

Cover Page

Order ID : Q1216

Project ID : NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Client : RU2 Engineering, LLC

Lab Sample Number

Q1216-01
Q1216-02
Q1216-03
Q1216-04
Q1216-05
Q1216-06
Q1216-07
Q1216-08
Q1216-09
Q1216-10
Q1216-11
Q1216-12
Q1216-13
Q1216-14
Q1216-15
Q1216-16
Q1216-17
Q1216-18
Q1216-19
Q1216-20

Client Sample Number

JPP-18.1-012825
JPP-18.1-012825
JPP-18.1-012825
JPP-18.1-012825
JPP-21.1-012825
JPP-21.1-012825
JPP-21.1-012825
JPP-21.1-012825
JPP-21.2-012825
JPP-21.2-012825
JPP-21.2-012825
JPP-21.2-012825
JPP-26.1-012825
JPP-26.1-012825
JPP-26.1-012825
JPP-26.1-012825
JPP-26.2-012825
JPP-26.2-012825
JPP-26.2-012825
JPP-26.2-012825

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

Signature : _____

Date: 2/7/2025



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

CASE NARRATIVE

RU2 Engineering, LLC

Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Project # N/A

Chemtech Project # Q1216

Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:

20 Solid samples were received on 01/29/2025.

B. Parameters

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

C. Analytical Techniques:

The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302. The analysis of Diesel Range Organics was based on method 8015D and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for JPP-26.1-012825 [Tetracosane-d50 - 168%] but this sample was required dilution as well due to high concentration, therefore no further corrective action taken.

The Retention Times were acceptable for all samples.

The MS {Q1215-01MS} with File ID: FG015260.D recoveries met the requirements for all compounds except for DRO[-143%] Due to matrix interference.

The MSD {Q1215-01MSD} with File ID: FG015261.D recoveries met the acceptable requirements except for DRO[-126%] .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .



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Samples JPP-18.1-012825, JPP-21.1-012825, JPP-21.2-012825, JPP-26.1-012825 and JPP-26.2-012825 were diluted due to bad matrices. The above sample original run is reported as screening data in miscellaneous data.

E. Additional Comments:

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1216

MATRIX: Solid

METHOD: 8015D/3541

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified.			✓
2. Standard Summary Submitted.			✓
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for JPP-26.1-012825 [Tetracosane-d50 - 168%] but this sample was required dilution as well due to high concentration, therefore no further corrective action taken.		✓	
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 {Q1215-01MS} with File ID: FG015260.D recoveries met the requirements for all compounds except for DRO[-143%] Due to matrix interference. The MSD {Q1215-01MSD} with File ID: FG015261.D recoveries met the acceptable requirements except for DRO[-126%] . The Blank Spike met requirements for all samples . The RPD met criteria .		✓	
7. Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8. Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

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

ADDITIONAL COMMENTS:

Samples JPP-18.1-012825, JPP-21.1-012825, JPP-21.2-012825, JPP-26.1-012825 and JPP-26.2-012825 were diluted due to bad matrices The above sample original run is reported as screening data in miscellaneous data.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1216

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 02/07/2025

LAB CHRONICLE

OrderID:	Q1216	OrderDate:	1/29/2025 11:54:00 AM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1216-01	JPP-18.1-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-03	JPP-18.1-012825	SOIL	PCB Pesticide-TCL	8082A 8081B	01/28/25	01/30/25 01/30/25	01/30/25 01/30/25	01/29/25
Q1216-04	JPP-18.1-012825	TCLP	TCLP Herbicide TCLP Pesticide	8151A 8081B	01/28/25	01/31/25 01/31/25	02/01/25 02/03/25	01/29/25
Q1216-05	JPP-21.1-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-07	JPP-21.1-012825	SOIL	PCB Pesticide-TCL	8082A 8081B	01/28/25	01/30/25 01/30/25	01/30/25 01/30/25	01/29/25
Q1216-08	JPP-21.1-012825	TCLP	TCLP Herbicide TCLP Pesticide	8151A 8081B	01/28/25	01/31/25 01/31/25	02/01/25 02/03/25	01/29/25
Q1216-09	JPP-21.2-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-11	JPP-21.2-012825	SOIL	PCB Pesticide-TCL	8082A 8081B	01/28/25	01/30/25 01/30/25	01/30/25 01/30/25	01/29/25
Q1216-12	JPP-21.2-012825	TCLP			01/28/25			01/29/25

LAB CHRONICLE

			TCLP Herbicide	8151A	01/31/25	02/01/25	
			TCLP Pesticide	8081B	01/31/25	02/03/25	
Q1216-13	JPP-26.1-012825	SOIL			01/28/25		01/29/25
			Diesel Range Organics	8015D	01/30/25	01/30/25	
			Gasoline Range Organics	8015D		01/30/25	
Q1216-15	JPP-26.1-012825	SOIL			01/28/25		01/29/25
			PCB	8082A	01/30/25	01/30/25	
			Pesticide-TCL	8081B	01/30/25	02/03/25	
Q1216-16	JPP-26.1-012825	TCLP			01/28/25		01/29/25
			TCLP Herbicide	8151A	01/31/25	02/01/25	
			TCLP Pesticide	8081B	01/31/25	02/03/25	
Q1216-17	JPP-26.2-012825	SOIL			01/28/25		01/29/25
			Diesel Range Organics	8015D	01/30/25	01/30/25	
			Gasoline Range Organics	8015D		01/30/25	
Q1216-19	JPP-26.2-012825	SOIL			01/28/25		01/29/25
			PCB	8082A	01/30/25	01/30/25	
			Pesticide-TCL	8081B	01/30/25	01/30/25	
Q1216-20	JPP-26.2-012825	TCLP			01/28/25		01/29/25
			TCLP Herbicide	8151A	01/31/25	02/01/25	
			TCLP Pesticide	8081B	01/31/25	02/03/25	



QC SUMMARY

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: RU2 Engineering, LLC
Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG No.: Q1216

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG015246.D	87				0
PIBLK-FG015258.D	89				0
PIBLK-FG015269.D	90				0
PB166361BL	79				0
PB166361BS	76				0
JPP-29.1-012825MS	88				0
JPP-29.1-012825MSD	89				0
JPP-18.1-012825	64				0
JPP-21.1-012825	81				0
JPP-21.2-012825	62				0
JPP-26.1-012825	168 *				1
JPP-26.2-012825	73				0

QC LIMITS

TETRACOSANE-d50

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

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

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** RU2 Engineering, LLC
Lab Code: CHEM **Cas No:** Q1216 **SAS No :** Q1216 **SDG No:** Q1216
Client SampleID : JPP-29.1-012825MS **Datafile:** FG015260.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7483	92000	81300	-143%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** RU2 Engineering, LLC
Lab Code: CHEM **Cas No:** Q1216 **SAS No :** Q1216 **SDG No:** Q1216
Client SampleID : JPP-29.1-012825MSD **Datafile:** FG015261.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7471	92000	82600	-126%	*	68-131

MS/MSD % Recovery RPD : 12.8

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

Lab Name: Chemtech **Client:** RU2 Engineering, LLC
Lab Code: CHEM **Cas No:** Q1216 **SAS No :** Q1216 **SDG No:** Q1216
Matrix Spike - EPA Sample No : PB166361BS **Datafile:** FG015249.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6660	0	5211	78	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166361BL

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216

SAS No.: Q1216 SDG NO.: Q1216

Lab File ID: FG015250.D

Lab Sample ID: PB166361BL

Instrument ID: FG

Date Extracted: 01/30/2025

Matrix: (soil/water) Soil

Date Analyzed: 01/30/25

Level: (low/med) low

Time Analyzed: 12:56

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166361BS	PB166361BS	FG015249.D	01/30/25
JPP-29.1-012825MS	Q1215-01MS	FG015260.D	01/30/25
JPP-29.1-012825MSD	Q1215-01MSD	FG015261.D	01/30/25
JPP-18.1-012825	Q1216-01	FG015264.D	01/30/25
JPP-21.1-012825	Q1216-05	FG015265.D	01/30/25
JPP-21.2-012825	Q1216-09	FG015266.D	01/30/25
JPP-26.1-012825	Q1216-13	FG015267.D	01/30/25
JPP-26.2-012825	Q1216-17	FG015268.D	01/30/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-18.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	81.2
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015264.D	10	01/30/25 09:15	01/30/25 20:02	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	51200		2270	20500	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.27		37 - 130	64%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015264.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 20:02
Operator : YP\AJ
Sample : Q1216-01 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-18.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:12:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.048	163335	1.273 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

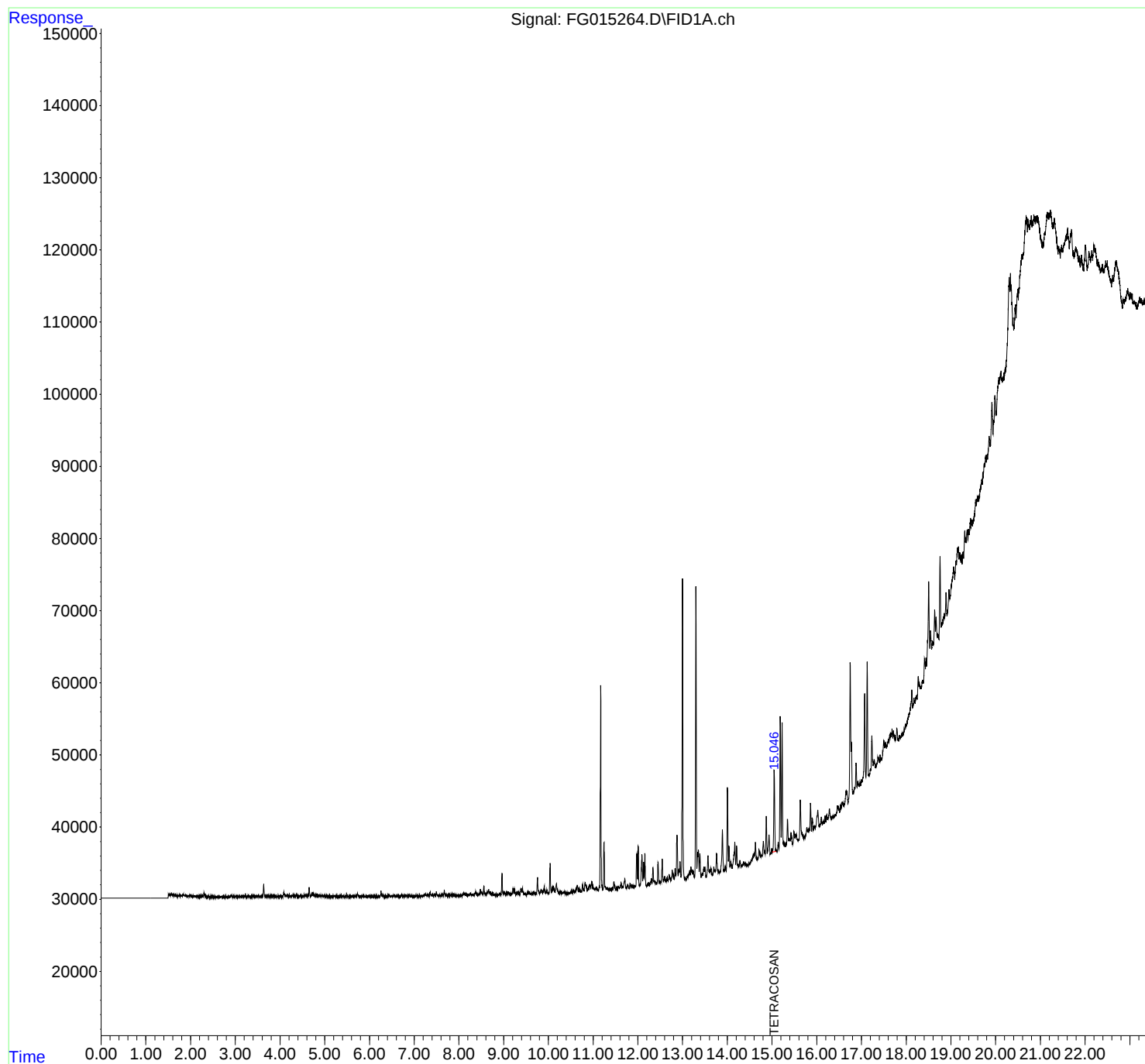
(m)=manual int.

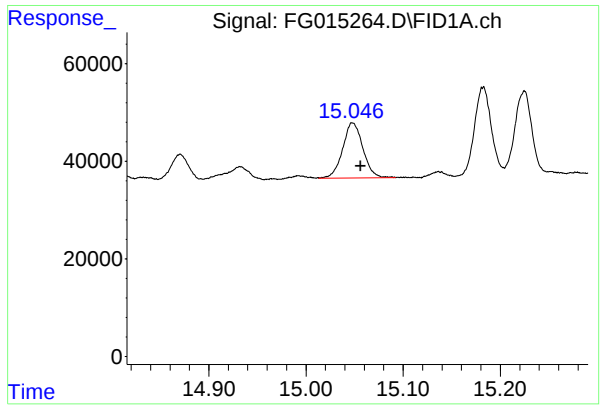
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015264.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 20:02
Operator : YP\AJ
Sample : Q1216-01 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-18.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:12:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.048 min
Delta R.T.: -0.008 min
Response: 163335
Conc: 1.27 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-18.1-012825

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015264.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 20:02
 Sample : Q1216-01 10X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.385	4.350	4.405	BH	50	-247	-0.04%	-0.001%
2	4.409	4.405	4.418	PH	14	-188	-0.03%	-0.001%
3	4.422	4.418	4.430	PH	-13	-374	-0.06%	-0.002%
4	4.434	4.430	4.458	PH	18	-763	-0.13%	-0.004%
5	4.464	4.458	4.474	PH	39	-264	-0.05%	-0.001%
6	4.493	4.474	4.514	PH	36	-624	-0.11%	-0.004%
7	4.543	4.514	4.558	PH	147	546	0.09%	0.003%
8	4.589	4.558	4.595	PH	116	524	0.09%	0.003%
9	4.604	4.595	4.613	PH	96	243	0.04%	0.001%
10	4.615	4.613	4.633	HH	47	228	0.04%	0.001%
11	4.652	4.633	4.688	PH	1163	10920	1.88%	0.062%
12	4.714	4.688	4.724	PH	244	1919	0.33%	0.011%
13	4.734	4.724	4.749	HH	439	4086	0.70%	0.023%
14	4.759	4.749	4.783	HH	285	2658	0.46%	0.015%
15	4.808	4.783	4.838	PH	160	1636	0.28%	0.009%
16	4.843	4.838	4.855	PH	10	-400	-0.07%	-0.002%
17	4.870	4.855	4.883	PH	15	-532	-0.09%	-0.003%
18	4.889	4.883	4.898	PH	30	-320	-0.05%	-0.002%
19	4.917	4.898	4.932	PH	84	99	0.02%	0.001%
20	4.936	4.932	4.970	PH	38	-527	-0.09%	-0.003%
21	4.975	4.970	4.988	PH	18	-342	-0.06%	-0.002%
22	4.996	4.988	5.000	PH	18	-174	-0.03%	-0.001%
23	5.004	5.000	5.027	PH	56	-352	-0.06%	-0.002%
24	5.031	5.027	5.034	PH	-38	-151	-0.03%	-0.001%
25	5.037	5.034	5.079	PH	-8	-1104	-0.19%	-0.006%
26	5.084	5.079	5.089	PH	-30	-316	-0.05%	-0.002%
27	5.094	5.089	5.098	PH	-41	-377	-0.06%	-0.002%
28	5.105	5.098	5.139	PH	-54	-1740	-0.30%	-0.010%
29	5.171	5.139	5.185	PH	-22	-1689	-0.29%	-0.010%
30	5.189	5.185	5.202	PH	12	-290	-0.05%	-0.002%
31	5.207	5.202	5.214	PH	6	-264	-0.05%	-0.001%
32	5.220	5.214	5.227	PH	-62	-512	-0.09%	-0.003%
33	5.233	5.227	5.253	PH	-53	-1272	-0.22%	-0.007%
34	5.257	5.253	5.278	PH	-45	-1297	-0.22%	-0.007%
35	5.311	5.278	5.318	PH	5	-1644	-0.28%	-0.009%
36	5.321	5.318	5.349	PH	-89	-2080	-0.36%	-0.012%

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37	5.364	5.349	5.393	PH	92	-1410	-0.24%	-0.008%
38	5.404	5.393	5.409	PH	-55	-971	-0.17%	-0.005%
39	5.419	5.409	5.427	PH	-30	-1066	-0.18%	-0.006%
40	5.431	5.427	5.438	PH	-66	-678	-0.12%	-0.004%
41	5.444	5.438	5.452	PH	-103	-949	-0.16%	-0.005%
42	5.456	5.452	5.461	PH	-55	-416	-0.07%	-0.002%
43	5.491	5.461	5.520	PH	181	-593	-0.10%	-0.003%
44	5.524	5.520	5.532	PH	-65	-639	-0.11%	-0.004%
45	5.553	5.532	5.565	PH	-39	-1765	-0.30%	-0.010%
46	5.570	5.565	5.585	PH	-36	-1413	-0.24%	-0.008%
47	5.589	5.585	5.600	PH	-68	-1095	-0.19%	-0.006%
48	5.624	5.600	5.635	PH	-76	-2682	-0.46%	-0.015%
49	5.639	5.635	5.643	PH	-58	-459	-0.08%	-0.003%
50	5.646	5.643	5.666	PH	-102	-1505	-0.26%	-0.009%
51	5.692	5.666	5.704	PH	55	-929	-0.16%	-0.005%
52	5.709	5.704	5.712	PH	-69	-485	-0.08%	-0.003%
53	5.730	5.712	5.751	PH	368	2769	0.48%	0.016%
54	5.758	5.751	5.787	PH	-7	-1139	-0.20%	-0.006%
55	5.792	5.787	5.807	PH	-67	-914	-0.16%	-0.005%
56	5.815	5.807	5.859	PH	1	-2492	-0.43%	-0.014%
57	5.872	5.859	5.894	PH	7	-1095	-0.19%	-0.006%
58	5.899	5.894	5.916	PH	-90	-1424	-0.24%	-0.008%
59	5.922	5.916	5.933	PH	-76	-1229	-0.21%	-0.007%
60	5.951	5.933	5.970	PH	-36	-1959	-0.34%	-0.011%
61	5.979	5.970	5.989	PH	-41	-830	-0.14%	-0.005%
62	6.000	5.989	6.040	PH	-7	-2775	-0.48%	-0.016%
63	6.045	6.040	6.055	PH	-49	-882	-0.15%	-0.005%
64	6.059	6.055	6.064	PH	-34	-404	-0.07%	-0.002%
65	6.065	6.064	6.089	PH	-36	-1699	-0.29%	-0.010%
66	6.099	6.089	6.105	PH	-69	-1144	-0.20%	-0.006%
67	6.107	6.105	6.111	PH	-65	-403	-0.07%	-0.002%
68	6.122	6.111	6.147	PH	-64	-2511	-0.43%	-0.014%
69	6.162	6.147	6.192	PH	50	-2363	-0.41%	-0.013%
70	6.199	6.192	6.214	PH	-30	-1343	-0.23%	-0.008%
71	6.222	6.214	6.240	PH	-48	-1192	-0.20%	-0.007%
72	6.259	6.240	6.304	PH	670	5500	0.95%	0.031%
73	6.309	6.304	6.319	PH	22	-43	-0.01%	-0.000%
74	6.323	6.319	6.360	PH	-24	-1623	-0.28%	-0.009%
75	6.371	6.360	6.381	PH	-5	-463	-0.08%	-0.003%
76	6.409	6.381	6.417	PH	28	-1219	-0.21%	-0.007%
77	6.435	6.417	6.452	PH	113	365	0.06%	0.002%
78	6.455	6.452	6.462	PH	-12	-257	-0.04%	-0.001%
79	6.470	6.462	6.510	PH	-20	-1813	-0.31%	-0.010%
80	6.543	6.510	6.548	PH	-10	-888	-0.15%	-0.005%
81	6.564	6.548	6.599	PH	86	-519	-0.09%	-0.003%
82	6.604	6.599	6.623	PH	-25	-806	-0.14%	-0.005%
83	6.632	6.623	6.682	PH	-23	-1963	-0.34%	-0.011%
84	6.723	6.682	6.747	PH	241	255	0.04%	0.001%
85	6.805	6.747	6.827	PH	70	-1767	-0.30%	-0.010%
86	6.830	6.827	6.842	PH	32	-193	-0.03%	-0.001%
87	6.873	6.842	6.905	PH	117	-63	-0.01%	-0.000%
88	6.908	6.905	6.931	PH	-35	-1186	-0.20%	-0.007%
89	6.937	6.931	6.955	PH	-36	-1250	-0.21%	-0.007%

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90	6.960	6.955	6.968	PH	-46	-816	-0.14%	-0.005%
91	6.974	6.968	6.995	PH	-33	-925	-0.16%	-0.005%
92	7.005	6.995	7.042	PH	55	-984	-0.17%	-0.006%
93	7.049	7.042	7.061	PH	15	-196	-0.03%	-0.001%
94	7.067	7.061	7.115	PH	3	-1958	-0.34%	-0.011%
95	7.128	7.115	7.161	PH	9	-1503	-0.26%	-0.008%
96	7.166	7.161	7.169	PH	-14	-295	-0.05%	-0.002%
97	7.172	7.169	7.176	PH	-47	-226	-0.04%	-0.001%
98	7.184	7.176	7.189	PH	4	-398	-0.07%	-0.002%
99	7.195	7.189	7.210	PH	1	-229	-0.04%	-0.001%
100	7.221	7.210	7.234	PH	131	1067	0.18%	0.006%
101	7.256	7.234	7.285	HH	215	2483	0.43%	0.014%
102	7.302	7.285	7.333	PH	155	1820	0.31%	0.010%
103	7.360	7.333	7.380	PH	465	5698	0.98%	0.032%
104	7.385	7.380	7.390	HH	64	173	0.03%	0.001%
105	7.402	7.390	7.430	HH	244	2097	0.36%	0.012%
106	7.446	7.430	7.477	PH	276	3187	0.55%	0.018%
107	7.497	7.477	7.535	PH	548	5404	0.93%	0.031%
108	7.547	7.535	7.567	PH	128	967	0.17%	0.005%
109	7.572	7.567	7.589	HH	79	392	0.07%	0.002%
110	7.592	7.589	7.605	PH	32	122	0.02%	0.001%
111	7.612	7.605	7.632	PH	128	1234	0.21%	0.007%
112	7.636	7.632	7.649	HH	106	833	0.14%	0.005%
113	7.674	7.649	7.695	HH	840	8868	1.52%	0.050%
114	7.707	7.695	7.729	HH	151	1353	0.23%	0.008%
115	7.731	7.729	7.738	HH	100	262	0.05%	0.001%
116	7.747	7.738	7.751	HH	61	253	0.04%	0.001%
117	7.806	7.751	7.821	PH	134	2103	0.36%	0.012%
118	7.851	7.821	7.881	PH	214	3662	0.63%	0.021%
119	7.885	7.881	7.909	HH	110	497	0.09%	0.003%
120	7.945	7.909	7.960	PH	120	1252	0.22%	0.007%
121	7.962	7.960	7.986	HH	99	593	0.10%	0.003%
122	8.012	7.986	8.017	PH	109	936	0.16%	0.005%
123	8.051	8.017	8.074	HH	100	1346	0.23%	0.008%
124	8.104	8.074	8.146	PH	444	9075	1.56%	0.051%
125	8.152	8.146	8.190	HH	212	3775	0.65%	0.021%
126	8.204	8.190	8.224	HH	240	2641	0.45%	0.015%
127	8.230	8.224	8.235	HH	124	613	0.11%	0.003%
128	8.257	8.235	8.290	HH	355	7106	1.22%	0.040%
129	8.308	8.290	8.329	HH	219	3431	0.59%	0.019%
130	8.377	8.329	8.414	HH	596	13252	2.28%	0.075%
131	8.419	8.414	8.423	HH	197	869	0.15%	0.005%
132	8.436	8.423	8.455	HH	235	4006	0.69%	0.023%
133	8.480	8.455	8.500	HH	947	12667	2.18%	0.072%
134	8.508	8.500	8.524	HH	608	6105	1.05%	0.035%
135	8.559	8.524	8.609	HH	1322	25233	4.34%	0.143%
136	8.666	8.609	8.711	HH	872	28741	4.94%	0.163%
137	8.715	8.711	8.737	HH	358	3970	0.68%	0.022%
138	8.758	8.737	8.774	HH	409	5696	0.98%	0.032%
139	8.781	8.774	8.794	HH	216	1735	0.30%	0.010%
140	8.807	8.794	8.832	HH	229	3086	0.53%	0.017%
141	8.841	8.832	8.845	HH	151	915	0.16%	0.005%

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142	8.852	8.845	8.871	HH	122	1718	0.30%	0.010%
143	8.876	8.871	8.879	HH	164	576	0.10%	0.003%
144	8.889	8.879	8.897	HH	149	1323	0.23%	0.007%
145	8.920	8.897	8.927	HH	293	3859	0.66%	0.022%
146	8.929	8.927	8.941	HH	264	1794	0.31%	0.010%
147	8.965	8.941	8.992	HH	3131	36166	6.21%	0.205%
148	9.014	8.992	9.048	HH	539	12683	2.18%	0.072%
149	9.054	9.048	9.067	HH	336	3466	0.60%	0.020%
150	9.106	9.067	9.140	HH	505	14629	2.51%	0.083%
151	9.150	9.140	9.171	HH	378	5216	0.90%	0.030%
152	9.210	9.171	9.227	HH	1018	16572	2.85%	0.094%
153	9.243	9.227	9.268	HH	1048	15122	2.60%	0.086%
154	9.296	9.268	9.300	HH	403	6705	1.15%	0.038%
155	9.305	9.300	9.329	HH	429	6641	1.14%	0.038%
156	9.334	9.329	9.352	HH	435	4742	0.81%	0.027%
157	9.356	9.352	9.359	HH	291	1086	0.19%	0.006%
158	9.386	9.359	9.405	HH	1022	18106	3.11%	0.102%
159	9.423	9.405	9.466	HH	1075	19085	3.28%	0.108%
160	9.477	9.466	9.511	HH	276	5588	0.96%	0.032%
161	9.538	9.511	9.558	HH	635	9916	1.70%	0.056%
162	9.569	9.558	9.607	HH	505	9598	1.65%	0.054%
163	9.625	9.607	9.637	HH	398	5404	0.93%	0.031%
164	9.675	9.637	9.696	HH	632	12732	2.19%	0.072%
165	9.719	9.696	9.734	HH	483	7814	1.34%	0.044%
166	9.758	9.734	9.800	HH	2505	39404	6.77%	0.223%
167	9.838	9.800	9.852	HH	865	18133	3.12%	0.103%
168	9.855	9.852	9.867	HH	498	4064	0.70%	0.023%
169	9.883	9.867	9.891	HH	654	7940	1.36%	0.045%
170	9.909	9.891	9.930	HH	1343	20025	3.44%	0.113%
171	9.935	9.930	9.952	HH	547	6305	1.08%	0.036%
172	9.970	9.952	9.989	HH	868	13335	2.29%	0.075%
173	9.993	9.989	10.000	HH	413	2586	0.44%	0.015%
174	10.004	10.000	10.009	HH	362	1772	0.30%	0.010%
175	10.039	10.009	10.065	HH	4513	57109	9.81%	0.323%
176	10.086	10.065	10.099	HH	1150	17451	3.00%	0.099%
177	10.114	10.099	10.154	HH	1250	28102	4.83%	0.159%
178	10.181	10.154	10.234	HH	1695	43485	7.47%	0.246%
179	10.248	10.234	10.261	HH	560	7955	1.37%	0.045%
180	10.281	10.261	10.302	HH	588	11185	1.92%	0.063%
181	10.307	10.302	10.312	HH	358	1814	0.31%	0.010%
182	10.327	10.312	10.334	HH	428	5187	0.89%	0.029%
183	10.350	10.334	10.399	HH	540	15805	2.72%	0.089%
184	10.404	10.399	10.420	HH	332	4009	0.69%	0.023%
185	10.449	10.420	10.464	HH	463	9610	1.65%	0.054%
186	10.509	10.464	10.544	HH	660	21603	3.71%	0.122%
187	10.567	10.544	10.597	HH	822	19509	3.35%	0.110%
188	10.620	10.597	10.632	HH	1100	17555	3.02%	0.099%
189	10.647	10.632	10.674	HH	1430	26226	4.51%	0.148%
190	10.685	10.674	10.724	HH	1089	24017	4.13%	0.136%
191	10.763	10.724	10.799	HH	1602	39678	6.82%	0.224%
192	10.821	10.799	10.836	HH	1857	30182	5.19%	0.171%
193	10.843	10.836	10.869	HH	1506	23055	3.96%	0.130%
194	10.922	10.869	10.929	HH	1435	37950	6.52%	0.215%

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195	10.935	10.929	10.950	HH	1450	15862	2.73%	0.090%
196	10.971	10.950	11.012	HH	1979	52823	9.08%	0.299%
197	11.017	11.012	11.035	HH	1011	13527	2.32%	0.077%
198	11.041	11.035	11.055	HH	999	11086	1.91%	0.063%
199	11.071	11.055	11.102	HH	1187	28327	4.87%	0.160%
200	11.109	11.102	11.121	HH	825	8279	1.42%	0.047%
201	11.138	11.121	11.144	HH	1278	14193	2.44%	0.080%
202	11.169	11.144	11.220	HH	29148	347047	59.64%	1.963%
203	11.245	11.220	11.288	HH	7388	111877	19.23%	0.633%
204	11.295	11.288	11.312	HH	1037	13898	2.39%	0.079%
205	11.327	11.312	11.333	HH	1034	11943	2.05%	0.068%
206	11.348	11.333	11.371	HH	986	21523	3.70%	0.122%
207	11.382	11.371	11.406	HH	914	17521	3.01%	0.099%
208	11.420	11.406	11.440	HH	1024	19840	3.41%	0.112%
209	11.464	11.440	11.507	HH	1953	51792	8.90%	0.293%
210	11.536	11.507	11.547	HH	1044	23418	4.02%	0.132%
211	11.564	11.547	11.592	HH	1291	30640	5.27%	0.173%
212	11.625	11.592	11.654	HH	1920	51164	8.79%	0.289%
213	11.709	11.654	11.744	HH	2401	82481	14.17%	0.467%
214	11.774	11.744	11.800	HH	1573	42108	7.24%	0.238%
215	11.825	11.800	11.845	HH	1686	37287	6.41%	0.211%
216	11.869	11.845	11.900	HH	1540	42094	7.23%	0.238%
217	11.930	11.900	11.946	HH	1408	36556	6.28%	0.207%
218	11.978	11.946	11.993	HH	5833	88423	15.19%	0.500%
219	12.008	11.993	12.035	HH	6877	95634	16.43%	0.541%
220	12.042	12.035	12.052	HH	1496	14249	2.45%	0.081%
221	12.092	12.052	12.109	HH	5640	115882	19.91%	0.655%
222	12.127	12.109	12.140	HH	4696	61933	10.64%	0.350%
223	12.157	12.140	12.194	HH	5915	97043	16.68%	0.549%
224	12.237	12.194	12.265	HH	1789	65887	11.32%	0.373%
225	12.299	12.265	12.319	HH	2365	62571	10.75%	0.354%
226	12.338	12.319	12.357	HH	3862	63289	10.88%	0.358%
227	12.369	12.357	12.405	HH	2108	55449	9.53%	0.314%
228	12.409	12.405	12.416	HH	1731	11075	1.90%	0.063%
229	12.451	12.416	12.499	HH	4648	121186	20.82%	0.685%
230	12.509	12.499	12.517	HH	2007	21759	3.74%	0.123%
231	12.520	12.517	12.524	HH	2003	7514	1.29%	0.043%
232	12.544	12.524	12.571	HH	5124	91670	15.75%	0.519%
233	12.599	12.571	12.617	HH	2679	63036	10.83%	0.357%
234	12.654	12.617	12.670	HH	2528	70726	12.15%	0.400%
235	12.700	12.670	12.717	HH	2929	69130	11.88%	0.391%
236	12.725	12.717	12.745	HH	2522	38842	6.67%	0.220%
237	12.770	12.745	12.815	HH	3539	117712	20.23%	0.666%
238	12.832	12.815	12.850	HH	3794	66291	11.39%	0.375%
239	12.874	12.850	12.902	HH	8404	163767	28.14%	0.926%
240	12.915	12.902	12.926	HH	3661	48962	8.41%	0.277%
241	12.942	12.926	12.964	HH	4622	83690	14.38%	0.473%
242	12.997	12.964	13.047	HH	43750	581933	100.00%	3.292%
243	13.060	13.047	13.079	HH	2554	45159	7.76%	0.255%
244	13.096	13.079	13.112	HH	2669	50403	8.66%	0.285%
245	13.134	13.112	13.142	HH	2978	48790	8.38%	0.276%
246	13.160	13.142	13.170	HH	3473	53704	9.23%	0.304%

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247	13.186	13.170	13.202	HH	3971	66985	11.51%	0.379%
248	13.210	13.202	13.225	HH	3537	46835	8.05%	0.265%
249	13.239	13.225	13.269	HH	3503	78788	13.54%	0.446%
250	13.297	13.269	13.320	HH	42739	523641	89.98%	2.962%
251	13.335	13.320	13.344	HH	6059	74198	12.75%	0.420%
252	13.355	13.344	13.371	HH	6412	84714	14.56%	0.479%
253	13.386	13.371	13.416	HH	5817	109435	18.81%	0.619%
254	13.440	13.416	13.455	HH	3124	69645	11.97%	0.394%
255	13.472	13.455	13.484	HH	3986	60301	10.36%	0.341%
256	13.498	13.484	13.525	HH	3987	83388	14.33%	0.472%
257	13.566	13.525	13.591	HH	5548	151638	26.06%	0.858%
258	13.605	13.591	13.617	HH	3564	52696	9.06%	0.298%
259	13.631	13.617	13.637	HH	3881	44112	7.58%	0.250%
260	13.640	13.637	13.666	HH	3697	53889	9.26%	0.305%
261	13.696	13.666	13.715	HH	3983	100609	17.29%	0.569%
262	13.721	13.715	13.737	HH	3607	46085	7.92%	0.261%
263	13.760	13.737	13.788	HH	5893	136734	23.50%	0.773%
264	13.792	13.788	13.820	HH	3493	65440	11.25%	0.370%
265	13.829	13.820	13.840	HH	3316	38808	6.67%	0.220%
266	13.890	13.840	13.929	HH	9179	269565	46.32%	1.525%
267	13.959	13.929	13.973	HH	4072	98824	16.98%	0.559%
268	14.003	13.973	14.024	HH	15000	251665	43.25%	1.423%
269	14.038	14.024	14.058	HH	6806	113022	19.42%	0.639%
270	14.080	14.058	14.108	HH	4687	130080	22.35%	0.736%
271	14.167	14.108	14.188	HH	7466	253467	43.56%	1.434%
272	14.207	14.188	14.229	HH	6869	133704	22.98%	0.756%
273	14.236	14.229	14.253	HH	4316	60725	10.44%	0.343%
274	14.279	14.253	14.313	HH	4884	158878	27.30%	0.899%
275	14.359	14.313	14.363	HH	4545	128318	22.05%	0.726%
276	14.371	14.363	14.405	HH	4665	113169	19.45%	0.640%
277	14.419	14.405	14.435	HH	4414	79131	13.60%	0.448%
278	14.439	14.435	14.462	HH	4307	68127	11.71%	0.385%
279	14.479	14.462	14.489	HH	4575	70265	12.07%	0.397%
280	14.495	14.489	14.497	HH	4458	21760	3.74%	0.123%
281	14.505	14.497	14.518	HH	4596	57228	9.83%	0.324%
282	14.536	14.518	14.540	HH	4964	63842	10.97%	0.361%
283	14.602	14.540	14.609	HH	5857	220289	37.85%	1.246%
284	14.628	14.609	14.668	HH	7447	207973	35.74%	1.176%
285	14.675	14.668	14.682	HH	5190	44502	7.65%	0.252%
286	14.708	14.682	14.747	HH	6408	223907	38.48%	1.266%
287	14.764	14.747	14.779	HH	5641	106104	18.23%	0.600%
288	14.806	14.779	14.824	HH	7572	179195	30.79%	1.014%
289	14.831	14.824	14.849	HH	6238	90632	15.57%	0.513%
290	14.870	14.849	14.894	HH	10989	219841	37.78%	1.243%
291	14.932	14.894	14.957	HH	8445	262153	45.05%	1.483%
292	14.966	14.957	14.972	HH	5933	52953	9.10%	0.300%
293	14.992	14.972	15.010	HH	6573	143820	24.71%	0.813%
294	15.048	15.010	15.119	HH	17369	562884	96.73%	3.184%
295	15.137	15.119	15.153	HH	7399	142200	24.44%	0.804%
296	15.182	15.153	15.204	HH	24632	417882	71.81%	2.364%
297	15.225	15.204	15.268	HH	24002	476022	81.80%	2.693%
298	15.278	15.268	15.300	HH	7254	138124	23.74%	0.781%
299	15.305	15.300	15.310	HH	6994	41509	7.13%	0.235%

					rteres			
300	15.346	15.310	15.373	HH	10573	316956	54.47%	1.793%
301	15.387	15.373	15.403	HH	7968	138285	23.76%	0.782%
302	15.426	15.403	15.462	HH	8619	282900	48.61%	1.600%
303	15.490	15.462	15.515	HH	8881	258973	44.50%	1.465%
304	15.541	15.515	15.582	HH	8580	325460	55.93%	1.841%
305	15.587	15.582	15.592	HH	7737	44217	7.60%	0.250%
306	15.598	15.592	15.604	HH	7750	55372	9.52%	0.313%
307	15.632	15.604	15.664	HH	13303	362332	62.26%	2.049%
308	15.672	15.664	15.692	HH	8852	144402	24.81%	0.817%
309	15.697	15.692	15.714	HH	8195	107120	18.41%	0.606%
310	15.779	15.714	15.803	HH	9497	456934	78.52%	2.585%
311	15.819	15.803	15.835	HH	9287	179844	30.90%	1.017%
312	15.860	15.835	15.880	HH	12768	288336	49.55%	1.631%
313	15.898	15.880	15.930	HH	10761	290507	49.92%	1.643%
314	15.945	15.930	15.962	HH	9700	183032	31.45%	1.035%
315	15.967	15.962	15.975	HH	9719	74378	12.78%	0.421%
316	16.022	15.975	16.059	HH	11869	531633	91.36%	3.007%
317	16.101	16.059	16.124	HH	10874	394259	67.75%	2.230%
318	16.148	16.124	16.159	HH	10271	211474	36.34%	1.196%
319	16.162	16.159	16.167	HH	10187	47203	8.11%	0.267%
320	16.187	16.167	16.201	HH	11110	220667	37.92%	1.248%
321	16.222	16.201	16.240	HH	11170	252718	43.43%	1.429%
322	16.254	16.240	16.258	HH	10911	116190	19.97%	0.657%
323	16.284	16.258	16.324	HH	12001	441016	75.78%	2.495%
					Sum of corrected areas:		17679486	

FG011325.M Fri Jan 31 06:27:14 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.4
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015265.D	10	01/30/25 09:15	01/30/25 20:31	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	74100		2020	18200	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.63		37 - 130	81%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015265.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 20:31
Operator : YP\AJ
Sample : Q1216-05 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-21.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:12:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.049	209530	1.633 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

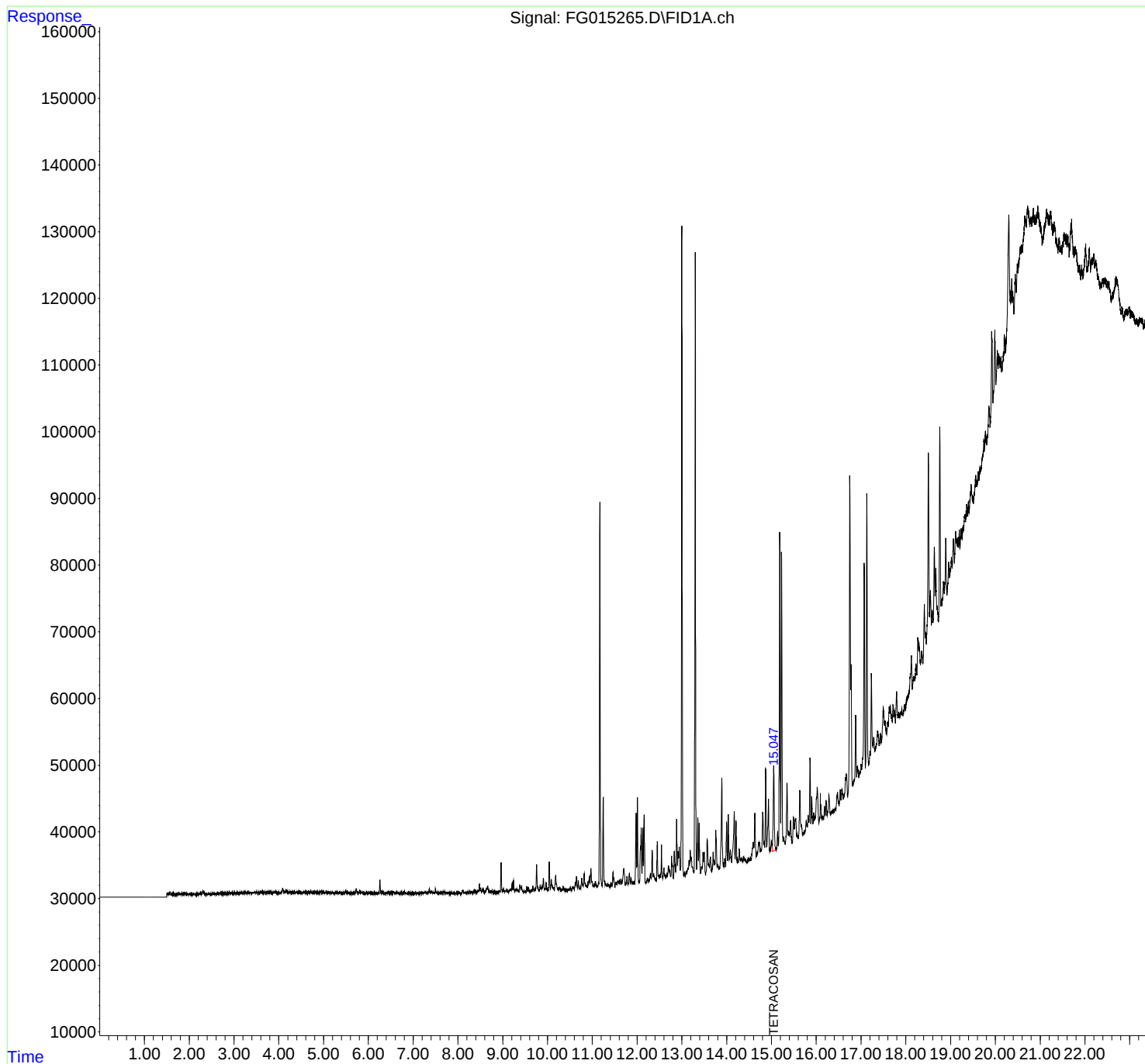
(m)=manual int.

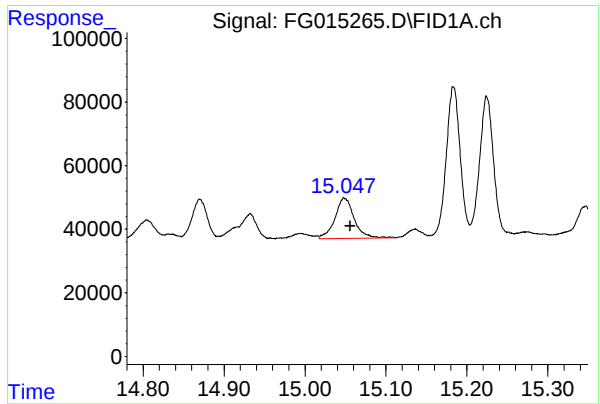
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015265.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 20:31
Operator : YP\AJ
Sample : Q1216-05 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-21.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:12:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.049 min
Delta R.T.: -0.008 min
Response: 209530
Conc: 1.63 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-21.1-012825

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015265.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 20:31
 Sample : Q1216-05 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.356	4.350	4.363	BH	95	399	0.03%	0.001%
2	4.375	4.363	4.389	PH	110	759	0.06%	0.003%
3	4.403	4.389	4.410	HH	127	732	0.06%	0.003%
4	4.415	4.410	4.420	PH	152	277	0.02%	0.001%
5	4.423	4.420	4.430	HH	80	261	0.02%	0.001%
6	4.436	4.430	4.440	PH	251	643	0.05%	0.002%
7	4.444	4.440	4.465	HH	102	643	0.05%	0.002%
8	4.470	4.465	4.485	HH	89	440	0.03%	0.002%
9	4.489	4.485	4.504	PH	39	31	0.00%	0.000%
10	4.510	4.504	4.526	PH	40	18	0.00%	0.000%
11	4.542	4.526	4.563	PH	109	1508	0.12%	0.005%
12	4.569	4.563	4.579	HH	146	902	0.07%	0.003%
13	4.579	4.579	4.586	HH	141	326	0.03%	0.001%
14	4.591	4.586	4.603	HH	111	535	0.04%	0.002%
15	4.612	4.603	4.644	PH	69	702	0.06%	0.002%
16	4.663	4.644	4.682	PH	125	1123	0.09%	0.004%
17	4.687	4.682	4.696	PH	91	368	0.03%	0.001%
18	4.711	4.696	4.735	HH	187	1830	0.15%	0.006%
19	4.740	4.735	4.755	PH	59	19	0.00%	0.000%
20	4.771	4.755	4.783	PH	122	575	0.05%	0.002%
21	4.786	4.783	4.793	PH	65	187	0.01%	0.001%
22	4.797	4.793	4.806	PH	79	325	0.03%	0.001%
23	4.815	4.806	4.823	PH	59	183	0.01%	0.001%
24	4.857	4.823	4.864	PH	117	1459	0.12%	0.005%
25	4.867	4.864	4.877	HH	126	594	0.05%	0.002%
26	4.881	4.877	4.893	PH	116	333	0.03%	0.001%
27	4.904	4.893	4.910	PH	96	480	0.04%	0.002%
28	4.914	4.910	4.918	HH	141	368	0.03%	0.001%
29	4.931	4.918	4.934	HH	138	938	0.07%	0.003%
30	4.939	4.934	4.953	HH	186	951	0.08%	0.003%
31	4.957	4.953	4.984	HH	136	1142	0.09%	0.004%
32	5.005	4.984	5.010	HH	115	828	0.07%	0.003%
33	5.013	5.010	5.018	PH	78	241	0.02%	0.001%
34	5.031	5.018	5.038	HH	59	619	0.05%	0.002%
35	5.042	5.038	5.049	PH	73	273	0.02%	0.001%
36	5.054	5.049	5.080	HH	122	554	0.04%	0.002%

					rteres			
37	5.084	5.080	5.088	PH	60	69	0.01%	0.000%
38	5.093	5.088	5.099	PH	24	-2	-0.00%	-0.000%
39	5.105	5.099	5.122	PH	28	-106	-0.01%	-0.000%
40	5.127	5.122	5.133	PH	53	-41	-0.00%	-0.000%
41	5.137	5.133	5.147	PH	36	-182	-0.01%	-0.001%
42	5.176	5.147	5.180	PH	36	-354	-0.03%	-0.001%
43	5.187	5.180	5.199	PH	77	1	0.00%	0.000%
44	5.203	5.199	5.217	PH	74	69	0.01%	0.000%
45	5.223	5.217	5.245	PH	29	-307	-0.02%	-0.001%
46	5.252	5.245	5.275	PH	-10	-318	-0.03%	-0.001%
47	5.279	5.275	5.291	PH	-6	-156	-0.01%	-0.001%
48	5.303	5.291	5.310	PH	76	-81	-0.01%	-0.000%
49	5.316	5.310	5.329	PH	33	-209	-0.02%	-0.001%
50	5.333	5.329	5.345	PH	17	-138	-0.01%	-0.000%
51	5.365	5.345	5.397	PH	115	660	0.05%	0.002%
52	5.399	5.397	5.408	PH	52	-175	-0.01%	-0.001%
53	5.411	5.408	5.414	PH	-17	-182	-0.01%	-0.001%
54	5.418	5.414	5.434	PH	-12	-571	-0.05%	-0.002%
55	5.446	5.434	5.451	PH	-3	-430	-0.03%	-0.001%
56	5.456	5.451	5.476	PH	11	-737	-0.06%	-0.003%
57	5.493	5.476	5.519	PH	332	2577	0.20%	0.009%
58	5.522	5.519	5.526	PH	6	-32	-0.00%	-0.000%
59	5.529	5.526	5.535	PH	20	-153	-0.01%	-0.001%
60	5.550	5.535	5.558	PH	42	-490	-0.04%	-0.002%
61	5.562	5.558	5.584	PH	-9	-948	-0.08%	-0.003%
62	5.587	5.584	5.605	PH	-35	-1162	-0.09%	-0.004%
63	5.617	5.605	5.621	PH	-18	-725	-0.06%	-0.003%
64	5.624	5.621	5.630	PH	-30	-318	-0.03%	-0.001%
65	5.640	5.630	5.648	PH	-6	-635	-0.05%	-0.002%
66	5.655	5.648	5.658	PH	-33	-358	-0.03%	-0.001%
67	5.662	5.658	5.670	PH	3	-409	-0.03%	-0.001%
68	5.692	5.670	5.697	PH	65	40	0.00%	0.000%
69	5.728	5.697	5.783	PH	631	5638	0.45%	0.020%
70	5.797	5.783	5.828	PH	163	1119	0.09%	0.004%
71	5.834	5.828	5.840	PH	50	-89	-0.01%	-0.000%
72	5.849	5.840	5.853	PH	37	-52	-0.00%	-0.000%
73	5.859	5.853	5.864	PH	88	7	0.00%	0.000%
74	5.872	5.864	5.900	PH	33	-185	-0.01%	-0.001%
75	5.904	5.900	5.931	PH	-24	-1047	-0.08%	-0.004%
76	5.941	5.931	5.971	PH	47	-530	-0.04%	-0.002%
77	5.979	5.971	5.990	PH	5	-282	-0.02%	-0.001%
78	5.998	5.990	6.008	PH	24	-303	-0.02%	-0.001%
79	6.014	6.008	6.031	PH	34	-615	-0.05%	-0.002%
80	6.035	6.031	6.048	PH	-75	-921	-0.07%	-0.003%
81	6.054	6.048	6.058	PH	-58	-391	-0.03%	-0.001%
82	6.067	6.058	6.095	PH	-0	-1361	-0.11%	-0.005%
83	6.099	6.095	6.109	PH	-7	-648	-0.05%	-0.002%
84	6.130	6.109	6.141	PH	-13	-1682	-0.13%	-0.006%
85	6.156	6.141	6.184	PH	-26	-1996	-0.16%	-0.007%
86	6.193	6.184	6.206	PH	-54	-1351	-0.11%	-0.005%
87	6.211	6.206	6.215	PH	-101	-557	-0.04%	-0.002%
88	6.259	6.215	6.301	PH	1864	19029	1.51%	0.066%
89	6.305	6.301	6.311	PH	62	123	0.01%	0.000%

					rteres			
90	6.314	6.311	6.325	PH	103	137	0.01%	0.000%
91	6.329	6.325	6.357	PH	6	-1324	-0.11%	-0.005%
92	6.380	6.357	6.400	PH	-28	-2013	-0.16%	-0.007%
93	6.402	6.400	6.416	PH	-41	-722	-0.06%	-0.003%
94	6.433	6.416	6.474	PH	76	-1273	-0.10%	-0.004%
95	6.491	6.474	6.499	PH	-3	-767	-0.06%	-0.003%
96	6.503	6.499	6.538	PH	7	-1156	-0.09%	-0.004%
97	6.564	6.538	6.587	PH	207	839	0.07%	0.003%
98	6.592	6.587	6.599	PH	-22	-397	-0.03%	-0.001%
99	6.604	6.599	6.621	PH	5	-395	-0.03%	-0.001%
100	6.627	6.621	6.630	PH	2	-233	-0.02%	-0.001%
101	6.637	6.630	6.642	PH	38	-244	-0.02%	-0.001%
102	6.646	6.642	6.696	PH	1	-2541	-0.20%	-0.009%
103	6.698	6.696	6.707	PH	-43	-518	-0.04%	-0.002%
104	6.728	6.707	6.779	PH	66	-2594	-0.21%	-0.009%
105	6.804	6.779	6.864	PH	188	-814	-0.06%	-0.003%
106	6.870	6.864	6.880	PH	-44	-725	-0.06%	-0.003%
107	6.883	6.880	6.898	PH	-88	-1146	-0.09%	-0.004%
108	6.903	6.898	6.911	PH	-72	-821	-0.07%	-0.003%
109	6.919	6.911	6.933	PH	-63	-1340	-0.11%	-0.005%
110	6.944	6.933	6.970	PH	-61	-2481	-0.20%	-0.009%
111	6.978	6.970	6.983	PH	-74	-802	-0.06%	-0.003%
112	7.009	6.983	7.019	PH	-43	-2285	-0.18%	-0.008%
113	7.023	7.019	7.039	PH	-100	-1323	-0.11%	-0.005%
114	7.046	7.039	7.066	PH	23	-1139	-0.09%	-0.004%
115	7.073	7.066	7.078	PH	-58	-613	-0.05%	-0.002%
116	7.085	7.078	7.107	PH	-64	-1734	-0.14%	-0.006%
117	7.130	7.107	7.151	PH	-1	-2571	-0.20%	-0.009%
118	7.166	7.151	7.173	PH	-38	-1245	-0.10%	-0.004%
119	7.179	7.173	7.195	PH	-39	-1075	-0.09%	-0.004%
120	7.198	7.195	7.204	PH	-73	-446	-0.04%	-0.002%
121	7.219	7.204	7.231	PH	37	-234	-0.02%	-0.001%
122	7.255	7.231	7.273	PH	107	256	0.02%	0.001%
123	7.281	7.273	7.297	PH	10	-151	-0.01%	-0.001%
124	7.300	7.297	7.316	PH	34	-175	-0.01%	-0.001%
125	7.319	7.316	7.337	PH	-11	-646	-0.05%	-0.002%
126	7.360	7.337	7.390	PH	631	5772	0.46%	0.020%
127	7.399	7.390	7.419	PH	113	642	0.05%	0.002%
128	7.424	7.419	7.441	PH	16	-155	-0.01%	-0.001%
129	7.456	7.441	7.471	PH	75	-296	-0.02%	-0.001%
130	7.498	7.471	7.522	PH	606	4741	0.38%	0.017%
131	7.540	7.522	7.551	PH	110	-86	-0.01%	-0.000%
132	7.556	7.551	7.566	PH	12	-180	-0.01%	-0.001%
133	7.572	7.566	7.588	PH	6	-336	-0.03%	-0.001%
134	7.623	7.588	7.636	PH	12	-1233	-0.10%	-0.004%
135	7.650	7.636	7.660	PH	36	-231	-0.02%	-0.001%
136	7.676	7.660	7.686	PH	145	969	0.08%	0.003%
137	7.699	7.686	7.731	PH	116	965	0.08%	0.003%
138	7.736	7.731	7.742	PH	-41	-264	-0.02%	-0.001%
139	7.747	7.742	7.779	PH	-16	-1483	-0.12%	-0.005%
140	7.794	7.779	7.814	PH	29	-1456	-0.12%	-0.005%
141	7.819	7.814	7.829	PH	-50	-833	-0.07%	-0.003%

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142	7.832	7.829	7.836	PH	0	-383	-0.03%	-0.001%
143	7.855	7.836	7.876	PH	-30	-1831	-0.15%	-0.006%
144	7.880	7.876	7.885	PH	-36	-519	-0.04%	-0.002%
145	7.897	7.885	7.909	PH	-55	-1299	-0.10%	-0.005%
146	7.924	7.909	7.947	PH	-34	-2077	-0.17%	-0.007%
147	7.950	7.947	7.956	PH	-104	-491	-0.04%	-0.002%
148	7.965	7.956	7.978	PH	-37	-956	-0.08%	-0.003%
149	7.985	7.978	7.991	PH	-56	-702	-0.06%	-0.002%
150	8.013	7.991	8.023	PH	-41	-1988	-0.16%	-0.007%
151	8.029	8.023	8.042	PH	28	-692	-0.05%	-0.002%
152	8.044	8.042	8.064	PH	-23	-1311	-0.10%	-0.005%
153	8.069	8.064	8.079	PH	-127	-1110	-0.09%	-0.004%
154	8.105	8.079	8.131	PH	307	3007	0.24%	0.010%
155	8.139	8.131	8.148	PH	78	-10	-0.00%	-0.000%
156	8.166	8.148	8.191	PH	74	-79	-0.01%	-0.000%
157	8.209	8.191	8.227	PH	34	-661	-0.05%	-0.002%
158	8.260	8.227	8.280	PH	254	2598	0.21%	0.009%
159	8.291	8.280	8.301	HH	74	693	0.06%	0.002%
160	8.303	8.301	8.329	HH	79	156	0.01%	0.001%
161	8.332	8.329	8.339	PH	38	26	0.00%	0.000%
162	8.359	8.339	8.366	PH	355	2844	0.23%	0.010%
163	8.375	8.366	8.399	HH	364	4240	0.34%	0.015%
164	8.439	8.399	8.451	PH	251	3698	0.29%	0.013%
165	8.454	8.451	8.462	HH	297	1628	0.13%	0.006%
166	8.480	8.462	8.497	HH	1250	14777	1.17%	0.051%
167	8.508	8.497	8.526	HH	665	7398	0.59%	0.026%
168	8.558	8.526	8.586	HH	598	11485	0.91%	0.040%
169	8.590	8.586	8.594	HH	124	564	0.04%	0.002%
170	8.597	8.594	8.606	HH	127	624	0.05%	0.002%
171	8.666	8.606	8.703	HH	944	23943	1.90%	0.083%
172	8.717	8.703	8.742	HH	260	3762	0.30%	0.013%
173	8.759	8.742	8.789	HH	324	3401	0.27%	0.012%
174	8.807	8.789	8.832	PH	169	1009	0.08%	0.004%
175	8.836	8.832	8.843	PH	25	-24	-0.00%	-0.000%
176	8.849	8.843	8.869	PH	17	-218	-0.02%	-0.001%
177	8.873	8.869	8.881	PH	1	-107	-0.01%	-0.000%
178	8.922	8.881	8.939	PH	270	3608	0.29%	0.013%
179	8.965	8.939	8.999	HH	4540	50074	3.98%	0.174%
180	9.015	8.999	9.051	HH	584	10551	0.84%	0.037%
181	9.082	9.051	9.124	HH	451	12173	0.97%	0.042%
182	9.168	9.124	9.183	HH	468	10976	0.87%	0.038%
183	9.210	9.183	9.227	HH	1491	20850	1.66%	0.073%
184	9.242	9.227	9.268	HH	1850	23055	1.83%	0.080%
185	9.283	9.268	9.292	HH	490	5605	0.45%	0.020%
186	9.304	9.292	9.322	HH	528	7804	0.62%	0.027%
187	9.330	9.322	9.356	HH	448	6564	0.52%	0.023%
188	9.387	9.356	9.409	HH	1111	21245	1.69%	0.074%
189	9.422	9.409	9.439	HH	1023	12712	1.01%	0.044%
190	9.445	9.439	9.471	HH	354	4415	0.35%	0.015%
191	9.475	9.471	9.481	HH	182	965	0.08%	0.003%
192	9.485	9.481	9.511	HH	157	2272	0.18%	0.008%
193	9.539	9.511	9.554	HH	910	12265	0.97%	0.043%
194	9.571	9.554	9.590	HH	813	10439	0.83%	0.036%

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195	9.594	9.590	9.598	HH	250	1047	0.08%	0.004%
196	9.601	9.598	9.612	HH	226	1493	0.12%	0.005%
197	9.621	9.612	9.640	HH	360	4124	0.33%	0.014%
198	9.675	9.640	9.698	HH	1012	16734	1.33%	0.058%
199	9.720	9.698	9.735	HH	711	9994	0.79%	0.035%
200	9.758	9.735	9.815	HH	4241	62984	5.01%	0.219%
201	9.838	9.815	9.865	HH	1132	20799	1.65%	0.072%
202	9.880	9.865	9.892	HH	1027	12733	1.01%	0.044%
203	9.910	9.892	9.931	HH	2182	30527	2.43%	0.106%
204	9.941	9.931	9.949	HH	619	6190	0.49%	0.022%
205	9.969	9.949	10.015	HH	1477	28382	2.26%	0.099%
206	10.040	10.015	10.064	HH	4650	56523	4.49%	0.197%
207	10.084	10.064	10.127	HH	1903	40859	3.25%	0.142%
208	10.137	10.127	10.154	HH	754	9835	0.78%	0.034%
209	10.182	10.154	10.230	HH	2523	58153	4.62%	0.203%
210	10.247	10.230	10.271	HH	715	14436	1.15%	0.050%
211	10.279	10.271	10.313	HH	757	12354	0.98%	0.043%
212	10.328	10.313	10.335	HH	478	5745	0.46%	0.020%
213	10.352	10.335	10.407	HH	745	20706	1.65%	0.072%
214	10.447	10.407	10.456	HH	487	10013	0.80%	0.035%
215	10.457	10.456	10.468	HH	411	2727	0.22%	0.009%
216	10.474	10.468	10.478	HH	422	2492	0.20%	0.009%
217	10.483	10.478	10.489	HH	481	2668	0.21%	0.009%
218	10.511	10.489	10.541	HH	864	17935	1.43%	0.062%
219	10.562	10.541	10.599	HH	874	22421	1.78%	0.078%
220	10.621	10.599	10.630	HH	1459	21022	1.67%	0.073%
221	10.646	10.630	10.671	HH	2415	38928	3.09%	0.136%
222	10.689	10.671	10.727	HH	1809	34057	2.71%	0.119%
223	10.765	10.727	10.801	HH	2144	53349	4.24%	0.186%
224	10.819	10.801	10.861	HH	2871	59571	4.73%	0.207%
225	10.866	10.861	10.884	HH	1053	13240	1.05%	0.046%
226	10.936	10.884	10.950	HH	2406	62242	4.95%	0.217%
227	10.971	10.950	10.992	HH	3603	61775	4.91%	0.215%
228	10.997	10.992	11.031	HH	1584	27752	2.21%	0.097%
229	11.047	11.031	11.051	HH	1252	14286	1.14%	0.050%
230	11.069	11.051	11.086	HH	1660	27298	2.17%	0.095%
231	11.096	11.086	11.122	HH	1109	21168	1.68%	0.074%
232	11.137	11.122	11.145	HH	1528	17891	1.42%	0.062%
233	11.170	11.145	11.220	HH	58610	651420	51.77%	2.269%
234	11.245	11.220	11.289	HH	14351	193664	15.39%	0.674%
235	11.301	11.289	11.329	HH	1231	27251	2.17%	0.095%
236	11.349	11.329	11.372	HH	1345	28934	2.30%	0.101%
237	11.386	11.372	11.404	HH	1122	19690	1.56%	0.069%
238	11.422	11.404	11.442	HH	1392	27123	2.16%	0.094%
239	11.462	11.442	11.505	HH	3057	69214	5.50%	0.241%
240	11.532	11.505	11.547	HH	1501	32078	2.55%	0.112%
241	11.567	11.547	11.585	HH	1773	35473	2.82%	0.124%
242	11.627	11.585	11.648	HH	1980	61055	4.85%	0.213%
243	11.702	11.648	11.744	HH	3585	125431	9.97%	0.437%
244	11.775	11.744	11.796	HH	2397	53316	4.24%	0.186%
245	11.828	11.796	11.851	HH	2884	61366	4.88%	0.214%
246	11.867	11.851	11.889	HH	2330	41011	3.26%	0.143%

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247	11.904	11.889	11.922	HH	1533	29216	2.32%	0.102%
248	11.928	11.922	11.945	HH	1658	20609	1.64%	0.072%
249	11.978	11.945	11.992	HH	11885	155368	12.35%	0.541%
250	12.008	11.992	12.049	HH	14213	191985	15.26%	0.669%
251	12.092	12.049	12.109	HH	9777	198524	15.78%	0.691%
252	12.127	12.109	12.141	HH	9626	119318	9.48%	0.416%
253	12.157	12.141	12.194	HH	11535	169516	13.47%	0.590%
254	12.206	12.194	12.211	HH	1632	15564	1.24%	0.054%
255	12.235	12.211	12.256	HH	2135	51492	4.09%	0.179%
256	12.298	12.256	12.317	HH	2827	81089	6.44%	0.282%
257	12.337	12.317	12.359	HH	6217	98162	7.80%	0.342%
258	12.369	12.359	12.409	HH	2755	69902	5.56%	0.243%
259	12.418	12.409	12.427	HH	2001	21248	1.69%	0.074%
260	12.451	12.427	12.474	HH	7712	119679	9.51%	0.417%
261	12.481	12.474	12.494	HH	2631	29848	2.37%	0.104%
262	12.511	12.494	12.526	HH	2696	46703	3.71%	0.163%
263	12.545	12.526	12.572	HH	7221	115025	9.14%	0.401%
264	12.599	12.572	12.617	HH	3727	76875	6.11%	0.268%
265	12.629	12.617	12.646	HH	2628	42474	3.38%	0.148%
266	12.661	12.646	12.671	HH	2644	36717	2.92%	0.128%
267	12.702	12.671	12.717	HH	4000	89194	7.09%	0.311%
268	12.726	12.717	12.749	HH	3407	57568	4.58%	0.200%
269	12.772	12.749	12.809	HH	5409	132147	10.50%	0.460%
270	12.831	12.809	12.860	HH	6196	126192	10.03%	0.440%
271	12.883	12.860	12.901	HH	11008	169285	13.45%	0.590%
272	12.917	12.901	12.929	HH	6186	90733	7.21%	0.316%
273	12.944	12.929	12.965	HH	6883	113940	9.06%	0.397%
274	12.998	12.965	13.044	HH	99954	1200473	95.41%	4.181%
275	13.061	13.044	13.079	HH	3119	57580	4.58%	0.201%
276	13.097	13.079	13.110	HH	3235	54440	4.33%	0.190%
277	13.132	13.110	13.142	HH	3675	65286	5.19%	0.227%
278	13.159	13.142	13.172	HH	4840	76970	6.12%	0.268%
279	13.185	13.172	13.199	HH	6370	87990	6.99%	0.306%
280	13.208	13.199	13.269	HH	5355	168849	13.42%	0.588%
281	13.298	13.269	13.326	HH	94973	1069810	85.02%	3.726%
282	13.355	13.326	13.370	HH	11175	180218	14.32%	0.628%
283	13.386	13.370	13.417	HH	10392	171923	13.66%	0.599%
284	13.439	13.417	13.452	HH	3970	75654	6.01%	0.263%
285	13.472	13.452	13.486	HH	6067	98649	7.84%	0.344%
286	13.499	13.486	13.529	HH	6065	115593	9.19%	0.403%
287	13.566	13.529	13.594	HH	7922	192447	15.29%	0.670%
288	13.597	13.594	13.614	HH	4143	47480	3.77%	0.165%
289	13.636	13.614	13.666	HH	5369	132364	10.52%	0.461%
290	13.698	13.666	13.714	HH	6076	130911	10.40%	0.456%
291	13.725	13.714	13.736	HH	4626	58208	4.63%	0.203%
292	13.759	13.736	13.796	HH	9351	218319	17.35%	0.760%
293	13.803	13.796	13.829	HH	4134	76358	6.07%	0.266%
294	13.889	13.829	13.929	HH	17248	441487	35.09%	1.538%
295	13.956	13.929	13.974	HH	5046	119043	9.46%	0.415%
296	13.998	13.974	14.019	HH	10557	190365	15.13%	0.663%
297	14.036	14.019	14.058	HH	11682	184546	14.67%	0.643%
298	14.081	14.058	14.112	HH	6386	178646	14.20%	0.622%
299	14.167	14.112	14.189	HH	11959	351911	27.97%	1.226%

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300	14.208	14.189	14.254	HH	10797	253792	20.17%	0.884%
301	14.281	14.254	14.307	HH	6511	172901	13.74%	0.602%
302	14.323	14.307	14.344	HH	5155	110108	8.75%	0.383%
303	14.346	14.344	14.357	HH	4869	38481	3.06%	0.134%
304	14.374	14.357	14.394	HH	5438	112686	8.96%	0.392%
305	14.399	14.394	14.406	HH	4999	34120	2.71%	0.119%
306	14.417	14.406	14.432	HH	5063	78104	6.21%	0.272%
307	14.438	14.432	14.462	HH	4696	82017	6.52%	0.286%
308	14.478	14.462	14.502	HH	5185	118584	9.42%	0.413%
309	14.531	14.502	14.549	HH	5174	137710	10.94%	0.480%
310	14.587	14.549	14.607	HH	7494	231910	18.43%	0.808%
311	14.628	14.607	14.664	HH	11883	267260	21.24%	0.931%
312	14.679	14.664	14.687	HH	5848	81041	6.44%	0.282%
313	14.711	14.687	14.726	HH	7439	160504	12.76%	0.559%
314	14.732	14.726	14.759	HH	7584	136719	10.87%	0.476%
315	14.805	14.759	14.827	HH	12038	342163	27.19%	1.192%
316	14.832	14.827	14.847	HH	7639	85651	6.81%	0.298%
317	14.870	14.847	14.894	HH	18476	332689	26.44%	1.159%
318	14.932	14.894	14.962	HH	14039	380987	30.28%	1.327%
319	14.995	14.962	15.017	HH	7771	228623	18.17%	0.796%
320	15.049	15.017	15.092	HH	18870	492296	39.12%	1.715%
321	15.097	15.092	15.112	HH	6762	79846	6.35%	0.278%
322	15.136	15.112	15.154	HH	9155	193107	15.35%	0.673%
323	15.184	15.154	15.204	HH	53756	769702	61.17%	2.681%
324	15.225	15.204	15.259	HH	51027	757052	60.17%	2.637%
325	15.275	15.259	15.306	HH	8345	221559	17.61%	0.772%
326	15.346	15.306	15.373	HH	16365	429847	34.16%	1.497%
327	15.380	15.373	15.402	HH	8965	151362	12.03%	0.527%
328	15.426	15.402	15.465	HH	10847	338917	26.94%	1.180%
329	15.489	15.465	15.511	HH	11292	270616	21.51%	0.943%
330	15.540	15.511	15.592	HH	11107	465740	37.01%	1.622%
331	15.632	15.592	15.660	HH	15346	448259	35.63%	1.561%
332	15.669	15.660	15.694	HH	10148	195759	15.56%	0.682%
333	15.709	15.694	15.715	HH	9000	114547	9.10%	0.399%
334	15.736	15.715	15.747	HH	9304	174645	13.88%	0.608%
335	15.777	15.747	15.795	HH	10740	284448	22.61%	0.991%
336	15.799	15.795	15.804	HH	10011	55863	4.44%	0.195%
337	15.820	15.804	15.835	HH	11571	204664	16.27%	0.713%
338	15.860	15.835	15.880	HH	19847	387167	30.77%	1.348%
339	15.898	15.880	15.925	HH	14458	328690	26.12%	1.145%
340	15.944	15.925	15.958	HH	12013	223978	17.80%	0.780%
341	15.967	15.958	15.974	HH	11324	104527	8.31%	0.364%
342	16.022	15.974	16.058	HH	15702	660801	52.52%	2.301%
343	16.100	16.058	16.128	HH	13178	494396	39.29%	1.722%
344	16.153	16.128	16.164	HH	11390	238163	18.93%	0.829%
345	16.184	16.164	16.199	HH	12863	256544	20.39%	0.893%
346	16.219	16.199	16.241	HH	13831	313804	24.94%	1.093%
347	16.282	16.241	16.319	HH	14643	598892	47.60%	2.086%
348	16.362	16.319	16.377	HH	12288	422080	33.54%	1.470%
349	16.393	16.377	16.401	HH	12388	172649	13.72%	0.601%
350	16.476	16.401	16.491	HH	14929	722258	57.40%	2.515%
351	16.501	16.491	16.511	HH	13731	158401	12.59%	0.552%

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352	16.534	16.511	16.552	HH	15443	352459	28.01%	1.228%
353	16.577	16.552	16.601	HH	15569	435089	34.58%	1.515%
354	16.617	16.601	16.622	HH	14775	183560	14.59%	0.639%
355	16.676	16.622	16.702	HH	17685	776218	61.69%	2.703%
356	16.749	16.702	16.768	HH	62458	1258269	100.00%	4.382%
357	16.777	16.768	16.824	HH	34304	736304	58.52%	2.564%
					Sum of corrected areas:	28712366		

FG011325.M Fri Jan 31 06:29:24 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84.3
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015266.D	10	01/30/25 09:15	01/30/25 21:00	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	69000		2190	19700	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.23		37 - 130	62%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015266.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 21:00
Operator : YP\AJ
Sample : Q1216-09 10X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-21.2-012825

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
Quant Time: Jan 31 05:13:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.049	157590	1.229 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015266.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 21:00
Operator : YP\AJ
Sample : Q1216-09 10X
Misc :
ALS Vial : 29 Sample Multiplier: 1

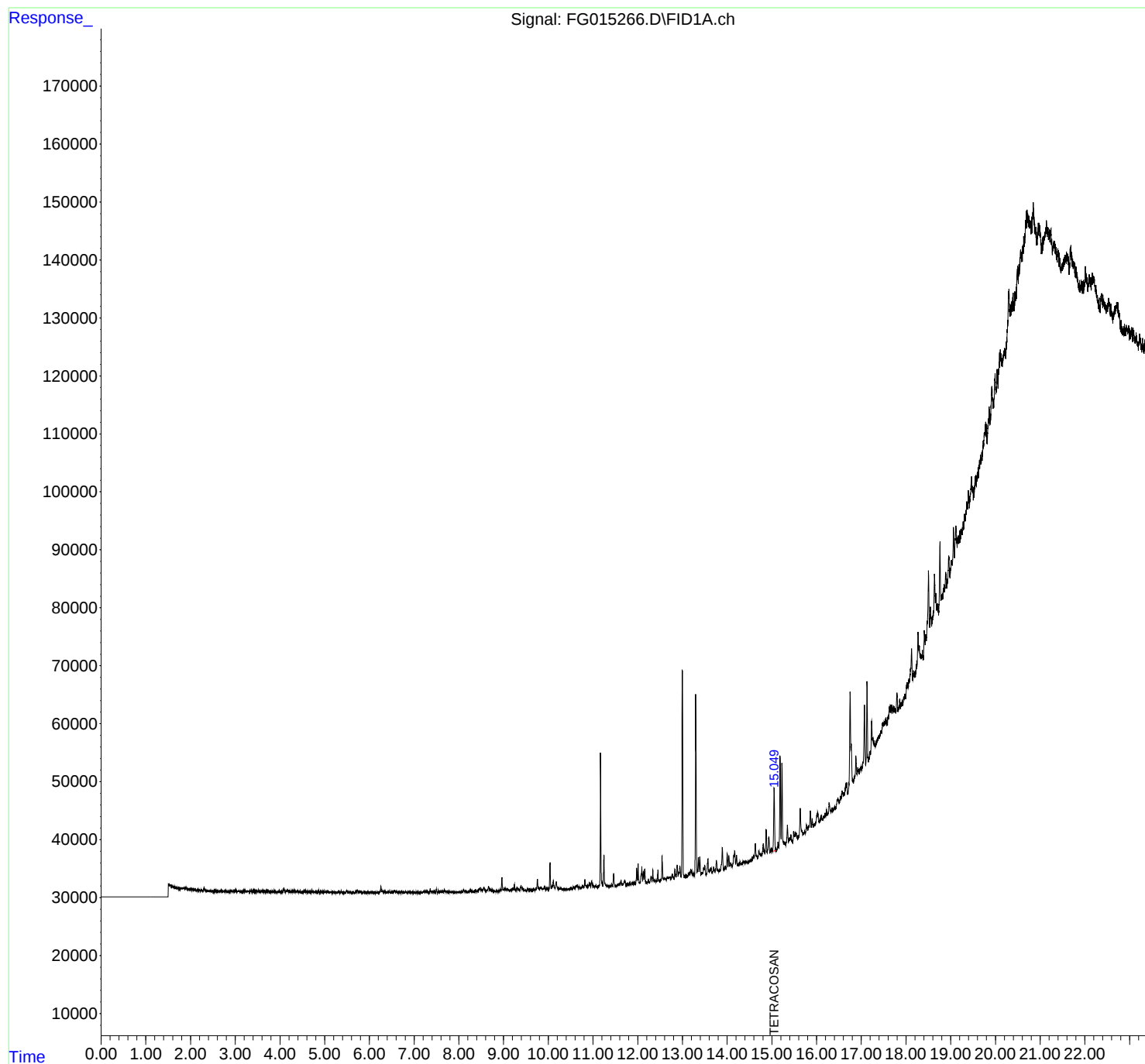
Instrument :
FID_G
ClientSampleId :
JPP-21.2-012825

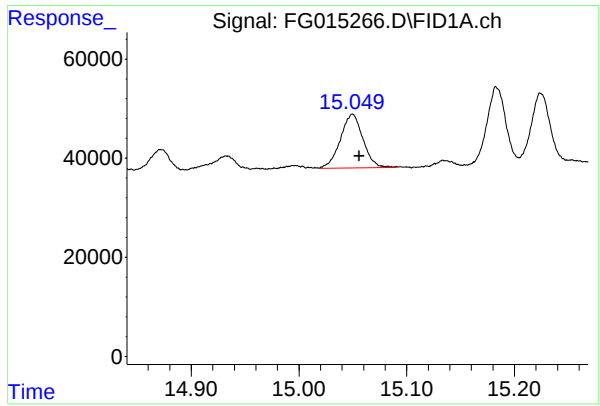
Manual Integrations
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Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
Quant Time: Jan 31 05:13:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.049 min
Delta R.T.: -0.007 min
Response: 157590
Conc: 1.23 ug/ml

Instrument :

FID_G

ClientSampleId :

JPP-21.2-012825

Manual Integrations

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rteres

Instrument :

FID_G

ClientSampleId :

JPP-21.2-012825

Area Percent Report

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Supervised By :Ankita Jodhani 01/31/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG01302
Data File : FG015266.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 21:00
Sample : Q1216-09 10X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.379	4.350	4.385	BH	-8	-167	-0.02%	-0.001%
2	4.389	4.385	4.400	PH	-1	-391	-0.04%	-0.002%
3	4.404	4.400	4.419	PH	29	-588	-0.06%	-0.002%
4	4.425	4.419	4.431	PH	25	-337	-0.04%	-0.001%
5	4.461	4.431	4.477	PH	3	-1859	-0.20%	-0.008%
6	4.487	4.477	4.513	PH	-22	-1886	-0.20%	-0.008%
7	4.518	4.513	4.522	PH	-103	-549	-0.06%	-0.002%
8	4.544	4.522	4.555	PH	48	-456	-0.05%	-0.002%
9	4.576	4.555	4.606	PH	52	-1019	-0.11%	-0.004%
10	4.613	4.606	4.622	PH	-18	-689	-0.07%	-0.003%
11	4.627	4.622	4.634	PH	6	-520	-0.05%	-0.002%
12	4.641	4.634	4.646	PH	-20	-597	-0.06%	-0.002%
13	4.658	4.646	4.679	PH	26	-908	-0.10%	-0.004%
14	4.713	4.679	4.728	PH	108	-1583	-0.17%	-0.006%
15	4.731	4.728	4.753	PH	-65	-1435	-0.15%	-0.006%
16	4.770	4.753	4.776	PH	1	-879	-0.09%	-0.004%
17	4.783	4.776	4.807	PH	-15	-1551	-0.16%	-0.006%
18	4.820	4.807	4.842	PH	-39	-2370	-0.25%	-0.010%
19	4.845	4.842	4.850	PH	-78	-511	-0.05%	-0.002%
20	4.863	4.850	4.895	PH	212	-2285	-0.24%	-0.009%
21	4.899	4.895	4.904	PH	-85	-647	-0.07%	-0.003%
22	4.925	4.904	4.947	PH	-26	-2320	-0.25%	-0.009%
23	4.959	4.947	4.968	PH	-10	-1242	-0.13%	-0.005%
24	4.984	4.968	5.009	PH	-6	-1620	-0.17%	-0.007%
25	5.015	5.009	5.035	PH	-10	-1082	-0.11%	-0.004%
26	5.044	5.035	5.066	PH	-43	-1524	-0.16%	-0.006%
27	5.076	5.066	5.092	PH	-77	-1895	-0.20%	-0.008%
28	5.095	5.092	5.116	PH	-95	-2051	-0.22%	-0.008%
29	5.120	5.116	5.128	PH	-91	-1034	-0.11%	-0.004%
30	5.132	5.128	5.140	PH	-148	-1216	-0.13%	-0.005%
31	5.146	5.140	5.152	PH	-128	-1101	-0.12%	-0.004%
32	5.185	5.152	5.192	PH	-46	-3755	-0.40%	-0.015%
33	5.197	5.192	5.223	PH	-84	-2851	-0.30%	-0.012%
34	5.232	5.223	5.240	PH	-89	-1430	-0.15%	-0.006%
35	5.250	5.240	5.266	PH	-119	-2544	-0.27%	-0.010%
36	5.273	5.266	5.296	PH	-107	-2491	-0.26%	-0.010%

37	5.300	5.296	5.314	PH	-70	-1469	-0.16%	-0.006%
38	5.320	5.314	5.327	PH	-102	-998	-0.16%	-0.006%
39	5.338	5.327	5.347	PH	-75	-1710	-0.16%	-0.006%
40	5.361	5.347	5.397	PH	11	-3295	-0.16%	-0.006%
41	5.400	5.397	5.410	PH	-147	-1431	-0.16%	-0.006%
42	5.420	5.410	5.450	PH	-127	-4543	-0.16%	-0.006%
43	5.455	5.450	5.461	PH	-159	-1225	-0.13%	-0.005%
44	5.492	5.461	5.517	PH	209	-1744	-0.18%	-0.007%
45	5.526	5.517	5.550	PH	-86	-2938	-0.31%	-0.012%
46	5.560	5.550	5.566	PH	-119	-1431	-0.15%	-0.006%
47	5.568	5.566	5.589	PH	-103	-2424	-0.26%	-0.010%
48	5.595	5.589	5.609	PH	-157	-2574	-0.27%	-0.010%
49	5.618	5.609	5.635	PH	-173	-3287	-0.35%	-0.013%
50	5.639	5.635	5.648	PH	-178	-1586	-0.17%	-0.006%
51	5.652	5.648	5.665	PH	-155	-2255	-0.24%	-0.009%
52	5.690	5.665	5.716	PH	-19	-3819	-0.40%	-0.015%
53	5.730	5.716	5.777	PH	309	53	0.01%	0.000%
54	5.804	5.777	5.820	PH	-32	-3299	-0.35%	-0.013%
55	5.826	5.820	5.836	PH	-129	-1721	-0.18%	-0.007%
56	5.845	5.836	5.863	PH	-129	-2836	-0.30%	-0.011%
57	5.879	5.863	5.902	PH	-55	-2837	-0.30%	-0.011%
58	5.929	5.902	5.940	PH	-139	-4240	-0.45%	-0.017%
59	5.951	5.940	5.956	PH	-85	-1064	-0.11%	-0.004%
60	5.959	5.956	5.982	PH	-65	-2462	-0.26%	-0.010%
61	6.006	5.982	6.023	PH	-95	-3182	-0.34%	-0.013%
62	6.027	6.023	6.031	PH	-121	-758	-0.08%	-0.003%
63	6.035	6.031	6.045	PH	-117	-1416	-0.15%	-0.006%
64	6.059	6.045	6.091	PH	-98	-4548	-0.48%	-0.018%
65	6.100	6.091	6.120	PH	-126	-3002	-0.32%	-0.012%
66	6.126	6.120	6.132	PH	-108	-1016	-0.11%	-0.004%
67	6.138	6.132	6.144	PH	-129	-1227	-0.13%	-0.005%
68	6.165	6.144	6.212	PH	-105	-6669	-0.70%	-0.027%
69	6.229	6.212	6.236	PH	-59	-1583	-0.17%	-0.006%
70	6.258	6.236	6.297	PH	922	7843	0.83%	0.032%
71	6.300	6.297	6.304	PH	-8	-203	-0.02%	-0.001%
72	6.307	6.304	6.317	PH	-5	-517	-0.05%	-0.002%
73	6.321	6.317	6.326	PH	-52	-417	-0.04%	-0.002%
74	6.329	6.326	6.352	PH	-63	-2106	-0.22%	-0.009%
75	6.366	6.352	6.385	PH	-67	-2750	-0.29%	-0.011%
76	6.389	6.385	6.402	PH	-125	-1587	-0.17%	-0.006%
77	6.435	6.402	6.478	PH	87	-4167	-0.44%	-0.017%
78	6.490	6.478	6.503	PH	-54	-1993	-0.21%	-0.008%
79	6.508	6.503	6.531	PH	-86	-2125	-0.22%	-0.009%
80	6.538	6.531	6.543	PH	-123	-1167	-0.12%	-0.005%
81	6.564	6.543	6.595	PH	210	-412	-0.04%	-0.002%
82	6.609	6.595	6.622	PH	-46	-1298	-0.14%	-0.005%
83	6.629	6.622	6.635	PH	-35	-704	-0.07%	-0.003%
84	6.642	6.635	6.647	PH	-55	-658	-0.07%	-0.003%
85	6.651	6.647	6.660	PH	-82	-1012	-0.11%	-0.004%
86	6.666	6.660	6.678	PH	-100	-1427	-0.15%	-0.006%
87	6.684	6.678	6.693	PH	-103	-1258	-0.13%	-0.005%
88	6.725	6.693	6.742	PH	82	-3006	-0.32%	-0.012%
89	6.756	6.742	6.774	PH	-144	-3686	-0.39%	-0.015%

Instrument :

FID_G

ClientSampleId :

JPP-21.2-012825

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/31/2025

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90	6.806	6.774	6.855	PH	83	-6048	-0.64%	-0.024%
91	6.857	6.855	6.861	PH	-147	-623	-0.02%	-0.001%
92	6.875	6.861	6.911	PH	-59	-3956	-0.01%	-0.001%
93	6.915	6.911	6.972	PH	-118	-6540	-0.01%	-0.001%
94	6.980	6.972	7.025	PH	-103	-5931	-0.01%	-0.001%
95	7.033	7.025	7.037	PH	-201	-1516	-0.01%	-0.001%
96	7.050	7.037	7.076	PH	-101	-3993	-0.42%	-0.016%
97	7.079	7.076	7.107	PH	-181	-3972	-0.42%	-0.016%
98	7.117	7.107	7.134	PH	-127	-2860	-0.30%	-0.012%
99	7.139	7.134	7.148	PH	-151	-1524	-0.16%	-0.006%
100	7.155	7.148	7.179	PH	-143	-3169	-0.33%	-0.013%
101	7.185	7.179	7.197	PH	-126	-1778	-0.19%	-0.007%
102	7.221	7.197	7.244	PH	35	-1196	-0.13%	-0.005%
103	7.261	7.244	7.269	PH	53	59	0.01%	0.000%
104	7.275	7.269	7.287	PH	20	-405	-0.04%	-0.002%
105	7.298	7.287	7.325	PH	7	-1313	-0.14%	-0.005%
106	7.331	7.325	7.333	PH	-97	-662	-0.07%	-0.003%
107	7.359	7.333	7.382	PH	460	2508	0.26%	0.010%
108	7.405	7.382	7.420	PH	34	-774	-0.08%	-0.003%
109	7.428	7.420	7.439	PH	17	-591	-0.06%	-0.002%
110	7.447	7.439	7.478	PH	63	-1055	-0.11%	-0.004%
111	7.497	7.478	7.517	PH	404	1599	0.17%	0.006%
112	7.542	7.517	7.558	PH	139	-640	-0.07%	-0.003%
113	7.568	7.558	7.601	PH	-24	-1919	-0.20%	-0.008%
114	7.621	7.601	7.644	PH	33	-1065	-0.11%	-0.004%
115	7.675	7.644	7.692	PH	234	1238	0.13%	0.005%
116	7.695	7.692	7.700	PH	26	99	0.01%	0.000%
117	7.705	7.700	7.713	HH	29	128	0.01%	0.001%
118	7.718	7.713	7.731	PH	-23	-602	-0.06%	-0.002%
119	7.744	7.731	7.760	PH	-24	-1345	-0.14%	-0.005%
120	7.764	7.760	7.767	PH	-97	-500	-0.05%	-0.002%
121	7.771	7.767	7.777	PH	-80	-722	-0.08%	-0.003%
122	7.787	7.777	7.795	PH	-56	-1065	-0.11%	-0.004%
123	7.805	7.795	7.839	PH	-63	-2398	-0.25%	-0.010%
124	7.846	7.839	7.882	PH	-53	-2889	-0.31%	-0.012%
125	7.887	7.882	7.894	PH	-124	-1067	-0.11%	-0.004%
126	7.899	7.894	7.913	PH	-75	-1682	-0.18%	-0.007%
127	7.920	7.913	7.935	PH	-152	-2073	-0.22%	-0.008%
128	7.941	7.935	7.945	PH	-106	-881	-0.09%	-0.004%
129	7.968	7.945	7.997	PH	-79	-3729	-0.39%	-0.015%
130	8.004	7.997	8.034	PH	-57	-2611	-0.28%	-0.011%
131	8.051	8.034	8.075	PH	-22	-2609	-0.28%	-0.011%
132	8.102	8.075	8.135	PH	301	2614	0.28%	0.011%
133	8.141	8.135	8.164	PH	52	-170	-0.02%	-0.001%
134	8.175	8.164	8.181	PH	2	-476	-0.05%	-0.002%
135	8.210	8.181	8.222	PH	1	-1437	-0.15%	-0.006%
136	8.226	8.222	8.239	PH	-19	-202	-0.02%	-0.001%
137	8.259	8.239	8.273	PH	148	848	0.09%	0.003%
138	8.284	8.273	8.315	PH	109	508	0.05%	0.002%
139	8.322	8.315	8.344	PH	67	-225	-0.02%	-0.001%
140	8.360	8.344	8.365	PH	187	1164	0.12%	0.005%
141	8.377	8.365	8.407	HH	286	2664	0.28%	0.011%

Instrument :

FID_G

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JPP-21.2-012825

Manual IntegrationsAPPROVED

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142	8.412	8.407	8.419	PH	15	-46	-0.00%	-0.000%
143	8.451	8.419	8.464	PH	448	6592	0.00%	0.000%
144	8.479	8.464	8.496	HH	665	8161	0.00%	0.000%
145	8.507	8.496	8.528	HH	431	4583	0.00%	0.000%
146	8.560	8.528	8.616	HH	795	15963	1.66%	0.064%
147	8.644	8.616	8.649	HH	331	4399	0.52%	0.020%
148	8.666	8.649	8.708	HH	899	15703	0.22%	0.009%
149	8.719	8.708	8.747	HH	329	4892	0.04%	0.001%
150	8.761	8.747	8.790	HH	185	2114	0.05%	0.002%
151	8.792	8.790	8.808	HH	55	351	0.02%	0.001%
152	8.815	8.808	8.832	PH	69	430	0.01%	0.000%
153	8.836	8.832	8.862	PH	50	193	0.09%	0.003%
154	8.874	8.862	8.878	PH	79	101	0.49%	0.019%
155	8.889	8.878	8.900	HH	82	822	3.20%	0.123%
156	8.920	8.900	8.942	HH	294	4633	0.93%	0.036%
157	8.965	8.942	8.999	HH	2375	30323	0.45%	0.017%
158	9.017	8.999	9.038	HH	492	8778	0.23%	0.009%
159	9.040	9.038	9.059	HH	407	4296	1.08%	0.041%
160	9.063	9.059	9.072	HH	297	2168	0.39%	0.015%
161	9.084	9.072	9.127	HH	413	10195	0.32%	0.012%
162	9.151	9.127	9.155	HH	291	3713	0.28%	0.011%
163	9.168	9.155	9.178	HH	266	3061	0.94%	0.036%
164	9.189	9.178	9.193	HH	364	2645	1.78%	0.068%
165	9.211	9.193	9.227	HH	636	8857	1.49%	0.057%
166	9.243	9.227	9.277	HH	1253	16882	0.29%	0.011%
167	9.307	9.277	9.332	HH	670	14140	0.11%	0.004%
168	9.338	9.332	9.350	HH	301	2769	1.92%	0.073%
169	9.353	9.350	9.359	HH	208	1026	1.27%	0.049%
170	9.390	9.359	9.412	HH	985	18136	0.39%	0.015%
171	9.423	9.412	9.467	HH	589	12047	0.08%	0.003%
172	9.485	9.467	9.502	HH	241	3692	0.08%	0.003%
173	9.509	9.502	9.513	HH	126	716	0.83%	0.032%
174	9.538	9.513	9.558	HH	546	7869	0.88%	0.034%
175	9.569	9.558	9.605	HH	468	8332	0.47%	0.018%
176	9.624	9.605	9.643	HH	278	4461	0.99%	0.038%
177	9.674	9.643	9.703	HH	445	9332	0.93%	0.036%
178	9.721	9.703	9.739	HH	609	8779	3.55%	0.136%
179	9.759	9.739	9.798	HH	2155	33627	0.27%	0.010%
180	9.804	9.798	9.808	HH	427	2515	2.92%	0.112%
181	9.837	9.808	9.892	HH	816	27664	1.80%	0.069%
182	9.912	9.892	9.942	HH	881	17031	1.47%	0.056%
183	9.969	9.942	9.991	HH	670	13939	0.50%	0.019%
184	10.001	9.991	10.012	HH	413	4744	6.65%	0.255%
185	10.040	10.012	10.066	HH	4912	62924	1.67%	0.064%
186	10.085	10.066	10.098	HH	1053	15770	3.66%	0.140%
187	10.114	10.098	10.155	HH	1882	34650	5.15%	0.197%
188	10.180	10.155	10.259	HH	1662	48749	1.47%	0.057%
189	10.278	10.259	10.313	HH	601	13958	1.16%	0.044%
190	10.340	10.313	10.357	HH	495	10970	0.46%	0.017%
191	10.360	10.357	10.375	HH	453	4308	0.44%	0.017%
192	10.379	10.375	10.395	HH	376	4126	0.53%	0.020%
193	10.414	10.395	10.420	HH	419	4979	0.41%	0.016%
194	10.429	10.420	10.438	HH	390	3910		

Instrument :

FID_G

ClientSampleId :

JPP-21.2-012825

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 01/31/2025

195	10.445	10.438	10.461	HH	460	5321	0.56%	0.022%
196	10.477	10.461	10.490	HH	491	7017		
197	10.514	10.490	10.532	HH	584	12707		
198	10.560	10.532	10.591	HH	791	21034		
199	10.621	10.591	10.635	HH	963	21109		
200	10.647	10.635	10.673	HH	1148	19550		
201	10.688	10.673	10.731	HH	808	23125	2.44%	0.094%
202	10.763	10.731	10.795	HH	1060	29273	3.09%	0.118%
203	10.819	10.795	10.860	HH	2022	45322	4.79%	0.183%
204	10.872	10.860	10.887	HH	991	13935	1.47%	0.056%
205	10.919	10.887	10.950	HH	1508	42597	4.50%	0.172%
206	10.972	10.950	11.052	HH	1825	66061	6.98%	0.267%
207	11.068	11.052	11.084	HH	1029	16619	1.76%	0.067%
208	11.092	11.084	11.104	HH	821	9257	0.98%	0.037%
209	11.108	11.104	11.118	HH	794	6226	0.66%	0.025%
210	11.138	11.118	11.145	HH	1149	15119	1.60%	0.061%
211	11.170	11.145	11.219	HH	23810	293135	30.96%	1.187%
212	11.245	11.219	11.332	HH	6184	129314	13.66%	0.523%
213	11.339	11.332	11.344	HH	991	6314	0.67%	0.026%
214	11.350	11.344	11.387	HH	1011	23561	2.49%	0.095%
215	11.392	11.387	11.403	HH	903	8391	0.89%	0.034%
216	11.418	11.403	11.444	HH	1193	24752	2.61%	0.100%
217	11.463	11.444	11.508	HH	3096	62338	6.58%	0.252%
218	11.516	11.508	11.520	HH	970	6646	0.70%	0.027%
219	11.557	11.520	11.578	HH	1254	38206	4.04%	0.155%
220	11.595	11.578	11.602	HH	1333	17816	1.88%	0.072%
221	11.625	11.602	11.652	HH	1856	42849	4.53%	0.173%
222	11.669	11.652	11.674	HH	1349	16396	1.73%	0.066%
223	11.710	11.674	11.749	HH	1991	65882	6.96%	0.267%
224	11.775	11.749	11.794	HH	1492	33857	3.58%	0.137%
225	11.826	11.794	11.849	HH	1587	43687	4.61%	0.177%
226	11.867	11.849	11.891	HH	1497	34183	3.61%	0.138%
227	11.910	11.891	11.923	HH	1435	26574	2.81%	0.108%
228	11.931	11.923	11.946	HH	1515	18763	1.98%	0.076%
229	11.977	11.946	11.993	HH	4005	68086	7.19%	0.276%
230	12.009	11.993	12.037	HH	4863	75898	8.02%	0.307%
231	12.093	12.037	12.110	HH	4317	107616	11.37%	0.436%
232	12.127	12.110	12.141	HH	3415	50261	5.31%	0.203%
233	12.158	12.141	12.189	HH	3808	71593	7.56%	0.290%
234	12.211	12.189	12.216	HH	1552	24241	2.56%	0.098%
235	12.241	12.216	12.260	HH	1994	45372	4.79%	0.184%
236	12.299	12.260	12.319	HH	2587	71505	7.55%	0.289%
237	12.339	12.319	12.364	HH	3680	68167	7.20%	0.276%
238	12.369	12.364	12.402	HH	1945	42920	4.53%	0.174%
239	12.405	12.402	12.425	HH	1811	24425	2.58%	0.099%
240	12.451	12.425	12.472	HH	3750	70964	7.50%	0.287%
241	12.482	12.472	12.499	HH	1937	30115	3.18%	0.122%
242	12.513	12.499	12.520	HH	2101	25008	2.64%	0.101%
243	12.545	12.520	12.579	HH	6139	115042	12.15%	0.466%
244	12.599	12.579	12.616	HH	2348	49803	5.26%	0.202%
245	12.622	12.616	12.644	HH	2219	36072	3.81%	0.146%
246	12.660	12.644	12.679	HH	2503	47860	5.06%	0.194%

Instrument :

FID_G

ClientSampleId :

JPP-21.2-012825

0.56% 0.022%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/31/2025

Supervised By :Ankita Jodhani 01/31/2025

					rteres				
247	12.701	12.679	12.720	HH	2512	59538	6.29%	0.241%	
248	12.725	12.720	12.750	HH	2465	40500			
249	12.770	12.750	12.810	HH	2956	91033			
250	12.831	12.810	12.855	HH	3771	80337			
251	12.882	12.855	12.901	HH	4542	93604			
252	12.920	12.901	12.926	HH	3268	45020			
253	12.943	12.926	12.971	HH	4315	92193	9.74%	0.373%	
254	12.999	12.971	13.042	HH	38027	507170	53.57%	2.053%	
255	13.060	13.042	13.082	HH	2821	62142	6.56%	0.252%	
256	13.102	13.082	13.112	HH	2761	46867	4.95%	0.190%	
257	13.135	13.112	13.150	HH	3100	65861	6.96%	0.267%	
258	13.162	13.150	13.172	HH	3189	39200	4.14%	0.159%	
259	13.187	13.172	13.200	HH	3797	60543	6.40%	0.245%	
260	13.210	13.200	13.229	HH	3471	54805	5.79%	0.222%	
261	13.239	13.229	13.265	HH	3064	64881	6.85%	0.263%	
262	13.298	13.265	13.325	HH	33615	441658	46.65%	1.788%	
263	13.355	13.325	13.370	HH	5919	118033	12.47%	0.478%	
264	13.387	13.370	13.418	HH	5934	119019	12.57%	0.482%	
265	13.439	13.418	13.452	HH	3267	63953	6.76%	0.259%	
266	13.474	13.452	13.483	HH	4125	67010	7.08%	0.271%	
267	13.500	13.483	13.527	HH	4550	98732	10.43%	0.400%	
268	13.567	13.527	13.597	HH	5585	166706	17.61%	0.675%	
269	13.606	13.597	13.616	HH	3563	40216	4.25%	0.163%	
270	13.636	13.616	13.665	HH	4051	107706	11.38%	0.436%	
271	13.697	13.665	13.717	HH	4212	114733	12.12%	0.464%	
272	13.723	13.717	13.739	HH	3647	47379	5.00%	0.192%	
273	13.760	13.739	13.795	HH	5338	142867	15.09%	0.578%	
274	13.798	13.795	13.810	HH	3609	32117	3.39%	0.130%	
275	13.815	13.810	13.820	HH	3570	21641	2.29%	0.088%	
276	13.826	13.820	13.845	HH	3618	54555	5.76%	0.221%	
277	13.891	13.845	13.925	HH	7564	236889	25.02%	0.959%	
278	13.960	13.925	13.979	HH	4391	129153	13.64%	0.523%	
279	14.000	13.979	14.019	HH	6440	128162	13.54%	0.519%	
280	14.038	14.019	14.057	HH	6163	118067	12.47%	0.478%	
281	14.079	14.057	14.113	HH	4898	151591	16.01%	0.614%	
282	14.168	14.113	14.190	HH	6991	259596	27.42%	1.051%	
283	14.209	14.190	14.250	HH	6247	183834	19.42%	0.744%	
284	14.288	14.250	14.310	HH	5132	171889	18.16%	0.696%	
285	14.325	14.310	14.344	HH	4979	95350	10.07%	0.386%	
286	14.354	14.344	14.363	HH	5083	58450	6.17%	0.237%	
287	14.380	14.363	14.392	HH	5231	88647	9.36%	0.359%	
288	14.425	14.392	14.465	HH	5188	219828	23.22%	0.890%	
289	14.473	14.465	14.489	HH	5161	71224	7.52%	0.288%	
290	14.506	14.489	14.519	HH	5349	95721	10.11%	0.387%	
291	14.537	14.519	14.552	HH	5549	106014	11.20%	0.429%	
292	14.596	14.552	14.607	HH	6182	193916	20.48%	0.785%	
293	14.629	14.607	14.657	HH	8283	204911	21.64%	0.829%	
294	14.665	14.657	14.685	HH	6024	98284	10.38%	0.398%	
295	14.713	14.685	14.731	HH	6914	177141	18.71%	0.717%	
296	14.737	14.731	14.742	HH	6516	43543	4.60%	0.176%	
297	14.749	14.742	14.756	HH	6428	53141	5.61%	0.215%	
298	14.764	14.756	14.770	HH	6496	54632	5.77%	0.221%	
299	14.774	14.770	14.779	HH	6398	32859	3.47%	0.133%	

Instrument :

FID_G

ClientSampleId :

JPP-21.2-012825

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/31/2025

Supervised By :Ankita Jodhani 01/31/2025

							Instrument : FID_G	
							ClientSampleId : JPP-21.2-012825	
rteres								
300	14.806	14.779	14.830	HH	8257	224276	23.69%	0.908%
301	14.836	14.830	14.847	HH	7000	70056	Manual IntegrationsAPPROVED	
302	14.872	14.847	14.895	HH	10658	240022	25.00%	0.908%
303	14.933	14.895	14.955	HH	9401	281587	29.00%	0.908%
304	14.961	14.955	14.970	HH	6909	61523	6.00%	0.908%
305	14.996	14.970	15.019	HH	7436	206280	21.00%	0.908%
306	15.050	15.019	15.105	HH	17871	519628	54.89%	2.103%
307	15.134	15.105	15.152	HH	8525	217401	22.96%	0.880%
308	15.183	15.152	15.204	HH	23144	431026	45.53%	1.745%
309	15.224	15.204	15.269	HH	22125	486519	51.39%	1.969%
310	15.282	15.269	15.310	HH	8357	202653	21.41%	0.820%
311	15.346	15.310	15.367	HH	11435	324425	34.27%	1.313%
312	15.383	15.367	15.400	HH	8990	174330	18.41%	0.706%
313	15.426	15.400	15.462	HH	9712	337492	35.65%	1.366%
314	15.486	15.462	15.511	HH	10310	277768	29.34%	1.124%
315	15.540	15.511	15.559	HH	10214	282389	29.83%	1.143%
316	15.566	15.559	15.595	HH	9554	204494	21.60%	0.828%
317	15.632	15.595	15.664	HH	14384	461866	48.79%	1.870%
318	15.674	15.664	15.691	HH	10506	169416	17.90%	0.686%
319	15.706	15.691	15.718	HH	10189	161658	17.08%	0.654%
320	15.736	15.718	15.750	HH	10281	190921	20.17%	0.773%
321	15.774	15.750	15.805	HH	11545	361430	38.18%	1.463%
322	15.824	15.805	15.836	HH	11266	206982	21.86%	0.838%
323	15.859	15.836	15.879	HH	13899	320175	33.82%	1.296%
324	15.901	15.879	15.930	HH	12615	361061	38.14%	1.462%
325	15.948	15.930	15.954	HH	11647	162387	17.15%	0.657%
326	16.004	15.954	16.009	HH	13124	396073	41.84%	1.603%
327	16.025	16.009	16.064	HH	13682	421174	44.49%	1.705%
328	16.102	16.064	16.124	HH	12967	450165	47.55%	1.822%
329	16.127	16.124	16.134	HH	12479	74060	7.82%	0.300%
330	16.156	16.134	16.162	HH	12949	215181	22.73%	0.871%
331	16.187	16.162	16.203	HH	13533	322837	34.10%	1.307%
332	16.220	16.203	16.238	HH	14115	286844	30.30%	1.161%
333	16.284	16.238	16.304	HH	15256	554301	58.55%	2.244%
334	16.308	16.304	16.321	HH	14056	146953	15.52%	0.595%
335	16.341	16.321	16.355	HH	14235	284444	30.05%	1.151%
336	16.371	16.355	16.380	HH	14307	210328	22.22%	0.851%
337	16.401	16.380	16.405	HH	14436	213319	22.53%	0.864%
338	16.419	16.405	16.432	HH	14567	230919	24.39%	0.935%
339	16.457	16.432	16.463	HH	15727	279929	29.57%	1.133%
340	16.477	16.463	16.509	HH	16080	434512	45.90%	1.759%
341	16.531	16.509	16.550	HH	16332	394662	41.69%	1.598%
342	16.573	16.550	16.613	HH	17341	633318	66.90%	2.564%
343	16.675	16.613	16.703	HH	18770	946693	100.00%	3.832%
344	16.750	16.703	16.768	HH	34400	942666	99.57%	3.816%
345	16.774	16.768	16.823	HH	25440	696888	73.61%	2.821%
346	16.834	16.823	16.838	HH	19328	166520	17.59%	0.674%
347	16.921	16.903	16.954	HH	21304	631804	66.74%	2.558%
348	16.966	16.954	16.970	HH	21173	207731	21.94%	0.841%
Sum of corrected areas:							24703453	

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-13	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	79
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015267.D	10	01/30/25 09:15	01/30/25 21:28	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	205000		2330	21000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	3.37	*	37 - 130	168%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015267.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 21:28
Operator : YP\AJ
Sample : Q1216-13 10X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:13:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.053	432222	3.370 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

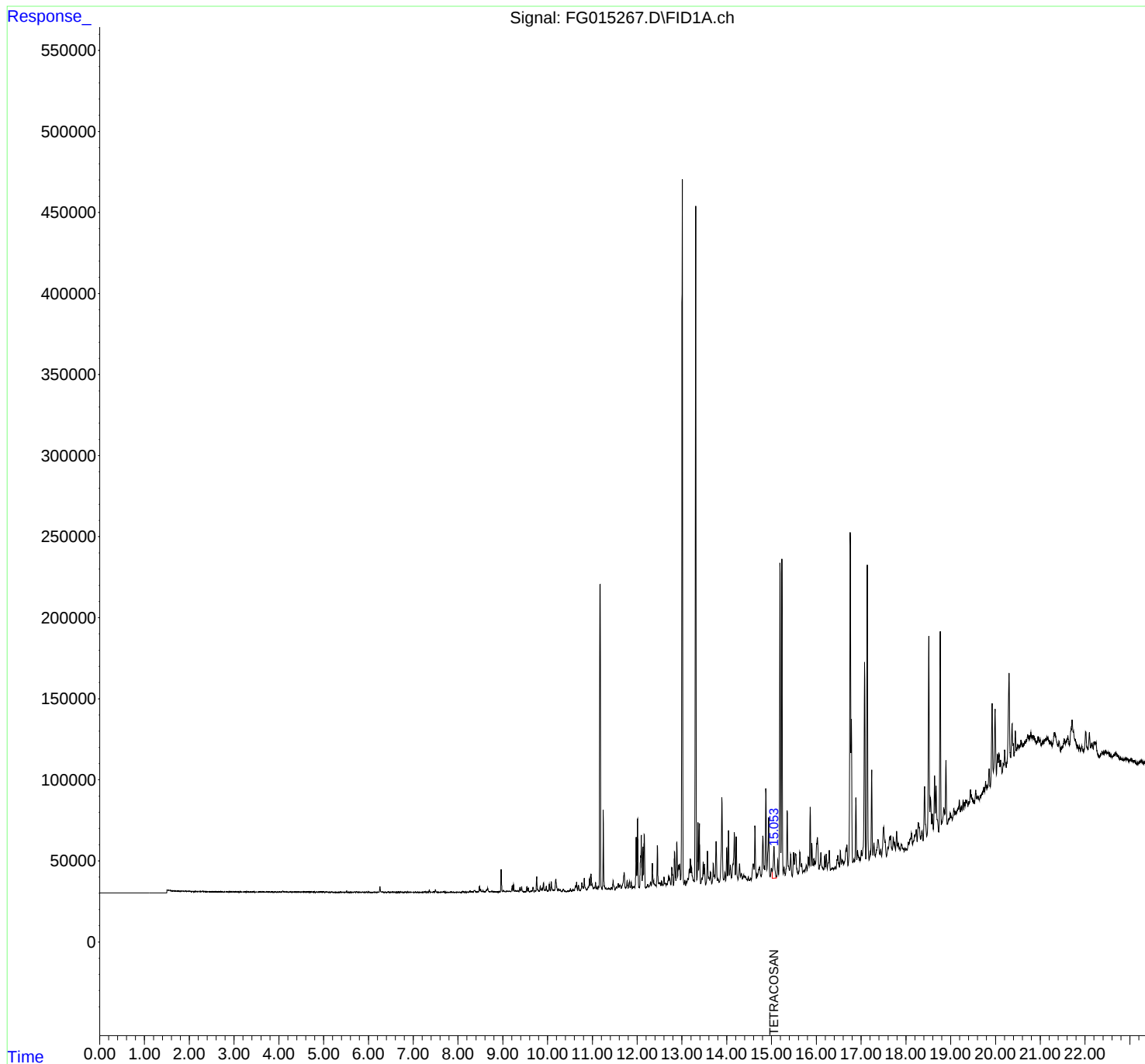
(m)=manual int.

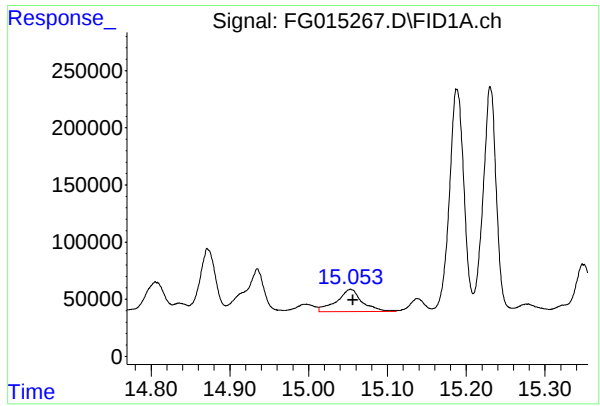
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015267.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 21:28
Operator : YP\AJ
Sample : Q1216-13 10X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:13:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.053 min
Delta R.T.: -0.003 min
Response: 432222
Conc: 3.37 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-26.1-012825

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015267.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 21:28
 Sample : Q1216-13 10X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.359	4.350	4.363	BH	-24	-350	-0.01%	-0.001%
2	4.374	4.363	4.382	PH	18	-545	-0.01%	-0.001%
3	4.390	4.382	4.405	PH	1	-947	-0.02%	-0.001%
4	4.410	4.405	4.431	PH	-27	-840	-0.02%	-0.001%
5	4.435	4.431	4.446	PH	-9	-483	-0.01%	-0.001%
6	4.451	4.446	4.460	PH	6	-449	-0.01%	-0.001%
7	4.463	4.460	4.522	PH	-44	-2092	-0.04%	-0.003%
8	4.538	4.522	4.560	PH	112	279	0.01%	0.000%
9	4.569	4.560	4.582	PH	2	-261	-0.00%	-0.000%
10	4.584	4.582	4.601	PH	-22	-662	-0.01%	-0.001%
11	4.614	4.601	4.623	PH	2	-491	-0.01%	-0.001%
12	4.635	4.623	4.651	PH	-22	-998	-0.02%	-0.001%
13	4.666	4.651	4.687	PH	127	-81	-0.00%	-0.000%
14	4.699	4.687	4.704	PH	-27	-578	-0.01%	-0.001%
15	4.715	4.704	4.737	PH	26	-722	-0.01%	-0.001%
16	4.742	4.737	4.751	PH	-53	-684	-0.01%	-0.001%
17	4.769	4.751	4.795	PH	45	-909	-0.02%	-0.001%
18	4.800	4.795	4.809	PH	-80	-808	-0.02%	-0.001%
19	4.830	4.809	4.844	PH	90	-743	-0.01%	-0.001%
20	4.855	4.844	4.866	PH	-59	-1314	-0.03%	-0.002%
21	4.877	4.866	4.888	PH	-46	-1146	-0.02%	-0.002%
22	4.910	4.888	4.923	PH	-21	-1393	-0.03%	-0.002%
23	4.930	4.923	4.944	PH	11	-390	-0.01%	-0.001%
24	4.962	4.944	4.978	PH	-24	-1036	-0.02%	-0.002%
25	4.985	4.978	5.001	PH	-10	-627	-0.01%	-0.001%
26	5.051	5.001	5.087	PH	26	-3975	-0.08%	-0.006%
27	5.096	5.087	5.114	PH	-88	-2022	-0.04%	-0.003%
28	5.117	5.114	5.122	PH	-110	-556	-0.01%	-0.001%
29	5.130	5.122	5.144	PH	-42	-1771	-0.03%	-0.003%
30	5.177	5.144	5.204	PH	-32	-4135	-0.08%	-0.006%
31	5.221	5.204	5.233	PH	-89	-2191	-0.04%	-0.003%
32	5.238	5.233	5.247	PH	-99	-1243	-0.02%	-0.002%
33	5.255	5.247	5.282	PH	-71	-3677	-0.07%	-0.005%
34	5.305	5.282	5.313	PH	-65	-2941	-0.06%	-0.004%
35	5.318	5.313	5.334	PH	-142	-2064	-0.04%	-0.003%
36	5.339	5.334	5.348	PH	-164	-1492	-0.03%	-0.002%

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37	5.370	5.348	5.391	PH	-15	-2472	-0.05%	-0.004%
38	5.394	5.391	5.447	PH	-138	-7000	-0.13%	-0.010%
39	5.491	5.447	5.505	PH	-57	-5556	-0.11%	-0.008%
40	5.515	5.505	5.542	PH	517	-2929	-0.06%	-0.004%
41	5.551	5.542	5.558	PH	-122	-1640	-0.03%	-0.002%
42	5.563	5.558	5.596	PH	-118	-4271	-0.08%	-0.006%
43	5.614	5.596	5.619	PH	-139	-2737	-0.05%	-0.004%
44	5.622	5.619	5.630	PH	-137	-1331	-0.03%	-0.002%
45	5.636	5.630	5.641	PH	-179	-1280	-0.02%	-0.002%
46	5.654	5.641	5.665	PH	-158	-3233	-0.06%	-0.005%
47	5.689	5.665	5.712	PH	130	-1785	-0.03%	-0.003%
48	5.732	5.712	5.785	PH	277	-1911	-0.04%	-0.003%
49	5.792	5.785	5.819	PH	-7	-3750	-0.07%	-0.005%
50	5.822	5.819	5.830	PH	-209	-1488	-0.03%	-0.002%
51	5.843	5.830	5.847	PH	-144	-2050	-0.04%	-0.003%
52	5.850	5.847	5.857	PH	-164	-1044	-0.02%	-0.002%
53	5.880	5.857	5.921	PH	-61	-5749	-0.11%	-0.008%
54	5.947	5.921	5.952	PH	-101	-2910	-0.06%	-0.004%
55	5.956	5.952	5.969	PH	-73	-1331	-0.03%	-0.002%
56	5.975	5.969	6.010	PH	-43	-2488	-0.05%	-0.004%
57	6.025	6.010	6.035	PH	-93	-2478	-0.05%	-0.004%
58	6.049	6.035	6.053	PH	-146	-2084	-0.04%	-0.003%
59	6.057	6.053	6.060	PH	-124	-697	-0.01%	-0.001%
60	6.065	6.060	6.094	PH	-132	-3881	-0.07%	-0.006%
61	6.103	6.094	6.111	PH	-165	-2050	-0.04%	-0.003%
62	6.121	6.111	6.144	PH	-116	-3877	-0.07%	-0.006%
63	6.148	6.144	6.150	PH	-175	-762	-0.01%	-0.001%
64	6.169	6.150	6.188	PH	-89	-3164	-0.06%	-0.005%
65	6.200	6.188	6.207	PH	-110	-1732	-0.03%	-0.003%
66	6.217	6.207	6.237	PH	-55	-1979	-0.04%	-0.003%
67	6.258	6.237	6.296	PH	3339	31129	0.60%	0.045%
68	6.312	6.296	6.353	PH	67	-3342	-0.06%	-0.005%
69	6.358	6.353	6.360	PH	-119	-615	-0.01%	-0.001%
70	6.372	6.360	6.379	PH	-100	-1208	-0.02%	-0.002%
71	6.385	6.379	6.390	PH	-94	-1055	-0.02%	-0.002%
72	6.394	6.390	6.400	PH	-140	-963	-0.02%	-0.001%
73	6.408	6.400	6.423	PH	-59	-1669	-0.03%	-0.002%
74	6.442	6.423	6.480	PH	-62	-4465	-0.09%	-0.006%
75	6.489	6.480	6.499	PH	-53	-1626	-0.03%	-0.002%
76	6.515	6.499	6.542	PH	-58	-3404	-0.07%	-0.005%
77	6.546	6.542	6.549	PH	-125	-594	-0.01%	-0.001%
78	6.562	6.549	6.596	PH	-1	-3214	-0.06%	-0.005%
79	6.602	6.596	6.609	PH	-120	-1164	-0.02%	-0.002%
80	6.629	6.609	6.657	PH	-70	-4167	-0.08%	-0.006%
81	6.665	6.657	6.673	PH	-98	-1635	-0.03%	-0.002%
82	6.679	6.673	6.705	PH	-110	-3190	-0.06%	-0.005%
83	6.722	6.705	6.772	PH	293	-2411	-0.05%	-0.004%
84	6.777	6.772	6.792	PH	-167	-2435	-0.05%	-0.004%
85	6.796	6.792	6.799	PH	-125	-558	-0.01%	-0.001%
86	6.810	6.799	6.820	PH	-28	-1280	-0.02%	-0.002%
87	6.824	6.820	6.835	PH	-85	-1385	-0.03%	-0.002%
88	6.839	6.835	6.860	PH	-77	-2615	-0.05%	-0.004%
89	6.879	6.860	6.906	PH	56	-3634	-0.07%	-0.005%

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90	6.917	6.906	6.922	PH	-168	-1938	-0.04%	-0.003%
91	6.927	6.922	6.992	PH	-164	-10070	-0.19%	-0.015%
92	7.006	6.992	7.028	PH	-82	-4511	-0.09%	-0.007%
93	7.052	7.028	7.102	PH	28	-7542	-0.14%	-0.011%
94	7.131	7.102	7.151	PH	-126	-5648	-0.11%	-0.008%
95	7.158	7.151	7.165	PH	-172	-1854	-0.04%	-0.003%
96	7.170	7.165	7.180	PH	-193	-2012	-0.04%	-0.003%
97	7.184	7.180	7.192	PH	-213	-1527	-0.03%	-0.002%
98	7.259	7.192	7.276	PH	13	-6241	-0.12%	-0.009%
99	7.284	7.276	7.288	PH	-83	-948	-0.02%	-0.001%
100	7.299	7.288	7.335	PH	-7	-3089	-0.06%	-0.004%
101	7.359	7.335	7.393	PH	1230	10078	0.19%	0.015%
102	7.404	7.393	7.430	PH	34	-1703	-0.03%	-0.002%
103	7.446	7.430	7.476	PH	83	-1516	-0.03%	-0.002%
104	7.497	7.476	7.528	PH	1407	11224	0.21%	0.016%
105	7.535	7.528	7.571	PH	-113	-3370	-0.06%	-0.005%
106	7.576	7.571	7.585	PH	-110	-1239	-0.02%	-0.002%
107	7.604	7.585	7.644	PH	-61	-4339	-0.08%	-0.006%
108	7.650	7.644	7.655	PH	-87	-823	-0.02%	-0.001%
109	7.675	7.655	7.702	PH	411	1571	0.03%	0.002%
110	7.709	7.702	7.742	PH	-112	-3044	-0.06%	-0.004%
111	7.750	7.742	7.759	PH	-109	-1310	-0.03%	-0.002%
112	7.766	7.759	7.780	PH	-141	-2472	-0.05%	-0.004%
113	7.802	7.780	7.809	PH	-124	-2996	-0.06%	-0.004%
114	7.814	7.809	7.819	PH	-122	-1075	-0.02%	-0.002%
115	7.851	7.819	7.888	PH	35	-5234	-0.10%	-0.008%
116	7.907	7.888	7.923	PH	-141	-4064	-0.08%	-0.006%
117	7.944	7.923	7.951	PH	-132	-3313	-0.06%	-0.005%
118	7.967	7.951	7.998	PH	-52	-5031	-0.10%	-0.007%
119	8.008	7.998	8.019	PH	-124	-2172	-0.04%	-0.003%
120	8.023	8.019	8.038	PH	-152	-2229	-0.04%	-0.003%
121	8.044	8.038	8.052	PH	-196	-1921	-0.04%	-0.003%
122	8.059	8.052	8.070	PH	-147	-1925	-0.04%	-0.003%
123	8.103	8.070	8.135	PH	461	2572	0.05%	0.004%
124	8.138	8.135	8.164	PH	-54	-1781	-0.03%	-0.003%
125	8.169	8.164	8.189	PH	-68	-1616	-0.03%	-0.002%
126	8.194	8.189	8.198	PH	-77	-528	-0.01%	-0.001%
127	8.204	8.198	8.213	PH	-67	-748	-0.01%	-0.001%
128	8.216	8.213	8.224	PH	-74	-784	-0.01%	-0.001%
129	8.229	8.224	8.232	PH	-92	-567	-0.01%	-0.001%
130	8.261	8.232	8.292	PH	497	5419	0.10%	0.008%
131	8.297	8.292	8.301	PH	-24	-288	-0.01%	-0.000%
132	8.313	8.301	8.341	PH	100	-131	-0.00%	-0.000%
133	8.360	8.341	8.367	PH	935	7589	0.15%	0.011%
134	8.376	8.367	8.421	HH	975	10691	0.20%	0.016%
135	8.444	8.421	8.457	PH	106	525	0.01%	0.001%
136	8.480	8.457	8.496	PH	3484	37882	0.72%	0.055%
137	8.508	8.496	8.528	HH	1820	18920	0.36%	0.027%
138	8.560	8.528	8.592	HH	895	13664	0.26%	0.020%
139	8.600	8.592	8.614	HH	104	974	0.02%	0.001%
140	8.639	8.614	8.643	HH	1270	13100	0.25%	0.019%
141	8.665	8.643	8.708	HH	2353	39749	0.76%	0.058%

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142	8.716	8.708	8.740	HH	291	2804	0.05%	0.004%
143	8.757	8.740	8.780	PH	759	7108	0.14%	0.010%
144	8.783	8.780	8.790	PH	-8	-122	-0.00%	-0.000%
145	8.807	8.790	8.835	PH	282	1600	0.03%	0.002%
146	8.838	8.835	8.861	PH	-13	-1023	-0.02%	-0.001%
147	8.865	8.861	8.879	PH	-19	-816	-0.02%	-0.001%
148	8.920	8.879	8.942	PH	366	3401	0.07%	0.005%
149	8.966	8.942	8.995	HH	13876	142677	2.73%	0.207%
150	9.014	8.995	9.052	HH	1072	15703	0.30%	0.023%
151	9.084	9.052	9.097	HH	569	9233	0.18%	0.013%
152	9.103	9.097	9.121	HH	446	4829	0.09%	0.007%
153	9.137	9.121	9.149	HH	532	6214	0.12%	0.009%
154	9.159	9.149	9.181	HH	461	6140	0.12%	0.009%
155	9.210	9.181	9.227	HH	3772	45677	0.87%	0.066%
156	9.243	9.227	9.267	HH	4665	50705	0.97%	0.074%
157	9.284	9.267	9.296	HH	874	10407	0.20%	0.015%
158	9.304	9.296	9.320	HH	424	5055	0.10%	0.007%
159	9.336	9.320	9.360	HH	949	12692	0.24%	0.018%
160	9.383	9.360	9.405	HH	2767	39475	0.75%	0.057%
161	9.422	9.405	9.475	HH	3133	41509	0.79%	0.060%
162	9.483	9.475	9.513	HH	137	2062	0.04%	0.003%
163	9.539	9.513	9.556	HH	3246	37574	0.72%	0.055%
164	9.571	9.556	9.604	HH	2401	26896	0.51%	0.039%
165	9.622	9.604	9.638	HH	553	6637	0.13%	0.010%
166	9.676	9.638	9.697	HH	2979	42241	0.81%	0.061%
167	9.718	9.697	9.734	HH	850	12373	0.24%	0.018%
168	9.758	9.734	9.778	HH	9364	107245	2.05%	0.156%
169	9.783	9.778	9.813	HH	1620	18923	0.36%	0.027%
170	9.839	9.813	9.855	HH	3570	45797	0.88%	0.067%
171	9.881	9.855	9.892	HH	2458	37430	0.72%	0.054%
172	9.910	9.892	9.932	HH	5671	74897	1.43%	0.109%
173	9.940	9.932	9.952	HH	1300	13616	0.26%	0.020%
174	9.971	9.952	10.013	HH	3740	58529	1.12%	0.085%
175	10.040	10.013	10.062	HH	4872	64304	1.23%	0.093%
176	10.084	10.062	10.122	HH	6453	95850	1.83%	0.139%
177	10.137	10.122	10.150	HH	1471	19483	0.37%	0.028%
178	10.184	10.150	10.230	HH	7734	152759	2.92%	0.222%
179	10.246	10.230	10.267	HH	2000	29512	0.56%	0.043%
180	10.281	10.267	10.307	HH	1458	22329	0.43%	0.032%
181	10.350	10.307	10.407	HH	1688	45213	0.86%	0.066%
182	10.411	10.407	10.418	HH	239	1303	0.02%	0.002%
183	10.451	10.418	10.465	HH	661	11327	0.22%	0.016%
184	10.480	10.465	10.492	HH	594	8872	0.17%	0.013%
185	10.509	10.492	10.529	HH	2023	26532	0.51%	0.039%
186	10.533	10.529	10.542	HH	677	4885	0.09%	0.007%
187	10.565	10.542	10.595	HH	1672	36314	0.69%	0.053%
188	10.621	10.595	10.632	HH	4036	54300	1.04%	0.079%
189	10.647	10.632	10.671	HH	6159	87446	1.67%	0.127%
190	10.688	10.671	10.727	HH	4081	68846	1.32%	0.100%
191	10.766	10.727	10.783	HH	5861	99228	1.90%	0.144%
192	10.788	10.783	10.800	HH	3098	28436	0.54%	0.041%
193	10.819	10.800	10.876	HH	8476	163509	3.13%	0.237%
194	10.904	10.876	10.912	HH	3110	46925	0.90%	0.068%

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195	10.937	10.912	10.951	HH	8167	124049	2.37%	0.180%
196	10.970	10.951	10.992	HH	10933	182204	3.48%	0.265%
197	10.998	10.992	11.015	HH	4671	48838	0.93%	0.071%
198	11.043	11.015	11.052	HH	2802	53932	1.03%	0.078%
199	11.070	11.052	11.087	HH	5902	80586	1.54%	0.117%
200	11.099	11.087	11.122	HH	2868	50009	0.96%	0.073%
201	11.138	11.122	11.145	HH	3618	38462	0.74%	0.056%
202	11.172	11.145	11.217	HH	189835	2108522	40.32%	3.062%
203	11.245	11.217	11.290	HH	50331	604619	11.56%	0.878%
204	11.301	11.290	11.333	HH	2636	51177	0.98%	0.074%
205	11.348	11.333	11.370	HH	2315	46093	0.88%	0.067%
206	11.385	11.370	11.404	HH	2132	36732	0.70%	0.053%
207	11.420	11.404	11.440	HH	2784	50154	0.96%	0.073%
208	11.462	11.440	11.503	HH	6964	141535	2.71%	0.206%
209	11.534	11.503	11.552	HH	3033	68302	1.31%	0.099%
210	11.577	11.552	11.593	HH	4821	83765	1.60%	0.122%
211	11.622	11.593	11.645	HH	4070	105706	2.02%	0.154%
212	11.709	11.645	11.744	HH	11976	329415	6.30%	0.478%
213	11.775	11.744	11.797	HH	7410	137880	2.64%	0.200%
214	11.826	11.797	11.849	HH	6548	130373	2.49%	0.189%
215	11.867	11.849	11.889	HH	5975	97586	1.87%	0.142%
216	11.905	11.889	11.917	HH	3303	48511	0.93%	0.070%
217	11.930	11.917	11.947	HH	3390	54141	1.04%	0.079%
218	11.978	11.947	11.993	HH	33624	420117	8.03%	0.610%
219	12.008	11.993	12.045	HH	45048	537740	10.28%	0.781%
220	12.076	12.045	12.080	HH	22290	224296	4.29%	0.326%
221	12.093	12.080	12.110	HH	34816	415883	7.95%	0.604%
222	12.127	12.110	12.141	HH	27850	330786	6.33%	0.480%
223	12.158	12.141	12.192	HH	35252	462399	8.84%	0.672%
224	12.204	12.192	12.211	HH	2844	31846	0.61%	0.046%
225	12.235	12.211	12.258	HH	4408	104039	1.99%	0.151%
226	12.300	12.258	12.316	HH	6084	152120	2.91%	0.221%
227	12.338	12.316	12.358	HH	17756	249283	4.77%	0.362%
228	12.369	12.358	12.402	HH	6933	141503	2.71%	0.206%
229	12.412	12.402	12.426	HH	4264	58135	1.11%	0.084%
230	12.451	12.426	12.474	HH	28645	386836	7.40%	0.562%
231	12.482	12.474	12.497	HH	5650	75677	1.45%	0.110%
232	12.510	12.497	12.530	HH	5845	98774	1.89%	0.143%
233	12.545	12.530	12.570	HH	6838	122732	2.35%	0.178%
234	12.598	12.570	12.623	HH	9285	193119	3.69%	0.280%
235	12.628	12.623	12.644	HH	5229	63420	1.21%	0.092%
236	12.658	12.644	12.670	HH	5150	72149	1.38%	0.105%
237	12.703	12.670	12.718	HH	9980	212489	4.06%	0.309%
238	12.727	12.718	12.752	HH	8358	132223	2.53%	0.192%
239	12.773	12.752	12.812	HH	15184	328228	6.28%	0.477%
240	12.834	12.812	12.863	HH	24849	410808	7.86%	0.597%
241	12.885	12.863	12.904	HH	30797	445215	8.51%	0.647%
242	12.921	12.904	12.935	HH	16561	254911	4.87%	0.370%
243	12.948	12.935	12.969	HH	17016	273032	5.22%	0.397%
244	13.006	12.969	13.043	HH	438429	5229019	100.00%	7.595%
245	13.062	13.043	13.080	HH	7143	127301	2.43%	0.185%
246	13.098	13.080	13.105	HH	6551	84757	1.62%	0.123%

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247	13.132	13.105	13.142	HH	8283	158809	3.04%	0.231%
248	13.161	13.142	13.171	HH	14182	203021	3.88%	0.295%
249	13.186	13.171	13.202	HH	20501	289831	5.54%	0.421%
250	13.214	13.202	13.254	HH	15283	340755	6.52%	0.495%
251	13.262	13.254	13.273	HH	7263	76630	1.47%	0.111%
252	13.306	13.273	13.332	HH	422251	4765643	91.14%	6.922%
253	13.356	13.332	13.372	HH	42473	547983	10.48%	0.796%
254	13.388	13.372	13.420	HH	42458	571096	10.92%	0.829%
255	13.443	13.420	13.453	HH	8755	146095	2.79%	0.212%
256	13.473	13.453	13.486	HH	18397	257276	4.92%	0.374%
257	13.500	13.486	13.528	HH	17262	274635	5.25%	0.399%
258	13.567	13.528	13.591	HH	25283	459431	8.79%	0.667%
259	13.603	13.591	13.615	HH	8968	123095	2.35%	0.179%
260	13.636	13.615	13.664	HH	12340	261354	5.00%	0.380%
261	13.698	13.664	13.716	HH	17540	322406	6.17%	0.468%
262	13.724	13.716	13.736	HH	9937	114935	2.20%	0.167%
263	13.761	13.736	13.789	HH	31166	559099	10.69%	0.812%
264	13.801	13.789	13.830	HH	7953	177789	3.40%	0.258%
265	13.891	13.830	13.927	HH	58455	1219871	23.33%	1.772%
266	13.957	13.927	13.975	HH	12063	257763	4.93%	0.374%
267	14.000	13.975	14.018	HH	27096	438107	8.38%	0.636%
268	14.038	14.018	14.059	HH	38110	534246	10.22%	0.776%
269	14.080	14.059	14.106	HH	16789	346362	6.62%	0.503%
270	14.169	14.106	14.190	HH	36744	965696	18.47%	1.403%
271	14.210	14.190	14.249	HH	34154	599674	11.47%	0.871%
272	14.284	14.249	14.306	HH	17453	403281	7.71%	0.586%
273	14.325	14.306	14.358	HH	11333	306489	5.86%	0.445%
274	14.376	14.358	14.390	HH	10632	181725	3.48%	0.264%
275	14.399	14.390	14.414	HH	10039	137298	2.63%	0.199%
276	14.423	14.414	14.444	HH	9487	156024	2.98%	0.227%
277	14.449	14.444	14.463	HH	8004	86183	1.65%	0.125%
278	14.480	14.463	14.510	HH	9365	230833	4.41%	0.335%
279	14.533	14.510	14.547	HH	8552	172421	3.30%	0.250%
280	14.589	14.547	14.609	HH	17307	511954	9.79%	0.744%
281	14.629	14.609	14.660	HH	40708	656344	12.55%	0.953%
282	14.678	14.660	14.689	HH	10710	166246	3.18%	0.241%
283	14.733	14.689	14.767	HH	15450	579641	11.09%	0.842%
284	14.806	14.767	14.828	HH	34439	745189	14.25%	1.082%
285	14.836	14.828	14.848	HH	15924	181948	3.48%	0.264%
286	14.872	14.848	14.895	HH	63044	987881	18.89%	1.435%
287	14.935	14.895	14.969	HH	45954	1013327	19.38%	1.472%
288	14.997	14.969	15.013	HH	14850	331167	6.33%	0.481%
289	15.053	15.013	15.114	HH	28059	949370	18.16%	1.379%
290	15.138	15.114	15.157	HH	19787	364759	6.98%	0.530%
291	15.188	15.157	15.209	HH	203012	2748979	52.57%	3.993%
292	15.231	15.209	15.259	HH	205045	2528889	48.36%	3.673%
293	15.278	15.259	15.306	HH	15103	355479	6.80%	0.516%
294	15.349	15.306	15.374	HH	49231	974036	18.63%	1.415%
295	15.380	15.374	15.399	HH	16087	221988	4.25%	0.322%
296	15.426	15.399	15.461	HH	23230	584413	11.18%	0.849%
297	15.490	15.461	15.512	HH	24517	530444	10.14%	0.770%
298	15.532	15.512	15.590	HH	23648	821357	15.71%	1.193%
299	15.632	15.590	15.657	HH	24587	671854	12.85%	0.976%

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300	15.672	15.657	15.693	HH	17695	330044	6.31%	0.479%
301	15.733	15.693	15.747	HH	13209	408467	7.81%	0.593%
302	15.775	15.747	15.792	HH	16440	397581	7.60%	0.577%
303	15.821	15.792	15.838	HH	21399	491336	9.40%	0.714%
304	15.863	15.838	15.883	HH	52535	841147	16.09%	1.222%
305	15.899	15.883	15.927	HH	29924	579187	11.08%	0.841%
306	15.946	15.927	15.960	HH	20441	359626	6.88%	0.522%
307	15.970	15.960	15.980	HH	18094	210880	4.03%	0.306%
308	16.023	15.980	16.062	HH	33671	1197904	22.91%	1.740%
309	16.101	16.062	16.159	HH	24205	983459	18.81%	1.428%
310	16.186	16.159	16.203	HH	22523	460736	8.81%	0.669%
311	16.223	16.203	16.243	HH	23393	458111	8.76%	0.665%
312	16.289	16.243	16.320	HH	25673	838807	16.04%	1.218%
313	16.335	16.320	16.340	HH	14374	168761	3.23%	0.245%
314	16.357	16.340	16.381	HH	14930	355369	6.80%	0.516%
315	16.396	16.381	16.405	HH	14692	205100	3.92%	0.298%
316	16.422	16.405	16.439	HH	15796	299186	5.72%	0.435%
317	16.479	16.439	16.516	HH	22698	858625	16.42%	1.247%
318	16.535	16.516	16.556	HH	25407	489099	9.35%	0.710%
319	16.574	16.556	16.583	HH	19896	301507	5.77%	0.438%
320	16.590	16.583	16.608	HH	19501	272350	5.21%	0.396%
321	16.614	16.608	16.620	HH	18168	135226	2.59%	0.196%
322	16.658	16.620	16.668	HH	26077	622376	11.90%	0.904%
323	16.682	16.668	16.707	HH	28985	560936	10.73%	0.815%
324	16.758	16.707	16.774	HH	219872	3594921	68.75%	5.221%
325	16.783	16.774	16.818	HH	106063	1393884	26.66%	2.024%
326	16.836	16.818	16.855	HH	20131	419616	8.02%	0.609%
327	16.883	16.855	16.905	HH	58176	1020384	19.51%	1.482%
328	16.919	16.905	16.964	HH	25720	787734	15.06%	1.144%
					Sum of corrected areas:		68852630	

FG011325.M Fri Jan 31 06:36:34 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-17	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.3
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015268.D	10	01/30/25 09:15	01/30/25 21:56	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	80100		2170	19500	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.46		37 - 130	73%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015268.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 21:56
Operator : YP\AJ
Sample : Q1216-17 10X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.2-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:13:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.048	187563	1.462 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

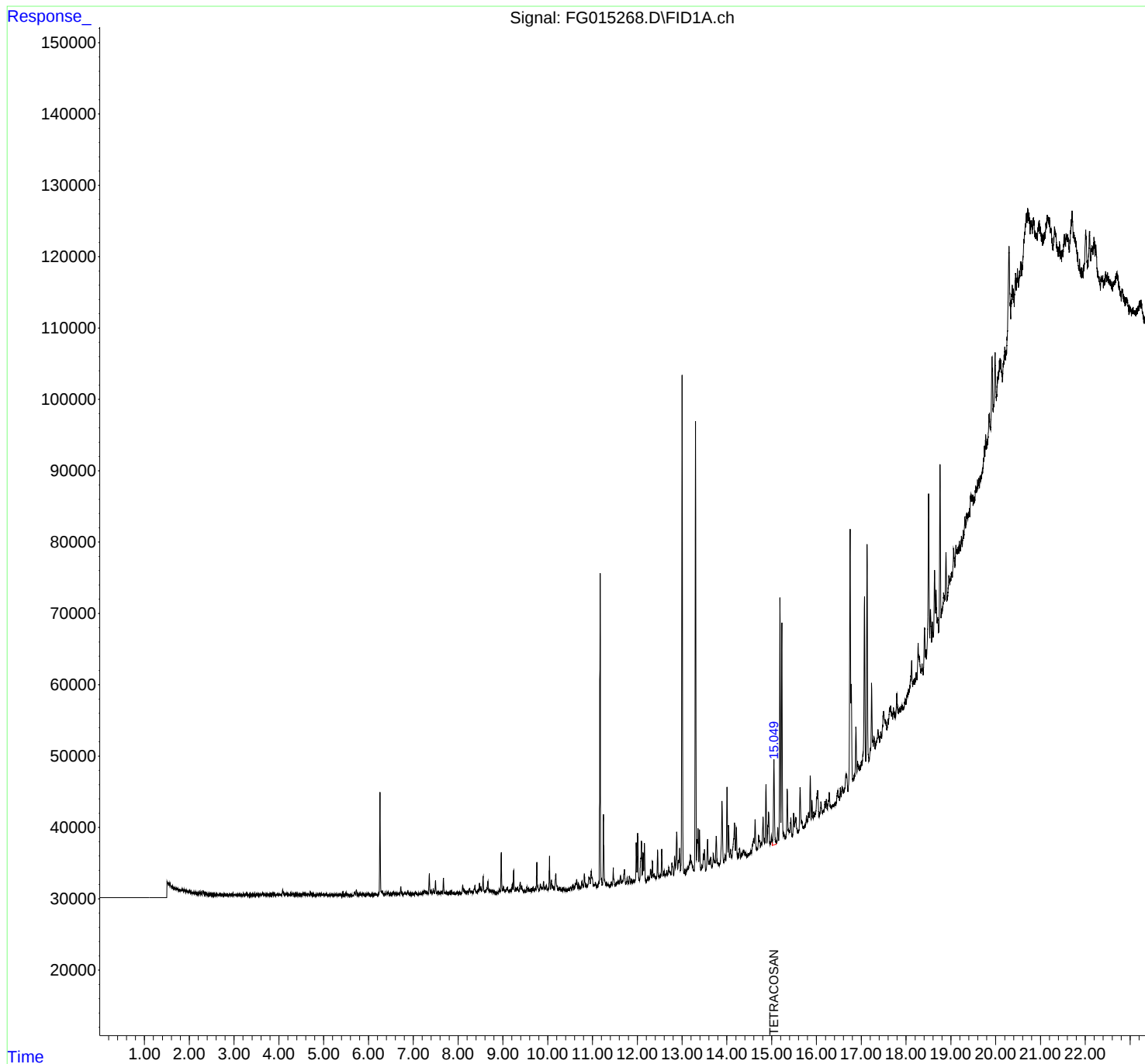
(m)=manual int.

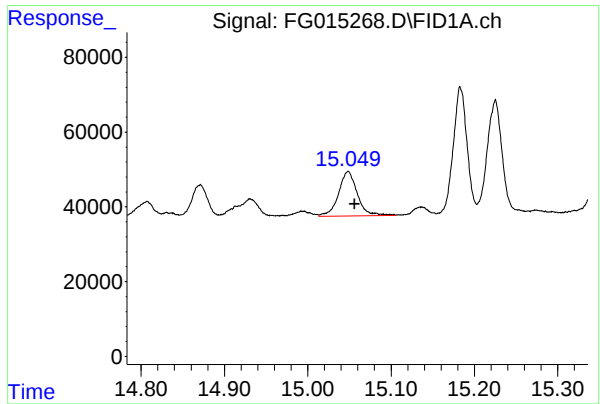
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015268.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 21:56
Operator : YP\AJ
Sample : Q1216-17 10X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.2-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:13:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.048 min
Delta R.T.: -0.008 min
Response: 187563
Conc: 1.46 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-26.2-012825

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015268.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 21:56
 Sample : Q1216-17 10X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.383	4.350	4.403	BH	125	1331	0.12%	0.005%
2	4.407	4.403	4.412	PH	87	248	0.02%	0.001%
3	4.419	4.412	4.425	PH	121	399	0.04%	0.001%
4	4.429	4.425	4.468	HH	95	840	0.08%	0.003%
5	4.472	4.468	4.488	PH	82	271	0.02%	0.001%
6	4.492	4.488	4.516	PH	96	380	0.04%	0.001%
7	4.542	4.516	4.558	PH	265	2783	0.26%	0.010%
8	4.565	4.558	4.571	HH	166	721	0.07%	0.002%
9	4.581	4.571	4.591	HH	146	1125	0.10%	0.004%
10	4.596	4.591	4.602	HH	108	397	0.04%	0.001%
11	4.605	4.602	4.609	HH	99	208	0.02%	0.001%
12	4.619	4.609	4.637	HH	78	917	0.08%	0.003%
13	4.653	4.637	4.680	HH	271	2958	0.27%	0.010%
14	4.713	4.680	4.731	PH	351	4877	0.45%	0.017%
15	4.767	4.731	4.807	PH	215	3032	0.28%	0.010%
16	4.812	4.807	4.822	PH	42	164	0.02%	0.001%
17	4.832	4.822	4.840	PH	82	490	0.05%	0.002%
18	4.850	4.840	4.866	PH	72	563	0.05%	0.002%
19	4.873	4.866	4.881	PH	96	269	0.02%	0.001%
20	4.884	4.881	4.888	PH	70	113	0.01%	0.000%
21	4.898	4.888	4.902	PH	137	365	0.03%	0.001%
22	4.929	4.902	4.953	HH	188	4006	0.37%	0.014%
23	4.958	4.953	4.971	HH	144	1201	0.11%	0.004%
24	4.975	4.971	4.985	HH	93	504	0.05%	0.002%
25	4.994	4.985	4.999	PH	140	730	0.07%	0.003%
26	5.004	4.999	5.016	HH	181	912	0.08%	0.003%
27	5.019	5.016	5.025	HH	105	397	0.04%	0.001%
28	5.028	5.025	5.032	HH	87	228	0.02%	0.001%
29	5.052	5.032	5.090	HH	202	2676	0.25%	0.009%
30	5.100	5.090	5.104	PH	91	150	0.01%	0.001%
31	5.113	5.104	5.127	PH	69	191	0.02%	0.001%
32	5.130	5.127	5.155	PH	41	-94	-0.01%	-0.000%
33	5.166	5.155	5.171	PH	85	289	0.03%	0.001%
34	5.184	5.171	5.194	HH	100	841	0.08%	0.003%
35	5.198	5.194	5.216	PH	65	445	0.04%	0.002%
36	5.223	5.216	5.239	PH	38	85	0.01%	0.000%

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37	5.242	5.239	5.246	PH	19	50	0.00%	0.000%
38	5.257	5.246	5.268	HH	53	458	0.04%	0.002%
39	5.270	5.268	5.276	PH	64	105	0.01%	0.000%
40	5.282	5.276	5.287	PH	39	88	0.01%	0.000%
41	5.296	5.287	5.321	PH	90	676	0.06%	0.002%
42	5.330	5.321	5.341	PH	14	-111	-0.01%	-0.000%
43	5.345	5.341	5.350	PH	6	-65	-0.01%	-0.000%
44	5.362	5.350	5.382	PH	185	1706	0.16%	0.006%
45	5.386	5.382	5.405	PH	26	-202	-0.02%	-0.001%
46	5.414	5.405	5.420	PH	13	-325	-0.03%	-0.001%
47	5.430	5.420	5.442	PH	452	-109	-0.01%	-0.000%
48	5.454	5.442	5.464	PH	28	-315	-0.03%	-0.001%
49	5.466	5.464	5.474	PH	49	66	0.01%	0.000%
50	5.497	5.474	5.521	PH	305	3108	0.29%	0.011%
51	5.531	5.521	5.549	PH	64	270	0.02%	0.001%
52	5.560	5.549	5.571	PH	51	157	0.01%	0.001%
53	5.573	5.571	5.579	PH	27	-80	-0.01%	-0.000%
54	5.594	5.579	5.601	PH	7	-404	-0.04%	-0.001%
55	5.627	5.601	5.645	PH	93	-561	-0.05%	-0.002%
56	5.651	5.645	5.668	PH	-6	-881	-0.08%	-0.003%
57	5.688	5.668	5.712	PH	422	5060	0.47%	0.017%
58	5.728	5.712	5.752	HH	716	8194	0.75%	0.028%
59	5.761	5.752	5.765	HH	127	574	0.05%	0.002%
60	5.770	5.765	5.779	HH	59	314	0.03%	0.001%
61	5.803	5.779	5.807	PH	128	1105	0.10%	0.004%
62	5.811	5.807	5.837	HH	145	824	0.08%	0.003%
63	5.870	5.837	5.915	PH	255	3611	0.33%	0.012%
64	5.952	5.915	5.967	PH	198	1645	0.15%	0.006%
65	5.979	5.967	5.995	HH	214	2091	0.19%	0.007%
66	5.999	5.995	6.039	HH	209	2167	0.20%	0.007%
67	6.073	6.039	6.092	PH	124	1915	0.18%	0.007%
68	6.102	6.092	6.119	PH	102	971	0.09%	0.003%
69	6.123	6.119	6.142	HH	121	490	0.05%	0.002%
70	6.164	6.142	6.185	PH	262	2655	0.24%	0.009%
71	6.200	6.185	6.207	PH	85	621	0.06%	0.002%
72	6.222	6.207	6.232	HH	207	2141	0.20%	0.007%
73	6.258	6.232	6.295	HH	14433	148219	13.66%	0.512%
74	6.310	6.295	6.348	HH	587	9885	0.91%	0.034%
75	6.366	6.348	6.388	HH	301	4142	0.38%	0.014%
76	6.409	6.388	6.424	HH	354	4740	0.44%	0.016%
77	6.438	6.424	6.477	HH	410	7577	0.70%	0.026%
78	6.488	6.477	6.501	HH	212	1740	0.16%	0.006%
79	6.515	6.501	6.528	HH	255	3047	0.28%	0.011%
80	6.532	6.528	6.536	HH	192	692	0.06%	0.002%
81	6.561	6.536	6.589	HH	430	8059	0.74%	0.028%
82	6.607	6.589	6.616	HH	264	3348	0.31%	0.012%
83	6.638	6.616	6.657	HH	286	4917	0.45%	0.017%
84	6.665	6.657	6.676	HH	207	2029	0.19%	0.007%
85	6.681	6.676	6.692	HH	206	1602	0.15%	0.006%
86	6.694	6.692	6.702	HH	231	913	0.08%	0.003%
87	6.723	6.702	6.766	HH	1209	16913	1.56%	0.058%
88	6.785	6.766	6.791	HH	176	2057	0.19%	0.007%
89	6.806	6.791	6.835	HH	455	7281	0.67%	0.025%

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90	6.843	6.835	6.858	HH	217	2368	0.22%	0.008%
91	6.879	6.858	6.905	HH	652	9508	0.88%	0.033%
92	6.916	6.905	6.941	HH	262	3438	0.32%	0.012%
93	6.950	6.941	6.977	HH	230	3387	0.31%	0.012%
94	6.990	6.977	7.002	HH	198	2175	0.20%	0.008%
95	7.011	7.002	7.027	HH	211	2296	0.21%	0.008%
96	7.055	7.027	7.103	HH	336	8783	0.81%	0.030%
97	7.123	7.103	7.144	HH	299	4440	0.41%	0.015%
98	7.174	7.144	7.178	HH	211	3167	0.29%	0.011%
99	7.184	7.178	7.189	HH	224	1195	0.11%	0.004%
100	7.245	7.189	7.250	HH	470	12059	1.11%	0.042%
101	7.259	7.250	7.278	HH	567	7138	0.66%	0.025%
102	7.282	7.278	7.286	HH	323	1437	0.13%	0.005%
103	7.301	7.286	7.323	HH	568	8497	0.78%	0.029%
104	7.359	7.323	7.384	HH	3011	39624	3.65%	0.137%
105	7.403	7.384	7.420	HH	683	10294	0.95%	0.036%
106	7.422	7.420	7.428	HH	404	1403	0.13%	0.005%
107	7.448	7.428	7.478	HH	948	14361	1.32%	0.050%
108	7.497	7.478	7.526	HH	2069	25720	2.37%	0.089%
109	7.546	7.526	7.568	HH	533	9485	0.87%	0.033%
110	7.571	7.568	7.580	HH	364	2373	0.22%	0.008%
111	7.584	7.580	7.590	HH	334	1880	0.17%	0.006%
112	7.596	7.590	7.607	HH	335	2894	0.27%	0.010%
113	7.621	7.607	7.642	HH	465	7968	0.73%	0.028%
114	7.674	7.642	7.707	HH	2367	32621	3.01%	0.113%
115	7.729	7.707	7.736	HH	379	5366	0.49%	0.019%
116	7.741	7.736	7.760	HH	315	3636	0.33%	0.013%
117	7.803	7.760	7.824	HH	396	10485	0.97%	0.036%
118	7.851	7.824	7.879	HH	638	12490	1.15%	0.043%
119	7.882	7.879	7.887	HH	238	948	0.09%	0.003%
120	7.891	7.887	7.897	HH	292	1263	0.12%	0.004%
121	7.902	7.897	7.911	HH	291	1810	0.17%	0.006%
122	7.927	7.911	7.934	HH	278	2585	0.24%	0.009%
123	7.941	7.934	7.948	HH	264	1916	0.18%	0.007%
124	7.959	7.948	7.979	HH	409	5629	0.52%	0.019%
125	7.990	7.979	7.995	HH	323	2453	0.23%	0.008%
126	8.008	7.995	8.039	HH	435	8446	0.78%	0.029%
127	8.045	8.039	8.062	HH	327	4064	0.37%	0.014%
128	8.065	8.062	8.070	HH	247	1301	0.12%	0.004%
129	8.103	8.070	8.124	HH	1385	21732	2.00%	0.075%
130	8.135	8.124	8.154	HH	674	10334	0.95%	0.036%
131	8.165	8.154	8.183	HH	535	7307	0.67%	0.025%
132	8.206	8.183	8.229	HH	562	11597	1.07%	0.040%
133	8.257	8.229	8.280	HH	967	18887	1.74%	0.065%
134	8.308	8.280	8.326	HH	609	13527	1.25%	0.047%
135	8.335	8.326	8.340	HH	379	2877	0.27%	0.010%
136	8.377	8.340	8.416	HH	1382	33047	3.04%	0.114%
137	8.480	8.416	8.495	HH	1700	38924	3.59%	0.134%
138	8.507	8.495	8.523	HH	1215	14863	1.37%	0.051%
139	8.560	8.523	8.594	HH	2602	46796	4.31%	0.162%
140	8.604	8.594	8.620	HH	600	8373	0.77%	0.029%
141	8.665	8.620	8.711	HH	1930	51883	4.78%	0.179%

					rteres			
142	8.718	8.711	8.741	HH	710	10056	0.93%	0.035%
143	8.757	8.741	8.777	HH	730	11925	1.10%	0.041%
144	8.783	8.777	8.798	HH	463	5188	0.48%	0.018%
145	8.803	8.798	8.829	HH	508	6946	0.64%	0.024%
146	8.834	8.829	8.852	HH	374	4637	0.43%	0.016%
147	8.861	8.852	8.866	HH	424	2960	0.27%	0.010%
148	8.891	8.866	8.901	HH	424	6987	0.64%	0.024%
149	8.920	8.901	8.941	HH	762	13668	1.26%	0.047%
150	8.965	8.941	9.001	HH	6005	73641	6.78%	0.254%
151	9.011	9.001	9.050	HH	1166	24400	2.25%	0.084%
152	9.055	9.050	9.071	HH	675	7761	0.72%	0.027%
153	9.103	9.071	9.132	HH	1105	28728	2.65%	0.099%
154	9.136	9.132	9.139	HH	604	2303	0.21%	0.008%
155	9.143	9.139	9.146	HH	584	2310	0.21%	0.008%
156	9.157	9.146	9.179	HH	716	12370	1.14%	0.043%
157	9.209	9.179	9.224	HH	1522	26341	2.43%	0.091%
158	9.242	9.224	9.268	HH	3477	46461	4.28%	0.160%
159	9.283	9.268	9.295	HH	868	12257	1.13%	0.042%
160	9.306	9.295	9.317	HH	905	11707	1.08%	0.040%
161	9.331	9.317	9.354	HH	1118	18804	1.73%	0.065%
162	9.389	9.354	9.410	HH	1828	38015	3.50%	0.131%
163	9.421	9.410	9.461	HH	1285	25578	2.36%	0.088%
164	9.480	9.461	9.504	HH	645	14301	1.32%	0.049%
165	9.538	9.504	9.555	HH	1144	22113	2.04%	0.076%
166	9.570	9.555	9.602	HH	1003	20509	1.89%	0.071%
167	9.621	9.602	9.637	HH	822	14065	1.30%	0.049%
168	9.675	9.637	9.696	HH	1168	27056	2.49%	0.093%
169	9.720	9.696	9.734	HH	895	17846	1.64%	0.062%
170	9.758	9.734	9.816	HH	4574	80235	7.39%	0.277%
171	9.838	9.816	9.870	HH	1488	34595	3.19%	0.119%
172	9.879	9.870	9.890	HH	1051	11634	1.07%	0.040%
173	9.909	9.890	9.929	HH	1857	31038	2.86%	0.107%
174	9.942	9.929	9.951	HH	990	12458	1.15%	0.043%
175	9.969	9.951	9.998	HH	1402	28607	2.64%	0.099%
176	10.003	9.998	10.009	HH	849	5350	0.49%	0.018%
177	10.040	10.009	10.064	HH	5500	76263	7.03%	0.263%
178	10.084	10.064	10.128	HH	2107	51107	4.71%	0.176%
179	10.132	10.128	10.151	HH	1056	13174	1.21%	0.045%
180	10.181	10.151	10.226	HH	2993	72214	6.65%	0.249%
181	10.248	10.226	10.264	HH	970	19873	1.83%	0.069%
182	10.281	10.264	10.314	HH	1003	24406	2.25%	0.084%
183	10.348	10.314	10.355	HH	942	19588	1.80%	0.068%
184	10.357	10.355	10.381	HH	934	12440	1.15%	0.043%
185	10.384	10.381	10.407	HH	778	10973	1.01%	0.038%
186	10.417	10.407	10.424	HH	710	6652	0.61%	0.023%
187	10.445	10.424	10.459	HH	832	15442	1.42%	0.053%
188	10.475	10.459	10.496	HH	801	16266	1.50%	0.056%
189	10.510	10.496	10.536	HH	1108	22624	2.08%	0.078%
190	10.565	10.536	10.594	HH	1516	38673	3.56%	0.134%
191	10.622	10.594	10.630	HH	1646	28664	2.64%	0.099%
192	10.647	10.630	10.674	HH	2177	42798	3.94%	0.148%
193	10.686	10.674	10.729	HH	1663	40022	3.69%	0.138%
194	10.765	10.729	10.799	HH	1997	57016	5.25%	0.197%

					rteres			
195	10.819	10.799	10.860	HH	2963	67049	6.18%	0.232%
196	10.866	10.860	10.883	HH	1353	17243	1.59%	0.060%
197	10.920	10.883	10.929	HH	2465	49433	4.55%	0.171%
198	10.933	10.929	10.950	HH	2369	26326	2.43%	0.091%
199	10.972	10.950	11.016	HH	3386	93856	8.65%	0.324%
200	11.021	11.016	11.029	HH	1482	10426	0.96%	0.036%
201	11.042	11.029	11.051	HH	1495	18869	1.74%	0.065%
202	11.068	11.051	11.086	HH	1819	31748	2.93%	0.110%
203	11.098	11.086	11.120	HH	1361	26218	2.42%	0.091%
204	11.137	11.120	11.144	HH	1837	22230	2.05%	0.077%
205	11.169	11.144	11.219	HH	45026	527664	48.62%	1.822%
206	11.245	11.219	11.291	HH	11231	173151	15.95%	0.598%
207	11.297	11.291	11.333	HH	1643	38602	3.56%	0.133%
208	11.354	11.333	11.384	HH	1533	42950	3.96%	0.148%
209	11.388	11.384	11.405	HH	1417	17449	1.61%	0.060%
210	11.420	11.405	11.444	HH	1852	37083	3.42%	0.128%
211	11.463	11.444	11.507	HH	3830	85346	7.86%	0.295%
212	11.571	11.507	11.576	HH	1907	66933	6.17%	0.231%
213	11.580	11.576	11.587	HH	1847	12562	1.16%	0.043%
214	11.601	11.587	11.605	HH	1861	19166	1.77%	0.066%
215	11.625	11.605	11.652	HH	2740	60560	5.58%	0.209%
216	11.668	11.652	11.676	HH	2015	26718	2.46%	0.092%
217	11.710	11.676	11.752	HH	3541	108765	10.02%	0.376%
218	11.775	11.752	11.796	HH	2433	52439	4.83%	0.181%
219	11.827	11.796	11.850	HH	2624	67213	6.19%	0.232%
220	11.867	11.850	11.894	HH	2234	51598	4.75%	0.178%
221	11.907	11.894	11.912	HH	1957	20248	1.87%	0.070%
222	11.934	11.912	11.947	HH	2131	42478	3.91%	0.147%
223	11.977	11.947	11.992	HH	7355	110461	10.18%	0.381%
224	12.009	11.992	12.047	HH	8684	142679	13.15%	0.493%
225	12.092	12.047	12.110	HH	7584	166860	15.37%	0.576%
226	12.126	12.110	12.140	HH	5920	80683	7.43%	0.279%
227	12.157	12.140	12.192	HH	7267	126236	11.63%	0.436%
228	12.206	12.192	12.214	HH	2128	27605	2.54%	0.095%
229	12.237	12.214	12.262	HH	2637	68999	6.36%	0.238%
230	12.299	12.262	12.319	HH	3595	96496	8.89%	0.333%
231	12.338	12.319	12.357	HH	4770	79326	7.31%	0.274%
232	12.367	12.357	12.412	HH	2900	87488	8.06%	0.302%
233	12.451	12.412	12.478	HH	6371	139896	12.89%	0.483%
234	12.512	12.478	12.524	HH	2870	73337	6.76%	0.253%
235	12.544	12.524	12.582	HH	6415	135920	12.52%	0.469%
236	12.598	12.582	12.620	HH	3413	70070	6.46%	0.242%
237	12.655	12.620	12.673	HH	3492	95862	8.83%	0.331%
238	12.702	12.673	12.718	HH	3946	91337	8.42%	0.315%
239	12.725	12.718	12.744	HH	3351	47911	4.41%	0.165%
240	12.772	12.744	12.812	HH	4545	147585	13.60%	0.510%
241	12.833	12.812	12.850	HH	5343	95121	8.76%	0.329%
242	12.879	12.850	12.902	HH	8832	184651	17.01%	0.638%
243	12.918	12.902	12.926	HH	4922	63333	5.84%	0.219%
244	12.944	12.926	12.969	HH	6604	127668	11.76%	0.441%
245	12.998	12.969	13.042	HH	72622	911362	83.97%	3.147%
246	13.062	13.042	13.079	HH	3706	71349	6.57%	0.246%

					rteres			
247	13.134	13.079	13.147	HH	4034	148045	13.64%	0.511%
248	13.162	13.147	13.170	HH	4520	59008	5.44%	0.204%
249	13.185	13.170	13.204	HH	5576	99861	9.20%	0.345%
250	13.210	13.204	13.229	HH	4695	64639	5.96%	0.223%
251	13.236	13.229	13.269	HH	4139	90015	8.29%	0.311%
252	13.298	13.269	13.321	HH	66273	804976	74.17%	2.780%
253	13.336	13.321	13.342	HH	7762	87247	8.04%	0.301%
254	13.354	13.342	13.371	HH	9347	125838	11.59%	0.435%
255	13.386	13.371	13.422	HH	9179	176017	16.22%	0.608%
256	13.439	13.422	13.457	HH	4191	80741	7.44%	0.279%
257	13.473	13.457	13.484	HH	5715	82091	7.56%	0.283%
258	13.498	13.484	13.524	HH	6415	122136	11.25%	0.422%
259	13.567	13.524	13.591	HH	7843	203257	18.73%	0.702%
260	13.604	13.591	13.617	HH	4654	72128	6.65%	0.249%
261	13.640	13.617	13.664	HH	5297	130246	12.00%	0.450%
262	13.697	13.664	13.715	HH	5765	146418	13.49%	0.506%
263	13.723	13.715	13.736	HH	4760	56871	5.24%	0.196%
264	13.761	13.736	13.823	HH	8204	285665	26.32%	0.987%
265	13.889	13.823	13.924	HH	13106	407939	37.59%	1.409%
266	13.959	13.924	13.975	HH	5649	153430	14.14%	0.530%
267	14.002	13.975	14.021	HH	15060	265435	24.46%	0.917%
268	14.038	14.021	14.057	HH	9722	158811	14.63%	0.548%
269	14.079	14.057	14.106	HH	6442	170443	15.70%	0.589%
270	14.167	14.106	14.189	HH	10110	362215	33.37%	1.251%
271	14.209	14.189	14.231	HH	9512	188859	17.40%	0.652%
272	14.237	14.231	14.254	HH	5684	73809	6.80%	0.255%
273	14.284	14.254	14.314	HH	6589	211025	19.44%	0.729%
274	14.327	14.314	14.336	HH	5740	74326	6.85%	0.257%
275	14.340	14.336	14.343	HH	5662	20440	1.88%	0.071%
276	14.358	14.343	14.364	HH	6133	76604	7.06%	0.265%
277	14.380	14.364	14.407	HH	6279	154355	14.22%	0.533%
278	14.422	14.407	14.427	HH	5902	71925	6.63%	0.248%
279	14.431	14.427	14.461	HH	5746	111924	10.31%	0.387%
280	14.480	14.461	14.498	HH	5820	127209	11.72%	0.439%
281	14.506	14.498	14.514	HH	5930	54685	5.04%	0.189%
282	14.536	14.514	14.550	HH	6233	127894	11.78%	0.442%
283	14.599	14.550	14.612	HH	7959	270858	24.96%	0.935%
284	14.628	14.612	14.669	HH	10581	267227	24.62%	0.923%
285	14.681	14.669	14.686	HH	6539	64909	5.98%	0.224%
286	14.709	14.686	14.722	HH	8352	167537	15.44%	0.579%
287	14.728	14.722	14.754	HH	7704	136721	12.60%	0.472%
288	14.769	14.754	14.780	HH	7387	113098	10.42%	0.391%
289	14.807	14.780	14.825	HH	10987	240271	22.14%	0.830%
290	14.830	14.825	14.846	HH	8001	99560	9.17%	0.344%
291	14.871	14.846	14.894	HH	15350	307264	28.31%	1.061%
292	14.931	14.894	14.966	HH	11645	383001	35.29%	1.323%
293	14.994	14.966	15.013	HH	8292	220179	20.29%	0.760%
294	15.048	15.013	15.111	HH	19017	602350	55.50%	2.080%
295	15.136	15.111	15.155	HH	9415	217550	20.04%	0.751%
296	15.183	15.155	15.203	HH	41606	611419	56.33%	2.112%
297	15.225	15.203	15.267	HH	38054	674532	62.15%	2.329%
298	15.274	15.267	15.289	HH	8629	113501	10.46%	0.392%
299	15.293	15.289	15.304	HH	8262	70670	6.51%	0.244%

					rteres			
300	15.346	15.304	15.396	HH	14804	549612	50.64%	1.898%
301	15.426	15.396	15.458	HH	10793	346249	31.90%	1.196%
302	15.488	15.458	15.512	HH	11472	319181	29.41%	1.102%
303	15.533	15.512	15.584	HH	10849	421778	38.86%	1.457%
304	15.588	15.584	15.591	HH	8894	35507	3.27%	0.123%
305	15.632	15.591	15.662	HH	15082	482468	44.45%	1.666%
306	15.671	15.662	15.690	HH	10551	169012	15.57%	0.584%
307	15.698	15.690	15.709	HH	9630	108940	10.04%	0.376%
308	15.738	15.709	15.744	HH	9789	196121	18.07%	0.677%
309	15.776	15.744	15.791	HH	11134	292088	26.91%	1.009%
310	15.796	15.791	15.802	HH	10562	70555	6.50%	0.244%
311	15.819	15.802	15.841	HH	11549	256379	23.62%	0.885%
312	15.860	15.841	15.882	HH	16659	335973	30.95%	1.160%
313	15.898	15.882	15.929	HH	13277	327979	30.22%	1.133%
314	15.944	15.929	15.955	HH	11681	179639	16.55%	0.620%
315	15.971	15.955	15.978	HH	11423	154858	14.27%	0.535%
316	16.023	15.978	16.058	HH	14702	616616	56.81%	2.129%
317	16.099	16.058	16.128	HH	13082	500682	46.13%	1.729%
318	16.141	16.128	16.147	HH	11838	138309	12.74%	0.478%
319	16.184	16.147	16.201	HH	13126	395084	36.40%	1.364%
320	16.219	16.201	16.240	HH	13452	293661	27.06%	1.014%
321	16.284	16.240	16.313	HH	14257	574829	52.96%	1.985%
322	16.391	16.313	16.402	HH	12777	672676	61.98%	2.323%
323	16.423	16.402	16.435	HH	12923	249011	22.94%	0.860%
324	16.473	16.435	16.490	HH	14645	455752	41.99%	1.574%
325	16.495	16.490	16.513	HH	13808	188741	17.39%	0.652%
326	16.534	16.513	16.553	HH	15124	344113	31.70%	1.188%
327	16.569	16.553	16.600	HH	15187	413178	38.07%	1.427%
328	16.655	16.623	16.666	HH	16952	406683	37.47%	1.404%
329	16.675	16.666	16.702	HH	16930	348641	32.12%	1.204%
330	16.748	16.702	16.767	HH	51276	1085360	100.00%	3.748%
331	16.775	16.767	16.816	HH	29553	620548	57.17%	2.143%
					Sum of corrected areas:	28956218		

FG011325.M Fri Jan 31 06:40:22 2025



CALIBRATION SUMMARY

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: RUTW01
 ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
 Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG No.: Q1216

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

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

Instrument :
 FID_G
 ClientSampleId :
 50 TRPH STD

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

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.054	7020283	50.000 ug/ml
Target Compounds			
1) N-OCTANE	2.014	6179916	50.000 ug/ml
2) N-DECANE	4.549	7270974	50.000 ug/ml
3) N-DODECANE	6.730	7616617	50.000 ug/ml
4) N-TETRADECANE	8.567	7839892	50.000 ug/ml
5) N-HEXADECANE	10.182	7974057	50.000 ug/ml
6) N-OCTADECANE	11.633	8177811	50.000 ug/ml
7) N-EICOSANE	12.948	8277142	50.000 ug/ml
8) N-DOCOSANE	14.150	8032457	50.000 ug/ml
10) N-TETRACOSANE	15.259	7977467	50.000 ug/ml
11) N-HEXACOSANE	16.285	7920800	50.000 ug/ml
12) N-OCTACOSANE	17.238	7876189	50.000 ug/ml
13) N-TRIACONTANE	18.129	8146929	50.000 ug/ml
14) N-DOTRIACONTANE	18.963	7971620	50.000 ug/ml
15) N-TETRATRIACONTANE	19.748	7395720	50.000 ug/ml
16) N-HEXATRIACONTANE	20.490	6634985	50.000 ug/ml
17) N-OCTATRIACONTANE	21.240	6083503	50.000 ug/ml
18) N-TETRACONTANE	22.181	5653958	50.000 ug/ml

(f)=RT Delta > 1/2 Window

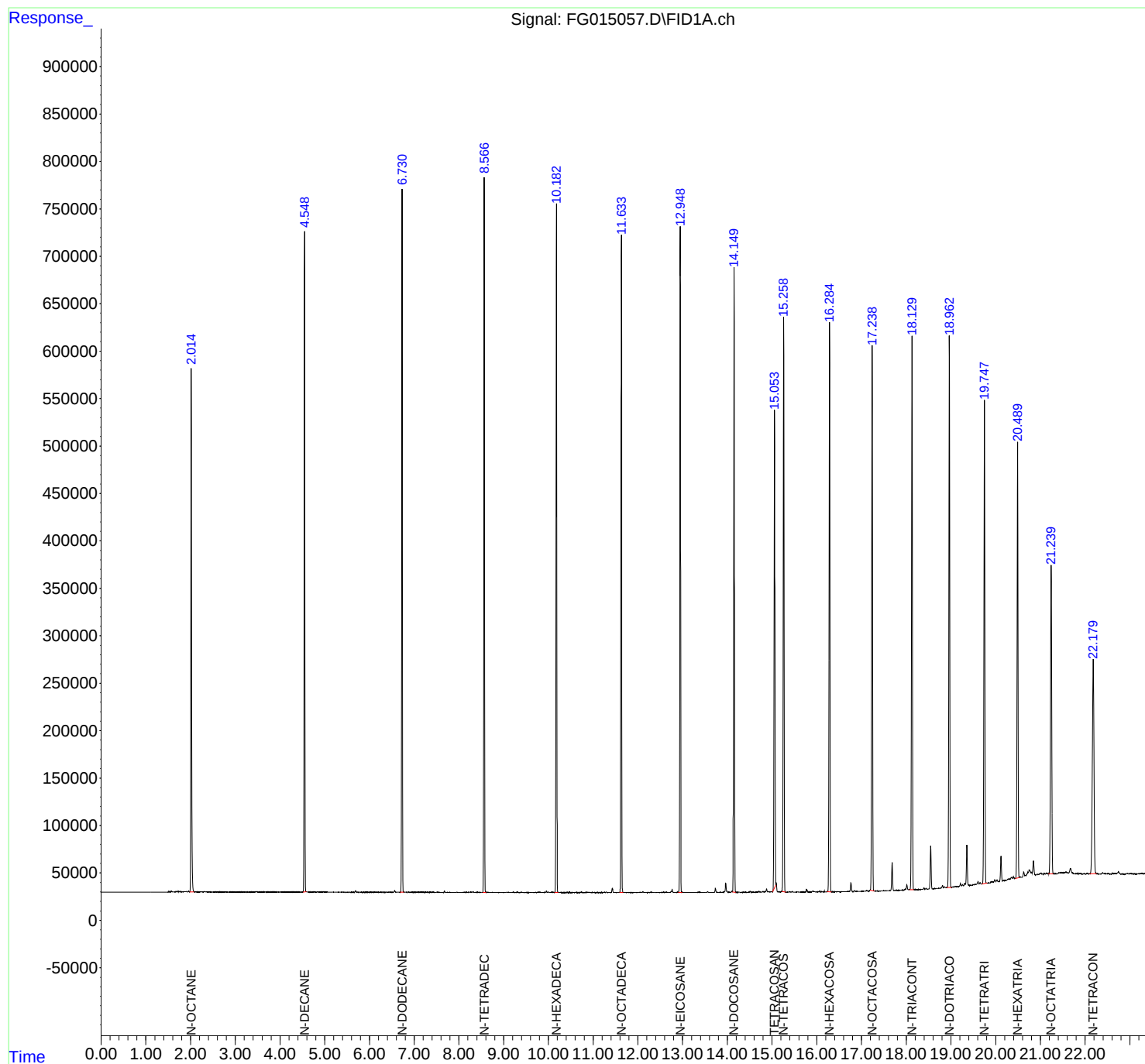
(m)=manual int.

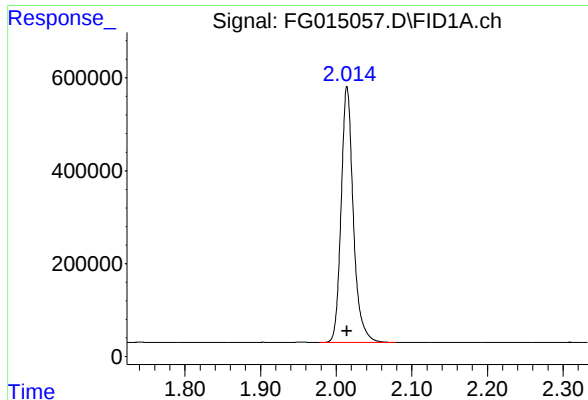
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015057.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 09:45
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 TRPH STD

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

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

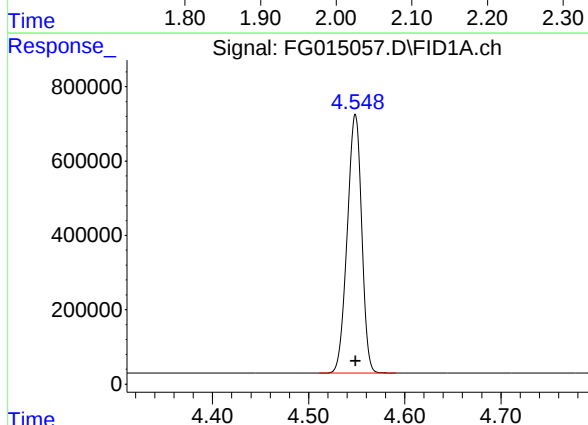




#1 N-OCTANE

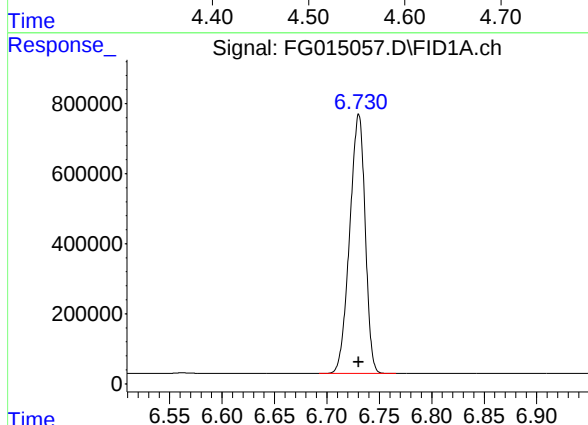
R.T.: 2.014 min
Delta R.T.: 0.000 min
Response: 6179916
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



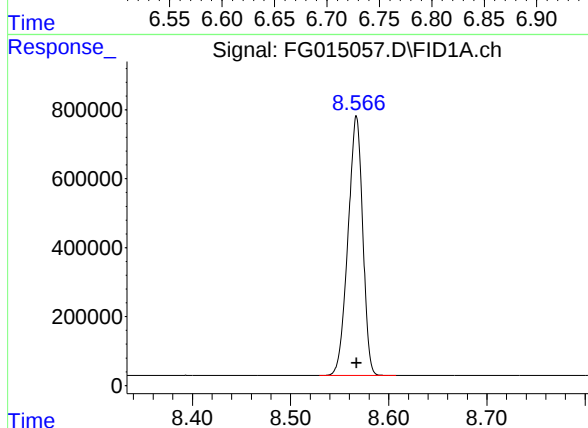
#2 N-DECANE

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



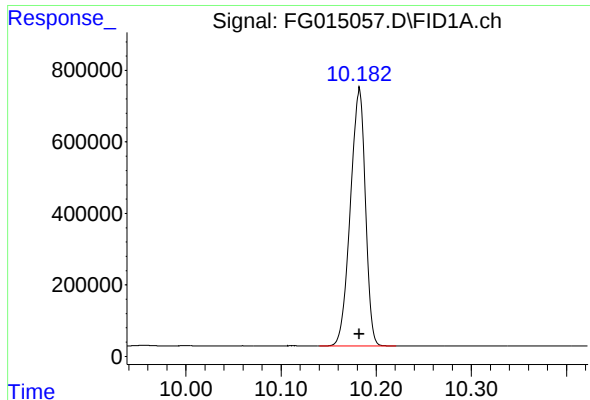
#3 N-DODECANE

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



#4 N-TETRADECANE

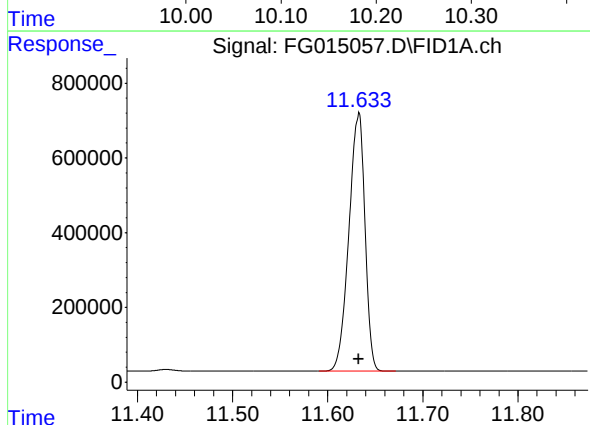
R.T.: 8.567 min
Delta R.T.: 0.000 min
Response: 7839892
Conc: 50.00 ug/ml



#5 N-HEXADECANE

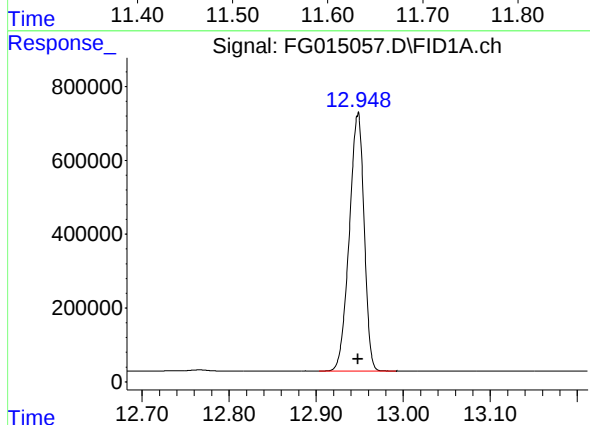
R.T.: 10.182 min
Delta R.T.: 0.000 min
Response: 7974057
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



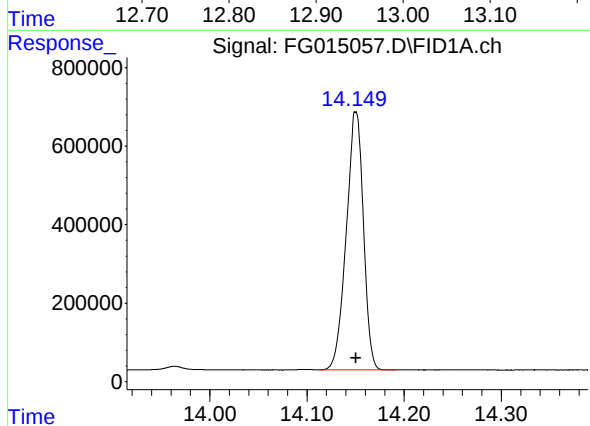
#6 N-OCTADECANE

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



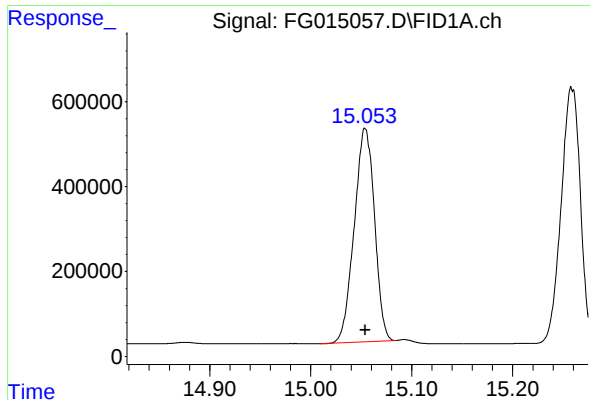
#7 N-EICOSANE

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



#8 N-DOCOSANE

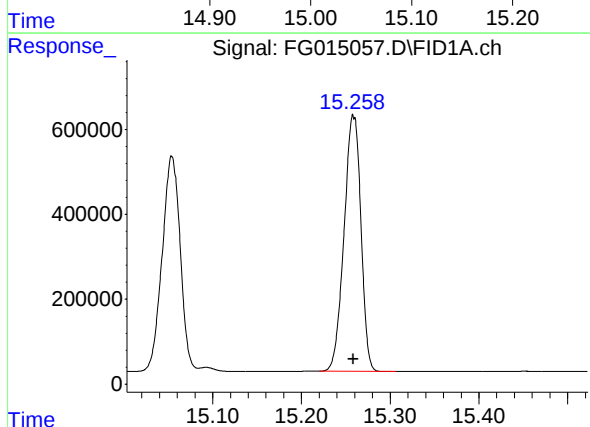
R.T.: 14.150 min
Delta R.T.: 0.000 min
Response: 8032457
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

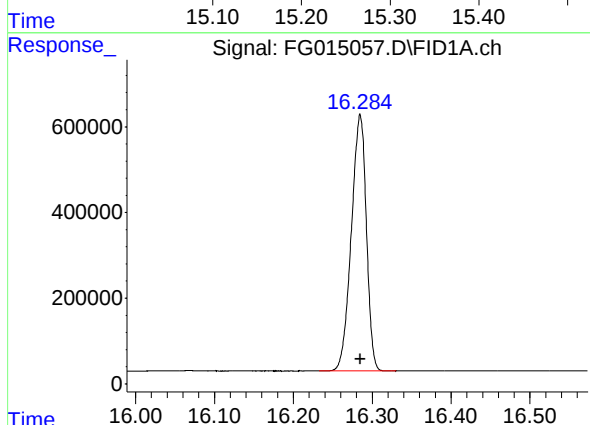
R.T.: 15.054 min
Delta R.T.: 0.000 min
Response: 7020283
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



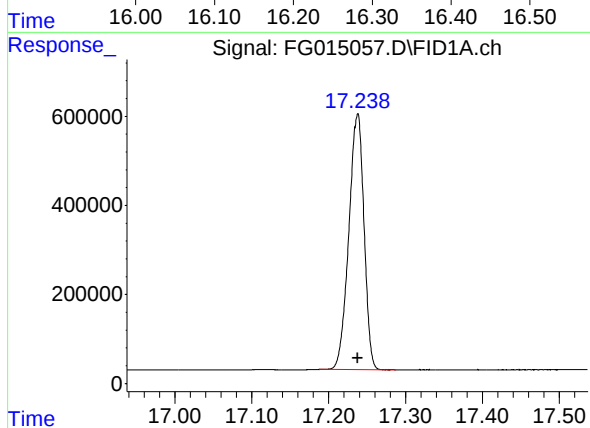
#10 N-TETRACOSANE

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



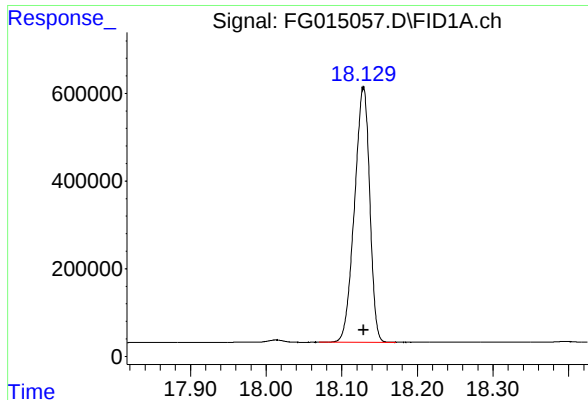
#11 N-HEXACOSANE

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



#12 N-OCTACOSANE

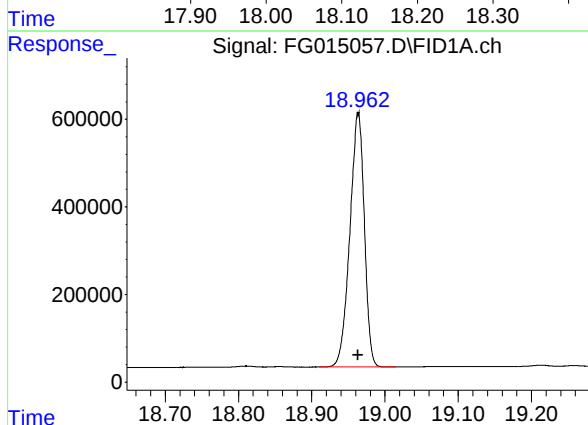
R.T.: 17.238 min
Delta R.T.: 0.000 min
Response: 7876189
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

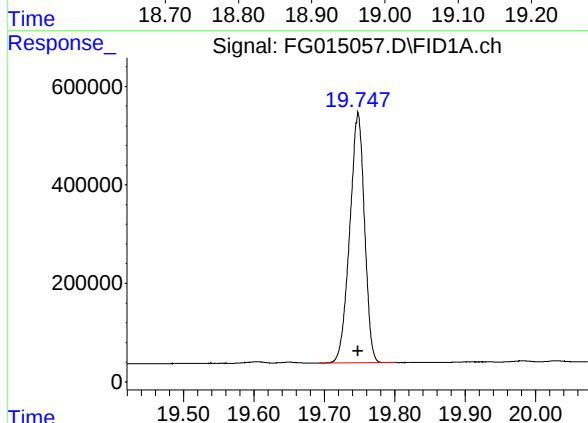
R.T.: 18.129 min
Delta R.T.: 0.000 min
Response: 8146929
Conc: 50.00 ug/ml

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



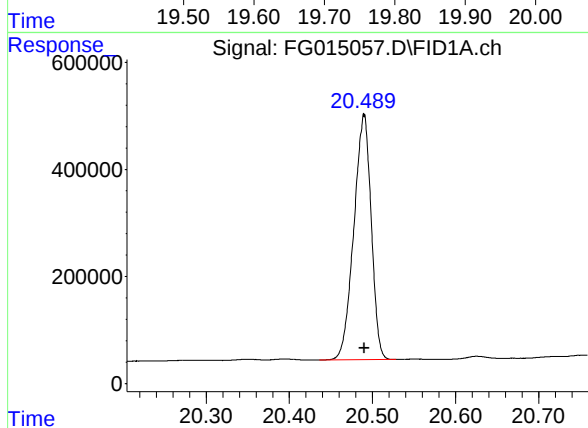
#14 N-DOTRIACONTANE

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



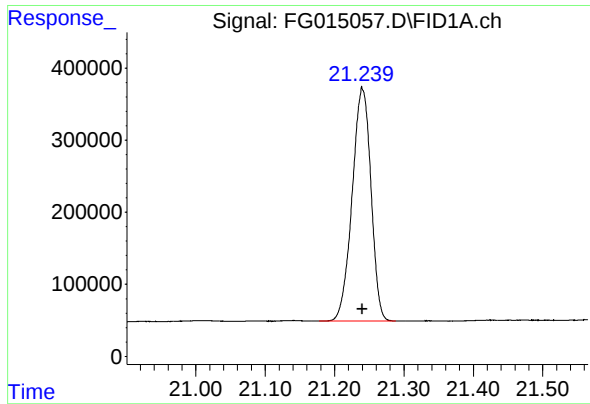
#15 N-TETRATRIACONTANE

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



#16 N-HEXATRIACONTANE

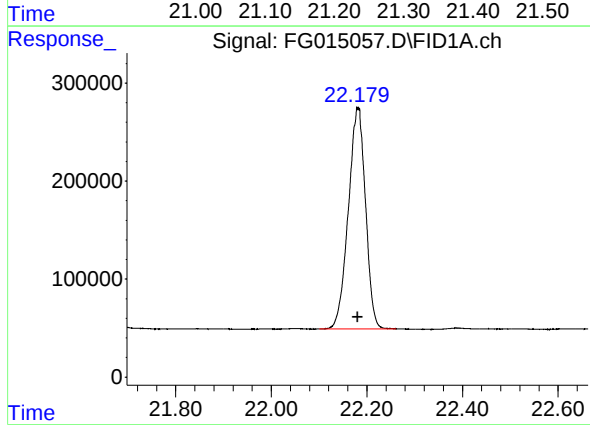
R.T.: 20.490 min
Delta R.T.: 0.000 min
Response: 6634985
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

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

Instrument :
FID_G
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.014	1.978	2.079	BB	551414	6179916	74.66%	4.610%
2	4.549	4.511	4.591	BB	696147	7270974	87.84%	5.424%
3	6.730	6.692	6.766	BB	739657	7616617	92.02%	5.682%
4	8.567	8.529	8.607	BB	750879	7839892	94.72%	5.848%
5	10.182	10.140	10.221	BB	724423	7974057	96.34%	5.949%
6	11.633	11.591	11.672	BB	690757	8177811	98.80%	6.101%
7	12.948	12.903	12.992	BB	698654	8277142	100.00%	6.175%
8	14.150	14.113	14.192	BB	656408	8032457	97.04%	5.992%
9	15.054	15.008	15.084	BV	501666	7020283	84.82%	5.237%
10	15.259	15.220	15.307	BB	601503	7977467	96.38%	5.951%
11	16.285	16.233	16.330	BB	597903	7920800	95.69%	5.909%
12	17.238	17.188	17.288	BB	574153	7876189	95.16%	5.876%
13	18.129	18.070	18.172	BB	577515	8146929	98.43%	6.078%
14	18.963	18.910	19.015	BB	575018	7971620	96.31%	5.947%
15	19.748	19.693	19.802	BB	508301	7395720	89.35%	5.517%
16	20.490	20.436	20.528	BB	454742	6634985	80.16%	4.950%
17	21.240	21.178	21.288	BB	321864	6083503	73.50%	4.538%
18	22.181	22.100	22.261	BB	226107	5653958	68.31%	4.218%
Sum of corrected areas:						134050320		

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

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

Instrument :
 FID_G
 ClientSampleId :
 20 TRPH STD

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

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

Compound	R.T.	Response	Conc Units

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

(f)=RT Delta > 1/2 Window

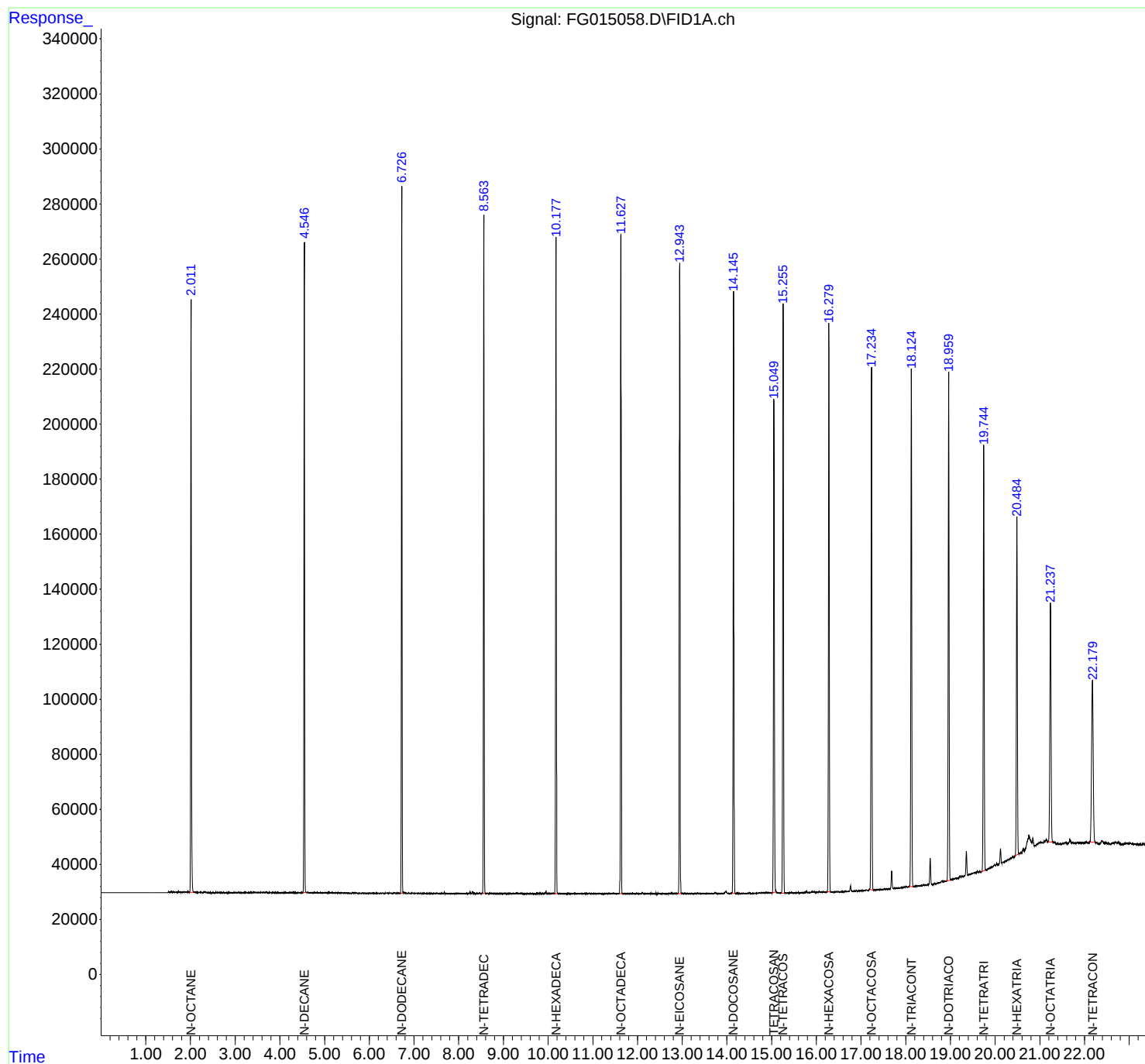
(m)=manual int.

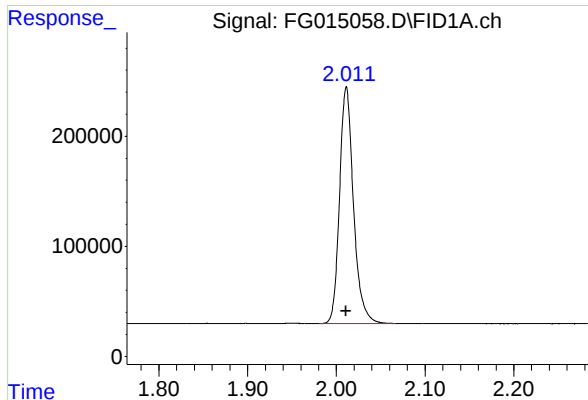
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015058.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 10:14
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 TRPH STD

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

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

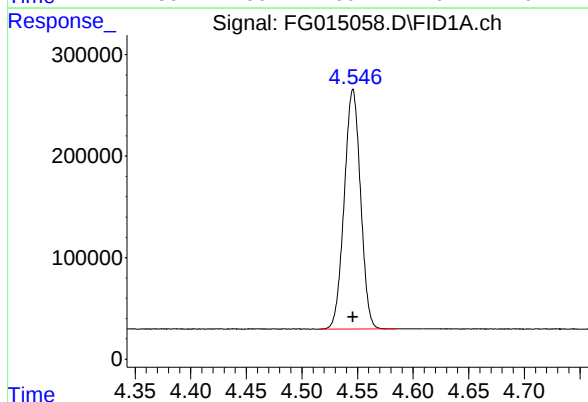




#1 N-OCTANE

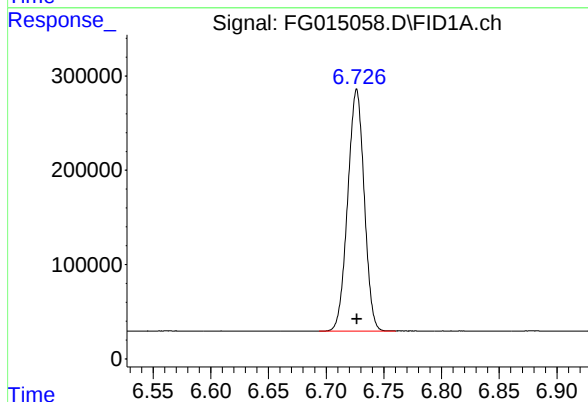
R.T.: 2.011 min
Delta R.T.: 0.000 min
Response: 2347743
Conc: 19.56 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



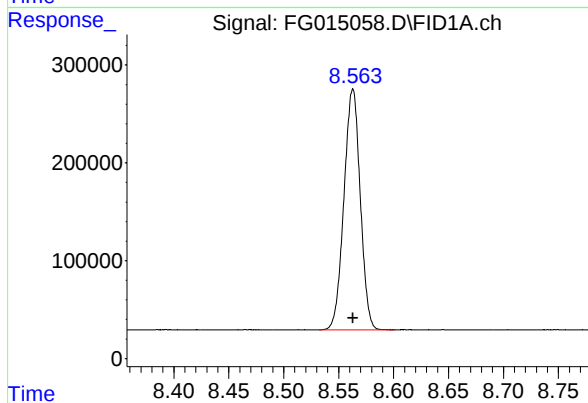
#2 N-DECANE

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



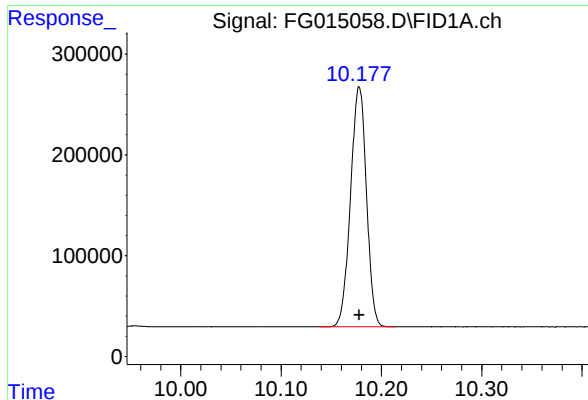
#3 N-DODECANE

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



#4 N-TETRADECANE

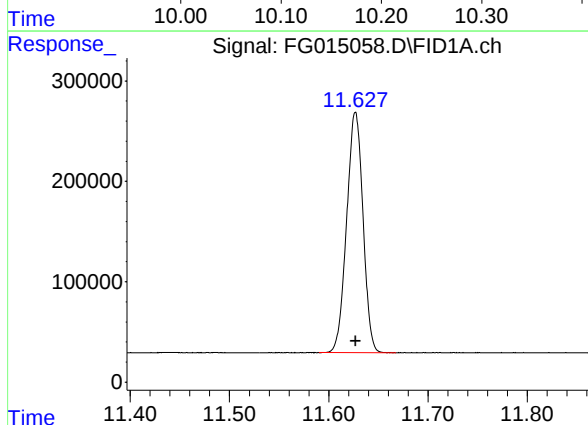
R.T.: 8.563 min
Delta R.T.: 0.000 min
Response: 2539205
Conc: 18.52 ug/ml



#5 N-HEXADECANE

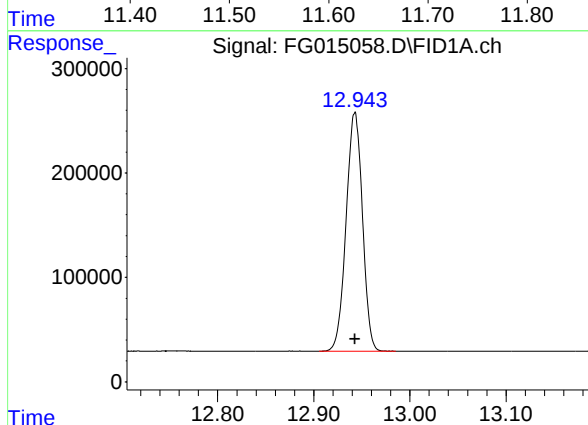
R.T.: 10.178 min
Delta R.T.: 0.000 min
Response: 2630204
Conc: 18.68 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



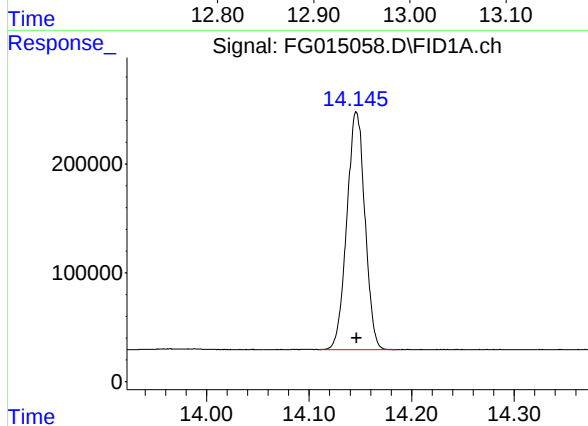
#6 N-OCTADECANE

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



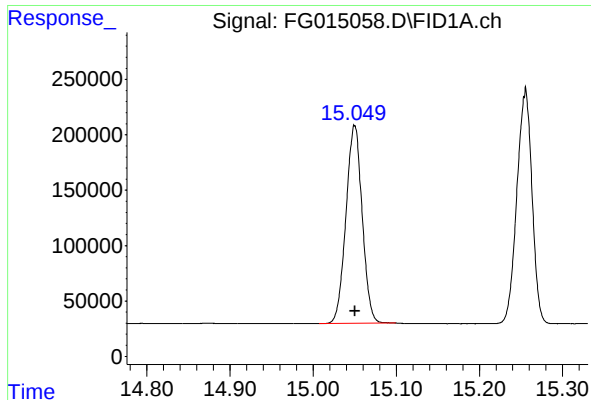
#7 N-EICOSANE

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



#8 N-DOCOSANE

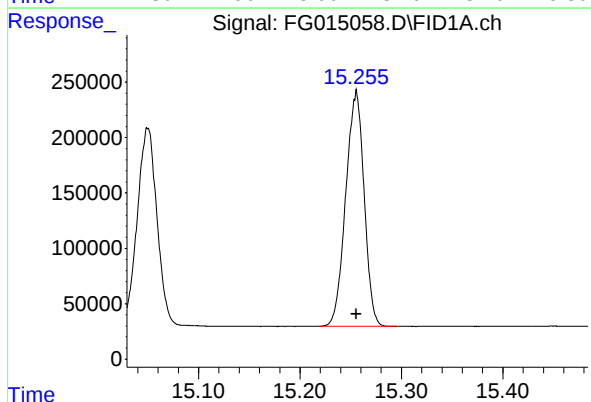
R.T.: 14.146 min
Delta R.T.: 0.000 min
Response: 2682390
Conc: 18.77 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

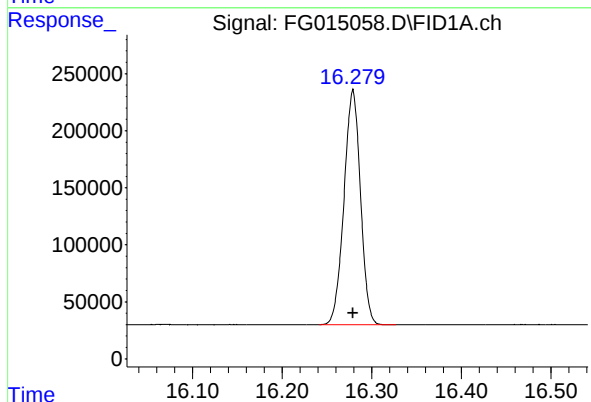
R.T.: 15.050 min
Delta R.T.: 0.000 min
Response: 2426477
Conc: 18.99 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



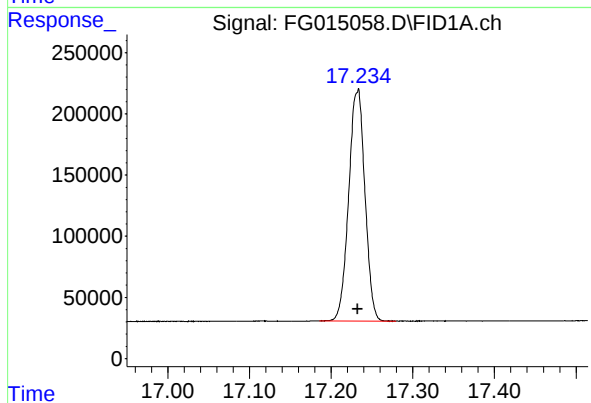
#10 N-TETRACOSANE

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



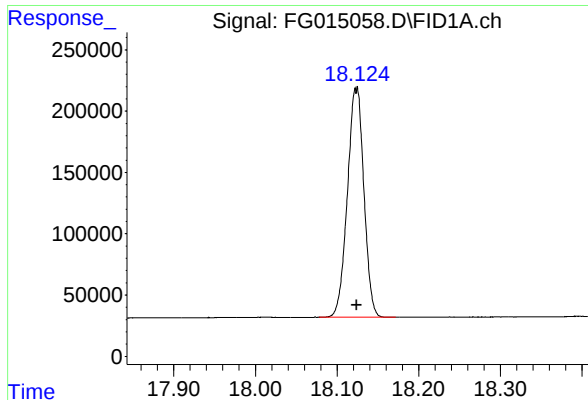
#11 N-HEXACOSANE

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



#12 N-OCTACOSANE

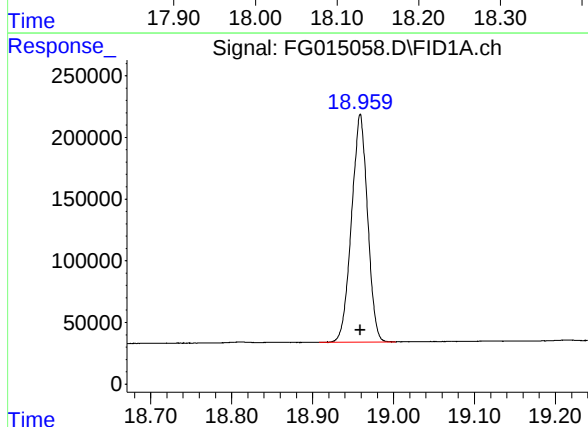
R.T.: 17.233 min
Delta R.T.: 0.000 min
Response: 2611804
Conc: 18.84 ug/ml



#13 N-TRIACONTANE

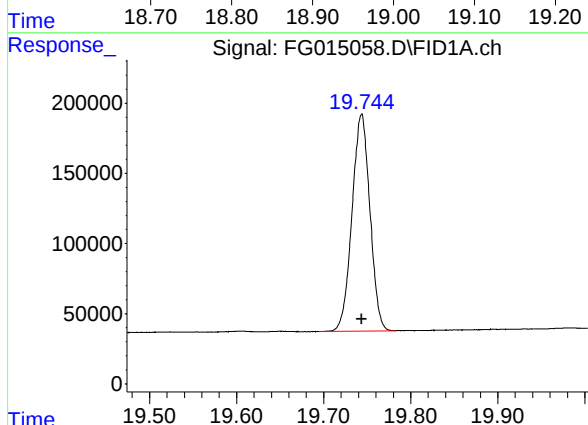
R.T.: 18.124 min
Delta R.T.: 0.000 min
Response: 2626561
Conc: 18.79 ug/ml

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



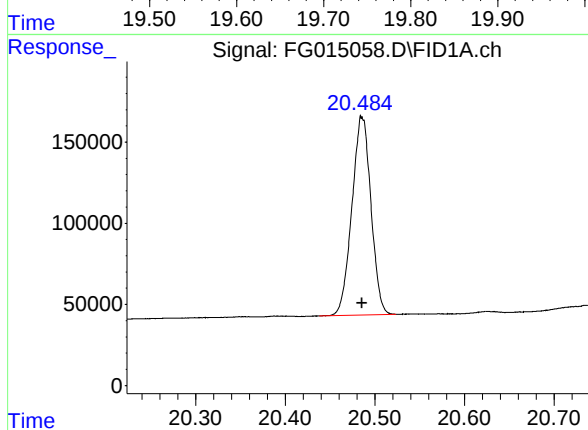
#14 N-DOTRIACONTANE

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



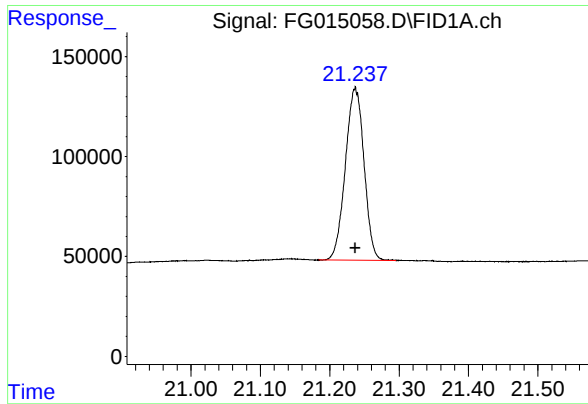
#15 N-TETRATRIACONTANE

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



#16 N-HEXATRIACONTANE

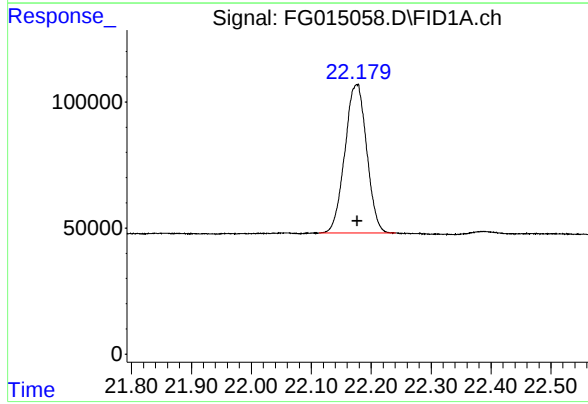
R.T.: 20.486 min
Delta R.T.: 0.000 min
Response: 1807283
Conc: 17.10 ug/ml



#17 N-OCTATRIACONTANE

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

Instrument :
FID_G
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

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

Instrument :
 FID_G
 ClientSampleId :
 10 TRPH STD

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

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.049	1319274	10.242 ug/ml
Target Compounds			
1) N-OCTANE	2.012	1276191	10.466 ug/ml
2) N-DECANE	4.545	1314669	10.121 ug/ml
3) N-DODECANE	6.726	1389408	10.155 ug/ml
4) N-TETRADECANE	8.563	1386903	10.086 ug/ml
5) N-HEXADECANE	10.177	1437974	10.157 ug/ml
6) N-OCTADECANE	11.627	1501248	10.215 ug/ml
7) N-EICOSANE	12.942	1478786	10.132 ug/ml
8) N-DOCOSANE	14.146	1466497	10.196 ug/ml
10) N-TETRACOSANE	15.254	1461022	10.206 ug/ml
11) N-HEXACOSANE	16.278	1440458	10.200 ug/ml
12) N-OCTACOSANE	17.231	1437456	10.273 ug/ml
13) N-TRIACONTANE	18.121	1459210	10.327 ug/ml
14) N-DOTRIACONTANE	18.957	1433212	10.423 ug/ml
15) N-TETRATRIACONTANE	19.741	1288019	10.388 ug/ml
16) N-HEXATRIACONTANE	20.484	1102769	10.322 ug/ml
17) N-OCTATRIACONTANE	21.236	1010014	10.398 ug/ml
18) N-TETRACONTANE	22.175	952991	10.563 ug/ml

(f)=RT Delta > 1/2 Window

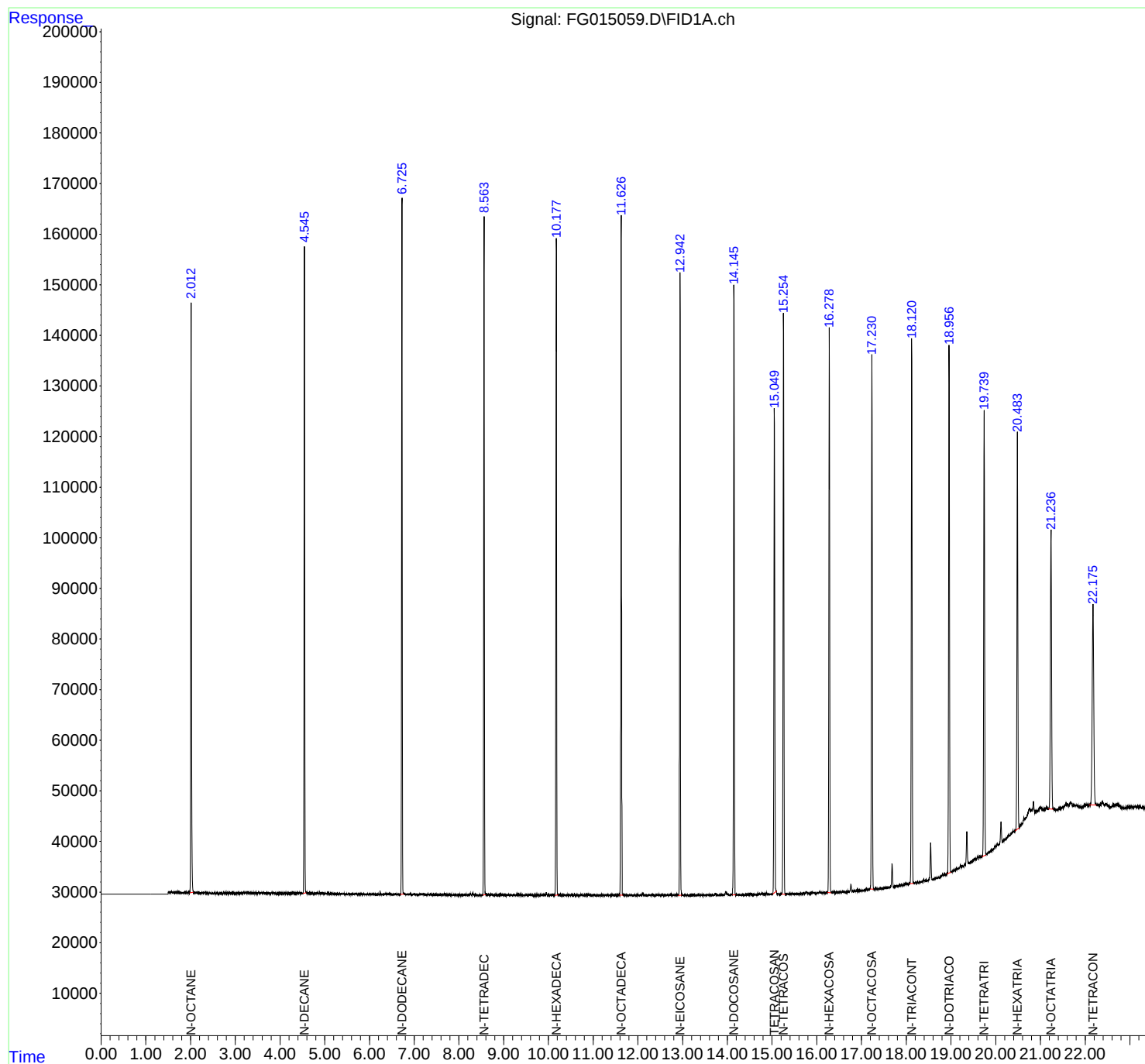
(m)=manual int.

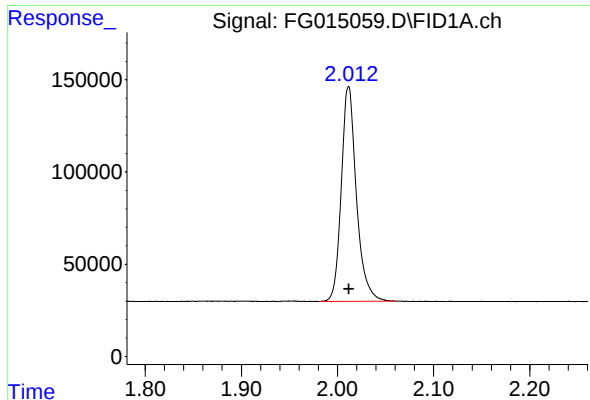
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015059.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 10:42
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 TRPH STD

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

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

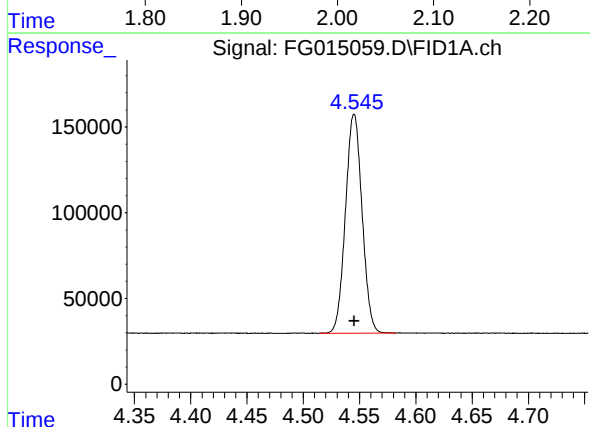




#1 N-OCTANE

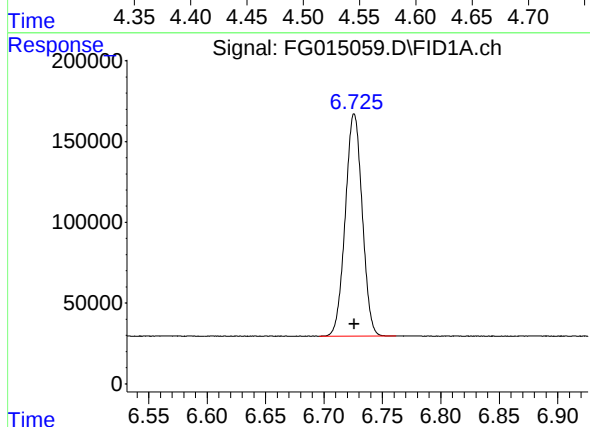
R.T.: 2.012 min
Delta R.T.: 0.000 min
Response: 1276191
Conc: 10.47 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



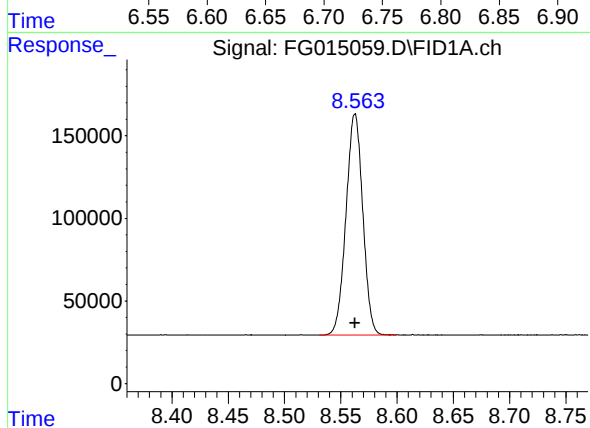
#2 N-DECANE

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



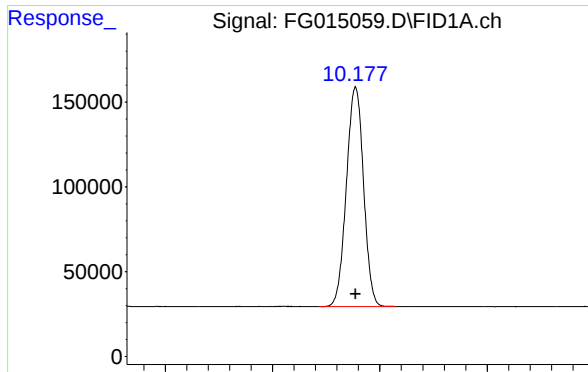
#3 N-DODECANE

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



#4 N-TETRADECANE

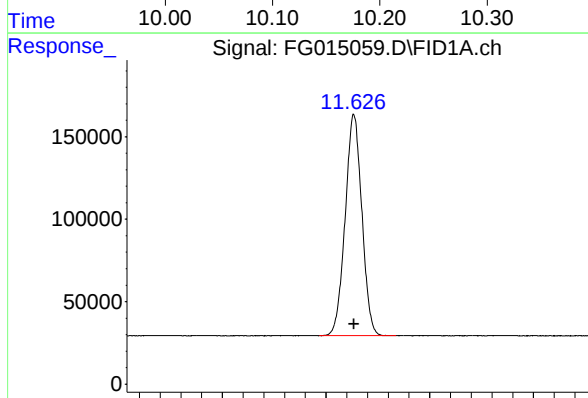
R.T.: 8.563 min
Delta R.T.: 0.000 min
Response: 1386903
Conc: 10.09 ug/ml



#5 N-HEXADECANE

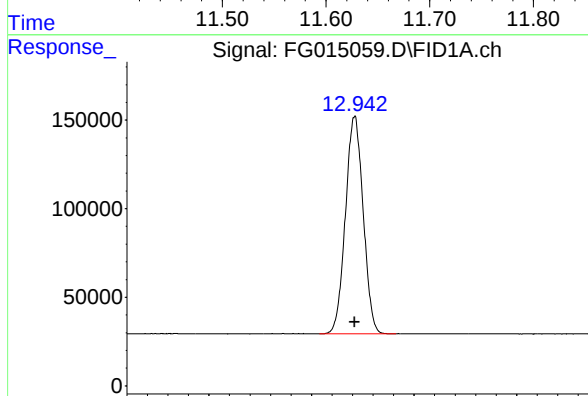
R.T.: 10.177 min
Delta R.T.: 0.000 min
Response: 1437974
Conc: 10.16 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



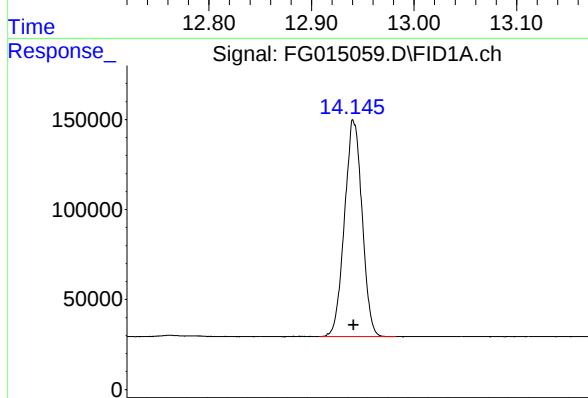
#6 N-OCTADECANE

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



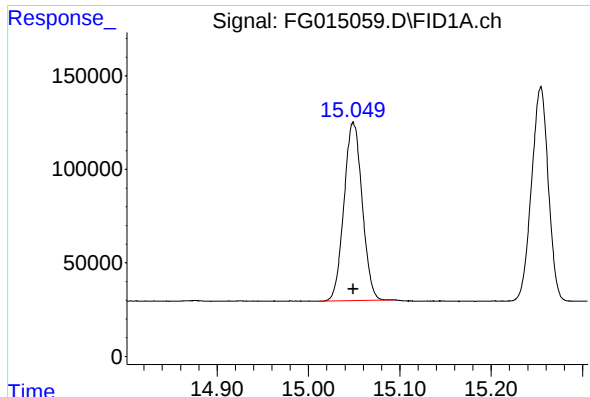
#7 N-EICOSANE

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



#8 N-DOCOSANE

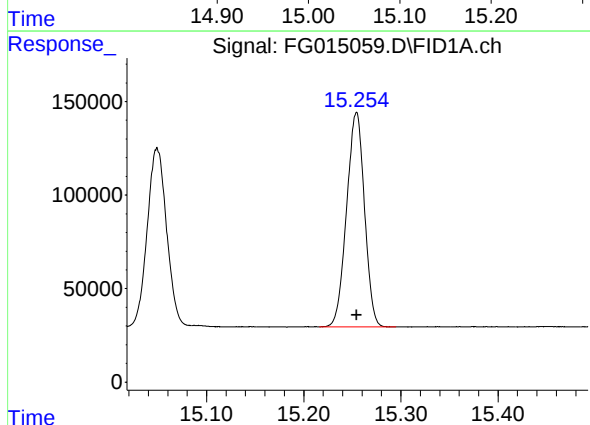
R.T.: 14.146 min
Delta R.T.: 0.000 min
Response: 1466497
Conc: 10.20 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

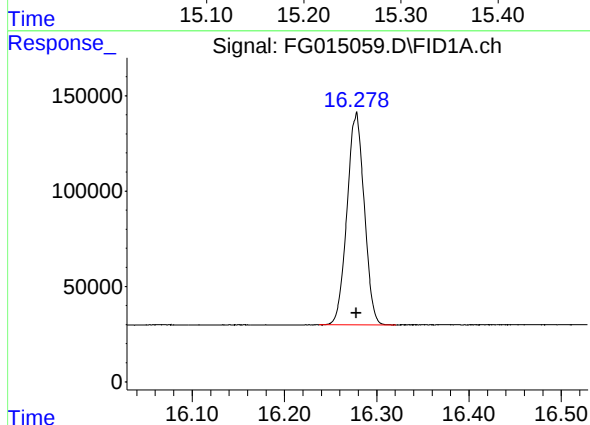
R.T.: 15.049 min
Delta R.T.: 0.000 min
Response: 1319274
Conc: 10.24 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



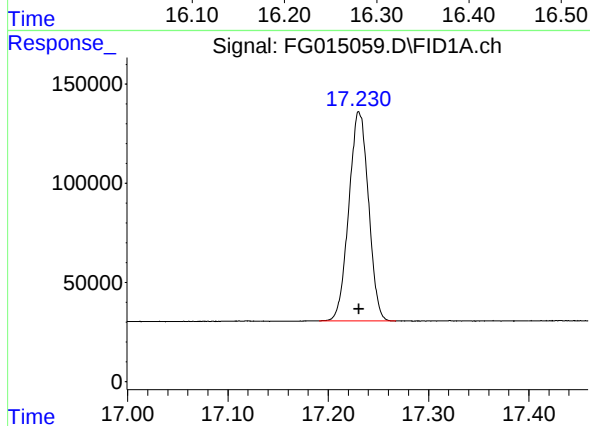
#10 N-TETRACOSANE

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



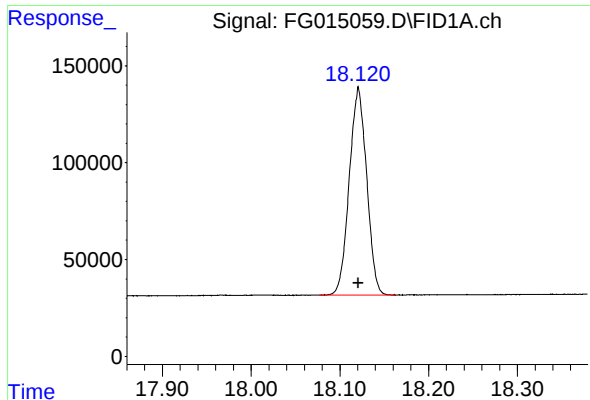
#11 N-HEXACOSANE

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



#12 N-OCTACOSANE

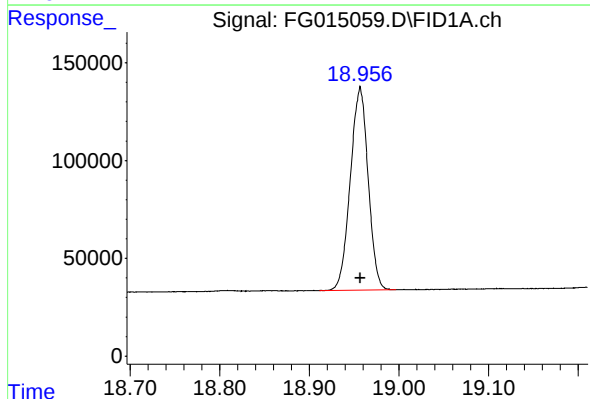
R.T.: 17.231 min
Delta R.T.: 0.000 min
Response: 1437456
Conc: 10.27 ug/ml



#13 N-TRIACONTANE

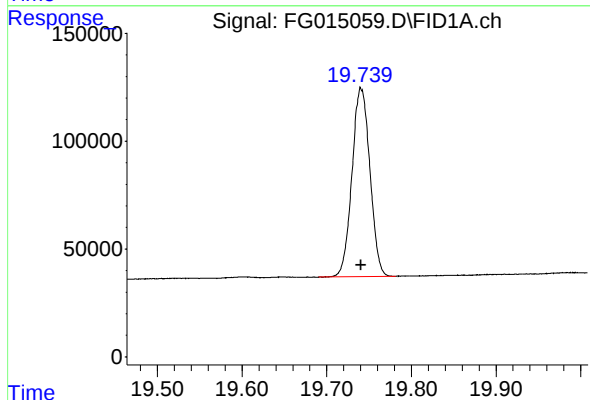
R.T.: 18.121 min
Delta R.T.: 0.000 min
Response: 1459210
Conc: 10.33 ug/ml

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



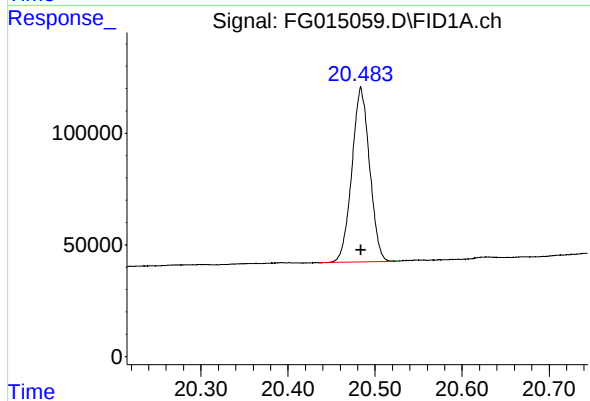
#14 N-DOTRIACONTANE

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



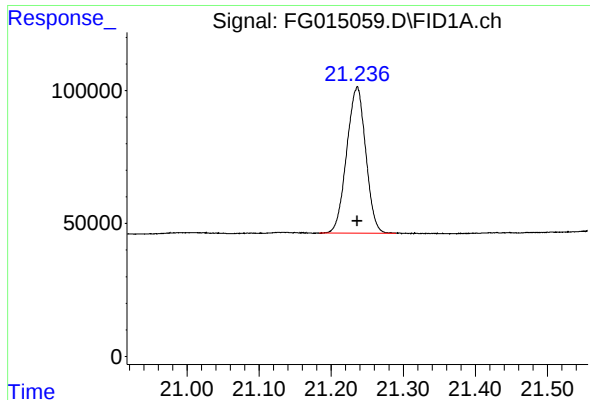
#15 N-TETRATRIACONTANE

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



#16 N-HEXATRIACONTANE

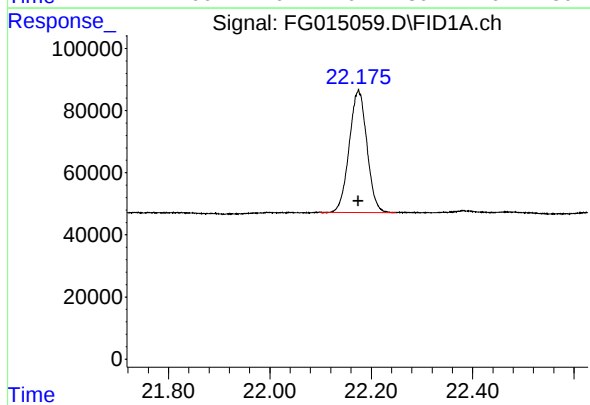
R.T.: 20.484 min
Delta R.T.: 0.000 min
Response: 1102769
Conc: 10.32 ug/ml



#17 N-OCTATRIACONTANE

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

Instrument :
FID_G
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

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

Instrument :
 FID_G
 ClientSampleId :
 5 TRPH STD

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

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.048	648631	5.029 ug/ml
Target Compounds			
1) N-OCTANE	2.012	634654	5.162 ug/ml
2) N-DECANE	4.546	654008	5.028 ug/ml
3) N-DODECANE	6.726	692533	5.049 ug/ml
4) N-TETRADECANE	8.563	693227	5.033 ug/ml
5) N-HEXADECANE	10.177	716946	5.051 ug/ml
6) N-OCTADECANE	11.627	747864	5.071 ug/ml
7) N-EICOSANE	12.942	734881	5.028 ug/ml
8) N-DOCOSANE	14.146	728625	5.053 ug/ml
10) N-TETRACOSANE	15.254	725335	5.053 ug/ml
11) N-HEXACOSANE	16.277	714017	5.045 ug/ml
12) N-OCTACOSANE	17.231	719588	5.113 ug/ml
13) N-TRIACONTANE	18.121	746793	5.225 ug/ml
14) N-DOTRIACONTANE	18.956	739109	5.296 ug/ml
15) N-TETRATRIACONTANE	19.742	661594	5.265 ug/ml
16) N-HEXATRIACONTANE	20.483	565434	5.231 ug/ml
17) N-OCTATRIACONTANE	21.234	509611	5.195 ug/ml
18) N-TETRACONTANE	22.172	475271	5.212 ug/ml

(f)=RT Delta > 1/2 Window

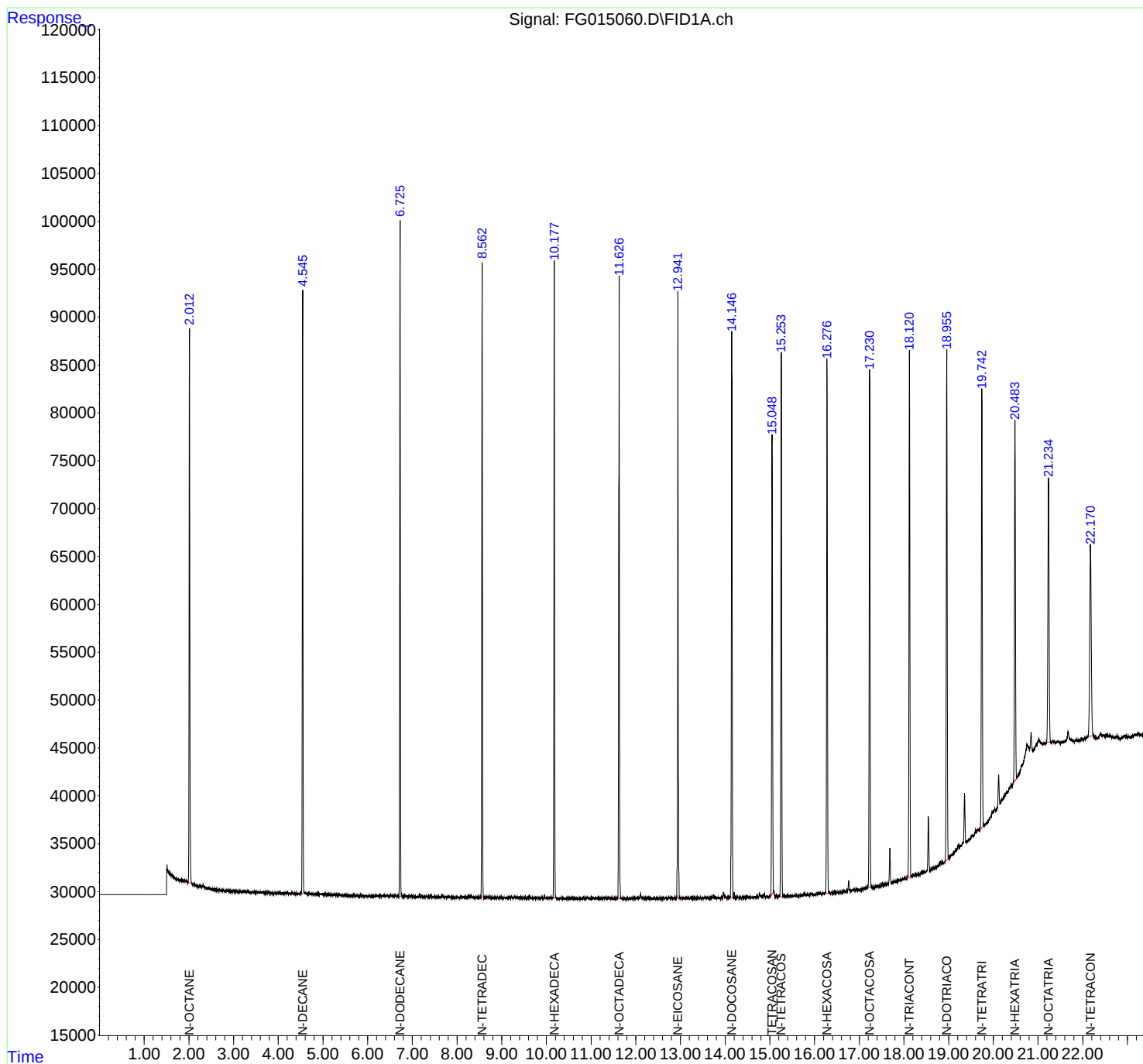
(m)=manual int.

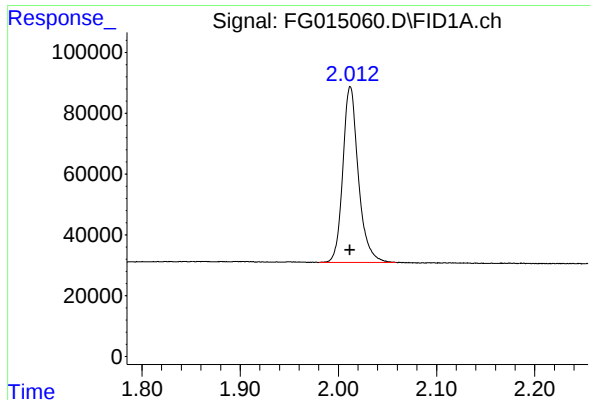
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015060.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 11:11
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 TRPH STD

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

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

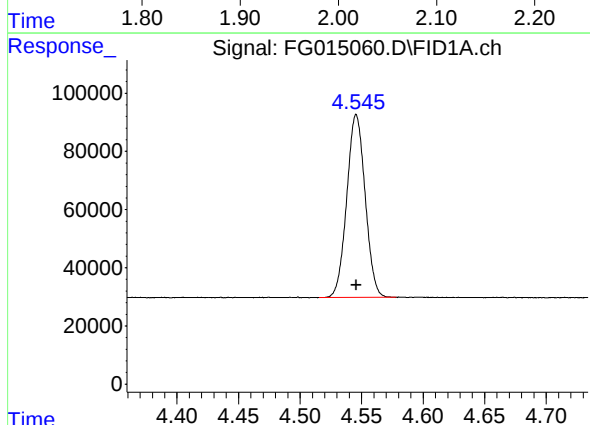




#1 N-OCTANE

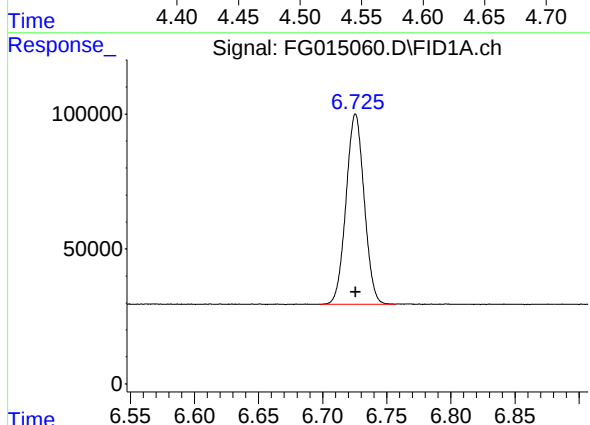
R.T.: 2.012 min
Delta R.T.: 0.000 min
Response: 634654
Conc: 5.16 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



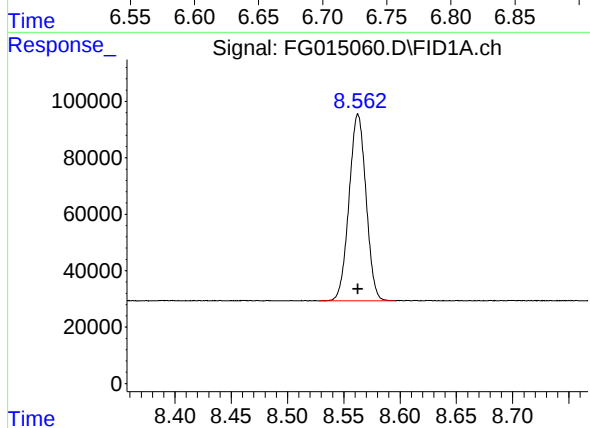
#2 N-DECANE

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



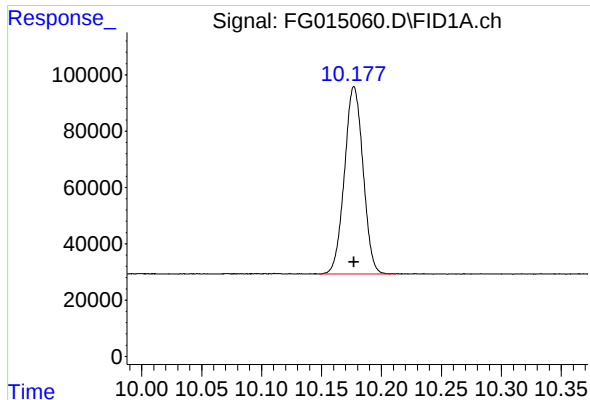
#3 N-DODECANE

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



#4 N-TETRADECANE

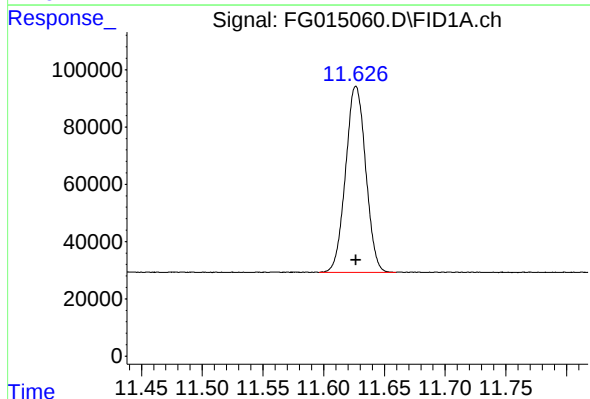
R.T.: 8.563 min
Delta R.T.: 0.000 min
Response: 693227
Conc: 5.03 ug/ml



#5 N-HEXADECANE

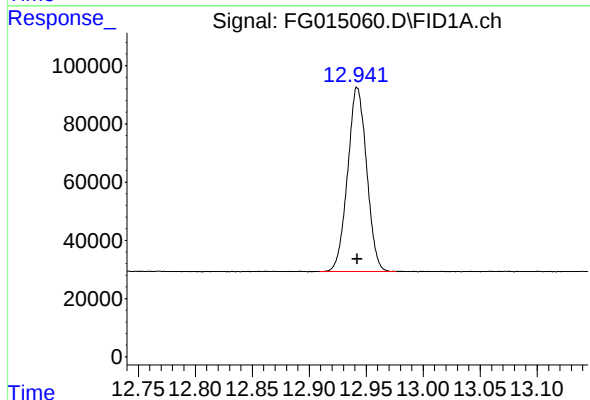
R.T.: 10.177 min
Delta R.T.: 0.000 min
Response: 716946
Conc: 5.05 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



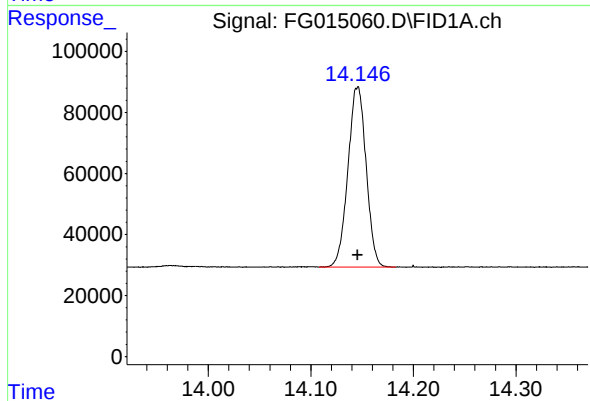
#6 N-OCTADECANE

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



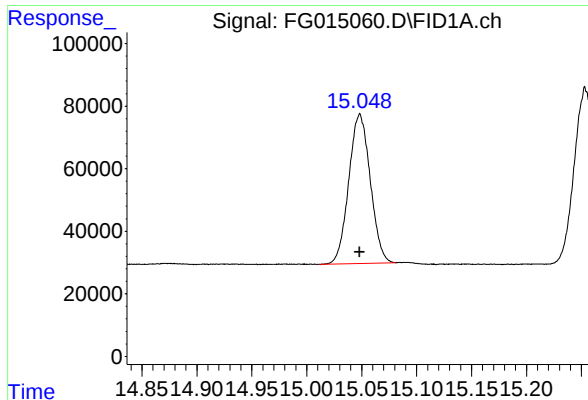
#7 N-EICOSANE

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



#8 N-DOCOSANE

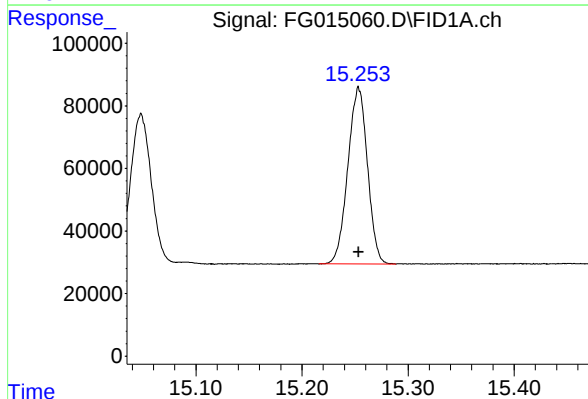
R.T.: 14.146 min
Delta R.T.: 0.000 min
Response: 728625
Conc: 5.05 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

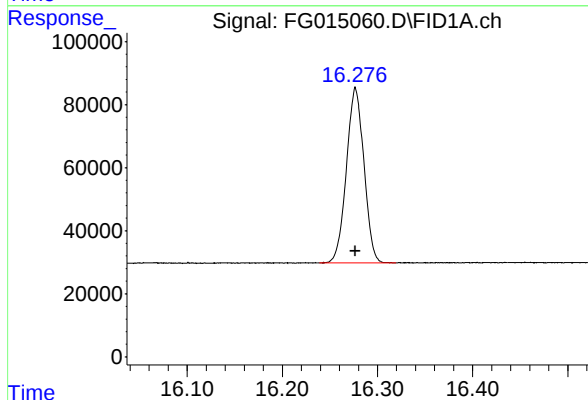
R.T.: 15.048 min
Delta R.T.: 0.000 min
Response: 648631
Conc: 5.03 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



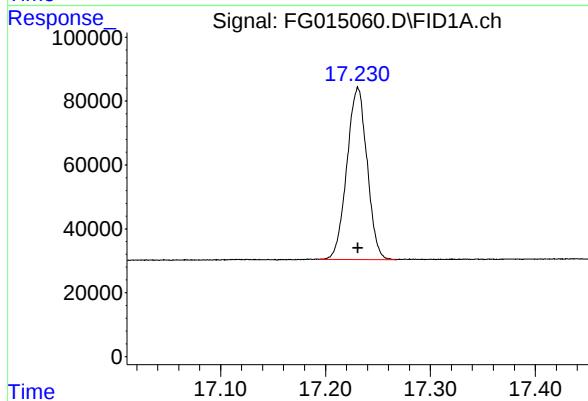
#10 N-TETRACOSANE

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



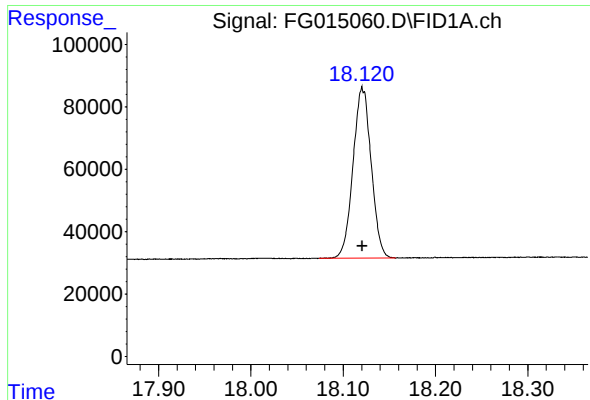
#11 N-HEXACOSANE

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



#12 N-OCTACOSANE

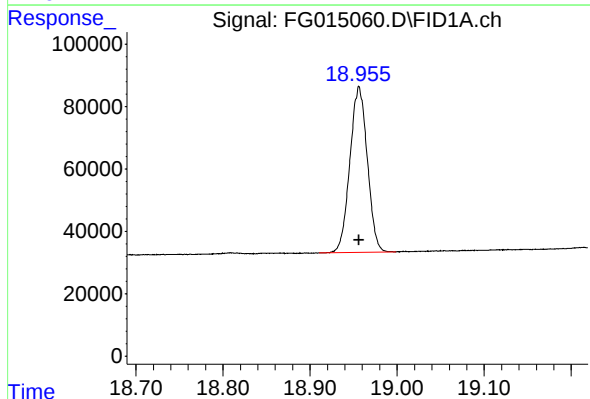
R.T.: 17.231 min
Delta R.T.: 0.000 min
Response: 719588
Conc: 5.11 ug/ml



#13 N-TRIACONTANE

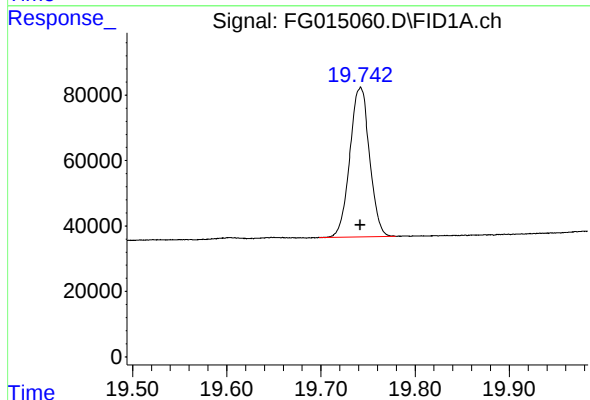
R.T.: 18.121 min
Delta R.T.: 0.000 min
Response: 746793
Conc: 5.23 ug/ml

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



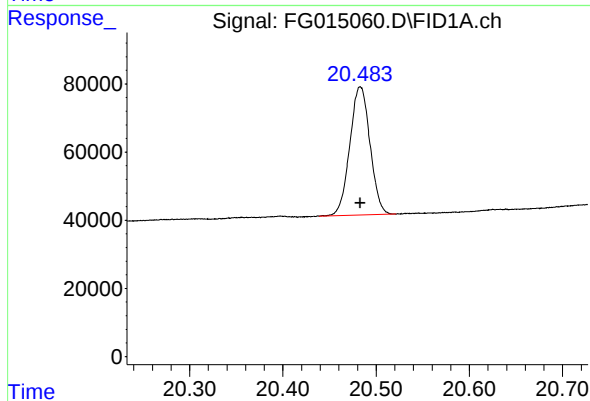
#14 N-DOTRIACONTANE

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



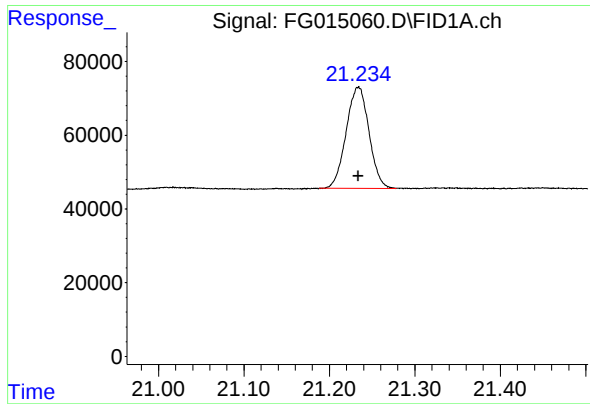
#15 N-TETRATRIACONTANE

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



#16 N-HEXATRIACONTANE

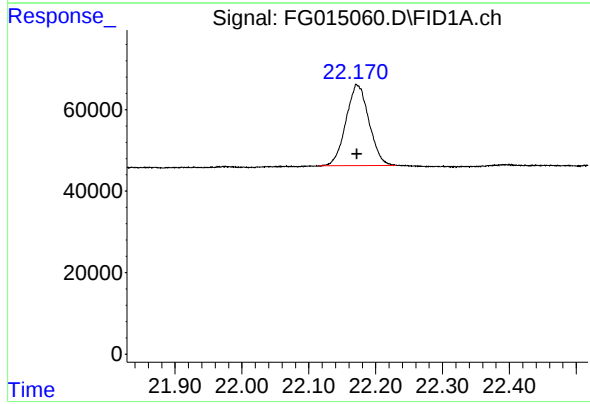
R.T.: 20.483 min
Delta R.T.: 0.000 min
Response: 565434
Conc: 5.23 ug/ml



#17 N-OCTATRIACONTANE

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

Instrument :
FID_G
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

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

Instrument :
 FID_G
 ClientSampleId :
 100 TRPH STD

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

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.056	11798567	91.980 ug/ml
Target Compounds			
1) N-OCTANE	2.010	11457523	93.897 ug/ml
2) N-DECANE	4.549	11755056	91.003 ug/ml
3) N-DODECANE	6.732	12400369	91.021 ug/ml
4) N-TETRADECANE	8.569	12323693	90.042 ug/ml
5) N-HEXADECANE	10.184	12738160	90.270 ug/ml
6) N-OCTADECANE	11.635	13302325	90.685 ug/ml
7) N-EICOSANE	12.951	13120855	90.248 ug/ml
8) N-DOCOSANE	14.155	13017284	90.736 ug/ml
10) N-TETRACOSANE	15.263	12974293	90.840 ug/ml
11) N-HEXACOSANE	16.288	12736383	90.432 ug/ml
12) N-OCTACOSANE	17.241	12438625	88.827 ug/ml
13) N-TRIACONTANE	18.132	12179850	85.611 ug/ml
14) N-DOTRIACONTANE	18.966	11733502	84.423 ug/ml
15) N-TETRATRIACONTANE	19.752	10691422	85.329 ug/ml
16) N-HEXATRIACONTANE	20.492	9388301	86.879 ug/ml
17) N-OCTATRIACONTANE	21.244	8808855	89.303 ug/ml
18) N-TETRACONTANE	22.185	8630372	92.952 ug/ml

(f)=RT Delta > 1/2 Window

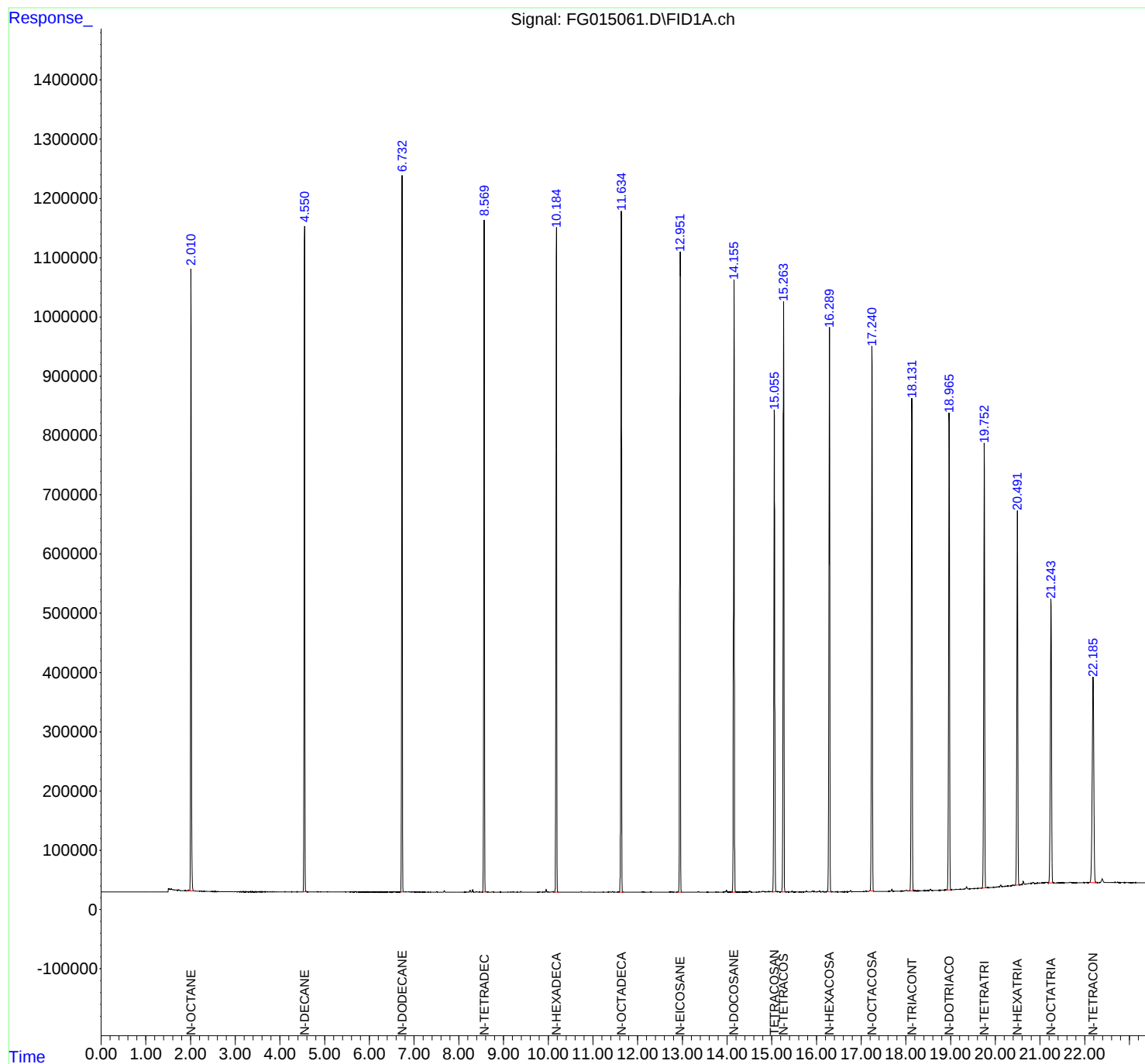
(m)=manual int.

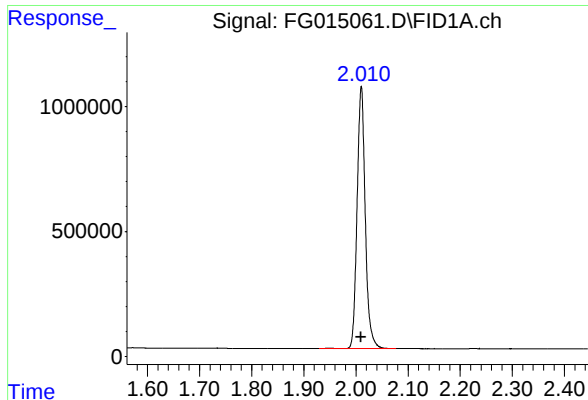
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015061.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 11:39
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 TRPH STD

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

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

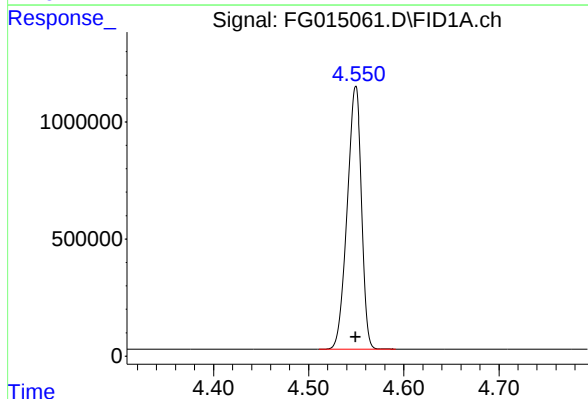




#1 N-OCTANE

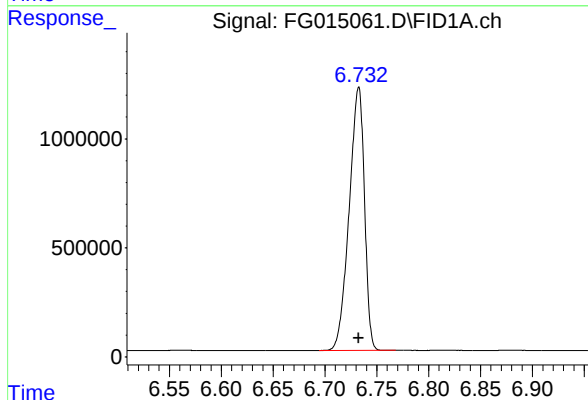
R.T.: 2.010 min
Delta R.T.: 0.000 min
Response: 11457523
Conc: 93.90 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



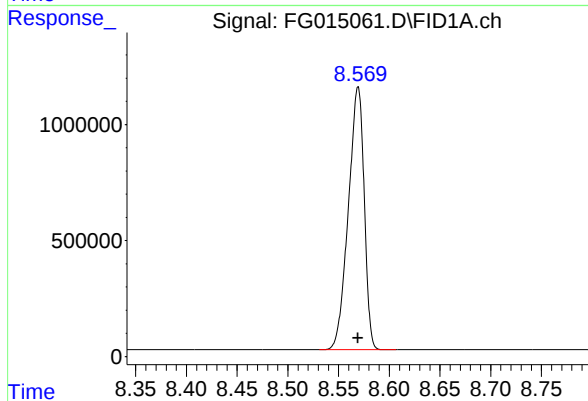
#2 N-DECANE

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



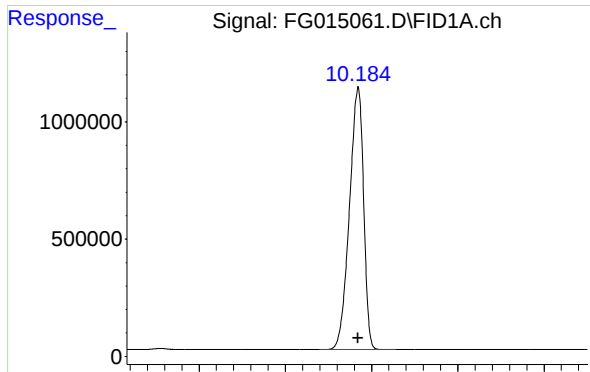
#3 N-DODECANE

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



#4 N-TETRADECANE

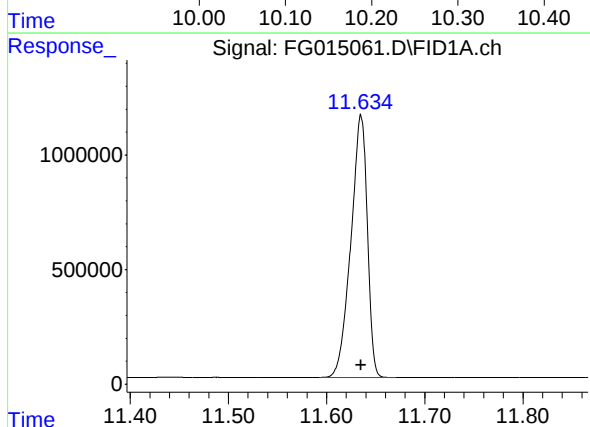
R.T.: 8.569 min
Delta R.T.: 0.000 min
Response: 12323693
Conc: 90.04 ug/ml



#5 N-HEXADECANE

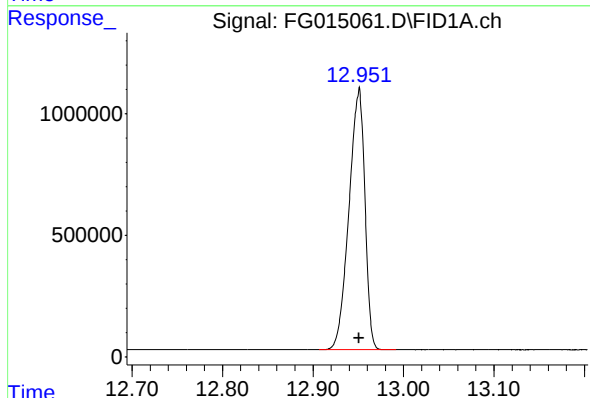
R.T.: 10.184 min
Delta R.T.: 0.000 min
Response: 12738160
Conc: 90.27 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



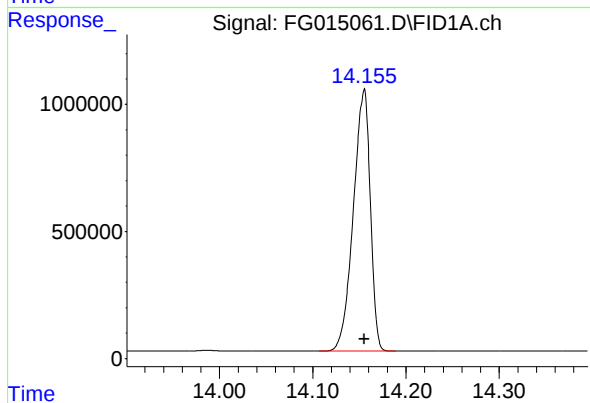
#6 N-OCTADECANE

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



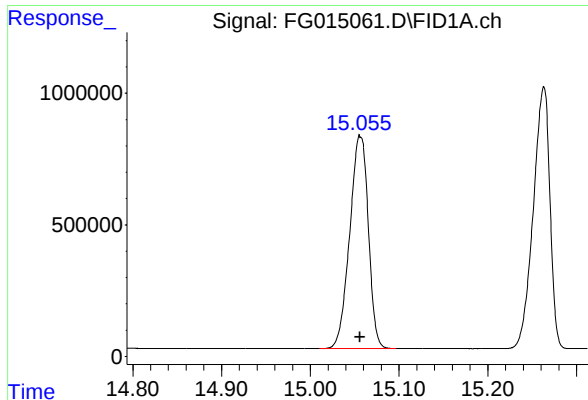
#7 N-EICOSANE

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



#8 N-DOCOSANE

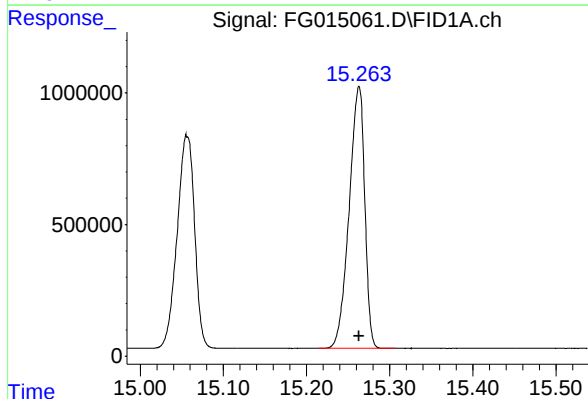
R.T.: 14.155 min
Delta R.T.: 0.000 min
Response: 13017284
Conc: 90.74 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

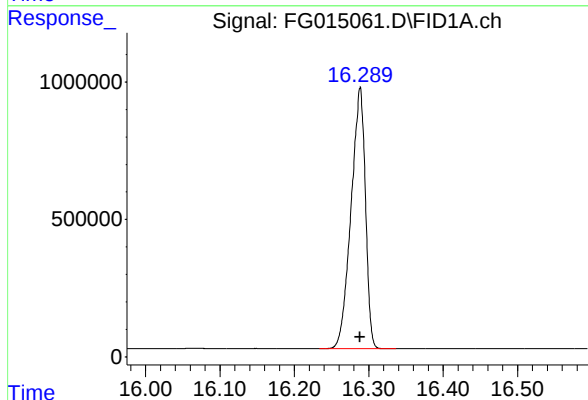
R.T.: 15.056 min
Delta R.T.: 0.000 min
Response: 11798567
Conc: 91.98 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



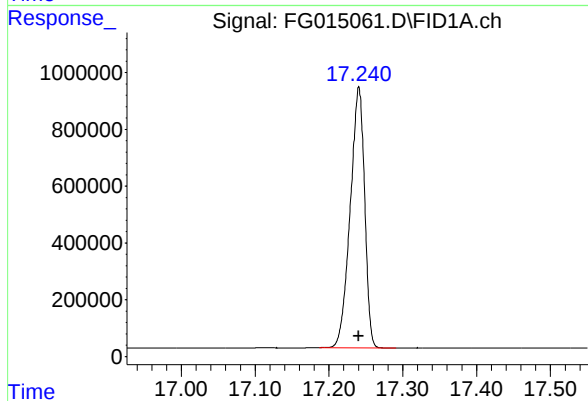
#10 N-TETRACOSANE

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



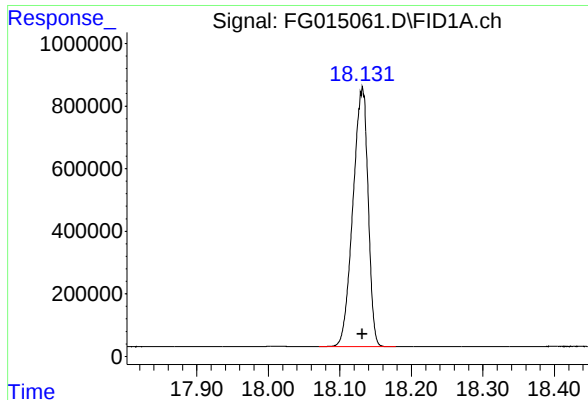
#11 N-HEXACOSANE

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



#12 N-OCTACOSANE

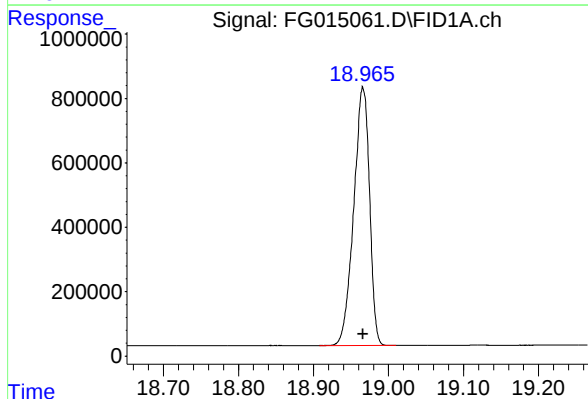
R.T.: 17.241 min
Delta R.T.: 0.000 min
Response: 12438625
Conc: 88.83 ug/ml



#13 N-TRIACONTANE

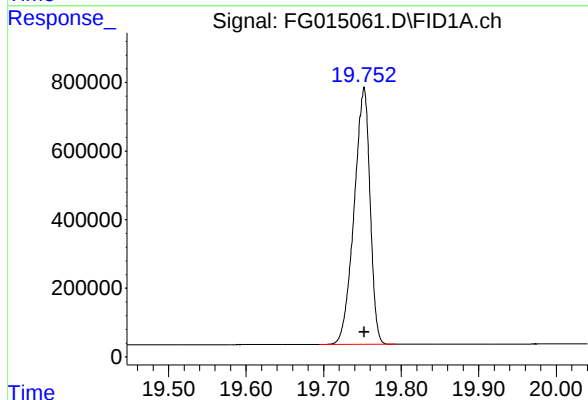
R.T.: 18.132 min
Delta R.T.: 0.000 min
Response: 12179850
Conc: 85.61 ug/ml

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



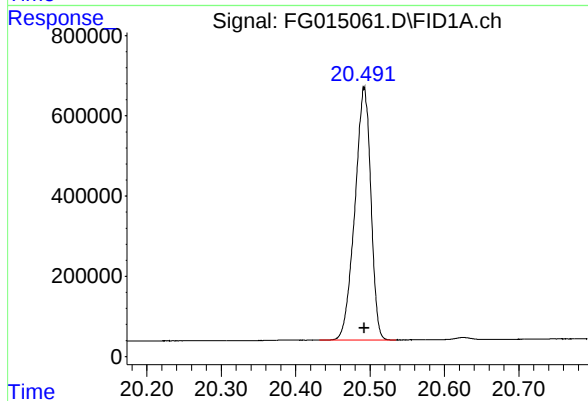
#14 N-DOTRIACONTANE

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



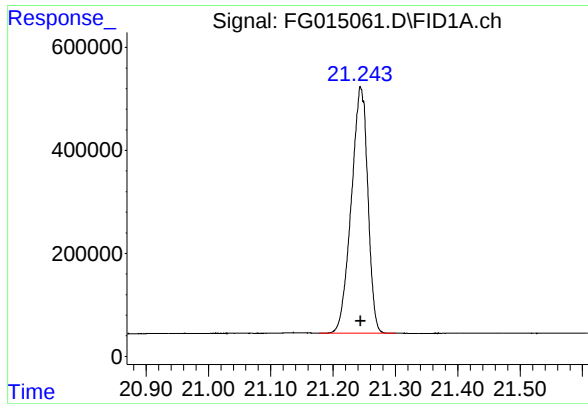
#15 N-TETRATRIACONTANE

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



#16 N-HEXATRIACONTANE

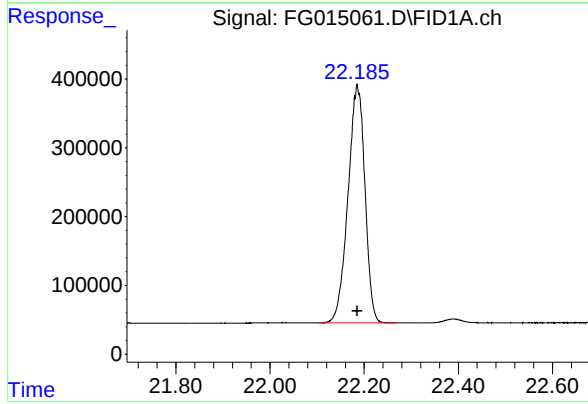
R.T.: 20.492 min
Delta R.T.: 0.000 min
Response: 9388301
Conc: 86.88 ug/ml



#17 N-OCTATRIACONTANE

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

Instrument :
FID_G
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

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

Instrument :
 FID_G
 ClientSampleId :
 FG011325ICV

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

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.054	6435456	50.170 ug/ml
Target Compounds			
1) N-OCTANE	2.011	5689865	46.630 ug/ml
2) N-DECANE	4.547	6668871	51.628 ug/ml
3) N-DODECANE	6.729	6965368	51.127 ug/ml
4) N-TETRADECANE	8.566	7162213	52.330 ug/ml
5) N-HEXADECANE	10.181	7292547	51.679 ug/ml
6) N-OCTADECANE	11.631	7485788	51.032 ug/ml
7) N-EICOSANE	12.948	7583215	52.159 ug/ml
8) N-DOCOSANE	14.150	7362758	51.322 ug/ml
10) N-TETRACOSANE	15.259	7320313	51.254 ug/ml
11) N-HEXACOSANE	16.283	7276923	51.668 ug/ml
12) N-OCTACOSANE	17.236	7251213	51.782 ug/ml
13) N-TRIACONTANE	18.127	7526376	52.902 ug/ml
14) N-DOTRIACONTANE	18.962	7422331	53.404 ug/ml
15) N-TETRATRIACONTANE	19.748	6986454	55.759 ug/ml
16) N-HEXATRIACONTANE	20.491	6347544	58.740 ug/ml
17) N-OCTATRIACONTANE	21.240	5886866	59.680 ug/ml
18) N-TETRACONTANE	22.182	5565107	59.938 ug/ml

(f)=RT Delta > 1/2 Window

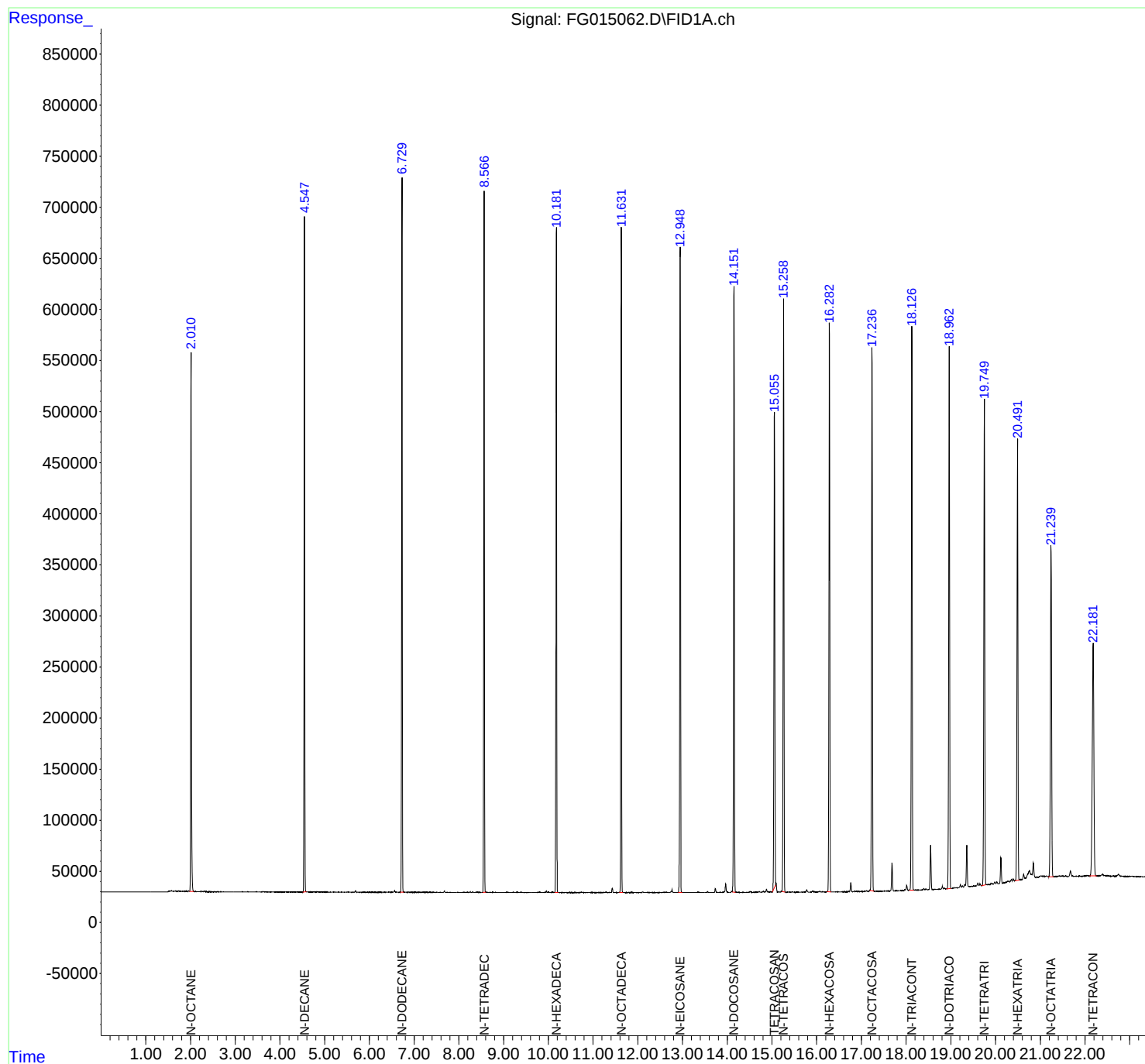
(m)=manual int.

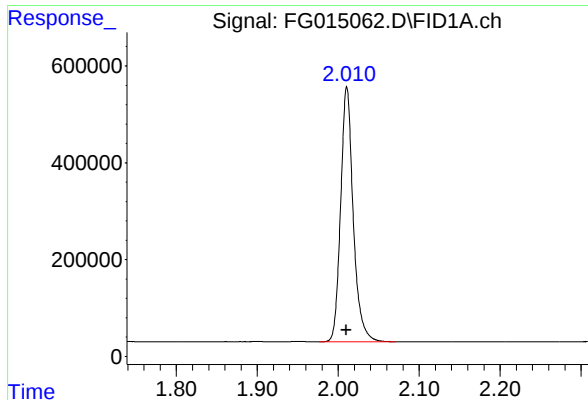
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011325\
Data File : FG015062.D
Signal(s) : FID1A.ch
Acq On : 13 Jan 2025 12:07
Operator : YP\AJ
Sample : FG011325ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
FG011325ICV

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

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

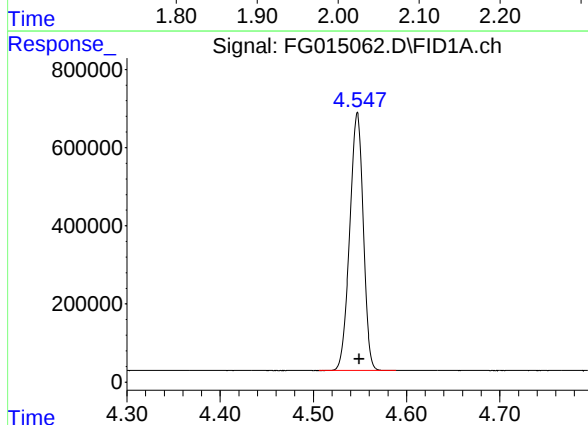




#1 N-OCTANE

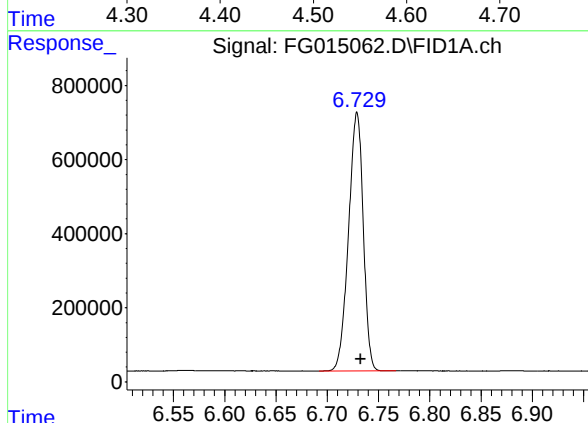
R.T.: 2.011 min
Delta R.T.: 0.000 min
Response: 5689865
Conc: 46.63 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



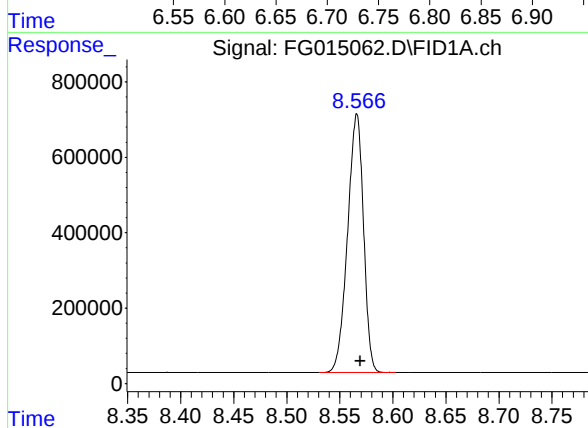
#2 N-DECANE

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



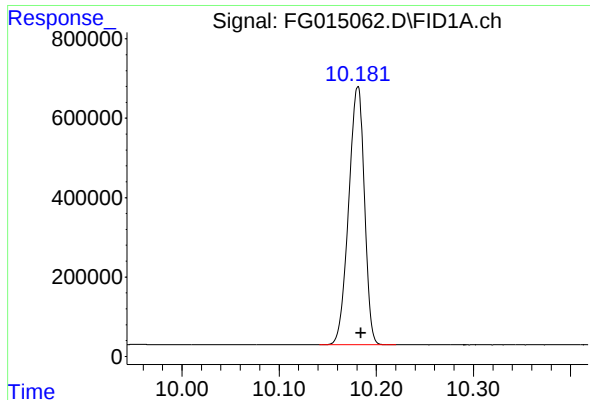
#3 N-DODECANE

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



#4 N-TETRADECANE

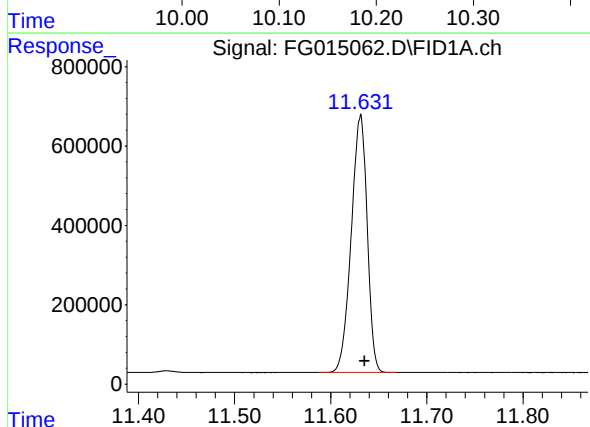
R.T.: 8.566 min
Delta R.T.: -0.003 min
Response: 7162213
Conc: 52.33 ug/ml



#5 N-HEXADECANE

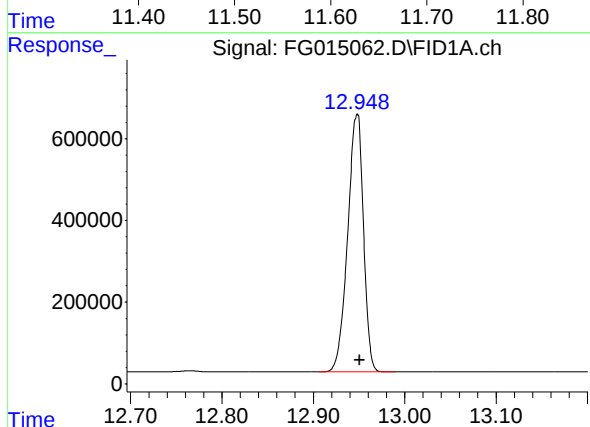
R.T.: 10.181 min
Delta R.T.: -0.003 min
Response: 7292547
Conc: 51.68 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



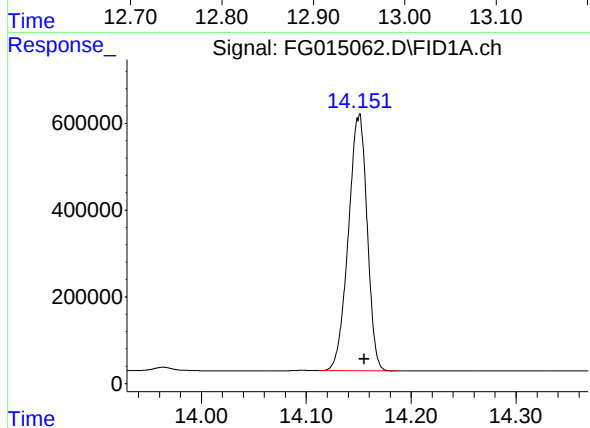
#6 N-OCTADECANE

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



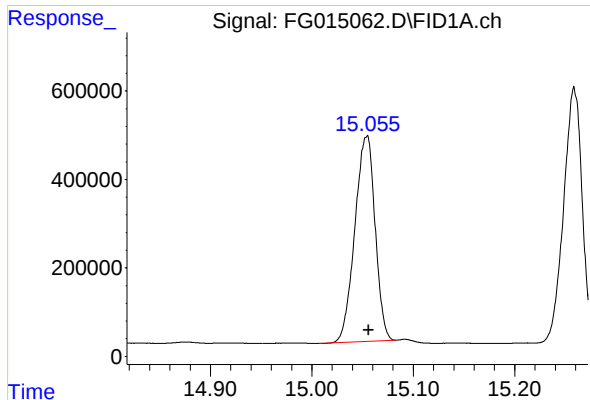
#7 N-EICOSANE

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



#8 N-DOCOSANE

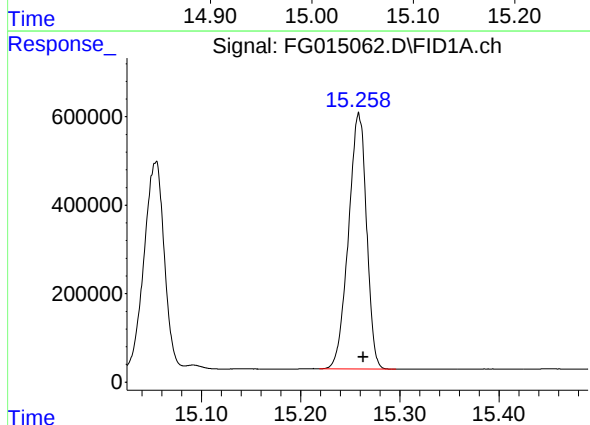
R.T.: 14.150 min
Delta R.T.: -0.005 min
Response: 7362758
Conc: 51.32 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

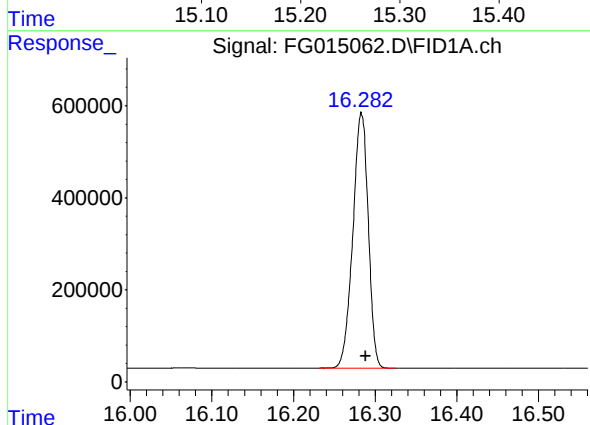
R.T.: 15.054 min
Delta R.T.: -0.002 min
Response: 6435456
Conc: 50.17 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



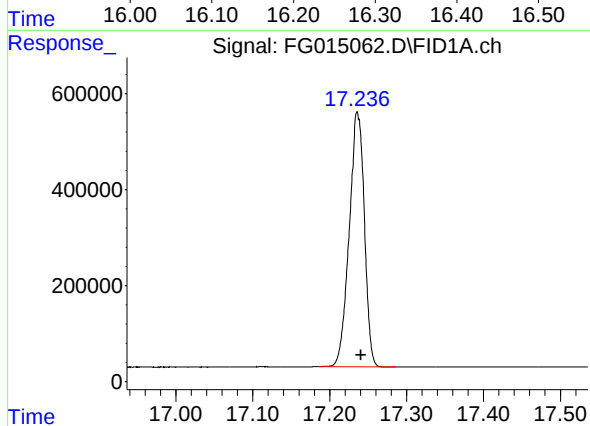
#10 N-TETRACOSANE

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



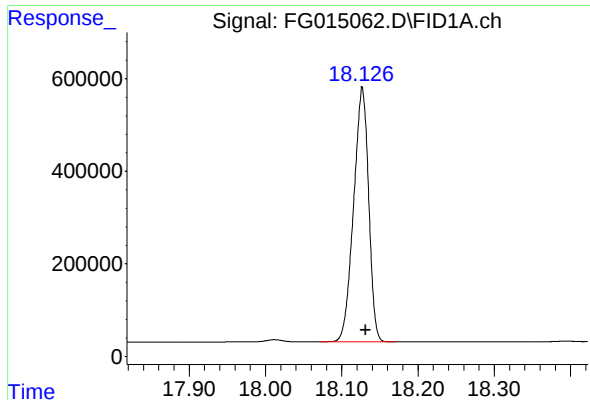
#11 N-HEXACOSANE

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



#12 N-OCTACOSANE

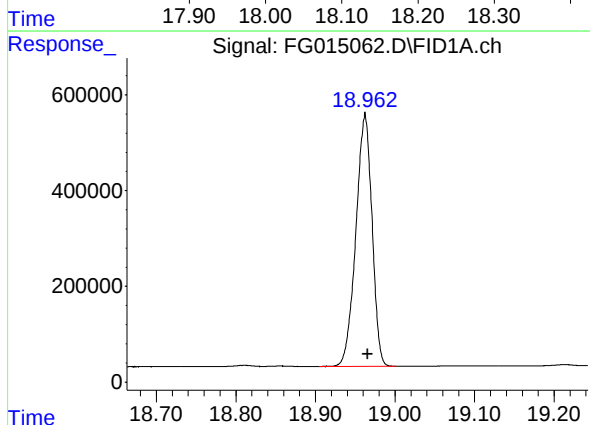
R.T.: 17.236 min
Delta R.T.: -0.005 min
Response: 7251213
Conc: 51.78 ug/ml



#13 N-TRIACONTANE

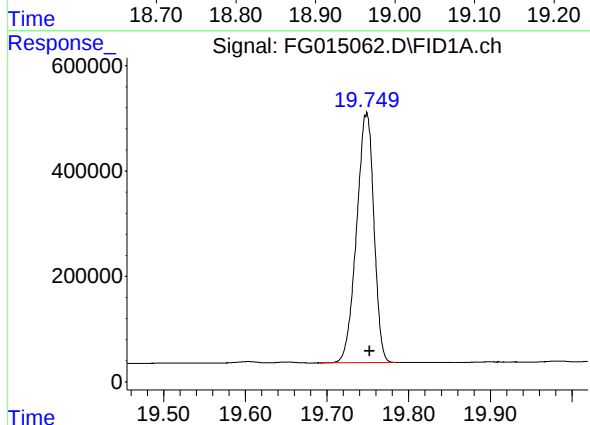
R.T.: 18.127 min
Delta R.T.: -0.005 min
Response: 7526376
Conc: 52.90 ug/ml

Instrument :
FID_G
ClientSampleId :
FG011325ICV



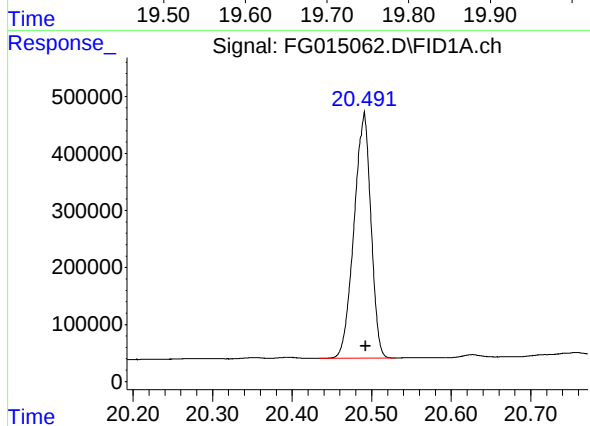
#14 N-DOTRIACONTANE

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



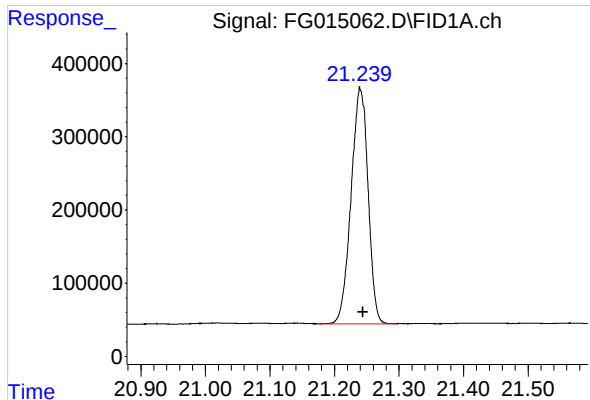
#15 N-TETRATRIACONTANE

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



#16 N-HEXATRIACONTANE

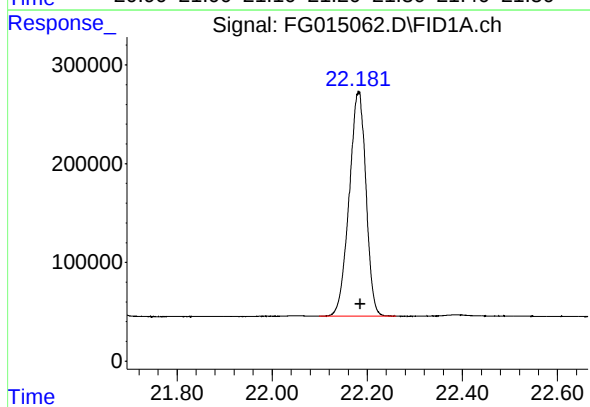
R.T.: 20.491 min
Delta R.T.: -0.001 min
Response: 6347544
Conc: 58.74 ug/ml



#17 N-OCTATRIACONTANE

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

Instrument :
FID_G
ClientSampleId :
FG011325ICV



#18 N-TETRACONTANE

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01
ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG No.: Q1216
DataFile: FG015247.D Analyst Name: YP\AJ Analyst Date: 01-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	69869948	139740	140262	0.372

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015247.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 10:54
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/31/2025
 Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
 Quant Time: Jan 31 05:06:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.044	6455618	50.327 ug/ml
Target Compounds			
2) N-DECANE	4.539	6581411	50.951 ug/ml
3) N-DODECANE	6.721	6925815	50.837 ug/ml
4) N-TETRADECANE	8.558	6858496	50.111 ug/ml
5) N-HEXADECANE	10.173	7073787	50.129 ug/ml
6) N-OCTADECANE	11.623	7351164	50.115 ug/ml
7) N-EICOSANE	12.938	7216092	49.634 ug/ml
8) N-DOCOSANE	14.141	7119192	49.624 ug/ml
10) N-TETRACOSANE	15.249	7061470	49.441 ug/ml
11) N-HEXACOSANE	16.274	6890090	48.921 ug/ml
12) N-OCTACOSANE	17.225	6792431	48.506 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015247.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 10:54
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

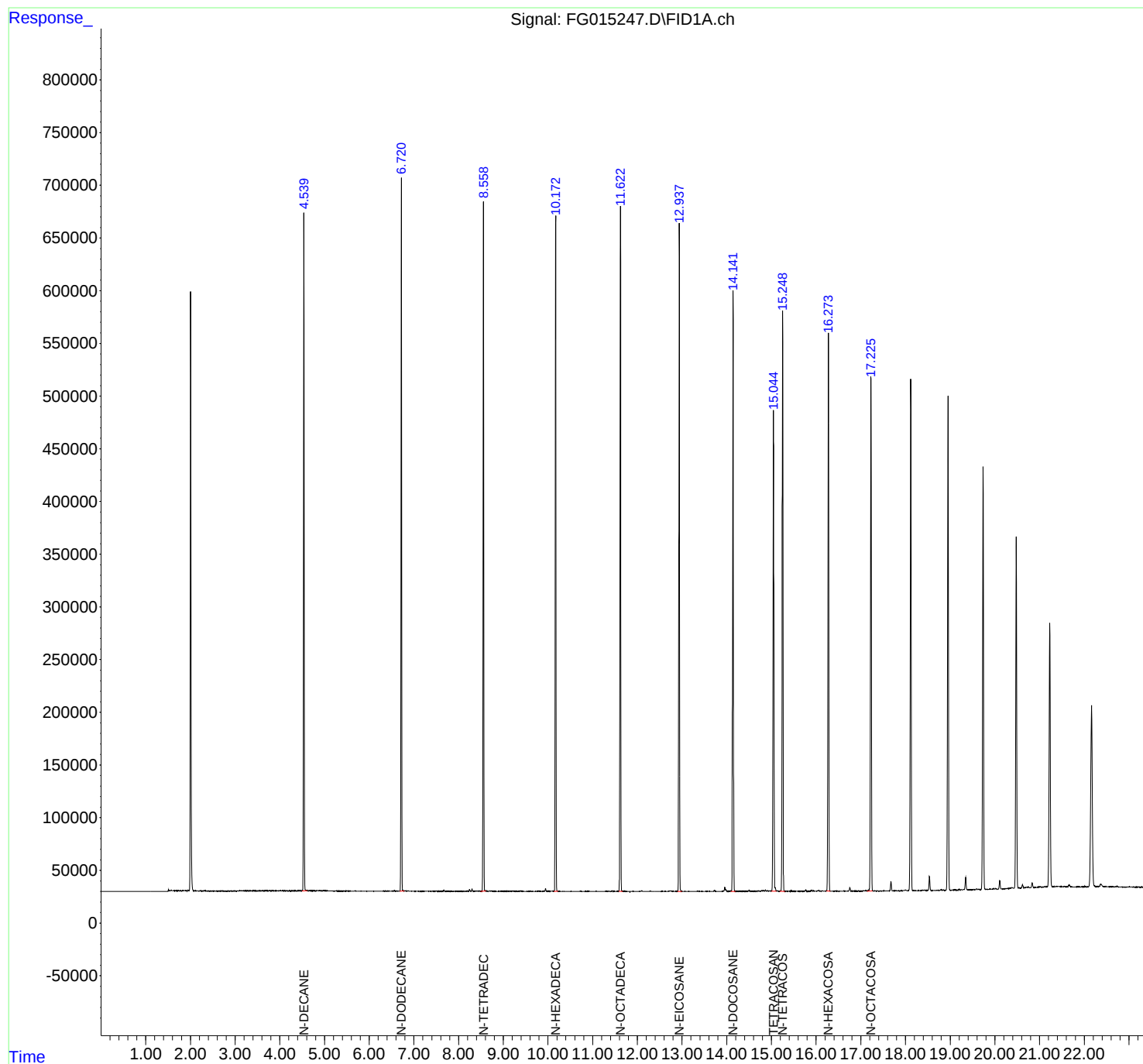
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

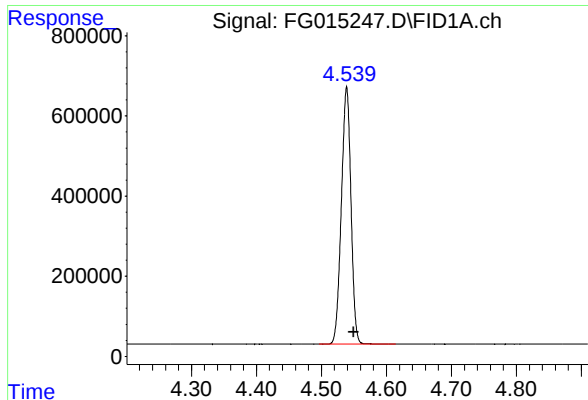
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
Quant Time: Jan 31 05:06:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#2 N-DECANE

R.T.: 4.539 min
Delta R.T.: -0.011 min
Response: 6581411
Conc: 50.95 ug/ml

Instrument :

FID_G

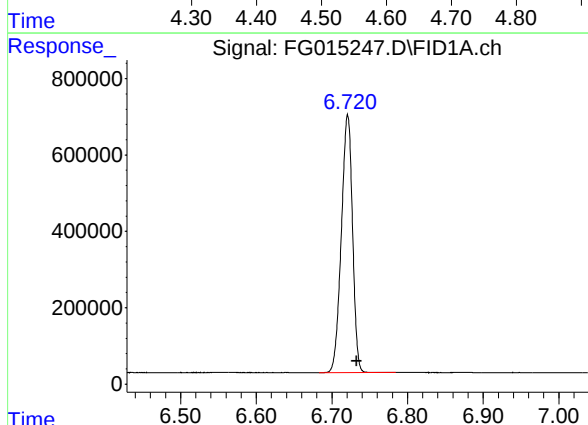
ClientSampleId :

50 PPM TRPH STD

Manual Integrations

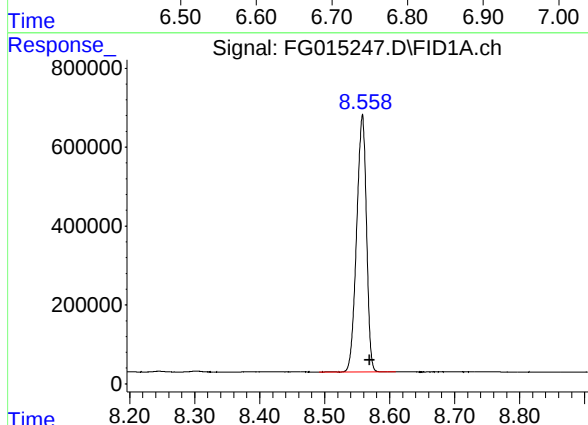
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025



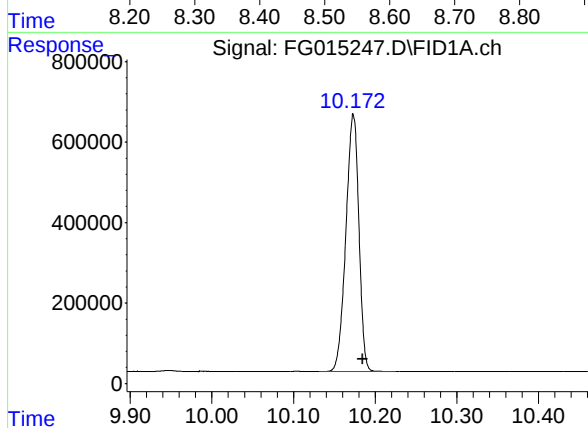
#3 N-DODECANE

R.T.: 6.721 min
Delta R.T.: -0.012 min
Response: 6925815
Conc: 50.84 ug/ml



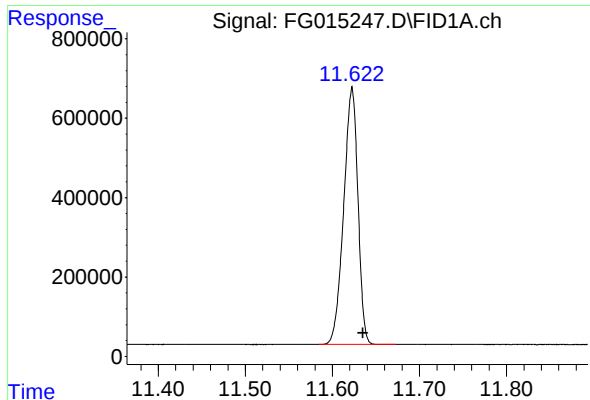
#4 N-TETRADECANE

R.T.: 8.558 min
Delta R.T.: -0.011 min
Response: 6858496
Conc: 50.11 ug/ml



#5 N-HEXADECANE

R.T.: 10.173 min
Delta R.T.: -0.011 min
Response: 7073787
Conc: 50.13 ug/ml



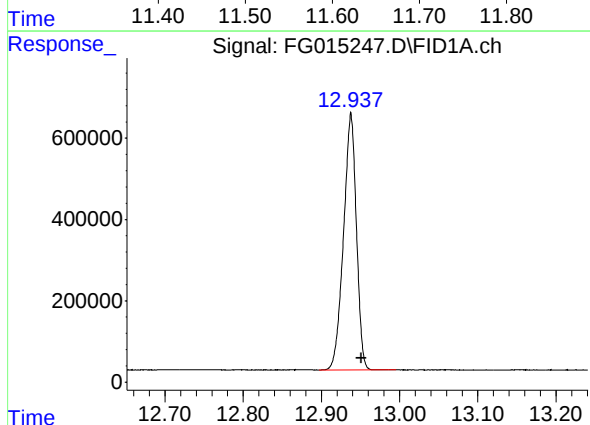
#6 N-OCTADECANE

R.T.: 11.623 min
Delta R.T.: -0.013 min
Response: 7351164
Conc: 50.11 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

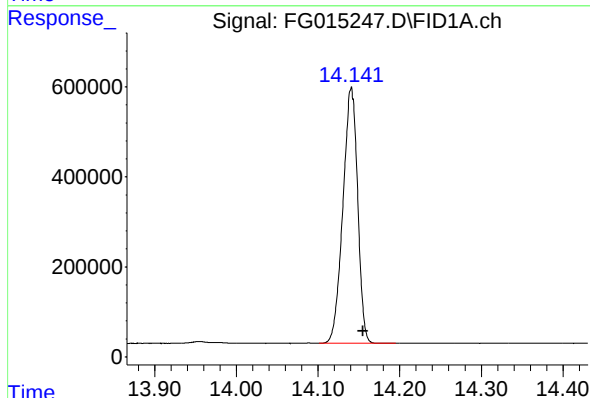
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025



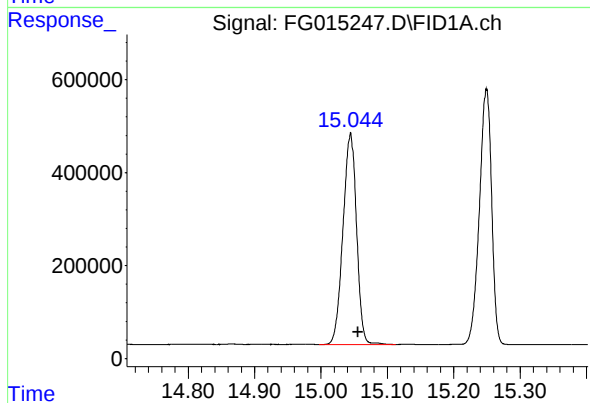
#7 N-EICOSANE

R.T.: 12.938 min
Delta R.T.: -0.013 min
Response: 7216092
Conc: 49.63 ug/ml



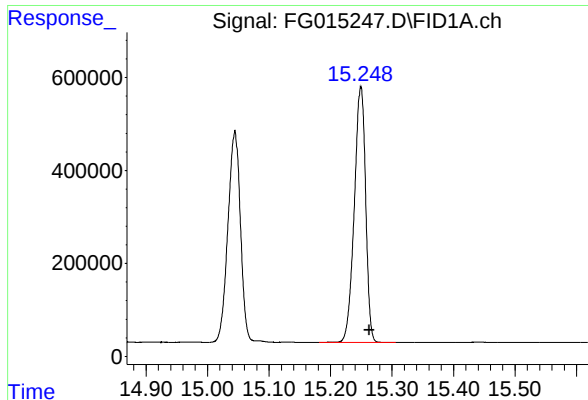
#8 N-DOCOSANE

R.T.: 14.141 min
Delta R.T.: -0.015 min
Response: 7119192
Conc: 49.62 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.044 min
Delta R.T.: -0.012 min
Response: 6455618
Conc: 50.33 ug/ml



#10 N-TETRACOSANE

R.T.: 15.249 min
Delta R.T.: -0.014 min
Response: 7061470
Conc: 49.44 ug/ml

Instrument :

FID_G

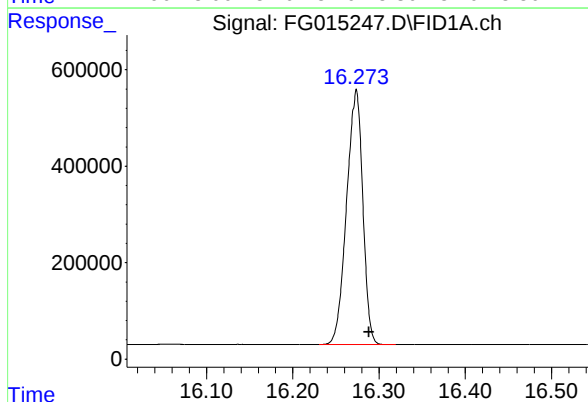
ClientSampleId :

50 PPM TRPH STD

Manual Integrations

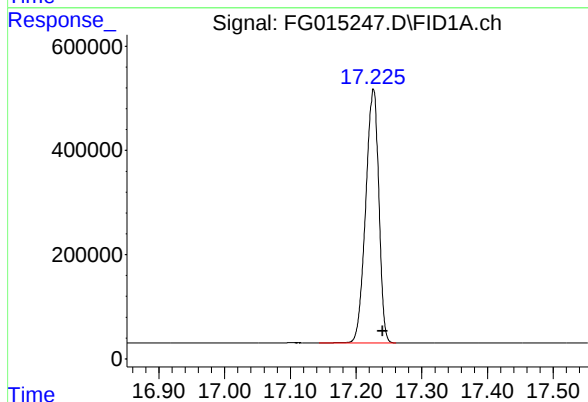
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025



#11 N-HEXACOSANE

R.T.: 16.274 min
Delta R.T.: -0.015 min
Response: 6890090
Conc: 48.92 ug/ml



#12 N-OCTACOSANE

R.T.: 17.225 min
Delta R.T.: -0.015 min
Response: 6792431
Conc: 48.51 ug/ml m

rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG01302
Data File : FG015247.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 10:54
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.539	4.496	4.615	BB	642249	6581411	89.53%	8.622%
2	6.721	6.683	6.785	BB	674332	6925815	94.21%	9.073%
3	8.558	8.491	8.610	BB	650396	6858496	93.30%	8.985%
4	10.173	10.131	10.225	BB	635699	7073787	96.23%	9.267%
5	11.623	11.585	11.673	BB	648006	7351164	100.00%	9.630%
6	12.938	12.897	12.995	BB	631996	7216092	98.16%	9.453%
7	14.141	14.101	14.195	VB	566014	7119192	96.84%	9.326%
8	15.044	14.997	15.113	BV	455612	6455618	87.82%	8.457%
9	15.249	15.181	15.306	BB	548313	7061470	96.06%	9.250%
10	16.274	16.230	16.320	BB	529070	6890090	93.73%	9.026%
11	17.227	17.073	17.285	BB	486310	6803082	92.54%	8.912%
Sum of corrected areas:						76336217		

FG011325.M Fri Jan 31 05:57:20 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY**50 PPM TRPH STD**

Lab Name: Chemtech Contract: RUTW01
ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG No.: Q1216
DataFile: FG015259.D Analyst Name: YP\AJ Analyst Date: 01-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70508145	141016	140262	0.538

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015259.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 17:12
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Jan 31 05:10:39 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.056	6420948	50.057 ug/ml
Target Compounds			
2) N-DECANE	4.545	6610208	51.174 ug/ml
3) N-DODECANE	6.728	7017542	51.510 ug/ml
4) N-TETRADECANE	8.566	6981392	51.009 ug/ml
5) N-HEXADECANE	10.182	7199037	51.017 ug/ml
6) N-OCTADECANE	11.632	7465337	50.893 ug/ml
7) N-EICOSANE	12.949	7296364	50.186 ug/ml
8) N-DOCOSANE	14.152	7156807	49.886 ug/ml
10) N-TETRACOSANE	15.260	7062041	49.445 ug/ml
11) N-HEXACOSANE	16.286	6896884	48.970 ug/ml
12) N-OCTACOSANE	17.239	6822533	48.721 ug/ml

(f)=RT Delta > 1/2 Window

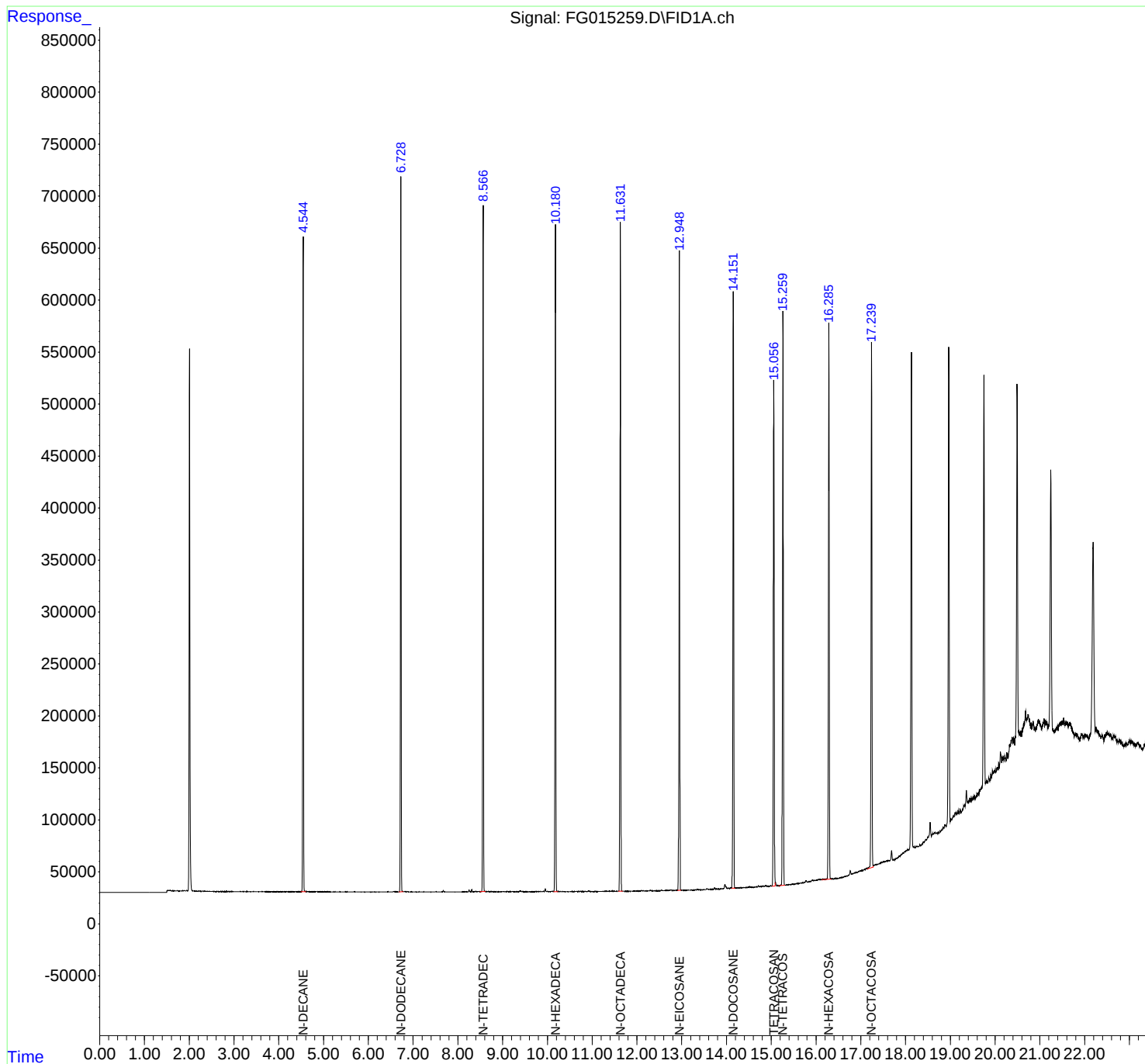
(m)=manual int.

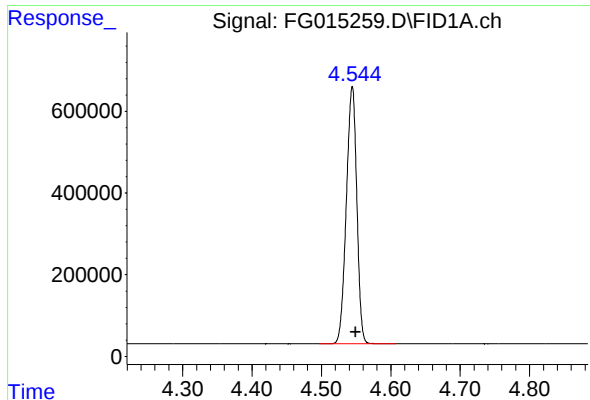
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015259.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 17:12
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Jan 31 05:10:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

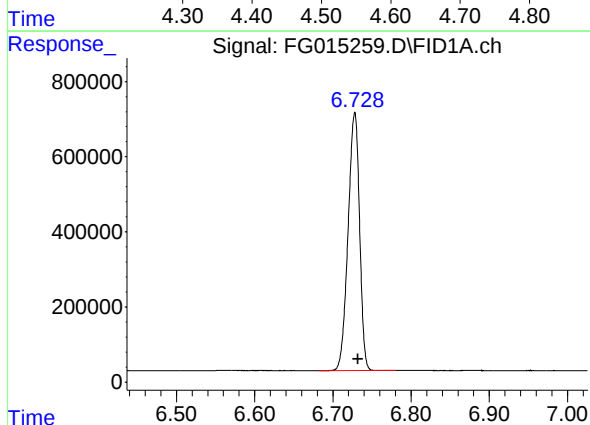




#2 N-DECANE

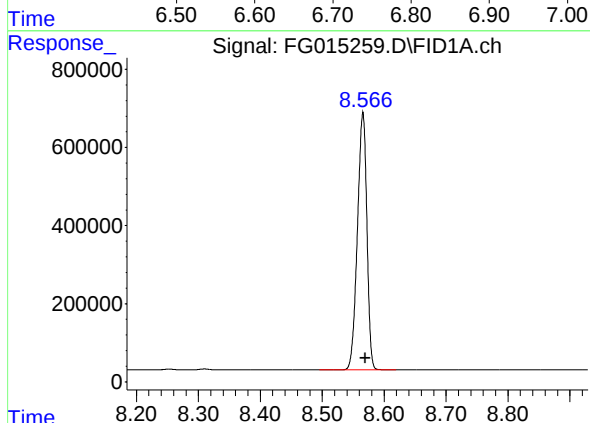
R.T.: 4.545 min
Delta R.T.: -0.005 min
Response: 6610208
Conc: 51.17 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



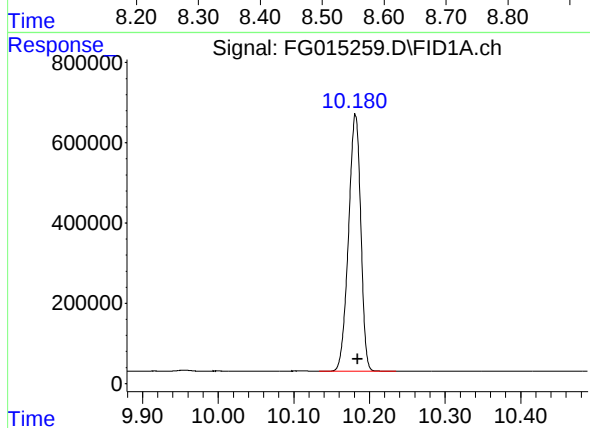
#3 N-DODECANE

R.T.: 6.728 min
Delta R.T.: -0.004 min
Response: 7017542
Conc: 51.51 ug/ml



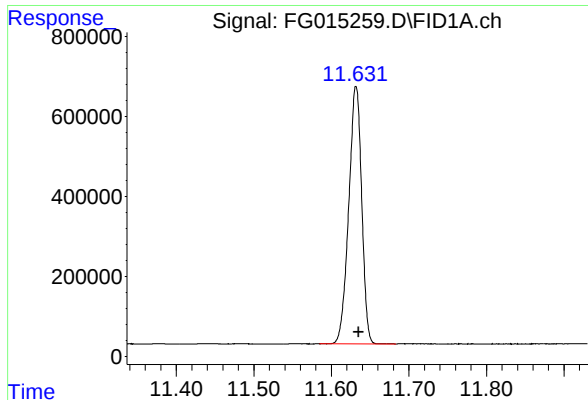
#4 N-TETRADECANE

R.T.: 8.566 min
Delta R.T.: -0.003 min
Response: 6981392
Conc: 51.01 ug/ml



#5 N-HEXADECANE

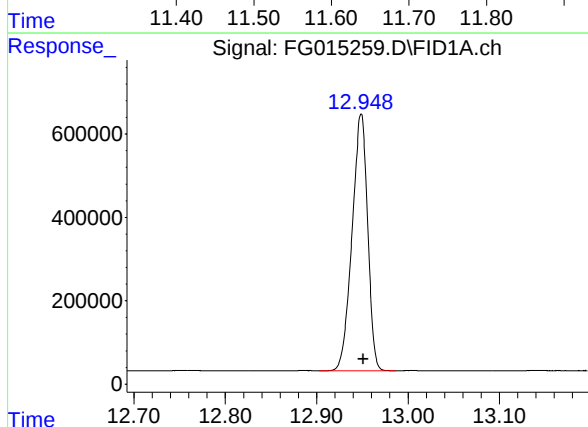
R.T.: 10.182 min
Delta R.T.: -0.003 min
Response: 7199037
Conc: 51.02 ug/ml



#6 N-OCTADECANE

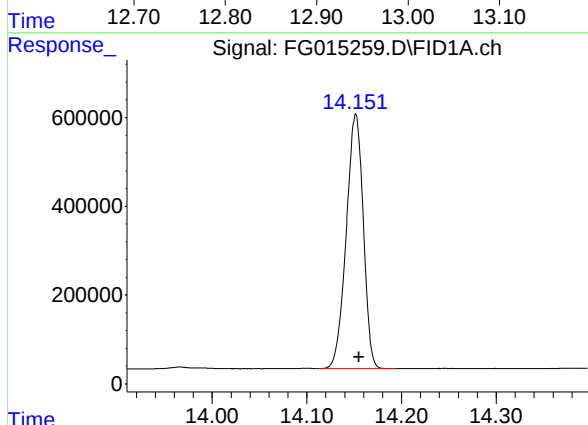
R.T.: 11.632 min
Delta R.T.: -0.003 min
Response: 7465337
Conc: 50.89 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



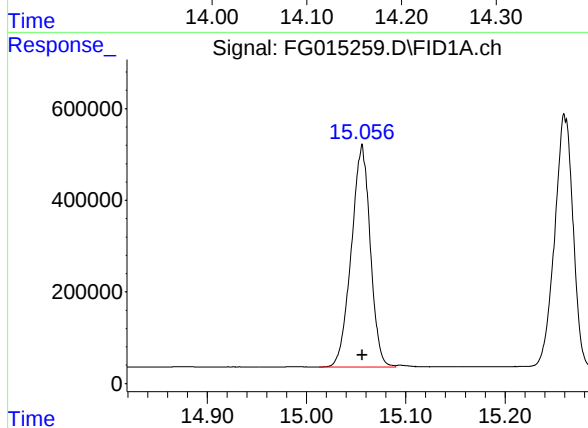
#7 N-EICOSANE

R.T.: 12.949 min
Delta R.T.: -0.002 min
Response: 7296364
Conc: 50.19 ug/ml



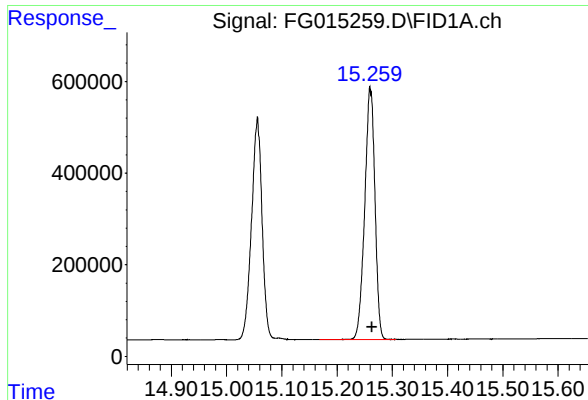
#8 N-DOCOSANE

R.T.: 14.152 min
Delta R.T.: -0.003 min
Response: 7156807
Conc: 49.89 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

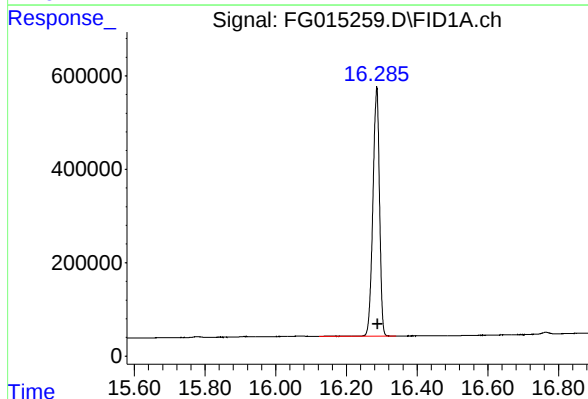
R.T.: 15.056 min
Delta R.T.: 0.000 min
Response: 6420948
Conc: 50.06 ug/ml



#10 N-TETRACOSANE

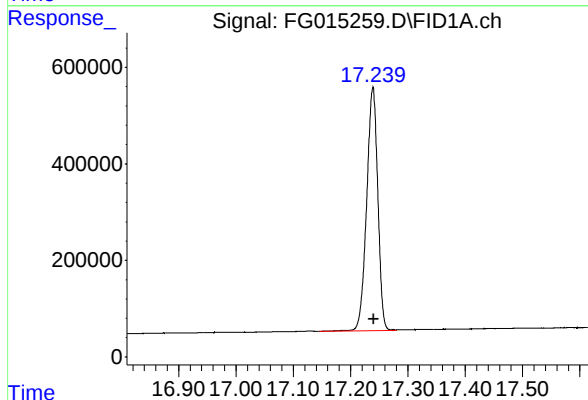
R.T.: 15.260 min
Delta R.T.: -0.003 min
Response: 7062041
Conc: 49.45 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.286 min
Delta R.T.: -0.002 min
Response: 6896884
Conc: 48.97 ug/ml



#12 N-OCTACOSANE

R.T.: 17.239 min
Delta R.T.: -0.002 min
Response: 6822533
Conc: 48.72 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015259.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 17:12
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.545	4.497	4.607	BB	629885	6610208	88.55%	8.593%
2	6.728	6.683	6.781	BB	688449	7017542	94.00%	9.122%
3	8.566	8.495	8.619	BB	659510	6981392	93.52%	9.075%
4	10.182	10.133	10.235	BB	636341	7199037	96.43%	9.358%
5	11.632	11.584	11.683	BB	643322	7465337	100.00%	9.704%
6	12.949	12.903	12.987	BB	615758	7296364	97.74%	9.485%
7	14.152	14.113	14.194	VB	574492	7156807	95.87%	9.303%
8	15.056	15.013	15.090	PV	485513	6420948	86.01%	8.347%
9	15.260	15.168	15.307	BB	546287	7062041	94.60%	9.180%
10	16.286	16.123	16.340	BB	533240	6896884	92.39%	8.965%
11	17.239	17.145	17.279	VV	505103	6822533	91.39%	8.869%
Sum of corrected areas:						76929093		

FG011325.M Fri Jan 31 06:01:05 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01
ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG No.: Q1216
DataFile: FG015270.D Analyst Name: YP\AJ Analyst Date: 01-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70647067	141294	140262	0.736

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015270.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 23:22
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/31/2025
 Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
 Quant Time: Jan 31 05:14:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.052	6486354	50.567 ug/ml
Target Compounds			
2) N-DECANE	4.543	6570185	50.864 ug/ml
3) N-DODECANE	6.726	6978281	51.222 ug/ml
4) N-TETRADECANE	8.564	6949537	50.776 ug/ml
5) N-HEXADECANE	10.180	7189620	50.950 ug/ml
6) N-OCTADECANE	11.630	7486125	51.035 ug/ml
7) N-EICOSANE	12.946	7328758	50.409 ug/ml
8) N-DOCOSANE	14.149	7218561	50.316 ug/ml
10) N-TETRACOSANE	15.259	7137116	49.971 ug/ml
11) N-HEXACOSANE	16.282	6958060	49.404 ug/ml
12) N-OCTACOSANE	17.235	6830824	48.780 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015270.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 23:22
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

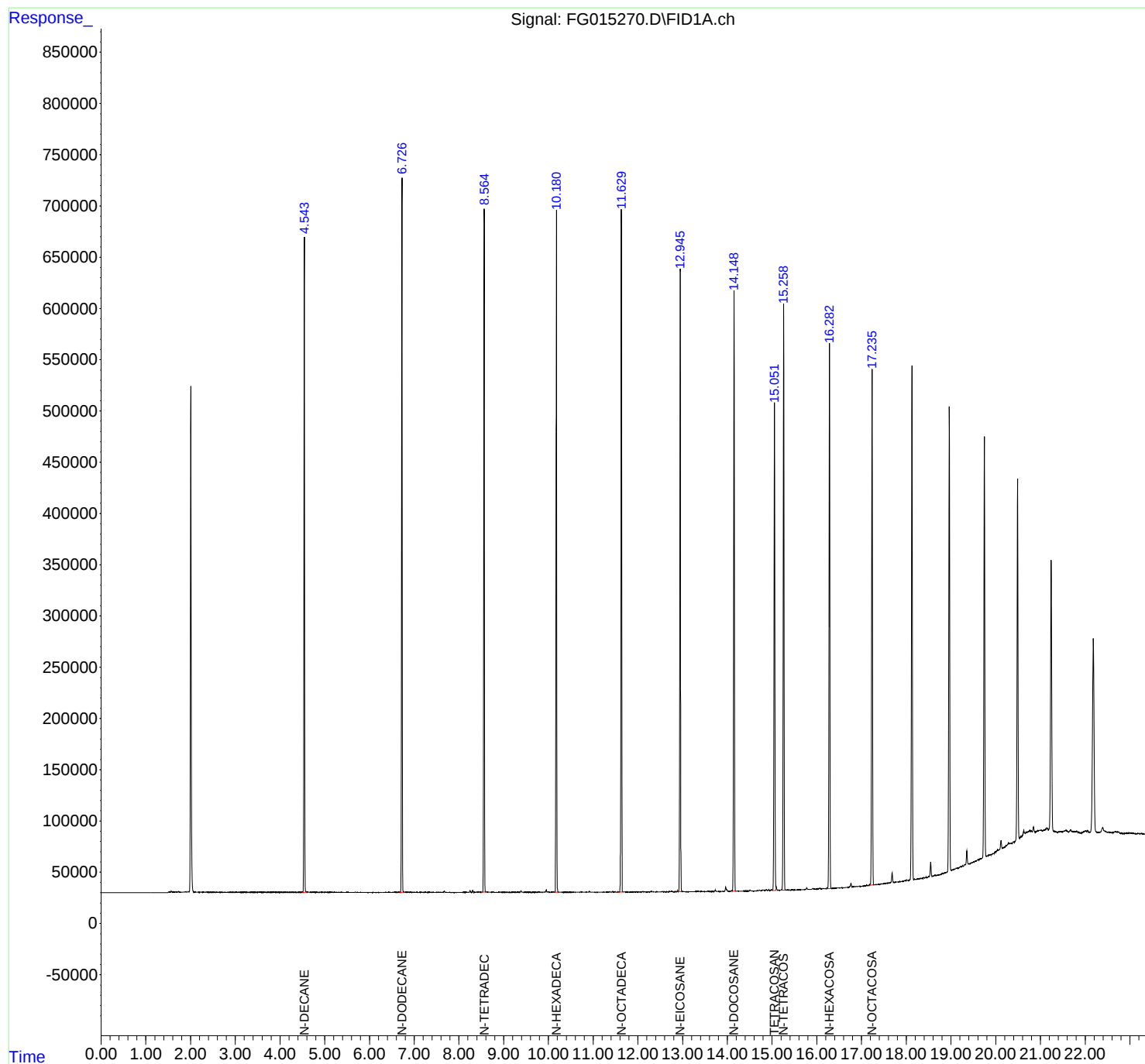
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

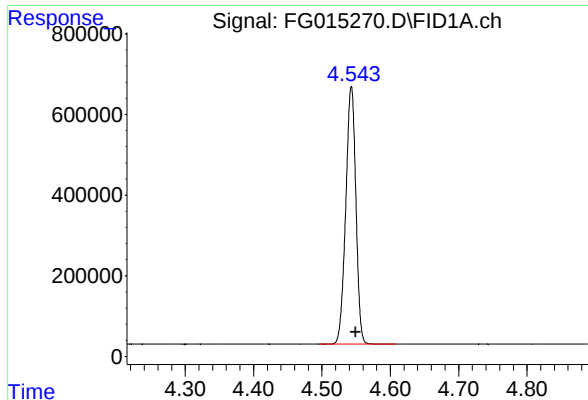
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
Quant Time: Jan 31 05:14:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





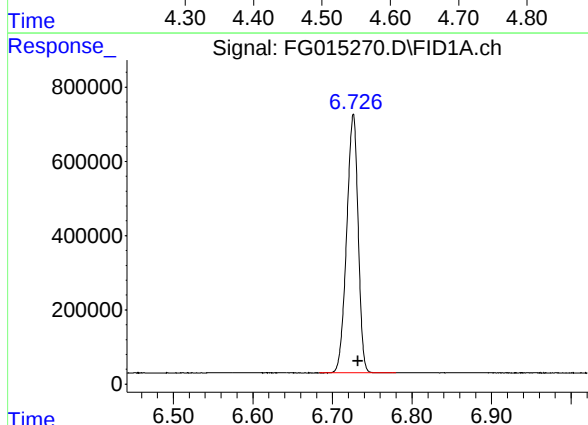
#2 N-DECANE

R.T.: 4.543 min
Delta R.T.: -0.006 min
Response: 6570185
Conc: 50.86 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

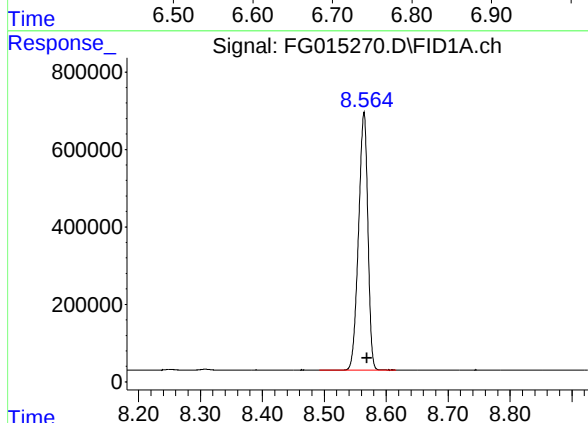
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025



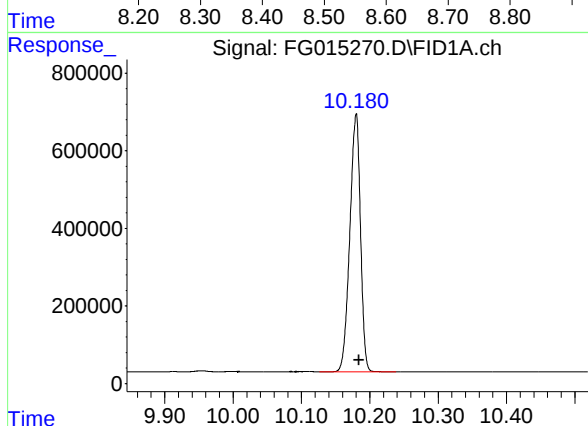
#3 N-DODECANE

R.T.: 6.726 min
Delta R.T.: -0.006 min
Response: 6978281
Conc: 51.22 ug/ml



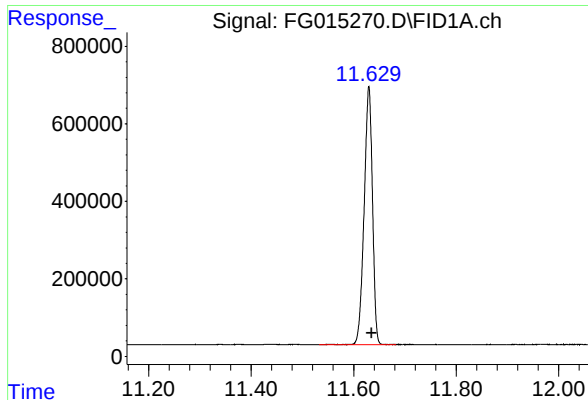
#4 N-TETRADECANE

R.T.: 8.564 min
Delta R.T.: -0.005 min
Response: 6949537
Conc: 50.78 ug/ml



#5 N-HEXADECANE

R.T.: 10.180 min
Delta R.T.: -0.004 min
Response: 7189620
Conc: 50.95 ug/ml



#6 N-OCTADECANE

R.T.: 11.630 min
Delta R.T.: -0.005 min
Response: 7486125
Conc: 51.03 ug/ml

Instrument :

FID_G

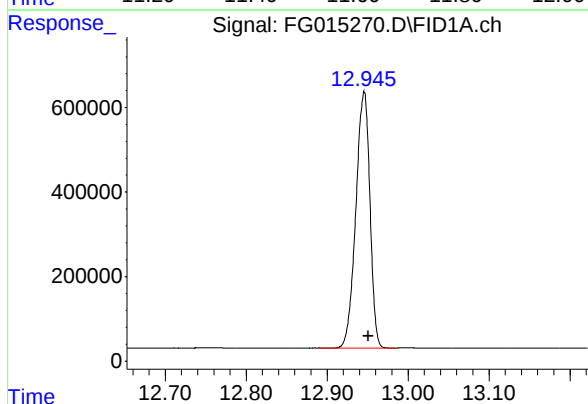
ClientSampleId :

50 PPM TRPH STD

Manual Integrations

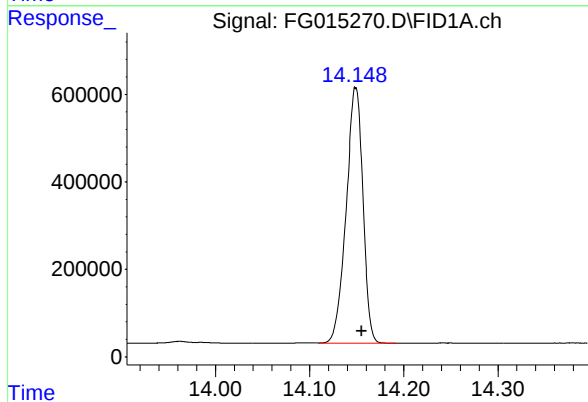
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025



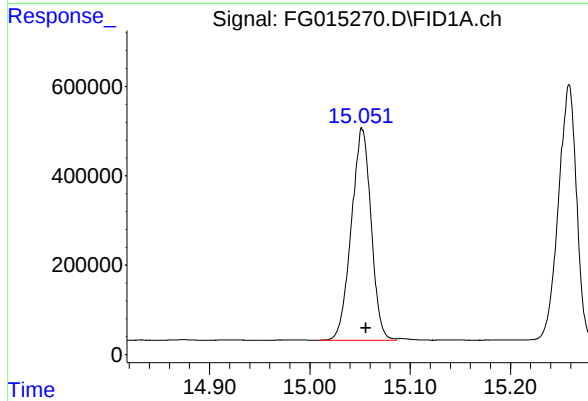
#7 N-EICOSANE

R.T.: 12.946 min
Delta R.T.: -0.005 min
Response: 7328758
Conc: 50.41 ug/ml



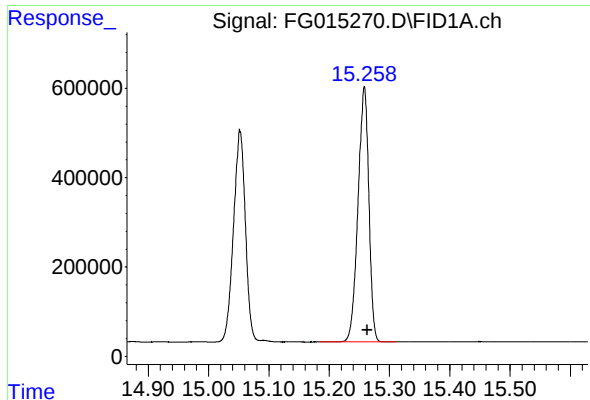
#8 N-DOCOSANE

R.T.: 14.149 min
Delta R.T.: -0.006 min
Response: 7218561
Conc: 50.32 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.052 min
Delta R.T.: -0.004 min
Response: 6486354
Conc: 50.57 ug/ml



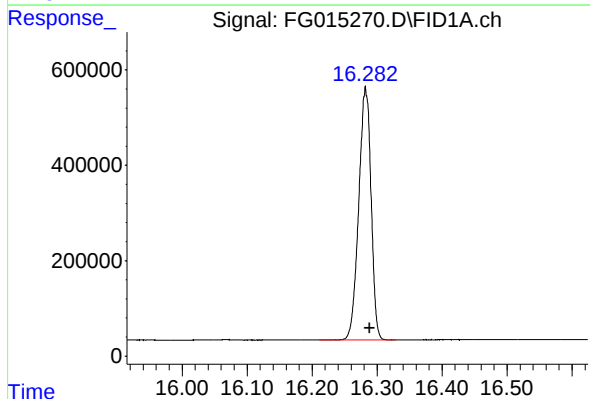
#10 N-TETRACOSANE

R.T.: 15.259 min
Delta R.T.: -0.005 min
Response: 7137116
Conc: 49.97 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

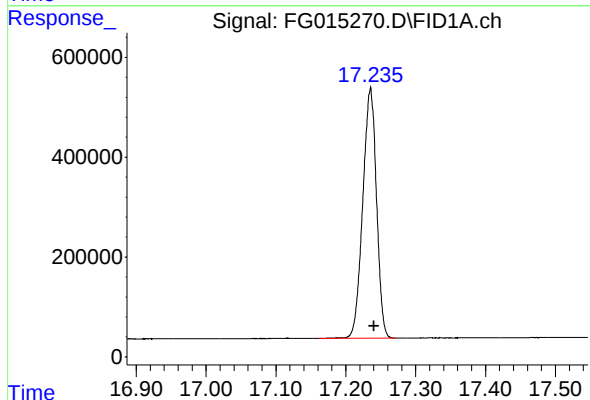
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025



#11 N-HEXACOSANE

R.T.: 16.282 min
Delta R.T.: -0.006 min
Response: 6958060
Conc: 49.40 ug/ml



#12 N-OCTACOSANE

R.T.: 17.235 min
Delta R.T.: -0.005 min
Response: 6830824
Conc: 48.78 ug/ml m

rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG01302
Data File : FG015270.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 23:22
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.543	4.496	4.608	BB	639710	6570185	87.76%	8.516%
2	6.726	6.683	6.780	BB	697811	6978281	93.22%	9.045%
3	8.564	8.492	8.616	BB	665826	6949537	92.83%	9.008%
4	10.180	10.126	10.238	BB	664951	7189620	96.04%	9.319%
5	11.630	11.533	11.683	BB	665654	7486125	100.00%	9.704%
6	12.946	12.890	12.985	BV	606149	7328758	97.90%	9.500%
7	14.149	14.110	14.192	VB	582849	7218561	96.43%	9.357%
8	15.052	15.009	15.086	BV	470002	6486354	86.65%	8.408%
9	15.259	15.183	15.311	BB	571755	7137116	95.34%	9.251%
10	16.282	16.211	16.329	BB	528333	6958060	92.95%	9.019%
11	17.235	17.036	17.278	BV	500433	6845348	91.44%	8.873%
Sum of corrected areas:						77147945		

FG011325.M Fri Jan 31 06:03:25 2025

Analytical Sequence

Client: RU2 Engineering, LLC

SDG No.: Q1216

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Instrument ID: FID_G

GC Column: RXI-1MS

ID: 0.18 (mm)

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.0514					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	30 Jan 2025 10:25	FG015246.D	15.042	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jan 2025 10:54	FG015247.D	15.044	
PB166361BS	PB166361BS	30 Jan 2025 12:28	FG015249.D	15.043	
PB166361BL	PB166361BL	30 Jan 2025 12:56	FG015250.D	15.040	
PIBLK02	LBLK02	30 Jan 2025 16:44	FG015258.D	15.054	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jan 2025 17:12	FG015259.D	15.056	
JPP-29.1-012825MS	Q1215-01MS	30 Jan 2025 18:09	FG015260.D	15.003	
JPP-29.1-012825MSD	Q1215-01MSD	30 Jan 2025 18:37	FG015261.D	15.002	
JPP-18.1-012825	Q1216-01	30 Jan 2025 20:02	FG015264.D	15.048	
JPP-21.1-012825	Q1216-05	30 Jan 2025 20:31	FG015265.D	15.049	
JPP-21.2-012825	Q1216-09	30 Jan 2025 21:00	FG015266.D	15.050	
JPP-26.1-012825	Q1216-13	30 Jan 2025 21:28	FG015267.D	15.053	
JPP-26.2-012825	Q1216-17	30 Jan 2025 21:56	FG015268.D	15.048	
PIBLK03	LBLK03	30 Jan 2025 22:25	FG015269.D	15.051	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jan 2025 23:22	FG015270.D	15.052	



QC SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166361BL	SDG No.:	Q1216
Lab Sample ID:	PB166361BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015250.D	1	01/30/25 09:15	01/30/25 12:56	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1670	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.9		37 - 130	79%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015250.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 12:56
Operator : YP\AJ
Sample : PB166361BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166361BL

Integration File: autoint1.e
Quant Time: Jan 31 05:07:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.040	2037846	15.887 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

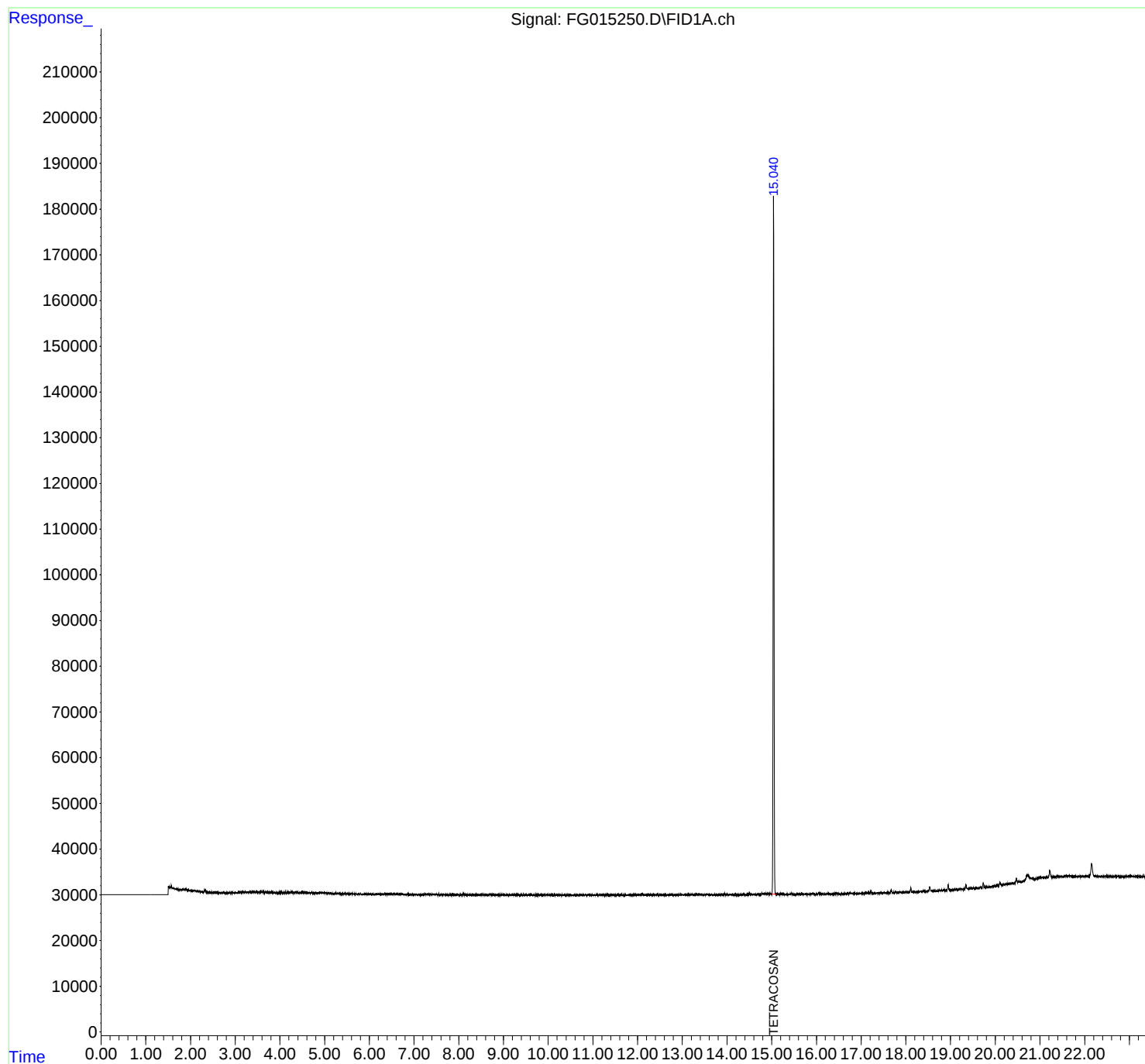
(m)=manual int.

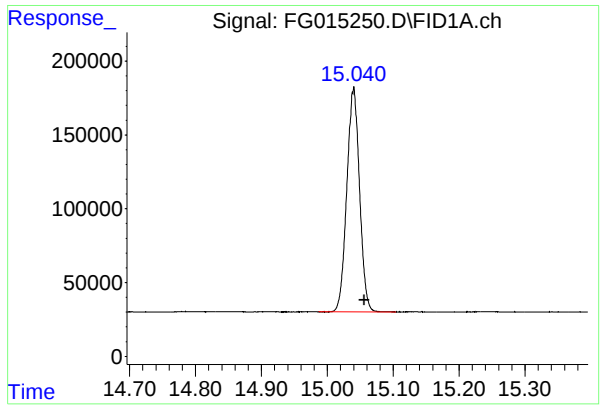
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015250.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 12:56
Operator : YP\AJ
Sample : PB166361BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166361BL

Integration File: autoint1.e
Quant Time: Jan 31 05:07:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.040 min

Delta R.T.: -0.016 min

Response: 2037846

Conc: 15.89 ug/ml

Instrument :

FID_G

ClientSampleId :

PB166361BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015250.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 12:56
Sample : PB166361BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.040	14.988	15.104	BB	151548	2037846	100.00%	100.000%
Sum of corrected areas:						2037846		

FG011325.M Fri Jan 31 05:58:33 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	PIBLK-FG015246.D	SDG No.:	Q1216
Lab Sample ID:	I.BLK-FG015246.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015246.D	1		01/30/25	FG013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.4		29 - 130	87%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015246.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 10:25
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: Jan 31 05:06:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.042	2229297	17.379 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

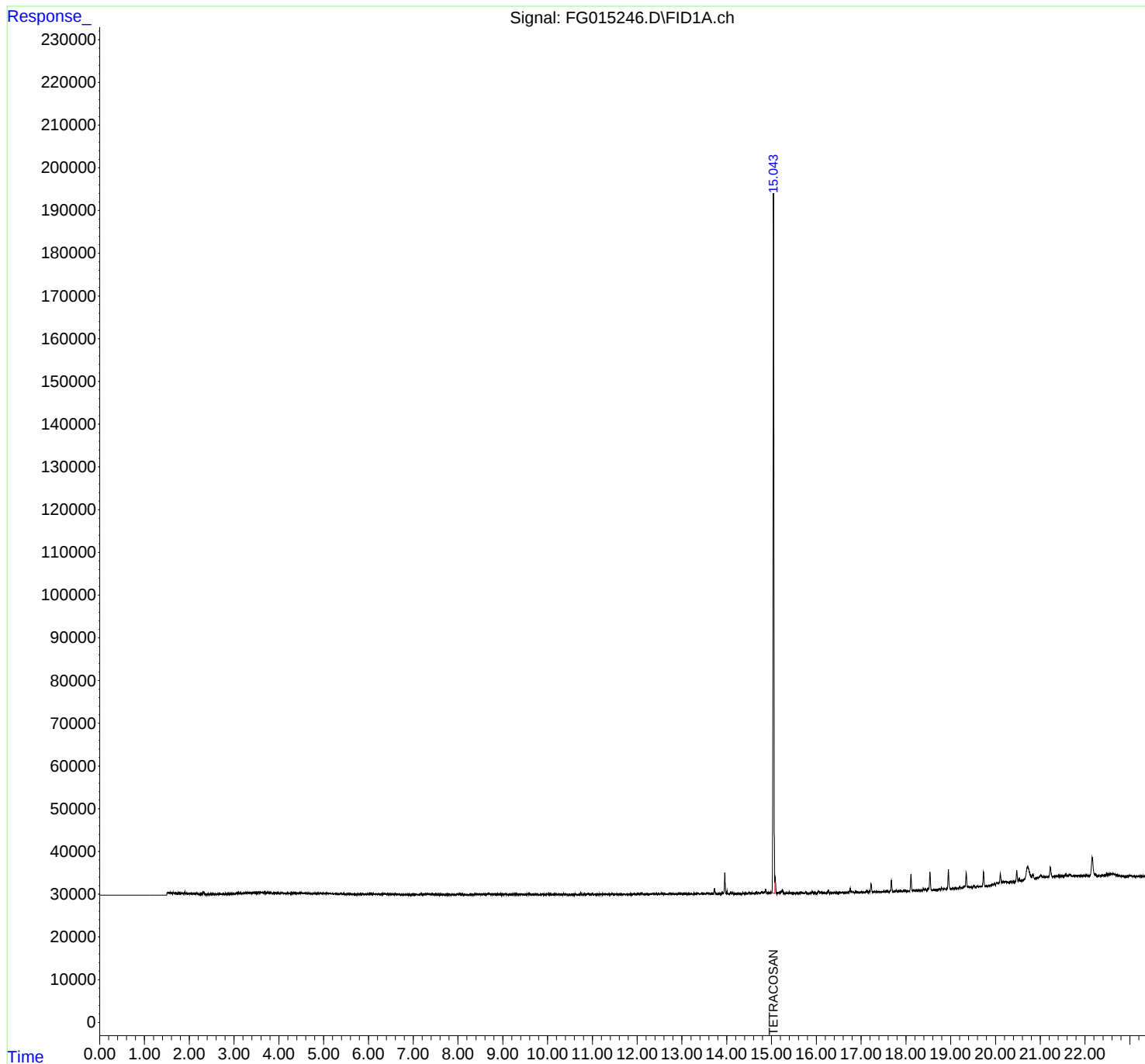
(m)=manual int.

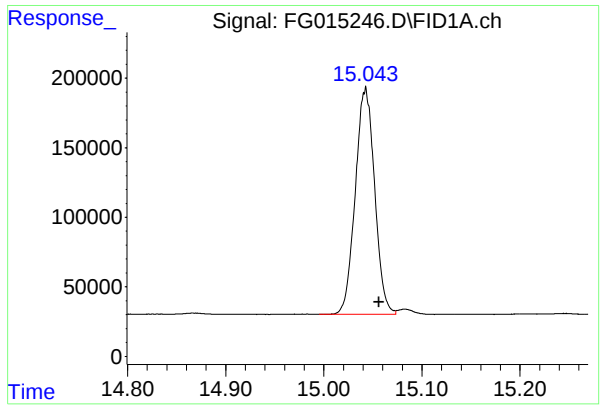
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015246.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 10:25
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jan 31 05:06:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.042 min
Delta R.T.: -0.014 min
Response: 2229297
Conc: 17.38 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015246.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 10:25
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.042	14.995	15.073	BV	162363	2229297	100.00%	100.000%
Sum of corrected areas:						2229297		

FG011325.M Fri Jan 31 05:56:36 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	PIBLK-FG015258.D	SDG No.:	Q1216
Lab Sample ID:	I.BLK-FG015258.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015258.D	1		01/30/25	FG013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.7		29 - 130	89%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015258.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 16:44
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
Quant Time: Jan 31 05:10:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.054	2273947	17.727 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015258.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 16:44
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

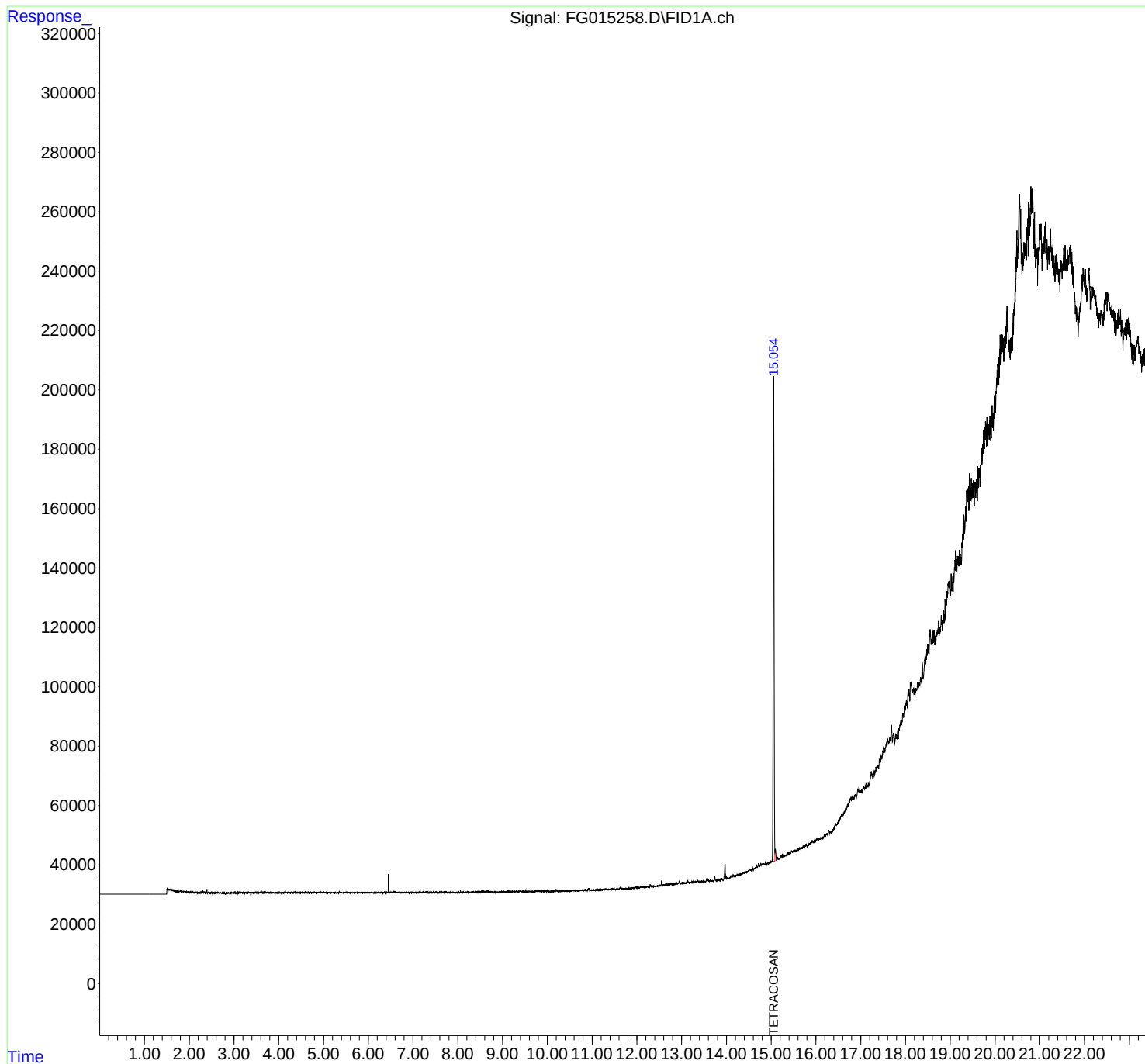
Instrument :
FID_G
ClientSampleId :
I.BLK

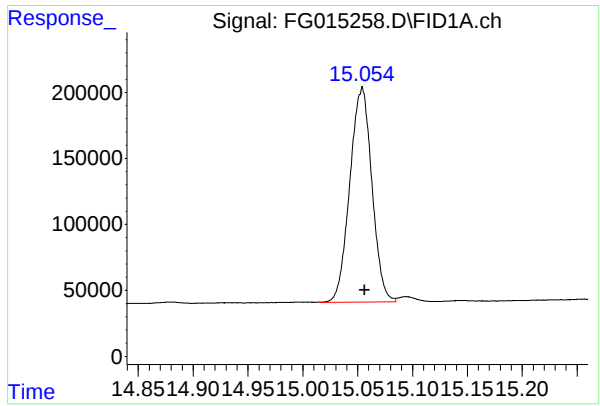
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File: autoint1.e
Quant Time: Jan 31 05:10:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.054 min
Delta R.T.: -0.002 min
Response: 2273947
Conc: 17.73 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/31/2025

Supervised By :Ankita Jodhani 01/31/2025

rteres

Instrument :

FID_G

LabSampleId :

I.BLK

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/31/2025

Supervised By :Ankita Jodhani 01/31/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG01302

Data File : FG015258.D

Signal(s) : FID1A.ch

Acq On : 30 Jan 2025 16:44

Sample : I.BLK

Misc :

ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.054	14.908	15.086	BV	163272	2286863	100.00%	100.000%
Sum of corrected areas:						2286863		

FG011325.M Fri Jan 31 06:00:08 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	PIBLK-FG015269.D	SDG No.:	Q1216
Lab Sample ID:	I.BLK-FG015269.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015269.D	1		01/30/25	FG013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.0		29 - 130	90%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015269.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 22:25
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: Jan 31 05:14:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.051	2312908	18.031 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

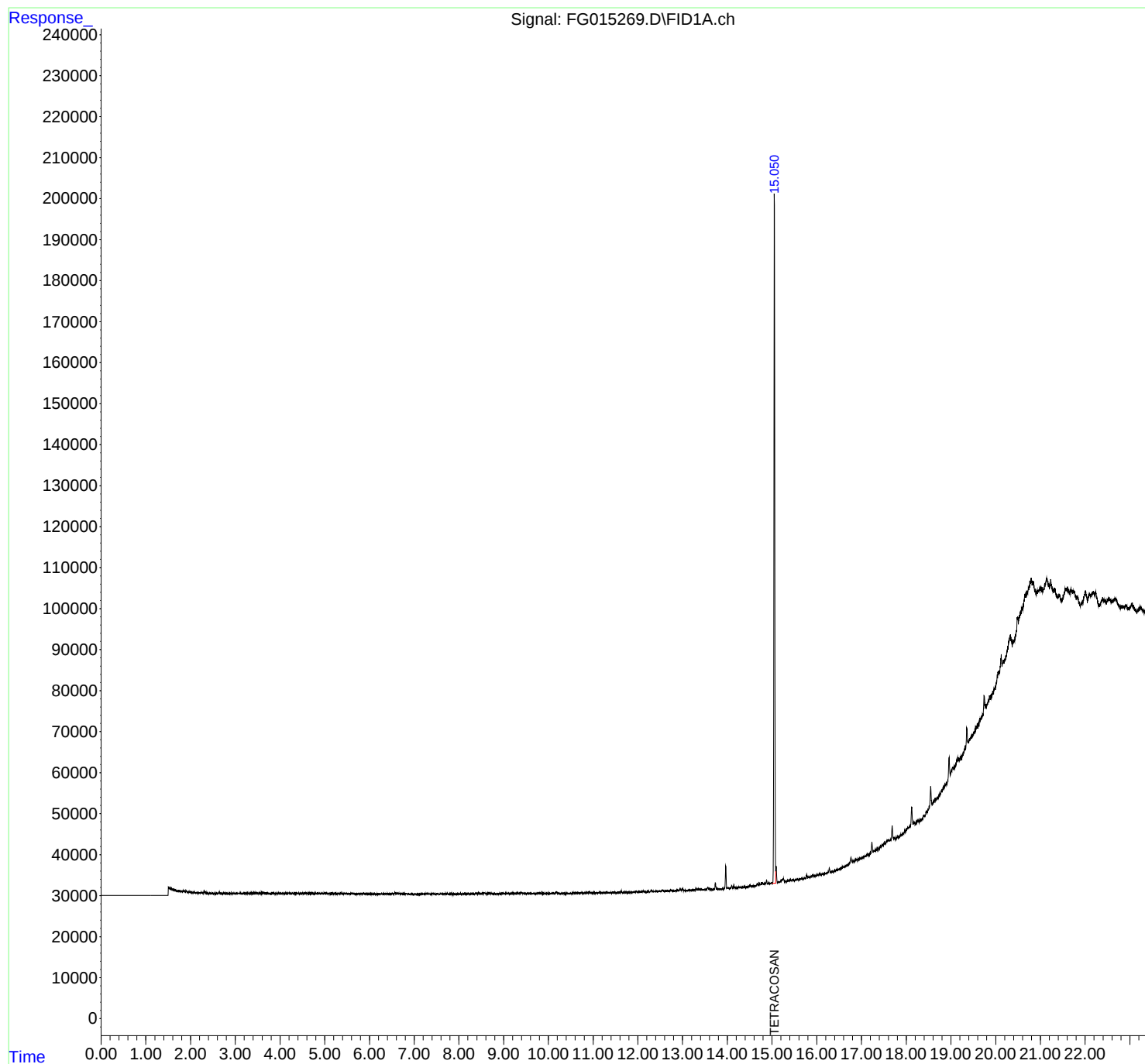
(m)=manual int.

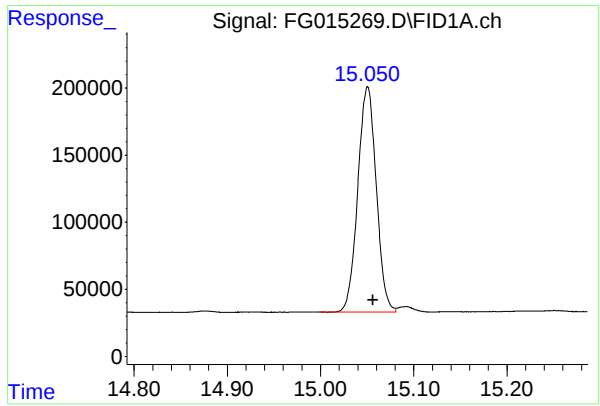
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015269.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 22:25
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jan 31 05:14:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.051 min
Delta R.T.: -0.005 min
Response: 2312908
Conc: 18.03 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015269.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 22:25
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.051	14.998	15.081	BV	167764	2312908	100.00%	100.000%
Sum of corrected areas:						2312908		

FG011325.M Fri Jan 31 06:02:42 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166361BS	SDG No.:	Q1216
Lab Sample ID:	PB166361BS	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
FG015249.D	1	01/30/25 09:15	01/30/25 12:28	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5210		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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015249.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 12:28
 Operator : YP\AJ
 Sample : PB166361BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB166361BS

Integration File: autoint1.e
 Quant Time: Jan 31 05:07:12 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.043	1962051	15.296 ug/ml
Target Compounds			
2) N-DECANE	4.537	2031031	15.723 ug/ml
3) N-DODECANE	6.719	2130150	15.636 ug/ml
4) N-TETRADECANE	8.556	2179688	15.926 ug/ml
5) N-HEXADECANE	10.171	2231699	15.815 ug/ml
6) N-OCTADECANE	11.620	2295559	15.649 ug/ml
7) N-EICOSANE	12.937	2319823	15.956 ug/ml
8) N-DOCOSANE	14.138	2243803	15.640 ug/ml
10) N-TETRACOSANE	15.246	2215095	15.509 ug/ml
11) N-HEXACOSANE	16.271	2175668	15.448 ug/ml
12) N-OCTACOSANE	17.223	2125560	15.179 ug/ml

(f)=RT Delta > 1/2 Window

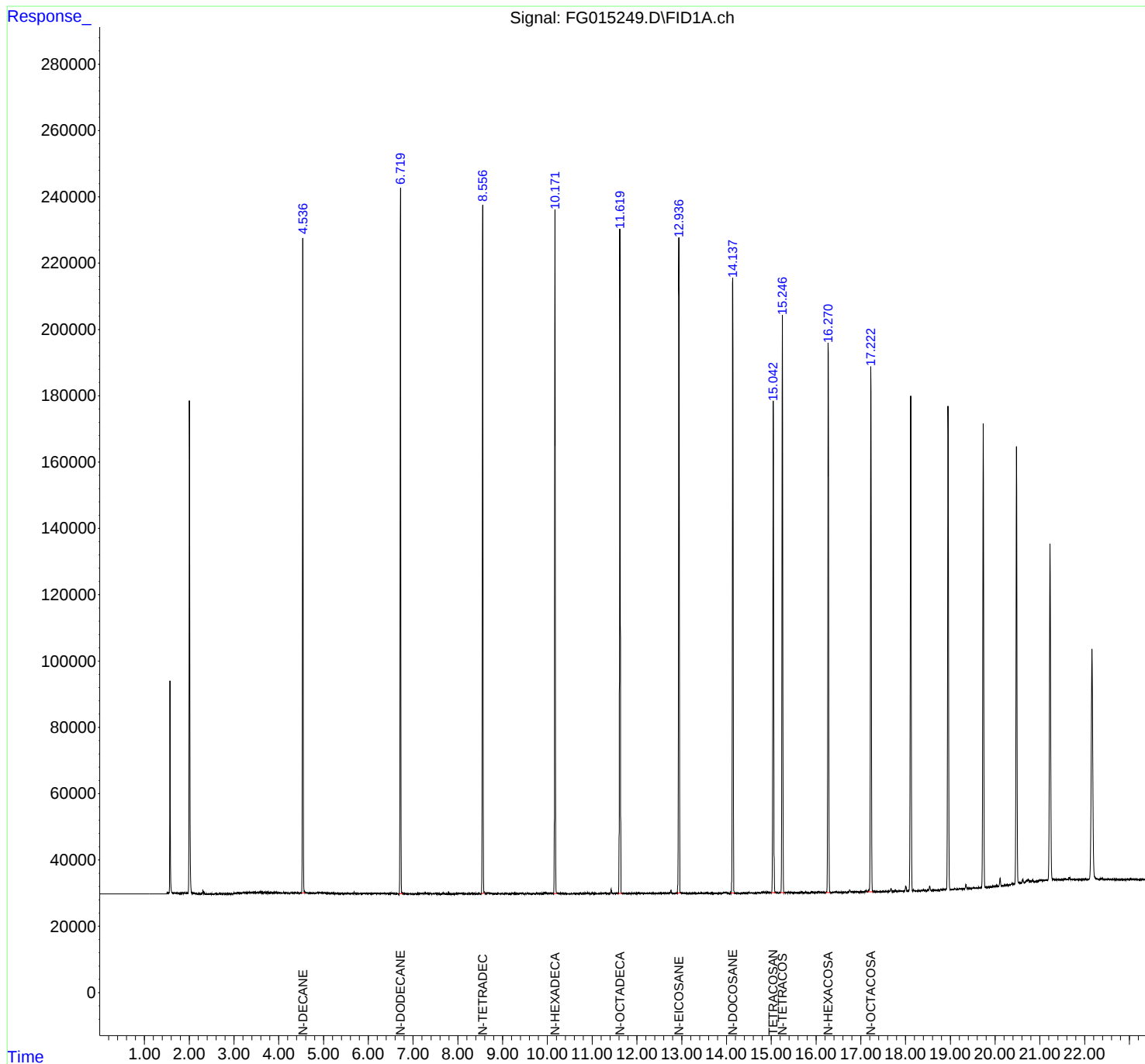
(m)=manual int.

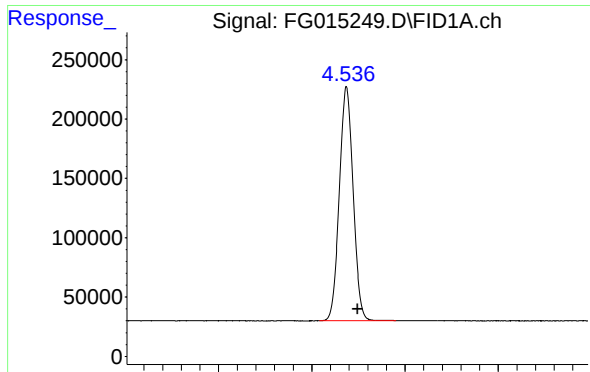
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015249.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 12:28
Operator : YP\AJ
Sample : PB166361BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166361BS

Integration File: autoint1.e
Quant Time: Jan 31 05:07:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

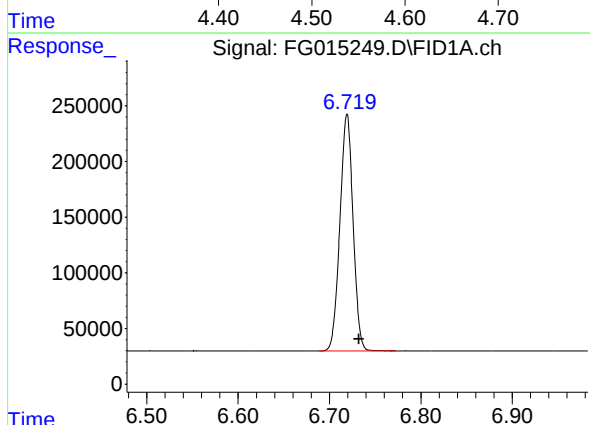




#2 N-DECANE

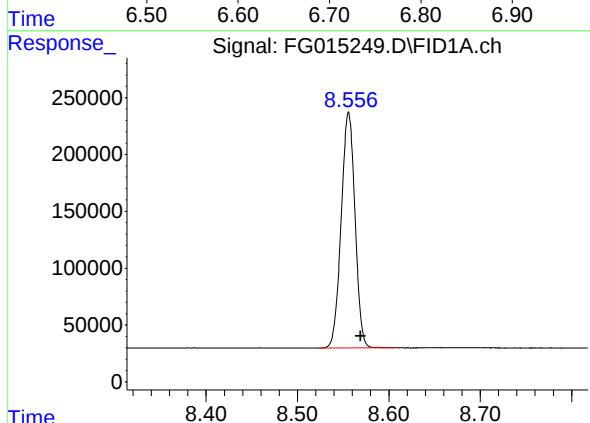
R.T.: 4.537 min
Delta R.T.: -0.012 min
Response: 2031031
Conc: 15.72 ug/ml

Instrument :
FID_G
ClientSampleId :
PB166361BS



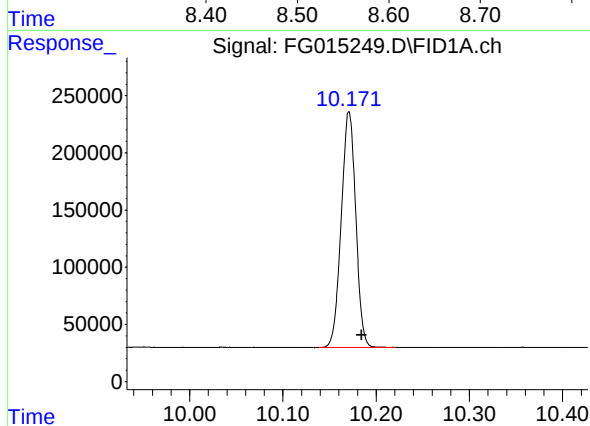
#3 N-DODECANE

R.T.: 6.719 min
Delta R.T.: -0.013 min
Response: 2130150
Conc: 15.64 ug/ml



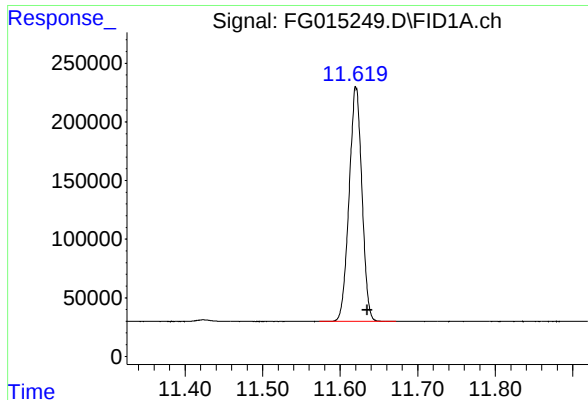
#4 N-TETRADECANE

R.T.: 8.556 min
Delta R.T.: -0.013 min
Response: 2179688
Conc: 15.93 ug/ml



#5 N-HEXADECANE

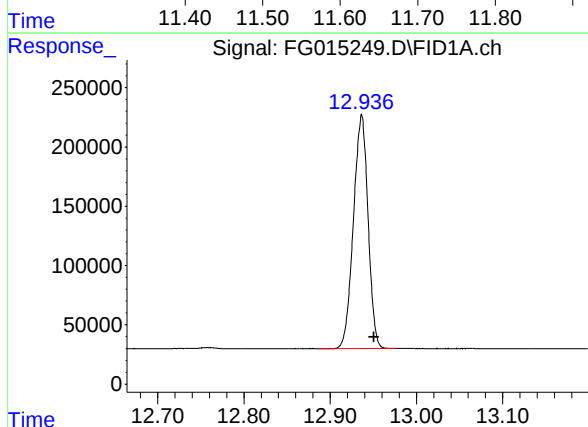
R.T.: 10.171 min
Delta R.T.: -0.013 min
Response: 2231699
Conc: 15.82 ug/ml



#6 N-OCTADECANE

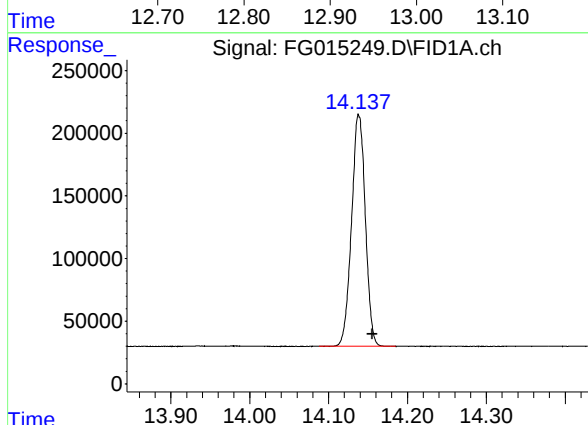
R.T.: 11.620 min
Delta R.T.: -0.015 min
Response: 2295559
Conc: 15.65 ug/ml

Instrument :
FID_G
ClientSampleId :
PB166361BS



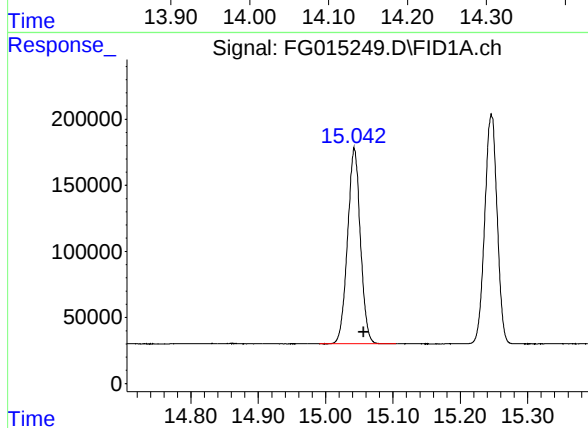
#7 N-EICOSANE

R.T.: 12.937 min
Delta R.T.: -0.014 min
Response: 2319823
Conc: 15.96 ug/ml



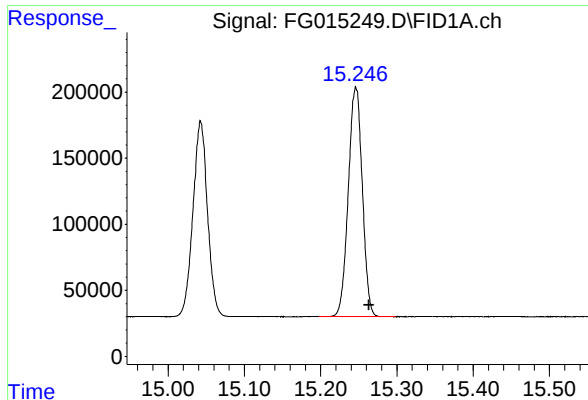
#8 N-DOCOSANE

R.T.: 14.138 min
Delta R.T.: -0.017 min
Response: 2243803
Conc: 15.64 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

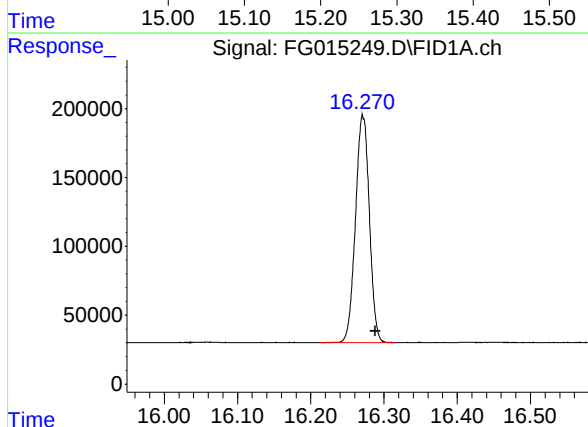
R.T.: 15.043 min
Delta R.T.: -0.014 min
Response: 1962051
Conc: 15.30 ug/ml



#10 N-TETRACOSANE

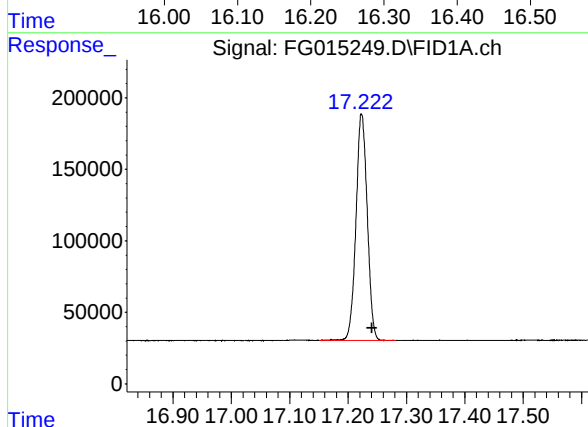
R.T.: 15.246 min
Delta R.T.: -0.017 min
Response: 2215095
Conc: 15.51 ug/ml

Instrument :
FID_G
ClientSampleId :
PB166361BS



#11 N-HEXACOSANE

R.T.: 16.271 min
Delta R.T.: -0.017 min
Response: 2175668
Conc: 15.45 ug/ml



#12 N-OCTACOSANE

R.T.: 17.223 min
Delta R.T.: -0.017 min
Response: 2125560
Conc: 15.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015249.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 12:28
Sample : PB166361BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.537	4.508	4.590	BB	197322	2031031	87.55%	8.494%
2	6.719	6.689	6.773	BB	212980	2130150	91.82%	8.909%
3	8.556	8.524	8.608	BB	207593	2179688	93.96%	9.116%
4	10.171	10.139	10.221	BB	206350	2231699	96.20%	9.334%
5	11.620	11.573	11.672	BB	199262	2295559	98.95%	9.601%
6	12.937	12.887	12.976	BB	197351	2319823	100.00%	9.702%
7	14.138	14.088	14.185	BB	184923	2243803	96.72%	9.384%
8	15.043	14.990	15.105	BB	147569	1962051	84.58%	8.206%
9	15.246	15.198	15.299	BB	173522	2215095	95.49%	9.264%
10	16.271	16.211	16.316	BB	164178	2175668	93.79%	9.099%
11	17.223	17.150	17.282	BB	158078	2125560	91.63%	8.890%
Sum of corrected areas:						23910127		

FG011325.M Fri Jan 31 05:58:14 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825MS	SDG No.:	Q1216
Lab Sample ID:	Q1215-01MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	Diesel Range Organics
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015260.D	1	01/30/25 09:15	01/30/25 18:09	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	81300	E	207	1870	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.6		37 - 130	88%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015260.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 18:09
 Operator : YP\AJ
 Sample : Q1215-01MS
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 JPP-29.1-012825MS

Integration File: autoint1.e
 Quant Time: Jan 31 05:11:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.055	2259116	17.612 ug/ml
Target Compounds			
2) N-DECANE	4.542	1869239	14.471 ug/ml
3) N-DODECANE	6.724	1980187	14.535 ug/ml
4) N-TETRADECANE	8.562	2081725	15.210 ug/ml
5) N-HEXADECANE	10.178	2717591	19.258 ug/ml
6) N-OCTADECANE	11.629	2320367	15.818 ug/ml
7) N-EICOSANE	12.948	3255199	22.390 ug/ml
8) N-DOCOSANE	14.150	3122737	21.767 ug/ml
10) N-TETRACOSANE	15.252	10718922	75.049 ug/ml
11) N-HEXACOSANE	16.286	2756362	19.571 ug/ml
12) N-OCTACOSANE	17.246	4416765	31.541 ug/ml

(f)=RT Delta > 1/2 Window

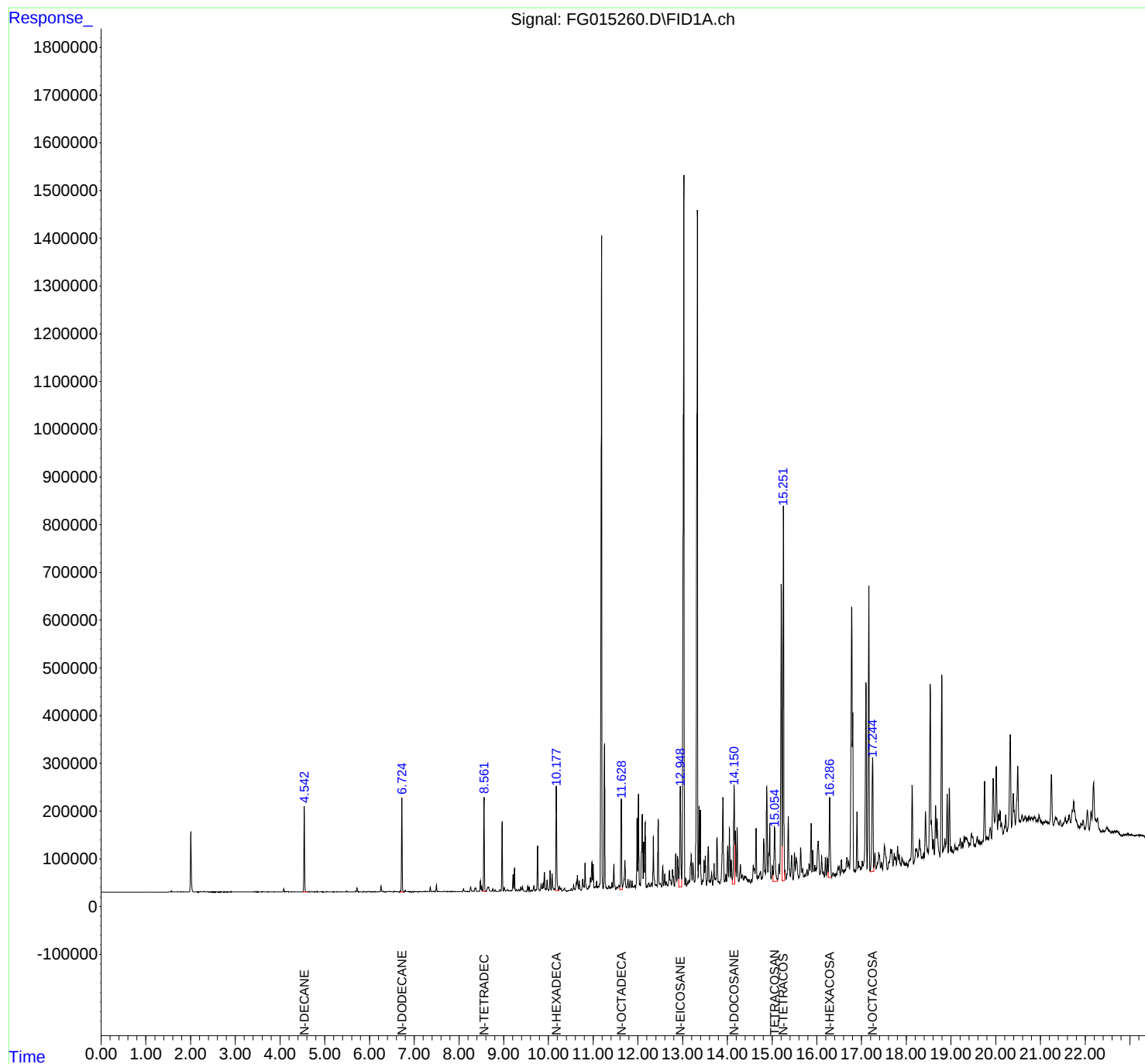
(m)=manual int.

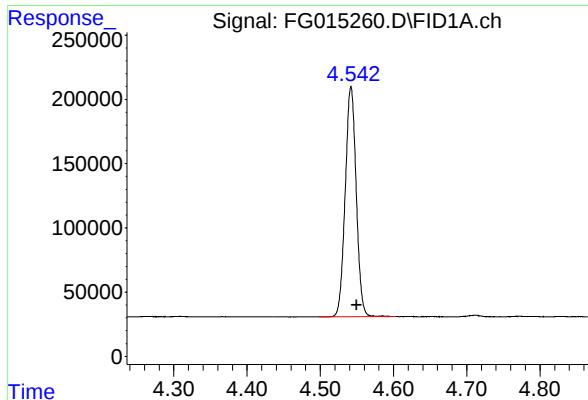
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015260.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 18:09
Operator : YP\AJ
Sample : Q1215-01MS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MS

Integration File: autoint1.e
Quant Time: Jan 31 05:11:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

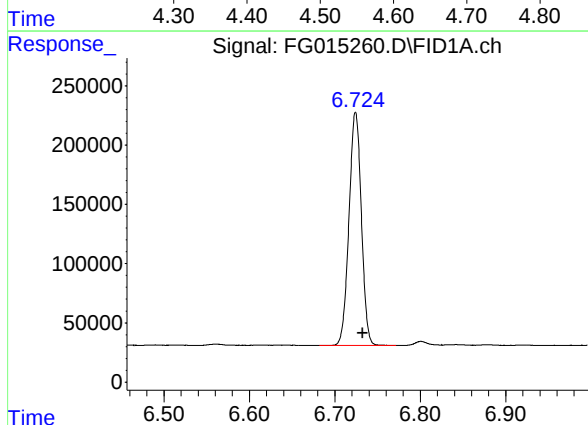




#2 N-DECANE

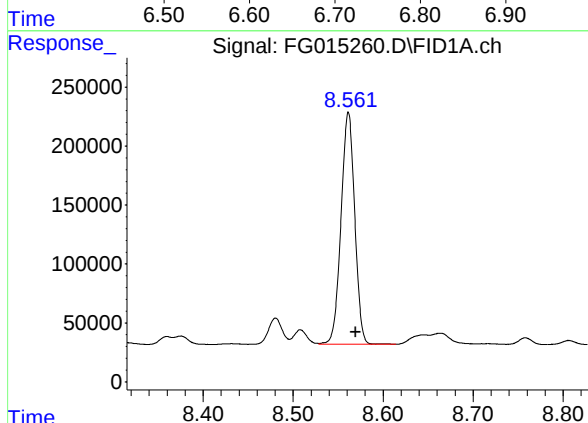
R.T.: 4.542 min
Delta R.T.: -0.007 min
Response: 1869239
Conc: 14.47 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MS



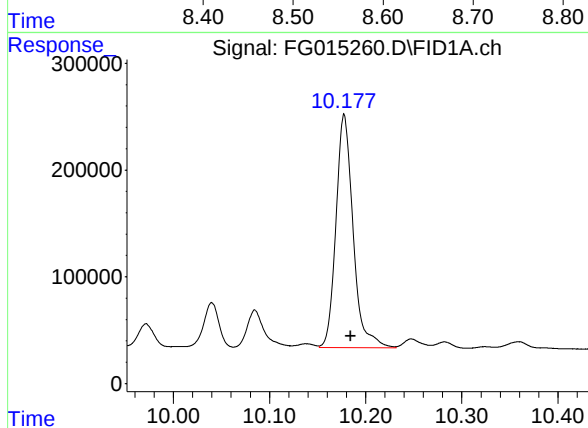
#3 N-DODECANE

R.T.: 6.724 min
Delta R.T.: -0.008 min
Response: 1980187
Conc: 14.53 ug/ml



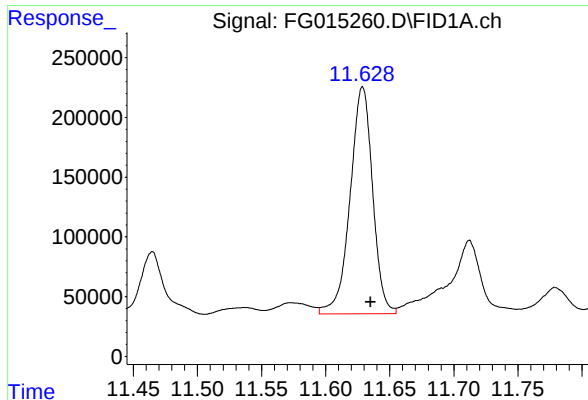
#4 N-TETRADECANE

R.T.: 8.562 min
Delta R.T.: -0.008 min
Response: 2081725
Conc: 15.21 ug/ml



#5 N-HEXADECANE

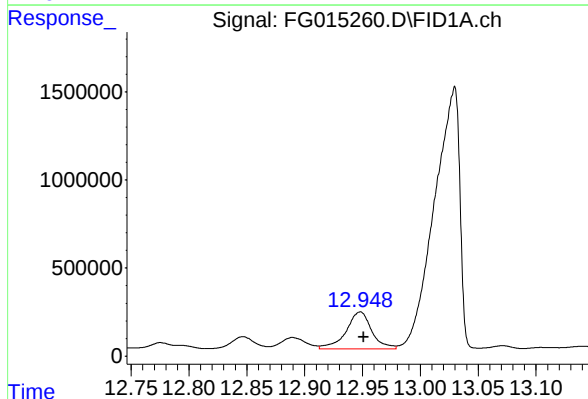
R.T.: 10.178 min
Delta R.T.: -0.007 min
Response: 2717591
Conc: 19.26 ug/ml



#6 N-OCTADECANE

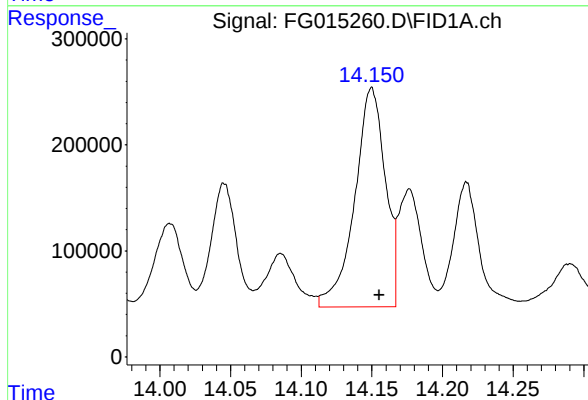
R.T.: 11.629 min
Delta R.T.: -0.006 min
Response: 2320367
Conc: 15.82 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MS



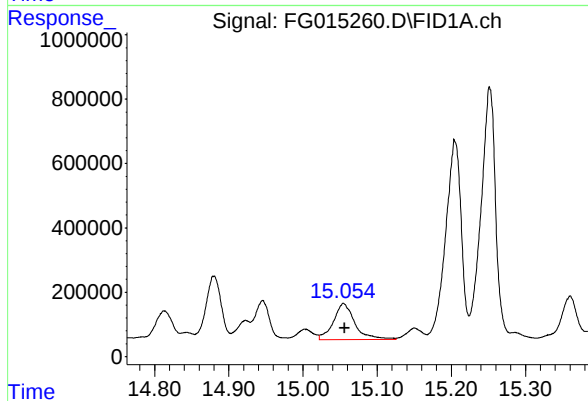
#7 N-EICOSANE

R.T.: 12.948 min
Delta R.T.: -0.003 min
Response: 3255199
Conc: 22.39 ug/ml



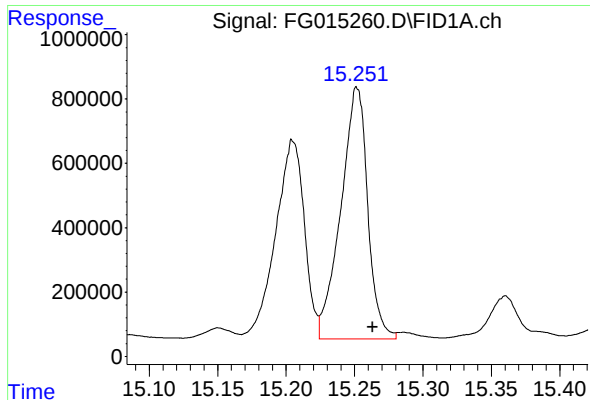
#8 N-DOCOSANE

R.T.: 14.150 min
Delta R.T.: -0.005 min
Response: 3122737
Conc: 21.77 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

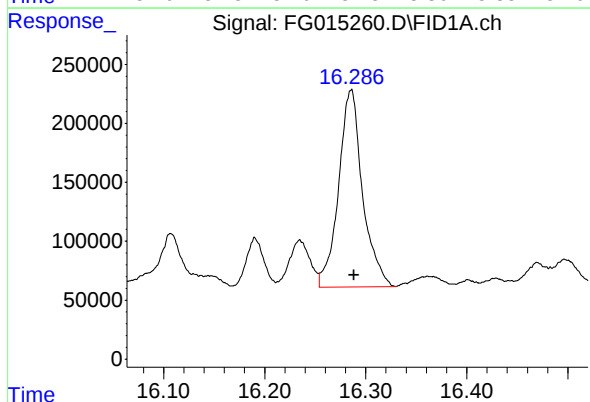
R.T.: 15.055 min
Delta R.T.: -0.001 min
Response: 2259116
Conc: 17.61 ug/ml



#10 N-TETRACOSANE

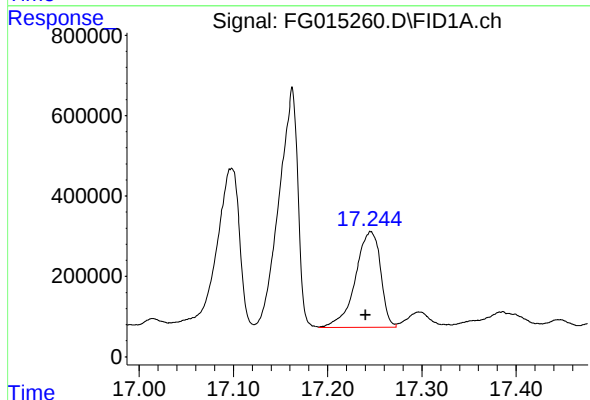
R.T.: 15.252 min
Delta R.T.: -0.011 min
Response: 10718922
Conc: 75.05 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MS



#11 N-HEXACOSANE

R.T.: 16.286 min
Delta R.T.: -0.003 min
Response: 2756362
Conc: 19.57 ug/ml



#12 N-OCTACOSANE

R.T.: 17.246 min
Delta R.T.: 0.005 min
Response: 4416765
Conc: 31.54 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015260.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 18:09
 Sample : Q1215-01MS
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.367	4.350	4.394	BH	70	-1367	-0.01%	-0.000%
2	4.399	4.394	4.404	PH	-94	-748	-0.00%	-0.000%
3	4.421	4.404	4.429	PH	-42	-1680	-0.01%	-0.001%
4	4.435	4.429	4.468	PH	1	-2851	-0.01%	-0.001%
5	4.481	4.468	4.492	PH	-29	-1337	-0.01%	-0.000%
6	4.542	4.492	4.578	PH	179081	1863064	8.06%	0.607%
7	4.584	4.578	4.613	HH	562	6278	0.03%	0.002%
8	4.619	4.613	4.635	HH	178	1240	0.01%	0.000%
9	4.646	4.635	4.681	PH	157	463	0.00%	0.000%
10	4.712	4.681	4.748	PH	1118	12663	0.05%	0.004%
11	4.773	4.748	4.815	PH	359	4833	0.02%	0.002%
12	4.825	4.815	4.843	PH	201	1431	0.01%	0.000%
13	4.854	4.843	4.868	PH	92	476	0.00%	0.000%
14	4.913	4.868	4.940	PH	483	8817	0.04%	0.003%
15	4.956	4.940	4.978	HH	271	2566	0.01%	0.001%
16	4.989	4.978	4.996	PH	124	277	0.00%	0.000%
17	5.002	4.996	5.024	PH	88	502	0.00%	0.000%
18	5.052	5.024	5.078	PH	399	4103	0.02%	0.001%
19	5.098	5.078	5.128	PH	46	-1721	-0.01%	-0.001%
20	5.133	5.128	5.146	PH	-35	-628	-0.00%	-0.000%
21	5.185	5.146	5.195	PH	263	1678	0.01%	0.001%
22	5.203	5.195	5.222	HH	259	1373	0.01%	0.000%
23	5.227	5.222	5.239	PH	49	-475	-0.00%	-0.000%
24	5.267	5.239	5.283	PH	145	280	0.00%	0.000%
25	5.304	5.283	5.320	PH	338	2377	0.01%	0.001%
26	5.333	5.320	5.345	PH	-12	-807	-0.00%	-0.000%
27	5.363	5.345	5.385	PH	239	1390	0.01%	0.000%
28	5.389	5.385	5.399	PH	-66	-928	-0.00%	-0.000%
29	5.403	5.399	5.413	PH	-134	-1392	-0.01%	-0.000%
30	5.432	5.413	5.447	PH	-76	-2875	-0.01%	-0.001%
31	5.490	5.447	5.519	PH	1688	13523	0.06%	0.004%
32	5.524	5.519	5.543	PH	122	162	0.00%	0.000%
33	5.561	5.543	5.587	PH	21	-1585	-0.01%	-0.001%
34	5.593	5.587	5.599	PH	-96	-919	-0.00%	-0.000%
35	5.604	5.599	5.614	PH	-115	-1263	-0.01%	-0.000%
36	5.625	5.614	5.635	PH	-27	-1056	-0.00%	-0.000%

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37	5.638	5.635	5.646	PH	-138	-1024	-0.00%	-0.000%
38	5.650	5.646	5.671	PH	-105	-2319	-0.01%	-0.001%
39	5.688	5.671	5.704	PH	848	8073	0.03%	0.003%
40	5.722	5.704	5.755	HH	8350	83022	0.36%	0.027%
41	5.765	5.755	5.786	HH	280	2360	0.01%	0.001%
42	5.796	5.786	5.832	PH	118	246	0.00%	0.000%
43	5.854	5.832	5.861	PH	102	158	0.00%	0.000%
44	5.878	5.861	5.913	PH	422	4281	0.02%	0.001%
45	5.922	5.913	5.929	PH	21	-393	-0.00%	-0.000%
46	5.950	5.929	5.963	PH	471	5074	0.02%	0.002%
47	5.979	5.963	6.000	HH	979	11213	0.05%	0.004%
48	6.004	6.000	6.030	HH	341	3100	0.01%	0.001%
49	6.035	6.030	6.040	PH	70	154	0.00%	0.000%
50	6.058	6.040	6.091	PH	196	2495	0.01%	0.001%
51	6.100	6.091	6.123	PH	193	1154	0.00%	0.000%
52	6.133	6.123	6.148	PH	118	511	0.00%	0.000%
53	6.162	6.148	6.188	PH	273	2818	0.01%	0.001%
54	6.223	6.188	6.238	PH	966	10515	0.05%	0.003%
55	6.258	6.238	6.293	HH	11804	126543	0.55%	0.041%
56	6.309	6.293	6.338	HH	779	10917	0.05%	0.004%
57	6.366	6.338	6.387	PH	356	5129	0.02%	0.002%
58	6.408	6.387	6.418	HH	499	6624	0.03%	0.002%
59	6.438	6.418	6.471	HH	1402	22843	0.10%	0.007%
60	6.490	6.471	6.502	HH	509	6048	0.03%	0.002%
61	6.514	6.502	6.532	HH	374	5074	0.02%	0.002%
62	6.561	6.532	6.599	HH	1226	18274	0.08%	0.006%
63	6.611	6.599	6.627	HH	293	4868	0.02%	0.002%
64	6.634	6.627	6.658	HH	376	4865	0.02%	0.002%
65	6.664	6.658	6.694	HH	161	2706	0.01%	0.001%
66	6.724	6.694	6.779	HH	196884	1984818	8.59%	0.647%
67	6.801	6.779	6.828	HH	3514	39420	0.17%	0.013%
68	6.843	6.828	6.864	HH	802	12222	0.05%	0.004%
69	6.880	6.864	6.908	HH	700	9626	0.04%	0.003%
70	6.918	6.908	6.947	HH	446	6280	0.03%	0.002%
71	6.957	6.947	6.970	HH	224	2572	0.01%	0.001%
72	6.976	6.970	6.984	HH	220	1494	0.01%	0.000%
73	7.006	6.984	7.031	HH	766	9577	0.04%	0.003%
74	7.050	7.031	7.096	HH	862	14386	0.06%	0.005%
75	7.129	7.096	7.148	HH	784	12332	0.05%	0.004%
76	7.163	7.148	7.194	HH	309	6018	0.03%	0.002%
77	7.217	7.194	7.245	HH	1150	20296	0.09%	0.007%
78	7.259	7.245	7.278	HH	957	15119	0.07%	0.005%
79	7.296	7.278	7.330	HH	978	17610	0.08%	0.006%
80	7.359	7.330	7.382	HH	10177	110285	0.48%	0.036%
81	7.398	7.382	7.429	HH	1299	24560	0.11%	0.008%
82	7.448	7.429	7.474	HH	1428	22532	0.10%	0.007%
83	7.497	7.474	7.528	HH	14809	151993	0.66%	0.050%
84	7.545	7.528	7.565	HH	614	11005	0.05%	0.004%
85	7.570	7.565	7.592	HH	431	5988	0.03%	0.002%
86	7.599	7.592	7.604	HH	385	2417	0.01%	0.001%
87	7.618	7.604	7.643	HH	599	10734	0.05%	0.003%
88	7.674	7.643	7.704	HH	2063	33699	0.15%	0.011%
89	7.737	7.704	7.755	HH	805	17759	0.08%	0.006%

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90	7.761	7.755	7.781	HH	719	7587	0.03%	0.002%
91	7.795	7.781	7.800	HH	647	5819	0.03%	0.002%
92	7.822	7.800	7.838	HH	734	14513	0.06%	0.005%
93	7.852	7.838	7.882	HH	884	15437	0.07%	0.005%
94	7.901	7.882	7.918	HH	658	10612	0.05%	0.003%
95	7.925	7.918	7.934	HH	367	2747	0.01%	0.001%
96	7.963	7.934	7.980	HH	625	12094	0.05%	0.004%
97	7.985	7.980	7.998	HH	424	3881	0.02%	0.001%
98	8.012	7.998	8.035	HH	526	10112	0.04%	0.003%
99	8.039	8.035	8.050	HH	371	3276	0.01%	0.001%
100	8.061	8.050	8.073	HH	473	5256	0.02%	0.002%
101	8.102	8.073	8.151	HH	6860	104798	0.45%	0.034%
102	8.164	8.151	8.192	HH	943	19591	0.08%	0.006%
103	8.205	8.192	8.225	HH	930	14422	0.06%	0.005%
104	8.261	8.225	8.294	HH	10678	156042	0.68%	0.051%
105	8.315	8.294	8.341	HH	2359	43762	0.19%	0.014%
106	8.360	8.341	8.366	HH	7541	72937	0.32%	0.024%
107	8.375	8.366	8.412	HH	7991	100281	0.43%	0.033%
108	8.432	8.412	8.450	HH	1546	28044	0.12%	0.009%
109	8.481	8.450	8.496	HH	23213	260749	1.13%	0.085%
110	8.508	8.496	8.529	HH	13297	143447	0.62%	0.047%
111	8.562	8.529	8.591	HH	197754	2117596	9.17%	0.690%
112	8.601	8.591	8.614	HH	1369	17543	0.08%	0.006%
113	8.645	8.614	8.651	HH	8967	125351	0.54%	0.041%
114	8.664	8.651	8.702	HH	10376	171644	0.74%	0.056%
115	8.717	8.702	8.737	HH	1515	26954	0.12%	0.009%
116	8.758	8.737	8.783	HH	6561	79958	0.35%	0.026%
117	8.806	8.783	8.827	HH	4252	55830	0.24%	0.018%
118	8.836	8.827	8.857	HH	1237	18745	0.08%	0.006%
119	8.870	8.857	8.882	HH	1062	14682	0.06%	0.005%
120	8.918	8.882	8.941	HH	4689	76513	0.33%	0.025%
121	8.966	8.941	8.994	HH	147767	1487156	6.44%	0.485%
122	9.014	8.994	9.057	HH	9178	155612	0.67%	0.051%
123	9.083	9.057	9.101	HH	5056	85991	0.37%	0.028%
124	9.108	9.101	9.123	HH	2983	34237	0.15%	0.011%
125	9.135	9.123	9.147	HH	2676	33605	0.15%	0.011%
126	9.161	9.147	9.185	HH	2929	58215	0.25%	0.019%
127	9.211	9.185	9.226	HH	36702	419985	1.82%	0.137%
128	9.242	9.226	9.267	HH	49836	515644	2.23%	0.168%
129	9.283	9.267	9.317	HH	4875	88968	0.39%	0.029%
130	9.336	9.317	9.360	HH	5800	84129	0.36%	0.027%
131	9.382	9.360	9.404	HH	10375	149088	0.65%	0.049%
132	9.423	9.404	9.472	HH	11793	184559	0.80%	0.060%
133	9.486	9.472	9.513	HH	1546	32240	0.14%	0.011%
134	9.539	9.513	9.556	HH	12175	150159	0.65%	0.049%
135	9.571	9.556	9.600	HH	10477	128111	0.55%	0.042%
136	9.622	9.600	9.639	HH	3946	56641	0.25%	0.018%
137	9.676	9.639	9.699	HH	12941	202694	0.88%	0.066%
138	9.718	9.699	9.731	HH	4822	66929	0.29%	0.022%
139	9.759	9.731	9.813	HH	96116	1138815	4.93%	0.371%
140	9.839	9.813	9.854	HH	15973	213242	0.92%	0.069%
141	9.882	9.854	9.894	HH	17645	250400	1.08%	0.082%

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142	9.912	9.894	9.932	HH	41090	520624	2.25%	0.170%
143	9.941	9.932	9.952	HH	6396	65988	0.29%	0.021%
144	9.972	9.952	10.003	HH	25268	351030	1.52%	0.114%
145	10.040	10.003	10.063	HH	44977	572064	2.48%	0.186%
146	10.085	10.063	10.124	HH	38065	542506	2.35%	0.177%
147	10.138	10.124	10.152	HH	6468	92083	0.40%	0.030%
148	10.178	10.152	10.232	HH	221759	2846712	12.32%	0.927%
149	10.248	10.232	10.268	HH	11041	160550	0.69%	0.052%
150	10.282	10.268	10.306	HH	8212	119884	0.52%	0.039%
151	10.324	10.306	10.333	HH	3707	50810	0.22%	0.017%
152	10.359	10.333	10.405	HH	8346	182564	0.79%	0.059%
153	10.409	10.405	10.427	HH	1777	21228	0.09%	0.007%
154	10.453	10.427	10.469	HH	3500	63486	0.27%	0.021%
155	10.485	10.469	10.494	HH	3102	41993	0.18%	0.014%
156	10.511	10.494	10.529	HH	7311	103101	0.45%	0.034%
157	10.537	10.529	10.544	HH	3550	30826	0.13%	0.010%
158	10.563	10.544	10.598	HH	15079	249816	1.08%	0.081%
159	10.625	10.598	10.634	HH	19300	260957	1.13%	0.085%
160	10.649	10.634	10.672	HH	35097	482538	2.09%	0.157%
161	10.690	10.672	10.728	HH	22767	342866	1.48%	0.112%
162	10.768	10.728	10.800	HH	26333	535398	2.32%	0.174%
163	10.821	10.800	10.880	HH	60496	920803	3.99%	0.300%
164	10.905	10.880	10.915	HH	11047	169240	0.73%	0.055%
165	10.941	10.915	10.952	HH	30554	434652	1.88%	0.142%
166	10.974	10.952	10.989	HH	62437	929896	4.02%	0.303%
167	11.002	10.989	11.023	HH	57874	671186	2.90%	0.219%
168	11.048	11.023	11.060	HH	11230	221903	0.96%	0.072%
169	11.078	11.060	11.096	HH	21396	320131	1.39%	0.104%
170	11.112	11.096	11.127	HH	11940	191646	0.83%	0.062%
171	11.144	11.127	11.148	HH	16042	174369	0.75%	0.057%
172	11.190	11.148	11.224	HH	1358733	17169956	74.31%	5.594%
173	11.254	11.224	11.292	HH	310446	3414675	14.78%	1.113%
174	11.302	11.292	11.318	HH	9665	126684	0.55%	0.041%
175	11.327	11.318	11.333	HH	6867	59546	0.26%	0.019%
176	11.351	11.333	11.373	HH	12016	227092	0.98%	0.074%
177	11.387	11.373	11.403	HH	10480	161384	0.70%	0.053%
178	11.421	11.403	11.444	HH	19302	327616	1.42%	0.107%
179	11.465	11.444	11.506	HH	56847	833133	3.61%	0.271%
180	11.537	11.506	11.552	HH	10038	224868	0.97%	0.073%
181	11.573	11.552	11.595	HH	14007	297340	1.29%	0.097%
182	11.629	11.595	11.655	HH	194834	2495076	10.80%	0.813%
183	11.712	11.655	11.749	HH	66487	1424324	6.16%	0.464%
184	11.779	11.749	11.801	HH	26756	496461	2.15%	0.162%
185	11.827	11.801	11.849	HH	23431	437552	1.89%	0.143%
186	11.871	11.849	11.893	HH	22867	385788	1.67%	0.126%
187	11.910	11.893	11.919	HH	11806	163989	0.71%	0.053%
188	11.934	11.919	11.952	HH	13959	223347	0.97%	0.073%
189	11.983	11.952	11.998	HH	154686	1916802	8.30%	0.625%
190	12.014	11.998	12.036	HH	205163	2284428	9.89%	0.744%
191	12.044	12.036	12.057	HH	17362	202001	0.87%	0.066%
192	12.099	12.057	12.115	HH	162605	2728238	11.81%	0.889%
193	12.131	12.115	12.146	HH	104619	1248622	5.40%	0.407%
194	12.163	12.146	12.191	HH	146021	1820926	7.88%	0.593%

					rteres			
195	12.207	12.191	12.218	HH	12639	177727	0.77%	0.058%
196	12.243	12.218	12.264	HH	18902	409228	1.77%	0.133%
197	12.304	12.264	12.322	HH	18721	497856	2.15%	0.162%
198	12.347	12.322	12.388	HH	116530	1771570	7.67%	0.577%
199	12.397	12.388	12.408	HH	14991	173252	0.75%	0.056%
200	12.416	12.408	12.429	HH	14894	166086	0.72%	0.054%
201	12.454	12.429	12.479	HH	151957	1949048	8.44%	0.635%
202	12.496	12.479	12.532	HH	17190	486832	2.11%	0.159%
203	12.557	12.532	12.577	HH	53995	769488	3.33%	0.251%
204	12.602	12.577	12.620	HH	38331	617082	2.67%	0.201%
205	12.636	12.620	12.672	HH	20854	504866	2.19%	0.164%
206	12.705	12.672	12.722	HH	43921	812560	3.52%	0.265%
207	12.728	12.722	12.750	HH	25340	356431	1.54%	0.116%
208	12.775	12.750	12.815	HH	46832	1052192	4.55%	0.343%
209	12.847	12.815	12.870	HH	80207	1318974	5.71%	0.430%
210	12.890	12.870	12.912	HH	75204	1241961	5.38%	0.405%
211	12.948	12.912	12.979	HH	221303	3677106	15.91%	1.198%
212	13.029	12.979	13.051	HH	1495330	23105209	100.00%	7.528%
213	13.071	13.051	13.088	HH	28761	455631	1.97%	0.148%
214	13.105	13.088	13.120	HH	18758	310879	1.35%	0.101%
215	13.140	13.120	13.153	HH	25277	428123	1.85%	0.139%
216	13.192	13.153	13.212	HH	78187	1709965	7.40%	0.557%
217	13.230	13.212	13.267	HH	60640	1228251	5.32%	0.400%
218	13.330	13.267	13.347	HH	1427806	21696209	93.90%	7.069%
219	13.366	13.347	13.382	HH	179220	2145062	9.28%	0.699%
220	13.396	13.382	13.425	HH	171151	2085185	9.02%	0.679%
221	13.446	13.425	13.460	HH	24537	434626	1.88%	0.142%
222	13.480	13.460	13.493	HH	66743	906110	3.92%	0.295%
223	13.508	13.493	13.532	HH	75351	1087115	4.71%	0.354%
224	13.573	13.532	13.597	HH	94350	1592629	6.89%	0.519%
225	13.609	13.597	13.621	HH	23573	314123	1.36%	0.102%
226	13.645	13.621	13.671	HH	40862	832130	3.60%	0.271%
227	13.702	13.671	13.721	HH	59174	1036132	4.48%	0.338%
228	13.731	13.721	13.741	HH	27998	324002	1.40%	0.106%
229	13.768	13.741	13.797	HH	114060	1909078	8.26%	0.622%
230	13.804	13.797	13.810	HH	21290	165747	0.72%	0.054%
231	13.814	13.810	13.831	HH	21363	248893	1.08%	0.081%
232	13.900	13.831	13.935	HH	198431	4306913	18.64%	1.403%
233	13.964	13.935	13.982	HH	36350	757212	3.28%	0.247%
234	14.007	13.982	14.026	HH	94730	1532009	6.63%	0.499%
235	14.045	14.026	14.067	HH	132886	1853856	8.02%	0.604%
236	14.085	14.067	14.112	HH	66725	1190038	5.15%	0.388%
237	14.150	14.112	14.167	HH	223943	3652769	15.81%	1.190%
238	14.177	14.167	14.197	HH	127963	1565969	6.78%	0.510%
239	14.217	14.197	14.256	HH	134588	2091275	9.05%	0.681%
240	14.290	14.256	14.313	HH	57080	1289106	5.58%	0.420%
241	14.336	14.313	14.358	HH	35860	841194	3.64%	0.274%
242	14.379	14.358	14.393	HH	33105	615632	2.66%	0.201%
243	14.406	14.393	14.441	HH	32948	851001	3.68%	0.277%
244	14.448	14.441	14.471	HH	25734	432315	1.87%	0.141%
245	14.485	14.471	14.519	HH	26342	651985	2.82%	0.212%
246	14.539	14.519	14.554	HH	25590	472540	2.05%	0.154%

rteres								
247	14.579	14.554	14.593	HH	55533	1004481	4.35%	0.327%
248	14.604	14.593	14.618	HH	48824	672184	2.91%	0.219%
249	14.639	14.618	14.668	HH	132319	2104433	9.11%	0.686%
250	14.683	14.668	14.697	HH	33445	536688	2.32%	0.175%
251	14.739	14.697	14.771	HH	43212	1531857	6.63%	0.499%
252	14.813	14.771	14.835	HH	110473	2306058	9.98%	0.751%
253	14.843	14.835	14.854	HH	44502	478301	2.07%	0.156%
254	14.880	14.854	14.903	HH	219328	3453287	14.95%	1.125%
255	14.923	14.903	14.929	HH	82219	1016638	4.40%	0.331%
256	14.946	14.929	14.980	HH	143469	2333879	10.10%	0.760%
257	15.003	14.980	15.022	HH	54126	1041372	4.51%	0.339%
258	15.055	15.022	15.125	HH	134677	3623279	15.68%	1.181%
259	15.150	15.125	15.167	HH	58314	1087974	4.71%	0.354%
260	15.205	15.167	15.224	HH	636690	9891725	42.81%	3.223%
261	15.252	15.224	15.280	HH	805460	11494150	49.75%	3.745%
262	15.286	15.280	15.314	HH	44417	727461	3.15%	0.237%
263	15.360	15.314	15.405	HH	157701	3529187	15.27%	1.150%
264	15.434	15.405	15.467	HH	76454	1793716	7.76%	0.584%
265	15.499	15.467	15.520	HH	82681	1633779	7.07%	0.532%
266	15.537	15.520	15.596	HH	69756	2316856	10.03%	0.755%
267	15.638	15.596	15.666	HH	92063	2230054	9.65%	0.727%
268	15.682	15.666	15.707	HH	47987	978206	4.23%	0.319%
269	15.733	15.707	15.752	HH	34968	897582	3.88%	0.292%
270	15.780	15.752	15.797	HH	46417	1102593	4.77%	0.359%
271	15.826	15.797	15.846	HH	58252	1372107	5.94%	0.447%
272	15.873	15.846	15.892	HH	143278	2421475	10.48%	0.789%
273	15.909	15.892	15.939	HH	86445	1657916	7.18%	0.540%
274	15.955	15.939	15.970	HH	55547	910335	3.94%	0.297%
275	15.979	15.970	15.984	HH	47606	395597	1.71%	0.129%
276	16.029	15.984	16.066	HH	106220	3500800	15.15%	1.141%
277	16.107	16.066	16.168	HH	75698	2811251	12.17%	0.916%
278	16.190	16.168	16.212	HH	72357	1285885	5.57%	0.419%
279	16.235	16.212	16.254	HH	70493	1340628	5.80%	0.437%
280	16.286	16.254	16.330	HH	197444	4138363	17.91%	1.348%
281	16.362	16.330	16.390	HH	39470	1283491	5.55%	0.418%
282	16.401	16.390	16.413	HH	36561	479571	2.08%	0.156%
283	16.429	16.413	16.438	HH	38002	549583	2.38%	0.179%
284	16.443	16.438	16.447	HH	35632	195436	0.85%	0.064%
285	16.470	16.447	16.485	HH	51066	1006587	4.36%	0.328%
286	16.497	16.485	16.522	HH	54028	1030086	4.46%	0.336%
287	16.547	16.522	16.567	HH	67934	1402783	6.07%	0.457%
288	16.575	16.567	16.596	HH	46656	759774	3.29%	0.248%
289	16.618	16.596	16.628	HH	46373	859684	3.72%	0.280%
290	16.672	16.628	16.692	HH	70940	2160849	9.35%	0.704%
291	16.709	16.692	16.731	HH	63771	1342717	5.81%	0.437%
292	16.781	16.731	16.795	HH	594000	11934124	51.65%	3.888%
293	16.802	16.795	16.833	HH	376081	3871025	16.75%	1.261%
294	16.845	16.833	16.867	HH	46244	909228	3.94%	0.296%
295	16.897	16.867	16.917	HH	168089	2714993	11.75%	0.885%
296	16.929	16.917	16.945	HH	63487	960783	4.16%	0.313%
297	16.955	16.945	16.978	HH	54561	1020980	4.42%	0.333%
298	17.014	16.978	17.034	HH	64588	1810179	7.83%	0.590%
299	17.098	17.034	17.122	HH	438752	9015468	39.02%	2.937%

						rteres		
300	17.162	17.122	17.191	HH	640475	10054724	43.52%	3.276%
301	17.246	17.191	17.272	HH	280070	6497539	28.12%	2.117%
302	17.297	17.272	17.331	HH	80502	2192823	9.49%	0.714%
303	17.385	17.331	17.400	HHA	81353	2741051	11.86%	0.893%
						Sum of corrected areas:		306926021

FG011325.M Fri Jan 31 06:11:46 2025

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825MSD	SDG No.:	Q1216
Lab Sample ID:	Q1215-01MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89
Sample Wt/Vol:	30.08 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015261.D	1	01/30/25 09:15	01/30/25 18:37	PB166361

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	82600	E	207	1870	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.7		37 - 130	89%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015261.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 18:37
 Operator : YP\AJ
 Sample : Q1215-01MSD
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 JPP-29.1-012825MSD

Integration File: autoint1.e
 Quant Time: Jan 31 05:11:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
 Quant Title :
 QLast Update : Fri Jan 24 12:51:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.055	2273394	17.723 ug/ml
Target Compounds			
2) N-DECANE	4.542	1889813	14.630 ug/ml
3) N-DODECANE	6.724	1998908	14.672 ug/ml
4) N-TETRADECANE	8.562	2094909	15.306 ug/ml
5) N-HEXADECANE	10.178	2745798	19.458 ug/ml
6) N-OCTADECANE	11.628	2349523	16.017 ug/ml
7) N-EICOSANE	12.947	3280849	22.566 ug/ml
8) N-DOCOSANE	14.149	3168918	22.089 ug/ml
10) N-TETRACOSANE	15.252	11056600	77.414 ug/ml
11) N-HEXACOSANE	16.285	2769279	19.663 ug/ml
12) N-OCTACOSANE	17.246	4493749	32.091 ug/ml

(f)=RT Delta > 1/2 Window

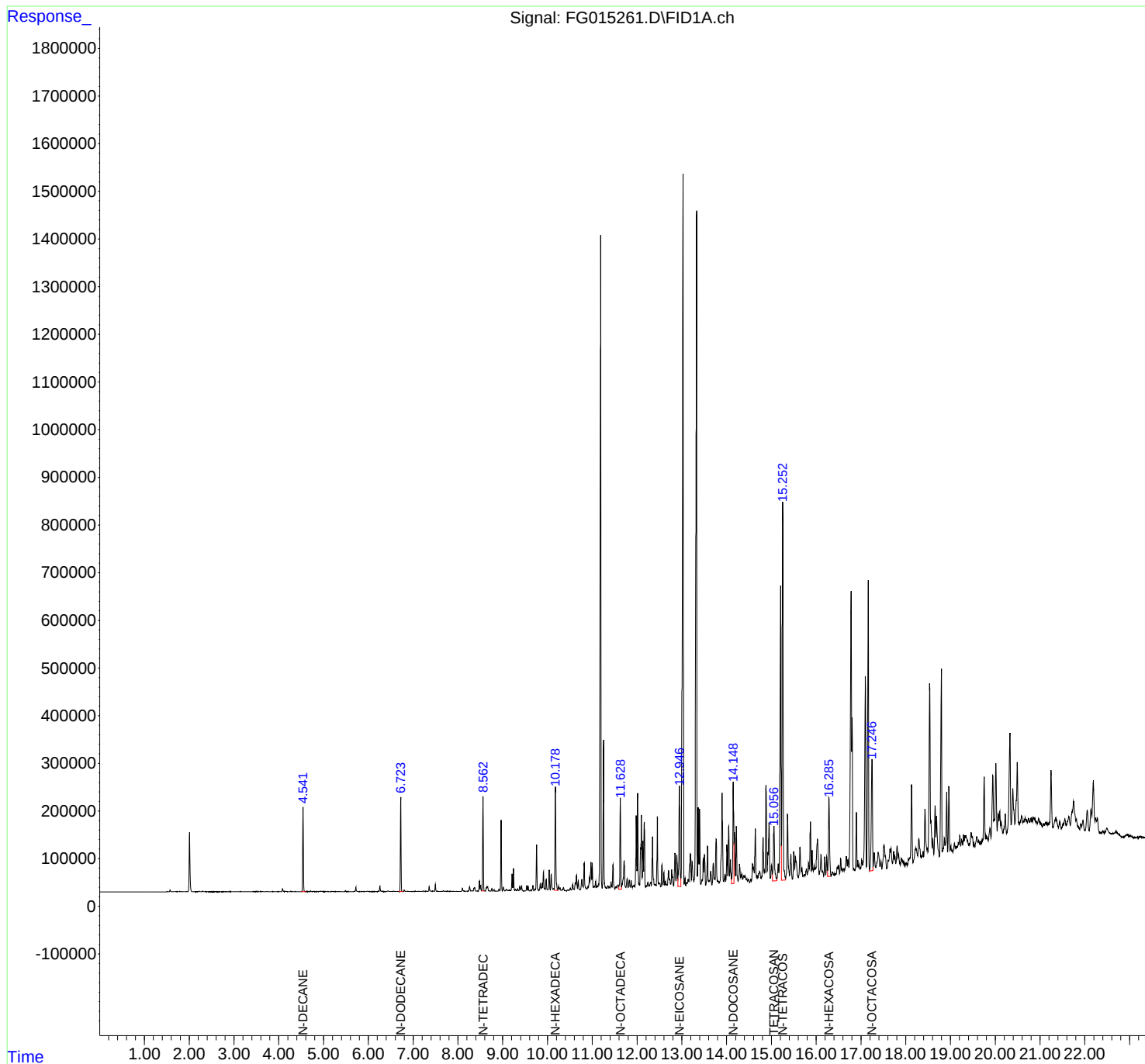
(m)=manual int.

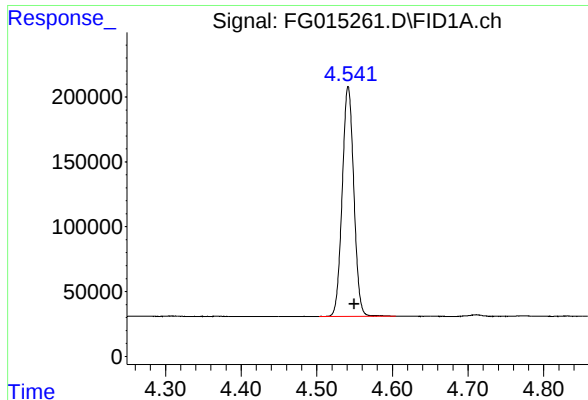
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015261.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 18:37
Operator : YP\AJ
Sample : Q1215-01MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MSD

Integration File: autoint1.e
Quant Time: Jan 31 05:11:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

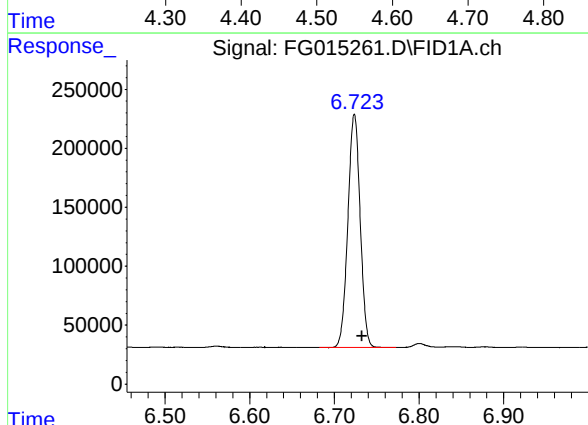




#2 N-DECANE

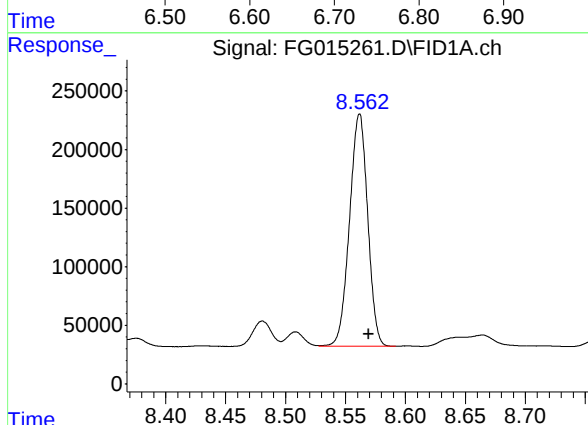
R.T.: 4.542 min
Delta R.T.: -0.008 min
Response: 1889813
Conc: 14.63 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MSD



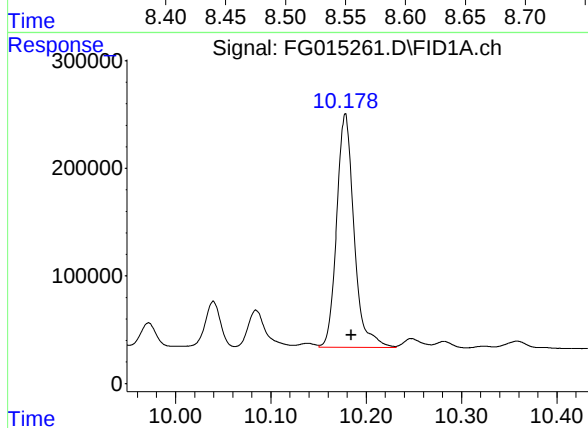
#3 N-DODECANE

R.T.: 6.724 min
Delta R.T.: -0.009 min
Response: 1998908
Conc: 14.67 ug/ml



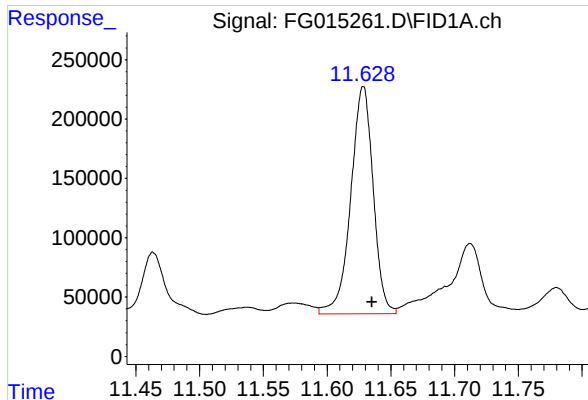
#4 N-TETRADECANE

R.T.: 8.562 min
Delta R.T.: -0.008 min
Response: 2094909
Conc: 15.31 ug/ml



#5 N-HEXADECANE

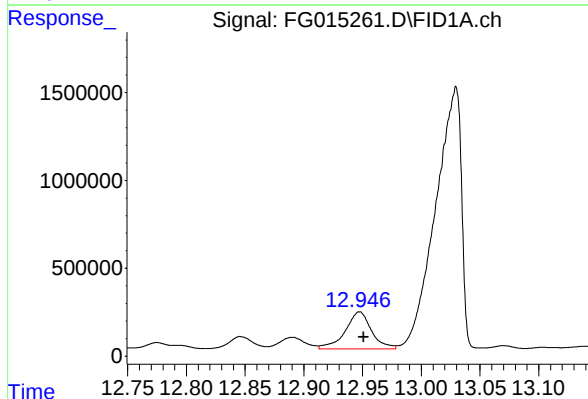
R.T.: 10.178 min
Delta R.T.: -0.006 min
Response: 2745798
Conc: 19.46 ug/ml



#6 N-OCTADECANE

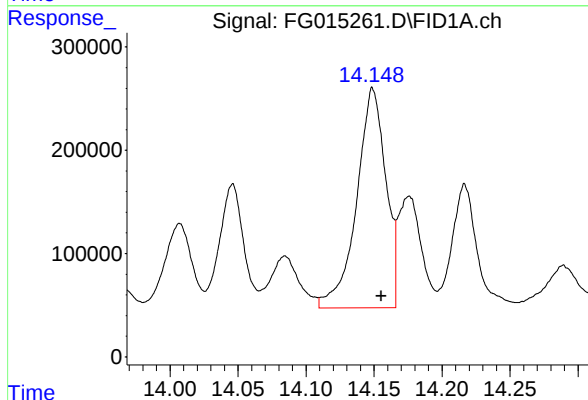
R.T.: 11.628 min
Delta R.T.: -0.007 min
Response: 2349523
Conc: 16.02 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MSD



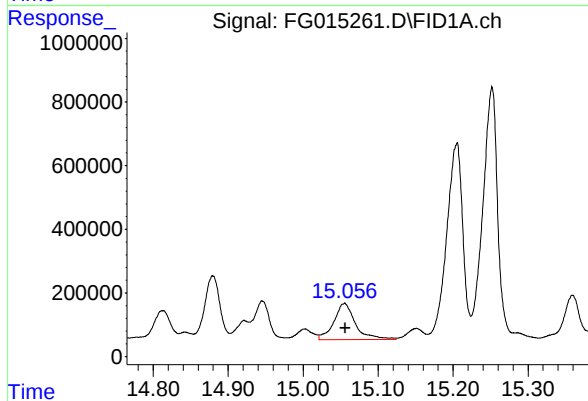
#7 N-EICOSANE

R.T.: 12.947 min
Delta R.T.: -0.003 min
Response: 3280849
Conc: 22.57 ug/ml



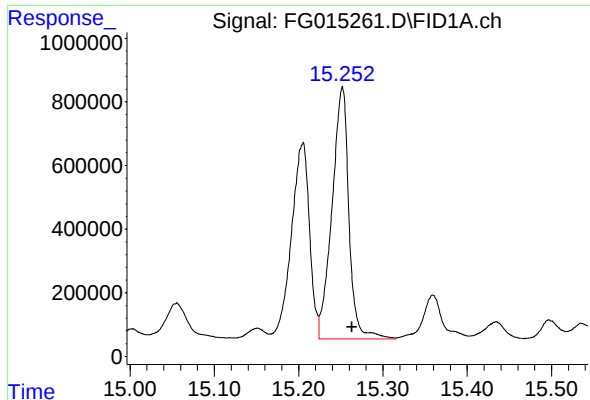
#8 N-DOCOSANE

R.T.: 14.149 min
Delta R.T.: -0.006 min
Response: 3168918
Conc: 22.09 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

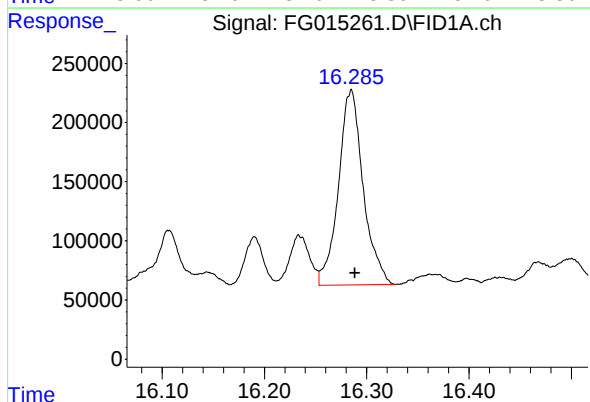
R.T.: 15.055 min
Delta R.T.: 0.000 min
Response: 2273394
Conc: 17.72 ug/ml



#10 N-TETRACOSANE

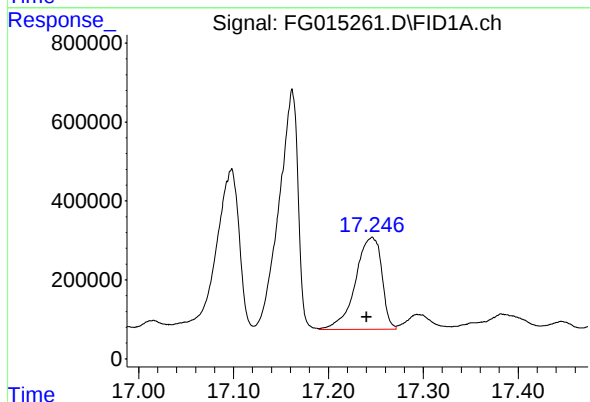
R.T.: 15.252 min
Delta R.T.: -0.011 min
Response: 11056600
Conc: 77.41 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-29.1-012825MSD



#11 N-HEXACOSANE

R.T.: 16.285 min
Delta R.T.: -0.003 min
Response: 2769279
Conc: 19.66 ug/ml



#12 N-OCTACOSANE

R.T.: 17.246 min
Delta R.T.: 0.005 min
Response: 4493749
Conc: 32.09 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015261.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 18:37
 Sample : Q1215-01MSD
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.367	4.350	4.400	BH	173	324	0.00%	0.000%
2	4.406	4.400	4.409	PH	-24	-437	-0.00%	-0.000%
3	4.414	4.409	4.419	PH	11	-395	-0.00%	-0.000%
4	4.433	4.419	4.454	PH	14	-1242	-0.01%	-0.000%
5	4.458	4.454	4.469	PH	-36	-782	-0.00%	-0.000%
6	4.486	4.469	4.496	PH	23	-397	-0.00%	-0.000%
7	4.542	4.496	4.578	PH	177400	1886532	8.08%	0.604%
8	4.582	4.578	4.611	HH	632	7663	0.03%	0.002%
9	4.615	4.611	4.636	HH	241	2313	0.01%	0.001%
10	4.649	4.636	4.683	HH	219	2538	0.01%	0.001%
11	4.711	4.683	4.734	PH	1297	15280	0.07%	0.005%
12	4.739	4.734	4.747	HH	131	751	0.00%	0.000%
13	4.773	4.747	4.789	HH	459	6381	0.03%	0.002%
14	4.793	4.789	4.813	HH	218	1923	0.01%	0.001%
15	4.832	4.813	4.844	PH	340	3403	0.01%	0.001%
16	4.850	4.844	4.872	HH	232	1972	0.01%	0.001%
17	4.880	4.872	4.886	HH	144	983	0.00%	0.000%
18	4.890	4.886	4.893	HH	160	457	0.00%	0.000%
19	4.915	4.893	4.931	HH	506	8446	0.04%	0.003%
20	4.935	4.931	4.950	HH	790	4882	0.02%	0.002%
21	4.953	4.950	4.981	HH	420	4364	0.02%	0.001%
22	4.996	4.981	5.018	HH	220	3361	0.01%	0.001%
23	5.021	5.018	5.026	HH	147	582	0.00%	0.000%
24	5.049	5.026	5.073	HH	483	7288	0.03%	0.002%
25	5.102	5.073	5.119	HH	194	1430	0.01%	0.000%
26	5.130	5.119	5.155	PH	86	263	0.00%	0.000%
27	5.182	5.155	5.197	PH	327	4597	0.02%	0.001%
28	5.203	5.197	5.228	HH	283	2918	0.01%	0.001%
29	5.230	5.228	5.235	HH	180	304	0.00%	0.000%
30	5.263	5.235	5.280	PH	291	3347	0.01%	0.001%
31	5.304	5.280	5.321	HH	471	5009	0.02%	0.002%
32	5.331	5.321	5.344	HH	167	1171	0.01%	0.000%
33	5.363	5.344	5.417	HH	338	4017	0.02%	0.001%
34	5.434	5.417	5.450	PH	54	-342	-0.00%	-0.000%
35	5.465	5.450	5.470	PH	45	-79	-0.00%	-0.000%
36	5.490	5.470	5.514	PH	1691	17594	0.08%	0.006%

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37	5.528	5.514	5.539	HH	217	1628	0.01%	0.001%
38	5.543	5.539	5.549	PH	118	197	0.00%	0.000%
39	5.559	5.549	5.574	PH	154	1098	0.00%	0.000%
40	5.577	5.574	5.603	PH	66	-371	-0.00%	-0.000%
41	5.625	5.603	5.642	PH	84	-543	-0.00%	-0.000%
42	5.650	5.642	5.657	PH	-21	-394	-0.00%	-0.000%
43	5.661	5.657	5.669	PH	-40	-509	-0.00%	-0.000%
44	5.688	5.669	5.704	PH	1056	10631	0.05%	0.003%
45	5.721	5.704	5.755	HH	8502	88510	0.38%	0.028%
46	5.761	5.755	5.788	HH	407	4690	0.02%	0.002%
47	5.797	5.788	5.827	HH	219	2709	0.01%	0.001%
48	5.877	5.827	5.904	HH	537	9735	0.04%	0.003%
49	5.949	5.904	5.963	HH	539	8481	0.04%	0.003%
50	5.978	5.963	5.993	HH	1044	12166	0.05%	0.004%
51	6.004	5.993	6.038	HH	472	7197	0.03%	0.002%
52	6.061	6.038	6.089	HH	249	5262	0.02%	0.002%
53	6.102	6.089	6.118	HH	345	3429	0.01%	0.001%
54	6.128	6.118	6.143	HH	225	1967	0.01%	0.001%
55	6.161	6.143	6.189	HH	407	5503	0.02%	0.002%
56	6.223	6.189	6.237	HH	1131	13686	0.06%	0.004%
57	6.258	6.237	6.296	HH	11987	133058	0.57%	0.043%
58	6.307	6.296	6.337	HH	883	13004	0.06%	0.004%
59	6.366	6.337	6.384	HH	430	7251	0.03%	0.002%
60	6.410	6.384	6.421	HH	583	9727	0.04%	0.003%
61	6.438	6.421	6.478	HH	1606	26811	0.11%	0.009%
62	6.491	6.478	6.508	HH	565	8213	0.04%	0.003%
63	6.515	6.508	6.536	HH	463	5861	0.03%	0.002%
64	6.561	6.536	6.589	HH	1375	20155	0.09%	0.006%
65	6.613	6.589	6.623	HH	500	7466	0.03%	0.002%
66	6.637	6.623	6.662	HH	431	7854	0.03%	0.003%
67	6.678	6.662	6.694	HH	294	4535	0.02%	0.001%
68	6.724	6.694	6.777	HH	198118	2010022	8.61%	0.644%
69	6.801	6.777	6.824	HH	3635	42711	0.18%	0.014%
70	6.840	6.824	6.862	HH	905	15524	0.07%	0.005%
71	6.875	6.862	6.905	HH	810	12232	0.05%	0.004%
72	6.918	6.905	6.945	HH	516	8739	0.04%	0.003%
73	6.949	6.945	6.966	HH	327	3338	0.01%	0.001%
74	6.973	6.966	6.983	HH	330	2709	0.01%	0.001%
75	7.006	6.983	7.029	HH	886	12311	0.05%	0.004%
76	7.049	7.029	7.081	HH	965	16741	0.07%	0.005%
77	7.091	7.081	7.099	HH	362	3332	0.01%	0.001%
78	7.129	7.099	7.153	HH	882	15927	0.07%	0.005%
79	7.160	7.153	7.196	HH	438	8164	0.03%	0.003%
80	7.217	7.196	7.243	HH	1362	22245	0.10%	0.007%
81	7.260	7.243	7.280	HH	1140	18946	0.08%	0.006%
82	7.297	7.280	7.325	HH	1102	19975	0.09%	0.006%
83	7.359	7.325	7.383	HH	10533	116620	0.50%	0.037%
84	7.397	7.383	7.430	HH	1414	28201	0.12%	0.009%
85	7.449	7.430	7.475	HH	1564	25081	0.11%	0.008%
86	7.497	7.475	7.529	HH	14793	156575	0.67%	0.050%
87	7.544	7.529	7.603	HH	696	23143	0.10%	0.007%
88	7.620	7.603	7.640	HH	688	12292	0.05%	0.004%
89	7.675	7.640	7.713	HH	2145	40449	0.17%	0.013%

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90	7.739	7.713	7.777	HH	875	25677	0.11%	0.008%
91	7.797	7.777	7.801	HH	751	8478	0.04%	0.003%
92	7.821	7.801	7.837	HH	890	16217	0.07%	0.005%
93	7.851	7.837	7.879	HH	1003	17269	0.07%	0.006%
94	7.900	7.879	7.921	HH	832	14600	0.06%	0.005%
95	7.933	7.921	7.939	HH	426	4203	0.02%	0.001%
96	7.963	7.939	7.977	HH	819	13272	0.06%	0.004%
97	7.990	7.977	7.998	HH	535	5924	0.03%	0.002%
98	8.013	7.998	8.033	HH	668	12000	0.05%	0.004%
99	8.039	8.033	8.044	HH	462	2797	0.01%	0.001%
100	8.049	8.044	8.057	HH	483	3508	0.02%	0.001%
101	8.067	8.057	8.073	HH	562	4515	0.02%	0.001%
102	8.103	8.073	8.150	HH	7073	111075	0.48%	0.036%
103	8.167	8.150	8.192	HH	999	22215	0.10%	0.007%
104	8.201	8.192	8.223	HH	1042	15975	0.07%	0.005%
105	8.261	8.223	8.294	HH	10943	163285	0.70%	0.052%
106	8.315	8.294	8.339	HH	2453	45266	0.19%	0.014%
107	8.360	8.339	8.367	HH	7868	79181	0.34%	0.025%
108	8.375	8.367	8.411	HH	8137	100329	0.43%	0.032%
109	8.432	8.411	8.453	HH	1582	32619	0.14%	0.010%
110	8.481	8.453	8.496	HH	22875	264554	1.13%	0.085%
111	8.508	8.496	8.528	HH	13529	145695	0.62%	0.047%
112	8.562	8.528	8.592	HH	199784	2144442	9.19%	0.687%
113	8.603	8.592	8.614	HH	1539	18704	0.08%	0.006%
114	8.646	8.614	8.649	HH	8957	118417	0.51%	0.038%
115	8.664	8.649	8.710	HH	10894	194781	0.83%	0.062%
116	8.715	8.710	8.739	HH	1582	22997	0.10%	0.007%
117	8.758	8.739	8.780	HH	6709	80414	0.34%	0.026%
118	8.807	8.780	8.826	HH	4355	59648	0.26%	0.019%
119	8.838	8.826	8.854	HH	1330	19602	0.08%	0.006%
120	8.869	8.854	8.884	HH	1179	18471	0.08%	0.006%
121	8.892	8.884	8.896	HH	989	7273	0.03%	0.002%
122	8.917	8.896	8.940	HH	4940	72275	0.31%	0.023%
123	8.966	8.940	8.994	HH	149798	1504415	6.45%	0.482%
124	9.015	8.994	9.056	HH	9337	159062	0.68%	0.051%
125	9.084	9.056	9.100	HH	5151	89426	0.38%	0.029%
126	9.109	9.100	9.123	HH	3069	37724	0.16%	0.012%
127	9.135	9.123	9.146	HH	2928	34734	0.15%	0.011%
128	9.161	9.146	9.186	HH	3085	63797	0.27%	0.020%
129	9.211	9.186	9.226	HH	37404	425476	1.82%	0.136%
130	9.242	9.226	9.268	HH	48843	524573	2.25%	0.168%
131	9.283	9.268	9.316	HH	5132	90456	0.39%	0.029%
132	9.336	9.316	9.363	HH	6064	93284	0.40%	0.030%
133	9.383	9.363	9.404	HH	10513	149895	0.64%	0.048%
134	9.423	9.404	9.469	HH	12284	188198	0.81%	0.060%
135	9.487	9.469	9.514	HH	1623	38041	0.16%	0.012%
136	9.540	9.514	9.556	HH	12348	154030	0.66%	0.049%
137	9.571	9.556	9.601	HH	10567	133350	0.57%	0.043%
138	9.623	9.601	9.640	HH	4192	60975	0.26%	0.020%
139	9.677	9.640	9.699	HH	13350	207429	0.89%	0.066%
140	9.718	9.699	9.731	HH	5021	70809	0.30%	0.023%
141	9.759	9.731	9.813	HH	98977	1153625	4.94%	0.369%

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142	9.840	9.813	9.855	HH	16442	221362	0.95%	0.071%
143	9.882	9.855	9.894	HH	17476	251516	1.08%	0.081%
144	9.912	9.894	9.933	HH	41861	529355	2.27%	0.169%
145	9.941	9.933	9.952	HH	6736	67508	0.29%	0.022%
146	9.972	9.952	10.004	HH	25794	360533	1.54%	0.115%
147	10.040	10.004	10.062	HH	45853	579766	2.48%	0.186%
148	10.084	10.062	10.124	HH	37502	554282	2.37%	0.177%
149	10.138	10.124	10.151	HH	6575	90768	0.39%	0.029%
150	10.178	10.151	10.230	HH	220057	2885197	12.36%	0.924%
151	10.247	10.230	10.268	HH	10892	168611	0.72%	0.054%
152	10.282	10.268	10.306	HH	8256	122982	0.53%	0.039%
153	10.324	10.306	10.334	HH	3872	55909	0.24%	0.018%
154	10.358	10.334	10.428	HH	8616	213078	0.91%	0.068%
155	10.453	10.428	10.469	HH	3703	68449	0.29%	0.022%
156	10.485	10.469	10.494	HH	3244	43530	0.19%	0.014%
157	10.511	10.494	10.528	HH	7345	106224	0.46%	0.034%
158	10.537	10.528	10.544	HH	3740	33017	0.14%	0.011%
159	10.563	10.544	10.597	HH	14868	254336	1.09%	0.081%
160	10.624	10.597	10.633	HH	18978	260685	1.12%	0.083%
161	10.649	10.633	10.672	HH	34509	497172	2.13%	0.159%
162	10.689	10.672	10.727	HH	23060	349918	1.50%	0.112%
163	10.767	10.727	10.801	HH	25880	553635	2.37%	0.177%
164	10.820	10.801	10.879	HH	60066	930637	3.99%	0.298%
165	10.905	10.879	10.914	HH	11360	175193	0.75%	0.056%
166	10.940	10.914	10.952	HH	30087	449521	1.93%	0.144%
167	10.973	10.952	10.989	HH	61768	935312	4.01%	0.299%
168	11.002	10.989	11.022	HH	60022	679726	2.91%	0.218%
169	11.048	11.022	11.060	HH	11936	235878	1.01%	0.076%
170	11.078	11.060	11.096	HH	21313	321901	1.38%	0.103%
171	11.111	11.096	11.125	HH	12177	188716	0.81%	0.060%
172	11.143	11.125	11.149	HH	16210	190482	0.82%	0.061%
173	11.190	11.149	11.226	HH	1372779	17340471	74.30%	5.552%
174	11.253	11.226	11.293	HH	316836	3446269	14.77%	1.103%
175	11.302	11.293	11.319	HH	9757	132065	0.57%	0.042%
176	11.351	11.319	11.373	HH	12460	295145	1.26%	0.094%
177	11.388	11.373	11.402	HH	10875	159670	0.68%	0.051%
178	11.420	11.402	11.443	HH	20147	334869	1.43%	0.107%
179	11.463	11.443	11.505	HH	56985	853102	3.66%	0.273%
180	11.537	11.505	11.554	HH	10676	248675	1.07%	0.080%
181	11.574	11.554	11.594	HH	14075	282468	1.21%	0.090%
182	11.628	11.594	11.654	HH	196635	2530648	10.84%	0.810%
183	11.712	11.654	11.750	HH	64353	1459038	6.25%	0.467%
184	11.780	11.750	11.802	HH	27245	504956	2.16%	0.162%
185	11.827	11.802	11.849	HH	24143	440926	1.89%	0.141%
186	11.870	11.849	11.893	HH	23590	393901	1.69%	0.126%
187	11.909	11.893	11.920	HH	11920	178870	0.77%	0.057%
188	11.933	11.920	11.953	HH	14090	231376	0.99%	0.074%
189	11.982	11.953	11.997	HH	159713	1927290	8.26%	0.617%
190	12.014	11.997	12.035	HH	206783	2314885	9.92%	0.741%
191	12.045	12.035	12.057	HH	17987	207574	0.89%	0.066%
192	12.098	12.057	12.115	HH	160847	2763093	11.84%	0.885%
193	12.131	12.115	12.145	HH	105103	1258077	5.39%	0.403%
194	12.162	12.145	12.192	HH	145946	1857101	7.96%	0.595%

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195	12.206	12.192	12.219	HH	13046	186801	0.80%	0.060%
196	12.244	12.219	12.263	HH	19695	405647	1.74%	0.130%
197	12.303	12.263	12.320	HH	19733	510397	2.19%	0.163%
198	12.346	12.320	12.389	HH	114726	1813921	7.77%	0.581%
199	12.396	12.389	12.406	HH	14850	152993	0.66%	0.049%
200	12.416	12.406	12.429	HH	15268	190921	0.82%	0.061%
201	12.454	12.429	12.479	HH	156742	1980713	8.49%	0.634%
202	12.484	12.479	12.503	HH	17533	240510	1.03%	0.077%
203	12.510	12.503	12.530	HH	17063	245840	1.05%	0.079%
204	12.556	12.530	12.577	HH	56129	808285	3.46%	0.259%
205	12.601	12.577	12.619	HH	39984	626309	2.68%	0.201%
206	12.636	12.619	12.669	HH	21556	501597	2.15%	0.161%
207	12.704	12.669	12.722	HH	44224	859435	3.68%	0.275%
208	12.729	12.722	12.749	HH	26540	356226	1.53%	0.114%
209	12.775	12.749	12.815	HH	46252	1070660	4.59%	0.343%
210	12.846	12.815	12.869	HH	80677	1324219	5.67%	0.424%
211	12.891	12.869	12.913	HH	76795	1285684	5.51%	0.412%
212	12.947	12.913	12.978	HH	220725	3706453	15.88%	1.187%
213	13.029	12.978	13.051	HH	1505902	23339030	100.00%	7.472%
214	13.070	13.051	13.089	HH	29245	464892	1.99%	0.149%
215	13.104	13.089	13.120	HH	19229	324879	1.39%	0.104%
216	13.141	13.120	13.154	HH	25882	439507	1.88%	0.141%
217	13.192	13.154	13.211	HH	78737	1710867	7.33%	0.548%
218	13.229	13.211	13.266	HH	62071	1255737	5.38%	0.402%
219	13.330	13.266	13.347	HH	1423264	21917130	93.91%	7.017%
220	13.366	13.347	13.380	HH	175541	2135307	9.15%	0.684%
221	13.395	13.380	13.425	HH	173551	2145605	9.19%	0.687%
222	13.449	13.425	13.459	HH	25001	434666	1.86%	0.139%
223	13.479	13.459	13.492	HH	68724	918894	3.94%	0.294%
224	13.507	13.492	13.532	HH	78123	1100959	4.72%	0.352%
225	13.573	13.532	13.597	HH	95362	1621868	6.95%	0.519%
226	13.608	13.597	13.620	HH	23649	310903	1.33%	0.100%
227	13.646	13.620	13.671	HH	42261	867050	3.72%	0.278%
228	13.703	13.671	13.722	HH	59434	1067051	4.57%	0.342%
229	13.730	13.722	13.742	HH	28510	322163	1.38%	0.103%
230	13.767	13.742	13.795	HH	110026	1910015	8.18%	0.611%
231	13.804	13.795	13.831	HH	22474	449035	1.92%	0.144%
232	13.899	13.831	13.934	HH	206766	4363573	18.70%	1.397%
233	13.964	13.934	13.981	HH	36207	764789	3.28%	0.245%
234	14.007	13.981	14.026	HH	98575	1575798	6.75%	0.504%
235	14.046	14.026	14.066	HH	136962	1874954	8.03%	0.600%
236	14.085	14.066	14.109	HH	66992	1167929	5.00%	0.374%
237	14.149	14.109	14.166	HH	229979	3735624	16.01%	1.196%
238	14.176	14.166	14.197	HH	124990	1586212	6.80%	0.508%
239	14.217	14.197	14.256	HH	136678	2140487	9.17%	0.685%
240	14.289	14.256	14.314	HH	57895	1314568	5.63%	0.421%
241	14.335	14.314	14.361	HH	37063	897280	3.84%	0.287%
242	14.378	14.361	14.390	HH	33478	532318	2.28%	0.170%
243	14.406	14.390	14.440	HH	34053	901425	3.86%	0.289%
244	14.451	14.440	14.467	HH	26476	412880	1.77%	0.132%
245	14.482	14.467	14.514	HH	26758	655515	2.81%	0.210%
246	14.538	14.514	14.554	HH	26295	537045	2.30%	0.172%

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247	14.578	14.554	14.598	HH	58257	1173299	5.03%	0.376%
248	14.601	14.598	14.618	HH	48504	541431	2.32%	0.173%
249	14.639	14.618	14.669	HH	132067	2132427	9.14%	0.683%
250	14.684	14.669	14.699	HH	34223	569710	2.44%	0.182%
251	14.737	14.699	14.769	HH	43181	1494879	6.41%	0.479%
252	14.813	14.769	14.834	HH	113411	2375752	10.18%	0.761%
253	14.842	14.834	14.854	HH	46132	500758	2.15%	0.160%
254	14.880	14.854	14.903	HH	221830	3494138	14.97%	1.119%
255	14.921	14.903	14.928	HH	82946	998601	4.28%	0.320%
256	14.946	14.928	14.977	HH	143807	2364127	10.13%	0.757%
257	15.002	14.977	15.021	HH	55787	1107990	4.75%	0.355%
258	15.055	15.021	15.124	HH	137398	3669654	15.72%	1.175%
259	15.151	15.124	15.167	HH	58627	1118475	4.79%	0.358%
260	15.205	15.167	15.224	HH	640699	10021806	42.94%	3.208%
261	15.252	15.224	15.315	HH	816520	12363472	52.97%	3.958%
262	15.359	15.315	15.402	HH	162377	3533004	15.14%	1.131%
263	15.434	15.402	15.467	HH	78236	1883575	8.07%	0.603%
264	15.497	15.467	15.518	HH	84062	1609058	6.89%	0.515%
265	15.535	15.518	15.599	HH	73035	2495218	10.69%	0.799%
266	15.637	15.599	15.665	HH	92922	2194643	9.40%	0.703%
267	15.680	15.665	15.701	HH	49594	904878	3.88%	0.290%
268	15.730	15.701	15.749	HH	35774	977634	4.19%	0.313%
269	15.780	15.749	15.798	HH	47980	1185001	5.08%	0.379%
270	15.829	15.798	15.845	HH	60575	1375511	5.89%	0.440%
271	15.871	15.845	15.891	HH	146342	2462562	10.55%	0.788%
272	15.908	15.891	15.941	HH	86279	1771274	7.59%	0.567%
273	15.953	15.941	15.968	HH	55670	827865	3.55%	0.265%
274	15.979	15.968	15.985	HH	48098	486853	2.09%	0.156%
275	16.027	15.985	16.067	HH	109791	3562087	15.26%	1.140%
276	16.107	16.067	16.133	HH	78079	2050771	8.79%	0.657%
277	16.144	16.133	16.167	HH	42862	790376	3.39%	0.253%
278	16.190	16.167	16.212	HH	72760	1359254	5.82%	0.435%
279	16.234	16.212	16.253	HH	73920	1369111	5.87%	0.438%
280	16.285	16.253	16.329	HH	197562	4220552	18.08%	1.351%
281	16.362	16.329	16.388	HH	40921	1310191	5.61%	0.419%
282	16.398	16.388	16.412	HH	37456	528457	2.26%	0.169%
283	16.431	16.412	16.445	HH	38337	719421	3.08%	0.230%
284	16.468	16.445	16.481	HH	51416	982445	4.21%	0.315%
285	16.500	16.481	16.522	HH	54511	1195559	5.12%	0.383%
286	16.546	16.522	16.567	HH	70067	1433700	6.14%	0.459%
287	16.577	16.567	16.597	HH	48818	811660	3.48%	0.260%
288	16.618	16.597	16.633	HH	48884	1006799	4.31%	0.322%
289	16.673	16.633	16.691	HH	73904	2075032	8.89%	0.664%
290	16.709	16.691	16.732	HH	66961	1443519	6.19%	0.462%
291	16.779	16.732	16.794	HH	630063	11969052	51.28%	3.832%
292	16.802	16.794	16.833	HH	363882	3998775	17.13%	1.280%
293	16.841	16.833	16.864	HH	47615	856217	3.67%	0.274%
294	16.896	16.864	16.916	HH	166376	2857210	12.24%	0.915%
295	16.928	16.916	16.945	HH	65633	1001456	4.29%	0.321%
296	16.955	16.945	16.977	HH	56600	1012766	4.34%	0.324%
297	16.988	16.977	16.996	HH	50958	552234	2.37%	0.177%
298	17.016	16.996	17.036	HH	66845	1412859	6.05%	0.452%
299	17.098	17.036	17.122	HH	448264	9134213	39.14%	2.924%

						rteres		
300	17.162	17.122	17.190	HH	649647	10239143	43.87%	3.278%
301	17.246	17.190	17.272	HH	276982	6636314	28.43%	2.125%
302	17.294	17.272	17.331	HH	81803	2273743	9.74%	0.728%
303	17.383	17.331	17.401	HHA	82871	2845856	12.19%	0.911%
					Sum of corrected areas:	312356280		

FG011325.M Fri Jan 31 06:12:15 2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
50 PPM TRPH STD		FG015247.D	FG013025	N-OCTACOSANE	Ankita	1/31/2025 11:08:12 AM	Peak Integrated by Software incorrectly
Q1215-01		FG015251.D	FG013025	TETRACOSANE-d50 (SURROGA	Ankita	1/31/2025 11:08:13 AM	Peak Integrated by Software incorrectly
.BLK		FG015258.D	FG013025	TETRACOSANE-d50 (SURROGA	Ankita	1/31/2025 11:08:14 AM	Peak Integrated by Software incorrectly
Q1216-09		FG015266.D	FG013025	TETRACOSANE-d50 (SURROGA	Ankita	1/31/2025 11:08:16 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG015270.D	FG013025	N-OCTACOSANE	Ankita	1/31/2025 11:08:18 AM	Peak Integrated by Software incorrectly

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG011325

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

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

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013025

Review By	yogesh	Review On	1/30/2025 11:31:42 AM
Supervise By	Ankita	Supervise On	1/31/2025 11:08:29 AM
SubDirectory	FG013025	HP Acquire Method	HP Processing Method FG011325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015245.D	30 Jan 2025 08:53	YP\AJ	Ok
2	I.BLK	FG015246.D	30 Jan 2025 10:25	YP\AJ	Ok
3	50 PPM TRPH STD	FG015247.D	30 Jan 2025 10:54	YP\AJ	Ok,M
4	RT MARKER	FG015248.D	30 Jan 2025 11:50	YP\AJ	Ok
5	PB166361BS	FG015249.D	30 Jan 2025 12:28	YP\AJ	Ok
6	PB166361BL	FG015250.D	30 Jan 2025 12:56	YP\AJ	Ok
7	Q1215-01	FG015251.D	30 Jan 2025 13:25	YP\AJ	Dilution
8	Q1215-05	FG015252.D	30 Jan 2025 13:53	YP\AJ	Dilution
9	Q1216-01	FG015253.D	30 Jan 2025 14:22	YP\AJ	Dilution
10	Q1216-05	FG015254.D	30 Jan 2025 14:50	YP\AJ	Dilution
11	Q1216-09	FG015255.D	30 Jan 2025 15:19	YP\AJ	Dilution
12	Q1216-13	FG015256.D	30 Jan 2025 15:47	YP\AJ	Dilution
13	Q1216-17	FG015257.D	30 Jan 2025 16:15	YP\AJ	Dilution
14	I.BLK	FG015258.D	30 Jan 2025 16:44	YP\AJ	Ok,M
15	50 PPM TRPH STD	FG015259.D	30 Jan 2025 17:12	YP\AJ	Ok
16	Q1215-01MS	FG015260.D	30 Jan 2025 18:09	YP\AJ	Ok
17	Q1215-01MSD	FG015261.D	30 Jan 2025 18:37	YP\AJ	Ok
18	Q1215-01	FG015262.D	30 Jan 2025 19:06	YP\AJ	Ok
19	Q1215-05	FG015263.D	30 Jan 2025 19:34	YP\AJ	Ok
20	Q1216-01	FG015264.D	30 Jan 2025 20:02	YP\AJ	Ok
21	Q1216-05	FG015265.D	30 Jan 2025 20:31	YP\AJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013025

Review By	yogesh	Review On	1/30/2025 11:31:42 AM
Supervise By	Ankita	Supervise On	1/31/2025 11:08:29 AM
SubDirectory	FG013025	HP Acquire Method	HP Processing Method FG011325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

22	Q1216-09	FG015266.D	30 Jan 2025 21:00	YP\AJ	Ok,M
23	Q1216-13	FG015267.D	30 Jan 2025 21:28	YP\AJ	Ok
24	Q1216-17	FG015268.D	30 Jan 2025 21:56	YP\AJ	Ok
25	I.BLK	FG015269.D	30 Jan 2025 22:25	YP\AJ	Ok
26	50 PPM TRPH STD	FG015270.D	30 Jan 2025 23:22	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG011325

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

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

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

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013025

Review By	yogesh	Review On	1/30/2025 11:31:42 AM
Supervise By	Ankita	Supervise On	1/31/2025 11:08:29 AM
SubDirectory	FG013025	HP Acquire Method	HP Processing Method FG011325

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015245.D	30 Jan 2025 08:53		YP\AJ	Ok
2	I.BLK		FG015246.D	30 Jan 2025 10:25		YP\AJ	Ok
3	50 PPM TRPH STD		FG015247.D	30 Jan 2025 10:54		YP\AJ	Ok,M
4	RT MARKER		FG015248.D	30 Jan 2025 11:50		YP\AJ	Ok
5	PB166361BS		FG015249.D	30 Jan 2025 12:28		YP\AJ	Ok
6	PB166361BL		FG015250.D	30 Jan 2025 12:56		YP\AJ	Ok
7	Q1215-01		FG015251.D	30 Jan 2025 13:25	need 10x dilution	YP\AJ	Dilution
8	Q1215-05		FG015252.D	30 Jan 2025 13:53	need 10x dilution	YP\AJ	Dilution
9	Q1216-01		FG015253.D	30 Jan 2025 14:22	need 10x dilution	YP\AJ	Dilution
10	Q1216-05		FG015254.D	30 Jan 2025 14:50	need 10x dilution	YP\AJ	Dilution
11	Q1216-09		FG015255.D	30 Jan 2025 15:19	need 10x dilution	YP\AJ	Dilution
12	Q1216-13		FG015256.D	30 Jan 2025 15:47	need 10x dilution	YP\AJ	Dilution
13	Q1216-17		FG015257.D	30 Jan 2025 16:15	need 10x dilution	YP\AJ	Dilution
14	I.BLK		FG015258.D	30 Jan 2025 16:44		YP\AJ	Ok,M
15	50 PPM TRPH STD		FG015259.D	30 Jan 2025 17:12		YP\AJ	Ok
16	Q1215-01MS		FG015260.D	30 Jan 2025 18:09		YP\AJ	Ok
17	Q1215-01MSD		FG015261.D	30 Jan 2025 18:37		YP\AJ	Ok
18	Q1215-01		FG015262.D	30 Jan 2025 19:06		YP\AJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG013025

Review By	yogesh	Review On	1/30/2025 11:31:42 AM
Supervise By	Ankita	Supervise On	1/31/2025 11:08:29 AM
SubDirectory	FG013025	HP Acquire Method	HP Processing Method FG011325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM	PP23962,PP23967		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1215-05		FG015263.D	30 Jan 2025 19:34		YP\AJ	Ok
20	Q1216-01		FG015264.D	30 Jan 2025 20:02		YP\AJ	Ok
21	Q1216-05		FG015265.D	30 Jan 2025 20:31		YP\AJ	Ok
22	Q1216-09		FG015266.D	30 Jan 2025 21:00		YP\AJ	Ok,M
23	Q1216-13		FG015267.D	30 Jan 2025 21:28		YP\AJ	Ok
24	Q1216-17		FG015268.D	30 Jan 2025 21:56		YP\AJ	Ok
25	I.BLK		FG015269.D	30 Jan 2025 22:25		YP\AJ	Ok
26	50 PPM TRPH STD		FG015270.D	30 Jan 2025 23:22		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

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

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

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

QC:LB134481

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



PERCENT SOLID

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

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

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

QC:LB134481

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

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

WORKLIST(Hardcopy Internal Chain)

13448

WorkList Name : %1-013025

WorkList ID : 187270

Department : Wet-Chemistry

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

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

Date/Time 01/30/25 15:20

Raw Sample Received by: SWC

Raw Sample Relinquished by: CSM

Date/Time 01/30/25

Raw Sample Received by: CFS

Raw Sample Relinquished by: SWC

WORKLIST(Hardcopy Internal Chain)

134481

WorkList Name : %1-013025

WorkList ID : 187270

Department : Wet-Chemistry

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

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

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

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

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	01/30/2025
Matrix :	Solid	Extraction Start Time :	09:15
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Extraction End Date :	01/30/2025
Balance ID:	EX-SC-2	Filter By:	RJ
pH Strip Lot#:	N/A	Extraction End Time :	12:15
		Concentration By:	EH
		Supervisor By :	rajesh
Extraction Method:	☐ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

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

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2578
Baked Na2SO4	N/A	EP2580
Sand	N/A	E2865
Methylene Chloride	N/A	E3871
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/30/25	RP (Ed Vas)	T-P-P-881 PCB.
12:20	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 01/30/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166361BL	PB166361BL	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			U5-1
PB166361BS	PB166361BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
Q1215-01	JPP-29.1-012825	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	C		3
Q1215-01MS	JPP-29.1-012825MS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	C		4
Q1215-01MS D	JPP-29.1-012825MSD	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	C		5
Q1215-05	JPP-29.2-012825	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	C		6
Q1216-01	JPP-18.1-012825	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	C		U4-1
Q1216-05	JPP-21.1-012825	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	C		2
Q1216-09	JPP-21.2-012825	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	C		3
Q1216-13	JPP-26.1-012825	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	C		4
Q1216-17	JPP-26.2-012825	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	C		5

* Extracts relinquished on the same date as received.

2 100

166361
8.1.15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1215

WorkList ID : 187280

Department : Extraction

Date : 01-30-2025 08:19:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1215-01	JPP-29.1-012825	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/28/2025	8015D
Q1215-05	JPP-29.2-012825	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/28/2025	8015D
Q1216-01	JPP-18.1-012825	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/28/2025	8015D
Q1216-05	JPP-21.1-012825	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/28/2025	8015D
Q1216-09	JPP-21.2-012825	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/28/2025	8015D
Q1216-13	JPP-26.1-012825	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/28/2025	8015D
Q1216-17	JPP-26.2-012825	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/28/2025	8015D

Date/Time 01/30/25 9:10

Raw Sample Received by: RJ (Ext Lab)

Raw Sample Relinquished by: JD CSM

Date/Time 01/30/25 9:45

Raw Sample Received by: JD CSM

Raw Sample Relinquished by: RJ (Ext Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1216
Test : Diesel Range Organics
Prepbatch ID : PB166361,
Sequence ID/Qc Batch ID: FG013025,

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

Chemical ID :
E2865,E3551,E3822,E3828,E3846,E3848,E3871,P11958,P11959,P13104,P13109,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

Extractions STANDARD PREPARATION LOG

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

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

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

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

FROM 1.00000ml of P11958 + 1.00000ml of P11959 + 1.00000ml of P13213 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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



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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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

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

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

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

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

Sand
Purified
Washed and Ignited



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

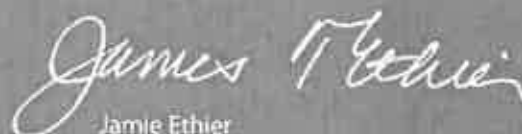
Certificate of Analysis

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

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

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

E 2865


Jamie Ethier
Vice President Global Quality

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

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



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MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

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

 **avantors**



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

Revision No.: 0

Certificate of Analysis

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

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

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

E 3822



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

 **avantor**™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors™**



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

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

Rec'd by RP On 12/13/24

E 3846



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01 %

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

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

E 3848

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

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

12/27/24

 **avantors**



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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01%

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

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

E 3871



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266 Lot No.: A0186840
Description : Florida TRPH Standard
Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2029 Storage: 25°C nominal
Handling: Sonicate prior to use. Ship: Ambient

P11948
L } 7.8
P11962 } 07/11/16

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	n-Octane (C8) CAS # 111-65-9 (Lot SHBN3807) Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL Gravimetric +/- 12.5465 µg/mL Unstressed +/- 15.0390 µg/mL Stressed
2	n-Decane (C10) CAS # 124-18-5 (Lot SHBN8619) Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL Gravimetric +/- 12.4968 µg/mL Unstressed +/- 14.9795 µg/mL Stressed
3	n-Dodecane (C12) CAS # 112-40-3 (Lot SHBN7174) Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL Gravimetric +/- 12.5092 µg/mL Unstressed +/- 14.9944 µg/mL Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 (Lot STBK2282) Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL Gravimetric +/- 12.5465 µg/mL Unstressed +/- 15.0390 µg/mL Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 (Lot SHBM4146) Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL Gravimetric +/- 12.5390 µg/mL Unstressed +/- 15.0301 µg/mL Stressed
6	n-Octadecane (C18) CAS # 593-45-3 (Lot VZKOJ) Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL Gravimetric +/- 12.5316 µg/mL Unstressed +/- 15.0212 µg/mL Stressed
7	n-Eicosane (C20) CAS # 112-95-8 (Lot MKCF7888) Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL Gravimetric +/- 12.5092 µg/mL Unstressed +/- 14.9944 µg/mL Stressed

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: Hexane CAS # 110-54-3 Purity 99%						

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

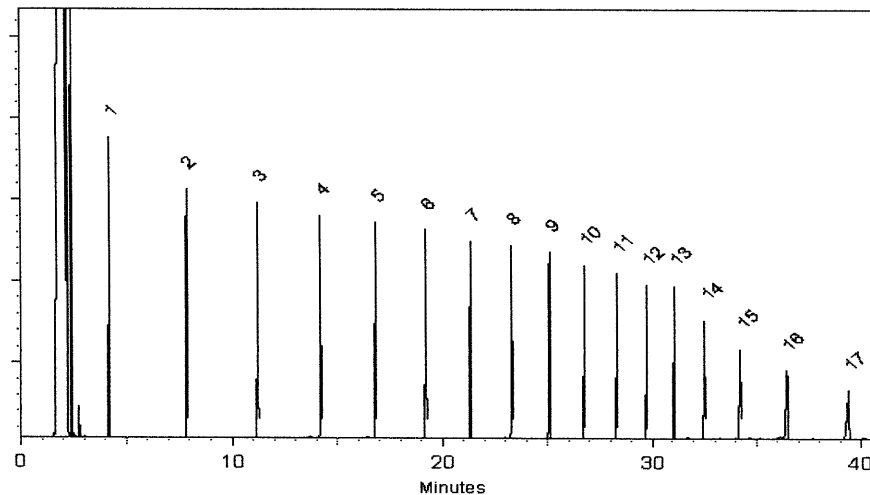
250°C

Det. Temp:

330°C

Det. Type:

FID



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

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266 Lot No.: A0186840
Description : Florida TRPH Standard
Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2029 Storage: 25°C nominal
Handling: Sonicate prior to use. Ship: Ambient

P11948
L } 7.8
P11962 } 07/11/16

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	n-Octane (C8) CAS # 111-65-9 (Lot SHBN3807) Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL Gravimetric +/- 12.5465 µg/mL Unstressed +/- 15.0390 µg/mL Stressed
2	n-Decane (C10) CAS # 124-18-5 (Lot SHBN8619) Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL Gravimetric +/- 12.4968 µg/mL Unstressed +/- 14.9795 µg/mL Stressed
3	n-Dodecane (C12) CAS # 112-40-3 (Lot SHBN7174) Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL Gravimetric +/- 12.5092 µg/mL Unstressed +/- 14.9944 µg/mL Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 (Lot STBK2282) Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL Gravimetric +/- 12.5465 µg/mL Unstressed +/- 15.0390 µg/mL Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 (Lot SHBM4146) Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL Gravimetric +/- 12.5390 µg/mL Unstressed +/- 15.0301 µg/mL Stressed
6	n-Octadecane (C18) CAS # 593-45-3 (Lot VZKOJ) Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL Gravimetric +/- 12.5316 µg/mL Unstressed +/- 15.0212 µg/mL Stressed
7	n-Eicosane (C20) CAS # 112-95-8 (Lot MKCF7888) Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL Gravimetric +/- 12.5092 µg/mL Unstressed +/- 14.9944 µg/mL Stressed

8	n-Docosane (C22)		(Lot MKCL8918)	504.5	µg/mL	+/-	2.9966	µg/mL	Gravimetric
	CAS #	629-97-0				+/-	12.5340	µg/mL	Unstressed
	Purity	99%				+/-	15.0241	µg/mL	Stressed
9	n-Tetracosane (C24)		(Lot MKCN2863)	503.5	µg/mL	+/-	2.9906	µg/mL	Gravimetric
	CAS #	646-31-1				+/-	12.5092	µg/mL	Unstressed
	Purity	99%				+/-	14.9944	µg/mL	Stressed
10	n-Hexacosane (C26)		(Lot MKCD4540)	504.0	µg/mL	+/-	2.9936	µg/mL	Gravimetric
	CAS #	630-01-3				+/-	12.5216	µg/mL	Unstressed
	Purity	99%				+/-	15.0093	µg/mL	Stressed
11	n-Octacosane (C28)		(Lot BCCG0084)	504.5	µg/mL	+/-	2.9966	µg/mL	Gravimetric
	CAS #	630-02-4				+/-	12.5340	µg/mL	Unstressed
	Purity	99%				+/-	15.0241	µg/mL	Stressed
12	n-Triacontane (C30)		(Lot MKCN9321)	505.0	µg/mL	+/-	2.9995	µg/mL	Gravimetric
	CAS #	638-68-6				+/-	12.5465	µg/mL	Unstressed
	Purity	99%				+/-	15.0390	µg/mL	Stressed
13	n-Dotriacontane (C32)		(Lot BCBW0661)	505.0	µg/mL	+/-	2.9995	µg/mL	Gravimetric
	CAS #	544-85-4				+/-	12.5465	µg/mL	Unstressed
	Purity	99%				+/-	15.0390	µg/mL	Stressed
14	n-Tetratriacontane (C34)		(Lot OML4N)	504.5	µg/mL	+/-	2.9966	µg/mL	Gravimetric
	CAS #	14167-59-0				+/-	12.5340	µg/mL	Unstressed
	Purity	99%				+/-	15.0241	µg/mL	Stressed
15	n-Hexatriacontane (C36)		(Lot U25B014)	504.0	µg/mL	+/-	2.9936	µg/mL	Gravimetric
	CAS #	630-06-8				+/-	12.5216	µg/mL	Unstressed
	Purity	99%				+/-	15.0093	µg/mL	Stressed
16	n-Octatriacontane (C38)		(Lot 0000127235)	504.4	µg/mL	+/-	2.9960	µg/mL	Gravimetric
	CAS #	7194-85-6				+/-	12.5316	µg/mL	Unstressed
	Purity	97%				+/-	15.0212	µg/mL	Stressed
17	n-Tetracontane (C40)		(Lot PADGI)	504.7	µg/mL	+/-	2.9978	µg/mL	Gravimetric
	CAS #	4181-95-7				+/-	12.5390	µg/mL	Unstressed
	Purity	98%				+/-	15.0301	µg/mL	Stressed
Solvent:	Hexane								
	CAS #	110-54-3							
	Purity	99%							

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

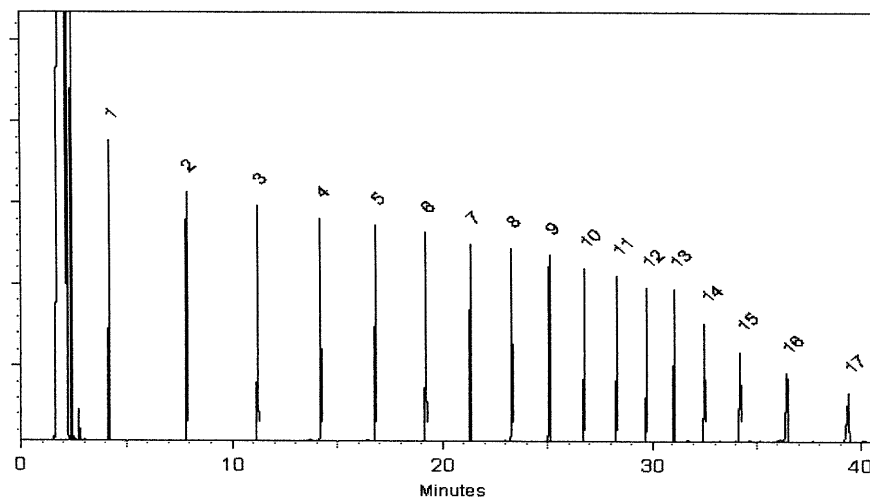
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brittany Federinko
Brittany Federinko - Operations Tech I

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

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

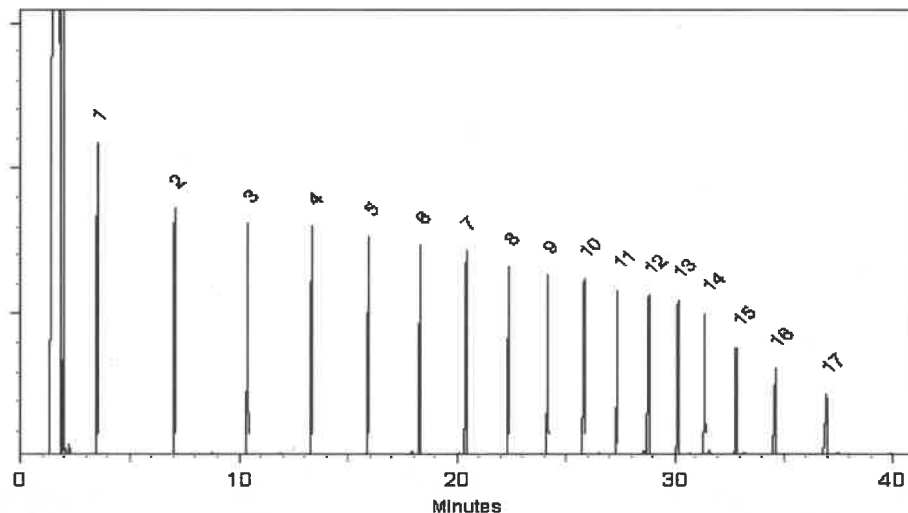
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

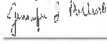


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

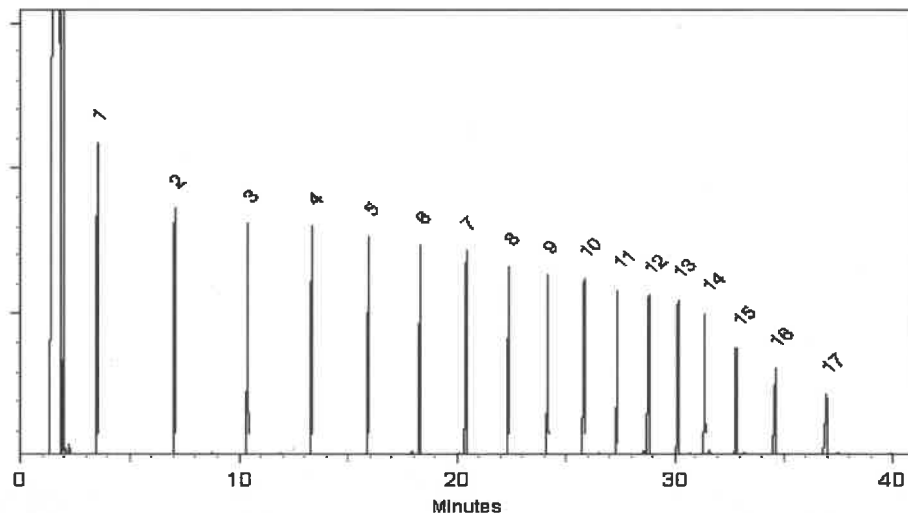
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

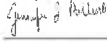


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED WEIGHT REPORT

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

Solvent(s):
 Methylene chloride

Lot#
 105345

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

Expiration Date: 101132

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

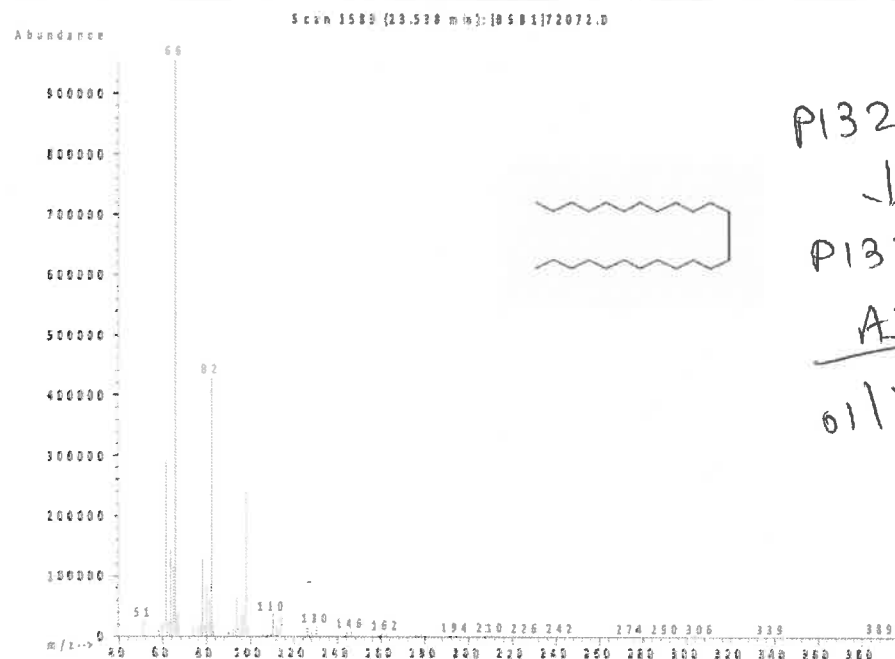
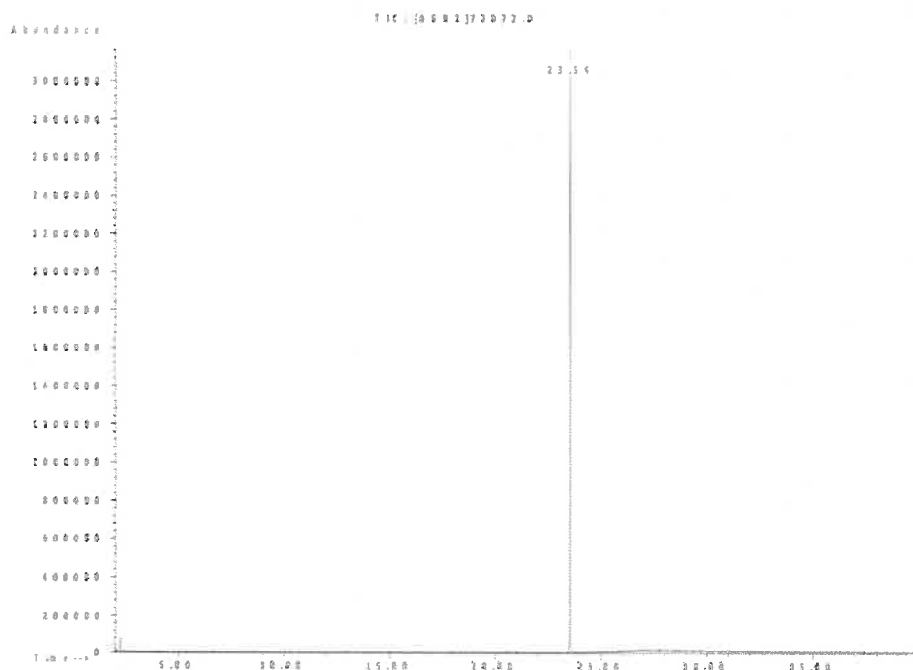
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

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

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



P13205
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 P13214
 AJ
 01/17/24

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



5580 Skyline Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 $\pm$ 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 $\pm$ 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 $\pm$ 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 $\pm$ 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 $\pm$ 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 $\pm$ 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 $\pm$ 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 $\pm$ 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 $\pm$ 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 $\pm$ 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 $\pm$ 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 $\pm$ 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 $\pm$ 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 $\pm$ 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 $\pm$ 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 $\pm$ 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 $\pm$ 6.94

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

Certified By: _____

Andrea Schaible
Chemist

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

*Not a certified value



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 $\pm$ 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 $\pm$ 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 $\pm$ 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 $\pm$ 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 $\pm$ 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 $\pm$ 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 $\pm$ 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 $\pm$ 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 $\pm$ 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 $\pm$ 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 $\pm$ 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 $\pm$ 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 $\pm$ 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 $\pm$ 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 $\pm$ 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 $\pm$ 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 $\pm$ 6.94

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

Certified By: _____

Andrea Schaible
Chemist

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

*Not a certified value

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

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

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

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

Peak No. Name FID RT (min)

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

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

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

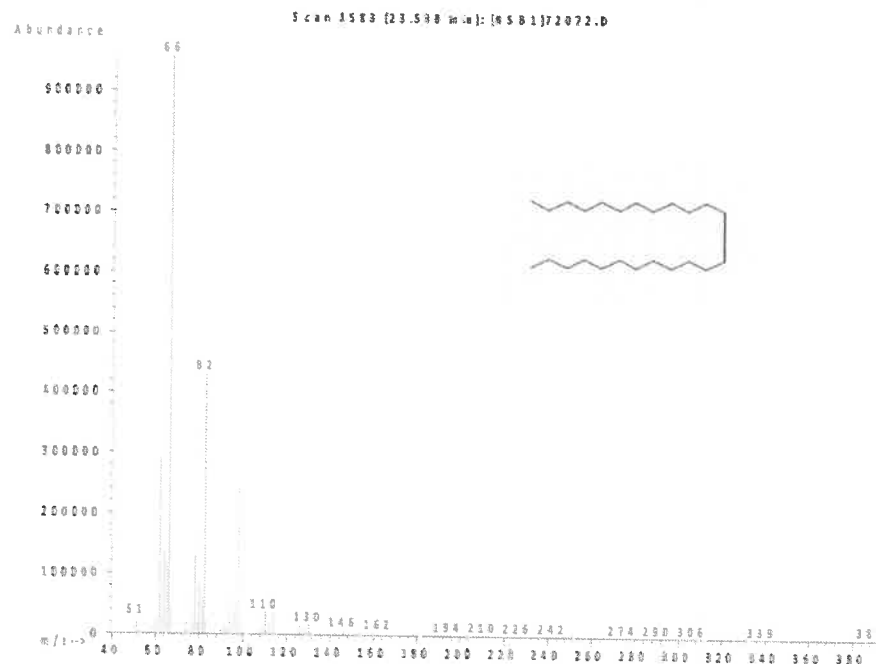
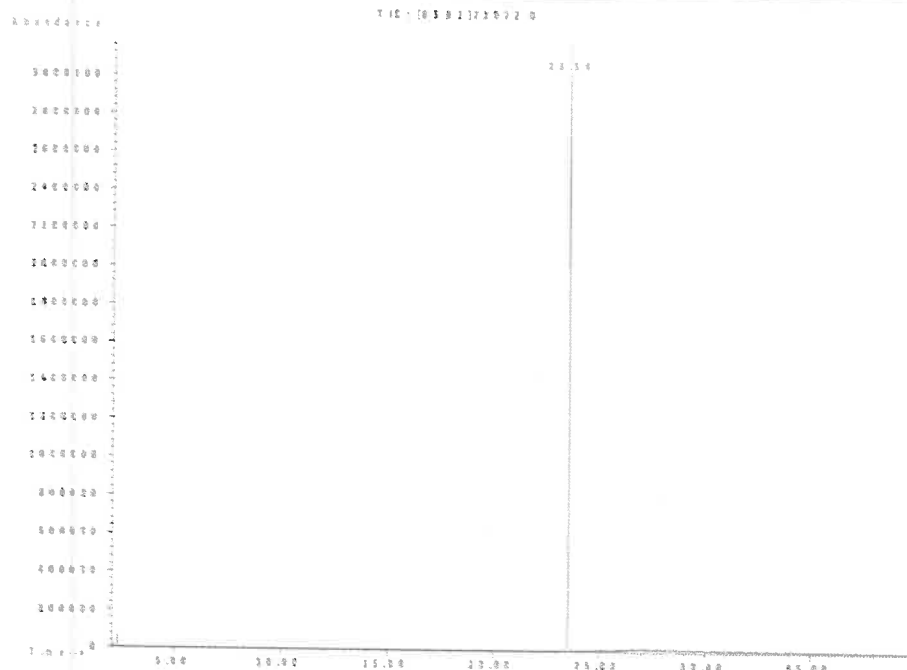
P13477 } x.p.
↓
P13496 } 07/24/24

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

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

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

Solvent(s): Methylene chloride
Lot# 78782

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.)
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1 N/A
2. Naphthalene-d8	222	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1148-05-2 10 ppm (50mg/m3) N/A
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2 N/A
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2 N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04159	4001.3	15.4	1719-03-5 N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04158	4001.2	15.4	1503-08-3 N/A

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

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

Qualitative Quantitative

Peak No. Name FID RT (min)

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

3rd Party Comparison

Analyte	Sup/Abs Dev (%)
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	2.74
Phenanthrene-d10	0.65
Chrysene-d12	1.93
Perylene-d12	-1.72
Total	-0.55

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

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2





CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

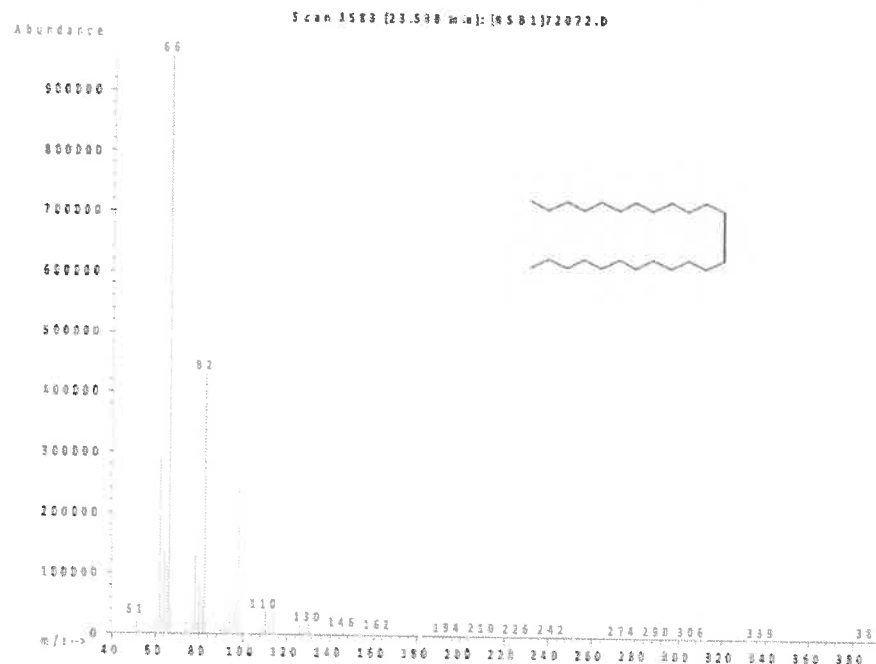
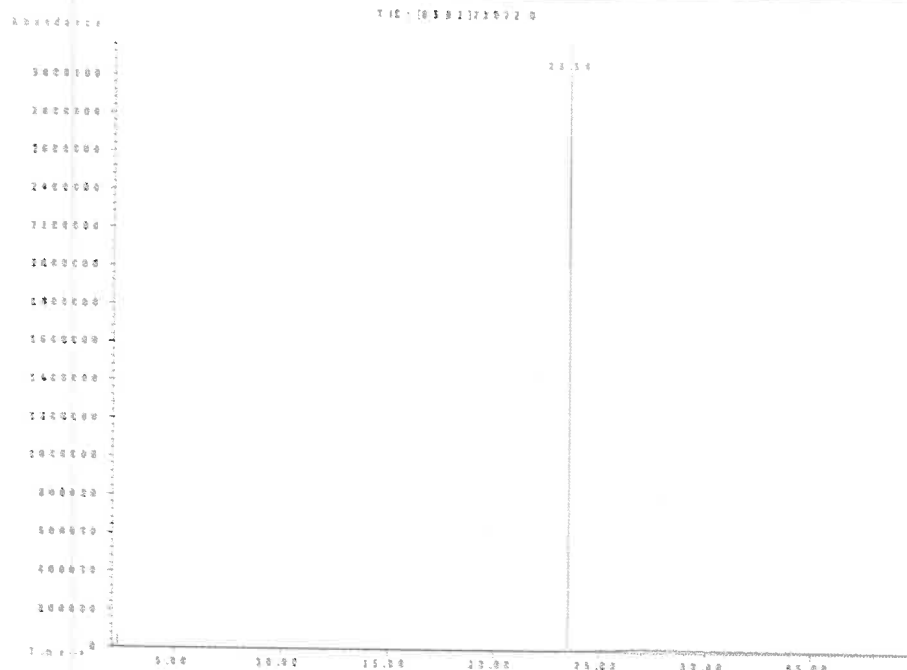
P13477 } x.p.
↓
P13496 } 07/24/24

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

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

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

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

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

Peak No. Name FID RT (min)

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

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

Part # 10009R Lot # 041219

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

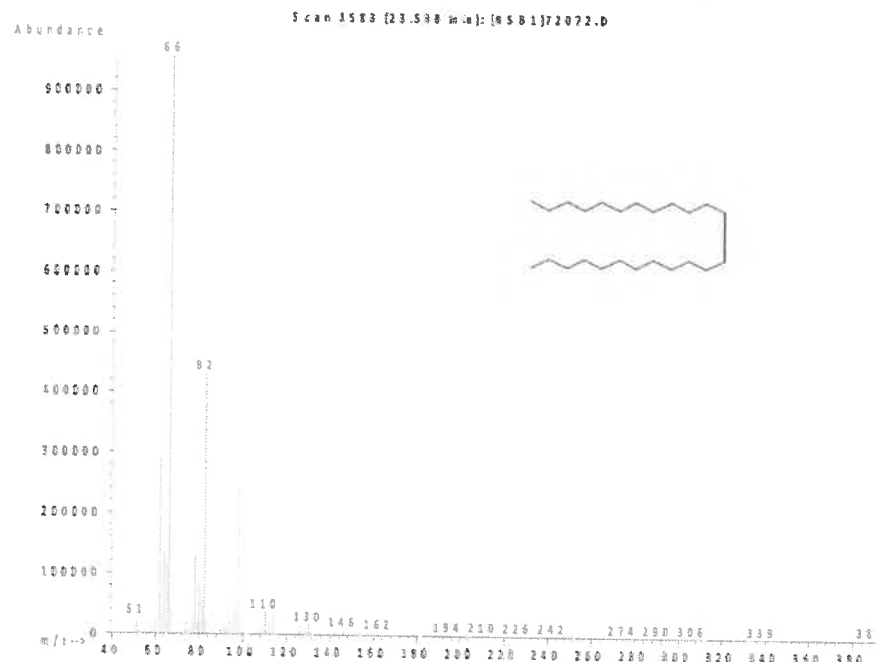
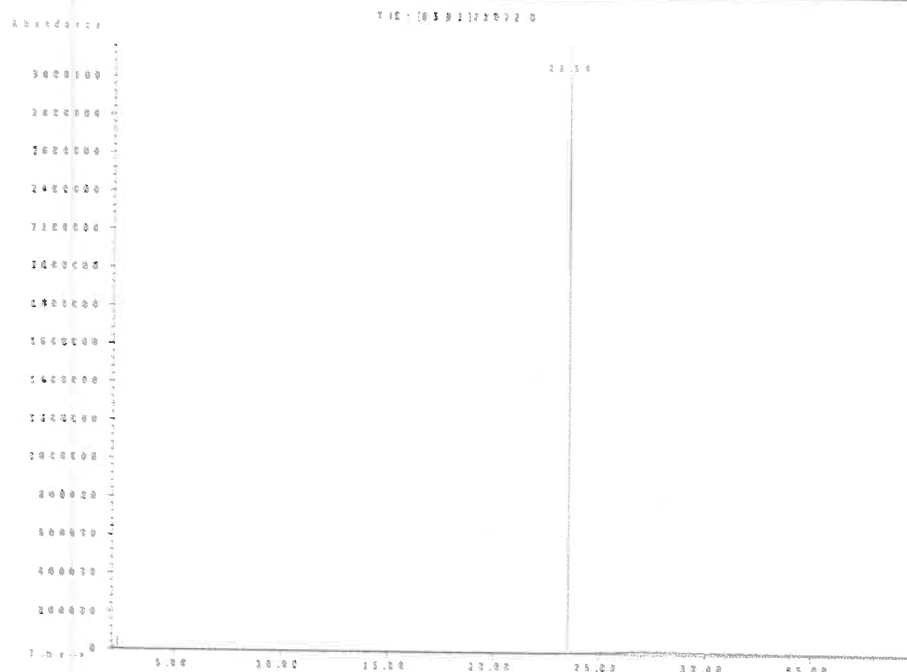
*P13477 } x.p.
↓
P13496 } 07/24/24*

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

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

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

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

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

Peak No. Name FID RT (min)

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

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

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s): **Methylene chloride**
Lot#: **105345**

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

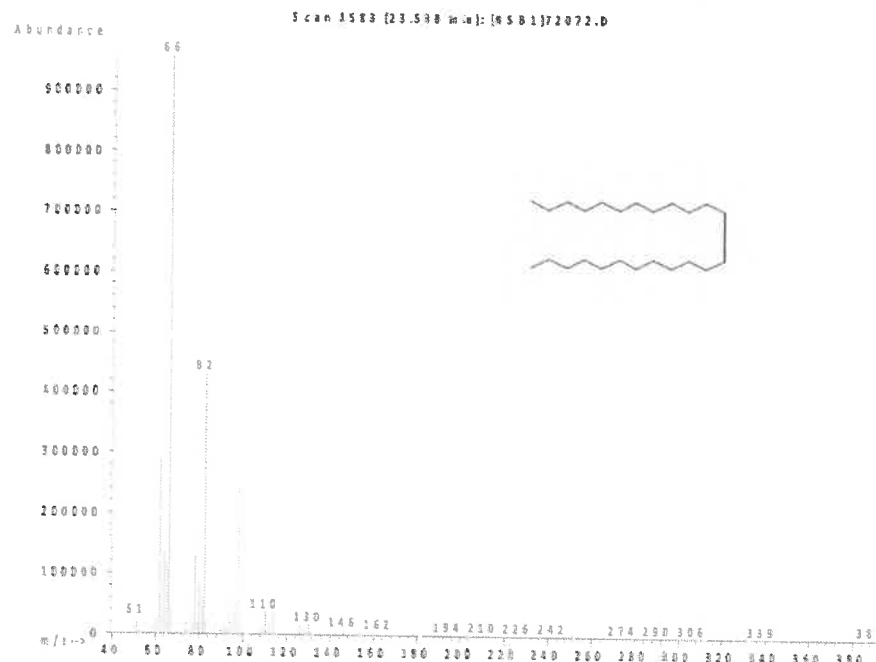
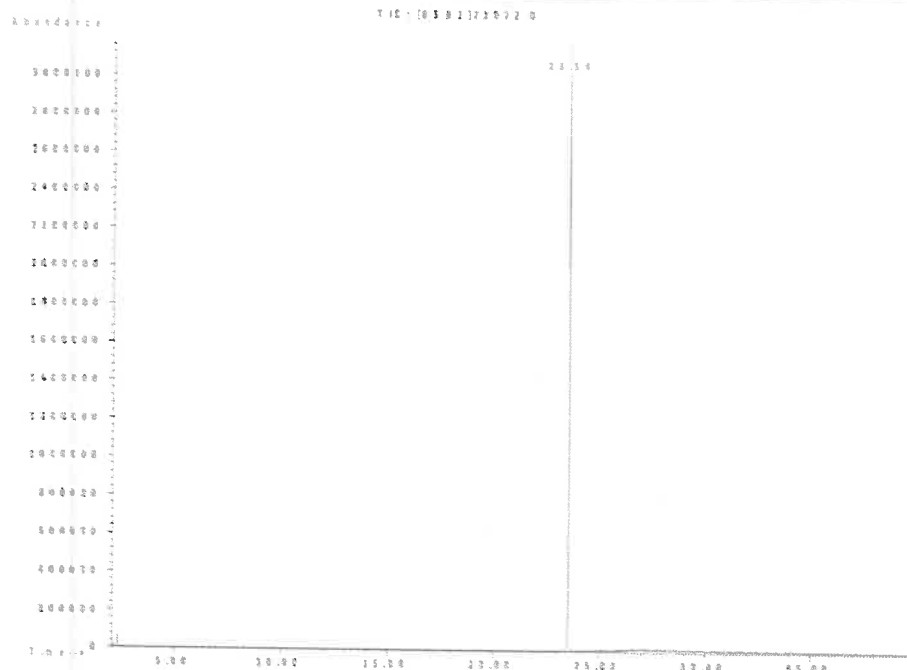
*P13477 } x.p.
↓
P13496 } 07/24/24*

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

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

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

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



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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015253.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 14:22
Operator : YP\AJ
Sample : Q1216-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-18.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:08:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.044	1711087	13.339 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

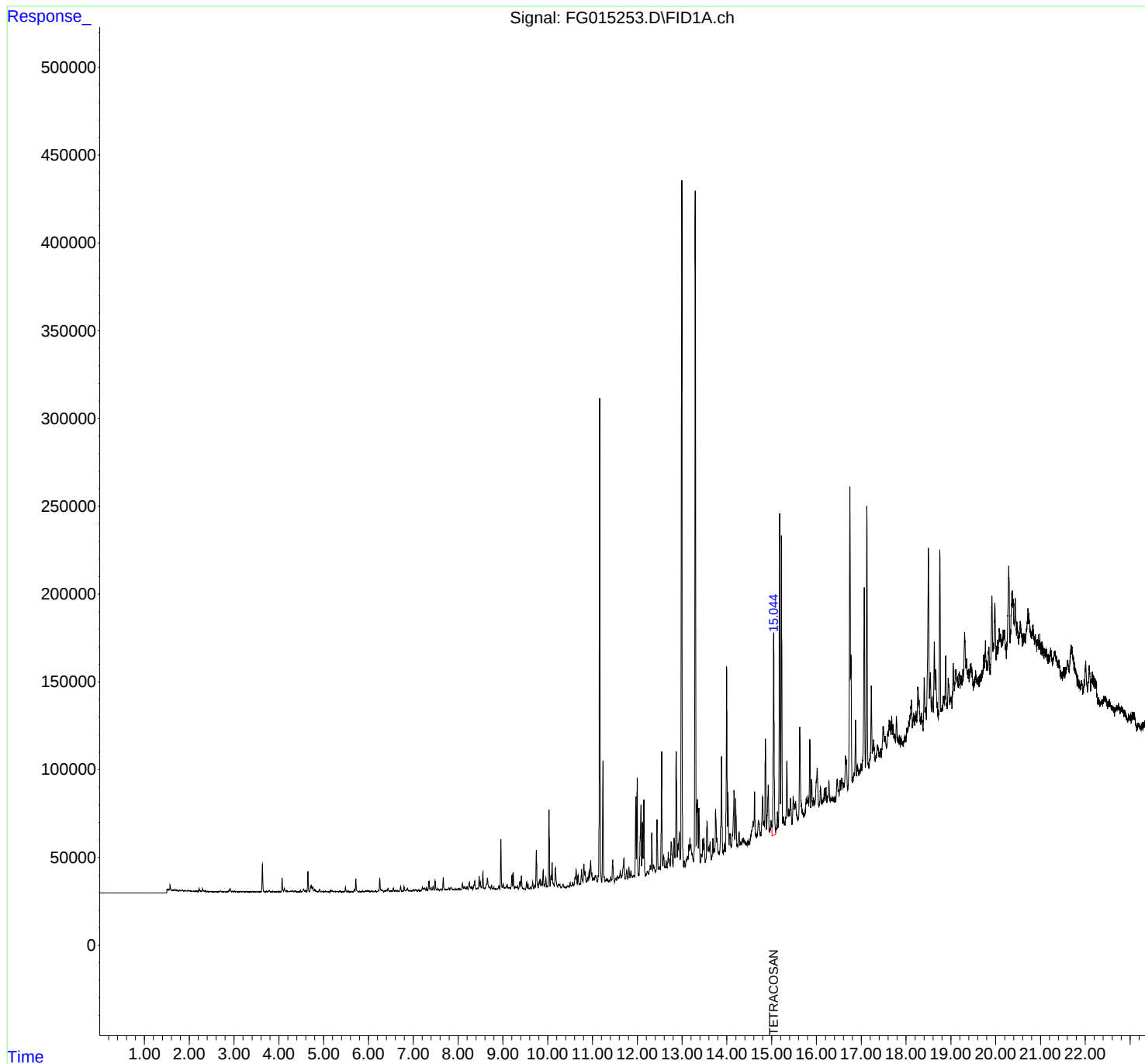
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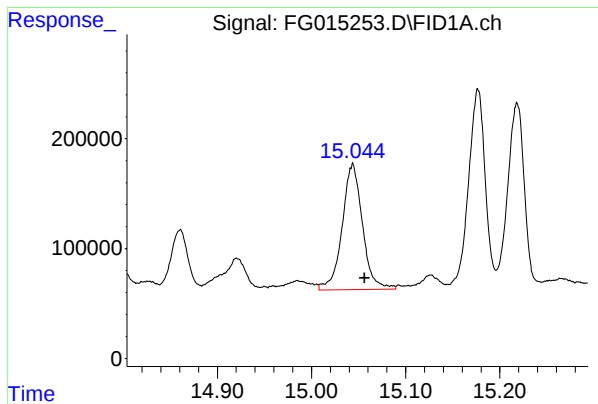
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Data File : FG015253.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 14:22
Operator : YP\AJ
Sample : Q1216-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-18.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:08:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.044 min
Delta R.T.: -0.012 min
Response: 1711087
Conc: 13.34 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-18.1-012825

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015253.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 14:22
 Sample : Q1216-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.364	4.350	4.388	BH	333	2179	0.04%	0.001%
2	4.393	4.388	4.402	PH	-107	-1325	-0.02%	-0.001%
3	4.410	4.402	4.419	PH	-118	-1683	-0.03%	-0.001%
4	4.431	4.419	4.452	PH	-116	-3686	-0.07%	-0.002%
5	4.476	4.452	4.506	PH	432	-825	-0.02%	-0.000%
6	4.552	4.506	4.571	PH	1374	20342	0.38%	0.012%
7	4.579	4.571	4.601	HH	392	4108	0.08%	0.002%
8	4.613	4.601	4.627	PH	325	2851	0.05%	0.002%
9	4.649	4.627	4.682	HH	11540	114475	2.11%	0.066%
10	4.707	4.682	4.715	PH	2874	25439	0.47%	0.015%
11	4.726	4.715	4.745	HH	3574	47216	0.87%	0.027%
12	4.758	4.745	4.783	HH	2556	33865	0.62%	0.020%
13	4.797	4.783	4.849	HH	1313	20078	0.37%	0.012%
14	4.852	4.849	4.870	PH	91	-286	-0.01%	-0.000%
15	4.906	4.870	4.956	PH	1273	13433	0.25%	0.008%
16	4.959	4.956	4.970	PH	65	-317	-0.01%	-0.000%
17	5.002	4.970	5.029	PH	11	-1717	-0.03%	-0.001%
18	5.043	5.029	5.086	PH	193	-871	-0.02%	-0.001%
19	5.094	5.086	5.109	PH	-87	-1676	-0.03%	-0.001%
20	5.119	5.109	5.138	PH	-56	-2197	-0.04%	-0.001%
21	5.155	5.138	5.170	PH	559	4844	0.09%	0.003%
22	5.185	5.170	5.191	HH	379	3543	0.07%	0.002%
23	5.197	5.191	5.235	HH	332	1041	0.02%	0.001%
24	5.248	5.235	5.273	PH	200	391	0.01%	0.000%
25	5.297	5.273	5.316	PH	232	135	0.00%	0.000%
26	5.330	5.316	5.346	PH	-26	-2278	-0.04%	-0.001%
27	5.362	5.346	5.410	PH	557	-116	-0.00%	-0.000%
28	5.424	5.410	5.441	PH	80	-1520	-0.03%	-0.001%
29	5.486	5.441	5.512	PH	2310	18743	0.35%	0.011%
30	5.522	5.512	5.539	PH	152	69	0.00%	0.000%
31	5.555	5.539	5.579	PH	77	-1957	-0.04%	-0.001%
32	5.583	5.579	5.592	PH	-192	-1572	-0.03%	-0.001%
33	5.622	5.592	5.658	PH	53	-5738	-0.11%	-0.003%
34	5.684	5.658	5.700	PH	1288	12116	0.22%	0.007%
35	5.718	5.700	5.782	HH	7284	76081	1.40%	0.044%
36	5.796	5.782	5.813	PH	54	-736	-0.01%	-0.000%

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37	5.818	5.813	5.824	PH	-58	-940	-0.02%	-0.001%
38	5.871	5.824	5.900	PH	381	2775	0.05%	0.002%
39	5.936	5.900	5.964	PH	334	4236	0.08%	0.002%
40	5.975	5.964	5.986	HH	402	4090	0.08%	0.002%
41	5.991	5.986	6.037	HH	396	5163	0.10%	0.003%
42	6.054	6.037	6.060	PH	229	1362	0.03%	0.001%
43	6.066	6.060	6.085	HH	266	2780	0.05%	0.002%
44	6.089	6.085	6.110	HH	106	719	0.01%	0.000%
45	6.122	6.110	6.138	PH	94	216	0.00%	0.000%
46	6.154	6.138	6.181	PH	630	6651	0.12%	0.004%
47	6.195	6.181	6.202	PH	86	-56	-0.00%	-0.000%
48	6.219	6.202	6.234	HH	692	7290	0.13%	0.004%
49	6.253	6.234	6.296	HH	7799	93247	1.72%	0.054%
50	6.299	6.296	6.337	HH	739	9698	0.18%	0.006%
51	6.362	6.337	6.384	PH	544	7154	0.13%	0.004%
52	6.405	6.384	6.417	HH	915	9830	0.18%	0.006%
53	6.436	6.417	6.464	HH	1791	25175	0.46%	0.015%
54	6.485	6.464	6.502	HH	383	6098	0.11%	0.004%
55	6.505	6.502	6.525	HH	323	3300	0.06%	0.002%
56	6.556	6.525	6.575	HH	1896	23764	0.44%	0.014%
57	6.605	6.575	6.618	HH	566	10314	0.19%	0.006%
58	6.630	6.618	6.654	HH	457	7291	0.13%	0.004%
59	6.660	6.654	6.675	HH	247	2560	0.05%	0.001%
60	6.685	6.675	6.691	HH	205	1579	0.03%	0.001%
61	6.718	6.691	6.747	HH	3050	37452	0.69%	0.022%
62	6.756	6.747	6.778	HH	342	4946	0.09%	0.003%
63	6.797	6.778	6.827	HH	2658	32920	0.61%	0.019%
64	6.872	6.827	6.901	HH	1640	39278	0.72%	0.023%
65	6.912	6.901	6.931	HH	623	8436	0.16%	0.005%
66	6.946	6.931	6.968	HH	546	9109	0.17%	0.005%
67	7.003	6.968	7.021	HH	812	17009	0.31%	0.010%
68	7.045	7.021	7.082	HH	1112	25074	0.46%	0.014%
69	7.086	7.082	7.099	HH	565	4566	0.08%	0.003%
70	7.124	7.099	7.146	HH	994	17781	0.33%	0.010%
71	7.155	7.146	7.159	HH	475	3139	0.06%	0.002%
72	7.204	7.159	7.222	HH	2574	44045	0.81%	0.025%
73	7.233	7.222	7.242	HH	1642	17895	0.33%	0.010%
74	7.254	7.242	7.276	HH	1982	29844	0.55%	0.017%
75	7.295	7.276	7.325	HH	1932	34350	0.63%	0.020%
76	7.351	7.325	7.373	HH	6014	81584	1.51%	0.047%
77	7.396	7.373	7.422	HH	2157	43131	0.80%	0.025%
78	7.443	7.422	7.472	HH	3006	48449	0.89%	0.028%
79	7.490	7.472	7.520	HH	6109	78085	1.44%	0.045%
80	7.539	7.520	7.560	HH	1598	28108	0.52%	0.016%
81	7.571	7.560	7.592	HH	1091	17756	0.33%	0.010%
82	7.614	7.592	7.649	HH	1509	38939	0.72%	0.022%
83	7.671	7.649	7.701	HH	7828	103629	1.91%	0.060%
84	7.725	7.701	7.749	HH	1384	34069	0.63%	0.020%
85	7.758	7.749	7.773	HH	1262	16197	0.30%	0.009%
86	7.800	7.773	7.819	HH	1707	39480	0.73%	0.023%
87	7.844	7.819	7.878	HH	2446	60119	1.11%	0.035%
88	7.889	7.878	7.910	HH	1355	22049	0.41%	0.013%
89	7.936	7.910	7.946	HH	1480	25755	0.48%	0.015%

					rteres			
90	7.956	7.946	7.974	HH	1410	20851	0.38%	0.012%
91	8.008	7.974	8.031	HH	1842	49248	0.91%	0.028%
92	8.041	8.031	8.067	HH	1489	26804	0.49%	0.015%
93	8.098	8.067	8.118	HH	4378	76597	1.41%	0.044%
94	8.132	8.118	8.147	HH	2692	40598	0.75%	0.023%
95	8.158	8.147	8.180	HH	2597	38962	0.72%	0.022%
96	8.201	8.180	8.222	HH	2697	48427	0.89%	0.028%
97	8.251	8.222	8.275	HH	5204	95864	1.77%	0.055%
98	8.281	8.275	8.290	HH	2131	19029	0.35%	0.011%
99	8.304	8.290	8.327	HH	3003	47736	0.88%	0.028%
100	8.352	8.327	8.358	HH	3614	47501	0.88%	0.027%
101	8.372	8.358	8.405	HH	6140	97922	1.81%	0.056%
102	8.426	8.405	8.433	HH	1861	28706	0.53%	0.017%
103	8.472	8.433	8.488	HH	8649	130398	2.41%	0.075%
104	8.500	8.488	8.517	HH	5339	65333	1.21%	0.038%
105	8.555	8.517	8.582	HH	10948	171291	3.16%	0.099%
106	8.658	8.582	8.691	HH	7751	237074	4.37%	0.137%
107	8.709	8.691	8.729	HH	2814	51800	0.96%	0.030%
108	8.750	8.729	8.778	HH	3733	65856	1.22%	0.038%
109	8.799	8.778	8.821	HH	2481	47173	0.87%	0.027%
110	8.831	8.821	8.835	HH	1549	12674	0.23%	0.007%
111	8.852	8.835	8.874	HH	1719	34472	0.64%	0.020%
112	8.911	8.874	8.933	HH	3286	74984	1.38%	0.043%
113	8.957	8.933	8.984	HH	29745	338024	6.24%	0.195%
114	9.007	8.984	9.041	HH	4455	101493	1.87%	0.058%
115	9.050	9.041	9.060	HH	2246	24124	0.45%	0.014%
116	9.077	9.060	9.085	HH	2975	37283	0.69%	0.021%
117	9.098	9.085	9.117	HH	3976	59220	1.09%	0.034%
118	9.123	9.117	9.136	HH	2173	23261	0.43%	0.013%
119	9.150	9.136	9.165	HH	2522	36878	0.68%	0.021%
120	9.203	9.165	9.218	HH	9313	141709	2.61%	0.082%
121	9.234	9.218	9.259	HH	10896	136547	2.52%	0.079%
122	9.275	9.259	9.290	HH	2806	42078	0.78%	0.024%
123	9.299	9.290	9.309	HH	2333	26479	0.49%	0.015%
124	9.325	9.309	9.344	HH	3309	51651	0.95%	0.030%
125	9.380	9.344	9.399	HH	5646	122192	2.25%	0.070%
126	9.415	9.399	9.456	HH	8883	137304	2.53%	0.079%
127	9.474	9.456	9.498	HH	1760	37015	0.68%	0.021%
128	9.530	9.498	9.548	HH	5531	85007	1.57%	0.049%
129	9.562	9.548	9.598	HH	4305	74899	1.38%	0.043%
130	9.613	9.598	9.630	HH	2526	38954	0.72%	0.022%
131	9.667	9.630	9.688	HH	5719	106927	1.97%	0.062%
132	9.711	9.688	9.726	HH	3761	61830	1.14%	0.036%
133	9.749	9.726	9.792	HH	23670	332044	6.13%	0.191%
134	9.808	9.792	9.815	HH	5424	58388	1.08%	0.034%
135	9.829	9.815	9.846	HH	6924	96476	1.78%	0.056%
136	9.871	9.846	9.883	HH	5667	93690	1.73%	0.054%
137	9.901	9.883	9.922	HH	12152	170577	3.15%	0.098%
138	9.932	9.922	9.942	HH	3815	41214	0.76%	0.024%
139	9.961	9.942	9.985	HH	7852	124469	2.30%	0.072%
140	10.031	9.985	10.055	HH	46555	572785	10.57%	0.330%
141	10.075	10.055	10.086	HH	9384	121827	2.25%	0.070%

rteres								
142	10.100	10.086	10.145	HH	16408	265795	4.90%	0.153%
143	10.173	10.145	10.222	HH	13209	290021	5.35%	0.167%
144	10.239	10.222	10.259	HH	4272	81416	1.50%	0.047%
145	10.273	10.259	10.300	HH	4033	77203	1.42%	0.044%
146	10.345	10.300	10.374	HH	4269	134060	2.47%	0.077%
147	10.377	10.374	10.400	HH	2548	36050	0.67%	0.021%
148	10.440	10.400	10.460	HH	3431	95869	1.77%	0.055%
149	10.474	10.460	10.484	HH	3183	44073	0.81%	0.025%
150	10.503	10.484	10.537	HH	4956	115305	2.13%	0.066%
151	10.556	10.537	10.584	HH	5160	116297	2.15%	0.067%
152	10.612	10.584	10.623	HH	8357	140607	2.59%	0.081%
153	10.638	10.623	10.661	HH	12368	196504	3.63%	0.113%
154	10.678	10.661	10.720	HH	9339	202339	3.73%	0.117%
155	10.756	10.720	10.789	HH	12780	294624	5.44%	0.170%
156	10.810	10.789	10.826	HH	15592	249117	4.60%	0.144%
157	10.837	10.826	10.860	HH	11408	181335	3.35%	0.105%
158	10.890	10.860	10.902	HH	7936	161192	2.97%	0.093%
159	10.927	10.902	10.940	HH	11602	210684	3.89%	0.121%
160	10.961	10.940	10.979	HH	17754	299665	5.53%	0.173%
161	10.986	10.979	11.003	HH	10597	132126	2.44%	0.076%
162	11.014	11.003	11.026	HH	7624	100322	1.85%	0.058%
163	11.034	11.026	11.046	HH	7858	86602	1.60%	0.050%
164	11.061	11.046	11.071	HH	9178	123015	2.27%	0.071%
165	11.077	11.071	11.110	HH	8578	162562	3.00%	0.094%
166	11.129	11.110	11.135	HH	9291	114426	2.11%	0.066%
167	11.162	11.135	11.209	HH	281195	3250092	59.97%	1.873%
168	11.235	11.209	11.258	HH	74184	873846	16.12%	0.504%
169	11.262	11.258	11.280	HH	8333	94213	1.74%	0.054%
170	11.293	11.280	11.300	HH	6414	77365	1.43%	0.045%
171	11.314	11.300	11.325	HH	7362	100166	1.85%	0.058%
172	11.336	11.325	11.360	HH	6955	138075	2.55%	0.080%
173	11.377	11.360	11.391	HH	6413	110483	2.04%	0.064%
174	11.408	11.391	11.430	HH	8168	159958	2.95%	0.092%
175	11.451	11.430	11.495	HH	17958	396117	7.31%	0.228%
176	11.524	11.495	11.538	HH	7689	173145	3.19%	0.100%
177	11.557	11.538	11.581	HH	8802	201521	3.72%	0.116%
178	11.591	11.581	11.602	HH	8226	101846	1.88%	0.059%
179	11.623	11.602	11.645	HH	11654	241377	4.45%	0.139%
180	11.702	11.645	11.733	HH	18867	617021	11.39%	0.356%
181	11.766	11.733	11.791	HH	12044	317120	5.85%	0.183%
182	11.816	11.791	11.838	HH	13308	280082	5.17%	0.161%
183	11.856	11.838	11.888	HH	11799	284783	5.25%	0.164%
184	11.894	11.888	11.900	HH	8443	62831	1.16%	0.036%
185	11.920	11.900	11.941	HH	9425	214793	3.96%	0.124%
186	11.968	11.941	11.983	HH	53848	700738	12.93%	0.404%
187	11.998	11.983	12.026	HH	64476	817333	15.08%	0.471%
188	12.083	12.026	12.100	HH	49191	1059210	19.54%	0.610%
189	12.116	12.100	12.131	HH	38972	525361	9.69%	0.303%
190	12.147	12.131	12.179	HH	52146	760765	14.04%	0.438%
191	12.193	12.179	12.204	HH	9661	138569	2.56%	0.080%
192	12.228	12.204	12.251	HH	11658	300738	5.55%	0.173%
193	12.291	12.251	12.305	HH	14900	398560	7.35%	0.230%
194	12.325	12.305	12.346	HH	33596	525962	9.71%	0.303%

					rteres			
195	12.360	12.346	12.410	HH	15030	499378	9.21%	0.288%
196	12.441	12.410	12.465	HH	40802	709135	13.08%	0.409%
197	12.474	12.465	12.486	HH	13388	169325	3.12%	0.098%
198	12.501	12.486	12.516	HH	14196	236063	4.36%	0.136%
199	12.545	12.516	12.567	HH	79396	1184355	21.85%	0.683%
200	12.589	12.567	12.610	HH	20535	437629	8.08%	0.252%
201	12.619	12.610	12.633	HH	14301	188295	3.47%	0.109%
202	12.646	12.633	12.662	HH	17340	268538	4.96%	0.155%
203	12.692	12.662	12.707	HH	22564	495893	9.15%	0.286%
204	12.716	12.707	12.732	HH	18244	250178	4.62%	0.144%
205	12.758	12.732	12.775	HH	28185	561771	10.37%	0.324%
206	12.778	12.775	12.798	HH	21542	244985	4.52%	0.141%
207	12.821	12.798	12.842	HH	30353	567501	10.47%	0.327%
208	12.869	12.842	12.893	HH	79588	1325339	24.46%	0.764%
209	12.909	12.893	12.921	HH	27164	409601	7.56%	0.236%
210	12.937	12.921	12.958	HH	33379	577625	10.66%	0.333%
211	12.993	12.958	13.034	HH	404698	5184808	95.67%	2.988%
212	13.050	13.034	13.068	HH	17270	317428	5.86%	0.183%
213	13.089	13.068	13.097	HH	18352	288177	5.32%	0.166%
214	13.122	13.097	13.135	HH	19747	432170	7.97%	0.249%
215	13.152	13.135	13.163	HH	26533	388683	7.17%	0.224%
216	13.176	13.163	13.187	HH	30324	394440	7.28%	0.227%
217	13.197	13.187	13.224	HH	26892	533494	9.84%	0.307%
218	13.228	13.224	13.262	HH	21917	435632	8.04%	0.251%
219	13.293	13.262	13.313	HH	399413	4785108	88.30%	2.758%
220	13.326	13.313	13.334	HH	49594	517846	9.56%	0.298%
221	13.344	13.334	13.361	HH	52416	704665	13.00%	0.406%
222	13.377	13.361	13.410	HH	47487	857505	15.82%	0.494%
223	13.430	13.410	13.443	HH	21135	378973	6.99%	0.218%
224	13.463	13.443	13.476	HH	30003	489297	9.03%	0.282%
225	13.490	13.476	13.515	HH	30538	569934	10.52%	0.328%
226	13.556	13.515	13.581	HH	39969	1013619	18.70%	0.584%
227	13.592	13.581	13.607	HH	24983	369739	6.82%	0.213%
228	13.624	13.607	13.654	HH	28176	664169	12.26%	0.383%
229	13.686	13.654	13.704	HH	30309	710100	13.10%	0.409%
230	13.714	13.704	13.727	HH	24481	339157	6.26%	0.195%
231	13.750	13.727	13.770	HH	46536	909763	16.79%	0.524%
232	13.778	13.770	13.814	HH	29861	656228	12.11%	0.378%
233	13.880	13.814	13.919	HH	76120	2247594	41.47%	1.295%
234	13.947	13.919	13.964	HH	26907	658366	12.15%	0.379%
235	13.994	13.964	14.014	HH	127035	2055863	37.93%	1.185%
236	14.027	14.014	14.048	HH	56547	856932	15.81%	0.494%
237	14.069	14.048	14.100	HH	33087	901826	16.64%	0.520%
238	14.157	14.100	14.177	HH	57215	1752824	32.34%	1.010%
239	14.198	14.177	14.227	HH	52853	1120046	20.67%	0.645%
240	14.230	14.227	14.239	HH	26317	190712	3.52%	0.110%
241	14.272	14.239	14.297	HH	33719	1015061	18.73%	0.585%
242	14.307	14.297	14.312	HH	28357	246396	4.55%	0.142%
243	14.315	14.312	14.328	HH	27691	255583	4.72%	0.147%
244	14.345	14.328	14.351	HH	30050	397538	7.34%	0.229%
245	14.362	14.351	14.398	HH	30208	809976	14.95%	0.467%
246	14.404	14.398	14.425	HH	28241	453455	8.37%	0.261%

rteres								
247	14.432	14.425	14.449	HH	27854	393163	7.25%	0.227%
248	14.469	14.449	14.482	HH	28543	529610	9.77%	0.305%
249	14.496	14.482	14.512	HH	28495	506360	9.34%	0.292%
250	14.586	14.512	14.601	HH	40171	1859523	34.31%	1.072%
251	14.617	14.601	14.657	HH	56753	1340942	24.74%	0.773%
252	14.672	14.657	14.678	HH	32558	395498	7.30%	0.228%
253	14.701	14.678	14.754	HH	40776	1646959	30.39%	0.949%
254	14.797	14.754	14.817	HH	53615	1579690	29.15%	0.910%
255	14.827	14.817	14.840	HH	39442	521898	9.63%	0.301%
256	14.861	14.840	14.883	HH	86544	1524964	28.14%	0.879%
257	14.921	14.883	14.945	HH	60745	1691874	31.22%	0.975%
258	14.985	14.945	15.008	HH	40521	1382269	25.51%	0.797%
259	15.044	15.008	15.090	HH	147190	3288357	60.68%	1.895%
260	15.093	15.090	15.099	HH	36355	196106	3.62%	0.113%
261	15.127	15.099	15.147	HH	45441	1138381	21.01%	0.656%
262	15.177	15.147	15.196	HH	213904	3219299	59.40%	1.855%
263	15.218	15.196	15.245	HH	202100	3047182	56.23%	1.756%
264	15.265	15.245	15.290	HH	42141	1104717	20.38%	0.637%
265	15.337	15.290	15.365	HH	74275	2228153	41.11%	1.284%
266	15.380	15.365	15.397	HH	46737	843677	15.57%	0.486%
267	15.416	15.397	15.452	HH	52576	1528522	28.20%	0.881%
268	15.479	15.452	15.502	HH	54062	1418947	26.18%	0.818%
269	15.514	15.502	15.526	HH	49683	699834	12.91%	0.403%
270	15.534	15.526	15.555	HH	51394	807691	14.90%	0.465%
271	15.557	15.555	15.577	HH	44015	562950	10.39%	0.324%
272	15.589	15.577	15.598	HH	42165	539515	9.96%	0.311%
273	15.626	15.598	15.691	HH	93696	3227199	59.55%	1.860%
274	15.696	15.691	15.713	HH	45138	582734	10.75%	0.336%
275	15.732	15.713	15.742	HH	44502	750108	13.84%	0.432%
276	15.770	15.742	15.778	HH	52953	1055882	19.48%	0.609%
277	15.788	15.778	15.795	HH	51360	501815	9.26%	0.289%
278	15.808	15.795	15.828	HH	53934	1034991	19.10%	0.596%
279	15.851	15.828	15.871	HH	86481	1702328	31.41%	0.981%
280	15.890	15.871	15.919	HH	63730	1602159	29.56%	0.923%
281	15.932	15.919	15.947	HH	53348	835455	15.42%	0.481%
282	15.959	15.947	15.966	HH	51246	596125	11.00%	0.344%
283	16.013	15.966	16.054	HH	70316	3070938	56.67%	1.770%
284	16.089	16.054	16.124	HH	59036	2243272	41.39%	1.293%
285	16.140	16.124	16.145	HH	51672	626208	11.55%	0.361%
286	16.177	16.145	16.194	HH	58442	1615741	29.81%	0.931%
287	16.212	16.194	16.233	HH	59273	1276121	23.55%	0.735%
288	16.277	16.233	16.310	HH	62538	2553065	47.11%	1.471%
289	16.320	16.310	16.336	HH	53101	837516	15.45%	0.483%
290	16.347	16.336	16.369	HH	53641	1028509	18.98%	0.593%
291	16.382	16.369	16.392	HH	52983	717490	13.24%	0.413%
292	16.408	16.392	16.428	HH	53643	1139134	21.02%	0.656%
293	16.466	16.428	16.503	HH	63922	2619431	48.33%	1.510%
294	16.523	16.503	16.543	HH	63184	1424070	26.28%	0.821%
295	16.564	16.543	16.593	HH	64559	1830427	33.78%	1.055%
296	16.606	16.593	16.612	HH	61978	720638	13.30%	0.415%
297	16.645	16.612	16.664	HH	75840	2110586	38.94%	1.216%
298	16.669	16.664	16.696	HH	75057	1269451	23.42%	0.732%
299	16.744	16.696	16.760	HH	229921	4709442	86.90%	2.714%

						rters		
300	16.770	16.760	16.807	HH	134006	2492861	46.00%	1.437%
301	16.842	16.807	16.846	HH	67639	1542986	28.47%	0.889%
302	16.871	16.846	16.890	HH	97022	2118398	39.09%	1.221%
303	16.910	16.890	16.945	HH	71228	2255284	41.61%	1.300%
304	16.957	16.945	16.963	HH	68878	722173	13.33%	0.416%
305	16.967	16.963	16.975	HH	69928	479450	8.85%	0.276%
306	16.992	16.975	17.009	HH	72448	1434864	26.48%	0.827%
307	17.064	17.009	17.090	HH	173306	4937214	91.10%	2.845%
308	17.123	17.090	17.173	HH	217175	5419455	100.00%	3.123%
309	17.223	17.173	17.244	HH	116740	3678515	67.88%	2.120%
310	17.251	17.244	17.261	HH	81280	845968	15.61%	0.488%
311	17.276	17.261	17.309	HH	86218	2306054	42.55%	1.329%
312	17.356	17.309	17.362	HH	83189	2488202	45.91%	1.434%
313	17.367	17.362	17.400	HHA	83314	1862921	34.37%	1.074%
					Sum of corrected areas:		173516839	

FG011325.M Fri Jan 31 06:08:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015254.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 14:50
Operator : YP\AJ
Sample : Q1216-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-21.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:08:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.048	2105171	16.412 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

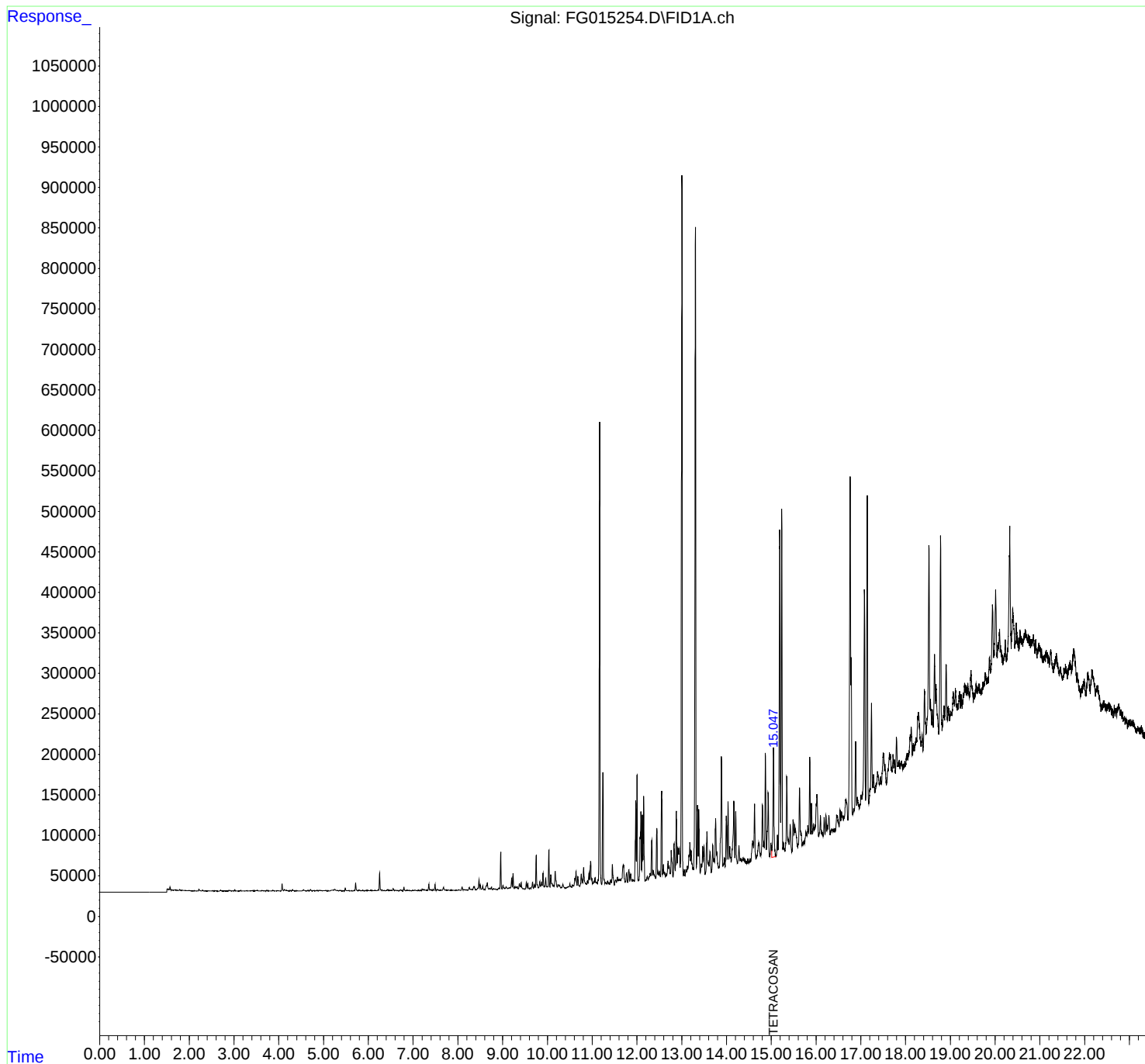
(m)=manual int.

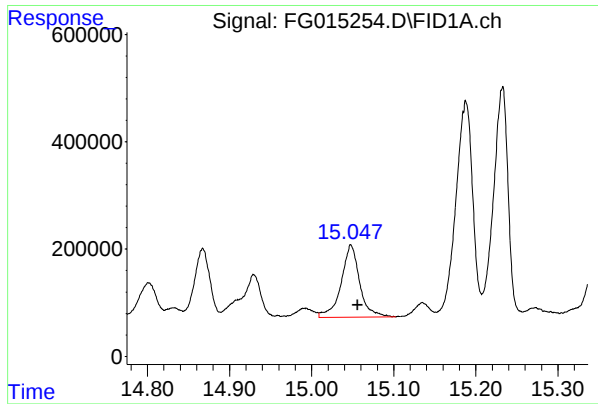
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015254.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 14:50
Operator : YP\AJ
Sample : Q1216-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-21.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:08:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.048 min
Delta R.T.: -0.008 min
Response: 2105171
Conc: 16.41 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-21.1-012825

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015254.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 14:50
 Sample : Q1216-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.365	4.350	4.383	BH	134	750	0.01%	0.000%
2	4.401	4.383	4.418	PH	129	-171	-0.00%	-0.000%
3	4.426	4.418	4.436	PH	-74	-1455	-0.01%	-0.001%
4	4.438	4.436	4.458	PH	-51	-1826	-0.02%	-0.001%
5	4.461	4.458	4.468	PH	-112	-1096	-0.01%	-0.000%
6	4.479	4.468	4.490	PH	-91	-2075	-0.02%	-0.001%
7	4.495	4.490	4.504	PH	-92	-1381	-0.01%	-0.000%
8	4.551	4.504	4.572	PH	1380	17984	0.15%	0.006%
9	4.578	4.572	4.602	HH	495	3663	0.03%	0.001%
10	4.618	4.602	4.638	PH	193	1759	0.02%	0.001%
11	4.661	4.638	4.681	HH	394	5034	0.04%	0.002%
12	4.707	4.681	4.745	PH	1668	19572	0.17%	0.007%
13	4.769	4.745	4.803	PH	495	6046	0.05%	0.002%
14	4.809	4.803	4.812	PH	-7	-165	-0.00%	-0.000%
15	4.826	4.812	4.845	PH	258	2289	0.02%	0.001%
16	4.855	4.845	4.873	HH	324	3361	0.03%	0.001%
17	4.877	4.873	4.880	PH	102	272	0.00%	0.000%
18	4.909	4.880	4.935	HH	718	11749	0.10%	0.004%
19	4.949	4.935	4.972	HH	329	4644	0.04%	0.002%
20	4.993	4.972	5.007	HH	248	3063	0.03%	0.001%
21	5.015	5.007	5.030	HH	301	3121	0.03%	0.001%
22	5.042	5.030	5.077	HH	328	4471	0.04%	0.002%
23	5.079	5.077	5.085	PH	540	411	0.00%	0.000%
24	5.094	5.085	5.116	PH	139	396	0.00%	0.000%
25	5.124	5.116	5.142	PH	-20	-1204	-0.01%	-0.000%
26	5.199	5.142	5.215	PH	948	25067	0.21%	0.009%
27	5.247	5.215	5.287	HH	2090	51222	0.44%	0.018%
28	5.298	5.287	5.317	HH	512	6009	0.05%	0.002%
29	5.326	5.317	5.342	HH	269	2629	0.02%	0.001%
30	5.362	5.342	5.411	HH	750	9951	0.09%	0.003%
31	5.423	5.411	5.444	PH	143	553	0.00%	0.000%
32	5.448	5.444	5.464	PH	73	168	0.00%	0.000%
33	5.486	5.464	5.509	PH	3095	32882	0.28%	0.012%
34	5.527	5.509	5.540	HH	311	3402	0.03%	0.001%
35	5.558	5.540	5.605	HH	460	3518	0.03%	0.001%
36	5.624	5.605	5.662	PH	157	-920	-0.01%	-0.000%

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37	5.685	5.662	5.698	PH	949	9443	0.08%	0.003%
38	5.717	5.698	5.766	HH	9877	108161	0.93%	0.038%
39	5.788	5.766	5.830	HH	1101	16962	0.15%	0.006%
40	5.845	5.830	5.855	HH	429	3515	0.03%	0.001%
41	5.875	5.855	5.905	HH	420	6873	0.06%	0.002%
42	5.932	5.905	5.962	PH	617	12313	0.11%	0.004%
43	5.975	5.962	5.982	HH	505	4374	0.04%	0.002%
44	5.997	5.982	6.037	HH	611	11158	0.10%	0.004%
45	6.047	6.037	6.064	HH	356	4745	0.04%	0.002%
46	6.072	6.064	6.084	HH	506	4462	0.04%	0.002%
47	6.095	6.084	6.115	HH	380	4510	0.04%	0.002%
48	6.129	6.115	6.139	HH	417	3865	0.03%	0.001%
49	6.155	6.139	6.183	HH	810	10572	0.09%	0.004%
50	6.197	6.183	6.202	HH	287	2337	0.02%	0.001%
51	6.219	6.202	6.232	HH	1341	15412	0.13%	0.005%
52	6.253	6.232	6.287	HH	22343	237447	2.04%	0.083%
53	6.302	6.287	6.350	HH	1277	23106	0.20%	0.008%
54	6.365	6.350	6.386	HH	395	5621	0.05%	0.002%
55	6.405	6.386	6.417	HH	490	6058	0.05%	0.002%
56	6.436	6.417	6.469	HH	1677	26417	0.23%	0.009%
57	6.489	6.469	6.502	HH	509	8368	0.07%	0.003%
58	6.510	6.502	6.528	HH	423	5065	0.04%	0.002%
59	6.556	6.528	6.592	HH	2996	43399	0.37%	0.015%
60	6.609	6.592	6.655	HH	909	19322	0.17%	0.007%
61	6.659	6.655	6.691	HH	257	2528	0.02%	0.001%
62	6.720	6.691	6.767	HH	1474	25890	0.22%	0.009%
63	6.796	6.767	6.822	HH	4586	52239	0.45%	0.018%
64	6.828	6.822	6.840	HH	512	4379	0.04%	0.002%
65	6.870	6.840	6.899	HH	731	16304	0.14%	0.006%
66	6.919	6.899	6.963	HH	544	11283	0.10%	0.004%
67	6.999	6.963	7.021	HH	573	12277	0.11%	0.004%
68	7.042	7.021	7.092	HH	1163	23628	0.20%	0.008%
69	7.125	7.092	7.146	HH	683	14238	0.12%	0.005%
70	7.166	7.146	7.185	HH	539	10096	0.09%	0.004%
71	7.206	7.185	7.222	HH	2187	29517	0.25%	0.010%
72	7.229	7.222	7.242	HH	1485	16225	0.14%	0.006%
73	7.252	7.242	7.275	HH	1378	23193	0.20%	0.008%
74	7.292	7.275	7.322	HH	1018	23629	0.20%	0.008%
75	7.353	7.322	7.374	HH	8249	96957	0.83%	0.034%
76	7.387	7.374	7.405	HH	1756	24753	0.21%	0.009%
77	7.417	7.405	7.430	HH	1046	13493	0.12%	0.005%
78	7.445	7.430	7.471	HH	1429	22764	0.20%	0.008%
79	7.491	7.471	7.521	HH	7712	87868	0.75%	0.031%
80	7.538	7.521	7.557	HH	1919	27560	0.24%	0.010%
81	7.568	7.557	7.599	HH	1170	19459	0.17%	0.007%
82	7.618	7.599	7.641	HH	1098	18468	0.16%	0.006%
83	7.681	7.641	7.719	HH	4316	85853	0.74%	0.030%
84	7.733	7.719	7.748	HH	1133	16601	0.14%	0.006%
85	7.755	7.748	7.770	HH	988	11560	0.10%	0.004%
86	7.787	7.770	7.824	HH	1171	27624	0.24%	0.010%
87	7.846	7.824	7.871	HH	1034	20872	0.18%	0.007%
88	7.898	7.871	7.935	HH	861	25511	0.22%	0.009%
89	7.959	7.935	7.985	HH	1008	21848	0.19%	0.008%

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90	7.990	7.985	7.994	HH	597	2919	0.03%	0.001%
91	8.020	7.994	8.038	HH	1286	24240	0.21%	0.009%
92	8.043	8.038	8.067	HH	878	11673	0.10%	0.004%
93	8.096	8.067	8.122	HH	4854	81381	0.70%	0.029%
94	8.127	8.122	8.145	HH	1433	17819	0.15%	0.006%
95	8.160	8.145	8.185	HH	1430	28938	0.25%	0.010%
96	8.200	8.185	8.222	HH	1308	24244	0.21%	0.009%
97	8.255	8.222	8.275	HH	4461	73972	0.63%	0.026%
98	8.286	8.275	8.317	HH	2118	45499	0.39%	0.016%
99	8.327	8.317	8.334	HH	1624	15242	0.13%	0.005%
100	8.353	8.334	8.360	HH	5104	53539	0.46%	0.019%
101	8.369	8.360	8.407	HH	5295	82466	0.71%	0.029%
102	8.448	8.407	8.454	HH	3447	60828	0.52%	0.021%
103	8.474	8.454	8.490	HH	13675	167729	1.44%	0.059%
104	8.501	8.490	8.520	HH	7624	89874	0.77%	0.032%
105	8.526	8.520	8.539	HH	2175	23466	0.20%	0.008%
106	8.557	8.539	8.606	HH	5784	111050	0.95%	0.039%
107	8.636	8.606	8.642	HH	6175	90009	0.77%	0.032%
108	8.658	8.642	8.695	HH	10095	174583	1.50%	0.061%
109	8.713	8.695	8.734	HH	3147	59365	0.51%	0.021%
110	8.751	8.734	8.774	HH	4894	69651	0.60%	0.024%
111	8.800	8.774	8.817	HH	3020	56674	0.49%	0.020%
112	8.826	8.817	8.842	HH	2244	29711	0.25%	0.010%
113	8.849	8.842	8.877	HH	1855	35995	0.31%	0.013%
114	8.916	8.877	8.935	HH	3624	87678	0.75%	0.031%
115	8.959	8.935	8.987	HH	47770	521966	4.48%	0.183%
116	9.009	8.987	9.044	HH	6857	141137	1.21%	0.050%
117	9.078	9.044	9.115	HH	5074	152262	1.31%	0.053%
118	9.127	9.115	9.141	HH	3623	48433	0.42%	0.017%
119	9.156	9.141	9.173	HH	4244	69348	0.59%	0.024%
120	9.203	9.173	9.219	HH	15433	226588	1.94%	0.080%
121	9.235	9.219	9.260	HH	21496	253338	2.17%	0.089%
122	9.276	9.260	9.291	HH	5065	73963	0.63%	0.026%
123	9.303	9.291	9.316	HH	4710	63840	0.55%	0.022%
124	9.329	9.316	9.355	HH	5209	87968	0.75%	0.031%
125	9.376	9.355	9.399	HH	8899	158276	1.36%	0.056%
126	9.415	9.399	9.464	HH	10332	190291	1.63%	0.067%
127	9.476	9.464	9.503	HH	2669	56998	0.49%	0.020%
128	9.532	9.503	9.548	HH	10376	153710	1.32%	0.054%
129	9.563	9.548	9.599	HH	9284	147381	1.26%	0.052%
130	9.615	9.599	9.632	HH	3720	62433	0.54%	0.022%
131	9.669	9.632	9.691	HH	10636	197279	1.69%	0.069%
132	9.712	9.691	9.727	HH	7800	119119	1.02%	0.042%
133	9.750	9.727	9.770	HH	43764	510153	4.37%	0.179%
134	9.776	9.770	9.802	HH	7542	105636	0.91%	0.037%
135	9.831	9.802	9.847	HH	11390	184990	1.59%	0.065%
136	9.873	9.847	9.885	HH	10941	181159	1.55%	0.064%
137	9.903	9.885	9.924	HH	21966	309165	2.65%	0.108%
138	9.934	9.924	9.945	HH	5996	69538	0.60%	0.024%
139	9.963	9.945	10.005	HH	15876	289525	2.48%	0.102%
140	10.034	10.005	10.057	HH	50489	614220	5.27%	0.216%
141	10.077	10.057	10.097	HH	19852	289800	2.49%	0.102%

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142	10.104	10.097	10.119	HH	9289	109263	0.94%	0.038%
143	10.131	10.119	10.147	HH	7007	106180	0.91%	0.037%
144	10.176	10.147	10.223	HH	24317	535025	4.59%	0.188%
145	10.240	10.223	10.261	HH	7869	147034	1.26%	0.052%
146	10.275	10.261	10.299	HH	7185	127613	1.09%	0.045%
147	10.348	10.299	10.395	HH	7745	284846	2.44%	0.100%
148	10.447	10.395	10.458	HH	4895	149509	1.28%	0.052%
149	10.472	10.458	10.486	HH	5227	81383	0.70%	0.029%
150	10.503	10.486	10.539	HH	8888	192744	1.65%	0.068%
151	10.558	10.539	10.587	HH	7497	181296	1.55%	0.064%
152	10.616	10.587	10.625	HH	15545	242578	2.08%	0.085%
153	10.640	10.625	10.662	HH	24151	360993	3.10%	0.127%
154	10.680	10.662	10.722	HH	17134	349903	3.00%	0.123%
155	10.758	10.722	10.776	HH	20938	394845	3.39%	0.139%
156	10.781	10.776	10.792	HH	12798	111447	0.96%	0.039%
157	10.810	10.792	10.849	HH	28749	551840	4.73%	0.194%
158	10.853	10.849	10.873	HH	9388	125892	1.08%	0.044%
159	10.895	10.873	10.906	HH	12602	197412	1.69%	0.069%
160	10.931	10.906	10.944	HH	21988	363554	3.12%	0.128%
161	10.964	10.944	10.984	HH	36431	586739	5.03%	0.206%
162	10.991	10.984	11.008	HH	15487	176449	1.51%	0.062%
163	11.039	11.008	11.049	HH	11949	257081	2.20%	0.090%
164	11.065	11.049	11.082	HH	16340	253270	2.17%	0.089%
165	11.096	11.082	11.116	HH	10967	197738	1.70%	0.069%
166	11.132	11.116	11.139	HH	13877	163432	1.40%	0.057%
167	11.169	11.139	11.211	HH	577186	6496631	55.71%	2.280%
168	11.239	11.211	11.282	HH	146270	1892234	16.23%	0.664%
169	11.296	11.282	11.310	HH	10671	165661	1.42%	0.058%
170	11.314	11.310	11.325	HH	9253	80296	0.69%	0.028%
171	11.345	11.325	11.365	HH	11887	244337	2.10%	0.086%
172	11.378	11.365	11.394	HH	10033	159189	1.37%	0.056%
173	11.411	11.394	11.433	HH	13563	264535	2.27%	0.093%
174	11.453	11.433	11.495	HH	32509	647584	5.55%	0.227%
175	11.524	11.495	11.542	HH	13225	312070	2.68%	0.110%
176	11.561	11.542	11.583	HH	16346	345670	2.96%	0.121%
177	11.596	11.583	11.608	HH	14316	202737	1.74%	0.071%
178	11.620	11.608	11.636	HH	14195	220100	1.89%	0.077%
179	11.693	11.636	11.737	HH	32471	1194503	10.24%	0.419%
180	11.770	11.737	11.791	HH	22052	495432	4.25%	0.174%
181	11.819	11.791	11.840	HH	26228	510154	4.37%	0.179%
182	11.861	11.840	11.886	HH	21107	439625	3.77%	0.154%
183	11.894	11.886	11.911	HH	13165	193423	1.66%	0.068%
184	11.923	11.911	11.941	HH	13278	226172	1.94%	0.079%
185	11.972	11.941	11.987	HH	111244	1462205	12.54%	0.513%
186	12.003	11.987	12.028	HH	142985	1718000	14.73%	0.603%
187	12.036	12.028	12.041	HH	13018	96387	0.83%	0.034%
188	12.070	12.041	12.074	HH	66337	727550	6.24%	0.255%
189	12.087	12.074	12.103	HH	97608	1184026	10.15%	0.415%
190	12.121	12.103	12.134	HH	93876	1135434	9.74%	0.398%
191	12.151	12.134	12.183	HH	116510	1583488	13.58%	0.556%
192	12.195	12.183	12.204	HH	13681	160973	1.38%	0.056%
193	12.229	12.204	12.250	HH	18518	432834	3.71%	0.152%
194	12.296	12.250	12.309	HH	21459	632862	5.43%	0.222%

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195	12.331	12.309	12.351	HH	62702	921575	7.90% 0.323%
196	12.361	12.351	12.420	HH	25022	819882	7.03% 0.288%
197	12.443	12.420	12.465	HH	77143	1094407	9.39% 0.384%
198	12.474	12.465	12.489	HH	23037	310865	2.67% 0.109%
199	12.504	12.489	12.521	HH	24217	415973	3.57% 0.146%
200	12.553	12.521	12.573	HH	123457	1830905	15.70% 0.642%
201	12.592	12.573	12.607	HH	32607	534028	4.58% 0.187%
202	12.619	12.607	12.638	HH	22659	390408	3.35% 0.137%
203	12.653	12.638	12.663	HH	21143	284308	2.44% 0.100%
204	12.695	12.663	12.707	HH	36737	743953	6.38% 0.261%
205	12.719	12.707	12.744	HH	29929	565262	4.85% 0.198%
206	12.766	12.744	12.806	HH	49879	1181263	10.13% 0.415%
207	12.829	12.806	12.856	HH	58140	1126349	9.66% 0.395%
208	12.879	12.856	12.899	HH	98061	1545619	13.25% 0.542%
209	12.916	12.899	12.932	HH	52437	917961	7.87% 0.322%
210	12.944	12.932	12.966	HH	52017	883157	7.57% 0.310%
211	13.005	12.966	13.037	HH	864250	11661189	100.00% 4.092%
212	13.055	13.037	13.075	HH	25999	501167	4.30% 0.176%
213	13.093	13.075	13.106	HH	26218	430607	3.69% 0.151%
214	13.127	13.106	13.137	HH	30738	516599	4.43% 0.181%
215	13.160	13.137	13.166	HH	44007	632416	5.42% 0.222%
216	13.180	13.166	13.197	HH	59511	891980	7.65% 0.313%
217	13.209	13.197	13.247	HH	49591	1132725	9.71% 0.397%
218	13.260	13.247	13.267	HH	27898	336748	2.89% 0.118%
219	13.306	13.267	13.326	HH	817809	10525036	90.26% 3.693%
220	13.351	13.326	13.366	HH	105688	1538302	13.19% 0.540%
221	13.382	13.366	13.412	HH	99093	1524780	13.08% 0.535%
222	13.434	13.412	13.447	HH	33487	598264	5.13% 0.210%
223	13.466	13.447	13.481	HH	53839	849804	7.29% 0.298%
224	13.496	13.481	13.523	HH	55000	969835	8.32% 0.340%
225	13.562	13.523	13.585	HH	73081	1519390	13.03% 0.533%
226	13.589	13.585	13.607	HH	34477	433298	3.72% 0.152%
227	13.630	13.607	13.659	HH	48340	1145650	9.82% 0.402%
228	13.691	13.659	13.708	HH	56921	1119350	9.60% 0.393%
229	13.720	13.708	13.731	HH	39630	514229	4.41% 0.180%
230	13.755	13.731	13.775	HH	89373	1615821	13.86% 0.567%
231	13.783	13.775	13.822	HH	48355	1052990	9.03% 0.370%
232	13.886	13.822	13.922	HH	164887	3893699	33.39% 1.366%
233	13.952	13.922	13.970	HH	40772	995709	8.54% 0.349%
234	13.994	13.970	14.013	HH	92582	1596535	13.69% 0.560%
235	14.033	14.013	14.052	HH	109795	1635875	14.03% 0.574%
236	14.072	14.052	14.107	HH	54548	1439751	12.35% 0.505%
237	14.164	14.107	14.185	HH	110404	3022827	25.92% 1.061%
238	14.204	14.185	14.240	HH	97862	1921156	16.47% 0.674%
239	14.276	14.240	14.300	HH	55696	1513436	12.98% 0.531%
240	14.315	14.300	14.339	HH	40026	908134	7.79% 0.319%
241	14.367	14.339	14.383	HH	40576	1006879	8.63% 0.353%
242	14.403	14.383	14.427	HH	39250	1005854	8.63% 0.353%
243	14.444	14.427	14.457	HH	36890	620452	5.32% 0.218%
244	14.474	14.457	14.492	HH	39728	785167	6.73% 0.276%
245	14.499	14.492	14.511	HH	35704	400955	3.44% 0.141%
246	14.529	14.511	14.542	HH	39407	673171	5.77% 0.236%

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247	14.585	14.542	14.605	HH	61659	1964112	16.84%	0.689%
248	14.624	14.605	14.658	HH	106952	2104296	18.05%	0.738%
249	14.675	14.658	14.681	HH	43264	568673	4.88%	0.200%
250	14.723	14.681	14.757	HH	59758	2341496	20.08%	0.822%
251	14.801	14.757	14.821	HH	104934	2562995	21.98%	0.899%
252	14.832	14.821	14.844	HH	59051	764971	6.56%	0.268%
253	14.867	14.844	14.890	HH	170116	2815462	24.14%	0.988%
254	14.930	14.890	14.955	HH	121053	2950508	25.30%	1.035%
255	14.959	14.955	14.963	HH	44865	222163	1.91%	0.078%
256	14.992	14.963	15.009	HH	58241	1387918	11.90%	0.487%
257	15.048	15.009	15.103	HH	176645	4461414	38.26%	1.566%
258	15.135	15.103	15.152	HH	69187	1606754	13.78%	0.564%
259	15.188	15.152	15.207	HH	441926	7137732	61.21%	2.505%
260	15.232	15.207	15.257	HH	469828	6577638	56.41%	2.308%
261	15.272	15.257	15.302	HH	59524	1438929	12.34%	0.505%
262	15.345	15.302	15.377	HH	141477	3523492	30.22%	1.236%
263	15.382	15.377	15.397	HH	63955	763584	6.55%	0.268%
264	15.421	15.397	15.455	HH	81507	2215989	19.00%	0.778%
265	15.486	15.455	15.505	HH	87533	2053652	17.61%	0.721%
266	15.522	15.505	15.534	HH	81605	1315741	11.28%	0.462%
267	15.543	15.534	15.587	HH	75092	2058253	17.65%	0.722%
268	15.630	15.587	15.659	HH	127532	3503326	30.04%	1.229%
269	15.668	15.659	15.695	HH	70964	1375900	11.80%	0.483%
270	15.703	15.695	15.715	HH	58879	700871	6.01%	0.246%
271	15.727	15.715	15.739	HH	59587	854633	7.33%	0.300%
272	15.772	15.739	15.783	HH	72879	1761934	15.11%	0.618%
273	15.815	15.783	15.834	HH	80697	2194071	18.82%	0.770%
274	15.859	15.834	15.878	HH	164973	2965671	25.43%	1.041%
275	15.896	15.878	15.924	HH	108185	2363159	20.27%	0.829%
276	15.942	15.924	15.957	HH	82438	1539146	13.20%	0.540%
277	15.969	15.957	15.976	HH	78020	853116	7.32%	0.299%
278	16.018	15.976	16.056	HH	119190	4509891	38.67%	1.583%
279	16.098	16.056	16.126	HH	92873	3230499	27.70%	1.134%
280	16.129	16.126	16.133	HH	72080	308945	2.65%	0.108%
281	16.137	16.133	16.158	HH	72416	1054140	9.04%	0.370%
282	16.180	16.158	16.202	HH	90464	2063599	17.70%	0.724%
283	16.220	16.202	16.241	HH	93301	1930492	16.55%	0.677%
284	16.253	16.241	16.261	HH	79784	901282	7.73%	0.316%
285	16.287	16.261	16.317	HH	92689	2747401	23.56%	0.964%
286	16.337	16.317	16.341	HH	74857	1053256	9.03%	0.370%
287	16.350	16.341	16.355	HH	76597	637944	5.47%	0.224%
288	16.359	16.355	16.372	HH	76048	785754	6.74%	0.276%
289	16.377	16.372	16.381	HH	73920	367558	3.15%	0.129%
290	16.393	16.381	16.401	HH	75903	895164	7.68%	0.314%
291	16.423	16.401	16.432	HH	76838	1379581	11.83%	0.484%
292	16.458	16.432	16.475	HH	94007	2228769	19.11%	0.782%
293	16.480	16.475	16.513	HH	92895	1973821	16.93%	0.693%
294	16.534	16.513	16.552	HH	99118	2107177	18.07%	0.739%
295	16.570	16.552	16.579	HH	97544	1489913	12.78%	0.523%
296	16.588	16.579	16.600	HH	93017	1178994	10.11%	0.414%
297	16.603	16.600	16.620	HH	90317	1066423	9.15%	0.374%
298	16.660	16.620	16.710	HH	113287	5488852	47.07%	1.926%
299	16.761	16.710	16.777	HH	510258	10210381	87.56%	3.583%

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300	16.785	16.777	16.819	HH	288234	4294720	36.83%	1.507%
301	16.852	16.819	16.857	HH	101762	2267750	19.45%	0.796%
302	16.884	16.857	16.906	HH	183944	3952648	33.90%	1.387%
303	16.917	16.906	16.962	HH	115623	3649143	31.29%	1.281%
304	16.973	16.962	16.980	HH	106594	1147240	9.84%	0.403%
305	16.984	16.980	16.987	HH	107321	433270	3.72%	0.152%
306	17.006	16.987	17.020	HH	117962	2272614	19.49%	0.798%
307	17.080	17.020	17.106	HH	367509	9778359	83.85%	3.431%
308	17.143	17.106	17.176	HH	487255	9605168	82.37%	3.371%
309	17.237	17.176	17.267	HH	231621	7924959	67.96%	2.781%
310	17.284	17.267	17.316	HH	143630	3884727	33.31%	1.363%
311	17.346	17.316	17.351	HH	132433	2680310	22.98%	0.941%
312	17.374	17.351	17.400	HHA	147291	4159010	35.67%	1.459%
					Sum of corrected areas:		284966103	

FG011325.M Fri Jan 31 06:08:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015255.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 15:19
Operator : YP\AJ
Sample : Q1216-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-21.2-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:09:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.049	1560666	12.167 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

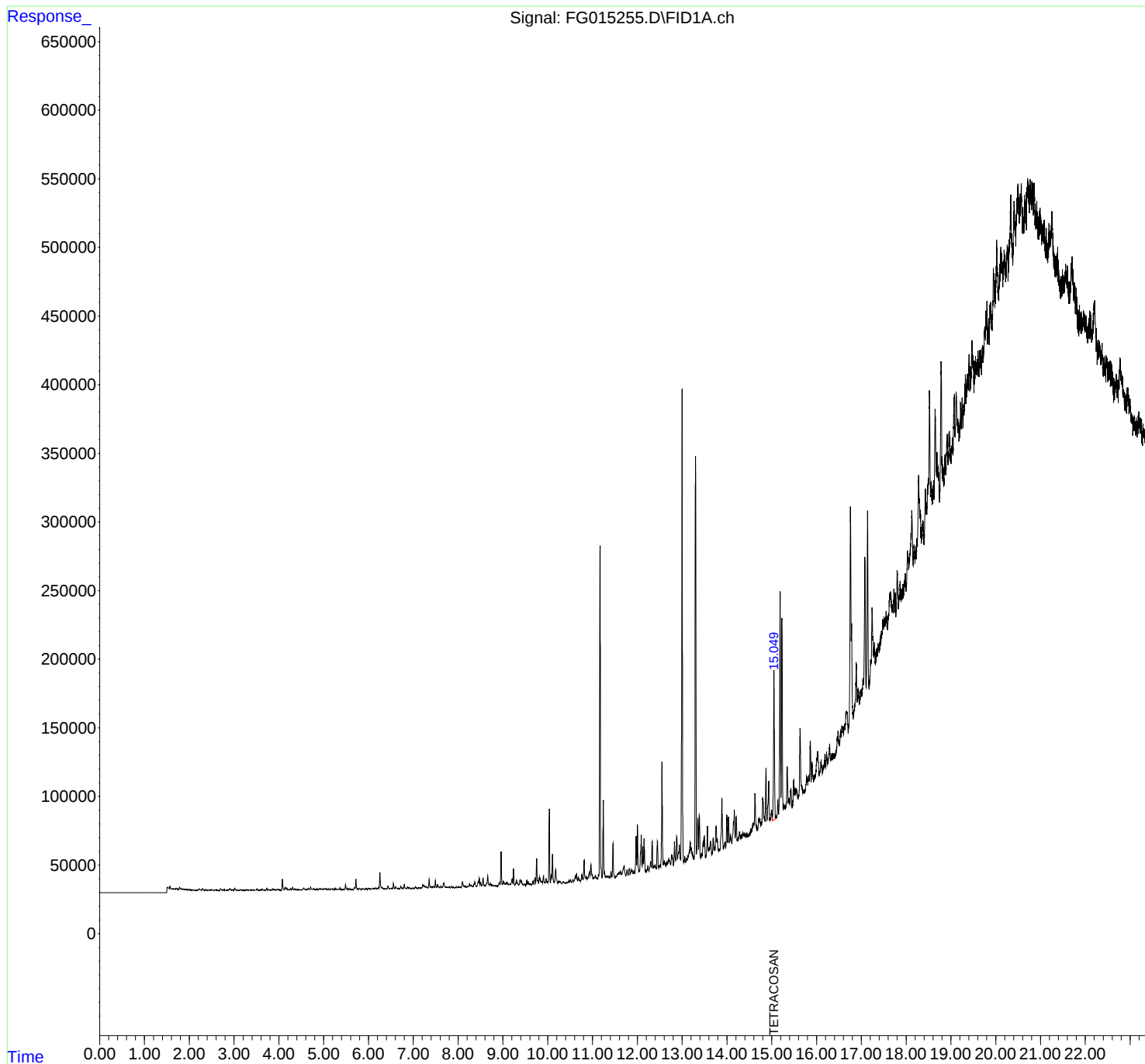
(m)=manual int.

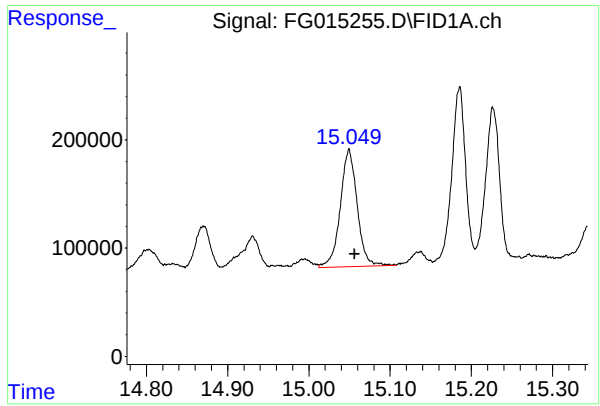
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015255.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 15:19
Operator : YP\AJ
Sample : Q1216-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-21.2-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:09:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.049 min
Delta R.T.: -0.007 min
Response: 1560666
Conc: 12.17 ug/ml

Instrument :

FID_G

ClientSampleId :

JPP-21.2-012825

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015255.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 15:19
 Sample : Q1216-09
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.363	4.350	4.385	BH	200	1079	0.01%	0.000%
2	4.405	4.385	4.428	PH	142	26	0.00%	0.000%
3	4.437	4.428	4.461	PH	1	-2411	-0.02%	-0.001%
4	4.476	4.461	4.508	PH	-17	-4762	-0.04%	-0.002%
5	4.552	4.508	4.572	PH	1181	15844	0.15%	0.006%
6	4.577	4.572	4.603	HH	435	3847	0.04%	0.002%
7	4.619	4.603	4.635	PH	323	3117	0.03%	0.001%
8	4.654	4.635	4.685	HH	675	9451	0.09%	0.004%
9	4.709	4.685	4.751	PH	1972	23847	0.22%	0.010%
10	4.770	4.751	4.811	HH	785	12188	0.11%	0.005%
11	4.827	4.811	4.841	PH	421	3960	0.04%	0.002%
12	4.855	4.841	4.884	HH	511	6866	0.06%	0.003%
13	4.907	4.884	4.937	HH	782	15431	0.14%	0.006%
14	4.949	4.937	4.974	HH	523	7259	0.07%	0.003%
15	4.988	4.974	5.000	HH	498	5186	0.05%	0.002%
16	5.016	5.000	5.033	HH	533	8415	0.08%	0.003%
17	5.049	5.033	5.076	HH	624	11012	0.10%	0.004%
18	5.077	5.076	5.083	HH	334	1082	0.01%	0.000%
19	5.098	5.083	5.111	HH	454	5187	0.05%	0.002%
20	5.126	5.111	5.146	HH	357	4582	0.04%	0.002%
21	5.178	5.146	5.215	PH	550	15102	0.14%	0.006%
22	5.225	5.215	5.237	HH	275	2543	0.02%	0.001%
23	5.255	5.237	5.283	HH	968	13675	0.13%	0.005%
24	5.298	5.283	5.318	HH	424	5962	0.05%	0.002%
25	5.330	5.318	5.344	HH	330	3603	0.03%	0.001%
26	5.363	5.344	5.406	HH	1084	13926	0.13%	0.006%
27	5.429	5.406	5.443	PH	175	1220	0.01%	0.000%
28	5.488	5.443	5.513	PH	3677	42374	0.39%	0.017%
29	5.527	5.513	5.545	HH	565	7605	0.07%	0.003%
30	5.562	5.545	5.601	HH	865	9706	0.09%	0.004%
31	5.620	5.601	5.638	PH	354	3867	0.04%	0.002%
32	5.650	5.638	5.664	PH	83	-189	-0.00%	-0.000%
33	5.688	5.664	5.703	PH	1541	20581	0.19%	0.008%
34	5.720	5.703	5.748	HH	7799	83931	0.77%	0.034%
35	5.758	5.748	5.774	HH	606	7159	0.07%	0.003%
36	5.800	5.774	5.824	HH	979	16282	0.15%	0.007%

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37	5.828	5.824	5.835	HH	294	1748	0.02%	0.001%
38	5.839	5.835	5.851	HH	291	2488	0.02%	0.001%
39	5.870	5.851	5.902	HH	1081	18745	0.17%	0.008%
40	5.941	5.902	5.967	HH	883	20925	0.19%	0.008%
41	6.002	5.967	6.037	HH	1086	28468	0.26%	0.011%
42	6.053	6.037	6.073	HH	713	11318	0.10%	0.005%
43	6.096	6.073	6.112	HH	928	16015	0.15%	0.006%
44	6.127	6.112	6.143	HH	801	12524	0.12%	0.005%
45	6.160	6.143	6.183	HH	1214	20128	0.19%	0.008%
46	6.195	6.183	6.204	HH	878	8421	0.08%	0.003%
47	6.221	6.204	6.237	HH	1601	22400	0.21%	0.009%
48	6.255	6.237	6.294	HH	12457	160465	1.48%	0.064%
49	6.306	6.294	6.338	HH	1492	27837	0.26%	0.011%
50	6.344	6.338	6.353	HH	757	5847	0.05%	0.002%
51	6.364	6.353	6.392	HH	798	14124	0.13%	0.006%
52	6.407	6.392	6.417	HH	943	11096	0.10%	0.004%
53	6.436	6.417	6.477	HH	2706	49318	0.45%	0.020%
54	6.492	6.477	6.496	HH	887	9229	0.08%	0.004%
55	6.501	6.496	6.506	HH	925	5234	0.05%	0.002%
56	6.511	6.506	6.533	HH	931	12716	0.12%	0.005%
57	6.558	6.533	6.585	HH	4371	62599	0.58%	0.025%
58	6.610	6.585	6.629	HH	1769	33847	0.31%	0.014%
59	6.633	6.629	6.655	HH	1141	15280	0.14%	0.006%
60	6.666	6.655	6.683	HH	801	12402	0.11%	0.005%
61	6.687	6.683	6.697	HH	667	4949	0.05%	0.002%
62	6.721	6.697	6.748	HH	2627	45100	0.41%	0.018%
63	6.752	6.748	6.772	HH	978	13079	0.12%	0.005%
64	6.775	6.772	6.780	HH	975	4616	0.04%	0.002%
65	6.799	6.780	6.840	HH	3715	62224	0.57%	0.025%
66	6.874	6.840	6.899	HH	2130	47060	0.43%	0.019%
67	6.913	6.899	6.942	HH	1435	28096	0.26%	0.011%
68	6.947	6.942	6.965	HH	849	10640	0.10%	0.004%
69	6.984	6.965	7.001	HH	1122	20236	0.19%	0.008%
70	7.006	7.001	7.020	HH	1023	10144	0.09%	0.004%
71	7.047	7.020	7.099	HH	1947	59434	0.55%	0.024%
72	7.126	7.099	7.146	HH	1584	34980	0.32%	0.014%
73	7.161	7.146	7.165	HH	1296	13486	0.12%	0.005%
74	7.170	7.165	7.188	HH	1389	16666	0.15%	0.007%
75	7.211	7.188	7.223	HH	3513	50391	0.46%	0.020%
76	7.233	7.223	7.248	HH	2952	40898	0.38%	0.016%
77	7.257	7.248	7.280	HH	2628	42835	0.39%	0.017%
78	7.297	7.280	7.327	HH	2143	47052	0.43%	0.019%
79	7.356	7.327	7.376	HH	7607	106823	0.98%	0.043%
80	7.392	7.376	7.406	HH	2517	38359	0.35%	0.015%
81	7.416	7.406	7.430	HH	2069	26867	0.25%	0.011%
82	7.447	7.430	7.475	HH	2689	54538	0.50%	0.022%
83	7.494	7.475	7.522	HH	6640	90186	0.83%	0.036%
84	7.541	7.522	7.560	HH	3696	57342	0.53%	0.023%
85	7.571	7.560	7.598	HH	2405	42080	0.39%	0.017%
86	7.620	7.598	7.643	HH	2414	49092	0.45%	0.020%
87	7.682	7.643	7.723	HH	4978	136214	1.25%	0.055%
88	7.737	7.723	7.753	HH	1994	32359	0.30%	0.013%
89	7.760	7.753	7.777	HH	1746	23758	0.22%	0.010%

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90	7.803	7.777	7.827	HH	2057	53201	0.49%	0.021%
91	7.850	7.827	7.877	HH	2522	57433	0.53%	0.023%
92	7.897	7.877	7.917	HH	1742	37735	0.35%	0.015%
93	7.925	7.917	7.943	HH	1594	24109	0.22%	0.010%
94	7.963	7.943	7.983	HH	2256	43189	0.40%	0.017%
95	7.988	7.983	7.995	HH	1531	11279	0.10%	0.005%
96	8.017	7.995	8.029	HH	2028	37906	0.35%	0.015%
97	8.044	8.029	8.073	HH	1912	44775	0.41%	0.018%
98	8.099	8.073	8.127	HH	5671	113652	1.05%	0.046%
99	8.133	8.127	8.150	HH	2619	34069	0.31%	0.014%
100	8.159	8.150	8.185	HH	2586	46982	0.43%	0.019%
101	8.206	8.185	8.224	HH	2361	49779	0.46%	0.020%
102	8.256	8.224	8.272	HH	3837	82881	0.76%	0.033%
103	8.289	8.272	8.320	HH	3319	78875	0.73%	0.032%
104	8.333	8.320	8.339	HH	2570	28802	0.26%	0.012%
105	8.356	8.339	8.363	HH	4329	51162	0.47%	0.021%
106	8.376	8.363	8.409	HH	5658	105504	0.97%	0.042%
107	8.450	8.409	8.461	HH	6032	123949	1.14%	0.050%
108	8.476	8.461	8.492	HH	8307	116177	1.07%	0.047%
109	8.505	8.492	8.521	HH	5538	73942	0.68%	0.030%
110	8.559	8.521	8.594	HH	8485	193684	1.78%	0.078%
111	8.598	8.594	8.615	HH	2987	35959	0.33%	0.014%
112	8.663	8.615	8.697	HH	10097	259533	2.39%	0.104%
113	8.716	8.697	8.738	HH	4916	94768	0.87%	0.038%
114	8.754	8.738	8.779	HH	3957	78361	0.72%	0.031%
115	8.805	8.779	8.820	HH	3080	70850	0.65%	0.028%
116	8.824	8.820	8.841	HH	2767	33713	0.31%	0.014%
117	8.855	8.841	8.877	HH	2891	60240	0.55%	0.024%
118	8.922	8.877	8.940	HH	5174	140644	1.29%	0.056%
119	8.962	8.940	8.983	HH	27771	327379	3.01%	0.131%
120	9.012	8.983	9.045	HH	6296	175451	1.61%	0.070%
121	9.056	9.045	9.066	HH	4372	52711	0.48%	0.021%
122	9.081	9.066	9.095	HH	5462	82294	0.76%	0.033%
123	9.104	9.095	9.123	HH	5064	73993	0.68%	0.030%
124	9.133	9.123	9.144	HH	3938	48611	0.45%	0.019%
125	9.156	9.144	9.166	HH	4092	51914	0.48%	0.021%
126	9.206	9.166	9.221	HH	7744	181190	1.67%	0.073%
127	9.238	9.221	9.266	HH	15280	216713	1.99%	0.087%
128	9.305	9.266	9.348	HH	7063	230297	2.12%	0.092%
129	9.387	9.348	9.405	HH	7433	178814	1.64%	0.072%
130	9.418	9.405	9.461	HH	6585	153427	1.41%	0.061%
131	9.480	9.461	9.505	HH	3872	92676	0.85%	0.037%
132	9.535	9.505	9.551	HH	6920	132389	1.22%	0.053%
133	9.567	9.551	9.589	HH	5958	108868	1.00%	0.044%
134	9.594	9.589	9.605	HH	3947	36540	0.34%	0.015%
135	9.618	9.605	9.638	HH	4411	78840	0.73%	0.032%
136	9.673	9.638	9.694	HH	6519	157270	1.45%	0.063%
137	9.718	9.694	9.734	HH	8604	147085	1.35%	0.059%
138	9.754	9.734	9.795	HH	22506	373870	3.44%	0.150%
139	9.813	9.795	9.826	HH	9096	131992	1.21%	0.053%
140	9.835	9.826	9.850	HH	8305	104331	0.96%	0.042%
141	9.858	9.850	9.865	HH	5864	49754	0.46%	0.020%

rteres								
142	9.874	9.865	9.888	HH	6015	79479	0.73%	0.032%
143	9.907	9.888	9.928	HH	9931	176591	1.62%	0.071%
144	9.936	9.928	9.946	HH	5357	54728	0.50%	0.022%
145	9.965	9.946	9.986	HH	7858	152169	1.40%	0.061%
146	9.996	9.986	10.006	HH	5660	63340	0.58%	0.025%
147	10.036	10.006	10.062	HH	58826	705371	6.49%	0.283%
148	10.080	10.062	10.091	HH	10639	146427	1.35%	0.059%
149	10.108	10.091	10.148	HH	26051	409329	3.76%	0.164%
150	10.178	10.148	10.227	HH	14725	390723	3.59%	0.157%
151	10.241	10.227	10.263	HH	6106	123488	1.14%	0.049%
152	10.278	10.263	10.310	HH	6095	149091	1.37%	0.060%
153	10.346	10.310	10.394	HH	5923	258357	2.38%	0.104%
154	10.400	10.394	10.404	HH	4720	27560	0.25%	0.011%
155	10.415	10.404	10.423	HH	4956	56668	0.52%	0.023%
156	10.426	10.423	10.431	HH	5023	22098	0.20%	0.009%
157	10.448	10.431	10.459	HH	5409	88866	0.82%	0.036%
158	10.471	10.459	10.490	HH	6460	108717	1.00%	0.044%
159	10.507	10.490	10.523	HH	7113	128777	1.18%	0.052%
160	10.528	10.523	10.543	HH	5934	69356	0.64%	0.028%
161	10.562	10.543	10.584	HH	7342	159282	1.46%	0.064%
162	10.617	10.584	10.631	HH	9960	228504	2.10%	0.092%
163	10.645	10.631	10.668	HH	11464	200975	1.85%	0.081%
164	10.685	10.668	10.703	HH	8906	165547	1.52%	0.066%
165	10.712	10.703	10.736	HH	6979	129928	1.19%	0.052%
166	10.762	10.736	10.793	HH	10897	291828	2.68%	0.117%
167	10.814	10.793	10.854	HH	21622	445951	4.10%	0.179%
168	10.868	10.854	10.885	HH	9550	160233	1.47%	0.064%
169	10.933	10.885	10.946	HH	12791	372407	3.42%	0.149%
170	10.968	10.946	11.010	HH	18167	476694	4.38%	0.191%
171	11.039	11.010	11.051	HH	9158	208741	1.92%	0.084%
172	11.066	11.051	11.083	HH	10809	180360	1.66%	0.072%
173	11.095	11.083	11.116	HH	8683	168230	1.55%	0.067%
174	11.135	11.116	11.142	HH	11201	147557	1.36%	0.059%
175	11.168	11.142	11.214	HH	250339	2901285	26.68%	1.163%
176	11.241	11.214	11.263	HH	65330	864931	7.95%	0.347%
177	11.270	11.263	11.288	HH	12518	163687	1.51%	0.066%
178	11.297	11.288	11.304	HH	9718	93035	0.86%	0.037%
179	11.313	11.304	11.332	HH	9696	154720	1.42%	0.062%
180	11.346	11.332	11.368	HH	9914	205075	1.89%	0.082%
181	11.384	11.368	11.396	HH	9322	148347	1.36%	0.059%
182	11.414	11.396	11.434	HH	13156	251209	2.31%	0.101%
183	11.458	11.434	11.503	HH	33641	645751	5.94%	0.259%
184	11.528	11.503	11.541	HH	9926	211496	1.95%	0.085%
185	11.563	11.541	11.576	HH	11732	233978	2.15%	0.094%
186	11.594	11.576	11.608	HH	12787	230244	2.12%	0.092%
187	11.624	11.608	11.653	HH	13778	330599	3.04%	0.133%
188	11.707	11.653	11.743	HH	17398	735239	6.76%	0.295%
189	11.774	11.743	11.795	HH	14448	375933	3.46%	0.151%
190	11.821	11.795	11.843	HH	15120	368019	3.38%	0.148%
191	11.863	11.843	11.874	HH	14636	245461	2.26%	0.098%
192	11.885	11.874	11.909	HH	14232	273491	2.52%	0.110%
193	11.925	11.909	11.947	HH	13551	282013	2.59%	0.113%
194	11.974	11.947	11.989	HH	38929	585313	5.38%	0.235%

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195	12.005	11.989	12.031	HH	47224	692303	6.37%	0.277%
196	12.089	12.031	12.107	HH	39503	1018793	9.37%	0.408%
197	12.123	12.107	12.138	HH	31379	448986	4.13%	0.180%
198	12.154	12.138	12.184	HH	37376	643993	5.92%	0.258%
199	12.200	12.184	12.208	HH	14387	200173	1.84%	0.080%
200	12.237	12.208	12.260	HH	17736	470819	4.33%	0.189%
201	12.299	12.260	12.315	HH	20387	561071	5.16%	0.225%
202	12.333	12.315	12.357	HH	35300	594206	5.46%	0.238%
203	12.392	12.357	12.422	HH	17852	650284	5.98%	0.261%
204	12.447	12.422	12.471	HH	35122	678300	6.24%	0.272%
205	12.479	12.471	12.489	HH	17137	183897	1.69%	0.074%
206	12.509	12.489	12.523	HH	18185	353448	3.25%	0.142%
207	12.552	12.523	12.578	HH	93224	1429037	13.14%	0.573%
208	12.598	12.578	12.638	HH	20538	690859	6.35%	0.277%
209	12.655	12.638	12.668	HH	20108	345109	3.17%	0.138%
210	12.699	12.668	12.709	HH	22396	498105	4.58%	0.200%
211	12.721	12.709	12.748	HH	21296	454757	4.18%	0.182%
212	12.770	12.748	12.778	HH	25175	411000	3.78%	0.165%
213	12.785	12.778	12.808	HH	23668	377353	3.47%	0.151%
214	12.829	12.808	12.856	HH	35150	735250	6.76%	0.295%
215	12.879	12.856	12.898	HH	39053	759023	6.98%	0.304%
216	12.918	12.898	12.926	HH	27580	425004	3.91%	0.170%
217	12.942	12.926	12.969	HH	32359	701000	6.45%	0.281%
218	13.000	12.969	13.037	HH	363293	4704674	43.27%	1.886%
219	13.058	13.037	13.080	HH	24089	560589	5.16%	0.225%
220	13.097	13.080	13.107	HH	22738	351561	3.23%	0.141%
221	13.131	13.107	13.143	HH	25160	515632	4.74%	0.207%
222	13.183	13.143	13.197	HH	34593	922170	8.48%	0.370%
223	13.206	13.197	13.228	HH	30345	519000	4.77%	0.208%
224	13.233	13.228	13.267	HH	25913	566492	5.21%	0.227%
225	13.299	13.267	13.322	HH	315859	4032155	37.08%	1.616%
226	13.351	13.322	13.367	HH	51741	1024276	9.42%	0.411%
227	13.384	13.367	13.415	HH	54016	1024935	9.43%	0.411%
228	13.441	13.415	13.450	HH	26213	523050	4.81%	0.210%
229	13.470	13.450	13.481	HH	34905	562578	5.17%	0.225%
230	13.497	13.481	13.521	HH	39003	767630	7.06%	0.308%
231	13.563	13.521	13.584	HH	46342	1214961	11.17%	0.487%
232	13.602	13.584	13.611	HH	30054	469698	4.32%	0.188%
233	13.637	13.611	13.667	HH	35349	1022047	9.40%	0.410%
234	13.693	13.667	13.718	HH	37864	969152	8.91%	0.388%
235	13.725	13.718	13.734	HH	30818	279233	2.57%	0.112%
236	13.758	13.734	13.777	HH	45891	968822	8.91%	0.388%
237	13.784	13.777	13.827	HH	36844	950758	8.74%	0.381%
238	13.831	13.827	13.840	HH	29492	231462	2.13%	0.093%
239	13.887	13.840	13.921	HH	66571	2021497	18.59%	0.810%
240	13.956	13.921	13.973	HH	34782	1013734	9.32%	0.406%
241	13.997	13.973	14.017	HH	54604	1102201	10.14%	0.442%
242	14.036	14.017	14.056	HH	52953	995971	9.16%	0.399%
243	14.077	14.056	14.110	HH	40006	1190194	10.95%	0.477%
244	14.165	14.110	14.185	HH	57665	2035219	18.72%	0.816%
245	14.206	14.185	14.242	HH	53004	1424170	13.10%	0.571%
246	14.279	14.242	14.302	HH	42323	1386256	12.75%	0.556%

rteres								
247	14.321	14.302	14.338	HH	39425	834243	7.67%	0.334%
248	14.355	14.338	14.388	HH	41249	1200661	11.04%	0.481%
249	14.407	14.388	14.413	HH	40743	596888	5.49%	0.239%
250	14.417	14.413	14.431	HH	40431	433078	3.98%	0.174%
251	14.447	14.431	14.466	HH	41303	825875	7.60%	0.331%
252	14.476	14.466	14.492	HH	40066	609667	5.61%	0.244%
253	14.509	14.492	14.519	HH	41404	654573	6.02%	0.262%
254	14.535	14.519	14.552	HH	44560	854171	7.86%	0.342%
255	14.590	14.552	14.598	HH	48588	1282236	11.79%	0.514%
256	14.602	14.598	14.606	HH	48526	218996	2.01%	0.088%
257	14.625	14.606	14.669	HH	69842	2019968	18.58%	0.810%
258	14.675	14.669	14.685	HH	44382	417569	3.84%	0.167%
259	14.708	14.685	14.763	HH	51817	2296666	21.12%	0.921%
260	14.803	14.763	14.824	HH	66260	2049453	18.85%	0.821%
261	14.833	14.824	14.847	HH	53702	729687	6.71%	0.292%
262	14.870	14.847	14.893	HH	87841	1852521	17.04%	0.743%
263	14.931	14.893	14.952	HH	79158	2182271	20.07%	0.875%
264	14.955	14.952	14.958	HH	51860	206506	1.90%	0.083%
265	14.963	14.958	14.977	HH	52105	566852	5.21%	0.227%
266	14.995	14.977	15.013	HH	58053	1178348	10.84%	0.472%
267	15.049	15.013	15.107	HH	159356	4464205	41.06%	1.789%
268	15.137	15.107	15.153	HH	64603	1610666	14.81%	0.646%
269	15.186	15.153	15.205	HH	217090	3599558	33.10%	1.443%
270	15.227	15.205	15.263	HH	197154	3650169	33.57%	1.463%
271	15.271	15.263	15.308	HH	62392	1644587	15.12%	0.659%
272	15.345	15.308	15.372	HH	89751	2691750	24.76%	1.079%
273	15.374	15.372	15.377	HH	64590	213833	1.97%	0.086%
274	15.386	15.377	15.402	HH	66623	947595	8.71%	0.380%
275	15.427	15.402	15.458	HH	74062	2261201	20.80%	0.906%
276	15.488	15.458	15.513	HH	79410	2298217	21.14%	0.921%
277	15.521	15.513	15.536	HH	73649	1004155	9.24%	0.402%
278	15.547	15.536	15.562	HH	73239	1083908	9.97%	0.434%
279	15.565	15.562	15.589	HH	72210	1115101	10.26%	0.447%
280	15.632	15.589	15.660	HH	116163	3622261	33.31%	1.452%
281	15.664	15.660	15.694	HH	75703	1510081	13.89%	0.605%
282	15.698	15.694	15.724	HH	72466	1285665	11.82%	0.515%
283	15.777	15.724	15.795	HH	82319	3233795	29.74%	1.296%
284	15.798	15.795	15.805	HH	79927	474820	4.37%	0.190%
285	15.820	15.805	15.838	HH	82455	1607746	14.79%	0.644%
286	15.861	15.838	15.882	HH	107761	2395146	22.03%	0.960%
287	15.899	15.882	15.932	HH	92955	2584514	23.77%	1.036%
288	15.947	15.932	15.959	HH	83002	1308812	12.04%	0.525%
289	15.963	15.959	15.971	HH	83145	591141	5.44%	0.237%
290	16.022	15.971	16.026	HH	100714	3006743	27.65%	1.205%
291	16.031	16.026	16.056	HH	100053	1650588	15.18%	0.662%
292	16.102	16.056	16.132	HH	94069	4007714	36.86%	1.606%
293	16.151	16.132	16.158	HH	89532	1411197	12.98%	0.566%
294	16.187	16.158	16.204	HH	98691	2510170	23.09%	1.006%
295	16.224	16.204	16.247	HH	100620	2503072	23.02%	1.003%
296	16.255	16.247	16.259	HH	95450	669843	6.16%	0.268%
297	16.292	16.259	16.322	HH	105397	3697402	34.00%	1.482%
298	16.341	16.322	16.348	HH	98260	1493128	13.73%	0.598%
299	16.355	16.348	16.362	HH	96699	818523	7.53%	0.328%

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300	16.366	16.362	16.382	HH	99317	1169240	10.75%	0.469%
301	16.392	16.382	16.404	HH	98837	1311752	12.06%	0.526%
302	16.408	16.404	16.418	HH	98384	827882	7.61%	0.332%
303	16.479	16.418	16.497	HH	114661	4971132	45.72%	1.993%
304	16.502	16.497	16.516	HH	107877	1224992	11.27%	0.491%
305	16.538	16.516	16.552	HH	115633	2401407	22.09%	0.963%
306	16.567	16.552	16.573	HH	117176	1502873	13.82%	0.602%
307	16.578	16.573	16.589	HH	119108	1115447	10.26%	0.447%
308	16.594	16.589	16.604	HH	116602	1017772	9.36%	0.408%
309	16.622	16.604	16.632	HH	119449	1996385	18.36%	0.800%
310	16.675	16.632	16.705	HH	130199	5452423	50.14%	2.185%
311	16.755	16.705	16.774	HH	278412	7270486	66.87%	2.914%
312	16.782	16.774	16.820	HH	192967	4126975	37.95%	1.654%
313	16.884	16.820	16.908	HH	165132	7409754	68.15%	2.970%
314	16.926	16.908	16.953	HH	145923	3787508	34.83%	1.518%
315	16.959	16.953	16.963	HH	138018	892059	8.20%	0.358%
316	16.983	16.963	16.991	HH	145420	2331651	21.44%	0.935%
317	17.000	16.991	17.019	HH	144867	2435308	22.40%	0.976%
318	17.041	17.019	17.046	HH	152989	2378697	21.88%	0.953%
319	17.077	17.046	17.110	HH	240044	7017875	64.54%	2.813%
320	17.139	17.110	17.174	HH	273328	7361305	67.70%	2.951%
321	17.239	17.174	17.279	HH	205312	10873359	100.00%	4.358%
322	17.292	17.279	17.316	HH	179744	3772187	34.69%	1.512%
323	17.339	17.316	17.345	HH	173701	2978413	27.39%	1.194%
324	17.355	17.345	17.359	HH	174578	1475889	13.57%	0.592%
325	17.374	17.359	17.380	HH	178510	2187848	20.12%	0.877%
326	17.383	17.380	17.400	HHA	178040	2161266	19.88%	0.866%
					Sum of corrected areas:	249490292		

FG011325.M Fri Jan 31 06:09:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015256.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 15:47
Operator : YP\AJ
Sample : Q1216-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:09:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.061	4112636	32.061 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

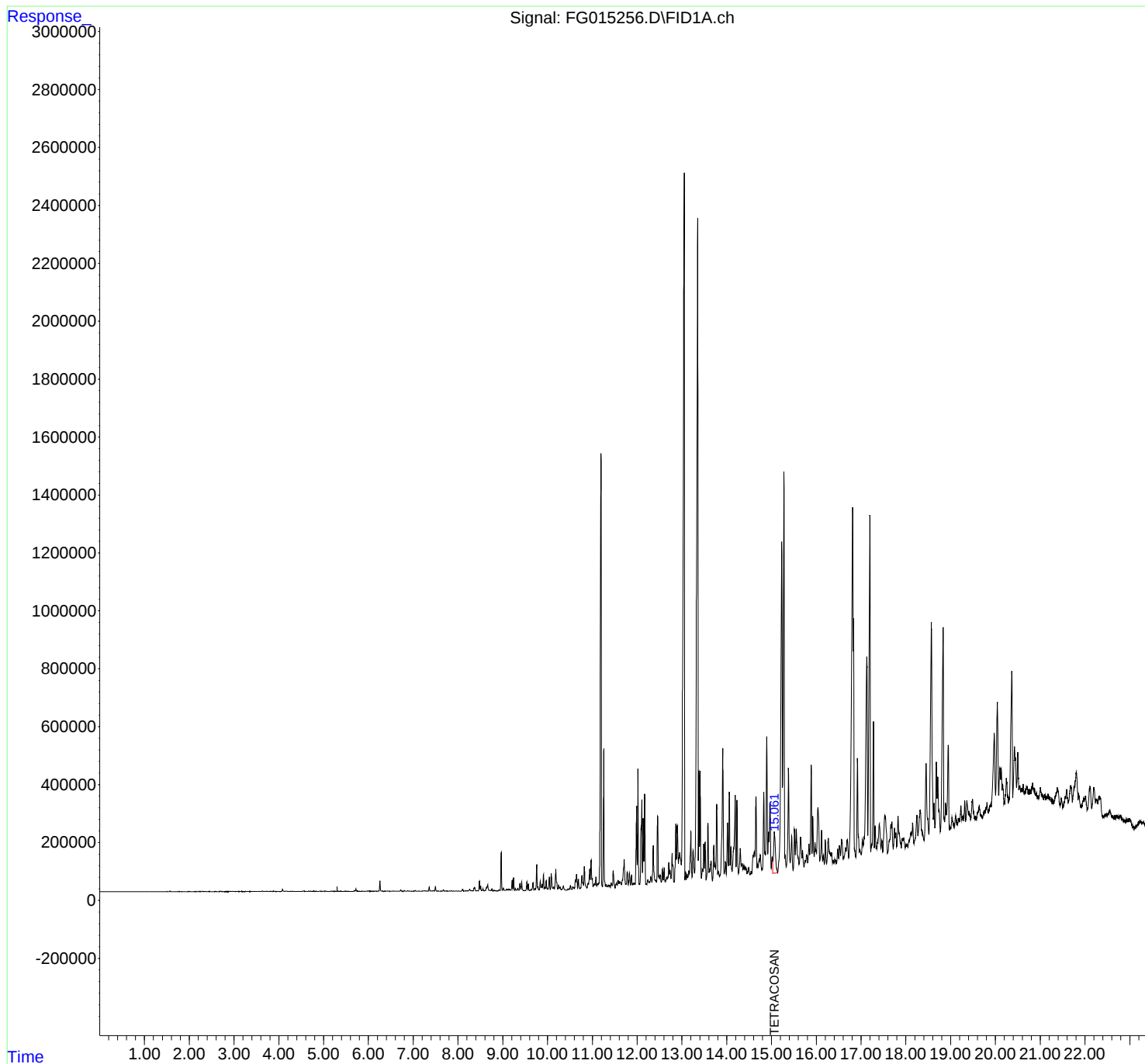
(m)=manual int.

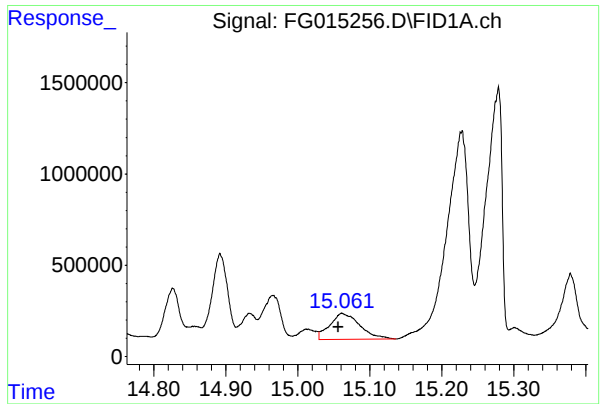
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015256.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 15:47
Operator : YP\AJ
Sample : Q1216-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.1-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:09:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.061 min
Delta R.T.: 0.005 min
Response: 4112636
Conc: 32.06 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-26.1-012825

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
 Data File : FG015256.D
 Signal(s) : FID1A.ch
 Acq On : 30 Jan 2025 15:47
 Sample : Q1216-13
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.397	4.350	4.405	BH	-170	-2343	-0.00%	-0.000%
2	4.432	4.405	4.462	PH	131	-3673	-0.01%	-0.001%
3	4.482	4.462	4.494	PH	89	-947	-0.00%	-0.000%
4	4.497	4.494	4.512	PH	6	-719	-0.00%	-0.000%
5	4.545	4.512	4.573	PH	1630	26931	0.06%	0.004%
6	4.578	4.573	4.599	HH	407	3006	0.01%	0.000%
7	4.617	4.599	4.631	PH	291	1941	0.00%	0.000%
8	4.668	4.631	4.684	PH	1534	16727	0.03%	0.002%
9	4.711	4.684	4.743	HH	1292	18437	0.04%	0.003%
10	4.772	4.743	4.810	HH	1273	20605	0.04%	0.003%
11	4.828	4.810	4.847	PH	1378	13585	0.03%	0.002%
12	4.852	4.847	4.867	HH	277	1511	0.00%	0.000%
13	4.887	4.867	4.894	PH	249	2276	0.00%	0.000%
14	4.910	4.894	4.920	HH	807	8469	0.02%	0.001%
15	4.931	4.920	4.940	HH	829	7802	0.02%	0.001%
16	4.947	4.940	4.974	HH	548	7860	0.02%	0.001%
17	4.986	4.974	5.001	HH	612	7916	0.02%	0.001%
18	5.007	5.001	5.021	HH	620	5665	0.01%	0.001%
19	5.053	5.021	5.095	HH	965	18853	0.04%	0.003%
20	5.098	5.095	5.111	PH	100	608	0.00%	0.000%
21	5.126	5.111	5.146	PH	220	1611	0.00%	0.000%
22	5.173	5.146	5.210	PH	1276	24321	0.05%	0.004%
23	5.222	5.210	5.240	HH	575	6471	0.01%	0.001%
24	5.256	5.240	5.282	HH	484	6734	0.01%	0.001%
25	5.303	5.282	5.318	PH	14508	20532	0.04%	0.003%
26	5.329	5.318	5.342	HH	490	4829	0.01%	0.001%
27	5.367	5.342	5.380	HH	825	10912	0.02%	0.002%
28	5.386	5.380	5.412	HH	423	2601	0.01%	0.000%
29	5.434	5.412	5.443	PH	94	309	0.00%	0.000%
30	5.463	5.443	5.474	PH	403	4251	0.01%	0.001%
31	5.490	5.474	5.514	HH	1605	17778	0.04%	0.003%
32	5.527	5.514	5.541	HH	380	3915	0.01%	0.001%
33	5.561	5.541	5.577	HH	473	6206	0.01%	0.001%
34	5.587	5.577	5.607	PH	219	1239	0.00%	0.000%
35	5.624	5.607	5.644	PH	193	1394	0.00%	0.000%
36	5.651	5.644	5.670	PH	106	-193	-0.00%	-0.000%

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37	5.688	5.670	5.705	PH	3483	39789	0.08%	0.006%
38	5.721	5.705	5.753	HH	9075	93674	0.19%	0.014%
39	5.763	5.753	5.785	HH	486	5058	0.01%	0.001%
40	5.789	5.785	5.802	HH	145	1091	0.00%	0.000%
41	5.811	5.802	5.830	HH	825	2402	0.00%	0.000%
42	5.847	5.830	5.854	HH	359	3412	0.01%	0.001%
43	5.873	5.854	5.907	HH	1064	18726	0.04%	0.003%
44	5.958	5.907	5.967	HH	1111	21241	0.04%	0.003%
45	5.981	5.967	5.988	HH	1359	14056	0.03%	0.002%
46	5.999	5.988	6.039	HH	1471	26202	0.05%	0.004%
47	6.057	6.039	6.084	HH	881	13178	0.03%	0.002%
48	6.101	6.084	6.118	HH	805	9870	0.02%	0.001%
49	6.128	6.118	6.142	HH	528	5811	0.01%	0.001%
50	6.159	6.142	6.184	HH	1837	23667	0.05%	0.003%
51	6.196	6.184	6.206	HH	704	7345	0.02%	0.001%
52	6.222	6.206	6.237	HH	1531	18987	0.04%	0.003%
53	6.258	6.237	6.295	HH	36718	378956	0.77%	0.056%
54	6.309	6.295	6.339	HH	2283	32634	0.07%	0.005%
55	6.368	6.339	6.392	HH	1269	23422	0.05%	0.003%
56	6.410	6.392	6.420	HH	1041	13658	0.03%	0.002%
57	6.437	6.420	6.473	HH	1812	33534	0.07%	0.005%
58	6.489	6.473	6.500	HH	723	9832	0.02%	0.001%
59	6.513	6.500	6.536	HH	977	16502	0.03%	0.002%
60	6.560	6.536	6.582	HH	1969	29845	0.06%	0.004%
61	6.609	6.582	6.620	HH	907	16205	0.03%	0.002%
62	6.634	6.620	6.654	HH	913	15429	0.03%	0.002%
63	6.666	6.654	6.694	HH	683	12920	0.03%	0.002%
64	6.723	6.694	6.773	HH	4864	75876	0.16%	0.011%
65	6.801	6.773	6.823	HH	3568	45128	0.09%	0.007%
66	6.843	6.823	6.860	HH	1005	17240	0.04%	0.003%
67	6.878	6.860	6.905	HH	2627	36613	0.07%	0.005%
68	6.917	6.905	6.943	HH	1313	20170	0.04%	0.003%
69	6.950	6.943	6.963	HH	586	6147	0.01%	0.001%
70	6.972	6.963	6.983	HH	528	5783	0.01%	0.001%
71	7.007	6.983	7.025	HH	1259	19005	0.04%	0.003%
72	7.047	7.025	7.083	HH	3385	51402	0.11%	0.008%
73	7.091	7.083	7.101	HH	869	7631	0.02%	0.001%
74	7.127	7.101	7.150	HH	1516	28993	0.06%	0.004%
75	7.161	7.150	7.177	HH	802	11469	0.02%	0.002%
76	7.218	7.177	7.231	HH	2072	39136	0.08%	0.006%
77	7.241	7.231	7.247	HH	1748	15875	0.03%	0.002%
78	7.260	7.247	7.280	HH	2246	35699	0.07%	0.005%
79	7.298	7.280	7.329	HH	2052	42082	0.09%	0.006%
80	7.359	7.329	7.383	HH	16060	188011	0.38%	0.028%
81	7.401	7.383	7.429	HH	2183	49063	0.10%	0.007%
82	7.449	7.429	7.477	HH	3311	55141	0.11%	0.008%
83	7.497	7.477	7.529	HH	17483	192058	0.39%	0.028%
84	7.551	7.529	7.597	HH	1481	48056	0.10%	0.007%
85	7.603	7.597	7.610	HH	1005	7425	0.02%	0.001%
86	7.621	7.610	7.650	HH	1237	27513	0.06%	0.004%
87	7.675	7.650	7.709	HH	5934	89035	0.18%	0.013%
88	7.733	7.709	7.751	HH	1644	33507	0.07%	0.005%
89	7.763	7.751	7.782	HH	1394	21781	0.04%	0.003%

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90	7.804	7.782	7.824	HH	1465	29710	0.06%	0.004%
91	7.852	7.824	7.880	HH	2945	53967	0.11%	0.008%
92	7.903	7.880	7.920	HH	1510	27616	0.06%	0.004%
93	7.964	7.920	7.986	HH	2069	52243	0.11%	0.008%
94	8.011	7.986	8.040	HH	1632	38942	0.08%	0.006%
95	8.048	8.040	8.073	HH	1230	22858	0.05%	0.003%
96	8.102	8.073	8.150	HH	8041	148456	0.30%	0.022%
97	8.174	8.150	8.191	HH	2160	45914	0.09%	0.007%
98	8.205	8.191	8.223	HH	2233	36074	0.07%	0.005%
99	8.261	8.223	8.295	HH	8057	161896	0.33%	0.024%
100	8.312	8.295	8.340	HH	3355	68953	0.14%	0.010%
101	8.360	8.340	8.367	HH	11727	121773	0.25%	0.018%
102	8.375	8.367	8.413	HH	12507	161687	0.33%	0.024%
103	8.436	8.413	8.453	HH	2591	52746	0.11%	0.008%
104	8.480	8.453	8.496	HH	35835	412559	0.84%	0.061%
105	8.509	8.496	8.529	HH	19892	215009	0.44%	0.032%
106	8.561	8.529	8.586	HH	8960	161888	0.33%	0.024%
107	8.601	8.586	8.615	HH	3135	47091	0.10%	0.007%
108	8.639	8.615	8.644	HH	14431	163812	0.33%	0.024%
109	8.665	8.644	8.705	HH	22995	413982	0.85%	0.061%
110	8.718	8.705	8.739	HH	4025	69341	0.14%	0.010%
111	8.758	8.739	8.787	HH	9664	132649	0.27%	0.019%
112	8.807	8.787	8.825	HH	5116	76868	0.16%	0.011%
113	8.841	8.825	8.862	HH	2584	52063	0.11%	0.008%
114	8.870	8.862	8.885	HH	2084	28518	0.06%	0.004%
115	8.918	8.885	8.942	HH	6189	123673	0.25%	0.018%
116	8.967	8.942	8.995	HH	135247	1413593	2.89%	0.207%
117	9.015	8.995	9.057	HH	12202	224553	0.46%	0.033%
118	9.085	9.057	9.096	HH	7436	124082	0.25%	0.018%
119	9.106	9.096	9.122	HH	6550	84559	0.17%	0.012%
120	9.138	9.122	9.150	HH	8200	108880	0.22%	0.016%
121	9.159	9.150	9.179	HH	6503	94002	0.19%	0.014%
122	9.211	9.179	9.227	HH	38661	503438	1.03%	0.074%
123	9.243	9.227	9.267	HH	47867	544250	1.11%	0.080%
124	9.283	9.267	9.299	HH	9858	127276	0.26%	0.019%
125	9.336	9.299	9.360	HH	10913	223590	0.46%	0.033%
126	9.383	9.360	9.405	HH	26772	381976	0.78%	0.056%
127	9.424	9.405	9.469	HH	32922	450348	0.92%	0.066%
128	9.487	9.469	9.507	HH	3380	68488	0.14%	0.010%
129	9.540	9.507	9.557	HH	33390	424300	0.87%	0.062%
130	9.572	9.557	9.606	HH	25866	320306	0.65%	0.047%
131	9.623	9.606	9.639	HH	6782	97755	0.20%	0.014%
132	9.676	9.639	9.699	HH	30668	485257	0.99%	0.071%
133	9.719	9.699	9.735	HH	10455	160735	0.33%	0.024%
134	9.759	9.735	9.778	HH	92087	1063029	2.17%	0.156%
135	9.785	9.778	9.812	HH	16170	210736	0.43%	0.031%
136	9.839	9.812	9.856	HH	35583	482861	0.99%	0.071%
137	9.882	9.856	9.894	HH	25066	397721	0.81%	0.058%
138	9.911	9.894	9.932	HH	57998	732328	1.50%	0.107%
139	9.942	9.932	9.952	HH	13401	144620	0.30%	0.021%
140	9.971	9.952	10.012	HH	37448	620213	1.27%	0.091%
141	10.041	10.012	10.064	HH	49952	694046	1.42%	0.102%

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142	10.085	10.064	10.123	HH	61245	957739	1.96%	0.140%
143	10.138	10.123	10.154	HH	15298	225485	0.46%	0.033%
144	10.186	10.154	10.229	HH	76755	1464915	2.99%	0.215%
145	10.248	10.229	10.268	HH	21318	334498	0.68%	0.049%
146	10.283	10.268	10.308	HH	15056	254829	0.52%	0.037%
147	10.353	10.308	10.426	HH	18540	595441	1.22%	0.087%
148	10.453	10.426	10.466	HH	8421	153675	0.31%	0.023%
149	10.485	10.466	10.492	HH	8132	116248	0.24%	0.017%
150	10.511	10.492	10.530	HH	20766	300873	0.61%	0.044%
151	10.535	10.530	10.546	HH	7984	73357	0.15%	0.011%
152	10.565	10.546	10.599	HH	16559	385024	0.79%	0.056%
153	10.623	10.599	10.634	HH	40186	570975	1.17%	0.084%
154	10.649	10.634	10.672	HH	59645	840250	1.72%	0.123%
155	10.690	10.672	10.729	HH	41947	693286	1.42%	0.102%
156	10.768	10.729	10.785	HH	54550	970686	1.98%	0.142%
157	10.790	10.785	10.803	HH	29552	286544	0.59%	0.042%
158	10.823	10.803	10.878	HH	86738	1563623	3.20%	0.229%
159	10.906	10.878	10.915	HH	28505	454654	0.93%	0.067%
160	10.941	10.915	10.954	HH	75782	1154346	2.36%	0.169%
161	10.974	10.954	10.994	HH	108268	1696734	3.47%	0.249%
162	11.001	10.994	11.018	HH	44363	495880	1.01%	0.073%
163	11.048	11.018	11.060	HH	27105	579919	1.19%	0.085%
164	11.080	11.060	11.099	HH	49646	777619	1.59%	0.114%
165	11.113	11.099	11.129	HH	27216	437297	0.89%	0.064%
166	11.193	11.129	11.224	HH	1505160	20242655	41.37%	2.969%
167	11.257	11.224	11.292	HH	492256	5660480	11.57%	0.830%
168	11.304	11.292	11.320	HH	23992	339266	0.69%	0.050%
169	11.328	11.320	11.335	HH	17181	145697	0.30%	0.021%
170	11.353	11.335	11.375	HH	22603	482378	0.99%	0.071%
171	11.387	11.375	11.404	HH	21162	315667	0.65%	0.046%
172	11.422	11.404	11.443	HH	29041	522274	1.07%	0.077%
173	11.466	11.443	11.507	HH	71014	1371990	2.80%	0.201%
174	11.540	11.507	11.555	HH	28966	651487	1.33%	0.096%
175	11.576	11.555	11.597	HH	38858	795923	1.63%	0.117%
176	11.615	11.597	11.651	HH	33817	975004	1.99%	0.143%
177	11.712	11.651	11.747	HH	110365	3050114	6.23%	0.447%
178	11.780	11.747	11.803	HH	66068	1330104	2.72%	0.195%
179	11.830	11.803	11.853	HH	62831	1190916	2.43%	0.175%
180	11.874	11.853	11.896	HH	56826	953172	1.95%	0.140%
181	11.911	11.896	11.925	HH	28643	448480	0.92%	0.066%
182	11.940	11.925	11.955	HH	29145	499302	1.02%	0.073%
183	11.987	11.955	12.002	HH	295993	3923100	8.02%	0.575%
184	12.019	12.002	12.057	HH	419825	5055636	10.33%	0.742%
185	12.105	12.057	12.120	HH	316766	5947726	12.16%	0.872%
186	12.136	12.120	12.150	HH	252703	3048470	6.23%	0.447%
187	12.168	12.150	12.198	HH	335257	4248505	8.68%	0.623%
188	12.207	12.198	12.217	HH	25788	292973	0.60%	0.043%
189	12.242	12.217	12.265	HH	40155	952582	1.95%	0.140%
190	12.279	12.265	12.285	HH	34097	393113	0.80%	0.058%
191	12.305	12.285	12.329	HH	51439	1104038	2.26%	0.162%
192	12.359	12.329	12.410	HH	159033	3499241	7.15%	0.513%
193	12.416	12.410	12.433	HH	38113	502821	1.03%	0.074%
194	12.457	12.433	12.480	HH	260741	3558040	7.27%	0.522%

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195	12.488	12.480	12.502	HH	53290	662694	1.35%	0.097%
196	12.517	12.502	12.540	HH	56934	1044850	2.14%	0.153%
197	12.565	12.540	12.581	HH	76701	1294815	2.65%	0.190%
198	12.604	12.581	12.624	HH	82482	1438701	2.94%	0.211%
199	12.639	12.624	12.646	HH	40535	511970	1.05%	0.075%
200	12.663	12.646	12.678	HH	49143	869786	1.78%	0.128%
201	12.708	12.678	12.722	HH	99604	1826544	3.73%	0.268%
202	12.734	12.722	12.756	HH	72993	1218451	2.49%	0.179%
203	12.779	12.756	12.794	HH	131888	2028589	4.15%	0.298%
204	12.797	12.794	12.824	HH	91912	1084191	2.22%	0.159%
205	12.864	12.824	12.879	HH	233428	3898616	7.97%	0.572%
206	12.897	12.879	12.924	HH	227606	4178310	8.54%	0.613%
207	12.948	12.924	12.987	HH	134851	4331474	8.85%	0.635%
208	13.051	12.987	13.066	HH	2473271	48925198	100.00%	7.177%
209	13.082	13.066	13.097	HH	65838	975748	1.99%	0.143%
210	13.114	13.097	13.133	HH	58815	1118522	2.29%	0.164%
211	13.152	13.133	13.165	HH	70311	1167023	2.39%	0.171%
212	13.200	13.165	13.226	HH	207835	4319511	8.83%	0.634%
213	13.249	13.226	13.282	HH	141703	3121394	6.38%	0.458%
214	13.353	13.282	13.365	HH	2325045	45533477	93.07%	6.679%
215	13.379	13.365	13.392	HH	414674	4526364	9.25%	0.664%
216	13.407	13.392	13.433	HH	412604	4998909	10.22%	0.733%
217	13.454	13.433	13.469	HH	76695	1385684	2.83%	0.203%
218	13.488	13.469	13.502	HH	164264	2314613	4.73%	0.340%
219	13.518	13.502	13.540	HH	169231	2388155	4.88%	0.350%
220	13.581	13.540	13.606	HH	234478	4205151	8.60%	0.617%
221	13.619	13.606	13.628	HH	74859	927696	1.90%	0.136%
222	13.649	13.628	13.680	HH	104640	2376160	4.86%	0.349%
223	13.710	13.680	13.726	HH	158395	2620152	5.36%	0.384%
224	13.735	13.726	13.751	HH	92024	1281047	2.62%	0.188%
225	13.776	13.751	13.800	HH	299450	4928091	10.07%	0.723%
226	13.809	13.800	13.844	HH	68254	1594322	3.26%	0.234%
227	13.911	13.844	13.943	HH	493748	11173082	22.84%	1.639%
228	13.972	13.943	13.990	HH	101006	2177388	4.45%	0.319%
229	14.016	13.990	14.035	HH	236600	3902758	7.98%	0.572%
230	14.058	14.035	14.076	HH	342258	4937795	10.09%	0.724%
231	14.093	14.076	14.120	HH	154042	2868286	5.86%	0.421%
232	14.152	14.120	14.156	HH	148450	2420414	4.95%	0.355%
233	14.188	14.156	14.208	HH	331162	6359499	13.00%	0.933%
234	14.229	14.208	14.263	HH	311617	5184269	10.60%	0.760%
235	14.301	14.263	14.329	HH	147853	4028845	8.23%	0.591%
236	14.343	14.329	14.366	HH	96102	1906670	3.90%	0.280%
237	14.383	14.366	14.399	HH	90391	1616632	3.30%	0.237%
238	14.411	14.399	14.422	HH	83314	1123838	2.30%	0.165%
239	14.429	14.422	14.450	HH	80532	1248889	2.55%	0.183%
240	14.466	14.450	14.471	HH	69401	800862	1.64%	0.117%
241	14.490	14.471	14.525	HH	82713	2272325	4.64%	0.333%
242	14.542	14.525	14.559	HH	69650	1290693	2.64%	0.189%
243	14.585	14.559	14.590	HH	121524	1780828	3.64%	0.261%
244	14.619	14.590	14.629	HH	137401	3054789	6.24%	0.448%
245	14.653	14.629	14.676	HH	322280	5493128	11.23%	0.806%
246	14.689	14.676	14.702	HH	91793	1346195	2.75%	0.197%

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247	14.721	14.702	14.733	HH	109526	1864794	3.81%	0.274%
248	14.751	14.733	14.779	HH	126867	2863362	5.85%	0.420%
249	14.788	14.779	14.797	HH	79542	845076	1.73%	0.124%
250	14.827	14.797	14.849	HH	340159	6035120	12.34%	0.885%
251	14.856	14.849	14.867	HH	133986	1433154	2.93%	0.210%
252	14.892	14.867	14.915	HH	533556	8926841	18.25%	1.309%
253	14.933	14.915	14.944	HH	205486	3018539	6.17%	0.443%
254	14.965	14.944	14.993	HH	302653	5967590	12.20%	0.875%
255	15.012	14.993	15.030	HH	118269	2299275	4.70%	0.337%
256	15.061	15.030	15.136	HH	205939	8158198	16.67%	1.197%
257	15.228	15.136	15.246	HH	1197209	28530986	58.32%	4.185%
258	15.279	15.246	15.295	HH	1442941	23178891	47.38%	3.400%
259	15.301	15.295	15.330	HH	127588	2212777	4.52%	0.325%
260	15.379	15.330	15.417	HH	425491	9858573	20.15%	1.446%
261	15.451	15.417	15.480	HH	191786	4936264	10.09%	0.724%
262	15.512	15.480	15.532	HH	214336	4338790	8.87%	0.636%
263	15.552	15.532	15.614	HH	212457	7086671	14.48%	1.040%
264	15.652	15.614	15.679	HH	188611	5520416	11.28%	0.810%
265	15.693	15.679	15.725	HH	142109	3085812	6.31%	0.453%
266	15.748	15.725	15.762	HH	107357	2162048	4.42%	0.317%
267	15.788	15.762	15.809	HH	125216	3204635	6.55%	0.470%
268	15.835	15.809	15.854	HH	163904	3634371	7.43%	0.533%
269	15.887	15.854	15.904	HH	434136	7785813	15.91%	1.142%
270	15.921	15.904	15.952	HH	258542	5067913	10.36%	0.743%
271	15.971	15.952	15.986	HH	167176	2992479	6.12%	0.439%
272	15.989	15.986	16.004	HH	142725	1504324	3.07%	0.221%
273	16.037	16.004	16.079	HH	287287	9235936	18.88%	1.355%
274	16.118	16.079	16.142	HH	211028	5398278	11.03%	0.792%
275	16.161	16.142	16.180	HH	124998	2547749	5.21%	0.374%
276	16.202	16.180	16.228	HH	177460	3692745	7.55%	0.542%
277	16.268	16.228	16.301	HH	182102	6150356	12.57%	0.902%
278	16.306	16.301	16.325	HH	133941	1900569	3.88%	0.279%
279	16.342	16.325	16.364	HH	134308	2791572	5.71%	0.409%
280	16.377	16.364	16.394	HH	108232	1832101	3.74%	0.269%
281	16.413	16.394	16.421	HH	110880	1705246	3.49%	0.250%
282	16.431	16.421	16.454	HH	108835	2056385	4.20%	0.302%
283	16.478	16.454	16.500	HH	145626	3474240	7.10%	0.510%
284	16.522	16.500	16.541	HH	159182	3424101	7.00%	0.502%
285	16.566	16.541	16.614	HH	179141	6339471	12.96%	0.930%
286	16.654	16.614	16.667	HH	150186	4248410	8.68%	0.623%
287	16.689	16.667	16.722	HH	178529	5033015	10.29%	0.738%
288	16.812	16.722	16.826	HH	1312856	37104499	75.84%	5.443%
289	16.833	16.826	16.876	HH	931241	10308744	21.07%	1.512%
290	16.919	16.876	16.937	HH	455931	8944624	18.28%	1.312%
291	16.942	16.937	16.960	HH	192409	2278299	4.66%	0.334%
292	16.973	16.960	17.007	HH	144337	3893189	7.96%	0.571%
293	17.029	17.007	17.046	HH	178787	3671088	7.50%	0.539%
294	17.128	17.046	17.149	HH	805716	24658646	50.40%	3.617%
295	17.198	17.149	17.215	HH	1299961	26465455	54.09%	3.882%
296	17.241	17.215	17.247	HH	164679	3049538	6.23%	0.447%
297	17.277	17.247	17.295	HH	582770	9845199	20.12%	1.444%
298	17.315	17.295	17.338	HH	225941	4747678	9.70%	0.696%

Sum of corrected areas: 681706225

rteres

FG011325.M Fri Jan 31 06:10:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015257.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 16:15
Operator : YP\AJ
Sample : Q1216-17
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.2-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:09:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.055	1859051	14.493 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

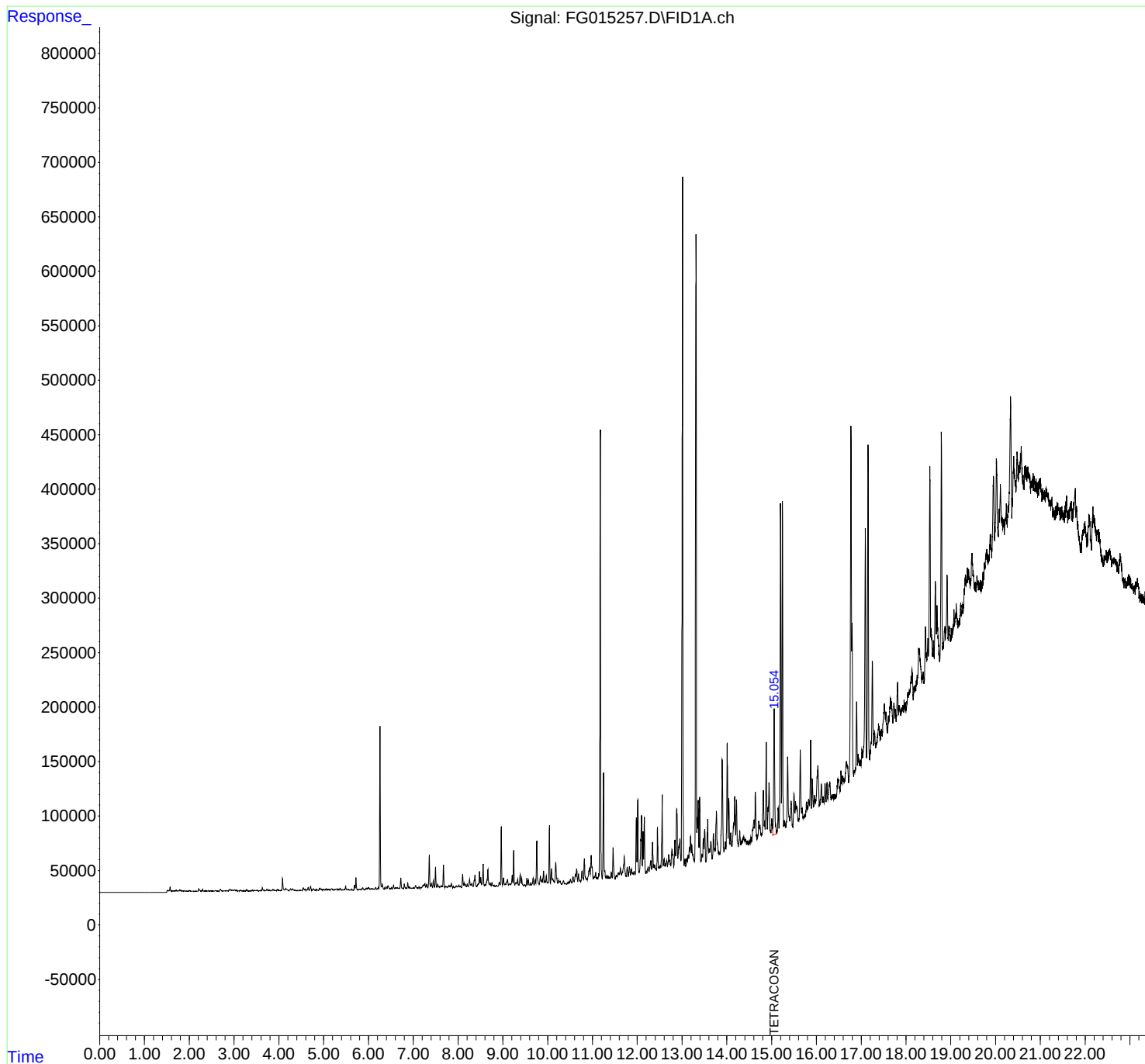
(m)=manual int.

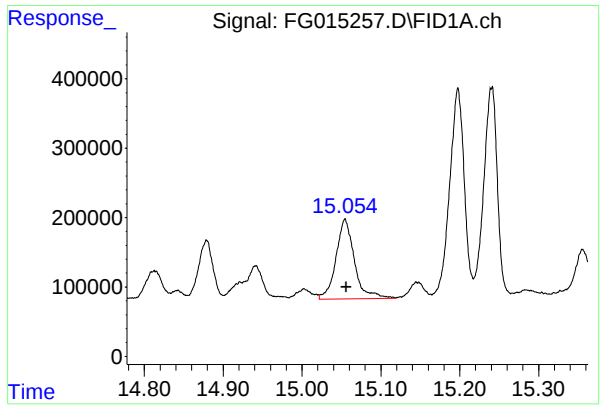
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015257.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 16:15
Operator : YP\AJ
Sample : Q1216-17
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
JPP-26.2-012825

Integration File: autoint1.e
Quant Time: Jan 31 05:09:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG011325.M
Quant Title :
QLast Update : Fri Jan 24 12:51:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.055 min
Delta R.T.: -0.002 min
Response: 1859051
Conc: 14.49 ug/ml

Instrument :
FID_G
ClientSampleId :
JPP-26.2-012825

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG013025\
Data File : FG015257.D
Signal(s) : FID1A.ch
Acq On : 30 Jan 2025 16:15
Sample : Q1216-17
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.365	4.350	4.393	BH	180	-988	-0.01%	-0.000%
2	4.405	4.393	4.416	PH	-100	-1965	-0.02%	-0.001%
3	4.437	4.416	4.461	PH	-85	-4641	-0.05%	-0.002%
4	4.477	4.461	4.485	PH	58	-1842	-0.02%	-0.001%
5	4.492	4.485	4.510	PH	-68	-2078	-0.02%	-0.001%
6	4.546	4.510	4.569	PH	2386	34810	0.37%	0.012%
7	4.582	4.569	4.602	HH	884	8642	0.09%	0.003%
8	4.620	4.602	4.634	PH	466	4079	0.04%	0.001%
9	4.653	4.634	4.680	HH	2424	26696	0.28%	0.009%
10	4.709	4.680	4.738	PH	3580	49876	0.53%	0.017%
11	4.741	4.738	4.746	HH	270	1006	0.01%	0.000%
12	4.769	4.746	4.814	HH	1426	25329	0.27%	0.009%
13	4.829	4.814	4.846	PH	584	6435	0.07%	0.002%
14	4.854	4.846	4.875	HH	543	5017	0.05%	0.002%
15	4.910	4.875	4.922	HH	1757	21350	0.23%	0.007%
16	4.930	4.922	4.943	HH	1344	13792	0.15%	0.005%
17	4.954	4.943	4.978	HH	887	12836	0.14%	0.004%
18	5.011	4.978	5.029	HH	679	15632	0.17%	0.005%
19	5.055	5.029	5.076	HH	1188	22483	0.24%	0.008%
20	5.101	5.076	5.109	HH	661	11820	0.13%	0.004%
21	5.123	5.109	5.146	HH	770	11265	0.12%	0.004%
22	5.176	5.146	5.213	HH	1471	34825	0.37%	0.012%
23	5.223	5.213	5.240	HH	772	8951	0.09%	0.003%
24	5.262	5.240	5.275	HH	1063	15354	0.16%	0.005%
25	5.300	5.275	5.320	HH	1333	22874	0.24%	0.008%
26	5.331	5.320	5.345	HH	757	8467	0.09%	0.003%
27	5.365	5.345	5.385	HH	1819	23867	0.25%	0.008%
28	5.389	5.385	5.408	HH	476	3855	0.04%	0.001%
29	5.428	5.408	5.448	HH	418	6041	0.06%	0.002%
30	5.462	5.448	5.473	HH	692	8147	0.09%	0.003%
31	5.490	5.473	5.516	HH	3625	44291	0.47%	0.015%
32	5.529	5.516	5.548	HH	1011	13909	0.15%	0.005%
33	5.564	5.548	5.578	HH	833	10222	0.11%	0.004%
34	5.590	5.578	5.603	HH	360	4027	0.04%	0.001%
35	5.622	5.603	5.646	HH	1206	15487	0.16%	0.005%
36	5.656	5.646	5.668	HH	256	2272	0.02%	0.001%

rteres								
37	5.688	5.668	5.706	HH	4584	60473	0.64%	0.021%
38	5.721	5.706	5.753	HH	11643	128339	1.36%	0.045%
39	5.763	5.753	5.779	HH	679	7655	0.08%	0.003%
40	5.805	5.779	5.826	HH	1018	19989	0.21%	0.007%
41	5.847	5.826	5.856	HH	1124	14122	0.15%	0.005%
42	5.873	5.856	5.907	HH	2410	42399	0.45%	0.015%
43	5.918	5.907	5.925	HH	652	6285	0.07%	0.002%
44	5.956	5.925	5.970	HH	1782	34572	0.37%	0.012%
45	6.000	5.970	6.037	HH	2654	67558	0.71%	0.024%
46	6.056	6.037	6.071	HH	1635	23904	0.25%	0.008%
47	6.077	6.071	6.082	HH	1100	7165	0.08%	0.003%
48	6.098	6.082	6.113	HH	1655	23633	0.25%	0.008%
49	6.124	6.113	6.143	HH	1255	18001	0.19%	0.006%
50	6.161	6.143	6.186	HH	2584	42780	0.45%	0.015%
51	6.222	6.186	6.235	HH	2809	49854	0.53%	0.017%
52	6.258	6.235	6.293	HH	150698	1495525	15.82%	0.523%
53	6.308	6.293	6.343	HH	5788	96687	1.02%	0.034%
54	6.367	6.343	6.392	HH	2669	48571	0.51%	0.017%
55	6.410	6.392	6.421	HH	3098	38804	0.41%	0.014%
56	6.436	6.421	6.475	HH	4180	89677	0.95%	0.031%
57	6.490	6.475	6.500	HH	1565	21591	0.23%	0.008%
58	6.513	6.500	6.530	HH	1852	29533	0.31%	0.010%
59	6.561	6.530	6.581	HH	4534	80976	0.86%	0.028%
60	6.609	6.581	6.625	HH	2455	54404	0.58%	0.019%
61	6.644	6.625	6.658	HH	2296	40717	0.43%	0.014%
62	6.669	6.658	6.684	HH	1980	28004	0.30%	0.010%
63	6.688	6.684	6.697	HH	1741	12808	0.14%	0.004%
64	6.724	6.697	6.751	HH	11516	164902	1.74%	0.058%
65	6.758	6.751	6.774	HH	2029	25638	0.27%	0.009%
66	6.801	6.774	6.839	HH	5860	113230	1.20%	0.040%
67	6.848	6.839	6.861	HH	2186	26485	0.28%	0.009%
68	6.878	6.861	6.904	HH	6666	101293	1.07%	0.035%
69	6.917	6.904	6.939	HH	3147	50989	0.54%	0.018%
70	6.951	6.939	6.964	HH	2231	29315	0.31%	0.010%
71	7.009	6.964	7.026	HH	2627	74813	0.79%	0.026%
72	7.053	7.026	7.083	HH	4471	101526	1.07%	0.036%
73	7.091	7.083	7.105	HH	2400	28769	0.30%	0.010%
74	7.128	7.105	7.150	HH	3275	69285	0.73%	0.024%
75	7.217	7.150	7.228	HH	4622	136205	1.44%	0.048%
76	7.240	7.228	7.248	HH	5015	56908	0.60%	0.020%
77	7.260	7.248	7.283	HH	5900	93562	0.99%	0.033%
78	7.301	7.283	7.328	HH	5562	101018	1.07%	0.035%
79	7.359	7.328	7.383	HH	32549	408755	4.32%	0.143%
80	7.405	7.383	7.430	HH	6168	126784	1.34%	0.044%
81	7.448	7.430	7.476	HH	8946	141980	1.50%	0.050%
82	7.498	7.476	7.527	HH	21563	268850	2.84%	0.094%
83	7.546	7.527	7.567	HH	5458	94977	1.00%	0.033%
84	7.577	7.567	7.607	HH	3362	73314	0.78%	0.026%
85	7.621	7.607	7.647	HH	4386	87577	0.93%	0.031%
86	7.676	7.647	7.705	HH	23397	312056	3.30%	0.109%
87	7.730	7.705	7.754	HH	3376	91556	0.97%	0.032%
88	7.766	7.754	7.777	HH	3162	40819	0.43%	0.014%
89	7.801	7.777	7.826	HH	4178	104252	1.10%	0.036%

					rteres			
90	7.852	7.826	7.880	HH	6191	136541	1.44%	0.048%
91	7.898	7.880	7.920	HH	3266	68091	0.72%	0.024%
92	7.963	7.920	7.978	HH	4241	113396	1.20%	0.040%
93	8.017	7.978	8.034	HH	4776	121968	1.29%	0.043%
94	8.048	8.034	8.079	HH	3682	84132	0.89%	0.029%
95	8.104	8.079	8.124	HH	14941	216194	2.29%	0.076%
96	8.137	8.124	8.153	HH	6480	94204	1.00%	0.033%
97	8.164	8.153	8.182	HH	5384	79158	0.84%	0.028%
98	8.206	8.182	8.226	HH	5687	108255	1.15%	0.038%
99	8.259	8.226	8.281	HH	9991	205109	2.17%	0.072%
100	8.289	8.281	8.296	HH	5057	46173	0.49%	0.016%
101	8.310	8.296	8.338	HH	6313	122082	1.29%	0.043%
102	8.361	8.338	8.367	HH	9071	109749	1.16%	0.038%
103	8.379	8.367	8.411	HH	14063	210659	2.23%	0.074%
104	8.454	8.411	8.461	HH	6038	144807	1.53%	0.051%
105	8.481	8.461	8.497	HH	17473	234727	2.48%	0.082%
106	8.509	8.497	8.527	HH	11925	153528	1.62%	0.054%
107	8.562	8.527	8.587	HH	24164	381904	4.04%	0.134%
108	8.606	8.587	8.619	HH	5101	92140	0.97%	0.032%
109	8.667	8.619	8.700	HH	18952	451102	4.77%	0.158%
110	8.719	8.700	8.738	HH	6696	125984	1.33%	0.044%
111	8.758	8.738	8.794	HH	6885	167744	1.77%	0.059%
112	8.807	8.794	8.827	HH	4970	81760	0.86%	0.029%
113	8.860	8.827	8.878	HH	4275	119059	1.26%	0.042%
114	8.893	8.878	8.899	HH	3764	45757	0.48%	0.016%
115	8.921	8.899	8.944	HH	7407	151774	1.61%	0.053%
116	8.966	8.944	8.998	HH	58344	687475	7.27%	0.241%
117	9.015	8.998	9.047	HH	11251	216824	2.29%	0.076%
118	9.058	9.047	9.068	HH	5543	69595	0.74%	0.024%
119	9.105	9.068	9.126	HH	9939	255602	2.70%	0.089%
120	9.140	9.126	9.150	HH	5616	75782	0.80%	0.027%
121	9.158	9.150	9.174	HH	5944	81867	0.87%	0.029%
122	9.211	9.174	9.225	HH	14089	260122	2.75%	0.091%
123	9.243	9.225	9.268	HH	36712	451742	4.78%	0.158%
124	9.287	9.268	9.298	HH	6863	105936	1.12%	0.037%
125	9.308	9.298	9.317	HH	7185	79070	0.84%	0.028%
126	9.333	9.317	9.355	HH	10199	167877	1.78%	0.059%
127	9.359	9.355	9.364	HH	4909	26672	0.28%	0.009%
128	9.390	9.364	9.409	HH	14650	264074	2.79%	0.092%
129	9.424	9.409	9.462	HH	11002	215942	2.28%	0.076%
130	9.481	9.462	9.505	HH	5236	118326	1.25%	0.041%
131	9.539	9.505	9.557	HH	11079	207052	2.19%	0.072%
132	9.571	9.557	9.604	HH	9378	180157	1.91%	0.063%
133	9.624	9.604	9.642	HH	6746	126019	1.33%	0.044%
134	9.677	9.642	9.699	HH	11162	246845	2.61%	0.086%
135	9.721	9.699	9.737	HH	9581	162395	1.72%	0.057%
136	9.759	9.737	9.809	HH	45309	694397	7.35%	0.243%
137	9.839	9.809	9.857	HH	13426	257177	2.72%	0.090%
138	9.862	9.857	9.870	HH	8344	64888	0.69%	0.023%
139	9.882	9.870	9.893	HH	9865	121466	1.29%	0.043%
140	9.911	9.893	9.931	HH	17802	278991	2.95%	0.098%
141	9.941	9.931	9.953	HH	8466	100733	1.07%	0.035%

rteres								
142	9.972	9.953	9.992	HH	13288	231139	2.45%	0.081%
143	10.003	9.992	10.010	HH	7114	73214	0.77%	0.026%
144	10.041	10.010	10.064	HH	59372	739965	7.83%	0.259%
145	10.085	10.064	10.103	HH	19417	298181	3.15%	0.104%
146	10.112	10.103	10.155	HH	10391	271639	2.87%	0.095%
147	10.183	10.155	10.230	HH	25777	599405	6.34%	0.210%
148	10.248	10.230	10.268	HH	9223	178661	1.89%	0.063%
149	10.282	10.268	10.315	HH	8557	196381	2.08%	0.069%
150	10.354	10.315	10.380	HH	8672	271617	2.87%	0.095%
151	10.385	10.380	10.401	HH	6263	75367	0.80%	0.026%
152	10.414	10.401	10.430	HH	5951	101956	1.08%	0.036%
153	10.451	10.430	10.465	HH	7215	139988	1.48%	0.049%
154	10.479	10.465	10.495	HH	7454	128467	1.36%	0.045%
155	10.511	10.495	10.545	HH	10201	246652	2.61%	0.086%
156	10.567	10.545	10.590	HH	12396	261362	2.77%	0.091%
157	10.622	10.590	10.633	HH	14947	292658	3.10%	0.102%
158	10.649	10.633	10.673	HH	19877	340040	3.60%	0.119%
159	10.690	10.673	10.736	HH	14692	388789	4.11%	0.136%
160	10.767	10.736	10.800	HH	17634	467190	4.94%	0.163%
161	10.820	10.800	10.858	HH	28699	573240	6.06%	0.201%
162	10.869	10.858	10.887	HH	10938	175806	1.86%	0.062%
163	10.922	10.887	10.927	HH	18015	328131	3.47%	0.115%
164	10.938	10.927	10.952	HH	20517	271649	2.87%	0.095%
165	10.973	10.952	10.991	HH	32102	568652	6.02%	0.199%
166	10.997	10.991	11.018	HH	21308	276416	2.92%	0.097%
167	11.044	11.018	11.057	HH	12670	269358	2.85%	0.094%
168	11.072	11.057	11.091	HH	16179	275757	2.92%	0.096%
169	11.103	11.091	11.123	HH	11748	216188	2.29%	0.076%
170	11.140	11.123	11.149	HH	15463	207529	2.20%	0.073%
171	11.177	11.149	11.221	HH	421705	5013696	53.04%	1.754%
172	11.248	11.221	11.270	HH	107782	1372723	14.52%	0.480%
173	11.275	11.270	11.293	HH	17812	212251	2.25%	0.074%
174	11.304	11.293	11.335	HH	12910	304238	3.22%	0.106%
175	11.349	11.335	11.370	HH	13172	253560	2.68%	0.089%
176	11.387	11.370	11.399	HH	12152	202879	2.15%	0.071%
177	11.420	11.399	11.443	HH	16519	353721	3.74%	0.124%
178	11.464	11.443	11.506	HH	39105	752502	7.96%	0.263%
179	11.537	11.506	11.551	HH	13452	334786	3.54%	0.117%
180	11.570	11.551	11.589	HH	15741	334148	3.54%	0.117%
181	11.625	11.589	11.655	HH	20236	641599	6.79%	0.225%
182	11.712	11.655	11.748	HH	30463	1103768	11.68%	0.386%
183	11.777	11.748	11.799	HH	20937	499169	5.28%	0.175%
184	11.828	11.799	11.850	HH	21812	522108	5.52%	0.183%
185	11.870	11.850	11.902	HH	19477	509428	5.39%	0.178%
186	11.906	11.902	11.918	HH	15347	152001	1.61%	0.053%
187	11.934	11.918	11.953	HH	17592	337131	3.57%	0.118%
188	11.981	11.953	11.996	HH	66657	944137	9.99%	0.330%
189	12.012	11.996	12.037	HH	83059	1123477	11.89%	0.393%
190	12.047	12.037	12.052	HH	17246	155742	1.65%	0.054%
191	12.095	12.052	12.113	HH	68304	1453118	15.37%	0.508%
192	12.130	12.113	12.143	HH	53998	708982	7.50%	0.248%
193	12.160	12.143	12.192	HH	67232	1069491	11.31%	0.374%
194	12.205	12.192	12.218	HH	17372	256417	2.71%	0.090%

					rteres			
195	12.242	12.218	12.264	HH	21545	535565	5.67%	0.187%
196	12.303	12.264	12.322	HH	27460	769711	8.14%	0.269%
197	12.342	12.322	12.360	HH	43998	697689	7.38%	0.244%
198	12.373	12.360	12.428	HH	23512	865411	9.16%	0.303%
199	12.453	12.428	12.479	HH	57825	1013543	10.72%	0.355%
200	12.491	12.479	12.498	HH	21313	240137	2.54%	0.084%
201	12.515	12.498	12.529	HH	22731	405552	4.29%	0.142%
202	12.556	12.529	12.580	HH	87858	1390520	14.71%	0.487%
203	12.601	12.580	12.618	HH	28777	571947	6.05%	0.200%
204	12.632	12.618	12.642	HH	23833	336363	3.56%	0.118%
205	12.658	12.642	12.674	HH	27564	471387	4.99%	0.165%
206	12.704	12.674	12.721	HH	32794	764809	8.09%	0.268%
207	12.730	12.721	12.746	HH	27240	384481	4.07%	0.135%
208	12.776	12.746	12.790	HH	37582	811946	8.59%	0.284%
209	12.793	12.790	12.816	HH	32628	412794	4.37%	0.144%
210	12.838	12.816	12.860	HH	46122	908095	9.61%	0.318%
211	12.883	12.860	12.907	HH	74401	1484898	15.71%	0.520%
212	12.950	12.907	12.975	HH	47481	1541920	16.31%	0.540%
213	13.012	12.975	13.048	HH	651547	8478165	89.69%	2.967%
214	13.066	13.048	13.087	HH	28722	581787	6.15%	0.204%
215	13.105	13.087	13.121	HH	28714	554604	5.87%	0.194%
216	13.138	13.121	13.148	HH	32370	500734	5.30%	0.175%
217	13.165	13.148	13.174	HH	38880	538420	5.70%	0.188%
218	13.191	13.174	13.205	HH	48793	773736	8.19%	0.271%
219	13.218	13.205	13.278	HH	41791	1424927	15.07%	0.499%
220	13.312	13.278	13.330	HH	601815	7529892	79.66%	2.635%
221	13.338	13.330	13.347	HH	65657	637714	6.75%	0.223%
222	13.361	13.347	13.377	HH	82745	1104941	11.69%	0.387%
223	13.392	13.377	13.423	HH	85286	1387938	14.68%	0.486%
224	13.446	13.423	13.460	HH	32893	670274	7.09%	0.235%
225	13.478	13.460	13.490	HH	47111	713198	7.55%	0.250%
226	13.505	13.490	13.532	HH	56054	1044103	11.05%	0.365%
227	13.572	13.532	13.596	HH	65443	1597608	16.90%	0.559%
228	13.609	13.596	13.619	HH	38166	507336	5.37%	0.178%
229	13.642	13.619	13.671	HH	44699	1168685	12.36%	0.409%
230	13.702	13.671	13.721	HH	51941	1179907	12.48%	0.413%
231	13.727	13.721	13.742	HH	38469	471030	4.98%	0.165%
232	13.767	13.742	13.829	HH	72570	2406941	25.46%	0.842%
233	13.835	13.829	13.849	HH	34369	406984	4.31%	0.142%
234	13.897	13.849	13.933	HH	118200	3116420	32.97%	1.090%
235	13.966	13.933	13.982	HH	44275	1152383	12.19%	0.403%
236	14.008	13.982	14.028	HH	133742	2271869	24.03%	0.795%
237	14.043	14.028	14.066	HH	84156	1406983	14.88%	0.492%
238	14.085	14.066	14.113	HH	52680	1291876	13.67%	0.452%
239	14.154	14.113	14.160	HH	61675	1464134	15.49%	0.512%
240	14.175	14.160	14.197	HH	86079	1510330	15.98%	0.528%
241	14.214	14.197	14.257	HH	82831	2013415	21.30%	0.705%
242	14.288	14.257	14.312	HH	53931	1552718	16.43%	0.543%
243	14.335	14.312	14.344	HH	45085	830752	8.79%	0.291%
244	14.362	14.344	14.367	HH	48408	624177	6.60%	0.218%
245	14.376	14.367	14.399	HH	49016	919455	9.73%	0.322%
246	14.403	14.399	14.413	HH	46565	389792	4.12%	0.136%

rteres								
247	14.416	14.413	14.423	HH	46169	273109	2.89%	0.096%
248	14.426	14.423	14.439	HH	46364	419945	4.44%	0.147%
249	14.457	14.439	14.469	HH	45637	773485	8.18%	0.271%
250	14.485	14.469	14.500	HH	44708	816235	8.64%	0.286%
251	14.510	14.500	14.520	HH	44729	538047	5.69%	0.188%
252	14.537	14.520	14.556	HH	49009	978998	10.36%	0.343%
253	14.605	14.556	14.618	HH	64511	2129213	22.53%	0.745%
254	14.637	14.618	14.671	HH	90028	2034305	21.52%	0.712%
255	14.679	14.671	14.687	HH	49181	487708	5.16%	0.171%
256	14.714	14.687	14.729	HH	63124	1427106	15.10%	0.499%
257	14.740	14.729	14.767	HH	59501	1252563	13.25%	0.438%
258	14.813	14.767	14.834	HH	91023	2650759	28.04%	0.928%
259	14.842	14.834	14.857	HH	63265	808822	8.56%	0.283%
260	14.879	14.857	14.902	HH	135464	2440444	25.82%	0.854%
261	14.941	14.902	14.984	HH	98183	3424710	36.23%	1.198%
262	15.003	14.984	15.022	HH	65701	1340724	14.18%	0.469%
263	15.055	15.022	15.119	HH	166229	4860200	51.42%	1.701%
264	15.146	15.119	15.165	HH	74299	1731885	18.32%	0.606%
265	15.198	15.165	15.217	HH	355092	5552432	58.74%	1.943%
266	15.241	15.217	15.268	HH	354654	5278428	55.84%	1.847%
267	15.284	15.268	15.316	HH	63802	1733987	18.34%	0.607%
268	15.356	15.316	15.407	HH	122602	4187814	44.30%	1.465%
269	15.434	15.407	15.467	HH	81994	2517068	26.63%	0.881%
270	15.497	15.467	15.522	HH	88583	2412899	25.53%	0.844%
271	15.535	15.522	15.549	HH	81316	1269332	13.43%	0.444%
272	15.559	15.549	15.597	HH	76551	2027495	21.45%	0.709%
273	15.638	15.597	15.667	HH	128717	3651305	38.63%	1.278%
274	15.683	15.667	15.720	HH	75354	2208185	23.36%	0.773%
275	15.738	15.720	15.748	HH	69951	1140768	12.07%	0.399%
276	15.781	15.748	15.797	HH	81186	2161455	22.87%	0.756%
277	15.802	15.797	15.812	HH	75291	672546	7.12%	0.235%
278	15.829	15.812	15.847	HH	83008	1726006	18.26%	0.604%
279	15.871	15.847	15.890	HH	138071	2629529	27.82%	0.920%
280	15.908	15.890	15.937	HH	102002	2463844	26.07%	0.862%
281	15.954	15.937	15.973	HH	86525	1759152	18.61%	0.616%
282	16.031	15.973	16.066	HH	114382	5229229	55.32%	1.830%
283	16.111	16.066	16.134	HH	97482	3508997	37.12%	1.228%
284	16.150	16.134	16.171	HH	85239	1823872	19.30%	0.638%
285	16.193	16.171	16.214	HH	97400	2292015	24.25%	0.802%
286	16.236	16.214	16.257	HH	99091	2308264	24.42%	0.808%
287	16.299	16.257	16.329	HH	99777	3980589	42.11%	1.393%
288	16.343	16.329	16.359	HH	85727	1534950	16.24%	0.537%
289	16.375	16.359	16.390	HH	87761	1597294	16.90%	0.559%
290	16.407	16.390	16.420	HH	88071	1566826	16.58%	0.548%
291	16.434	16.420	16.440	HH	87439	1014204	10.73%	0.355%
292	16.475	16.440	16.479	HH	102079	2201013	23.29%	0.770%
293	16.487	16.479	16.513	HH	101930	1959391	20.73%	0.686%
294	16.517	16.513	16.528	HH	94043	848875	8.98%	0.297%
295	16.548	16.528	16.568	HH	109491	2440907	25.82%	0.854%
296	16.579	16.568	16.584	HH	104855	971965	10.28%	0.340%
297	16.588	16.584	16.612	HH	103781	1676181	17.73%	0.587%
298	16.622	16.612	16.627	HH	102203	960475	10.16%	0.336%
299	16.672	16.627	16.719	HH	118385	6050772	64.01%	2.117%

						rters		
300	16.770	16.719	16.787	HH	425419	8959268	94.78%	3.135%
301	16.796	16.787	16.828	HH	245412	4006811	42.39%	1.402%
302	16.844	16.828	16.848	HH	110044	1290150	13.65%	0.451%
303	16.896	16.848	16.915	HH	172697	5178521	54.79%	1.812%
304	16.930	16.915	16.975	HH	124645	4260350	45.07%	1.491%
305	16.989	16.975	16.998	HH	118845	1633116	17.28%	0.571%
306	17.017	16.998	17.030	HH	129378	2393001	25.32%	0.837%
307	17.092	17.030	17.118	HH	330628	9452391	100.00%	3.308%
308	17.153	17.118	17.183	HH	408867	8412383	89.00%	2.944%
309	17.248	17.183	17.276	HH	209697	8270210	87.49%	2.894%
310	17.299	17.276	17.320	HH	144993	3666492	38.79%	1.283%
311	17.326	17.320	17.330	HH	133841	809471	8.56%	0.283%
312	17.387	17.330	17.394	HH	152949	5426324	57.41%	1.899%
					Sum of corrected areas:		285785323	

FG011325.M Fri Jan 31 06:11:00 2025



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. **Q1216**
QUOTE NO.
COC Number **2041068**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: RU2 Engineering LLC
ADDRESS: 2 Melinda Drive
CITY: Monroe Twp, NJ 08831
ATTENTION: Ruta Manani
PHONE: 609-409-4564 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SANDTWOBR BMLR Project
PROJECT NO.: LOCATION: Brooklyn, NYC
PROJECT MANAGER: Ruta Manani
e-mail: Rmanani@Ru2eng.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Same as Company address
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

TEL VOC + TLCS + TBA
2 TELP VOCs
3 TPH
4 GAO-DRO
5 TEL SVOCs + TLCS
6 TAL Metals
7 Pesticides PCBs
8 RCA Characteristics
9 Paint Filter
9 full TELP

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 C-ICE C-H2SO4 F-OTHER	
1.	JPP-18.1-012825	Soil		G	1/28/25	8:35	3	X	X	X								
2.	JPP-18.1-012825	Soil	L		1/28/25	8:41	7			X	X	X	X	X	X	X		
3.	JPP-21.1-012825	Soil		G	1/28/25	9:25	3	X	X	X								
4.	JPP-21.1-012825	Soil	L		1/28/25	9:30	7			X	X	X	X	X	X	X		
5.	JPP-21.2-012825	Soil		G	1/28/25	10:44	3	X	X	X								
6.	JPP-21.2-012825	Soil	L		1/28/25	10:50	7			X	X	X	X	X	X	X		
7.	JPP-26.1-012825	Soil		G	1/28/25	11:28	3	X	X	X								
8.	JPP-26.1-012825	Soil	L		1/28/25	11:35	7			X	X	X	X	X	X	X		
9.	JPP-26.2-012825	Soil		G	1/28/25	13:20	3	X	X	X								
10.	JPP-26.2-012825	Soil	L		1/28/25	13:32	7			X	X	X	X	X	X	X		

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

RELINQUISHED BY SAMPLER: 1. AA	DATE/TIME: 1/29/2025	RECEIVED BY: 1045 1-29-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 28°C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments: Preserve extra sample jar if additional analysis is Required
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1614 1-29-25	RECEIVED BY:	Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete
☐ YES ☐ NO



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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

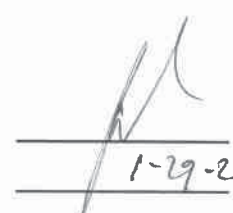
Order ID : Q1216	RUTW01	Order Date : 1/29/2025 11:54:00 AM	YG	Project Mgr :
Client Name : RU2 Engineering, LLC		Project Name : SANDTWOBR BMCR Bro 02/03/25		Report Type : NYS ASP B
Client Contact : Rutu Manani		Receive Date Time : 1/29/2025 4:14:00 PM	NYCDDC SANDTWOBR Brooklyn Bridge	EDD Type : Excel NY
Invoice Name : RU2 Engineering, LLC		Purchase Order :		Hard Copy Date :
Invoice Contact : Rutu Manani				Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1216-01	JPP-18.1-012825	Solid	01/28/2025	08:35					
					VOCMS Group1		8260D	10 Bus. Days	
Q1216-05	JPP-21.1-012825	Solid	01/28/2025	09:25					
					VOCMS Group1		8260D	10 Bus. Days	
Q1216-09	JPP-21.2-012825	Solid	01/28/2025	10:44					
					VOCMS Group1		8260D	10 Bus. Days	
Q1216-13	JPP-26.1-012825	Solid	01/28/2025	11:28					
					VOCMS Group1		8260D	10 Bus. Days	
Q1216-17	JPP-26.2-012825	Solid	01/28/2025	13:20					
					VOCMS Group1		8260D	10 Bus. Days	

Relinquished By: 

Date / Time :

1-29-25 1700

Received By: 

Date / Time :

1-29-25 1700

Storage Area : VOA Refridgerator Room

Samples in Sm Frig @ 1700.