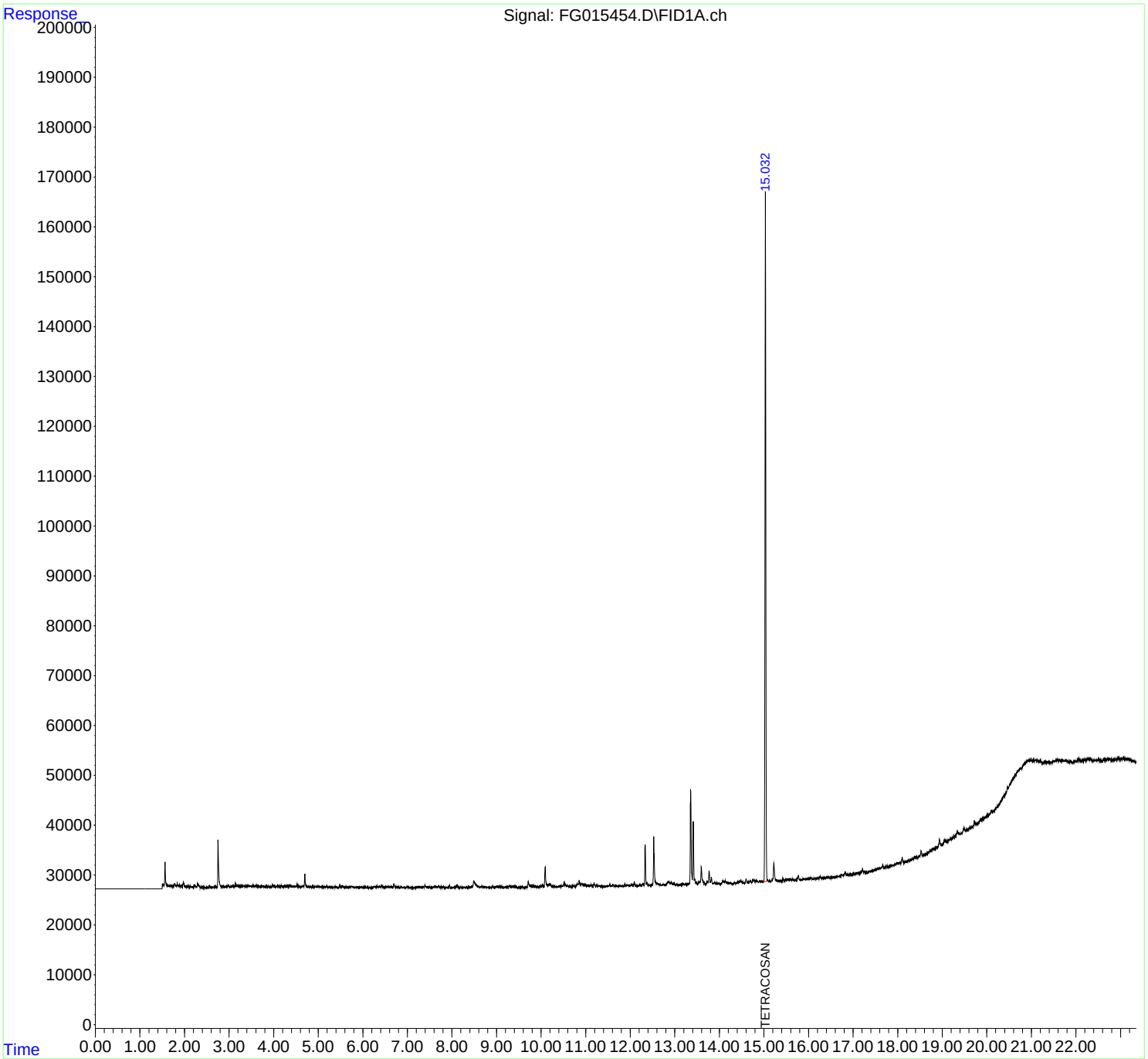
(f)=RT Delta > 1/2 Window (m)=manual int.

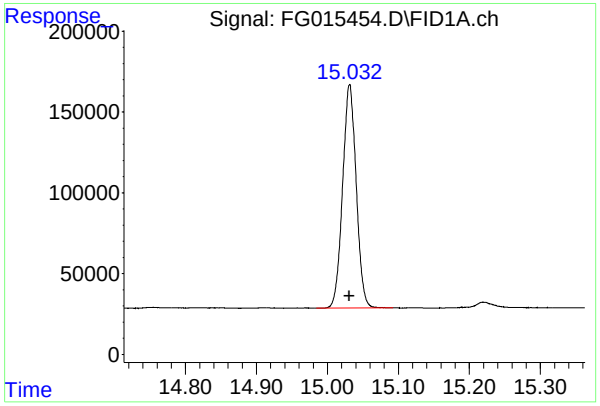
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015454.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 15:52
Operator : YP\AJ
Sample : Q1478-06
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-614-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:17:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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.: 15.031 min
Delta R.T.: 0.000 mi
Response: 1840757
Conc: 16.91 ug/m

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-614-022825

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015454.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 15:52
Sample : Q1478-06
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.308	4.300	4.328	BV	136	625	0.03%	0.014%
2	4.331	4.328	4.339	VV	84	278	0.02%	0.006%
3	4.367	4.339	4.421	PV	209	4925	0.27%	0.113%
4	4.425	4.421	4.438	VV	108	672	0.04%	0.015%
5	4.442	4.438	4.458	VV	113	673	0.04%	0.015%
6	4.462	4.458	4.508	VV	108	1970	0.11%	0.045%
7	4.531	4.508	4.555	VV	457	6304	0.34%	0.145%
8	4.560	4.555	4.583	VV	118	1668	0.09%	0.038%
9	4.591	4.583	4.596	PV	100	461	0.02%	0.011%
10	4.601	4.596	4.608	VV	90	399	0.02%	0.009%
11	4.614	4.608	4.637	VV	132	1379	0.07%	0.032%
12	4.654	4.637	4.670	VV	233	2444	0.13%	0.056%
13	4.674	4.670	4.679	VV	78	322	0.02%	0.007%
14	4.700	4.679	4.743	VV	2657	30349	1.64%	0.697%
15	4.748	4.743	4.753	VV	179	773	0.04%	0.018%
16	4.760	4.753	4.771	VV	124	1076	0.06%	0.025%
17	4.778	4.771	4.793	VV	103	940	0.05%	0.022%
18	4.797	4.793	4.810	VV	102	836	0.05%	0.019%
19	4.823	4.810	4.832	VV	144	1044	0.06%	0.024%
20	4.835	4.832	4.842	VV	111	405	0.02%	0.009%
21	4.852	4.842	4.884	VV	154	2558	0.14%	0.059%
22	4.890	4.884	4.902	VV	196	1172	0.06%	0.027%
23	4.906	4.902	4.910	VV	118	503	0.03%	0.012%
24	4.915	4.910	4.919	VV	176	596	0.03%	0.014%
25	4.931	4.919	4.941	VV	156	1884	0.10%	0.043%
26	4.944	4.941	4.948	VV	219	733	0.04%	0.017%
27	4.952	4.948	4.955	VV	155	630	0.03%	0.014%
28	4.959	4.955	4.972	VV	181	1510	0.08%	0.035%
29	4.976	4.972	4.986	VV	151	1138	0.06%	0.026%
30	4.992	4.986	5.008	VV	218	2004	0.11%	0.046%
31	5.017	5.008	5.030	VV	215	1773	0.10%	0.041%
32	5.043	5.030	5.055	VV	176	1577	0.09%	0.036%
33	5.058	5.055	5.069	VV	137	685	0.04%	0.016%
34	5.076	5.069	5.082	VV	130	655	0.04%	0.015%
35	5.094	5.082	5.115	PV	157	2163	0.12%	0.050%
36	5.119	5.115	5.125	VV	148	672	0.04%	0.015%

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37	5.128	5.125	5.143	VV	108	1173	0.06%	0.027%
38	5.148	5.143	5.162	VV	185	1487	0.08%	0.034%
39	5.189	5.162	5.228	VV	307	6714	0.36%	0.154%
40	5.250	5.228	5.277	VV	151	3103	0.17%	0.071%
41	5.286	5.277	5.291	VV	149	979	0.05%	0.022%
42	5.300	5.291	5.315	VV	138	1494	0.08%	0.034%
43	5.320	5.315	5.334	VV	153	1019	0.06%	0.023%
44	5.360	5.334	5.378	PV	264	3917	0.21%	0.090%
45	5.383	5.378	5.390	VV	177	850	0.05%	0.020%
46	5.395	5.390	5.425	VV	190	2515	0.14%	0.058%
47	5.431	5.425	5.436	VV	138	624	0.03%	0.014%
48	5.444	5.436	5.460	VV	137	1206	0.07%	0.028%
49	5.483	5.460	5.513	VV	581	9499	0.51%	0.218%
50	5.516	5.513	5.522	VV	275	1315	0.07%	0.030%
51	5.536	5.522	5.576	VV	279	6949	0.38%	0.160%
52	5.579	5.576	5.592	VV	176	1422	0.08%	0.033%
53	5.595	5.592	5.600	VV	131	607	0.03%	0.014%
54	5.616	5.600	5.643	VV	210	3513	0.19%	0.081%
55	5.646	5.643	5.660	VV	157	810	0.04%	0.019%
56	5.664	5.660	5.673	VV	166	812	0.04%	0.019%
57	5.678	5.673	5.709	VV	230	3246	0.18%	0.075%
58	5.712	5.709	5.728	VV	197	1442	0.08%	0.033%
59	5.752	5.728	5.772	VV	367	5747	0.31%	0.132%
60	5.777	5.772	5.783	VV	231	1208	0.07%	0.028%
61	5.785	5.783	5.800	VV	221	1637	0.09%	0.038%
62	5.806	5.800	5.816	VV	177	1215	0.07%	0.028%
63	5.826	5.816	5.832	VV	171	1383	0.07%	0.032%
64	5.838	5.832	5.857	VV	207	2520	0.14%	0.058%
65	5.870	5.857	5.889	VV	242	2816	0.15%	0.065%
66	5.894	5.889	5.902	VV	106	525	0.03%	0.012%
67	5.907	5.902	5.915	PV	114	544	0.03%	0.012%
68	5.939	5.915	5.945	VV	158	1987	0.11%	0.046%
69	5.953	5.945	5.964	VV	178	1546	0.08%	0.036%
70	5.971	5.964	5.995	VV	191	2150	0.12%	0.049%
71	6.011	5.995	6.019	VV	137	1429	0.08%	0.033%
72	6.054	6.019	6.092	VV	402	7595	0.41%	0.174%
73	6.095	6.092	6.105	VV	127	798	0.04%	0.018%
74	6.113	6.105	6.131	VV	134	1337	0.07%	0.031%
75	6.145	6.131	6.173	VV	138	2431	0.13%	0.056%
76	6.198	6.173	6.205	VV	166	1761	0.10%	0.040%
77	6.225	6.205	6.232	VV	151	1858	0.10%	0.043%
78	6.250	6.232	6.256	VV	340	3451	0.19%	0.079%
79	6.266	6.256	6.295	VV	279	5119	0.28%	0.118%
80	6.317	6.295	6.342	VV	351	6071	0.33%	0.139%
81	6.352	6.342	6.357	VV	268	1935	0.10%	0.044%
82	6.362	6.357	6.366	VV	319	1454	0.08%	0.033%
83	6.371	6.366	6.386	VV	270	2789	0.15%	0.064%
84	6.397	6.386	6.411	VV	362	4268	0.23%	0.098%
85	6.425	6.411	6.459	VV	499	9003	0.49%	0.207%
86	6.461	6.459	6.471	VV	208	1059	0.06%	0.024%
87	6.502	6.471	6.509	VV	220	3828	0.21%	0.088%
88	6.521	6.509	6.537	VV	236	2988	0.16%	0.069%
89	6.561	6.537	6.592	VV	275	6950	0.38%	0.160%

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90	6.602	6.592	6.630	VV	286	4293	0.23%	0.099%
91	6.634	6.630	6.651	VV	241	2261	0.12%	0.052%
92	6.656	6.651	6.662	VV	172	816	0.04%	0.019%
93	6.673	6.662	6.679	VV	186	1538	0.08%	0.035%
94	6.697	6.679	6.760	VV	830	15310	0.83%	0.352%
95	6.781	6.760	6.805	VV	178	3573	0.19%	0.082%
96	6.814	6.805	6.819	VV	174	1027	0.06%	0.024%
97	6.824	6.819	6.828	VV	157	526	0.03%	0.012%
98	6.831	6.828	6.847	VV	148	1414	0.08%	0.032%
99	6.866	6.847	6.898	VV	201	3908	0.21%	0.090%
100	6.912	6.898	6.919	VV	130	1087	0.06%	0.025%
101	6.926	6.919	6.930	VV	148	849	0.05%	0.020%
102	6.935	6.930	6.955	VV	185	1588	0.09%	0.036%
103	6.960	6.955	6.970	VV	121	750	0.04%	0.017%
104	6.991	6.970	7.034	VV	340	5818	0.31%	0.134%
105	7.037	7.034	7.049	VV	100	553	0.03%	0.013%
106	7.054	7.049	7.070	VV	76	747	0.04%	0.017%
107	7.073	7.070	7.105	VV	66	1118	0.06%	0.026%
108	7.112	7.105	7.125	VV	156	843	0.05%	0.019%
109	7.130	7.125	7.138	VV	97	479	0.03%	0.011%
110	7.144	7.138	7.151	VV	97	412	0.02%	0.009%
111	7.158	7.151	7.180	VV	55	859	0.05%	0.020%
112	7.193	7.180	7.200	VV	146	830	0.04%	0.019%
113	7.215	7.200	7.227	VV	203	2393	0.13%	0.055%
114	7.231	7.227	7.237	VV	213	1199	0.06%	0.028%
115	7.241	7.237	7.265	VV	235	3106	0.17%	0.071%
116	7.290	7.265	7.296	VV	189	2993	0.16%	0.069%
117	7.300	7.296	7.320	VV	188	2241	0.12%	0.051%
118	7.338	7.320	7.342	VV	186	2066	0.11%	0.047%
119	7.355	7.342	7.377	VV	295	4113	0.22%	0.094%
120	7.392	7.377	7.429	VV	540	8741	0.47%	0.201%
121	7.432	7.429	7.452	VV	221	2192	0.12%	0.050%
122	7.457	7.452	7.469	VV	153	1005	0.05%	0.023%
123	7.492	7.469	7.510	VV	221	3085	0.17%	0.071%
124	7.516	7.510	7.521	VV	114	506	0.03%	0.012%
125	7.535	7.521	7.552	VV	185	2355	0.13%	0.054%
126	7.582	7.552	7.600	VV	204	4746	0.26%	0.109%
127	7.607	7.600	7.617	VV	238	1934	0.10%	0.044%
128	7.624	7.617	7.628	VV	235	1384	0.07%	0.032%
129	7.634	7.628	7.638	VV	260	1313	0.07%	0.030%
130	7.644	7.638	7.661	VV	283	3155	0.17%	0.072%
131	7.665	7.661	7.680	VV	223	2329	0.13%	0.054%
132	7.698	7.680	7.739	VV	378	6503	0.35%	0.149%
133	7.760	7.739	7.777	VV	210	3256	0.18%	0.075%
134	7.792	7.777	7.806	VV	189	2159	0.12%	0.050%
135	7.815	7.806	7.825	VV	178	1380	0.07%	0.032%
136	7.831	7.825	7.837	VV	126	613	0.03%	0.014%
137	7.863	7.837	7.886	VV	138	2107	0.11%	0.048%
138	7.899	7.886	7.904	VV	73	596	0.03%	0.014%
139	7.907	7.904	7.919	VV	63	381	0.02%	0.009%
140	7.945	7.919	7.998	VV	495	7316	0.39%	0.168%
141	8.017	7.998	8.029	PV	89	906	0.05%	0.021%

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142	8.034	8.029	8.047	VV	96	778	0.04%	0.018%
143	8.055	8.047	8.068	VV	137	965	0.05%	0.022%
144	8.092	8.068	8.103	VV	371	5186	0.28%	0.119%
145	8.118	8.103	8.152	VV	679	9362	0.51%	0.215%
146	8.160	8.152	8.175	VV	164	1660	0.09%	0.038%
147	8.180	8.175	8.184	VV	121	487	0.03%	0.011%
148	8.187	8.184	8.218	VV	99	1227	0.07%	0.028%
149	8.223	8.218	8.228	VV	75	325	0.02%	0.007%
150	8.234	8.228	8.253	VV	132	857	0.05%	0.020%
151	8.275	8.253	8.299	VV	246	3052	0.16%	0.070%
152	8.315	8.299	8.326	PV	118	1153	0.06%	0.026%
153	8.329	8.326	8.340	VV	86	610	0.03%	0.014%
154	8.371	8.340	8.382	VV	201	2794	0.15%	0.064%
155	8.385	8.382	8.392	VV	158	739	0.04%	0.017%
156	8.396	8.392	8.401	VV	178	621	0.03%	0.014%
157	8.442	8.401	8.468	VV	400	8941	0.48%	0.205%
158	8.492	8.468	8.620	VV	1391	52749	2.85%	1.212%
159	8.630	8.620	8.636	VV	167	1252	0.07%	0.029%
160	8.656	8.636	8.664	VV	264	3162	0.17%	0.073%
161	8.686	8.664	8.707	VV	289	5703	0.31%	0.131%
162	8.714	8.707	8.757	VV	250	4794	0.26%	0.110%
163	8.760	8.757	8.777	VV	111	1308	0.07%	0.030%
164	8.790	8.777	8.815	VV	178	2613	0.14%	0.060%
165	8.819	8.815	8.827	VV	117	469	0.03%	0.011%
166	8.834	8.827	8.884	VV	168	2391	0.13%	0.055%
167	8.910	8.884	8.949	VV	447	6736	0.36%	0.155%
168	8.968	8.949	9.005	VV	226	5339	0.29%	0.123%
169	9.027	9.005	9.072	VV	301	9287	0.50%	0.213%
170	9.081	9.072	9.133	VV	270	6544	0.35%	0.150%
171	9.201	9.133	9.230	VV	192	6898	0.37%	0.158%
172	9.245	9.230	9.257	VV	194	2319	0.13%	0.053%
173	9.284	9.257	9.348	VV	426	13377	0.72%	0.307%
174	9.378	9.348	9.467	VV	393	15049	0.81%	0.346%
175	9.477	9.467	9.488	VV	128	1211	0.07%	0.028%
176	9.494	9.488	9.505	VV	134	948	0.05%	0.022%
177	9.514	9.505	9.544	VV	147	2563	0.14%	0.059%
178	9.563	9.544	9.632	VV	245	7300	0.39%	0.168%
179	9.678	9.632	9.692	PV	197	4143	0.22%	0.095%
180	9.713	9.692	9.749	VV	1286	23339	1.26%	0.536%
181	9.759	9.749	9.817	VV	472	12878	0.70%	0.296%
182	9.839	9.817	9.898	VV	358	11863	0.64%	0.273%
183	9.913	9.898	9.967	VV	240	6283	0.34%	0.144%
184	9.989	9.967	10.007	VV	339	5902	0.32%	0.136%
185	10.031	10.007	10.064	VV	596	11247	0.61%	0.258%
186	10.093	10.064	10.143	VV	4140	67264	3.63%	1.545%
187	10.161	10.143	10.177	VV	606	10328	0.56%	0.237%
188	10.196	10.177	10.253	VV	839	21127	1.14%	0.485%
189	10.269	10.253	10.311	VV	327	7780	0.42%	0.179%
190	10.323	10.311	10.334	VV	186	1947	0.11%	0.045%
191	10.349	10.334	10.384	VV	168	3751	0.20%	0.086%
192	10.407	10.384	10.445	VV	278	8464	0.46%	0.194%
193	10.466	10.445	10.495	VV	391	8120	0.44%	0.187%
194	10.518	10.495	10.597	VV	1137	30375	1.64%	0.698%

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195	10.606	10.597	10.663	VV	282	7739	0.42%	0.178%
196	10.686	10.663	10.712	VV	234	4926	0.27%	0.113%
197	10.729	10.712	10.740	VV	323	4499	0.24%	0.103%
198	10.748	10.740	10.770	VV	304	3828	0.21%	0.088%
199	10.813	10.770	10.823	VV	667	12564	0.68%	0.289%
200	10.855	10.823	10.892	VV	1314	30743	1.66%	0.706%
201	10.920	10.892	10.945	VV	804	18592	1.00%	0.427%
202	10.967	10.945	10.993	VV	671	13161	0.71%	0.302%
203	11.004	10.993	11.022	VV	408	5665	0.31%	0.130%
204	11.031	11.022	11.040	VV	353	3361	0.18%	0.077%
205	11.068	11.040	11.080	VV	431	7481	0.40%	0.172%
206	11.094	11.080	11.104	VV	362	4232	0.23%	0.097%
207	11.126	11.104	11.164	VV	432	9552	0.52%	0.219%
208	11.187	11.164	11.228	VV	668	15146	0.82%	0.348%
209	11.239	11.228	11.260	VV	316	4778	0.26%	0.110%
210	11.283	11.260	11.346	VV	316	10655	0.58%	0.245%
211	11.358	11.346	11.379	VV	161	2172	0.12%	0.050%
212	11.386	11.379	11.398	VV	124	985	0.05%	0.023%
213	11.414	11.398	11.449	PV	181	4057	0.22%	0.093%
214	11.464	11.449	11.514	VV	218	5000	0.27%	0.115%
215	11.540	11.514	11.574	VV	388	8394	0.45%	0.193%
216	11.611	11.574	11.651	VV	479	10270	0.55%	0.236%
217	11.659	11.651	11.672	VV	151	1490	0.08%	0.034%
218	11.692	11.672	11.749	VV	292	6827	0.37%	0.157%
219	11.765	11.749	11.787	VV	249	3098	0.17%	0.071%
220	11.805	11.787	11.823	VV	156	2729	0.15%	0.063%
221	11.878	11.823	11.907	VV	363	9911	0.54%	0.228%
222	11.921	11.907	11.944	VV	293	5025	0.27%	0.115%
223	11.957	11.944	11.979	VV	220	3689	0.20%	0.085%
224	12.026	11.979	12.060	VV	365	11014	0.59%	0.253%
225	12.092	12.060	12.144	VV	883	14899	0.80%	0.342%
226	12.217	12.144	12.242	VV	398	9312	0.50%	0.214%
227	12.283	12.242	12.300	VV	489	8601	0.46%	0.198%
228	12.334	12.300	12.360	VV	8367	100306	5.42%	2.305%
229	12.372	12.360	12.434	VV	618	11689	0.63%	0.269%
230	12.475	12.434	12.485	VV	199	4034	0.22%	0.093%
231	12.528	12.485	12.600	VV	9697	148220	8.00%	3.405%
232	12.609	12.600	12.717	VV	546	18068	0.98%	0.415%
233	12.735	12.717	12.804	VV	270	9206	0.50%	0.211%
234	12.864	12.804	12.904	VV	811	31240	1.69%	0.718%
235	12.924	12.904	12.959	VV	747	15127	0.82%	0.348%
236	12.986	12.959	13.034	VV	502	11062	0.60%	0.254%
237	13.050	13.034	13.090	VV	234	4075	0.22%	0.094%
238	13.099	13.090	13.117	VV	93	1221	0.07%	0.028%
239	13.127	13.117	13.140	VV	96	1030	0.06%	0.024%
240	13.179	13.140	13.229	PV	352	9705	0.52%	0.223%
241	13.237	13.229	13.269	VV	191	3016	0.16%	0.069%
242	13.305	13.269	13.325	VV	276	6412	0.35%	0.147%
243	13.355	13.325	13.390	VV	18917	258580	13.96%	5.941%
244	13.413	13.390	13.437	VV	12716	158459	8.55%	3.641%
245	13.447	13.437	13.472	VV	1236	16617	0.90%	0.382%
246	13.486	13.472	13.520	VV	485	9103	0.49%	0.209%

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247	13.542	13.520	13.552	VV	614	8478	0.46%	0.195%
248	13.594	13.552	13.700	VV	3505	78641	4.25%	1.807%
249	13.724	13.700	13.742	VV	583	10948	0.59%	0.252%
250	13.768	13.742	13.800	VV	2792	45489	2.46%	1.045%
251	13.821	13.800	13.859	VV	1431	21824	1.18%	0.501%
252	13.889	13.859	13.911	VV	372	8003	0.43%	0.184%
253	13.938	13.911	13.970	VV	332	7760	0.42%	0.178%
254	13.986	13.970	14.016	VV	218	4324	0.23%	0.099%
255	14.079	14.016	14.097	VV	852	16052	0.87%	0.369%
256	14.128	14.097	14.157	VV	720	16640	0.90%	0.382%
257	14.176	14.157	14.207	VV	466	9139	0.49%	0.210%
258	14.234	14.207	14.282	VV	319	8635	0.47%	0.198%
259	14.296	14.282	14.307	PV	74	776	0.04%	0.018%
260	14.335	14.307	14.357	VV	231	4420	0.24%	0.102%
261	14.363	14.357	14.386	VV	187	3051	0.16%	0.070%
262	14.408	14.386	14.427	VV	410	6930	0.37%	0.159%
263	14.435	14.427	14.452	VV	352	4400	0.24%	0.101%
264	14.479	14.452	14.513	VV	610	14083	0.76%	0.324%
265	14.523	14.513	14.565	VV	231	4727	0.26%	0.109%
266	14.598	14.565	14.630	VV	826	14528	0.78%	0.334%
267	14.648	14.630	14.661	VV	269	3472	0.19%	0.080%
268	14.693	14.661	14.729	VV	614	12341	0.67%	0.284%
269	14.753	14.729	14.777	VV	701	13381	0.72%	0.307%
270	14.779	14.777	14.799	VV	463	4991	0.27%	0.115%
271	14.819	14.799	14.842	VV	392	9231	0.50%	0.212%
272	14.849	14.842	14.876	VV	370	4815	0.26%	0.111%
273	14.913	14.876	14.939	VV	366	7636	0.41%	0.175%
274	14.970	14.939	14.992	VV	221	5366	0.29%	0.123%
275	15.031	14.992	15.107	VV	139110	1852314	100.00%	42.556%
276	15.122	15.107	15.152	VV	271	4094	0.22%	0.094%
277	15.220	15.152	15.328	VV	3625	82257	4.44%	1.890%
278	15.341	15.328	15.355	VV	172	2064	0.11%	0.047%
279	15.367	15.355	15.401	VV	161	2730	0.15%	0.063%
280	15.427	15.401	15.453	VV	671	8502	0.46%	0.195%
281	15.493	15.453	15.506	VV	325	6770	0.37%	0.156%
282	15.553	15.506	15.577	VV	424	11930	0.64%	0.274%
283	15.590	15.577	15.619	VV	316	5617	0.30%	0.129%
284	15.657	15.619	15.693	VV	255	5980	0.32%	0.137%
285	15.716	15.693	15.729	VV	218	2255	0.12%	0.052%
286	15.772	15.729	15.799	VV	1004	17694	0.96%	0.407%
287	15.812	15.799	15.843	VV	238	3432	0.19%	0.079%
288	15.887	15.843	15.919	PV	289	7064	0.38%	0.162%
289	15.933	15.919	15.975	VV	226	4017	0.22%	0.092%
290	15.997	15.975	16.005	VV	200	2733	0.15%	0.063%
291	16.049	16.005	16.096	VV	347	10648	0.57%	0.245%
292	16.119	16.096	16.132	VV	160	1730	0.09%	0.040%
293	16.142	16.132	16.155	VV	155	1219	0.07%	0.028%
294	16.183	16.155	16.190	VV	132	2084	0.11%	0.048%
295	16.217	16.190	16.230	VV	198	3482	0.19%	0.080%
296	16.261	16.230	16.289	VV	467	8075	0.44%	0.186%
297	16.298	16.289	16.312	VV	101	817	0.04%	0.019%
298	16.394	16.312	16.419	VV	202	6327	0.34%	0.145%
299	16.436	16.419	16.479	VV	191	3964	0.21%	0.091%

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300	16.508	16.479	16.534	VV	111	1345	0.07%	0.031%
301	16.622	16.534	16.631	PV	149	4495	0.24%	0.103%
302	16.647	16.631	16.668	VV	160	2589	0.14%	0.059%
303	16.700	16.668	16.720	VV	232	4478	0.24%	0.103%
304	16.745	16.720	16.770	PV	507	8322	0.45%	0.191%
305	16.824	16.770	16.869	VV	748	19622	1.06%	0.451%
306	16.905	16.869	16.922	VV	215	4584	0.25%	0.105%
307	16.944	16.922	16.956	VV	145	2293	0.12%	0.053%
308	16.964	16.956	16.973	VV	124	1144	0.06%	0.026%
309	17.041	16.973	17.069	VV	175	7030	0.38%	0.162%
310	17.106	17.069	17.121	VV	230	4371	0.24%	0.100%
311	17.212	17.121	17.244	VV	798	20222	1.09%	0.465%
312	17.254	17.244	17.317	VV	327	5421	0.29%	0.125%
313	17.370	17.317	17.389	PV	150	3120	0.17%	0.072%

Sum of corrected areas: 4352627

FG030325.M Fri Mar 07 01:44:43 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-DRUM-612-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-08	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	900 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015455.D	1	03/06/25 08:29	03/06/25 16:22	PB167008

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	65.0		11.0	56.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	19.2		29 - 130	96%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015455.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 16:22
Operator : YP\AJ
Sample : Q1478-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-612-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:18:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.032	2088998	19.187 ug/ml
Target Compounds			

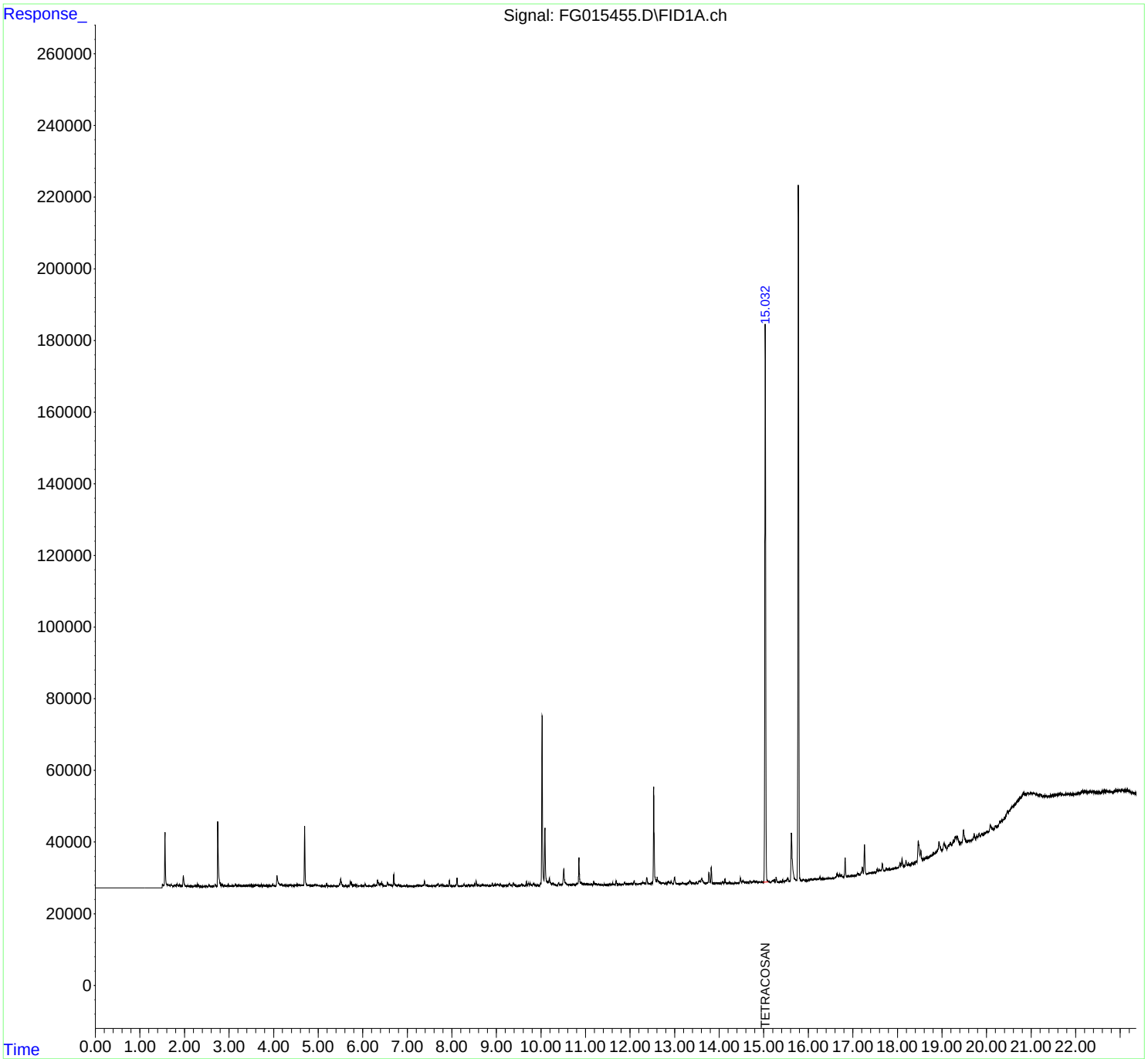
(f)=RT Delta > 1/2 Window (m)=manual int.

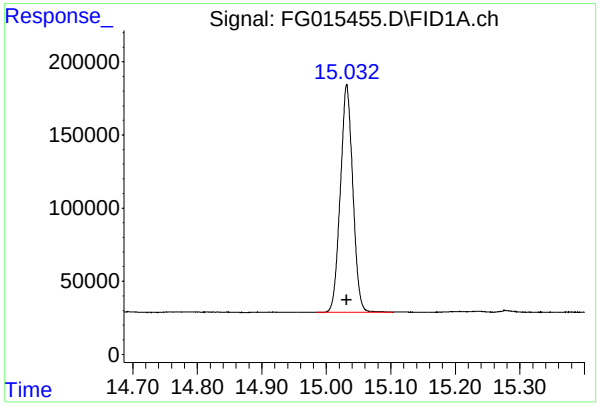
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015455.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 16:22
Operator : YP\AJ
Sample : Q1478-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-612-022825

Integration File: autoint1.e
Quant Time: Mar 07 01:18:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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.: 15.032 min
Delta R.T.: 0.000 mi
Response: 2088998
Conc: 19.19 ug/m

Instrument :
FID_G
ClientSampleId :
IDW-AQ-DRUM-612-022825

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015455.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 16:22
Sample : Q1478-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.308	4.300	4.324	BV	83	440	0.02%	0.005%
2	4.331	4.324	4.350	PV	96	1163	0.05%	0.013%
3	4.364	4.350	4.402	VV	237	5415	0.22%	0.061%
4	4.411	4.402	4.434	VV	164	1902	0.08%	0.021%
5	4.438	4.434	4.449	VV	95	615	0.03%	0.007%
6	4.461	4.449	4.468	PV	95	735	0.03%	0.008%
7	4.472	4.468	4.476	VV	84	313	0.01%	0.004%
8	4.489	4.476	4.507	VV	237	2573	0.10%	0.029%
9	4.529	4.507	4.549	VV	507	6357	0.26%	0.071%
10	4.567	4.549	4.571	VV	341	3084	0.13%	0.034%
11	4.575	4.571	4.592	VV	323	3761	0.15%	0.042%
12	4.596	4.592	4.607	VV	319	2587	0.11%	0.029%
13	4.612	4.607	4.623	VV	269	2171	0.09%	0.024%
14	4.624	4.623	4.629	VV	238	721	0.03%	0.008%
15	4.649	4.629	4.677	VV	312	6937	0.28%	0.078%
16	4.697	4.677	4.773	VV	16687	187881	7.66%	2.101%
17	4.778	4.773	4.786	VV	297	1869	0.08%	0.021%
18	4.792	4.786	4.808	VV	275	2737	0.11%	0.031%
19	4.812	4.808	4.817	VV	187	843	0.03%	0.009%
20	4.822	4.817	4.831	VV	206	1172	0.05%	0.013%
21	4.842	4.831	4.868	VV	236	3565	0.15%	0.040%
22	4.870	4.868	4.879	VV	167	884	0.04%	0.010%
23	4.896	4.879	4.901	VV	191	2024	0.08%	0.023%
24	4.914	4.901	4.926	VV	433	5040	0.21%	0.056%
25	4.930	4.926	4.948	VV	381	4592	0.19%	0.051%
26	4.960	4.948	4.999	VV	348	7207	0.29%	0.081%
27	5.009	4.999	5.018	VV	231	2163	0.09%	0.024%
28	5.026	5.018	5.038	VV	170	1710	0.07%	0.019%
29	5.040	5.038	5.066	VV	161	1817	0.07%	0.020%
30	5.072	5.066	5.102	VV	200	2285	0.09%	0.026%
31	5.113	5.102	5.130	VV	117	1193	0.05%	0.013%
32	5.140	5.130	5.150	PV	139	956	0.04%	0.011%
33	5.159	5.150	5.165	VV	139	861	0.04%	0.010%
34	5.191	5.165	5.238	VV	916	14272	0.58%	0.160%
35	5.242	5.238	5.265	VV	176	1820	0.07%	0.020%
36	5.278	5.265	5.300	VV	185	2189	0.09%	0.024%

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37	5.307	5.300	5.335	PV	144	1474	0.06%	0.016%
38	5.354	5.335	5.373	VV	364	4242	0.17%	0.047%
39	5.375	5.373	5.393	VV	140	1192	0.05%	0.013%
40	5.399	5.393	5.434	VV	136	1593	0.06%	0.018%
41	5.448	5.434	5.459	PV	114	1171	0.05%	0.013%
42	5.481	5.459	5.491	VV	655	7497	0.31%	0.084%
43	5.505	5.491	5.582	VV	2120	41438	1.69%	0.463%
44	5.609	5.582	5.631	VV	305	5172	0.21%	0.058%
45	5.635	5.631	5.651	VV	160	968	0.04%	0.011%
46	5.676	5.651	5.683	VV	152	1696	0.07%	0.019%
47	5.722	5.683	5.743	VV	1228	22051	0.90%	0.247%
48	5.750	5.743	5.793	VV	827	13449	0.55%	0.150%
49	5.797	5.793	5.807	VV	297	2241	0.09%	0.025%
50	5.839	5.807	5.856	VV	362	8075	0.33%	0.090%
51	5.867	5.856	5.890	VV	475	5993	0.24%	0.067%
52	5.894	5.890	5.902	VV	166	831	0.03%	0.009%
53	5.904	5.902	5.907	VV	132	408	0.02%	0.005%
54	5.916	5.907	5.924	VV	198	1555	0.06%	0.017%
55	5.936	5.924	5.952	VV	233	2874	0.12%	0.032%
56	5.967	5.952	5.991	VV	341	4963	0.20%	0.055%
57	6.003	5.991	6.029	VV	276	4323	0.18%	0.048%
58	6.056	6.029	6.087	VV	798	12099	0.49%	0.135%
59	6.090	6.087	6.095	VV	112	482	0.02%	0.005%
60	6.124	6.095	6.133	VV	171	3123	0.13%	0.035%
61	6.146	6.133	6.164	VV	248	3303	0.13%	0.037%
62	6.169	6.164	6.177	VV	98	523	0.02%	0.006%
63	6.191	6.177	6.199	VV	82	736	0.03%	0.008%
64	6.223	6.199	6.230	VV	191	1877	0.08%	0.021%
65	6.247	6.230	6.275	VV	476	8467	0.35%	0.095%
66	6.309	6.275	6.314	VV	321	5495	0.22%	0.061%
67	6.332	6.314	6.381	VV	1796	36876	1.50%	0.412%
68	6.400	6.381	6.408	VV	774	9707	0.40%	0.109%
69	6.425	6.408	6.464	VV	1138	19445	0.79%	0.217%
70	6.474	6.464	6.493	VV	284	4113	0.17%	0.046%
71	6.499	6.493	6.524	VV	267	3923	0.16%	0.044%
72	6.527	6.524	6.533	VV	213	814	0.03%	0.009%
73	6.557	6.533	6.587	VV	1156	21565	0.88%	0.241%
74	6.594	6.587	6.622	VV	550	8649	0.35%	0.097%
75	6.638	6.622	6.655	VV	433	6235	0.25%	0.070%
76	6.660	6.655	6.677	VV	238	2328	0.09%	0.026%
77	6.697	6.677	6.754	VV	3404	46133	1.88%	0.516%
78	6.757	6.754	6.767	VV	237	1731	0.07%	0.019%
79	6.772	6.767	6.778	VV	248	1342	0.05%	0.015%
80	6.804	6.778	6.850	VV	477	13252	0.54%	0.148%
81	6.854	6.850	6.858	VV	214	874	0.04%	0.010%
82	6.864	6.858	6.868	VV	221	1045	0.04%	0.012%
83	6.873	6.868	6.908	VV	194	2698	0.11%	0.030%
84	6.932	6.908	6.965	VV	239	4394	0.18%	0.049%
85	6.991	6.965	7.019	VV	359	5759	0.23%	0.064%
86	7.023	7.019	7.055	PV	70	1523	0.06%	0.017%
87	7.069	7.055	7.074	VV	142	1130	0.05%	0.013%
88	7.078	7.074	7.081	VV	66	239	0.01%	0.003%
89	7.084	7.081	7.088	VV	81	260	0.01%	0.003%

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90	7.096	7.088	7.160	VV	125	1563	0.06%	0.017%
91	7.210	7.160	7.223	VV	307	5410	0.22%	0.060%
92	7.227	7.223	7.264	VV	291	5766	0.24%	0.064%
93	7.290	7.264	7.313	VV	284	5820	0.24%	0.065%
94	7.325	7.313	7.341	VV	237	2827	0.12%	0.032%
95	7.356	7.341	7.372	VV	393	5620	0.23%	0.063%
96	7.388	7.372	7.423	VV	1589	22975	0.94%	0.257%
97	7.429	7.423	7.478	VV	470	7442	0.30%	0.083%
98	7.493	7.478	7.509	VV	283	2834	0.12%	0.032%
99	7.514	7.509	7.519	VV	93	584	0.02%	0.007%
100	7.534	7.519	7.551	VV	177	2163	0.09%	0.024%
101	7.559	7.551	7.579	VV	178	2103	0.09%	0.024%
102	7.582	7.579	7.587	VV	164	679	0.03%	0.008%
103	7.607	7.587	7.629	VV	269	4485	0.18%	0.050%
104	7.662	7.629	7.672	VV	401	6345	0.26%	0.071%
105	7.691	7.672	7.718	VV	696	11881	0.48%	0.133%
106	7.724	7.718	7.727	VV	141	637	0.03%	0.007%
107	7.730	7.727	7.739	VV	192	972	0.04%	0.011%
108	7.757	7.739	7.790	VV	547	9583	0.39%	0.107%
109	7.806	7.790	7.854	VV	345	6360	0.26%	0.071%
110	7.870	7.854	7.876	VV	209	1851	0.08%	0.021%
111	7.902	7.876	7.920	VV	200	3182	0.13%	0.036%
112	7.947	7.920	8.004	VV	1724	21464	0.88%	0.240%
113	8.041	8.004	8.069	PV	183	4102	0.17%	0.046%
114	8.118	8.069	8.150	VV	2363	33695	1.37%	0.377%
115	8.157	8.150	8.183	VV	151	2270	0.09%	0.025%
116	8.191	8.183	8.220	VV	162	1896	0.08%	0.021%
117	8.224	8.220	8.229	VV	69	317	0.01%	0.004%
118	8.240	8.229	8.255	VV	132	1608	0.07%	0.018%
119	8.272	8.255	8.312	VV	695	9321	0.38%	0.104%
120	8.318	8.312	8.329	VV	173	1471	0.06%	0.016%
121	8.334	8.329	8.353	VV	145	1398	0.06%	0.016%
122	8.375	8.353	8.401	VV	385	4653	0.19%	0.052%
123	8.417	8.401	8.422	VV	129	1457	0.06%	0.016%
124	8.433	8.422	8.439	VV	274	2012	0.08%	0.022%
125	8.447	8.439	8.458	VV	270	2804	0.11%	0.031%
126	8.464	8.458	8.469	VV	281	1587	0.06%	0.018%
127	8.476	8.469	8.482	VV	284	1951	0.08%	0.022%
128	8.486	8.482	8.497	VV	306	2392	0.10%	0.027%
129	8.514	8.497	8.527	VV	710	8828	0.36%	0.099%
130	8.547	8.527	8.572	VV	1518	20181	0.82%	0.226%
131	8.575	8.572	8.604	VV	338	4053	0.17%	0.045%
132	8.612	8.604	8.629	VV	304	2776	0.11%	0.031%
133	8.657	8.629	8.677	VV	302	6395	0.26%	0.072%
134	8.691	8.677	8.719	VV	382	6756	0.28%	0.076%
135	8.739	8.719	8.767	VV	209	5086	0.21%	0.057%
136	8.781	8.767	8.820	VV	284	6209	0.25%	0.069%
137	8.827	8.820	8.863	VV	116	1864	0.08%	0.021%
138	8.878	8.863	8.884	VV	156	1172	0.05%	0.013%
139	8.909	8.884	8.946	VV	894	12049	0.49%	0.135%
140	8.974	8.946	8.991	VV	435	8078	0.33%	0.090%
141	9.007	8.991	9.014	VV	357	4279	0.17%	0.048%

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142	9.024	9.014	9.074	VV	494	12567	0.51%	0.141%
143	9.088	9.074	9.124	VV	542	8451	0.34%	0.094%
144	9.142	9.124	9.164	VV	177	2190	0.09%	0.024%
145	9.190	9.164	9.195	VV	258	3085	0.13%	0.034%
146	9.201	9.195	9.210	VV	225	1718	0.07%	0.019%
147	9.214	9.210	9.229	VV	219	1854	0.08%	0.021%
148	9.242	9.229	9.262	VV	295	4005	0.16%	0.045%
149	9.291	9.262	9.323	VV	620	13850	0.56%	0.155%
150	9.326	9.323	9.335	VV	168	1018	0.04%	0.011%
151	9.342	9.335	9.354	VV	182	1469	0.06%	0.016%
152	9.378	9.354	9.402	VV	874	13565	0.55%	0.152%
153	9.409	9.402	9.454	VV	363	5764	0.24%	0.064%
154	9.462	9.454	9.502	VV	123	1919	0.08%	0.021%
155	9.514	9.502	9.531	VV	180	2097	0.09%	0.023%
156	9.567	9.531	9.602	VV	488	10316	0.42%	0.115%
157	9.609	9.602	9.636	VV	264	2364	0.10%	0.026%
158	9.675	9.636	9.696	VV	1251	16502	0.67%	0.185%
159	9.714	9.696	9.742	VV	710	12983	0.53%	0.145%
160	9.759	9.742	9.802	VV	814	14894	0.61%	0.167%
161	9.835	9.802	9.879	VV	681	16700	0.68%	0.187%
162	9.884	9.879	9.898	VV	216	2053	0.08%	0.023%
163	9.913	9.898	9.942	VV	213	3865	0.16%	0.043%
164	9.943	9.942	9.966	VV	142	1188	0.05%	0.013%
165	9.992	9.966	10.004	PV	846	9836	0.40%	0.110%
166	10.027	10.004	10.068	VV	47291	564661	23.03%	6.313%
167	10.091	10.068	10.144	VV	16169	233089	9.51%	2.606%
168	10.160	10.144	10.175	VV	1323	19549	0.80%	0.219%
169	10.191	10.175	10.245	VV	2252	46903	1.91%	0.524%
170	10.266	10.245	10.300	VV	770	16926	0.69%	0.189%
171	10.305	10.300	10.345	VV	307	5858	0.24%	0.065%
172	10.349	10.345	10.375	VV	171	2352	0.10%	0.026%
173	10.395	10.375	10.424	VV	836	14189	0.58%	0.159%
174	10.430	10.424	10.435	VV	295	1909	0.08%	0.021%
175	10.439	10.435	10.451	VV	341	2655	0.11%	0.030%
176	10.458	10.451	10.474	VV	311	3913	0.16%	0.044%
177	10.513	10.474	10.573	VV	4669	91336	3.72%	1.021%
178	10.578	10.573	10.600	VV	437	5979	0.24%	0.067%
179	10.604	10.600	10.626	VV	366	4710	0.19%	0.053%
180	10.631	10.626	10.639	VV	320	1973	0.08%	0.022%
181	10.644	10.639	10.658	VV	258	2162	0.09%	0.024%
182	10.684	10.658	10.705	VV	406	7096	0.29%	0.079%
183	10.725	10.705	10.737	VV	343	5228	0.21%	0.058%
184	10.748	10.737	10.777	VV	408	6091	0.25%	0.068%
185	10.785	10.777	10.792	VV	319	2208	0.09%	0.025%
186	10.810	10.792	10.824	VV	631	9079	0.37%	0.102%
187	10.853	10.824	10.893	VV	7781	107616	4.39%	1.203%
188	10.903	10.893	10.942	VV	905	16239	0.66%	0.182%
189	10.945	10.942	10.950	VV	359	1619	0.07%	0.018%
190	10.973	10.950	10.989	VV	627	10139	0.41%	0.113%
191	11.005	10.989	11.015	VV	489	5575	0.23%	0.062%
192	11.027	11.015	11.060	VV	450	8578	0.35%	0.096%
193	11.070	11.060	11.088	VV	352	5000	0.20%	0.056%
194	11.093	11.088	11.110	VV	368	3390	0.14%	0.038%

rteres

195	11.126	11.110	11.156	VV	410	7121	0.29%	0.080%
196	11.185	11.156	11.227	VV	1180	21587	0.88%	0.241%
197	11.244	11.227	11.260	VV	540	7559	0.31%	0.085%
198	11.297	11.260	11.325	VV	311	8647	0.35%	0.097%
199	11.332	11.325	11.349	VV	231	2623	0.11%	0.029%
200	11.353	11.349	11.357	VV	168	708	0.03%	0.008%
201	11.362	11.357	11.372	VV	157	994	0.04%	0.011%
202	11.380	11.372	11.387	VV	119	651	0.03%	0.007%
203	11.389	11.387	11.405	VV	114	729	0.03%	0.008%
204	11.422	11.405	11.453	VV	404	3924	0.16%	0.044%
205	11.473	11.453	11.489	PV	210	2512	0.10%	0.028%
206	11.509	11.489	11.519	VV	137	1592	0.06%	0.018%
207	11.540	11.519	11.567	VV	403	6673	0.27%	0.075%
208	11.583	11.567	11.590	VV	255	2770	0.11%	0.031%
209	11.611	11.590	11.632	VV	728	9325	0.38%	0.104%
210	11.635	11.632	11.654	VV	173	1957	0.08%	0.022%
211	11.687	11.654	11.744	VV	1150	20617	0.84%	0.231%
212	11.767	11.744	11.792	VV	413	5674	0.23%	0.063%
213	11.811	11.792	11.816	VV	262	2440	0.10%	0.027%
214	11.823	11.816	11.836	VV	259	2898	0.12%	0.032%
215	11.844	11.836	11.857	VV	243	2792	0.11%	0.031%
216	11.875	11.857	11.916	VV	799	16087	0.66%	0.180%
217	11.922	11.916	11.940	VV	326	3968	0.16%	0.044%
218	11.963	11.940	11.981	VV	381	6531	0.27%	0.073%
219	12.001	11.981	12.017	VV	450	6937	0.28%	0.078%
220	12.032	12.017	12.059	VV	542	9449	0.39%	0.106%
221	12.066	12.059	12.069	VV	315	1704	0.07%	0.019%
222	12.091	12.069	12.119	VV	1155	17975	0.73%	0.201%
223	12.122	12.119	12.134	VV	289	2280	0.09%	0.025%
224	12.146	12.134	12.173	VV	295	4801	0.20%	0.054%
225	12.189	12.173	12.194	VV	317	2850	0.12%	0.032%
226	12.199	12.194	12.205	VV	359	2270	0.09%	0.025%
227	12.217	12.205	12.240	VV	435	6632	0.27%	0.074%
228	12.282	12.240	12.297	VV	691	16509	0.67%	0.185%
229	12.307	12.297	12.318	VV	538	5653	0.23%	0.063%
230	12.335	12.318	12.350	VV	570	8094	0.33%	0.090%
231	12.375	12.350	12.432	VV	2049	37850	1.54%	0.423%
232	12.435	12.432	12.460	VV	367	4757	0.19%	0.053%
233	12.490	12.460	12.504	VV	700	10971	0.45%	0.123%
234	12.530	12.504	12.588	VV	27286	362195	14.77%	4.050%
235	12.609	12.588	12.685	VV	2215	58654	2.39%	0.656%
236	12.691	12.685	12.694	VV	472	2378	0.10%	0.027%
237	12.702	12.694	12.722	VV	495	6838	0.28%	0.076%
238	12.739	12.722	12.760	VV	510	9932	0.41%	0.111%
239	12.766	12.760	12.797	VV	406	6932	0.28%	0.078%
240	12.801	12.797	12.809	VV	331	1943	0.08%	0.022%
241	12.816	12.809	12.824	VV	457	3207	0.13%	0.036%
242	12.855	12.824	12.899	VV	876	24914	1.02%	0.279%
243	12.926	12.899	12.957	VV	820	16471	0.67%	0.184%
244	12.961	12.957	12.967	VV	227	1166	0.05%	0.013%
245	13.000	12.967	13.040	VV	2053	38391	1.57%	0.429%
246	13.043	13.040	13.054	VV	273	1860	0.08%	0.021%

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247	13.060	13.054	13.072	VV	267	2204	0.09%	0.025%
248	13.076	13.072	13.085	VV	159	1035	0.04%	0.012%
249	13.092	13.085	13.108	VV	171	1657	0.07%	0.019%
250	13.124	13.108	13.135	VV	214	2203	0.09%	0.025%
251	13.143	13.135	13.150	VV	152	1006	0.04%	0.011%
252	13.173	13.150	13.234	VV	457	12358	0.50%	0.138%
253	13.240	13.234	13.247	VV	151	1035	0.04%	0.012%
254	13.255	13.247	13.264	VV	149	1172	0.05%	0.013%
255	13.292	13.264	13.302	VV	373	5083	0.21%	0.057%
256	13.340	13.302	13.398	VV	842	30055	1.23%	0.336%
257	13.414	13.398	13.447	VV	409	8337	0.34%	0.093%
258	13.455	13.447	13.462	VV	271	1884	0.08%	0.021%
259	13.487	13.462	13.515	VV	743	12222	0.50%	0.137%
260	13.541	13.515	13.549	VV	817	9761	0.40%	0.109%
261	13.563	13.549	13.580	VV	875	14479	0.59%	0.162%
262	13.609	13.580	13.690	VV	1601	53068	2.16%	0.593%
263	13.696	13.690	13.699	VV	224	1024	0.04%	0.011%
264	13.768	13.699	13.797	VV	3225	56712	2.31%	0.634%
265	13.821	13.797	13.877	VV	4625	62773	2.56%	0.702%
266	13.891	13.877	13.895	VV	217	1791	0.07%	0.020%
267	13.899	13.895	13.905	VV	215	1029	0.04%	0.012%
268	13.914	13.905	13.918	VV	240	1369	0.06%	0.015%
269	13.927	13.918	13.935	VV	315	2654	0.11%	0.030%
270	13.939	13.935	13.945	VV	338	1616	0.07%	0.018%
271	13.948	13.945	13.957	VV	291	1886	0.08%	0.021%
272	13.962	13.957	13.967	VV	276	1485	0.06%	0.017%
273	13.988	13.967	14.020	VV	363	7438	0.30%	0.083%
274	14.029	14.020	14.037	VV	183	1432	0.06%	0.016%
275	14.077	14.037	14.104	VV	693	13462	0.55%	0.151%
276	14.128	14.104	14.176	VV	1317	23014	0.94%	0.257%
277	14.181	14.176	14.197	VV	193	2100	0.09%	0.023%
278	14.202	14.197	14.210	VV	154	1013	0.04%	0.011%
279	14.232	14.210	14.256	VV	421	7288	0.30%	0.081%
280	14.263	14.256	14.268	VV	120	698	0.03%	0.008%
281	14.272	14.268	14.277	VV	148	565	0.02%	0.006%
282	14.281	14.277	14.294	VV	164	768	0.03%	0.009%
283	14.367	14.294	14.406	PV	265	9535	0.39%	0.107%
284	14.414	14.406	14.418	VV	185	1034	0.04%	0.012%
285	14.425	14.418	14.437	VV	179	1660	0.07%	0.019%
286	14.443	14.437	14.449	VV	139	754	0.03%	0.008%
287	14.475	14.449	14.506	VV	1636	26164	1.07%	0.293%
288	14.528	14.506	14.586	VV	787	21288	0.87%	0.238%
289	14.606	14.586	14.634	VV	309	6396	0.26%	0.072%
290	14.641	14.634	14.673	VV	264	4792	0.20%	0.054%
291	14.694	14.673	14.732	VV	668	12747	0.52%	0.143%
292	14.735	14.732	14.739	VV	216	772	0.03%	0.009%
293	14.758	14.739	14.764	VV	466	5411	0.22%	0.060%
294	14.791	14.764	14.807	VV	571	11622	0.47%	0.130%
295	14.820	14.807	14.840	VV	391	6944	0.28%	0.078%
296	14.846	14.840	14.874	VV	406	4296	0.18%	0.048%
297	14.918	14.874	14.938	VV	322	7715	0.31%	0.086%
298	14.965	14.938	14.994	VV	247	5729	0.23%	0.064%
299	15.032	14.994	15.110	VV	155894	2100958	85.68%	23.490%

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300	15.118	15.110	15.153	VV	321	4937	0.20%	0.055%
301	15.202	15.153	15.218	VV	578	12163	0.50%	0.136%
302	15.235	15.218	15.259	VV	758	11393	0.46%	0.127%
303	15.278	15.259	15.355	VV	1057	17643	0.72%	0.197%
304	15.379	15.355	15.402	VV	145	1736	0.07%	0.019%
305	15.428	15.402	15.460	VV	523	8145	0.33%	0.091%
306	15.481	15.460	15.492	PV	356	4055	0.17%	0.045%
307	15.542	15.492	15.583	VV	917	23218	0.95%	0.260%
308	15.619	15.583	15.735	VV	13484	303191	12.36%	3.390%
309	15.776	15.735	15.864	VV	193555	2452023	100.00%	27.415%
310	15.892	15.864	15.926	VV	486	9275	0.38%	0.104%
311	15.936	15.926	15.965	VV	199	2576	0.11%	0.029%
312	16.048	15.965	16.067	PV	432	11460	0.47%	0.128%
313	16.079	16.067	16.093	VV	273	3047	0.12%	0.034%
314	16.148	16.093	16.202	VV	474	15683	0.64%	0.175%
315	16.217	16.202	16.237	VV	277	4487	0.18%	0.050%
316	16.259	16.237	16.297	VV	669	12440	0.51%	0.139%
317	16.321	16.297	16.344	VV	331	5064	0.21%	0.057%
318	16.396	16.344	16.419	PV	205	5133	0.21%	0.057%
319	16.458	16.419	16.482	VV	198	5170	0.21%	0.058%
320	16.495	16.482	16.530	VV	139	2517	0.10%	0.028%
321	16.647	16.530	16.679	PV	1166	31754	1.30%	0.355%
322	16.707	16.679	16.725	VV	846	15926	0.65%	0.178%
323	16.745	16.725	16.770	VV	805	12242	0.50%	0.137%
324	16.825	16.770	16.869	VV	5343	70315	2.87%	0.786%
325	16.885	16.869	16.900	VV	212	2823	0.12%	0.032%
326	16.906	16.900	16.930	VV	198	2528	0.10%	0.028%
327	16.943	16.930	16.955	VV	176	1832	0.07%	0.020%
328	16.976	16.955	17.007	VV	263	4823	0.20%	0.054%
329	17.024	17.007	17.035	VV	178	1671	0.07%	0.019%
330	17.046	17.035	17.057	VV	104	1068	0.04%	0.012%
331	17.104	17.057	17.154	PV	574	16653	0.68%	0.186%
332	17.212	17.154	17.234	VV	2109	40176	1.64%	0.449%
333	17.260	17.234	17.319	VV	8417	120670	4.92%	1.349%
334	17.365	17.319	17.380	PV	230	4117	0.17%	0.046%

Sum of corrected areas: 8944119

FG030325.M Fri Mar 07 01:45:30 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-SO-COMP-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-14	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84.4 Decanted:
Sample Wt/Vol:	30.05 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
FF015621.D	1	03/05/25 13:12	03/06/25 11:57	PB167017

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1360	J	219	1970	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	21.2		37 - 130	106%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015621.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 11:57
Operator : YP\AJ
Sample : Q1478-14
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825

Integration File: autoint1.e
Quant Time: Mar 07 00:35:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.023	2526220	21.187 ug/ml
Target Compounds				

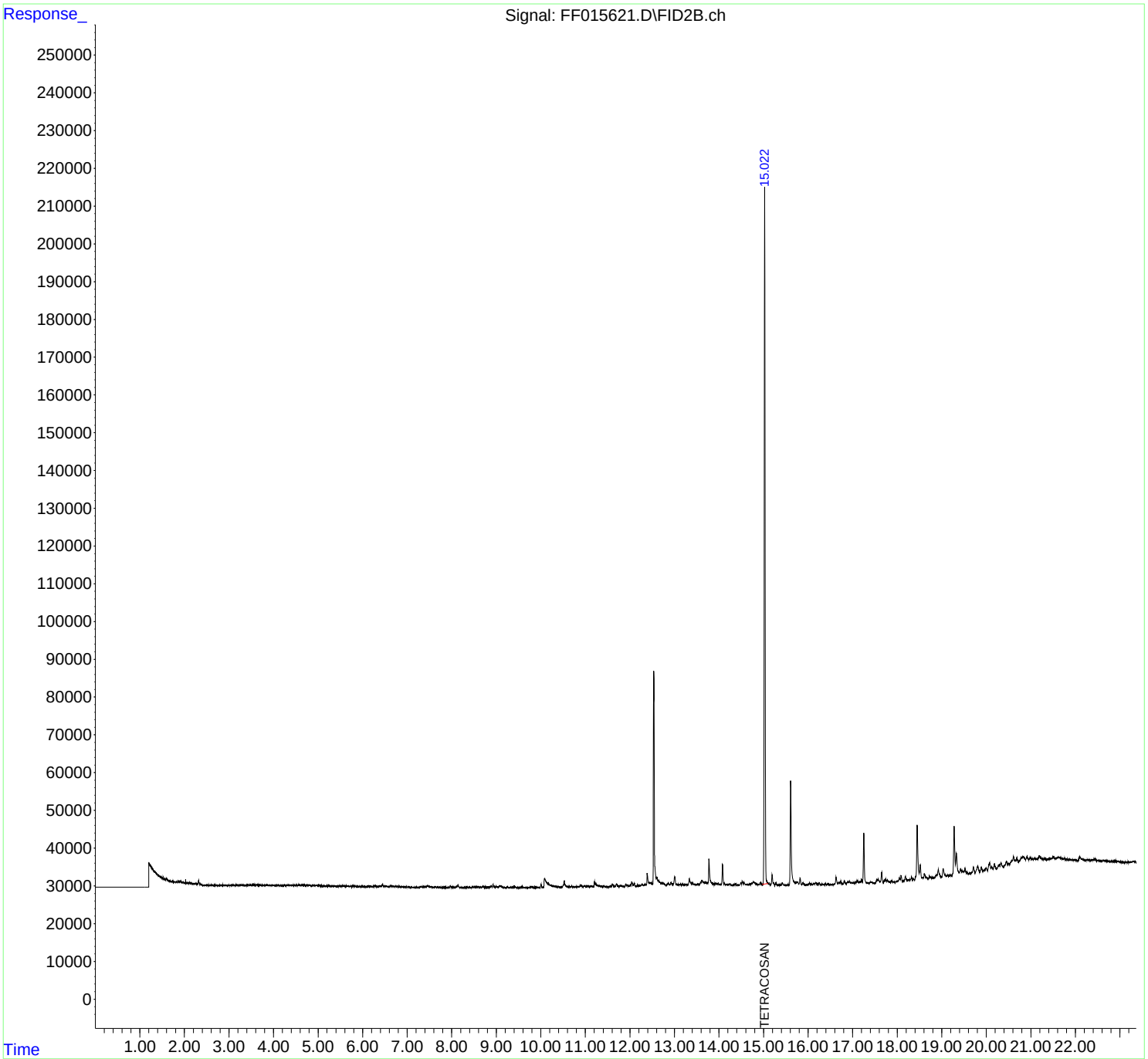
(f)=RT Delta > 1/2 Window (m)=manual int.

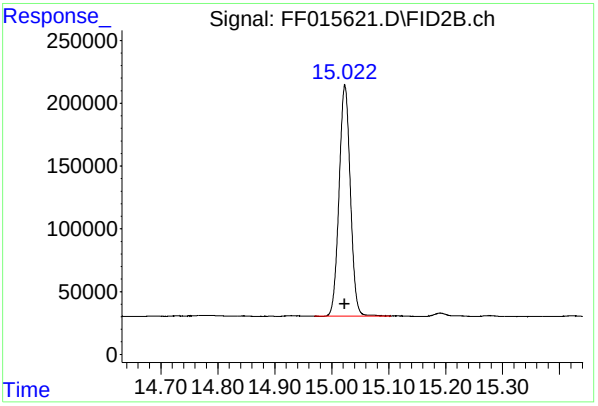
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015621.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 11:57
Operator : YP\AJ
Sample : Q1478-14
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825

Integration File: autoint1.e
Quant Time: Mar 07 00:35:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.023 min
Delta R.T.: 0.000 mi
Response: 2526220
Conc: 21.19 ug/m

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015621.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 11:57
Sample : Q1478-14
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.422	4.400	4.439	BV	57	311	0.01%	0.005%
2	4.442	4.439	4.468	PV	32	601	0.02%	0.009%
3	4.472	4.468	4.484	VV	120	335	0.01%	0.005%
4	4.488	4.484	4.492	PV	92	178	0.01%	0.003%
5	4.497	4.492	4.531	PV	108	1273	0.05%	0.019%
6	4.568	4.531	4.594	VV	193	3887	0.15%	0.057%
7	4.599	4.594	4.661	VV	144	4495	0.17%	0.066%
8	4.665	4.661	4.670	VV	137	443	0.02%	0.006%
9	4.692	4.670	4.722	VV	287	4156	0.16%	0.061%
10	4.724	4.722	4.734	VV	51	272	0.01%	0.004%
11	4.756	4.734	4.784	PV	185	3563	0.14%	0.052%
12	4.790	4.784	4.807	VV	173	1650	0.06%	0.024%
13	4.810	4.807	4.815	VV	138	594	0.02%	0.009%
14	4.820	4.815	4.825	VV	122	636	0.02%	0.009%
15	4.834	4.825	4.840	VV	147	845	0.03%	0.012%
16	4.844	4.840	4.860	VV	108	1008	0.04%	0.015%
17	4.878	4.860	4.894	VV	192	2484	0.10%	0.036%
18	4.898	4.894	4.903	VV	130	665	0.03%	0.010%
19	4.909	4.903	4.917	VV	158	1202	0.05%	0.018%
20	4.920	4.917	4.926	VV	173	671	0.03%	0.010%
21	4.967	4.926	4.972	VV	248	4247	0.16%	0.062%
22	4.976	4.972	4.994	VV	196	1926	0.07%	0.028%
23	5.011	4.994	5.022	VV	234	3060	0.12%	0.045%
24	5.026	5.022	5.070	VV	198	3796	0.15%	0.056%
25	5.087	5.070	5.133	VV	139	3374	0.13%	0.049%
26	5.148	5.133	5.172	VV	126	1871	0.07%	0.027%
27	5.179	5.172	5.191	VV	124	718	0.03%	0.011%
28	5.197	5.191	5.206	VV	122	754	0.03%	0.011%
29	5.209	5.206	5.214	VV	95	296	0.01%	0.004%
30	5.231	5.214	5.256	VV	204	3112	0.12%	0.046%
31	5.261	5.256	5.304	VV	92	1878	0.07%	0.028%
32	5.310	5.304	5.322	VV	108	625	0.02%	0.009%
33	5.329	5.322	5.342	VV	118	646	0.03%	0.009%
34	5.403	5.342	5.412	PV	102	2022	0.08%	0.030%
35	5.418	5.412	5.437	VV	150	1441	0.06%	0.021%
36	5.457	5.437	5.484	VV	170	2607	0.10%	0.038%

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37	5.490	5.484	5.517	VV	115	1428	0.06%	0.021%
38	5.550	5.517	5.613	VV	186	6153	0.24%	0.090%
39	5.666	5.613	5.677	VV	109	3226	0.13%	0.047%
40	5.681	5.677	5.702	VV	141	1210	0.05%	0.018%
41	5.712	5.702	5.777	VV	139	3396	0.13%	0.050%
42	5.799	5.777	5.832	VV	184	3345	0.13%	0.049%
43	5.842	5.832	5.867	VV	87	1639	0.06%	0.024%
44	5.874	5.867	5.906	VV	110	1660	0.06%	0.024%
45	5.919	5.906	5.946	VV	131	1607	0.06%	0.024%
46	5.976	5.946	6.006	VV	220	4960	0.19%	0.073%
47	6.014	6.006	6.021	VV	121	747	0.03%	0.011%
48	6.036	6.021	6.086	VV	112	3193	0.12%	0.047%
49	6.096	6.086	6.114	VV	148	1577	0.06%	0.023%
50	6.121	6.114	6.132	VV	126	953	0.04%	0.014%
51	6.138	6.132	6.157	VV	127	1257	0.05%	0.018%
52	6.170	6.157	6.192	VV	132	2103	0.08%	0.031%
53	6.242	6.192	6.256	VV	205	4675	0.18%	0.068%
54	6.279	6.256	6.314	VV	270	6900	0.27%	0.101%
55	6.329	6.314	6.340	VV	236	2620	0.10%	0.038%
56	6.398	6.340	6.417	VV	321	10028	0.39%	0.147%
57	6.447	6.417	6.491	VV	683	15997	0.62%	0.234%
58	6.512	6.491	6.532	VV	328	6460	0.25%	0.095%
59	6.535	6.532	6.586	VV	282	6949	0.27%	0.102%
60	6.633	6.586	6.659	VV	349	11194	0.43%	0.164%
61	6.668	6.659	6.721	VV	263	8506	0.33%	0.125%
62	6.741	6.721	6.831	VV	292	14139	0.55%	0.207%
63	6.838	6.831	6.856	VV	191	2088	0.08%	0.031%
64	6.863	6.856	6.912	VV	197	4574	0.18%	0.067%
65	6.922	6.912	6.966	VV	156	3610	0.14%	0.053%
66	6.984	6.966	7.024	VV	152	4020	0.16%	0.059%
67	7.030	7.024	7.069	VV	179	3283	0.13%	0.048%
68	7.076	7.069	7.129	VV	114	2274	0.09%	0.033%
69	7.136	7.129	7.183	VV	86	1959	0.08%	0.029%
70	7.191	7.183	7.233	VV	132	2272	0.09%	0.033%
71	7.278	7.233	7.288	PV	172	3875	0.15%	0.057%
72	7.317	7.288	7.344	VV	270	6026	0.23%	0.088%
73	7.350	7.344	7.364	VV	205	2593	0.10%	0.038%
74	7.382	7.364	7.401	VV	264	4894	0.19%	0.072%
75	7.421	7.401	7.432	VV	337	5063	0.20%	0.074%
76	7.454	7.432	7.613	VV	517	26679	1.04%	0.391%
77	7.636	7.613	7.667	VV	251	5747	0.22%	0.084%
78	7.683	7.667	7.704	VV	176	2976	0.12%	0.044%
79	7.717	7.704	7.727	VV	174	1933	0.08%	0.028%
80	7.743	7.727	7.773	VV	138	3168	0.12%	0.046%
81	7.803	7.773	7.822	VV	183	3928	0.15%	0.058%
82	7.843	7.822	7.901	VV	190	4743	0.18%	0.069%
83	7.921	7.901	7.939	VV	170	2225	0.09%	0.033%
84	7.970	7.939	7.996	VV	658	10346	0.40%	0.152%
85	8.001	7.996	8.052	VV	270	4971	0.19%	0.073%
86	8.072	8.052	8.081	VV	155	2151	0.08%	0.032%
87	8.105	8.081	8.124	VV	423	7611	0.30%	0.112%
88	8.142	8.124	8.206	VV	715	13657	0.53%	0.200%
89	8.230	8.206	8.277	VV	194	4124	0.16%	0.060%

90	8.291	8.277	8.304	VV	104	1511	0.06%	0.022%
91	8.319	8.304	8.362	VV	219	4662	0.18%	0.068%
92	8.389	8.362	8.399	VV	202	3432	0.13%	0.050%
93	8.409	8.399	8.434	VV	161	2656	0.10%	0.039%
94	8.462	8.434	8.491	VV	303	6642	0.26%	0.097%
95	8.508	8.491	8.524	VV	322	4658	0.18%	0.068%
96	8.536	8.524	8.548	VV	318	4039	0.16%	0.059%
97	8.570	8.548	8.634	VV	401	12990	0.50%	0.190%
98	8.708	8.634	8.771	VV	423	19271	0.75%	0.282%
99	8.814	8.771	8.871	VV	284	12123	0.47%	0.178%
100	8.889	8.871	8.906	VV	691	8954	0.35%	0.131%
101	8.929	8.906	8.961	VV	925	15413	0.60%	0.226%
102	9.001	8.961	9.044	VV	459	13369	0.52%	0.196%
103	9.079	9.044	9.089	VV	588	11849	0.46%	0.174%
104	9.100	9.089	9.176	VV	510	15629	0.61%	0.229%
105	9.188	9.176	9.207	VV	168	2194	0.09%	0.032%
106	9.218	9.207	9.231	VV	184	1806	0.07%	0.026%
107	9.249	9.231	9.278	VV	364	5970	0.23%	0.087%
108	9.296	9.278	9.334	VV	253	5549	0.22%	0.081%
109	9.345	9.334	9.376	VV	208	4102	0.16%	0.060%
110	9.398	9.376	9.429	VV	470	9636	0.37%	0.141%
111	9.432	9.429	9.464	VV	274	4033	0.16%	0.059%
112	9.474	9.464	9.503	VV	158	2542	0.10%	0.037%
113	9.523	9.503	9.536	PV	114	1739	0.07%	0.025%
114	9.575	9.536	9.626	VV	385	10860	0.42%	0.159%
115	9.645	9.626	9.657	VV	259	2697	0.10%	0.040%
116	9.666	9.657	9.717	VV	151	3702	0.14%	0.054%
117	9.725	9.717	9.736	PV	83	712	0.03%	0.010%
118	9.774	9.736	9.786	VV	281	5471	0.21%	0.080%
119	9.805	9.786	9.850	VV	317	8254	0.32%	0.121%
120	9.857	9.850	9.877	VV	190	2406	0.09%	0.035%
121	9.908	9.877	9.926	VV	218	4804	0.19%	0.070%
122	9.933	9.926	9.942	VV	145	1382	0.05%	0.020%
123	9.948	9.942	9.972	VV	184	2467	0.10%	0.036%
124	10.007	9.972	10.061	VV	963	16776	0.65%	0.246%
125	10.086	10.061	10.154	VV	2524	87472	3.40%	1.282%
126	10.169	10.154	10.219	VV	1271	35558	1.38%	0.521%
127	10.232	10.219	10.269	VV	708	16072	0.62%	0.235%
128	10.292	10.269	10.340	VV	517	17026	0.66%	0.249%
129	10.348	10.340	10.390	VV	343	8066	0.31%	0.118%
130	10.399	10.390	10.426	VV	309	4723	0.18%	0.069%
131	10.442	10.426	10.474	VV	239	4313	0.17%	0.063%
132	10.527	10.474	10.581	VV	1841	43939	1.71%	0.644%
133	10.598	10.581	10.617	VV	288	5563	0.22%	0.082%
134	10.625	10.617	10.636	VV	262	2591	0.10%	0.038%
135	10.654	10.636	10.673	VV	325	5198	0.20%	0.076%
136	10.692	10.673	10.715	VV	500	7299	0.28%	0.107%
137	10.728	10.715	10.761	VV	289	4838	0.19%	0.071%
138	10.813	10.761	10.825	VV	308	6587	0.26%	0.097%
139	10.834	10.825	10.864	VV	300	5250	0.20%	0.077%
140	10.886	10.864	10.896	VV	545	7590	0.29%	0.111%
141	10.911	10.896	10.948	VV	576	11135	0.43%	0.163%

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142	10.978	10.948	11.010	VV	482	11884	0.46%	0.174%
143	11.041	11.010	11.074	VV	401	11418	0.44%	0.167%
144	11.130	11.074	11.146	VV	337	11222	0.44%	0.164%
145	11.154	11.146	11.184	VV	313	5288	0.21%	0.077%
146	11.204	11.184	11.272	VV	1503	41368	1.61%	0.606%
147	11.282	11.272	11.386	VV	526	21830	0.85%	0.320%
148	11.391	11.386	11.407	VV	247	2465	0.10%	0.036%
149	11.425	11.407	11.499	VV	278	8328	0.32%	0.122%
150	11.512	11.499	11.527	VV	155	1511	0.06%	0.022%
151	11.560	11.527	11.573	VV	247	4679	0.18%	0.069%
152	11.613	11.573	11.670	VV	820	21138	0.82%	0.310%
153	11.698	11.670	11.759	VV	855	22749	0.88%	0.333%
154	11.778	11.759	11.799	VV	495	8414	0.33%	0.123%
155	11.807	11.799	11.836	VV	417	6412	0.25%	0.094%
156	11.844	11.836	11.874	VV	256	3345	0.13%	0.049%
157	11.903	11.874	11.959	VV	692	22353	0.87%	0.328%
158	11.967	11.959	11.985	VV	414	5049	0.20%	0.074%
159	12.041	11.985	12.076	VV	1311	35753	1.39%	0.524%
160	12.101	12.076	12.150	VV	1020	21182	0.82%	0.310%
161	12.167	12.150	12.196	VV	453	7741	0.30%	0.113%
162	12.212	12.196	12.223	VV	369	5182	0.20%	0.076%
163	12.231	12.223	12.239	VV	297	2868	0.11%	0.042%
164	12.280	12.239	12.310	VV	743	21364	0.83%	0.313%
165	12.341	12.310	12.362	VV	710	16806	0.65%	0.246%
166	12.388	12.362	12.442	VV	3669	75423	2.93%	1.105%
167	12.453	12.442	12.474	VV	1039	18197	0.71%	0.267%
168	12.490	12.474	12.511	VV	1083	20224	0.79%	0.296%
169	12.536	12.511	12.592	VV	57185	728453	28.28%	10.673%
170	12.609	12.592	12.629	VV	2611	47285	1.84%	0.693%
171	12.640	12.629	12.746	VV	1758	79343	3.08%	1.163%
172	12.752	12.746	12.823	VV	850	28009	1.09%	0.410%
173	12.855	12.823	12.892	VV	972	26444	1.03%	0.387%
174	12.922	12.892	12.954	VV	1135	26946	1.05%	0.395%
175	13.006	12.954	13.062	VV	2617	73441	2.85%	1.076%
176	13.073	13.062	13.084	VV	503	6310	0.25%	0.092%
177	13.091	13.084	13.119	VV	579	10356	0.40%	0.152%
178	13.135	13.119	13.157	VV	653	12168	0.47%	0.178%
179	13.176	13.157	13.212	VV	595	16422	0.64%	0.241%
180	13.218	13.212	13.225	VV	468	3479	0.14%	0.051%
181	13.254	13.225	13.297	VV	535	19696	0.76%	0.289%
182	13.333	13.297	13.406	VV	2041	68777	2.67%	1.008%
183	13.415	13.406	13.484	VV	715	25510	0.99%	0.374%
184	13.537	13.484	13.555	VV	713	22462	0.87%	0.329%
185	13.591	13.555	13.602	VV	1115	22315	0.87%	0.327%
186	13.620	13.602	13.684	VV	1573	57177	2.22%	0.838%
187	13.710	13.684	13.739	VV	1060	30752	1.19%	0.451%
188	13.773	13.739	13.900	VV	7203	165119	6.41%	2.419%
189	13.928	13.900	13.969	VV	704	26464	1.03%	0.388%
190	13.987	13.969	14.017	VV	652	15936	0.62%	0.234%
191	14.078	14.017	14.111	VV	5796	92426	3.59%	1.354%
192	14.122	14.111	14.156	VV	774	14392	0.56%	0.211%
193	14.181	14.156	14.206	VV	462	11606	0.45%	0.170%
194	14.247	14.206	14.305	VV	533	21256	0.83%	0.311%

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195	14.351	14.305	14.381	VV	407	14660	0.57%	0.215%
196	14.387	14.381	14.436	VV	422	9318	0.36%	0.137%
197	14.449	14.436	14.462	VV	300	4114	0.16%	0.060%
198	14.489	14.462	14.502	VV	896	14245	0.55%	0.209%
199	14.521	14.502	14.549	VV	1270	25231	0.98%	0.370%
200	14.562	14.549	14.662	VV	887	29758	1.16%	0.436%
201	14.687	14.662	14.711	VV	523	11391	0.44%	0.167%
202	14.728	14.711	14.742	VV	698	10922	0.42%	0.160%
203	14.775	14.742	14.822	VV	1011	37270	1.45%	0.546%
204	14.844	14.822	14.868	VV	603	13266	0.52%	0.194%
205	14.894	14.868	14.904	VV	430	7278	0.28%	0.107%
206	14.930	14.904	14.981	VV	825	24266	0.94%	0.356%
207	15.023	14.981	15.154	VV	184479	2575426	100.00%	37.736%
208	15.191	15.154	15.252	VV	2905	56757	2.20%	0.832%
209	15.277	15.252	15.331	VV	766	15818	0.61%	0.232%
210	15.359	15.331	15.383	VV	217	4150	0.16%	0.061%
211	15.423	15.383	15.471	VV	753	15392	0.60%	0.226%
212	15.475	15.471	15.507	VV	190	1858	0.07%	0.027%
213	15.552	15.507	15.577	PV	353	7227	0.28%	0.106%
214	15.607	15.577	15.712	VV	27744	468624	18.20%	6.866%
215	15.718	15.712	15.726	VV	702	5570	0.22%	0.082%
216	15.746	15.726	15.758	VV	795	14212	0.55%	0.208%
217	15.768	15.758	15.791	VV	894	12906	0.50%	0.189%
218	15.820	15.791	15.861	VV	1927	32510	1.26%	0.476%
219	15.881	15.861	15.986	VV	642	17716	0.69%	0.260%
220	16.036	15.986	16.060	VV	412	11163	0.43%	0.164%
221	16.072	16.060	16.097	VV	263	4580	0.18%	0.067%
222	16.131	16.097	16.151	VV	552	10638	0.41%	0.156%
223	16.173	16.151	16.204	VV	706	14207	0.55%	0.208%
224	16.212	16.204	16.229	VV	286	3373	0.13%	0.049%
225	16.248	16.229	16.299	VV	694	11739	0.46%	0.172%
226	16.319	16.299	16.339	VV	208	2914	0.11%	0.043%
227	16.386	16.339	16.409	VV	317	6588	0.26%	0.097%
228	16.446	16.409	16.483	VV	228	5781	0.22%	0.085%
229	16.497	16.483	16.522	PV	111	1104	0.04%	0.016%
230	16.627	16.522	16.676	PV	1980	44622	1.73%	0.654%
231	16.694	16.676	16.711	VV	512	9329	0.36%	0.137%
232	16.733	16.711	16.770	VV	963	16722	0.65%	0.245%
233	16.816	16.770	16.847	VV	973	18869	0.73%	0.276%
234	16.891	16.847	16.914	VV	765	17949	0.70%	0.263%
235	16.932	16.914	16.956	VV	715	12970	0.50%	0.190%
236	16.970	16.956	16.991	VV	423	7075	0.27%	0.104%
237	17.006	16.991	17.032	VV	337	7076	0.27%	0.104%
238	17.111	17.032	17.139	VV	815	31779	1.23%	0.466%
239	17.200	17.139	17.219	VV	1109	27351	1.06%	0.401%
240	17.250	17.219	17.327	VV	13484	203575	7.90%	2.983%
241	17.332	17.327	17.367	VV	202	3012	0.12%	0.044%

Sum of corrected areas: 6824918

FF030325.M Fri Mar 07 01:01:51 2025

CALIBRATION SUMMARY

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: JACO05

ProjectID: Former Schlumberger STC PTC Site # D3868221

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG No.: Q1478

Calibration Sequence : FF030325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	127581842	127582	FF015569.D
500	62157091	124314	FF015570.D
200	23925740	119629	FF015571.D
100	12585691	125857	FF015572.D
50	6301073	126021	FF015573.D
AVG RF : 124681	**% RSD : 2.448**		**AVG RT : 15.0244**

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015569.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 12:17
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:04:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 13:03:04 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...	15.030	12027203	101.403 ug/ml
	Target Compounds			
1)	N-OCTANE	2.025	11676734	101.453 ug/ml
2)	N-DECANE	4.568	11739175	101.447 ug/ml
3)	N-DODECANE	6.738	12225907	101.056 ug/ml
4)	N-TETRADECANE	8.565	12111176	100.958 ug/ml
5)	N-HEXADECANE	10.174	12535094	100.899 ug/ml
6)	N-OCTADECANE	11.618	13195137	100.871 ug/ml
7)	N-EICOSANE	12.929	13135796	100.996 ug/ml
8)	N-DOCOSANE	14.129	13164223	101.259 ug/ml
10)	N-TETRACOSANE	15.234	13294271	101.467 ug/ml
11)	N-HEXACOSANE	16.256	13165048	101.918 ug/ml
12)	N-OCTACOSANE	17.208	13016015	102.077 ug/ml
13)	N-TRIACONTANE	18.096	12794293	102.096 ug/ml
14)	N-DOTRIACONTANE	18.930	12439099	102.243 ug/ml
15)	N-TETRATRIACONTANE	19.713	11497810	103.011 ug/ml
16)	N-HEXATRIACONTANE	20.452	10252016	104.306 ug/ml
17)	N-OCTATRIACONTANE	21.190	9646276	105.457 ug/ml
18)	N-TETRACONTANE	22.105	9145878	105.922 ug/ml

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

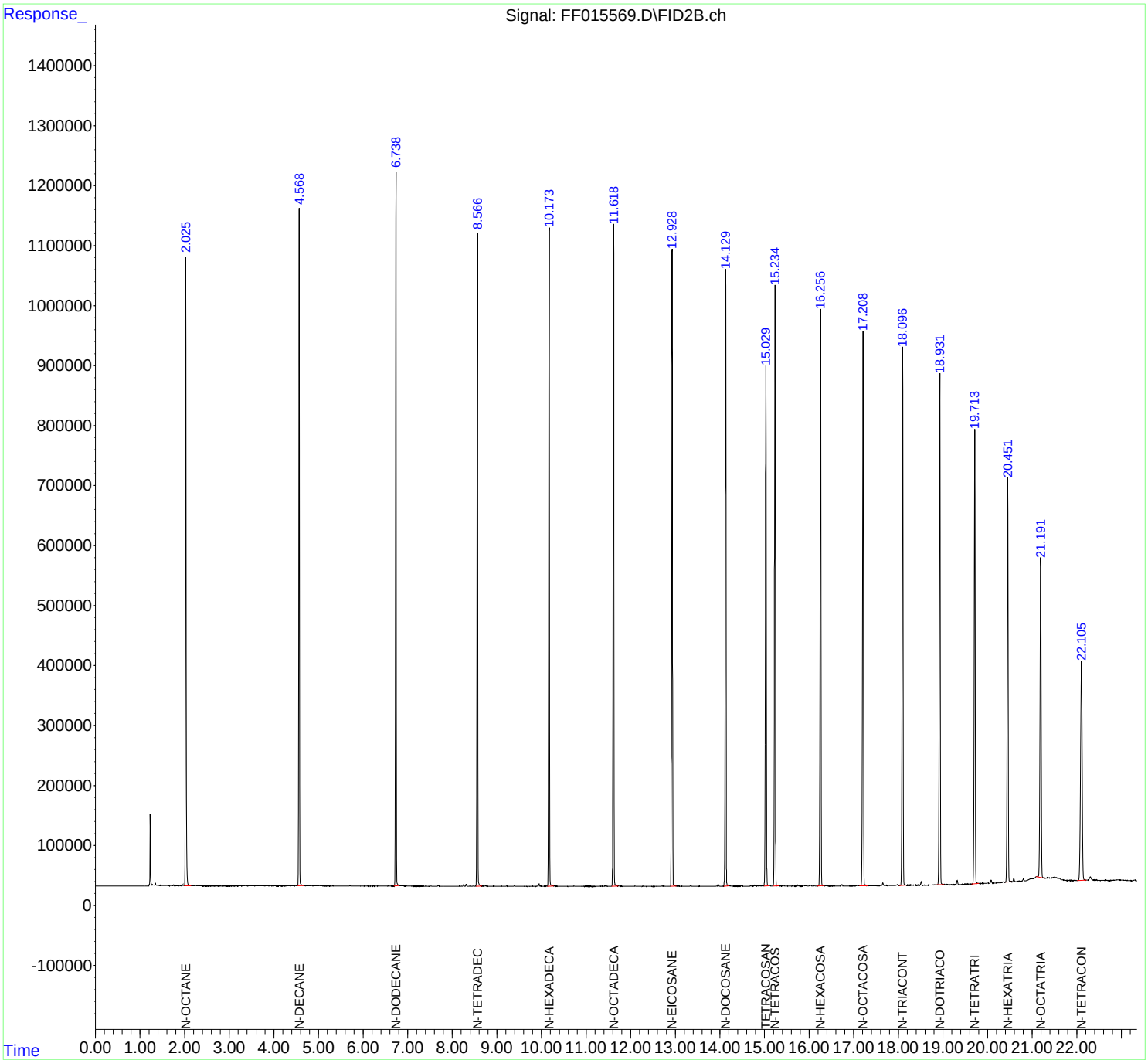
Quantitation Report (QT Reviewed)

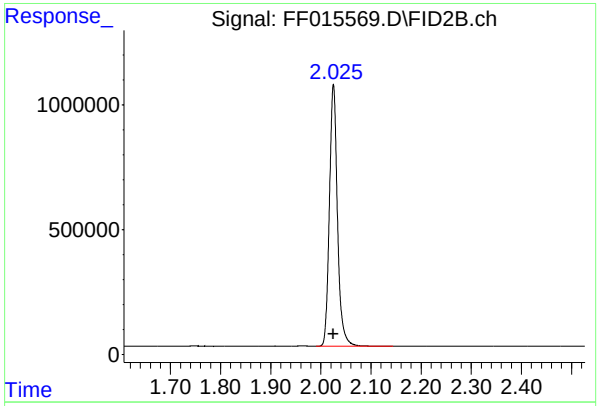
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015569.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 12:17
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:04:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 13:03:04 2025
Response via : Initial Calibration
Integrator: ChemStation

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

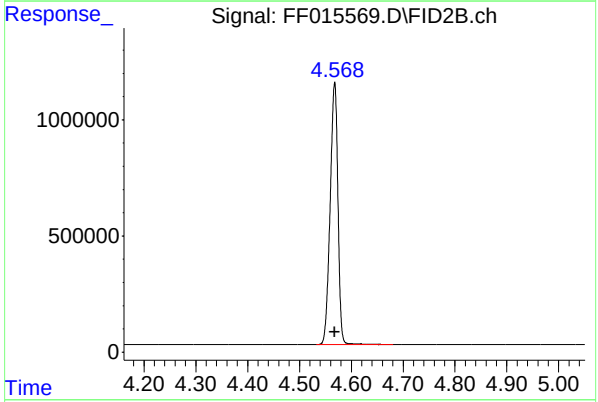




#1 N-OCTANE

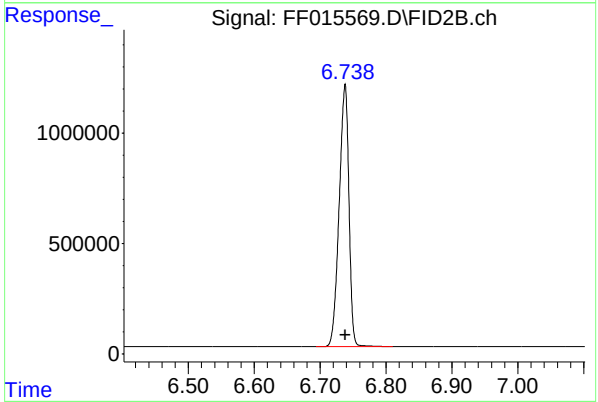
R.T.: 2.025 min
Delta R.T.: 0.000 min
Response: 11676734
Conc: 101.45 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



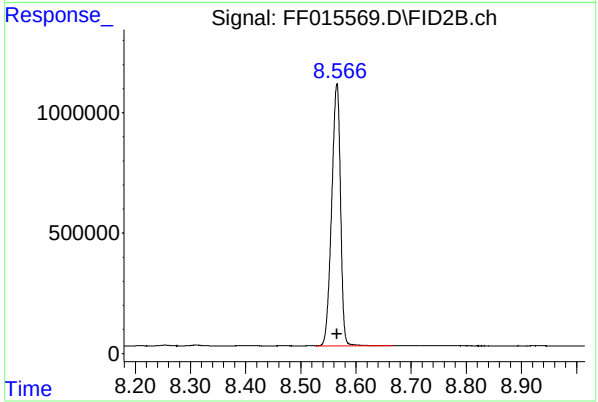
#2 N-DECANE

R.T.: 4.568 min
Delta R.T.: 0.000 min
Response: 11739175
Conc: 101.45 ug/ml



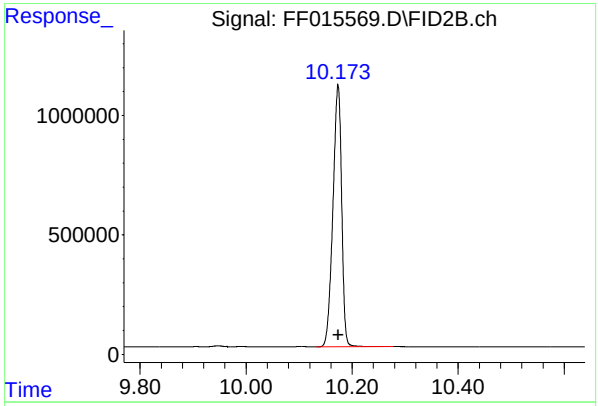
#3 N-DODECANE

R.T.: 6.738 min
Delta R.T.: 0.000 min
Response: 12225907
Conc: 101.06 ug/ml



#4 N-TETRADECANE

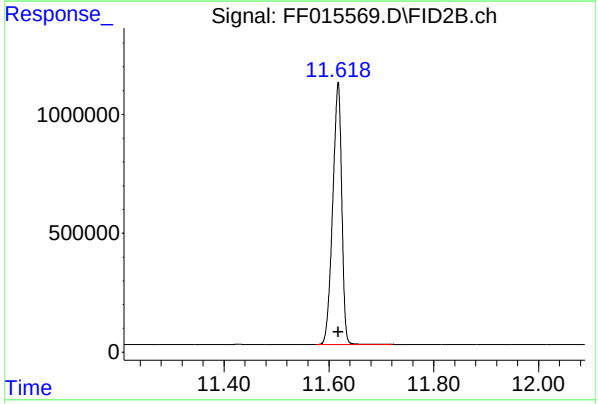
R.T.: 8.565 min
Delta R.T.: 0.000 min
Response: 12111176
Conc: 100.96 ug/ml



#5 N-HEXADECANE

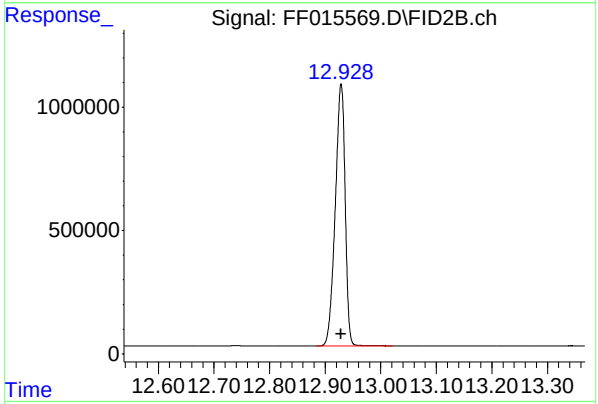
R.T.: 10.174 min
Delta R.T.: 0.000 min
Response: 12535094
Conc: 100.90 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



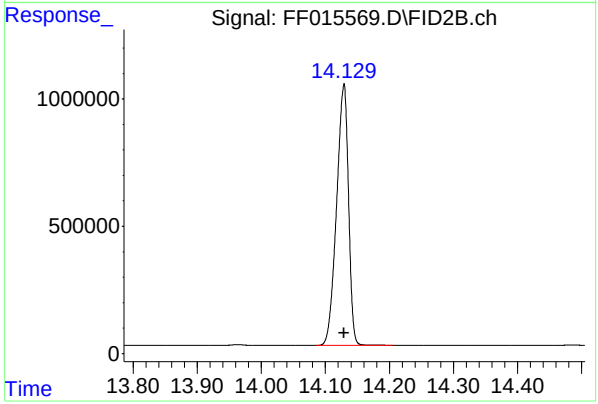
#6 N-OCTADECANE

R.T.: 11.618 min
Delta R.T.: 0.000 min
Response: 13195137
Conc: 100.87 ug/ml



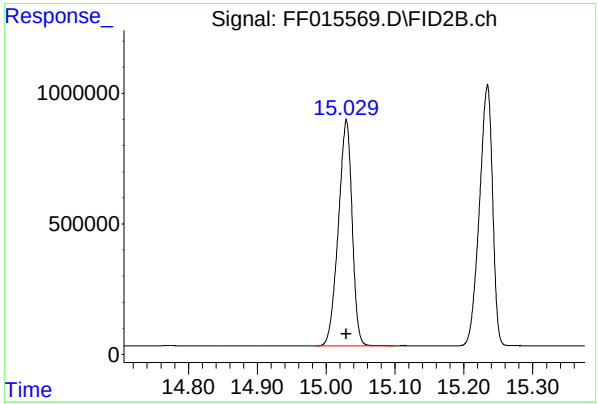
#7 N-EICOSANE

R.T.: 12.929 min
Delta R.T.: 0.000 min
Response: 13135796
Conc: 101.00 ug/ml



#8 N-DOCOSANE

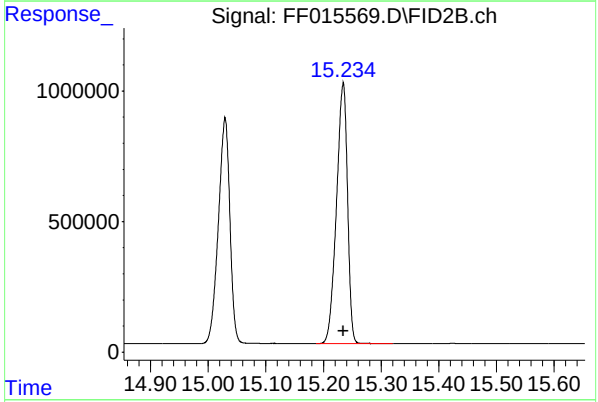
R.T.: 14.129 min
Delta R.T.: 0.000 min
Response: 13164223
Conc: 101.26 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

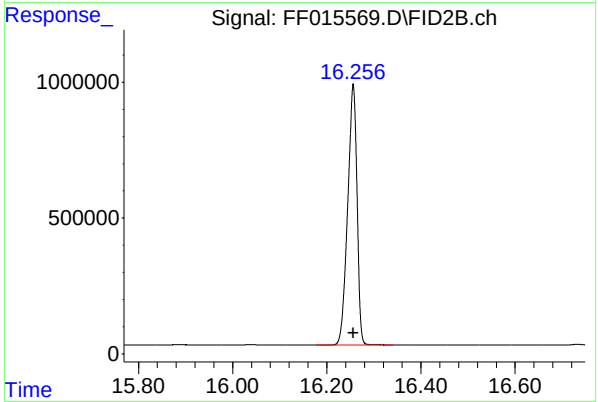
R.T.: 15.030 min
Delta R.T.: 0.000 min
Response: 12027203
Conc: 101.40 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



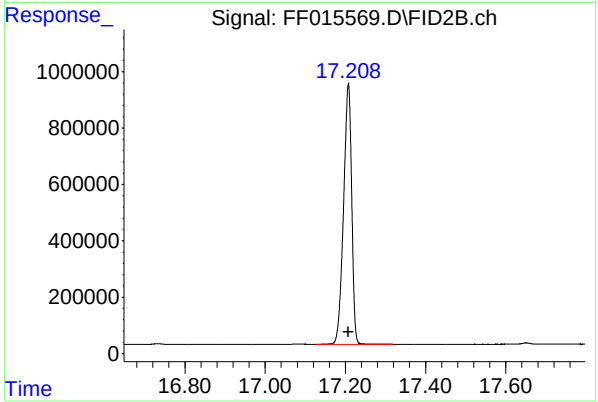
#10 N-TETRACOSANE

R.T.: 15.234 min
Delta R.T.: 0.000 min
Response: 13294271
Conc: 101.47 ug/ml



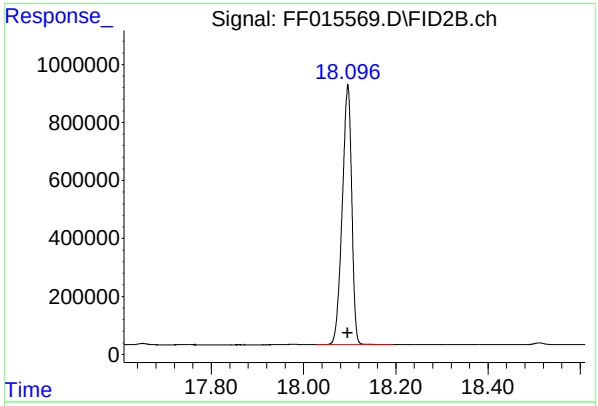
#11 N-HEXACOSANE

R.T.: 16.256 min
Delta R.T.: 0.000 min
Response: 13165048
Conc: 101.92 ug/ml



#12 N-OCTACOSANE

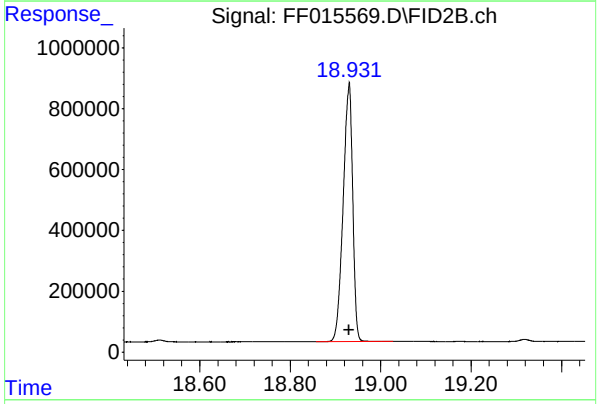
R.T.: 17.208 min
Delta R.T.: 0.000 min
Response: 13016015
Conc: 102.08 ug/ml



#13 N-TRIACONTANE

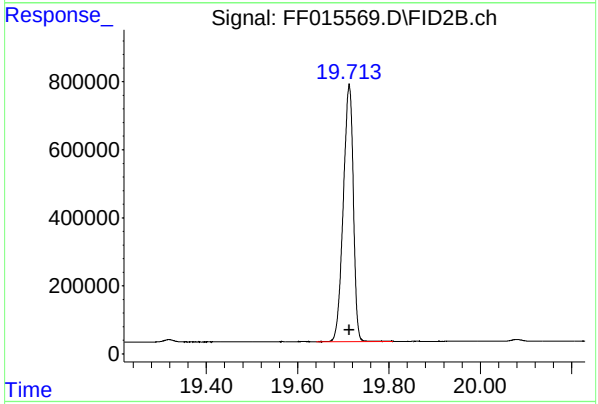
R.T.: 18.096 min
Delta R.T.: 0.000 min
Response: 12794293
Conc: 102.10 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



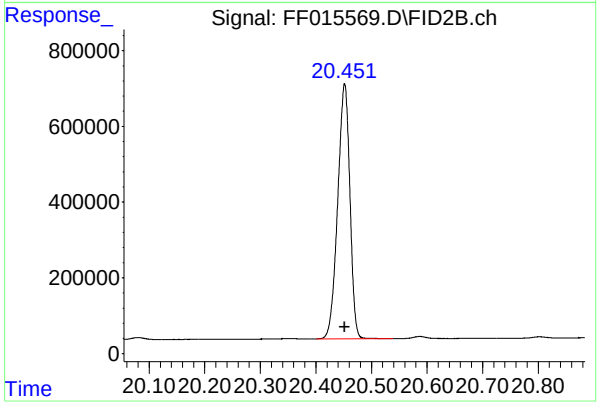
#14 N-DOTRIACONTANE

R.T.: 18.930 min
Delta R.T.: 0.000 min
Response: 12439099
Conc: 102.24 ug/ml



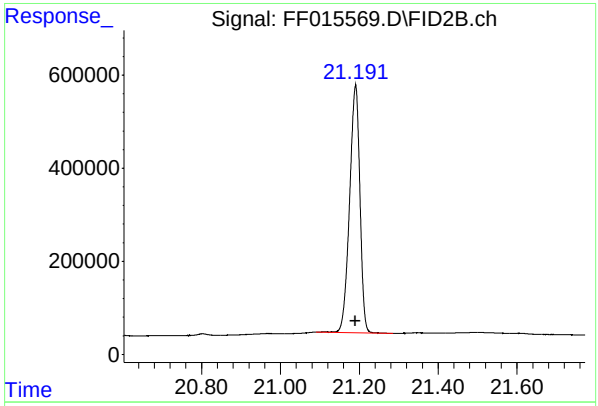
#15 N-TETRATRIACONTANE

R.T.: 19.713 min
Delta R.T.: 0.000 min
Response: 11497810
Conc: 103.01 ug/ml



#16 N-HEXATRIACONTANE

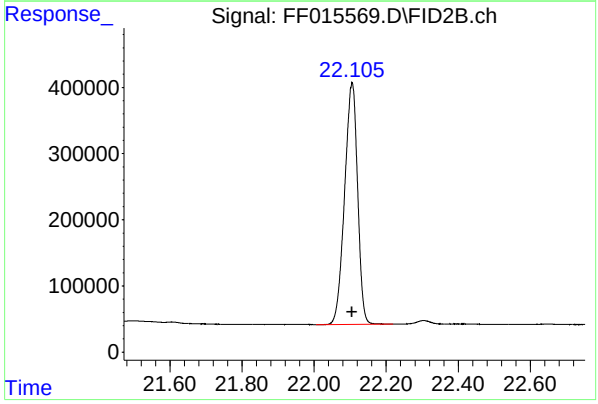
R.T.: 20.452 min
Delta R.T.: 0.000 min
Response: 10252016
Conc: 104.31 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.190 min
Delta R.T.: 0.000 min
Response: 9646276
Conc: 105.46 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.105 min
Delta R.T.: 0.000 min
Response: 9145878
Conc: 105.92 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015569.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 12:17
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.025	1.990	2.144	PB	1048268	11676734	87.83%	5.379%
2	4.568	4.532	4.680	BB	1133279	11739175	88.30%	5.408%
3	6.738	6.694	6.810	BV	1195250	12225907	91.96%	5.632%
4	8.565	8.528	8.667	VB	1087130	12111176	91.10%	5.580%
5	10.174	10.132	10.277	BB	1096218	12535094	94.29%	5.775%
6	11.618	11.575	11.722	BB	1100159	13195137	99.25%	6.079%
7	12.929	12.884	13.022	BB	1062003	13135796	98.81%	6.052%
8	14.129	14.085	14.205	BB	1023974	13164223	99.02%	6.065%
9	15.030	14.985	15.097	BV	864898	12027203	90.47%	5.541%
10	15.234	15.187	15.320	BB	995712	13294271	100.00%	6.125%
11	16.256	16.177	16.340	BB	958655	13165048	99.03%	6.065%
12	17.208	17.127	17.319	BB	922981	13016015	97.91%	5.996%
13	18.096	18.027	18.194	BB	894910	12794293	96.24%	5.894%
14	18.930	18.857	19.027	BB	848321	12439099	93.57%	5.731%
15	19.713	19.640	19.809	BB	752250	11497810	86.49%	5.297%
16	20.452	20.400	20.539	BB	672989	10252016	77.12%	4.723%
17	21.190	21.090	21.285	BV	531677	9646276	72.56%	4.444%
18	22.105	22.005	22.219	BB	366111	9145878	68.80%	4.214%

Sum of corrected areas: 217061149

FF030325.M Tue Mar 04 04:23:24 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015570.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 12:46
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:03:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 13:03:04 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...	15.025	5847200	50.000 ug/ml
	Target Compounds			
1)	N-OCTANE	2.027	5671156	50.000 ug/ml
2)	N-DECANE	4.566	5702171	50.000 ug/ml
3)	N-DODECANE	6.735	5985221	50.000 ug/ml
4)	N-TETRADECANE	8.562	5940614	50.000 ug/ml
5)	N-HEXADECANE	10.170	6155917	50.000 ug/ml
6)	N-OCTADECANE	11.614	6483577	50.000 ug/ml
7)	N-EICOSANE	12.925	6438325	50.000 ug/ml
8)	N-DOCOSANE	14.126	6418470	50.000 ug/ml
10)	N-TETRACOSANE	15.230	6454885	50.000 ug/ml
11)	N-HEXACOSANE	16.251	6334730	50.000 ug/ml
12)	N-OCTACOSANE	17.202	6243181	50.000 ug/ml
13)	N-TRIACONTANE	18.090	6134453	50.000 ug/ml
14)	N-DOTRIACONTANE	18.925	5946670	50.000 ug/ml
15)	N-TETRATRIACONTANE	19.708	5412844	50.000 ug/ml
16)	N-HEXATRIACONTANE	20.448	4702780	50.000 ug/ml
17)	N-OCTATRIACONTANE	21.186	4323982	50.000 ug/ml
18)	N-TETRACONTANE	22.099	4061608	50.000 ug/ml

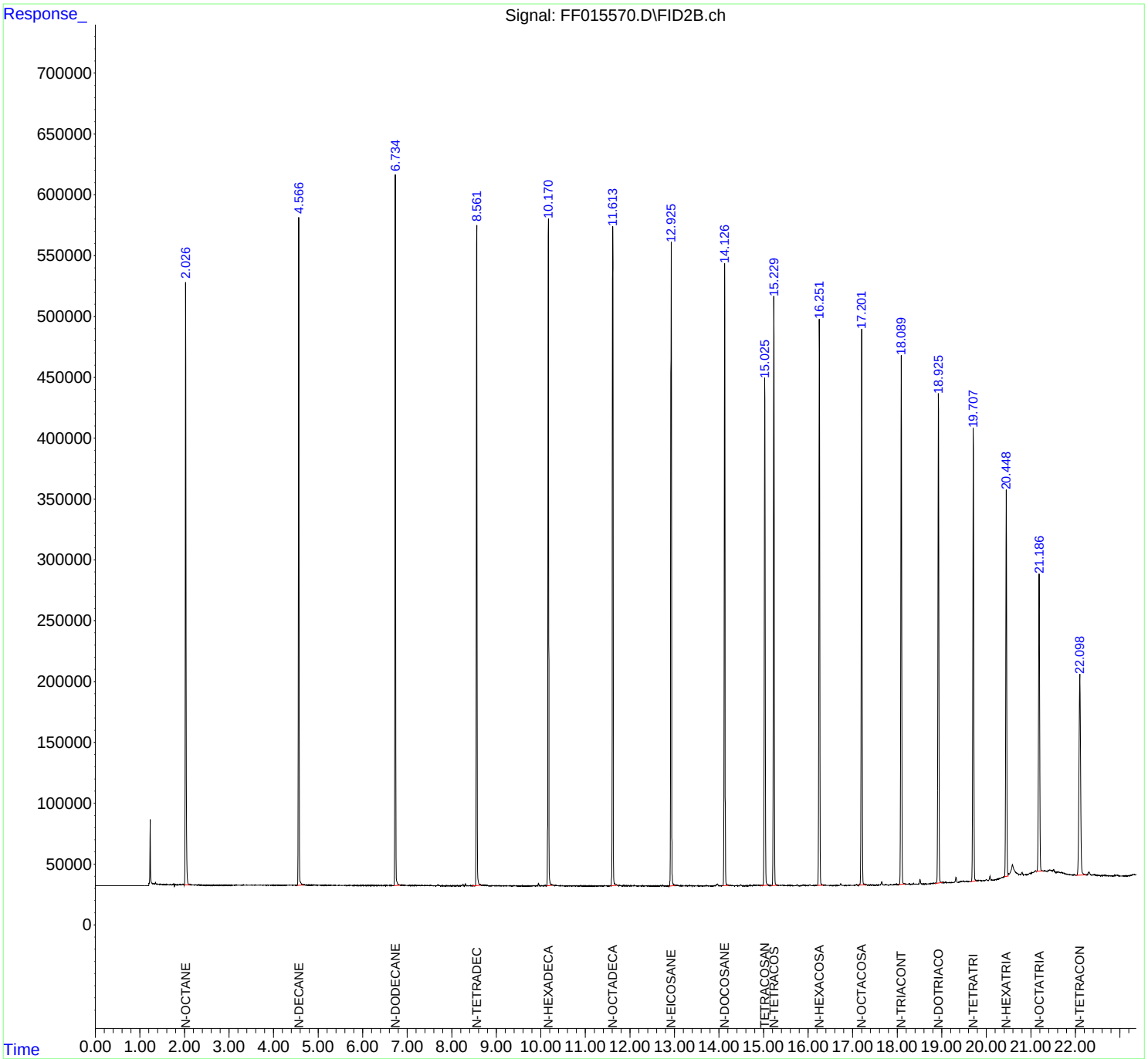
(f)=RT Delta > 1/2 Window (m)=manual int.

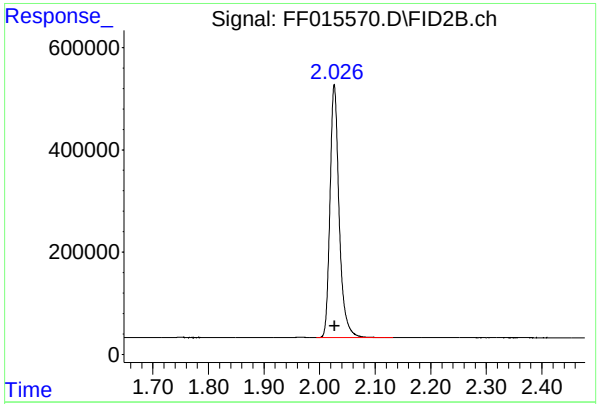
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015570.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 12:46
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:03:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 13:03:04 2025
Response via : Initial Calibration
Integrator: ChemStation

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

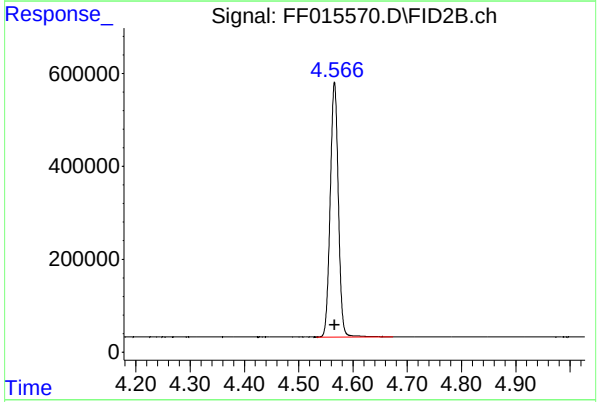




#1 N-OCTANE

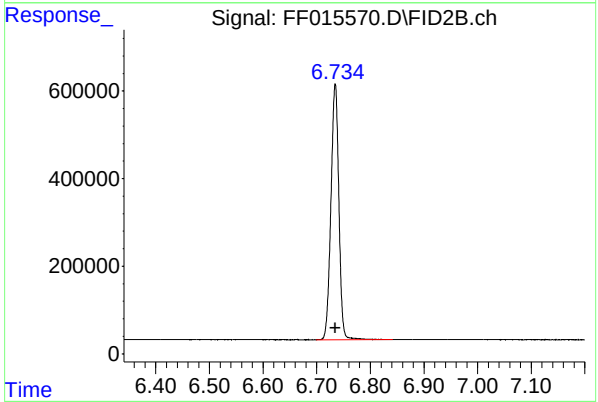
R.T.: 2.027 min
Delta R.T.: 0.000 min
Response: 5671156
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



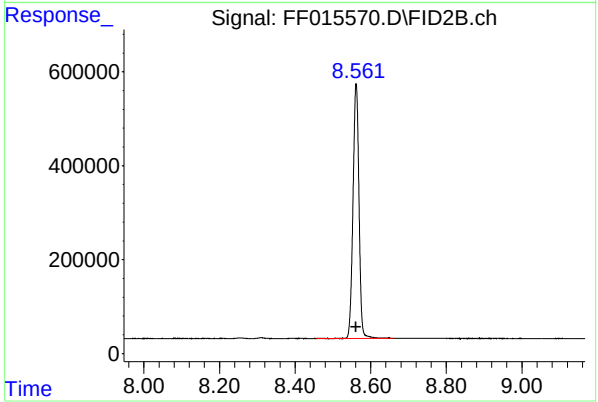
#2 N-DECANE

R.T.: 4.566 min
Delta R.T.: 0.000 min
Response: 5702171
Conc: 50.00 ug/ml



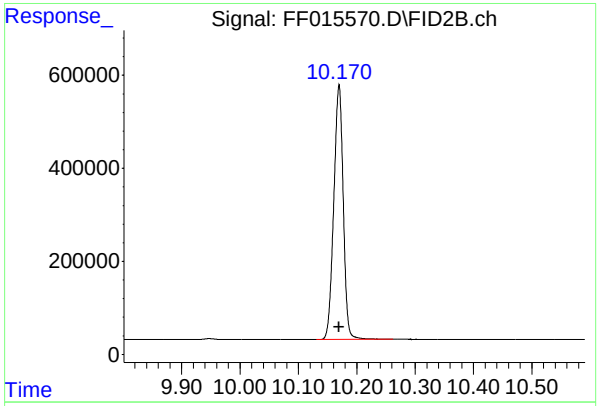
#3 N-DODECANE

R.T.: 6.735 min
Delta R.T.: 0.000 min
Response: 5985221
Conc: 50.00 ug/ml



#4 N-TETRADECANE

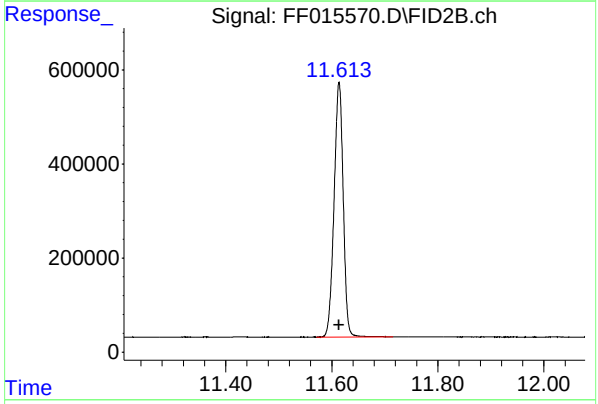
R.T.: 8.562 min
Delta R.T.: 0.000 min
Response: 5940614
Conc: 50.00 ug/ml



#5 N-HEXADECANE

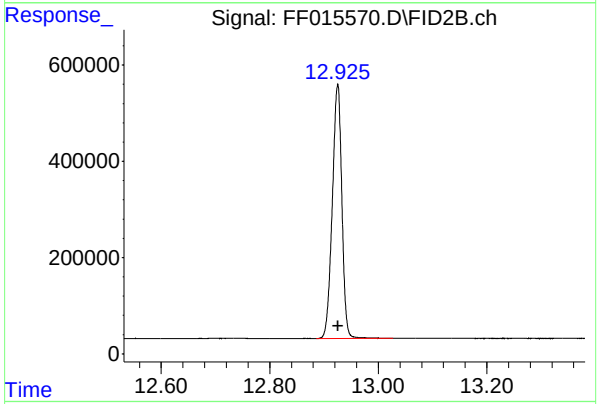
R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 6155917
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



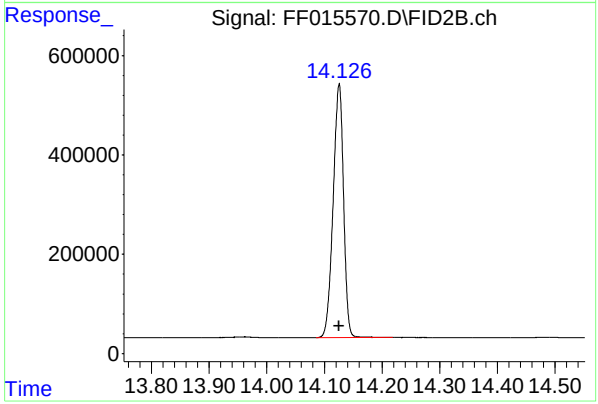
#6 N-OCTADECANE

R.T.: 11.614 min
Delta R.T.: 0.000 min
Response: 6483577
Conc: 50.00 ug/ml



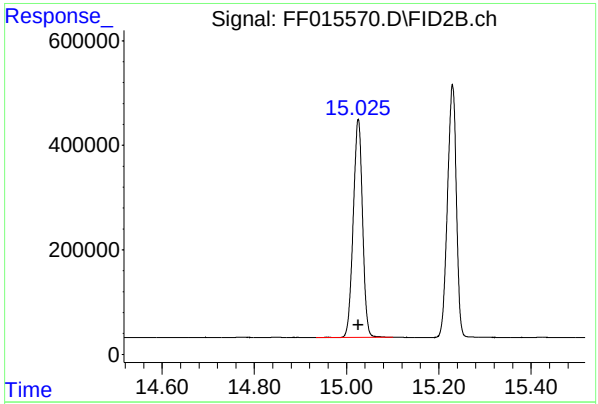
#7 N-EICOSANE

R.T.: 12.925 min
Delta R.T.: 0.000 min
Response: 6438325
Conc: 50.00 ug/ml



#8 N-DOCOSANE

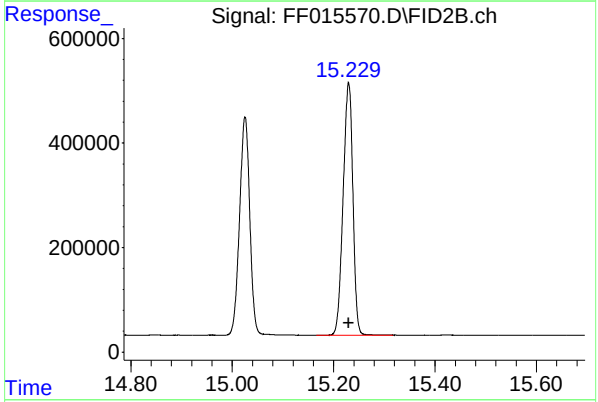
R.T.: 14.126 min
Delta R.T.: 0.000 min
Response: 6418470
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

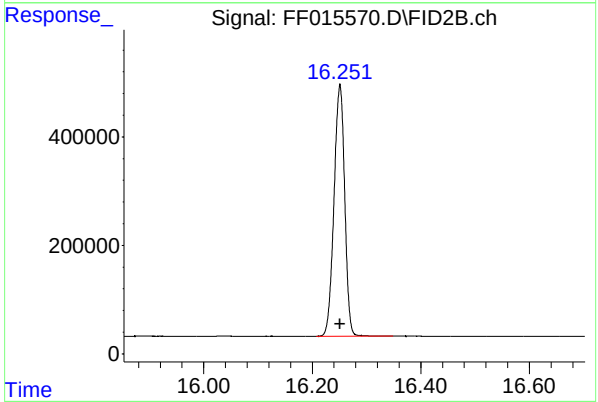
R.T.: 15.025 min
Delta R.T.: 0.000 min
Response: 5847200
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



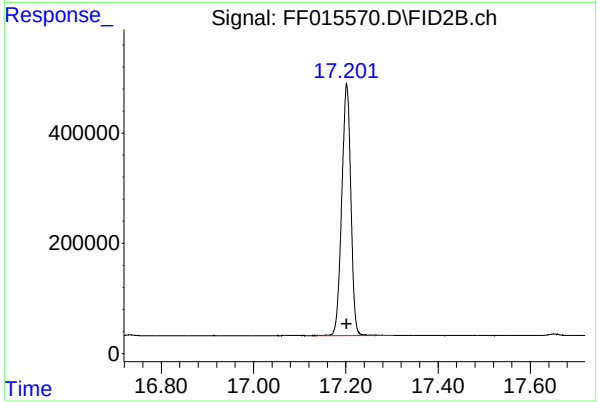
#10 N-TETRACOSANE

R.T.: 15.230 min
Delta R.T.: 0.000 min
Response: 6454885
Conc: 50.00 ug/ml



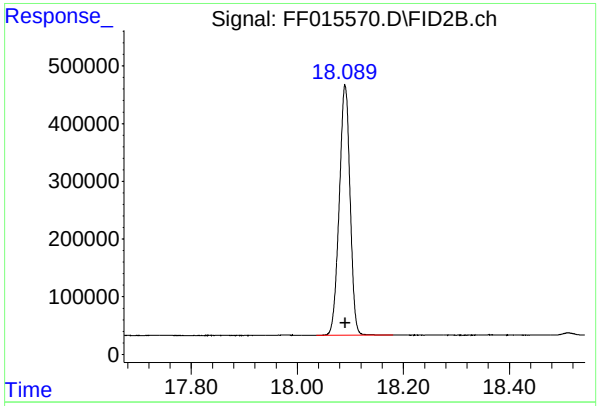
#11 N-HEXACOSANE

R.T.: 16.251 min
Delta R.T.: 0.000 min
Response: 6334730
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

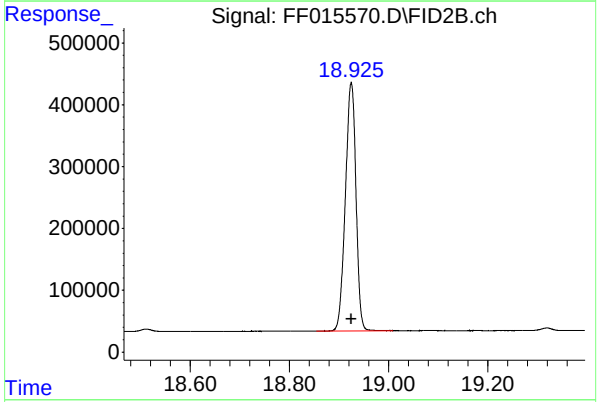
R.T.: 17.202 min
Delta R.T.: 0.000 min
Response: 6243181
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

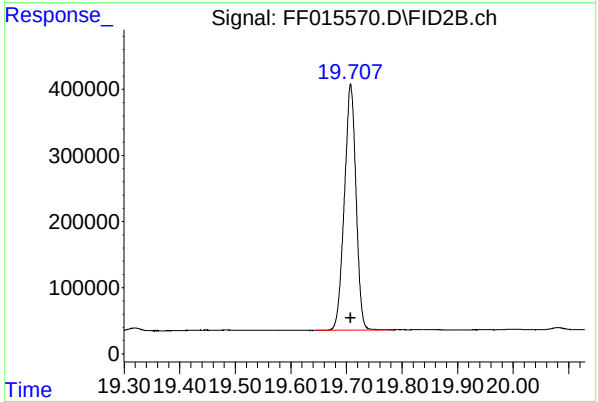
R.T.: 18.090 min
Delta R.T.: 0.000 min
Response: 6134453
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



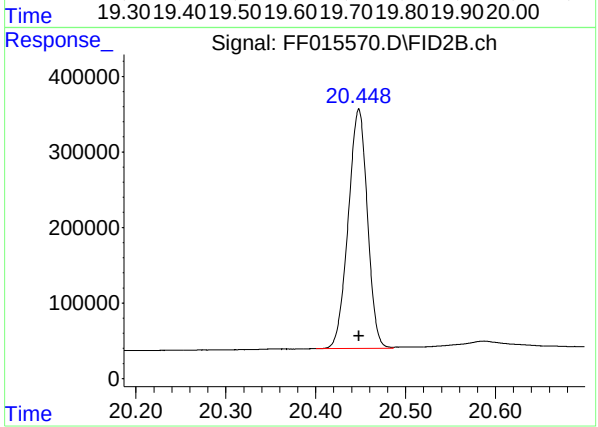
#14 N-DOTRIACONTANE

R.T.: 18.925 min
Delta R.T.: 0.000 min
Response: 5946670
Conc: 50.00 ug/ml



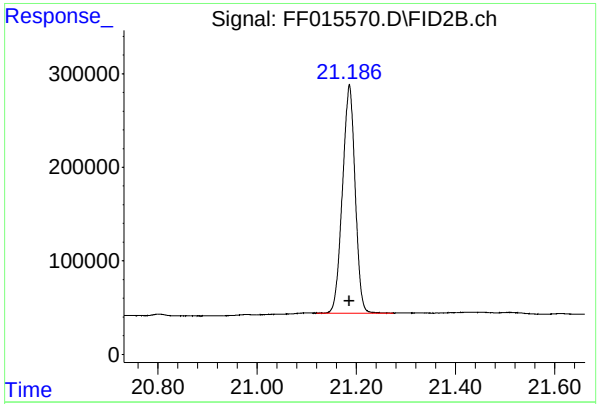
#15 N-TETRATRIACONTANE

R.T.: 19.708 min
Delta R.T.: 0.000 min
Response: 5412844
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

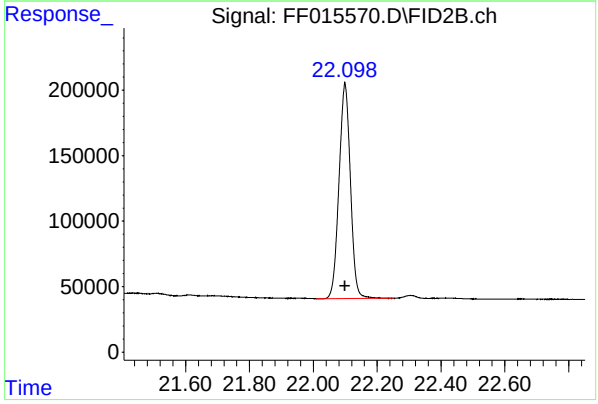
R.T.: 20.448 min
Delta R.T.: 0.000 min
Response: 4702780
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.186 min
Delta R.T.: 0.000 min
Response: 4323982
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.099 min
Delta R.T.: 0.000 min
Response: 4061608
Conc: 50.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015570.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 12:46
Sample : 50 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.027	1.994	2.132	BB	494998	5671156	87.47%	5.440%
2	4.566	4.532	4.674	BB	548924	5702171	87.95%	5.469%
3	6.735	6.699	6.842	BB	584997	5985221	92.31%	5.741%
4	8.562	8.455	8.659	BB	541316	5940614	91.63%	5.698%
5	10.170	10.130	10.262	BB	548708	6155917	94.95%	5.905%
6	11.614	11.570	11.715	BB	541552	6483577	100.00%	6.219%
7	12.925	12.885	13.027	BB	528542	6438325	99.30%	6.175%
8	14.126	14.085	14.219	BB	509811	6418470	99.00%	6.156%
9	15.025	14.934	15.100	BB	417289	5847200	90.18%	5.608%
10	15.230	15.165	15.317	BB	481471	6454885	99.56%	6.191%
11	16.251	16.207	16.349	BB	463062	6334730	97.70%	6.076%
12	17.202	17.135	17.302	BB	455879	6243181	96.29%	5.988%
13	18.090	18.035	18.180	BB	433010	6134453	94.62%	5.884%
14	18.925	18.854	19.009	BB	402018	5946670	91.72%	5.704%
15	19.708	19.645	19.784	BB	371687	5412844	83.49%	5.192%
16	20.448	20.400	20.486	BV	317179	4702780	72.53%	4.511%
17	21.186	21.119	21.274	BB	244169	4323982	66.69%	4.147%
18	22.099	22.009	22.250	BBA	165124	4061608	62.64%	3.896%

Sum of corrected areas: 104257783

FF030325.M Tue Mar 04 04:23:51 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015571.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 13:16
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:45:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 13:45:38 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...	15.022	2276113	19.453 ug/ml
	Target Compounds			
1)	N-OCTANE	2.027	2209581	19.458 ug/ml
2)	N-DECANE	4.565	2189492	19.267 ug/ml
3)	N-DODECANE	6.733	2285013	19.244 ug/ml
4)	N-TETRADECANE	8.560	2265107	19.240 ug/ml
5)	N-HEXADECANE	10.168	2331444	19.160 ug/ml
6)	N-OCTADECANE	11.611	2470654	19.244 ug/ml
7)	N-EICOSANE	12.922	2473598	19.335 ug/ml
8)	N-DOCOSANE	14.122	2481909	19.385 ug/ml
10)	N-TETRACOSANE	15.228	2510681	19.434 ug/ml
11)	N-HEXACOSANE	16.249	2468858	19.400 ug/ml
12)	N-OCTACOSANE	17.200	2448984	19.464 ug/ml
13)	N-TRIACONTANE	18.088	2434553	19.615 ug/ml
14)	N-DOTRIACONTANE	18.923	2397994	19.806 ug/ml
15)	N-TETRATRIACONTANE	19.707	2280498	20.286 ug/ml
16)	N-HEXATRIACONTANE	20.447	2113165	20.975 ug/ml
17)	N-OCTATRIACONTANE	21.184	2046445	21.522 ug/ml
18)	N-TETRACONTANE	22.098	1971314	21.802 ug/ml

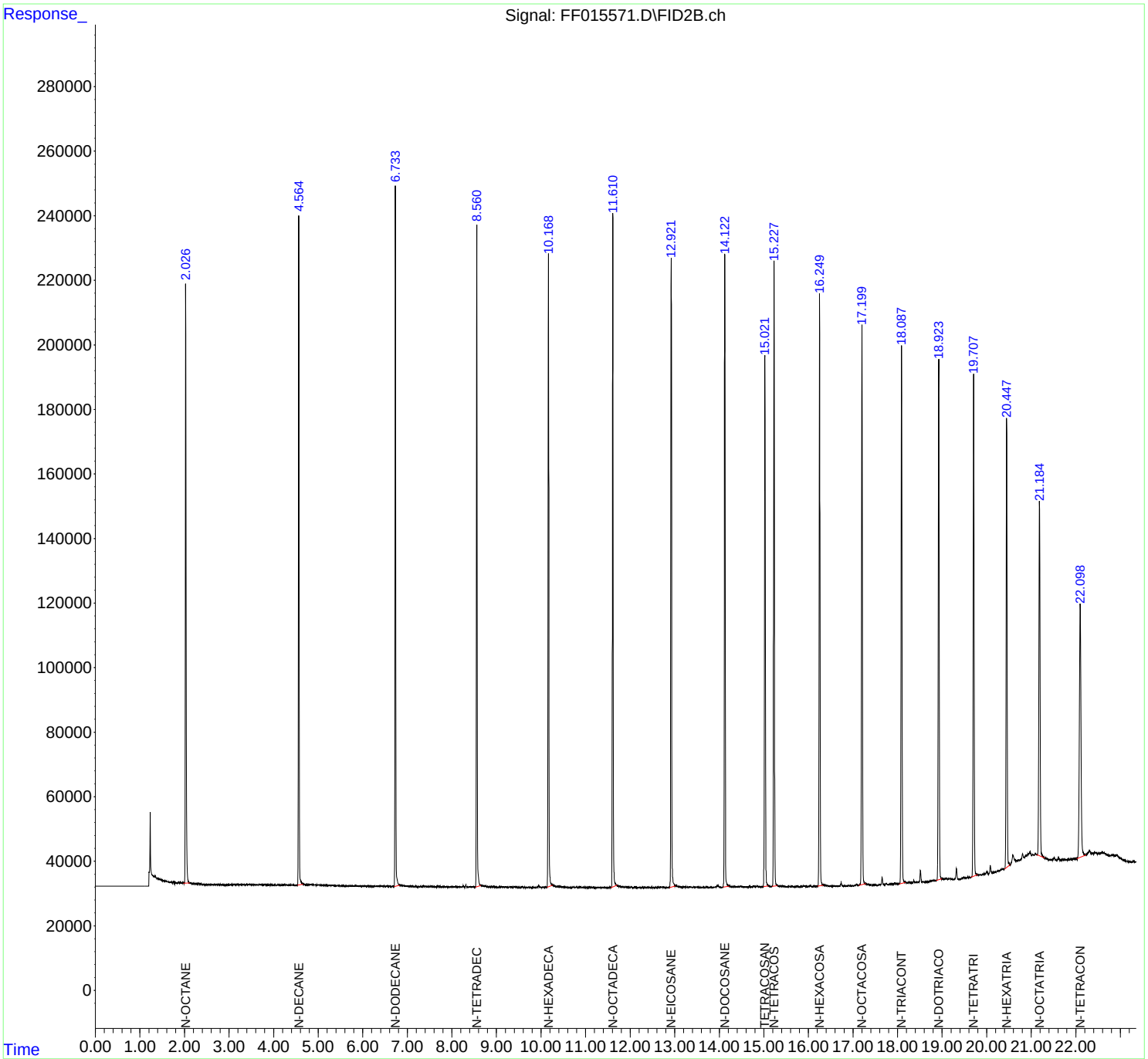
(f)=RT Delta > 1/2 Window (m)=manual int.

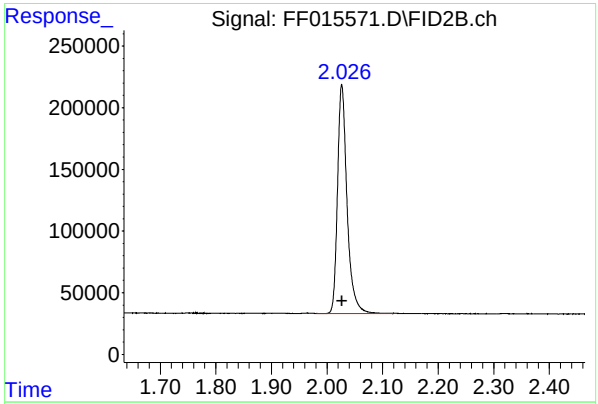
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015571.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 13:16
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:45:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 13:45:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

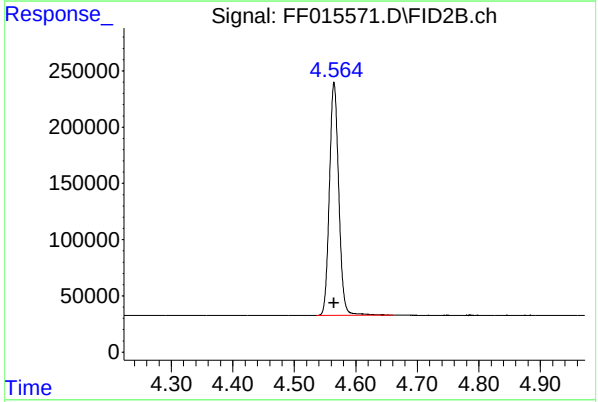




#1 N-OCTANE

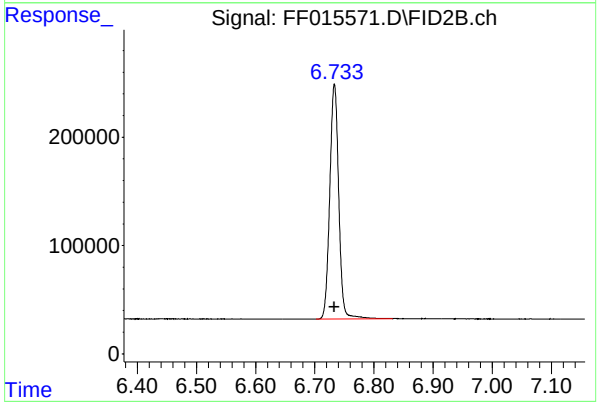
R.T.: 2.027 min
Delta R.T.: 0.000 min
Response: 2209581
Conc: 19.46 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



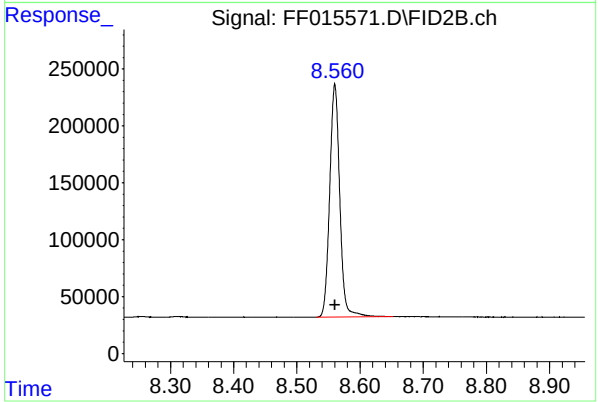
#2 N-DECANE

R.T.: 4.565 min
Delta R.T.: 0.000 min
Response: 2189492
Conc: 19.27 ug/ml



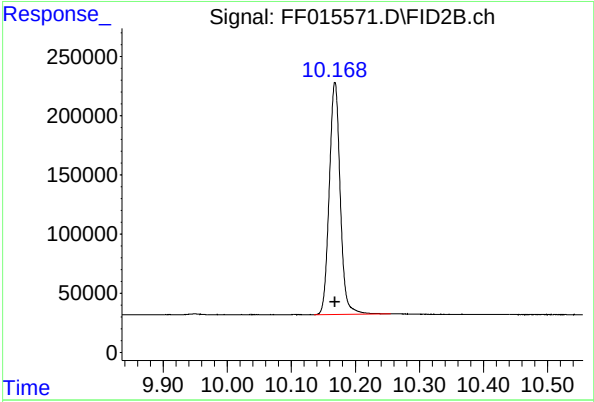
#3 N-DODECANE

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 2285013
Conc: 19.24 ug/ml



#4 N-TETRADECANE

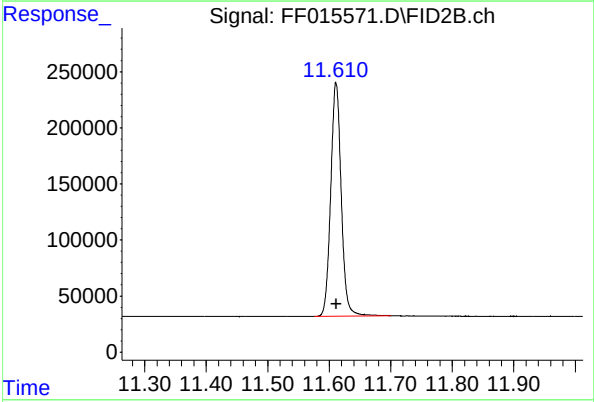
R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 2265107
Conc: 19.24 ug/ml



#5 N-HEXADECANE

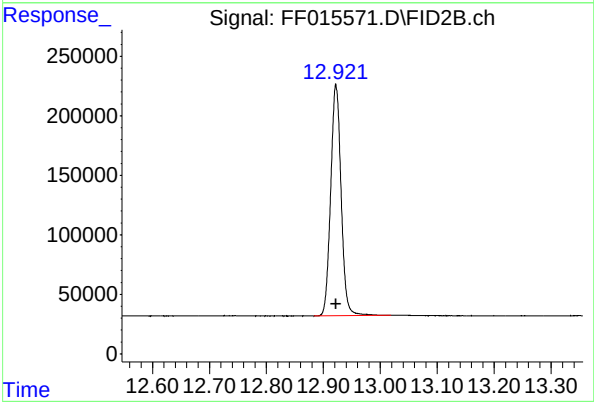
R.T.: 10.168 min
Delta R.T.: 0.000 min
Response: 2331444
Conc: 19.16 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



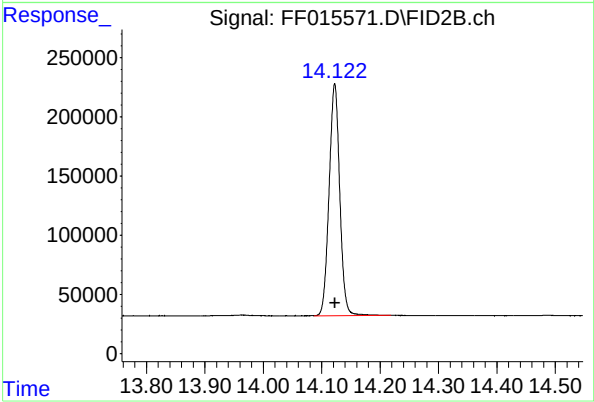
#6 N-OCTADECANE

R.T.: 11.611 min
Delta R.T.: 0.000 min
Response: 2470654
Conc: 19.24 ug/ml



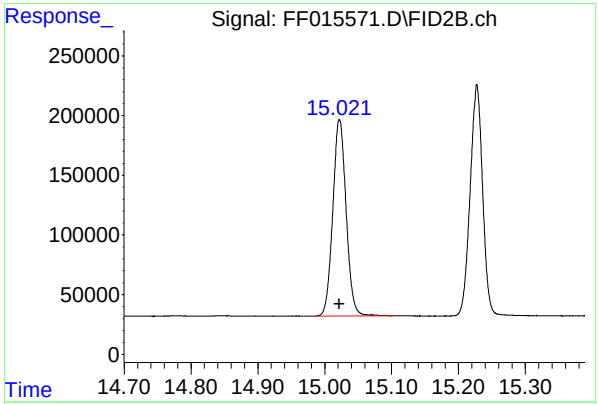
#7 N-EICOSANE

R.T.: 12.922 min
Delta R.T.: 0.000 min
Response: 2473598
Conc: 19.33 ug/ml



#8 N-DOCOSANE

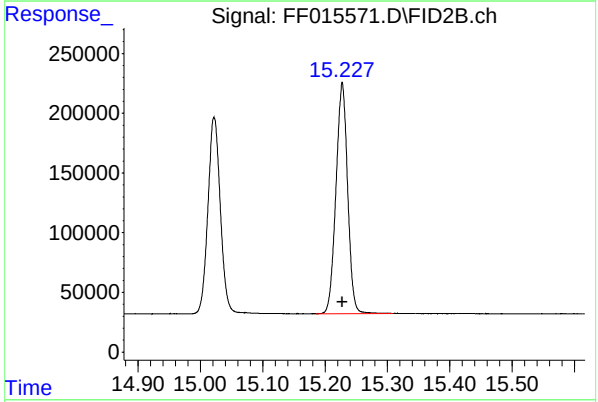
R.T.: 14.122 min
Delta R.T.: 0.000 min
Response: 2481909
Conc: 19.38 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

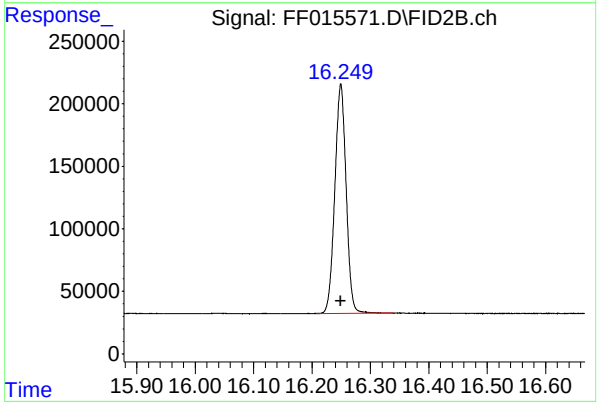
R.T.: 15.022 min
Delta R.T.: 0.000 min
Response: 2276113
Conc: 19.45 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



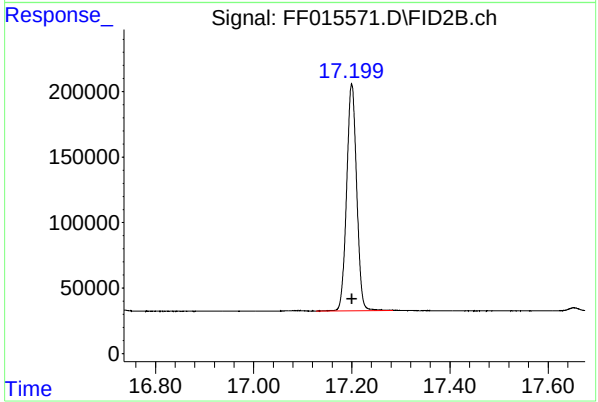
#10 N-TETRACOSANE

R.T.: 15.228 min
Delta R.T.: 0.000 min
Response: 2510681
Conc: 19.43 ug/ml



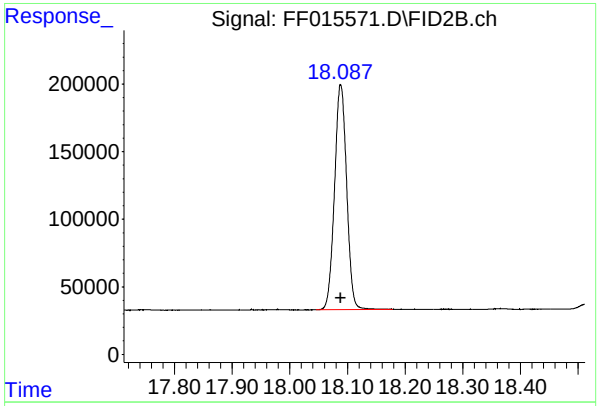
#11 N-HEXACOSANE

R.T.: 16.249 min
Delta R.T.: 0.000 min
Response: 2468858
Conc: 19.40 ug/ml



#12 N-OCTACOSANE

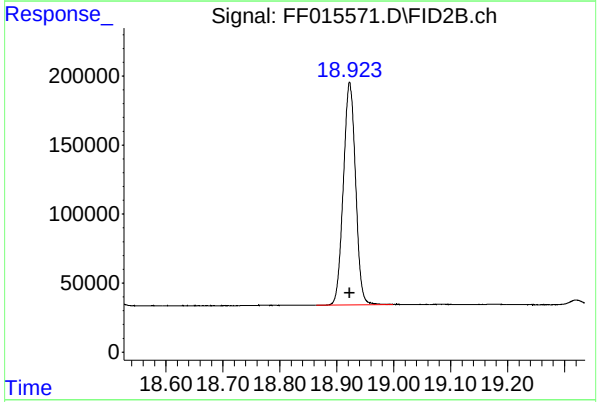
R.T.: 17.200 min
Delta R.T.: 0.000 min
Response: 2448984
Conc: 19.46 ug/ml



#13 N-TRIACONTANE

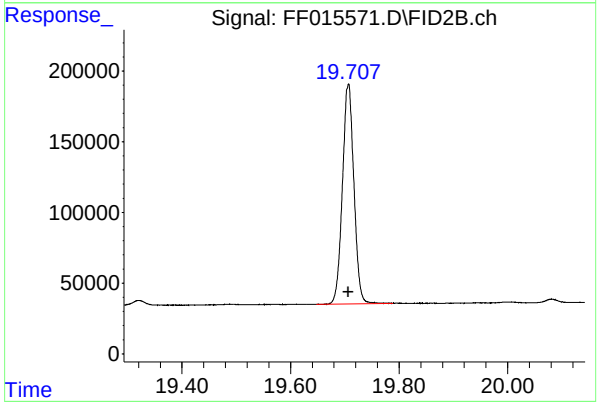
R.T.: 18.088 min
Delta R.T.: 0.000 min
Response: 2434553
Conc: 19.61 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



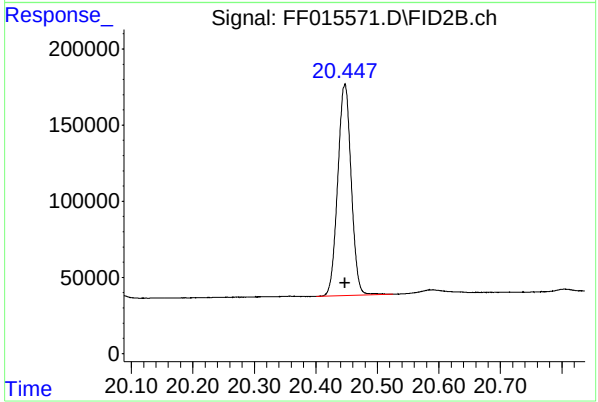
#14 N-DOTRIACONTANE

R.T.: 18.923 min
Delta R.T.: 0.000 min
Response: 2397994
Conc: 19.81 ug/ml



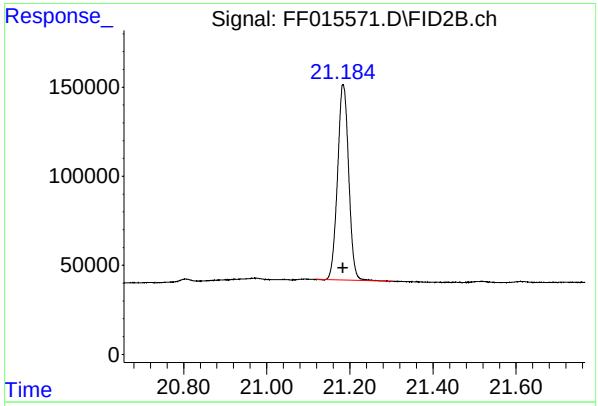
#15 N-TETRATRIACONTANE

R.T.: 19.707 min
Delta R.T.: 0.000 min
Response: 2280498
Conc: 20.29 ug/ml



#16 N-HEXATRIACONTANE

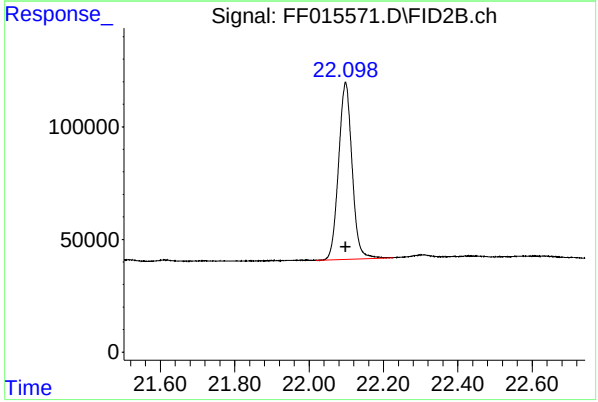
R.T.: 20.447 min
Delta R.T.: 0.000 min
Response: 2113165
Conc: 20.98 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.184 min
Delta R.T.: 0.000 mi
Response: 2046445
Conc: 21.52 ug/m

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.098 min
Delta R.T.: 0.000 min
Response: 1971314
Conc: 21.80 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015571.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 13:16
Sample : 20 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.027	1.980	2.119	BB	185472	2209581	88.01%	5.304%
2	4.565	4.535	4.660	BB	206860	2189492	87.21%	5.256%
3	6.733	6.702	6.832	BB	216744	2285013	91.01%	5.486%
4	8.560	8.530	8.652	BB	204647	2265107	90.22%	5.438%
5	10.168	10.135	10.255	BB	196462	2331444	92.86%	5.597%
6	11.611	11.575	11.700	BB	208759	2470654	98.41%	5.931%
7	12.922	12.884	13.019	BB	194215	2473598	98.52%	5.938%
8	14.122	14.087	14.219	BB	196032	2481909	98.85%	5.958%
9	15.022	14.987	15.102	BB	164197	2276113	90.66%	5.464%
10	15.228	15.185	15.309	BB	193895	2510681	100.00%	6.027%
11	16.249	16.207	16.339	BB	183451	2468858	98.33%	5.927%
12	17.200	17.127	17.284	BB	172704	2448984	97.54%	5.879%
13	18.088	18.045	18.179	BB	166131	2434553	96.97%	5.845%
14	18.923	18.864	18.999	BB	161432	2397994	95.51%	5.757%
15	19.707	19.647	19.789	BB	155862	2280498	90.83%	5.475%
16	20.447	20.400	20.525	BB	138557	2113165	84.17%	5.073%
17	21.184	21.119	21.304	BB	109666	2046445	81.51%	4.913%
18	22.098	22.019	22.225	BB	78570	1971314	78.52%	4.732%

Sum of corrected areas: 41655402

FF030325.M Tue Mar 04 04:24:28 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015572.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 13:45
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 14:07:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:07:40 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...	15.022	1215356	10.287 ug/ml
	Target Compounds			
1)	N-OCTANE	2.028	1186476	10.333 ug/ml
2)	N-DECANE	4.565	1155455	10.125 ug/ml
3)	N-DODECANE	6.733	1200934	10.085 ug/ml
4)	N-TETRADECANE	8.560	1186056	10.056 ug/ml
5)	N-HEXADECANE	10.168	1212784	9.975 ug/ml
6)	N-OCTADECANE	11.611	1278306	9.968 ug/ml
7)	N-EICOSANE	12.922	1298656	10.113 ug/ml
8)	N-DOCOSANE	14.122	1309308	10.169 ug/ml
10)	N-TETRACOSANE	15.227	1333273	10.238 ug/ml
11)	N-HEXACOSANE	16.249	1312594	10.234 ug/ml
12)	N-OCTACOSANE	17.199	1298325	10.237 ug/ml
13)	N-TRIACONTANE	18.088	1313290	10.429 ug/ml
14)	N-DOTRIACONTANE	18.921	1286608	10.463 ug/ml
15)	N-TETRATRIACONTANE	19.705	1179855	10.367 ug/ml
16)	N-HEXATRIACONTANE	20.447	1026236	10.139 ug/ml
17)	N-OCTATRIACONTANE	21.185	935872	9.881 ug/ml
18)	N-TETRACONTANE	22.098	830449	9.376 ug/ml

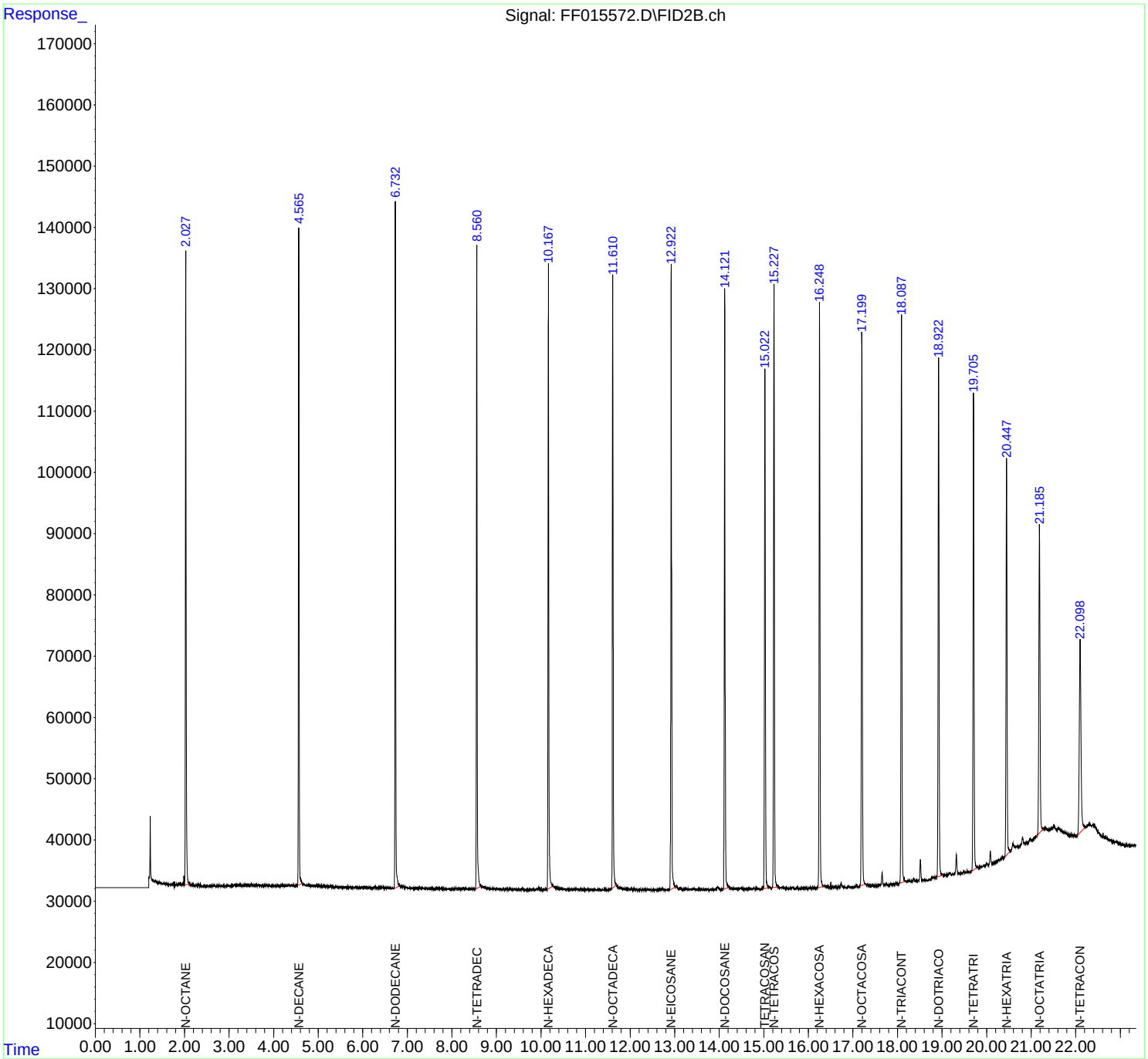
(f)=RT Delta > 1/2 Window (m)=manual int.

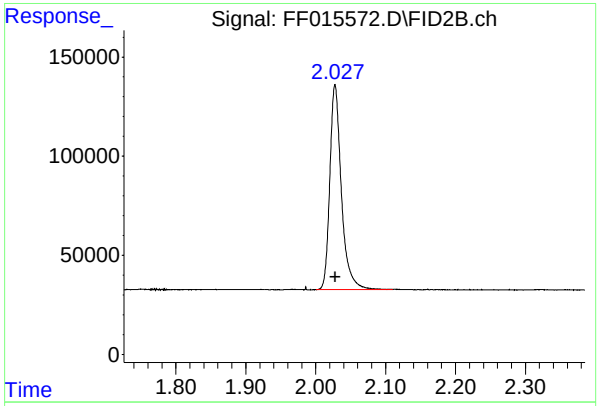
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015572.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 13:45
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 14:07:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:07:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

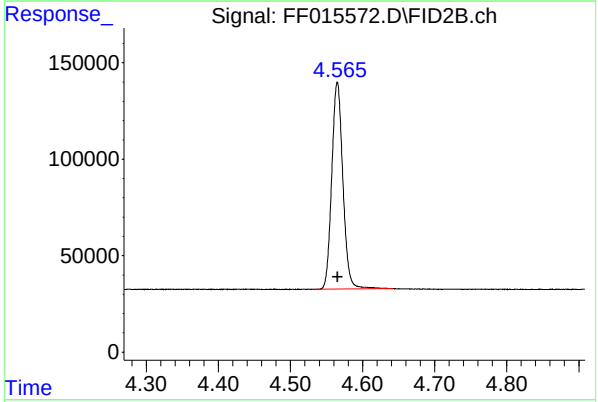




#1 N-OCTANE

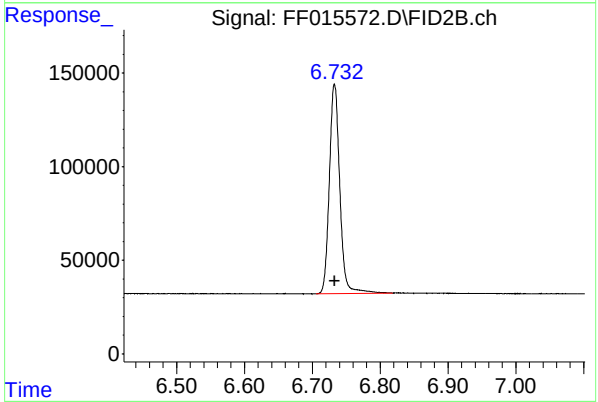
R.T.: 2.028 min
Delta R.T.: 0.000 min
Response: 1186476
Conc: 10.33 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



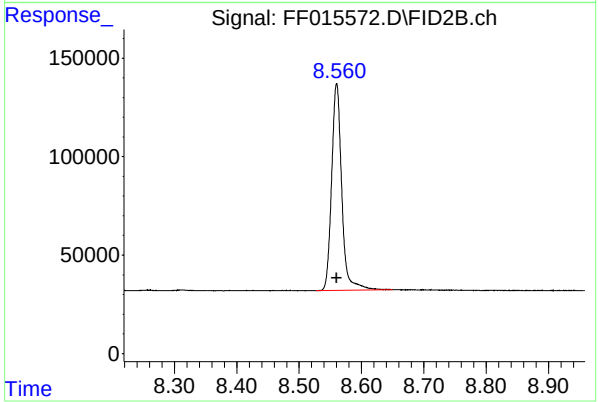
#2 N-DECANE

R.T.: 4.565 min
Delta R.T.: 0.000 min
Response: 1155455
Conc: 10.13 ug/ml



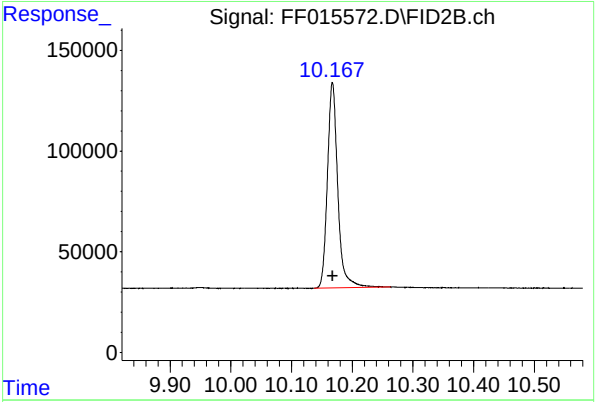
#3 N-DODECANE

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 1200934
Conc: 10.09 ug/ml



#4 N-TETRADECANE

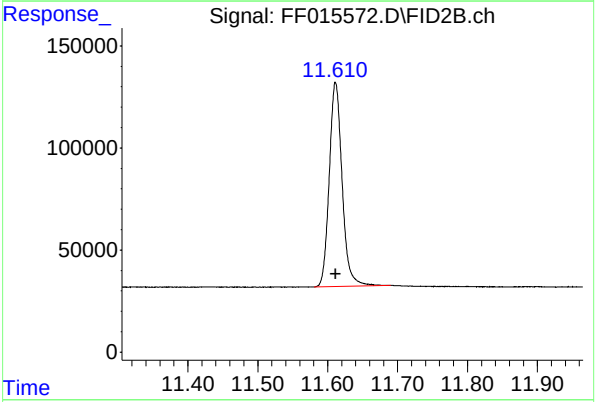
R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 1186056
Conc: 10.06 ug/ml



#5 N-HEXADECANE

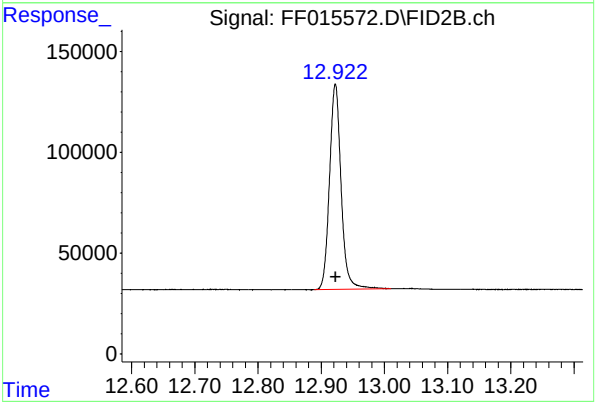
R.T.: 10.168 min
Delta R.T.: 0.000 min
Response: 1212784
Conc: 9.98 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



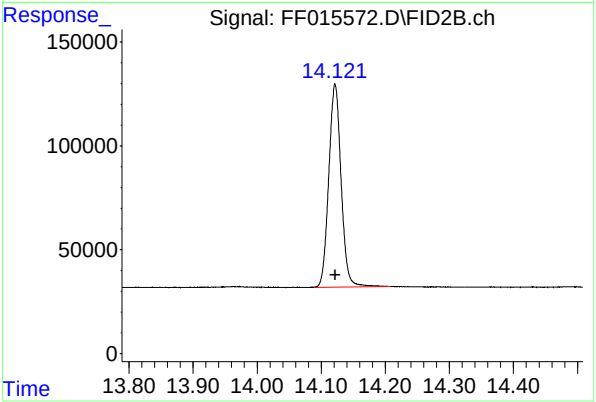
#6 N-OCTADECANE

R.T.: 11.611 min
Delta R.T.: 0.000 min
Response: 1278306
Conc: 9.97 ug/ml



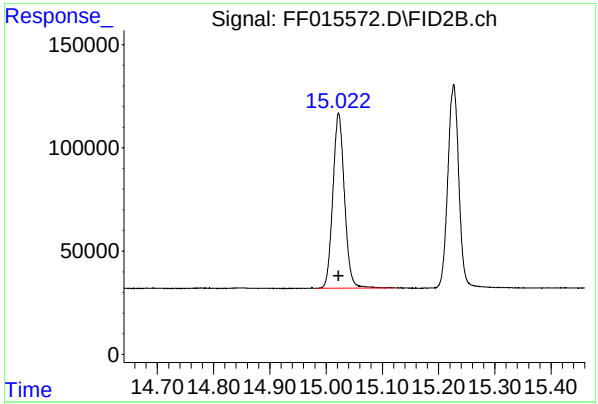
#7 N-EICOSANE

R.T.: 12.922 min
Delta R.T.: 0.000 min
Response: 1298656
Conc: 10.11 ug/ml



#8 N-DOCOSANE

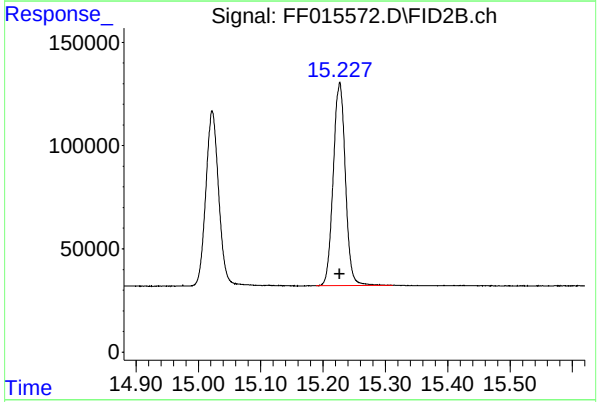
R.T.: 14.122 min
Delta R.T.: 0.000 min
Response: 1309308
Conc: 10.17 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

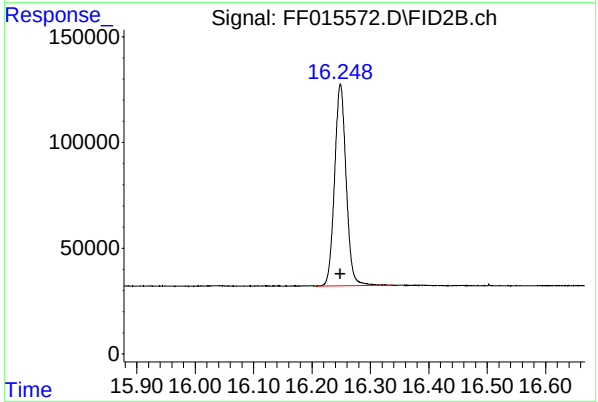
R.T.: 15.022 min
Delta R.T.: 0.000 min
Response: 1215356
Conc: 10.29 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



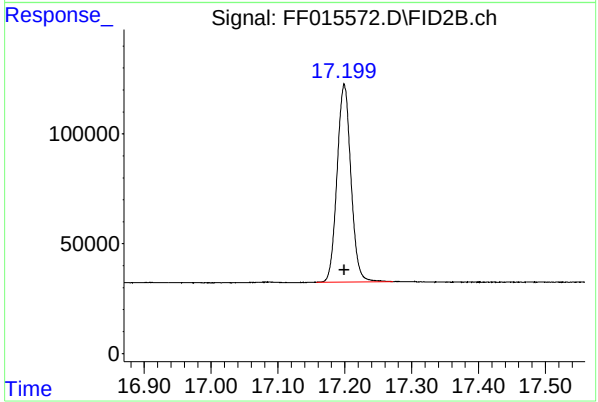
#10 N-TETRACOSANE

R.T.: 15.227 min
Delta R.T.: 0.000 min
Response: 1333273
Conc: 10.24 ug/ml



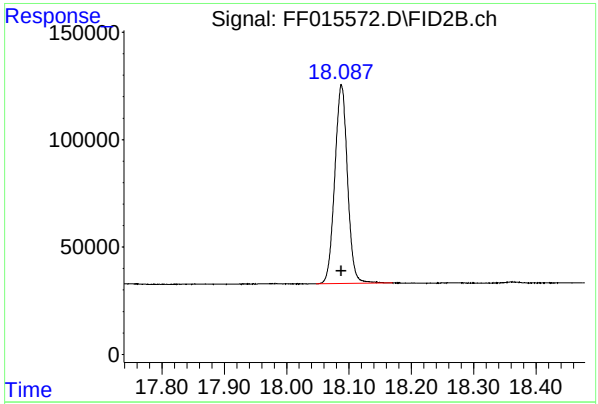
#11 N-HEXACOSANE

R.T.: 16.249 min
Delta R.T.: 0.000 min
Response: 1312594
Conc: 10.23 ug/ml



#12 N-OCTACOSANE

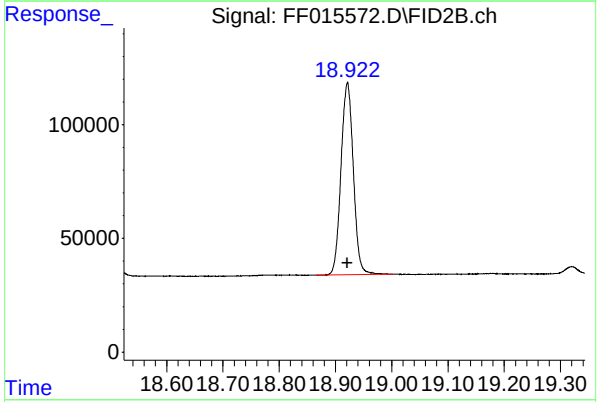
R.T.: 17.199 min
Delta R.T.: 0.000 min
Response: 1298325
Conc: 10.24 ug/ml



#13 N-TRIACONTANE

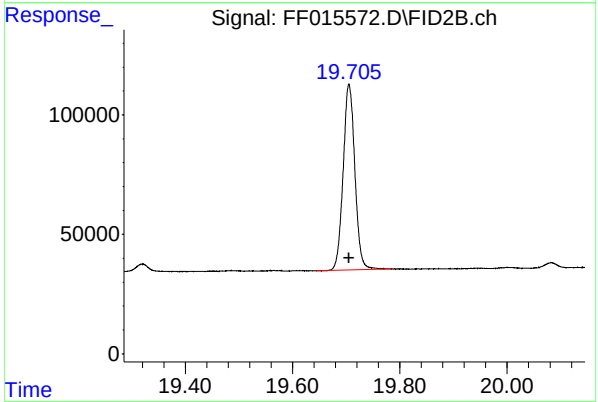
R.T.: 18.088 min
Delta R.T.: 0.000 min
Response: 1313290
Conc: 10.43 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



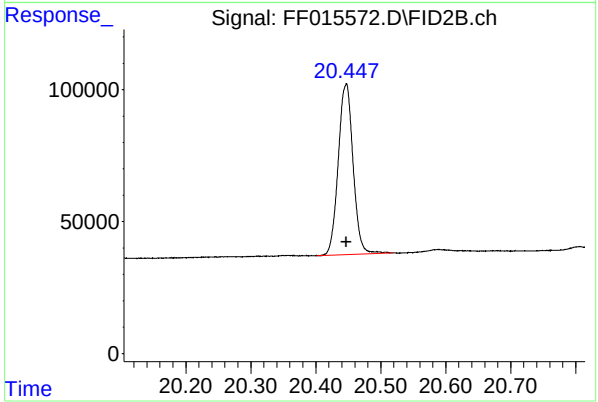
#14 N-DOTRIACONTANE

R.T.: 18.921 min
Delta R.T.: 0.000 min
Response: 1286608
Conc: 10.46 ug/ml



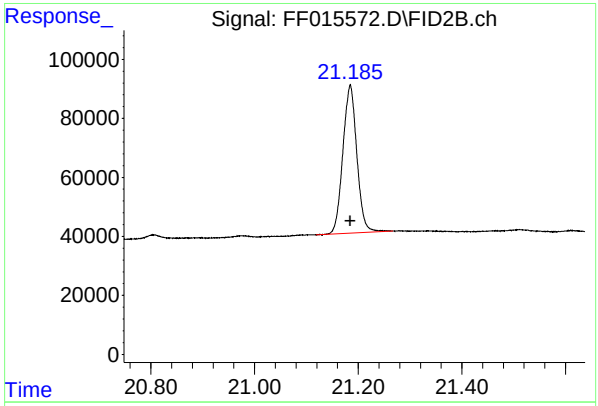
#15 N-TETRATRIACONTANE

R.T.: 19.705 min
Delta R.T.: 0.000 min
Response: 1179855
Conc: 10.37 ug/ml



#16 N-HEXATRIACONTANE

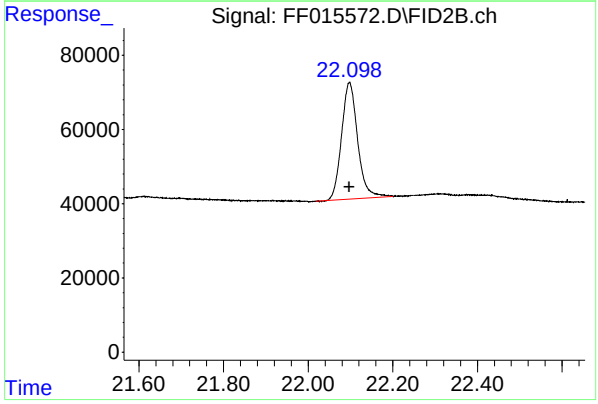
R.T.: 20.447 min
Delta R.T.: 0.000 min
Response: 1026236
Conc: 10.14 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.185 min
Delta R.T.: 0.000 min
Response: 935872
Conc: 9.88 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.098 min
Delta R.T.: 0.000 min
Response: 830449
Conc: 9.38 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015572.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 13:45
Sample : 10 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.028	2.000	2.110	BB	103392	1186476	88.99%	5.503%
2	4.565	4.535	4.642	BB	107425	1155455	86.66%	5.359%
3	6.733	6.705	6.819	BB	112037	1200934	90.07%	5.570%
4	8.560	8.527	8.650	BB	105094	1186056	88.96%	5.501%
5	10.168	10.137	10.264	BB	102169	1212784	90.96%	5.625%
6	11.611	11.580	11.690	BB	99782	1278306	95.88%	5.929%
7	12.922	12.889	13.010	BB	101986	1298656	97.40%	6.023%
8	14.122	14.089	14.209	BB	97649	1309308	98.20%	6.073%
9	15.022	14.982	15.119	BB	84818	1215356	91.16%	5.637%
10	15.227	15.189	15.312	BB	98619	1333273	100.00%	6.184%
11	16.249	16.207	16.339	BB	95513	1312594	98.45%	6.088%
12	17.199	17.157	17.272	BB	89974	1298325	97.38%	6.022%
13	18.088	18.047	18.170	BB	91938	1313290	98.50%	6.091%
14	18.921	18.865	19.002	BB	84820	1286608	96.50%	5.968%
15	19.705	19.644	19.787	BB	77879	1179855	88.49%	5.472%
16	20.447	20.400	20.519	BB	64765	1026236	76.97%	4.760%
17	21.185	21.119	21.267	BB	50358	935872	70.19%	4.341%
18	22.098	22.019	22.200	BB	31475	830449	62.29%	3.852%
			Sum of corrected areas:			21559833		

FF030325.M Tue Mar 04 04:24:49 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015573.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 14:14
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 14:27:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:27:08 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...	15.023	618103	5.184 ug/ml
Target Compounds				
1)	N-OCTANE	2.029	621701	5.326 ug/ml
2)	N-DECANE	4.566	583995	5.094 ug/ml
3)	N-DODECANE	6.733	599395	5.027 ug/ml
4)	N-TETRADECANE	8.560	587159	4.983 ug/ml
5)	N-HEXADECANE	10.168	587591	4.865 ug/ml
6)	N-OCTADECANE	11.612	628633	4.921 ug/ml
7)	N-EICOSANE	12.923	649591	5.047 ug/ml
8)	N-DOCOSANE	14.123	661742	5.111 ug/ml
10)	N-TETRACOSANE	15.225	678128	5.165 ug/ml
11)	N-HEXACOSANE	16.249	660530	5.119 ug/ml
12)	N-OCTACOSANE	17.199	664309	5.189 ug/ml
13)	N-TRIACONTANE	18.087	673997	5.278 ug/ml
14)	N-DOTRIACONTANE	18.920	660330	5.292 ug/ml
15)	N-TETRATRIACONTANE	19.704	587417	5.128 ug/ml
16)	N-HEXATRIACONTANE	20.445	490995	4.880 ug/ml
17)	N-OCTATRIACONTANE	21.183	411466	4.461 ug/ml
18)	N-TETRACONTANE	22.096	351779	4.142 ug/ml

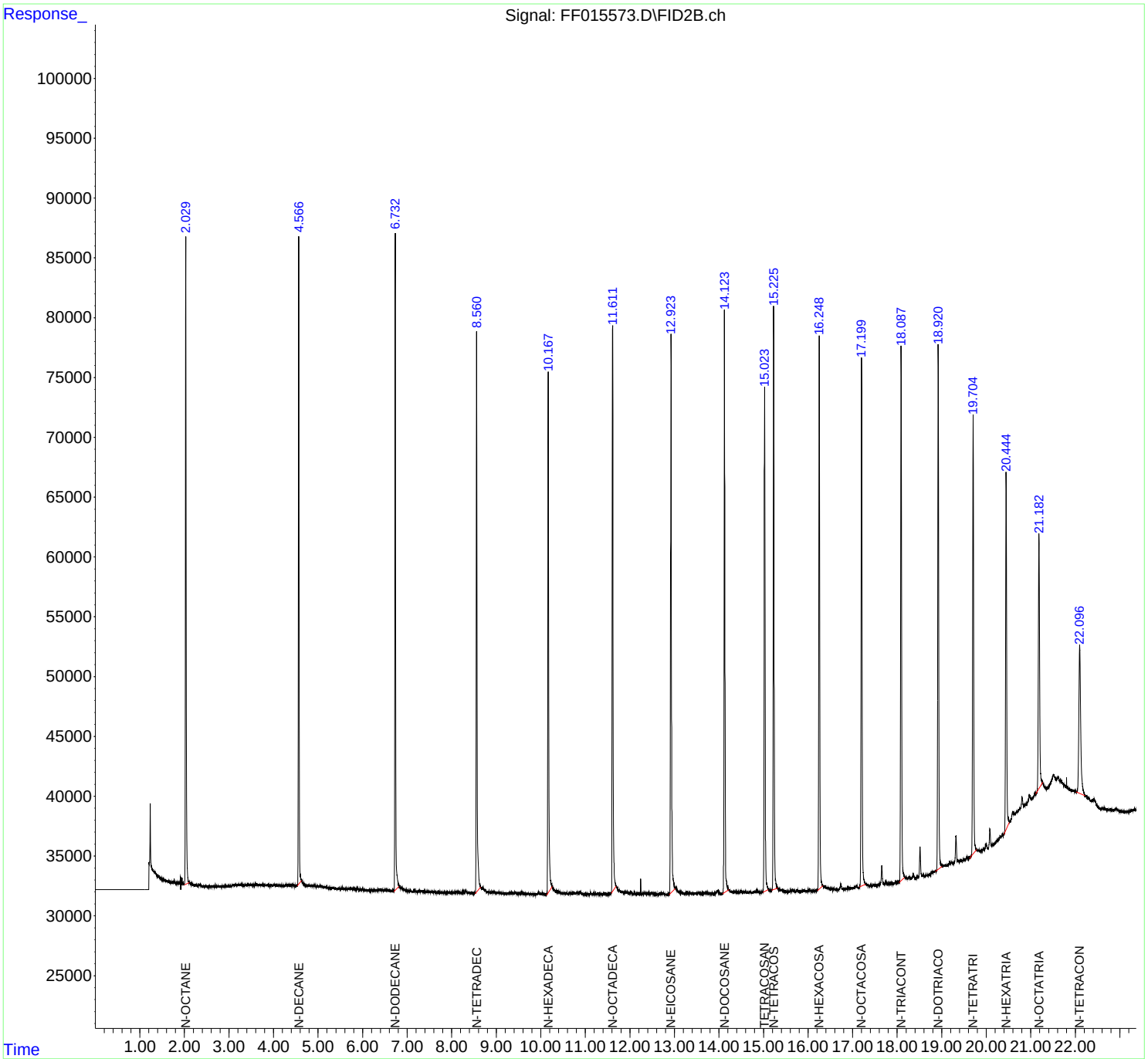
(f)=RT Delta > 1/2 Window (m)=manual int.

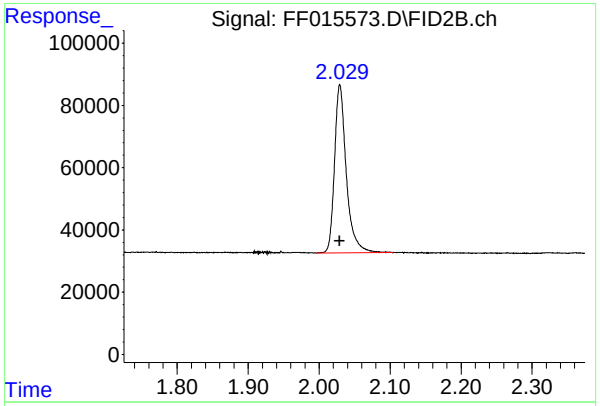
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015573.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 14:14
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 14:27:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:27:08 2025
Response via : Initial Calibration
Integrator: ChemStation

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

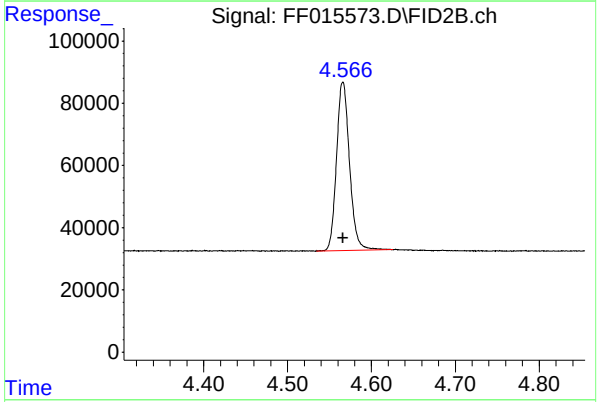




#1 N-OCTANE

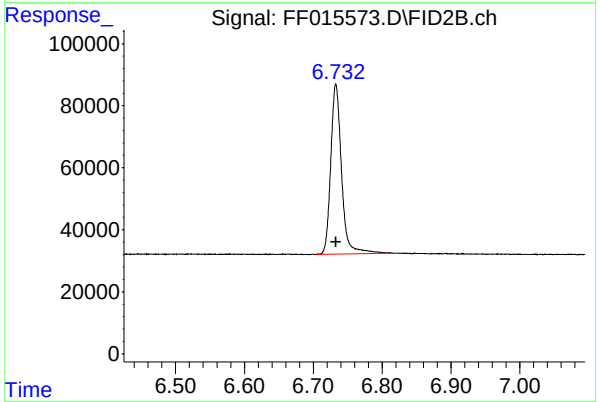
R.T.: 2.029 min
Delta R.T.: 0.000 min
Response: 621701
Conc: 5.33 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



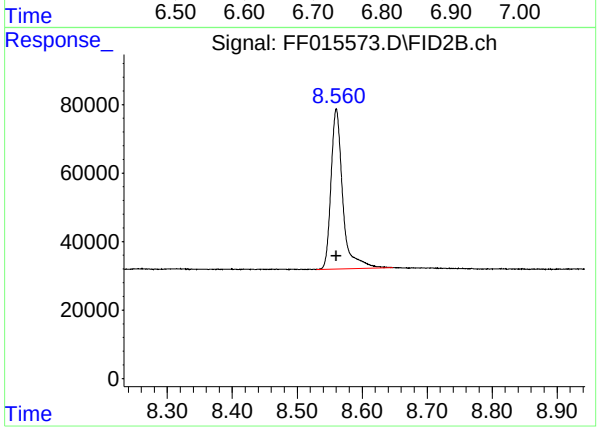
#2 N-DECANE

R.T.: 4.566 min
Delta R.T.: 0.000 min
Response: 583995
Conc: 5.09 ug/ml



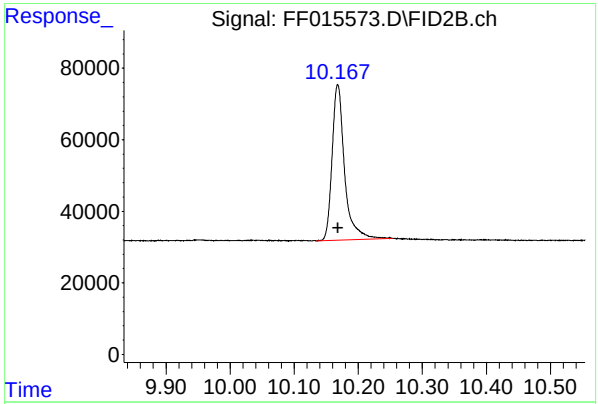
#3 N-DODECANE

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 599395
Conc: 5.03 ug/ml



#4 N-TETRADECANE

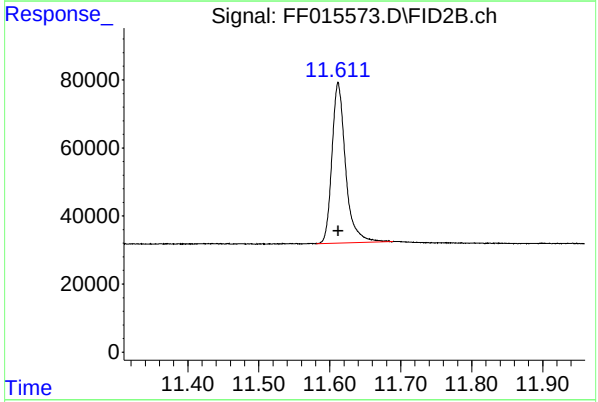
R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 587159
Conc: 4.98 ug/ml



#5 N-HEXADECANE

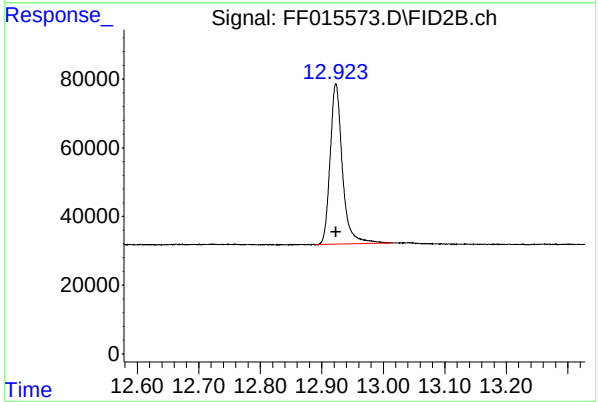
R.T.: 10.168 min
Delta R.T.: 0.000 min
Response: 587591
Conc: 4.87 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



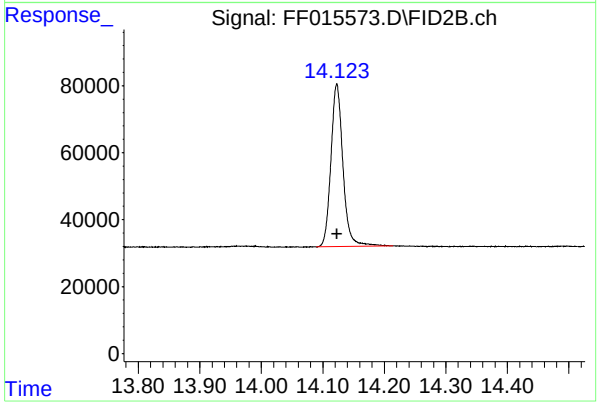
#6 N-OCTADECANE

R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 628633
Conc: 4.92 ug/ml



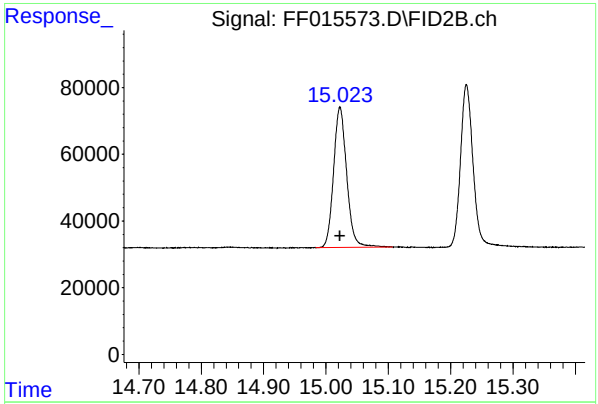
#7 N-EICOSANE

R.T.: 12.923 min
Delta R.T.: 0.000 min
Response: 649591
Conc: 5.05 ug/ml



#8 N-DOCOSANE

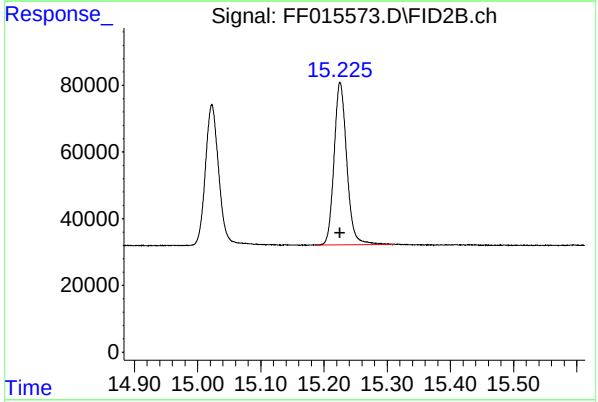
R.T.: 14.123 min
Delta R.T.: 0.000 min
Response: 661742
Conc: 5.11 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

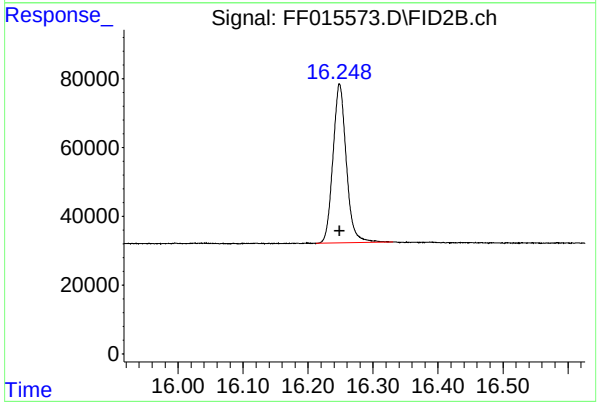
R.T.: 15.023 min
Delta R.T.: 0.000 min
Response: 618103
Conc: 5.18 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



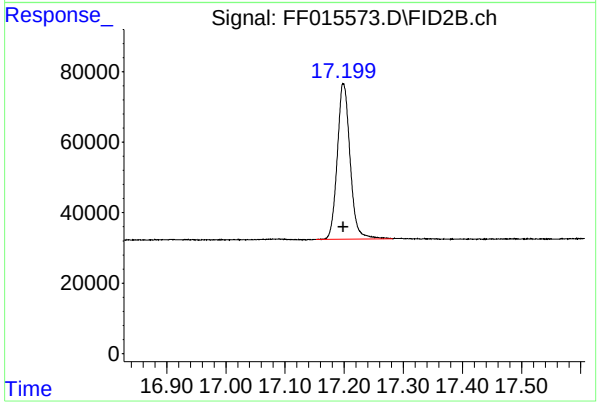
#10 N-TETRACOSANE

R.T.: 15.225 min
Delta R.T.: 0.000 min
Response: 678128
Conc: 5.16 ug/ml



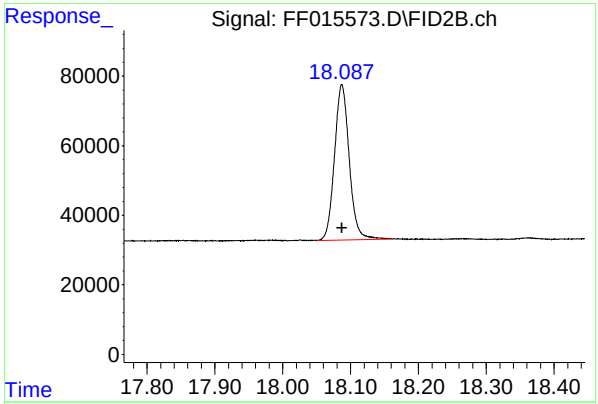
#11 N-HEXACOSANE

R.T.: 16.249 min
Delta R.T.: 0.000 min
Response: 660530
Conc: 5.12 ug/ml



#12 N-OCTACOSANE

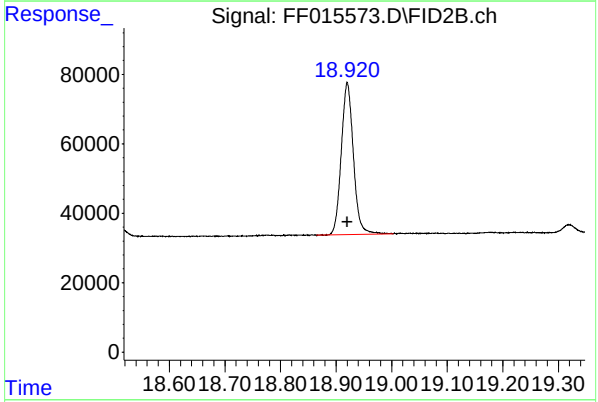
R.T.: 17.199 min
Delta R.T.: 0.000 min
Response: 664309
Conc: 5.19 ug/ml



#13 N-TRIACONTANE

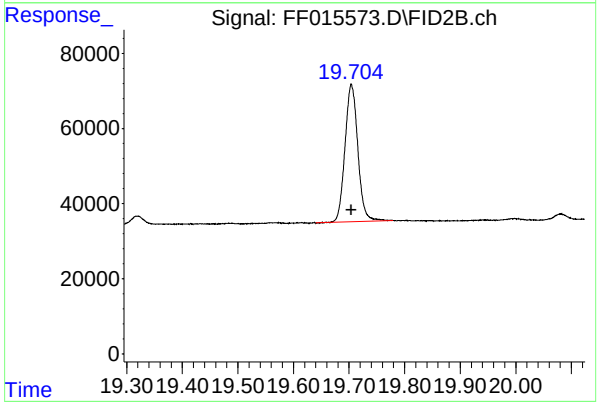
R.T.: 18.087 min
Delta R.T.: 0.000 min
Response: 673997
Conc: 5.28 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



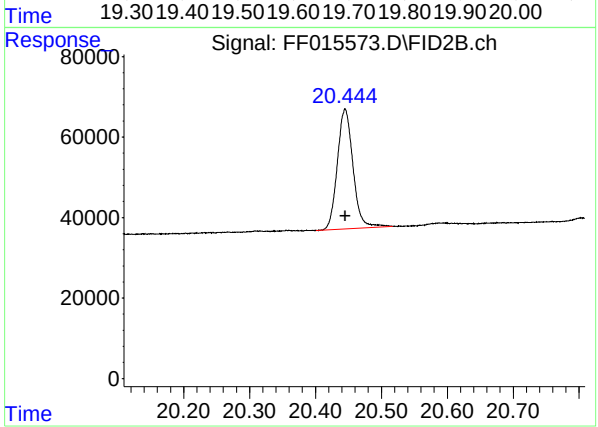
#14 N-DOTRIACONTANE

R.T.: 18.920 min
Delta R.T.: 0.000 min
Response: 660330
Conc: 5.29 ug/ml



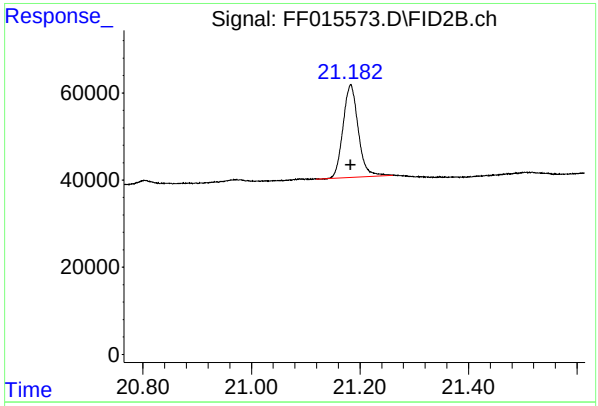
#15 N-TETRATRIACONTANE

R.T.: 19.704 min
Delta R.T.: 0.000 min
Response: 587417
Conc: 5.13 ug/ml



#16 N-HEXATRIACONTANE

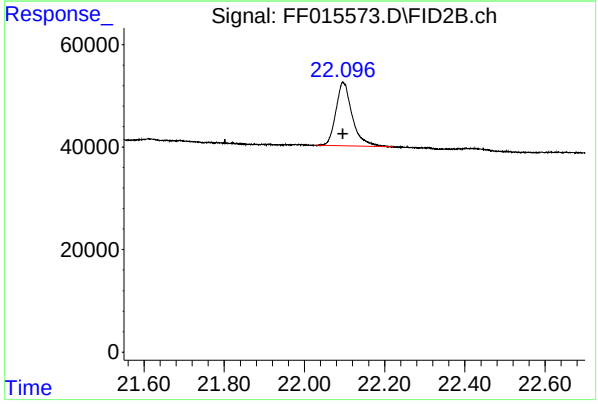
R.T.: 20.445 min
Delta R.T.: 0.000 min
Response: 490995
Conc: 4.88 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.183 min
Delta R.T.: 0.000 min
Response: 411466
Conc: 4.46 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.096 min
Delta R.T.: 0.000 min
Response: 351779
Conc: 4.14 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015573.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 14:14
Sample : 5 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.029	1.996	2.104	BB	54082	621701	91.68%	5.801%
2	4.566	4.534	4.626	BB	54131	583995	86.12%	5.449%
3	6.733	6.704	6.816	BB	54872	599395	88.39%	5.593%
4	8.560	8.529	8.647	BB	46815	587159	86.59%	5.479%
5	10.168	10.134	10.254	BB	43537	587591	86.65%	5.483%
6	11.612	11.581	11.689	BB	47155	628633	92.70%	5.866%
7	12.923	12.891	13.016	BB	46754	649591	95.79%	6.061%
8	14.123	14.089	14.214	BB	48554	661742	97.58%	6.175%
9	15.023	14.984	15.107	BB	42086	618103	91.15%	5.768%
10	15.225	15.187	15.309	BB	48677	678128	100.00%	6.328%
11	16.249	16.212	16.331	BB	46180	660530	97.40%	6.163%
12	17.199	17.152	17.282	BB	44105	664309	97.96%	6.199%
13	18.087	18.049	18.162	BB	44720	673997	99.39%	6.289%
14	18.920	18.864	19.002	BB	43733	660330	97.38%	6.162%
15	19.704	19.641	19.779	BB	36703	587417	86.62%	5.481%
16	20.445	20.401	20.517	BB	29775	490995	72.40%	4.582%
17	21.183	21.119	21.261	BB	21273	411466	60.68%	3.839%
18	22.096	22.029	22.221	BB	12407	351779	51.87%	3.282%
			Sum of corrected areas:			10716861		

FF030325.M Tue Mar 04 04:25:06 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015574.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 14:43
Operator : YP\AJ
Sample : FF030325ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
FF030325ICV

Integration File: autoint1.e
Quant Time: Mar 03 14:52:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.026	5886567	49.369 ug/ml
	Target Compounds			
1)	N-OCTANE	2.026	5652436	48.423 ug/ml
2)	N-DECANE	4.566	5675597	49.503 ug/ml
3)	N-DODECANE	6.734	5953793	49.932 ug/ml
4)	N-TETRADECANE	8.563	5916667	50.208 ug/ml
5)	N-HEXADECANE	10.170	6111799	50.608 ug/ml
6)	N-OCTADECANE	11.614	6466625	50.622 ug/ml
7)	N-EICOSANE	12.925	6428445	49.942 ug/ml
8)	N-DOCOSANE	14.125	6418783	49.575 ug/ml
10)	N-TETRACOSANE	15.230	6461108	49.207 ug/ml
11)	N-HEXACOSANE	16.252	6353282	49.239 ug/ml
12)	N-OCTACOSANE	17.203	6271133	48.980 ug/ml
13)	N-TRIACONTANE	18.091	6176616	48.369 ug/ml
14)	N-DOTRIACONTANE	18.924	5990851	48.007 ug/ml
15)	N-TETRATRIACONTANE	19.708	5439988	47.492 ug/ml
16)	N-HEXATRIACONTANE	20.448	4762293	47.334 ug/ml
17)	N-OCTATRIACONTANE	21.185	4349368	47.158 ug/ml
18)	N-TETRACONTANE	22.100	4088938	48.144 ug/ml

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

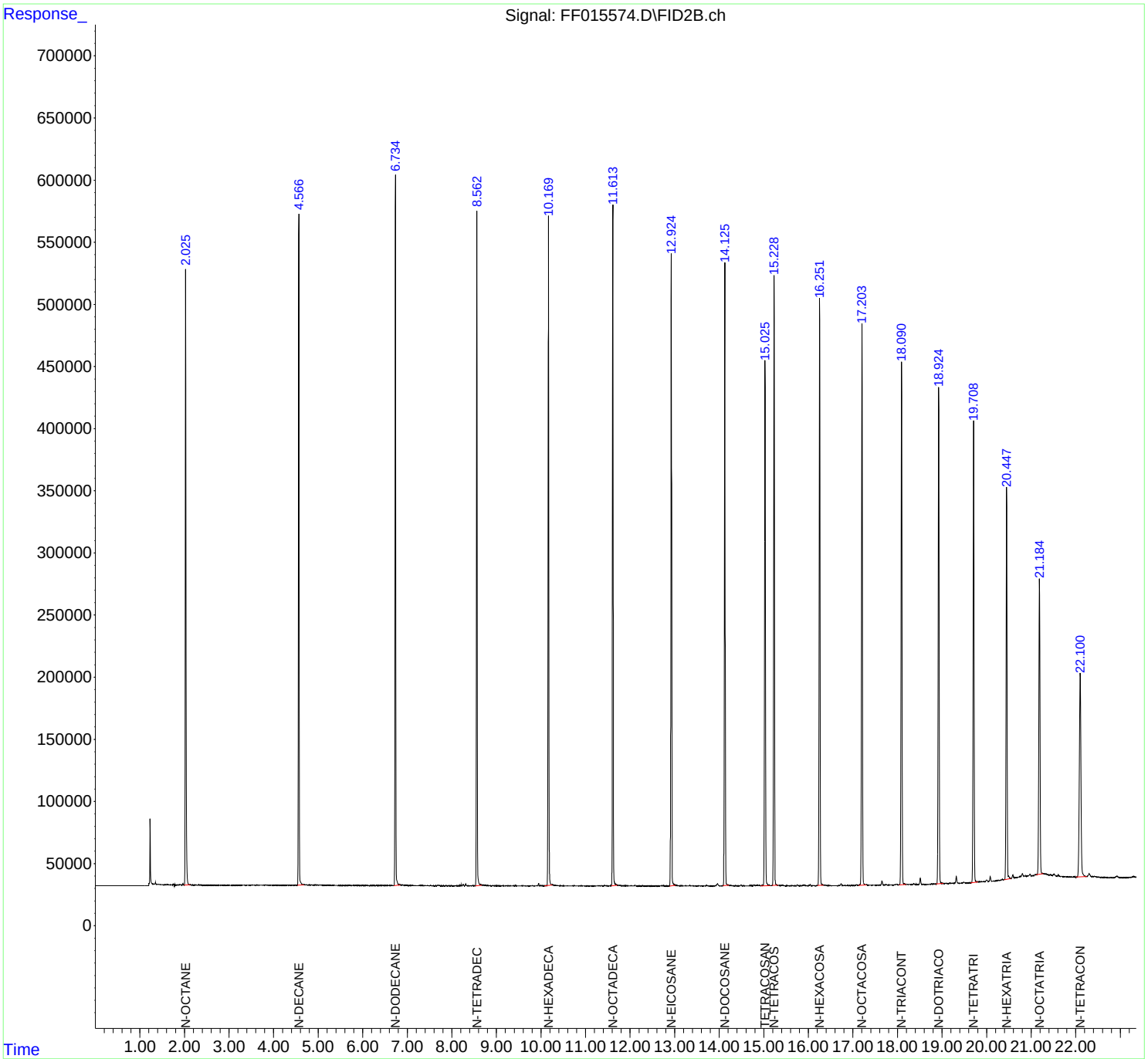
Quantitation Report (QT Reviewed)

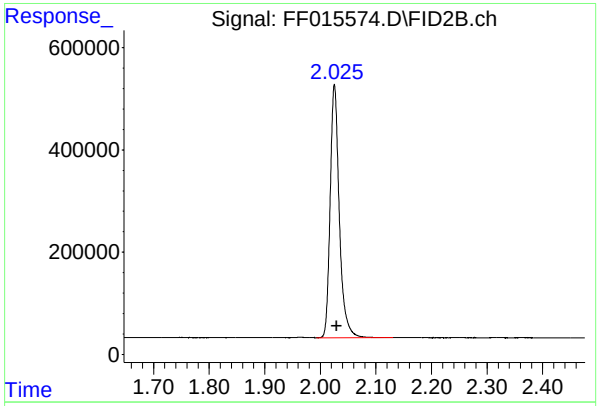
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015574.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 14:43
Operator : YP\AJ
Sample : FF030325ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
FF030325ICV

Integration File: autoint1.e
Quant Time: Mar 03 14:52:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

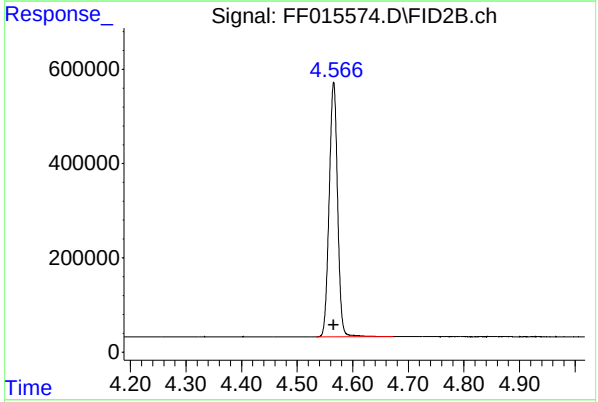




#1 N-OCTANE

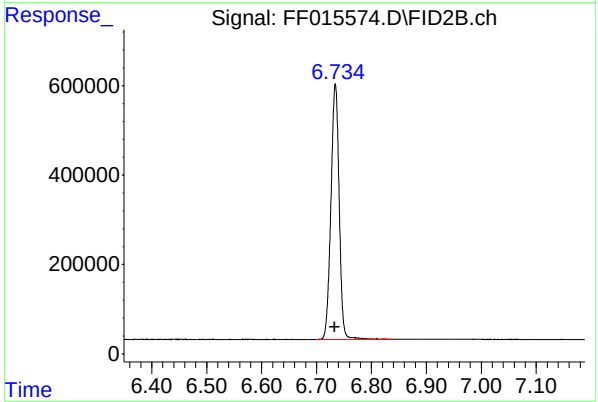
R.T.: 2.026 min
Delta R.T.: -0.003 min
Response: 5652436
Conc: 48.42 ug/ml

Instrument :
FID_F
ClientSampleId :
FF030325ICV



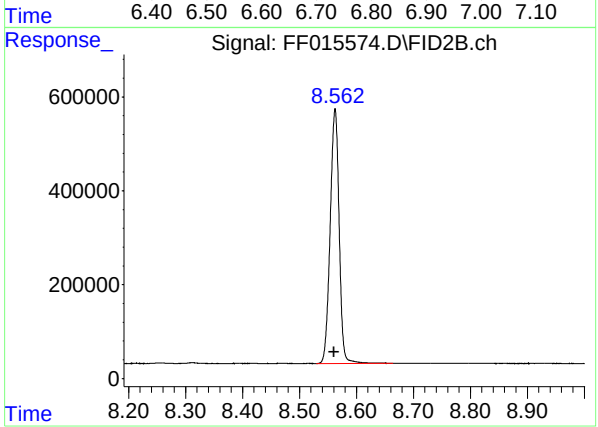
#2 N-DECANE

R.T.: 4.566 min
Delta R.T.: 0.000 min
Response: 5675597
Conc: 49.50 ug/ml



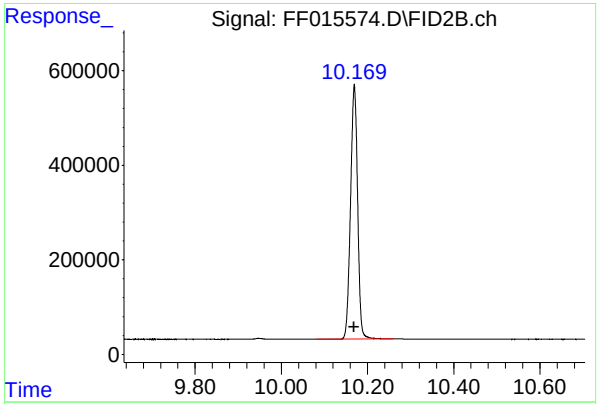
#3 N-DODECANE

R.T.: 6.734 min
Delta R.T.: 0.002 min
Response: 5953793
Conc: 49.93 ug/ml



#4 N-TETRADECANE

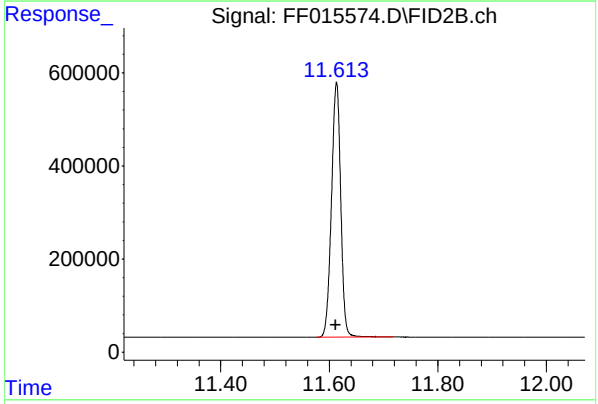
R.T.: 8.563 min
Delta R.T.: 0.002 min
Response: 5916667
Conc: 50.21 ug/ml



#5 N-HEXADECANE

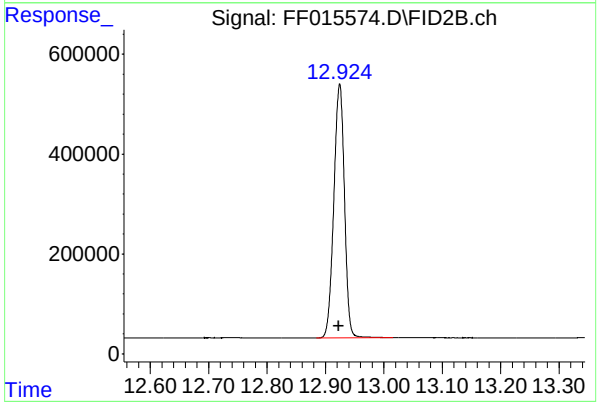
R.T.: 10.170 min
Delta R.T.: 0.001 min
Response: 6111799
Conc: 50.61 ug/ml

Instrument :
FID_F
ClientSampleId :
FF030325ICV



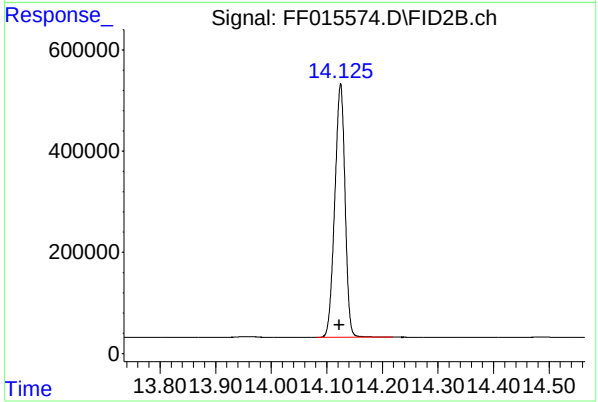
#6 N-OCTADECANE

R.T.: 11.614 min
Delta R.T.: 0.002 min
Response: 6466625
Conc: 50.62 ug/ml



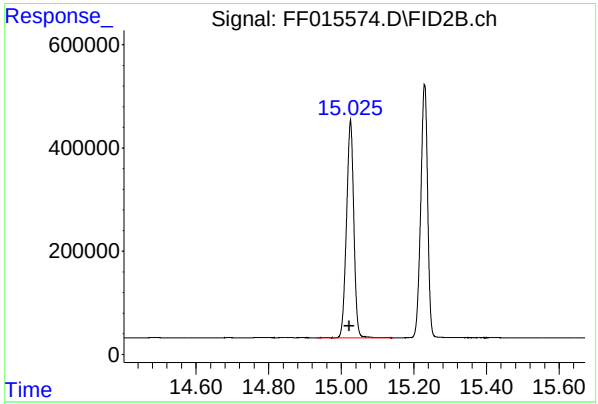
#7 N-EICOSANE

R.T.: 12.925 min
Delta R.T.: 0.002 min
Response: 6428445
Conc: 49.94 ug/ml



#8 N-DOCOSANE

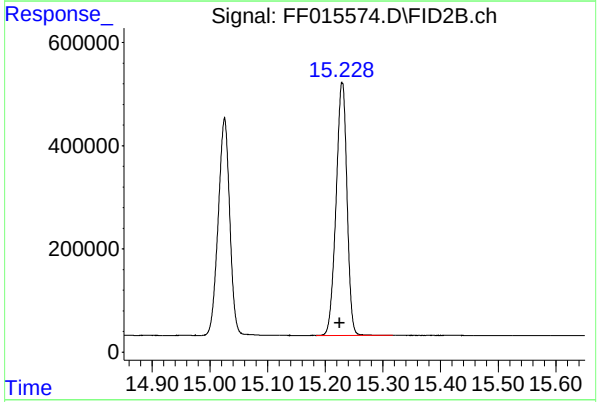
R.T.: 14.125 min
Delta R.T.: 0.002 min
Response: 6418783
Conc: 49.57 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

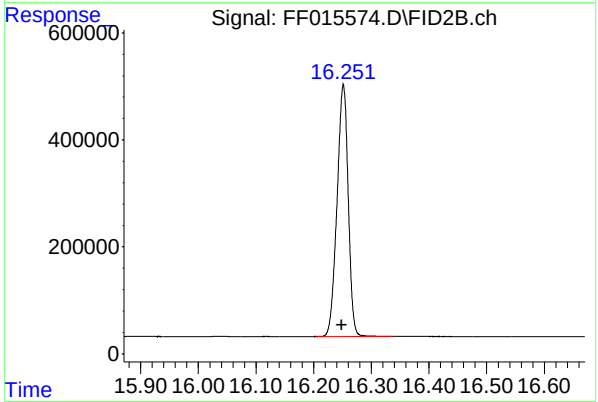
R.T.: 15.026 min
Delta R.T.: 0.003 min
Response: 5886567
Conc: 49.37 ug/ml

Instrument :
FID_F
ClientSampleId :
FF030325ICV



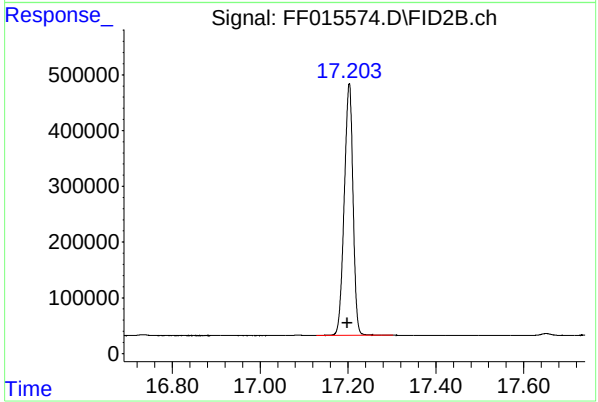
#10 N-TETRACOSANE

R.T.: 15.230 min
Delta R.T.: 0.004 min
Response: 6461108
Conc: 49.21 ug/ml



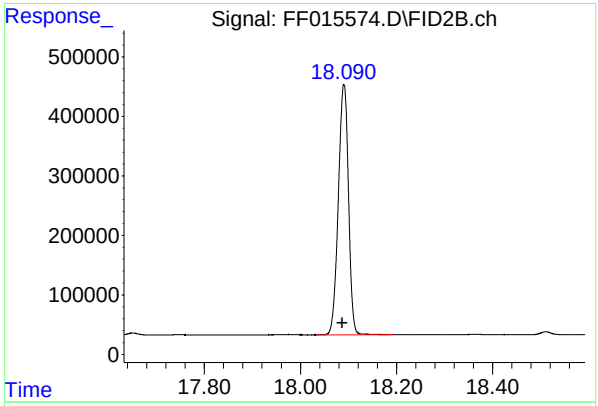
#11 N-HEXACOSANE

R.T.: 16.252 min
Delta R.T.: 0.003 min
Response: 6353282
Conc: 49.24 ug/ml



#12 N-OCTACOSANE

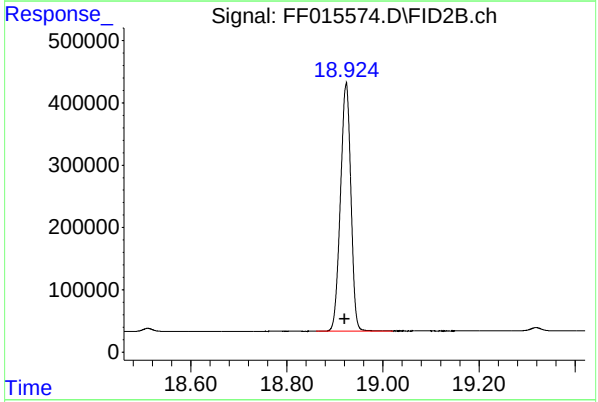
R.T.: 17.203 min
Delta R.T.: 0.004 min
Response: 6271133
Conc: 48.98 ug/ml



#13 N-TRIACONTANE

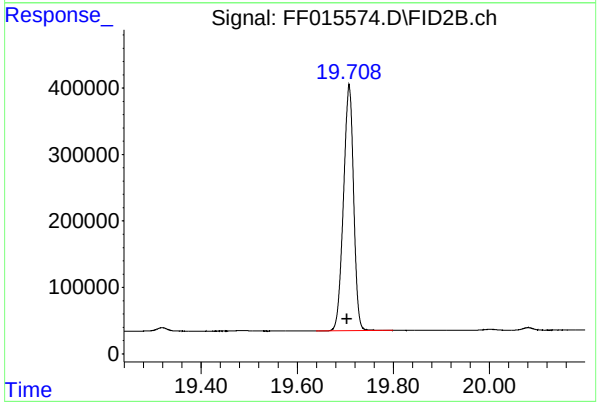
R.T.: 18.091 min
Delta R.T.: 0.003 min
Response: 6176616
Conc: 48.37 ug/ml

Instrument :
FID_F
ClientSampleId :
FF030325ICV



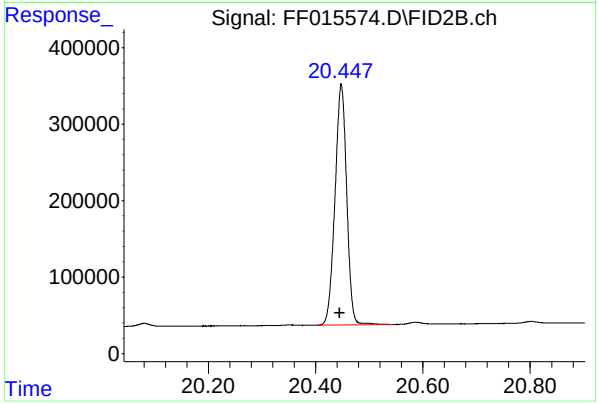
#14 N-DOTRIACONTANE

R.T.: 18.924 min
Delta R.T.: 0.003 min
Response: 5990851
Conc: 48.01 ug/ml



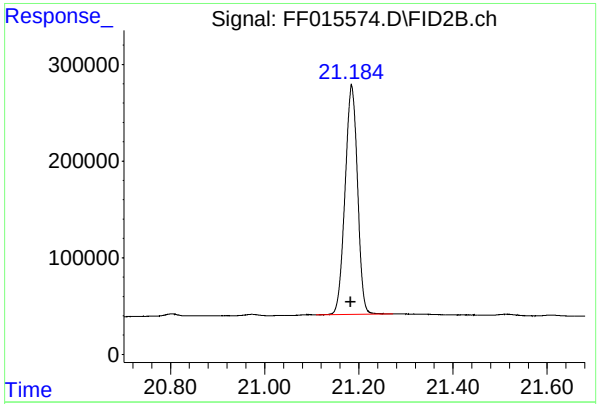
#15 N-TETRATRIACONTANE

R.T.: 19.708 min
Delta R.T.: 0.004 min
Response: 5439988
Conc: 47.49 ug/ml



#16 N-HEXATRIACONTANE

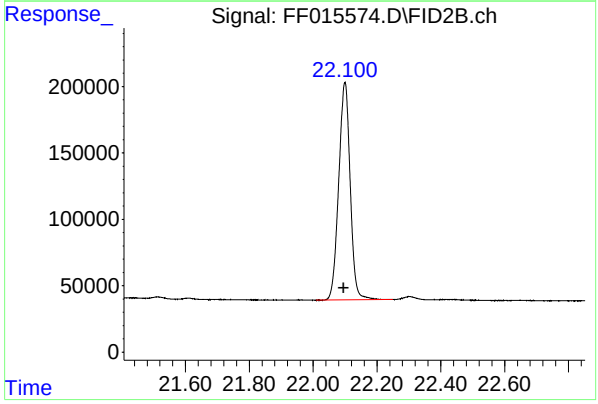
R.T.: 20.448 min
Delta R.T.: 0.003 min
Response: 4762293
Conc: 47.33 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.185 min
Delta R.T.: 0.002 min
Response: 4349368
Conc: 47.16 ug/ml

Instrument :
FID_F
ClientSampleId :
FF030325ICV



#18 N-TETRACONTANE

R.T.: 22.100 min
Delta R.T.: 0.004 min
Response: 4088938
Conc: 48.14 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030325\
Data File : FF015574.D
Signal(s) : FID2B.ch
Acq On : 03 Mar 2025 14:43
Sample : FF030325ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.026	1.992	2.131	PB	495067	5652436	87.41%	5.414%
2	4.566	4.534	4.672	BB	540260	5675597	87.77%	5.436%
3	6.734	6.699	6.839	BB	571773	5953793	92.07%	5.703%
4	8.563	8.529	8.664	BB	542299	5916667	91.50%	5.667%
5	10.170	10.081	10.259	BB	537181	6111799	94.51%	5.854%
6	11.614	11.576	11.717	BB	548034	6466625	100.00%	6.194%
7	12.925	12.884	13.016	BB	508775	6428445	99.41%	6.157%
8	14.125	14.081	14.219	BB	500245	6418783	99.26%	6.148%
9	15.026	14.931	15.142	BB	422274	5886567	91.03%	5.638%
10	15.230	15.184	15.317	BB	491288	6461108	99.91%	6.189%
11	16.252	16.204	16.337	BB	470520	6353282	98.25%	6.085%
12	17.203	17.127	17.302	BB	451976	6271133	96.98%	6.007%
13	18.091	18.032	18.192	BB	420399	6176616	95.52%	5.916%
14	18.924	18.861	19.021	BB	399205	5990851	92.64%	5.738%
15	19.708	19.639	19.799	BB	370246	5439988	84.12%	5.211%
16	20.448	20.401	20.544	BB	315245	4762293	73.64%	4.561%
17	21.185	21.109	21.272	BB	237887	4349368	67.26%	4.166%
18	22.100	22.009	22.250	BBA	163868	4088938	63.23%	3.916%

Sum of corrected areas: 104404287

FF030325.M Tue Mar 04 04:25:29 2025

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: JACO05

ProjectID: Former Schlumberger STC PTC Site # D3868221

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG No.: Q1478

Calibration Sequence : FG030325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	114833486	114833	FG015426.D
500	55962401	111925	FG015427.D
200	22632021	113160	FG015428.D
100	12261744	122617	FG015429.D
50	6347567	126951	FG015430.D

AVG RF : 117897 **% RSD : 5.558** **AVG RT : 15.0338**

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015426.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 11:48
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: Mar 03 12:50:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:48:04 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...	15.039	10644030	100.716 ug/ml
	Target Compounds			
1)	N-OCTANE	1.995	10570364	103.119 ug/ml
2)	N-DECANE	4.536	10810569	102.952 ug/ml
3)	N-DODECANE	6.720	11332975	102.511 ug/ml
4)	N-TETRADECANE	8.557	11220922	101.787 ug/ml
5)	N-HEXADECANE	10.172	11555168	101.197 ug/ml
6)	N-OCTADECANE	11.620	12045869	100.858 ug/ml
7)	N-EICOSANE	12.935	11845392	100.680 ug/ml
8)	N-DOCOSANE	14.137	11716478	100.626 ug/ml
10)	N-TETRACOSANE	15.245	11661357	100.709 ug/ml
11)	N-HEXACOSANE	16.269	11454493	100.917 ug/ml
12)	N-OCTACOSANE	17.221	11190263	100.825 ug/ml
13)	N-TRIACONTANE	18.110	11049270	100.552 ug/ml
14)	N-DOTRIACONTANE	18.944	10781202	100.377 ug/ml
15)	N-TETRATRIACONTANE	19.729	9934114	100.333 ug/ml
16)	N-HEXATRIACONTANE	20.469	8727944	101.027 ug/ml
17)	N-OCTATRIACONTANE	21.214	7669375	100.324 ug/ml
18)	N-TETRACONTANE	22.146	6527484	99.312 ug/ml

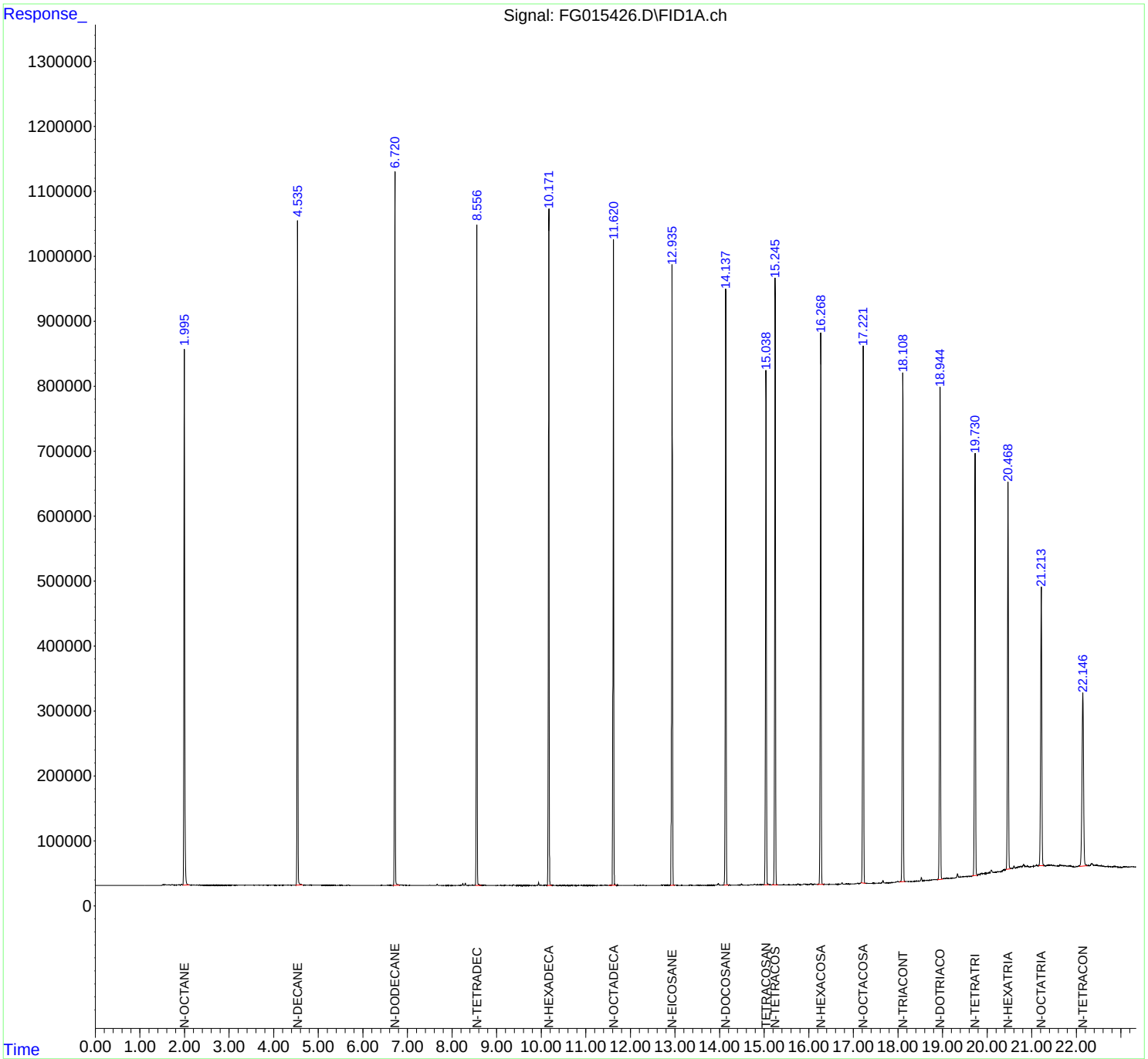
(f)=RT Delta > 1/2 Window (m)=manual int.

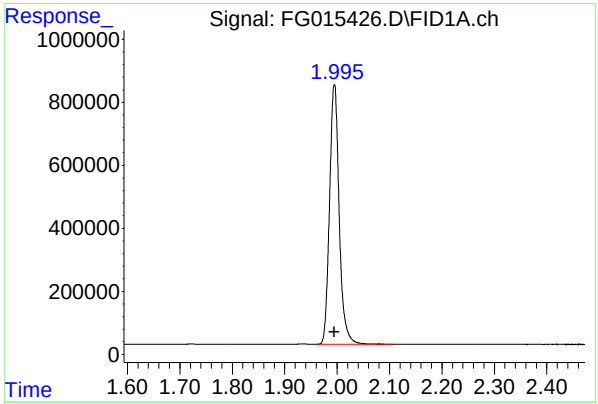
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015426.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 11:48
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 12:50:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:48:04 2025
Response via : Initial Calibration
Integrator: ChemStation

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

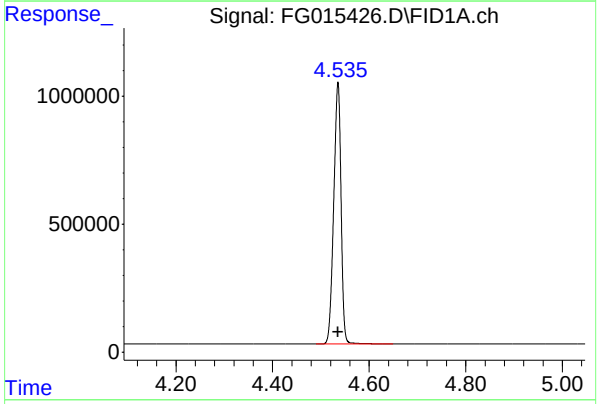




#1 N-OCTANE

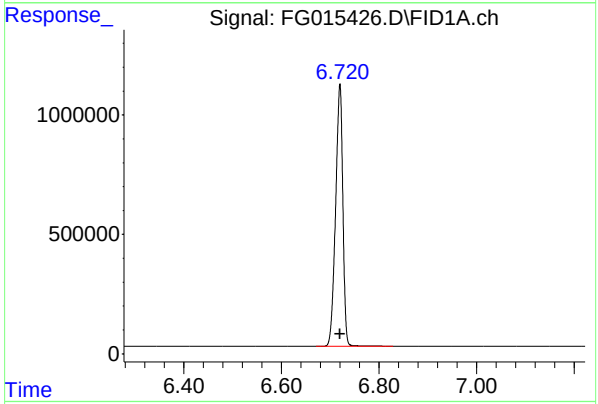
R.T.: 1.995 min
Delta R.T.: 0.000 min
Response: 10570364
Conc: 103.12 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



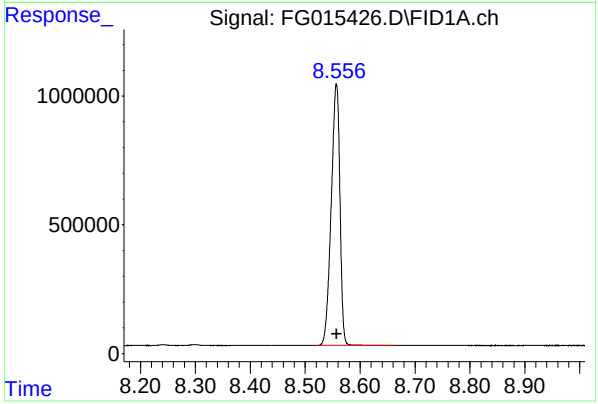
#2 N-DECANE

R.T.: 4.536 min
Delta R.T.: 0.000 min
Response: 10810569
Conc: 102.95 ug/ml



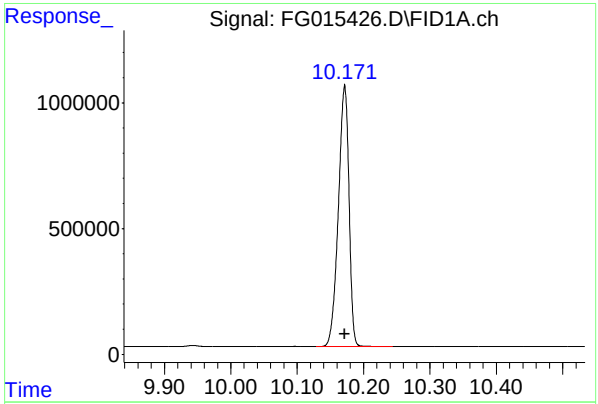
#3 N-DODECANE

R.T.: 6.720 min
Delta R.T.: 0.000 min
Response: 11332975
Conc: 102.51 ug/ml



#4 N-TETRADECANE

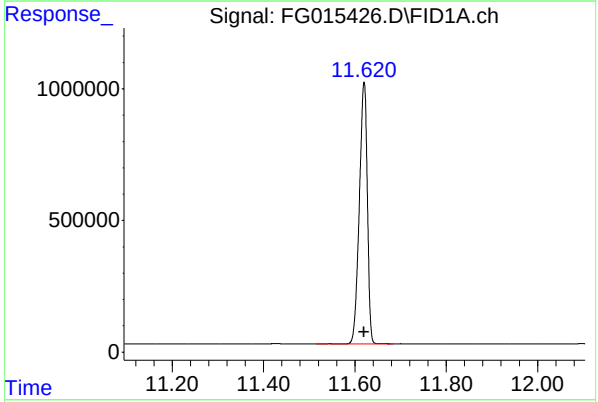
R.T.: 8.557 min
Delta R.T.: 0.000 min
Response: 11220922
Conc: 101.79 ug/ml



#5 N-HEXADECANE

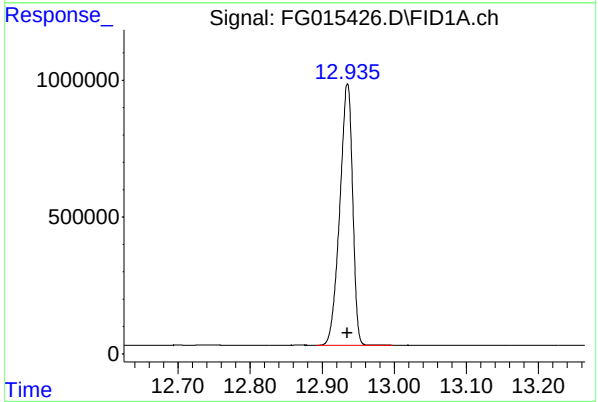
R.T.: 10.172 min
Delta R.T.: 0.000 min
Response: 11555168
Conc: 101.20 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



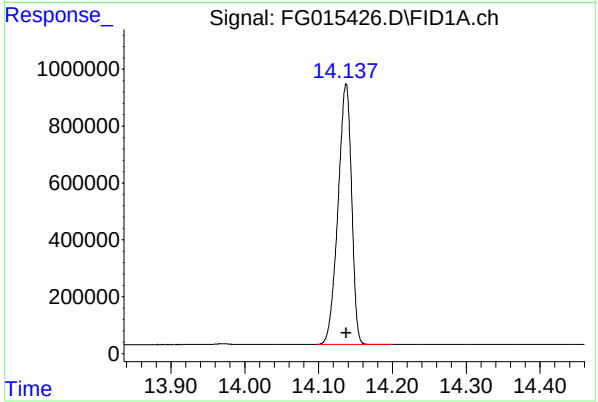
#6 N-OCTADECANE

R.T.: 11.620 min
Delta R.T.: 0.000 min
Response: 12045869
Conc: 100.86 ug/ml



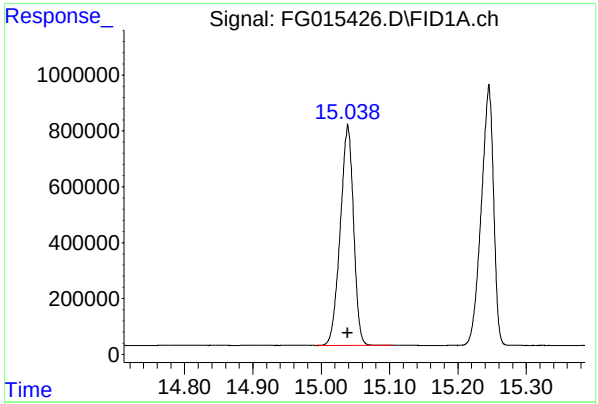
#7 N-EICOSANE

R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 11845392
Conc: 100.68 ug/ml



#8 N-DOCOSANE

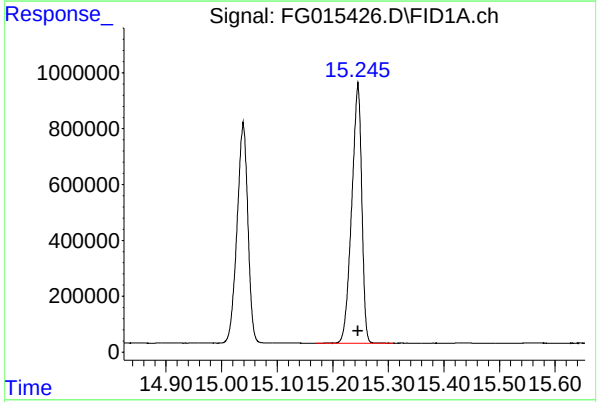
R.T.: 14.137 min
Delta R.T.: 0.000 min
Response: 11716478
Conc: 100.63 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

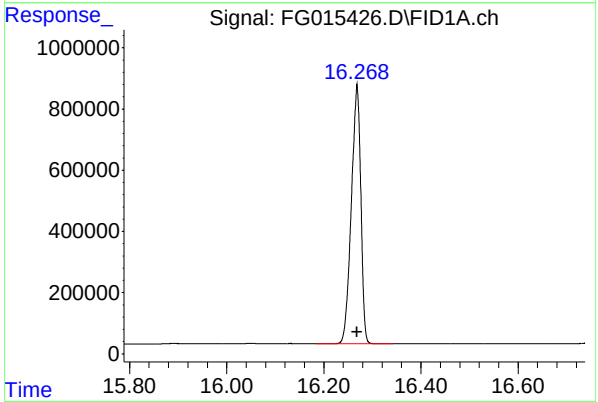
R.T.: 15.039 min
Delta R.T.: 0.000 min
Response: 10644030
Conc: 100.72 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



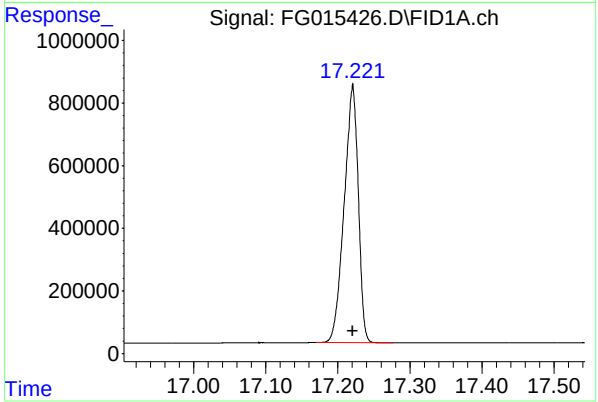
#10 N-TETRACOSANE

R.T.: 15.245 min
Delta R.T.: 0.000 min
Response: 11661357
Conc: 100.71 ug/ml



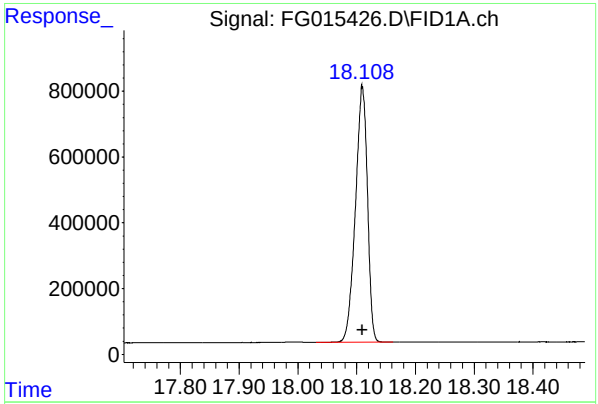
#11 N-HEXACOSANE

R.T.: 16.269 min
Delta R.T.: 0.000 min
Response: 11454493
Conc: 100.92 ug/ml



#12 N-OCTACOSANE

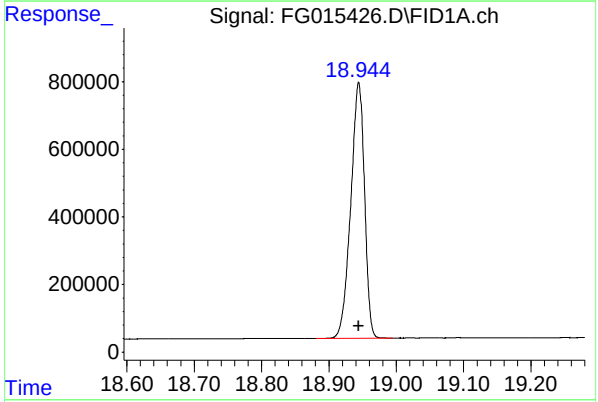
R.T.: 17.221 min
Delta R.T.: 0.000 min
Response: 11190263
Conc: 100.83 ug/ml



#13 N-TRIACONTANE

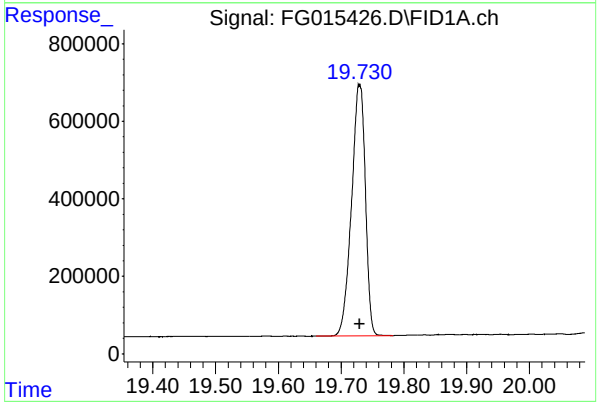
R.T.: 18.110 min
Delta R.T.: 0.000 min
Response: 11049270
Conc: 100.55 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



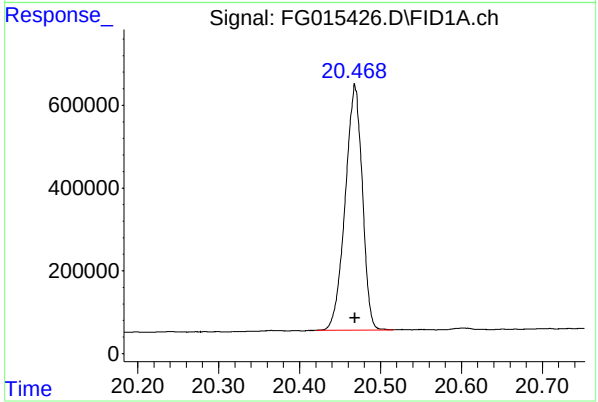
#14 N-DOTRIACONTANE

R.T.: 18.944 min
Delta R.T.: 0.000 min
Response: 10781202
Conc: 100.38 ug/ml



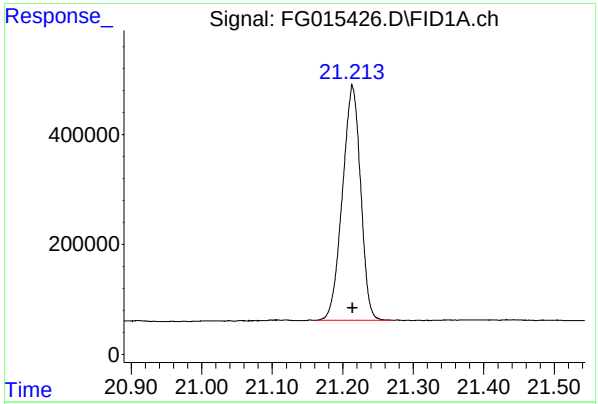
#15 N-TETRATRIACONTANE

R.T.: 19.729 min
Delta R.T.: 0.000 min
Response: 9934114
Conc: 100.33 ug/ml



#16 N-HEXATRIACONTANE

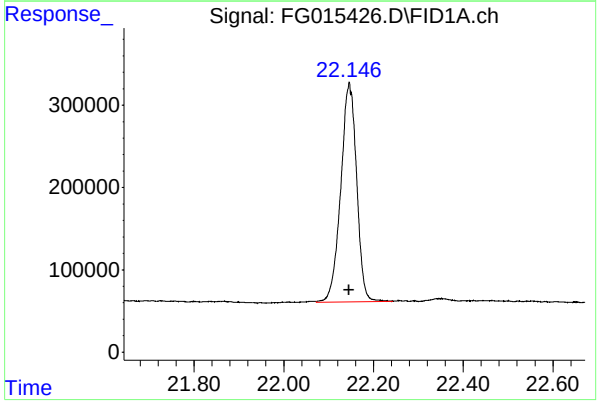
R.T.: 20.469 min
Delta R.T.: 0.000 min
Response: 8727944
Conc: 101.03 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.214 min
Delta R.T.: 0.000 mi
Response: 7669375
Conc: 100.32 ug/m

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.146 min
Delta R.T.: 0.000 min
Response: 6527484
Conc: 99.31 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015426.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 11:48
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.995	1.960	2.107	PB	824685	10570364	87.75%	5.542%
2	4.536	4.490	4.649	BB	1023315	10810569	89.75%	5.668%
3	6.720	6.671	6.828	BB	1099122	11332975	94.08%	5.942%
4	8.557	8.520	8.660	PB	1015491	11220922	93.15%	5.883%
5	10.172	10.128	10.244	BB	1041311	11555168	95.93%	6.058%
6	11.620	11.515	11.683	BB	993778	12045869	100.00%	6.315%
7	12.935	12.892	12.998	BB	954452	11845392	98.34%	6.210%
8	14.137	14.097	14.201	BB	916085	11716478	97.27%	6.143%
9	15.039	14.993	15.105	PV	789178	10644030	88.36%	5.580%
10	15.245	15.170	15.308	BB	934895	11661357	96.81%	6.114%
11	16.269	16.184	16.343	BB	847276	11454493	95.09%	6.005%
12	17.221	17.170	17.277	BV	825865	11190263	92.90%	5.867%
13	18.110	18.031	18.162	BB	775654	11049270	91.73%	5.793%
14	18.944	18.881	18.995	BV	758070	10781202	89.50%	5.652%
15	19.729	19.660	19.783	BV	646136	9934114	82.47%	5.208%
16	20.469	20.420	20.515	BV	589815	8727944	72.46%	4.576%
17	21.214	21.162	21.271	PV	427171	7669375	63.67%	4.021%
18	22.146	22.072	22.243	VV	266333	6527484	54.19%	3.422%

Sum of corrected areas: 190737268

FG030325.M Tue Mar 04 04:34:40 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015427.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 12:17
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 12:48:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:48:04 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...	15.035	5246382	50.000 ug/ml
Target Compounds				
1)	N-OCTANE	1.994	4965506	50.000 ug/ml
2)	N-DECANE	4.533	5095283	50.000 ug/ml
3)	N-DODECANE	6.717	5388928	50.000 ug/ml
4)	N-TETRADECANE	8.553	5413479	50.000 ug/ml
5)	N-HEXADECANE	10.168	5640871	50.000 ug/ml
6)	N-OCTADECANE	11.616	5920415	50.000 ug/ml
7)	N-EICOSANE	12.930	5842747	50.000 ug/ml
8)	N-DOCOSANE	14.132	5785353	50.000 ug/ml
10)	N-TETRACOSANE	15.240	5748589	50.000 ug/ml
11)	N-HEXACOSANE	16.263	5623200	50.000 ug/ml
12)	N-OCTACOSANE	17.216	5503536	50.000 ug/ml
13)	N-TRIACONTANE	18.106	5464008	50.000 ug/ml
14)	N-DOTRIACONTANE	18.940	5350108	50.000 ug/ml
15)	N-TETRATRIACONTANE	19.725	4934105	50.000 ug/ml
16)	N-HEXATRIACONTANE	20.464	4275212	50.000 ug/ml
17)	N-OCTATRIACONTANE	21.211	3809914	50.000 ug/ml
18)	N-TETRACONTANE	22.141	3308945	50.000 ug/ml

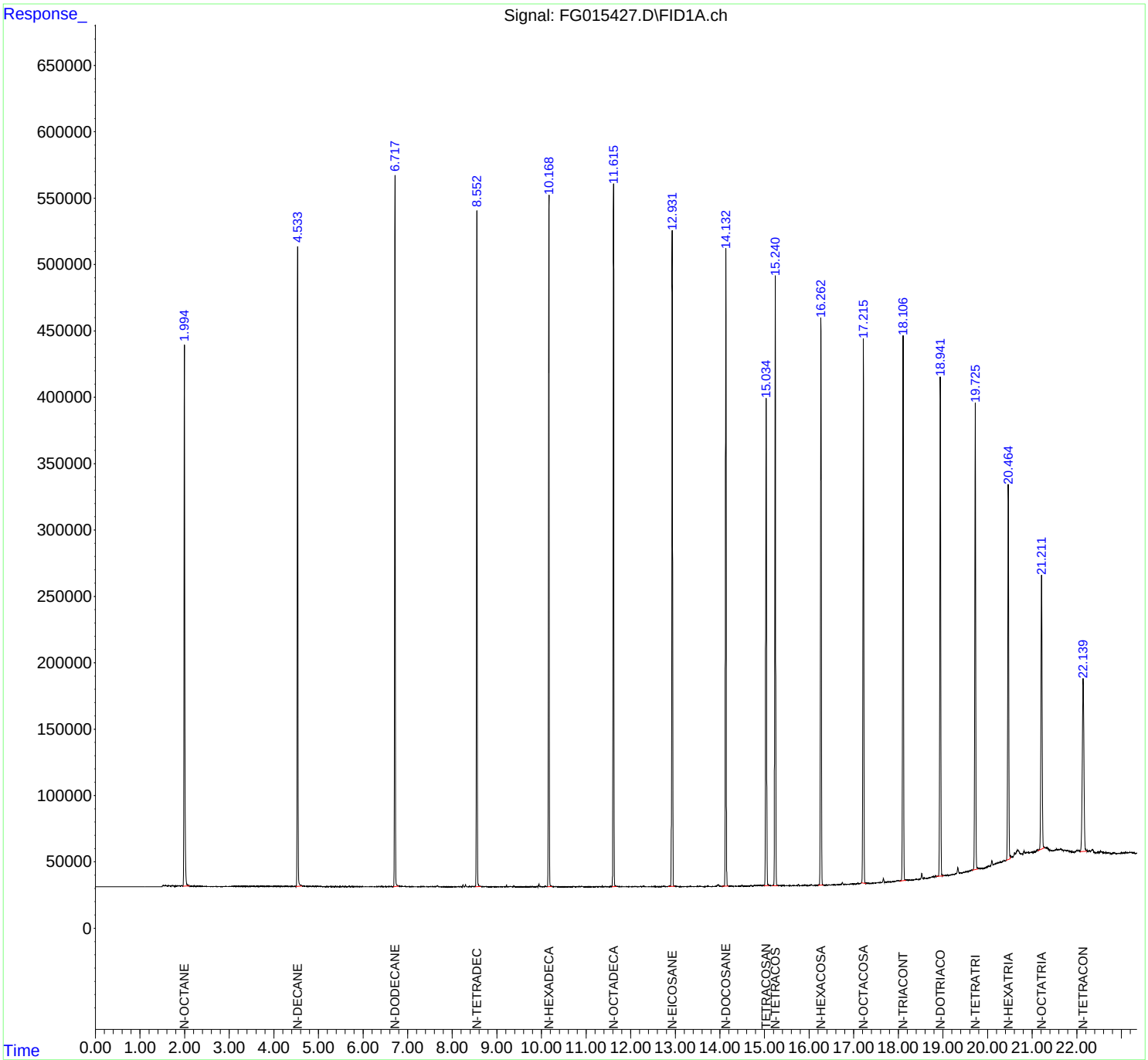
(f)=RT Delta > 1/2 Window (m)=manual int.

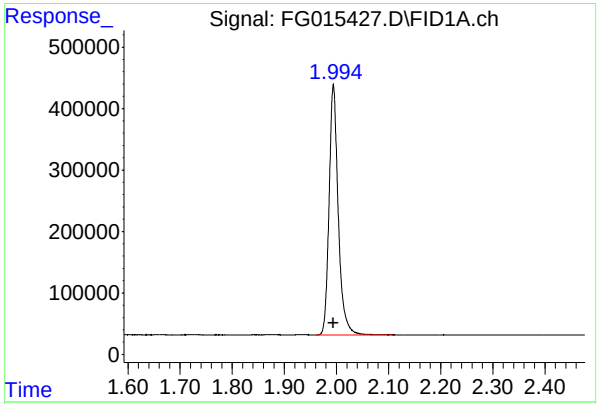
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015427.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 12:17
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 12:48:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:48:04 2025
Response via : Initial Calibration
Integrator: ChemStation

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

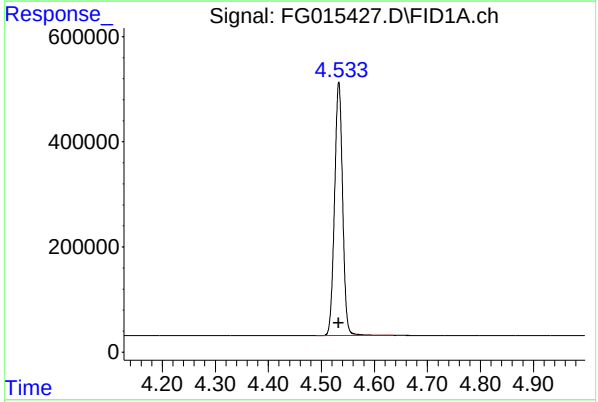




#1 N-OCTANE

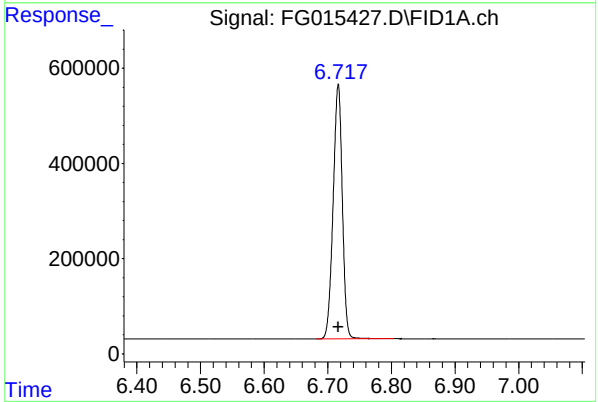
R.T.: 1.994 min
Delta R.T.: 0.000 min
Response: 4965506
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



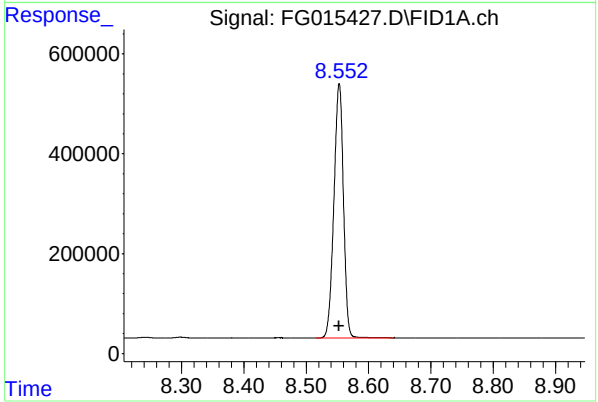
#2 N-DECANE

R.T.: 4.533 min
Delta R.T.: 0.000 min
Response: 5095283
Conc: 50.00 ug/ml



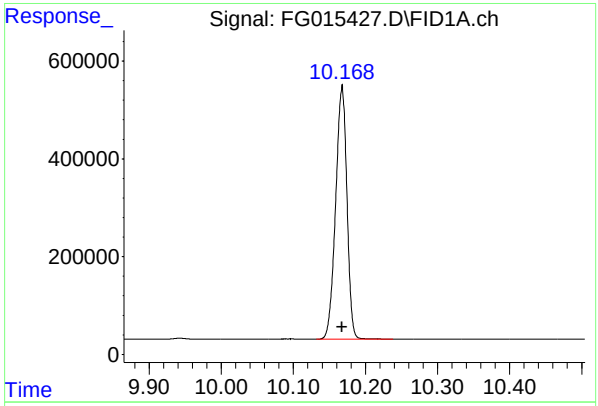
#3 N-DODECANE

R.T.: 6.717 min
Delta R.T.: 0.000 min
Response: 5388928
Conc: 50.00 ug/ml



#4 N-TETRADECANE

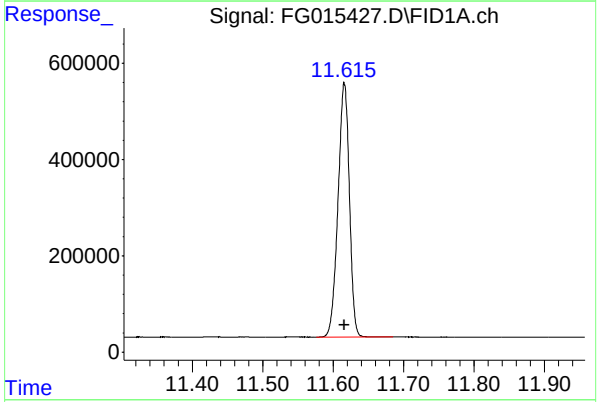
R.T.: 8.553 min
Delta R.T.: 0.000 min
Response: 5413479
Conc: 50.00 ug/ml



#5 N-HEXADECANE

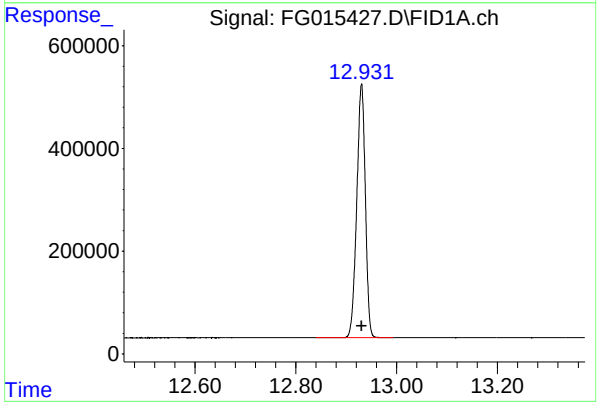
R.T.: 10.168 min
Delta R.T.: 0.000 min
Response: 5640871
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



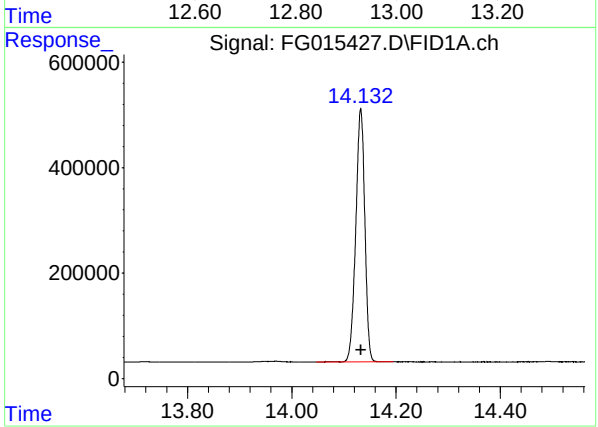
#6 N-OCTADECANE

R.T.: 11.616 min
Delta R.T.: 0.000 min
Response: 5920415
Conc: 50.00 ug/ml



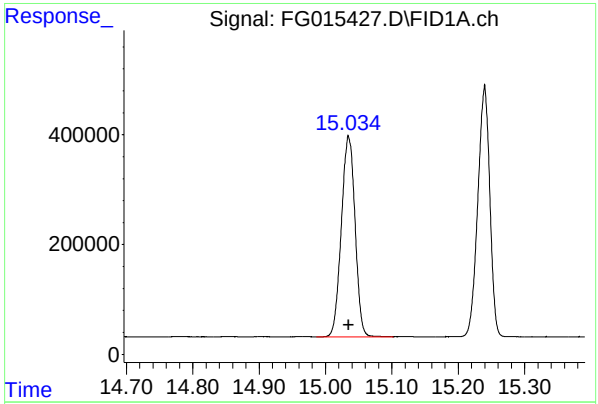
#7 N-EICOSANE

R.T.: 12.930 min
Delta R.T.: 0.000 min
Response: 5842747
Conc: 50.00 ug/ml



#8 N-DOCOSANE

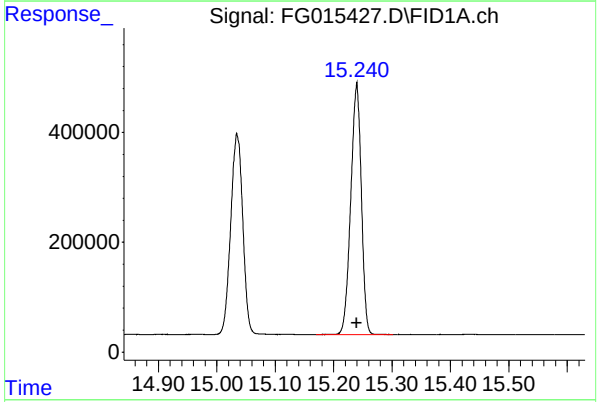
R.T.: 14.132 min
Delta R.T.: 0.000 min
Response: 5785353
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

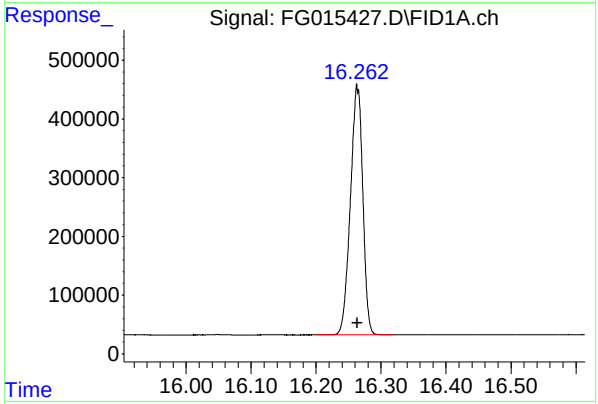
R.T.: 15.035 min
Delta R.T.: 0.000 min
Response: 5246382
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



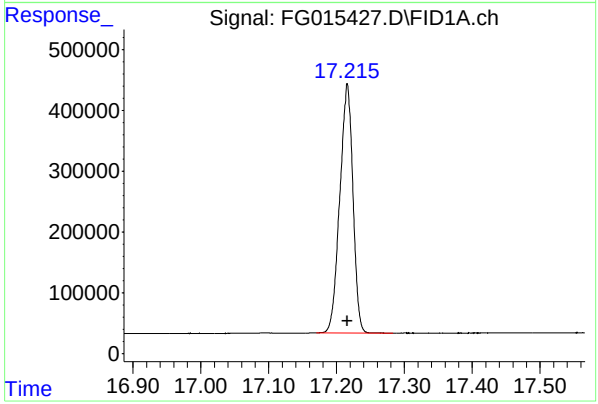
#10 N-TETRACOSANE

R.T.: 15.240 min
Delta R.T.: 0.000 min
Response: 5748589
Conc: 50.00 ug/ml



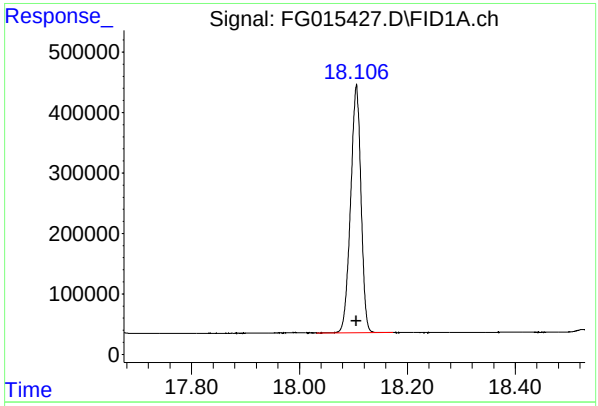
#11 N-HEXACOSANE

R.T.: 16.263 min
Delta R.T.: 0.000 min
Response: 5623200
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

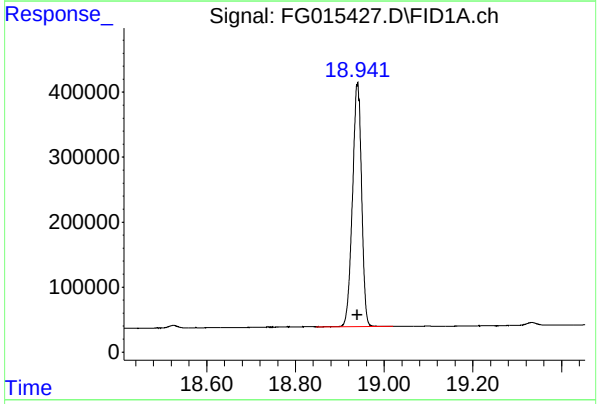
R.T.: 17.216 min
Delta R.T.: 0.000 min
Response: 5503536
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

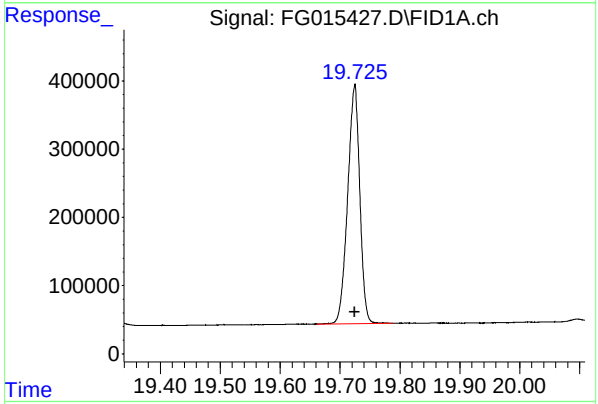
R.T.: 18.106 min
Delta R.T.: 0.000 min
Response: 5464008
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



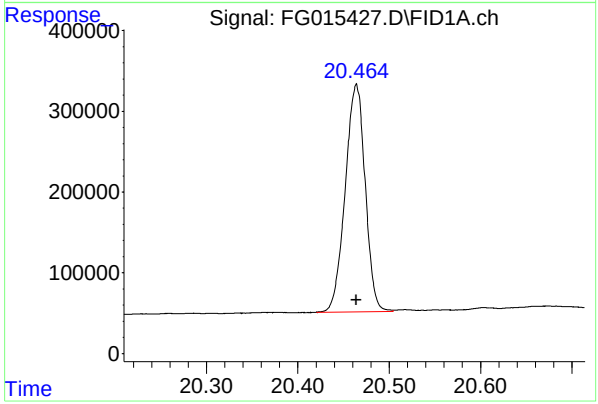
#14 N-DOTRIACONTANE

R.T.: 18.940 min
Delta R.T.: 0.000 min
Response: 5350108
Conc: 50.00 ug/ml



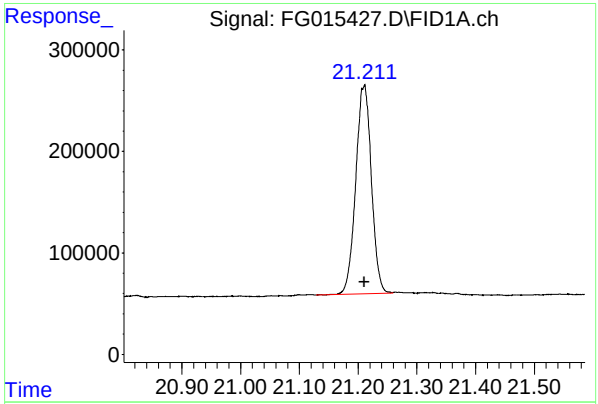
#15 N-TETRATRIACONTANE

R.T.: 19.725 min
Delta R.T.: 0.000 min
Response: 4934105
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

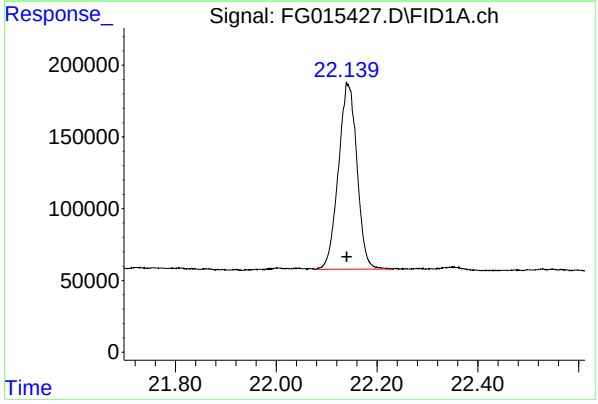
R.T.: 20.464 min
Delta R.T.: 0.000 min
Response: 4275212
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.211 min
Delta R.T.: 0.000 mi
Response: 3809914
Conc: 50.00 ug/m

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.141 min
Delta R.T.: 0.000 min
Response: 3308945
Conc: 50.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015427.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 12:17
Sample : 50 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.994	1.961	2.108	BB	407382	4965506	83.87%	5.321%
2	4.533	4.490	4.635	BB	482505	5095283	86.06%	5.460%
3	6.717	6.682	6.803	BB	535433	5388928	91.02%	5.775%
4	8.553	8.516	8.639	BB	509411	5413479	91.44%	5.801%
5	10.168	10.132	10.238	BB	518172	5640871	95.28%	6.045%
6	11.616	11.576	11.685	BB	526761	5920415	100.00%	6.344%
7	12.930	12.840	12.993	BB	493438	5842747	98.69%	6.261%
8	14.132	14.047	14.194	BB	480182	5785353	97.72%	6.200%
9	15.035	14.986	15.102	BV	363784	5246382	88.62%	5.622%
10	15.240	15.170	15.302	BB	459822	5748589	97.10%	6.160%
11	16.263	16.200	16.318	BB	419401	5623200	94.98%	6.026%
12	17.216	17.170	17.283	BB	410138	5503536	92.96%	5.898%
13	18.106	18.031	18.173	BB	410542	5464008	92.29%	5.855%
14	18.940	18.847	19.020	BV	370922	5350108	90.37%	5.733%
15	19.725	19.660	19.788	BV	351414	4934105	83.34%	5.287%
16	20.464	20.420	20.504	BV	282155	4275212	72.21%	4.581%
17	21.211	21.128	21.259	PV	205065	3809914	64.35%	4.083%
18	22.141	22.079	22.232	BV	128956	3308945	55.89%	3.546%
			Sum of corrected areas:			93316579		

FG030325.M Tue Mar 04 04:35:26 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015428.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 12:46
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 12:55:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:54:55 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...	15.033	2074987	19.754 ug/ml
	Target Compounds			
1)	N-OCTANE	1.995	2148272	20.628 ug/ml
2)	N-DECANE	4.532	2177756	20.487 ug/ml
3)	N-DODECANE	6.714	2260955	20.298 ug/ml
4)	N-TETRADECANE	8.550	2229154	20.147 ug/ml
5)	N-HEXADECANE	10.164	2282146	19.991 ug/ml
6)	N-OCTADECANE	11.613	2364724	19.866 ug/ml
7)	N-EICOSANE	12.927	2320604	19.815 ug/ml
8)	N-DOCOSANE	14.131	2288772	19.770 ug/ml
10)	N-TETRACOSANE	15.236	2273407	19.754 ug/ml
11)	N-HEXACOSANE	16.260	2233591	19.784 ug/ml
12)	N-OCTACOSANE	17.213	2200912	19.887 ug/ml
13)	N-TRIACONTANE	18.103	2201361	20.022 ug/ml
14)	N-DOTRIACONTANE	18.937	2193441	20.279 ug/ml
15)	N-TETRATRIACONTANE	19.720	2127511	20.968 ug/ml
16)	N-HEXATRIACONTANE	20.461	1988145	21.913 ug/ml
17)	N-OCTATRIACONTANE	21.208	1897196	22.973 ug/ml
18)	N-TETRACONTANE	22.140	1736732	23.868 ug/ml

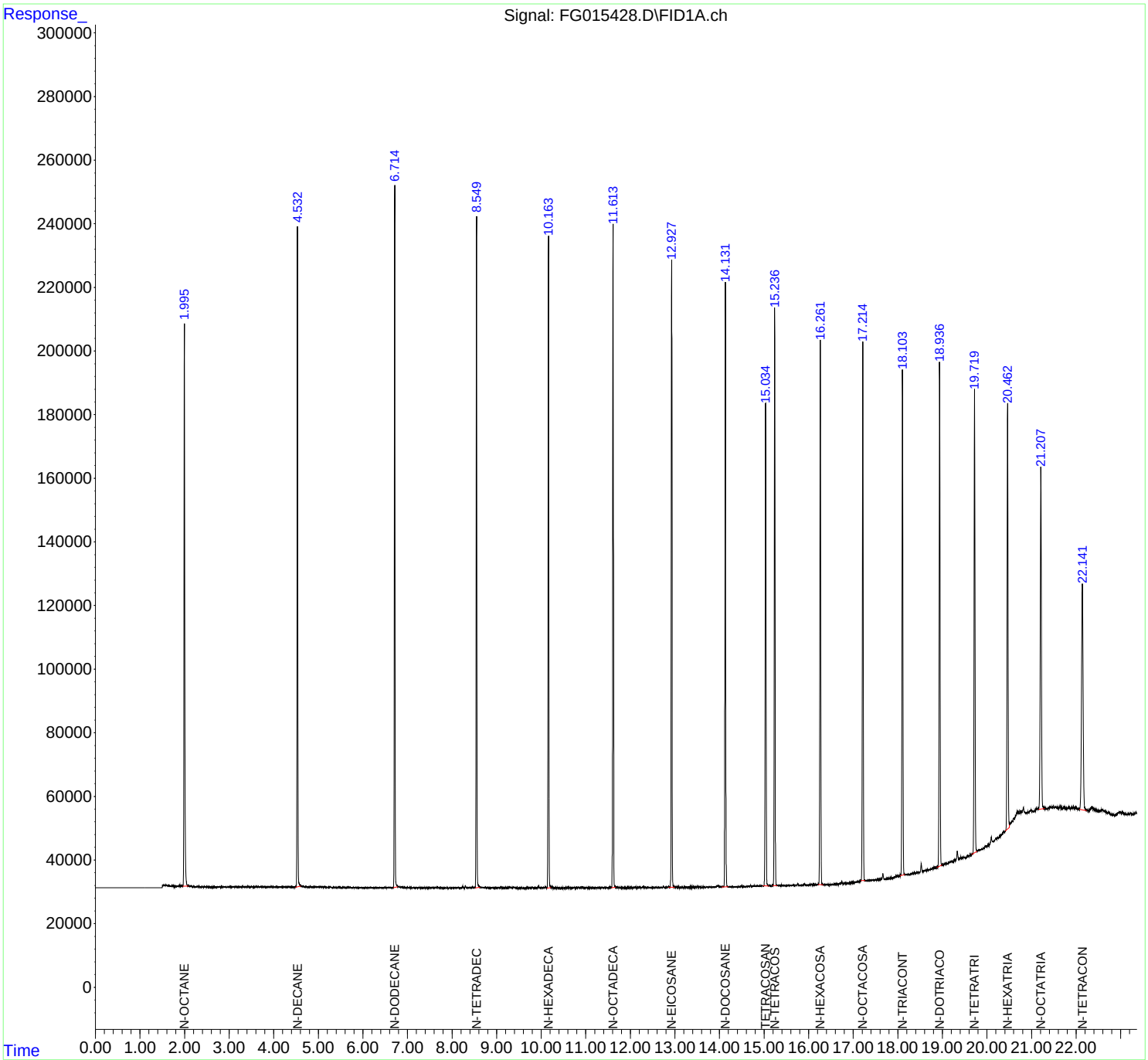
(f)=RT Delta > 1/2 Window (m)=manual int.

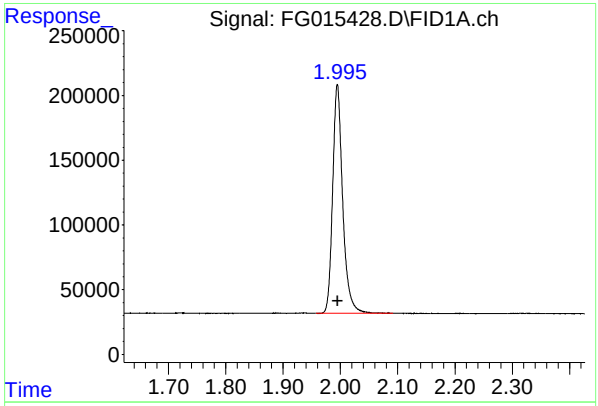
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015428.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 12:46
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 12:55:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:54:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

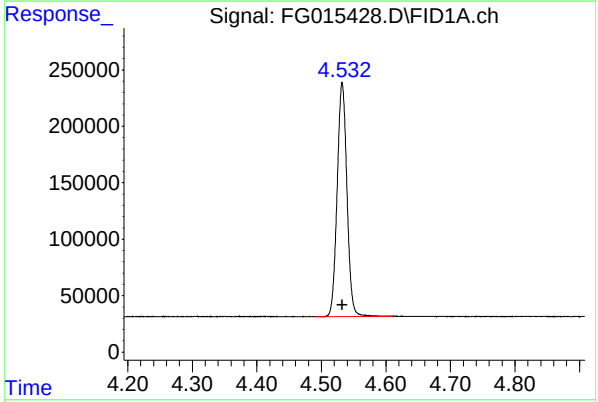




#1 N-OCTANE

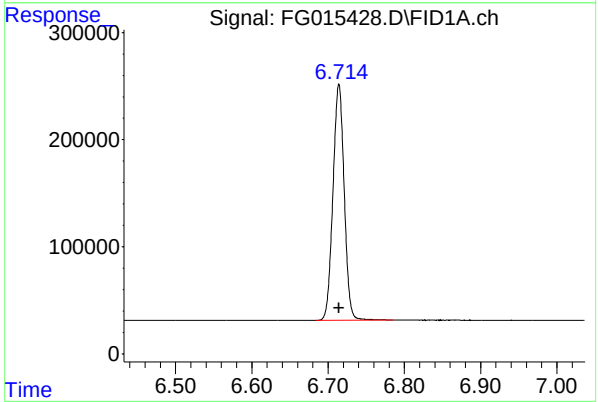
R.T.: 1.995 min
Delta R.T.: 0.000 min
Response: 2148272
Conc: 20.63 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



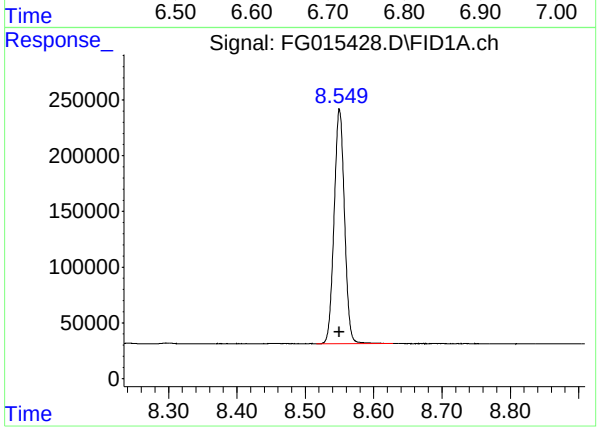
#2 N-DECANE

R.T.: 4.532 min
Delta R.T.: 0.000 min
Response: 2177756
Conc: 20.49 ug/ml



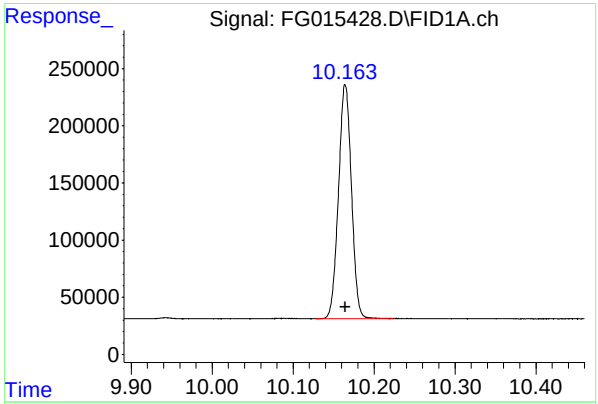
#3 N-DODECANE

R.T.: 6.714 min
Delta R.T.: 0.000 min
Response: 2260955
Conc: 20.30 ug/ml



#4 N-TETRADECANE

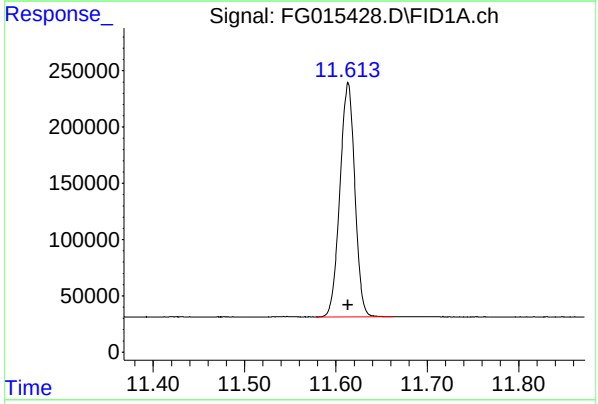
R.T.: 8.550 min
Delta R.T.: 0.000 min
Response: 2229154
Conc: 20.15 ug/ml



#5 N-HEXADECANE

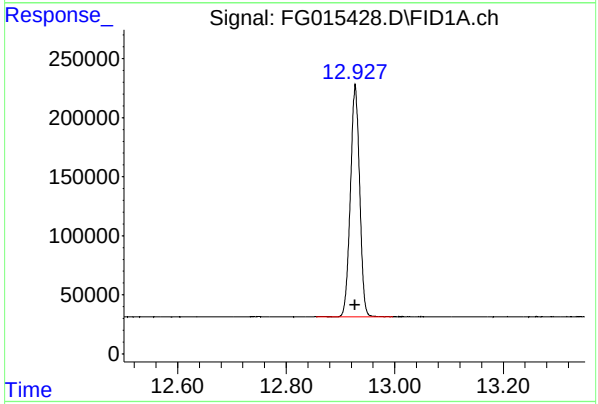
R.T.: 10.164 min
Delta R.T.: 0.000 min
Response: 2282146
Conc: 19.99 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



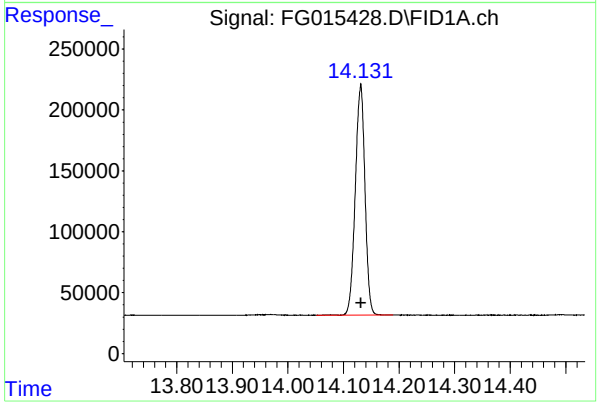
#6 N-OCTADECANE

R.T.: 11.613 min
Delta R.T.: 0.000 min
Response: 2364724
Conc: 19.87 ug/ml



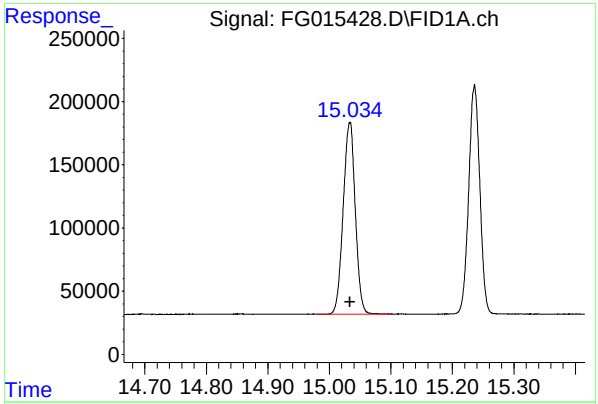
#7 N-EICOSANE

R.T.: 12.927 min
Delta R.T.: 0.000 min
Response: 2320604
Conc: 19.82 ug/ml



#8 N-DOCOSANE

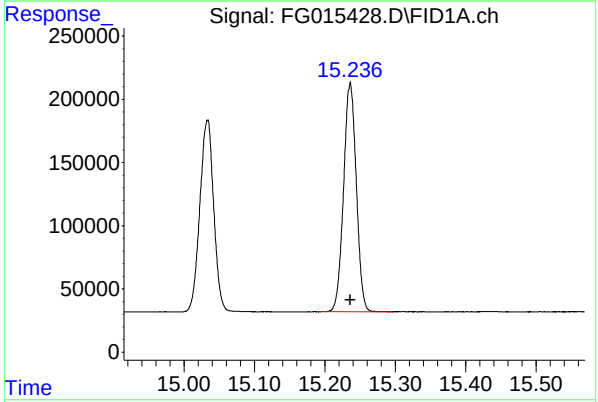
R.T.: 14.131 min
Delta R.T.: 0.000 min
Response: 2288772
Conc: 19.77 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

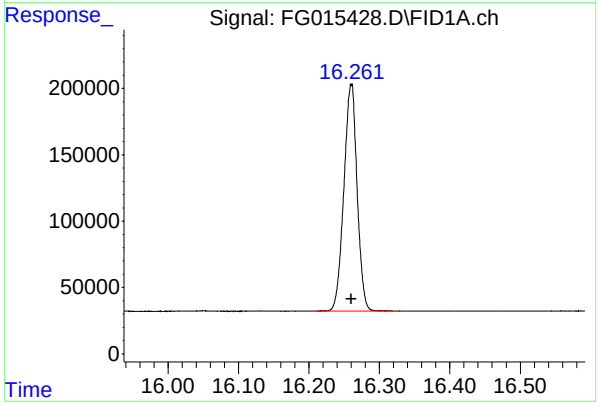
R.T.: 15.033 min
Delta R.T.: 0.000 min
Response: 2074987
Conc: 19.75 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



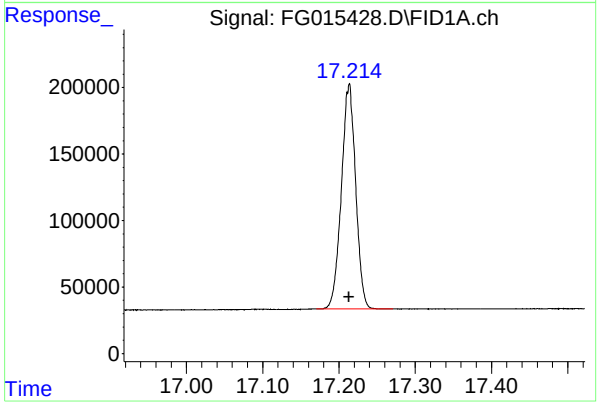
#10 N-TETRACOSANE

R.T.: 15.236 min
Delta R.T.: 0.000 min
Response: 2273407
Conc: 19.75 ug/ml



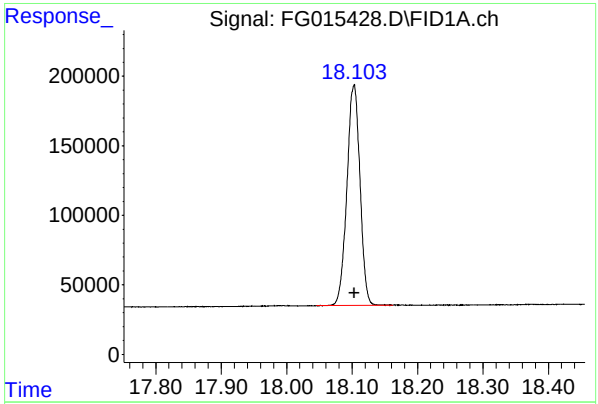
#11 N-HEXACOSANE

R.T.: 16.260 min
Delta R.T.: 0.000 min
Response: 2233591
Conc: 19.78 ug/ml



#12 N-OCTACOSANE

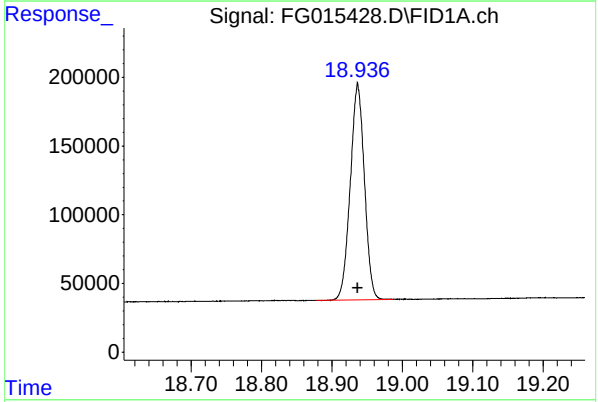
R.T.: 17.213 min
Delta R.T.: 0.000 min
Response: 2200912
Conc: 19.89 ug/ml



#13 N-TRIACONTANE

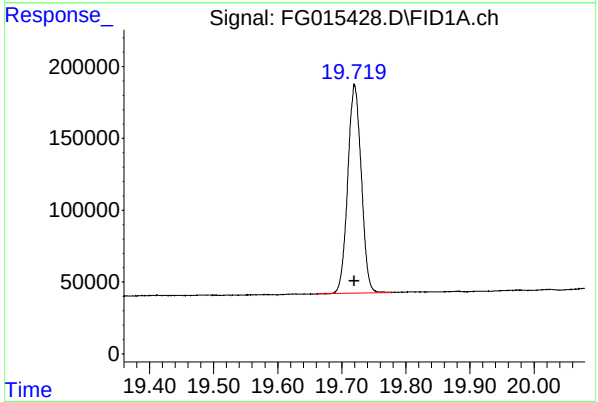
R.T.: 18.103 min
Delta R.T.: 0.000 min
Response: 2201361
Conc: 20.02 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



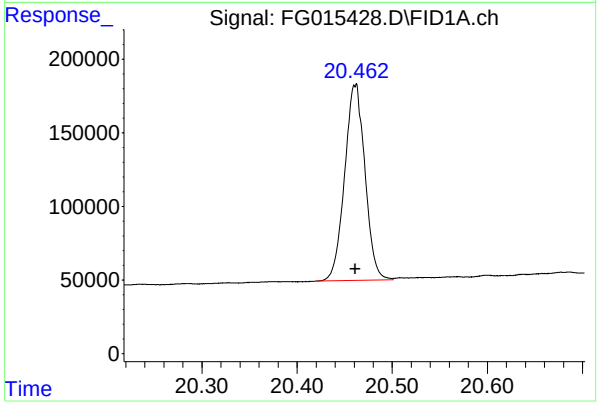
#14 N-DOTRIACONTANE

R.T.: 18.937 min
Delta R.T.: 0.000 min
Response: 2193441
Conc: 20.28 ug/ml



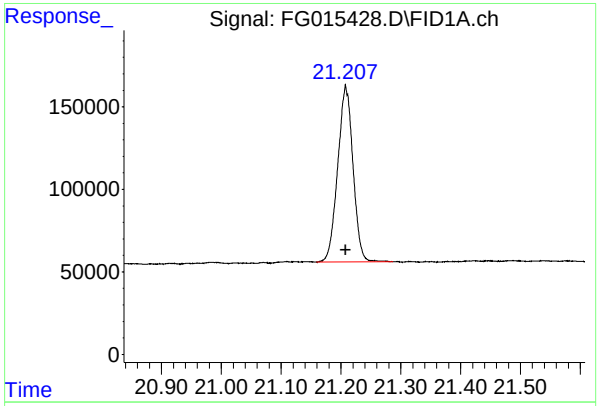
#15 N-TETRATRIACONTANE

R.T.: 19.720 min
Delta R.T.: 0.000 min
Response: 2127511
Conc: 20.97 ug/ml



#16 N-HEXATRIACONTANE

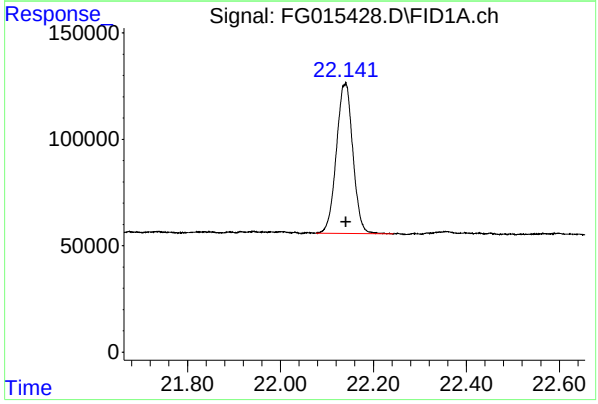
R.T.: 20.461 min
Delta R.T.: 0.000 min
Response: 1988145
Conc: 21.91 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.208 min
Delta R.T.: 0.000 min
Response: 1897196
Conc: 22.97 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.140 min
Delta R.T.: 0.000 min
Response: 1736732
Conc: 23.87 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015428.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 12:46
Sample : 20 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.995	1.958	2.092	BB	176911	2148272	90.85%	5.508%
2	4.532	4.492	4.611	BB	206925	2177756	92.09%	5.584%
3	6.714	6.684	6.785	BB	220617	2260955	95.61%	5.797%
4	8.550	8.516	8.628	BB	210226	2229154	94.27%	5.716%
5	10.164	10.128	10.223	BB	204739	2282146	96.51%	5.852%
6	11.613	11.578	11.663	BB	208205	2364724	100.00%	6.063%
7	12.927	12.855	12.997	BB	196430	2320604	98.13%	5.950%
8	14.131	14.051	14.189	BB	189095	2288772	96.79%	5.869%
9	15.033	14.978	15.103	BB	151271	2074987	87.75%	5.321%
10	15.236	15.188	15.297	BB	181219	2273407	96.14%	5.829%
11	16.260	16.210	16.319	BB	170302	2233591	94.45%	5.727%
12	17.213	17.170	17.271	BB	169119	2200912	93.07%	5.643%
13	18.103	18.045	18.163	BB	158748	2201361	93.09%	5.645%
14	18.937	18.878	18.987	BB	157872	2193441	92.76%	5.624%
15	19.720	19.660	19.780	BV	144198	2127511	89.97%	5.455%
16	20.461	20.420	20.501	BV	132042	1988145	84.08%	5.098%
17	21.208	21.159	21.287	PV	105790	1897196	80.23%	4.865%
18	22.140	22.077	22.242	PV	70549	1736732	73.44%	4.453%
			Sum of corrected areas:			38999663		

FG030325.M Tue Mar 04 04:35:56 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015429.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 13:16
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:42:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:56:04 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...	15.031	1127859	10.738 ug/ml
	Target Compounds			
1)	N-OCTANE	1.995	1157492	11.115 ug/ml
2)	N-DECANE	4.532	1169448	11.001 ug/ml
3)	N-DODECANE	6.714	1215352	10.911 ug/ml
4)	N-TETRADECANE	8.550	1198081	10.828 ug/ml
5)	N-HEXADECANE	10.165	1231825	10.790 ug/ml
6)	N-OCTADECANE	11.612	1286162	10.805 ug/ml
7)	N-EICOSANE	12.927	1256413	10.728 ug/ml
8)	N-DOCOSANE	14.130	1241010	10.720 ug/ml
10)	N-TETRACOSANE	15.235	1241496	10.788 ug/ml
11)	N-HEXACOSANE	16.259	1217452	10.784 ug/ml
12)	N-OCTACOSANE	17.213	1204505	10.883 ug/ml
13)	N-TRIACONTANE	18.102	1221633	11.111 ug/ml
14)	N-DOTRIACONTANE	18.935	1217726	11.258 ug/ml
15)	N-TETRATRIACONTANE	19.721	1136390	11.200 ug/ml
16)	N-HEXATRIACONTANE	20.461	1021219	11.256 ug/ml
17)	N-OCTATRIACONTANE	21.207	959048	11.613 ug/ml
18)	N-TETRACONTANE	22.139	944468	12.980 ug/ml

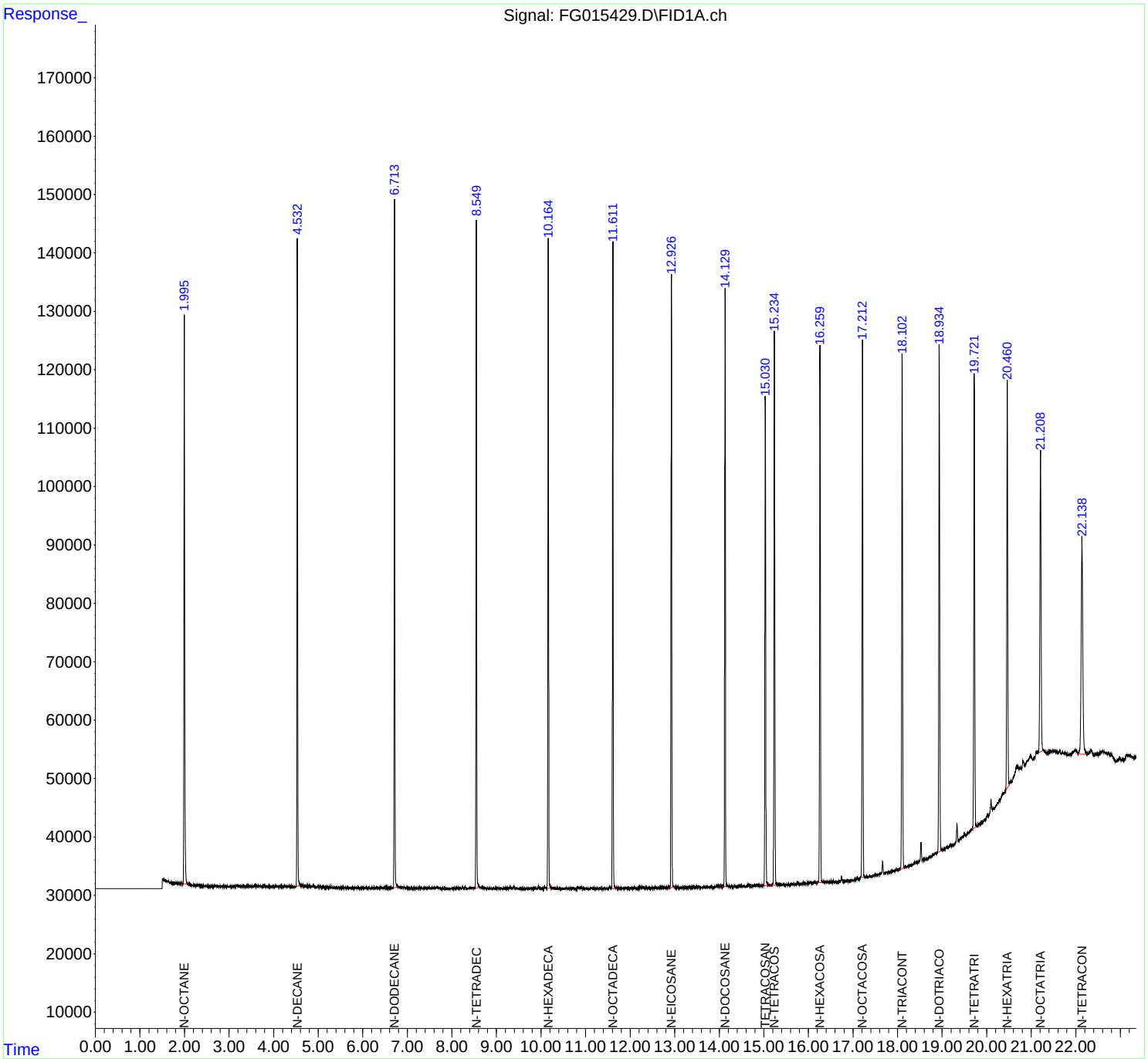
(f)=RT Delta > 1/2 Window (m)=manual int.

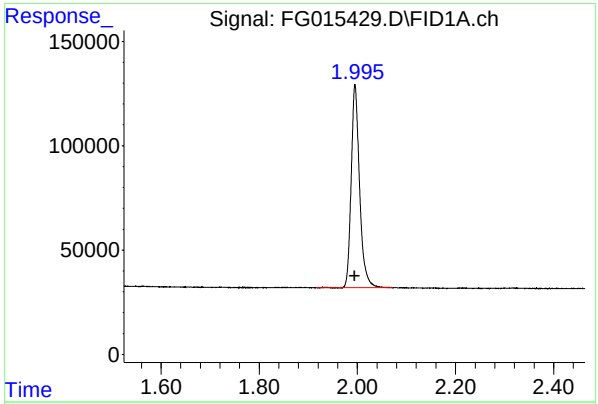
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015429.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 13:16
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 13:42:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 12:56:04 2025
Response via : Initial Calibration
Integrator: ChemStation

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

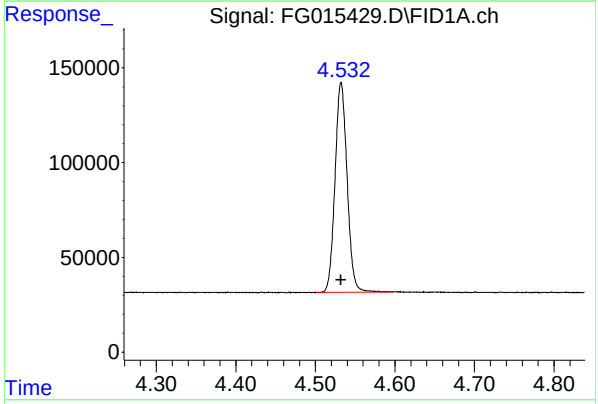




#1 N-OCTANE

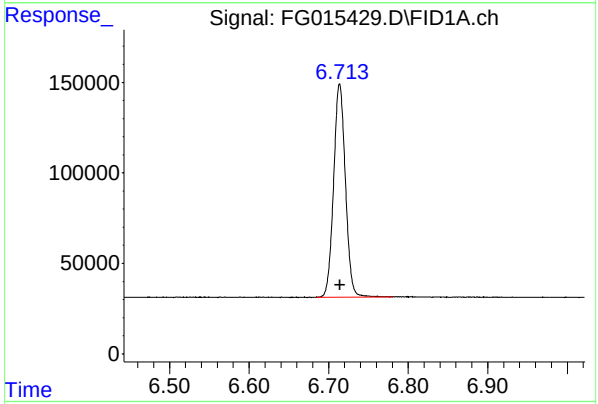
R.T.: 1.995 min
Delta R.T.: 0.000 min
Response: 1157492
Conc: 11.11 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



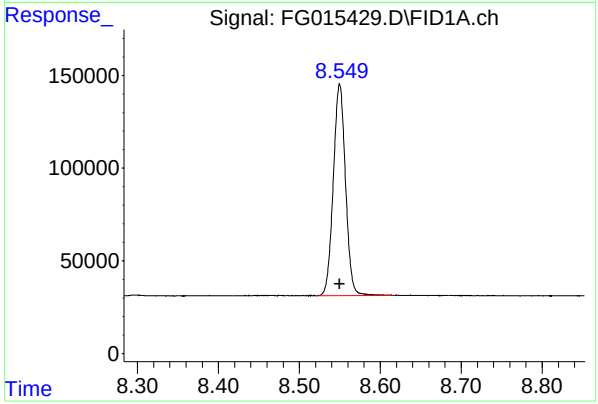
#2 N-DECANE

R.T.: 4.532 min
Delta R.T.: 0.000 min
Response: 1169448
Conc: 11.00 ug/ml



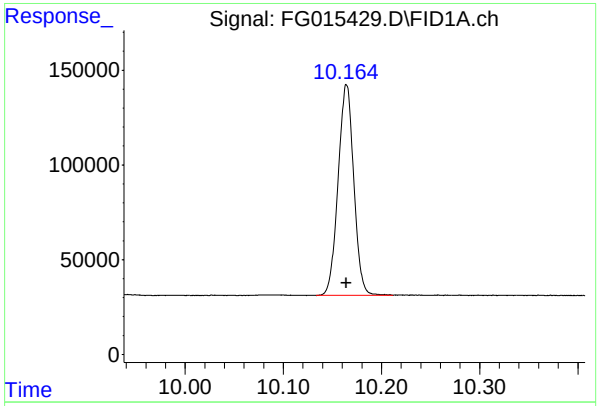
#3 N-DODECANE

R.T.: 6.714 min
Delta R.T.: 0.000 min
Response: 1215352
Conc: 10.91 ug/ml



#4 N-TETRADECANE

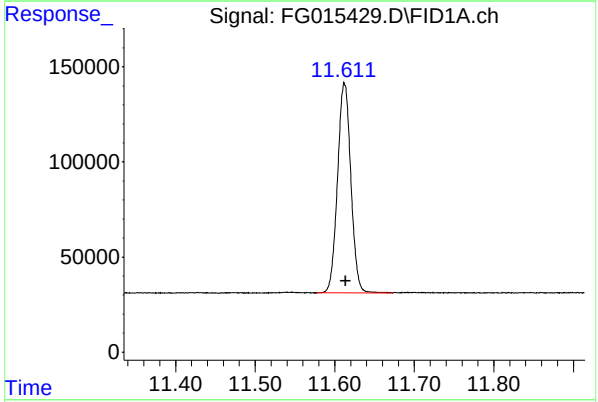
R.T.: 8.550 min
Delta R.T.: 0.000 min
Response: 1198081
Conc: 10.83 ug/ml



#5 N-HEXADECANE

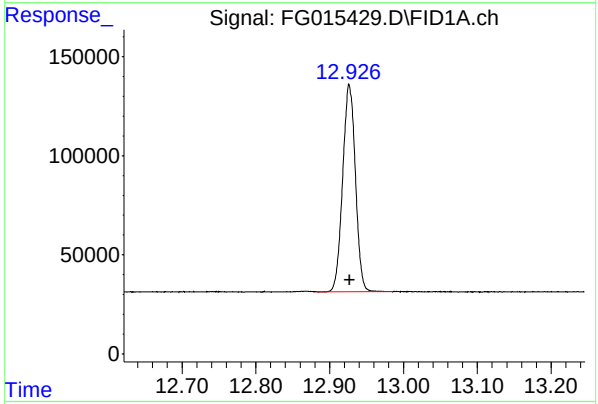
R.T.: 10.165 min
Delta R.T.: 0.000 min
Response: 1231825
Conc: 10.79 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



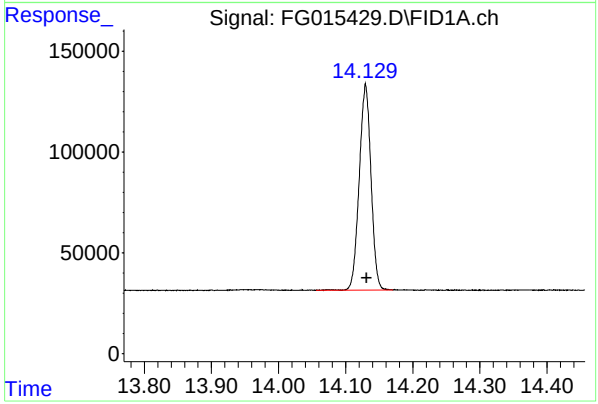
#6 N-OCTADECANE

R.T.: 11.612 min
Delta R.T.: -0.001 min
Response: 1286162
Conc: 10.80 ug/ml



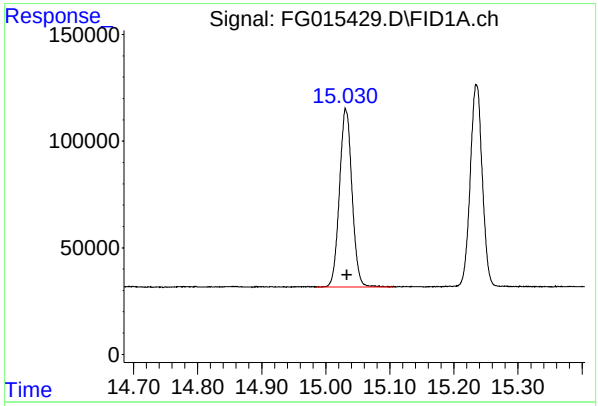
#7 N-EICOSANE

R.T.: 12.927 min
Delta R.T.: 0.000 min
Response: 1256413
Conc: 10.73 ug/ml



#8 N-DOCOSANE

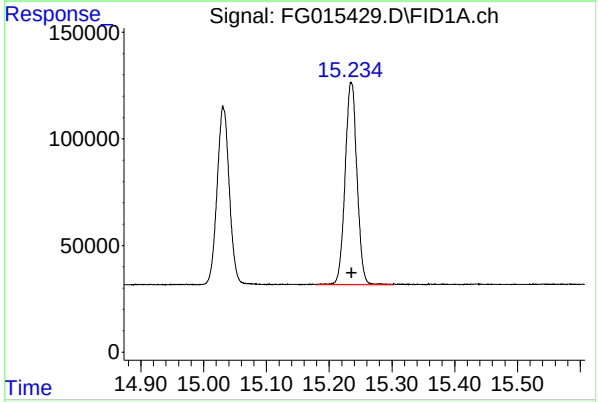
R.T.: 14.130 min
Delta R.T.: -0.001 min
Response: 1241010
Conc: 10.72 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

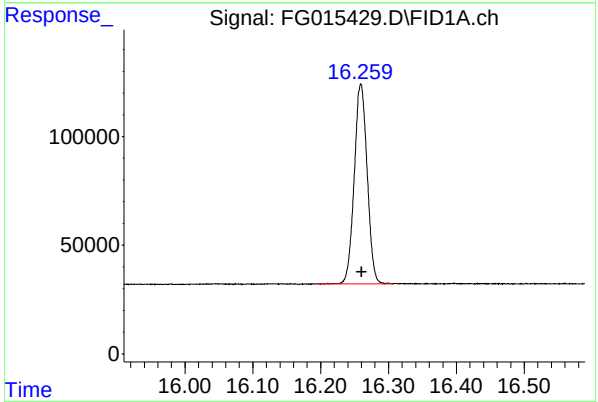
R.T.: 15.031 min
Delta R.T.: -0.002 min
Response: 1127859
Conc: 10.74 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



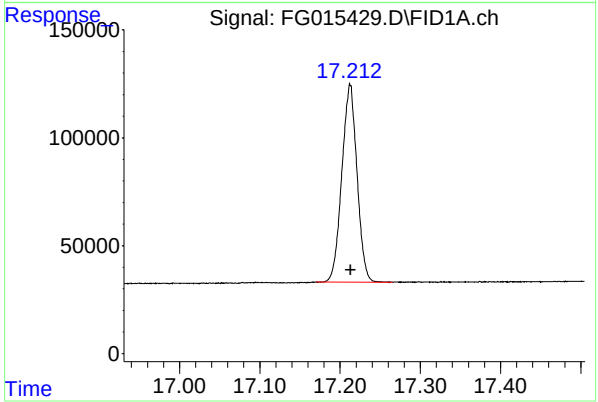
#10 N-TETRACOSANE

R.T.: 15.235 min
Delta R.T.: 0.000 min
Response: 1241496
Conc: 10.79 ug/ml



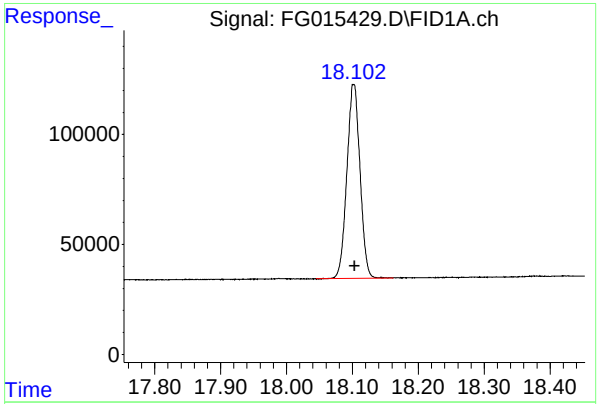
#11 N-HEXACOSANE

R.T.: 16.259 min
Delta R.T.: -0.001 min
Response: 1217452
Conc: 10.78 ug/ml



#12 N-OCTACOSANE

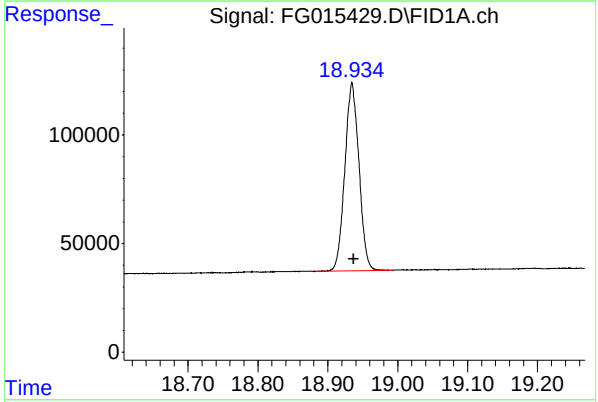
R.T.: 17.213 min
Delta R.T.: 0.000 min
Response: 1204505
Conc: 10.88 ug/ml



#13 N-TRIACONTANE

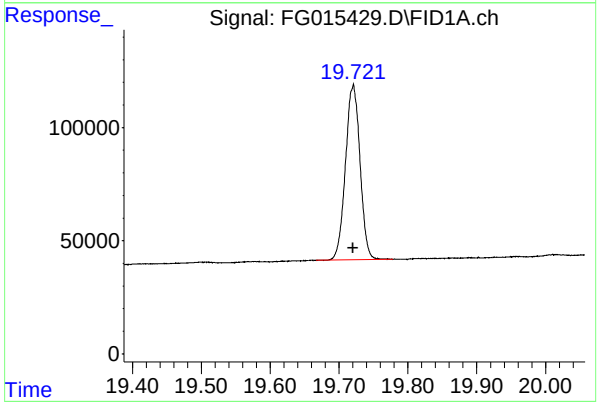
R.T.: 18.102 min
Delta R.T.: 0.000 min
Response: 1221633
Conc: 11.11 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



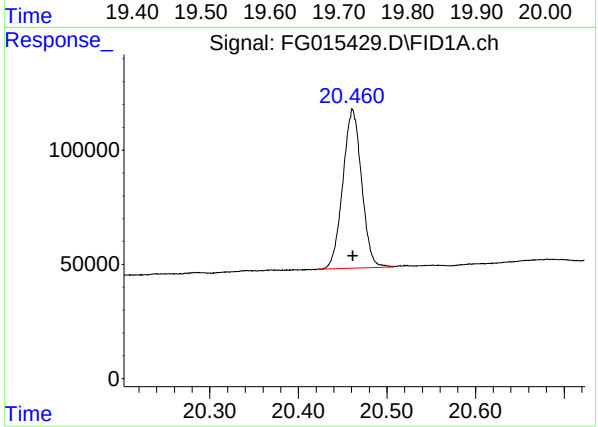
#14 N-DOTRIACONTANE

R.T.: 18.935 min
Delta R.T.: -0.002 min
Response: 1217726
Conc: 11.26 ug/ml



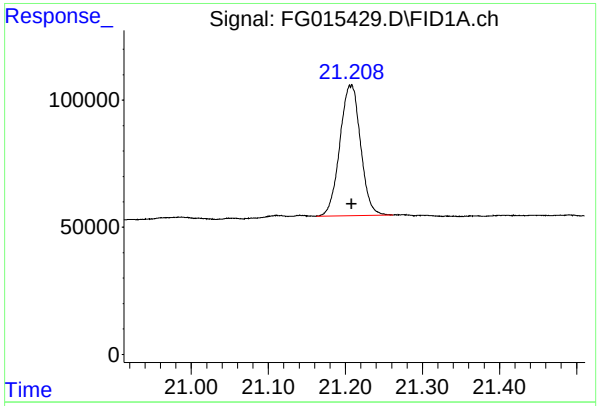
#15 N-TETRATRIACONTANE

R.T.: 19.721 min
Delta R.T.: 0.000 min
Response: 1136390
Conc: 11.20 ug/ml



#16 N-HEXATRIACONTANE

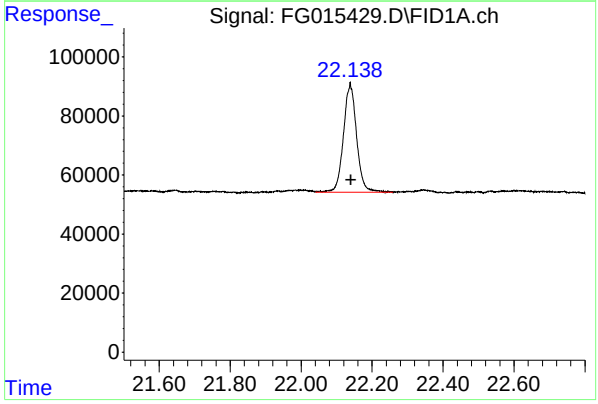
R.T.: 20.461 min
Delta R.T.: 0.000 min
Response: 1021219
Conc: 11.26 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.207 min
Delta R.T.: 0.000 min
Response: 959048
Conc: 11.61 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.139 min
Delta R.T.: -0.002 min
Response: 944468
Conc: 12.98 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015429.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 13:16
Sample : 10 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.995	1.916	2.073	BB	97394	1157492	90.00%	5.499%
2	4.532	4.501	4.598	BB	110922	1169448	90.93%	5.556%
3	6.714	6.684	6.781	BB	117974	1215352	94.49%	5.774%
4	8.550	8.521	8.616	BB	113981	1198081	93.15%	5.692%
5	10.165	10.133	10.212	BB	111301	1231825	95.78%	5.853%
6	11.612	11.577	11.673	BB	109600	1286162	100.00%	6.111%
7	12.927	12.882	12.986	BB	104438	1256413	97.69%	5.969%
8	14.130	14.056	14.170	BB	101948	1241010	96.49%	5.896%
9	15.031	14.985	15.105	BB	82702	1127859	87.69%	5.359%
10	15.235	15.179	15.302	BB	94460	1241496	96.53%	5.899%
11	16.259	16.193	16.307	BB	92020	1217452	94.66%	5.784%
12	17.213	17.170	17.266	BB	91615	1204505	93.65%	5.723%
13	18.102	18.045	18.162	BB	88189	1221633	94.98%	5.804%
14	18.935	18.883	18.993	BV	86833	1217726	94.68%	5.786%
15	19.721	19.667	19.778	BB	77535	1136390	88.36%	5.399%
16	20.461	20.420	20.507	BV	69773	1021219	79.40%	4.852%
17	21.207	21.162	21.262	PV	50751	959048	74.57%	4.557%
18	22.139	22.042	22.259	VV	37132	944468	73.43%	4.487%
			Sum of corrected areas:			21047577		

FG030325.M Tue Mar 04 04:36:22 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015430.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 13:45
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 14:05:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:05:07 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...	15.031	582412	5.349 ug/ml
Target Compounds				
1)	N-OCTANE	1.996	607303	5.525 ug/ml
2)	N-DECANE	4.532	602630	5.416 ug/ml
3)	N-DODECANE	6.714	627003	5.395 ug/ml
4)	N-TETRADECANE	8.550	621997	5.398 ug/ml
5)	N-HEXADECANE	10.164	638977	5.384 ug/ml
6)	N-OCTADECANE	11.612	667549	5.390 ug/ml
7)	N-EICOSANE	12.926	651839	5.366 ug/ml
8)	N-DOCOSANE	14.129	636203	5.314 ug/ml
10)	N-TETRACOSANE	15.235	638341	5.346 ug/ml
11)	N-HEXACOSANE	16.258	631568	5.382 ug/ml
12)	N-OCTACOSANE	17.211	631460	5.455 ug/ml
13)	N-TRIACONTANE	18.100	644513	5.547 ug/ml
14)	N-DOTRIACONTANE	18.935	653005	5.660 ug/ml
15)	N-TETRATRIACONTANE	19.719	594705	5.538 ug/ml
16)	N-HEXATRIACONTANE	20.459	525108	5.477 ug/ml
17)	N-OCTATRIACONTANE	21.205	512891	5.747 ug/ml
18)	N-TETRACONTANE	22.134	487248	5.994 ug/ml

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

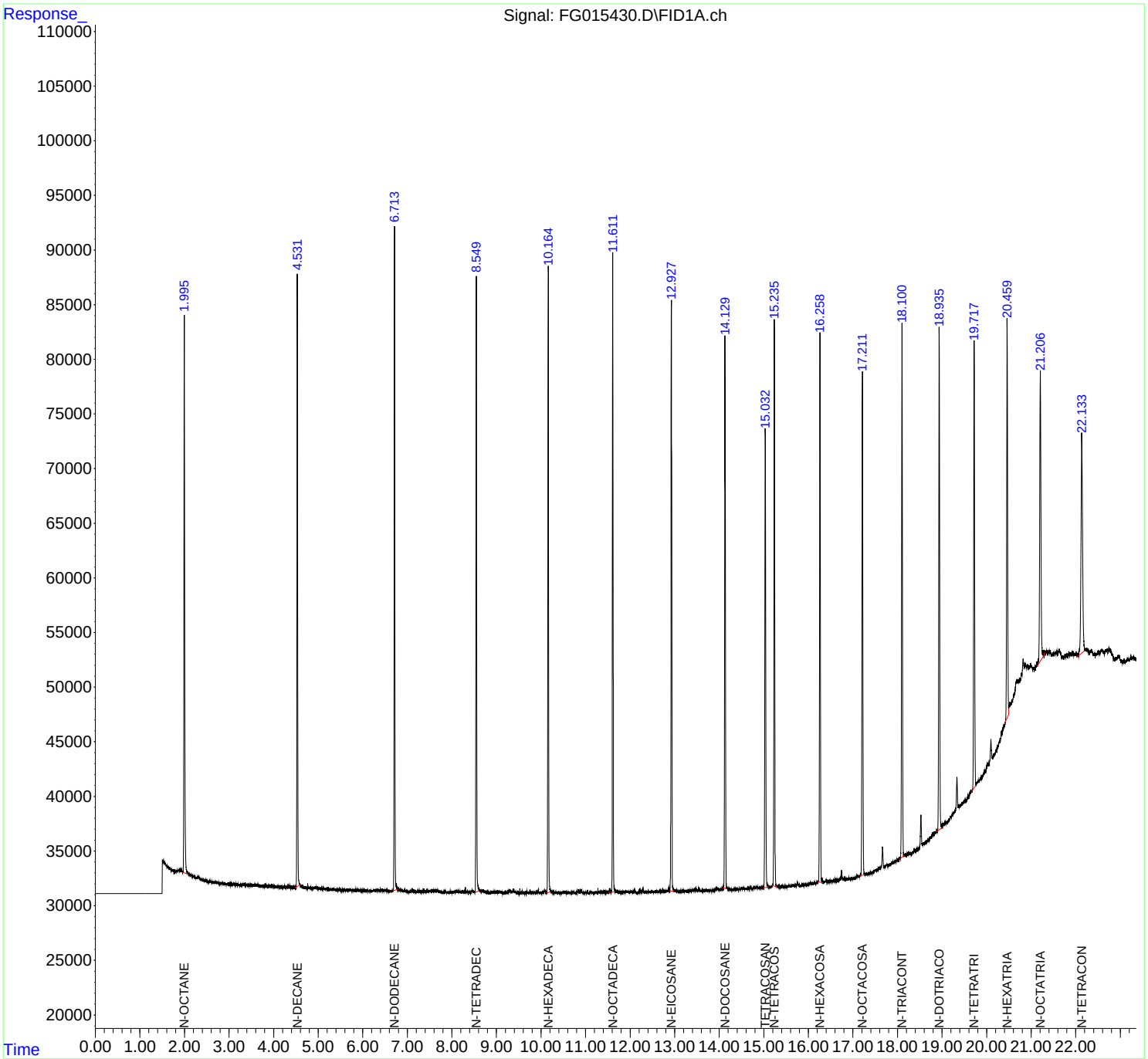
Quantitation Report (QT Reviewed)

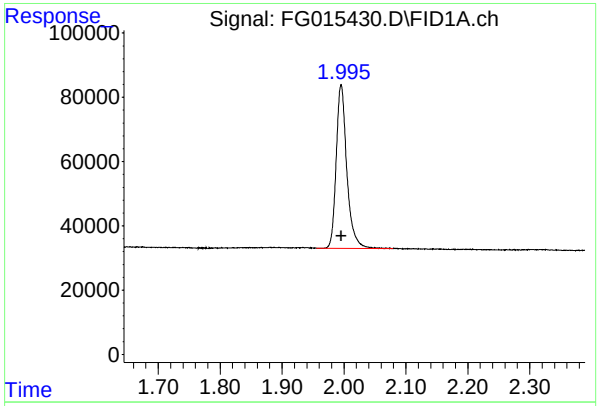
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015430.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 13:45
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Mar 03 14:05:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:05:07 2025
Response via : Initial Calibration
Integrator: ChemStation

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

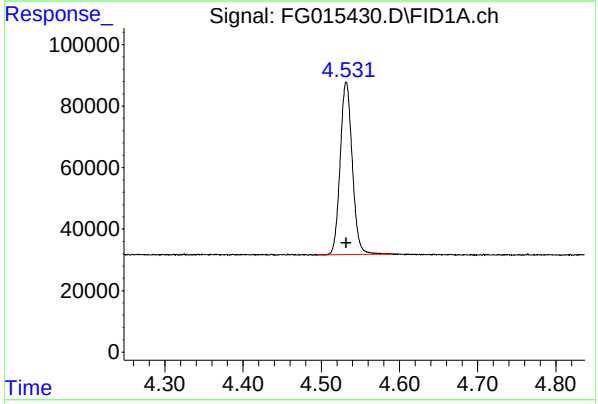




#1 N-OCTANE

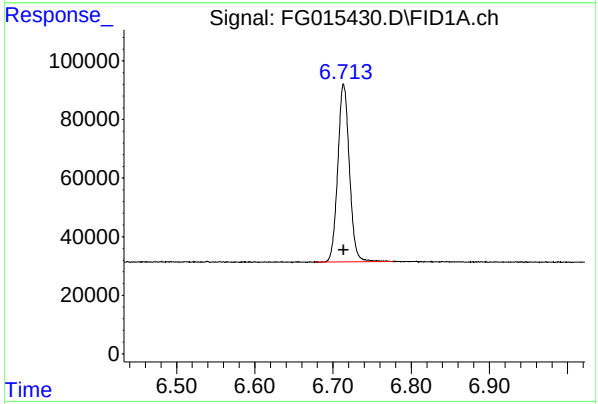
R.T.: 1.996 min
Delta R.T.: 0.000 min
Response: 607303
Conc: 5.52 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



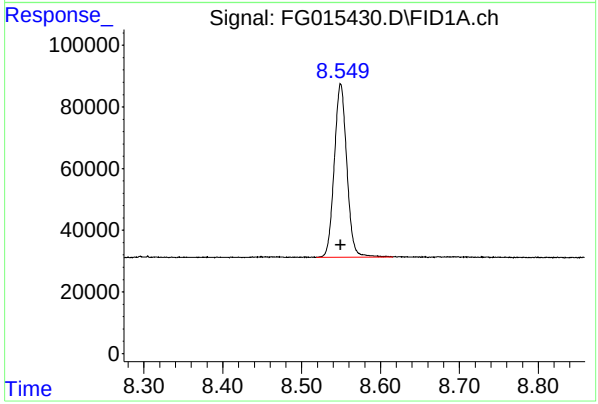
#2 N-DECANE

R.T.: 4.532 min
Delta R.T.: 0.000 min
Response: 602630
Conc: 5.42 ug/ml



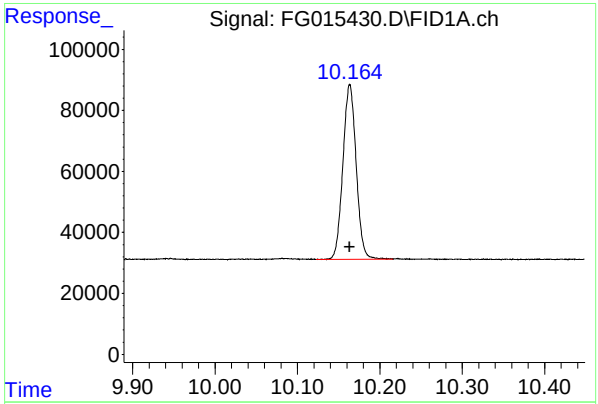
#3 N-DODECANE

R.T.: 6.714 min
Delta R.T.: 0.000 min
Response: 627003
Conc: 5.40 ug/ml



#4 N-TETRADECANE

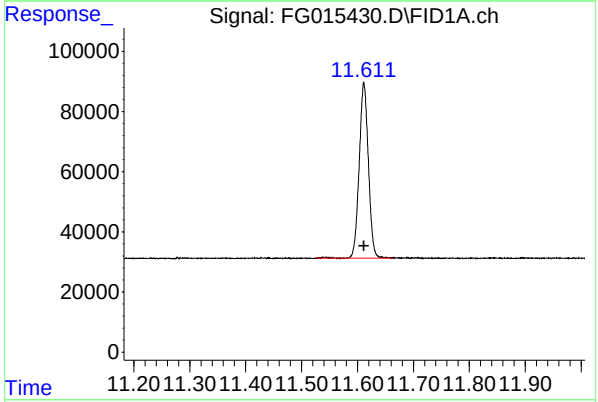
R.T.: 8.550 min
Delta R.T.: 0.000 min
Response: 621997
Conc: 5.40 ug/ml



#5 N-HEXADECANE

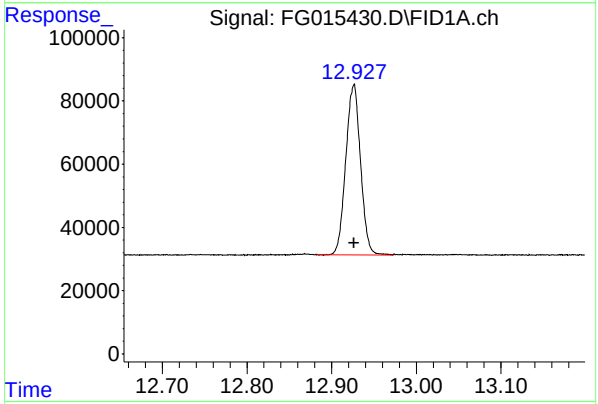
R.T.: 10.164 min
Delta R.T.: 0.000 min
Response: 638977
Conc: 5.38 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



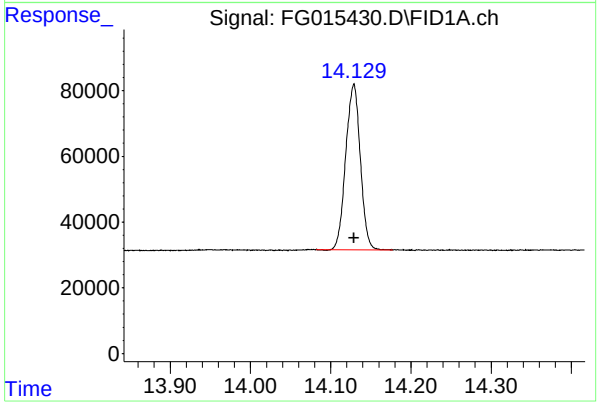
#6 N-OCTADECANE

R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 667549
Conc: 5.39 ug/ml



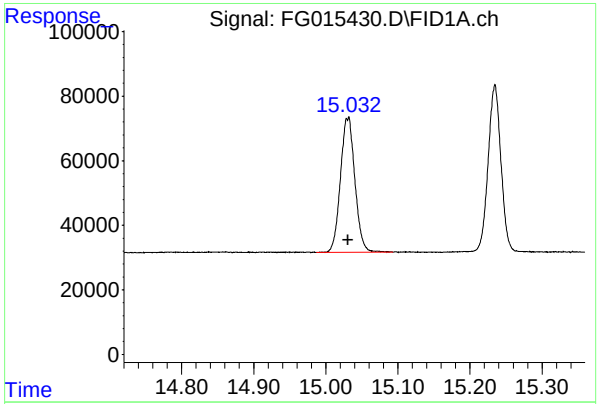
#7 N-EICOSANE

R.T.: 12.926 min
Delta R.T.: 0.000 min
Response: 651839
Conc: 5.37 ug/ml



#8 N-DOCOSANE

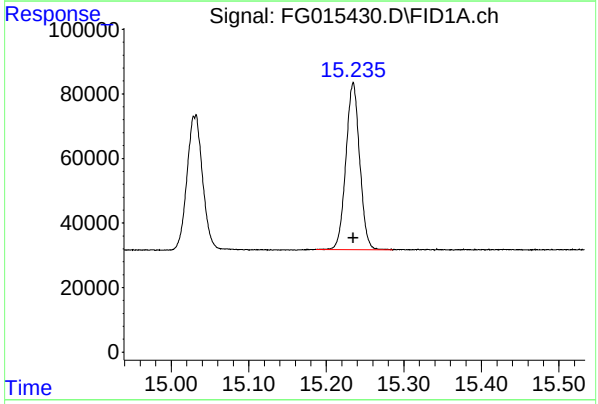
R.T.: 14.129 min
Delta R.T.: 0.000 min
Response: 636203
Conc: 5.31 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

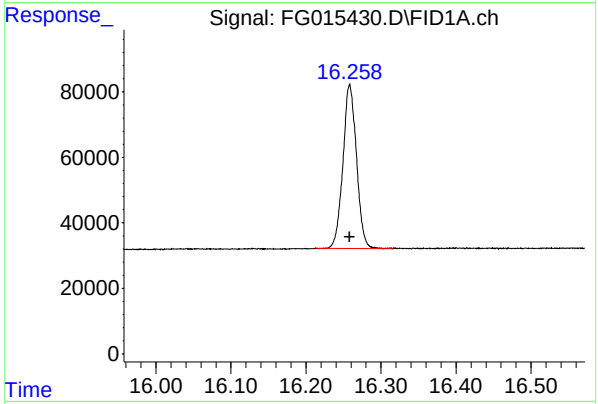
R.T.: 15.031 min
Delta R.T.: 0.000 min
Response: 582412
Conc: 5.35 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



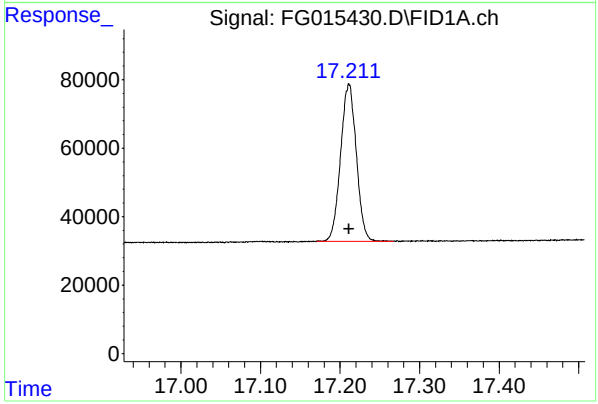
#10 N-TETRACOSANE

R.T.: 15.235 min
Delta R.T.: 0.000 min
Response: 638341
Conc: 5.35 ug/ml



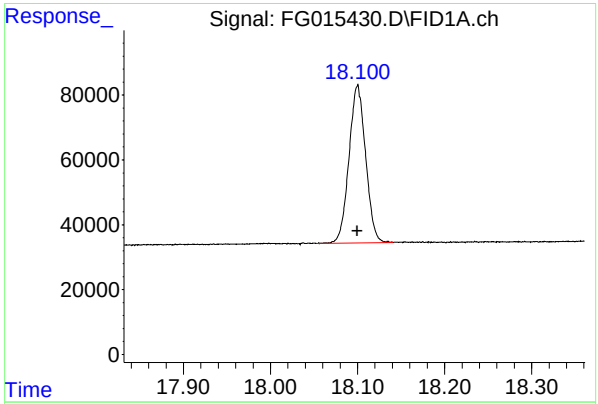
#11 N-HEXACOSANE

R.T.: 16.258 min
Delta R.T.: 0.000 min
Response: 631568
Conc: 5.38 ug/ml



#12 N-OCTACOSANE

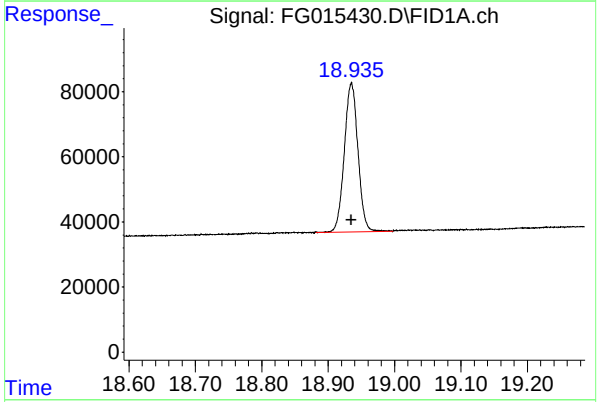
R.T.: 17.211 min
Delta R.T.: 0.000 min
Response: 631460
Conc: 5.46 ug/ml



#13 N-TRIACONTANE

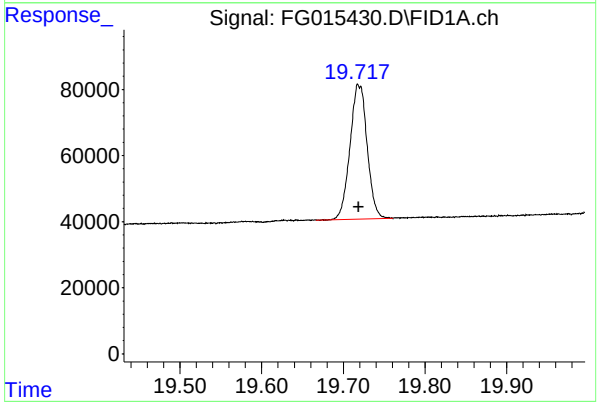
R.T.: 18.100 min
Delta R.T.: 0.000 min
Response: 644513
Conc: 5.55 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



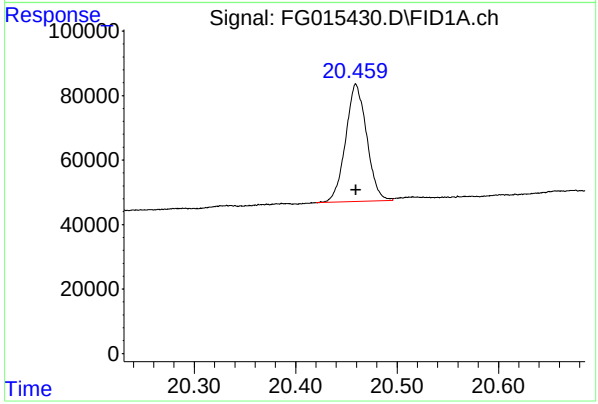
#14 N-DOTRIACONTANE

R.T.: 18.935 min
Delta R.T.: 0.000 min
Response: 653005
Conc: 5.66 ug/ml



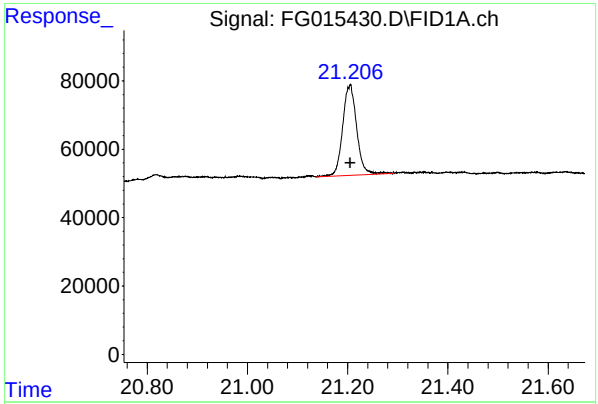
#15 N-TETRATRIACONTANE

R.T.: 19.719 min
Delta R.T.: 0.000 min
Response: 594705
Conc: 5.54 ug/ml



#16 N-HEXATRIACONTANE

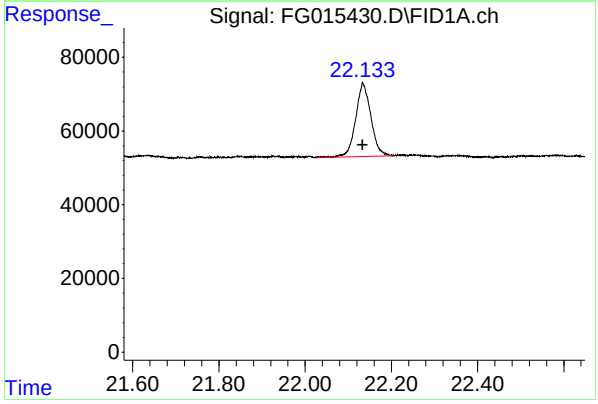
R.T.: 20.459 min
Delta R.T.: 0.000 min
Response: 525108
Conc: 5.48 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.205 min
Delta R.T.: 0.000 mi
Response: 512891
Conc: 5.75 ug/m

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.134 min
Delta R.T.: 0.001 min
Response: 487248
Conc: 5.99 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015430.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 13:45
Sample : 5 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.996	1.955	2.079	BB	50948	607303	90.98%	5.544%
2	4.532	4.493	4.592	BB	56085	602630	90.28%	5.501%
3	6.714	6.678	6.777	BB	60634	627003	93.93%	5.724%
4	8.550	8.518	8.616	BB	56297	621997	93.18%	5.678%
5	10.164	10.123	10.216	BB	57156	638977	95.72%	5.833%
6	11.612	11.526	11.663	BB	58296	667549	100.00%	6.094%
7	12.926	12.882	12.973	BB	54028	651839	97.65%	5.950%
8	14.129	14.082	14.178	BB	50555	636203	95.30%	5.808%
9	15.031	14.987	15.093	BB	41140	582412	87.25%	5.317%
10	15.235	15.187	15.286	BB	51964	638341	95.62%	5.827%
11	16.258	16.213	16.316	BB	50250	631568	94.61%	5.765%
12	17.211	17.170	17.267	BB	45758	631460	94.59%	5.764%
13	18.100	18.053	18.141	BB	48458	644513	96.55%	5.883%
14	18.935	18.882	18.998	BB	45815	653005	97.82%	5.961%
15	19.719	19.667	19.761	BB	40506	594705	89.09%	5.429%
16	20.459	20.420	20.496	BV	36464	525108	78.66%	4.793%
17	21.205	21.137	21.290	PV	26585	512891	76.83%	4.682%
18	22.134	22.025	22.204	PV	19983	487248	72.99%	4.448%
			Sum of corrected areas:			10954752		

FG030325.M Tue Mar 04 04:36:55 2025

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015431.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 14:14
Operator : YP\AJ
Sample : FG030325ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
FG030325ICV

Integration File: autoint1.e
Quant Time: Mar 03 14:23:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.034	5263594	48.344 ug/ml
	Target Compounds			
1)	N-OCTANE	1.994	5256960	47.822 ug/ml
2)	N-DECANE	4.533	5337269	47.965 ug/ml
3)	N-DODECANE	6.716	5569532	47.923 ug/ml
4)	N-TETRADECANE	8.552	5518504	47.892 ug/ml
5)	N-HEXADECANE	10.166	5694355	47.976 ug/ml
6)	N-OCTADECANE	11.615	5937044	47.939 ug/ml
7)	N-EICOSANE	12.930	5852161	48.178 ug/ml
8)	N-DOCOSANE	14.133	5795980	48.409 ug/ml
10)	N-TETRACOSANE	15.240	5777408	48.381 ug/ml
11)	N-HEXACOSANE	16.263	5673674	48.349 ug/ml
12)	N-OCTACOSANE	17.215	5564382	48.071 ug/ml
13)	N-TRIACONTANE	18.104	5525262	47.557 ug/ml
14)	N-DOTRIACONTANE	18.939	5396274	46.773 ug/ml
15)	N-TETRATRIACONTANE	19.723	4919040	45.803 ug/ml
16)	N-HEXATRIACONTANE	20.463	4197870	43.789 ug/ml
17)	N-OCTATRIACONTANE	21.207	3585023	40.170 ug/ml
18)	N-TETRACONTANE	22.139	2930060	35.716 ug/ml

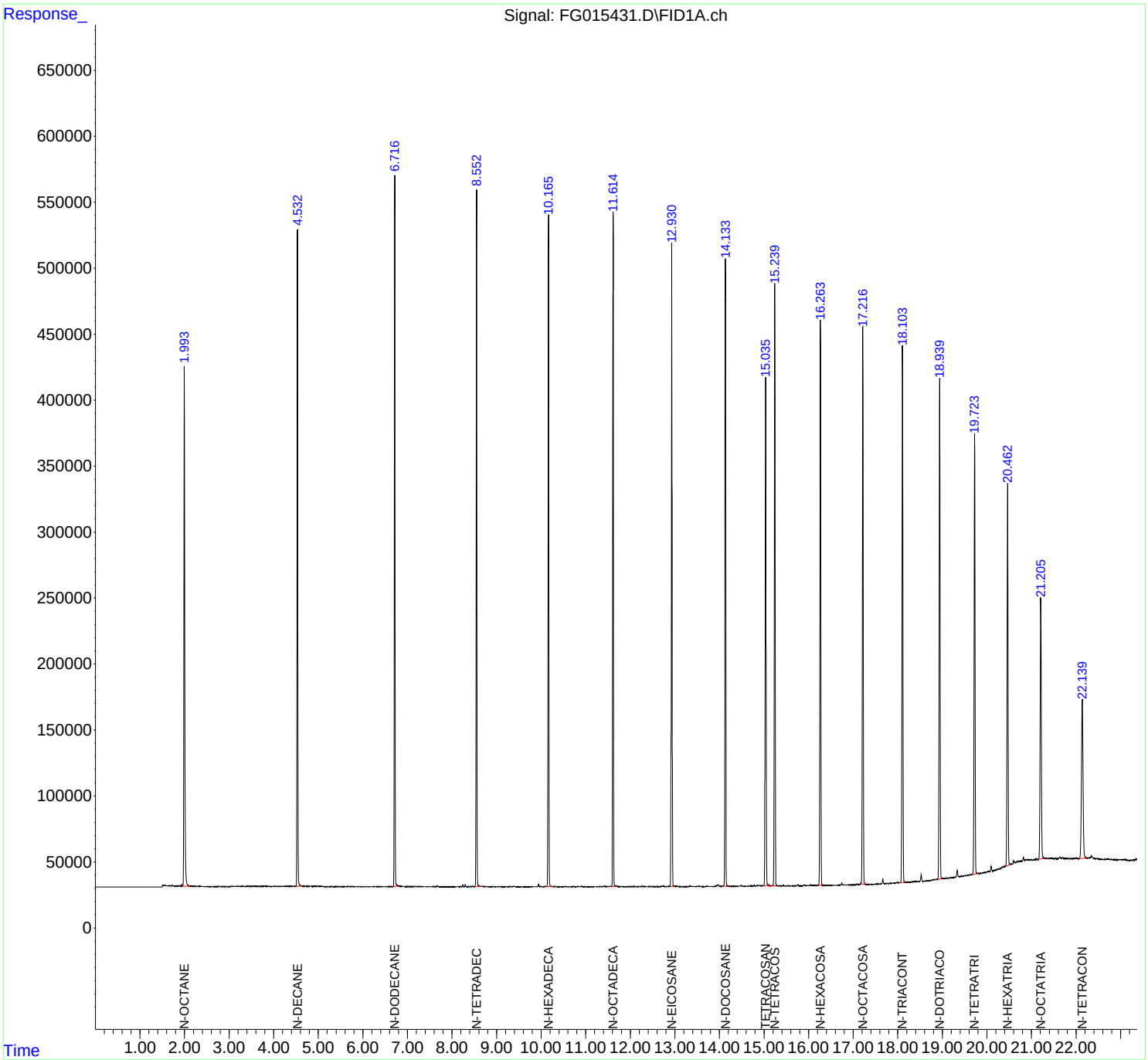
(f)=RT Delta > 1/2 Window (m)=manual int.

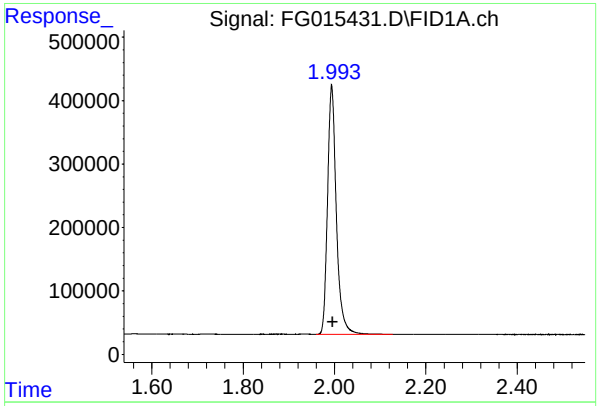
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015431.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 14:14
Operator : YP\AJ
Sample : FG030325ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
FG030325ICV

Integration File: autoint1.e
Quant Time: Mar 03 14:23:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

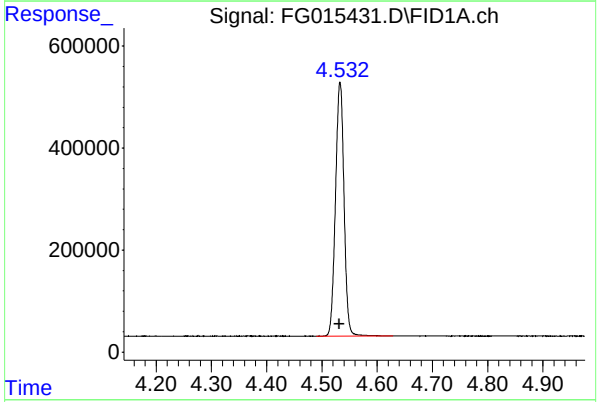




#1 N-OCTANE

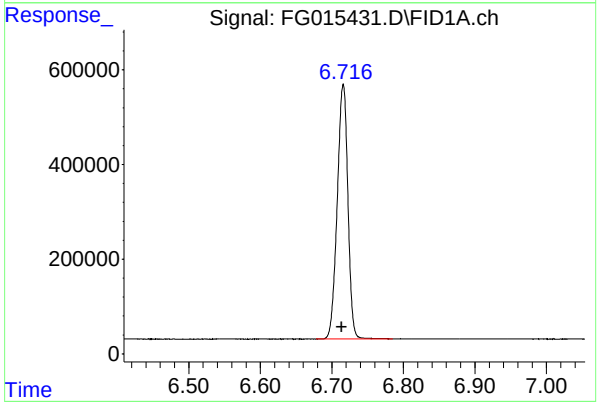
R.T.: 1.994 min
Delta R.T.: -0.002 min
Response: 5256960
Conc: 47.82 ug/ml

Instrument :
FID_G
ClientSampleId :
FG030325ICV



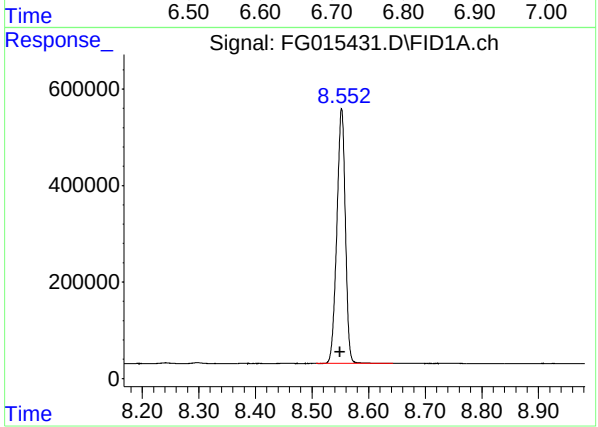
#2 N-DECANE

R.T.: 4.533 min
Delta R.T.: 0.000 min
Response: 5337269
Conc: 47.97 ug/ml



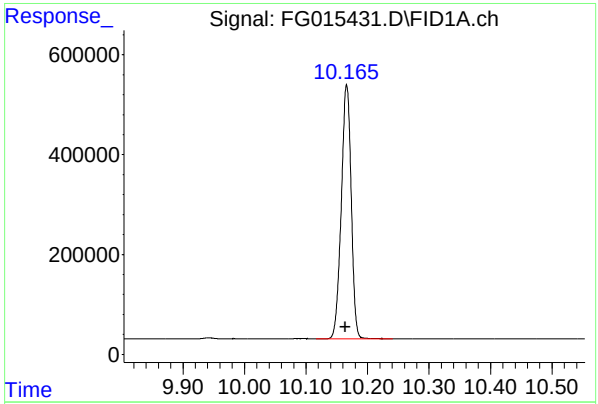
#3 N-DODECANE

R.T.: 6.716 min
Delta R.T.: 0.002 min
Response: 5569532
Conc: 47.92 ug/ml



#4 N-TETRADECANE

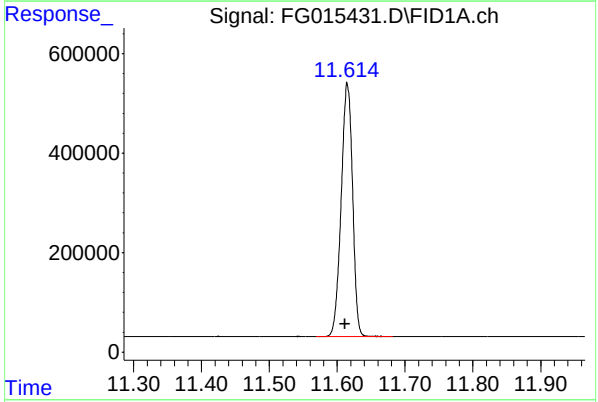
R.T.: 8.552 min
Delta R.T.: 0.003 min
Response: 5518504
Conc: 47.89 ug/ml



#5 N-HEXADECANE

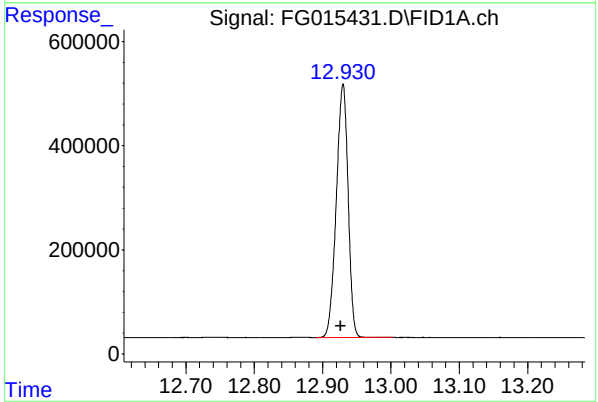
R.T.: 10.166 min
Delta R.T.: 0.003 min
Response: 5694355
Conc: 47.98 ug/ml

Instrument :
FID_G
ClientSampleId :
FG030325ICV



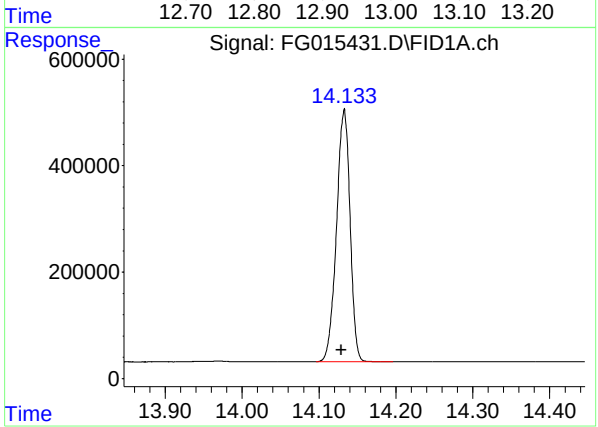
#6 N-OCTADECANE

R.T.: 11.615 min
Delta R.T.: 0.003 min
Response: 5937044
Conc: 47.94 ug/ml



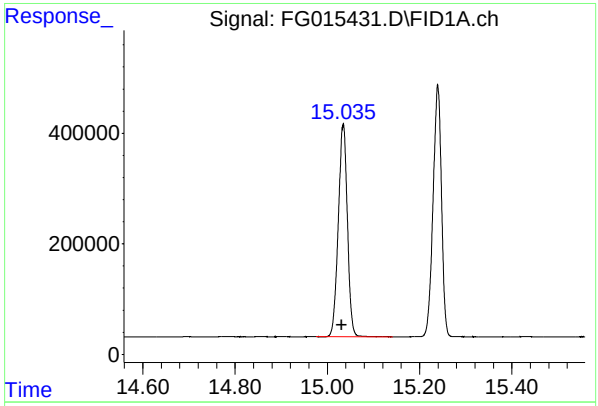
#7 N-EICOSANE

R.T.: 12.930 min
Delta R.T.: 0.004 min
Response: 5852161
Conc: 48.18 ug/ml



#8 N-DOCOSANE

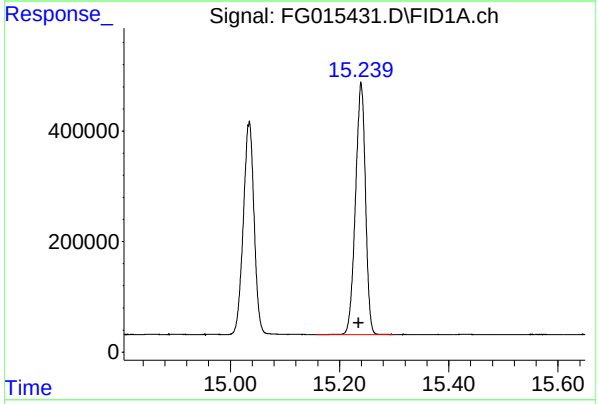
R.T.: 14.133 min
Delta R.T.: 0.004 min
Response: 5795980
Conc: 48.41 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

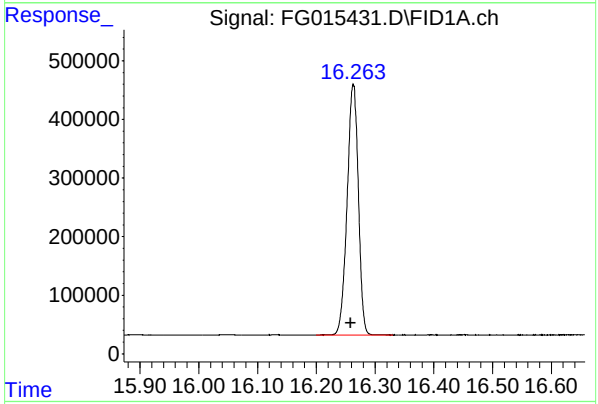
R.T.: 15.034 min
Delta R.T.: 0.003 min
Response: 5263594
Conc: 48.34 ug/ml

Instrument :
FID_G
ClientSampleId :
FG030325ICV



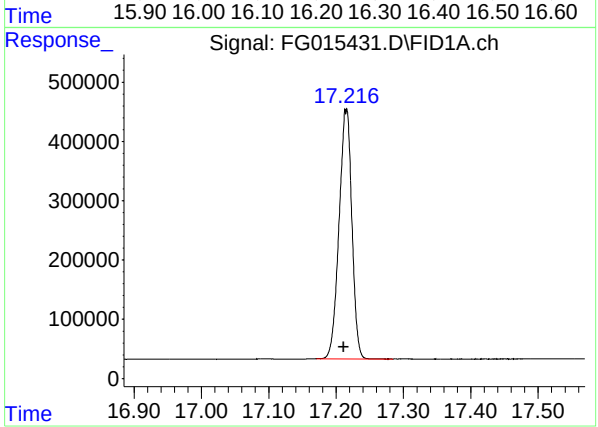
#10 N-TETRACOSANE

R.T.: 15.240 min
Delta R.T.: 0.005 min
Response: 5777408
Conc: 48.38 ug/ml



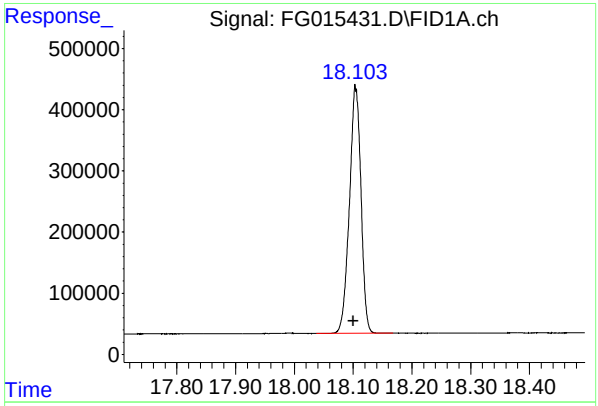
#11 N-HEXACOSANE

R.T.: 16.263 min
Delta R.T.: 0.005 min
Response: 5673674
Conc: 48.35 ug/ml



#12 N-OCTACOSANE

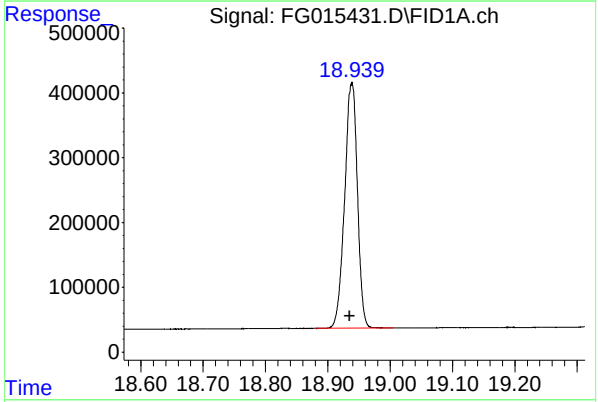
R.T.: 17.215 min
Delta R.T.: 0.004 min
Response: 5564382
Conc: 48.07 ug/ml



#13 N-TRIACONTANE

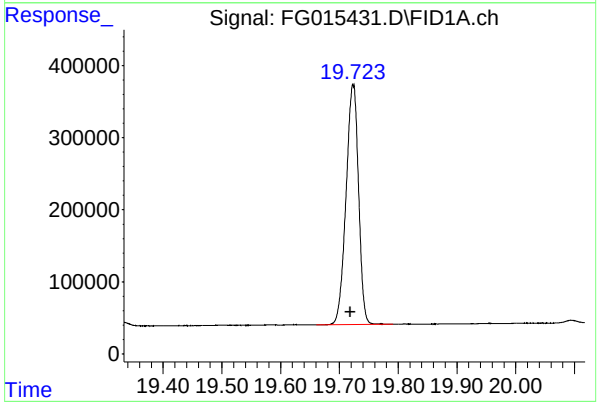
R.T.: 18.104 min
Delta R.T.: 0.004 min
Response: 5525262
Conc: 47.56 ug/ml

Instrument :
FID_G
ClientSampleId :
FG030325ICV



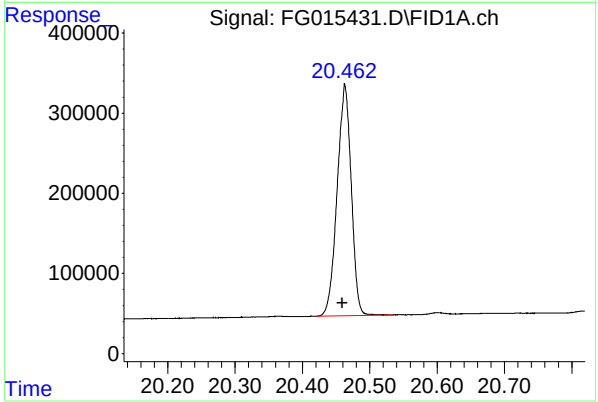
#14 N-DOTRIACONTANE

R.T.: 18.939 min
Delta R.T.: 0.004 min
Response: 5396274
Conc: 46.77 ug/ml



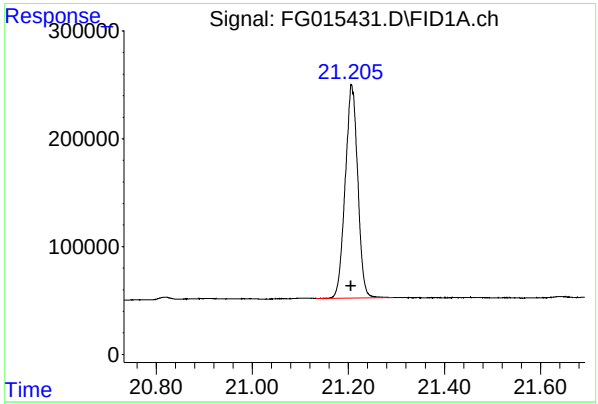
#15 N-TETRATRIACONTANE

R.T.: 19.723 min
Delta R.T.: 0.005 min
Response: 4919040
Conc: 45.80 ug/ml



#16 N-HEXATRIACONTANE

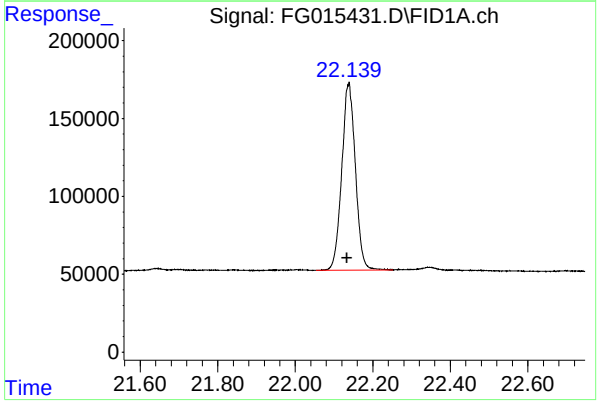
R.T.: 20.463 min
Delta R.T.: 0.004 min
Response: 4197870
Conc: 43.79 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.207 min
Delta R.T.: 0.002 min
Response: 3585023
Conc: 40.17 ug/ml

Instrument :
FID_G
ClientSampleId :
FG030325ICV



#18 N-TETRACONTANE

R.T.: 22.139 min
Delta R.T.: 0.005 min
Response: 2930060
Conc: 35.72 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030325\
Data File : FG015431.D
Signal(s) : FID1A.ch
Acq On : 03 Mar 2025 14:14
Sample : FG030325ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.994	1.960	2.128	BB	393787	5256960	88.55%	5.605%
2	4.533	4.490	4.629	BB	497238	5337269	89.90%	5.690%
3	6.716	6.678	6.785	BB	538643	5569532	93.81%	5.938%
4	8.552	8.507	8.643	BB	528326	5518504	92.95%	5.884%
5	10.166	10.116	10.241	BB	507834	5694355	95.91%	6.071%
6	11.615	11.569	11.682	BB	505253	5937044	100.00%	6.330%
7	12.930	12.890	13.003	BB	488202	5852161	98.57%	6.239%
8	14.133	14.096	14.196	BB	474618	5795980	97.62%	6.179%
9	15.034	14.975	15.142	BB	384520	5263594	88.66%	5.612%
10	15.240	15.157	15.298	BB	454904	5777408	97.31%	6.160%
11	16.263	16.200	16.330	BB	428199	5673674	95.56%	6.049%
12	17.215	17.170	17.285	BB	417958	5564382	93.72%	5.933%
13	18.104	18.037	18.168	BB	402928	5525262	93.06%	5.891%
14	18.939	18.881	19.005	BB	378532	5396274	90.89%	5.753%
15	19.723	19.660	19.791	BB	332312	4919040	82.85%	5.244%
16	20.463	20.420	20.535	BB	286989	4197870	70.71%	4.476%
17	21.207	21.133	21.293	BB	197532	3585023	60.38%	3.822%
18	22.139	22.054	22.252	BV	120391	2930060	49.35%	3.124%
			Sum of corrected areas:			93794391		

FG030325.M Tue Mar 04 04:37:35 2025

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: JACO05

ProjectID: Former Schlumberger STC PTC Site # D3868221

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG No.: Q1478

DataFile: FF015617.D Analyst Name: YP\AJ Analyst Date: 03-06-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65173715	130347	124681	4.544

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015617.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 09:45
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 00:34:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.026	6124943	51.368 ug/ml
	Target Compounds			
2)	N-DECANE	4.562	6066386	52.912 ug/ml
3)	N-DODECANE	6.732	6287955	52.735 ug/ml
4)	N-TETRADECANE	8.559	6326634	53.687 ug/ml
5)	N-HEXADECANE	10.168	6480681	53.662 ug/ml
6)	N-OCTADECANE	11.612	6743167	52.787 ug/ml
7)	N-EICOSANE	12.925	6773657	52.624 ug/ml
8)	N-DOCOSANE	14.124	6697052	51.724 ug/ml
10)	N-TETRACOSANE	15.230	6707949	51.087 ug/ml
11)	N-HEXACOSANE	16.253	6607911	51.212 ug/ml
12)	N-OCTACOSANE	17.205	6482323	50.630 ug/ml

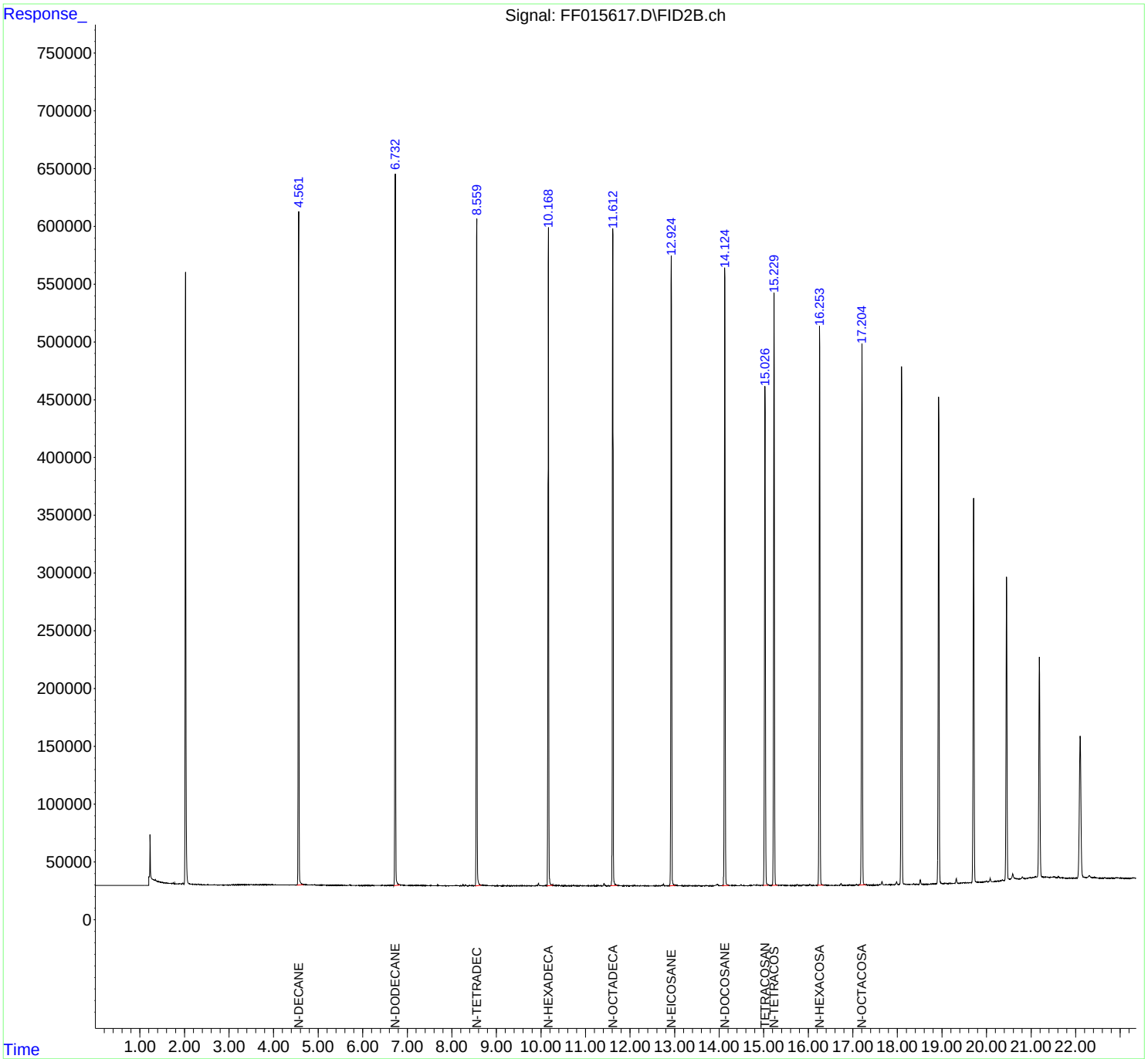
(f)=RT Delta > 1/2 Window (m)=manual int.

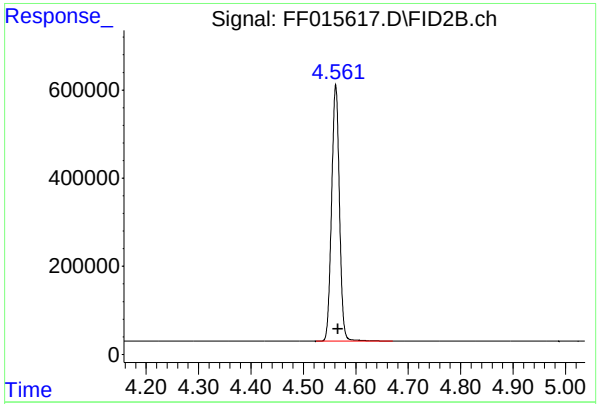
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015617.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 09:45
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 00:34:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

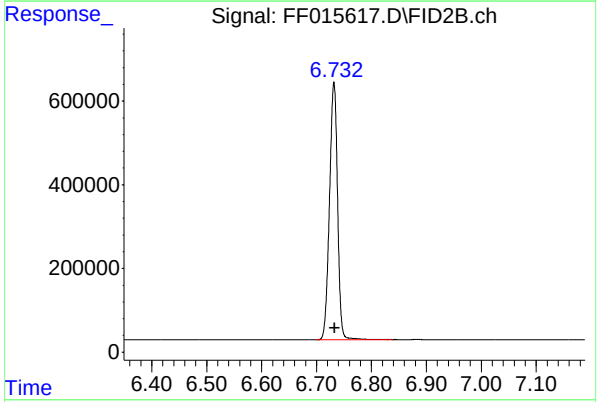




#2 N-DECANE

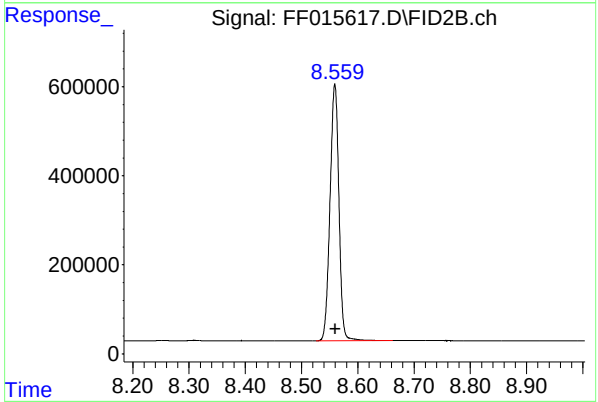
R.T.: 4.562 min
Delta R.T.: -0.004 min
Response: 6066386
Conc: 52.91 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



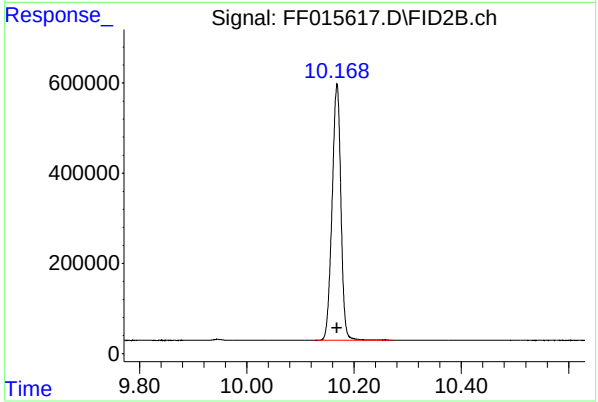
#3 N-DODECANE

R.T.: 6.732 min
Delta R.T.: 0.000 min
Response: 6287955
Conc: 52.73 ug/ml



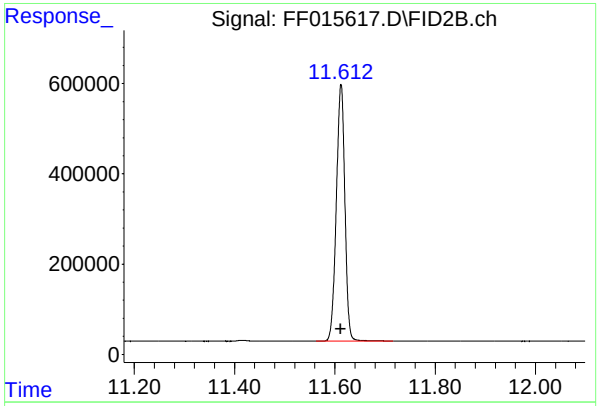
#4 N-TETRADECANE

R.T.: 8.559 min
Delta R.T.: 0.000 min
Response: 6326634
Conc: 53.69 ug/ml



#5 N-HEXADECANE

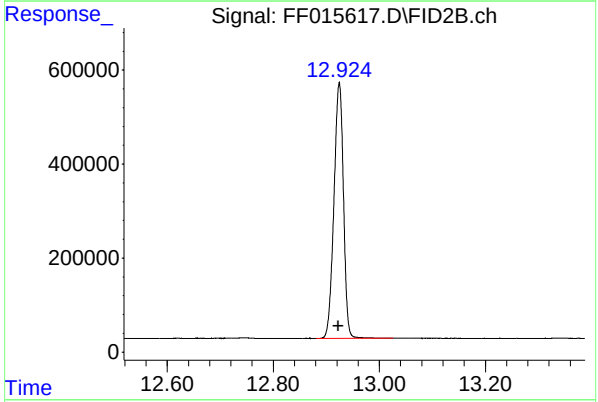
R.T.: 10.168 min
Delta R.T.: 0.000 min
Response: 6480681
Conc: 53.66 ug/ml



#6 N-OCTADECANE

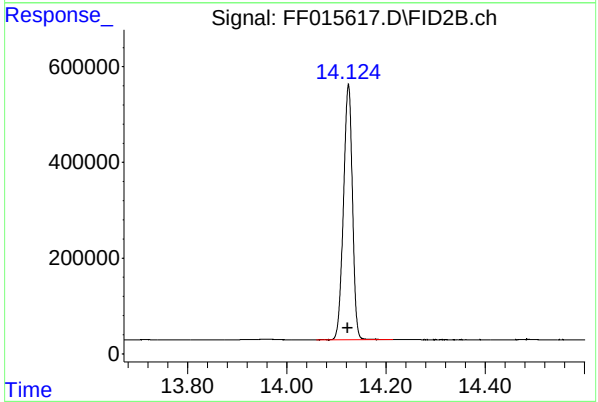
R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 6743167
Conc: 52.79 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



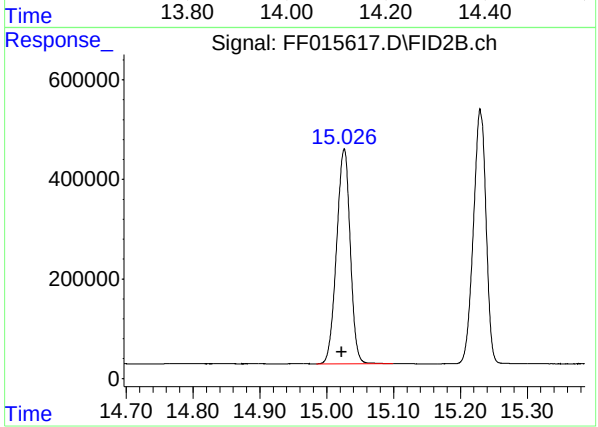
#7 N-EICOSANE

R.T.: 12.925 min
Delta R.T.: 0.002 min
Response: 6773657
Conc: 52.62 ug/ml



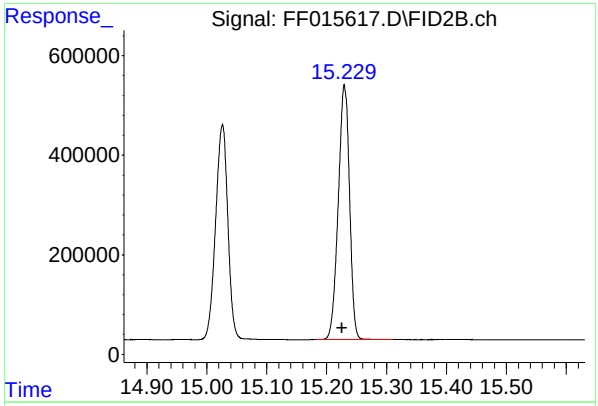
#8 N-DOCOSANE

R.T.: 14.124 min
Delta R.T.: 0.002 min
Response: 6697052
Conc: 51.72 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

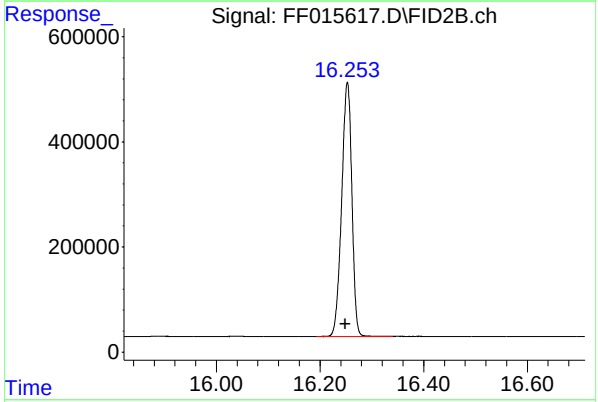
R.T.: 15.026 min
Delta R.T.: 0.004 min
Response: 6124943
Conc: 51.37 ug/ml



#10 N-TETRACOSANE

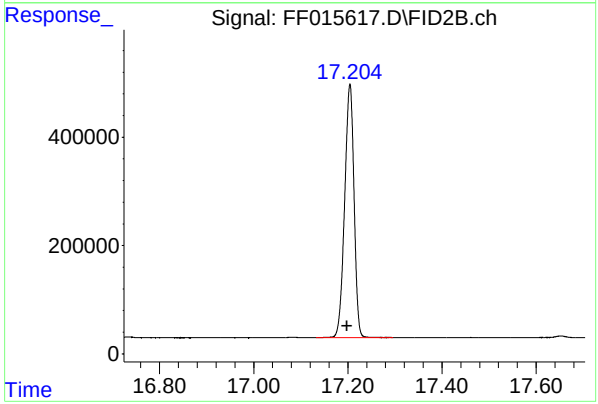
R.T.: 15.230 min
Delta R.T.: 0.004 min
Response: 6707949
Conc: 51.09 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.253 min
Delta R.T.: 0.004 min
Response: 6607911
Conc: 51.21 ug/ml



#12 N-OCTACOSANE

R.T.: 17.205 min
Delta R.T.: 0.006 min
Response: 6482323
Conc: 50.63 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015617.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 09:45
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.562	4.524	4.671	BB	580779	6066386	89.56%	8.508%
2	6.732	6.699	6.839	BB	614905	6287955	92.83%	8.819%
3	8.559	8.526	8.662	BB	576724	6326634	93.40%	8.873%
4	10.168	10.129	10.272	BB	570375	6480681	95.67%	9.089%
5	11.612	11.562	11.716	BB	569042	6743167	99.55%	9.458%
6	12.925	12.881	13.026	BB	543483	6773657	100.00%	9.500%
7	14.124	14.059	14.214	BB	533412	6697052	98.87%	9.393%
8	15.026	14.984	15.099	BV	430887	6124943	90.42%	8.591%
9	15.230	15.182	15.311	BB	511192	6707949	99.03%	9.408%
10	16.253	16.192	16.341	BB	483730	6607911	97.55%	9.268%
11	17.205	17.132	17.296	BB	468278	6482323	95.70%	9.092%
			Sum of corrected areas:			71298658		

FF030325.M Fri Mar 07 00:54:04 2025

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Fax : 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: JACO05

ProjectID: Former Schlumberger STC PTC Site # D3868221

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG No.: Q1478

DataFile: FF015625.D Analyst Name: YP\AJ Analyst Date: 03-06-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	61342555	122685	124681	1.601

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015625.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 14:24
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 00:37:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.025	5788914	48.550 ug/ml
	Target Compounds			
2)	N-DECANE	4.565	5636845	49.165 ug/ml
3)	N-DODECANE	6.734	5911569	49.578 ug/ml
4)	N-TETRADECANE	8.562	5864625	49.766 ug/ml
5)	N-HEXADECANE	10.169	6059468	50.175 ug/ml
6)	N-OCTADECANE	11.614	6373156	49.891 ug/ml
7)	N-EICOSANE	12.925	6327841	49.161 ug/ml
8)	N-DOCOSANE	14.125	6332188	48.906 ug/ml
10)	N-TETRACOSANE	15.230	6369941	48.512 ug/ml
11)	N-HEXACOSANE	16.252	6278234	48.657 ug/ml
12)	N-OCTACOSANE	17.203	6188688	48.336 ug/ml

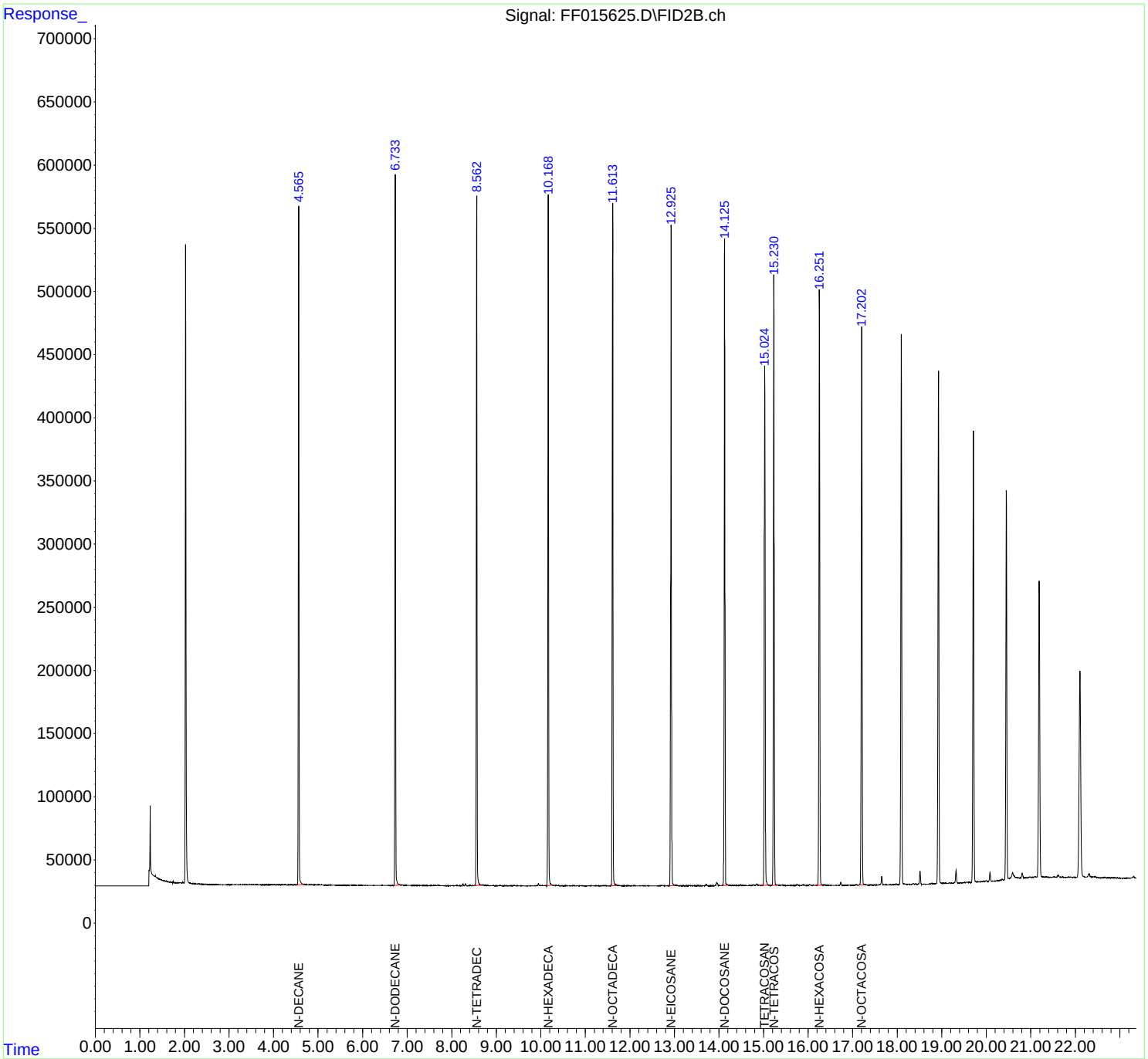
(f)=RT Delta > 1/2 Window (m)=manual int.

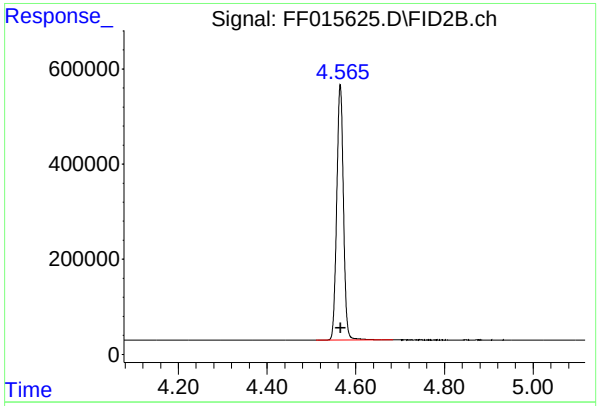
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015625.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 14:24
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 00:37:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

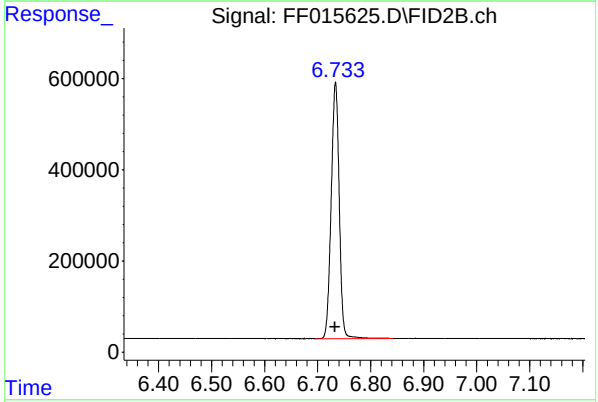




#2 N-DECANE

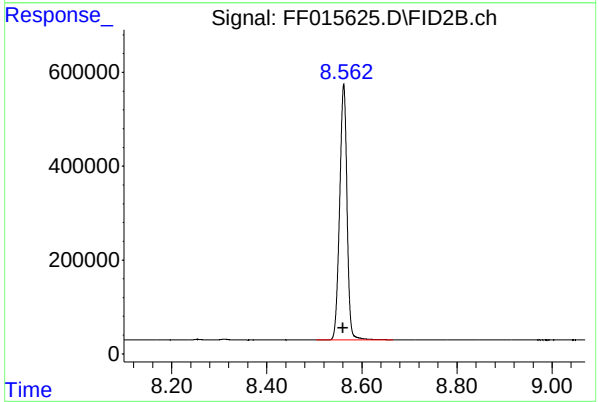
R.T.: 4.565 min
Delta R.T.: 0.000 min
Response: 5636845
Conc: 49.17 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



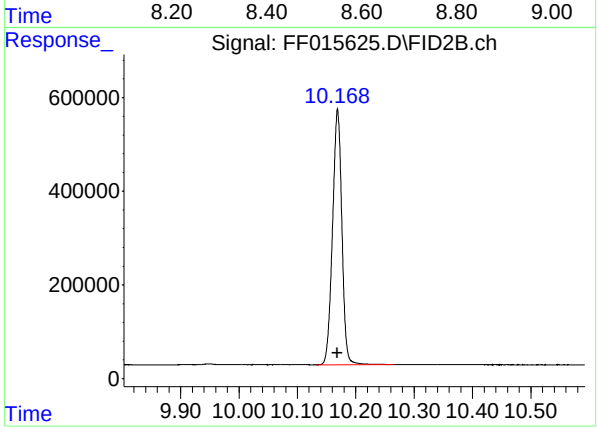
#3 N-DODECANE

R.T.: 6.734 min
Delta R.T.: 0.000 min
Response: 5911569
Conc: 49.58 ug/ml



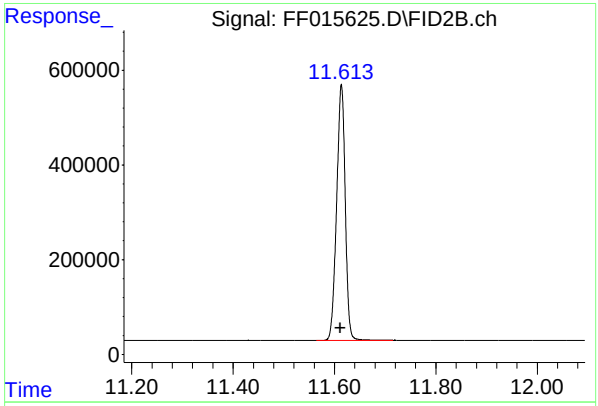
#4 N-TETRADECANE

R.T.: 8.562 min
Delta R.T.: 0.002 min
Response: 5864625
Conc: 49.77 ug/ml



#5 N-HEXADECANE

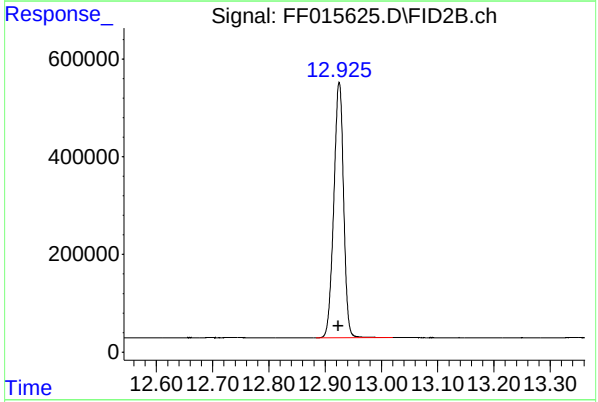
R.T.: 10.169 min
Delta R.T.: 0.000 min
Response: 6059468
Conc: 50.17 ug/ml



#6 N-OCTADECANE

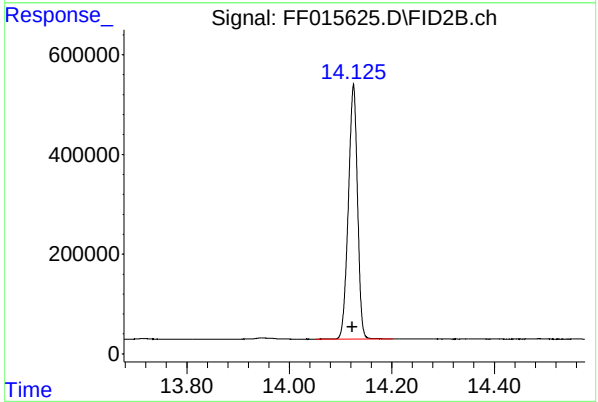
R.T.: 11.614 min
Delta R.T.: 0.002 min
Response: 6373156
Conc: 49.89 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



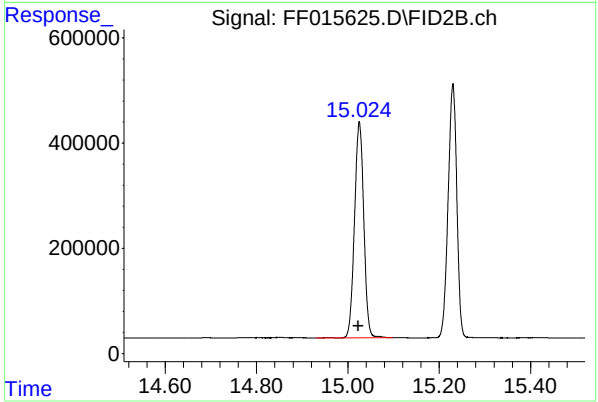
#7 N-EICOSANE

R.T.: 12.925 min
Delta R.T.: 0.002 min
Response: 6327841
Conc: 49.16 ug/ml



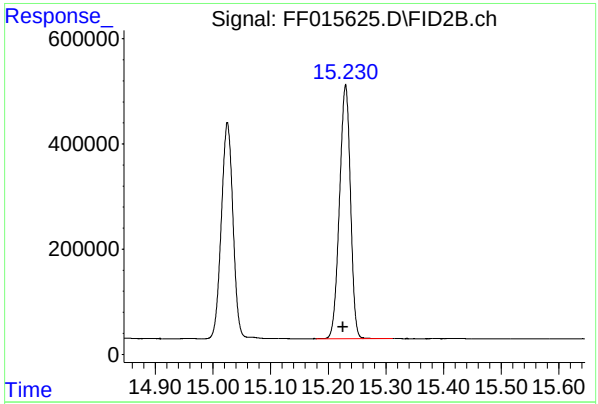
#8 N-DOCOSANE

R.T.: 14.125 min
Delta R.T.: 0.003 min
Response: 6332188
Conc: 48.91 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

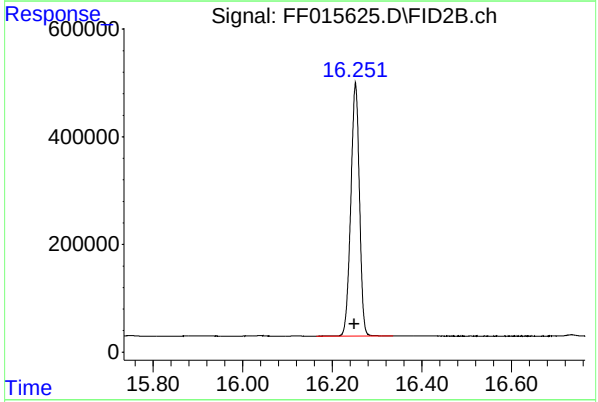
R.T.: 15.025 min
Delta R.T.: 0.003 min
Response: 5788914
Conc: 48.55 ug/ml



#10 N-TETRACOSANE

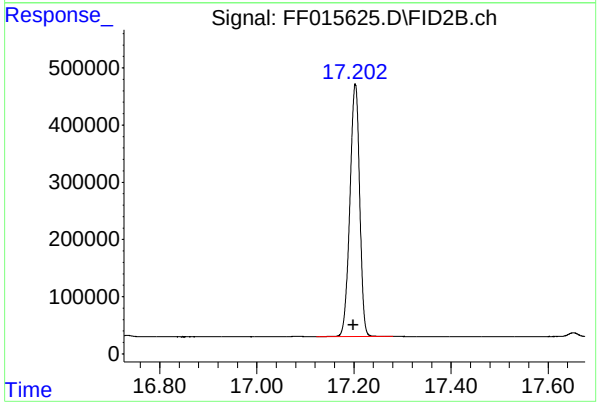
R.T.: 15.230 min
Delta R.T.: 0.005 min
Response: 6369941
Conc: 48.51 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.252 min
Delta R.T.: 0.003 min
Response: 6278234
Conc: 48.66 ug/ml



#12 N-OCTACOSANE

R.T.: 17.203 min
Delta R.T.: 0.004 min
Response: 6188688
Conc: 48.34 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015625.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 14:24
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.565	4.510	4.684	BB	536716	5636845	88.45%	8.397%
2	6.734	6.697	6.842	BB	562733	5911569	92.76%	8.806%
3	8.562	8.504	8.665	BB	546050	5864625	92.02%	8.736%
4	10.169	10.132	10.264	BB	545771	6059468	95.08%	9.026%
5	11.614	11.564	11.715	BB	539702	6373156	100.00%	9.494%
6	12.925	12.884	13.020	BB	522354	6327841	99.29%	9.426%
7	14.125	14.052	14.202	BB	510414	6332188	99.36%	9.433%
8	15.025	14.930	15.099	BB	411109	5788914	90.83%	8.623%
9	15.230	15.179	15.312	BB	483343	6369941	99.95%	9.489%
10	16.252	16.164	16.335	BB	469922	6278234	98.51%	9.352%
11	17.203	17.122	17.280	BB	440449	6188688	97.11%	9.219%

Sum of corrected areas: 67131470

FF030325.M Fri Mar 07 00:56:28 2025

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: JACO05

ProjectID: Former Schlumberger STC PTC Site # D3868221

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG No.: Q1478

DataFile: FG015447.D Analyst Name: YP\AJ Analyst Date: 03-06-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56014782	112030	117897	4.976

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015447.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 09:45
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 01:15:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.037	5086771	46.720 ug/ml
	Target Compounds			
2)	N-DECANE	4.531	5115918	45.976 ug/ml
3)	N-DODECANE	6.715	5547769	47.736 ug/ml
4)	N-TETRADECANE	8.552	5627155	48.835 ug/ml
5)	N-HEXADECANE	10.167	5879457	49.536 ug/ml
6)	N-OCTADECANE	11.617	6097235	49.232 ug/ml
7)	N-EICOSANE	12.931	5890045	48.490 ug/ml
8)	N-DOCOSANE	14.135	5691087	47.533 ug/ml
10)	N-TETRACOSANE	15.242	5547948	46.460 ug/ml
11)	N-HEXACOSANE	16.266	5369254	45.754 ug/ml
12)	N-OCTACOSANE	17.219	5248914	45.346 ug/ml

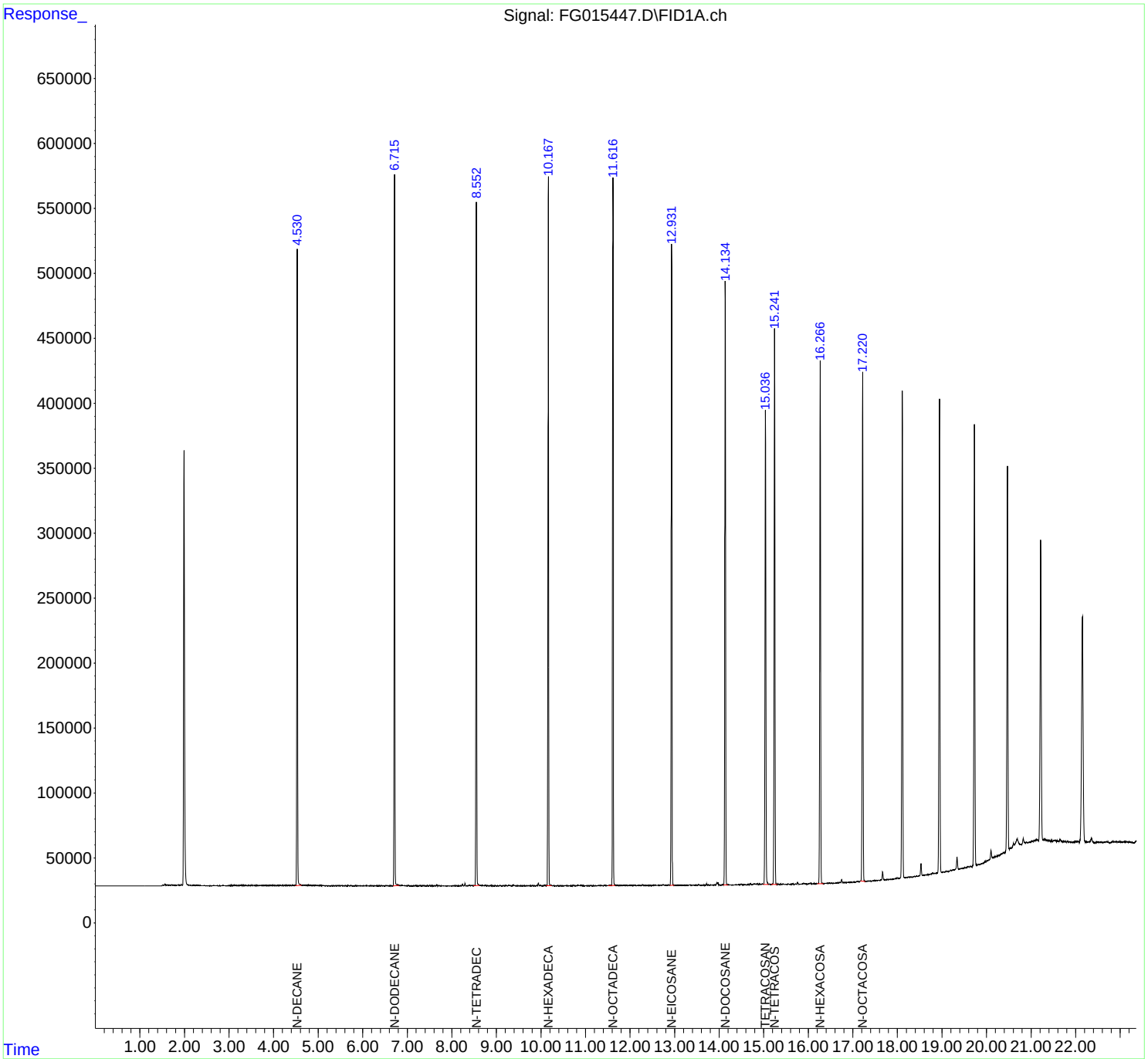
(f)=RT Delta > 1/2 Window (m)=manual int.

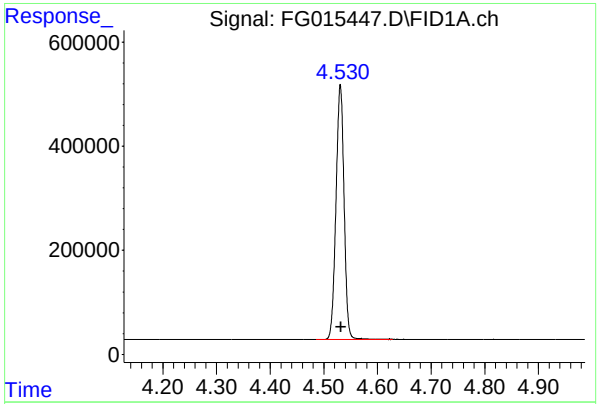
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015447.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 09:45
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 01:15:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

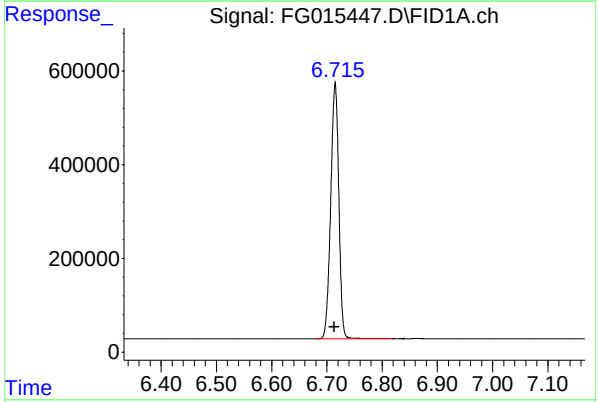




#2 N-DECANE

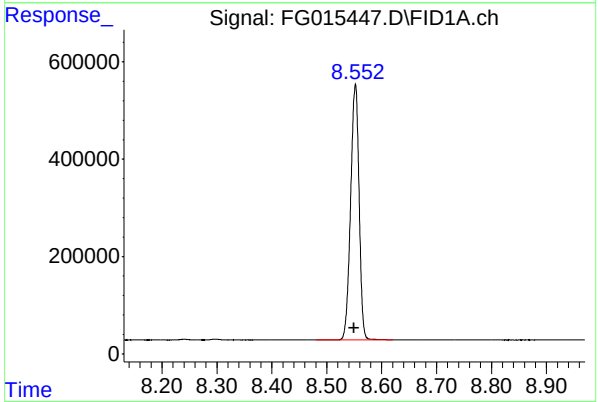
R.T.: 4.531 min
Delta R.T.: -0.001 min
Response: 5115918
Conc: 45.98 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



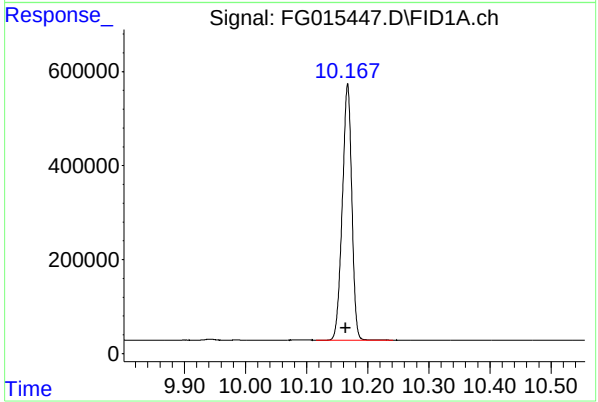
#3 N-DODECANE

R.T.: 6.715 min
Delta R.T.: 0.001 min
Response: 5547769
Conc: 47.74 ug/ml



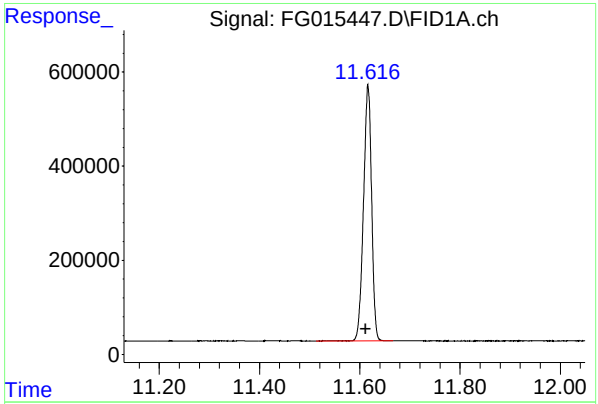
#4 N-TETRADECANE

R.T.: 8.552 min
Delta R.T.: 0.003 min
Response: 5627155
Conc: 48.83 ug/ml



#5 N-HEXADECANE

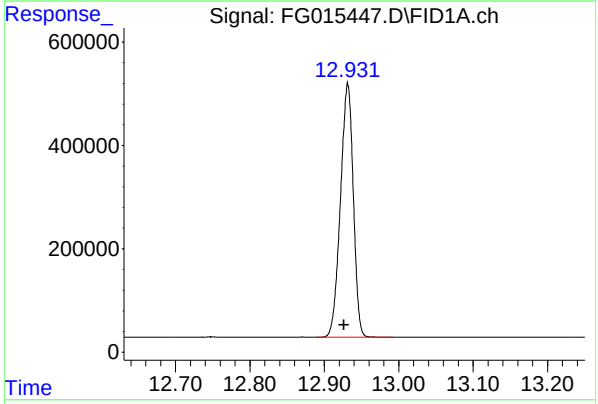
R.T.: 10.167 min
Delta R.T.: 0.004 min
Response: 5879457
Conc: 49.54 ug/ml



#6 N-OCTADECANE

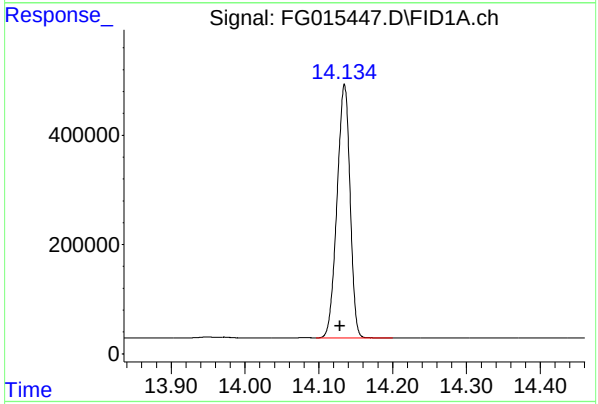
R.T.: 11.617 min
Delta R.T.: 0.005 min
Response: 6097235
Conc: 49.23 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



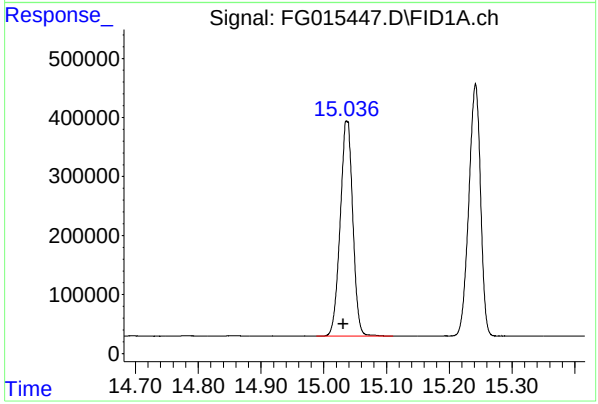
#7 N-EICOSANE

R.T.: 12.931 min
Delta R.T.: 0.005 min
Response: 5890045
Conc: 48.49 ug/ml



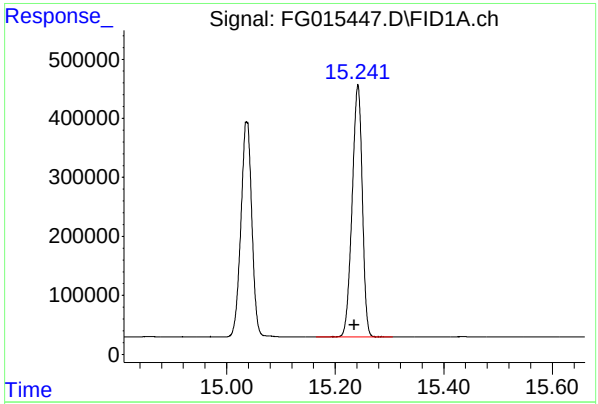
#8 N-DOCOSANE

R.T.: 14.135 min
Delta R.T.: 0.006 min
Response: 5691087
Conc: 47.53 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

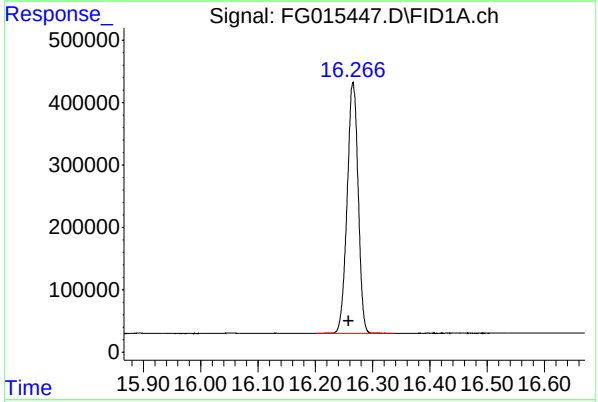
R.T.: 15.037 min
Delta R.T.: 0.006 min
Response: 5086771
Conc: 46.72 ug/ml



#10 N-TETRACOSANE

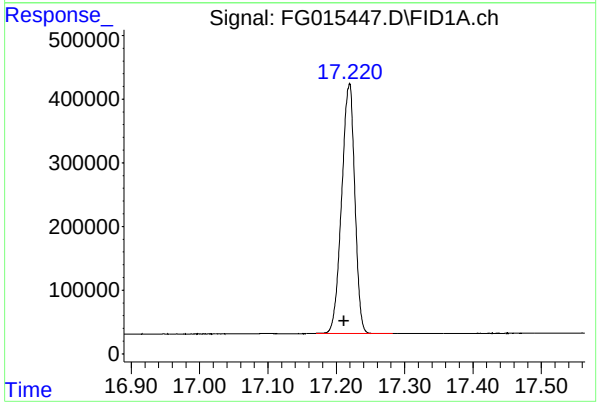
R.T.: 15.242 min
Delta R.T.: 0.007 min
Response: 5547948
Conc: 46.46 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.266 min
Delta R.T.: 0.007 min
Response: 5369254
Conc: 45.75 ug/ml



#12 N-OCTACOSANE

R.T.: 17.219 min
Delta R.T.: 0.008 min
Response: 5248914
Conc: 45.35 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015447.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 09:45
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.531	4.485	4.629	BB	488019	5115918	83.91%	8.373%
2	6.715	6.680	6.820	BB	547983	5547769	90.99%	9.080%
3	8.552	8.480	8.620	BB	525969	5627155	92.29%	9.210%
4	10.167	10.115	10.241	BB	545713	5879457	96.43%	9.622%
5	11.617	11.513	11.666	BB	538694	6097235	100.00%	9.979%
6	12.931	12.889	12.992	BB	492351	5890045	96.60%	9.640%
7	14.135	14.096	14.200	PB	464408	5691087	93.34%	9.314%
8	15.037	14.988	15.110	BV	364665	5086771	83.43%	8.325%
9	15.242	15.165	15.306	BB	427834	5547948	90.99%	9.080%
10	16.266	16.201	16.335	BB	401876	5369254	88.06%	8.787%
11	17.219	17.170	17.283	BB	391983	5248914	86.09%	8.590%
			Sum of corrected areas:			61101552		

FG030325.M Fri Mar 07 01:37:38 2025

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Fax : 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: JACO05

ProjectID: Former Schlumberger STC PTC Site # D3868221

Lab Code: CHEM Case No.: Q1478 SAS No.: Q1478 SDG No.: Q1478

DataFile: FG015457.D Analyst Name: YP\AJ Analyst Date: 03-06-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56836785	113674	117897	3.582

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015457.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 17:50
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 01:18:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.034	5071746	46.582 ug/ml
	Target Compounds			
2)	N-DECANE	4.530	5471566	49.172 ug/ml
3)	N-DODECANE	6.714	5777683	49.714 ug/ml
4)	N-TETRADECANE	8.550	5760790	49.994 ug/ml
5)	N-HEXADECANE	10.165	5912028	49.810 ug/ml
6)	N-OCTADECANE	11.614	6075396	49.056 ug/ml
7)	N-EICOSANE	12.928	5860583	48.247 ug/ml
8)	N-DOCOSANE	14.131	5675088	47.399 ug/ml
10)	N-TETRACOSANE	15.238	5567818	46.626 ug/ml
11)	N-HEXACOSANE	16.262	5418602	46.175 ug/ml
12)	N-OCTACOSANE	17.215	5317231	45.936 ug/ml

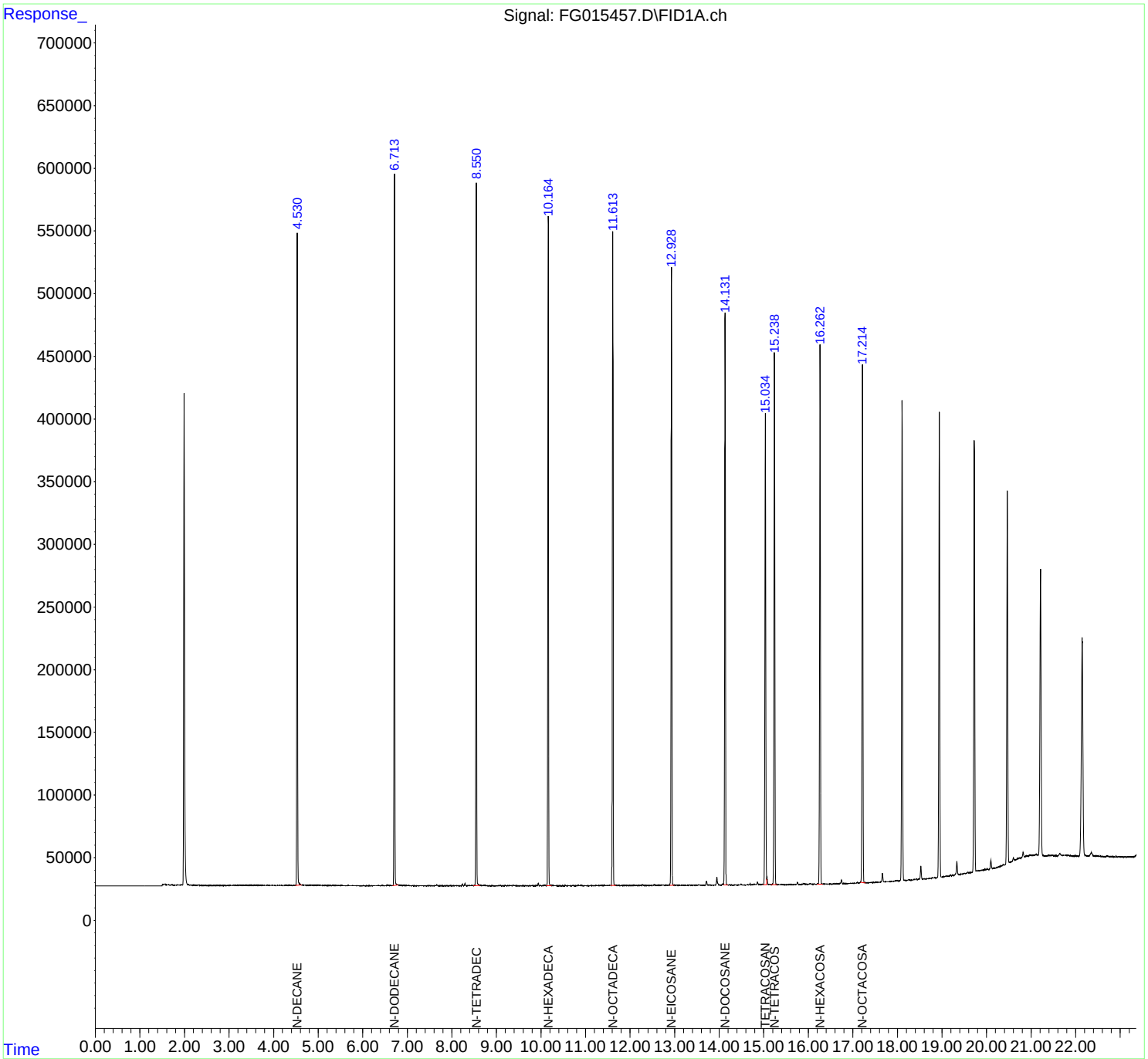
(f)=RT Delta > 1/2 Window (m)=manual int.

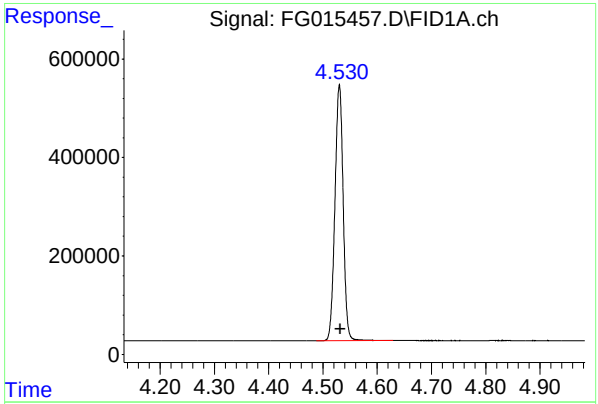
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015457.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 17:50
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 07 01:18:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

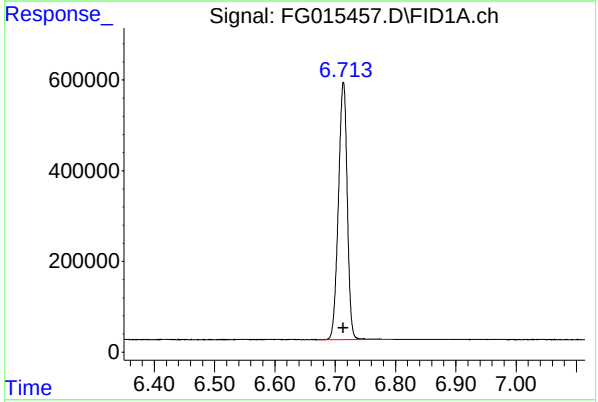




#2 N-DECANE

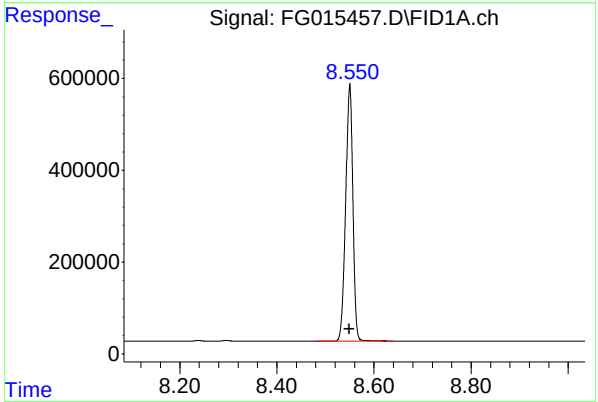
R.T.: 4.530 min
Delta R.T.: -0.002 min
Response: 5471566
Conc: 49.17 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



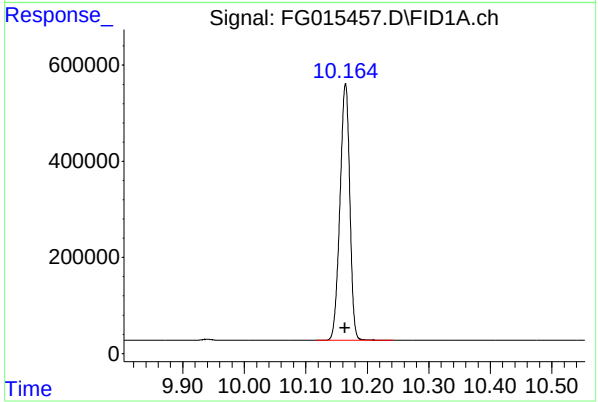
#3 N-DODECANE

R.T.: 6.714 min
Delta R.T.: 0.000 min
Response: 5777683
Conc: 49.71 ug/ml



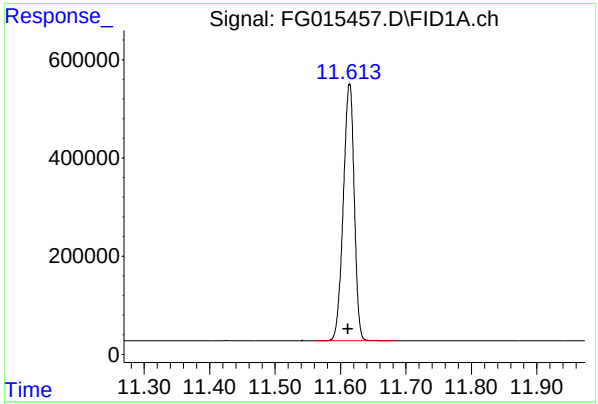
#4 N-TETRADECANE

R.T.: 8.550 min
Delta R.T.: 0.000 min
Response: 5760790
Conc: 49.99 ug/ml



#5 N-HEXADECANE

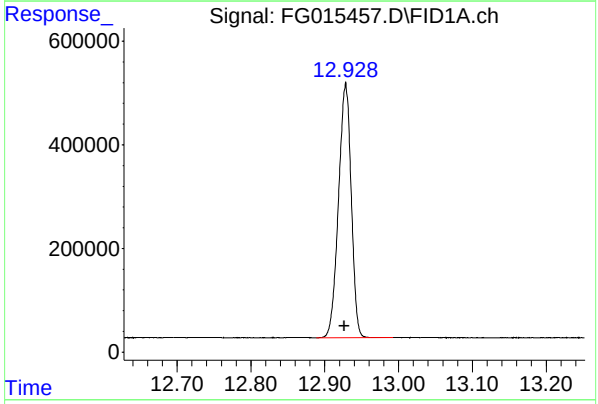
R.T.: 10.165 min
Delta R.T.: 0.001 min
Response: 5912028
Conc: 49.81 ug/ml



#6 N-OCTADECANE

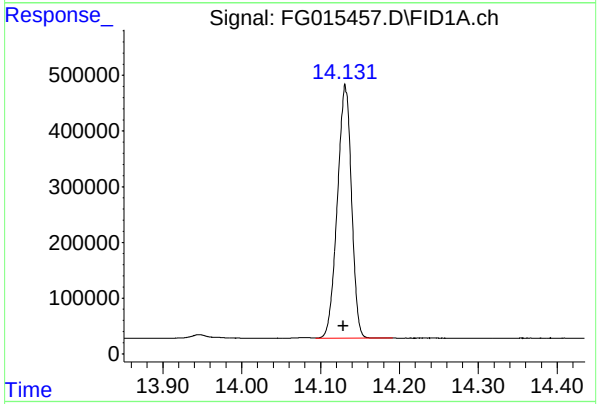
R.T.: 11.614 min
Delta R.T.: 0.002 min
Response: 6075396
Conc: 49.06 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



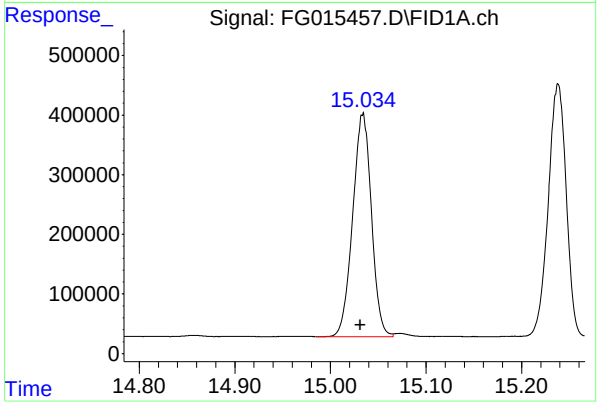
#7 N-EICOSANE

R.T.: 12.928 min
Delta R.T.: 0.002 min
Response: 5860583
Conc: 48.25 ug/ml



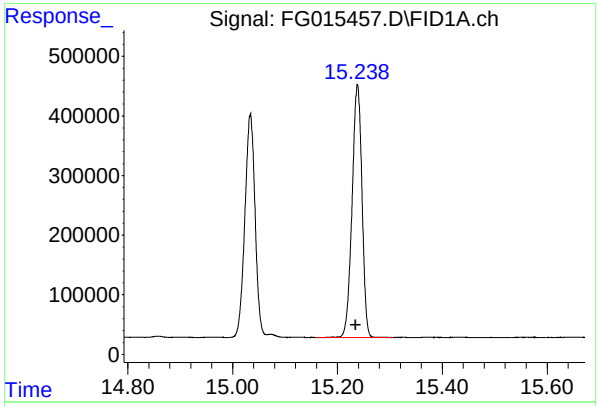
#8 N-DOCOSANE

R.T.: 14.131 min
Delta R.T.: 0.003 min
Response: 5675088
Conc: 47.40 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

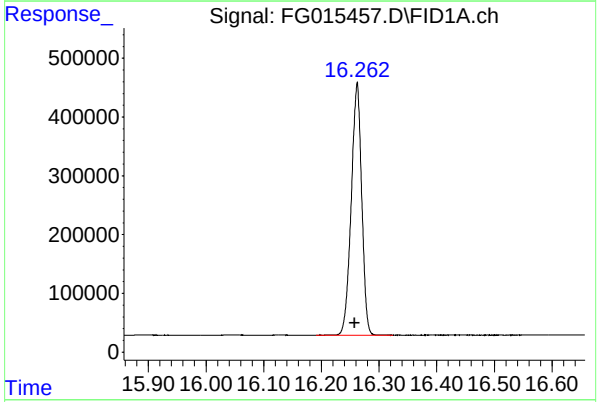
R.T.: 15.034 min
Delta R.T.: 0.003 min
Response: 5071746
Conc: 46.58 ug/ml



#10 N-TETRACOSANE

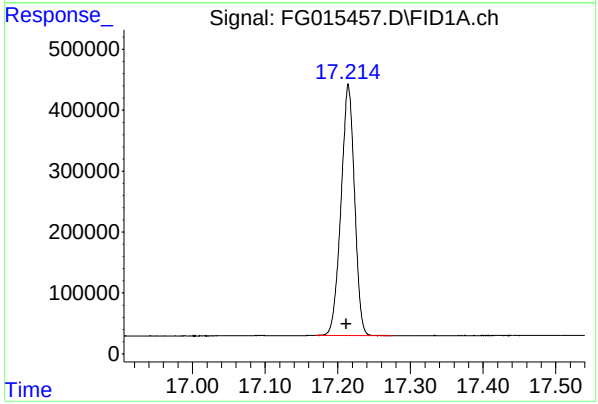
R.T.: 15.238 min
Delta R.T.: 0.004 min
Response: 5567818
Conc: 46.63 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.262 min
Delta R.T.: 0.004 min
Response: 5418602
Conc: 46.17 ug/ml



#12 N-OCTACOSANE

R.T.: 17.215 min
Delta R.T.: 0.003 min
Response: 5317231
Conc: 45.94 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015457.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 17:50
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.530	4.487	4.629	BB	519540	5471566	90.06%	8.838%
2	6.714	6.668	6.796	BB	567931	5777683	95.10%	9.333%
3	8.550	8.481	8.639	BB	558936	5760790	94.82%	9.305%
4	10.165	10.117	10.242	BB	534571	5912028	97.31%	9.550%
5	11.614	11.563	11.680	BB	520873	6075396	100.00%	9.814%
6	12.928	12.888	12.993	BB	491278	5860583	96.46%	9.467%
7	14.131	14.094	14.192	VB	450790	5675088	93.41%	9.167%
8	15.034	14.985	15.065	BV	373869	5071746	83.48%	8.192%
9	15.238	15.159	15.306	BB	423992	5567818	91.65%	8.994%
10	16.262	16.191	16.324	BB	430749	5418602	89.19%	8.753%
11	17.215	17.170	17.276	BB	412782	5317231	87.52%	8.589%

Sum of corrected areas: 61908531

FG030325.M Fri Mar 07 01:40:53 2025

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Fax : 908 789 8922

Analytical Sequence

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1478

Project: Former Schlumberger STC PTC Site # D3868221 **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 **15.0244**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	06 Mar 2025 08:44	FF015616.D	15.022	
50 PPM TRPH STD	50 PPM TRPH STD	06 Mar 2025 09:45	FF015617.D	15.026	
PB167017BL	PB167017BL	06 Mar 2025 10:58	FF015619.D	15.022	
PB167017BS	PB167017BS	06 Mar 2025 11:28	FF015620.D	15.022	
IDW-SO-COMP-022825	Q1478-14	06 Mar 2025 11:57	FF015621.D	15.023	
IDW-SO-COMP-022825MS	Q1478-14MS	06 Mar 2025 12:27	FF015622.D	15.023	
IDW-SO-COMP-022825MSD	Q1478-14MSD	06 Mar 2025 12:56	FF015623.D	15.022	
PIBLK02	I.BLK02	06 Mar 2025 13:25	FF015624.D	15.025	
50 PPM TRPH STD	50 PPM TRPH STD	06 Mar 2025 14:24	FF015625.D	15.025	
PIBLK03	I.BLK03	06 Mar 2025 08:44	FG015446.D	15.033	
50 PPM TRPH STD	50 PPM TRPH STD	06 Mar 2025 09:45	FG015447.D	15.037	
PB167008BL	PB167008BL	06 Mar 2025 13:25	FG015449.D	15.032	
PB167008BS	PB167008BS	06 Mar 2025 13:55	FG015450.D	15.033	
PB167008BSD	PB167008BSD	06 Mar 2025 14:24	FG015451.D	15.033	
IDW-AQ-DRUM-610-022825	Q1478-02	06 Mar 2025 14:54	FG015452.D	15.032	
IDW-AQ-DRUM-616-022825	Q1478-04	06 Mar 2025 15:23	FG015453.D	15.031	
IDW-AQ-DRUM-614-022825	Q1478-06	06 Mar 2025 15:52	FG015454.D	15.031	
IDW-AQ-DRUM-612-022825	Q1478-08	06 Mar 2025 16:22	FG015455.D	15.032	
PIBLK04	I.BLK04	06 Mar 2025 16:51	FG015456.D	15.031	
50 PPM TRPH STD	50 PPM TRPH STD	06 Mar 2025 17:50	FG015457.D	15.034	

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

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.9338	15.1338

QC SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167008BL	SDG No.:	Q1478
Lab Sample ID:	PB167008BL	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015449.D	1	03/06/25 08:29	03/06/25 13:25	PB167008

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.2		29 - 130	86%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015449.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 13:25
Operator : YP\AJ
Sample : PB167008BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167008BL

Integration File: autoint1.e
Quant Time: Mar 07 01:16:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.032	1873141	17.204 ug/ml
	Target Compounds			

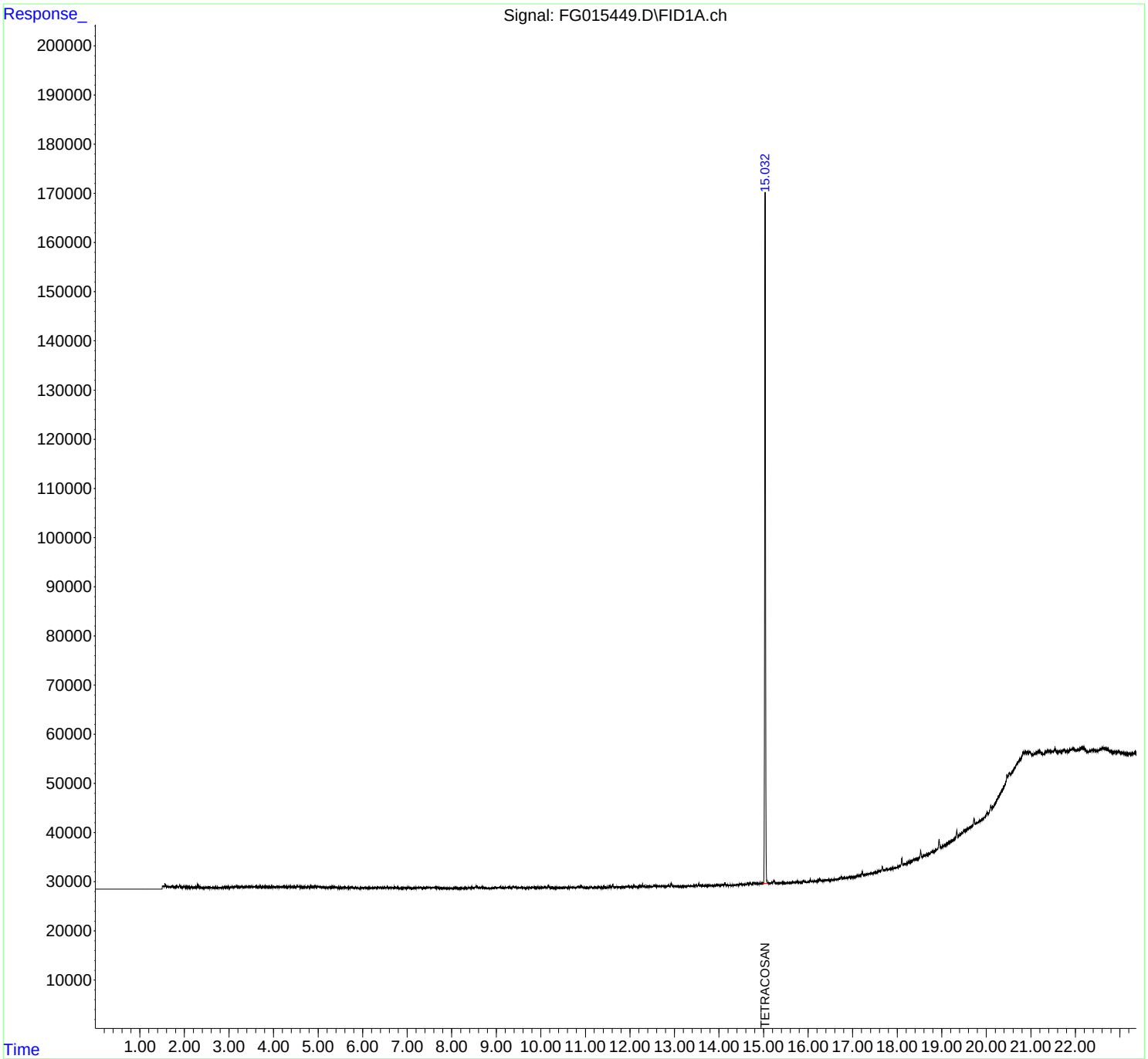
(f)=RT Delta > 1/2 Window (m)=manual int.

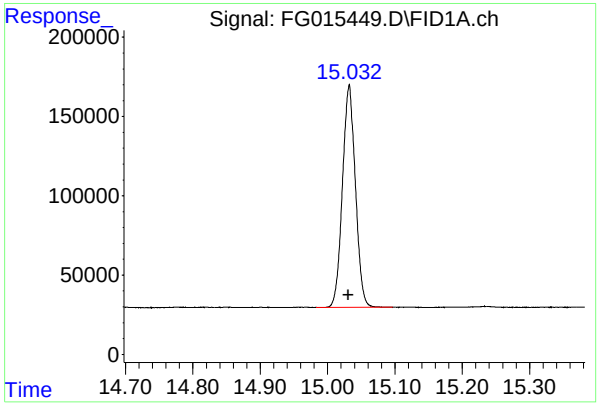
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015449.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 13:25
Operator : YP\AJ
Sample : PB167008BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167008BL

Integration File: autoint1.e
Quant Time: Mar 07 01:16:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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.: 15.032 min
Delta R.T.: 0.001 mi
Response: 1873141
Conc: 17.20 ug/m

Instrument :
FID_G
ClientSampleId :
PB167008BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015449.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 13:25
Sample : PB167008BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.032	14.983	15.097	BB	140256	1873141	100.00%	100.000%

Sum of corrected areas: 1873141

FG030325.M Fri Mar 07 01:38:27 2025

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Fax : 908 789 8922

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167017BL	SDG No.:	Q1478
Lab Sample ID:	PB167017BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 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
FF015619.D	1	03/05/25 13:12	03/06/25 10:58	PB167017

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	185	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.3		37 - 130	76%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015619.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 10:58
Operator : YP\AJ
Sample : PB167017BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167017BL

Integration File: autoint1.e
Quant Time: Mar 07 00:35:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.022	1821236	15.274 ug/ml
Target Compounds			

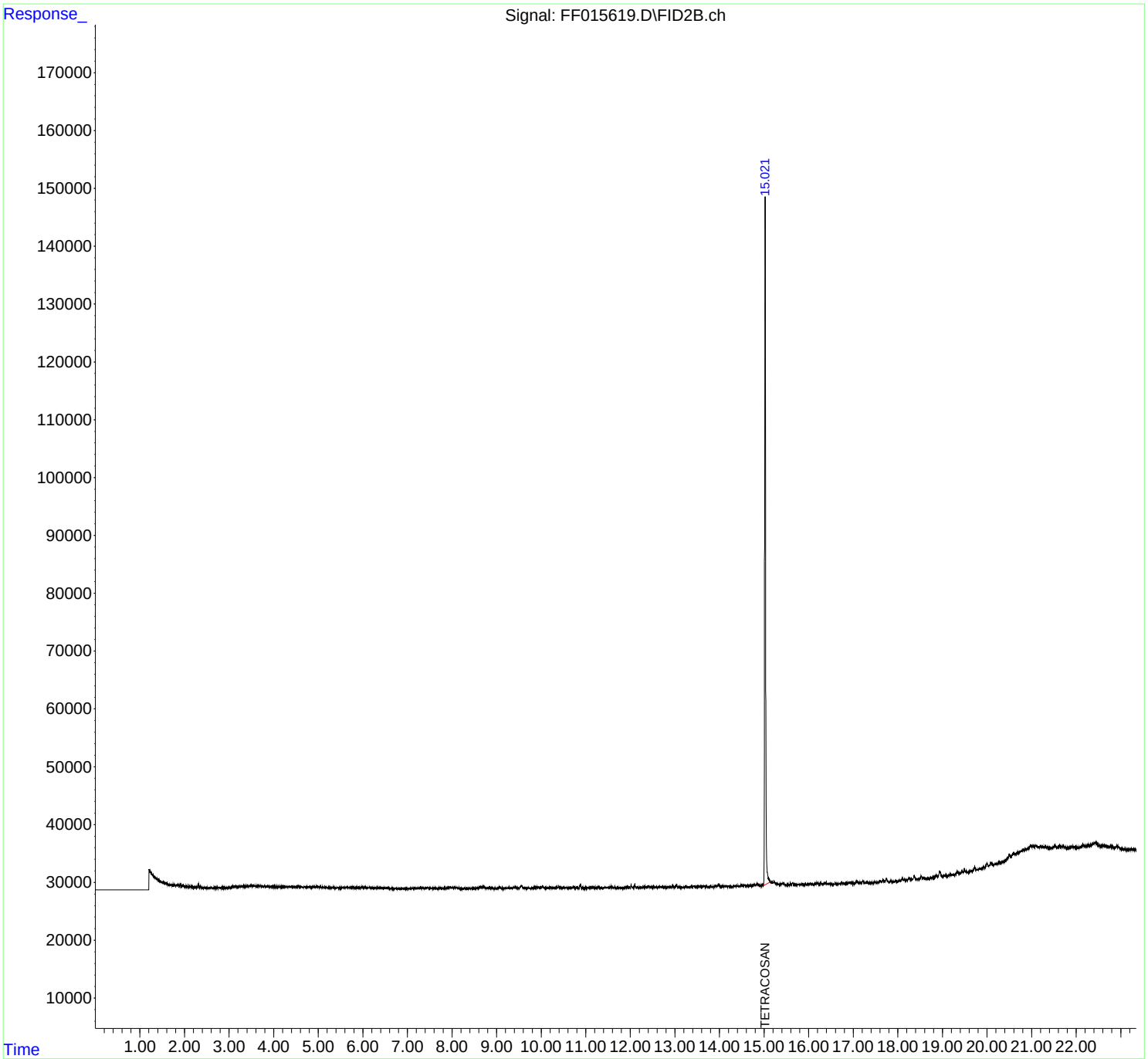
(f)=RT Delta > 1/2 Window (m)=manual int.

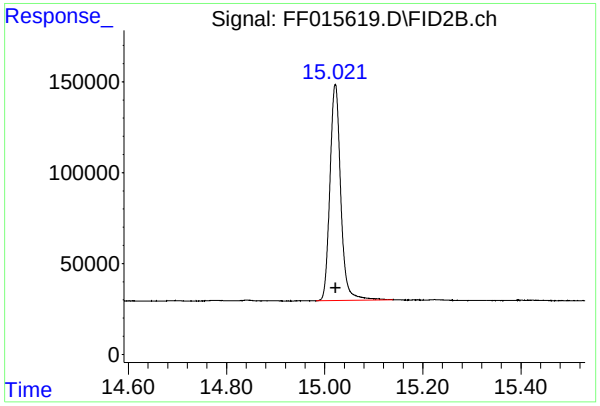
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015619.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 10:58
Operator : YP\AJ
Sample : PB167017BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167017BL

Integration File: autoint1.e
Quant Time: Mar 07 00:35:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.022 min
Delta R.T.: 0.000 mi
Response: 1821236
Conc: 15.27 ug/m

Instrument :
FID_F
ClientSampleId :
PB167017BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015619.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 10:58
Sample : PB167017BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.022	14.982	15.139	BB	119052	1821236	100.00%	100.000%
			Sum of corrected areas:			1821236		

FF030325.M Fri Mar 07 00:55:10 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/06/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/06/25
Client Sample ID:	PIBLK-FF015616.D	SDG No.:	Q1478
Lab Sample ID:	I.BLK-FF015616.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015616.D	1		03/06/25	FF030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	20.8		29 - 130	104%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015616.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 08:44
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 07 00:34:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.022	2483063	20.825 ug/ml
Target Compounds			

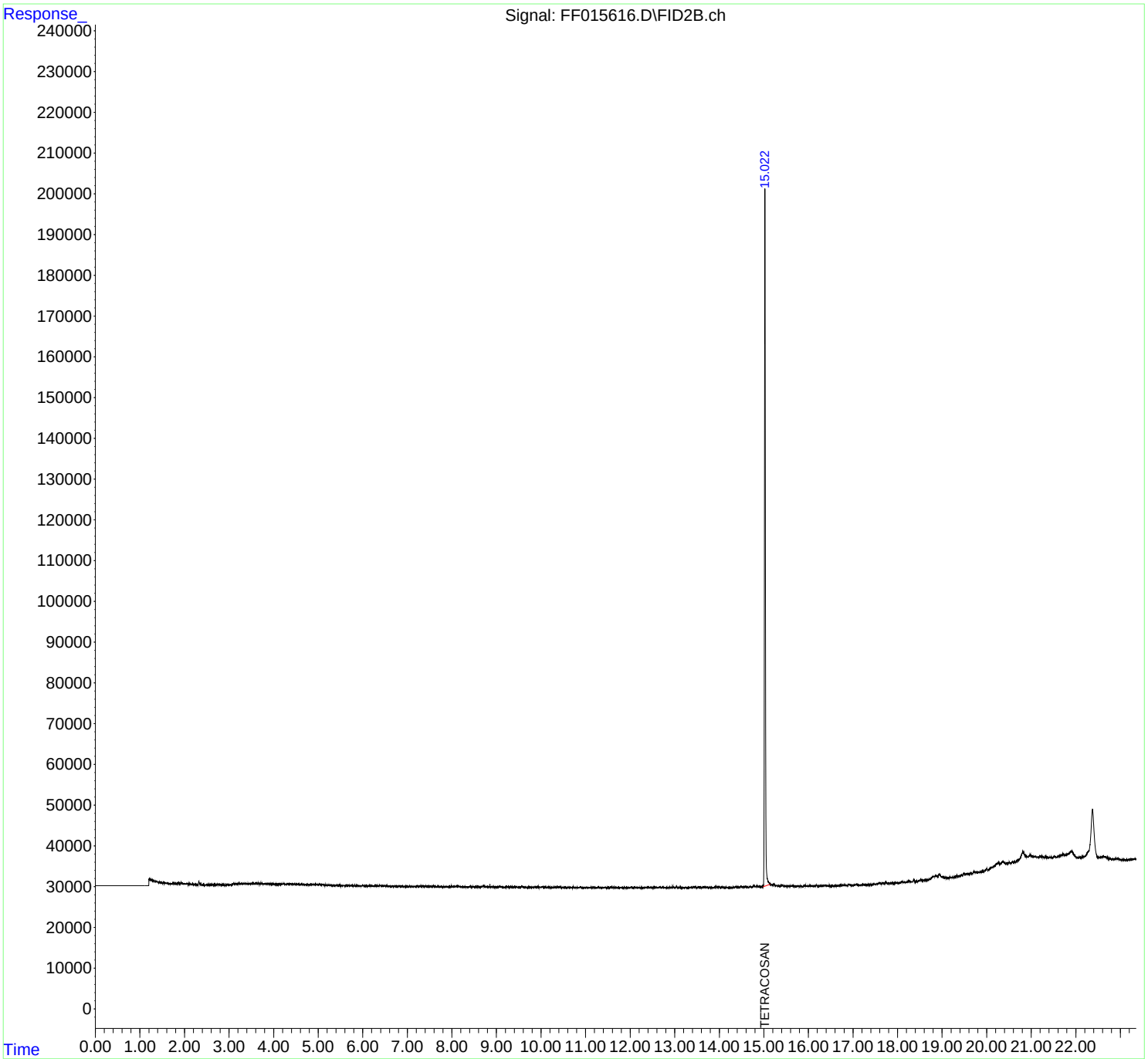
(f)=RT Delta > 1/2 Window (m)=manual int.

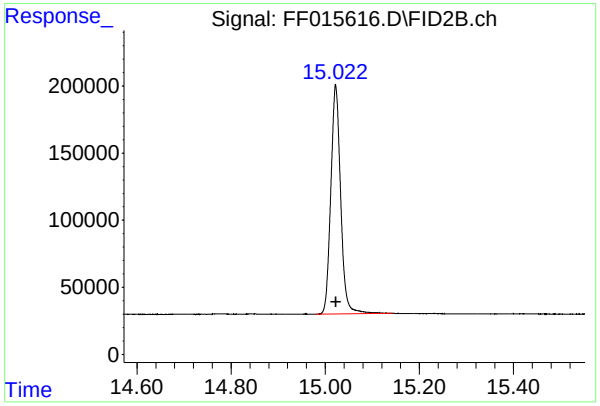
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015616.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 08:44
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 07 00:34:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.022 min
Delta R.T.: 0.000 mi
Response: 2483063
Conc: 20.82 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015616.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 08:44
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.022	14.980	15.144	BB	170841	2483063	100.00%	100.000%

Sum of corrected areas: 2483063

FF030325.M Fri Mar 07 00:54:32 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/06/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/06/25
Client Sample ID:	PIBLK-FF015624.D	SDG No.:	Q1478
Lab Sample ID:	I.BLK-FF015624.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015624.D	1		03/06/25	FF030625

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

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015624.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 13:25
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 07 00:37:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.025	2102362	17.632 ug/ml
Target Compounds			

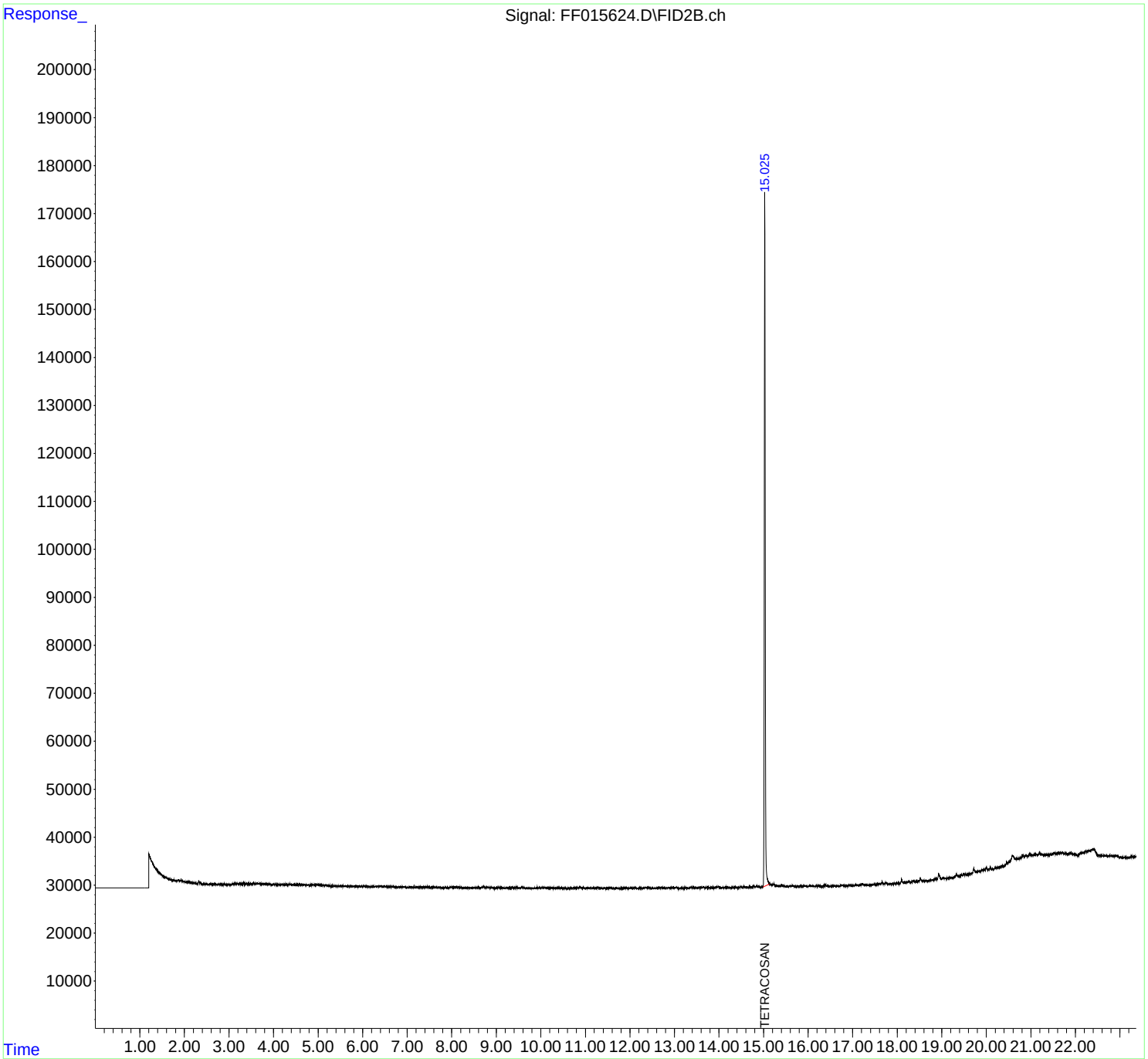
(f)=RT Delta > 1/2 Window (m)=manual int.

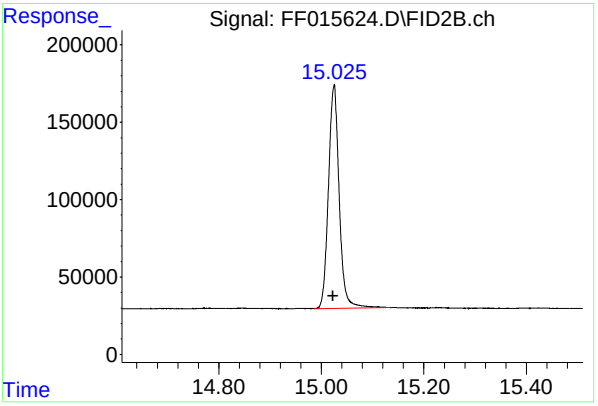
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015624.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 13:25
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 07 00:37:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.025 min
Delta R.T.: 0.002 mi
Response: 2102362
Conc: 17.63 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015624.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 13:25
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.025	14.986	15.136	BB	145432	2102362	100.00%	100.000%
			Sum of corrected areas:			2102362		

FF030325.M Fri Mar 07 00:55:57 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/06/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/06/25
Client Sample ID:	PIBLK-FG015446.D	SDG No.:	Q1478
Lab Sample ID:	I.BLK-FG015446.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015446.D	1		03/06/25	FG030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	22.9		29 - 130	115%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015446.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 08:44
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: Mar 07 01:15:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.033	2499172	22.954 ug/ml
Target Compounds			

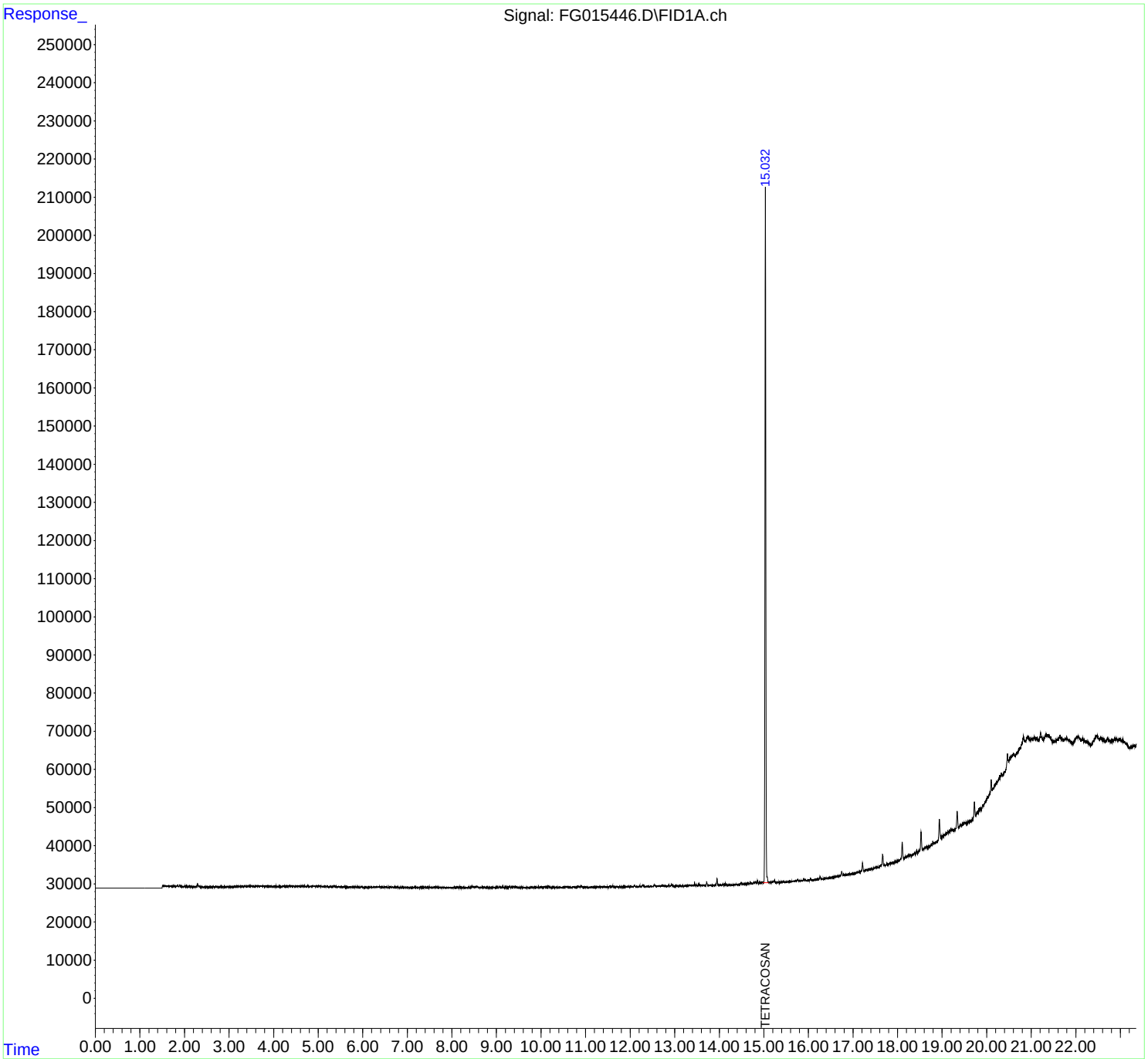
(f)=RT Delta > 1/2 Window (m)=manual int.

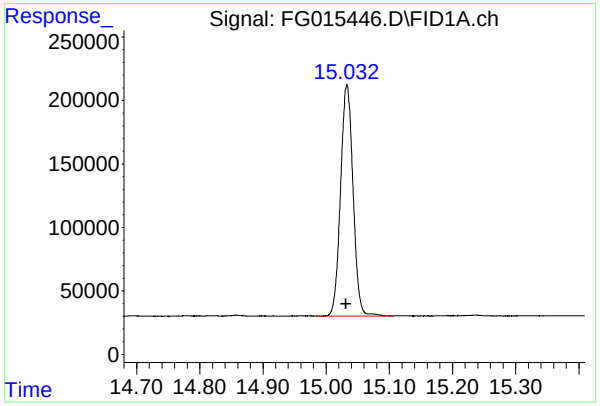
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015446.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 08:44
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 07 01:15:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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.: 15.033 min
Delta R.T.: 0.002 mi
Response: 2499172
Conc: 22.95 ug/m

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015446.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 08:44
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.033	14.984	15.106	BB	182118	2499172	100.00%	100.000%

Sum of corrected areas: 2499172

FG030325.M Fri Mar 07 01:35:59 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/06/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/06/25
Client Sample ID:	PIBLK-FG015456.D	SDG No.:	Q1478
Lab Sample ID:	I.BLK-FG015456.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015456.D	1		03/06/25	FG030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.4		29 - 130	92%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015456.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 16:51
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 07 01:18:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.031	2009282	18.455 ug/ml
Target Compounds			

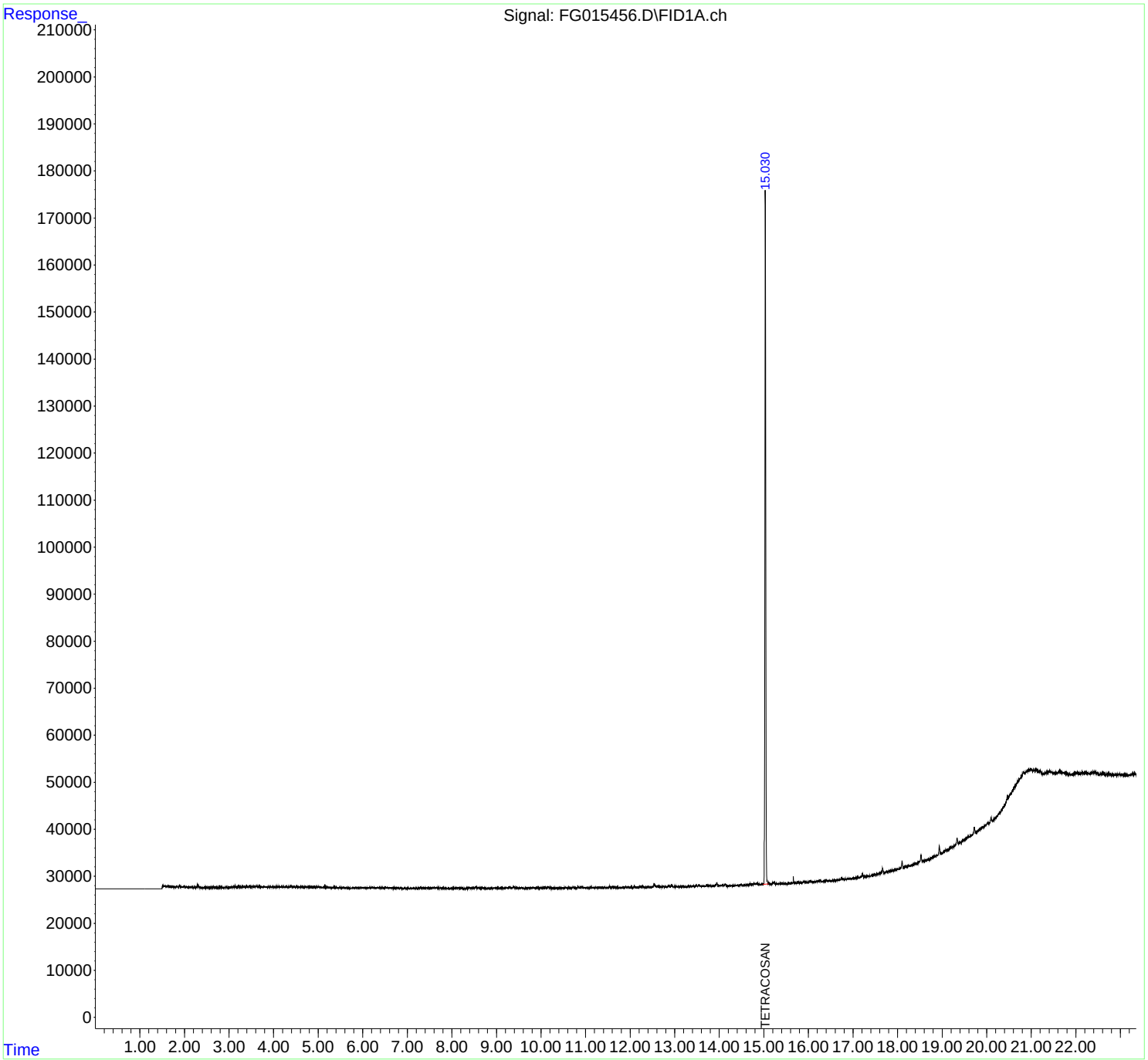
(f)=RT Delta > 1/2 Window (m)=manual int.

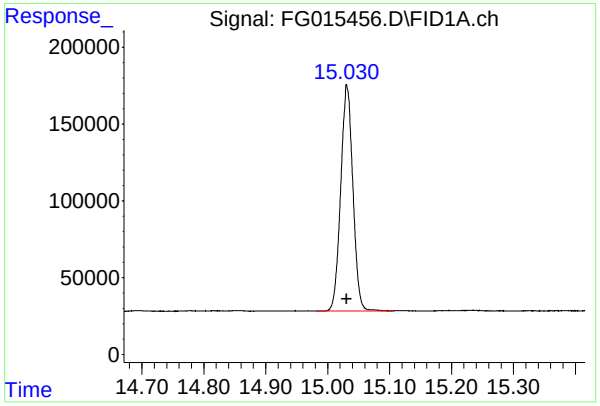
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015456.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 16:51
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 07 01:18:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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.: 15.031 min
Delta R.T.: 0.000 mi
Response: 2009282
Conc: 18.45 ug/m

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015456.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 16:51
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.031	14.981	15.105	BV	146404	2009282	100.00%	100.000%
			Sum of corrected areas:			2009282		

FG030325.M Fri Mar 07 01:39:56 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167008BS	SDG No.:	Q1478
Lab Sample ID:	PB167008BS	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015450.D	1	03/06/25 08:29	03/06/25 13:55	PB167008

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	230		10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	21.6		29 - 130	108%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015450.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 13:55
Operator : YP\AJ
Sample : PB167008BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167008BS

Integration File: autoint1.e
Quant Time: Mar 07 01:16:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.033	2347836	21.564 ug/ml
	Target Compounds			
2)	N-DECANE	4.530	2445293	21.975 ug/ml
3)	N-DODECANE	6.712	2672579	22.996 ug/ml
4)	N-TETRADECANE	8.549	2747234	23.842 ug/ml
5)	N-HEXADECANE	10.163	2864992	24.138 ug/ml
6)	N-OCTADECANE	11.612	2946151	23.789 ug/ml
7)	N-EICOSANE	12.927	2865519	23.590 ug/ml
8)	N-DOCOSANE	14.129	2746551	22.939 ug/ml
10)	N-TETRACOSANE	15.238	2677911	22.425 ug/ml
11)	N-HEXACOSANE	16.262	2583225	22.013 ug/ml
12)	N-OCTACOSANE	17.214	2509871	21.683 ug/ml

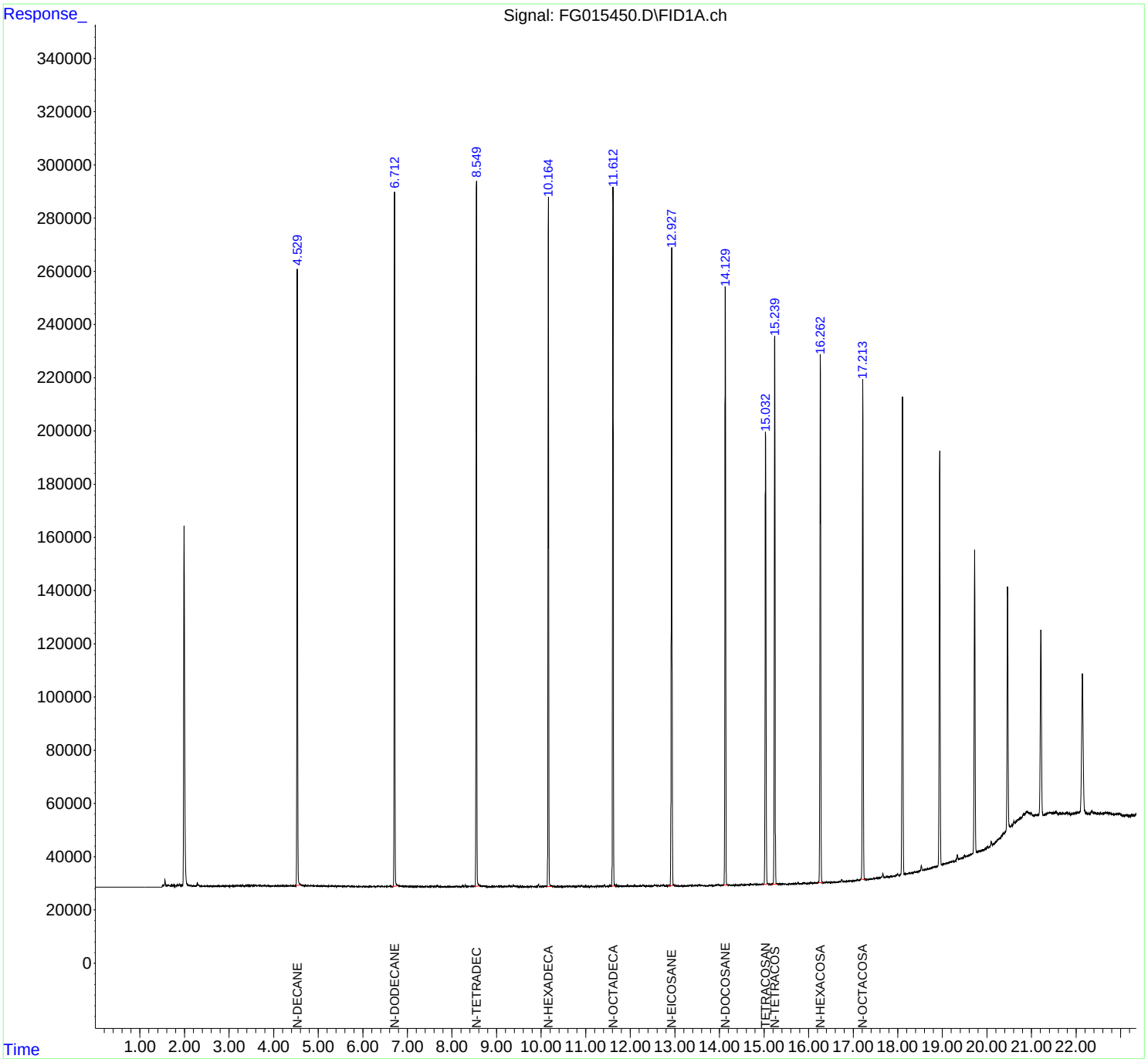
(f)=RT Delta > 1/2 Window (m)=manual int.

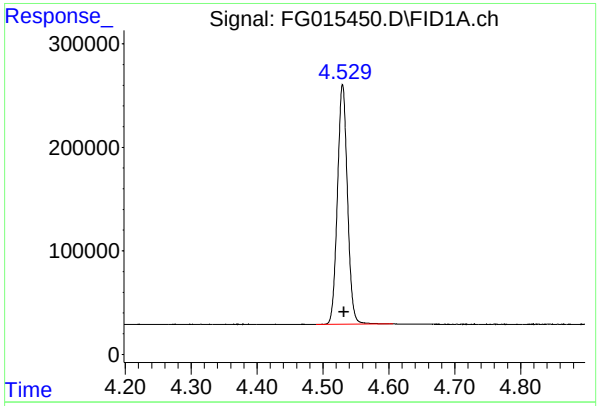
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015450.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 13:55
Operator : YP\AJ
Sample : PB167008BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167008BS

Integration File: autoint1.e
Quant Time: Mar 07 01:16:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

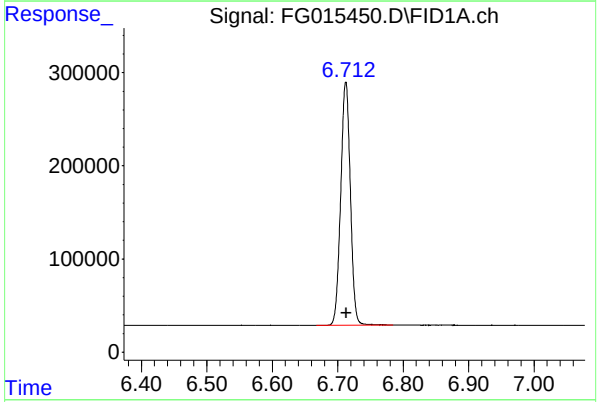




#2 N-DECANE

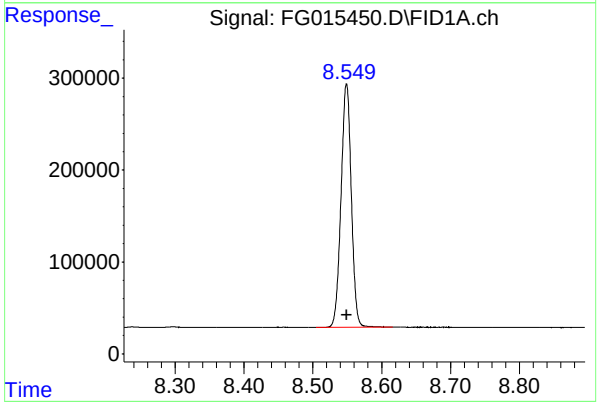
R.T.: 4.530 min
Delta R.T.: -0.002 min
Response: 2445293
Conc: 21.98 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167008BS



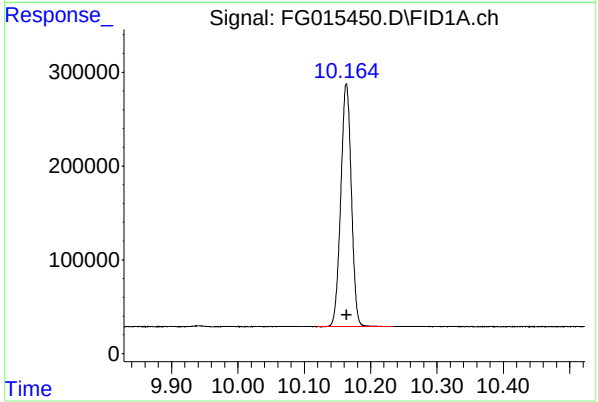
#3 N-DODECANE

R.T.: 6.712 min
Delta R.T.: -0.001 min
Response: 2672579
Conc: 23.00 ug/ml



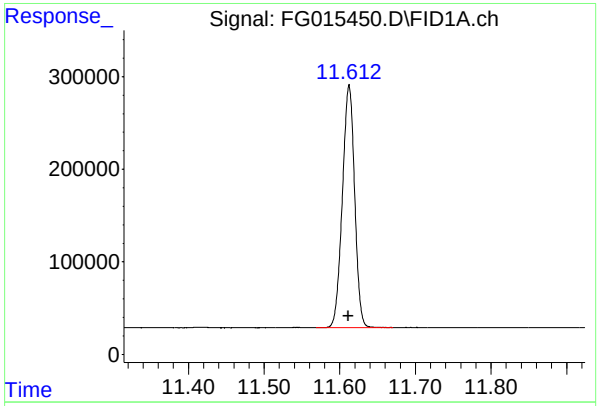
#4 N-TETRADECANE

R.T.: 8.549 min
Delta R.T.: 0.000 min
Response: 2747234
Conc: 23.84 ug/ml



#5 N-HEXADECANE

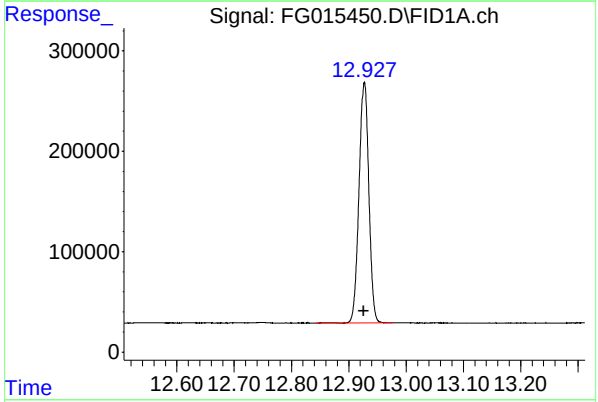
R.T.: 10.163 min
Delta R.T.: 0.000 min
Response: 2864992
Conc: 24.14 ug/ml



#6 N-OCTADECANE

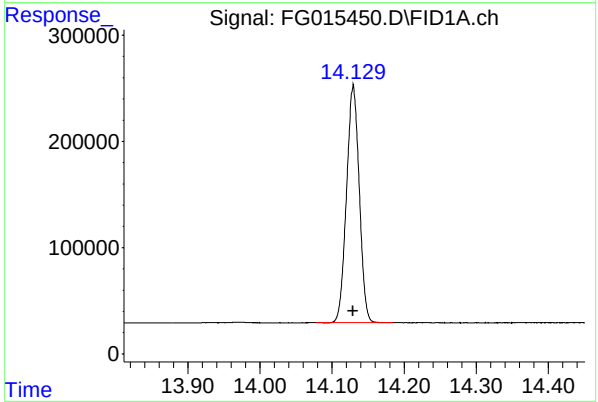
R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 2946151
Conc: 23.79 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167008BS



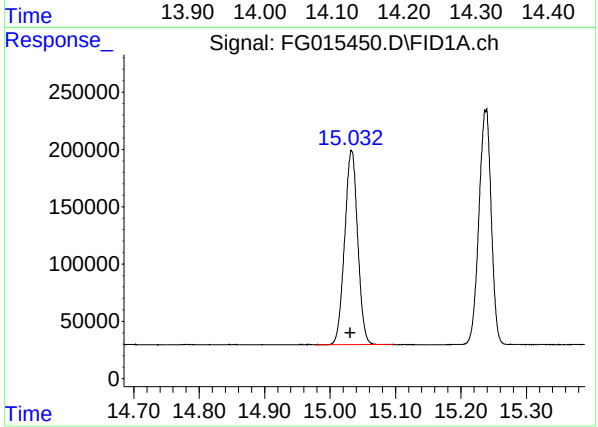
#7 N-EICOSANE

R.T.: 12.927 min
Delta R.T.: 0.001 min
Response: 2865519
Conc: 23.59 ug/ml



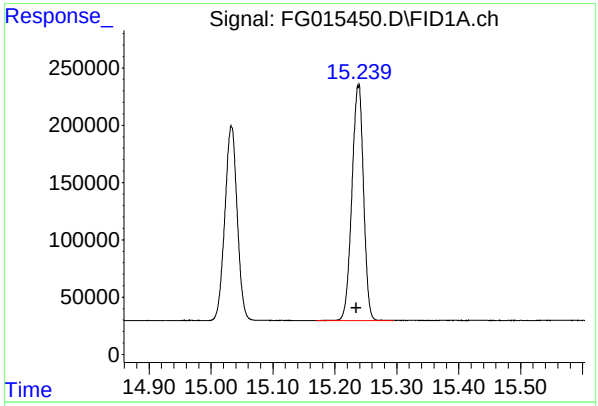
#8 N-DOCOSANE

R.T.: 14.129 min
Delta R.T.: 0.000 min
Response: 2746551
Conc: 22.94 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

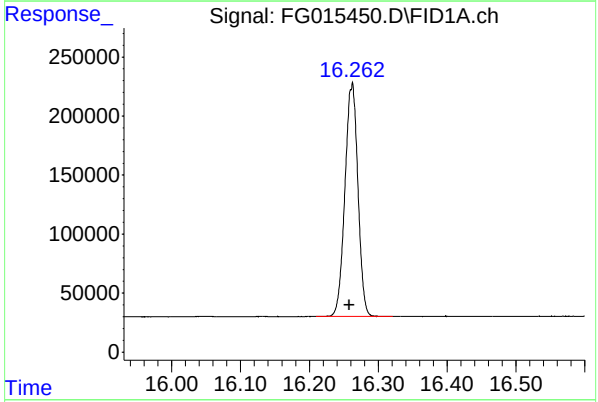
R.T.: 15.033 min
Delta R.T.: 0.002 min
Response: 2347836
Conc: 21.56 ug/ml



#10 N-TETRACOSANE

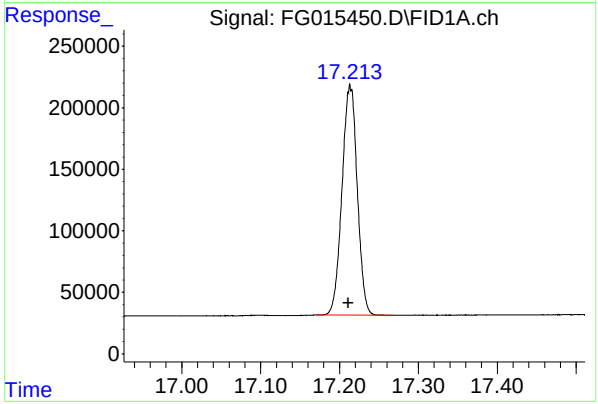
R.T.: 15.238 min
Delta R.T.: 0.004 min
Response: 2677911
Conc: 22.43 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167008BS



#11 N-HEXACOSANE

R.T.: 16.262 min
Delta R.T.: 0.004 min
Response: 2583225
Conc: 22.01 ug/ml



#12 N-OCTACOSANE

R.T.: 17.214 min
Delta R.T.: 0.002 min
Response: 2509871
Conc: 21.68 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015450.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 13:55
Sample : PB167008BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.530	4.490	4.606	BB	231602	2445293	83.00%	8.315%
2	6.712	6.667	6.785	BB	261128	2672579	90.71%	9.088%
3	8.549	8.505	8.616	BB	264793	2747234	93.25%	9.342%
4	10.163	10.118	10.234	BB	259060	2864992	97.25%	9.742%
5	11.612	11.569	11.670	BB	261807	2946151	100.00%	10.018%
6	12.927	12.843	12.977	BB	239876	2865519	97.26%	9.744%
7	14.129	14.078	14.185	BB	224254	2746551	93.23%	9.340%
8	15.033	14.979	15.096	BB	169155	2347836	79.69%	7.984%
9	15.238	15.170	15.294	BB	203331	2677911	90.90%	9.106%
10	16.262	16.210	16.321	BB	196354	2583225	87.68%	8.784%
11	17.214	17.170	17.268	BB	185849	2509871	85.19%	8.535%
			Sum of corrected areas:			29407163		

FG030325.M Fri Mar 07 01:38:54 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167017BS	SDG No.:	Q1478
Lab Sample ID:	PB167017BS	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
FF015620.D	1	03/05/25 13:12	03/06/25 11:28	PB167017

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	7620		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	20.0		37 - 130	100%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015620.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 11:28
Operator : YP\AJ
Sample : PB167017BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167017BS

Integration File: autoint1.e
Quant Time: Mar 07 00:35:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.022	2387048	20.020 ug/ml
	Target Compounds			
2)	N-DECANE	4.564	2482303	21.651 ug/ml
3)	N-DODECANE	6.732	2641196	22.151 ug/ml
4)	N-TETRADECANE	8.559	2705833	22.961 ug/ml
5)	N-HEXADECANE	10.167	2821565	23.364 ug/ml
6)	N-OCTADECANE	11.611	2973664	23.279 ug/ml
7)	N-EICOSANE	12.922	3021347	23.473 ug/ml
8)	N-DOCOSANE	14.121	2997252	23.149 ug/ml
10)	N-TETRACOSANE	15.226	3013626	22.951 ug/ml
11)	N-HEXACOSANE	16.249	2957295	22.919 ug/ml
12)	N-OCTACOSANE	17.201	2907481	22.709 ug/ml

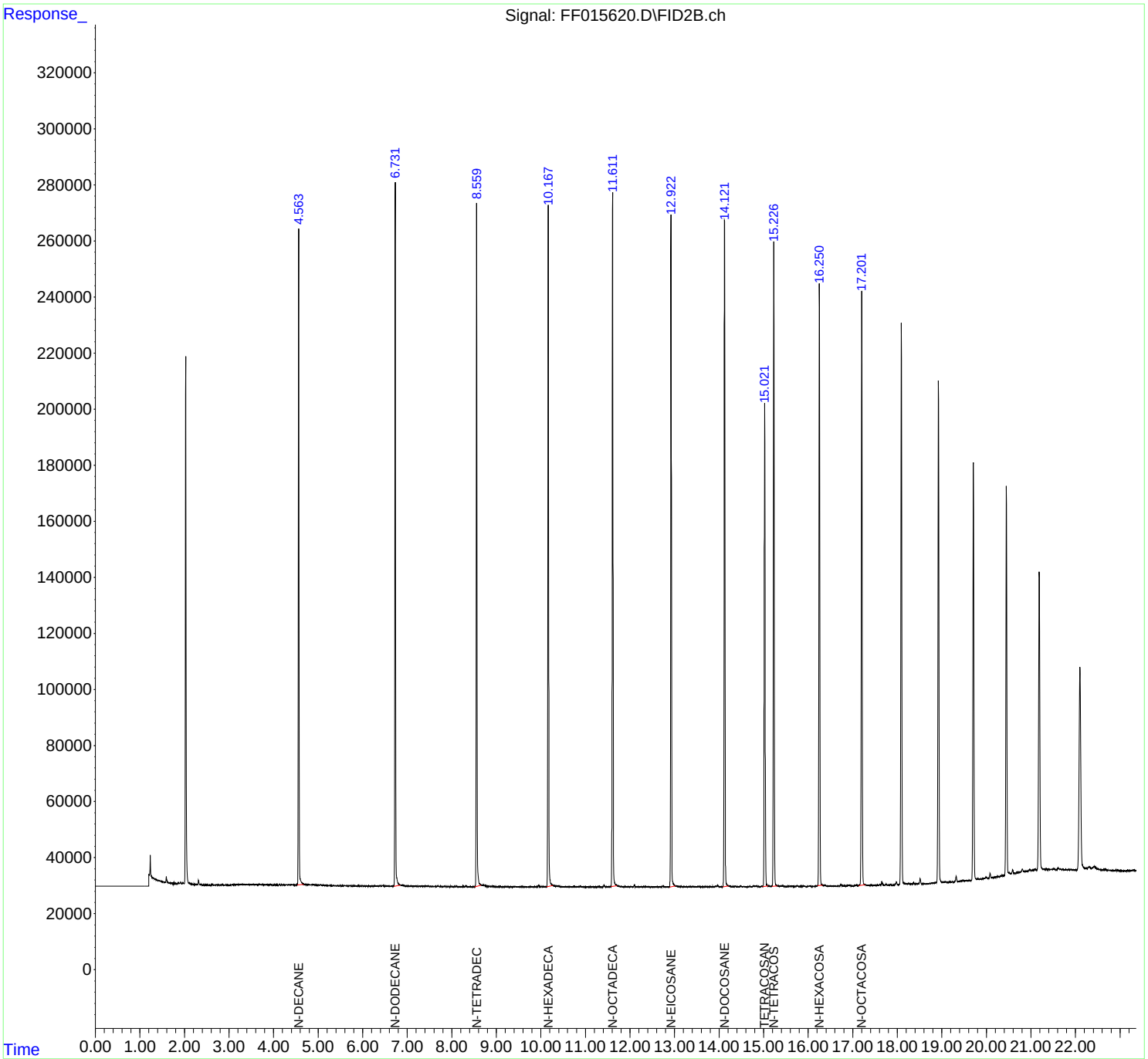
(f)=RT Delta > 1/2 Window (m)=manual int.

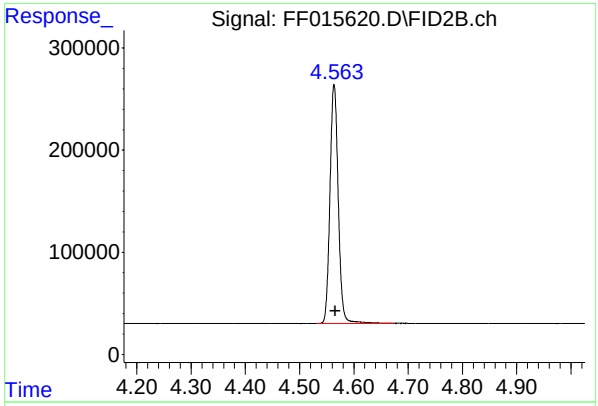
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015620.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 11:28
Operator : YP\AJ
Sample : PB167017BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167017BS

Integration File: autoint1.e
Quant Time: Mar 07 00:35:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

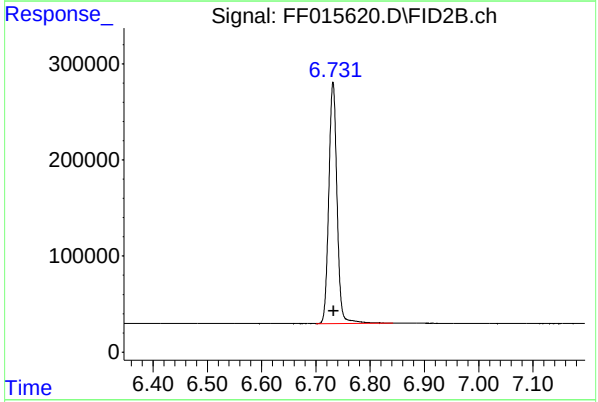




#2 N-DECANE

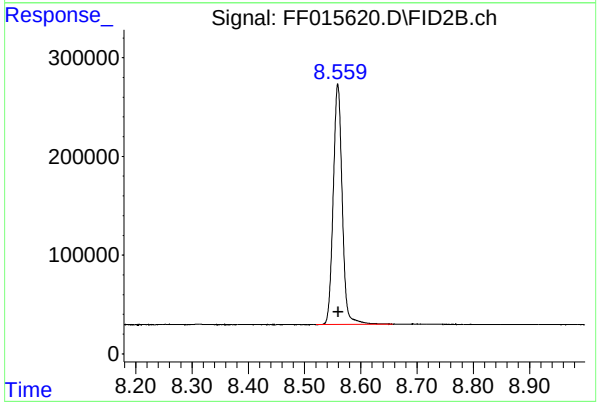
R.T.: 4.564 min
Delta R.T.: -0.002 min
Response: 2482303
Conc: 21.65 ug/ml

Instrument :
FID_F
ClientSampleId :
PB167017BS



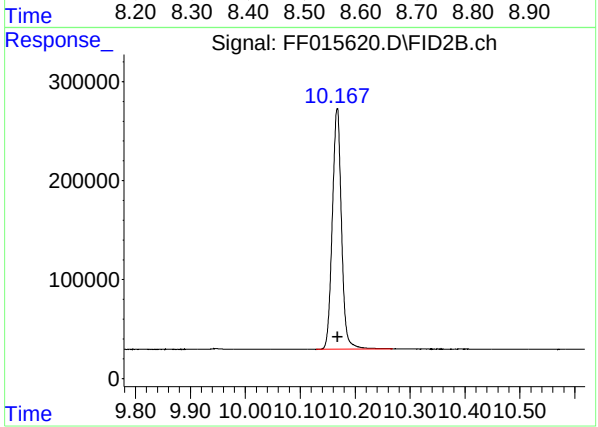
#3 N-DODECANE

R.T.: 6.732 min
Delta R.T.: -0.001 min
Response: 2641196
Conc: 22.15 ug/ml



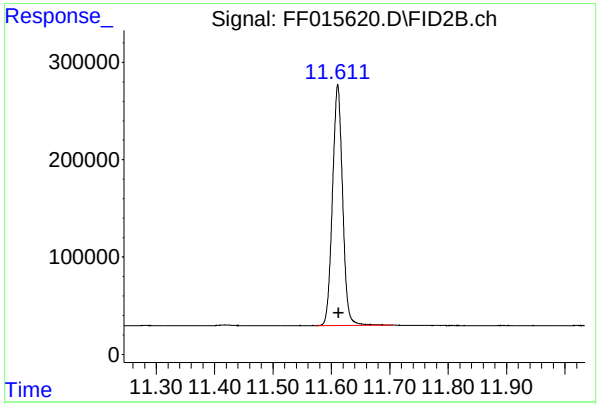
#4 N-TETRADECANE

R.T.: 8.559 min
Delta R.T.: -0.001 min
Response: 2705833
Conc: 22.96 ug/ml



#5 N-HEXADECANE

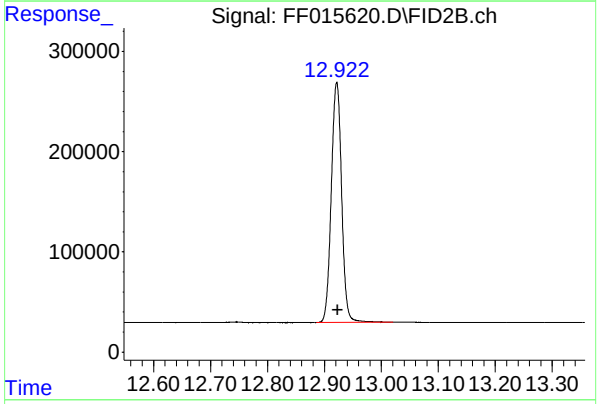
R.T.: 10.167 min
Delta R.T.: 0.000 min
Response: 2821565
Conc: 23.36 ug/ml



#6 N-OCTADECANE

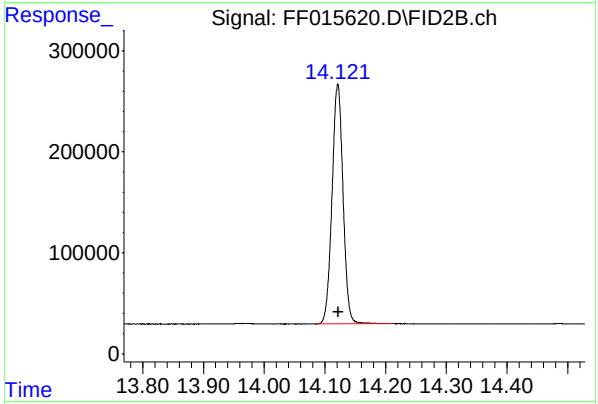
R.T.: 11.611 min
Delta R.T.: 0.000 min
Response: 2973664
Conc: 23.28 ug/ml

Instrument :
FID_F
ClientSampleId :
PB167017BS



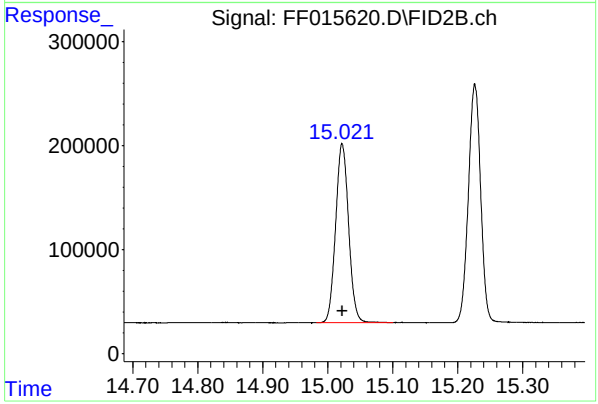
#7 N-EICOSANE

R.T.: 12.922 min
Delta R.T.: -0.001 min
Response: 3021347
Conc: 23.47 ug/ml



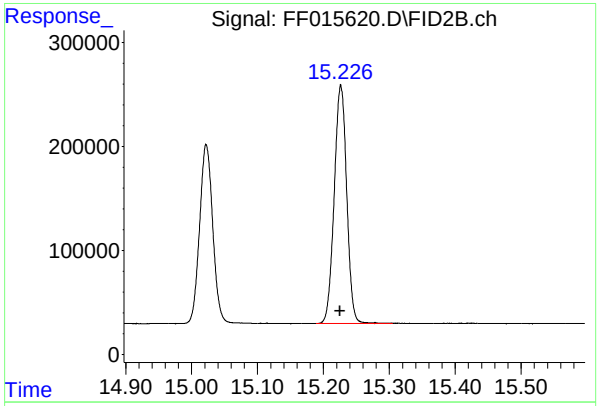
#8 N-DOCOSANE

R.T.: 14.121 min
Delta R.T.: -0.001 min
Response: 2997252
Conc: 23.15 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

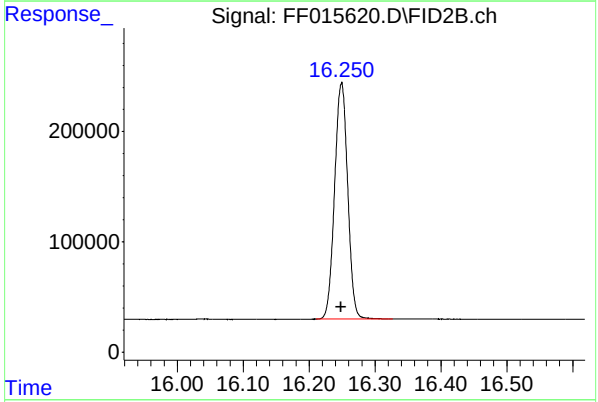
R.T.: 15.022 min
Delta R.T.: 0.000 min
Response: 2387048
Conc: 20.02 ug/ml



#10 N-TETRACOSANE

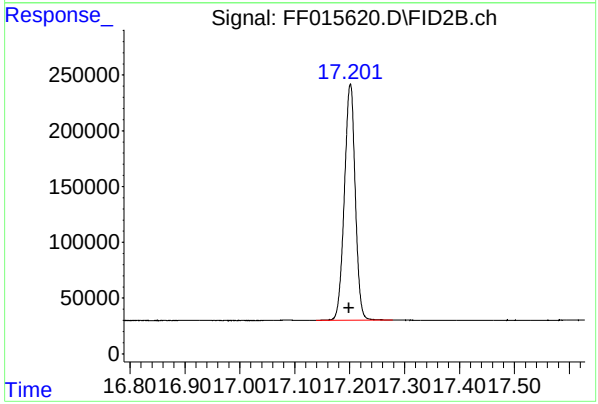
R.T.: 15.226 min
Delta R.T.: 0.000 min
Response: 3013626
Conc: 22.95 ug/ml

Instrument :
FID_F
ClientSampleId :
PB167017BS



#11 N-HEXACOSANE

R.T.: 16.249 min
Delta R.T.: 0.000 min
Response: 2957295
Conc: 22.92 ug/ml



#12 N-OCTACOSANE

R.T.: 17.201 min
Delta R.T.: 0.003 min
Response: 2907481
Conc: 22.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015620.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 11:28
Sample : PB167017BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.564	4.530	4.672	BB	233951	2482303	82.16%	8.031%
2	6.732	6.700	6.842	BB	251069	2641196	87.42%	8.545%
3	8.559	8.520	8.657	BB	243729	2705833	89.56%	8.754%
4	10.167	10.129	10.269	BB	243426	2821565	93.39%	9.129%
5	11.611	11.574	11.705	BB	247114	2973664	98.42%	9.621%
6	12.922	12.885	13.020	BB	239785	3021347	100.00%	9.775%
7	14.121	14.085	14.212	BB	238382	2997252	99.20%	9.697%
8	15.022	14.982	15.100	BB	172174	2387048	79.01%	7.723%
9	15.226	15.189	15.305	BB	228359	3013626	99.74%	9.750%
10	16.249	16.210	16.327	BB	213823	2957295	97.88%	9.568%
11	17.201	17.139	17.279	BB	212160	2907481	96.23%	9.407%
			Sum of corrected areas:			30908610		

FF030325.M Fri Mar 07 00:55:34 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167008BSD	SDG No.:	Q1478
Lab Sample ID:	PB167008BSD	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015451.D	1	03/06/25 08:29	03/06/25 14:24	PB167008

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	209		10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	20.2		29 - 130	101%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015451.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 14:24
Operator : YP\AJ
Sample : PB167008BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167008BSD

Integration File: autoint1.e
Quant Time: Mar 07 01:16:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 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...	15.033	2198151	20.189 ug/ml
	Target Compounds			
2)	N-DECANE	4.530	2213048	19.888 ug/ml
3)	N-DODECANE	6.712	2412816	20.761 ug/ml
4)	N-TETRADECANE	8.549	2485289	21.568 ug/ml
5)	N-HEXADECANE	10.163	2595012	21.864 ug/ml
6)	N-OCTADECANE	11.612	2676940	21.615 ug/ml
7)	N-EICOSANE	12.927	2607468	21.466 ug/ml
8)	N-DOCOSANE	14.130	2515724	21.012 ug/ml
10)	N-TETRACOSANE	15.236	2443549	20.463 ug/ml
11)	N-HEXACOSANE	16.261	2362597	20.133 ug/ml
12)	N-OCTACOSANE	17.212	2290206	19.785 ug/ml

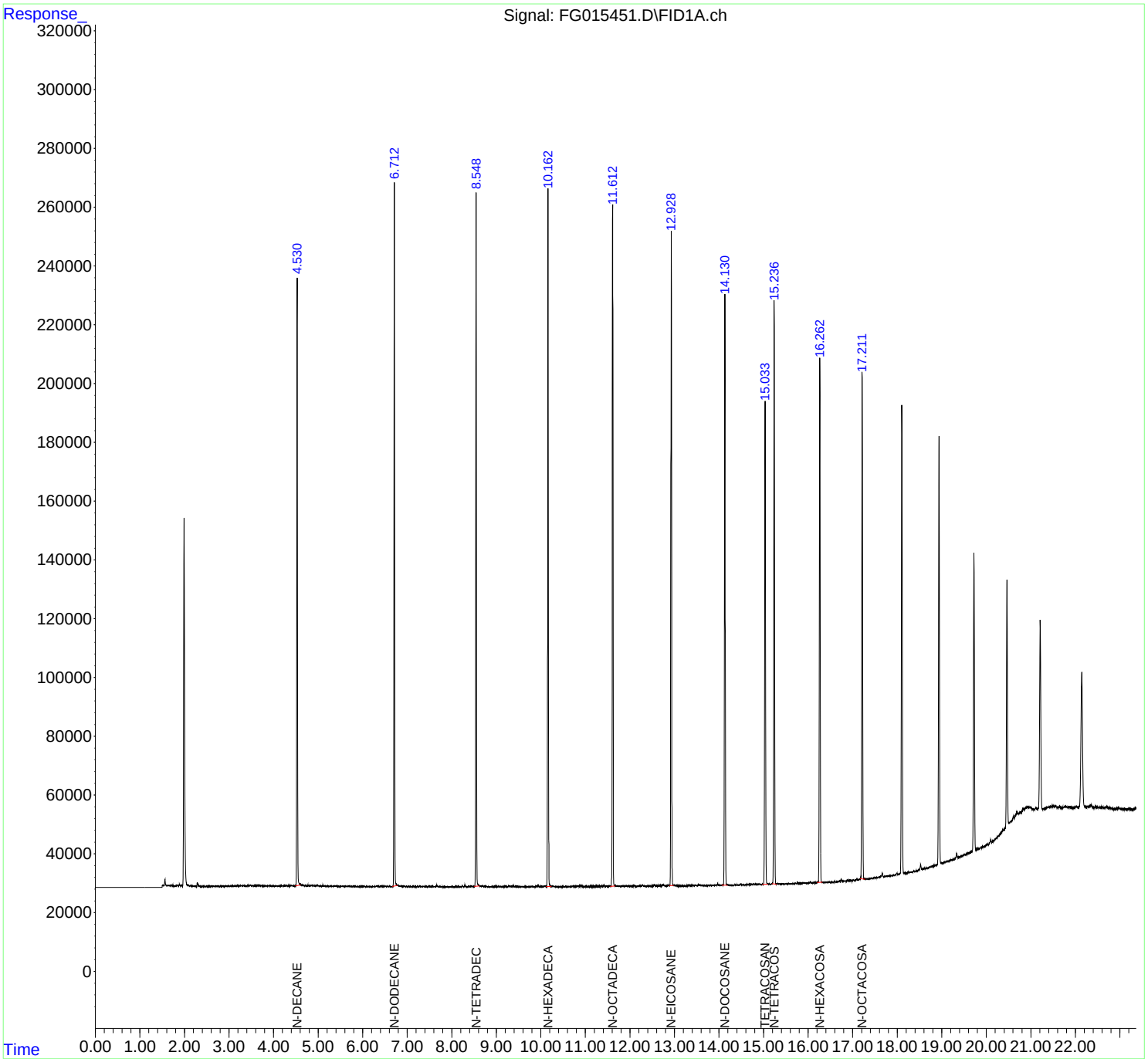
(f)=RT Delta > 1/2 Window (m)=manual int.

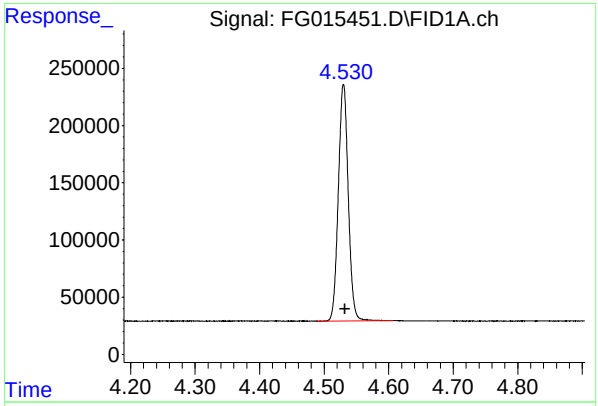
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015451.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 14:24
Operator : YP\AJ
Sample : PB167008BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167008BSD

Integration File: autoint1.e
Quant Time: Mar 07 01:16:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Quant Title :
QLast Update : Mon Mar 03 14:06:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

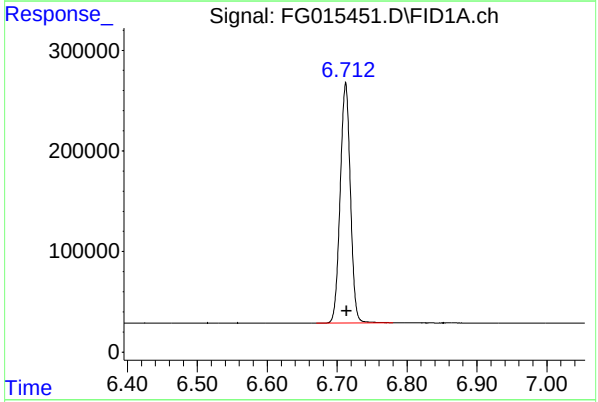




#2 N-DECANE

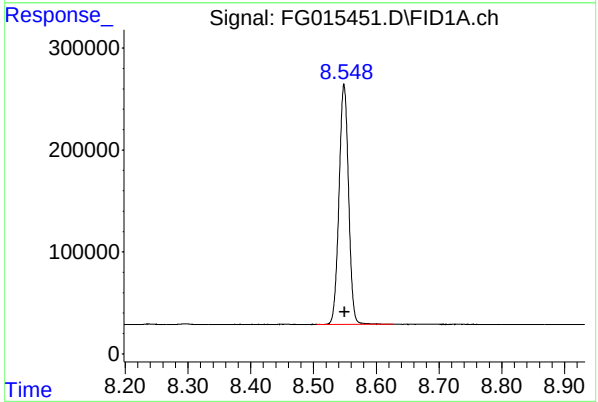
R.T.: 4.530 min
Delta R.T.: -0.002 min
Response: 2213048
Conc: 19.89 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167008BSD



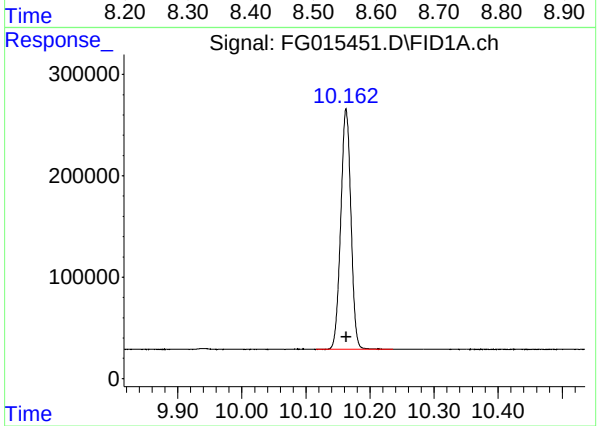
#3 N-DODECANE

R.T.: 6.712 min
Delta R.T.: -0.001 min
Response: 2412816
Conc: 20.76 ug/ml



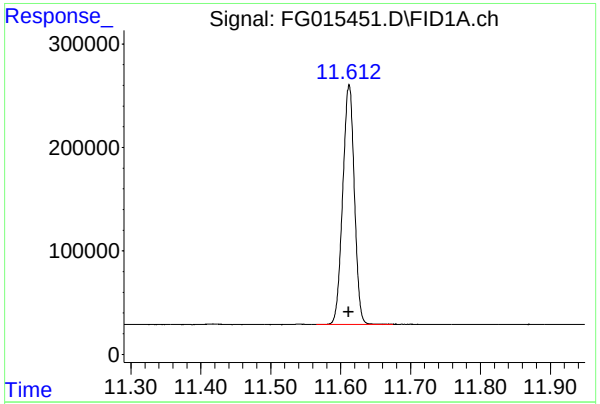
#4 N-TETRADECANE

R.T.: 8.549 min
Delta R.T.: 0.000 min
Response: 2485289
Conc: 21.57 ug/ml



#5 N-HEXADECANE

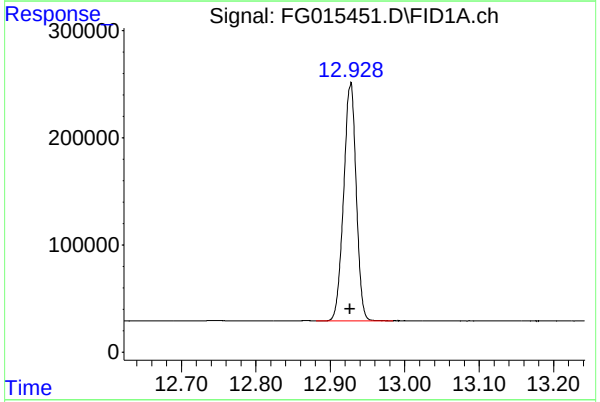
R.T.: 10.163 min
Delta R.T.: 0.000 min
Response: 2595012
Conc: 21.86 ug/ml



#6 N-OCTADECANE

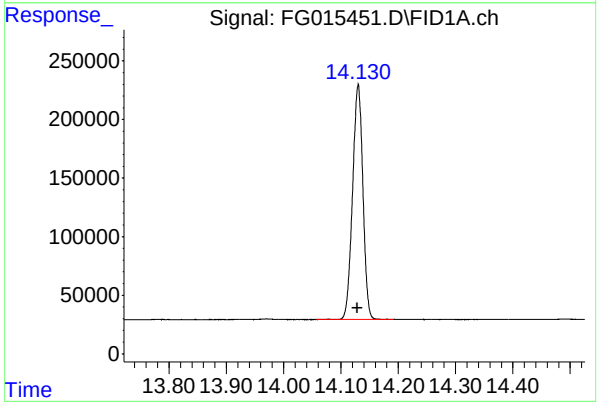
R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 2676940
Conc: 21.62 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167008BSD



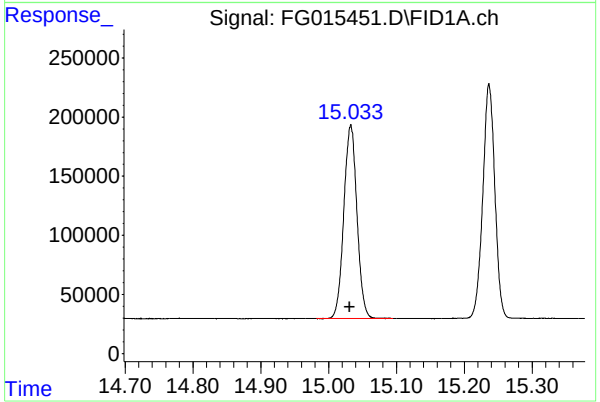
#7 N-EICOSANE

R.T.: 12.927 min
Delta R.T.: 0.001 min
Response: 2607468
Conc: 21.47 ug/ml



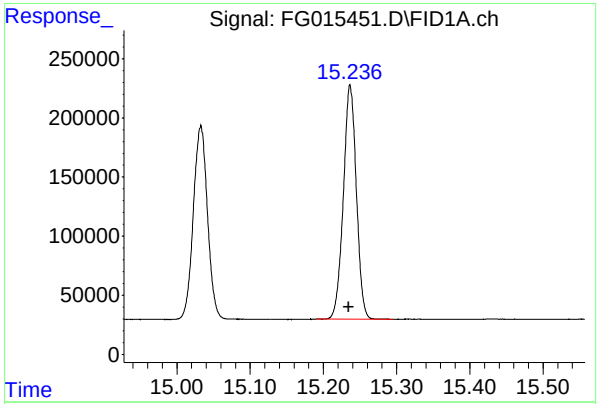
#8 N-DOCOSANE

R.T.: 14.130 min
Delta R.T.: 0.001 min
Response: 2515724
Conc: 21.01 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

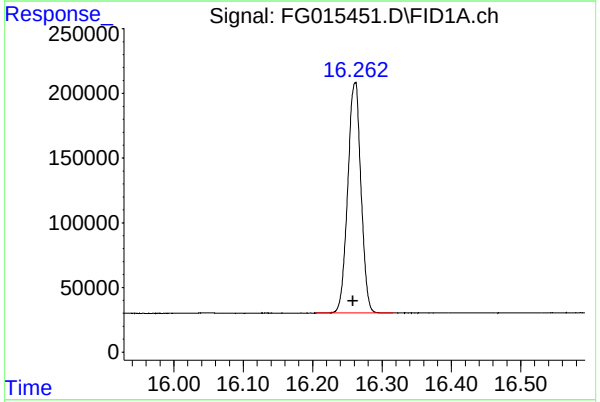
R.T.: 15.033 min
Delta R.T.: 0.002 min
Response: 2198151
Conc: 20.19 ug/ml



#10 N-TETRACOSANE

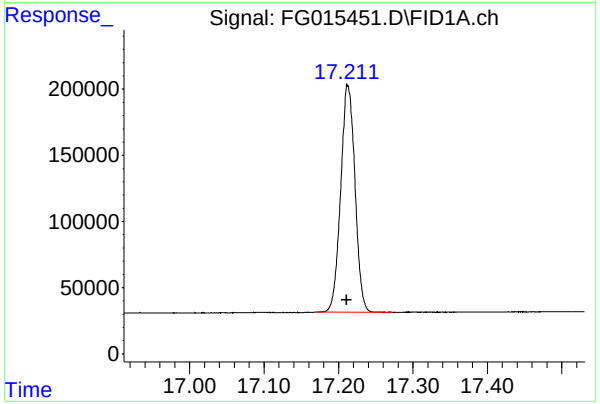
R.T.: 15.236 min
Delta R.T.: 0.002 min
Response: 2443549
Conc: 20.46 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167008BSD



#11 N-HEXACOSANE

R.T.: 16.261 min
Delta R.T.: 0.003 min
Response: 2362597
Conc: 20.13 ug/ml



#12 N-OCTACOSANE

R.T.: 17.212 min
Delta R.T.: 0.001 min
Response: 2290206
Conc: 19.79 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG030625\
Data File : FG015451.D
Signal(s) : FID1A.ch
Acq On : 06 Mar 2025 14:24
Sample : PB167008BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG030325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.530	4.487	4.607	BB	206705	2213048	82.67%	8.257%
2	6.712	6.670	6.780	BB	239256	2412816	90.13%	9.003%
3	8.549	8.504	8.627	BB	235349	2485289	92.84%	9.273%
4	10.163	10.116	10.236	BB	237188	2595012	96.94%	9.683%
5	11.612	11.565	11.675	BB	231850	2676940	100.00%	9.988%
6	12.927	12.881	12.984	BB	221106	2607468	97.40%	9.729%
7	14.130	14.057	14.191	BB	200154	2515724	93.98%	9.387%
8	15.033	14.982	15.095	BB	163461	2198151	82.11%	8.202%
9	15.236	15.190	15.295	BB	198487	2443549	91.28%	9.117%
10	16.261	16.205	16.316	BB	177912	2362597	88.26%	8.815%
11	17.212	17.170	17.273	BB	170679	2290206	85.55%	8.545%
			Sum of corrected areas:			26800798		

FG030325.M Fri Mar 07 01:39:29 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-SO-COMP-022825MS	SDG No.:	Q1478
Lab Sample ID:	Q1478-14MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84.4 Decanted:
Sample Wt/Vol:	30.06 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
FF015622.D	1	03/05/25 13:12	03/06/25 12:27	PB167017

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8600		219	1970	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.5		37 - 130	58%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015622.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 12:27
Operator : YP\AJ
Sample : Q1478-14MS
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MS

Integration File: autoint1.e
Quant Time: Mar 07 00:36:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.023	1375480	11.536 ug/ml
	Target Compounds			
2)	N-DECANE	4.565	1937178	16.896 ug/ml
3)	N-DODECANE	6.732	2088202	17.513 ug/ml
4)	N-TETRADECANE	8.560	2178133	18.483 ug/ml
5)	N-HEXADECANE	10.167	2318261	19.196 ug/ml
6)	N-OCTADECANE	11.612	2437182	19.079 ug/ml
7)	N-EICOSANE	12.923	2483121	19.291 ug/ml
8)	N-DOCOSANE	14.123	2465430	19.041 ug/ml
10)	N-TETRACOSANE	15.228	2451075	18.667 ug/ml
11)	N-HEXACOSANE	16.250	2431823	18.847 ug/ml
12)	N-OCTACOSANE	17.201	2409955	18.823 ug/ml

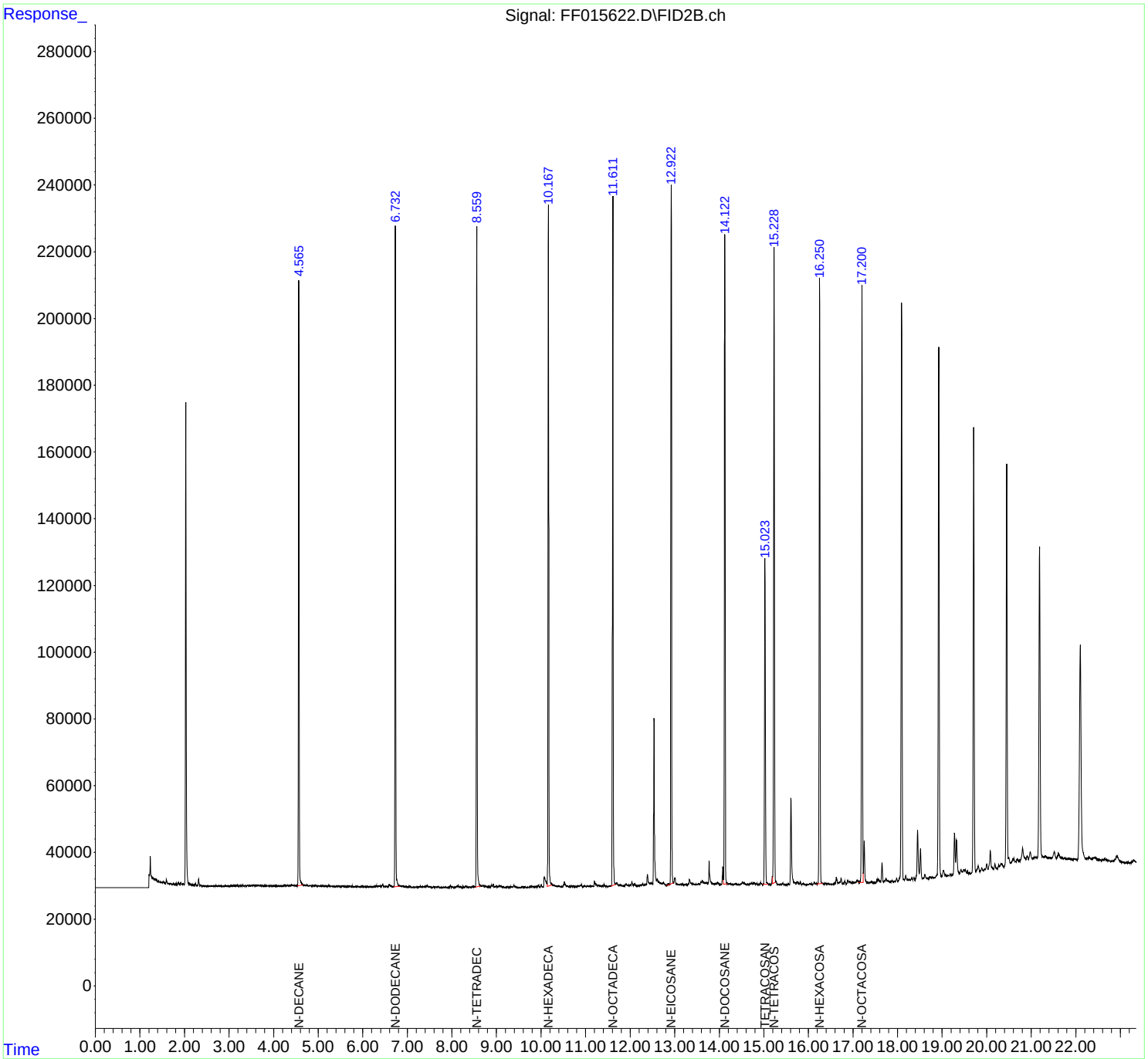
(f)=RT Delta > 1/2 Window (m)=manual int.

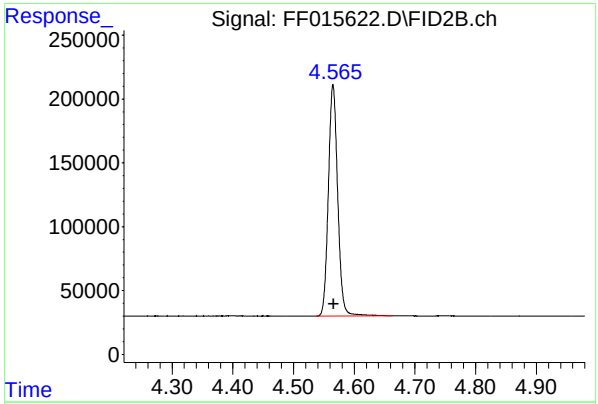
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015622.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 12:27
Operator : YP\AJ
Sample : Q1478-14MS
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MS

Integration File: autoint1.e
Quant Time: Mar 07 00:36:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

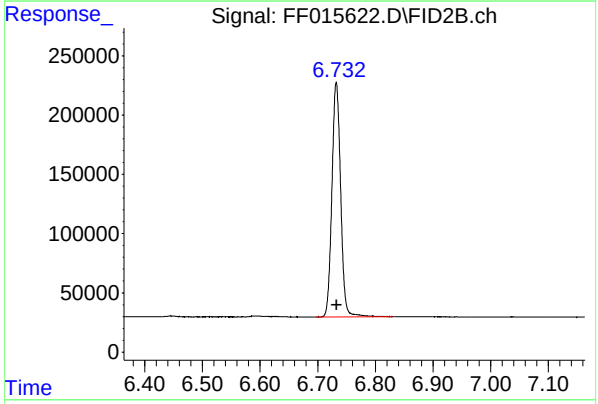




#2 N-DECANE

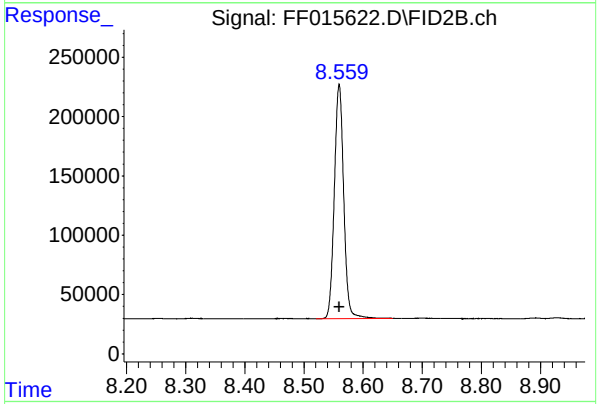
R.T.: 4.565 min
Delta R.T.: 0.000 min
Response: 1937178
Conc: 16.90 ug/ml

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MS



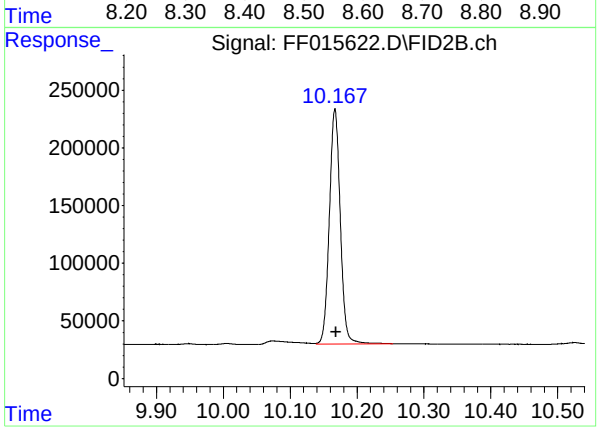
#3 N-DODECANE

R.T.: 6.732 min
Delta R.T.: 0.000 min
Response: 2088202
Conc: 17.51 ug/ml



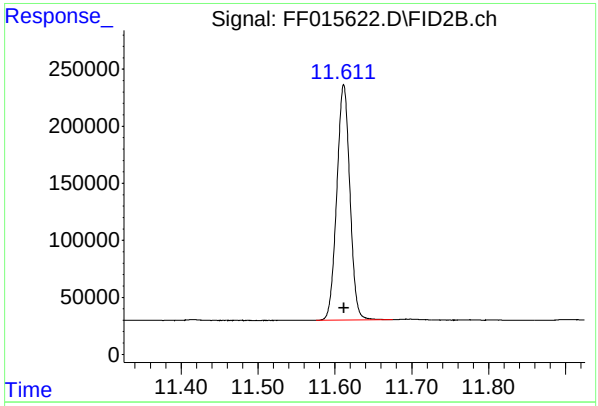
#4 N-TETRADECANE

R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 2178133
Conc: 18.48 ug/ml



#5 N-HEXADECANE

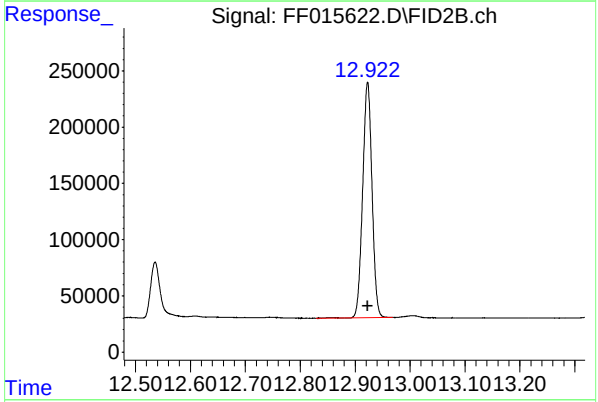
R.T.: 10.167 min
Delta R.T.: -0.001 min
Response: 2318261
Conc: 19.20 ug/ml



#6 N-OCTADECANE

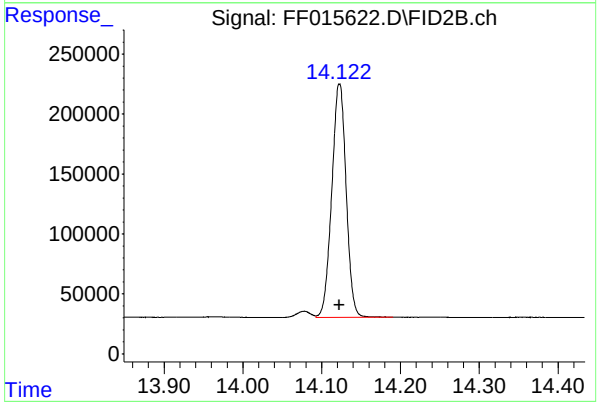
R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 2437182
Conc: 19.08 ug/ml

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MS



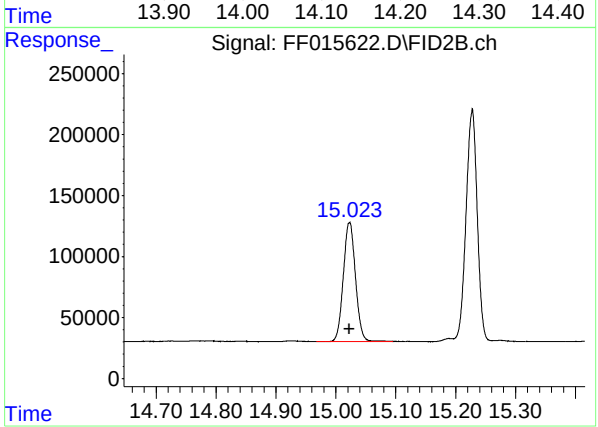
#7 N-EICOSANE

R.T.: 12.923 min
Delta R.T.: 0.000 min
Response: 2483121
Conc: 19.29 ug/ml



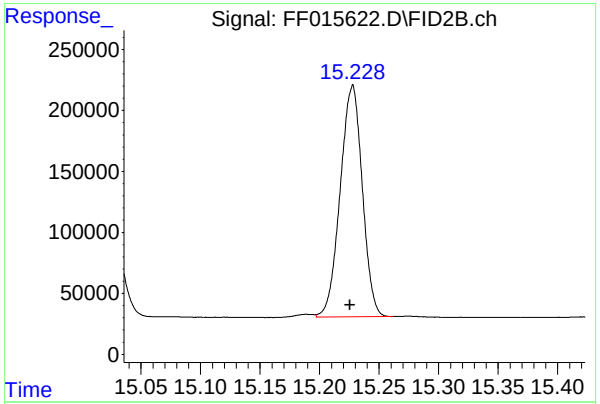
#8 N-DOCOSANE

R.T.: 14.123 min
Delta R.T.: 0.000 min
Response: 2465430
Conc: 19.04 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

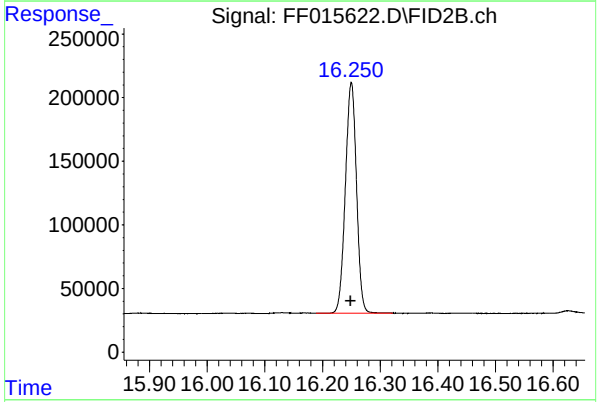
R.T.: 15.023 min
Delta R.T.: 0.000 min
Response: 1375480
Conc: 11.54 ug/ml



#10 N-TETRACOSANE

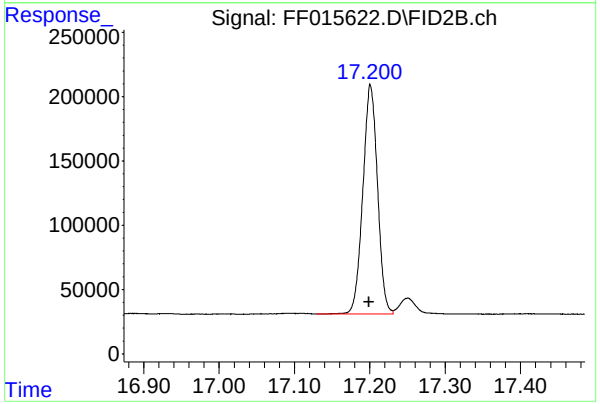
R.T.: 15.228 min
Delta R.T.: 0.002 mi
Response: 2451075
Conc: 18.67 ug/m

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MS



#11 N-HEXACOSANE

R.T.: 16.250 min
Delta R.T.: 0.002 min
Response: 2431823
Conc: 18.85 ug/ml



#12 N-OCTACOSANE

R.T.: 17.201 min
Delta R.T.: 0.002 min
Response: 2409955
Conc: 18.82 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015622.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 12:27
Sample : Q1478-14MS
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.413	4.400	4.425	BV	62	324	0.01%	0.001%
2	4.457	4.425	4.468	PV	143	2003	0.08%	0.007%
3	4.470	4.468	4.481	VV	114	344	0.01%	0.001%
4	4.487	4.481	4.492	PV	125	345	0.01%	0.001%
5	4.497	4.492	4.503	VV	93	449	0.02%	0.002%
6	4.506	4.503	4.538	VV	119	1219	0.05%	0.004%
7	4.565	4.538	4.674	VV	181461	1951906	77.61%	6.832%
8	4.686	4.674	4.710	VV	436	5678	0.23%	0.020%
9	4.712	4.710	4.718	VV	198	789	0.03%	0.003%
10	4.722	4.718	4.728	VV	121	611	0.02%	0.002%
11	4.747	4.728	4.776	VV	411	7253	0.29%	0.025%
12	4.781	4.776	4.796	VV	197	1990	0.08%	0.007%
13	4.802	4.796	4.816	VV	186	1722	0.07%	0.006%
14	4.819	4.816	4.835	VV	154	1439	0.06%	0.005%
15	4.848	4.835	4.865	VV	217	2798	0.11%	0.010%
16	4.873	4.865	4.877	VV	205	1138	0.05%	0.004%
17	4.880	4.877	4.886	VV	188	983	0.04%	0.003%
18	4.902	4.886	4.922	VV	215	3493	0.14%	0.012%
19	4.935	4.922	4.942	VV	206	2138	0.09%	0.007%
20	4.954	4.942	4.962	VV	190	1831	0.07%	0.006%
21	4.969	4.962	4.983	VV	191	1880	0.07%	0.007%
22	4.987	4.983	5.013	VV	200	2785	0.11%	0.010%
23	5.027	5.013	5.040	VV	244	2806	0.11%	0.010%
24	5.053	5.040	5.059	VV	230	1732	0.07%	0.006%
25	5.066	5.059	5.073	VV	182	1287	0.05%	0.005%
26	5.076	5.073	5.087	VV	203	1439	0.06%	0.005%
27	5.091	5.087	5.121	VV	220	2925	0.12%	0.010%
28	5.128	5.121	5.145	VV	177	1889	0.08%	0.007%
29	5.156	5.145	5.173	VV	198	2059	0.08%	0.007%
30	5.188	5.173	5.208	VV	198	2578	0.10%	0.009%
31	5.232	5.208	5.258	VV	396	6596	0.26%	0.023%
32	5.266	5.258	5.271	VV	190	1067	0.04%	0.004%
33	5.300	5.271	5.310	VV	175	3190	0.13%	0.011%
34	5.315	5.310	5.345	VV	180	2214	0.09%	0.008%
35	5.350	5.345	5.355	VV	113	467	0.02%	0.002%
36	5.362	5.355	5.367	VV	111	509	0.02%	0.002%

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37	5.381	5.367	5.387	VV	106	887	0.04%	0.003%
38	5.392	5.387	5.398	PV	49	335	0.01%	0.001%
39	5.412	5.398	5.418	VV	137	979	0.04%	0.003%
40	5.433	5.418	5.455	VV	157	1646	0.07%	0.006%
41	5.461	5.455	5.497	VV	110	2146	0.09%	0.008%
42	5.498	5.497	5.503	VV	135	318	0.01%	0.001%
43	5.509	5.503	5.527	VV	126	966	0.04%	0.003%
44	5.532	5.527	5.543	VV	156	1167	0.05%	0.004%
45	5.551	5.543	5.575	VV	264	3344	0.13%	0.012%
46	5.577	5.575	5.603	VV	228	2214	0.09%	0.008%
47	5.611	5.603	5.624	VV	135	1068	0.04%	0.004%
48	5.630	5.624	5.635	VV	154	778	0.03%	0.003%
49	5.639	5.635	5.643	VV	199	635	0.03%	0.002%
50	5.648	5.643	5.653	VV	124	607	0.02%	0.002%
51	5.658	5.653	5.673	VV	119	1110	0.04%	0.004%
52	5.708	5.673	5.729	VV	290	5026	0.20%	0.018%
53	5.733	5.729	5.742	VV	149	803	0.03%	0.003%
54	5.744	5.742	5.755	VV	116	772	0.03%	0.003%
55	5.758	5.755	5.769	VV	376	838	0.03%	0.003%
56	5.776	5.769	5.791	VV	127	1098	0.04%	0.004%
57	5.802	5.791	5.816	VV	146	1464	0.06%	0.005%
58	5.820	5.816	5.828	VV	123	562	0.02%	0.002%
59	5.834	5.828	5.848	VV	126	983	0.04%	0.003%
60	5.858	5.848	5.874	VV	143	1455	0.06%	0.005%
61	5.877	5.874	5.889	VV	156	827	0.03%	0.003%
62	5.895	5.889	5.900	VV	148	719	0.03%	0.003%
63	5.904	5.900	5.911	VV	109	594	0.02%	0.002%
64	5.918	5.911	5.923	VV	66	435	0.02%	0.002%
65	5.935	5.923	5.938	VV	111	604	0.02%	0.002%
66	5.942	5.938	5.949	VV	92	509	0.02%	0.002%
67	5.984	5.949	5.993	VV	206	3595	0.14%	0.013%
68	6.012	5.993	6.018	VV	158	1730	0.07%	0.006%
69	6.023	6.018	6.032	VV	136	851	0.03%	0.003%
70	6.042	6.032	6.055	VV	144	1881	0.07%	0.007%
71	6.056	6.055	6.078	VV	195	1670	0.07%	0.006%
72	6.084	6.078	6.104	VV	190	2045	0.08%	0.007%
73	6.112	6.104	6.118	VV	150	830	0.03%	0.003%
74	6.122	6.118	6.133	VV	144	563	0.02%	0.002%
75	6.139	6.133	6.156	VV	166	741	0.03%	0.003%
76	6.176	6.156	6.189	VV	146	1112	0.04%	0.004%
77	6.233	6.189	6.259	PV	229	4670	0.19%	0.016%
78	6.276	6.259	6.302	VV	363	5651	0.22%	0.020%
79	6.307	6.302	6.362	VV	485	10340	0.41%	0.036%
80	6.382	6.362	6.394	VV	348	5512	0.22%	0.019%
81	6.397	6.394	6.424	VV	363	4786	0.19%	0.017%
82	6.446	6.424	6.469	VV	974	14560	0.58%	0.051%
83	6.478	6.469	6.484	VV	263	1894	0.08%	0.007%
84	6.489	6.484	6.504	VV	211	2351	0.09%	0.008%
85	6.515	6.504	6.525	VV	275	2964	0.12%	0.010%
86	6.531	6.525	6.566	VV	242	5206	0.21%	0.018%
87	6.571	6.566	6.574	VV	231	1024	0.04%	0.004%
88	6.591	6.574	6.622	VV	961	17955	0.71%	0.063%
89	6.625	6.622	6.660	VV	541	7348	0.29%	0.026%

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90	6.665	6.660	6.671	VV	188	899	0.04%	0.003%
91	6.676	6.671	6.684	VV	149	839	0.03%	0.003%
92	6.732	6.684	6.842	VV	198033	2111878	83.97%	7.392%
93	6.850	6.842	6.874	VV	396	6503	0.26%	0.023%
94	6.879	6.874	6.889	VV	397	3039	0.12%	0.011%
95	6.893	6.889	6.932	VV	405	7024	0.28%	0.025%
96	6.941	6.932	6.947	VV	265	1831	0.07%	0.006%
97	6.965	6.947	7.000	VV	226	5378	0.21%	0.019%
98	7.006	7.000	7.026	VV	156	2058	0.08%	0.007%
99	7.037	7.026	7.043	VV	215	1730	0.07%	0.006%
100	7.048	7.043	7.074	VV	165	2302	0.09%	0.008%
101	7.077	7.074	7.082	VV	101	424	0.02%	0.001%
102	7.085	7.082	7.088	VV	113	292	0.01%	0.001%
103	7.091	7.088	7.097	VV	103	445	0.02%	0.002%
104	7.108	7.097	7.112	VV	122	820	0.03%	0.003%
105	7.117	7.112	7.145	VV	63	1140	0.05%	0.004%
106	7.147	7.145	7.161	VV	115	555	0.02%	0.002%
107	7.167	7.161	7.177	VV	92	476	0.02%	0.002%
108	7.183	7.177	7.190	VV	90	547	0.02%	0.002%
109	7.194	7.190	7.198	VV	103	331	0.01%	0.001%
110	7.227	7.198	7.245	VV	147	2734	0.11%	0.010%
111	7.252	7.245	7.262	VV	143	1095	0.04%	0.004%
112	7.305	7.262	7.346	VV	227	9977	0.40%	0.035%
113	7.354	7.346	7.363	VV	251	2160	0.09%	0.008%
114	7.379	7.363	7.396	VV	242	4092	0.16%	0.014%
115	7.434	7.396	7.443	VV	463	8891	0.35%	0.031%
116	7.458	7.443	7.569	VV	467	13936	0.55%	0.049%
117	7.591	7.569	7.617	VV	178	3432	0.14%	0.012%
118	7.631	7.617	7.661	VV	222	3387	0.13%	0.012%
119	7.686	7.661	7.745	VV	380	7376	0.29%	0.026%
120	7.752	7.745	7.770	VV	23	662	0.03%	0.002%
121	7.774	7.770	7.787	PV	108	590	0.02%	0.002%
122	7.799	7.787	7.817	VV	152	1470	0.06%	0.005%
123	7.840	7.817	7.888	VV	132	3683	0.15%	0.013%
124	7.898	7.888	7.929	PV	117	1734	0.07%	0.006%
125	7.969	7.929	8.047	VV	672	14398	0.57%	0.050%
126	8.101	8.047	8.127	VV	453	11556	0.46%	0.040%
127	8.140	8.127	8.190	VV	793	13715	0.55%	0.048%
128	8.209	8.190	8.229	VV	221	3355	0.13%	0.012%
129	8.253	8.229	8.285	VV	458	7208	0.29%	0.025%
130	8.311	8.285	8.357	VV	596	11479	0.46%	0.040%
131	8.385	8.357	8.415	VV	242	5720	0.23%	0.020%
132	8.422	8.415	8.435	VV	150	1549	0.06%	0.005%
133	8.469	8.435	8.494	VV	387	9642	0.38%	0.034%
134	8.510	8.494	8.525	VV	290	4387	0.17%	0.015%
135	8.560	8.525	8.682	VV	198224	2215734	88.10%	7.756%
136	8.701	8.682	8.733	VV	666	16880	0.67%	0.059%
137	8.743	8.733	8.779	VV	518	10386	0.41%	0.036%
138	8.802	8.779	8.870	VV	368	15600	0.62%	0.055%
139	8.891	8.870	8.908	VV	847	12930	0.51%	0.045%
140	8.928	8.908	8.962	VV	1022	18582	0.74%	0.065%
141	8.998	8.962	9.030	VV	471	12523	0.50%	0.044%

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142	9.059	9.030	9.088	VV	678	16323	0.65%	0.057%
143	9.098	9.088	9.149	VV	509	11434	0.45%	0.040%
144	9.155	9.149	9.195	VV	229	4021	0.16%	0.014%
145	9.250	9.195	9.277	VV	333	7936	0.32%	0.028%
146	9.319	9.277	9.369	PV	340	11278	0.45%	0.039%
147	9.391	9.369	9.422	VV	805	13524	0.54%	0.047%
148	9.432	9.422	9.457	VV	251	4051	0.16%	0.014%
149	9.464	9.457	9.494	VV	163	2380	0.09%	0.008%
150	9.503	9.494	9.534	VV	88	1423	0.06%	0.005%
151	9.575	9.534	9.615	VV	317	7266	0.29%	0.025%
152	9.634	9.615	9.662	VV	197	3537	0.14%	0.012%
153	9.668	9.662	9.708	VV	123	2344	0.09%	0.008%
154	9.718	9.708	9.735	VV	150	1222	0.05%	0.004%
155	9.759	9.735	9.790	PV	447	9708	0.39%	0.034%
156	9.806	9.790	9.838	VV	390	7391	0.29%	0.026%
157	9.857	9.838	9.884	VV	214	4166	0.17%	0.015%
158	9.903	9.884	9.930	VV	328	5429	0.22%	0.019%
159	9.947	9.930	9.974	VV	769	9843	0.39%	0.034%
160	10.006	9.974	10.026	VV	947	12188	0.48%	0.043%
161	10.036	10.026	10.052	VV	215	2570	0.10%	0.009%
162	10.075	10.052	10.139	VV	3117	95957	3.82%	0.336%
163	10.167	10.139	10.277	VV	204365	2365348	94.05%	8.279%
164	10.288	10.277	10.385	VV	733	28754	1.14%	0.101%
165	10.399	10.385	10.477	VV	391	13564	0.54%	0.047%
166	10.525	10.477	10.580	VV	1675	42198	1.68%	0.148%
167	10.592	10.580	10.639	VV	364	9407	0.37%	0.033%
168	10.651	10.639	10.673	VV	290	4468	0.18%	0.016%
169	10.692	10.673	10.711	VV	396	6295	0.25%	0.022%
170	10.728	10.711	10.762	VV	315	5160	0.21%	0.018%
171	10.806	10.762	10.817	VV	253	5723	0.23%	0.020%
172	10.837	10.817	10.862	VV	323	6677	0.27%	0.023%
173	10.909	10.862	10.946	VV	683	20020	0.80%	0.070%
174	11.039	11.007	11.067	VV	406	9763	0.39%	0.034%
175	11.098	11.092	11.124	VV	240	4400	0.17%	0.015%
176	11.129	11.124	11.140	VV	310	2661	0.11%	0.009%
177	11.155	11.140	11.177	VV	300	4963	0.20%	0.017%
178	11.201	11.177	11.270	VV	1732	43851	1.74%	0.153%
179	11.283	11.270	11.350	VV	615	18225	0.72%	0.064%
180	11.357	11.350	11.377	VV	264	3658	0.15%	0.013%
181	11.416	11.377	11.463	VV	768	16122	0.64%	0.056%
182	11.473	11.463	11.496	VV	217	2666	0.11%	0.009%
183	11.612	11.496	11.675	VV	207023	2476698	98.48%	8.669%
184	11.695	11.675	11.759	VV	1203	36834	1.46%	0.129%
185	11.776	11.759	11.795	VV	602	10418	0.41%	0.036%
186	11.807	11.795	11.839	VV	499	9151	0.36%	0.032%
187	11.854	11.839	11.869	VV	242	4134	0.16%	0.014%
188	11.901	11.869	11.957	VV	834	27229	1.08%	0.095%
189	11.966	11.957	11.985	VV	489	6655	0.26%	0.023%
190	12.039	11.985	12.082	VV	1523	40651	1.62%	0.142%
191	12.184	12.155	12.192	VV	308	6071	0.24%	0.021%
192	12.207	12.192	12.244	VV	341	9661	0.38%	0.034%
193	12.281	12.244	12.309	VV	796	20986	0.83%	0.073%
194	12.341	12.309	12.361	VV	725	17105	0.68%	0.060%

195	12.388	12.361	12.475	VV	3561	92445	3.68%	0.324%
196	12.488	12.475	12.512	VV	1047	18565	0.74%	0.065%
197	12.536	12.512	12.593	VV	50291	653438	25.98%	2.287%
198	12.608	12.593	12.629	VV	2256	38975	1.55%	0.136%
199	12.640	12.629	12.694	VV	1477	45749	1.82%	0.160%
200	12.699	12.694	12.721	VV	933	14435	0.57%	0.051%
201	12.747	12.721	12.828	VV	1183	41474	1.65%	0.145%
202	12.855	12.828	12.889	VV	852	21438	0.85%	0.075%
203	12.923	12.889	12.969	VV	210189	2515029	100.00%	8.803%
204	13.005	12.969	13.060	VV	2564	71553	2.85%	0.250%
205	13.073	13.060	13.084	VV	593	7702	0.31%	0.027%
206	13.091	13.084	13.119	VV	561	10854	0.43%	0.038%
207	13.134	13.119	13.163	VV	566	13217	0.53%	0.046%
208	13.173	13.163	13.207	VV	499	12163	0.48%	0.043%
209	13.228	13.207	13.237	VV	493	7551	0.30%	0.026%
210	13.255	13.237	13.272	VV	466	8869	0.35%	0.031%
211	13.332	13.272	13.409	VV	1937	70770	2.81%	0.248%
212	13.416	13.409	13.467	VV	659	18100	0.72%	0.063%
213	13.502	13.467	13.516	VV	535	13925	0.55%	0.049%
214	13.537	13.516	13.558	VV	731	14622	0.58%	0.051%
215	13.589	13.558	13.604	VV	1134	23828	0.95%	0.083%
216	13.617	13.604	13.689	VV	1672	58804	2.34%	0.206%
217	13.709	13.689	13.739	VV	1031	27298	1.09%	0.096%
218	13.919	13.895	13.929	VV	656	12164	0.48%	0.043%
219	13.965	13.929	14.031	VV	1019	38228	1.52%	0.134%
220	14.078	14.031	14.092	VV	5553	76763	3.05%	0.269%
221	14.123	14.092	14.212	VV	195451	2502824	99.51%	8.760%
222	14.249	14.212	14.315	VV	637	27190	1.08%	0.095%
223	14.357	14.315	14.428	VV	495	27179	1.08%	0.095%
224	14.443	14.428	14.466	VV	408	7302	0.29%	0.026%
225	14.623	14.615	14.669	VV	400	9271	0.37%	0.032%
226	14.767	14.750	14.782	VV	767	13262	0.53%	0.046%
227	14.789	14.782	14.826	VV	731	14390	0.57%	0.050%
228	14.844	14.826	14.877	VV	588	10749	0.43%	0.038%
229	14.925	14.904	14.985	VV	777	21017	0.84%	0.074%
230	15.023	14.985	15.107	VV	97777	1399775	55.66%	4.900%
231	15.121	15.107	15.162	VV	378	8026	0.32%	0.028%
232	15.227	15.162	15.264	VV	189612	2511281	99.85%	8.790%
233	15.274	15.264	15.332	VV	1236	22820	0.91%	0.080%
234	15.343	15.332	15.377	VV	247	5487	0.22%	0.019%
235	15.425	15.377	15.505	VV	644	18441	0.73%	0.065%
236	15.556	15.505	15.575	VV	326	7670	0.30%	0.027%
237	15.607	15.575	15.729	VV	26024	446441	17.75%	1.563%
238	15.748	15.729	15.790	VV	1030	25750	1.02%	0.090%
239	15.819	15.790	15.855	VV	1061	19986	0.79%	0.070%
240	15.883	15.855	15.954	VV	472	13331	0.53%	0.047%
241	15.976	15.954	15.983	PV	65	843	0.03%	0.003%
242	16.073	16.056	16.100	VV	309	5123	0.20%	0.018%
243	16.130	16.100	16.154	VV	792	14349	0.57%	0.050%
244	16.170	16.154	16.197	VV	494	9233	0.37%	0.032%
245	16.250	16.197	16.307	VV	181900	2451840	97.49%	8.582%
246	16.313	16.307	16.362	VV	484	10163	0.40%	0.036%

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247	16.386	16.362	16.412	VV	308	7631	0.30%	0.027%
248	16.449	16.412	16.502	VV	306	8678	0.35%	0.030%
249	16.507	16.502	16.520	VV	148	602	0.02%	0.002%
250	16.537	16.520	16.557	PV	79	1401	0.06%	0.005%
251	16.588	16.557	16.596	VV	128	2555	0.10%	0.009%
252	16.626	16.596	16.670	VV	2145	39299	1.56%	0.138%
253	16.699	16.670	16.710	VV	488	9945	0.40%	0.035%
254	16.887	16.845	16.915	VV	852	19883	0.79%	0.070%
255	16.932	16.915	16.965	VV	669	13089	0.52%	0.046%
256	16.972	16.965	16.986	VV	307	3234	0.13%	0.011%
257	17.009	16.986	17.037	VV	321	7590	0.30%	0.027%
258	17.095	17.037	17.134	VV	802	30310	1.21%	0.106%
259	17.201	17.134	17.230	VV	178877	2424055	96.38%	8.485%
260	17.250	17.230	17.370	VV	12605	198639	7.90%	0.695%

Sum of corrected areas: 28569537

FF030325.M Fri Mar 07 01:01:23 2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-SO-COMP-022825MSD	SDG No.:	Q1478
Lab Sample ID:	Q1478-14MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84.4 Decanted:
Sample Wt/Vol:	30.07 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
FF015623.D	1	03/05/25 13:12	03/06/25 12:56	PB167017

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8210		218	1970	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.8		37 - 130	54%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015623.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 12:56
Operator : YP\AJ
Sample : Q1478-14MSD
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MSD

Integration File: autoint1.e
Quant Time: Mar 07 00:36:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.022	1287955	10.802 ug/ml
	Target Compounds			
2)	N-DECANE	4.565	1814785	15.829 ug/ml
3)	N-DODECANE	6.732	1956704	16.410 ug/ml
4)	N-TETRADECANE	8.560	2049208	17.389 ug/ml
5)	N-HEXADECANE	10.167	2181328	18.062 ug/ml
6)	N-OCTADECANE	11.612	2295359	17.969 ug/ml
7)	N-EICOSANE	12.922	2331282	18.112 ug/ml
8)	N-DOCOSANE	14.122	2315243	17.881 ug/ml
10)	N-TETRACOSANE	15.226	2317106	17.647 ug/ml
11)	N-HEXACOSANE	16.249	2271605	17.605 ug/ml
12)	N-OCTACOSANE	17.200	2239459	17.491 ug/ml

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

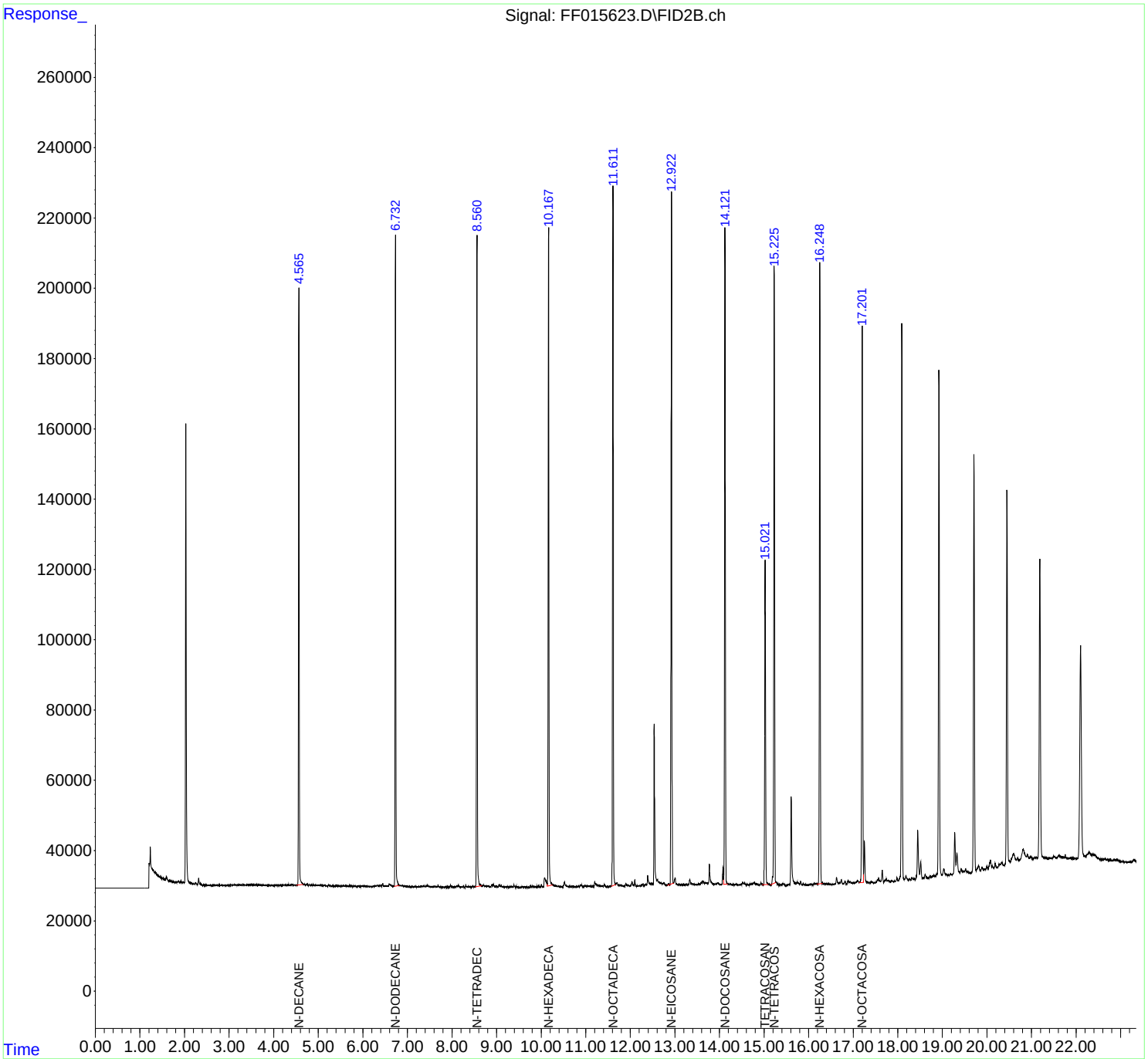
Quantitation Report (QT Reviewed)

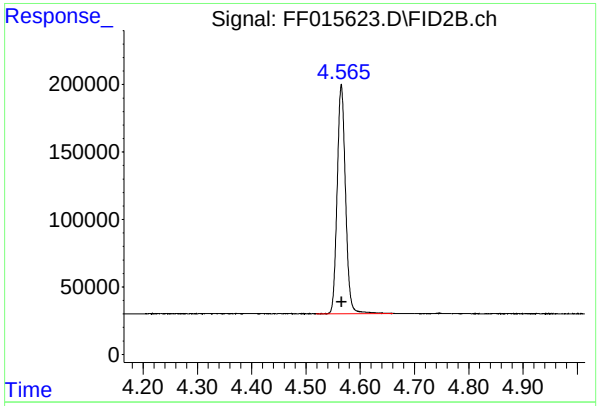
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015623.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 12:56
Operator : YP\AJ
Sample : Q1478-14MSD
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MSD

Integration File: autoint1.e
Quant Time: Mar 07 00:36:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

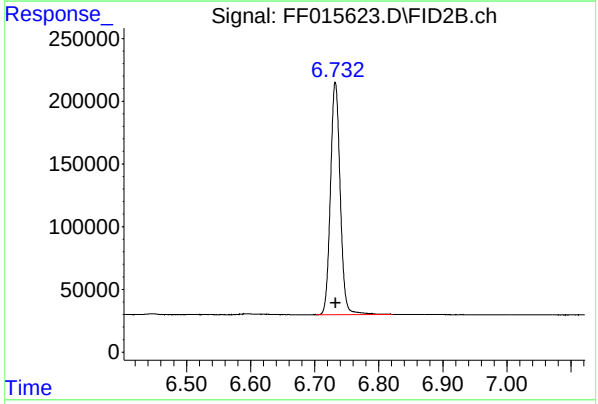




#2 N-DECANE

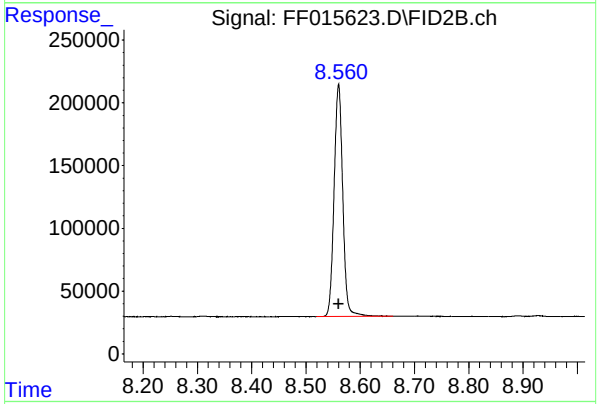
R.T.: 4.565 min
Delta R.T.: 0.000 min
Response: 1814785
Conc: 15.83 ug/ml

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MSD



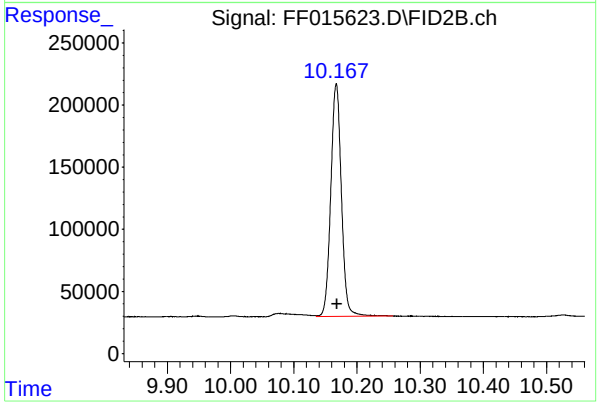
#3 N-DODECANE

R.T.: 6.732 min
Delta R.T.: 0.000 min
Response: 1956704
Conc: 16.41 ug/ml



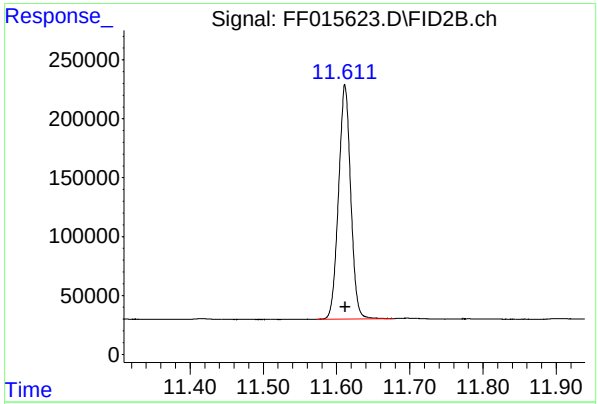
#4 N-TETRADECANE

R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 2049208
Conc: 17.39 ug/ml



#5 N-HEXADECANE

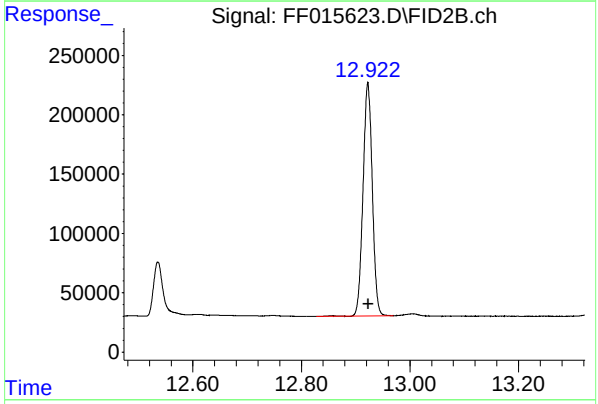
R.T.: 10.167 min
Delta R.T.: 0.000 min
Response: 2181328
Conc: 18.06 ug/ml



#6 N-OCTADECANE

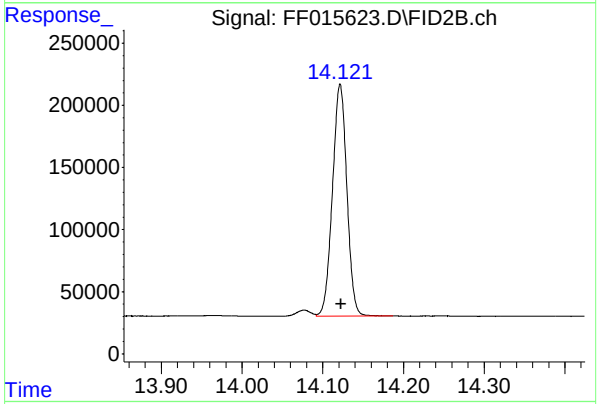
R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 2295359
Conc: 17.97 ug/ml

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MSD



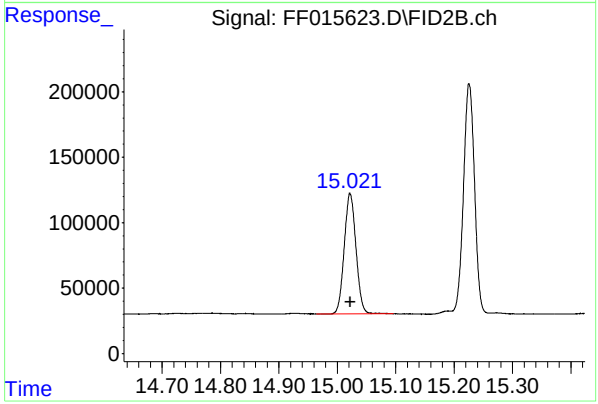
#7 N-EICOSANE

R.T.: 12.922 min
Delta R.T.: 0.000 min
Response: 2331282
Conc: 18.11 ug/ml



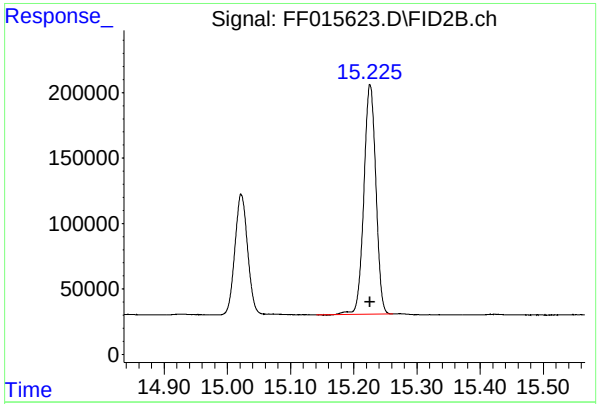
#8 N-DOCOSANE

R.T.: 14.122 min
Delta R.T.: -0.001 min
Response: 2315243
Conc: 17.88 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

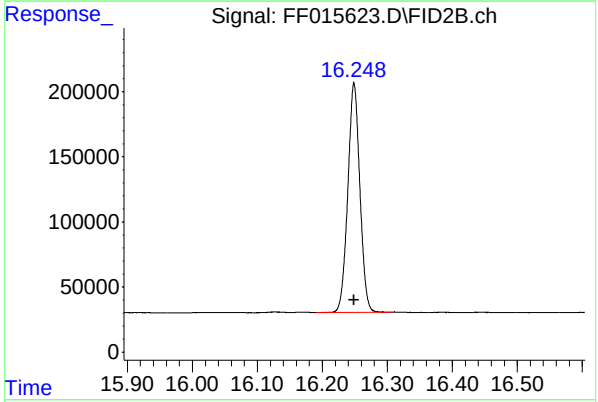
R.T.: 15.022 min
Delta R.T.: 0.000 min
Response: 1287955
Conc: 10.80 ug/ml



#10 N-TETRACOSANE

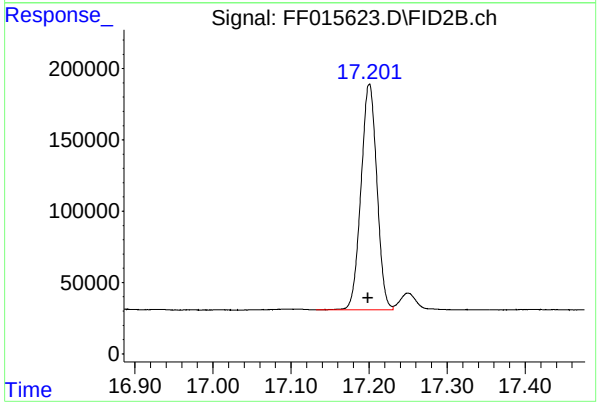
R.T.: 15.226 min
Delta R.T.: 0.000 min
Response: 2317106
Conc: 17.65 ug/ml

Instrument :
FID_F
ClientSampleId :
IDW-SO-COMP-022825MSD



#11 N-HEXACOSANE

R.T.: 16.249 min
Delta R.T.: 0.000 min
Response: 2271605
Conc: 17.61 ug/ml



#12 N-OCTACOSANE

R.T.: 17.200 min
Delta R.T.: 0.002 min
Response: 2239459
Conc: 17.49 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF030625\
Data File : FF015623.D
Signal(s) : FID2B.ch
Acq On : 06 Mar 2025 12:56
Sample : Q1478-14MSD
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.443	4.437	4.447	PV	64	311	0.01%	0.001%
2	4.451	4.447	4.457	PV	80	468	0.02%	0.002%
3	4.472	4.457	4.484	VV	124	1159	0.05%	0.004%
4	4.489	4.484	4.516	PV	119	1296	0.05%	0.005%
5	4.520	4.516	4.531	VV	154	646	0.03%	0.002%
6	4.565	4.531	4.674	VV	169813	1833374	77.48%	6.722%
7	4.681	4.674	4.705	VV	333	4633	0.20%	0.017%
8	4.707	4.705	4.718	VV	231	1359	0.06%	0.005%
9	4.723	4.718	4.729	VV	184	1111	0.05%	0.004%
10	4.747	4.729	4.773	VV	413	7457	0.32%	0.027%
11	4.776	4.773	4.790	VV	261	2092	0.09%	0.008%
12	4.794	4.790	4.812	VV	290	2505	0.11%	0.009%
13	4.816	4.812	4.828	VV	178	1471	0.06%	0.005%
14	4.852	4.828	4.862	VV	298	3732	0.16%	0.014%
15	4.882	4.862	4.885	VV	263	2867	0.12%	0.011%
16	4.892	4.885	4.898	VV	289	1570	0.07%	0.006%
17	4.900	4.898	4.915	VV	226	1898	0.08%	0.007%
18	4.927	4.915	4.933	VV	253	2173	0.09%	0.008%
19	4.938	4.933	4.958	VV	294	2922	0.12%	0.011%
20	4.962	4.958	4.966	VV	163	818	0.03%	0.003%
21	4.977	4.966	5.023	VV	215	5966	0.25%	0.022%
22	5.031	5.023	5.044	VV	259	2464	0.10%	0.009%
23	5.047	5.044	5.075	VV	246	3284	0.14%	0.012%
24	5.079	5.075	5.093	VV	201	1584	0.07%	0.006%
25	5.108	5.093	5.121	VV	194	2586	0.11%	0.009%
26	5.125	5.121	5.128	VV	120	570	0.02%	0.002%
27	5.137	5.128	5.142	VV	177	1042	0.04%	0.004%
28	5.147	5.142	5.155	VV	105	772	0.03%	0.003%
29	5.157	5.155	5.175	VV	169	1122	0.05%	0.004%
30	5.182	5.175	5.192	VV	137	1000	0.04%	0.004%
31	5.193	5.192	5.203	VV	161	649	0.03%	0.002%
32	5.209	5.203	5.217	VV	115	755	0.03%	0.003%
33	5.231	5.217	5.283	VV	376	6314	0.27%	0.023%
34	5.289	5.283	5.302	VV	132	894	0.04%	0.003%
35	5.312	5.302	5.325	VV	169	1003	0.04%	0.004%
36	5.333	5.325	5.349	VV	96	896	0.04%	0.003%

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37	5.367	5.349	5.382	VV	147	1530	0.06%	0.006%
38	5.388	5.382	5.395	VV	133	594	0.03%	0.002%
39	5.411	5.395	5.427	VV	164	1919	0.08%	0.007%
40	5.433	5.427	5.438	VV	139	549	0.02%	0.002%
41	5.454	5.438	5.481	VV	163	2163	0.09%	0.008%
42	5.485	5.481	5.490	VV	97	359	0.02%	0.001%
43	5.503	5.490	5.520	VV	152	1597	0.07%	0.006%
44	5.525	5.520	5.530	VV	139	606	0.03%	0.002%
45	5.553	5.530	5.613	VV	297	8744	0.37%	0.032%
46	5.618	5.613	5.623	VV	186	778	0.03%	0.003%
47	5.628	5.623	5.633	VV	150	570	0.02%	0.002%
48	5.640	5.633	5.657	VV	195	1787	0.08%	0.007%
49	5.662	5.657	5.682	VV	138	1431	0.06%	0.005%
50	5.710	5.682	5.743	VV	328	6198	0.26%	0.023%
51	5.746	5.743	5.776	VV	172	2157	0.09%	0.008%
52	5.793	5.776	5.805	PV	169	2147	0.09%	0.008%
53	5.808	5.805	5.815	VV	153	916	0.04%	0.003%
54	5.835	5.815	5.841	VV	204	2038	0.09%	0.007%
55	5.844	5.841	5.850	VV	166	683	0.03%	0.003%
56	5.856	5.850	5.860	VV	126	610	0.03%	0.002%
57	5.865	5.860	5.871	VV	137	739	0.03%	0.003%
58	5.873	5.871	5.882	VV	160	950	0.04%	0.003%
59	5.887	5.882	5.905	VV	206	1732	0.07%	0.006%
60	5.912	5.905	5.927	VV	175	1732	0.07%	0.006%
61	5.932	5.927	5.938	VV	146	712	0.03%	0.003%
62	5.978	5.938	6.008	VV	288	7446	0.31%	0.027%
63	6.021	6.008	6.037	VV	229	2957	0.12%	0.011%
64	6.044	6.037	6.060	VV	233	2476	0.10%	0.009%
65	6.066	6.060	6.071	VV	168	968	0.04%	0.004%
66	6.076	6.071	6.080	VV	182	713	0.03%	0.003%
67	6.095	6.080	6.101	VV	198	2137	0.09%	0.008%
68	6.103	6.101	6.110	VV	141	723	0.03%	0.003%
69	6.113	6.110	6.120	VV	152	692	0.03%	0.003%
70	6.124	6.120	6.161	VV	125	2513	0.11%	0.009%
71	6.177	6.161	6.183	VV	178	1696	0.07%	0.006%
72	6.185	6.183	6.202	VV	174	1200	0.05%	0.004%
73	6.205	6.202	6.210	VV	155	441	0.02%	0.002%
74	6.237	6.210	6.261	VV	292	5925	0.25%	0.022%
75	6.278	6.261	6.295	VV	392	5975	0.25%	0.022%
76	6.315	6.295	6.350	VV	406	10917	0.46%	0.040%
77	6.355	6.350	6.371	VV	402	4496	0.19%	0.016%
78	6.382	6.371	6.402	VV	455	6802	0.29%	0.025%
79	6.409	6.402	6.421	VV	382	3698	0.16%	0.014%
80	6.447	6.421	6.480	VV	974	18107	0.77%	0.066%
81	6.484	6.480	6.490	VV	341	1738	0.07%	0.006%
82	6.508	6.490	6.523	VV	397	6060	0.26%	0.022%
83	6.529	6.523	6.534	VV	338	2035	0.09%	0.007%
84	6.538	6.534	6.551	VV	335	2963	0.13%	0.011%
85	6.593	6.551	6.617	VV	954	20802	0.88%	0.076%
86	6.620	6.617	6.692	VV	588	15240	0.64%	0.056%
87	6.699	6.692	6.703	VV	284	1422	0.06%	0.005%
88	6.732	6.703	6.844	VV	185259	1989340	84.07%	7.294%
89	6.851	6.844	6.861	VV	460	4151	0.18%	0.015%

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90	6.865	6.861	6.876	VV	512	3810	0.16%	0.014%
91	6.889	6.876	6.918	VV	492	9517	0.40%	0.035%
92	6.928	6.918	6.959	VV	342	5917	0.25%	0.022%
93	6.962	6.959	6.971	VV	242	1257	0.05%	0.005%
94	6.976	6.971	7.009	VV	260	4105	0.17%	0.015%
95	7.032	7.009	7.048	VV	260	4283	0.18%	0.016%
96	7.055	7.048	7.063	VV	226	1454	0.06%	0.005%
97	7.068	7.063	7.095	VV	213	2599	0.11%	0.010%
98	7.101	7.095	7.112	VV	207	1406	0.06%	0.005%
99	7.115	7.112	7.127	VV	153	1234	0.05%	0.005%
100	7.131	7.127	7.144	VV	138	994	0.04%	0.004%
101	7.175	7.144	7.188	PV	163	2407	0.10%	0.009%
102	7.196	7.188	7.202	VV	155	620	0.03%	0.002%
103	7.233	7.202	7.240	VV	174	2845	0.12%	0.010%
104	7.247	7.240	7.255	VV	196	1205	0.05%	0.004%
105	7.262	7.255	7.277	VV	234	2146	0.09%	0.008%
106	7.307	7.277	7.323	VV	339	7456	0.32%	0.027%
107	7.326	7.323	7.352	VV	351	5123	0.22%	0.019%
108	7.358	7.352	7.367	VV	309	2418	0.10%	0.009%
109	7.373	7.367	7.387	VV	584	3660	0.15%	0.013%
110	7.393	7.387	7.405	VV	275	2585	0.11%	0.009%
111	7.422	7.405	7.428	VV	419	4978	0.21%	0.018%
112	7.452	7.428	7.497	VV	537	15021	0.63%	0.055%
113	7.501	7.497	7.512	VV	237	1753	0.07%	0.006%
114	7.517	7.512	7.561	VV	225	4546	0.19%	0.017%
115	7.586	7.561	7.592	VV	248	3275	0.14%	0.012%
116	7.605	7.592	7.617	VV	412	2920	0.12%	0.011%
117	7.631	7.617	7.659	VV	281	5126	0.22%	0.019%
118	7.686	7.659	7.722	VV	783	9238	0.39%	0.034%
119	7.723	7.722	7.729	VV	185	513	0.02%	0.002%
120	7.733	7.729	7.738	VV	121	401	0.02%	0.001%
121	7.745	7.738	7.761	VV	98	1099	0.05%	0.004%
122	7.769	7.761	7.778	VV	192	1220	0.05%	0.004%
123	7.786	7.778	7.795	VV	172	1191	0.05%	0.004%
124	7.807	7.795	7.833	VV	164	2431	0.10%	0.009%
125	7.837	7.833	7.848	VV	151	978	0.04%	0.004%
126	7.855	7.848	7.862	VV	139	870	0.04%	0.003%
127	7.872	7.862	7.892	VV	111	1674	0.07%	0.006%
128	7.896	7.892	7.902	PV	112	525	0.02%	0.002%
129	7.904	7.902	7.908	VV	155	382	0.02%	0.001%
130	7.915	7.908	7.919	VV	128	586	0.02%	0.002%
131	7.923	7.919	7.935	VV	143	866	0.04%	0.003%
132	7.968	7.935	8.009	VV	625	11508	0.49%	0.042%
133	8.013	8.009	8.027	VV	165	1131	0.05%	0.004%
134	8.030	8.027	8.050	VV	141	1265	0.05%	0.005%
135	8.066	8.050	8.070	VV	141	1141	0.05%	0.004%
136	8.074	8.070	8.079	VV	149	631	0.03%	0.002%
137	8.103	8.079	8.121	VV	445	7996	0.34%	0.029%
138	8.140	8.121	8.185	VV	807	13582	0.57%	0.050%
139	8.189	8.185	8.200	VV	182	1121	0.05%	0.004%
140	8.206	8.200	8.229	VV	221	2813	0.12%	0.010%
141	8.252	8.229	8.273	VV	452	6172	0.26%	0.023%

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142	8.277	8.273	8.282	VV	108	332	0.01%	0.001%
143	8.286	8.282	8.289	VV	88	268	0.01%	0.001%
144	8.311	8.289	8.340	VV	604	8659	0.37%	0.032%
145	8.344	8.340	8.358	VV	203	1494	0.06%	0.005%
146	8.372	8.358	8.381	VV	229	2233	0.09%	0.008%
147	8.387	8.381	8.413	VV	207	2881	0.12%	0.011%
148	8.417	8.413	8.432	VV	209	1317	0.06%	0.005%
149	8.436	8.432	8.446	VV	189	956	0.04%	0.004%
150	8.476	8.446	8.501	VV	392	9039	0.38%	0.033%
151	8.504	8.501	8.518	VV	236	2225	0.09%	0.008%
152	8.560	8.518	8.667	VV	185310	2081226	87.95%	7.631%
153	8.706	8.667	8.732	VV	685	22205	0.94%	0.081%
154	8.737	8.732	8.787	VV	459	12724	0.54%	0.047%
155	8.806	8.787	8.865	VV	435	13864	0.59%	0.051%
156	8.889	8.865	8.911	VV	858	14298	0.60%	0.052%
157	8.928	8.911	8.964	VV	1039	18160	0.77%	0.067%
158	8.969	8.964	8.976	VV	281	1728	0.07%	0.006%
159	8.999	8.976	9.020	VV	440	8238	0.35%	0.030%
160	9.024	9.020	9.037	VV	224	2168	0.09%	0.008%
161	9.052	9.037	9.068	VV	695	8996	0.38%	0.033%
162	9.070	9.068	9.086	VV	673	5645	0.24%	0.021%
163	9.100	9.086	9.123	VV	536	9027	0.38%	0.033%
164	9.128	9.123	9.133	VV	285	1527	0.06%	0.006%
165	9.137	9.133	9.169	VV	277	4245	0.18%	0.016%
166	9.172	9.169	9.179	VV	140	726	0.03%	0.003%
167	9.186	9.179	9.206	VV	208	2033	0.09%	0.007%
168	9.213	9.206	9.223	VV	210	1676	0.07%	0.006%
169	9.228	9.223	9.233	VV	172	872	0.04%	0.003%
170	9.246	9.233	9.274	VV	350	5057	0.21%	0.019%
171	9.281	9.274	9.287	VV	137	750	0.03%	0.003%
172	9.315	9.287	9.321	VV	324	4828	0.20%	0.018%
173	9.332	9.321	9.358	VV	300	5087	0.21%	0.019%
174	9.365	9.358	9.372	VV	204	1470	0.06%	0.005%
175	9.391	9.372	9.416	VV	832	11697	0.49%	0.043%
176	9.420	9.416	9.424	VV	205	1122	0.05%	0.004%
177	9.430	9.424	9.440	VV	362	2292	0.10%	0.008%
178	9.443	9.440	9.455	VV	441	1711	0.07%	0.006%
179	9.459	9.455	9.467	VV	145	1041	0.04%	0.004%
180	9.470	9.467	9.493	VV	209	1996	0.08%	0.007%
181	9.497	9.493	9.511	VV	120	842	0.04%	0.003%
182	9.516	9.511	9.523	VV	110	472	0.02%	0.002%
183	9.527	9.523	9.532	VV	135	467	0.02%	0.002%
184	9.539	9.532	9.549	VV	105	813	0.03%	0.003%
185	9.574	9.549	9.595	VV	419	6302	0.27%	0.023%
186	9.598	9.595	9.617	VV	200	1598	0.07%	0.006%
187	9.638	9.617	9.667	VV	221	3674	0.16%	0.013%
188	9.683	9.667	9.703	VV	149	2393	0.10%	0.009%
189	9.710	9.703	9.721	VV	102	825	0.03%	0.003%
190	9.725	9.721	9.736	VV	73	489	0.02%	0.002%
191	9.765	9.736	9.787	PV	512	8562	0.36%	0.031%
192	9.803	9.787	9.830	VV	393	7278	0.31%	0.027%
193	9.844	9.830	9.852	VV	260	2830	0.12%	0.010%
194	9.856	9.852	9.882	VV	256	3293	0.14%	0.012%

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195	9.906	9.882	9.924	VV	496	5866	0.25%	0.022%
196	9.948	9.924	9.978	VV	707	10509	0.44%	0.039%
197	10.007	9.978	10.031	VV	922	12206	0.52%	0.045%
198	10.042	10.031	10.055	VV	320	3147	0.13%	0.012%
199	10.077	10.055	10.136	VV	2800	87956	3.72%	0.322%
200	10.167	10.136	10.278	VV	187854	2230334	94.25%	8.178%
201	10.284	10.278	10.345	VV	709	20776	0.88%	0.076%
202	10.354	10.345	10.368	VV	427	4725	0.20%	0.017%
203	10.371	10.368	10.378	VV	300	1755	0.07%	0.006%
204	10.383	10.378	10.425	VV	402	8464	0.36%	0.031%
205	10.430	10.425	10.484	VV	302	6935	0.29%	0.025%
206	10.526	10.484	10.587	VV	1628	40485	1.71%	0.148%
207	10.602	10.587	10.617	VV	365	5057	0.21%	0.019%
208	10.636	10.617	10.674	VV	300	7364	0.31%	0.027%
209	10.693	10.674	10.715	VV	395	5793	0.24%	0.021%
210	10.721	10.715	10.724	VV	263	1028	0.04%	0.004%
211	10.732	10.724	10.749	VV	244	2960	0.13%	0.011%
212	10.753	10.749	10.758	VV	141	574	0.02%	0.002%
213	10.834	10.758	10.863	VV	293	11936	0.50%	0.044%
214	10.887	10.863	10.892	VV	584	7462	0.32%	0.027%
215	10.910	10.892	10.950	VV	677	12382	0.52%	0.045%
216	10.981	10.950	11.005	VV	450	9924	0.42%	0.036%
217	11.035	11.005	11.074	VV	418	11962	0.51%	0.044%
218	11.082	11.074	11.087	VV	295	1752	0.07%	0.006%
219	11.094	11.087	11.099	VV	269	1807	0.08%	0.007%
220	11.103	11.099	11.115	VV	294	2322	0.10%	0.009%
221	11.120	11.115	11.140	VV	332	4067	0.17%	0.015%
222	11.155	11.140	11.183	VV	316	5708	0.24%	0.021%
223	11.203	11.183	11.268	VV	1535	39286	1.66%	0.144%
224	11.284	11.268	11.320	VV	559	13615	0.58%	0.050%
225	11.325	11.320	11.346	VV	330	3975	0.17%	0.015%
226	11.351	11.346	11.364	VV	270	2613	0.11%	0.010%
227	11.367	11.364	11.384	VV	244	2559	0.11%	0.009%
228	11.416	11.384	11.461	VV	800	14502	0.61%	0.053%
229	11.469	11.461	11.497	VV	204	2236	0.09%	0.008%
230	11.513	11.497	11.522	VV	162	1479	0.06%	0.005%
231	11.559	11.522	11.571	VV	264	5739	0.24%	0.021%
232	11.612	11.571	11.678	VV	198340	2323859	98.21%	8.520%
233	11.697	11.678	11.749	VV	1147	31838	1.35%	0.117%
234	11.754	11.749	11.758	VV	357	1787	0.08%	0.007%
235	11.780	11.758	11.795	VV	593	10119	0.43%	0.037%
236	11.807	11.795	11.835	VV	509	8662	0.37%	0.032%
237	11.842	11.835	11.847	VV	281	1869	0.08%	0.007%
238	11.857	11.847	11.879	VV	304	3993	0.17%	0.015%
239	11.907	11.879	11.932	VV	733	16426	0.69%	0.060%
240	11.937	11.932	11.941	VV	482	2164	0.09%	0.008%
241	11.944	11.941	11.953	VV	416	2647	0.11%	0.010%
242	11.965	11.953	11.989	VV	404	6663	0.28%	0.024%
243	12.039	11.989	12.072	VV	1417	32877	1.39%	0.121%
244	12.077	12.072	12.082	VV	436	2353	0.10%	0.009%
245	12.102	12.082	12.144	VV	2004	29154	1.23%	0.107%
246	12.148	12.144	12.157	VV	210	1447	0.06%	0.005%

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247	12.170	12.157	12.177	VV	297	2830	0.12%	0.010%
248	12.186	12.177	12.191	VV	318	2249	0.10%	0.008%
249	12.210	12.191	12.226	VV	313	5982	0.25%	0.022%
250	12.234	12.226	12.240	VV	314	2329	0.10%	0.009%
251	12.280	12.240	12.315	VV	783	21603	0.91%	0.079%
252	12.345	12.315	12.366	VV	680	15494	0.65%	0.057%
253	12.389	12.366	12.435	VV	3117	62765	2.65%	0.230%
254	12.448	12.435	12.455	VV	910	10319	0.44%	0.038%
255	12.463	12.455	12.475	VV	877	9486	0.40%	0.035%
256	12.489	12.475	12.514	VV	1010	18315	0.77%	0.067%
257	12.536	12.514	12.590	VV	46291	600709	25.39%	2.202%
258	12.610	12.590	12.628	VV	2073	39785	1.68%	0.146%
259	12.640	12.628	12.730	VV	1460	64808	2.74%	0.238%
260	12.750	12.730	12.794	VV	1147	29172	1.23%	0.107%
261	12.802	12.794	12.829	VV	409	7310	0.31%	0.027%
262	12.856	12.829	12.889	VV	803	20826	0.88%	0.076%
263	12.922	12.889	12.971	VV	196810	2366310	100.00%	8.676%
264	13.004	12.971	13.038	VV	2475	59415	2.51%	0.218%
265	13.046	13.038	13.062	VV	670	8685	0.37%	0.032%
266	13.079	13.062	13.085	VV	569	6834	0.29%	0.025%
267	13.092	13.085	13.124	VV	562	11340	0.48%	0.042%
268	13.134	13.124	13.153	VV	550	8738	0.37%	0.032%
269	13.156	13.153	13.164	VV	494	3124	0.13%	0.011%
270	13.177	13.164	13.207	VV	530	12151	0.51%	0.045%
271	13.220	13.207	13.235	VV	484	6946	0.29%	0.025%
272	13.254	13.235	13.277	VV	530	11044	0.47%	0.040%
273	13.296	13.277	13.301	VV	472	6135	0.26%	0.022%
274	13.334	13.301	13.363	VV	1888	42807	1.81%	0.157%
275	13.371	13.363	13.405	VV	850	18754	0.79%	0.069%
276	13.420	13.405	13.458	VV	678	18065	0.76%	0.066%
277	13.467	13.458	13.482	VV	525	7012	0.30%	0.026%
278	13.485	13.482	13.492	VV	566	2961	0.13%	0.011%
279	13.498	13.492	13.519	VV	524	7755	0.33%	0.028%
280	13.536	13.519	13.556	VV	771	13747	0.58%	0.050%
281	13.591	13.556	13.605	VV	1100	23912	1.01%	0.088%
282	13.619	13.605	13.691	VV	1598	56399	2.38%	0.207%
283	13.708	13.691	13.741	VV	979	26159	1.11%	0.096%
284	13.771	13.741	13.892	VV	6301	140364	5.93%	0.515%
285	13.919	13.892	13.924	VV	720	11140	0.47%	0.041%
286	13.962	13.924	14.034	VV	961	42325	1.79%	0.155%
287	14.077	14.034	14.092	VV	5311	73204	3.09%	0.268%
288	14.122	14.092	14.216	VV	187508	2354799	99.51%	8.634%
289	14.230	14.216	14.235	VV	593	5893	0.25%	0.022%
290	14.250	14.235	14.295	VV	644	16228	0.69%	0.060%
291	14.331	14.295	14.339	VV	435	9422	0.40%	0.035%
292	14.343	14.339	14.356	VV	479	4700	0.20%	0.017%
293	14.361	14.356	14.438	VV	490	17956	0.76%	0.066%
294	14.456	14.438	14.463	VV	319	4211	0.18%	0.015%
295	14.486	14.463	14.500	VV	610	9377	0.40%	0.034%
296	14.520	14.500	14.547	VV	1075	22457	0.95%	0.082%
297	14.558	14.547	14.604	VV	782	17641	0.75%	0.065%
298	14.608	14.604	14.635	VV	354	5476	0.23%	0.020%
299	14.642	14.635	14.660	VV	331	4287	0.18%	0.016%

300	14.690	14.660	14.704	VV	563	9605	0.41%	0.035%
301	14.725	14.704	14.746	VV	725	14783	0.62%	0.054%
302	14.769	14.746	14.825	VV	832	30833	1.30%	0.113%
303	14.843	14.825	14.869	VV	621	11221	0.47%	0.041%
304	14.881	14.869	14.902	VV	317	5137	0.22%	0.019%
305	14.924	14.902	14.983	VV	797	22069	0.93%	0.081%
306	15.022	14.983	15.110	VV	92253	1315086	55.58%	4.822%
307	15.120	15.110	15.158	VV	350	6984	0.30%	0.026%
308	15.188	15.158	15.195	VV	2487	28142	1.19%	0.103%
309	15.226	15.195	15.262	VV	176500	2327430	98.36%	8.534%
310	15.273	15.262	15.297	VV	1111	16547	0.70%	0.061%
311	15.301	15.297	15.315	VV	383	3280	0.14%	0.012%
312	15.320	15.315	15.345	VV	393	4600	0.19%	0.017%
313	15.351	15.345	15.376	VV	279	3988	0.17%	0.015%
314	15.424	15.376	15.479	VV	651	16824	0.71%	0.062%
315	15.484	15.479	15.507	VV	130	1510	0.06%	0.006%
316	15.551	15.507	15.573	PV	368	6929	0.29%	0.025%
317	15.607	15.573	15.713	VV	25309	416285	17.59%	1.526%
318	15.717	15.713	15.727	VV	554	4582	0.19%	0.017%
319	15.746	15.727	15.787	VV	972	25578	1.08%	0.094%
320	15.821	15.787	15.860	VV	1024	20660	0.87%	0.076%
321	15.879	15.860	15.907	VV	444	8774	0.37%	0.032%
322	15.911	15.907	15.914	VV	206	843	0.04%	0.003%
323	15.918	15.914	15.945	VV	197	2791	0.12%	0.010%
324	15.953	15.945	15.994	VV	124	1589	0.07%	0.006%
325	16.028	15.994	16.056	PV	318	8491	0.36%	0.031%
326	16.067	16.056	16.084	VV	296	3744	0.16%	0.014%
327	16.089	16.084	16.094	VV	159	622	0.03%	0.002%
328	16.128	16.094	16.152	VV	708	12936	0.55%	0.047%
329	16.169	16.152	16.196	VV	529	8878	0.38%	0.033%
330	16.249	16.196	16.309	VV	176673	2293429	96.92%	8.409%
331	16.312	16.309	16.342	VV	622	7406	0.31%	0.027%
332	16.351	16.342	16.368	VV	303	3748	0.16%	0.014%
333	16.385	16.368	16.415	VV	379	6806	0.29%	0.025%
334	16.423	16.415	16.427	VV	209	1036	0.04%	0.004%
335	16.445	16.427	16.484	VV	341	7175	0.30%	0.026%
336	16.493	16.484	16.504	VV	137	1059	0.04%	0.004%
337	16.507	16.504	16.511	VV	131	400	0.02%	0.001%
338	16.514	16.511	16.519	VV	105	308	0.01%	0.001%
339	16.545	16.519	16.552	PV	135	1564	0.07%	0.006%
340	16.567	16.552	16.572	VV	171	1482	0.06%	0.005%
341	16.580	16.572	16.591	VV	176	1482	0.06%	0.005%
342	16.597	16.591	16.601	VV	194	860	0.04%	0.003%
343	16.626	16.601	16.662	VV	1928	35412	1.50%	0.130%
344	16.693	16.662	16.697	VV	503	8118	0.34%	0.030%
345	16.701	16.697	16.711	VV	501	3939	0.17%	0.014%
346	16.733	16.711	16.762	VV	1376	21044	0.89%	0.077%
347	16.816	16.762	16.842	VV	840	14466	0.61%	0.053%
348	16.884	16.842	16.909	VV	807	17259	0.73%	0.063%
349	16.932	16.909	16.957	VV	667	12926	0.55%	0.047%
350	16.974	16.957	16.984	VV	290	4096	0.17%	0.015%
351	16.989	16.984	16.994	VV	217	1198	0.05%	0.004%

					rteres			
352	17.011	16.994	17.037	VV	327	5561	0.23%	0.020%
353	17.056	17.037	17.060	VV	366	3711	0.16%	0.014%
354	17.094	17.060	17.104	VV	698	13834	0.58%	0.051%
355	17.109	17.104	17.133	VV	673	8053	0.34%	0.030%
356	17.200	17.133	17.231	VV	158286	2252258	95.18%	8.258%
357	17.250	17.231	17.336	VV	11816	182364	7.71%	0.669%
358	17.341	17.336	17.372	VV	183	2070	0.09%	0.008%
			Sum of corrected areas:			27273959		

FF030325.M Fri Mar 07 00:59:49 2025

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF030325

Review By	yogesh	Review On	3/3/2025 3:23:25 PM		
Supervise By	Ankita	Supervise On	3/4/2025 3:14:15 PM		
SubDirectory	FF030325	HP Acquire Method		HP Processing Method	FF030325

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015567.D	03 Mar 2025 10:50	YP\AJ	Ok
2	I.BLK	FF015568.D	03 Mar 2025 11:48	YP\AJ	Ok
3	100 TRPH STD	FF015569.D	03 Mar 2025 12:17	YP\AJ	Ok
4	50 TRPH STD	FF015570.D	03 Mar 2025 12:46	YP\AJ	Ok
5	20 TRPH STD	FF015571.D	03 Mar 2025 13:16	YP\AJ	Ok
6	10 TRPH STD	FF015572.D	03 Mar 2025 13:45	YP\AJ	Ok
7	5 TRPH STD	FF015573.D	03 Mar 2025 14:14	YP\AJ	Ok
8	FF030325ICV	FF015574.D	03 Mar 2025 14:43	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF030625

Review By	yogesh	Review On	3/6/2025 10:52:52 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:36:33 AM		
SubDirectory	FF030625	HP Acquire Method		HP Processing Method	FF030325

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015615.D	06 Mar 2025 08:14	YP\AJ	Ok
2	I.BLK	FF015616.D	06 Mar 2025 08:44	YP\AJ	Ok
3	50 PPM TRPH STD	FF015617.D	06 Mar 2025 09:45	YP\AJ	Ok
4	RT MARKER	FF015618.D	06 Mar 2025 10:14	YP\AJ	Ok
5	PB167017BL	FF015619.D	06 Mar 2025 10:58	YP\AJ	Ok
6	PB167017BS	FF015620.D	06 Mar 2025 11:28	YP\AJ	Ok
7	Q1478-14	FF015621.D	06 Mar 2025 11:57	YP\AJ	Ok
8	Q1478-14MS	FF015622.D	06 Mar 2025 12:27	YP\AJ	Ok
9	Q1478-14MSD	FF015623.D	06 Mar 2025 12:56	YP\AJ	Ok
10	I.BLK	FF015624.D	06 Mar 2025 13:25	YP\AJ	Ok
11	50 PPM TRPH STD	FF015625.D	06 Mar 2025 14:24	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG030325

Review By	yogesh	Review On	3/3/2025 3:23:50 PM		
Supervise By	Ankita	Supervise On	3/4/2025 3:14:29 PM		
SubDirectory	FG030325	HP Acquire Method		HP Processing Method	FG030325

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015424.D	03 Mar 2025 10:50	YP\AJ	Ok
2	I.BLK	FG015425.D	03 Mar 2025 11:19	YP\AJ	Ok
3	100 TRPH STD	FG015426.D	03 Mar 2025 11:48	YP\AJ	Ok
4	50 TRPH STD	FG015427.D	03 Mar 2025 12:17	YP\AJ	Ok
5	20 TRPH STD	FG015428.D	03 Mar 2025 12:46	YP\AJ	Ok
6	10 TRPH STD	FG015429.D	03 Mar 2025 13:16	YP\AJ	Ok
7	5 TRPH STD	FG015430.D	03 Mar 2025 13:45	YP\AJ	Ok
8	FG030325ICV	FG015431.D	03 Mar 2025 14:14	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG030625

Review By	yogesh	Review On	3/6/2025 11:01:10 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:36:19 AM		
SubDirectory	FG030625	HP Acquire Method		HP Processing Method	FG030325

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015445.D	06 Mar 2025 08:14	YP\AJ	Ok
2	I.BLK	FG015446.D	06 Mar 2025 08:44	YP\AJ	Ok
3	50 PPM TRPH STD	FG015447.D	06 Mar 2025 09:45	YP\AJ	Ok
4	RT MARKER	FG015448.D	06 Mar 2025 10:58	YP\AJ	Ok
5	PB167008BL	FG015449.D	06 Mar 2025 13:25	YP\AJ	Ok
6	PB167008BS	FG015450.D	06 Mar 2025 13:55	YP\AJ	Ok
7	PB167008BSD	FG015451.D	06 Mar 2025 14:24	YP\AJ	Ok
8	Q1478-02	FG015452.D	06 Mar 2025 14:54	YP\AJ	Ok
9	Q1478-04	FG015453.D	06 Mar 2025 15:23	YP\AJ	Ok
10	Q1478-06	FG015454.D	06 Mar 2025 15:52	YP\AJ	Ok
11	Q1478-08	FG015455.D	06 Mar 2025 16:22	YP\AJ	Ok
12	I.BLK	FG015456.D	06 Mar 2025 16:51	YP\AJ	Ok
13	50 PPM TRPH STD	FG015457.D	06 Mar 2025 17:50	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF030325

Review By	yogesh	Review On	3/3/2025 3:23:25 PM		
Supervise By	Ankita	Supervise On	3/4/2025 3:14:15 PM		
SubDirectory	FF030325	HP Acquire Method		HP Processing Method	FF030325

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		FF015567.D	03 Mar 2025 10:50		YP\AJ	Ok
2	I.BLK		FF015568.D	03 Mar 2025 11:48		YP\AJ	Ok
3	100 TRPH STD		FF015569.D	03 Mar 2025 12:17		YP\AJ	Ok
4	50 TRPH STD		FF015570.D	03 Mar 2025 12:46		YP\AJ	Ok
5	20 TRPH STD		FF015571.D	03 Mar 2025 13:16		YP\AJ	Ok
6	10 TRPH STD		FF015572.D	03 Mar 2025 13:45		YP\AJ	Ok
7	5 TRPH STD		FF015573.D	03 Mar 2025 14:14		YP\AJ	Ok
8	FF030325ICV		FF015574.D	03 Mar 2025 14:43		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF030625

Review By	yogesh	Review On	3/6/2025 10:52:52 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:36:33 AM		
SubDirectory	FF030625	HP Acquire Method		HP Processing Method	FF030325

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		FF015615.D	06 Mar 2025 08:14		YP\AJ	Ok
2	I.BLK		FF015616.D	06 Mar 2025 08:44		YP\AJ	Ok
3	50 PPM TRPH STD		FF015617.D	06 Mar 2025 09:45		YP\AJ	Ok
4	RT MARKER		FF015618.D	06 Mar 2025 10:14		YP\AJ	Ok
5	PB167017BL		FF015619.D	06 Mar 2025 10:58		YP\AJ	Ok
6	PB167017BS		FF015620.D	06 Mar 2025 11:28		YP\AJ	Ok
7	Q1478-14		FF015621.D	06 Mar 2025 11:57		YP\AJ	Ok
8	Q1478-14MS		FF015622.D	06 Mar 2025 12:27		YP\AJ	Ok
9	Q1478-14MSD		FF015623.D	06 Mar 2025 12:56		YP\AJ	Ok
10	I.BLK		FF015624.D	06 Mar 2025 13:25		YP\AJ	Ok
11	50 PPM TRPH STD		FF015625.D	06 Mar 2025 14:24		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG030325

Review By	yogesh	Review On	3/3/2025 3:23:50 PM		
Supervise By	Ankita	Supervise On	3/4/2025 3:14:29 PM		
SubDirectory	FG030325	HP Acquire Method		HP Processing Method	FG030325

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		FG015424.D	03 Mar 2025 10:50		YP\AJ	Ok
2	I.BLK		FG015425.D	03 Mar 2025 11:19		YP\AJ	Ok
3	100 TRPH STD		FG015426.D	03 Mar 2025 11:48		YP\AJ	Ok
4	50 TRPH STD		FG015427.D	03 Mar 2025 12:17		YP\AJ	Ok
5	20 TRPH STD		FG015428.D	03 Mar 2025 12:46		YP\AJ	Ok
6	10 TRPH STD		FG015429.D	03 Mar 2025 13:16		YP\AJ	Ok
7	5 TRPH STD		FG015430.D	03 Mar 2025 13:45		YP\AJ	Ok
8	FG030325ICV		FG015431.D	03 Mar 2025 14:14		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG030625

Review By	yogesh	Review On	3/6/2025 11:01:10 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:36:19 AM		
SubDirectory	FG030625	HP Acquire Method		HP Processing Method	FG030325

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		FG015445.D	06 Mar 2025 08:14		YP\AJ	Ok
2	I.BLK		FG015446.D	06 Mar 2025 08:44		YP\AJ	Ok
3	50 PPM TRPH STD		FG015447.D	06 Mar 2025 09:45		YP\AJ	Ok
4	RT MARKER		FG015448.D	06 Mar 2025 10:58		YP\AJ	Ok
5	PB167008BL		FG015449.D	06 Mar 2025 13:25		YP\AJ	Ok
6	PB167008BS		FG015450.D	06 Mar 2025 13:55		YP\AJ	Ok
7	PB167008BSD		FG015451.D	06 Mar 2025 14:24		YP\AJ	Ok
8	Q1478-02		FG015452.D	06 Mar 2025 14:54		YP\AJ	Ok
9	Q1478-04		FG015453.D	06 Mar 2025 15:23		YP\AJ	Ok
10	Q1478-06		FG015454.D	06 Mar 2025 15:52		YP\AJ	Ok
11	Q1478-08		FG015455.D	06 Mar 2025 16:22		YP\AJ	Ok
12	I.BLK		FG015456.D	06 Mar 2025 16:51		YP\AJ	Ok
13	50 PPM TRPH STD		FG015457.D	06 Mar 2025 17:50		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/4/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 03/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:05
Out Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134870

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
Q1472-01	40308	1	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1474-01	BU-03-02282025	2	1.15	8.63	9.78	9.2	93.3	
Q1474-02	BU-03-02282025	3	1.15	8.45	9.6	8.7	89.3	
Q1475-01	TR-04-02282025	4	1.12	8.67	9.79	9.06	91.6	
Q1475-02	TR-04-02282025-E2	5	1.16	8.72	9.88	9.44	95.0	
Q1476-02	TRE-25-0016	6	1.18	8.57	9.75	9.18	93.3	
Q1476-03	TRE-25-0017	7	1.00	1.00	2.00	2.00	100.0	debris
Q1478-14	IDW-SO-COMP-022825	8	1.15	8.82	9.97	8.59	84.4	
Q1478-15	IDW-SO-DRUM-585-022825	9	1.18	8.68	9.86	8.56	85.0	
Q1478-16	IDW-SO-DRUM-585-022825	10	1.18	8.45	9.63	8.23	83.4	
Q1479-01	P5	11	1.14	8.64	9.78	8.89	89.7	
Q1479-02	DSP2	12	1.15	8.75	9.9	9.1	90.9	

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

WORKLIST(Hardcopy Internal Chain)

LB134870

WorkList Name : %1-030325 **WorkList ID :** 187978 **Department :** Wet-Chemistry **Date :** 03-03-2025 07:39:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1472-01	40308	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/28/2025	Chemtech -SO
Q1474-01	BU-03-02282025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1474-02	BU-03-02282025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1475-01	TR-04-02282025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1475-02	TR-04-02282025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1476-02	TRE-25-0016	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/28/2025	Chemtech -SO
Q1476-03	TRE-25-0017	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/28/2025	Chemtech -SO
Q1478-14	IDW-SO-COMP-022825	Solid	Percent Solids	Cool 4 deg C	JACO05	H31	02/28/2025	Chemtech -SO
Q1478-15	IDW-SO-DRUM-585-022825	Solid	Percent Solids	Cool 4 deg C	JACO05	H31	02/28/2025	Chemtech -SO
Q1478-16	IDW-SO-DRUM-585-022825	Solid	Percent Solids	Cool 4 deg C	JACO05	H31	02/28/2025	Chemtech -SO
Q1479-01	P5	Solid	Percent Solids	Cool 4 deg C	GENV01	H31	03/03/2025	Chemtech -SO
Q1479-02	DSP2	Solid	Percent Solids	Cool 4 deg C	GENV01	H31	03/03/2025	Chemtech -SO

Date/Time 03/03/25 15:30
Raw Sample Received by: SO WC1
Raw Sample Relinquished by: CP SM

Date/Time 03/03/25 17:10
Raw Sample Received by: CP SM
Raw Sample Relinquished by: SO WC1

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167008

SOP ID: M3510C,3580A-Extraction DRO-12

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/06/2025

Extraction Start Time : 08:29

Extraction End Date : 03/06/2025

Extraction End Time : 13:15

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP24162
Spike Sol 1	1.0ML	20 PPM	PP24180
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
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/6/25	RS (Ext lab)	Y.P. Pest/PCB.
13:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

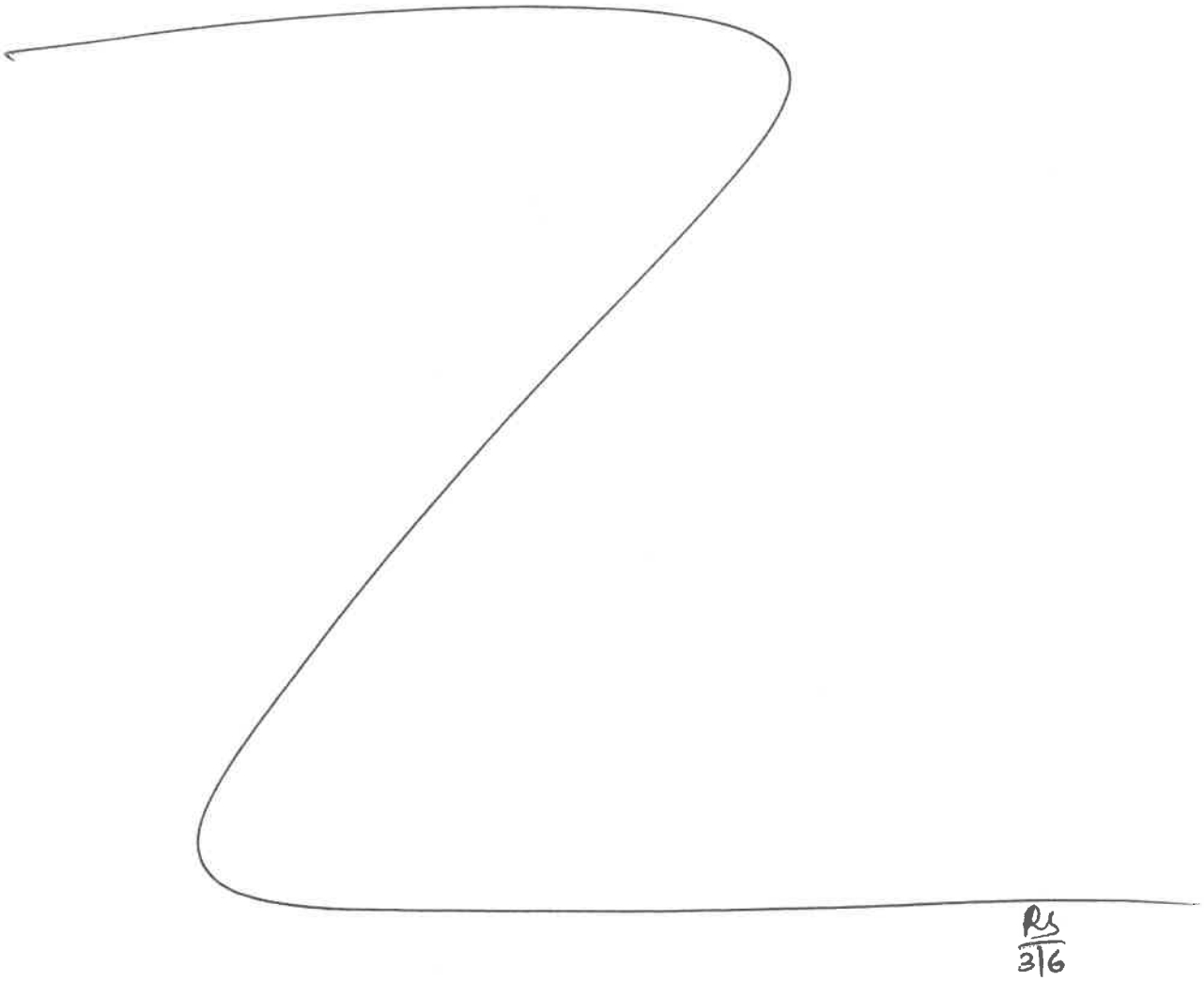
EXTRACTION LOGPAGE

PrepBatch ID : PB167008

Analytical Method: M3510C,3580A-Extraction DRO-12

Concentration Date: 03/06/2025

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167008BL	PB167008BL	Diesel Range Organics	1000	6	RUPESH	ritesh	1			SEP-10
PB167008BS	PB167008BS	Diesel Range Organics	1000	6	RUPESH	ritesh	1			11
PB167008BSD	PB167008BSD	Diesel Range Organics	1000	6	RUPESH	ritesh	1			12
Q1478-02	IDW-AQ-DRUM-610-022825	Diesel Range Organics	900	6	RUPESH	ritesh	1	E		13
Q1478-04	IDW-AQ-DRUM-616-022825	Diesel Range Organics	890	6	RUPESH	ritesh	1	E		14
Q1478-06	IDW-AQ-DRUM-614-022825	Diesel Range Organics	890	6	RUPESH	ritesh	1	E		15
Q1478-08	IDW-AQ-DRUM-612-022825	Diesel Range Organics	900	6	RUPESH	ritesh	1	E		16



RS 3/6

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

167008 8:29

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1478DRO **WorkList ID :** 188060 **Department :** Extraction **Date :** 03-06-2025 08:23:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-02	IDW-AQ-DRUM-610-022825	Water	Diesel Range Organics	Cool 4 deg C	JACO05	H31	02/28/2025	8015D
Q1478-04	IDW-AQ-DRUM-616-022825	Water	Diesel Range Organics	Cool 4 deg C	JACO05	H31	02/28/2025	8015D
Q1478-06	IDW-AQ-DRUM-614-022825	Water	Diesel Range Organics	Cool 4 deg C	JACO05	H31	02/28/2025	8015D
Q1478-08	IDW-AQ-DRUM-612-022825	Water	Diesel Range Organics	Cool 4 deg C	JACO05	H31	02/28/2025	8015D

Date/Time 3/6/25 8:25
Raw Sample Received by: RS (Ecl Labs)
Raw Sample Relinquished by: CP SM

Date/Time 3/6/25 9:10
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RS (Ecl Labs)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167017

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 03/05/2025

Extraction Start Time : 13:12

Extraction End Date : 03/05/2025

Extraction End Time : 16:10

Concentration By: EH

Supervisor By : RUPESH

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP24162
Surrogate	1.0ML	20 PPM	PP24180
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	EP2591
Baked Na2SO4	N/A	EP2590
Sand	N/A	E2865
Methylene Chloride	N/A	E3878
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (EXT Lab)	Yp. Pest/PCB
16:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167017

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167017BL	PB167017BL	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			U4-1
PB167017BS	PB167017BS	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1			2
Q1478-14	IDW-SO-COMP-022825	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1			3
Q1478-14MS	IDW-SO-COMP-022825MS	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1			4
Q1478-14MSD	IDW-SO-COMP-022825MSD	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1			5

RS
3/5

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

167017
13:12

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1478D **WorkList ID :** 188084 **Department :** Extraction **Date :** 03-05-2025 10:10:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-14	IDW-SO-COMP-022825	Solid	Diesel Range Organics	Cool 4 deg C	JACO05	H31	02/28/2025	8015D

Date/Time 3/5/25 13:06
Raw Sample Received by: RJ (EXT-lab)
Raw Sample Relinquished by: [signature]

Date/Time 3/5/25 13:25
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RJ (EXT-lab)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1478

Test : Diesel Range Organics

Prepbatch ID : PB167008,PB167017,

Sequence ID/Qc Batch ID: FF030625,FG030625,

Standard ID :
EP2590,EP2591,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,PP24162,PP24180,

Chemical ID :
E2865,E3551,E3828,E3874,E3876,E3878,P11955,P11956,P11958,P11959,P13213,P13218,P13219,P13487,P13488,P13489,P13490,

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Fax : 908 789 8922

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2590	02/26/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 02/26/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2591	02/26/2025	08/14/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 02/26/2025

FROM 8000.00000ml of E3876 + 8000.00000ml of E3878 = Final Quantity: 16000.000 ml

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

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

FROM 1.00000ml of P11958 + 1.00000ml of P11959 + 1.00000ml of P13213 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3796	100/100 PPM DRO STD (CPI)	PP23962	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP24162	01/31/2025	07/30/2025	Yogesh Patel	None	None	Ankita Jodhani 01/31/2025

FROM 1.00000ml of P11955 + 1.00000ml of P11956 + 48.00000ml of E3874 = Final Quantity: 50.000 ml

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
147	20 PPM DRO Surrogate Spike Solution	PP24180	02/03/2025	07/30/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 1.00000ml of P13487 + 1.00000ml of P13488 + 1.00000ml of P13489 + 1.00000ml of P13490 + 196.00000ml of E3874 = Final Quantity: 200.000 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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

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	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	07/31/2025	01/31/2025 / yogesh	07/11/2022 / Yogesh	P11955

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	07/31/2025	01/31/2025 / yogesh	07/11/2022 / Yogesh	P11956

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 #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/13/2025	11/13/2024 / yogesh	01/17/2024 / Ankita	P13213

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

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CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13487

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	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13488

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	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13489

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	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13490

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

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

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

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

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

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

Recd. by RB on 7/24/23 E3551

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

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

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

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

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

avantor | J.T.Baker

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)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

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

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

E 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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

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

Recd. by RP on 2/12/25

E 3876

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

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

avantor | J.T.Baker

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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

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

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

E 3878

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P11948 & P11962 } 7.8 07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

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

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

Expiration Date : July 31, 2029 **Storage:** 25°C nominal

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) **CAS #** 111-65-9 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

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

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

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

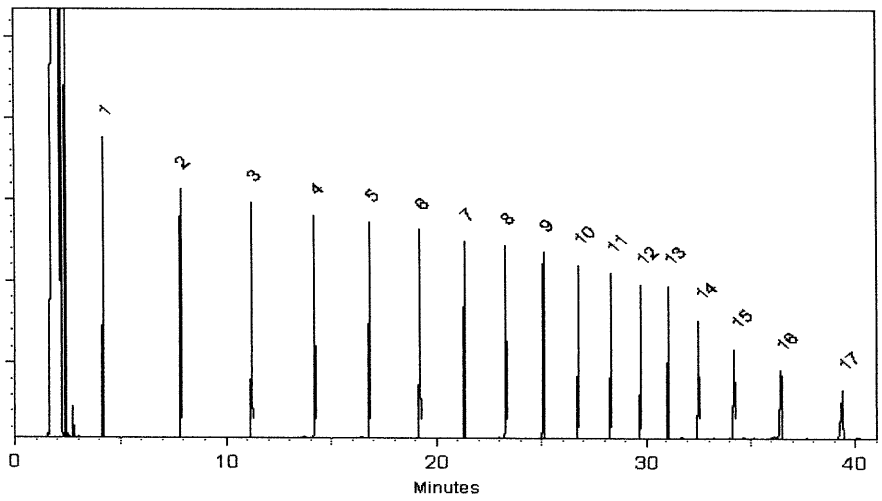
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brittany Federinko - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P11948 & P11962 } 7.8 07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

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

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

Expiration Date : July 31, 2029 **Storage:** 25°C nominal

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) **CAS #** 111-65-9 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

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

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

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

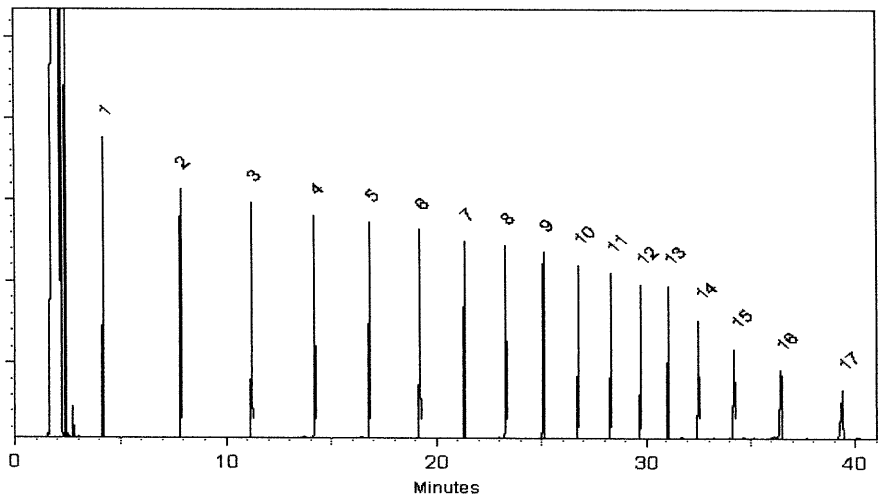
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brittany Federinko - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P11948 & P11962 } 7.8 07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

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

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

Expiration Date : July 31, 2029 **Storage:** 25°C nominal

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) **CAS #** 111-65-9 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

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

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

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

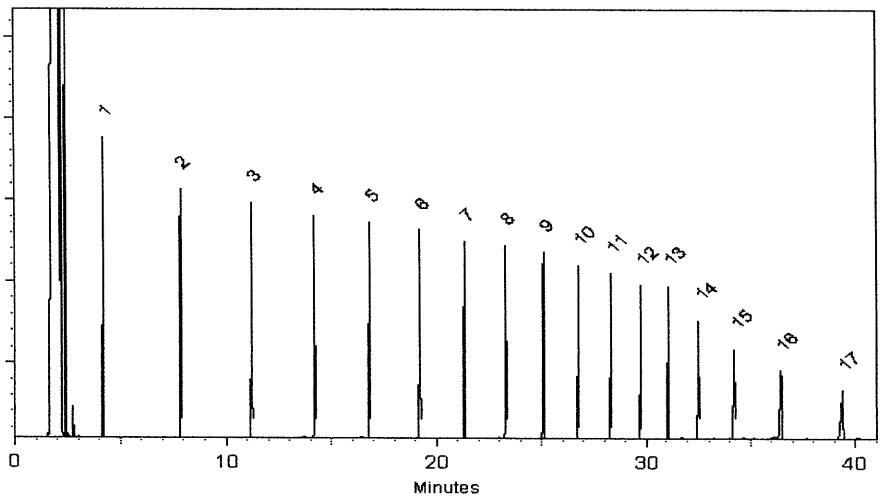
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brittany Federinko - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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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.

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P11948 & P11962 } 7.8 07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

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

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

Expiration Date : July 31, 2029 **Storage:** 25°C nominal

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) **CAS #** 111-65-9 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

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

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

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

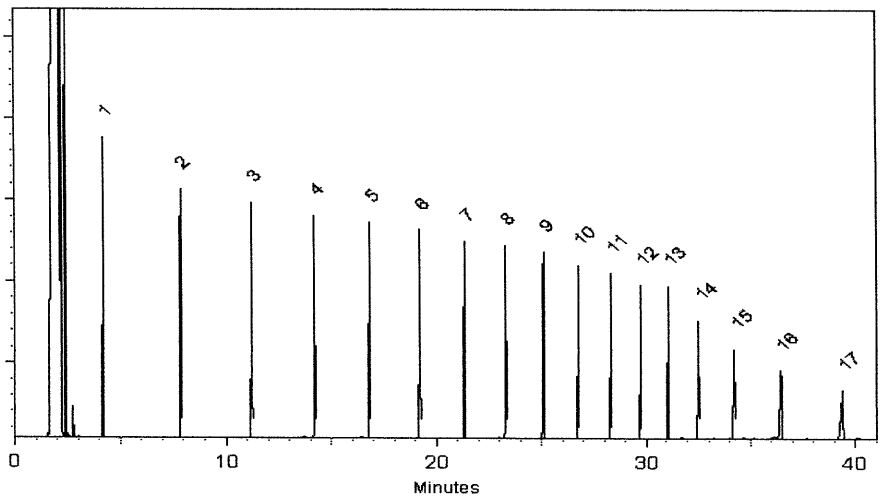
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brittany Federinko - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride **Lot#** 105345

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

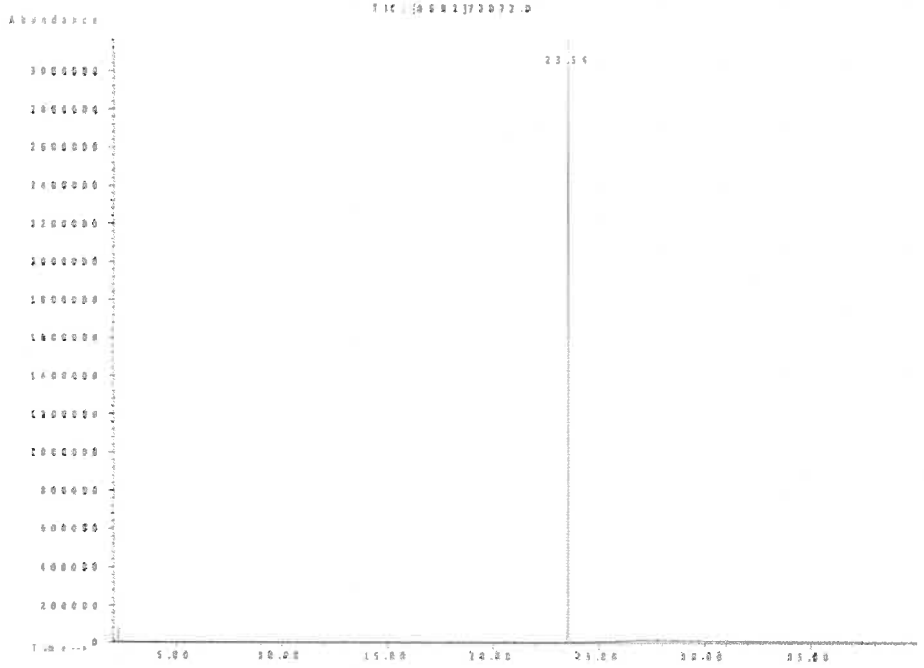
Weight(s) shown below were combined and diluted to (mL): 200.0

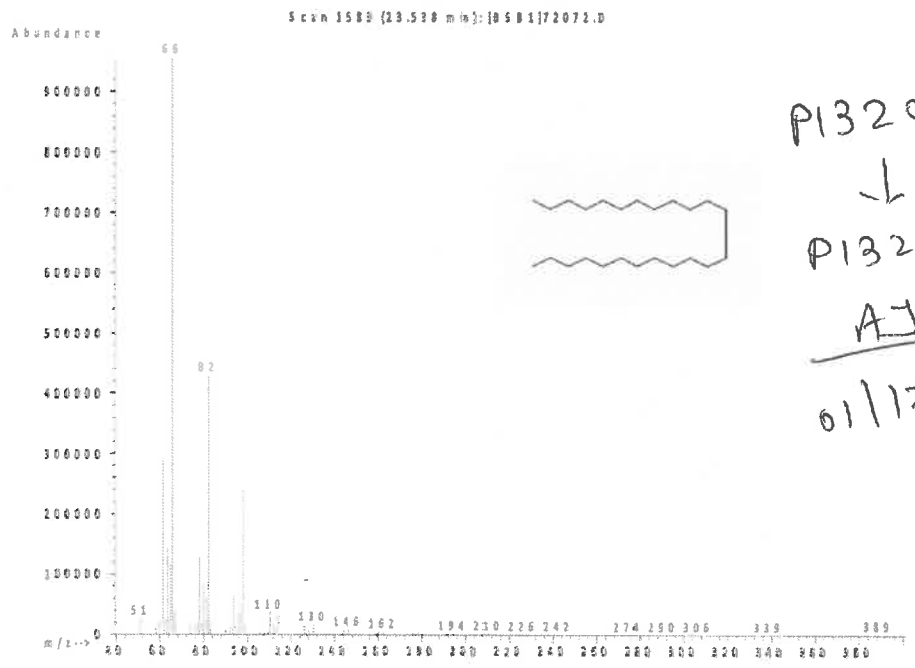
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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

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

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





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

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 ± 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 ± 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 ± 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 ± 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 ± 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 ± 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 ± 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 ± 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 ± 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 ± 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 ± 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 ± 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 ± 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 ± 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 ± 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 ± 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 ± 6.94

P 13215
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P 13224

AJ
01/31/24

*Not a certified value

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

Certified By: Andrea Schaible

Andrea Schaible
Chemist

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

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 ± 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 ± 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 ± 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 ± 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 ± 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 ± 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 ± 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 ± 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 ± 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 ± 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 ± 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 ± 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 ± 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 ± 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 ± 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 ± 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 ± 6.94

P 13215
↓
P 13224

AJ
01/31/24

*Not a certified value

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

Certified By: Andrea Schaible

Andrea Schaible
Chemist

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

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

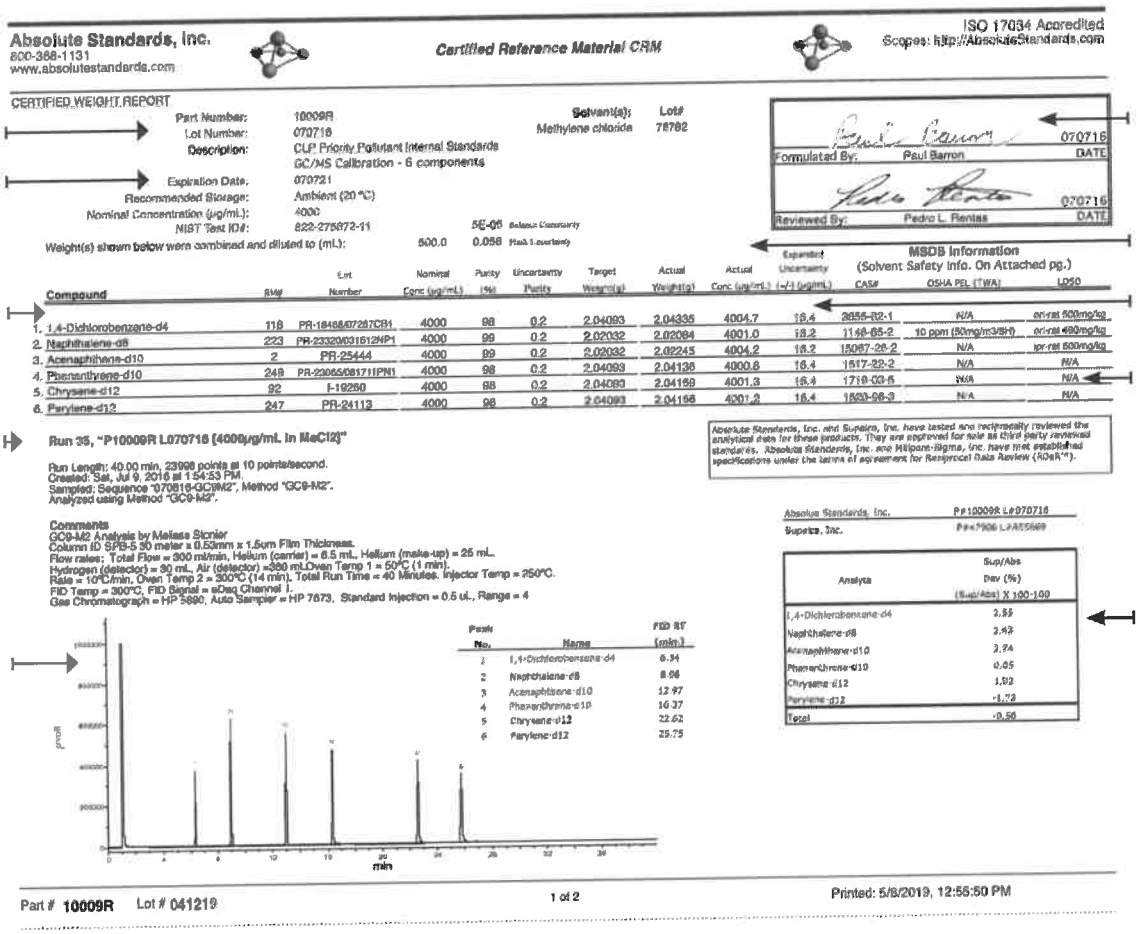
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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



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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot#: 78782

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

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

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

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

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

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

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

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

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

counts
min

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

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

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

Solvent(s):	Lot#
Methylene chloride	105345

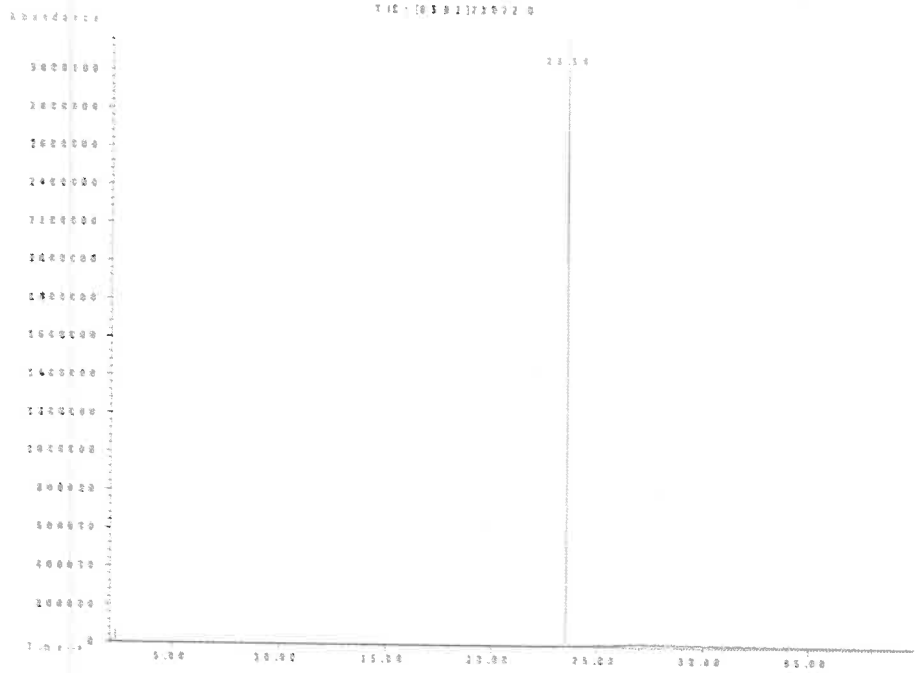
P13477 → P13496 } X.P. 07/24/24

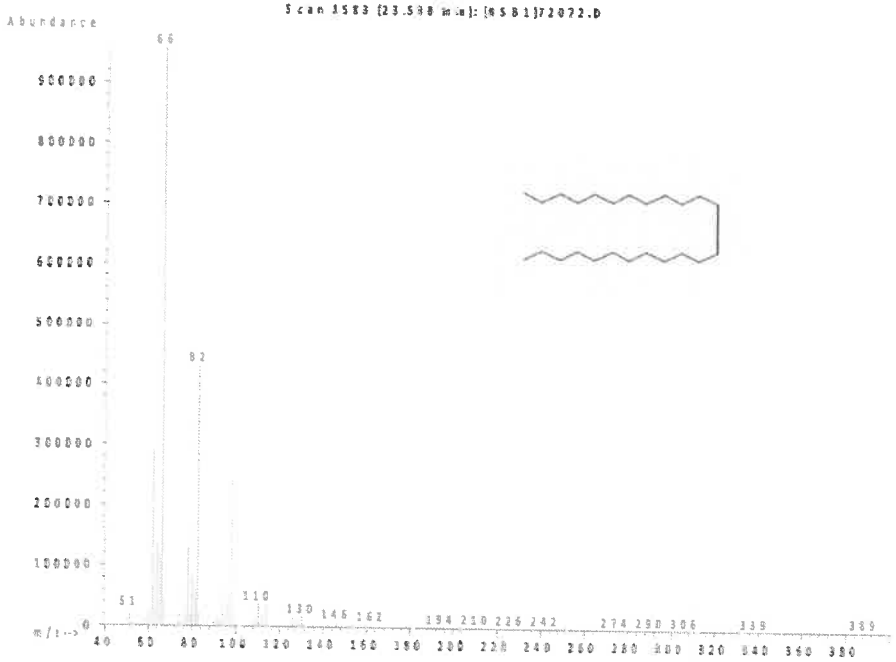
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

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

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

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





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

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

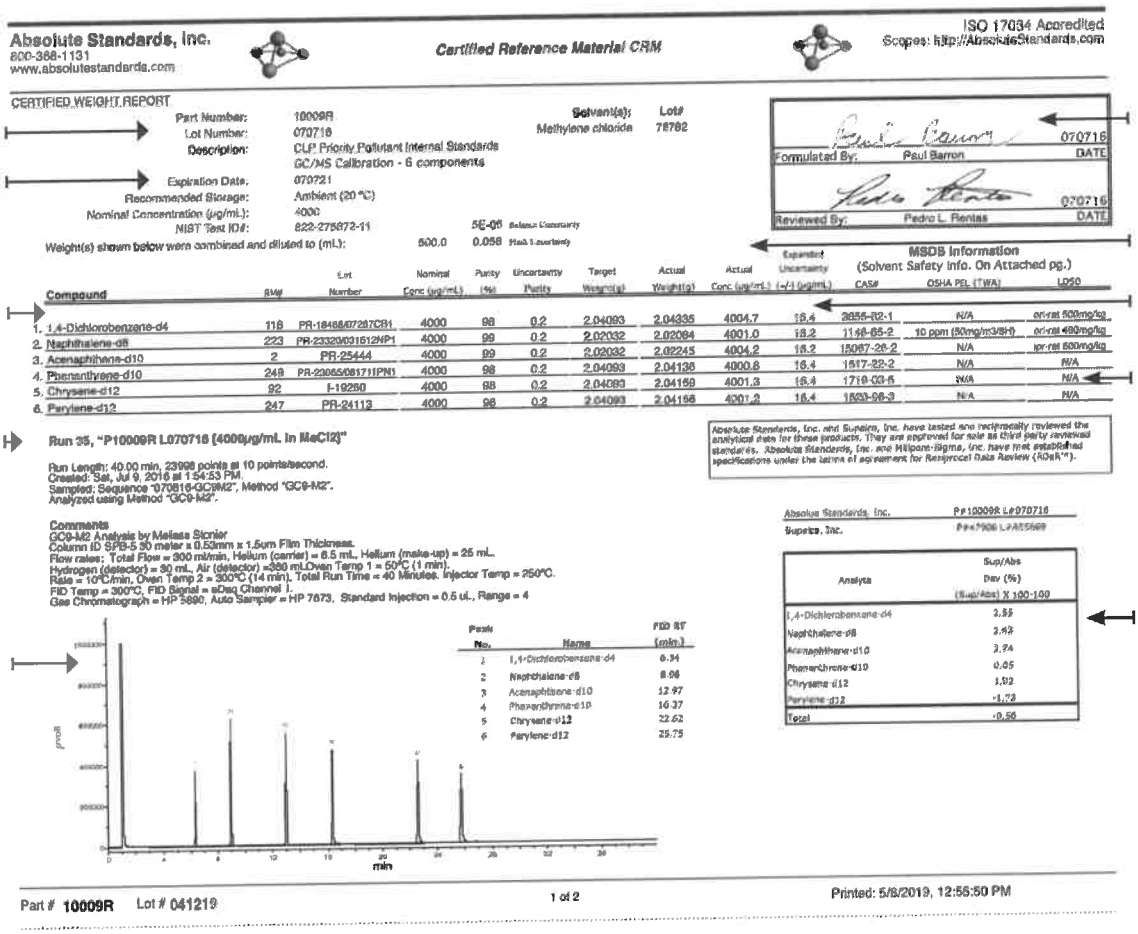
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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



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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot#: 78782

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

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

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

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

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

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

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

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

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

counts
min

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

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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

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Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

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

Solvent(s):	Lot#
Methylene chloride	105345

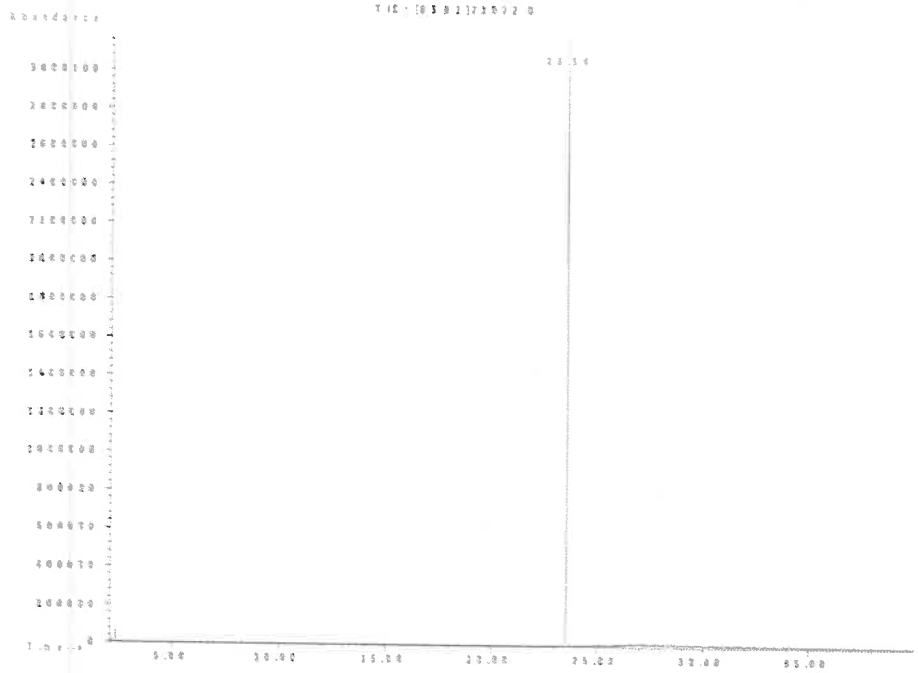
P13477 → P13496 } X.P. 07/24/24

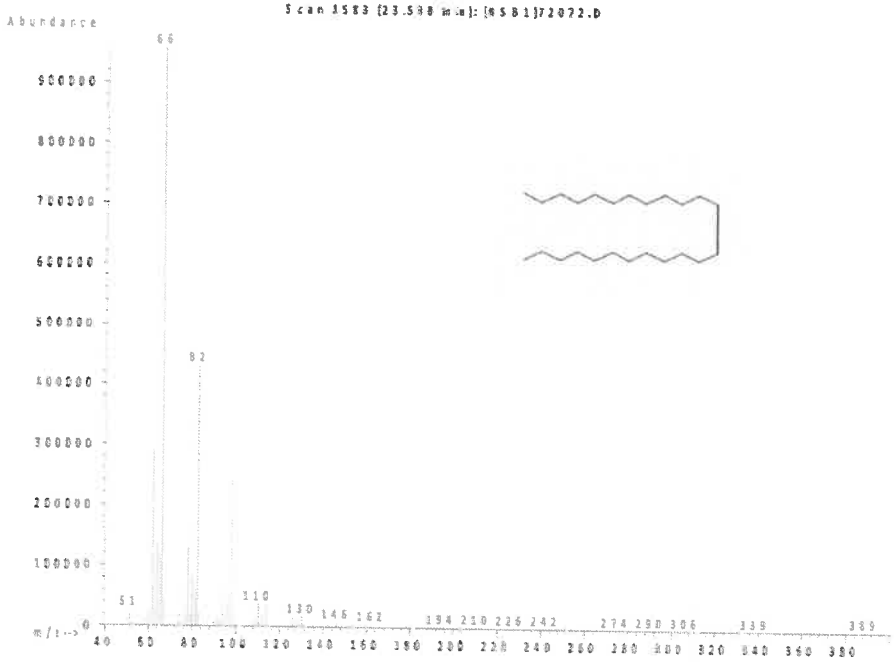
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

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

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

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





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

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

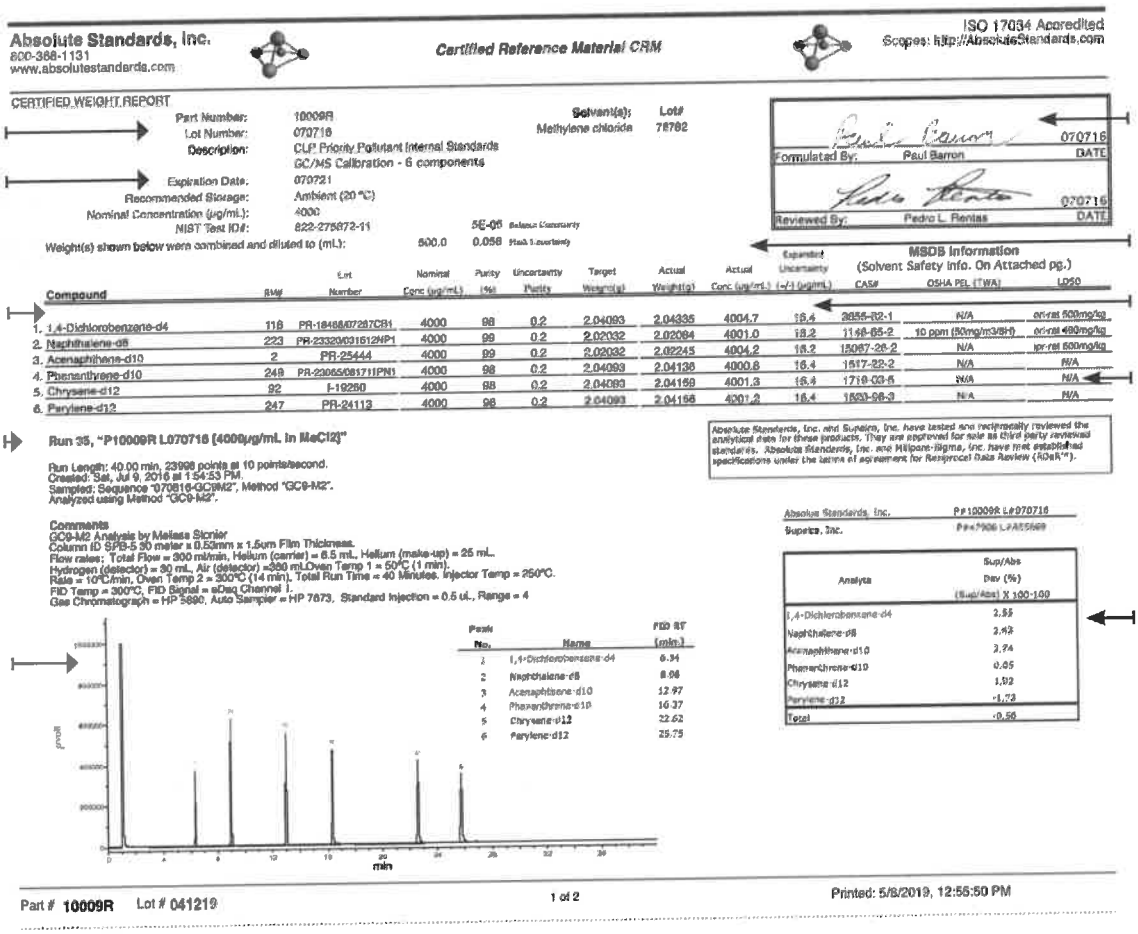
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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



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www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot#: 78782

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

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

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

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

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

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

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

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

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

counts
min

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

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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

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www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

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

Solvent(s):	Lot#
Methylene chloride	105345

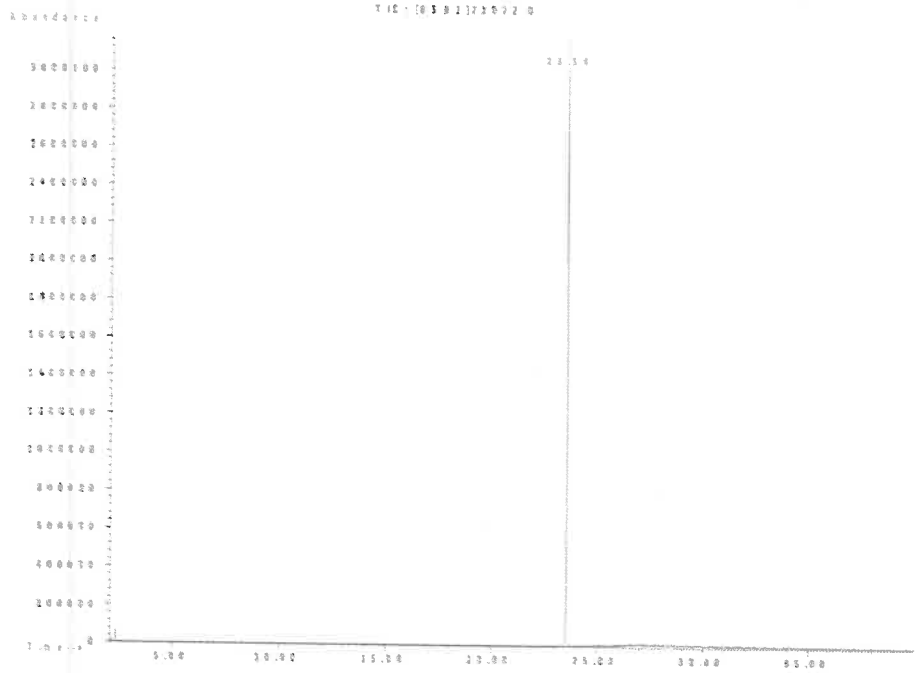
P13477 → P13496 } X.P. 07/24/24

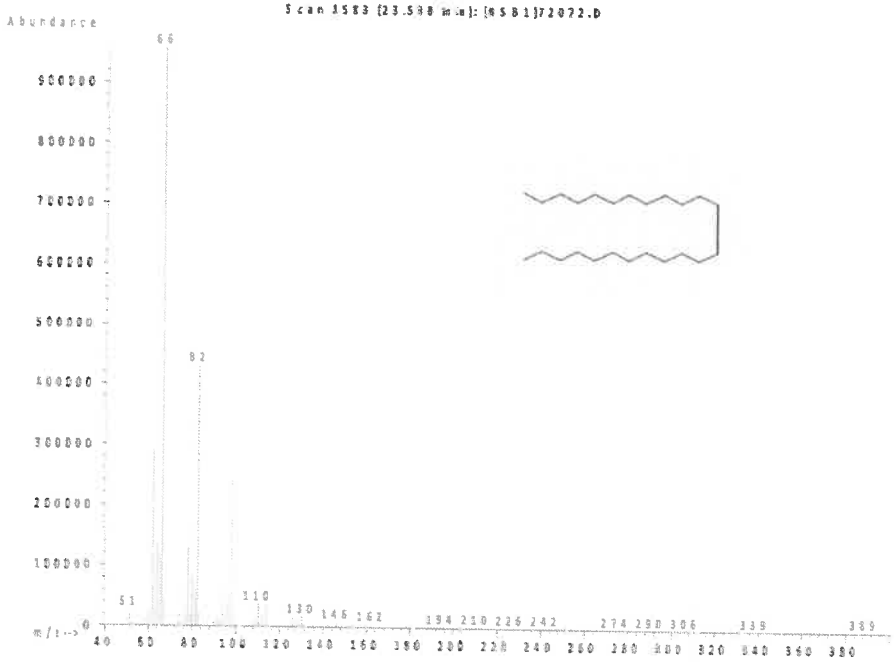
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

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

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

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





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

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

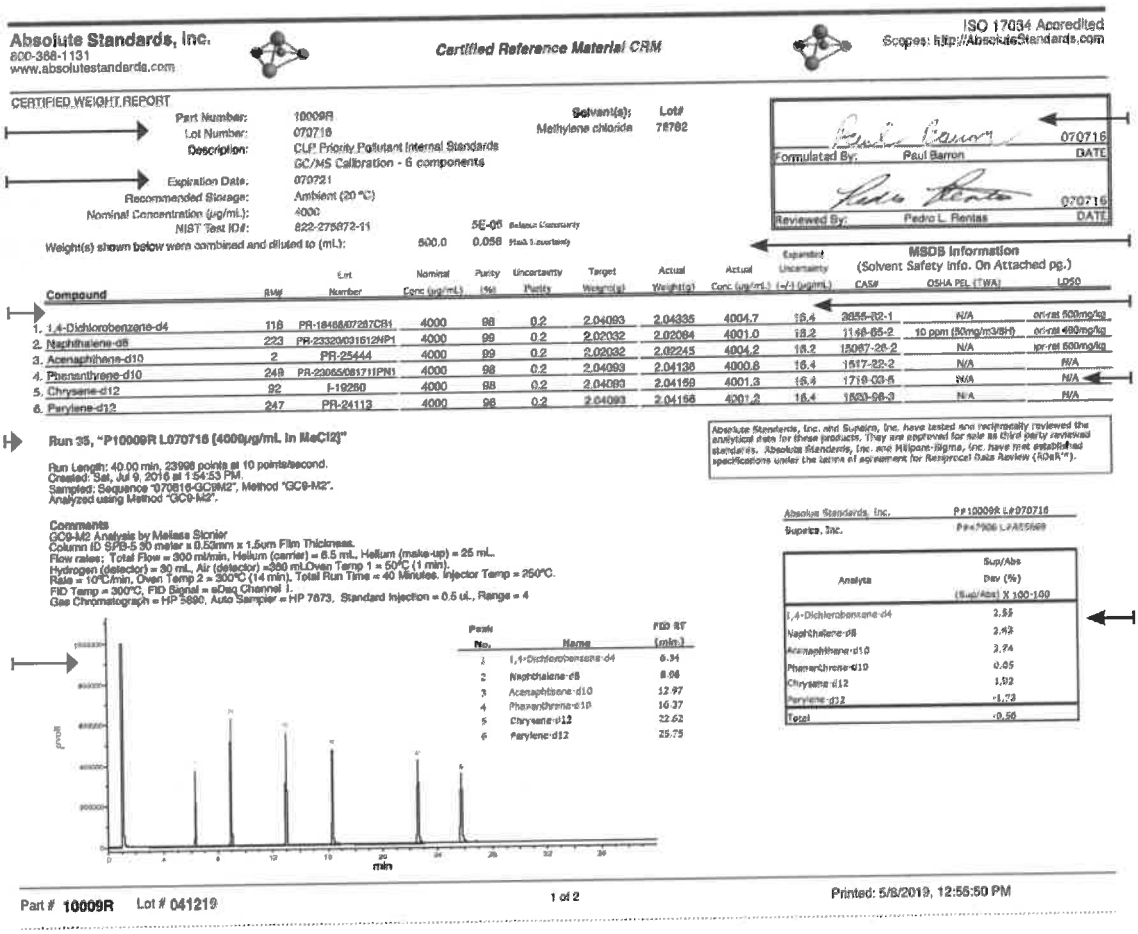
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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



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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot#: 78782

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

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

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

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

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

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

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

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

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

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

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

counts
min

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

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

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

Solvent(s):	Lot#
Methylene chloride	105345

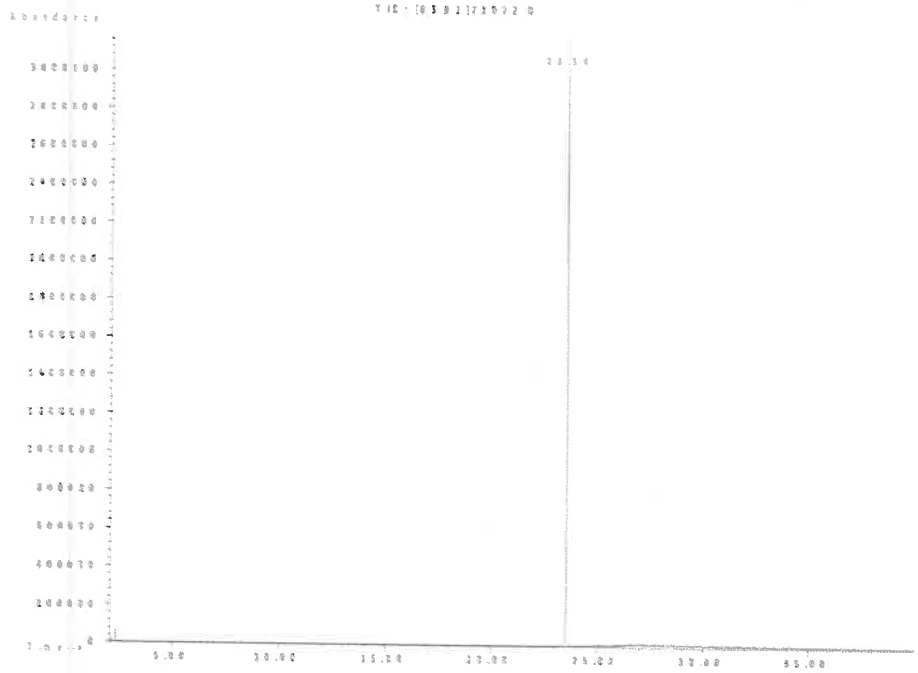
P13477 → P13496 } X.P. 07/24/24

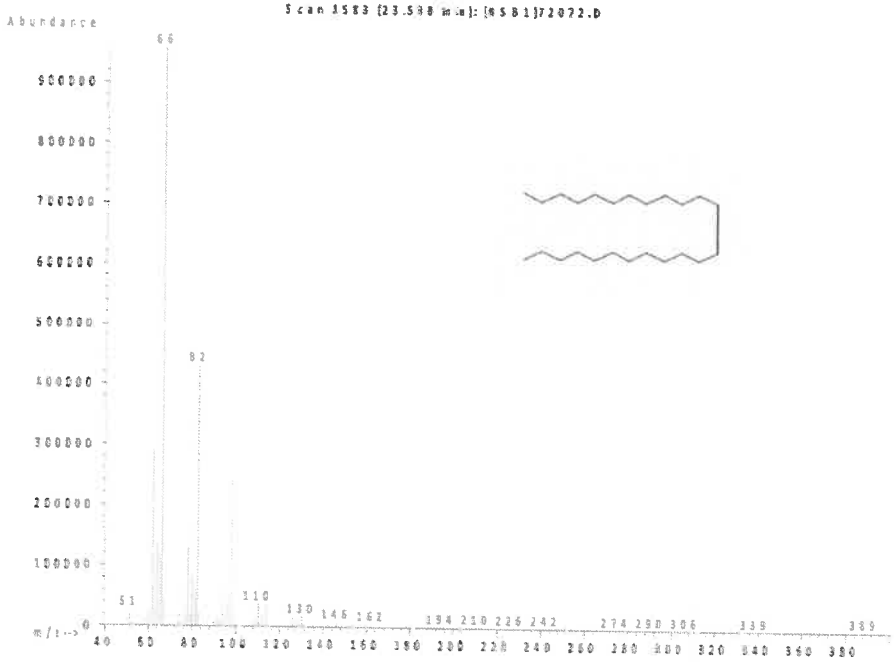
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

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

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

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





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

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

ALLIANCE PROJECT NO.
QUOTE NO. Q1478
COC Number 2045803

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Vafiadis
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☒ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1. VOCs (8260B)
2. SVOCs (8270C)
3. TPH DRO – TPH-DRO (8015B)
4. Metals (6010B + 7471A)
5. PCBs (8082)
6. Ignitability (1030)
7. Corrosivity (9045C)
8. TPH GRO (8015B)
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E	E	E	B/E	E	E	E	E		← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	IDW-AQ-MW-19B-COMP-022825	AQ	X		2-28-25	1110	5		X	X	X	X	X	X			
2.	IDW-AQ-DRUM-610-022825	AQ		X	2-28-25	1115	3	X		X					X		
3.	IDW-AQ-IW-01-COMP-022825	AQ	X		2-28-25	1120	5		X	X	X	X	X	X			
4.	IDW-AQ-DRUM-616-022825	AQ		X	2-28-25	1125	3	X		X					X		
5.	IDW-AQ-IW-02-COMP-022825	AQ	X		2-28-25	1130	4		X	X	X	X	X	X			
6.	IDW-AQ-DRUM-614-022825	AQ		X	2-28-25	1135	3	X		X					X		
7.	IDW-AQ-IW-03-COMP-022825	AQ	X		2-28-25	1140	4	~~X~~	X	X	X	X	X	X			
8.	IDW-AQ-DRUM-612-022825	AQ		X	2-28-25	1145	3	X		X					X		
9.	~~IDW-SO-COMP-022825~~ (TA)	~~SO~~	X		~~2-28-25~~	~~1230~~	~~5~~		X	X	X	X	X	X			
10.	~~IDW-SO-DRUM-582-022825~~ (TA)	~~SO~~		X	~~2-28-25~~		~~1~~										

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1720 2-28-25	1. 2-28-25 1720
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.1 °C
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

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

ALLIANCE PROJECT NO. Q1478
QUOTE NO.
COC Number 2045804

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yafante
PHONE: (781)414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

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

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 + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other
❑ EDD FORMAT

ANALYSIS

1. TCLP SVOCs (1311/8270C)
2. TCLP VOCs (1311/8260C)
3. TPH GRO / TPH DRO (8015)
4. TCLP Metals (1311/6010)
5. PCBs (8082)
6. Ignitability (1030)
7. Corrosivity (9040C)
8. TPH DRO (8015B)
9.

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRES 1	PRES 2	PRES 3	PRES 4	PRES 5	PRES 6	PRES 7	PRES 8	PRES 9
1.	IDW-SO-COMP-022825	SO	X		2-28-25	1230	5	X	X	X	X	X	X	X	X	
2.	IDW-SO-DRUM-582-022825	SO		X	2-28-25	1725	1		X	X						
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	2-28-25 1820	1. 2.28.2025 1720
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT X COOLER TEMP 2.0 °C
Comments:

Page 2 of 2

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

Laboratory Certification

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1478 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : John Ynfante
Invoice Name : JACOBS Engineering Grou
Invoice Contact : John Ynfante

Order Date : 3/3/2025 10:28:22 AM
Project Name : Former Schlumberger Site I
Receive DateTime : 2/28/2025 5:20:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1478-02	IDW-AQ-DRUM-610-022825	Water	02/28/2025	11:15					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1478-04	IDW-AQ-DRUM-616-022825	Water	02/28/2025	11:25					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1478-06	IDW-AQ-DRUM-614-022825	Water	02/28/2025	11:35					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1478-08	IDW-AQ-DRUM-612-022825	Water	02/28/2025	11:45					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 3-3-25 1200

Received By :
Date / Time : 3/3/25 1200

Storage Area : VOA Refridgerator Room