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

Cover Page

Order ID : P4103

Project ID : North Point

Client : ENTACT

Lab Sample Number	Client Sample Number
P4103-01	WC-22A
P4103-02	WC-22A
P4103-03	WC-22A
P4103-04	WC-14-5-7.5A
P4103-05	WC-14-5-7.5A
P4103-06	WC-14-5-7.5A
P4103-07	WC-14-5-7.5B
P4103-08	WC-14-5-7.5B
P4103-09	WC-14-5-7.5B
P4103-10	WC-14-7.5-10A
P4103-11	WC-14-7.5-10A
P4103-12	WC-14-7.5-10A
P4103-13	WC-14-7.5-10B
P4103-14	WC-14-7.5-10B
P4103-15	WC-14-7.5-10B
P4103-16	WC-23
P4103-17	WC-23
P4103-18	WC-23

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: 10/1/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4103**

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

QA Review Signature: **SHREENA PATEL** **Date:** **10/01/2024**

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

LAB CHRONICLE

OrderID:	P4103	**OrderDate:**	9/18/2024 3:16:00 PM
Client:	ENTACT	**Project:**	North Point
Contact:	Chris Lawrence	**Location:**	J11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4103-01	**WC-22A**	**SOIL**			**09/17/24**			**09/18/24**
			Diesel Range Organics	8015D		09/19/24	09/19/24	
			Gasoline Range Organics	8015D			09/19/24	
			PCB	8082A		09/19/24	09/19/24	
			EPH	NJEPH		09/19/24	09/19/24	
			EPH	NJEPH		09/19/24	09/20/24	
P4103-01DL	**WC-22ADL**	**Solid**			**09/17/24**			**09/18/24**
			EPH	NJEPH		09/19/24	09/20/24	
P4103-01DL2	**WC-22ADL2**	**Solid**			**09/17/24**			**09/18/24**
			EPH	NJEPH		09/19/24	09/20/24	
P4103-02	**WC-22A**	**TCLP**			**09/17/24**			**09/18/24**
			TCLP Herbicide	8151A		09/20/24	09/24/24	
			TCLP Pesticide	8081B		09/20/24	09/23/24	
P4103-04	**WC-14-5-7.5A**	**SOIL**			**09/17/24**			**09/18/24**
			Diesel Range Organics	8015D		09/19/24	09/19/24	
			Gasoline Range Organics	8015D			09/19/24	
			PCB	8082A		09/19/24	09/19/24	
			EPH	NJEPH		09/19/24	09/19/24	
			EPH	NJEPH		09/19/24	09/20/24	
P4103-04DL	**WC-14-5-7.5ADL**	**Solid**			**09/17/24**			**09/18/24**
			EPH	NJEPH		09/19/24	09/20/24	
P4103-05	**WC-14-5-7.5A**	**TCLP**			**09/17/24**			**09/18/24**
			TCLP Herbicide	8151A		09/20/24	09/24/24	
			TCLP Pesticide	8081B		09/20/24	09/23/24	
P4103-07	**WC-14-5-7.5B**	**SOIL**			**09/17/24**			**09/18/24**

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

LAB CHRONICLE

			Diesel Range Organics	8015D		09/19/24	09/19/24
			Gasoline Range Organics	8015D			09/20/24
			PCB	8082A		09/19/24	09/19/24
			EPH	NJEPH		09/19/24	09/19/24
			EPH	NJEPH		09/19/24	09/20/24
P4103-07DL	**WC-14-5-7.5BDL**	**Solid**			**09/17/24**		**09/18/24**
			EPH	NJEPH		09/19/24	09/20/24
P4103-08	**WC-14-5-7.5B**	**TCLP**			**09/17/24**		**09/18/24**
			TCLP Herbicide	8151A		09/20/24	09/24/24
			TCLP Pesticide	8081B		09/20/24	09/23/24
P4103-10	**WC-14-7.5-10A**	**SOIL**			**09/17/24**		**09/18/24**
			Diesel Range Organics	8015D		09/19/24	09/19/24
			Gasoline Range Organics	8015D			09/20/24
			PCB	8082A		09/19/24	09/19/24
			EPH	NJEPH		09/19/24	09/19/24
			EPH	NJEPH		09/19/24	09/20/24
P4103-10DL	**WC-14-7.5-10ADL**	**Solid**			**09/17/24**		**09/18/24**
			EPH	NJEPH		09/19/24	09/20/24
P4103-10DL 2	**WC-14-7.5-10ADL2**	**Solid**			**09/17/24**		**09/18/24**
			EPH	NJEPH		09/19/24	09/20/24
P4103-11	**WC-14-7.5-10A**	**TCLP**			**09/17/24**		**09/18/24**
			TCLP Herbicide	8151A		09/20/24	09/24/24
			TCLP Pesticide	8081B		09/20/24	09/23/24
P4103-13	**WC-14-7.5-10B**	**SOIL**			**09/17/24**		**09/18/24**
			Diesel Range Organics	8015D		09/19/24	09/20/24
			Gasoline Range Organics	8015D			09/20/24
			PCB	8082A		09/19/24	09/19/24
			EPH	NJEPH		09/19/24	09/19/24
P4103-14	**WC-14-7.5-10B**	**TCLP**			**09/17/24**		**09/18/24**
			TCLP Herbicide	8151A		09/20/24	09/24/24
			TCLP Pesticide	8081B		09/20/24	09/23/24
P4103-16	**WC-23**	**SOIL**			**09/17/24**		**09/18/24**

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

LAB CHRONICLE

			Diesel Range Organics	8015D		09/19/24	09/20/24
			Gasoline Range Organics	8015D			09/20/24
			PCB	8082A		09/19/24	09/19/24
			EPH	NJEPH		09/19/24	09/19/24
			EPH	NJEPH		09/19/24	09/20/24
P4103-16DL	**WC-23DL**	**Solid**			**09/17/24**		**09/18/24**
			EPH	NJEPH		09/19/24	09/20/24
P4103-17	**WC-23**	**TCLP**			**09/17/24**		**09/18/24**
			TCLP Herbicide	8151A		09/20/24	09/24/24
			TCLP Pesticide	8081B		09/20/24	09/23/24

QC SUMMARY

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

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: ENTACT

Lab Code: CHEM Case No.: P4103 SAS No.: P4103 SDG No.: P4103

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF014536.D	82				0
PIBLK-FF014549.D	83				0
PIBLK-FF014552.D	107				0
PIBLK-FF014556.D	91				0
WC-22A	0 *				1
WC-14-5-7.5A	0 *				1
WC-14-5-7.5B	65				0
WC-14-7.5-10A	0 *				1
WC-14-7.5-10B	62				0
WC-23	0 *				1
WC-23MS	58				0
WC-23MSD	59				0
PB163522BL	82				0
PB163522BS	90				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

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

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4103 **SAS No :** P4103 **SDG No:** P4103

Client SampleID : WC-23MS **Datafile:** FF014541.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7744	161000	147000	-181%	*	68-131

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

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4103 **SAS No :** P4103 **SDG No:** P4103

Client SampleID : WC-23MSD **Datafile:** FF014542.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7739	161000	147000	-181%	*	68-131

MS/MSD % Recovery RPD : 0

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

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

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4103 **SAS No :** P4103 **SDG No:** P4103

Matrix Spike - EPA Sample No : PB163522BS **Datafile:** FF014539.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6664	0	6799	102	68-131

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

4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163522BL

Lab Name: CHEMTECH Contract: ENTA05

Lab Code: CHEM Case No.: P4103 SAS No.: P4103 SDG NO.: P4103

Lab File ID: FF014538.D Lab Sample ID: PB163522BL

Instrument ID: FF Date Extracted: 09/19/2024

Matrix: (soil/water) Soil Date Analyzed: 09/19/24

Level: (low/med) low Time Analyzed: 19:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB163522BS	PB163522BS	FF014539.D	09/19/24
WC-23MS	P4103-16MS	FF014541.D	09/19/24
WC-23MSD	P4103-16MSD	FF014542.D	09/19/24
WC-22A	P4103-01	FF014543.D	09/19/24
WC-14-5-7.5A	P4103-04	FF014544.D	09/19/24
WC-14-5-7.5B	P4103-07	FF014545.D	09/19/24
WC-14-7.5-10A	P4103-10	FF014546.D	09/19/24
WC-23	P4103-16	FF014548.D	09/20/24
WC-14-7.5-10B	P4103-13	FF014555.D	09/20/24

COMMENTS:

SAMPLE DATA

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-22A	SDG No.:	P4103
Lab Sample ID:	P4103-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.7 Decanted:
Sample Wt/Vol:	30.04 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
FF014543.D	200	09/19/24 11:09	09/19/24 21:55	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1180000		39800	359000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.00	*	37 - 130	0%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014543.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 21:55
Operator : YP\AJ
Sample : P4103-01 200X
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-22A

Integration File: autoint1.e
Quant Time: Sep 20 02:28:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

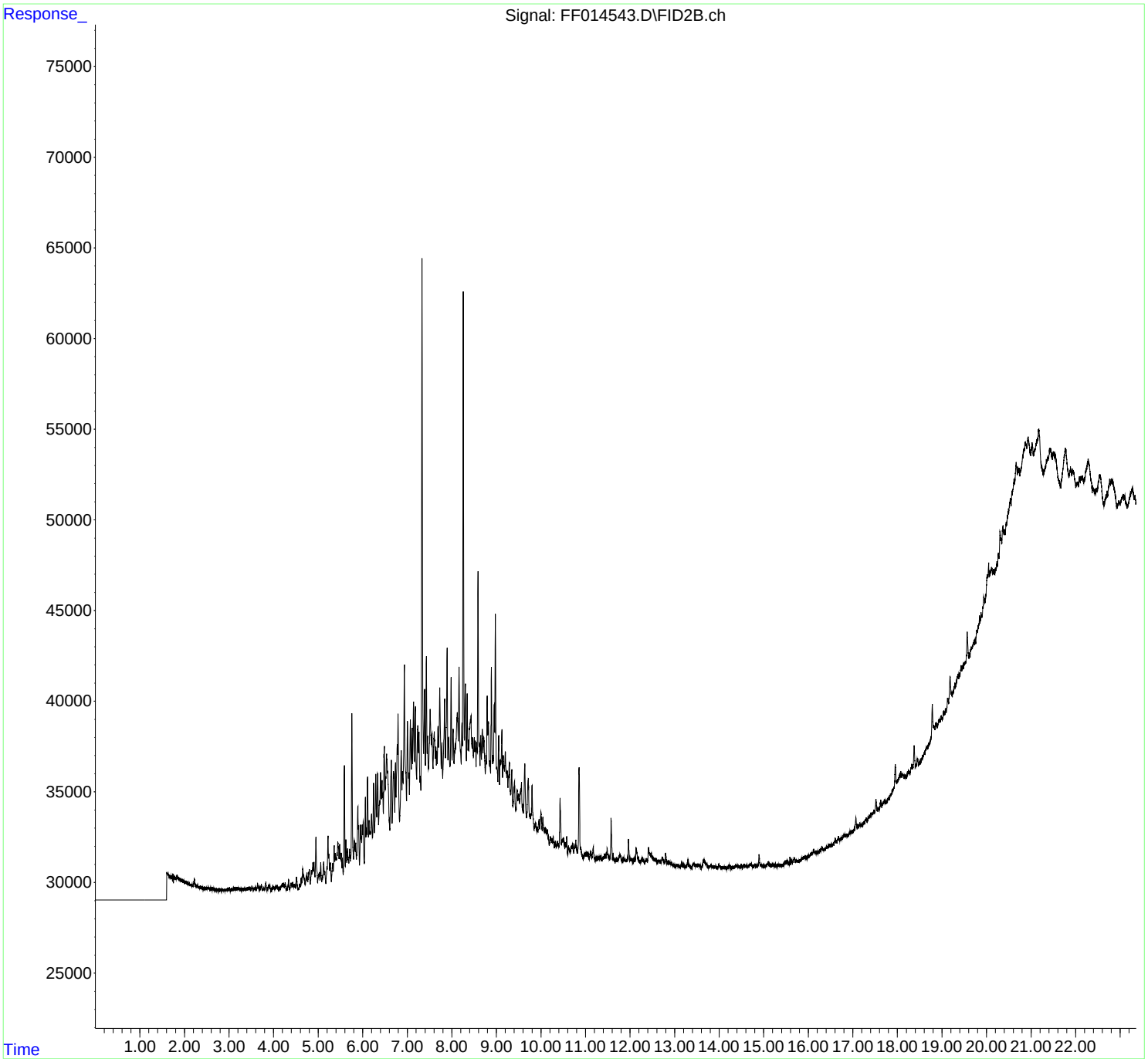
(f)=RT Delta > 1/2 Window (m)=manual int.

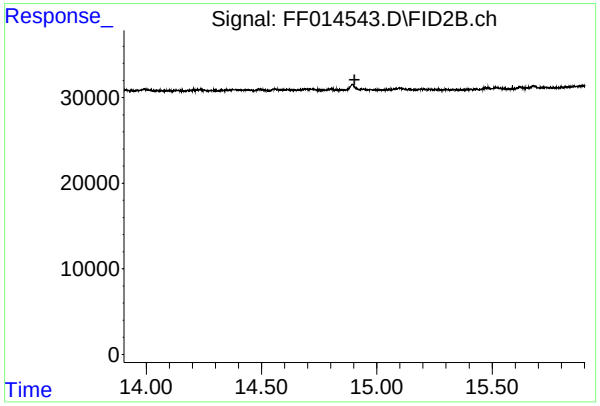
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014543.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 21:55
Operator : YP\AJ
Sample : P4103-01 200X
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-22A

Integration File: autoint1.e
Quant Time: Sep 20 02:28:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 0.000 min
Exp R.T. : 14.903 min
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
WC-22A

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014543.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 21:55
Sample : P4103-01 200X
Misc :
ALS Vial : 81 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.302	3.290	3.324	BV	77	328	0.06%	0.002%
2	4.463	4.459	4.494	VV	308	4837	0.85%	0.025%
3	4.513	4.494	4.568	VV	708	12870	2.26%	0.066%
4	4.594	4.568	4.604	VV	287	4516	0.79%	0.023%
5	4.619	4.604	4.636	VV	643	8765	1.54%	0.045%
6	4.655	4.636	4.711	VV	1165	30072	5.28%	0.155%
7	4.729	4.711	4.737	VV	675	7806	1.37%	0.040%
8	4.751	4.737	4.769	VV	927	12730	2.23%	0.066%
9	4.805	4.769	4.823	VV	1086	24731	4.34%	0.128%
10	4.846	4.823	4.859	VV	1041	15968	2.80%	0.082%
11	4.883	4.859	4.895	VV	1428	25057	4.40%	0.129%
12	4.908	4.895	4.929	VV	1486	22341	3.92%	0.115%
13	4.951	4.929	4.990	VV	2860	49902	8.76%	0.257%
14	5.026	4.990	5.041	VV	907	20728	3.64%	0.107%
15	5.059	5.041	5.082	VV	1415	20508	3.60%	0.106%
16	5.098	5.082	5.103	VV	642	6789	1.19%	0.035%
17	5.125	5.103	5.141	VV	1429	24167	4.24%	0.125%
18	5.150	5.141	5.171	VV	908	12503	2.19%	0.064%
19	5.198	5.171	5.204	VV	1180	15857	2.78%	0.082%
20	5.222	5.204	5.234	VV	2894	36925	6.48%	0.190%
21	5.242	5.234	5.257	VV	1884	21159	3.71%	0.109%
22	5.276	5.257	5.298	VV	1374	25420	4.46%	0.131%
23	5.328	5.298	5.342	VV	1379	26162	4.59%	0.135%
24	5.361	5.342	5.373	VV	2343	32342	5.68%	0.167%
25	5.385	5.373	5.398	VV	1919	25216	4.43%	0.130%
26	5.402	5.398	5.409	VV	1710	11492	2.02%	0.059%
27	5.422	5.409	5.429	VV	1945	20816	3.65%	0.107%
28	5.442	5.429	5.470	VV	2517	53163	9.33%	0.274%
29	5.482	5.470	5.505	VV	2402	41455	7.28%	0.214%
30	5.517	5.505	5.534	VV	1886	27415	4.81%	0.141%
31	5.546	5.534	5.564	VV	1615	21594	3.79%	0.111%
32	5.589	5.564	5.609	VV	6713	87565	15.37%	0.452%
33	5.623	5.609	5.643	VV	2628	37895	6.65%	0.195%
34	5.659	5.643	5.688	VV	2148	44364	7.79%	0.229%
35	5.707	5.688	5.722	VV	2078	36187	6.35%	0.187%
36	5.758	5.722	5.795	VV	9578	161640	28.37%	0.834%

rteres

37	5.811	5.795	5.832	VV	2574	47431	8.33%	0.245%
38	5.843	5.832	5.860	VV	2433	34045	5.98%	0.176%
39	5.891	5.860	5.905	VV	4426	75640	13.28%	0.390%
40	5.909	5.905	5.929	VV	3348	35433	6.22%	0.183%
41	5.952	5.929	5.979	VV	3346	74649	13.10%	0.385%
42	5.991	5.979	6.001	VV	3404	40975	7.19%	0.211%
43	6.011	6.001	6.038	VV	3550	53856	9.45%	0.278%
44	6.061	6.038	6.075	VV	4915	68599	12.04%	0.354%
45	6.084	6.075	6.092	VV	3238	31421	5.52%	0.162%
46	6.109	6.092	6.129	VV	6027	99092	17.39%	0.511%
47	6.142	6.129	6.156	VV	3633	51004	8.95%	0.263%
48	6.161	6.156	6.170	VV	2938	24818	4.36%	0.128%
49	6.199	6.170	6.221	VV	3981	99556	17.47%	0.514%
50	6.246	6.221	6.264	VV	5663	102812	18.05%	0.530%
51	6.295	6.264	6.318	VV	6149	141899	24.91%	0.732%
52	6.337	6.318	6.357	VV	6163	115668	20.30%	0.597%
53	6.379	6.357	6.385	VV	4659	70738	12.42%	0.365%
54	6.401	6.385	6.421	VV	6240	115812	20.33%	0.597%
55	6.435	6.421	6.448	VV	5778	84303	14.80%	0.435%
56	6.452	6.448	6.464	VV	5013	46035	8.08%	0.237%
57	6.485	6.464	6.504	VV	7683	146200	25.66%	0.754%
58	6.536	6.504	6.611	VV	7227	350138	61.46%	1.806%
59	6.643	6.611	6.662	VV	6860	157247	27.60%	0.811%
60	6.692	6.662	6.700	VV	6216	118025	20.72%	0.609%
61	6.706	6.700	6.721	VV	6078	67446	11.84%	0.348%
62	6.735	6.721	6.748	VV	6716	87509	15.36%	0.451%
63	6.776	6.748	6.785	VV	7733	143132	25.12%	0.738%
64	6.795	6.785	6.826	VV	9425	159839	28.06%	0.825%
65	6.866	6.826	6.882	VV	7377	180424	31.67%	0.931%
66	6.894	6.882	6.907	VV	6155	87399	15.34%	0.451%
67	6.936	6.907	6.985	VV	12059	345177	60.59%	1.781%
68	7.006	6.985	7.030	VV	8936	187688	32.94%	0.968%
69	7.037	7.030	7.049	VV	6120	65862	11.56%	0.340%
70	7.071	7.049	7.091	VV	9051	182288	32.00%	0.940%
71	7.107	7.091	7.120	VV	8560	129539	22.74%	0.668%
72	7.142	7.120	7.163	VV	10011	209161	36.71%	1.079%
73	7.182	7.163	7.212	VV	9747	230767	40.51%	1.190%
74	7.236	7.212	7.252	VV	8700	183721	32.25%	0.948%
75	7.264	7.252	7.286	VV	8264	143991	25.27%	0.743%
76	7.293	7.286	7.305	VV	5911	66960	11.75%	0.345%
77	7.333	7.305	7.368	VV	34381	569712	100.00%	2.939%
78	7.389	7.368	7.408	VV	10672	203982	35.80%	1.052%
79	7.430	7.408	7.448	VV	12476	222296	39.02%	1.147%
80	7.458	7.448	7.474	VV	8067	115694	20.31%	0.597%
81	7.515	7.474	7.545	VV	9574	332596	58.38%	1.716%
82	7.555	7.545	7.580	VV	8216	158642	27.85%	0.818%
83	7.606	7.580	7.632	VV	8301	232302	40.78%	1.198%
84	7.641	7.632	7.653	VV	7448	88862	15.60%	0.458%
85	7.665	7.653	7.676	VV	7134	95818	16.82%	0.494%
86	7.690	7.676	7.704	VV	8579	129154	22.67%	0.666%
87	7.731	7.704	7.765	VV	10705	307625	54.00%	1.587%
88	7.778	7.765	7.796	VV	7704	127893	22.45%	0.660%
89	7.839	7.796	7.860	VV	10089	292303	51.31%	1.508%

90	7.896	7.860	7.914	VV	12903	300149	52.68%	1.548%
91	7.927	7.914	7.958	VV	7934	191168	33.56%	0.986%
92	7.985	7.958	8.009	VV	11229	247502	43.44%	1.277%
93	8.029	8.009	8.054	VV	8400	200928	35.27%	1.036%
94	8.077	8.054	8.086	VV	7564	140822	24.72%	0.726%
95	8.124	8.086	8.148	VV	9289	309328	54.30%	1.596%
96	8.164	8.148	8.211	VV	11764	322721	56.65%	1.665%
97	8.228	8.211	8.238	VV	8732	126214	22.15%	0.651%
98	8.258	8.238	8.284	VV	32497	467729	82.10%	2.413%
99	8.305	8.284	8.329	VV	10835	237089	41.62%	1.223%
100	8.346	8.329	8.364	VV	10318	179841	31.57%	0.928%
101	8.374	8.364	8.386	VV	7770	96330	16.91%	0.497%
102	8.418	8.386	8.423	VV	8865	184160	32.33%	0.950%
103	8.430	8.423	8.454	VV	9058	156343	27.44%	0.807%
104	8.465	8.454	8.483	VV	7865	127059	22.30%	0.655%
105	8.504	8.483	8.519	VV	7859	160084	28.10%	0.826%
106	8.530	8.519	8.545	VV	7679	110829	19.45%	0.572%
107	8.559	8.545	8.570	VV	7561	107571	18.88%	0.555%
108	8.590	8.570	8.610	VV	17020	270751	47.52%	1.397%
109	8.614	8.610	8.634	VV	7541	101823	17.87%	0.525%
110	8.650	8.634	8.666	VV	7962	138785	24.36%	0.716%
111	8.686	8.666	8.702	VV	8301	161345	28.32%	0.832%
112	8.716	8.702	8.755	VV	7854	224031	39.32%	1.156%
113	8.768	8.755	8.777	VV	6832	81635	14.33%	0.421%
114	8.795	8.777	8.810	VV	10127	169686	29.78%	0.875%
115	8.822	8.810	8.848	VV	8691	174500	30.63%	0.900%
116	8.857	8.848	8.869	VV	6522	79600	13.97%	0.411%
117	8.889	8.869	8.913	VV	11667	222003	38.97%	1.145%
118	8.923	8.913	8.933	VV	6817	79557	13.96%	0.410%
119	8.952	8.933	8.963	VV	9657	151304	26.56%	0.781%
120	8.979	8.963	9.008	VV	14581	258274	45.33%	1.332%
121	9.012	9.008	9.034	VV	6168	91336	16.03%	0.471%
122	9.053	9.034	9.070	VV	7873	141727	24.88%	0.731%
123	9.090	9.070	9.096	VV	6517	95172	16.71%	0.491%
124	9.125	9.096	9.140	VV	8216	182888	32.10%	0.943%
125	9.155	9.140	9.170	VV	6796	113451	19.91%	0.585%
126	9.174	9.170	9.183	VV	6225	45800	8.04%	0.236%
127	9.201	9.183	9.235	VV	6979	196484	34.49%	1.014%
128	9.245	9.235	9.260	VV	5893	81649	14.33%	0.421%
129	9.293	9.260	9.324	VV	6411	210593	36.96%	1.086%
130	9.347	9.324	9.371	VV	5999	141096	24.77%	0.728%
131	9.407	9.371	9.440	VV	5342	186634	32.76%	0.963%
132	9.466	9.440	9.484	VV	4832	112406	19.73%	0.580%
133	9.503	9.484	9.518	VV	4605	91254	16.02%	0.471%
134	9.548	9.518	9.553	VV	4847	94955	16.67%	0.490%
135	9.564	9.553	9.582	VV	5276	81532	14.31%	0.421%
136	9.590	9.582	9.604	VV	4039	52095	9.14%	0.269%
137	9.637	9.604	9.678	VV	6281	198189	34.79%	1.022%
138	9.715	9.678	9.743	VV	5431	169386	29.73%	0.874%
139	9.750	9.743	9.763	VV	3487	39514	6.94%	0.204%
140	9.801	9.763	9.846	VV	5059	181819	31.91%	0.938%
141	9.880	9.846	9.907	VV	2987	100742	17.68%	0.520%

142	9.921	9.907	9.934	VV	2742	42039	7.38%	0.217%
143	9.956	9.934	9.975	VV	3148	71544	12.56%	0.369%
144	9.999	9.975	10.029	VV	3541	97994	17.20%	0.506%
145	10.045	10.029	10.062	VV	3282	58469	10.26%	0.302%
146	10.071	10.062	10.086	VV	2719	37901	6.65%	0.196%
147	10.101	10.086	10.114	VV	2678	41616	7.30%	0.215%
148	10.127	10.114	10.142	VV	2499	41250	7.24%	0.213%
149	10.148	10.142	10.185	VV	2543	56578	9.93%	0.292%
150	10.209	10.185	10.245	VV	2176	71637	12.57%	0.370%
151	10.248	10.245	10.262	VV	2062	19563	3.43%	0.101%
152	10.276	10.262	10.303	VV	2134	46288	8.12%	0.239%
153	10.320	10.303	10.346	VV	1905	44770	7.86%	0.231%
154	10.370	10.346	10.383	VV	1901	38226	6.71%	0.197%
155	10.388	10.383	10.403	VV	1755	20145	3.54%	0.104%
156	10.431	10.403	10.462	VV	4241	96163	16.88%	0.496%
157	10.477	10.462	10.487	VV	1994	27968	4.91%	0.144%
158	10.504	10.487	10.529	VV	2089	48659	8.54%	0.251%
159	10.533	10.529	10.537	VV	1620	7128	1.25%	0.037%
160	10.544	10.537	10.564	VV	1797	26303	4.62%	0.136%
161	10.577	10.564	10.600	VV	2136	36606	6.43%	0.189%
162	10.622	10.600	10.660	VV	1596	49998	8.78%	0.258%
163	10.686	10.660	10.697	VV	1595	32132	5.64%	0.166%
164	10.714	10.697	10.737	VV	1753	36559	6.42%	0.189%
165	10.756	10.737	10.764	VV	1570	22559	3.96%	0.116%
166	10.784	10.764	10.816	VV	1855	49054	8.61%	0.253%
167	10.856	10.816	10.938	VV	5835	154730	27.16%	0.798%
168	10.942	10.938	10.950	VV	929	6348	1.11%	0.033%
169	10.981	10.950	11.005	VV	1144	35214	6.18%	0.182%
170	11.014	11.005	11.033	VV	1195	18131	3.18%	0.094%
171	11.042	11.033	11.081	VV	1236	30874	5.42%	0.159%
172	11.117	11.081	11.145	VV	1216	39031	6.85%	0.201%
173	11.177	11.145	11.215	VV	1458	44527	7.82%	0.230%
174	11.240	11.215	11.246	VV	941	15118	2.65%	0.078%
175	11.260	11.246	11.272	VV	975	13127	2.30%	0.068%
176	11.277	11.272	11.283	VV	853	5460	0.96%	0.028%
177	11.287	11.283	11.300	VV	906	8709	1.53%	0.045%
178	11.313	11.300	11.318	VV	933	9121	1.60%	0.047%
179	11.338	11.318	11.362	VV	972	22498	3.95%	0.116%
180	11.380	11.362	11.385	VV	846	11304	1.98%	0.058%
181	11.389	11.385	11.397	VV	877	5672	1.00%	0.029%
182	11.403	11.397	11.413	VV	905	8066	1.42%	0.042%
183	11.434	11.413	11.461	VV	1058	27099	4.76%	0.140%
184	11.484	11.461	11.515	VV	1352	34667	6.08%	0.179%
185	11.519	11.515	11.551	VV	964	17720	3.11%	0.091%
186	11.576	11.551	11.603	VV	2975	55014	9.66%	0.284%
187	11.620	11.603	11.632	VV	1050	13841	2.43%	0.071%
188	11.640	11.632	11.664	VV	778	13475	2.37%	0.070%
189	11.692	11.664	11.700	VV	784	14721	2.58%	0.076%
190	11.713	11.700	11.725	VV	714	10033	1.76%	0.052%
191	11.734	11.725	11.741	VV	717	6665	1.17%	0.034%
192	11.775	11.741	11.833	VV	977	43127	7.57%	0.222%
193	11.851	11.833	11.856	VV	812	9784	1.72%	0.050%
194	11.860	11.856	11.904	VV	836	19382	3.40%	0.100%

rteres

195	11.932	11.904	11.940	VV	694	13508	2.37%	0.070%
196	11.964	11.940	11.988	VV	1778	32686	5.74%	0.169%
197	11.992	11.988	12.010	VV	801	8962	1.57%	0.046%
198	12.026	12.010	12.038	VV	752	11562	2.03%	0.060%
199	12.042	12.038	12.057	VV	681	7179	1.26%	0.037%
200	12.062	12.057	12.073	VV	573	5312	0.93%	0.027%
201	12.092	12.073	12.103	VV	746	11306	1.98%	0.058%
202	12.135	12.103	12.172	VV	1268	37596	6.60%	0.194%
203	12.175	12.172	12.187	VV	765	6129	1.08%	0.032%
204	12.191	12.187	12.210	VV	721	8186	1.44%	0.042%
205	12.221	12.210	12.233	VV	585	7332	1.29%	0.038%
206	12.277	12.233	12.325	VV	763	32848	5.77%	0.169%
207	12.369	12.325	12.390	VV	691	21594	3.79%	0.111%
208	12.414	12.390	12.470	VV	1275	45125	7.92%	0.233%
209	12.479	12.470	12.494	VV	936	11988	2.10%	0.062%
210	12.503	12.494	12.527	VV	750	13728	2.41%	0.071%
211	12.538	12.527	12.555	VV	691	9867	1.73%	0.051%
212	12.563	12.555	12.569	VV	594	4943	0.87%	0.025%
213	12.583	12.569	12.606	VV	685	12326	2.16%	0.064%
214	12.629	12.606	12.689	VV	575	23280	4.09%	0.120%
215	12.723	12.689	12.777	VV	725	27602	4.84%	0.142%
216	12.795	12.777	12.826	VV	900	17803	3.12%	0.092%
217	12.834	12.826	12.846	VV	442	4427	0.78%	0.023%
218	12.861	12.846	12.873	VV	493	6281	1.10%	0.032%
219	12.879	12.873	12.884	VV	360	2243	0.39%	0.012%
220	12.889	12.884	12.904	VV	419	4262	0.75%	0.022%
221	12.920	12.904	12.926	VV	375	4513	0.79%	0.023%
222	12.934	12.926	13.039	VV	369	14892	2.61%	0.077%
223	13.046	13.039	13.063	VV	233	3027	0.53%	0.016%
224	13.067	13.063	13.089	VV	262	3131	0.55%	0.016%
225	13.102	13.089	13.119	VV	205	2642	0.46%	0.014%
226	13.126	13.119	13.135	VV	147	1258	0.22%	0.006%
227	13.155	13.135	13.190	VV	345	7153	1.26%	0.037%
228	13.193	13.190	13.199	VV	136	741	0.13%	0.004%
229	13.206	13.199	13.226	VV	228	2571	0.45%	0.013%
230	13.243	13.226	13.274	VV	184	3632	0.64%	0.019%
231	13.296	13.274	13.321	VV	485	7458	1.31%	0.038%
232	13.338	13.321	13.371	VB	188	3207	0.56%	0.017%
233	13.431	13.372	13.465	BV	267	7513	1.32%	0.039%
234	13.470	13.465	13.474	VV	188	903	0.16%	0.005%
235	13.481	13.474	13.506	VV	208	2759	0.48%	0.014%
236	13.518	13.506	13.545	VV	218	3786	0.66%	0.020%
237	13.562	13.545	13.582	VV	224	3739	0.66%	0.019%
238	13.584	13.582	13.597	VV	200	640	0.11%	0.003%
239	13.603	13.597	13.606	PV	75	268	0.05%	0.001%
240	13.654	13.606	13.669	VV	521	12223	2.15%	0.063%
241	13.674	13.669	13.746	VV	466	12627	2.22%	0.065%
242	13.780	13.746	13.802	VV	186	4612	0.81%	0.024%
243	13.809	13.802	13.832	VV	293	3630	0.64%	0.019%
244	13.837	13.832	13.844	VV	190	1190	0.21%	0.006%
245	13.848	13.844	13.854	VV	163	811	0.14%	0.004%
246	13.862	13.854	13.881	VV	170	2026	0.36%	0.010%

rteres

247	13.884	13.881	13.894	VV	113	808	0.14%	0.004%
248	13.901	13.894	13.906	VV	195	967	0.17%	0.005%
249	13.912	13.906	13.929	VV	166	1852	0.33%	0.010%
250	13.938	13.929	13.956	VV	127	1345	0.24%	0.007%
251	13.992	13.956	14.027	VV	315	7390	1.30%	0.038%
252	14.031	14.027	14.050	VV	130	1489	0.26%	0.008%
253	14.054	14.050	14.085	VV	113	1999	0.35%	0.010%
254	14.107	14.085	14.112	VV	163	1677	0.29%	0.009%
255	14.131	14.112	14.144	VV	168	2407	0.42%	0.012%
256	14.149	14.144	14.168	VV	167	1267	0.22%	0.007%
257	14.205	14.168	14.212	PV	196	3229	0.57%	0.017%
258	14.221	14.212	14.247	VV	252	4172	0.73%	0.022%
259	14.253	14.247	14.276	VV	181	1980	0.35%	0.010%
260	14.304	14.276	14.321	VV	148	2798	0.49%	0.014%
261	14.335	14.321	14.357	VV	168	2903	0.51%	0.015%
262	14.361	14.357	14.369	VV	160	1031	0.18%	0.005%
263	14.375	14.369	14.382	VV	222	1577	0.28%	0.008%
264	14.389	14.382	14.401	VV	209	1920	0.34%	0.010%
265	14.404	14.401	14.426	VV	196	2097	0.37%	0.011%
266	14.430	14.426	14.433	VV	170	644	0.11%	0.003%
267	14.437	14.433	14.450	VV	190	1526	0.27%	0.008%
268	14.458	14.450	14.464	VV	145	995	0.17%	0.005%
269	14.497	14.464	14.531	VV	290	5708	1.00%	0.029%
270	14.534	14.531	14.537	VV	92	277	0.05%	0.001%
271	14.553	14.537	14.589	VV	256	5062	0.89%	0.026%
272	14.596	14.589	14.604	VV	171	1305	0.23%	0.007%
273	14.610	14.604	14.637	VV	181	2777	0.49%	0.014%
274	14.658	14.637	14.664	VV	151	1755	0.31%	0.009%
275	14.669	14.664	14.674	VV	192	861	0.15%	0.004%
276	14.688	14.674	14.716	VV	253	5035	0.88%	0.026%
277	14.722	14.716	14.745	VV	255	2832	0.50%	0.015%
278	14.751	14.745	14.779	VV	161	2024	0.36%	0.010%
279	14.803	14.779	14.817	VV	221	3554	0.62%	0.018%
280	14.824	14.817	14.862	VV	190	2747	0.48%	0.014%
281	14.894	14.862	14.926	VV	735	12784	2.24%	0.066%
282	14.939	14.926	14.982	VV	144	4185	0.73%	0.022%
283	14.992	14.982	15.022	VV	156	1926	0.34%	0.010%
284	15.098	15.022	15.130	VV	283	9858	1.73%	0.051%
285	15.141	15.130	15.167	VV	183	2383	0.42%	0.012%
286	15.186	15.167	15.246	VV	141	4965	0.87%	0.026%
287	15.253	15.246	15.260	VV	135	734	0.13%	0.004%
288	15.270	15.260	15.282	VV	111	969	0.17%	0.005%
289	15.303	15.282	15.317	VV	126	1486	0.26%	0.008%

Sum of corrected areas: 19385285

FF091124.M Fri Sep 20 03:34:01 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-14-5-7.5A	SDG No.:	P4103
Lab Sample ID:	P4103-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.8 Decanted:
Sample Wt/Vol:	30.09 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
FF014544.D	50	09/19/24 11:09	09/19/24 22:24	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	346000		10300	92500	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.00	*	37 - 130	0%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014544.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 22:24
Operator : YP\AJ
Sample : P4103-04 50X
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5A

Integration File: autoint1.e
Quant Time: Sep 20 02:29:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

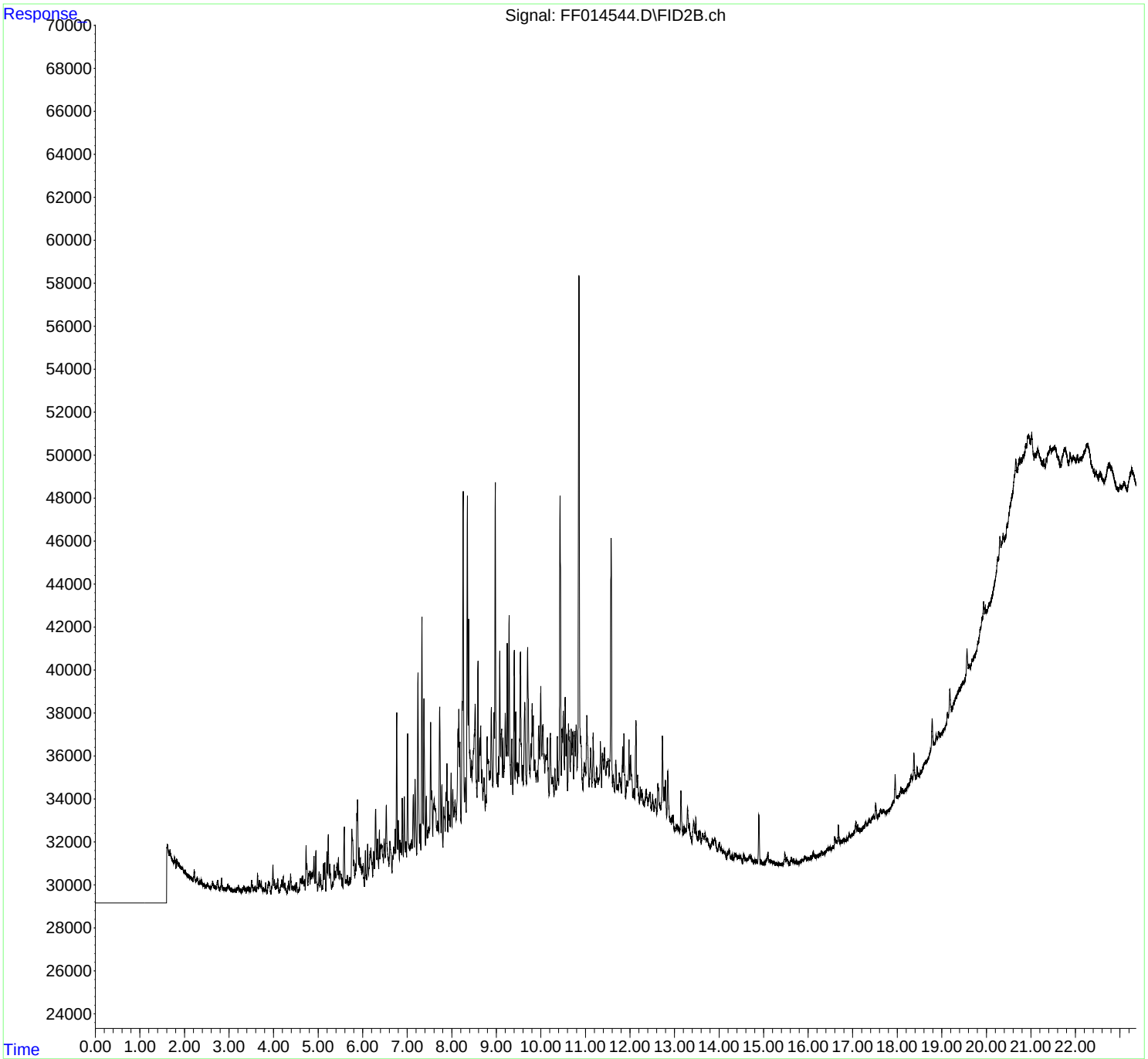
(f)=RT Delta > 1/2 Window (m)=manual int.

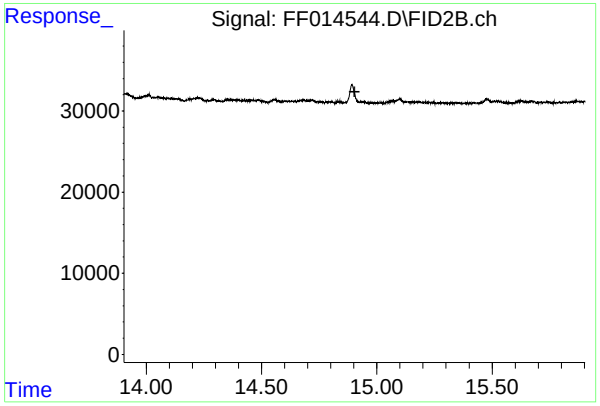
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014544.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 22:24
Operator : YP\AJ
Sample : P4103-04 50X
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5A

Integration File: autoint1.e
Quant Time: Sep 20 02:29:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 0.000 min
Exp R.T. : 14.903 mi
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5A

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014544.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 22:24
Sample : P4103-04 50X
Misc :
ALS Vial : 82 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.384	4.366	4.419	VV	889	14028	2.45%	0.064%
2	4.435	4.419	4.462	VV	311	6053	1.06%	0.028%
3	4.467	4.462	4.471	VV	233	1117	0.20%	0.005%
4	4.478	4.471	4.495	VV	373	3305	0.58%	0.015%
5	4.519	4.495	4.537	VV	480	6698	1.17%	0.030%
6	4.547	4.537	4.563	VV	150	1527	0.27%	0.007%
7	4.573	4.563	4.582	VV	211	1507	0.26%	0.007%
8	4.599	4.582	4.608	VV	642	7127	1.25%	0.032%
9	4.617	4.608	4.639	VV	643	9780	1.71%	0.045%
10	4.653	4.639	4.686	VV	781	14895	2.60%	0.068%
11	4.700	4.686	4.713	VV	575	6845	1.20%	0.031%
12	4.730	4.713	4.744	VV	2156	24163	4.22%	0.110%
13	4.750	4.744	4.770	VV	1317	13012	2.27%	0.059%
14	4.788	4.770	4.793	VV	858	8841	1.55%	0.040%
15	4.803	4.793	4.820	VV	932	12365	2.16%	0.056%
16	4.835	4.820	4.851	VV	953	13305	2.33%	0.061%
17	4.865	4.851	4.873	VV	856	10088	1.76%	0.046%
18	4.880	4.873	4.890	VV	871	8671	1.52%	0.039%
19	4.909	4.890	4.931	VV	1661	24942	4.36%	0.114%
20	4.950	4.931	4.993	VV	1911	28144	4.92%	0.128%
21	5.025	4.993	5.042	VV	894	12981	2.27%	0.059%
22	5.060	5.042	5.083	VV	819	10001	1.75%	0.046%
23	5.092	5.083	5.098	VV	246	1536	0.27%	0.007%
24	5.123	5.098	5.136	VV	1268	14996	2.62%	0.068%
25	5.152	5.136	5.173	VV	1317	17196	3.01%	0.078%
26	5.198	5.173	5.212	PV	1831	20634	3.61%	0.094%
27	5.228	5.212	5.252	VV	2621	37410	6.54%	0.170%
28	5.265	5.252	5.301	VV	1244	20581	3.60%	0.094%
29	5.326	5.301	5.337	VV	407	5801	1.01%	0.026%
30	5.360	5.337	5.373	VV	1192	15285	2.67%	0.070%
31	5.385	5.373	5.395	VV	910	10218	1.79%	0.047%
32	5.401	5.395	5.410	VV	745	6257	1.09%	0.028%
33	5.427	5.410	5.444	VV	1253	20488	3.58%	0.093%
34	5.457	5.444	5.473	VV	1539	18541	3.24%	0.084%
35	5.481	5.473	5.510	VV	868	16579	2.90%	0.075%
36	5.519	5.510	5.533	VV	760	7714	1.35%	0.035%

rteres

37	5.545	5.533	5.561	VV	576	6100	1.07%	0.028%
38	5.588	5.561	5.614	VV	2933	45137	7.89%	0.205%
39	5.623	5.614	5.638	VV	483	5961	1.04%	0.027%
40	5.658	5.638	5.687	VV	692	12916	2.26%	0.059%
41	5.708	5.687	5.721	VV	596	8259	1.44%	0.038%
42	5.732	5.721	5.740	VV	582	5423	0.95%	0.025%
43	5.759	5.740	5.798	VV	2814	67653	11.83%	0.308%
44	5.805	5.798	5.826	VV	1306	16433	2.87%	0.075%
45	5.844	5.826	5.853	VV	1208	15102	2.64%	0.069%
46	5.870	5.853	5.875	VV	3550	33548	5.86%	0.153%
47	5.887	5.875	5.911	VV	4181	59463	10.39%	0.271%
48	5.924	5.911	5.938	VV	1923	24374	4.26%	0.111%
49	5.948	5.938	5.979	VV	1456	26688	4.67%	0.121%
50	5.990	5.979	6.001	VV	1043	12062	2.11%	0.055%
51	6.014	6.001	6.041	VV	1152	15958	2.79%	0.073%
52	6.062	6.041	6.078	VV	1777	20679	3.61%	0.094%
53	6.083	6.078	6.090	VV	599	4198	0.73%	0.019%
54	6.113	6.090	6.132	VV	2056	31656	5.53%	0.144%
55	6.144	6.132	6.151	VV	968	10011	1.75%	0.046%
56	6.166	6.151	6.173	VV	1735	19136	3.35%	0.087%
57	6.186	6.173	6.227	VV	1891	41978	7.34%	0.191%
58	6.247	6.227	6.269	VV	1710	31042	5.43%	0.141%
59	6.291	6.269	6.318	VV	3671	68190	11.92%	0.310%
60	6.332	6.318	6.360	VV	2253	41092	7.18%	0.187%
61	6.376	6.360	6.390	VV	2712	33337	5.83%	0.152%
62	6.403	6.390	6.412	VV	1980	23468	4.10%	0.107%
63	6.420	6.412	6.427	VV	2010	18545	3.24%	0.084%
64	6.432	6.427	6.446	VV	1951	19683	3.44%	0.090%
65	6.451	6.446	6.468	VV	1581	19111	3.34%	0.087%
66	6.484	6.468	6.506	VV	2297	40832	7.14%	0.186%
67	6.531	6.506	6.573	VV	3842	89639	15.67%	0.408%
68	6.577	6.573	6.591	VV	1355	13238	2.31%	0.060%
69	6.614	6.591	6.659	VV	2117	61680	10.78%	0.281%
70	6.695	6.659	6.716	VV	1892	49755	8.70%	0.226%
71	6.731	6.716	6.745	VV	2707	37546	6.56%	0.171%
72	6.766	6.745	6.786	VV	8115	108672	19.00%	0.495%
73	6.801	6.786	6.827	VV	3102	54379	9.51%	0.248%
74	6.838	6.827	6.850	VV	2177	25355	4.43%	0.115%
75	6.860	6.850	6.875	VV	2034	27702	4.84%	0.126%
76	6.890	6.875	6.914	VV	4138	60942	10.65%	0.277%
77	6.935	6.914	6.961	VV	4157	72847	12.73%	0.332%
78	6.973	6.961	6.986	VV	2095	26730	4.67%	0.122%
79	7.011	6.986	7.056	VV	7092	128733	22.50%	0.586%
80	7.072	7.056	7.080	VV	1985	26811	4.69%	0.122%
81	7.101	7.080	7.117	VV	2165	44152	7.72%	0.201%
82	7.138	7.117	7.161	VV	4255	80839	14.13%	0.368%
83	7.178	7.161	7.212	VV	4973	98594	17.23%	0.449%
84	7.242	7.212	7.277	VV	9909	182118	31.84%	0.829%
85	7.290	7.277	7.306	VV	2887	40600	7.10%	0.185%
86	7.332	7.306	7.358	VV	12464	187365	32.75%	0.853%
87	7.377	7.358	7.411	VV	8695	159344	27.85%	0.725%
88	7.430	7.411	7.447	VV	4101	66071	11.55%	0.301%
89	7.455	7.447	7.467	VV	2562	28580	5.00%	0.130%

90	7.480	7.467	7.490	VV	2729	35584	6.22%	0.162%
91	7.527	7.490	7.545	VV	7581	141026	24.65%	0.642%
92	7.555	7.545	7.575	VV	4394	65071	11.37%	0.296%
93	7.591	7.575	7.596	VV	3722	40128	7.01%	0.183%
94	7.606	7.596	7.665	VV	3998	141082	24.66%	0.642%
95	7.667	7.665	7.671	VV	2718	9941	1.74%	0.045%
96	7.683	7.671	7.707	VV	2961	58358	10.20%	0.266%
97	7.730	7.707	7.761	VV	8278	169027	29.55%	0.769%
98	7.779	7.761	7.802	VV	4653	76344	13.35%	0.348%
99	7.822	7.802	7.853	VV	3606	89334	15.62%	0.407%
100	7.870	7.853	7.880	VV	4249	58038	10.15%	0.264%
101	7.895	7.880	7.912	VV	5616	82080	14.35%	0.374%
102	7.926	7.912	7.939	VV	3851	54986	9.61%	0.250%
103	7.944	7.939	7.957	VV	3140	32585	5.70%	0.148%
104	7.987	7.957	8.007	VV	5148	104749	18.31%	0.477%
105	8.025	8.007	8.052	VV	4401	96283	16.83%	0.438%
106	8.074	8.052	8.097	VV	3853	94614	16.54%	0.431%
107	8.141	8.097	8.150	VV	7211	152768	26.70%	0.695%
108	8.161	8.150	8.175	VV	8126	103459	18.09%	0.471%
109	8.184	8.175	8.212	VV	6579	101321	17.71%	0.461%
110	8.234	8.212	8.238	VV	8468	92750	16.21%	0.422%
111	8.257	8.238	8.289	VV	18194	298668	52.21%	1.360%
112	8.306	8.289	8.324	VV	4906	89779	15.69%	0.409%
113	8.352	8.324	8.368	VV	18002	264573	46.25%	1.204%
114	8.381	8.368	8.402	VV	12272	182332	31.87%	0.830%
115	8.409	8.402	8.426	VV	6169	82021	14.34%	0.373%
116	8.443	8.426	8.457	VV	5657	95021	16.61%	0.433%
117	8.488	8.457	8.493	VV	6159	121277	21.20%	0.552%
118	8.528	8.493	8.569	VV	8300	283708	49.59%	1.291%
119	8.590	8.569	8.607	VV	10304	158321	27.68%	0.721%
120	8.628	8.607	8.638	VV	6708	108933	19.04%	0.496%
121	8.651	8.638	8.668	VV	7303	113915	19.91%	0.519%
122	8.679	8.668	8.702	VV	5218	93267	16.30%	0.425%
123	8.726	8.702	8.754	VV	4859	134316	23.48%	0.611%
124	8.767	8.754	8.777	VV	4046	52687	9.21%	0.240%
125	8.795	8.777	8.807	VV	6758	99615	17.41%	0.453%
126	8.813	8.807	8.845	VV	5677	121292	21.20%	0.552%
127	8.856	8.845	8.866	VV	5161	61558	10.76%	0.280%
128	8.890	8.866	8.926	VV	8121	212641	37.17%	0.968%
129	8.951	8.926	8.961	VV	7843	134899	23.58%	0.614%
130	8.979	8.961	9.015	VV	18465	308694	53.96%	1.405%
131	9.027	9.015	9.038	VV	5080	65825	11.51%	0.300%
132	9.053	9.038	9.062	VV	5806	76034	13.29%	0.346%
133	9.079	9.062	9.099	VV	10728	170548	29.81%	0.776%
134	9.120	9.099	9.138	VV	7060	149604	26.15%	0.681%
135	9.151	9.138	9.171	VV	6654	110868	19.38%	0.505%
136	9.203	9.171	9.231	VV	7815	224749	39.29%	1.023%
137	9.248	9.231	9.266	VV	11055	168707	29.49%	0.768%
138	9.289	9.266	9.328	VV	12343	278923	48.76%	1.270%
139	9.349	9.328	9.371	VV	6527	135336	23.66%	0.616%
140	9.404	9.371	9.422	VV	10704	207840	36.33%	0.946%
141	9.438	9.422	9.454	VV	7846	117301	20.50%	0.534%

142	9.463	9.454	9.476	VV	5448	68502	11.97%	0.312%
143	9.489	9.476	9.506	VV	5377	93212	16.29%	0.424%
144	9.542	9.506	9.579	VV	10602	302380	52.86%	1.376%
145	9.592	9.579	9.606	VV	5329	80150	14.01%	0.365%
146	9.639	9.606	9.677	VV	8132	256028	44.76%	1.165%
147	9.704	9.677	9.759	VV	10819	342565	59.88%	1.559%
148	9.776	9.759	9.788	VV	6325	100978	17.65%	0.460%
149	9.805	9.788	9.819	VV	8066	131734	23.03%	0.600%
150	9.831	9.819	9.848	VV	7553	117010	20.45%	0.533%
151	9.867	9.848	9.896	VV	5528	145282	25.40%	0.661%
152	9.919	9.896	9.934	VV	5064	111007	19.40%	0.505%
153	9.953	9.934	9.977	VV	7146	156539	27.36%	0.713%
154	10.000	9.977	10.022	VV	8943	192095	33.58%	0.874%
155	10.047	10.022	10.066	VV	7143	173088	30.26%	0.788%
156	10.072	10.066	10.090	VV	5820	77070	13.47%	0.351%
157	10.118	10.090	10.130	VV	5752	132272	23.12%	0.602%
158	10.148	10.130	10.183	VV	6517	169976	29.71%	0.774%
159	10.213	10.183	10.246	VV	6728	197199	34.47%	0.898%
160	10.253	10.246	10.263	VV	4651	45613	7.97%	0.208%
161	10.273	10.263	10.296	VV	4666	88307	15.44%	0.402%
162	10.316	10.296	10.341	VV	5056	119657	20.92%	0.545%
163	10.370	10.341	10.401	VV	6604	179146	31.32%	0.816%
164	10.433	10.401	10.460	VV	17754	341394	59.68%	1.554%
165	10.477	10.460	10.487	VV	6926	100980	17.65%	0.460%
166	10.505	10.487	10.529	VV	7756	166449	29.10%	0.758%
167	10.546	10.529	10.567	VV	8390	155206	27.13%	0.707%
168	10.579	10.567	10.599	VV	6653	109599	19.16%	0.499%
169	10.623	10.599	10.635	VV	7125	125026	21.86%	0.569%
170	10.640	10.635	10.661	VV	6532	91564	16.01%	0.417%
171	10.682	10.661	10.697	VV	6911	132117	23.09%	0.601%
172	10.717	10.697	10.735	VV	6728	134824	23.57%	0.614%
173	10.760	10.735	10.776	VV	6695	141590	24.75%	0.645%
174	10.793	10.776	10.813	VV	7078	139029	24.30%	0.633%
175	10.856	10.813	10.890	VV	27931	572062	100.00%	2.604%
176	10.897	10.890	10.947	VV	6484	175485	30.68%	0.799%
177	10.976	10.947	11.009	VV	5262	182278	31.86%	0.830%
178	11.031	11.009	11.084	VV	7468	260819	45.59%	1.187%
179	11.118	11.084	11.145	VV	5927	183064	32.00%	0.833%
180	11.175	11.145	11.222	VV	6660	231497	40.47%	1.054%
181	11.254	11.222	11.288	VV	5046	179859	31.44%	0.819%
182	11.307	11.288	11.315	VV	4555	71365	12.47%	0.325%
183	11.338	11.315	11.360	VV	6261	139309	24.35%	0.634%
184	11.380	11.360	11.410	VV	5691	154975	27.09%	0.705%
185	11.427	11.410	11.462	VV	5868	162261	28.36%	0.739%
186	11.483	11.462	11.490	VV	5205	85056	14.87%	0.387%
187	11.504	11.490	11.535	VV	5425	138018	24.13%	0.628%
188	11.577	11.535	11.609	VV	15656	363454	63.53%	1.655%
189	11.621	11.609	11.651	VV	4609	109327	19.11%	0.498%
190	11.683	11.651	11.710	VV	5212	157321	27.50%	0.716%
191	11.714	11.710	11.720	VV	4138	24598	4.30%	0.112%
192	11.724	11.720	11.739	VV	4178	47235	8.26%	0.215%
193	11.760	11.739	11.774	VV	4738	92673	16.20%	0.422%
194	11.785	11.774	11.811	VV	4508	91615	16.01%	0.417%

195	11.833	11.811	11.848	VV	5937	108369	18.94%	0.493%
196	11.864	11.848	11.905	VV	6531	170669	29.83%	0.777%
197	11.931	11.905	11.937	VV	4325	78487	13.72%	0.357%
198	11.942	11.937	11.953	VV	4303	40251	7.04%	0.183%
199	11.979	11.953	11.997	VV	6253	132153	23.10%	0.602%
200	12.013	11.997	12.066	VV	5490	186286	32.56%	0.848%
201	12.091	12.066	12.106	VV	3954	90599	15.84%	0.412%
202	12.135	12.106	12.158	VV	7107	165491	28.93%	0.753%
203	12.171	12.158	12.213	VV	4571	128503	22.46%	0.585%
204	12.230	12.213	12.249	VV	4017	79752	13.94%	0.363%
205	12.266	12.249	12.278	VV	3898	62813	10.98%	0.286%
206	12.284	12.278	12.301	VV	3650	48686	8.51%	0.222%
207	12.307	12.301	12.323	VV	3354	42448	7.42%	0.193%
208	12.333	12.323	12.337	VV	3416	27928	4.88%	0.127%
209	12.362	12.337	12.368	VV	3883	67468	11.79%	0.307%
210	12.370	12.368	12.402	VV	3835	71660	12.53%	0.326%
211	12.432	12.402	12.436	VV	3628	67815	11.85%	0.309%
212	12.450	12.436	12.477	VV	3754	84333	14.74%	0.384%
213	12.480	12.477	12.486	VV	3024	16323	2.85%	0.074%
214	12.508	12.486	12.549	VV	3625	120506	21.07%	0.549%
215	12.564	12.549	12.569	VV	3382	38424	6.72%	0.175%
216	12.578	12.569	12.602	VV	3413	62824	10.98%	0.286%
217	12.627	12.602	12.637	VV	4124	73050	12.77%	0.333%
218	12.641	12.637	12.666	VV	3843	60855	10.64%	0.277%
219	12.671	12.666	12.686	VV	3170	36605	6.40%	0.167%
220	12.729	12.686	12.752	VV	6341	164057	28.68%	0.747%
221	12.767	12.752	12.782	VV	3922	67052	11.72%	0.305%
222	12.798	12.782	12.824	VV	4242	87856	15.36%	0.400%
223	12.849	12.824	12.925	VV	4666	183612	32.10%	0.836%
224	12.944	12.925	12.963	VV	2597	55559	9.71%	0.253%
225	12.972	12.963	13.006	VV	2617	57031	9.97%	0.260%
226	13.042	13.006	13.054	VV	2150	57801	10.10%	0.263%
227	13.058	13.054	13.062	VV	2060	10153	1.77%	0.046%
228	13.069	13.062	13.115	VV	2119	62847	10.99%	0.286%
229	13.143	13.115	13.199	VV	3732	117964	20.62%	0.537%
230	13.217	13.199	13.232	VV	2086	37717	6.59%	0.172%
231	13.241	13.232	13.257	VV	1974	29524	5.16%	0.134%
232	13.293	13.257	13.331	VV	2938	100854	17.63%	0.459%
233	13.334	13.331	13.367	VV	2158	37908	6.63%	0.173%
234	13.371	13.367	13.394	VV	1577	23415	4.09%	0.107%
235	13.428	13.394	13.456	VV	2279	71028	12.42%	0.323%
236	13.478	13.456	13.523	VV	2440	73151	12.79%	0.333%
237	13.537	13.523	13.555	VV	1788	30745	5.37%	0.140%
238	13.570	13.555	13.602	VV	1857	43217	7.55%	0.197%
239	13.627	13.602	13.633	VV	1707	28620	5.00%	0.130%
240	13.639	13.633	13.662	VV	1703	26165	4.57%	0.119%
241	13.689	13.662	13.711	VV	1713	45422	7.94%	0.207%
242	13.727	13.711	13.731	VV	1457	16857	2.95%	0.077%
243	13.735	13.731	13.806	VV	1462	54093	9.46%	0.246%
244	13.818	13.806	13.827	VV	1193	13497	2.36%	0.061%
245	13.849	13.827	13.877	VV	1431	38214	6.68%	0.174%
246	13.901	13.877	13.958	VV	1418	58294	10.19%	0.265%

247	14.007	13.958	14.032	VV	1187	44329	7.75%	0.202%
248	14.052	14.032	14.104	VV	1002	36978	6.46%	0.168%
249	14.108	14.104	14.114	VV	828	4652	0.81%	0.021%
250	14.118	14.114	14.124	VV	744	4372	0.76%	0.020%
251	14.130	14.124	14.137	VV	777	5716	1.00%	0.026%
252	14.141	14.137	14.165	VV	755	9922	1.73%	0.045%
253	14.189	14.165	14.194	VV	699	10278	1.80%	0.047%
254	14.224	14.194	14.275	VV	879	32676	5.71%	0.149%
255	14.290	14.275	14.310	VV	635	11274	1.97%	0.051%
256	14.315	14.310	14.329	VV	506	4945	0.86%	0.023%
257	14.349	14.329	14.361	VV	640	10340	1.81%	0.047%
258	14.364	14.361	14.372	VV	611	4031	0.70%	0.018%
259	14.378	14.372	14.420	VV	600	15338	2.68%	0.070%
260	14.425	14.420	14.432	VV	512	3626	0.63%	0.017%
261	14.436	14.432	14.442	VV	547	3018	0.53%	0.014%
262	14.447	14.442	14.475	VV	560	10065	1.76%	0.046%
263	14.484	14.475	14.534	VV	585	13650	2.39%	0.062%
264	14.555	14.534	14.582	VV	652	13653	2.39%	0.062%
265	14.592	14.582	14.625	VV	457	9717	1.70%	0.044%
266	14.630	14.625	14.639	VV	433	2983	0.52%	0.014%
267	14.645	14.639	14.654	VV	384	3242	0.57%	0.015%
268	14.683	14.654	14.702	VV	581	13226	2.31%	0.060%
269	14.721	14.702	14.773	VV	514	15048	2.63%	0.069%
270	14.785	14.773	14.792	VV	271	2797	0.49%	0.013%
271	14.797	14.792	14.804	VV	347	2067	0.36%	0.009%
272	14.806	14.804	14.819	VV	321	2040	0.36%	0.009%
273	14.831	14.819	14.859	VV	340	5910	1.03%	0.027%
274	14.892	14.859	14.924	VV	2398	37412	6.54%	0.170%
275	14.933	14.924	14.939	VV	308	2252	0.39%	0.010%
276	14.943	14.939	14.960	VV	281	2502	0.44%	0.011%
277	14.972	14.960	14.984	VV	195	1935	0.34%	0.009%
278	15.002	14.984	15.006	VV	187	1635	0.29%	0.007%
279	15.071	15.006	15.077	VV	353	8531	1.49%	0.039%
280	15.101	15.077	15.145	VV	599	14185	2.48%	0.065%
281	15.153	15.145	15.156	VV	279	1426	0.25%	0.006%
282	15.162	15.156	15.175	VV	256	2416	0.42%	0.011%
283	15.182	15.175	15.217	VV	253	4536	0.79%	0.021%
284	15.229	15.217	15.234	VV	219	1561	0.27%	0.007%
285	15.242	15.234	15.269	VV	137	2179	0.38%	0.010%
286	15.284	15.269	15.290	VV	145	1208	0.21%	0.005%
287	15.298	15.290	15.316	VV	108	920	0.16%	0.004%
288	15.322	15.316	15.327	VV	66	400	0.07%	0.002%
289	15.338	15.327	15.374	PV	147	2035	0.36%	0.009%
290	15.421	15.374	15.425	VV	123	1385	0.24%	0.006%
291	15.430	15.425	15.437	PV	111	456	0.08%	0.002%
292	15.475	15.437	15.499	VV	588	10065	1.76%	0.046%
293	15.511	15.499	15.517	VV	318	2774	0.48%	0.013%
294	15.521	15.517	15.560	VV	371	4665	0.82%	0.021%
295	15.563	15.560	15.597	VV	161	1210	0.21%	0.006%
296	15.601	15.597	15.603	PV	155	346	0.06%	0.002%
297	15.618	15.603	15.624	VV	283	2898	0.51%	0.013%
298	15.629	15.624	15.660	VV	359	4485	0.78%	0.020%
299	15.673	15.660	15.699	VV	279	4135	0.72%	0.019%

300	15.715	15.699	15.721	VV	163	1338	0.23%	0.006%
301	15.740	15.721	15.752	VV	185	2196	0.38%	0.010%
302	15.757	15.752	15.764	PV	94	322	0.06%	0.001%
303	15.770	15.764	15.776	VV	89	417	0.07%	0.002%
304	15.779	15.776	15.784	VV	100	245	0.04%	0.001%
305	15.791	15.784	15.805	PV	113	740	0.13%	0.003%
306	15.822	15.805	15.832	VV	106	1177	0.21%	0.005%
307	15.867	15.832	15.879	VV	147	3057	0.53%	0.014%
308	15.884	15.879	15.892	VV	120	812	0.14%	0.004%
309	15.921	15.892	15.937	VV	273	5047	0.88%	0.023%
310	15.940	15.937	15.960	VV	193	2086	0.36%	0.009%
311	15.965	15.960	15.971	VV	162	642	0.11%	0.003%
312	15.980	15.971	15.989	VV	157	1050	0.18%	0.005%
313	15.994	15.989	16.005	VV	156	1050	0.18%	0.005%
314	16.012	16.005	16.036	VV	170	1585	0.28%	0.007%
315	16.057	16.036	16.062	VV	192	1734	0.30%	0.008%
316	16.071	16.062	16.076	VV	164	1053	0.18%	0.005%
317	16.079	16.076	16.083	VV	100	368	0.06%	0.002%
318	16.117	16.083	16.137	VV	359	6170	1.08%	0.028%
319	16.144	16.137	16.150	VV	150	969	0.17%	0.004%
320	16.157	16.150	16.169	VV	175	1370	0.24%	0.006%
321	16.174	16.169	16.177	VV	140	455	0.08%	0.002%
322	16.183	16.177	16.207	VV	127	1565	0.27%	0.007%
323	16.213	16.207	16.217	VV	135	496	0.09%	0.002%
324	16.221	16.217	16.233	VV	132	475	0.08%	0.002%
325	16.240	16.233	16.244	PV	84	397	0.07%	0.002%
326	16.252	16.244	16.276	VV	151	1638	0.29%	0.007%
327	16.287	16.276	16.293	VV	155	1229	0.21%	0.006%
328	16.302	16.293	16.336	VV	212	2851	0.50%	0.013%
329	16.358	16.336	16.370	VV	122	989	0.17%	0.005%
330	16.381	16.370	16.393	VV	98	862	0.15%	0.004%
331	16.429	16.393	16.457	VV	209	4717	0.82%	0.021%
332	16.475	16.457	16.480	VV	135	1413	0.25%	0.006%
333	16.491	16.480	16.499	VV	203	1557	0.27%	0.007%
334	16.502	16.499	16.509	VV	153	633	0.11%	0.003%
335	16.514	16.509	16.530	VV	104	657	0.11%	0.003%
336	16.550	16.530	16.567	VV	152	1821	0.32%	0.008%
337	16.571	16.567	16.574	VV	132	267	0.05%	0.001%
338	16.597	16.574	16.635	VV	518	10548	1.84%	0.048%
339	16.643	16.635	16.657	VV	282	3075	0.54%	0.014%
340	16.679	16.657	16.711	VV	926	15308	2.68%	0.070%
341	16.728	16.711	16.735	VV	214	2146	0.38%	0.010%
342	16.743	16.735	16.750	VV	166	1221	0.21%	0.006%
343	16.753	16.750	16.764	VV	160	933	0.16%	0.004%
344	16.785	16.764	16.809	VV	189	3563	0.62%	0.016%
345	16.820	16.809	16.832	VV	158	1316	0.23%	0.006%
346	16.867	16.832	16.887	VV	153	2900	0.51%	0.013%
347	16.917	16.887	16.950	PV	279	5727	1.00%	0.026%
348	16.965	16.950	16.976	VV	160	1951	0.34%	0.009%
349	16.984	16.976	16.995	VV	165	1413	0.25%	0.006%
350	17.031	16.995	17.038	VV	239	4004	0.70%	0.018%
351	17.067	17.038	17.095	VV	607	12442	2.17%	0.057%

					rteres			
352	17.114	17.095	17.134	VV	395	6285	1.10%	0.029%
353	17.149	17.134	17.165	VV	218	2739	0.48%	0.012%
354	17.189	17.165	17.194	VV	139	1515	0.26%	0.007%
355	17.197	17.194	17.200	VBA	119	1644	0.29%	0.007%

Sum of corrected areas: 21967581

FF091124.M Fri Sep 20 03:34:43 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-14-5-7.5B	SDG No.:	P4103
Lab Sample ID:	P4103-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.1 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014545.D	25	09/19/24 11:09	09/19/24 22:53	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	242000		5120	46100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.52		37 - 130	65%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014545.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 22:53
Operator : YP\AJ
Sample : P4103-07 25X
Misc :
ALS Vial : 83 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Sep 20 02:29:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	14.895	55864	0.521 ug/mlm
	Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014545.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 22:53
Operator : YP\AJ
Sample : P4103-07 25X
Misc :
ALS Vial : 83 Sample Multiplier: 1

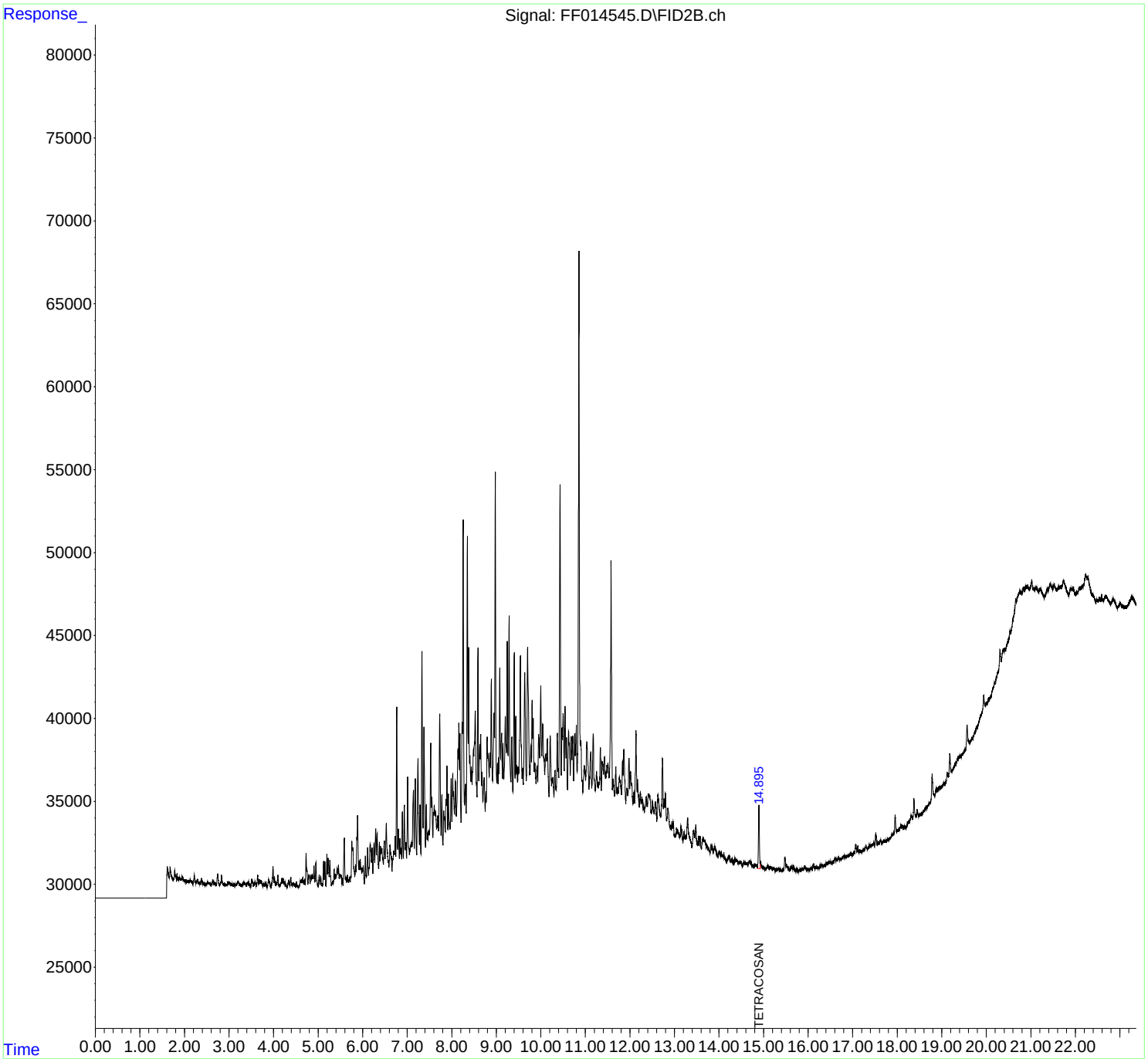
Integration File: autoint1.e
Quant Time: Sep 20 02:29:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

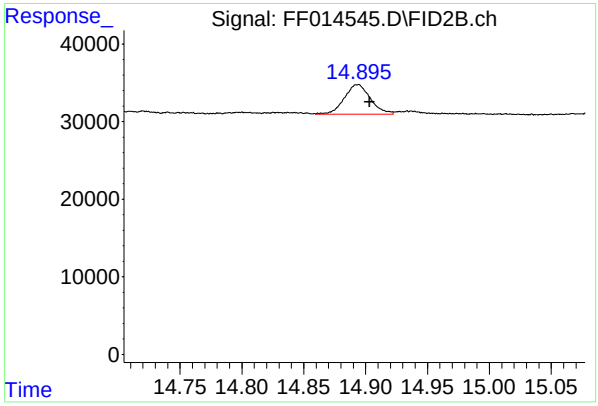
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.895 min
Delta R.T.: -0.008 mi
Response: 55864
Conc: 0.52 ug/m

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF09192
Data File : FF014545.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 22:53
Sample : P4103-07 25X
Misc :
ALS Vial : 83 Sample Multiplier: 1

Integration File: Sample.e

09/20/2024
Supervised By :Ankita Sodhani

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

09/20/2024

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.672	4.669	4.686	HH	328	1966	0.26%	0.006%
2	4.700	4.686	4.713	HH	382	3421	0.46%	0.011%
3	4.732	4.713	4.743	HH	1949	19560	2.64%	0.063%
4	4.750	4.743	4.770	HH	1045	10123	1.36%	0.033%
5	4.794	4.770	4.798	HH	601	6814	0.92%	0.022%
6	4.802	4.798	4.822	HH	636	6251	0.84%	0.020%
7	4.839	4.822	4.854	HH	623	8321	1.12%	0.027%
8	4.866	4.854	4.877	HH	681	7044	0.95%	0.023%
9	4.880	4.877	4.892	HH	530	4362	0.59%	0.014%
10	4.909	4.892	4.934	HH	1164	16457	2.22%	0.053%
11	4.951	4.934	4.996	HH	1411	19161	2.58%	0.062%
12	5.025	4.996	5.045	PH	628	8308	1.12%	0.027%
13	5.060	5.045	5.085	HH	576	6402	0.86%	0.021%
14	5.091	5.085	5.101	HH	116	381	0.05%	0.001%
15	5.123	5.101	5.137	PH	1482	15102	2.04%	0.049%
16	5.154	5.137	5.180	HH	1447	16827	2.27%	0.055%
17	5.199	5.180	5.212	PH	1882	19598	2.64%	0.064%
18	5.228	5.212	5.250	HH	1652	25163	3.39%	0.082%
19	5.264	5.250	5.303	HH	1493	21876	2.95%	0.071%
20	5.326	5.303	5.337	PH	299	3213	0.43%	0.010%
21	5.360	5.337	5.375	HH	982	11930	1.61%	0.039%
22	5.386	5.375	5.396	HH	710	7206	0.97%	0.023%
23	5.428	5.396	5.443	HH	1000	20799	2.80%	0.067%
24	5.458	5.443	5.473	HH	1233	15682	2.11%	0.051%
25	5.486	5.473	5.510	HH	678	12649	1.70%	0.041%
26	5.520	5.510	5.534	HH	594	6467	0.87%	0.021%
27	5.546	5.534	5.560	HH	463	3895	0.52%	0.013%
28	5.588	5.560	5.613	PH	2883	42107	5.67%	0.136%
29	5.624	5.613	5.642	HH	491	6692	0.90%	0.022%
30	5.660	5.642	5.688	HH	581	10181	1.37%	0.033%
31	5.710	5.688	5.723	HH	503	7658	1.03%	0.025%
32	5.759	5.723	5.773	HH	2696	41474	5.59%	0.134%
33	5.780	5.773	5.801	HH	2224	30886	4.16%	0.100%
34	5.807	5.801	5.825	HH	1127	12500	1.68%	0.041%
35	5.845	5.825	5.856	HH	1247	16933	2.28%	0.055%
36	5.887	5.856	5.913	HH	4178	85930	11.58%	0.279%

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel

09/20/2024
Supervised By :Ankita Jadhani

09/20/2024

rteres

37	5.926	5.913	5.937	HH	1484	17278	2.33%	0.056%
38	5.948	5.937	5.981	HH	1597	30506	4	
39	5.990	5.981	6.001	HH	1028	10787	1	
40	6.014	6.001	6.041	HH	1171	17139	2	
41	6.062	6.041	6.078	HH	1782	22094	2	
42	6.087	6.078	6.092	HH	642	4685	0	
43	6.113	6.092	6.132	HH	2292	34684	4.67%	0.112%
44	6.167	6.132	6.202	HH	2521	70514	9.50%	0.229%
45	6.213	6.202	6.231	HH	2278	27501	3.71%	0.089%
46	6.257	6.231	6.273	HH	2579	45502	6.13%	0.148%
47	6.294	6.273	6.310	HH	3408	56845	7.66%	0.184%
48	6.325	6.310	6.362	HH	3105	63811	8.60%	0.207%
49	6.378	6.362	6.391	HH	2613	32482	4.38%	0.105%
50	6.403	6.391	6.415	HH	2373	29266	3.94%	0.095%
51	6.435	6.415	6.469	HH	2245	58417	7.87%	0.189%
52	6.487	6.469	6.506	HH	2631	45248	6.10%	0.147%
53	6.532	6.506	6.572	HH	3780	93862	12.65%	0.304%
54	6.577	6.572	6.592	HH	1511	16066	2.17%	0.052%
55	6.615	6.592	6.662	HH	2456	72449	9.76%	0.235%
56	6.702	6.662	6.715	HH	2105	53702	7.24%	0.174%
57	6.732	6.715	6.747	HH	2935	45114	6.08%	0.146%
58	6.766	6.747	6.788	HH	10762	140352	18.92%	0.455%
59	6.802	6.788	6.827	HH	3386	62478	8.42%	0.203%
60	6.839	6.827	6.853	HH	2837	36564	4.93%	0.119%
61	6.862	6.853	6.876	HH	2269	27243	3.67%	0.088%
62	6.892	6.876	6.914	HH	4457	66732	8.99%	0.216%
63	6.936	6.914	6.964	HH	4800	89650	12.08%	0.291%
64	6.973	6.964	6.987	HH	2578	30974	4.17%	0.100%
65	7.011	6.987	7.052	HH	6556	128026	17.25%	0.415%
66	7.091	7.052	7.100	HH	2582	66794	9.00%	0.217%
67	7.104	7.100	7.113	HH	2586	18600	2.51%	0.060%
68	7.141	7.113	7.161	HH	5747	118733	16.00%	0.385%
69	7.183	7.161	7.214	HH	6455	127920	17.24%	0.415%
70	7.243	7.214	7.276	HH	7657	170695	23.00%	0.553%
71	7.290	7.276	7.308	HH	4880	65224	8.79%	0.211%
72	7.333	7.308	7.360	HH	14122	217375	29.30%	0.705%
73	7.377	7.360	7.411	HH	9556	177107	23.87%	0.574%
74	7.430	7.411	7.448	HH	4897	79166	10.67%	0.257%
75	7.457	7.448	7.468	HH	3158	36751	4.95%	0.119%
76	7.480	7.468	7.492	HH	3275	43948	5.92%	0.142%
77	7.529	7.492	7.548	HH	8600	171127	23.06%	0.555%
78	7.556	7.548	7.576	HH	5326	73882	9.96%	0.240%
79	7.591	7.576	7.596	HH	4421	46273	6.24%	0.150%
80	7.609	7.596	7.622	HH	4853	72194	9.73%	0.234%
81	7.627	7.622	7.634	HH	4342	29681	4.00%	0.096%
82	7.642	7.634	7.661	HH	4406	64534	8.70%	0.209%
83	7.687	7.661	7.708	HH	4194	104986	14.15%	0.340%
84	7.732	7.708	7.761	HH	10350	207941	28.02%	0.674%
85	7.780	7.761	7.801	HH	5474	94910	12.79%	0.308%
86	7.822	7.801	7.835	HH	4479	73430	9.90%	0.238%
87	7.840	7.835	7.854	HH	4150	43805	5.90%	0.142%
88	7.872	7.854	7.879	HH	5202	66069	8.90%	0.214%
89	7.896	7.879	7.912	HH	7203	111444	15.02%	0.361%

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

rteres

90	7.926	7.912	7.960	HH	5475	119884	16.16%	0.389%
91	7.988	7.960	8.005	HH	6458	125740	16	
92	8.023	8.005	8.036	HH	6719	104951	14	
93	8.043	8.036	8.062	HH	5668	78691	10	
94	8.086	8.062	8.103	HH	6249	128888	17	
95	8.141	8.103	8.150	HH	8252	176646	23	
96	8.162	8.150	8.175	HH	9722	126620	17.06%	0.410%
97	8.186	8.175	8.211	HH	9191	140532	18.94%	0.456%
98	8.234	8.211	8.240	HH	9819	120247	16.21%	0.390%
99	8.258	8.240	8.287	HH	21910	345221	46.53%	1.119%
100	8.307	8.287	8.325	HH	6078	123230	16.61%	0.399%
101	8.352	8.325	8.368	HH	20966	311372	41.96%	1.009%
102	8.381	8.368	8.402	HH	14384	213930	28.83%	0.694%
103	8.411	8.402	8.428	HH	7801	112799	15.20%	0.366%
104	8.442	8.428	8.457	HH	7126	114252	15.40%	0.370%
105	8.488	8.457	8.496	HH	8201	171403	23.10%	0.556%
106	8.529	8.496	8.569	HH	10492	349214	47.06%	1.132%
107	8.590	8.569	8.608	HH	14309	218630	29.47%	0.709%
108	8.629	8.608	8.638	HH	8480	140393	18.92%	0.455%
109	8.652	8.638	8.669	HH	9115	145616	19.63%	0.472%
110	8.680	8.669	8.701	HH	6838	115930	15.62%	0.376%
111	8.729	8.701	8.753	HH	6487	177969	23.99%	0.577%
112	8.768	8.753	8.777	HH	5620	74828	10.08%	0.243%
113	8.796	8.777	8.806	HH	8944	128943	17.38%	0.418%
114	8.812	8.806	8.841	HH	7899	158004	21.29%	0.512%
115	8.860	8.841	8.872	HH	7978	136106	18.34%	0.441%
116	8.890	8.872	8.917	HH	12437	242405	32.67%	0.786%
117	8.952	8.917	8.961	HH	10390	224858	30.30%	0.729%
118	8.980	8.961	9.012	HH	24916	400338	53.95%	1.298%
119	9.028	9.012	9.041	HH	7392	116292	15.67%	0.377%
120	9.054	9.041	9.062	HH	7697	91271	12.30%	0.296%
121	9.080	9.062	9.099	HH	13176	217321	29.29%	0.704%
122	9.121	9.099	9.139	HH	9180	196005	26.42%	0.635%
123	9.152	9.139	9.170	HH	8565	138323	18.64%	0.448%
124	9.204	9.170	9.231	HH	10151	305705	41.20%	0.991%
125	9.248	9.231	9.266	HH	14670	224792	30.30%	0.729%
126	9.289	9.266	9.329	HH	16233	365652	49.28%	1.185%
127	9.349	9.329	9.372	HH	8938	188385	25.39%	0.611%
128	9.404	9.372	9.422	HH	14041	274994	37.06%	0.891%
129	9.438	9.422	9.453	HH	10231	154376	20.81%	0.500%
130	9.462	9.453	9.477	HH	7239	99118	13.36%	0.321%
131	9.491	9.477	9.507	HH	7150	123562	16.65%	0.401%
132	9.542	9.507	9.581	HH	13845	409852	55.24%	1.329%
133	9.591	9.581	9.605	HH	7079	98137	13.23%	0.318%
134	9.640	9.605	9.675	HH	12802	374769	50.51%	1.215%
135	9.704	9.675	9.752	HH	14364	453473	61.12%	1.470%
136	9.778	9.752	9.789	HH	8403	166187	22.40%	0.539%
137	9.806	9.789	9.819	HH	11176	174689	23.54%	0.566%
138	9.829	9.819	9.855	HH	10080	182966	24.66%	0.593%
139	9.868	9.855	9.894	HH	7347	157289	21.20%	0.510%
140	9.916	9.894	9.931	HH	7189	149666	20.17%	0.485%
141	9.952	9.931	9.974	HH	9107	207180	27.92%	0.672%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel

09/20/2024

Supervised By :Ankita Jadhani

09/20/2024

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel

09/20/2024
Supervised By :Ankita Jadhani

09/20/2024

142	10.001	9.974	10.023	HH	12006	279666	37.69%	0.907%
143	10.045	10.023	10.070	HH	9698	243060	32	
144	10.074	10.070	10.089	HH	7619	86699	11	
145	10.120	10.089	10.129	HH	7915	178230	24	
146	10.147	10.129	10.185	HH	8771	245403	33	
147	10.211	10.185	10.244	HH	9032	255522	34	
148	10.254	10.244	10.264	HH	6476	76992	10.38%	0.250%
149	10.275	10.264	10.297	HH	6400	118314	15.95%	0.384%
150	10.318	10.297	10.346	HH	6915	183615	24.75%	0.595%
151	10.370	10.346	10.403	HH	9178	245130	33.04%	0.795%
152	10.433	10.403	10.459	HH	24179	461664	62.22%	1.497%
153	10.478	10.459	10.487	HH	9455	139251	18.77%	0.451%
154	10.504	10.487	10.527	HH	10345	220004	29.65%	0.713%
155	10.546	10.527	10.566	HH	10775	213268	28.74%	0.691%
156	10.579	10.566	10.599	HH	8906	149861	20.20%	0.486%
157	10.623	10.599	10.660	HH	9233	286903	38.67%	0.930%
158	10.682	10.660	10.700	HH	8950	187425	25.26%	0.608%
159	10.717	10.700	10.737	HH	8961	176134	23.74%	0.571%
160	10.760	10.737	10.773	HH	9149	170771	23.02%	0.554%
161	10.795	10.773	10.814	HH	9666	207711	27.99%	0.673%
162	10.856	10.814	10.887	HH	38206	741992	100.00%	2.405%
163	10.899	10.887	10.943	HH	8733	243481	32.81%	0.789%
164	10.976	10.943	11.006	HH	7222	250526	33.76%	0.812%
165	11.033	11.006	11.081	HH	8620	330115	44.49%	1.070%
166	11.120	11.081	11.145	HH	8046	265740	35.81%	0.861%
167	11.176	11.145	11.226	HH	9150	334072	45.02%	1.083%
168	11.252	11.226	11.280	HH	6846	204852	27.61%	0.664%
169	11.289	11.280	11.296	HH	6210	58896	7.94%	0.191%
170	11.309	11.296	11.314	HH	6242	65662	8.85%	0.213%
171	11.338	11.314	11.359	HH	8300	190498	25.67%	0.618%
172	11.383	11.359	11.408	HH	7464	205855	27.74%	0.667%
173	11.427	11.408	11.451	HH	7695	184304	24.84%	0.597%
174	11.481	11.451	11.491	HH	7252	161311	21.74%	0.523%
175	11.505	11.491	11.533	HH	7336	176311	23.76%	0.572%
176	11.577	11.533	11.610	HH	19538	487292	65.67%	1.580%
177	11.625	11.610	11.658	HH	6409	172323	23.22%	0.559%
178	11.683	11.658	11.706	HH	7107	179400	24.18%	0.582%
179	11.723	11.706	11.737	HH	5859	105963	14.28%	0.344%
180	11.764	11.737	11.772	HH	6535	126247	17.01%	0.409%
181	11.777	11.772	11.781	HH	6357	34379	4.63%	0.111%
182	11.784	11.781	11.810	HH	6336	105520	14.22%	0.342%
183	11.834	11.810	11.848	HH	7485	149213	20.11%	0.484%
184	11.864	11.848	11.905	HH	8196	231262	31.17%	0.750%
185	11.931	11.905	11.955	HH	5870	165028	22.24%	0.535%
186	11.979	11.955	11.996	HH	7664	163384	22.02%	0.530%
187	12.013	11.996	12.066	HH	6846	253125	34.11%	0.821%
188	12.088	12.066	12.104	HH	5617	119613	16.12%	0.388%
189	12.134	12.104	12.159	HH	9332	229576	30.94%	0.744%
190	12.171	12.159	12.215	HH	6369	185682	25.02%	0.602%
191	12.233	12.215	12.251	HH	5643	113537	15.30%	0.368%
192	12.268	12.251	12.277	HH	5346	81671	11.01%	0.265%
193	12.286	12.277	12.298	HH	5198	62022	8.36%	0.201%
194	12.305	12.298	12.323	HH	4664	69532	9.37%	0.225%

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

rteres

195	12.334	12.323	12.340	HH	4711	46837	6.31%	0.152%
196	12.367	12.340	12.388	HH	5338	145052	19	
197	12.392	12.388	12.395	HH	4857	21687	2	
198	12.409	12.395	12.444	HH	5518	156105	21	
199	12.450	12.444	12.480	HH	5412	105688	14	
200	12.507	12.480	12.533	HH	5074	146411	19	
201	12.536	12.533	12.549	HH	4527	42410	5.72%	0.137%
202	12.578	12.549	12.602	HH	5050	147977	19.94%	0.480%
203	12.626	12.602	12.688	HH	5460	243146	32.77%	0.788%
204	12.730	12.688	12.753	HH	7660	213265	28.74%	0.691%
205	12.766	12.753	12.782	HH	5201	84987	11.45%	0.276%
206	12.797	12.782	12.828	HH	5501	130595	17.60%	0.423%
207	12.849	12.828	12.914	HH	4656	208159	28.05%	0.675%
208	12.918	12.914	12.927	HH	3501	26976	3.64%	0.087%
209	12.945	12.927	12.955	HH	3879	62087	8.37%	0.201%
210	12.973	12.955	12.991	HH	3848	75176	10.13%	0.244%
211	12.995	12.991	13.015	HH	3087	43186	5.82%	0.140%
212	13.020	13.015	13.024	HH	3034	16615	2.24%	0.054%
213	13.044	13.024	13.062	HH	3457	73276	9.88%	0.238%
214	13.072	13.062	13.115	HH	3355	101516	13.68%	0.329%
215	13.124	13.115	13.128	HH	2998	22946	3.09%	0.074%
216	13.146	13.128	13.177	HH	3589	95080	12.81%	0.308%
217	13.182	13.177	13.193	HH	2846	26315	3.55%	0.085%
218	13.214	13.193	13.232	HH	3225	69719	9.40%	0.226%
219	13.244	13.232	13.268	HH	3035	62656	8.44%	0.203%
220	13.291	13.268	13.392	HH	4098	229841	30.98%	0.745%
221	13.431	13.392	13.460	HH	3357	121253	16.34%	0.393%
222	13.478	13.460	13.509	HH	3575	88003	11.86%	0.285%
223	13.514	13.509	13.525	HH	2556	24682	3.33%	0.080%
224	13.542	13.525	13.558	HH	2982	53019	7.15%	0.172%
225	13.572	13.558	13.602	HH	2971	69631	9.38%	0.226%
226	13.639	13.602	13.667	HH	2924	102560	13.82%	0.332%
227	13.671	13.667	13.678	HH	2699	18024	2.43%	0.058%
228	13.686	13.678	13.714	HH	2744	53737	7.24%	0.174%
229	13.723	13.714	13.749	HH	2432	49034	6.61%	0.159%
230	13.754	13.749	13.798	HH	2223	62632	8.44%	0.203%
231	13.819	13.798	13.838	HH	2379	53922	7.27%	0.175%
232	13.851	13.838	13.872	HH	2370	44472	5.99%	0.144%
233	13.904	13.872	13.909	HH	2351	48500	6.54%	0.157%
234	13.913	13.909	13.970	HH	2356	73770	9.94%	0.239%
235	14.001	13.970	14.037	HH	2062	76898	10.36%	0.249%
236	14.050	14.037	14.069	HH	2053	36358	4.90%	0.118%
237	14.076	14.069	14.084	HH	1855	16075	2.17%	0.052%
238	14.091	14.084	14.104	HH	1811	21420	2.89%	0.069%
239	14.107	14.104	14.114	HH	1887	11082	1.49%	0.036%
240	14.122	14.114	14.128	HH	1666	14019	1.89%	0.045%
241	14.137	14.128	14.169	HH	1701	37755	5.09%	0.122%
242	14.211	14.169	14.215	HH	1786	44415	5.99%	0.144%
243	14.229	14.215	14.262	HH	1856	46370	6.25%	0.150%
244	14.266	14.262	14.269	HH	1507	6589	0.89%	0.021%
245	14.291	14.269	14.319	HH	1611	44687	6.02%	0.145%
246	14.324	14.319	14.330	HH	1423	8911	1.20%	0.029%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel
09/20/2024

Supervised By :Ankita Jadhani
09/20/2024

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

rteres

247	14.355	14.330	14.369	HH	1660	35337	4.76%	0.115%
248	14.394	14.369	14.424	HH	1595	48276	6	
249	14.440	14.424	14.450	HH	1415	22299	3	
250	14.455	14.450	14.470	HH	1426	16499	2	
251	14.490	14.470	14.537	HH	1443	52735	7	
252	14.560	14.537	14.582	HH	1469	36585	4	
253	14.591	14.582	14.602	HH	1380	16000	2.16%	0.052%
254	14.625	14.602	14.647	HH	1405	35724	4.81%	0.116%
255	14.651	14.647	14.663	HH	1355	12597	1.70%	0.041%
256	14.680	14.663	14.699	HH	1481	30221	4.07%	0.098%
257	14.710	14.699	14.715	HH	1392	13308	1.79%	0.043%
258	14.720	14.715	14.735	HH	1432	15906	2.14%	0.052%
259	14.740	14.735	14.774	HH	1308	27539	3.71%	0.089%
260	14.800	14.774	14.824	HH	1296	35757	4.82%	0.116%
261	14.827	14.824	14.839	HH	1220	11519	1.55%	0.037%
262	14.842	14.839	14.857	HH	1239	12504	1.69%	0.041%
263	14.894	14.857	14.929	HH	4829	102085	13.76%	0.331%
264	14.937	14.929	15.005	HH	1457	52712	7.10%	0.171%
265	15.014	15.005	15.040	HH	1088	21252	2.86%	0.069%
266	15.068	15.040	15.072	HH	1126	19429	2.62%	0.063%
267	15.078	15.072	15.081	HH	1118	6020	0.81%	0.020%
268	15.099	15.081	15.124	HH	1251	29128	3.93%	0.094%
269	15.129	15.124	15.142	HH	1080	11653	1.57%	0.038%
270	15.149	15.142	15.165	HH	1142	15268	2.06%	0.049%
271	15.169	15.165	15.178	HH	1149	8149	1.10%	0.026%
272	15.180	15.178	15.191	HH	1097	7976	1.07%	0.026%
273	15.199	15.191	15.204	HH	1002	7613	1.03%	0.025%
274	15.210	15.204	15.215	HH	1029	7166	0.97%	0.023%
275	15.219	15.215	15.232	HH	1055	10173	1.37%	0.033%
276	15.239	15.232	15.259	HH	1072	16167	2.18%	0.052%
277	15.282	15.259	15.290	HH	1014	17885	2.41%	0.058%
278	15.296	15.290	15.300	HH	999	5787	0.78%	0.019%
279	15.302	15.300	15.309	HH	1030	4755	0.64%	0.015%
280	15.339	15.309	15.382	HH	1071	42059	5.67%	0.136%
281	15.386	15.382	15.410	HH	979	15049	2.03%	0.049%
282	15.435	15.410	15.447	HH	1001	20654	2.78%	0.067%
283	15.477	15.447	15.504	HH	1673	45086	6.08%	0.146%
284	15.519	15.504	15.584	HH	1255	51552	6.95%	0.167%
285	15.616	15.584	15.624	HH	1149	24768	3.34%	0.080%
286	15.630	15.624	15.656	HH	1132	20603	2.78%	0.067%
287	15.676	15.656	15.694	HH	1189	24117	3.25%	0.078%
288	15.699	15.694	15.717	HH	1028	12891	1.74%	0.042%
289	15.724	15.717	15.728	HH	935	6262	0.84%	0.020%
290	15.738	15.728	15.760	HH	1044	17970	2.42%	0.058%
291	15.765	15.760	15.784	HH	956	12295	1.66%	0.040%
292	15.787	15.784	15.791	HH	880	3754	0.51%	0.012%
293	15.801	15.791	15.817	HH	966	14277	1.92%	0.046%
294	15.826	15.817	15.841	HH	1017	13793	1.86%	0.045%
295	15.862	15.841	15.875	HH	1041	20054	2.70%	0.065%
296	15.880	15.875	15.884	HH	1009	5039	0.68%	0.016%
297	15.887	15.884	15.894	HH	992	5765	0.78%	0.019%
298	15.922	15.894	15.944	HH	1145	31903	4.30%	0.103%
299	15.948	15.944	15.962	HH	1076	10739	1.45%	0.035%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel

09/20/2024

Supervised By :Ankita Jadhani

09/20/2024

Instrument :
FID_F
ClientSampleId :
WC-14-5-7.5B

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel

09/20/2024
Supervised By :Ankita Jadhani

09/20/2024

rteres

300	15.967	15.962	15.988	HH	1044	15548	2.10%	0.050%
301	15.993	15.988	15.997	HH	1061	5424		
302	15.999	15.997	16.007	HH	1057	5999		
303	16.012	16.007	16.029	HH	1018	12541		
304	16.032	16.029	16.041	HH	981	6900		
305	16.062	16.041	16.082	HH	1100	25216		
306	16.121	16.082	16.148	HH	1304	44392	5.98%	0.144%
307	16.165	16.148	16.173	HH	1136	15960	2.15%	0.052%
308	16.183	16.173	16.194	HH	1124	13958	1.88%	0.045%
309	16.205	16.194	16.252	HH	1094	36885	4.97%	0.120%
310	16.301	16.252	16.332	HH	1282	56525	7.62%	0.183%
311	16.336	16.332	16.344	HH	1216	8312	1.12%	0.027%
312	16.428	16.344	16.447	HH	1411	78580	10.59%	0.255%
313	16.457	16.447	16.467	HH	1397	15869	2.14%	0.051%
314	16.493	16.467	16.519	HH	1443	43056	5.80%	0.140%
315	16.564	16.519	16.577	HH	1505	48466	6.53%	0.157%
316	16.603	16.577	16.620	HH	1682	40683	5.48%	0.132%
317	16.679	16.620	16.712	HH	1732	86758	11.69%	0.281%
318	16.722	16.712	16.744	HH	1673	30596	4.12%	0.099%
319	16.823	16.744	16.847	HH	1824	106405	14.34%	0.345%
320	16.872	16.847	16.899	HH	1822	54534	7.35%	0.177%
321	16.923	16.899	16.947	HH	1881	52999	7.14%	0.172%
322	16.965	16.947	16.996	HH	1907	55572	7.49%	0.180%
323	17.068	16.996	17.092	HH	2474	120301	16.21%	0.390%
324	17.115	17.092	17.149	HH	2343	73472	9.90%	0.238%
325	17.153	17.149	17.165	HH	2134	19940	2.69%	0.065%
326	17.184	17.165	17.200	HHA	2139	45271	6.10%	0.147%

Sum of corrected areas: 30847893

FF091124.M Fri Sep 20 03:37:33 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-14-7.5-10A	SDG No.:	P4103
Lab Sample ID:	P4103-10	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.5 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
FF014546.D	100	09/19/24 11:09	09/19/24 23:22	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	801000		21600	195000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.00	*	37 - 130	0%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014546.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 23:22
Operator : YP\AJ
Sample : P4103-10 100X
Misc :
ALS Vial : 84 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10A

Integration File: autoint1.e
Quant Time: Sep 20 02:29:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

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

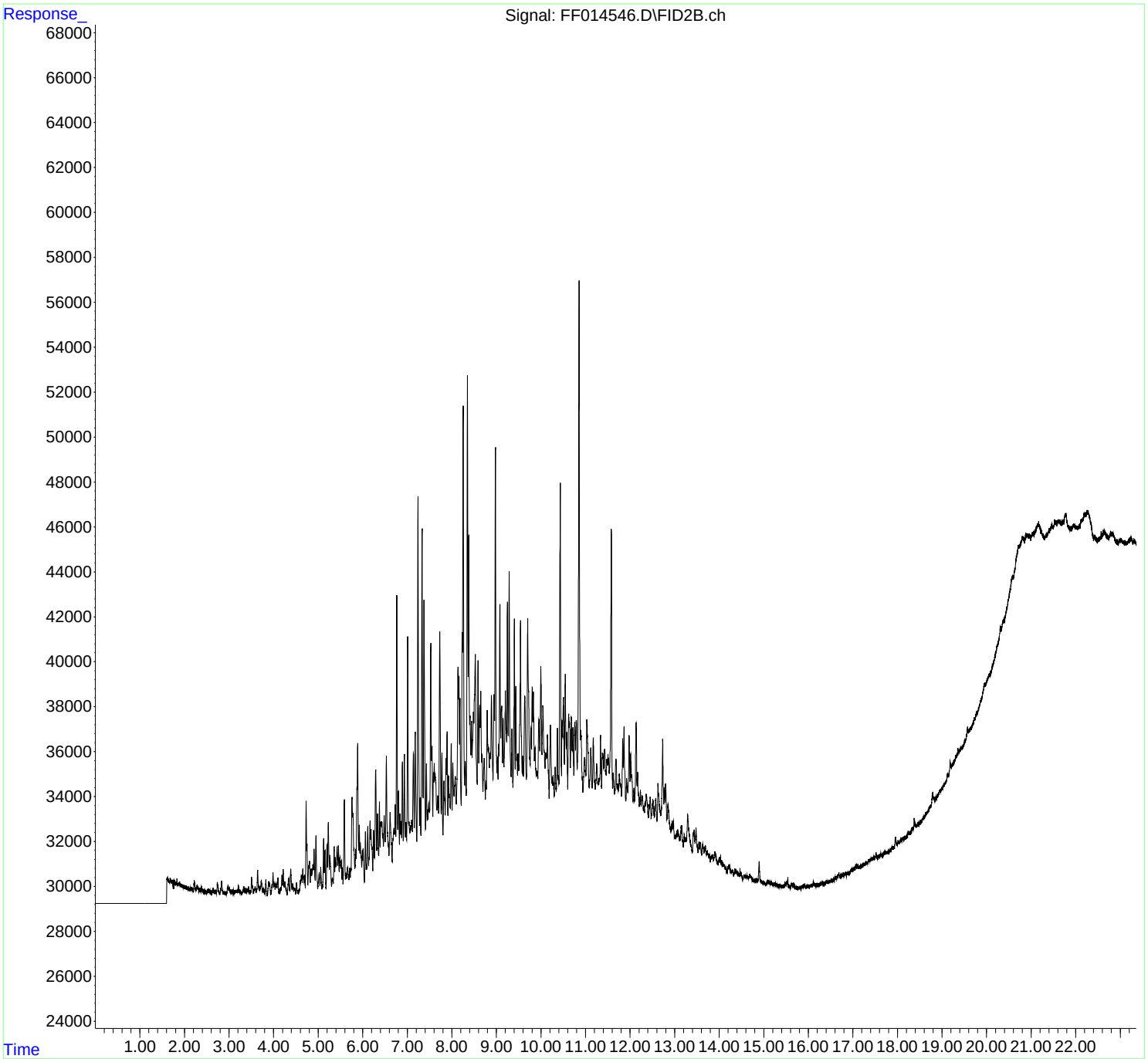
Quantitation Report (QT Reviewed)

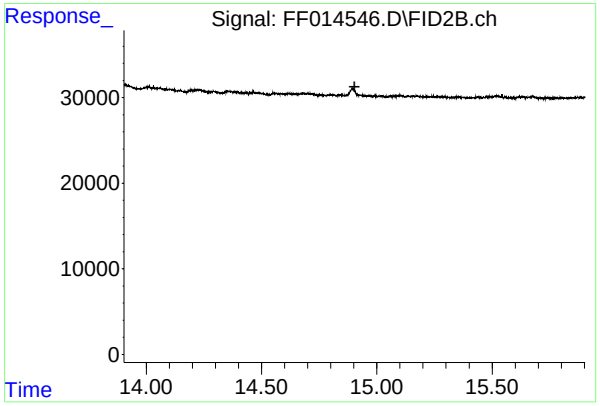
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014546.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 23:22
Operator : YP\AJ
Sample : P4103-10 100X
Misc :
ALS Vial : 84 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10A

Integration File: autoint1.e
Quant Time: Sep 20 02:29:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 0.000 min
Exp R.T. : 14.903 mi
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10A

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014546.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 23:22
Sample : P4103-10 100X
Misc :
ALS Vial : 84 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.599	4.570	4.608	BH	394	3247	0.60%	0.013%
2	4.626	4.608	4.641	HH	635	9826	1.81%	0.041%
3	4.656	4.641	4.685	HH	906	15845	2.92%	0.066%
4	4.697	4.685	4.712	HH	622	6927	1.28%	0.029%
5	4.731	4.712	4.744	HH	3946	41366	7.63%	0.171%
6	4.750	4.744	4.769	HH	1983	18817	3.47%	0.078%
7	4.808	4.769	4.823	HH	1280	26928	4.96%	0.111%
8	4.839	4.823	4.857	HH	900	14631	2.70%	0.061%
9	4.882	4.857	4.892	HH	1106	18542	3.42%	0.077%
10	4.909	4.892	4.934	HH	1816	27924	5.15%	0.115%
11	4.951	4.934	4.989	HH	2385	35503	6.55%	0.147%
12	5.025	4.989	5.042	HH	755	12891	2.38%	0.053%
13	5.096	5.085	5.101	HH	221	1353	0.25%	0.006%
14	5.124	5.101	5.137	HH	2275	24703	4.55%	0.102%
15	5.154	5.137	5.177	HH	1701	23347	4.30%	0.097%
16	5.198	5.177	5.212	HH	1965	22916	4.22%	0.095%
17	5.228	5.212	5.251	HH	3007	44800	8.26%	0.185%
18	5.265	5.251	5.300	HH	1485	28205	5.20%	0.117%
19	5.319	5.300	5.337	HH	505	8551	1.58%	0.035%
20	5.360	5.337	5.375	HH	1917	24611	4.54%	0.102%
21	5.386	5.375	5.397	HH	1442	15087	2.78%	0.062%
22	5.403	5.397	5.408	HH	1189	7541	1.39%	0.031%
23	5.426	5.408	5.443	HH	1868	30620	5.65%	0.127%
24	5.457	5.443	5.472	HH	1950	24831	4.58%	0.103%
25	5.487	5.472	5.510	HH	1437	26915	4.96%	0.111%
26	5.519	5.510	5.535	HH	1285	14332	2.64%	0.059%
27	5.588	5.559	5.612	HH	4010	59118	10.90%	0.244%
28	5.621	5.612	5.633	HH	726	7781	1.43%	0.032%
29	5.660	5.633	5.691	HH	1001	24241	4.47%	0.100%
30	5.709	5.691	5.723	HH	968	14062	2.59%	0.058%
31	5.734	5.723	5.742	HH	971	9339	1.72%	0.039%
32	5.759	5.742	5.779	HH	4132	67874	12.51%	0.281%
33	5.783	5.779	5.800	HH	3372	34268	6.32%	0.142%
34	5.805	5.800	5.823	HH	1851	21524	3.97%	0.089%
35	5.845	5.823	5.853	HH	1818	25467	4.70%	0.105%
36	5.887	5.853	5.914	HH	6518	137060	25.27%	0.567%

rteres

37	5.925	5.914	5.938	HH	2862	32747	6.04%	0.135%
38	5.947	5.938	5.978	HH	2051	39426	7.27%	0.163%
39	5.992	5.978	6.001	HH	1735	19618	3.62%	0.081%
40	6.062	6.039	6.080	HH	2576	33973	6.26%	0.141%
41	6.086	6.080	6.090	HH	1052	5924	1.09%	0.024%
42	6.113	6.090	6.132	HH	2809	46909	8.65%	0.194%
43	6.165	6.132	6.175	HH	3058	50585	9.33%	0.209%
44	6.187	6.175	6.225	HH	2679	59506	10.97%	0.246%
45	6.246	6.225	6.264	HH	2648	41828	7.71%	0.173%
46	6.292	6.264	6.315	HH	5347	99598	18.36%	0.412%
47	6.332	6.315	6.362	HH	3339	66898	12.33%	0.277%
48	6.404	6.391	6.411	HH	2946	32029	5.91%	0.132%
49	6.420	6.411	6.428	HH	3021	29162	5.38%	0.121%
50	6.433	6.428	6.448	HH	2999	32638	6.02%	0.135%
51	6.454	6.448	6.467	HH	2423	25524	4.71%	0.106%
52	6.483	6.467	6.506	HH	3293	61522	11.34%	0.254%
53	6.532	6.506	6.573	HH	5957	134383	24.78%	0.556%
54	6.577	6.573	6.591	HH	2051	20401	3.76%	0.084%
55	6.615	6.591	6.662	HH	3445	97926	18.05%	0.405%
56	6.699	6.662	6.715	HH	2707	73787	13.60%	0.305%
57	6.731	6.715	6.745	HH	3781	56199	10.36%	0.232%
58	6.766	6.745	6.786	HH	13117	172275	31.76%	0.712%
59	6.802	6.786	6.825	HH	4367	79656	14.69%	0.329%
60	6.838	6.825	6.850	HH	3397	41925	7.73%	0.173%
61	6.861	6.850	6.875	HH	2992	40546	7.48%	0.168%
62	6.891	6.875	6.912	HH	5690	84923	15.66%	0.351%
63	6.936	6.912	6.960	HH	5965	105718	19.49%	0.437%
64	6.973	6.960	6.985	HH	2993	40643	7.49%	0.168%
65	7.011	6.985	7.039	HH	11273	172346	31.77%	0.713%
66	7.042	7.039	7.060	HH	3016	34587	6.38%	0.143%
67	7.072	7.060	7.082	HH	2866	36157	6.67%	0.150%
68	7.138	7.115	7.160	HH	5966	118057	21.77%	0.488%
69	7.179	7.160	7.216	HH	6943	145826	26.89%	0.603%
70	7.241	7.216	7.278	HH	17503	289403	53.36%	1.197%
71	7.290	7.278	7.307	HH	4072	57500	10.60%	0.238%
72	7.333	7.307	7.357	HH	16063	243664	44.92%	1.008%
73	7.376	7.357	7.410	HH	12901	236600	43.62%	0.979%
74	7.430	7.410	7.447	HH	5580	89779	16.55%	0.371%
75	7.457	7.447	7.467	HH	3533	40105	7.39%	0.166%
76	7.481	7.467	7.494	HH	3821	59588	10.99%	0.246%
77	7.497	7.494	7.503	HH	3593	17739	3.27%	0.073%
78	7.528	7.503	7.545	HH	10949	174601	32.19%	0.722%
79	7.555	7.545	7.574	HH	6393	91157	16.81%	0.377%
80	7.589	7.574	7.599	HH	5241	66496	12.26%	0.275%
81	7.606	7.599	7.619	HH	5582	65207	12.02%	0.270%
82	7.626	7.619	7.667	HH	5177	127902	23.58%	0.529%
83	7.683	7.667	7.706	HH	4166	88124	16.25%	0.364%
84	7.731	7.706	7.761	HH	11494	233357	43.02%	0.965%
85	7.779	7.761	7.804	HH	6093	107165	19.76%	0.443%
86	7.822	7.804	7.852	HH	4766	112458	20.73%	0.465%
87	7.870	7.852	7.879	HH	5850	78999	14.56%	0.327%
88	7.895	7.879	7.912	HH	7024	107989	19.91%	0.447%
89	7.925	7.912	7.940	HH	5049	73579	13.57%	0.304%

rteres

90	7.944	7.940	7.959	HH	4201	44430	8.19%	0.184%
91	7.963	7.959	7.970	HH	3799	25910	4.78%	0.107%
92	7.987	7.970	8.008	HH	6499	111809	20.61%	0.462%
93	8.024	8.008	8.050	HH	5653	119686	22.07%	0.495%
94	8.078	8.050	8.101	HH	5053	138015	25.45%	0.571%
95	8.139	8.101	8.152	HH	9926	203689	37.55%	0.842%
96	8.160	8.152	8.173	HH	9480	107685	19.85%	0.445%
97	8.234	8.211	8.240	HH	11431	136824	25.23%	0.566%
98	8.256	8.240	8.287	HH	21540	346164	63.82%	1.432%
99	8.304	8.287	8.324	HH	5707	113404	20.91%	0.469%
100	8.352	8.324	8.368	HH	22911	338562	62.42%	1.400%
101	8.380	8.368	8.402	HH	15767	233713	43.09%	0.967%
102	8.410	8.402	8.428	HH	7720	108664	20.03%	0.449%
103	8.442	8.428	8.456	HH	7489	114724	21.15%	0.474%
104	8.486	8.456	8.494	HH	7837	155931	28.75%	0.645%
105	8.527	8.494	8.569	HH	10441	348294	64.21%	1.440%
106	8.589	8.569	8.606	HH	10168	164068	30.25%	0.679%
107	8.628	8.606	8.639	HH	8230	140050	25.82%	0.579%
108	8.651	8.639	8.671	HH	8828	145296	26.79%	0.601%
109	8.679	8.671	8.699	HH	5978	89757	16.55%	0.371%
110	8.728	8.699	8.754	HH	5853	168450	31.06%	0.697%
111	8.766	8.754	8.776	HH	4815	59807	11.03%	0.247%
112	8.795	8.776	8.817	HH	7947	158097	29.15%	0.654%
113	8.825	8.817	8.843	HH	6336	93421	17.22%	0.386%
114	8.858	8.843	8.873	HH	6068	106677	19.67%	0.441%
115	8.891	8.873	8.924	HH	8646	206936	38.15%	0.856%
116	8.950	8.924	8.962	HH	8683	164043	30.24%	0.678%
117	8.980	8.962	9.015	HH	19693	332801	61.36%	1.376%
118	9.026	9.015	9.039	HH	5899	77352	14.26%	0.320%
119	9.053	9.039	9.062	HH	6476	81026	14.94%	0.335%
120	9.079	9.062	9.099	HH	12662	204574	37.72%	0.846%
121	9.120	9.099	9.137	HH	8161	169628	31.27%	0.702%
122	9.150	9.137	9.170	HH	7578	126659	23.35%	0.524%
123	9.248	9.232	9.265	HH	12753	187355	34.54%	0.775%
124	9.289	9.265	9.329	HH	14123	323533	59.65%	1.338%
125	9.350	9.329	9.371	HH	7119	149997	27.65%	0.620%
126	9.404	9.371	9.423	HH	12084	232269	42.82%	0.961%
127	9.437	9.423	9.456	HH	9050	142273	26.23%	0.588%
128	9.489	9.475	9.504	HH	6033	100513	18.53%	0.416%
129	9.542	9.504	9.579	HH	11985	344646	63.54%	1.425%
130	9.593	9.579	9.606	HH	5930	88349	16.29%	0.365%
131	9.638	9.606	9.672	HH	8602	265446	48.94%	1.098%
132	9.703	9.672	9.758	HH	12046	394610	72.75%	1.632%
133	9.777	9.758	9.789	HH	7194	120823	22.28%	0.500%
134	9.805	9.789	9.819	HH	8919	140112	25.83%	0.579%
135	9.831	9.819	9.855	HH	8800	161805	29.83%	0.669%
136	9.867	9.855	9.892	HH	6314	126203	23.27%	0.522%
137	9.904	9.892	9.930	HH	5281	117384	21.64%	0.485%
138	9.954	9.930	9.974	HH	7577	175670	32.39%	0.727%
139	10.000	9.974	10.022	HH	9909	222243	40.97%	0.919%
140	10.046	10.022	10.092	HH	8103	279854	51.60%	1.157%
141	10.108	10.092	10.127	HH	6081	125685	23.17%	0.520%

142	10.146	10.127	10.185	HH	6882	196904	36.30%	0.814%
143	10.216	10.185	10.244	HH	7324	206136	38.00%	0.853%
144	10.318	10.298	10.343	HH	5452	128719	23.73%	0.532%
145	10.371	10.343	10.387	HH	7149	149162	27.50%	0.617%
146	10.393	10.387	10.404	HH	5056	47641	8.78%	0.197%
147	10.433	10.404	10.459	HH	18020	342330	63.11%	1.416%
148	10.476	10.459	10.489	HH	7504	117813	21.72%	0.487%
149	10.505	10.489	10.527	HH	8544	167695	30.92%	0.694%
150	10.547	10.527	10.567	HH	9623	184164	33.95%	0.762%
151	10.578	10.567	10.601	HH	6958	119886	22.10%	0.496%
152	10.623	10.601	10.636	HH	7813	137128	25.28%	0.567%
153	10.641	10.636	10.661	HH	7415	103122	19.01%	0.426%
154	10.682	10.661	10.698	HH	7653	148130	27.31%	0.613%
155	10.717	10.698	10.737	HH	7146	148862	27.45%	0.616%
156	10.793	10.776	10.812	HH	7512	147273	27.15%	0.609%
157	10.855	10.812	10.884	HH	27071	542400	100.00%	2.243%
158	10.896	10.884	10.942	HH	7011	203210	37.47%	0.840%
159	10.979	10.942	11.007	HH	5832	205073	37.81%	0.848%
160	11.032	11.007	11.084	HH	7539	278438	51.33%	1.152%
161	11.117	11.084	11.147	HH	6288	200011	36.88%	0.827%
162	11.252	11.225	11.289	HH	5582	192676	35.52%	0.797%
163	11.293	11.289	11.298	HH	4749	23984	4.42%	0.099%
164	11.379	11.362	11.407	HH	6072	154061	28.40%	0.637%
165	11.430	11.407	11.465	HH	6221	193956	35.76%	0.802%
166	11.480	11.465	11.494	HH	5795	98514	18.16%	0.407%
167	11.505	11.494	11.535	HH	6015	137616	25.37%	0.569%
168	11.578	11.535	11.609	HH	16024	382099	70.45%	1.580%
169	11.624	11.609	11.662	HH	5140	148162	27.32%	0.613%
170	11.683	11.662	11.709	HH	5793	146052	26.93%	0.604%
171	11.720	11.709	11.741	HH	4691	86187	15.89%	0.356%
172	11.760	11.741	11.779	HH	5134	111542	20.56%	0.461%
173	11.786	11.779	11.812	HH	4690	88269	16.27%	0.365%
174	11.832	11.812	11.846	HH	6724	114408	21.09%	0.473%
175	11.864	11.846	11.901	HH	7222	187343	34.54%	0.775%
176	11.924	11.901	11.947	HH	4901	124246	22.91%	0.514%
177	11.978	11.947	11.998	HH	6876	163778	30.20%	0.677%
178	12.013	11.998	12.064	HH	5989	199283	36.74%	0.824%
179	12.085	12.064	12.102	HH	4524	95423	17.59%	0.395%
180	12.134	12.102	12.157	HH	7403	186135	34.32%	0.770%
181	12.169	12.157	12.208	HH	5202	138547	25.54%	0.573%
182	12.230	12.208	12.245	HH	4417	89942	16.58%	0.372%
183	12.268	12.245	12.298	HH	4176	126406	23.31%	0.523%
184	12.306	12.298	12.319	HH	3668	44423	8.19%	0.184%
185	12.362	12.319	12.412	HH	4228	211857	39.06%	0.876%
186	12.449	12.412	12.472	HH	4092	132500	24.43%	0.548%
187	12.576	12.544	12.606	HH	4002	132323	24.40%	0.547%
188	12.624	12.606	12.660	HH	4674	131183	24.19%	0.543%
189	12.664	12.660	12.689	HH	3690	60889	11.23%	0.252%
190	12.730	12.689	12.754	HH	6698	181393	33.44%	0.750%
191	12.767	12.754	12.782	HH	4542	70841	13.06%	0.293%
192	12.797	12.782	12.827	HH	4700	106775	19.69%	0.442%
193	12.850	12.827	12.897	HH	3777	138559	25.55%	0.573%
194	12.902	12.897	12.909	HH	2744	18556	3.42%	0.077%

rteres

195	12.920	12.909	12.925	HH	2773	25244	4.65%	0.104%
196	12.945	12.925	12.961	HH	3032	61864	11.41%	0.256%
197	12.974	12.961	13.006	HH	3042	70715	13.04%	0.292%
198	13.016	13.006	13.025	HH	2401	27325	5.04%	0.113%
199	13.069	13.058	13.110	HH	2629	75187	13.86%	0.311%
200	13.115	13.110	13.124	HH	2344	19410	3.58%	0.080%
201	13.146	13.124	13.196	HH	2799	102554	18.91%	0.424%
202	13.215	13.196	13.234	HH	2432	51329	9.46%	0.212%
203	13.242	13.234	13.259	HH	2313	33233	6.13%	0.137%
204	13.293	13.259	13.326	HH	3321	110249	20.33%	0.456%
205	13.332	13.326	13.397	HH	2445	86866	16.02%	0.359%
206	13.435	13.397	13.457	HH	2629	84224	15.53%	0.348%
207	13.544	13.530	13.555	HH	2121	29178	5.38%	0.121%
208	13.574	13.555	13.604	HH	2118	55245	10.19%	0.228%
209	13.629	13.604	13.656	HH	2042	57327	10.57%	0.237%
210	13.686	13.656	13.712	HH	1974	58990	10.88%	0.244%
211	13.725	13.712	13.776	HH	1704	60684	11.19%	0.251%
212	13.782	13.776	13.797	HH	1577	17351	3.20%	0.072%
213	13.816	13.797	13.827	HH	1471	25541	4.71%	0.106%
214	13.836	13.827	13.845	HH	1520	15416	2.84%	0.064%
215	13.850	13.845	13.877	HH	1502	27451	5.06%	0.114%
216	13.898	13.877	13.961	HH	1655	73251	13.51%	0.303%
217	13.966	13.961	13.977	HH	1197	11504	2.12%	0.048%
218	14.012	13.977	14.027	HH	1428	38650	7.13%	0.160%
219	14.032	14.027	14.059	HH	1468	23502	4.33%	0.097%
220	14.063	14.059	14.092	HH	1273	22389	4.13%	0.093%
221	14.099	14.092	14.111	HH	1120	12547	2.31%	0.052%
222	14.115	14.111	14.131	HH	1075	12355	2.28%	0.051%
223	14.149	14.131	14.175	HH	995	23488	4.33%	0.097%
224	14.196	14.175	14.207	HH	1012	18006	3.32%	0.074%
225	14.231	14.207	14.267	HH	1076	34431	6.35%	0.142%
226	14.352	14.321	14.361	HH	921	18289	3.37%	0.076%
227	14.364	14.361	14.378	HH	889	8587	1.58%	0.036%
228	14.382	14.378	14.392	HH	794	6414	1.18%	0.027%
229	14.397	14.392	14.406	HH	802	6259	1.15%	0.026%
230	14.410	14.406	14.420	HH	737	6162	1.14%	0.025%
231	14.428	14.420	14.432	HH	723	4762	0.88%	0.020%
232	14.438	14.432	14.446	HH	728	5528	1.02%	0.023%
233	14.464	14.446	14.482	HH	902	15349	2.83%	0.063%
234	14.489	14.482	14.527	HH	784	16493	3.04%	0.068%
235	14.529	14.527	14.539	HH	555	3473	0.64%	0.014%
236	14.550	14.539	14.557	HH	616	6424	1.18%	0.027%
237	14.565	14.557	14.579	HH	664	7770	1.43%	0.032%
238	14.583	14.579	14.602	HH	642	8039	1.48%	0.033%
239	14.622	14.602	14.649	HH	641	16171	2.98%	0.067%
240	14.685	14.649	14.691	HH	673	14916	2.75%	0.062%
241	14.697	14.691	14.704	HH	640	4773	0.88%	0.020%
242	14.712	14.704	14.751	HH	565	14158	2.61%	0.059%
243	14.757	14.751	14.763	HH	445	3032	0.56%	0.013%
244	14.769	14.763	14.779	HH	436	3885	0.72%	0.016%
245	14.798	14.779	14.811	HH	492	8344	1.54%	0.035%
246	14.816	14.811	14.825	HH	472	3429	0.63%	0.014%

rteres

247	14.833	14.825	14.862	HH	430	9244	1.70%	0.038%
248	14.895	14.862	14.924	HH	1201	26322	4.85%	0.109%
249	14.929	14.924	14.933	HH	460	2164	0.40%	0.009%
250	14.936	14.933	14.946	HH	428	2975	0.55%	0.012%
251	14.950	14.946	14.964	HH	385	3623	0.67%	0.015%
252	14.967	14.964	14.972	HH	352	1616	0.30%	0.007%
253	14.974	14.972	14.982	HH	361	1772	0.33%	0.007%
254	14.990	14.982	15.004	HH	379	4013	0.74%	0.017%
255	15.014	15.004	15.037	HH	337	5590	1.03%	0.023%
256	15.042	15.037	15.049	HH	267	1612	0.30%	0.007%
257	15.058	15.049	15.069	HH	324	3399	0.63%	0.014%
258	15.095	15.069	15.129	HH	432	11757	2.17%	0.049%
259	15.134	15.129	15.144	HH	333	2591	0.48%	0.011%
260	15.151	15.144	15.166	HH	322	3740	0.69%	0.015%
261	15.171	15.166	15.232	HH	381	10502	1.94%	0.043%
262	15.246	15.232	15.262	HH	309	4260	0.79%	0.018%
263	15.268	15.262	15.317	HH	255	6955	1.28%	0.029%
264	15.326	15.317	15.398	HH	242	8092	1.49%	0.033%
265	15.403	15.398	15.431	HH	212	2588	0.48%	0.011%
266	15.478	15.431	15.491	HH	266	6656	1.23%	0.028%
267	15.493	15.491	15.502	HH	279	1620	0.30%	0.007%
268	15.520	15.502	15.602	HH	350	11868	2.19%	0.049%
269	15.618	15.602	15.654	HH	266	6234	1.15%	0.026%
270	15.719	15.716	15.764	HH	135	2485	0.46%	0.010%
271	15.775	15.764	15.822	HH	131	2984	0.55%	0.012%
272	15.848	15.822	15.891	HH	158	5176	0.95%	0.021%
273	15.924	15.891	15.944	HH	251	5214	0.96%	0.022%
274	15.954	15.944	15.971	HH	171	2067	0.38%	0.009%
275	15.986	15.971	15.997	HH	181	2420	0.45%	0.010%
276	16.069	15.997	16.084	HH	233	9011	1.66%	0.037%
277	16.115	16.084	16.142	HH	383	8557	1.58%	0.035%
278	16.148	16.142	16.159	HH	257	2132	0.39%	0.009%

Sum of corrected areas: 24179581

FF091124.M Fri Sep 20 03:41:17 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-14-7.5-10B	SDG No.:	P4103
Lab Sample ID:	P4103-13	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.1 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014555.D	25	09/19/24 11:09	09/20/24 9:03	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	90700		5240	47200	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.50		37 - 130	62%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014555.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 09:03
Operator : YP\AJ
Sample : P4103-13 25X
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Sep 20 09:58:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.890	53323	0.497 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014555.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 09:03
Operator : YP\AJ
Sample : P4103-13 25X
Misc :
ALS Vial : 71 Sample Multiplier: 1

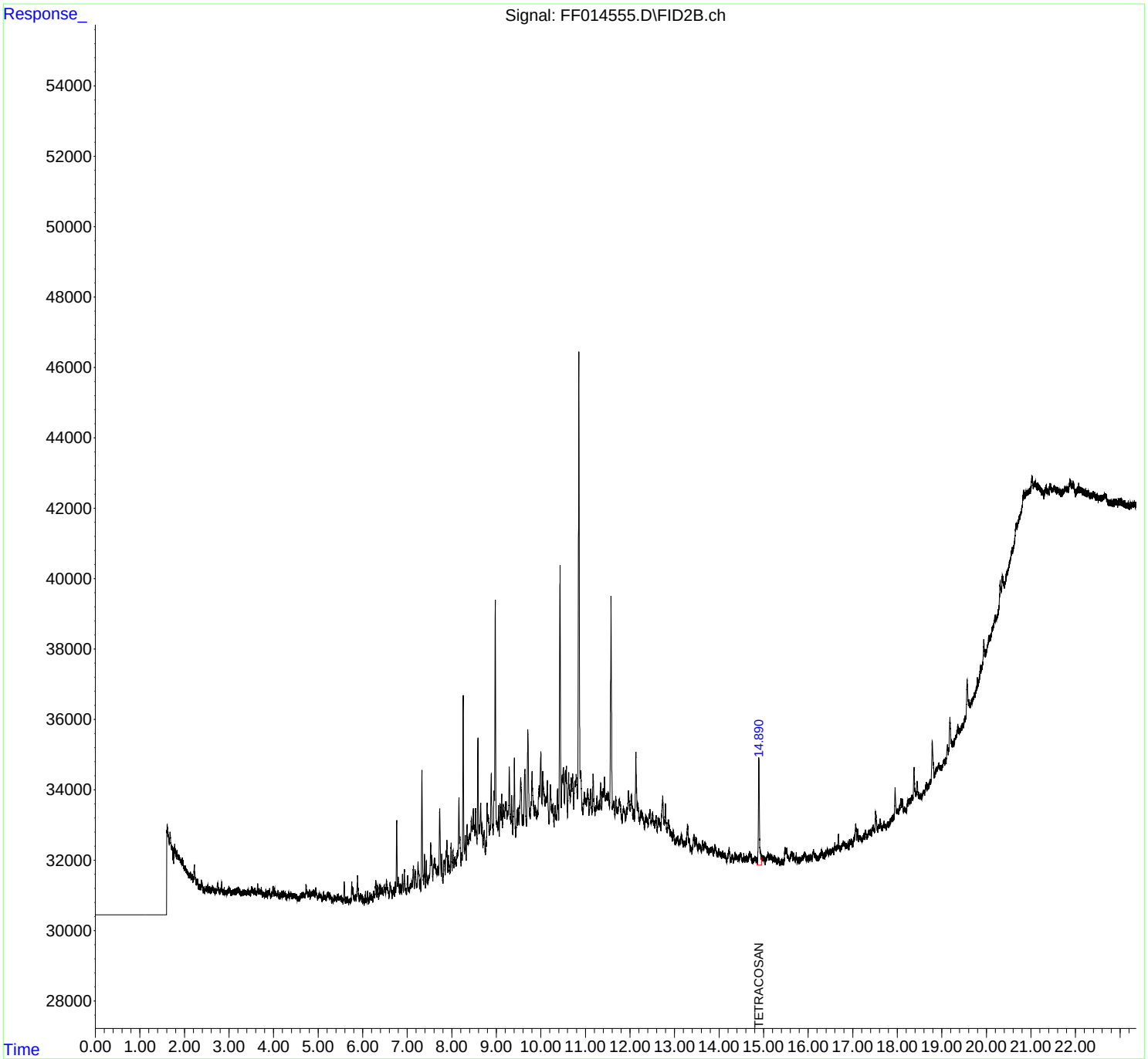
Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

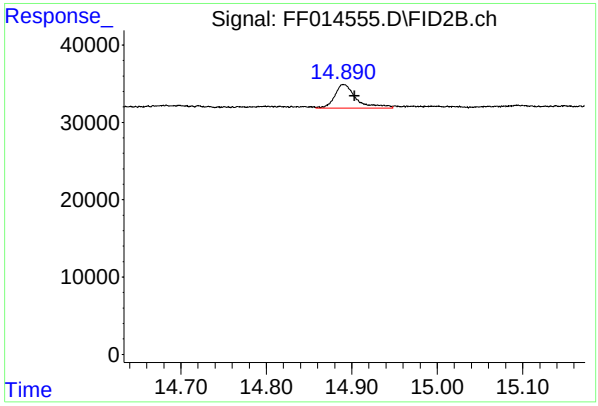
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

Integration File: autoint1.e
Quant Time: Sep 20 09:58:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.890 min
Delta R.T.: -0.013 mir
Response: 53323
Conc: 0.50 ug/m

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Area Percent Repor

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data
Data File : FF014555.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 09:03
Sample : P4103-13 25X
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	6.294	6.273	6.318	PH	425	5284	1.84%	0.047%
2	6.332	6.318	6.357	PH	288	2625	0.92%	0.023%
3	6.377	6.357	6.390	PH	330	2010	0.70%	0.018%
4	6.400	6.390	6.427	HH	291	3391	1.18%	0.030%
5	6.438	6.427	6.448	HH	222	1746	0.61%	0.015%
6	6.449	6.448	6.452	HH	159	293	0.10%	0.003%
7	6.456	6.452	6.468	HH	141	774	0.27%	0.007%
8	6.486	6.468	6.520	HH	305	5367	1.87%	0.047%
9	6.536	6.520	6.590	HH	466	8803	3.07%	0.078%
10	6.619	6.590	6.634	PH	372	4807	1.68%	0.042%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

11	6.638	6.634	6.662	HH	250	1402	0.4	
12	6.698	6.662	6.721	PH	252	3729	1.3	
13	6.735	6.721	6.745	HH	397	3373	1.18%	0.030%
14	6.765	6.745	6.785	HH	2116	24798	8.65%	0.219%
15	6.797	6.785	6.827	HH	518	8070	2.82%	0.071%
16	6.839	6.827	6.850	HH	337	3188	1.11%	0.028%
17	6.867	6.850	6.879	HH	270	3214	1.12%	0.028%
18	6.894	6.879	6.917	HH	603	6649	2.32%	0.059%
19	6.937	6.917	6.964	HH	738	10242	3.57%	0.090%
20	6.973	6.964	6.988	HH	214	2056	0.72%	0.018%
21	7.010	6.988	7.047	HH	560	9837	3.43%	0.087%
22	7.072	7.047	7.077	HH	355	4313	1.51%	0.038%
23	7.100	7.077	7.115	HH	367	6914	2.41%	0.061%
24	7.139	7.115	7.161	HH	825	14079	4.91%	0.124%
25	7.177	7.161	7.210	HH	735	14253	4.97%	0.126%
26	7.244	7.210	7.256	HH	975	16067	5.61%	0.142%
27	7.260	7.256	7.279	HH	709	6872	2.40%	0.061%
28	7.290	7.279	7.304	HH	449	4898	1.71%	0.043%
29	7.331	7.304	7.369	HH	3543	50119	17.49%	0.442%
30	7.390	7.369	7.411	HH	1129	16739	5.84%	0.148%
31	7.429	7.411	7.452	HH	985	14805	5.17%	0.130%
32	7.457	7.452	7.467	HH	548	4151	1.45%	0.037%
33	7.529	7.467	7.545	HH	1492	36699	12.81%	0.323%
34	7.554	7.545	7.576	HH	1126	16182	5.65%	0.143%
35	7.591	7.576	7.597	HH	849	8598	3.00%	0.076%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

36	7.607	7.597	7.627	HH	1052	16219	5.	
37	7.643	7.627	7.668	HH	890	18729	6.5	
38	7.688	7.668	7.704	HH	839	15423	5.3	
39	7.731	7.704	7.762	HH	2479	48579	16.95%	0.428%
40	7.776	7.762	7.803	HH	1149	17853	6.23%	0.157%
41	7.822	7.803	7.829	HH	953	11803	4.12%	0.104%
42	7.833	7.829	7.855	HH	982	12996	4.54%	0.115%
43	7.874	7.855	7.881	HH	1186	15723	5.49%	0.139%
44	7.893	7.881	7.911	HH	1566	22218	7.75%	0.196%
45	7.924	7.911	7.959	HH	1091	24664	8.61%	0.217%
46	7.987	7.959	8.009	HH	1439	30471	10.63%	0.269%
47	8.027	8.009	8.047	HH	1278	23479	8.19%	0.207%
48	8.067	8.047	8.100	HH	1068	30123	10.51%	0.265%
49	8.132	8.100	8.141	HH	1283	27600	9.63%	0.243%
50	8.162	8.141	8.178	HH	2779	43798	15.29%	0.386%
51	8.183	8.178	8.207	HH	1632	22672	7.91%	0.200%
52	8.228	8.207	8.237	HH	1236	19407	6.77%	0.171%
53	8.257	8.237	8.287	HH	5660	82114	28.66%	0.724%
54	8.306	8.287	8.326	HH	1662	32559	11.36%	0.287%
55	8.344	8.326	8.367	HH	1978	39319	13.72%	0.347%
56	8.404	8.367	8.409	HH	1743	40462	14.12%	0.357%
57	8.413	8.409	8.422	HH	1714	13308	4.64%	0.117%
58	8.440	8.422	8.455	HH	2207	38336	13.38%	0.338%
59	8.485	8.455	8.499	HH	2460	54589	19.05%	0.481%
60	8.507	8.499	8.519	HH	1991	22189	7.74%	0.196%
61	8.534	8.519	8.567	HH	2477	56821	19.83%	0.501%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

62	8.587	8.567	8.607	HH	4425	67945	23	
63	8.616	8.607	8.629	HH	2005	24475	8.	
64	8.652	8.629	8.670	HH	2584	53854	18	
65	8.679	8.670	8.698	HH	2011	30736	10.73%	0.271%
66	8.728	8.698	8.755	HH	1819	53616	18.71%	0.473%
67	8.766	8.755	8.776	HH	1573	18252	6.37%	0.161%
68	8.794	8.776	8.808	HH	2593	40809	14.24%	0.360%
69	8.813	8.808	8.818	HH	2311	13916	4.86%	0.123%
70	8.821	8.818	8.846	HH	2229	32988	11.51%	0.291%
71	8.859	8.846	8.865	HH	1978	22057	7.70%	0.194%
72	8.887	8.865	8.930	HH	3460	92778	32.38%	0.818%
73	8.951	8.930	8.961	HH	2972	46263	16.15%	0.408%
74	8.978	8.961	9.021	HH	8391	142158	49.61%	1.253%
75	9.028	9.021	9.037	HH	2042	18868	6.58%	0.166%
76	9.052	9.037	9.067	HH	2553	39075	13.64%	0.344%
77	9.086	9.067	9.107	HH	2576	55485	19.36%	0.489%
78	9.123	9.107	9.140	HH	2875	46977	16.39%	0.414%
79	9.155	9.140	9.187	HH	2588	65402	22.82%	0.576%
80	9.205	9.187	9.214	HH	2634	41200	14.38%	0.363%
81	9.223	9.214	9.238	HH	2624	35552	12.41%	0.313%
82	9.251	9.238	9.258	HH	2377	27238	9.51%	0.240%
83	9.292	9.258	9.325	HH	3650	107772	37.61%	0.950%
84	9.347	9.325	9.369	HH	2834	60467	21.10%	0.533%
85	9.406	9.369	9.436	HH	3878	100500	35.07%	0.886%
86	9.464	9.436	9.477	HH	2424	50137	17.50%	0.442%
87	9.491	9.477	9.508	HH	2497	41955	14.64%	0.370%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

88	9.546	9.508	9.581	HH	3286	117696	4		
89	9.593	9.581	9.607	HH	2258	34128	11		
90	9.642	9.607	9.677	HH	3550	111449	3		
91	9.709	9.677	9.760	HH	4696	153024	53.40%	1.349%	
92	9.802	9.760	9.855	HH	3524	155868	54.40%	1.374%	
93	9.873	9.855	9.897	HH	2552	60159	21.00%	0.530%	
94	9.917	9.897	9.929	HH	2387	43881	15.31%	0.387%	
95	9.962	9.929	9.977	HH	3104	80471	28.08%	0.709%	
96	9.999	9.977	10.024	HH	4053	95164	33.21%	0.839%	
97	10.042	10.024	10.065	HH	3510	77455	27.03%	0.683%	
98	10.069	10.065	10.092	HH	2920	43501	15.18%	0.383%	
99	10.102	10.092	10.111	HH	2739	30873	10.77%	0.272%	
100	10.147	10.111	10.187	HH	3253	121006	42.23%	1.066%	
101	10.215	10.187	10.242	HH	3139	88667	30.94%	0.781%	
102	10.252	10.242	10.263	HH	2548	30303	10.58%	0.267%	
103	10.275	10.263	10.298	HH	2611	49411	17.24%	0.435%	
104	10.318	10.298	10.352	HH	2530	73995	25.82%	0.652%	
105	10.372	10.352	10.401	HH	2958	74597	26.03%	0.657%	
106	10.431	10.401	10.459	HH	9373	173956	60.71%	1.533%	
107	10.478	10.459	10.492	HH	3414	61914	21.61%	0.546%	
108	10.507	10.492	10.529	HH	3640	71615	24.99%	0.631%	
109	10.552	10.529	10.565	HH	3537	70251	24.52%	0.619%	
110	10.576	10.565	10.600	HH	3653	64732	22.59%	0.571%	
111	10.626	10.600	10.659	HH	3455	103416	36.09%	0.911%	
112	10.681	10.659	10.698	HH	3348	70584	24.63%	0.622%	
113	10.715	10.698	10.737	HH	3418	72889	25.44%	0.642%	

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

114	10.760	10.737	10.771	HH	3254	61075			
115	10.794	10.771	10.820	HH	3446	93020			
116	10.854	10.820	10.884	HH	15434	286537	100.00%	2.525%	
117	10.895	10.884	10.940	HH	3531	100431	35.05%	0.885%	
118	10.978	10.940	11.004	HH	2928	101838	35.54%	0.898%	
119	11.009	11.004	11.013	HH	2756	13626	4.76%	0.120%	
120	11.017	11.013	11.027	HH	2703	22866	7.98%	0.202%	
121	11.052	11.027	11.080	HH	3013	87545	30.55%	0.772%	
122	11.121	11.080	11.144	HH	2989	102879	35.90%	0.907%	
123	11.173	11.144	11.215	HH	3396	115767	40.40%	1.020%	
124	11.235	11.215	11.241	HH	2534	36912	12.88%	0.325%	
125	11.258	11.241	11.279	HH	2839	60043	20.95%	0.529%	
126	11.309	11.279	11.321	HH	2694	64453	22.49%	0.568%	
127	11.342	11.321	11.365	HH	3156	73448	25.63%	0.647%	
128	11.383	11.365	11.388	HH	2880	39499	13.78%	0.348%	
129	11.398	11.388	11.412	HH	3030	41498	14.48%	0.366%	
130	11.428	11.412	11.454	HH	3360	75055	26.19%	0.661%	
131	11.461	11.454	11.471	HH	2817	28105	9.81%	0.248%	
132	11.476	11.471	11.497	HH	2898	44540	15.54%	0.393%	
133	11.506	11.497	11.534	HH	2927	61702	21.53%	0.544%	
134	11.538	11.534	11.543	HH	2625	14187	4.95%	0.125%	
135	11.575	11.543	11.607	HH	8456	182962	63.85%	1.612%	
136	11.630	11.607	11.660	HH	2670	80408	28.06%	0.709%	
137	11.681	11.660	11.710	HH	2804	76160	26.58%	0.671%	
138	11.718	11.710	11.735	HH	2472	35705	12.46%	0.315%	
139	11.756	11.735	11.810	HH	2720	115329	40.25%	1.016%	

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

140	11.814	11.810	11.826	HH	2284	21165			
141	11.852	11.826	11.867	HH	2491	57170			
142	11.871	11.867	11.905	HH	2455	53137	18.54%	0.468%	
143	11.924	11.905	11.937	HH	2482	44581	15.56%	0.393%	
144	11.965	11.937	12.004	HH	2987	105410	36.79%	0.929%	
145	12.033	12.004	12.069	HH	2871	99238	34.63%	0.875%	
146	12.086	12.069	12.099	HH	2449	42679	14.89%	0.376%	
147	12.135	12.099	12.159	HH	4064	106781	37.27%	0.941%	
148	12.174	12.159	12.217	HH	2617	83318	29.08%	0.734%	
149	12.242	12.217	12.249	HH	2351	43333	15.12%	0.382%	
150	12.254	12.249	12.259	HH	2403	13932	4.86%	0.123%	
151	12.264	12.259	12.267	HH	2345	11833	4.13%	0.104%	
152	12.271	12.267	12.326	HH	2356	76448	26.68%	0.674%	
153	12.352	12.326	12.367	HH	2258	52615	18.36%	0.464%	
154	12.375	12.367	12.410	HH	2226	54614	19.06%	0.481%	
155	12.430	12.410	12.437	HH	2315	35377	12.35%	0.312%	
156	12.450	12.437	12.482	HH	2438	60038	20.95%	0.529%	
157	12.508	12.482	12.528	HH	2363	60897	21.25%	0.537%	
158	12.537	12.528	12.555	HH	2123	33171	11.58%	0.292%	
159	12.583	12.555	12.614	HH	2257	72361	25.25%	0.638%	
160	12.627	12.614	12.652	HH	2156	46886	16.36%	0.413%	
161	12.661	12.652	12.697	HH	2172	55710	19.44%	0.491%	
162	12.733	12.697	12.770	HH	2802	104297	36.40%	0.919%	
163	12.797	12.770	12.827	HH	2588	74866	26.13%	0.660%	
164	12.833	12.827	12.837	HH	1852	11247	3.93%	0.099%	
165	12.858	12.837	12.893	HH	2137	66518	23.21%	0.586%	

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

166	12.902	12.893	12.953	HH	1868	63188		
167	12.975	12.953	13.010	HH	1836	56797		
168	13.046	13.010	13.050	HH	1628	36911	12.88%	0.325%
169	13.059	13.050	13.094	HH	1671	41610	14.52%	0.367%
170	13.104	13.094	13.113	HH	1548	17600	6.14%	0.155%
171	13.118	13.113	13.133	HH	1563	18337	6.40%	0.162%
172	13.154	13.133	13.209	HH	1751	71067	24.80%	0.626%
173	13.215	13.209	13.235	HH	1540	23754	8.29%	0.209%
174	13.247	13.235	13.254	HH	1555	16492	5.76%	0.145%
175	13.262	13.254	13.270	HH	1609	14821	5.17%	0.131%
176	13.292	13.270	13.324	HH	2015	56765	19.81%	0.500%
177	13.326	13.324	13.365	HH	1623	36344	12.68%	0.320%
178	13.372	13.365	13.389	HH	1381	18327	6.40%	0.162%
179	13.438	13.389	13.470	HH	1724	72696	25.37%	0.641%
180	13.477	13.470	13.527	HH	1651	49957	17.43%	0.440%
181	13.543	13.527	13.572	HH	1458	38160	13.32%	0.336%
182	13.580	13.572	13.605	HH	1464	26673	9.31%	0.235%
183	13.629	13.605	13.658	HH	1546	44283	15.45%	0.390%
184	13.677	13.658	13.709	HH	1507	43356	15.13%	0.382%
185	13.713	13.709	13.730	HH	1407	17598	6.14%	0.155%
186	13.735	13.730	13.754	HH	1377	18327	6.40%	0.162%
187	13.757	13.754	13.767	HH	1284	10043	3.51%	0.089%
188	13.795	13.767	13.807	HH	1340	30417	10.62%	0.268%
189	13.813	13.807	13.832	HH	1339	19463	6.79%	0.172%
190	13.847	13.832	13.874	HH	1381	32882	11.48%	0.290%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

191	13.905	13.874	13.924	HH	1450	39249		
192	13.928	13.924	13.953	HH	1345	21730		
193	13.959	13.953	13.972	HH	1215	13535		
194	13.994	13.972	14.004	HH	1327	23308	8.13%	0.205%
195	14.013	14.004	14.018	HH	1225	9965	3.48%	0.088%
196	14.022	14.018	14.061	HH	1256	30626	10.69%	0.270%
197	14.069	14.061	14.096	HH	1239	23681	8.26%	0.209%
198	14.102	14.096	14.161	HH	1206	44188	15.42%	0.389%
199	14.167	14.161	14.174	HH	1058	7793	2.72%	0.069%
200	14.228	14.174	14.280	HH	1350	71785	25.05%	0.633%
201	14.288	14.280	14.299	HH	1177	12560	4.38%	0.111%
202	14.302	14.299	14.320	HH	1146	13715	4.79%	0.121%
203	14.356	14.320	14.422	HH	1248	66026	23.04%	0.582%
204	14.439	14.422	14.450	HH	1136	18090	6.31%	0.159%
205	14.465	14.450	14.470	HH	1126	12804	4.47%	0.113%
206	14.488	14.470	14.517	HH	1197	31592	11.03%	0.278%
207	14.520	14.517	14.527	HH	1052	5835	2.04%	0.051%
208	14.552	14.527	14.584	HH	1193	35496	12.39%	0.313%
209	14.608	14.584	14.617	HH	1120	20987	7.32%	0.185%
210	14.624	14.617	14.656	HH	1069	24244	8.46%	0.214%
211	14.683	14.656	14.687	HH	1216	21205	7.40%	0.187%
212	14.698	14.687	14.762	HH	1204	48340	16.87%	0.426%
213	14.767	14.762	14.789	HH	1056	15911	5.55%	0.140%
214	14.799	14.789	14.812	HH	1094	14844	5.18%	0.131%
215	14.816	14.812	14.839	HH	1085	16618	5.80%	0.146%
216	14.845	14.839	14.863	HH	1069	14771	5.16%	0.130%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

217	14.891	14.863	14.963	HH	3912	106901		
218	14.994	14.963	15.009	HH	1107	29242		
219	15.012	15.009	15.042	HH	1111	20167		
220	15.069	15.042	15.073	HH	1092	19676	6.87%	0.173%
221	15.094	15.073	15.122	HH	1225	33328	11.63%	0.294%
222	15.127	15.122	15.135	HH	1122	8505	2.97%	0.075%
223	15.139	15.135	15.143	HH	1165	5204	1.82%	0.046%
224	15.149	15.143	15.164	HH	1183	13824	4.82%	0.122%
225	15.167	15.164	15.198	HH	1155	22011	7.68%	0.194%
226	15.202	15.198	15.217	HH	1010	12048	4.20%	0.106%
227	15.238	15.217	15.259	HH	1120	26129	9.12%	0.230%
228	15.262	15.259	15.294	HH	1063	21343	7.45%	0.188%
229	15.301	15.294	15.309	HH	972	8603	3.00%	0.076%
230	15.315	15.309	15.336	HH	1033	16225	5.66%	0.143%
231	15.340	15.336	15.367	HH	1074	17871	6.24%	0.158%
232	15.380	15.367	15.390	HH	974	13200	4.61%	0.116%
233	15.398	15.390	15.426	HH	987	20454	7.14%	0.180%
234	15.430	15.426	15.444	HH	1002	10161	3.55%	0.090%
235	15.480	15.444	15.498	HH	1369	36867	12.87%	0.325%
236	15.509	15.498	15.515	HH	1256	12975	4.53%	0.114%
237	15.520	15.515	15.568	HH	1332	35918	12.54%	0.317%
238	15.572	15.568	15.588	HH	1056	12427	4.34%	0.110%
239	15.616	15.588	15.620	HH	1225	21661	7.56%	0.191%
240	15.632	15.620	15.657	HH	1233	25831	9.01%	0.228%
241	15.663	15.657	15.667	HH	1158	7045	2.46%	0.062%
242	15.671	15.667	15.709	HH	1206	26611	9.29%	0.235%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

243	15.732	15.709	15.754	HH	1129	28577		
244	15.769	15.754	15.779	HH	1039	15170		
245	15.814	15.779	15.835	HH	1109	34441		
246	15.844	15.835	15.851	HH	1088	9777	3.41%	0.086%
247	15.861	15.851	15.865	HH	1116	9485	3.31%	0.084%
248	15.870	15.865	15.886	HH	1127	13199	4.61%	0.116%
249	15.924	15.886	15.979	HH	1230	62435	21.79%	0.550%
250	15.995	15.979	16.008	HH	1122	18118	6.32%	0.160%
251	16.014	16.008	16.042	HH	1140	22074	7.70%	0.195%
252	16.046	16.042	16.051	HH	1111	5537	1.93%	0.049%
253	16.057	16.051	16.069	HH	1154	11911	4.16%	0.105%
254	16.073	16.069	16.086	HH	1093	11158	3.89%	0.098%
255	16.118	16.086	16.134	HH	1285	33580	11.72%	0.296%
256	16.141	16.134	16.147	HH	1184	8861	3.09%	0.078%
257	16.152	16.147	16.160	HH	1199	9434	3.29%	0.083%
258	16.166	16.160	16.195	HH	1187	22519	7.86%	0.198%
259	16.205	16.195	16.209	HH	1117	9223	3.22%	0.081%
260	16.239	16.209	16.249	HH	1119	25561	8.92%	0.225%
261	16.256	16.249	16.266	HH	1180	11547	4.03%	0.102%
262	16.271	16.266	16.285	HH	1160	13552	4.73%	0.119%
263	16.299	16.285	16.335	HH	1305	35996	12.56%	0.317%
264	16.342	16.335	16.345	HH	1150	6650	2.32%	0.059%
265	16.386	16.345	16.412	HH	1251	47024	16.41%	0.414%
266	16.426	16.412	16.465	HH	1331	39686	13.85%	0.350%
267	16.486	16.465	16.516	HH	1326	37683	13.15%	0.332%
268	16.533	16.516	16.538	HH	1301	16606	5.80%	0.146%

Instrument :
FID_F
ClientSampleId :
WC-14-7.5-10B

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/23/2024

269	16.542	16.538	16.546	HH	1329	5784		
270	16.555	16.546	16.580	HH	1355	25772		
271	16.596	16.580	16.620	HH	1505	33212	11.59%	0.293%
272	16.642	16.620	16.649	HH	1373	23096	8.06%	0.204%
273	16.677	16.649	16.714	HH	1742	56742	19.80%	0.500%
274	16.729	16.714	16.746	HH	1385	26027	9.08%	0.229%
275	16.759	16.746	16.764	HH	1463	15527	5.42%	0.137%
276	16.786	16.764	16.819	HH	1525	48081	16.78%	0.424%
277	16.825	16.819	16.839	HH	1508	17293	6.04%	0.152%
278	16.842	16.839	16.857	HH	1446	15869	5.54%	0.140%
279	16.865	16.857	16.879	HH	1477	18243	6.37%	0.161%
280	16.882	16.879	16.902	HH	1432	19730	6.89%	0.174%
281	16.925	16.902	16.931	HH	1580	25544	8.91%	0.225%
282	16.936	16.931	16.946	HH	1520	13253	4.63%	0.117%
283	16.965	16.946	16.988	HH	1597	38002	13.26%	0.335%
284	16.996	16.988	17.005	HH	1537	15159	5.29%	0.134%
285	17.039	17.005	17.045	HH	1694	37979	13.25%	0.335%
286	17.069	17.045	17.091	HH	2023	50131	17.50%	0.442%
287	17.112	17.091	17.128	HH	1872	37989	13.26%	0.335%
288	17.140	17.128	17.159	HH	1695	30286	10.57%	0.267%
289	17.162	17.159	17.200	HHA	1663	41542	14.50%	0.366%

Sum of corrected areas: 11346554

FF091124.M Fri Sep 20 10:09:07 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-23	SDG No.:	P4103
Lab Sample ID:	P4103-16	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86 Decanted:
Sample Wt/Vol:	30.1 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
FF014548.D	50	09/19/24 11:09	09/20/24 0:21	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	175000		10700	96600	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.00	*	37 - 130	0%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014548.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 00:21
Operator : YP\AJ
Sample : P4103-16 50X
Misc :
ALS Vial : 86 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-23

Integration File: autoint1.e
Quant Time: Sep 20 02:29:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

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

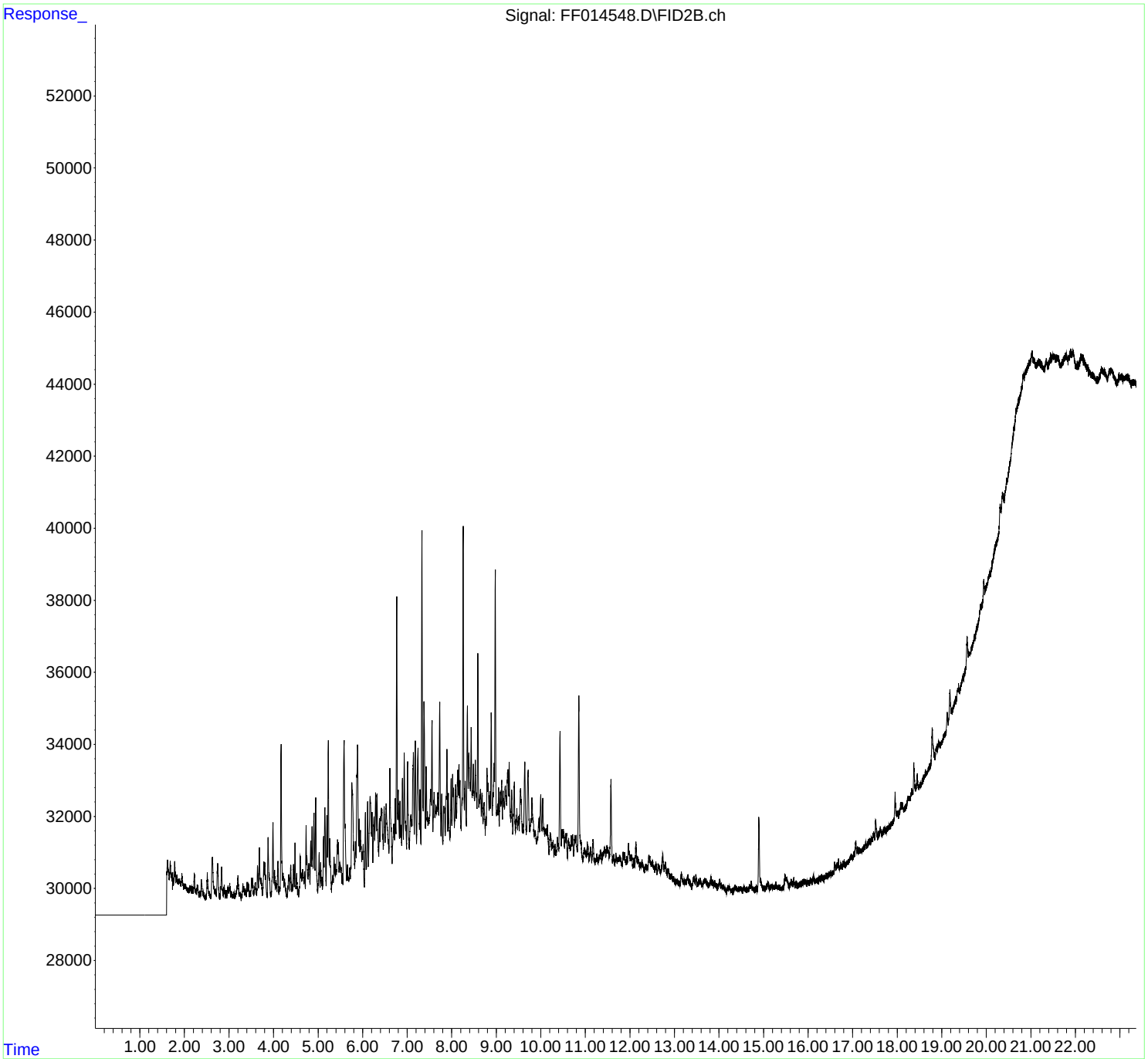
Quantitation Report (QT Reviewed)

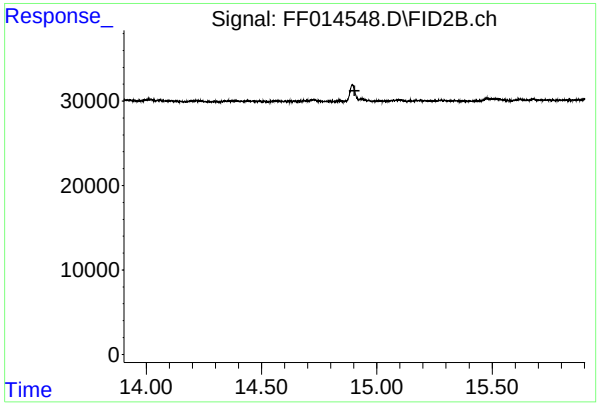
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014548.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 00:21
Operator : YP\AJ
Sample : P4103-16 50X
Misc :
ALS Vial : 86 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-23

Integration File: autoint1.e
Quant Time: Sep 20 02:29:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 0.000 min
Exp R.T. : 14.903 mi
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
WC-23

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014548.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 00:21
Sample : P4103-16 50X
Misc :
ALS Vial : 86 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.988	3.940	4.009	BH	2043	29670	15.56%	0.279%
2	4.022	4.009	4.040	HH	703	9127	4.79%	0.086%
3	4.055	4.040	4.077	HH	414	6626	3.47%	0.062%
4	4.098	4.077	4.122	HH	963	13206	6.92%	0.124%
5	4.134	4.122	4.146	HH	265	2643	1.39%	0.025%
6	4.169	4.146	4.206	HH	4210	57401	30.10%	0.539%
7	4.215	4.206	4.233	HH	621	7997	4.19%	0.075%
8	4.247	4.233	4.304	HH	479	9143	4.79%	0.086%
9	4.342	4.304	4.345	PH	589	6716	3.52%	0.063%
10	4.350	4.345	4.365	HH	569	5050	2.65%	0.047%
11	4.387	4.365	4.414	HH	841	12672	6.64%	0.119%
12	4.449	4.414	4.467	HH	838	14420	7.56%	0.135%
13	4.482	4.467	4.503	HH	1424	16591	8.70%	0.156%
14	4.520	4.503	4.545	HH	592	8293	4.35%	0.078%
15	4.552	4.545	4.563	HH	165	1268	0.66%	0.012%
16	4.599	4.563	4.639	HH	1110	23375	12.26%	0.220%
17	4.653	4.639	4.684	HH	742	14941	7.83%	0.140%
18	4.697	4.684	4.713	HH	675	8212	4.31%	0.077%
19	4.731	4.713	4.744	HH	1958	20847	10.93%	0.196%
20	4.751	4.744	4.773	HH	1103	13856	7.26%	0.130%
21	4.793	4.773	4.818	HH	885	19128	10.03%	0.180%
22	4.836	4.818	4.849	HH	1490	18549	9.73%	0.174%
23	4.865	4.849	4.886	HH	1870	28017	14.69%	0.263%
24	4.908	4.886	4.929	HH	2253	36782	19.29%	0.346%
25	4.948	4.929	4.993	HH	2740	43870	23.00%	0.412%
26	5.025	4.993	5.047	HH	1210	18570	9.74%	0.174%
27	5.059	5.047	5.081	HH	933	12144	6.37%	0.114%
28	5.088	5.081	5.100	HH	503	4462	2.34%	0.042%
29	5.123	5.100	5.134	HH	1652	18985	9.95%	0.178%
30	5.152	5.134	5.181	HH	2458	41406	21.71%	0.389%
31	5.199	5.181	5.211	HH	2213	25702	13.48%	0.241%
32	5.229	5.211	5.251	HH	4294	56785	29.77%	0.533%
33	5.264	5.251	5.301	HH	1594	27383	14.36%	0.257%
34	5.331	5.301	5.343	HH	564	10451	5.48%	0.098%
35	5.359	5.343	5.377	HH	1091	16302	8.55%	0.153%
36	5.385	5.377	5.395	HH	889	8324	4.36%	0.078%

rteres

37	5.405	5.395	5.411	HH	677	6213	3.26%	0.058%
38	5.436	5.411	5.450	HH	1538	27287	14.31%	0.256%
39	5.457	5.450	5.471	HH	1493	15263	8.00%	0.143%
40	5.488	5.471	5.510	HH	943	19557	10.25%	0.184%
41	5.521	5.510	5.534	HH	788	9210	4.83%	0.087%
42	5.546	5.534	5.556	HH	568	6380	3.34%	0.060%
43	5.584	5.556	5.605	HH	4306	76828	40.28%	0.722%
44	5.607	5.605	5.644	HH	2000	25570	13.41%	0.240%
45	5.658	5.644	5.684	HH	860	14862	7.79%	0.140%
46	5.708	5.684	5.723	HH	782	13885	7.28%	0.130%
47	5.760	5.723	5.799	HH	3147	87857	46.07%	0.825%
48	5.807	5.799	5.823	HH	1473	17594	9.22%	0.165%
49	5.845	5.823	5.854	HH	1514	22673	11.89%	0.213%
50	5.888	5.854	5.912	HH	4187	96991	50.85%	0.911%
51	5.925	5.912	5.938	HH	2126	26336	13.81%	0.247%
52	5.950	5.938	5.981	HH	1790	37270	19.54%	0.350%
53	5.991	5.981	6.001	HH	1236	12923	6.78%	0.121%
54	6.013	6.001	6.039	HH	1430	21393	11.22%	0.201%
55	6.061	6.039	6.078	HH	2288	29677	15.56%	0.279%
56	6.113	6.078	6.131	HH	2621	47774	25.05%	0.449%
57	6.169	6.131	6.201	HH	2772	86482	45.34%	0.812%
58	6.213	6.201	6.230	HH	2304	30125	15.80%	0.283%
59	6.254	6.230	6.274	HH	2195	45016	23.60%	0.423%
60	6.292	6.274	6.309	HH	2865	49134	25.76%	0.462%
61	6.324	6.309	6.363	HH	2837	62961	33.01%	0.591%
62	6.378	6.363	6.390	HH	2137	27723	14.54%	0.260%
63	6.403	6.390	6.410	HH	2222	24182	12.68%	0.227%
64	6.422	6.410	6.428	HH	2432	24578	12.89%	0.231%
65	6.432	6.428	6.467	HH	2403	42641	22.36%	0.401%
66	6.483	6.467	6.508	HH	2468	47373	24.84%	0.445%
67	6.527	6.508	6.572	HH	2451	76509	40.12%	0.719%
68	6.576	6.572	6.591	HH	1561	16313	8.55%	0.153%
69	6.613	6.591	6.661	HH	3524	87610	45.94%	0.823%
70	6.706	6.661	6.720	HH	1994	57162	29.97%	0.537%
71	6.734	6.720	6.748	HH	2639	36622	19.20%	0.344%
72	6.767	6.748	6.786	HH	8300	109335	57.33%	1.027%
73	6.799	6.786	6.826	HH	2889	55749	29.23%	0.524%
74	6.839	6.826	6.852	HH	2603	32640	17.11%	0.307%
75	6.861	6.852	6.879	HH	1936	27784	14.57%	0.261%
76	6.894	6.879	6.915	HH	3271	51816	27.17%	0.487%
77	6.935	6.915	6.965	HH	3969	78777	41.30%	0.740%
78	6.971	6.965	6.988	HH	1934	23484	12.31%	0.221%
79	7.010	6.988	7.052	HH	3732	84115	44.10%	0.790%
80	7.082	7.052	7.099	HH	2250	55147	28.91%	0.518%
81	7.107	7.099	7.111	HH	2121	14962	7.85%	0.141%
82	7.141	7.111	7.163	HH	3964	92396	48.45%	0.868%
83	7.184	7.163	7.212	HH	4290	83749	43.91%	0.787%
84	7.243	7.212	7.276	HH	4081	111463	58.44%	1.047%
85	7.290	7.276	7.309	HH	2956	42499	22.28%	0.399%
86	7.332	7.309	7.360	HH	10152	150029	78.66%	1.409%
87	7.379	7.360	7.410	HH	5337	109736	57.54%	1.031%
88	7.430	7.410	7.449	HH	3607	61775	32.39%	0.580%
89	7.456	7.449	7.468	HH	2342	24518	12.86%	0.230%

rteres

90	7.477	7.468	7.491	HH	2170	29012	15.21%	0.273%
91	7.529	7.491	7.542	HH	2981	77598	40.69%	0.729%
92	7.558	7.542	7.580	HH	4854	75493	39.58%	0.709%
93	7.608	7.580	7.629	HH	2861	70441	36.93%	0.662%
94	7.646	7.629	7.659	HH	2490	42473	22.27%	0.399%
95	7.666	7.659	7.672	HH	2449	19122	10.03%	0.180%
96	7.685	7.672	7.708	HH	2861	54803	28.73%	0.515%
97	7.732	7.708	7.760	HH	5366	105506	55.32%	0.991%
98	7.777	7.760	7.803	HH	2836	54398	28.52%	0.511%
99	7.822	7.803	7.831	HH	2480	36150	18.95%	0.340%
100	7.837	7.831	7.856	HH	2459	31649	16.59%	0.297%
101	7.895	7.856	7.912	HH	4040	93384	48.96%	0.877%
102	7.925	7.912	7.958	HH	2852	59836	31.37%	0.562%
103	7.987	7.958	8.002	HH	3252	60738	31.85%	0.571%
104	8.021	8.002	8.033	HH	3385	52854	27.71%	0.497%
105	8.042	8.033	8.062	HH	2993	44020	23.08%	0.414%
106	8.086	8.062	8.106	HH	3095	65091	34.13%	0.612%
107	8.134	8.106	8.151	HH	3501	77927	40.86%	0.732%
108	8.163	8.151	8.177	HH	3677	50552	26.51%	0.475%
109	8.187	8.177	8.213	HH	3221	53871	28.25%	0.506%
110	8.258	8.213	8.286	HH	10267	190722	100.00%	1.792%
111	8.305	8.286	8.329	HH	3201	68391	35.86%	0.643%
112	8.353	8.329	8.370	HH	5276	92386	48.44%	0.868%
113	8.385	8.370	8.419	HH	3985	99935	52.40%	0.939%
114	8.438	8.419	8.459	HH	4667	84741	44.43%	0.796%
115	8.488	8.459	8.513	HH	3665	99745	52.30%	0.937%
116	8.532	8.513	8.548	HH	3731	65686	34.44%	0.617%
117	8.556	8.548	8.569	HH	2869	35197	18.45%	0.331%
118	8.588	8.569	8.610	HH	6742	102330	53.65%	0.961%
119	8.646	8.610	8.665	HH	2982	89294	46.82%	0.839%
120	8.683	8.665	8.703	HH	2860	56362	29.55%	0.529%
121	8.728	8.703	8.753	HH	2590	68784	36.06%	0.646%
122	8.769	8.753	8.777	HH	2197	29659	15.55%	0.279%
123	8.794	8.777	8.807	HH	3540	52055	27.29%	0.489%
124	8.818	8.807	8.840	HH	3160	56592	29.67%	0.532%
125	8.859	8.840	8.869	HH	2909	47340	24.82%	0.445%
126	8.888	8.869	8.912	HH	5091	89241	46.79%	0.838%
127	8.952	8.912	8.961	HH	3671	86214	45.20%	0.810%
128	8.979	8.961	9.010	HH	9060	143415	75.20%	1.347%
129	9.029	9.010	9.039	HH	2544	41962	22.00%	0.394%
130	9.054	9.039	9.069	HH	2980	45280	23.74%	0.425%
131	9.088	9.069	9.102	HH	2864	50411	26.43%	0.474%
132	9.122	9.102	9.140	HH	3217	62097	32.56%	0.583%
133	9.156	9.140	9.185	HH	2906	70637	37.04%	0.664%
134	9.205	9.185	9.236	HH	3035	84167	44.13%	0.791%
135	9.264	9.236	9.277	HH	3490	77782	40.78%	0.731%
136	9.292	9.277	9.328	HH	3715	85068	44.60%	0.799%
137	9.348	9.328	9.370	HH	2948	60512	31.73%	0.568%
138	9.407	9.370	9.430	HH	3172	84015	44.05%	0.789%
139	9.441	9.430	9.445	HH	2042	17401	9.12%	0.163%
140	9.464	9.445	9.478	HH	2424	42365	22.21%	0.398%
141	9.499	9.478	9.515	HH	2215	45362	23.78%	0.426%

rteres

142	9.543	9.515	9.583	HH	2976	98123	51.45%	0.922%
143	9.592	9.583	9.608	HH	1970	28159	14.76%	0.265%
144	9.641	9.608	9.675	HH	3706	104313	54.69%	0.980%
145	9.716	9.675	9.761	HH	3455	124703	65.38%	1.172%
146	9.801	9.761	9.854	HH	2744	118082	61.91%	1.109%
147	9.858	9.854	9.862	HH	1729	8579	4.50%	0.081%
148	9.869	9.862	9.904	HH	1788	41702	21.87%	0.392%
149	9.959	9.904	9.975	HH	2113	76573	40.15%	0.719%
150	9.998	9.975	10.026	HH	2823	68438	35.88%	0.643%
151	10.045	10.026	10.087	HH	2713	76764	40.25%	0.721%
152	10.103	10.087	10.111	HH	1842	25775	13.51%	0.242%
153	10.118	10.111	10.134	HH	1853	24700	12.95%	0.232%
154	10.148	10.134	10.186	HH	1990	50246	26.35%	0.472%
155	10.214	10.186	10.239	HH	1746	48757	25.56%	0.458%
156	10.253	10.239	10.264	HH	1466	21224	11.13%	0.199%
157	10.276	10.264	10.296	HH	1491	26170	13.72%	0.246%
158	10.320	10.296	10.347	HH	1424	38412	20.14%	0.361%
159	10.372	10.347	10.401	HH	1622	45281	23.74%	0.425%
160	10.432	10.401	10.464	HH	4538	94755	49.68%	0.890%
161	10.476	10.464	10.495	HH	1804	31289	16.41%	0.294%
162	10.508	10.495	10.533	HH	1805	38075	19.96%	0.358%
163	10.551	10.533	10.568	HH	1692	32617	17.10%	0.306%
164	10.575	10.568	10.597	HH	1736	26248	13.76%	0.247%
165	10.624	10.597	10.660	HH	1619	51962	27.24%	0.488%
166	10.682	10.660	10.696	HH	1673	31441	16.49%	0.295%
167	10.717	10.696	10.738	HH	1738	35836	18.79%	0.337%
168	10.763	10.738	10.776	HH	1693	33784	17.71%	0.317%
169	10.793	10.776	10.822	HH	1695	40871	21.43%	0.384%
170	10.855	10.822	10.900	HH	5536	124512	65.28%	1.170%
171	10.902	10.900	10.948	HH	1558	34039	17.85%	0.320%
172	10.974	10.948	10.979	HH	1323	21915	11.49%	0.206%
173	10.985	10.979	11.003	HH	1334	18085	9.48%	0.170%
174	11.007	11.003	11.024	HH	1256	14668	7.69%	0.138%
175	11.044	11.024	11.080	HH	1482	42617	22.34%	0.400%
176	11.120	11.080	11.141	HH	1371	42077	22.06%	0.395%
177	11.175	11.141	11.209	HH	1575	48718	25.54%	0.458%
178	11.211	11.209	11.219	HH	1010	6075	3.19%	0.057%
179	11.262	11.219	11.284	HH	1172	40159	21.06%	0.377%
180	11.293	11.284	11.297	HH	1035	7813	4.10%	0.073%
181	11.309	11.297	11.327	HH	1150	19263	10.10%	0.181%
182	11.339	11.327	11.368	HH	1283	27898	14.63%	0.262%
183	11.380	11.368	11.389	HH	1211	14281	7.49%	0.134%
184	11.402	11.389	11.411	HH	1221	15348	8.05%	0.144%
185	11.433	11.411	11.463	HH	1348	38327	20.10%	0.360%
186	11.479	11.463	11.501	HH	1379	29396	15.41%	0.276%
187	11.510	11.501	11.541	HH	1360	29164	15.29%	0.274%
188	11.576	11.541	11.611	HH	3207	75414	39.54%	0.708%
189	11.616	11.611	11.632	HH	1108	13199	6.92%	0.124%
190	11.638	11.632	11.655	HH	1152	14223	7.46%	0.134%
191	11.659	11.655	11.668	HH	926	6736	3.53%	0.063%
192	11.687	11.668	11.712	HH	1196	27657	14.50%	0.260%
193	11.751	11.712	11.760	HH	1068	29521	15.48%	0.277%
194	11.766	11.760	11.776	HH	1142	10185	5.34%	0.096%

195	11.782	11.776	11.811	HH	1107	21114	11.07%	0.198%
196	11.816	11.811	11.829	HH	944	9577	5.02%	0.090%
197	11.853	11.829	11.864	HH	1225	22453	11.77%	0.211%
198	11.873	11.864	11.912	HH	1161	30890	16.20%	0.290%
199	11.931	11.912	11.949	HH	1051	21609	11.33%	0.203%
200	11.965	11.949	12.003	HH	1476	39385	20.65%	0.370%
201	12.016	12.003	12.020	HH	1141	11351	5.95%	0.107%
202	12.030	12.020	12.035	HH	1118	9692	5.08%	0.091%
203	12.043	12.035	12.069	HH	1129	19612	10.28%	0.184%
204	12.091	12.069	12.106	HH	1020	20491	10.74%	0.193%
205	12.135	12.106	12.160	HH	1483	37728	19.78%	0.354%
206	12.174	12.160	12.187	HH	1072	15842	8.31%	0.149%
207	12.196	12.187	12.221	HH	1017	18819	9.87%	0.177%
208	12.232	12.221	12.248	HH	937	13718	7.19%	0.129%
209	12.253	12.248	12.261	HH	910	6843	3.59%	0.064%
210	12.274	12.261	12.299	HH	951	20288	10.64%	0.191%
211	12.302	12.299	12.307	HH	846	3670	1.92%	0.034%
212	12.311	12.307	12.329	HH	810	10062	5.28%	0.095%
213	12.351	12.329	12.355	HH	861	11794	6.18%	0.111%
214	12.365	12.355	12.389	HH	880	16614	8.71%	0.156%
215	12.401	12.389	12.405	HH	870	7576	3.97%	0.071%
216	12.428	12.405	12.447	HH	1153	25020	13.12%	0.235%
217	12.450	12.447	12.479	HH	1111	18003	9.44%	0.169%
218	12.483	12.479	12.494	HH	960	7979	4.18%	0.075%
219	12.508	12.494	12.559	HH	1005	32749	17.17%	0.308%
220	12.585	12.559	12.608	HH	955	23322	12.23%	0.219%
221	12.629	12.608	12.635	HH	828	12246	6.42%	0.115%
222	12.640	12.635	12.649	HH	834	6812	3.57%	0.064%
223	12.657	12.649	12.690	HH	855	18438	9.67%	0.173%
224	12.736	12.690	12.767	HH	1200	40422	21.19%	0.380%
225	12.773	12.767	12.787	HH	868	9742	5.11%	0.092%
226	12.796	12.787	12.832	HH	954	20929	10.97%	0.197%
227	12.836	12.832	12.846	HH	642	5294	2.78%	0.050%
228	12.855	12.846	12.882	HH	758	14483	7.59%	0.136%
229	12.888	12.882	12.899	HH	635	5713	3.00%	0.054%
230	12.902	12.899	12.919	HH	615	6664	3.49%	0.063%
231	12.925	12.919	12.930	HH	587	3685	1.93%	0.035%
232	12.936	12.930	12.959	HH	610	9196	4.82%	0.086%
233	12.974	12.959	13.004	HH	528	12271	6.43%	0.115%
234	13.014	13.004	13.030	HH	439	6289	3.30%	0.059%
235	13.046	13.030	13.050	HH	471	4946	2.59%	0.046%
236	13.065	13.050	13.088	HH	466	9036	4.74%	0.085%
237	13.104	13.088	13.121	HH	408	7076	3.71%	0.066%
238	13.125	13.121	13.133	HH	419	2486	1.30%	0.023%
239	13.155	13.133	13.192	HH	671	17142	8.99%	0.161%
240	13.196	13.192	13.202	HH	434	2410	1.26%	0.023%
241	13.210	13.202	13.215	HH	425	2995	1.57%	0.028%
242	13.220	13.215	13.231	HH	451	3922	2.06%	0.037%
243	13.234	13.231	13.249	HH	424	4264	2.24%	0.040%
244	13.269	13.249	13.273	HH	476	5735	3.01%	0.054%
245	13.293	13.273	13.329	HH	580	15726	8.25%	0.148%
246	13.334	13.329	13.347	HH	446	4246	2.23%	0.040%

rteres

247	13.352	13.347	13.358	HH	389	2300	1.21%	0.022%
248	13.362	13.358	13.378	HH	387	3798	1.99%	0.036%
249	13.385	13.378	13.389	HH	268	1725	0.90%	0.016%
250	13.440	13.389	13.460	HH	547	17633	9.25%	0.166%
251	13.483	13.460	13.510	HH	584	12965	6.80%	0.122%
252	13.515	13.510	13.528	HH	376	3677	1.93%	0.035%
253	13.550	13.528	13.558	HH	443	6825	3.58%	0.064%
254	13.581	13.558	13.589	HH	474	7827	4.10%	0.074%
255	13.593	13.589	13.608	HH	411	4030	2.11%	0.038%
256	13.613	13.608	13.617	HH	346	1779	0.93%	0.017%
257	13.625	13.617	13.629	HH	351	2255	1.18%	0.021%
258	13.638	13.629	13.642	HH	363	2506	1.31%	0.024%
259	13.663	13.642	13.669	HH	482	6300	3.30%	0.059%
260	13.678	13.669	13.686	HH	487	4328	2.27%	0.041%
261	13.697	13.686	13.721	HH	496	8480	4.45%	0.080%
262	13.725	13.721	13.730	HH	380	1995	1.05%	0.019%
263	13.733	13.730	13.744	HH	417	2778	1.46%	0.026%
264	13.747	13.744	13.769	HH	388	4669	2.45%	0.044%
265	13.770	13.769	13.777	HH	328	1459	0.76%	0.014%
266	13.819	13.777	13.843	HH	534	15202	7.97%	0.143%
267	13.857	13.843	13.879	HH	424	7410	3.89%	0.070%
268	13.905	13.879	13.916	HH	450	7601	3.99%	0.071%
269	13.920	13.916	13.961	HH	378	7841	4.11%	0.074%
270	13.964	13.961	13.969	HH	310	1061	0.56%	0.010%
271	13.996	13.969	14.004	HH	371	6359	3.33%	0.060%
272	14.013	14.004	14.045	HH	470	8456	4.43%	0.079%
273	14.057	14.045	14.079	HH	353	5968	3.13%	0.056%
274	14.089	14.079	14.138	HH	287	8012	4.20%	0.075%
275	14.146	14.138	14.164	HH	247	2540	1.33%	0.024%
276	14.197	14.164	14.210	HH	252	5275	2.77%	0.050%
277	14.218	14.210	14.260	HH	287	6500	3.41%	0.061%
278	14.272	14.260	14.282	HH	215	1929	1.01%	0.018%
279	14.305	14.282	14.323	HH	211	3568	1.87%	0.034%
280	14.336	14.323	14.340	HH	248	1796	0.94%	0.017%
281	14.357	14.340	14.378	HH	305	5101	2.67%	0.048%
282	14.381	14.378	14.385	HH	272	1022	0.54%	0.010%
283	14.398	14.385	14.404	HH	265	2342	1.23%	0.022%
284	14.409	14.404	14.418	HH	204	1684	0.88%	0.016%
285	14.422	14.418	14.434	HH	212	1688	0.89%	0.016%
286	14.441	14.434	14.448	HH	243	1744	0.91%	0.016%
287	14.462	14.448	14.470	HH	265	2834	1.49%	0.027%
288	14.493	14.470	14.521	HH	276	5983	3.14%	0.056%
289	14.524	14.521	14.529	HH	174	668	0.35%	0.006%
290	14.560	14.529	14.582	HH	246	6475	3.39%	0.061%
291	14.603	14.582	14.612	HH	220	3162	1.66%	0.030%
292	14.627	14.612	14.633	HH	227	2413	1.27%	0.023%
293	14.640	14.633	14.644	HH	224	1262	0.66%	0.012%
294	14.649	14.644	14.667	HH	211	2479	1.30%	0.023%
295	14.682	14.667	14.691	HH	329	3486	1.83%	0.033%
296	14.700	14.691	14.707	HH	298	2561	1.34%	0.024%
297	14.717	14.707	14.748	HH	423	7527	3.95%	0.071%
298	14.751	14.748	14.792	HH	242	4928	2.58%	0.046%
299	14.798	14.792	14.811	HH	220	1986	1.04%	0.019%

rteres

300	14.815	14.811	14.828	HH	230	1775	0.93%	0.017%
301	14.843	14.828	14.848	HH	285	2838	1.49%	0.027%
302	14.893	14.848	14.927	HH	2171	40412	21.19%	0.380%
303	14.933	14.927	14.976	HH	421	9990	5.24%	0.094%
304	14.989	14.976	15.024	HH	268	6227	3.27%	0.059%
305	15.063	15.024	15.077	HH	330	7733	4.05%	0.073%
306	15.083	15.077	15.087	HH	350	1885	0.99%	0.018%
307	15.096	15.087	15.129	HH	399	7831	4.11%	0.074%
308	15.139	15.129	15.164	HH	241	4766	2.50%	0.045%
309	15.171	15.164	15.184	HH	281	3342	1.75%	0.031%
310	15.189	15.184	15.199	HH	315	2384	1.25%	0.022%
311	15.209	15.199	15.249	HH	301	7538	3.95%	0.071%
312	15.255	15.249	15.271	HH	273	3449	1.81%	0.032%
313	15.281	15.271	15.288	HH	380	3161	1.66%	0.030%
314	15.292	15.288	15.306	HH	295	2739	1.44%	0.026%
315	15.309	15.306	15.348	HH	309	6452	3.38%	0.061%
316	15.353	15.348	15.360	HH	265	1699	0.89%	0.016%
317	15.374	15.360	15.381	HH	276	2785	1.46%	0.026%
318	15.387	15.381	15.397	HH	228	2107	1.10%	0.020%
319	15.400	15.397	15.403	HH	247	741	0.39%	0.007%
320	15.429	15.403	15.451	HH	266	6399	3.35%	0.060%
321	15.477	15.451	15.500	HH	612	12555	6.58%	0.118%
322	15.507	15.500	15.574	HH	505	17856	9.36%	0.168%
323	15.576	15.574	15.587	HH	338	2310	1.21%	0.022%
324	15.616	15.587	15.666	HH	448	16847	8.83%	0.158%
325	15.680	15.666	15.701	HH	506	8154	4.28%	0.077%
326	15.710	15.701	15.727	HH	374	5021	2.63%	0.047%
327	15.732	15.727	15.757	HH	385	6043	3.17%	0.057%
328	15.766	15.757	15.789	HH	348	5899	3.09%	0.055%
329	15.794	15.789	15.814	HH	365	4854	2.55%	0.046%
330	15.824	15.814	15.829	HH	355	3042	1.59%	0.029%
331	15.835	15.829	15.842	HH	366	2758	1.45%	0.026%
332	15.847	15.842	15.856	HH	421	2838	1.49%	0.027%
333	15.873	15.856	15.889	HH	425	7341	3.85%	0.069%
334	15.922	15.889	15.969	HH	492	18842	9.88%	0.177%
335	15.975	15.969	15.981	HH	401	2578	1.35%	0.024%
336	16.000	15.981	16.006	HH	438	5685	2.98%	0.053%
337	16.009	16.006	16.014	HH	373	1800	0.94%	0.017%
338	16.016	16.014	16.019	HH	406	1032	0.54%	0.010%
339	16.026	16.019	16.036	HH	437	3862	2.03%	0.036%
340	16.053	16.036	16.092	HH	497	14306	7.50%	0.134%
341	16.122	16.092	16.146	HH	594	15179	7.96%	0.143%
342	16.151	16.146	16.163	HH	449	4229	2.22%	0.040%
343	16.184	16.163	16.189	HH	476	6798	3.56%	0.064%
344	16.195	16.189	16.221	HH	495	8483	4.45%	0.080%
345	16.226	16.221	16.231	HH	444	2691	1.41%	0.025%
346	16.246	16.231	16.251	HH	506	5324	2.79%	0.050%
347	16.261	16.251	16.282	HH	546	9599	5.03%	0.090%
348	16.306	16.282	16.330	HH	602	15074	7.90%	0.142%
349	16.341	16.330	16.349	HH	537	5411	2.84%	0.051%
350	16.354	16.349	16.359	HH	512	2926	1.53%	0.027%
351	16.401	16.359	16.406	HH	590	14871	7.80%	0.140%

rteres

352	16.460	16.406	16.529	HH	667	43789	22.96%	0.411%
353	16.602	16.529	16.631	HH	933	44537	23.35%	0.418%
354	16.651	16.631	16.666	HH	917	17139	8.99%	0.161%
355	16.679	16.666	16.706	HH	1021	20684	10.85%	0.194%
356	16.744	16.706	16.766	HH	896	29679	15.56%	0.279%
357	16.808	16.766	16.837	HH	962	37837	19.84%	0.355%
358	16.868	16.837	16.882	HH	969	24512	12.85%	0.230%
359	16.900	16.882	16.911	HH	984	16082	8.43%	0.151%
360	16.965	16.911	16.996	HH	1140	53560	28.08%	0.503%
361	17.030	16.996	17.044	HH	1202	32941	17.27%	0.309%
362	17.068	17.044	17.089	HH	1538	36241	19.00%	0.340%
363	17.110	17.089	17.137	HH	1353	36556	19.17%	0.343%
364	17.147	17.137	17.181	HH	1313	32768	17.18%	0.308%

Sum of corrected areas: 10644430

FF091124.M Fri Sep 20 03:47:35 2024

CALIBRATION SUMMARY

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: ENTA05

ProjectID: North Point

Lab Code: CHEM Case No.: P4103 SAS No.: P4103 SDG No.: P4103

Calibration Sequence : FF091124		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
500	63216053	126432	FF014481.D
200	24873045	124365	FF014482.D
100	12144149	121441	FF014483.D
50	5328640	106573	FF014484.D
1000	108851924	108852	FF014485.D
AVG RF : 117533	**% RSD : 7.805**		**AVG RT : 14.8996**

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05

ProjectID: North Point

Lab Code: CHEM Case No.: P4103 SAS No.: P4103 SDG No.: P4103

DataFile: FF014537.D Analyst Name: YP\AJ Analyst Date: 09-19-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	53709752	107420	117533	8.604

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014537.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 18:00
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 20 02:27:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	14.896	4806707	44.792 ug/ml
	Target Compounds			
2)	N-DECANE	4.448	5266134	46.145 ug/ml
3)	N-DODECANE	6.615	5339755	47.131 ug/ml
4)	N-TETRADECANE	8.441	5349008	46.880 ug/ml
5)	N-HEXADECANE	10.047	5359339	46.550 ug/ml
6)	N-OCTADECANE	11.490	5521377	45.529 ug/ml
7)	N-EICOSANE	12.798	5607457	45.251 ug/ml
8)	N-DOCOSANE	13.997	5424820	44.926 ug/ml
10)	N-TETRACOSANE	15.100	5374302	44.812 ug/ml
11)	N-HEXACOSANE	16.120	5285114	44.922 ug/ml
12)	N-OCTACOSANE	17.069	5182446	45.003 ug/ml

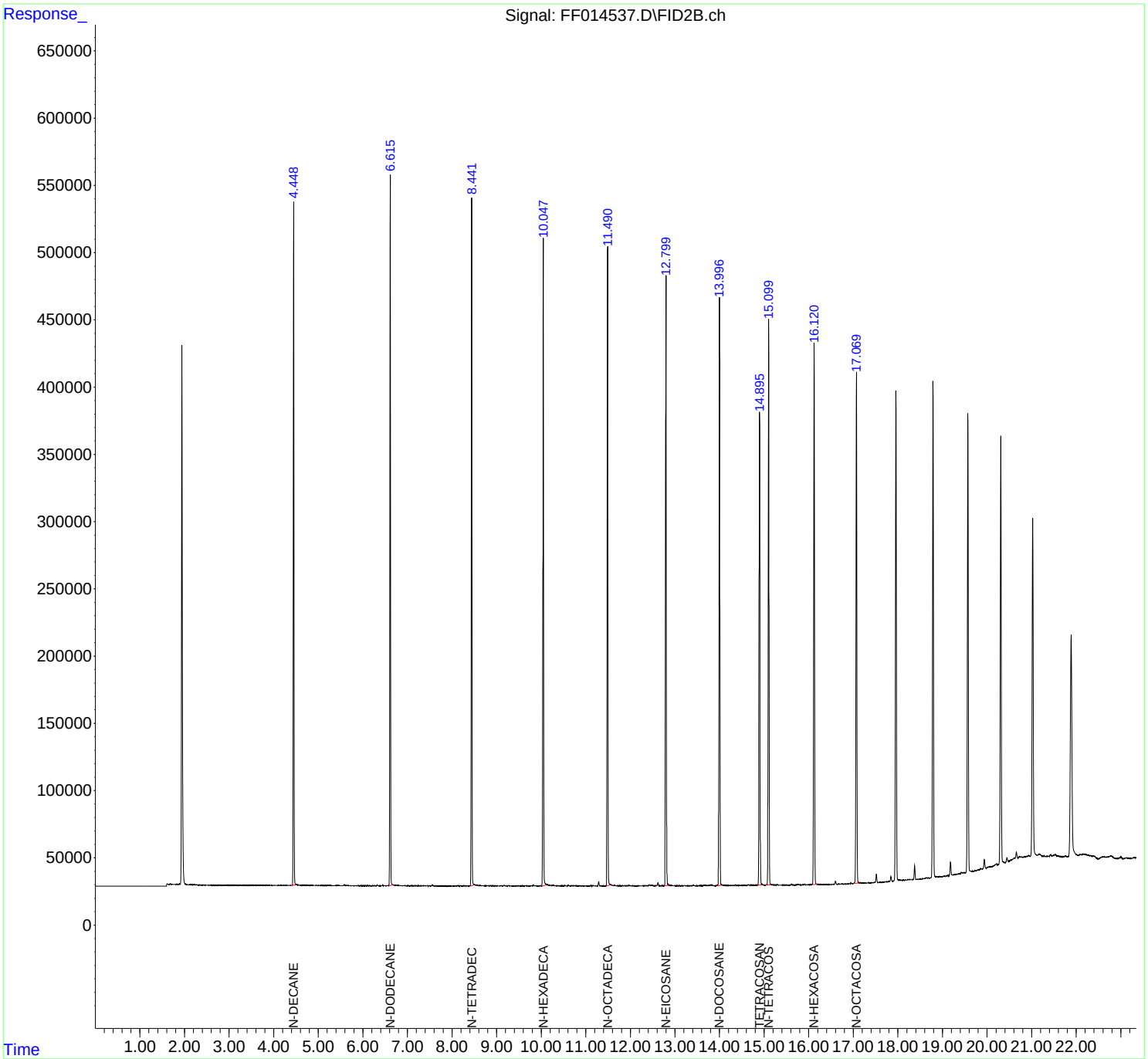
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014537.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 18:00
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 20 02:27:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014537.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 18:00
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.448	4.407	4.504	BB	508406	5266134	93.91%	8.999%
2	6.615	6.583	6.675	BB	528125	5339755	95.23%	9.125%
3	8.441	8.406	8.504	BB	510719	5349008	95.39%	9.141%
4	10.048	10.009	10.124	BB	481955	5359339	95.58%	9.159%
5	11.490	11.451	11.561	BB	475422	5521377	98.46%	9.436%
6	12.798	12.755	12.865	BB	453248	5607457	100.00%	9.583%
7	13.997	13.950	14.062	BB	436888	5424820	96.74%	9.271%
8	14.896	14.843	14.966	BB	351625	4806707	85.72%	8.214%
9	15.100	15.051	15.162	BB	420747	5374302	95.84%	9.184%
10	16.120	16.068	16.183	BB	401484	5285114	94.25%	9.032%
11	17.069	16.998	17.132	BB	379996	5182446	92.42%	8.856%

Sum of corrected areas: 58516459

FF091124.M Fri Sep 20 03:23:05 2024

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05

ProjectID: North Point

Lab Code: CHEM Case No.: P4103 SAS No.: P4103 SDG No.: P4103

DataFile: FF014550.D Analyst Name: YP\AJ Analyst Date: 09-20-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	57807722	115615	117533	1.632

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014550.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 01:49
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 20 03:15:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	14.895	5196477	48.424 ug/ml
	Target Compounds			
2)	N-DECANE	4.447	5592993	49.009 ug/ml
3)	N-DODECANE	6.615	5700585	50.316 ug/ml
4)	N-TETRADECANE	8.440	5748626	50.382 ug/ml
5)	N-HEXADECANE	10.047	5765286	50.076 ug/ml
6)	N-OCTADECANE	11.489	5950090	49.064 ug/ml
7)	N-EICOSANE	12.798	6050813	48.829 ug/ml
8)	N-DOCOSANE	13.996	5855257	48.491 ug/ml
10)	N-TETRACOSANE	15.098	5810045	48.445 ug/ml
11)	N-HEXACOSANE	16.119	5718700	48.607 ug/ml
12)	N-OCTACOSANE	17.068	5615327	48.763 ug/ml

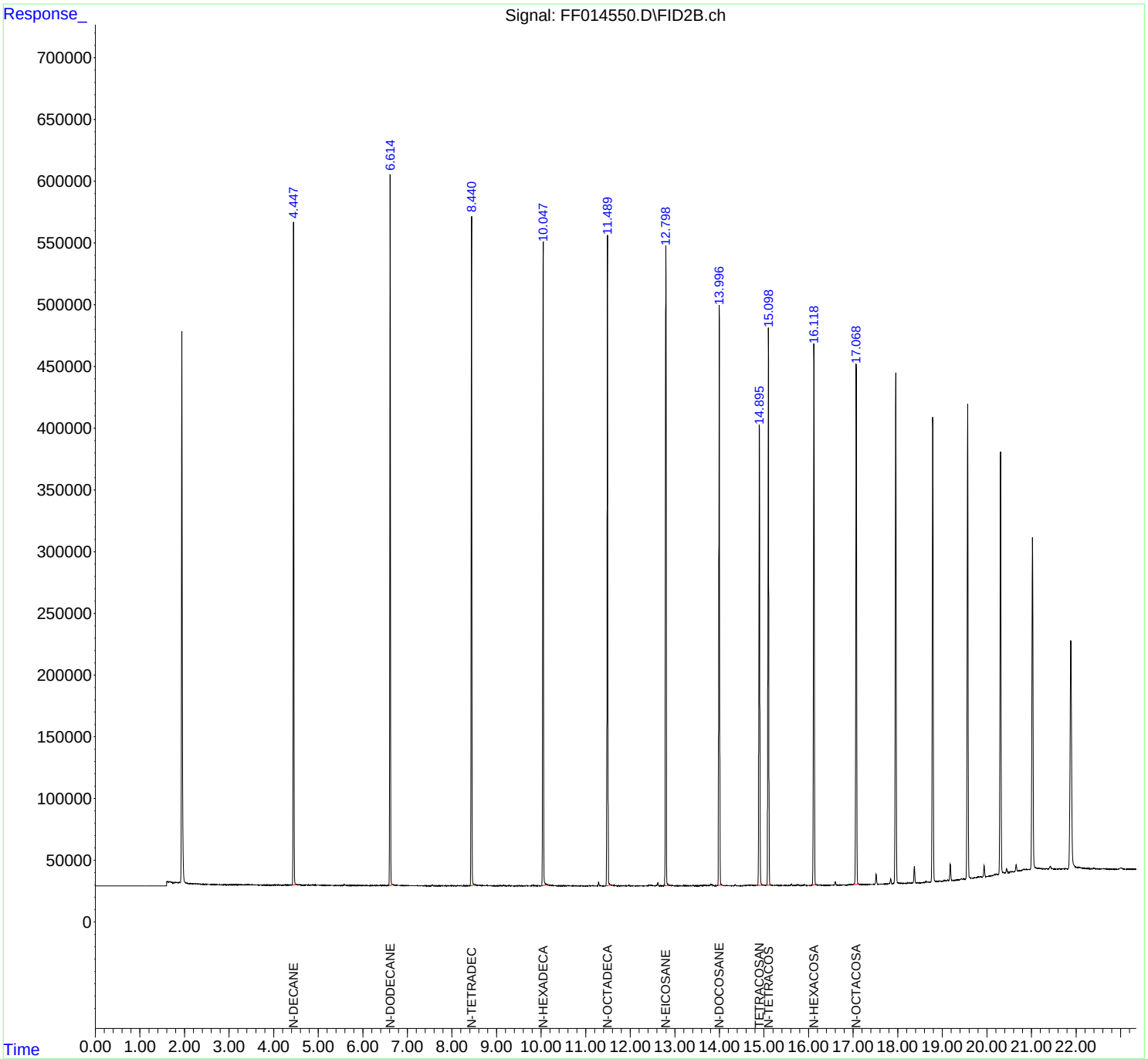
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014550.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 01:49
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 20 03:15:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014550.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 01:49
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.447	4.408	4.518	BB	536549	5592993	92.43%	8.877%
2	6.615	6.578	6.678	BB	575824	5700585	94.21%	9.048%
3	8.440	8.403	8.510	BB	541544	5748626	95.01%	9.124%
4	10.047	10.011	10.127	BB	520535	5765286	95.28%	9.151%
5	11.489	11.453	11.563	BB	526353	5950090	98.34%	9.444%
6	12.798	12.756	12.867	BB	518868	6050813	100.00%	9.604%
7	13.996	13.943	14.063	BB	469606	5855257	96.77%	9.293%
8	14.895	14.842	14.962	BB	373199	5196477	85.88%	8.248%
9	15.098	15.046	15.163	BB	451905	5810045	96.02%	9.222%
10	16.119	16.063	16.179	BB	437616	5718700	94.51%	9.077%
11	17.068	16.998	17.126	BB	420875	5615327	92.80%	8.913%

Sum of corrected areas: 63004198

FF091124.M Fri Sep 20 03:22:22 2024

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05

ProjectID: North Point

Lab Code: CHEM Case No.: P4103 SAS No.: P4103 SDG No.: P4103

DataFile: FF014553.D Analyst Name: YP\AJ Analyst Date: 09-20-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	57372260	114745	117533	2.372

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014553.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 07:58
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 20 09:56:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	14.894	5105990	47.581 ug/ml
	Target Compounds			
2)	N-DECANE	4.446	5668199	49.668 ug/ml
3)	N-DODECANE	6.613	5743105	50.691 ug/ml
4)	N-TETRADECANE	8.440	5748682	50.382 ug/ml
5)	N-HEXADECANE	10.046	5745638	49.905 ug/ml
6)	N-OCTADECANE	11.488	5910145	48.735 ug/ml
7)	N-EICOSANE	12.798	5980183	48.259 ug/ml
8)	N-DOCOSANE	13.995	5767004	47.760 ug/ml
10)	N-TETRACOSANE	15.097	5700459	47.532 ug/ml
11)	N-HEXACOSANE	16.118	5600914	47.606 ug/ml
12)	N-OCTACOSANE	17.067	5507931	47.830 ug/ml

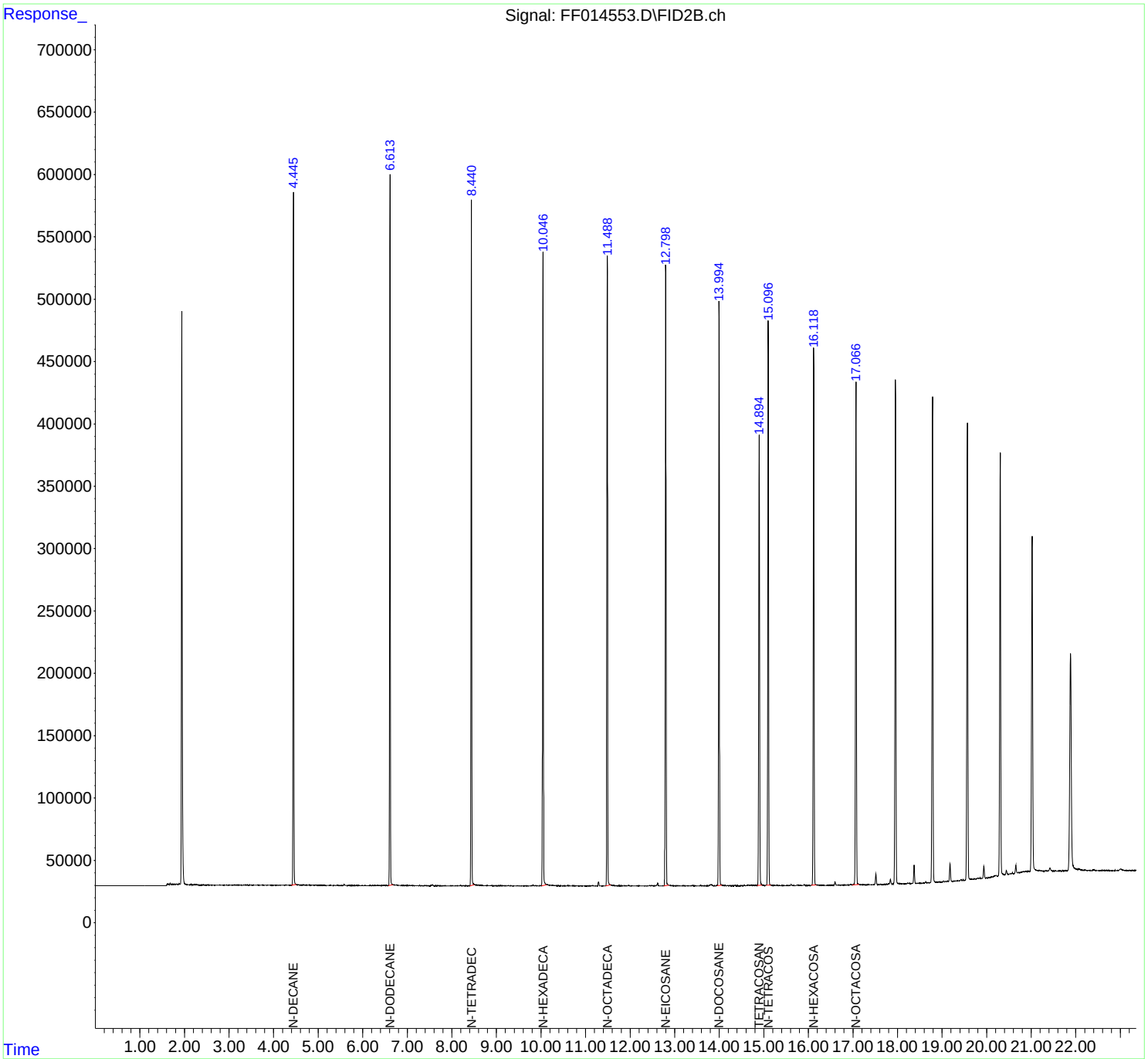
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014553.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 07:58
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 20 09:56:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014553.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 07:58
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	4.446	4.403	4.511	BB	555268	5668199	94.78%	9.072%
2	6.613	6.578	6.680	BB	570514	5743105	96.04%	9.192%
3	8.440	8.405	8.505	BB	549581	5748682	96.13%	9.201%
4	10.046	10.011	10.130	BB	507362	5745638	96.08%	9.196%
5	11.488	11.447	11.564	BB	505184	5910145	98.83%	9.460%
6	12.798	12.759	12.866	BB	498173	5980183	100.00%	9.572%
7	13.995	13.955	14.059	BB	468101	5767004	96.44%	9.230%
8	14.894	14.844	14.961	BB	361278	5105990	85.38%	8.172%
9	15.097	15.057	15.155	BB	452227	5700459	95.32%	9.124%
10	16.118	16.064	16.176	BB	430373	5600914	93.66%	8.965%

11 17.067 16.994 17.135 BB 403049 5507931 92.10% 8.816%
Sum of corrected areas: 62478250

FF091124.M Fri Sep 20 10:02:19 2024

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05

ProjectID: North Point

Lab Code: CHEM Case No.: P4103 SAS No.: P4103 SDG No.: P4103

DataFile: FF014557.D Analyst Name: YP\AJ Analyst Date: 09-20-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	58373910	116748	117533	0.668

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014557.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 10:09
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 21 00:29:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	14.894	5184948	48.317 ug/ml
	Target Compounds			
2)	N-DECANE	4.447	5790456	50.739 ug/ml
3)	N-DODECANE	6.615	5866678	51.782 ug/ml
4)	N-TETRADECANE	8.440	5868122	51.429 ug/ml
5)	N-HEXADECANE	10.046	5875171	51.030 ug/ml
6)	N-OCTADECANE	11.489	6044949	49.847 ug/ml
7)	N-EICOSANE	12.798	6094236	49.179 ug/ml
8)	N-DOCOSANE	13.994	5862248	48.549 ug/ml
10)	N-TETRACOSANE	15.098	5781485	48.207 ug/ml
11)	N-HEXACOSANE	16.118	5652312	48.043 ug/ml
12)	N-OCTACOSANE	17.067	5538253	48.093 ug/ml

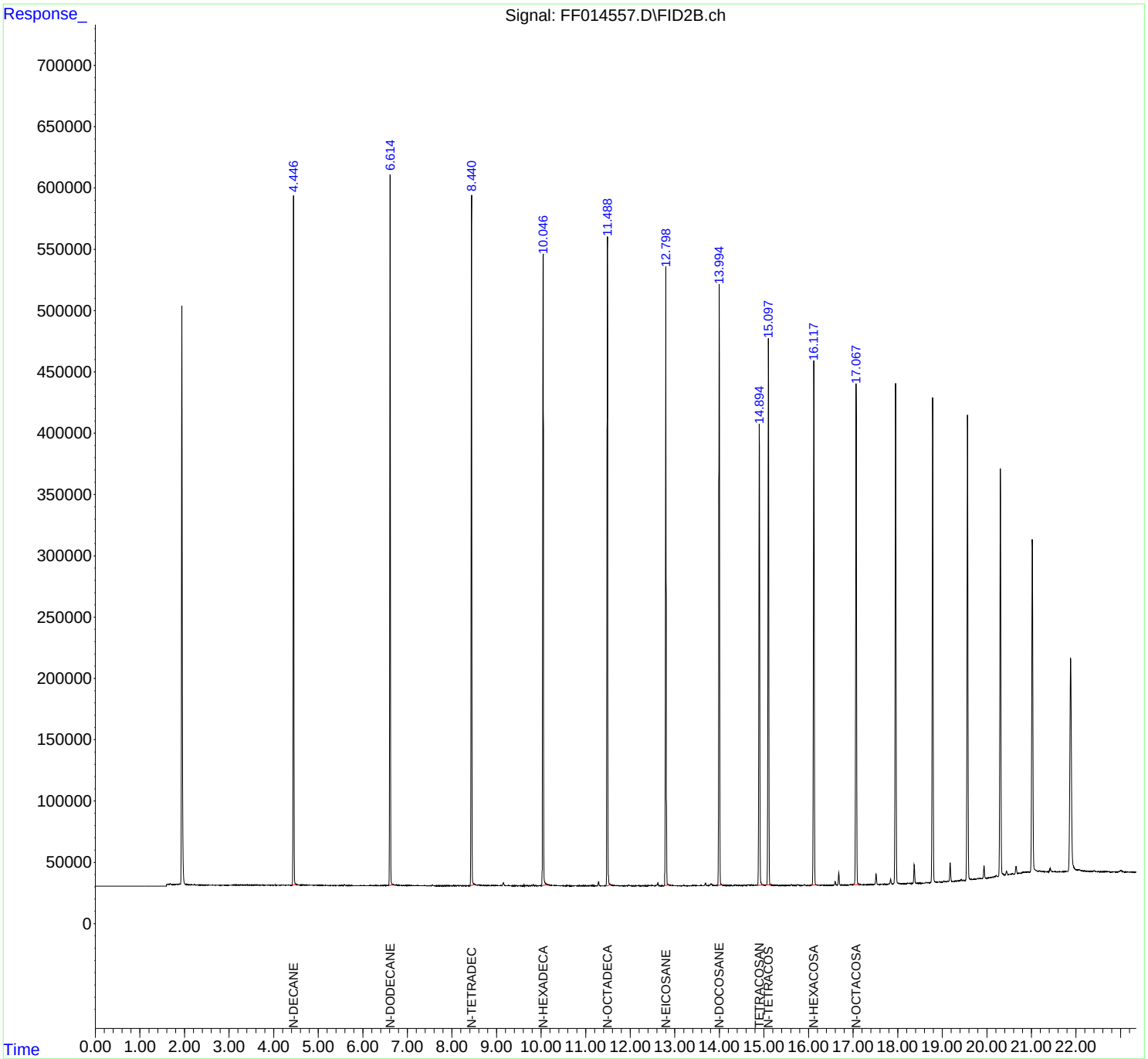
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014557.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 10:09
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Sep 21 00:29:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014557.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 10:09
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	4.447	4.404	4.508	BB	562141	5790456	95.02%	9.110%
2	6.615	6.573	6.681	BB	578824	5866678	96.27%	9.230%
3	8.440	8.403	8.509	BB	562759	5868122	96.29%	9.233%
4	10.046	10.010	10.131	BB	514628	5875171	96.41%	9.244%
5	11.489	11.446	11.562	BB	529337	6044949	99.19%	9.511%
6	12.798	12.755	12.863	BB	504399	6094236	100.00%	9.588%
7	13.994	13.943	14.060	BB	489188	5862248	96.19%	9.223%
8	14.894	14.842	14.963	BB	376152	5184948	85.08%	8.158%
9	15.098	15.048	15.158	BB	445387	5781485	94.87%	9.096%
10	16.118	16.063	16.178	BB	424519	5652312	92.75%	8.893%

11 17.067 16.997 17.135 BB 408230 5538253 90.88% 8.714%
Sum of corrected areas: 63558856

FF091124.M Sat Sep 21 01:02:04 2024

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

Analytical Sequence

Client: ENTACT **SDG No.:** P4103

Project: North Point **Instrument ID:** FID_F

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 **14.8996**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	19 Sep 2024 17:02	FF014536.D	14.894	
50 PPM TRPH STD	50 PPM TRPH STD	19 Sep 2024 18:00	FF014537.D	14.896	
PB163522BL	PB163522BL	19 Sep 2024 19:28	FF014538.D	14.894	
PB163522BS	PB163522BS	19 Sep 2024 19:58	FF014539.D	14.892	
WC-23MS	P4103-16MS	19 Sep 2024 20:56	FF014541.D	14.893	
WC-23MSD	P4103-16MSD	19 Sep 2024 21:25	FF014542.D	14.893	
WC-22A	P4103-01	19 Sep 2024 21:55	FF014543.D	00.000	
WC-14-5-7.5A	P4103-04	19 Sep 2024 22:24	FF014544.D	00.000	
WC-14-5-7.5B	P4103-07	19 Sep 2024 22:53	FF014545.D	14.894	
WC-14-7.5-10A	P4103-10	19 Sep 2024 23:22	FF014546.D	00.000	
WC-23	P4103-16	20 Sep 2024 00:21	FF014548.D	00.000	
PIBLK02	I.BLK02	20 Sep 2024 00:50	FF014549.D	14.893	
50 PPM TRPH STD	50 PPM TRPH STD	20 Sep 2024 01:49	FF014550.D	14.895	
PIBLK03	I.BLK03	20 Sep 2024 07:29	FF014552.D	14.891	
50 PPM TRPH STD	50 PPM TRPH STD	20 Sep 2024 07:58	FF014553.D	14.894	
WC-14-7.5-10B	P4103-13	20 Sep 2024 09:03	FF014555.D	14.845	
PIBLK04	I.BLK04	20 Sep 2024 09:40	FF014556.D	14.893	
50 PPM TRPH STD	50 PPM TRPH STD	20 Sep 2024 10:09	FF014557.D	14.894	

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

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.7996	14.9996

QC SAMPLE DATA

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

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB163522BL		SDG No.:	P4103	
Lab Sample ID:	PB163522BL		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
FF014538.D	1	09/19/24 11:09	09/19/24 19:28	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	185	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	16.4		37 - 130	82%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014538.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 19:28
Operator : YP\AJ
Sample : PB163522BL
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB163522BL

Integration File: autoint1.e
Quant Time: Sep 20 02:28:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	14.894	1758175	16.384 ug/ml
Target Compounds				

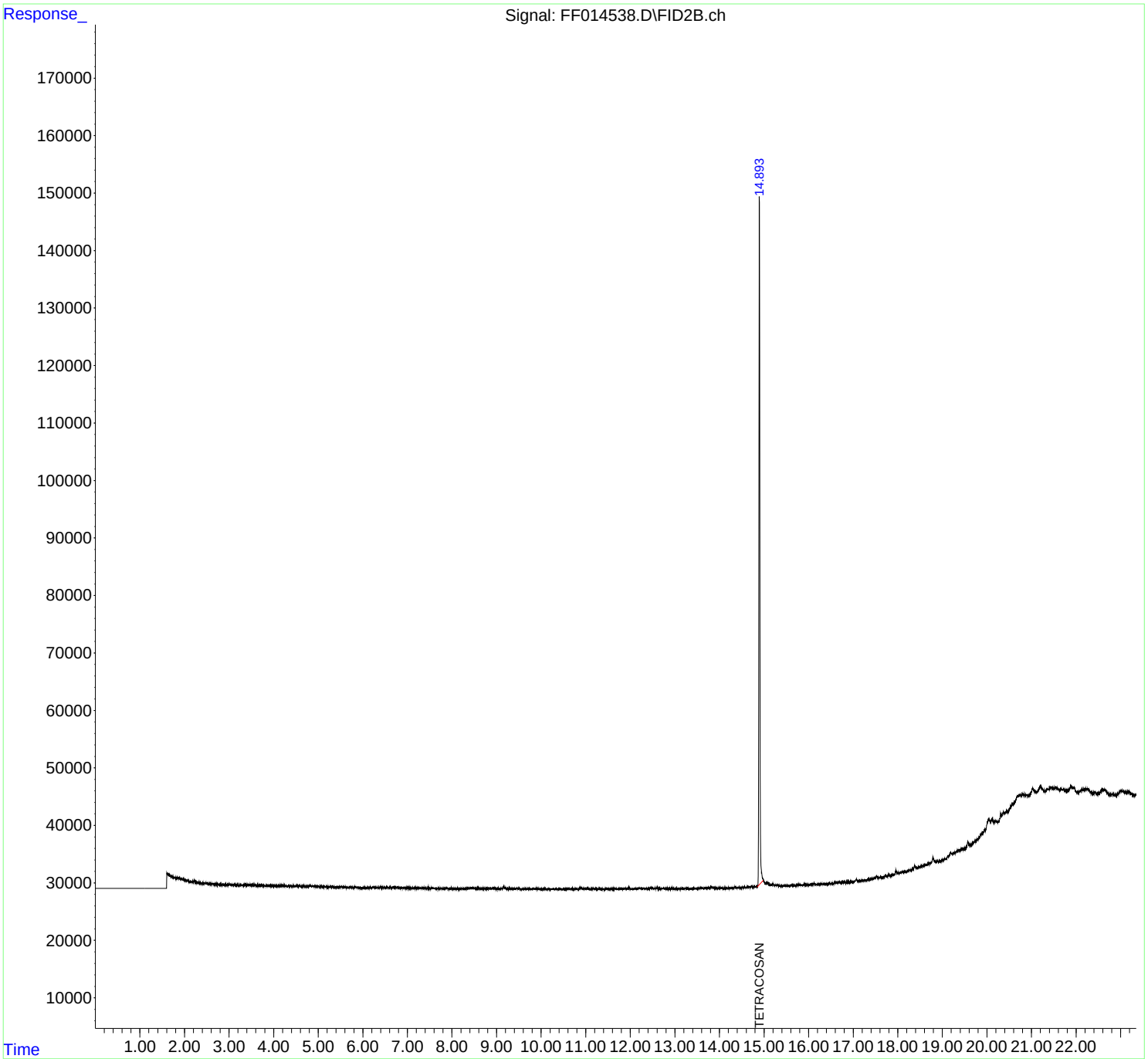
(f)=RT Delta > 1/2 Window (m)=manual int.

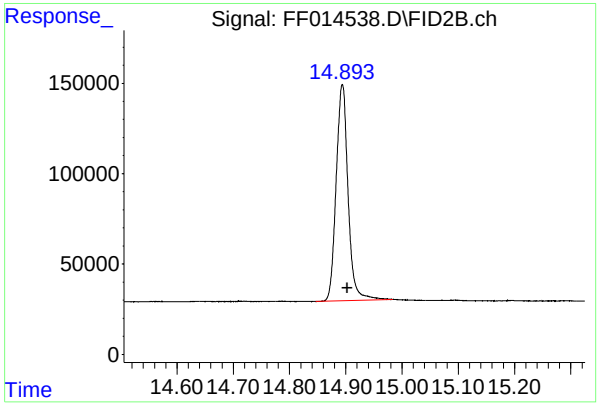
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014538.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 19:28
Operator : YP\AJ
Sample : PB163522BL
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB163522BL

Integration File: autoint1.e
Quant Time: Sep 20 02:28:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.894 min
Delta R.T.: -0.009 mi
Response: 1758175
Conc: 16.38 ug/m

Instrument :
FID_F
ClientSampleId :
PB163522BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014538.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 19:28
Sample : PB163522BL
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.894	14.847	14.984	BB	119722	1758175	100.00%	100.000%

Sum of corrected areas: 1758175

FF091124.M Fri Sep 20 03:20:08 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/19/24
Project:	North Point	Date Received:	09/19/24
Client Sample ID:	PIBLK-FF014536.D	SDG No.:	P4103
Lab Sample ID:	I.BLK-FF014536.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014536.D	1		09/19/24	FF091924

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

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014536.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 17:02
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 20 02:27:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.894	1751147	16.318 ug/ml
Target Compounds			

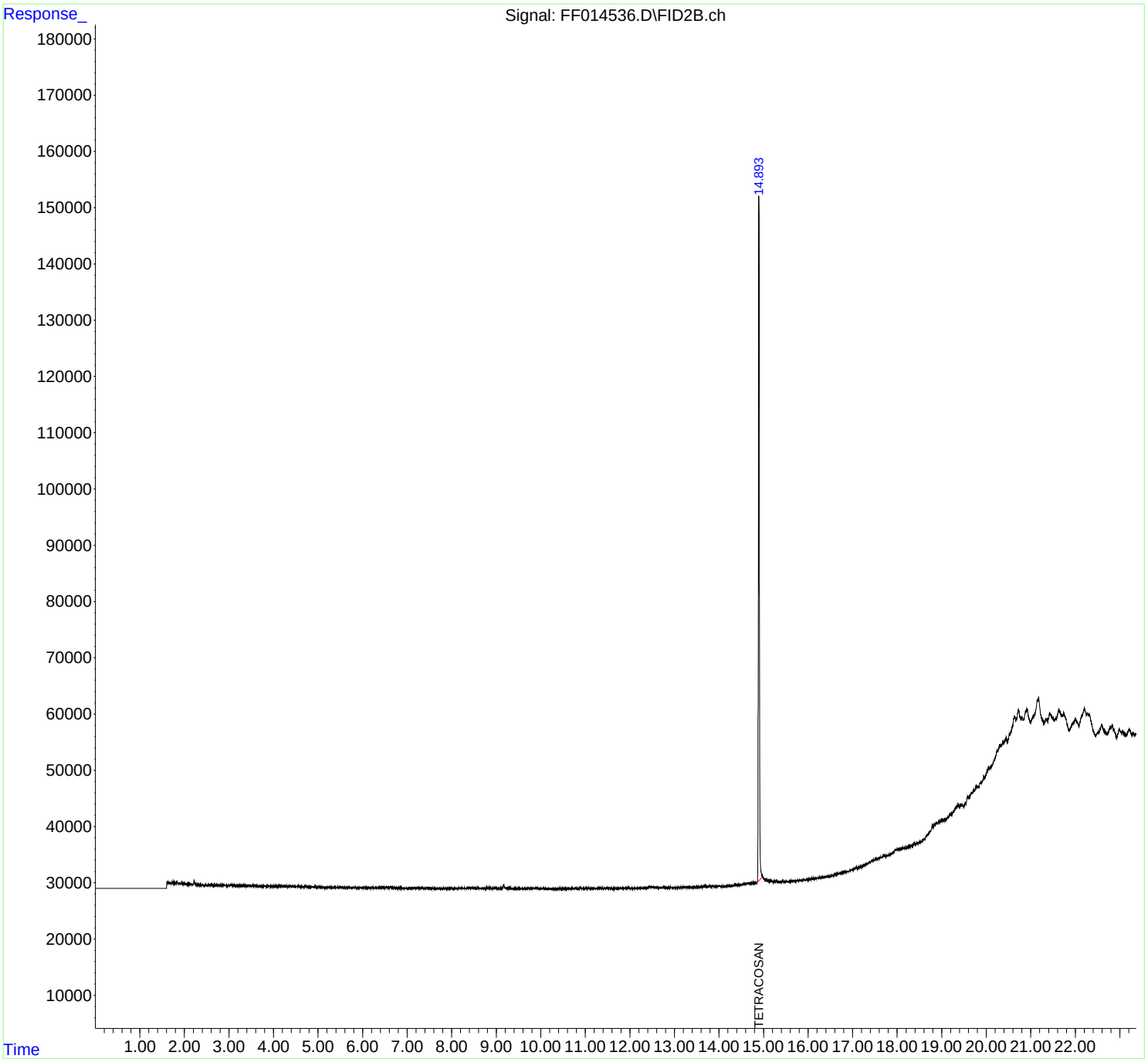
(f)=RT Delta > 1/2 Window (m)=manual int.

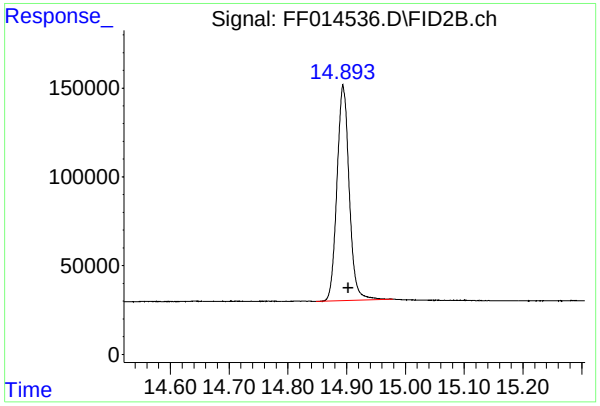
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014536.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 17:02
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 20 02:27:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.894 min
Delta R.T.: -0.009 mi
Response: 1751147
Conc: 16.32 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014536.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 17:02
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.894	14.848	14.979	BB	121509	1751147	100.00%	100.000%
			Sum of corrected areas:			1751147		

FF091124.M Fri Sep 20 03:19:34 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/20/24
Project:	North Point	Date Received:	09/20/24
Client Sample ID:	PIBLK-FF014549.D	SDG No.:	P4103
Lab Sample ID:	I.BLK-FF014549.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014549.D	1		09/20/24	FF091924

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

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014549.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 00:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 20 02:29:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	14.893	1782964	16.615 ug/ml
	Target Compounds			

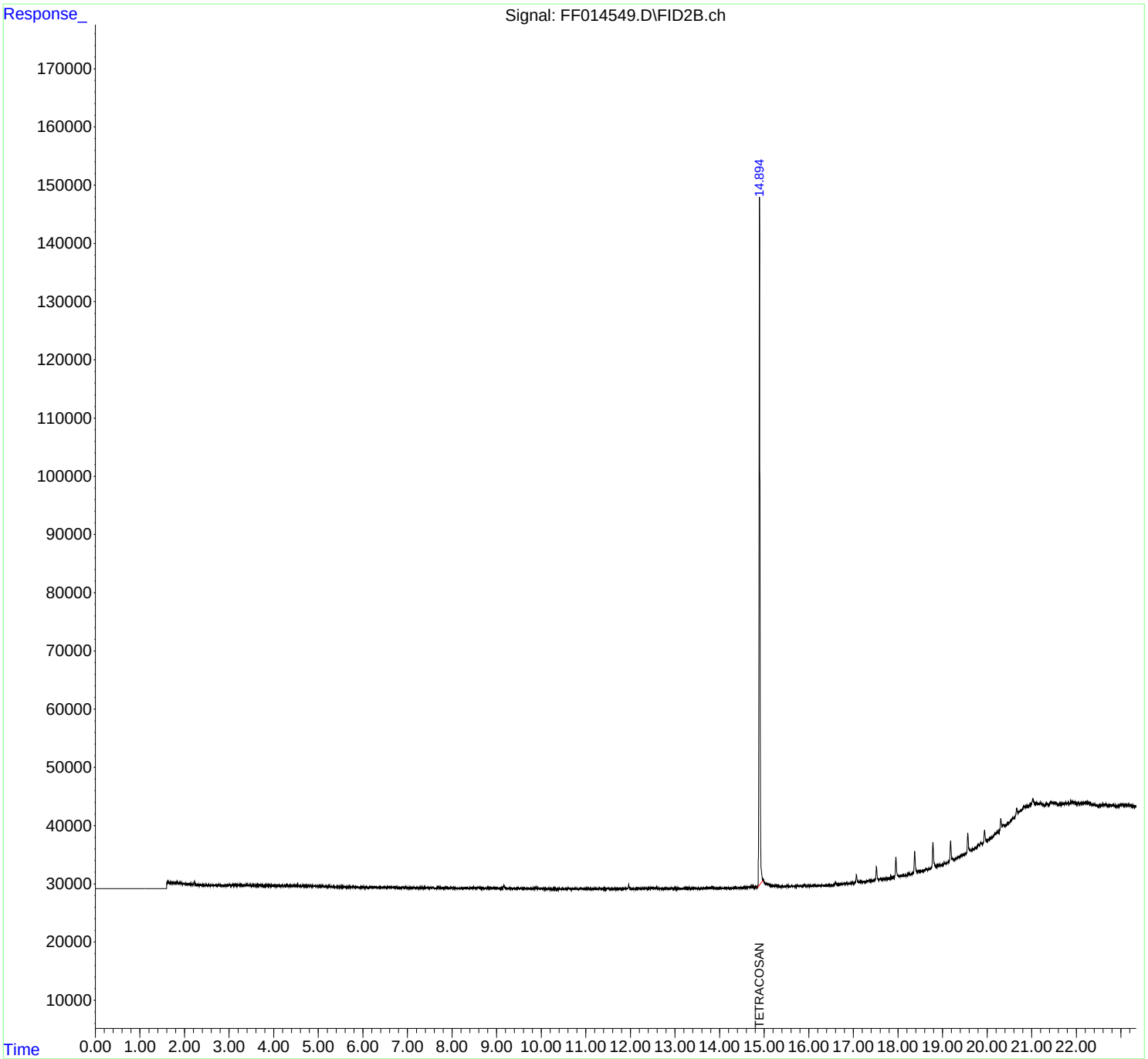
(f)=RT Delta > 1/2 Window (m)=manual int.

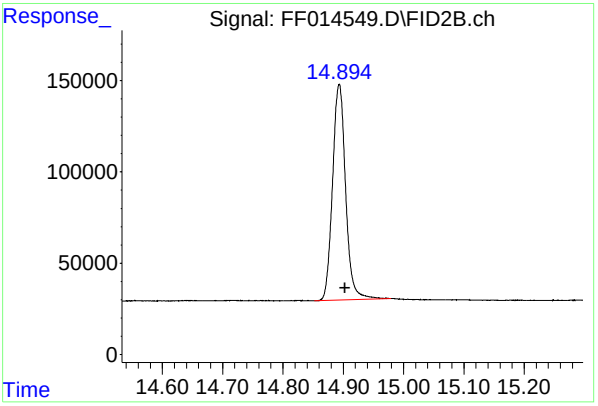
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014549.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 00:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 20 02:29:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.893 min
Delta R.T.: -0.010 mi
Response: 1782964
Conc: 16.61 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014549.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 00:50
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.893	14.852	14.979	BB	118153	1782964	100.00%	100.000%
			Sum of corrected areas:			1782964		

FF091124.M Fri Sep 20 03:22:08 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/20/24
Project:	North Point	Date Received:	09/20/24
Client Sample ID:	PIBLK-FF014552.D	SDG No.:	P4103
Lab Sample ID:	I.BLK-FF014552.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014552.D	1		09/20/24	FF092024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	21.3		29 - 130	107%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014552.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 07:29
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 20 09:54:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	14.891	2288802	21.329 ug/ml
	Target Compounds			

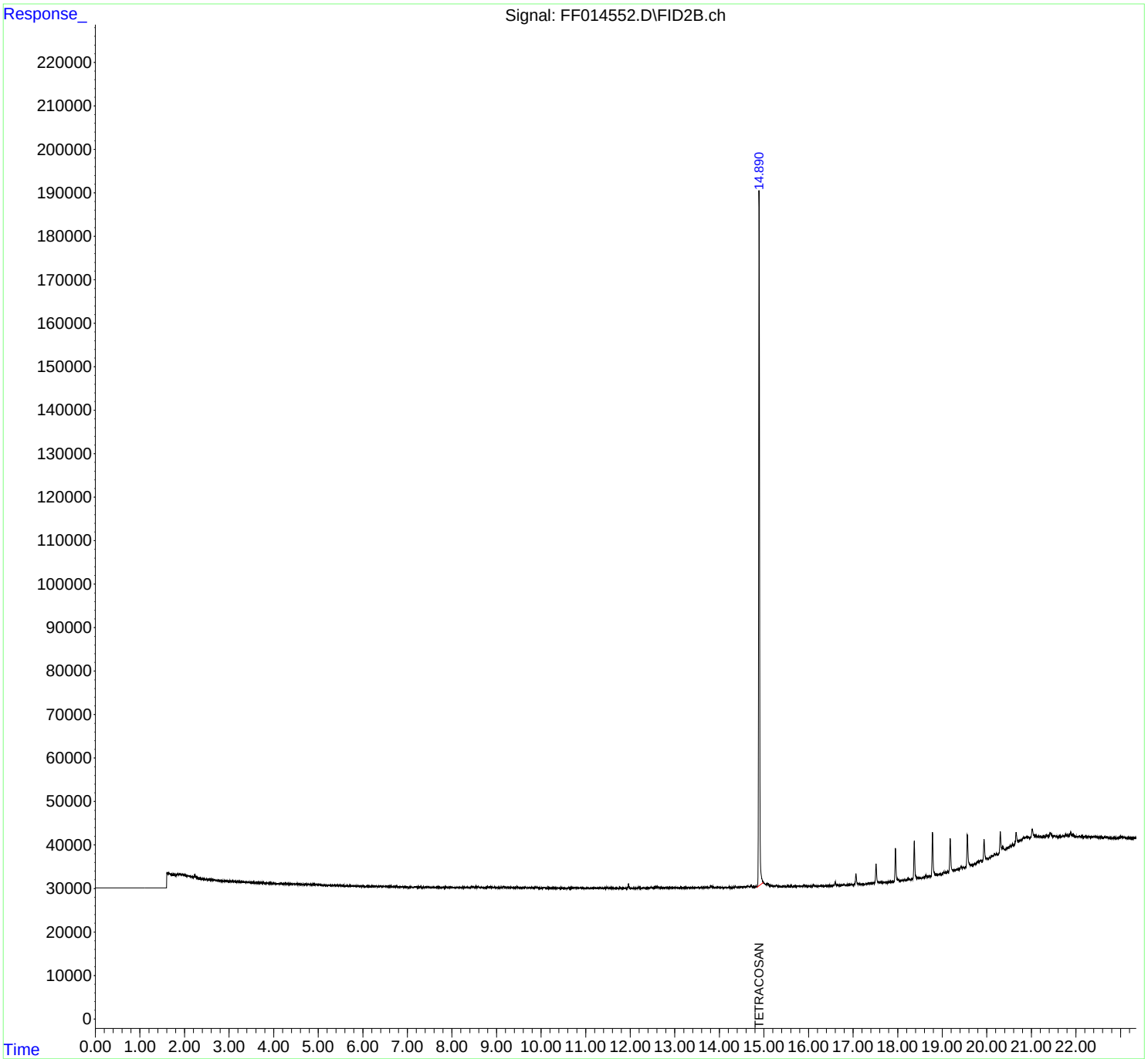
(f)=RT Delta > 1/2 Window (m)=manual int.

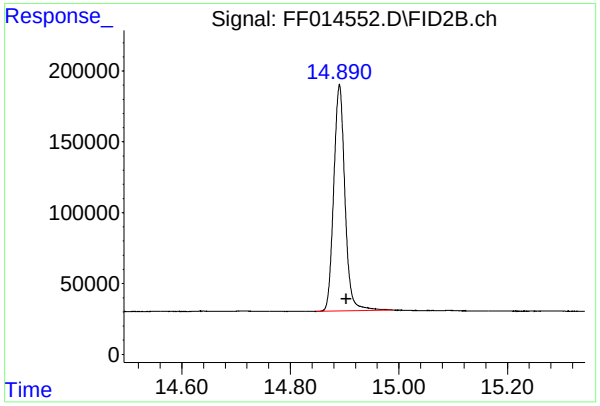
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014552.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 07:29
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 20 09:54:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.891 min
Delta R.T.: -0.012 mi
Response: 2288802
Conc: 21.33 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014552.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 07:29
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	14.891	14.848	14.989	BB	159784	2288802	100.00%	100.000%

Sum of corrected areas: 2288802

FF091124.M Fri Sep 20 10:01:35 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/20/24
Project:	North Point	Date Received:	09/20/24
Client Sample ID:	PIBLK-FF014556.D	SDG No.:	P4103
Lab Sample ID:	I.BLK-FF014556.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014556.D	1		09/20/24	FF092024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.1		29 - 130	91%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014556.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 09:40
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 21 00:28:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	14.893	1946573	18.139	ug/ml
	Target Compounds				

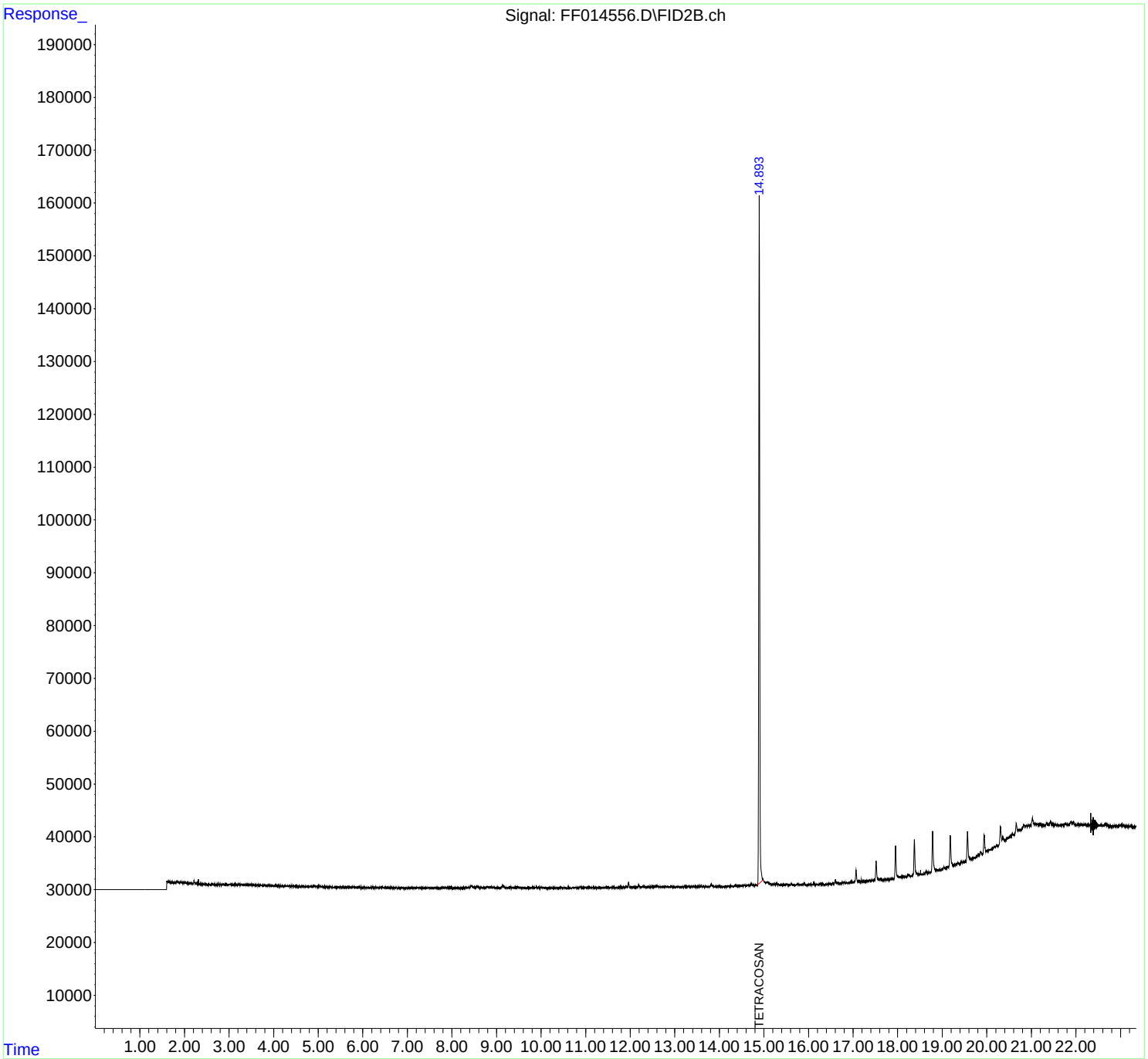
(f)=RT Delta > 1/2 Window (m)=manual int.

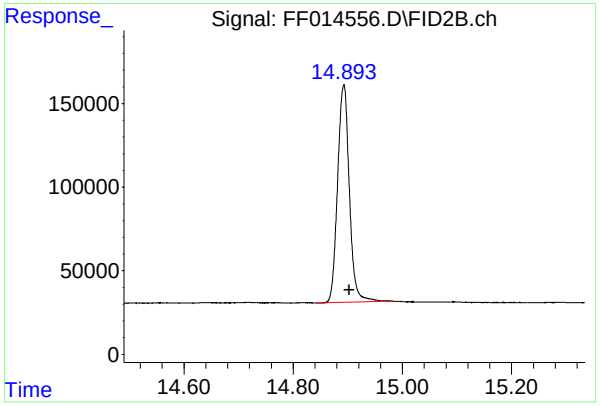
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014556.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 09:40
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Sep 21 00:28:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.893 min
Delta R.T.: -0.010 mi
Response: 1946573
Conc: 18.14 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092024\
Data File : FF014556.D
Signal(s) : FID2B.ch
Acq On : 20 Sep 2024 09:40
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	14.893	14.842	14.983	BB	130233	1946573	100.00%	100.000%

Sum of corrected areas: 1946573

FF091124.M Sat Sep 21 01:01:16 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB163522BS		SDG No.:	P4103	
Lab Sample ID:	PB163522BS		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	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
FF014539.D	1	09/19/24 11:09	09/19/24 19:58	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6800		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	18.0		37 - 130	90%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014539.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 19:58
Operator : YP\AJ
Sample : PB163522BS
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB163522BS

Integration File: autoint1.e
Quant Time: Sep 20 02:28:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	14.892	1930537	17.990 ug/ml
	Target Compounds			
2)	N-DECANE	4.447	2300043	20.154 ug/ml
3)	N-DODECANE	6.613	2397059	21.158 ug/ml
4)	N-TETRADECANE	8.440	2331848	20.437 ug/ml
5)	N-HEXADECANE	10.045	2343831	20.358 ug/ml
6)	N-OCTADECANE	11.487	2485072	20.492 ug/ml
7)	N-EICOSANE	12.796	2481249	20.023 ug/ml
8)	N-DOCOSANE	13.993	2457946	20.356 ug/ml
10)	N-TETRACOSANE	15.096	2459374	20.507 ug/ml
11)	N-HEXACOSANE	16.117	2390273	20.317 ug/ml
12)	N-OCTACOSANE	17.066	2335257	20.279 ug/ml

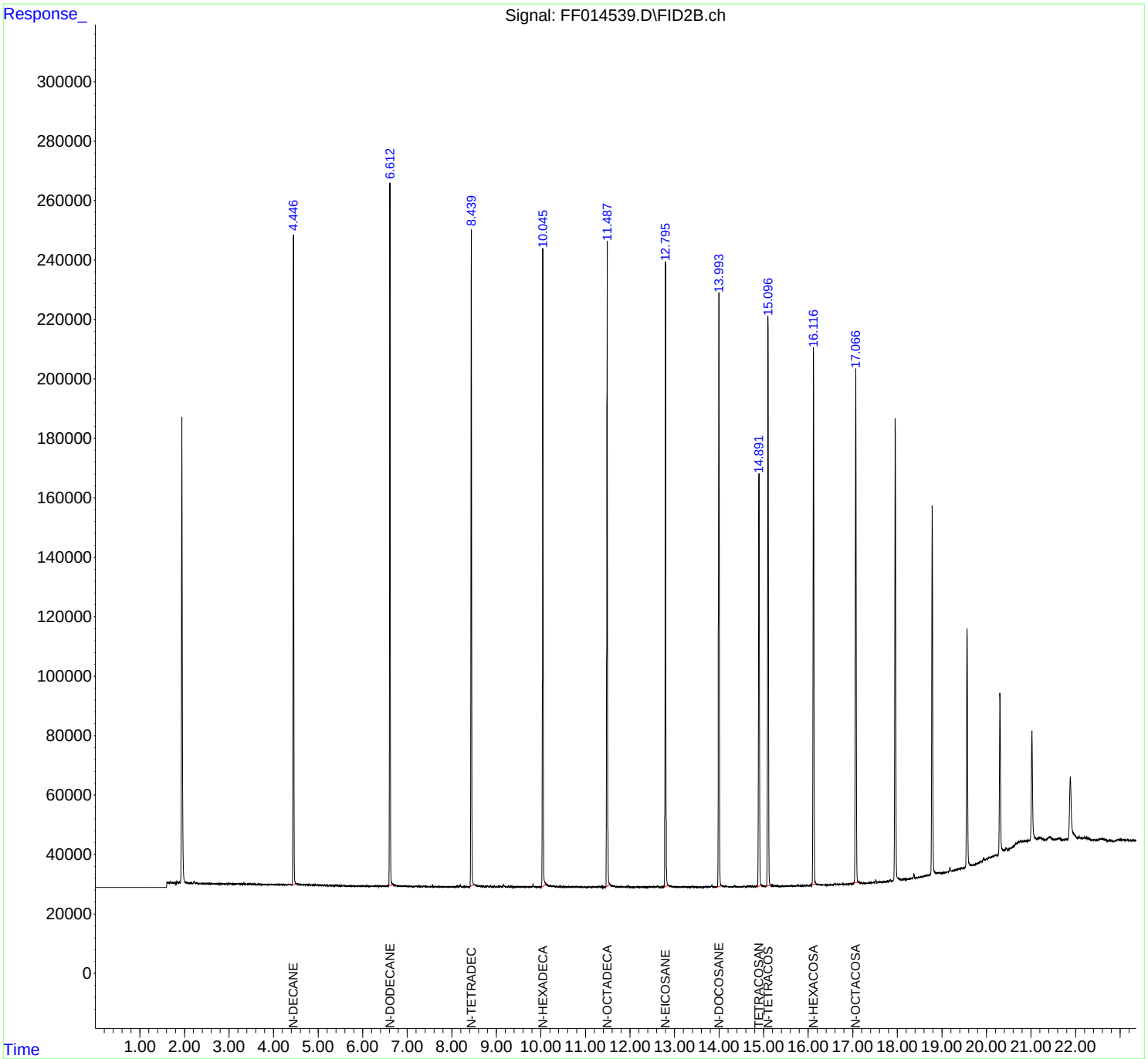
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014539.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 19:58
Operator : YP\AJ
Sample : PB163522BS
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB163522BS

Integration File: autoint1.e
Quant Time: Sep 20 02:28:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014539.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 19:58
Sample : PB163522BS
Misc :
ALS Vial : 77 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.447	4.410	4.503	BB	218365	2300043	92.55%	8.876%
2	6.613	6.571	6.672	BB	235962	2397059	96.46%	9.251%
3	8.440	8.409	8.504	BB	220686	2331848	93.83%	8.999%
4	10.045	10.011	10.112	BB	214658	2343831	94.32%	9.045%
5	11.487	11.449	11.550	BB	217107	2485072	100.00%	9.590%
6	12.796	12.760	12.861	BB	209919	2481249	99.85%	9.575%
7	13.993	13.952	14.051	BB	199597	2457946	98.91%	9.486%
8	14.892	14.850	14.952	BB	138632	1930537	77.69%	7.450%
9	15.096	15.056	15.156	BB	191473	2459374	98.97%	9.491%
10	16.117	16.065	16.178	BB	180438	2390273	96.19%	9.224%
11	17.066	17.018	17.130	BB	172889	2335257	93.97%	9.012%

Sum of corrected areas: 25912490

FF091124.M Fri Sep 20 03:22:45 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-23MS	SDG No.:	P4103
Lab Sample ID:	P4103-16MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86 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
FF014541.D	1	09/19/24 11:09	09/19/24 20:56	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	147000	E	215	1940	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.7		37 - 130	58%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014541.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 20:56
Operator : YP\AJ
Sample : P4103-16MS
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-23MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

Integration File: autoint1.e
Quant Time: Sep 20 02:28:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	14.893	1251903	11.666	ug/ml
	Target Compounds				
2)	N-DECANE	4.448	2552462	22.366	ug/ml
3)	N-DODECANE	6.615	3980453	35.133	ug/mlm
4)	N-TETRADECANE	8.442	2966657	26.000	ug/mlm
5)	N-HEXADECANE	10.046	2934473	25.488	ug/mlm
6)	N-OCTADECANE	11.490	2613056	21.547	ug/mlm
7)	N-EICOSANE	12.797	2544356	20.533	ug/mlm
8)	N-DOCOSANE	13.995	2468535	20.443	ug/ml
10)	N-TETRACOSANE	15.098	2328184	19.413	ug/ml
11)	N-HEXACOSANE	16.118	2264222	19.245	ug/ml
12)	N-OCTACOSANE	17.066	2243360	19.481	ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014541.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 20:56
Operator : YP\AJ
Sample : P4103-16MS
Misc :
ALS Vial : 79 Sample Multiplier: 1

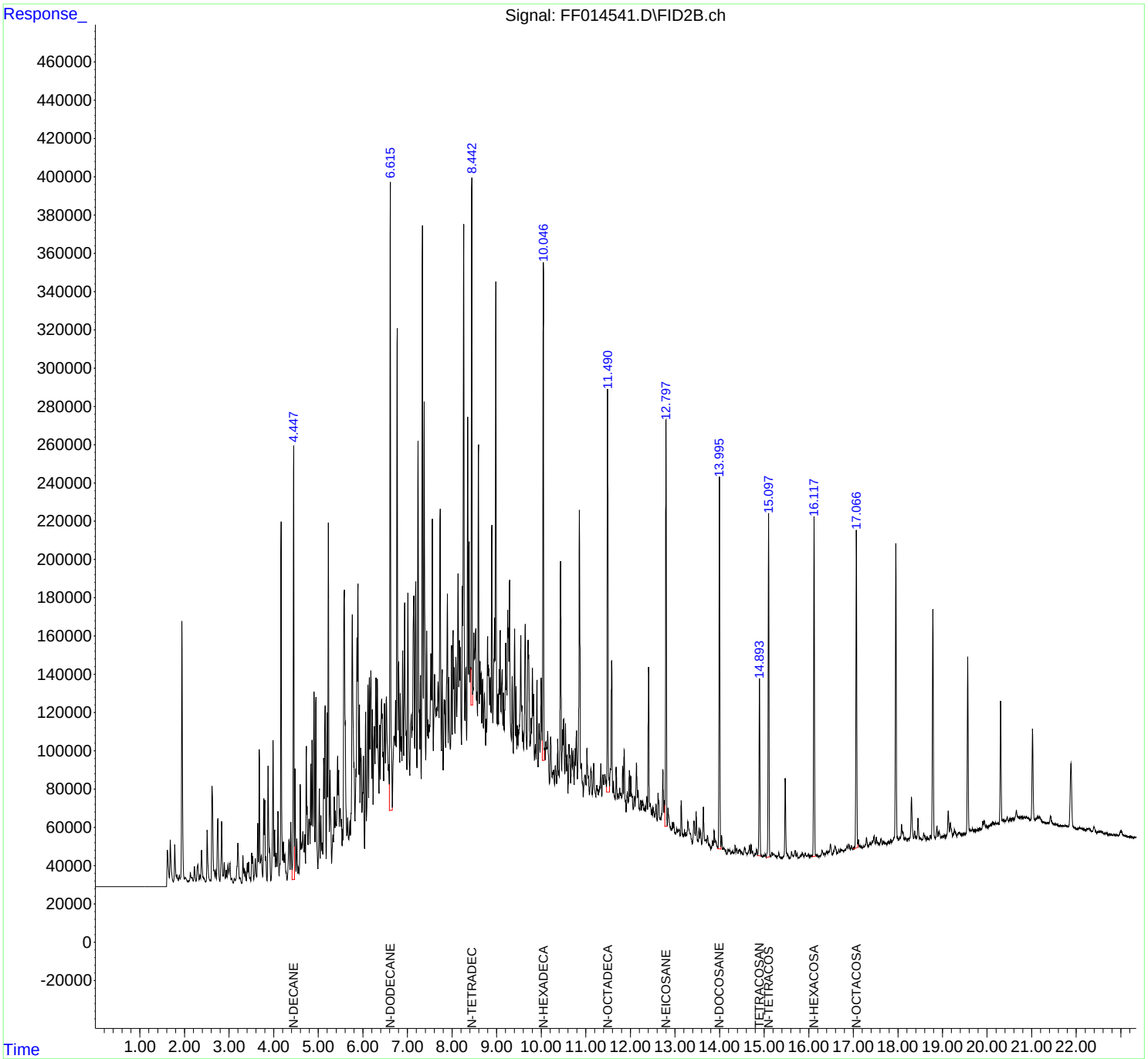
Integration File: autoint1.e
Quant Time: Sep 20 02:28:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
WC-23MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024



Instrument :
FID_F
ClientSampleId :
WC-23MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF09192
Data File : FF014541.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 20:56
Sample : P4103-16MS
Misc :
ALS Vial : 79 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.385	4.367	4.412	HH	31865	470492	7.25%	0.105%
2	4.448	4.412	4.467	HH	228470	2612347	40.28%	0.584%
3	4.480	4.467	4.500	HH	59844	634513	9.78%	0.142%
4	4.519	4.500	4.540	HH	23052	327322	5.05%	0.073%
5	4.553	4.540	4.567	HH	8273	106148	1.64%	0.024%
6	4.596	4.567	4.613	HH	51476	653830	10.08%	0.146%
7	4.624	4.613	4.638	HH	20425	295430	4.56%	0.066%
8	4.655	4.638	4.684	HH	27098	590838	9.11%	0.132%
9	4.698	4.684	4.713	HH	25477	332483	5.13%	0.074%
10	4.732	4.713	4.745	HH	71518	814159	12.55%	0.182%
11	4.751	4.745	4.770	HH	40222	478442	7.38%	0.107%
12	4.793	4.770	4.816	HH	33328	776390	11.97%	0.174%
13	4.831	4.816	4.846	HH	62316	763078	11.77%	0.171%
14	4.862	4.846	4.881	HH	74747	1032303	15.92%	0.231%
15	4.906	4.881	4.927	HH	99928	1634214	25.20%	0.366%
16	4.946	4.927	4.991	HH	97308	1607929	24.79%	0.360%
17	5.024	4.991	5.043	HH	49441	759183	11.71%	0.170%
18	5.060	5.043	5.079	HH	35325	529380	8.16%	0.118%
19	5.090	5.079	5.102	HH	21086	257928	3.98%	0.058%
20	5.123	5.102	5.134	HH	65429	773507	11.93%	0.173%
21	5.156	5.134	5.178	HH	92723	1679396	25.89%	0.376%
22	5.198	5.178	5.210	HH	88878	1018049	15.70%	0.228%
23	5.227	5.210	5.250	HH	188304	2294938	35.39%	0.513%
24	5.266	5.250	5.300	HH	59085	1051661	16.22%	0.235%
25	5.330	5.300	5.340	HH	25356	472641	7.29%	0.106%
26	5.361	5.340	5.374	HH	45087	686267	10.58%	0.154%
27	5.385	5.374	5.397	HH	37759	460060	7.09%	0.103%
28	5.402	5.397	5.409	HH	30984	224499	3.46%	0.050%
29	5.434	5.409	5.447	HH	66568	1124488	17.34%	0.252%
30	5.457	5.447	5.473	HH	59081	719779	11.10%	0.161%
31	5.494	5.473	5.511	HH	39150	819556	12.64%	0.183%
32	5.520	5.511	5.535	HH	33407	405290	6.25%	0.091%
33	5.547	5.535	5.555	HH	28300	305196	4.71%	0.068%
34	5.584	5.555	5.641	HH	153208	4109155	63.36%	0.919%
35	5.660	5.641	5.685	HH	34156	722496	11.14%	0.162%
36	5.710	5.685	5.722	HH	32581	615414	9.49%	0.138%

Instrument :
FID_F
ClientSampleId :
WC-23MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

37	5.763	5.722	5.798	HH	140354	3500129	53.97%	0.783%
38	5.803	5.798	5.822	HH	63038	721949	1	
39	5.847	5.822	5.854	HH	59817	896766	1	
40	5.868	5.854	5.876	HH	128312	1367180	2	
41	5.890	5.876	5.910	HH	156295	2324788	3	
42	5.924	5.910	5.938	HH	93297	1151048	1	
43	5.954	5.938	5.982	HH	70653	1542908	23.79%	0.345%
44	6.014	5.982	6.038	HH	66283	1512798	23.33%	0.338%
45	6.062	6.038	6.080	HH	89335	1274477	19.65%	0.285%
46	6.114	6.080	6.130	HH	103551	1925663	29.69%	0.431%
47	6.144	6.130	6.156	HH	107056	1235314	19.05%	0.276%
48	6.181	6.156	6.202	HH	111042	2435600	37.55%	0.545%
49	6.215	6.202	6.231	HH	90642	1171785	18.07%	0.262%
50	6.257	6.231	6.272	HH	81791	1683630	25.96%	0.377%
51	6.293	6.272	6.310	HH	107343	2018766	31.13%	0.452%
52	6.325	6.310	6.362	HH	106777	2396567	36.95%	0.536%
53	6.377	6.362	6.390	HH	82706	1126123	17.36%	0.252%
54	6.420	6.390	6.430	HH	96262	1943310	29.96%	0.435%
55	6.434	6.430	6.449	HH	88357	902977	13.92%	0.202%
56	6.454	6.449	6.468	HH	68494	726030	11.19%	0.162%
57	6.486	6.468	6.507	HH	93845	1793393	27.65%	0.401%
58	6.528	6.507	6.573	HH	97423	3001152	46.28%	0.671%
59	6.581	6.573	6.592	HH	61921	675164	10.41%	0.151%
60	6.616	6.592	6.663	HH	366572	5609512	86.49%	1.255%
61	6.698	6.663	6.703	HH	76970	1543847	23.80%	0.345%
62	6.710	6.703	6.720	HH	76252	754783	11.64%	0.169%
63	6.735	6.720	6.748	HH	95491	1408202	21.71%	0.315%
64	6.769	6.748	6.789	HH	289856	4080083	62.91%	0.913%
65	6.803	6.789	6.827	HH	115771	2112296	32.57%	0.473%
66	6.841	6.827	6.854	HH	98996	1310805	20.21%	0.293%
67	6.863	6.854	6.877	HH	76573	1005360	15.50%	0.225%
68	6.894	6.877	6.916	HH	121368	2145382	33.08%	0.480%
69	6.938	6.916	6.969	HH	146517	3190359	49.19%	0.714%
70	6.974	6.969	6.989	HH	78599	865524	13.35%	0.194%
71	7.011	6.989	7.053	HH	151803	3412507	52.62%	0.763%
72	7.086	7.053	7.100	HH	87954	2227996	34.35%	0.498%
73	7.109	7.100	7.115	HH	81540	669968	10.33%	0.150%
74	7.144	7.115	7.163	HH	150242	3420024	52.73%	0.765%
75	7.186	7.163	7.214	HH	157503	3262597	50.31%	0.730%
76	7.238	7.214	7.259	HH	230955	3728967	57.50%	0.834%
77	7.263	7.259	7.277	HH	90782	921353	14.21%	0.206%
78	7.292	7.277	7.309	HH	108662	1596841	24.62%	0.357%
79	7.336	7.309	7.357	HH	343597	5109307	78.78%	1.143%
80	7.376	7.357	7.412	HH	251257	4652010	71.73%	1.041%
81	7.433	7.412	7.449	HH	131825	2184980	33.69%	0.489%
82	7.459	7.449	7.470	HH	85570	1010627	15.58%	0.226%
83	7.481	7.470	7.490	HH	82605	988080	15.24%	0.221%
84	7.500	7.490	7.504	HH	83047	650189	10.03%	0.145%
85	7.528	7.504	7.542	HH	119995	2369401	36.53%	0.530%
86	7.560	7.542	7.581	HH	190314	2969604	45.79%	0.664%
87	7.610	7.581	7.638	HH	109188	3160327	48.73%	0.707%
88	7.648	7.638	7.658	HH	91202	1055286	16.27%	0.236%
89	7.666	7.658	7.673	HH	91871	798372	12.31%	0.179%

Instrument :
FID_F
ClientSampleId :
WC-23MS

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

90	7.688	7.673	7.710	HH	105096	2144454	33.07%	0.480%
91	7.734	7.710	7.762	HH	195426	3979935	61	
92	7.780	7.762	7.801	HH	111590	2013777	31	
93	7.825	7.801	7.833	HH	96181	1549533	23	
94	7.843	7.833	7.858	HH	95462	1284319	19	
95	7.898	7.858	7.914	HH	151140	3593496	55	
96	7.928	7.914	7.963	HH	107733	2508407	38.68%	0.561%
97	7.989	7.963	8.005	HH	124185	2323996	35.83%	0.520%
98	8.024	8.005	8.037	HH	131997	2087808	32.19%	0.467%
99	8.046	8.037	8.067	HH	112744	1724673	26.59%	0.386%
100	8.089	8.067	8.107	HH	118088	2365535	36.47%	0.529%
101	8.136	8.107	8.154	HH	161872	3438996	53.03%	0.769%
102	8.166	8.154	8.179	HH	126615	1697806	26.18%	0.380%
103	8.189	8.179	8.214	HH	123138	2076957	32.02%	0.465%
104	8.234	8.214	8.242	HH	155201	2033639	31.36%	0.455%
105	8.263	8.242	8.288	HH	344273	5477664	84.46%	1.226%
106	8.309	8.288	8.329	HH	112531	2349927	36.23%	0.526%
107	8.353	8.329	8.369	HH	243591	3698292	57.02%	0.827%
108	8.382	8.369	8.403	HH	178502	2787881	42.99%	0.624%
109	8.443	8.403	8.463	HH	368572	6485459	100.00%	1.451%
110	8.491	8.463	8.504	HH	130587	2747215	42.36%	0.615%
111	8.532	8.504	8.550	HH	132894	3286328	50.67%	0.735%
112	8.558	8.550	8.572	HH	100116	1277883	19.70%	0.286%
113	8.593	8.572	8.613	HH	229054	3623304	55.87%	0.811%
114	8.630	8.613	8.642	HH	115970	1814700	27.98%	0.406%
115	8.652	8.642	8.669	HH	109611	1627457	25.09%	0.364%
116	8.686	8.669	8.704	HH	106618	2001220	30.86%	0.448%
117	8.727	8.704	8.755	HH	98833	2702470	41.67%	0.605%
118	8.771	8.755	8.780	HH	85881	1197422	18.46%	0.268%
119	8.798	8.780	8.809	HH	128743	1888446	29.12%	0.423%
120	8.817	8.809	8.845	HH	113923	2320319	35.78%	0.519%
121	8.862	8.845	8.874	HH	107267	1738172	26.80%	0.389%
122	8.892	8.874	8.916	HH	186111	3250948	50.13%	0.727%
123	8.955	8.916	8.965	HH	138716	3341478	51.52%	0.748%
124	8.983	8.965	9.014	HH	313675	5045455	77.80%	1.129%
125	9.030	9.014	9.043	HH	99026	1584381	24.43%	0.354%
126	9.057	9.043	9.067	HH	111692	1453161	22.41%	0.325%
127	9.080	9.067	9.097	HH	132302	2047223	31.57%	0.458%
128	9.126	9.097	9.141	HH	111619	2606277	40.19%	0.583%
129	9.153	9.141	9.170	HH	99475	1581150	24.38%	0.354%
130	9.205	9.170	9.233	HH	125753	3868311	59.65%	0.865%
131	9.250	9.233	9.259	HH	142671	1940108	29.91%	0.434%
132	9.266	9.259	9.278	HH	133232	1438733	22.18%	0.322%
133	9.291	9.278	9.331	HH	158290	3361852	51.84%	0.752%
134	9.350	9.331	9.373	HH	107724	2243309	34.59%	0.502%
135	9.405	9.373	9.424	HH	132999	2924593	45.09%	0.654%
136	9.438	9.424	9.453	HH	102868	1550220	23.90%	0.347%
137	9.466	9.453	9.480	HH	82213	1205369	18.59%	0.270%
138	9.543	9.480	9.560	HH	129519	4439981	68.46%	0.993%
139	9.567	9.560	9.583	HH	92589	1172834	18.08%	0.262%
140	9.592	9.583	9.607	HH	78442	1077235	16.61%	0.241%
141	9.643	9.607	9.678	HH	135125	4136773	63.79%	0.926%

Instrument :
FID_F
ClientSampleId :
WC-23MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

142	9.705	9.678	9.715	HH	126901	2246422	34.64%	0.503%
143	9.721	9.715	9.747	HH	119206	1874574	28	
144	9.776	9.747	9.788	HH	86153	1947251	30	
145	9.805	9.788	9.819	HH	112560	1796564	27	
146	9.829	9.819	9.849	HH	98794	1508225	23	
147	9.870	9.849	9.887	HH	72355	1527979	23	
148	9.905	9.887	9.931	HH	105946	2106654	32.48%	0.471%
149	9.953	9.931	9.975	HH	83430	1927399	29.72%	0.431%
150	10.000	9.975	10.021	HH	107234	2410803	37.17%	0.539%
151	10.047	10.021	10.091	HH	324538	5693373	87.79%	1.274%
152	10.106	10.091	10.127	HH	73825	1529406	23.58%	0.342%
153	10.147	10.127	10.185	HH	79461	2325933	35.86%	0.520%
154	10.213	10.185	10.245	HH	76423	2288345	35.28%	0.512%
155	10.255	10.245	10.264	HH	57793	643711	9.93%	0.144%
156	10.278	10.264	10.300	HH	59120	1228708	18.95%	0.275%
157	10.318	10.300	10.346	HH	61455	1567504	24.17%	0.351%
158	10.371	10.346	10.386	HH	75185	1490563	22.98%	0.333%
159	10.393	10.386	10.404	HH	58428	621349	9.58%	0.139%
160	10.435	10.404	10.460	HH	168304	3445971	53.13%	0.771%
161	10.479	10.460	10.490	HH	80338	1281064	19.75%	0.287%
162	10.504	10.490	10.528	HH	85633	1715111	26.45%	0.384%
163	10.546	10.528	10.567	HH	83375	1606183	24.77%	0.359%
164	10.580	10.567	10.601	HH	66808	1202954	18.55%	0.269%
165	10.623	10.601	10.662	HH	72468	2268431	34.98%	0.508%
166	10.685	10.662	10.700	HH	70487	1402667	21.63%	0.314%
167	10.717	10.700	10.737	HH	69323	1385315	21.36%	0.310%
168	10.761	10.737	10.772	HH	70434	1331277	20.53%	0.298%
169	10.791	10.772	10.812	HH	79645	1627502	25.09%	0.364%
170	10.858	10.812	10.887	HH	195215	4585275	70.70%	1.026%
171	10.902	10.887	10.944	HH	62525	1881855	29.02%	0.421%
172	10.982	10.944	11.004	HH	56367	1897944	29.26%	0.425%
173	11.027	11.004	11.082	HH	70762	2637819	40.67%	0.590%
174	11.115	11.082	11.145	HH	59653	2008627	30.97%	0.449%
175	11.177	11.145	11.225	HH	62720	2505209	38.63%	0.560%
176	11.249	11.225	11.276	HH	51172	1466780	22.62%	0.328%
177	11.337	11.276	11.360	HH	62246	2588408	39.91%	0.579%
178	11.382	11.360	11.404	HH	56681	1394023	21.49%	0.312%
179	11.428	11.404	11.447	HH	56614	1435271	22.13%	0.321%
180	11.453	11.447	11.462	HH	52791	446490	6.88%	0.100%
181	11.490	11.462	11.532	HH	257970	4607595	71.05%	1.031%
182	11.551	11.532	11.557	HH	59614	842553	12.99%	0.189%
183	11.580	11.557	11.607	HH	116411	2399635	37.00%	0.537%
184	11.621	11.607	11.661	HH	53211	1536875	23.70%	0.344%
185	11.681	11.661	11.705	HH	60782	1350433	20.82%	0.302%
186	11.723	11.705	11.740	HH	46893	968090	14.93%	0.217%
187	11.761	11.740	11.778	HH	49506	1076282	16.60%	0.241%
188	11.789	11.778	11.804	HH	47185	715248	11.03%	0.160%
189	11.829	11.804	11.843	HH	61115	1230395	18.97%	0.275%
190	11.860	11.843	11.904	HH	69738	1813656	27.96%	0.406%
191	11.929	11.904	11.954	HH	47883	1308671	20.18%	0.293%
192	11.977	11.954	11.993	HH	58862	1182642	18.24%	0.265%
193	12.009	11.993	12.064	HH	55509	1966973	30.33%	0.440%
194	12.091	12.064	12.107	HH	45382	1105735	17.05%	0.247%

Instrument :
FID_F
ClientSampleId :
WC-23MS

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

195	12.135	12.107	12.157	HH	62888	1553863	23.96%	0.348%
196	12.171	12.157	12.211	HH	48469	1362436	21	
197	12.232	12.211	12.247	HH	43333	878868	13	
198	12.272	12.247	12.308	HH	43076	1485490	22	
199	12.312	12.308	12.321	HH	38512	308236	4	
200	12.335	12.321	12.345	HH	40239	549050	8	
201	12.367	12.345	12.384	HH	45238	983585	15.17%	0.220%
202	12.407	12.384	12.433	HH	112979	2011462	31.01%	0.450%
203	12.448	12.433	12.469	HH	41620	848818	13.09%	0.190%
204	12.478	12.469	12.494	HH	38269	554024	8.54%	0.124%
205	12.507	12.494	12.538	HH	39716	973656	15.01%	0.218%
206	12.574	12.538	12.600	HH	41361	1357899	20.94%	0.304%
207	12.620	12.600	12.666	HH	46929	1549424	23.89%	0.347%
208	12.673	12.666	12.687	HH	33559	424095	6.54%	0.095%
209	12.728	12.687	12.749	HH	59441	1590853	24.53%	0.356%
210	12.765	12.749	12.772	HH	43164	569168	8.78%	0.127%
211	12.798	12.772	12.826	HH	241901	3505255	54.05%	0.784%
212	12.844	12.826	12.925	HH	39250	1902322	29.33%	0.426%
213	12.941	12.925	12.955	HH	31568	533692	8.23%	0.119%
214	12.970	12.955	12.991	HH	31654	635968	9.81%	0.142%
215	12.997	12.991	13.013	HH	26414	338785	5.22%	0.076%
216	13.038	13.013	13.056	HH	28600	702501	10.83%	0.157%
217	13.065	13.056	13.072	HH	27308	258803	3.99%	0.058%
218	13.086	13.072	13.118	HH	28018	740481	11.42%	0.166%
219	13.139	13.118	13.196	HH	43194	1372202	21.16%	0.307%
220	13.212	13.196	13.229	HH	27919	521728	8.04%	0.117%
221	13.240	13.229	13.260	HH	26464	469961	7.25%	0.105%
222	13.287	13.260	13.336	HH	32165	1278093	19.71%	0.286%
223	13.345	13.336	13.389	HH	26045	757542	11.68%	0.169%
224	13.426	13.389	13.454	HH	32534	1060550	16.35%	0.237%
225	13.475	13.454	13.519	HH	37142	1061066	16.36%	0.237%
226	13.539	13.519	13.553	HH	28415	503629	7.77%	0.113%
227	13.570	13.553	13.598	HH	27853	665344	10.26%	0.149%
228	13.635	13.598	13.679	HH	39844	1294068	19.95%	0.290%
229	13.693	13.679	13.709	HH	22990	401691	6.19%	0.090%
230	13.726	13.709	13.753	HH	24813	601400	9.27%	0.135%
231	13.760	13.753	13.795	HH	20344	496442	7.65%	0.111%
232	13.802	13.795	13.810	HH	18760	160890	2.48%	0.036%
233	13.814	13.810	13.819	HH	18618	97151	1.50%	0.022%
234	13.840	13.819	13.856	HH	22107	465423	7.18%	0.104%
235	13.877	13.856	13.894	HH	27414	531994	8.20%	0.119%
236	13.913	13.894	13.951	HH	21943	702454	10.83%	0.157%
237	13.995	13.951	14.029	HH	212092	3311066	51.05%	0.741%
238	14.046	14.029	14.072	HH	24897	534951	8.25%	0.120%
239	14.090	14.072	14.126	HH	18414	581271	8.96%	0.130%
240	14.139	14.126	14.169	HH	17253	421166	6.49%	0.094%
241	14.191	14.169	14.216	HH	17584	471200	7.27%	0.105%
242	14.223	14.216	14.234	HH	17360	190045	2.93%	0.043%
243	14.238	14.234	14.257	HH	16888	221524	3.42%	0.050%
244	14.295	14.257	14.314	HH	16988	555565	8.57%	0.124%
245	14.318	14.314	14.324	HH	15840	94601	1.46%	0.021%
246	14.348	14.324	14.367	HH	19653	446487	6.88%	0.100%

Instrument :
FID_F
ClientSampleId :
WC-23MS

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

247	14.383	14.367	14.411	HH	18102	446351	6.88%	0.100%
248	14.447	14.411	14.454	HH	17307	435097	6	
249	14.463	14.454	14.479	HH	17314	245147	3	
250	14.491	14.479	14.527	HH	16456	461250	7	
251	14.558	14.527	14.598	HH	18583	711391	10	
252	14.602	14.598	14.620	HH	15696	201864	3	
253	14.671	14.620	14.690	HH	19686	712890	10.99%	0.159%
254	14.707	14.690	14.728	HH	20021	398973	6.15%	0.089%
255	14.737	14.728	14.767	HH	16913	367398	5.66%	0.082%
256	14.801	14.767	14.810	HH	15432	376708	5.81%	0.084%
257	14.829	14.810	14.852	HH	17606	404969	6.24%	0.091%
258	14.893	14.852	14.928	HH	106808	1905605	29.38%	0.426%
259	14.936	14.928	14.948	HH	14741	172417	2.66%	0.039%
260	14.955	14.948	14.960	HH	13905	94119	1.45%	0.021%
261	14.966	14.960	14.977	HH	14036	145186	2.24%	0.032%
262	14.984	14.977	14.989	HH	14430	99623	1.54%	0.022%
263	14.999	14.989	15.011	HH	14558	187725	2.89%	0.042%
264	15.022	15.011	15.042	HH	15437	270550	4.17%	0.061%
265	15.098	15.042	15.129	HH	193521	3039150	46.86%	0.680%
266	15.139	15.129	15.152	HH	14407	197827	3.05%	0.044%
267	15.170	15.152	15.175	HH	15893	204026	3.15%	0.046%
268	15.177	15.175	15.189	HH	15837	131181	2.02%	0.029%
269	15.218	15.189	15.287	HH	15219	858448	13.24%	0.192%
270	15.304	15.287	15.309	HH	14279	183944	2.84%	0.041%
271	15.326	15.309	15.379	HH	16098	592670	9.14%	0.133%
272	15.382	15.379	15.397	HH	13299	145092	2.24%	0.032%
273	15.471	15.397	15.521	HH	54734	1594348	24.58%	0.357%
274	15.532	15.521	15.554	HH	15085	280155	4.32%	0.063%
275	15.566	15.554	15.584	HH	13430	237486	3.66%	0.053%
276	15.613	15.584	15.636	HH	16507	460816	7.11%	0.103%
277	15.644	15.636	15.656	HH	14433	172756	2.66%	0.039%
278	15.691	15.656	15.719	HH	17139	572416	8.83%	0.128%
279	15.736	15.719	15.769	HH	15620	430374	6.64%	0.096%
280	15.781	15.769	15.790	HH	13431	168632	2.60%	0.038%
281	15.803	15.790	15.816	HH	14257	219344	3.38%	0.049%
282	15.836	15.816	15.849	HH	15152	289678	4.47%	0.065%
283	15.854	15.849	15.891	HH	15498	368721	5.69%	0.082%
284	15.927	15.891	15.948	HH	15712	498981	7.69%	0.112%
285	15.956	15.948	15.962	HH	14178	123667	1.91%	0.028%
286	15.990	15.962	16.016	HH	15285	468421	7.22%	0.105%
287	16.020	16.016	16.034	HH	14195	152970	2.36%	0.034%
288	16.058	16.034	16.071	HH	14573	309719	4.78%	0.069%
289	16.118	16.071	16.161	HH	190704	3020751	46.58%	0.676%
290	16.170	16.161	16.176	HH	14469	127777	1.97%	0.029%
291	16.196	16.176	16.215	HH	14618	343979	5.30%	0.077%
292	16.235	16.215	16.241	HH	14229	219153	3.38%	0.049%
293	16.304	16.241	16.331	HH	16960	821204	12.66%	0.184%
294	16.335	16.331	16.342	HH	15471	102298	1.58%	0.023%
295	16.347	16.342	16.362	HH	15383	181602	2.80%	0.041%
296	16.399	16.362	16.421	HH	16575	550802	8.49%	0.123%
297	16.448	16.421	16.462	HH	16532	400365	6.17%	0.090%
298	16.485	16.462	16.524	HH	20318	666622	10.28%	0.149%
299	16.594	16.524	16.631	HH	19098	1088561	16.78%	0.244%

Instrument :
FID_F
ClientSampleId :
WC-23MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

300	16.640	16.631	16.654	HH	16066	216231	3.33%	0.048%
301	16.674	16.654	16.696	HH	17593	416618	6	
302	16.719	16.696	16.727	HH	17560	322773	4	
303	16.730	16.727	16.737	HH	17048	96119	1	
304	16.753	16.737	16.767	HH	17316	312432	4	
305	16.773	16.767	16.781	HH	17045	138339	2	
306	16.786	16.781	16.791	HH	16890	101839	1.57%	0.023%
307	16.811	16.791	16.816	HH	17435	257941	3.98%	0.058%
308	16.820	16.816	16.829	HH	17408	133596	2.06%	0.030%
309	16.863	16.829	16.879	HH	19296	555720	8.57%	0.124%
310	16.897	16.879	16.940	HH	20372	683339	10.54%	0.153%
311	16.958	16.940	16.986	HH	19486	514958	7.94%	0.115%
312	16.993	16.986	16.996	HH	17954	114421	1.76%	0.026%
313	17.014	16.996	17.018	HH	18507	239954	3.70%	0.054%
314	17.066	17.018	17.098	HH	184232	3116057	48.05%	0.697%
315	17.113	17.098	17.134	HH	22762	454207	7.00%	0.102%
316	17.147	17.134	17.171	HH	19684	422326	6.51%	0.094%
317	17.181	17.171	17.201	HHA	19087	347612	5.36%	0.078%

Sum of corrected areas: 446965434

FF091124.M Fri Sep 20 03:29:55 2024

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

Report of Analysis

Client:	ENTACT	Date Collected:	09/17/24
Project:	North Point	Date Received:	09/18/24
Client Sample ID:	WC-23MSD	SDG No.:	P4103
Lab Sample ID:	P4103-16MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014542.D	1	09/19/24 11:09	09/19/24 21:25	PB163522

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	147000	E	215	1940	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.7		37 - 130	59%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014542.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 21:25
Operator : YP\AJ
Sample : P4103-16MSD
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-23MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

Integration File: autoint1.e
Quant Time: Sep 20 02:28:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	14.893	1260134	11.743 ug/ml
	Target Compounds			
2)	N-DECANE	4.447	2519250	22.075 ug/ml
3)	N-DODECANE	6.616	4049570	35.743 ug/mlm
4)	N-TETRADECANE	8.443	2898818	25.406 ug/mlm
5)	N-HEXADECANE	10.047	3020918	26.239 ug/mlm
6)	N-OCTADECANE	11.489	2590554	21.362 ug/mlm
7)	N-EICOSANE	12.798	2523242	20.362 ug/mlm
8)	N-DOCOSANE	13.995	2443382	20.235 ug/ml
10)	N-TETRACOSANE	15.097	2297379	19.156 ug/ml
11)	N-HEXACOSANE	16.117	2252939	19.149 ug/ml
12)	N-OCTACOSANE	17.066	2253242	19.567 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF091924\
Data File : FF014542.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 21:25
Operator : YP\AJ
Sample : P4103-16MSD
Misc :
ALS Vial : 80 Sample Multiplier: 1

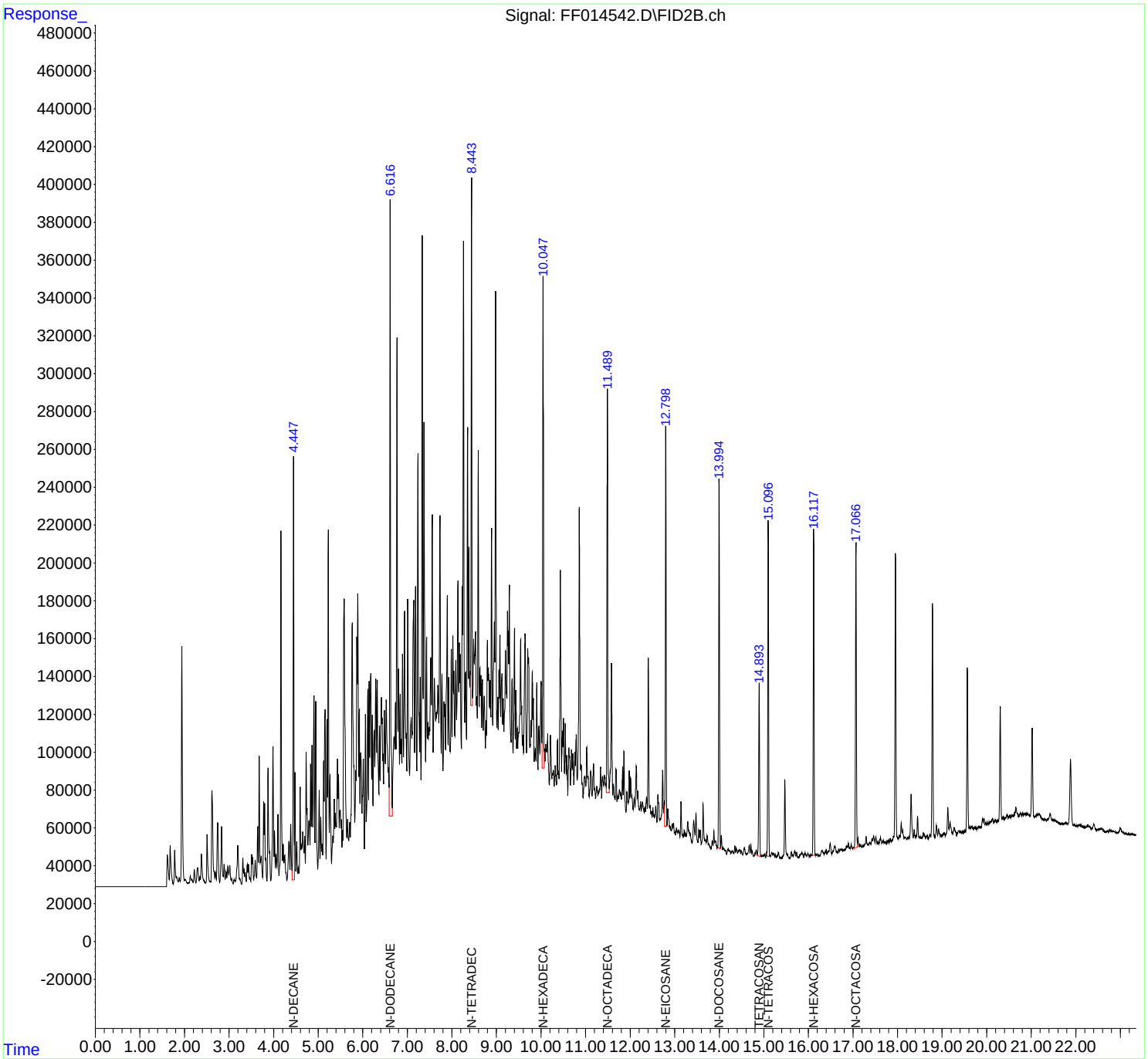
Integration File: autoint1.e
Quant Time: Sep 20 02:28:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Quant Title :
QLast Update : Tue Sep 10 16:18:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
WC-23MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024



Instrument :
FID_F
ClientSampleId :
WC-23MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF09192
Data File : FF014542.D
Signal(s) : FID2B.ch
Acq On : 19 Sep 2024 21:25
Sample : P4103-16MSD
Misc :
ALS Vial : 80 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF091124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.384	4.367	4.412	HH	31454	471838	8.36%	0.105%
2	4.447	4.412	4.467	HH	225817	2588199	45.85%	0.578%
3	4.480	4.467	4.500	HH	58855	634398	11.24%	0.142%
4	4.519	4.500	4.540	HH	22337	328553	5.82%	0.073%
5	4.553	4.540	4.566	HH	8493	105673	1.87%	0.024%
6	4.596	4.566	4.612	HH	51021	655548	11.61%	0.146%
7	4.623	4.612	4.634	HH	20201	251021	4.45%	0.056%
8	4.655	4.634	4.684	HH	27536	631345	11.18%	0.141%
9	4.698	4.684	4.713	HH	25186	340230	6.03%	0.076%
10	4.731	4.713	4.745	HH	69740	819513	14.52%	0.183%
11	4.750	4.745	4.770	HH	39869	460089	8.15%	0.103%
12	4.792	4.770	4.816	HH	33071	775871	13.74%	0.173%
13	4.831	4.816	4.846	HH	63354	763365	13.52%	0.170%
14	4.862	4.846	4.881	HH	73282	1026399	18.18%	0.229%
15	4.906	4.881	4.927	HH	99481	1626059	28.80%	0.363%
16	4.946	4.927	4.991	HH	96305	1603097	28.40%	0.358%
17	5.024	4.991	5.042	HH	49446	758899	13.44%	0.169%
18	5.060	5.042	5.079	HH	35189	529755	9.38%	0.118%
19	5.089	5.079	5.102	HH	21005	259125	4.59%	0.058%
20	5.123	5.102	5.133	HH	64936	765112	13.55%	0.171%
21	5.156	5.133	5.178	HH	92210	1678331	29.73%	0.375%
22	5.198	5.178	5.210	HH	86993	1012790	17.94%	0.226%
23	5.227	5.210	5.250	HH	187076	2280691	40.40%	0.509%
24	5.265	5.250	5.300	HH	57907	1052887	18.65%	0.235%
25	5.329	5.300	5.340	HH	25260	473080	8.38%	0.106%
26	5.361	5.340	5.374	HH	44783	691076	12.24%	0.154%
27	5.385	5.374	5.397	HH	37370	448304	7.94%	0.100%
28	5.403	5.397	5.410	HH	31169	237825	4.21%	0.053%
29	5.434	5.410	5.447	HH	65992	1113614	19.73%	0.249%
30	5.458	5.447	5.473	HH	57859	720030	12.75%	0.161%
31	5.496	5.473	5.511	HH	38998	812540	14.39%	0.181%
32	5.520	5.511	5.535	HH	33929	410455	7.27%	0.092%
33	5.547	5.535	5.556	HH	28235	308306	5.46%	0.069%
34	5.585	5.556	5.643	HH	150734	4113149	72.86%	0.918%
35	5.661	5.643	5.686	HH	34104	698288	12.37%	0.156%
36	5.710	5.686	5.722	HH	32583	609850	10.80%	0.136%

Instrument :
FID_F
ClientSampleId :
WC-23MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

37	5.764	5.722	5.823	HH	137866	4210064	74.58%	0.940%
38	5.847	5.823	5.853	HH	60189	875563	15	
39	5.868	5.853	5.877	HH	130436	1413857	25	
40	5.890	5.877	5.910	HH	153270	2277147	40	
41	5.924	5.910	5.938	HH	92418	1140798	20	
42	5.954	5.938	5.982	HH	69286	1546269	27	
43	6.014	5.982	6.038	HH	66043	1507524	26.71%	0.336%
44	6.062	6.038	6.079	HH	89653	1278872	22.65%	0.285%
45	6.114	6.079	6.130	HH	102851	1910460	33.84%	0.426%
46	6.144	6.130	6.156	HH	107032	1241114	21.99%	0.277%
47	6.180	6.156	6.201	HH	111200	2423161	42.93%	0.541%
48	6.215	6.201	6.230	HH	89217	1165349	20.64%	0.260%
49	6.257	6.230	6.272	HH	80672	1680534	29.77%	0.375%
50	6.294	6.272	6.310	HH	108232	2021179	35.80%	0.451%
51	6.326	6.310	6.362	HH	107680	2371939	42.02%	0.529%
52	6.377	6.362	6.390	HH	83490	1125881	19.94%	0.251%
53	6.420	6.390	6.430	HH	98416	1953904	34.61%	0.436%
54	6.435	6.430	6.448	HH	87760	872244	15.45%	0.195%
55	6.455	6.448	6.468	HH	68349	731656	12.96%	0.163%
56	6.485	6.468	6.508	HH	91162	1822643	32.29%	0.407%
57	6.528	6.508	6.572	HH	96904	2927024	51.85%	0.653%
58	6.580	6.572	6.591	HH	61379	685738	12.15%	0.153%
59	6.616	6.591	6.663	HH	361549	5584702	98.93%	1.246%
60	6.698	6.663	6.706	HH	76731	1659501	29.40%	0.370%
61	6.711	6.706	6.721	HH	77533	676907	11.99%	0.151%
62	6.735	6.721	6.748	HH	95955	1370679	24.28%	0.306%
63	6.769	6.748	6.789	HH	288457	4047381	71.70%	0.903%
64	6.803	6.789	6.827	HH	113506	2087536	36.98%	0.466%
65	6.841	6.827	6.853	HH	100055	1307525	23.16%	0.292%
66	6.864	6.853	6.878	HH	76550	1070076	18.96%	0.239%
67	6.893	6.878	6.915	HH	121502	2056403	36.43%	0.459%
68	6.938	6.915	6.968	HH	143872	3168286	56.12%	0.707%
69	6.974	6.968	6.989	HH	79580	898711	15.92%	0.201%
70	7.011	6.989	7.052	HH	150419	3393968	60.12%	0.757%
71	7.088	7.052	7.102	HH	87824	2284621	40.47%	0.510%
72	7.109	7.102	7.115	HH	80448	631418	11.19%	0.141%
73	7.143	7.115	7.163	HH	149613	3383698	59.94%	0.755%
74	7.186	7.163	7.214	HH	157123	3239027	57.38%	0.723%
75	7.239	7.214	7.278	HH	227421	4652896	82.42%	1.038%
76	7.292	7.278	7.309	HH	109158	1586261	28.10%	0.354%
77	7.337	7.309	7.357	HH	342231	5061437	89.66%	1.130%
78	7.375	7.357	7.411	HH	243940	4630602	82.03%	1.033%
79	7.432	7.411	7.449	HH	130311	2190119	38.80%	0.489%
80	7.460	7.449	7.471	HH	85064	1057480	18.73%	0.236%
81	7.480	7.471	7.491	HH	82704	955401	16.92%	0.213%
82	7.528	7.491	7.542	HH	119323	2983928	52.86%	0.666%
83	7.560	7.542	7.581	HH	195072	2949329	52.25%	0.658%
84	7.609	7.581	7.638	HH	108400	3116028	55.20%	0.695%
85	7.648	7.638	7.655	HH	90538	932317	16.52%	0.208%
86	7.667	7.655	7.671	HH	90921	850929	15.07%	0.190%
87	7.687	7.671	7.709	HH	104911	2190712	38.81%	0.489%
88	7.734	7.709	7.762	HH	194453	4008674	71.01%	0.895%
89	7.779	7.762	7.801	HH	110912	2014241	35.68%	0.450%

Instrument :
FID_F
ClientSampleId :
WC-23MSD

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

90	7.824	7.801	7.833	HH	96310	1538834	27.26%	0.343%
91	7.842	7.833	7.858	HH	94946	1272295	22	
92	7.898	7.858	7.914	HH	152290	3590392	63	
93	7.928	7.914	7.963	HH	109150	2477534	43	
94	7.989	7.963	8.005	HH	123827	2343329	41	
95	8.024	8.005	8.037	HH	130899	2036581	36	
96	8.046	8.037	8.065	HH	112521	1658391	29.38%	0.370%
97	8.089	8.065	8.106	HH	118077	2414461	42.77%	0.539%
98	8.137	8.106	8.154	HH	160053	3479443	61.64%	0.777%
99	8.167	8.154	8.179	HH	127395	1689812	29.93%	0.377%
100	8.189	8.179	8.213	HH	120807	2050466	36.32%	0.458%
101	8.233	8.213	8.242	HH	157198	2049291	36.30%	0.457%
102	8.263	8.242	8.289	HH	339433	5449724	96.54%	1.216%
103	8.309	8.289	8.330	HH	111930	2368099	41.95%	0.528%
104	8.353	8.330	8.369	HH	241154	3649038	64.64%	0.814%
105	8.382	8.369	8.403	HH	177758	2727443	48.32%	0.609%
106	8.416	8.403	8.420	HH	112393	1166136	20.66%	0.260%
107	8.443	8.420	8.462	HH	372694	5287991	93.67%	1.180%
108	8.489	8.462	8.506	HH	129143	2945575	52.18%	0.657%
109	8.531	8.506	8.550	HH	133277	3141030	55.64%	0.701%
110	8.558	8.550	8.572	HH	98913	1295104	22.94%	0.289%
111	8.593	8.572	8.613	HH	229128	3569117	63.23%	0.797%
112	8.630	8.613	8.643	HH	113918	1871851	33.16%	0.418%
113	8.652	8.643	8.668	HH	110058	1531951	27.14%	0.342%
114	8.686	8.668	8.704	HH	107745	2026774	35.90%	0.452%
115	8.727	8.704	8.755	HH	99250	2670540	47.31%	0.596%
116	8.771	8.755	8.781	HH	86122	1258755	22.30%	0.281%
117	8.797	8.781	8.808	HH	128754	1785890	31.64%	0.399%
118	8.818	8.808	8.845	HH	113725	2376370	42.10%	0.530%
119	8.860	8.845	8.874	HH	107469	1727355	30.60%	0.385%
120	8.892	8.874	8.917	HH	187777	3300503	58.47%	0.737%
121	8.955	8.917	8.965	HH	138296	3286385	58.22%	0.733%
122	8.983	8.965	9.012	HH	313259	4950863	87.70%	1.105%
123	9.030	9.012	9.043	HH	98544	1647579	29.19%	0.368%
124	9.057	9.043	9.066	HH	113246	1426882	25.28%	0.318%
125	9.080	9.066	9.098	HH	131110	2107425	37.33%	0.470%
126	9.125	9.098	9.140	HH	111004	2530944	44.83%	0.565%
127	9.152	9.140	9.170	HH	97827	1600908	28.36%	0.357%
128	9.205	9.170	9.235	HH	123212	3963028	70.20%	0.884%
129	9.250	9.235	9.259	HH	144024	1816617	32.18%	0.405%
130	9.267	9.259	9.278	HH	133208	1448084	25.65%	0.323%
131	9.291	9.278	9.331	HH	157763	3346189	59.28%	0.747%
132	9.351	9.331	9.374	HH	108114	2286014	40.50%	0.510%
133	9.406	9.374	9.424	HH	135099	2901571	51.40%	0.648%
134	9.437	9.424	9.453	HH	102341	1527149	27.05%	0.341%
135	9.467	9.453	9.480	HH	82046	1238686	21.94%	0.276%
136	9.506	9.480	9.510	HH	80433	1394573	24.70%	0.311%
137	9.544	9.510	9.559	HH	129099	2958446	52.41%	0.660%
138	9.568	9.559	9.583	HH	93939	1238167	21.93%	0.276%
139	9.593	9.583	9.608	HH	78616	1130310	20.02%	0.252%
140	9.643	9.608	9.677	HH	132180	4081185	72.30%	0.911%
141	9.705	9.677	9.715	HH	124325	2248043	39.82%	0.502%

Instrument :
FID_F
ClientSampleId :
WC-23MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

142	9.721	9.715	9.750	HH	119397	2014301	35.68%	0.450%
143	9.776	9.750	9.789	HH	86118	1816469	32	
144	9.805	9.789	9.819	HH	111964	1765983	31	
145	9.830	9.819	9.849	HH	98187	1487017	26	
146	9.868	9.849	9.889	HH	71338	1637003	29	
147	9.906	9.889	9.933	HH	106264	2096476	37	
148	9.951	9.933	9.975	HH	83329	1870673	33.14%	0.417%
149	10.001	9.975	10.021	HH	107044	2426070	42.98%	0.541%
150	10.048	10.021	10.091	HH	321321	5645099	100.00%	1.260%
151	10.107	10.091	10.129	HH	73741	1634848	28.96%	0.365%
152	10.148	10.129	10.187	HH	79248	2299861	40.74%	0.513%
153	10.214	10.187	10.245	HH	78487	2256060	39.96%	0.503%
154	10.257	10.245	10.264	HH	57756	629517	11.15%	0.140%
155	10.277	10.264	10.300	HH	60046	1248210	22.11%	0.279%
156	10.318	10.300	10.344	HH	62582	1475135	26.13%	0.329%
157	10.370	10.344	10.387	HH	75857	1612400	28.56%	0.360%
158	10.394	10.387	10.405	HH	58808	631665	11.19%	0.141%
159	10.436	10.405	10.460	HH	165870	3396721	60.17%	0.758%
160	10.479	10.460	10.490	HH	80343	1288490	22.82%	0.288%
161	10.505	10.490	10.529	HH	87445	1725394	30.56%	0.385%
162	10.546	10.529	10.567	HH	84725	1598675	28.32%	0.357%
163	10.580	10.567	10.602	HH	67453	1223493	21.67%	0.273%
164	10.625	10.602	10.662	HH	71694	2261972	40.07%	0.505%
165	10.685	10.662	10.701	HH	70745	1437495	25.46%	0.321%
166	10.717	10.701	10.736	HH	68816	1335204	23.65%	0.298%
167	10.761	10.736	10.772	HH	69522	1346364	23.85%	0.300%
168	10.791	10.772	10.813	HH	78626	1663520	29.47%	0.371%
169	10.859	10.813	10.892	HH	198946	4709805	83.43%	1.051%
170	10.901	10.892	10.922	HH	62684	1079468	19.12%	0.241%
171	10.927	10.922	10.944	HH	52896	654933	11.60%	0.146%
172	10.980	10.944	11.006	HH	56703	1976064	35.00%	0.441%
173	11.025	11.006	11.056	HH	72008	1785774	31.63%	0.399%
174	11.060	11.056	11.082	HH	55847	822941	14.58%	0.184%
175	11.117	11.082	11.145	HH	59467	1998026	35.39%	0.446%
176	11.177	11.145	11.224	HH	63585	2463788	43.64%	0.550%
177	11.251	11.224	11.279	HH	51465	1602937	28.40%	0.358%
178	11.311	11.279	11.316	HH	50016	1100272	19.49%	0.246%
179	11.337	11.316	11.360	HH	61819	1421926	25.19%	0.317%
180	11.384	11.360	11.404	HH	56586	1392192	24.66%	0.311%
181	11.423	11.404	11.463	HH	57228	1917026	33.96%	0.428%
182	11.490	11.463	11.533	HH	259933	4642124	82.23%	1.036%
183	11.551	11.533	11.557	HH	60429	781520	13.84%	0.174%
184	11.580	11.557	11.607	HH	116069	2419519	42.86%	0.540%
185	11.623	11.607	11.642	HH	52513	1019494	18.06%	0.228%
186	11.647	11.642	11.662	HH	46302	537346	9.52%	0.120%
187	11.683	11.662	11.706	HH	60558	1381798	24.48%	0.308%
188	11.723	11.706	11.737	HH	46727	821272	14.55%	0.183%
189	11.761	11.737	11.780	HH	49662	1248561	22.12%	0.279%
190	11.790	11.780	11.802	HH	47550	604345	10.71%	0.135%
191	11.829	11.802	11.843	HH	61940	1281260	22.70%	0.286%
192	11.860	11.843	11.907	HH	69905	1920318	34.02%	0.429%
193	11.927	11.907	11.958	HH	48676	1349605	23.91%	0.301%
194	11.978	11.958	11.994	HH	59888	1091148	19.33%	0.244%

Instrument :
FID_F
ClientSampleId :
WC-23MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

195	12.009	11.994	12.035	HH	55920	1245813	22.07%	0.278%
196	12.041	12.035	12.069	HH	46204	843817	14	
197	12.091	12.069	12.107	HH	44959	990184	17	
198	12.136	12.107	12.159	HH	62260	1598306	28	
199	12.171	12.159	12.205	HH	48805	1219446	21	
200	12.232	12.205	12.248	HH	43586	1046198	18	
201	12.272	12.248	12.319	HH	43206	1728277	30.62%	0.386%
202	12.334	12.319	12.343	HH	40546	566893	10.04%	0.127%
203	12.365	12.343	12.385	HH	46069	1069651	18.95%	0.239%
204	12.407	12.385	12.435	HH	119076	2038631	36.11%	0.455%
205	12.447	12.435	12.465	HH	41317	731018	12.95%	0.163%
206	12.476	12.465	12.492	HH	38219	598667	10.61%	0.134%
207	12.508	12.492	12.541	HH	40151	1093383	19.37%	0.244%
208	12.573	12.541	12.602	HH	40807	1338215	23.71%	0.299%
209	12.621	12.602	12.635	HH	47116	837156	14.83%	0.187%
210	12.638	12.635	12.662	HH	42956	612486	10.85%	0.137%
211	12.669	12.662	12.677	HH	34195	297252	5.27%	0.066%
212	12.728	12.677	12.750	HH	60047	1860619	32.96%	0.415%
213	12.765	12.750	12.773	HH	43486	563103	9.98%	0.126%
214	12.798	12.773	12.826	HH	240869	3476633	61.59%	0.776%
215	12.843	12.826	12.892	HH	39655	1354460	23.99%	0.302%
216	12.902	12.892	12.924	HH	30067	550199	9.75%	0.123%
217	12.943	12.924	12.957	HH	31696	597831	10.59%	0.133%
218	12.972	12.957	13.000	HH	31964	761483	13.49%	0.170%
219	13.004	13.000	13.015	HH	27000	224522	3.98%	0.050%
220	13.039	13.015	13.055	HH	29253	678721	12.02%	0.151%
221	13.066	13.055	13.071	HH	27734	267014	4.73%	0.060%
222	13.082	13.071	13.115	HH	28253	717178	12.70%	0.160%
223	13.140	13.115	13.195	HH	43413	1416173	25.09%	0.316%
224	13.212	13.195	13.226	HH	28353	496940	8.80%	0.111%
225	13.239	13.226	13.265	HH	26582	609446	10.80%	0.136%
226	13.292	13.265	13.340	HH	32865	1277452	22.63%	0.285%
227	13.352	13.340	13.372	HH	26571	487384	8.63%	0.109%
228	13.376	13.372	13.389	HH	22867	227638	4.03%	0.051%
229	13.425	13.389	13.455	HH	33176	1093042	19.36%	0.244%
230	13.475	13.455	13.520	HH	37527	1080293	19.14%	0.241%
231	13.539	13.520	13.554	HH	28445	518488	9.18%	0.116%
232	13.570	13.554	13.595	HH	28178	627397	11.11%	0.140%
233	13.635	13.595	13.680	HH	42055	1383914	24.52%	0.309%
234	13.691	13.680	13.709	HH	23365	387248	6.86%	0.086%
235	13.727	13.709	13.757	HH	25376	666490	11.81%	0.149%
236	13.762	13.757	13.802	HH	21067	539777	9.56%	0.120%
237	13.808	13.802	13.816	HH	18983	161363	2.86%	0.036%
238	13.843	13.816	13.859	HH	22578	531019	9.41%	0.119%
239	13.877	13.859	13.895	HH	28059	529412	9.38%	0.118%
240	13.918	13.895	13.950	HH	22596	699434	12.39%	0.156%
241	13.955	13.950	13.965	HH	19379	172316	3.05%	0.038%
242	13.995	13.965	14.026	HH	213804	3125768	55.37%	0.698%
243	14.045	14.026	14.067	HH	25429	535281	9.48%	0.119%
244	14.086	14.067	14.092	HH	18779	277420	4.91%	0.062%
245	14.098	14.092	14.133	HH	18590	444326	7.87%	0.099%
246	14.140	14.133	14.164	HH	17859	311437	5.52%	0.070%

Instrument :
FID_F
ClientSampleId :
WC-23MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

247	14.200	14.164	14.224	HH	18167	620314	10.99%	0.138%
248	14.231	14.224	14.260	HH	17588	368143	6	
249	14.295	14.260	14.309	HH	17475	491044	8	
250	14.319	14.309	14.328	HH	16652	189469	3	
251	14.349	14.328	14.366	HH	19956	409856	7	
252	14.382	14.366	14.410	HH	18792	467145	8	
253	14.448	14.410	14.454	HH	17668	446398	7.91%	0.100%
254	14.463	14.454	14.479	HH	17921	258185	4.57%	0.058%
255	14.493	14.479	14.522	HH	17117	424363	7.52%	0.095%
256	14.562	14.522	14.606	HH	19213	856666	15.18%	0.191%
257	14.671	14.606	14.691	HH	20596	875415	15.51%	0.195%
258	14.707	14.691	14.726	HH	20684	385819	6.83%	0.086%
259	14.738	14.726	14.767	HH	17551	394459	6.99%	0.088%
260	14.798	14.767	14.804	HH	15998	336062	5.95%	0.075%
261	14.828	14.804	14.853	HH	17870	485024	8.59%	0.108%
262	14.893	14.853	14.931	HH	106079	1945722	34.47%	0.434%
263	14.938	14.931	14.959	HH	15061	242829	4.30%	0.054%
264	14.971	14.959	14.981	HH	14907	194079	3.44%	0.043%
265	14.996	14.981	15.009	HH	15297	253133	4.48%	0.056%
266	15.022	15.009	15.043	HH	15926	306585	5.43%	0.068%
267	15.062	15.043	15.067	HH	16853	219250	3.88%	0.049%
268	15.097	15.067	15.152	HH	191613	3043244	53.91%	0.679%
269	15.173	15.152	15.199	HH	16580	438414	7.77%	0.098%
270	15.219	15.199	15.250	HH	16113	473545	8.39%	0.106%
271	15.257	15.250	15.281	HH	15231	272477	4.83%	0.061%
272	15.299	15.281	15.307	HH	14750	224938	3.98%	0.050%
273	15.324	15.307	15.367	HH	16532	537573	9.52%	0.120%
274	15.375	15.367	15.389	HH	13946	177411	3.14%	0.040%
275	15.393	15.389	15.399	HH	13693	85562	1.52%	0.019%
276	15.405	15.399	15.410	HH	13674	85919	1.52%	0.019%
277	15.470	15.410	15.522	HH	54888	1552146	27.50%	0.346%
278	15.530	15.522	15.559	HH	15730	319638	5.66%	0.071%
279	15.565	15.559	15.574	HH	13671	125140	2.22%	0.028%
280	15.578	15.574	15.584	HH	13633	79026	1.40%	0.018%
281	15.615	15.584	15.639	HH	16863	507407	8.99%	0.113%
282	15.651	15.639	15.662	HH	15037	204434	3.62%	0.046%
283	15.693	15.662	15.717	HH	17460	529175	9.37%	0.118%
284	15.734	15.717	15.761	HH	16516	398038	7.05%	0.089%
285	15.765	15.761	15.770	HH	13976	75803	1.34%	0.017%
286	15.779	15.770	15.784	HH	14142	117087	2.07%	0.026%
287	15.847	15.784	15.852	HH	16271	621498	11.01%	0.139%
288	15.859	15.852	15.892	HH	16073	370714	6.57%	0.083%
289	15.926	15.892	15.949	HH	16282	519275	9.20%	0.116%
290	15.954	15.949	15.963	HH	14809	126699	2.24%	0.028%
291	15.989	15.963	16.007	HH	16141	408112	7.23%	0.091%
292	16.010	16.007	16.015	HH	15034	72659	1.29%	0.016%
293	16.021	16.015	16.034	HH	15108	165976	2.94%	0.037%
294	16.055	16.034	16.082	HH	15536	434275	7.69%	0.097%
295	16.117	16.082	16.154	HH	187381	2902282	51.41%	0.648%
296	16.161	16.154	16.175	HH	15502	198218	3.51%	0.044%
297	16.180	16.175	16.183	HH	15299	70805	1.25%	0.016%
298	16.198	16.183	16.215	HH	15662	293107	5.19%	0.065%
299	16.230	16.215	16.252	HH	15140	329010	5.83%	0.073%

Instrument :
FID_F
ClientSampleId :
WC-23MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2024
Supervised By :Ankita Jodhani 09/20/2024

rteres

300	16.296	16.252	16.302	HH	17599	479513	8.49%	0.107%
301	16.310	16.302	16.335	HH	17441	330447	5	
302	16.341	16.335	16.357	HH	16342	215569	3	
303	16.401	16.357	16.422	HH	17697	644032	11	
304	16.448	16.422	16.459	HH	17178	374815	6	
305	16.485	16.459	16.524	HH	21212	723843	12	
306	16.544	16.524	16.548	HH	16914	242963	4.30%	0.054%
307	16.580	16.548	16.592	HH	19311	473799	8.39%	0.106%
308	16.597	16.592	16.625	HH	19452	371503	6.58%	0.083%
309	16.635	16.625	16.652	HH	17095	266504	4.72%	0.059%
310	16.677	16.652	16.693	HH	18134	427500	7.57%	0.095%
311	16.711	16.693	16.715	HH	17943	228565	4.05%	0.051%
312	16.723	16.715	16.734	HH	18337	205360	3.64%	0.046%
313	16.738	16.734	16.779	HH	18018	483001	8.56%	0.108%
314	16.809	16.779	16.814	HH	18099	374601	6.64%	0.084%
315	16.817	16.814	16.822	HH	17932	84406	1.50%	0.019%
316	16.857	16.822	16.884	HH	19847	705162	12.49%	0.157%
317	16.898	16.884	16.924	HH	21376	477511	8.46%	0.107%
318	16.929	16.924	16.933	HH	18847	108647	1.92%	0.024%
319	16.958	16.933	16.983	HH	20922	580369	10.28%	0.130%
320	16.990	16.983	16.998	HH	19020	166738	2.95%	0.037%
321	17.066	16.998	17.097	HH	180423	3385980	59.98%	0.756%
322	17.111	17.097	17.134	HH	24118	490697	8.69%	0.110%
323	17.141	17.134	17.145	HH	20315	124698	2.21%	0.028%
324	17.150	17.145	17.174	HH	20306	346774	6.14%	0.077%
325	17.187	17.174	17.200	HHA	20062	327075	5.79%	0.073%

Sum of corrected areas: 448081966

FF091124.M Fri Sep 20 03:30:57 2024

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

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
5 TRPH STD		FF014484.D	FF091124	N-OCTATRIACONTANE	Ankita	9/11/2024 11:26:07 AM	Peak Integrated by Software incorrectly
5 TRPH STD		FF014484.D	FF091124	N-TETRACONTANE	Ankita	9/11/2024 11:26:07 AM	Peak Integrated by Software incorrectly

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

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P4103-01		FF014531.D	FF091924	TETRACOSANE-d50 (SURROGA	Ankita	9/20/2024 8:47:47 AM	Peak Integrated by Software incorrectly
P4103-04		FF014532.D	FF091924	TETRACOSANE-d50 (SURROGA	Ankita	9/20/2024 8:47:48 AM	Peak Integrated by Software incorrectly
P4103-16MS		FF014541.D	FF091924	N-DODECANE	Ankita	9/20/2024 8:47:51 AM	Peak Integrated by Software incorrectly
P4103-16MS		FF014541.D	FF091924	N-EICOSANE	Ankita	9/20/2024 8:47:51 AM	Peak Integrated by Software incorrectly
P4103-16MS		FF014541.D	FF091924	N-HEXADECANE	Ankita	9/20/2024 8:47:51 AM	Peak Integrated by Software incorrectly
P4103-16MS		FF014541.D	FF091924	N-OCTADECANE	Ankita	9/20/2024 8:47:51 AM	Peak Integrated by Software incorrectly
P4103-16MS		FF014541.D	FF091924	N-TETRADECANE	Ankita	9/20/2024 8:47:51 AM	Peak Integrated by Software incorrectly
P4103-16MSD		FF014542.D	FF091924	N-DODECANE	Ankita	9/20/2024 8:47:52 AM	Peak Integrated by Software incorrectly
P4103-16MSD		FF014542.D	FF091924	N-EICOSANE	Ankita	9/20/2024 8:47:52 AM	Peak Integrated by Software incorrectly
P4103-16MSD		FF014542.D	FF091924	N-HEXADECANE	Ankita	9/20/2024 8:47:52 AM	Peak Integrated by Software incorrectly
P4103-16MSD		FF014542.D	FF091924	N-OCTADECANE	Ankita	9/20/2024 8:47:52 AM	Peak Integrated by Software incorrectly
P4103-16MSD		FF014542.D	FF091924	N-TETRADECANE	Ankita	9/20/2024 8:47:52 AM	Peak Integrated by Software incorrectly
P4103-07		FF014545.D	FF091924	TETRACOSANE-d50 (SURROGA	Ankita	9/20/2024 8:47:54 AM	Peak Integrated by Software incorrectly

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

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P4103-13		FF014555.D	FF092024	TETRACOSANE-d50 (SURROGA	Ankita	9/23/2024 10:11:43 AM	Peak Integrated by Software incorrectly
P4127-01MS		FF014562.D	FF092024	N-HEXATRIACONTANE	Ankita	9/23/2024 10:11:44 AM	Peak Integrated by Software incorrectly
P4127-01MS		FF014562.D	FF092024	N-OCTATRIACONTANE	Ankita	9/23/2024 10:11:44 AM	Peak Integrated by Software incorrectly
P4127-01MS		FF014562.D	FF092024	N-TETRATRIACONTANE	Ankita	9/23/2024 10:11:44 AM	Peak Integrated by Software incorrectly
P4127-01MSD		FF014563.D	FF092024	N-HEXATRIACONTANE	Ankita	9/23/2024 10:11:45 AM	Peak Integrated by Software incorrectly

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF091124

Review By	yogesh	Review On	9/10/2024 4:05:48 PM		
Supervise By	Ankita	Supervise On	9/11/2024 11:26:14 AM		
SubDirectory	FF091124	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF014478.D	10 Sep 2024 12:39	YP\AJ	Ok
2	I.BLK	FF014479.D	10 Sep 2024 13:08	YP\AJ	Ok
3	100 TRPH STD	FF014480.D	10 Sep 2024 13:37	YP\AJ	Not Ok
4	50 TRPH STD	FF014481.D	10 Sep 2024 14:07	YP\AJ	Ok
5	20 TRPH STD	FF014482.D	10 Sep 2024 14:36	YP\AJ	Ok
6	10 TRPH STD	FF014483.D	10 Sep 2024 15:05	YP\AJ	Ok
7	5 TRPH STD	FF014484.D	10 Sep 2024 15:35	YP\AJ	Ok,M
8	100 TRPH STD	FF014485.D	10 Sep 2024 16:04	YP\AJ	Ok
9	FF091124ICV	FF014486.D	10 Sep 2024 16:33	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF091924

Review By	yogesh	Review On	9/19/2024 1:57:34 PM		
Supervise By	Ankita	Supervise On	9/20/2024 8:48:01 AM		
SubDirectory	FF091924	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF014527.D	19 Sep 2024 06:13	YP\AJ	Ok
2	I.BLK	FF014528.D	19 Sep 2024 12:36	YP\AJ	Ok
3	50 PPM TRPH STD	FF014529.D	19 Sep 2024 13:37	YP\AJ	Ok
4	RT MARKER	FF014530.D	19 Sep 2024 14:06	YP\AJ	Ok
5	P4103-01	FF014531.D	19 Sep 2024 14:36	YP\AJ	Dilution
6	P4103-04	FF014532.D	19 Sep 2024 15:05	YP\AJ	Dilution
7	P4103-07	FF014533.D	19 Sep 2024 15:34	YP\AJ	Dilution
8	P4103-10	FF014534.D	19 Sep 2024 16:03	YP\AJ	Dilution
9	P4103-13	FF014535.D	19 Sep 2024 16:33	YP\AJ	Dilution
10	I.BLK	FF014536.D	19 Sep 2024 17:02	YP\AJ	Ok
11	50 PPM TRPH STD	FF014537.D	19 Sep 2024 18:00	YP\AJ	Ok
12	PB163522BL	FF014538.D	19 Sep 2024 19:28	YP\AJ	Ok
13	PB163522BS	FF014539.D	19 Sep 2024 19:58	YP\AJ	Ok
14	P4103-16	FF014540.D	19 Sep 2024 20:27	YP\AJ	Dilution
15	P4103-16MS	FF014541.D	19 Sep 2024 20:56	YP\AJ	Ok,M
16	P4103-16MSD	FF014542.D	19 Sep 2024 21:25	YP\AJ	Ok,M
17	P4103-01	FF014543.D	19 Sep 2024 21:55	YP\AJ	Ok
18	P4103-04	FF014544.D	19 Sep 2024 22:24	YP\AJ	Ok
19	P4103-07	FF014545.D	19 Sep 2024 22:53	YP\AJ	Ok,M
20	P4103-10	FF014546.D	19 Sep 2024 23:22	YP\AJ	Ok
21	P4103-13	FF014547.D	19 Sep 2024 23:52	YP\AJ	Not Ok

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF091924

Review By	yogesh	Review On	9/19/2024 1:57:34 PM		
Supervise By	Ankita	Supervise On	9/20/2024 8:48:01 AM		
SubDirectory	FF091924	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4103-16	FF014548.D	20 Sep 2024 00:21	YP\AJ	Ok
23	I.BLK	FF014549.D	20 Sep 2024 00:50	YP\AJ	Ok
24	50 PPM TRPH STD	FF014550.D	20 Sep 2024 01:49	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092024

Review By	yogesh	Review On	9/20/2024 12:18:14 PM		
Supervise By	Ankita	Supervise On	9/23/2024 10:11:51 AM		
SubDirectory	FF092024	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF014551.D	20 Sep 2024 07:00	YP\AJ	Ok
2	I.BLK	FF014552.D	20 Sep 2024 07:29	YP\AJ	Ok
3	50 PPM TRPH STD	FF014553.D	20 Sep 2024 07:58	YP\AJ	Ok
4	RT MARKER	FF014554.D	20 Sep 2024 08:34	YP\AJ	Ok
5	P4103-13	FF014555.D	20 Sep 2024 09:03	YP\AJ	Ok,M
6	I.BLK	FF014556.D	20 Sep 2024 09:40	YP\AJ	Ok
7	50 PPM TRPH STD	FF014557.D	20 Sep 2024 10:09	YP\AJ	Ok
8	I.BLK	FF014558.D	20 Sep 2024 12:06	YP\AJ	Ok
9	50 PPM TRPH STD	FF014559.D	20 Sep 2024 12:35	YP\AJ	Ok
10	RT MARKER	FF014560.D	20 Sep 2024 13:04	YP\AJ	Ok
11	P4127-01	FF014561.D	20 Sep 2024 15:01	YP\AJ	Ok
12	P4127-01MS	FF014562.D	20 Sep 2024 15:31	YP\AJ	Ok,M
13	P4127-01MSD	FF014563.D	20 Sep 2024 16:00	YP\AJ	Ok,M
14	PB163577BL	FF014564.D	20 Sep 2024 16:29	YP\AJ	Ok
15	PB163577BS	FF014565.D	20 Sep 2024 16:58	YP\AJ	Ok
16	I.BLK	FF014566.D	20 Sep 2024 17:28	YP\AJ	Ok
17	50 PPM TRPH STD	FF014567.D	20 Sep 2024 17:57	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF091124

Review By	yogesh	Review On	9/10/2024 4:05:48 PM		
Supervise By	Ankita	Supervise On	9/11/2024 11:26:14 AM		
SubDirectory	FF091124	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF014478.D	10 Sep 2024 12:39		YP\AJ	Ok
2	I.BLK		FF014479.D	10 Sep 2024 13:08		YP\AJ	Ok
3	100 TRPH STD		FF014480.D	10 Sep 2024 13:37	Not use	YP\AJ	Not Ok
4	50 TRPH STD		FF014481.D	10 Sep 2024 14:07		YP\AJ	Ok
5	20 TRPH STD		FF014482.D	10 Sep 2024 14:36		YP\AJ	Ok
6	10 TRPH STD		FF014483.D	10 Sep 2024 15:05		YP\AJ	Ok
7	5 TRPH STD		FF014484.D	10 Sep 2024 15:35		YP\AJ	Ok,M
8	100 TRPH STD		FF014485.D	10 Sep 2024 16:04		YP\AJ	Ok
9	FF091124ICV		FF014486.D	10 Sep 2024 16:33		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF091924

Review By	yogesh	Review On	9/19/2024 1:57:34 PM		
Supervise By	Ankita	Supervise On	9/20/2024 8:48:01 AM		
SubDirectory	FF091924	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF014527.D	19 Sep 2024 06:13		YP\AJ	Ok
2	I.BLK		FF014528.D	19 Sep 2024 12:36		YP\AJ	Ok
3	50 PPM TRPH STD		FF014529.D	19 Sep 2024 13:37		YP\AJ	Ok
4	RT MARKER		FF014530.D	19 Sep 2024 14:06		YP\AJ	Ok
5	P4103-01		FF014531.D	19 Sep 2024 14:36	need 200x	YP\AJ	Dilution
6	P4103-04		FF014532.D	19 Sep 2024 15:05	need 50x	YP\AJ	Dilution
7	P4103-07		FF014533.D	19 Sep 2024 15:34	need 25x	YP\AJ	Dilution
8	P4103-10		FF014534.D	19 Sep 2024 16:03	need 100x	YP\AJ	Dilution
9	P4103-13		FF014535.D	19 Sep 2024 16:33	need 25x	YP\AJ	Dilution
10	I.BLK		FF014536.D	19 Sep 2024 17:02		YP\AJ	Ok
11	50 PPM TRPH STD		FF014537.D	19 Sep 2024 18:00		YP\AJ	Ok
12	PB163522BL		FF014538.D	19 Sep 2024 19:28		YP\AJ	Ok
13	PB163522BS		FF014539.D	19 Sep 2024 19:58		YP\AJ	Ok
14	P4103-16		FF014540.D	19 Sep 2024 20:27	need 50x	YP\AJ	Dilution
15	P4103-16MS		FF014541.D	19 Sep 2024 20:56		YP\AJ	Ok,M
16	P4103-16MSD		FF014542.D	19 Sep 2024 21:25		YP\AJ	Ok,M
17	P4103-01		FF014543.D	19 Sep 2024 21:55		YP\AJ	Ok
18	P4103-04		FF014544.D	19 Sep 2024 22:24		YP\AJ	Ok

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF091924

Review By	yogesh	Review On	9/19/2024 1:57:34 PM		
Supervise By	Ankita	Supervise On	9/20/2024 8:48:01 AM		
SubDirectory	FF091924	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4103-07		FF014545.D	19 Sep 2024 22:53		YP\AJ	Ok,M
20	P4103-10		FF014546.D	19 Sep 2024 23:22		YP\AJ	Ok
21	P4103-13		FF014547.D	19 Sep 2024 23:52	Need lower dilution	YP\AJ	Not Ok
22	P4103-16		FF014548.D	20 Sep 2024 00:21		YP\AJ	Ok
23	I.BLK		FF014549.D	20 Sep 2024 00:50		YP\AJ	Ok
24	50 PPM TRPH STD		FF014550.D	20 Sep 2024 01:49		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092024

Review By	yogesh	Review On	9/20/2024 12:18:14 PM		
Supervise By	Ankita	Supervise On	9/23/2024 10:11:51 AM		
SubDirectory	FF092024	HP Acquire Method		HP Processing Method	FF091124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF014551.D	20 Sep 2024 07:00		YP\AJ	Ok
2	I.BLK		FF014552.D	20 Sep 2024 07:29		YP\AJ	Ok
3	50 PPM TRPH STD		FF014553.D	20 Sep 2024 07:58		YP\AJ	Ok
4	RT MARKER		FF014554.D	20 Sep 2024 08:34		YP\AJ	Ok
5	P4103-13		FF014555.D	20 Sep 2024 09:03		YP\AJ	Ok,M
6	I.BLK		FF014556.D	20 Sep 2024 09:40		YP\AJ	Ok
7	50 PPM TRPH STD		FF014557.D	20 Sep 2024 10:09		YP\AJ	Ok
8	I.BLK		FF014558.D	20 Sep 2024 12:06		YP\AJ	Ok
9	50 PPM TRPH STD		FF014559.D	20 Sep 2024 12:35		YP\AJ	Ok
10	RT MARKER		FF014560.D	20 Sep 2024 13:04		YP\AJ	Ok
11	P4127-01		FF014561.D	20 Sep 2024 15:01		YP\AJ	Ok
12	P4127-01MS		FF014562.D	20 Sep 2024 15:31		YP\AJ	Ok,M
13	P4127-01MSD		FF014563.D	20 Sep 2024 16:00		YP\AJ	Ok,M
14	PB163577BL		FF014564.D	20 Sep 2024 16:29		YP\AJ	Ok
15	PB163577BS		FF014565.D	20 Sep 2024 16:58		YP\AJ	Ok
16	I.BLK		FF014566.D	20 Sep 2024 17:28		YP\AJ	Ok
17	50 PPM TRPH STD		FF014567.D	20 Sep 2024 17:57		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: sohil
Analyst: jignesh
Date: 9/20/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 09/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 09/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132510

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
P4024-01	DDCD5	1	1.12	8.67	9.79	8.58	86.0	
P4024-02	DDCD5MS	2	1.12	8.67	9.79	8.58	86.0	
P4024-03	DDCD5MSD	3	1.12	8.67	9.79	8.58	86.0	
P4024-04	VHBLK001	4	1.00	1.00	2.00	2.00	100.0	vhblk
P4024-05	DDC36	5	1.16	8.40	9.56	7.77	78.7	
P4024-06	DDCL2	6	1.15	8.66	9.81	8.33	82.9	
P4103-01	WC-22A	7	1.18	8.49	9.67	9.05	92.7	
P4103-04	WC-14-5-7.5A	8	1.15	8.76	9.91	9.02	89.8	
P4103-07	WC-14-5-7.5B	9	1.14	8.83	9.97	9.1	90.1	
P4103-10	WC-14-7.5-10A	10	1.18	8.75	9.93	8.66	85.5	
P4103-13	WC-14-7.5-10B	11	1.14	8.42	9.56	8.56	88.1	
P4103-16	WC-23	12	1.15	8.73	9.88	8.66	86.0	
P4104-01	WC-14-5-7.5A-EPH-1	13	1.19	8.72	9.91	9.1	90.7	
P4104-02	WC-14-5-7.5A-EPH-2	14	1.17	8.61	9.78	8.95	90.4	
P4104-03	WC-14-5-7.5A-EPH-3	15	1.15	8.40	9.55	8.84	91.5	
P4104-04	WC-14-5-7.5A-EPH-4	16	1.12	8.84	9.96	8.48	83.3	
P4104-06	WC-14-5-7.5B-EPH-1	17	1.18	8.77	9.95	9.05	89.7	
P4104-07	WC-14-5-7.5B-EPH-2	18	1.15	8.62	9.77	8.87	89.6	
P4104-08	WC-14-5-7.5B-EPH-3	19	1.13	8.70	9.83	8.85	88.7	
P4104-09	WC-14-5-7.5B-EPH-4	20	1.15	8.82	9.97	8.91	88.0	
P4104-10	WC-14-5-7.5B-EPH-5	21	1.15	8.83	9.98	9.00	88.9	
P4104-11	WC-14-7.5-10A-EPH-1	22	1.15	8.80	9.95	9.19	91.4	
P4104-12	WC-14-7.5-10A-EPH-2	23	1.15	8.76	9.91	8.66	85.7	
P4104-13	WC-14-7.5-10A-EPH-3	24	1.15	8.81	9.96	9.12	90.5	
P4104-14	WC-14-7.5-10A-EPH-4	25	1.19	8.65	9.84	8.8	88.0	
P4104-15	WC-14-7.5-10A-EPH-5	26	1.15	8.41	9.56	8.7	89.8	
P4104-16	WC-14-7.5-10B-EPH-1	27	1.18	8.64	9.82	8.66	86.6	
P4104-17	WC-14-7.5-10B-EPH-2	28	1.15	8.83	9.98	8.75	86.1	

PERCENT SOLID

Supervisor: sohil
Analyst: jignesh
Date: 9/20/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 09/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 09/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132510

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
P4104-18	WC-14-7.5-10B-EPH-3	29	1.15	8.82	9.97	8.93	88.2	
P4104-19	WC-14-7.5-10B-EPH-4	30	1.19	8.57	9.76	8.76	88.3	
P4104-20	WC-14-7.5-10B-EPH-5	31	1.16	8.61	9.77	8.81	88.9	
P4104-21	WC-22A-EPH-1	32	1.15	8.81	9.96	9.44	94.1	
P4104-22	WC-22A-EPH-2	33	1.18	8.50	9.68	8.41	85.1	
P4104-23	WC-22A-EPH-3	34	1.12	8.66	9.78	9.21	93.4	
P4104-24	WC-22A-EPH-4	35	1.16	8.67	9.83	9.2	92.7	
P4104-25	WC-22A-EPH-5	36	1.16	8.70	9.86	9.24	92.9	
P4104-26	WC-23-EPH-1	37	1.17	8.56	9.73	8.72	88.2	
P4104-27	WC-23-EPH-2	38	1.15	8.83	9.98	9.00	88.9	
P4104-28	WC-23-EPH-3	39	1.15	8.81	9.96	8.65	85.1	
P4104-29	WC-23-EPH-4	40	1.15	8.37	9.52	8.56	88.5	
P4104-30	WC-23-EPH-5	41	1.16	8.61	9.77	8.63	86.8	
P4117-01	MOO-SOIL-PILE	42	1.18	8.68	9.86	8.86	88.5	
P4119-01	TRANSFOMER-OIL	43	1.00	1.00	2.00	2.00	100.0	oil sample
P4119-03	OILY-DEBRIS	44	1.00	1.00	2.00	2.00	100.0	oily-debris
P4120-01	T1	45	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4120-03	T2	46	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4120-05	SF-6-A	47	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4120-07	SF-6-B	48	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4120-09	COMP-1	49	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4120-11	COMP-2	50	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4120-13	RB24085	51	1.13	8.82	9.95	4.23	35.1	GEL MARTIX
P4121-01	COMP-1	52	1.13	8.51	9.64	7.12	70.4	
P4121-02	COMP-2	53	1.00	1.00	2.00	2.00	100.0	debris
P4121-03	ELZ-24-00090	54	1.00	1.00	2.00	2.00	100.0	oil sample
P4122-01	FDH013Y-1-1	55	1.00	1.00	2.00	2.00	100.0	pilc
P4122-02	FDH013Y-1-2	56	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: sohil
Analyst: jignesh
Date: 9/20/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 09/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 09/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132510

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
P4122-03	FDH013Y-2-1	57	1.00	1.00	2.00	2.00	100.0	pilc
P4122-04	FDH013Y-2-2	58	1.00	1.00	2.00	2.00	100.0	pilc
P4123-01	910-B	59	1.13	8.80	9.93	6.38	59.7	
P4123-02	613-D	60	1.00	1.00	2.00	2.00	100.0	debris
P4124-01	2049	61	1.00	1.00	2.00	2.00	100.0	wipe sample
P4124-02	2050	62	1.00	1.00	2.00	2.00	100.0	wipe sample
P4125-01	PL-01-09192024	63	1.15	8.68	9.83	9.53	96.5	
P4125-02	PL-01-09192024-E2	64	1.16	8.44	9.6	9.36	97.2	
P4126-01	NB-08-09192024	65	1.18	8.52	9.7	9.37	96.1	
P4126-02	NB-08-09192024-E2	66	1.11	8.85	9.96	9.27	92.2	

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

WORKLIST(Hardcopy Internal Chain)

132510

WorkList Name : %1-091924 **WorkList ID :** 183634 **Department :** Wet-Chemistry **Date :** 09-19-2024 08:44:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4024-01	DDCD5	Solid	Percent Solids	Cool 4 deg C	USEP04	VS-1	09/09/2024	Chemtech -SO
P4024-02	DDCD5MS	Solid	Percent Solids	Cool 4 deg C	USEP04	VS-1	09/09/2024	Chemtech -SO
P4024-03	DDCD5MSD	Solid	Percent Solids	Cool 4 deg C	USEP04	VS-1	09/09/2024	Chemtech -SO
P4024-04	VHBLK001	Solid	Percent Solids	Cool 4 deg C	USEP04	VS-1	09/14/2024	Chemtech -SO
P4024-05	DDC36	Solid	Percent Solids	Cool 4 deg C	USEP04	VS-1	09/06/2024	Chemtech -SO
P4024-06	DDCL2	Solid	Percent Solids	Cool 4 deg C	USEP04	VS-1	09/10/2024	Chemtech -SO
P4103-01	WC-22A	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4103-04	WC-14-5-7.5A	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4103-07	WC-14-5-7.5B	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4103-10	WC-14-7.5-10A	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4103-13	WC-14-7.5-10B	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4103-16	WC-23	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-01	WC-14-5-7.5A-EPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-02	WC-14-5-7.5A-EPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-03	WC-14-5-7.5A-EPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-04	WC-14-5-7.5A-EPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-06	WC-14-5-7.5B-EPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-07	WC-14-5-7.5B-EPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-08	WC-14-5-7.5B-EPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-09	WC-14-5-7.5B-EPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-10	WC-14-5-7.5B-EPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO

Date/Time 09-19-24 15:30

Raw Sample Received by: JD GeoC,

Raw Sample Relinquished by: T-C (Son)

Date/Time 09-19-24 17:25

Raw Sample Received by: T-C (Son)

Raw Sample Relinquished by: JD GeoC,

WORKLIST(Hardcopy Internal Chain)

VB132510

WorkList Name : %1-091924 **WorkList ID :** 183634 **Department :** Wet-Chemistry **Date :** 09-19-2024 08:44:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4104-11	WC-14-7.5-10A-EPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-12	WC-14-7.5-10A-EPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-13	WC-14-7.5-10A-EPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-14	WC-14-7.5-10A-EPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-15	WC-14-7.5-10A-EPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-16	WC-14-7.5-10B-EPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-17	WC-14-7.5-10B-EPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-18	WC-14-7.5-10B-EPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-19	WC-14-7.5-10B-EPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-20	WC-14-7.5-10B-EPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-21	WC-22A-EPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-22	WC-22A-EPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-23	WC-22A-EPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-24	WC-22A-EPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-25	WC-22A-EPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-26	WC-23-EPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-27	WC-23-EPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-28	WC-23-EPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-29	WC-23-EPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4104-30	WC-23-EPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	J11	09/17/2024	Chemtech -SO
P4117-01	MOO-SOIL-PILE	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	08/23/2024	Chemtech -SO

Date/Time 09-19-24 15:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 09.19.24 17:25

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

VB 132510

WorkList Name : %1-091924 **WorkList ID :** 183634 **Department :** Wet-Chemistry **Date :** 09-19-2024 08:44:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4119-01	TRANSFOMER-OIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	J12	09/19/2024	Chemtech -SO
P4119-03	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	PSEG03	J12	09/19/2024	Chemtech -SO
P4120-01	T1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4120-03	T2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4120-05	SF-6-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4120-07	SF-6-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4120-09	COMP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4120-11	COMP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4120-13	RB24085	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4121-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4121-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4121-03	ELZ-24-00090	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4122-01	FDH013Y-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4122-02	FDH013Y-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4122-03	FDH013Y-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4122-04	FDH013Y-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J13	09/19/2024	Chemtech -SO
P4123-01	910-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	J21	09/19/2024	Chemtech -SO
P4123-02	613-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	J21	09/19/2024	Chemtech -SO
P4124-01	2049	Solid	Percent Solids	Cool 4 deg C	PSEG03	J21	09/19/2024	Chemtech -SO
P4124-02	2050	Solid	Percent Solids	Cool 4 deg C	PSEG03	J21	09/19/2024	Chemtech -SO
P4125-01	PL-01-09192024	Solid	Percent Solids	Cool 4 deg C	PSEG05	J21	09/19/2024	Chemtech -SO

Date/Time 09-19-24 1530

Raw Sample Received by: SO CWC

Raw Sample Relinquished by: R.C Sm

Date/Time 09-19-24 1725

Raw Sample Received by: R.C Sm

Raw Sample Relinquished by: SO CWC

WORKLIST(Hardcopy Internal Chain)

NB 132510

WorkList Name : %1-091924 **WorkList ID :** 183634 **Department :** Wet-Chemistry **Date :** 09-19-2024 08:44:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4125-02	PL-01-09192024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	J21	09/19/2024	Chemtech -SO
P4126-01	NB-08-09192024	Solid	Percent Solids	Cool 4 deg C	PSEG05	J21	09/19/2024	Chemtech -SO
P4126-02	NB-08-09192024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	J21	09/19/2024	Chemtech -SO

Date/Time 09-19-24 15:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 09-19-24 17:25

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB163522

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	09/19/2024
Matrix :	Solid			**Extraction Start Time :**	11:09
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	09/19/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	14:10
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP23454
Surrogate	1.0ML	20 PPM	PP23518
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	EP2538
Baked Na2SO4	N/A	EP2540
Sand	N/A	E2865
Methylene Chloride	N/A	E3792
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
09/19/24	RP (Ext lab)	Y.P. post IPB.
14:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB163522

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 09/19/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB163522BL	PB163522BL	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			U1-1
PB163522BS	PB163522BS	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			2
P4103-01	WC-22A	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		3
P4103-04	WC-14-5-7.5A	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	E		4
P4103-07	WC-14-5-7.5B	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	E		5
P4103-10	WC-14-7.5-10A	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		6
P4103-13	WC-14-7.5-10B	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	E		U4-1
P4103-16	WC-23	Diesel Range Organics	30.10	N/A	ritesh	Evelyn	1	E		2
P4103-16MS	WC-23MS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		3
P4103-16MSD	WC-23MSD	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		4

9/19/24

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

JR
11:09

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4103 **WorkList ID :** 183640 **Department :** Extraction **Date :** 09-19-2024 10:59:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4099-01	GAS-TRANSMISSION-DEBRIS	Solid	PCB	Cool 4 deg C	PSEG03	H53	09/18/2024	8082A
P4103-01	WC-22A	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	J11	09/17/2024	8015D
P4103-01	WC-22A	Solid	PCB	Cool 4 deg C	ENTA05	J11	09/17/2024	8082A
P4103-01	WC-22A	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ENTA05	J11	09/17/2024	8270E
P4103-04	WC-14-5-7.5A	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	J11	09/17/2024	8015D
P4103-04	WC-14-5-7.5A	Solid	PCB	Cool 4 deg C	ENTA05	J11	09/17/2024	8082A
P4103-04	WC-14-5-7.5A	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ENTA05	J11	09/17/2024	8270E
P4103-07	WC-14-5-7.5B	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	J11	09/17/2024	8015D
P4103-07	WC-14-5-7.5B	Solid	PCB	Cool 4 deg C	ENTA05	J11	09/17/2024	8082A
P4103-07	WC-14-5-7.5B	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ENTA05	J11	09/17/2024	8270E
P4103-10	WC-14-7.5-10A	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	J11	09/17/2024	8015D
P4103-10	WC-14-7.5-10A	Solid	PCB	Cool 4 deg C	ENTA05	J11	09/17/2024	8082A
P4103-10	WC-14-7.5-10A	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ENTA05	J11	09/17/2024	8270E
P4103-13	WC-14-7.5-10B	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	J11	09/17/2024	8015D
P4103-13	WC-14-7.5-10B	Solid	PCB	Cool 4 deg C	ENTA05	J11	09/17/2024	8082A
P4103-13	WC-14-7.5-10B	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ENTA05	J11	09/17/2024	8270E
P4103-16	WC-23	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	J11	09/17/2024	8015D
P4103-16	WC-23	Solid	PCB	Cool 4 deg C	ENTA05	J11	09/17/2024	8082A
P4103-16	WC-23	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ENTA05	J11	09/17/2024	8270E

Date/Time 09/19/24 11:05
Raw Sample Received by: RJ (Ent lab)
Raw Sample Relinquished by:

Date/Time 09/19/24 11:35
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ent lab)

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

Prep Standard - Chemical Standard Summary

Order ID : P4103

Test : Diesel Range Organics

Prepbatch ID : PB163522,

Sequence ID/Qc Batch ID: FF091924,FF092024,

Standard ID :
EP2538,EP2540,PP23454,PP23518,PP23611,PP23612,PP23613,PP23614,PP23615,PP23616,PP23617,

Chemical ID :
E2865,E3551,E3759,E3768,E3787,E3792,E3793,E3794,P11950,P11960,P13103,P13107,P13206,P13207,P13208,P13209,P13210,P13211,P13217,P13218,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2540	09/17/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 09/17/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP23454	06/10/2024	12/08/2024	Yogesh Patel	None	None	Ankita Jodhani 06/12/2024

FROM 1.00000ml of P11950 + 1.00000ml of P11960 + 48.00000ml of E3759 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
147	20 PPM DRO Surrogate Spike Solution	PP23518	07/15/2024	01/08/2025	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 1.00000ml of P13206 + 1.00000ml of P13207 + 1.00000ml of P13208 + 1.00000ml of P13209 + 196.00000ml of E3768 = Final Quantity: 200.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
433	100/100 PPM DRO (Restek)	PP23611	08/14/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 1.00000ml of P13103 + 1.00000ml of P13107 + 1.00000ml of P13210 + 7.00000ml of E3787 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3796	100/100 PPM DRO STD (CPI)	PP23612	08/14/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 1.00000ml of P13211 + 1.00000ml of P13217 + 1.00000ml of P13218 + 7.00000ml of E3787 = Final Quantity: 10.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
435	50 PPM ICC DRO STD (Restek)	PP23613	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.50000ml of E3787 + 0.50000ml of PP23611 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
437	20 PPM ICC DRO STD (Restek)	PP23614	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.80000ml of E3787 + 0.20000ml of PP23611 = Final Quantity: 1.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
438	10 PPM ICC DRO STD (Restek)	PP23615	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.90000ml of E3787 + 0.10000ml of PP23611 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
439	5 PPM ICC DRO STD (Restek)	PP23616	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.90000ml of E3787 + 0.10000ml of PP23613 = Final Quantity: 1.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3797	50 PPM DRO ICV STD (CPI)	PP23617	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.50000ml of E3787 + 0.50000ml of PP23612 = Final Quantity: 1.000 ml

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

CHEMICAL RECEIPT LOG BOOK

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

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)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

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)	24G0862022	02/13/2025	08/13/2024 / Rajesh	08/07/2024 / Rajesh	E3787

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3792

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

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)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	12/10/2024	06/10/2024 / yogesh	07/11/2022 / Yogesh	P11950

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	12/10/2024	06/10/2024 / yogesh	07/11/2022 / Yogesh	P11960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	02/14/2025	08/14/2024 / yogesh	01/12/2024 / Yogesh	P13103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	02/14/2025	08/14/2024 / yogesh	01/12/2024 / Yogesh	P13107

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

CHEMICAL RECEIPT LOG BOOK

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	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13206

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	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13207

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	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13208

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	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13209

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	02/14/2025	08/14/2024 / yogesh	01/17/2024 / Ankita	P13210

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	02/14/2025	08/14/2024 / yogesh	01/17/2024 / Ankita	P13211

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

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	P13217

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

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

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

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

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

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

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

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

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
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	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G0862022
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F05012

E 3787

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
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	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 09/11/24

E 3792

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H_2O)	≤ 0.5 %	0.1 %
Solubility in H_2O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities - Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities - Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count - 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result

For Microelectronic Use

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

Michelle Bales
Sr. Manager, Quality Assurance

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P11948
&
P11962
7.8
07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

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

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

Expiration Date : July 31, 2029 **Storage:** 25°C nominal

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

CERTIFIED VALUES

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

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

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

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

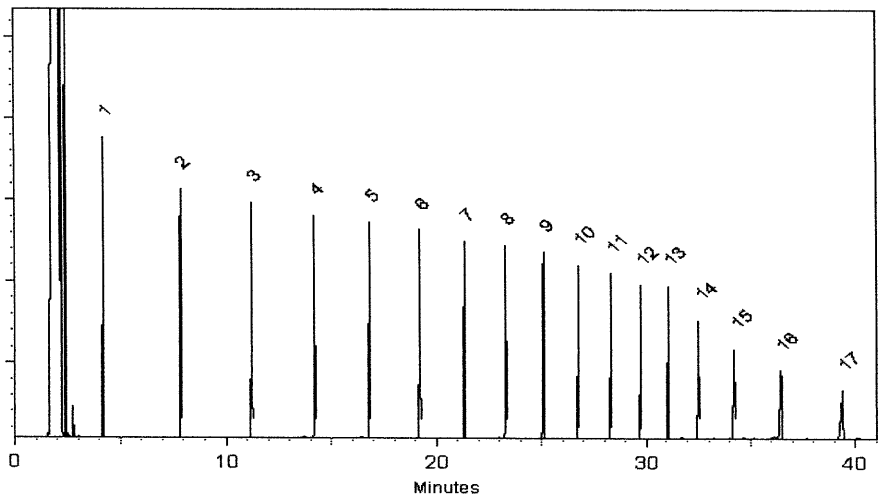
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brittany Federinko - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P11948
&
P11962
7.8
07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

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

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

Expiration Date : July 31, 2029 **Storage:** 25°C nominal

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

CERTIFIED VALUES

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

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

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

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

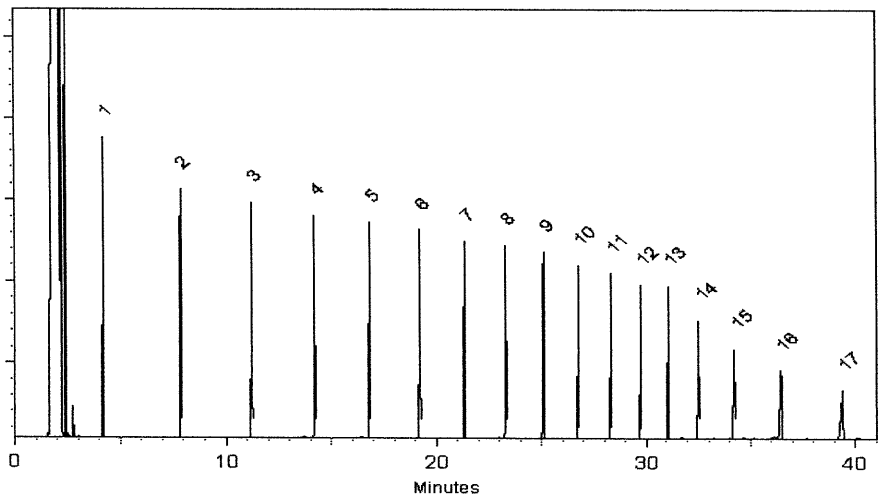
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brittany Federinko - Operations Tech I

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

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

RESTEK

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

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

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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 → P13112 Y.P. 01/12/2024

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

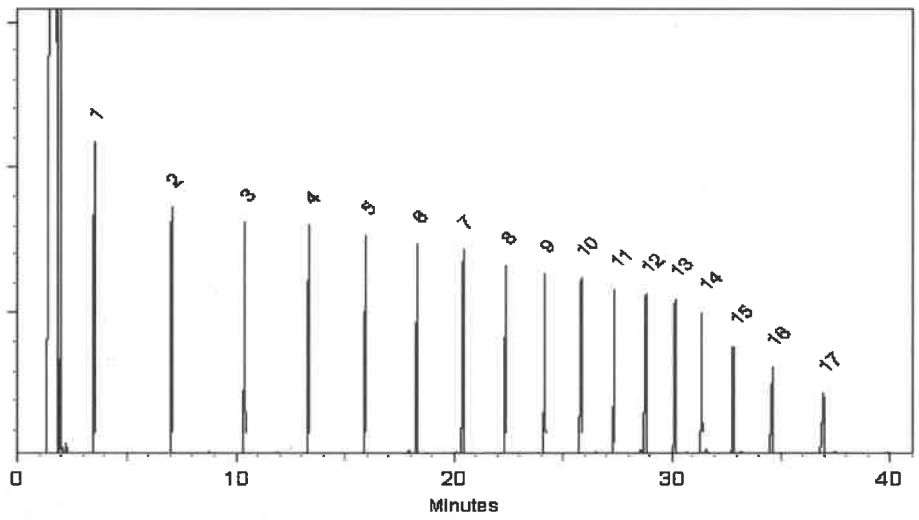
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

RESTEK

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

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

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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 → P13112 Y.P. 01/12/2024

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

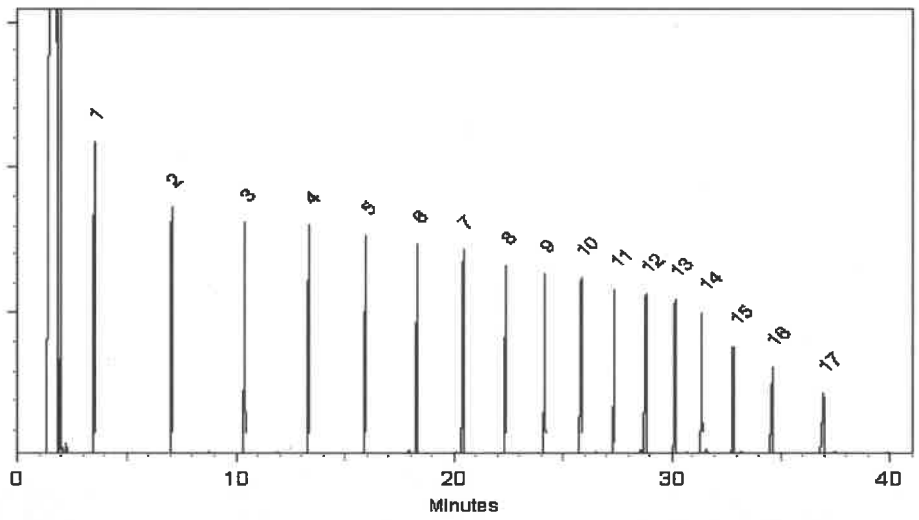
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride **Lot#** 105345

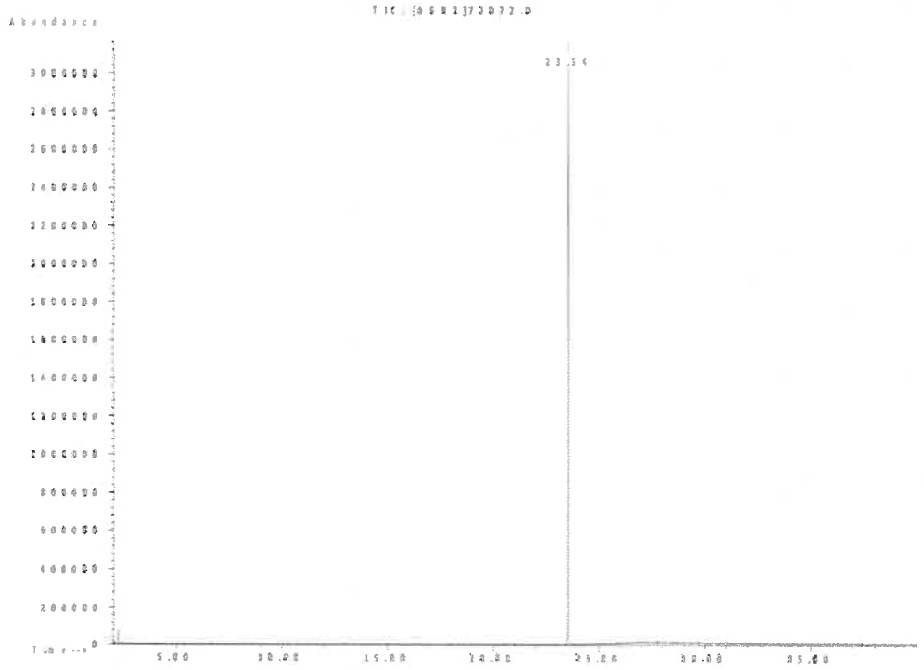
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

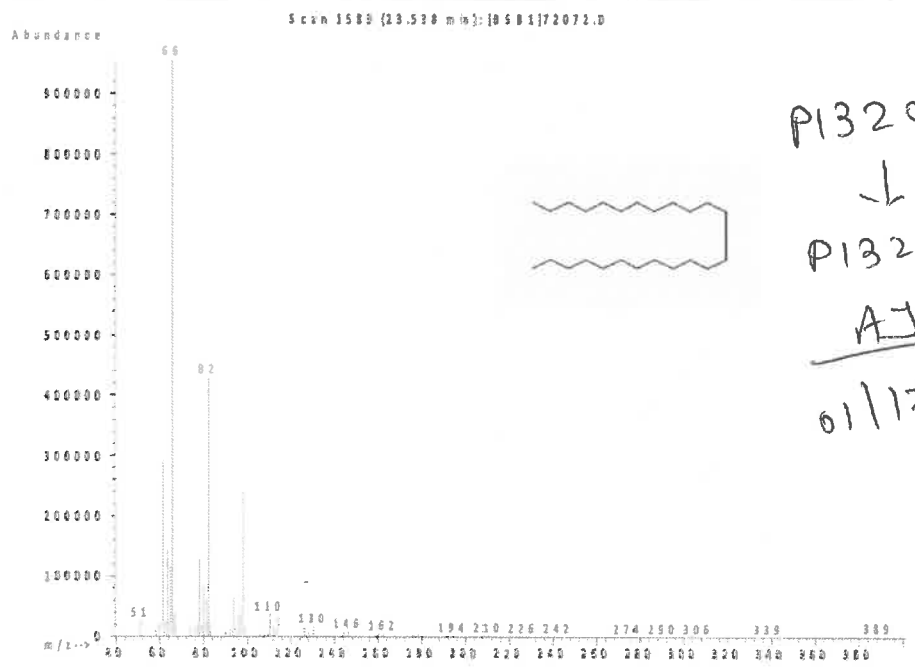
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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

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

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





P13205
↓
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 certifed (+/-) 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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride **Lot#** 105345

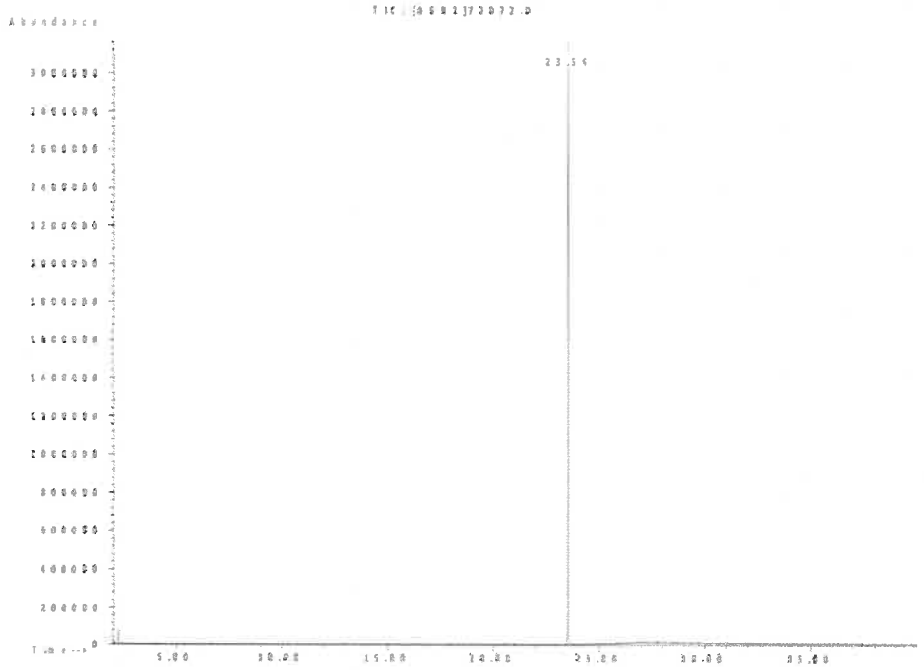
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

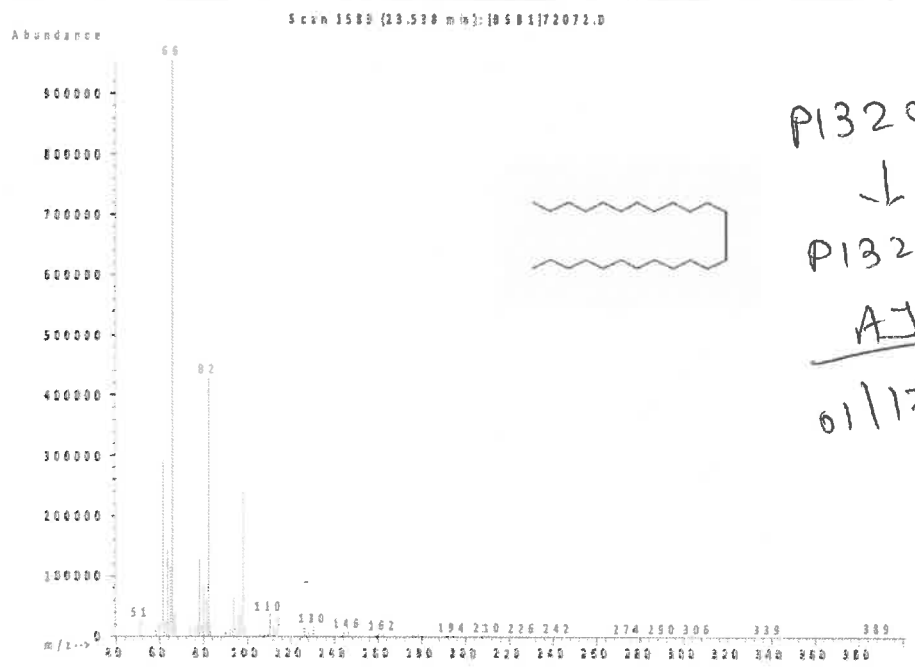
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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

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

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





P13205
↓
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 certifed (+/-) 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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride **Lot#** 105345

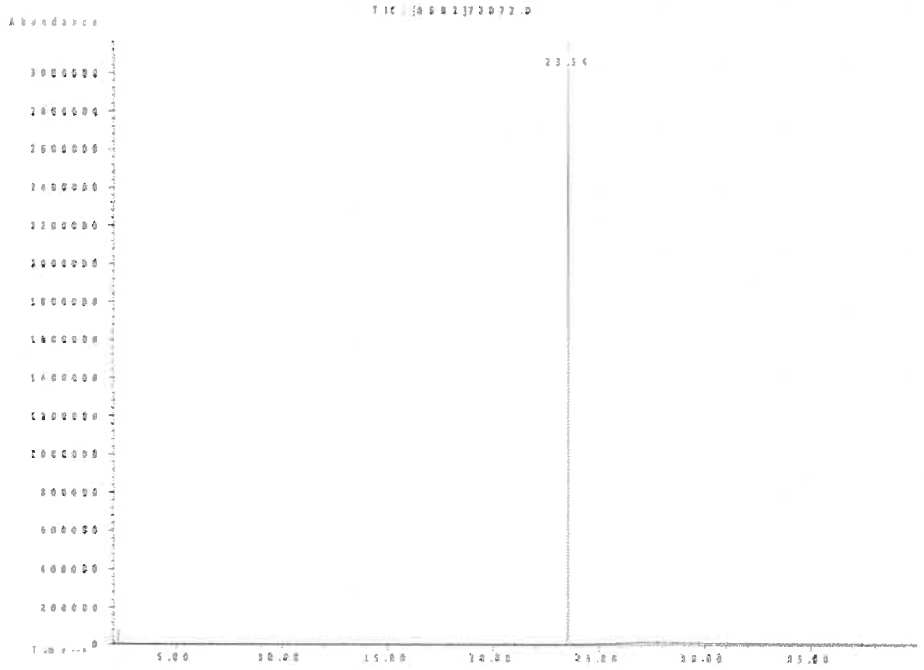
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

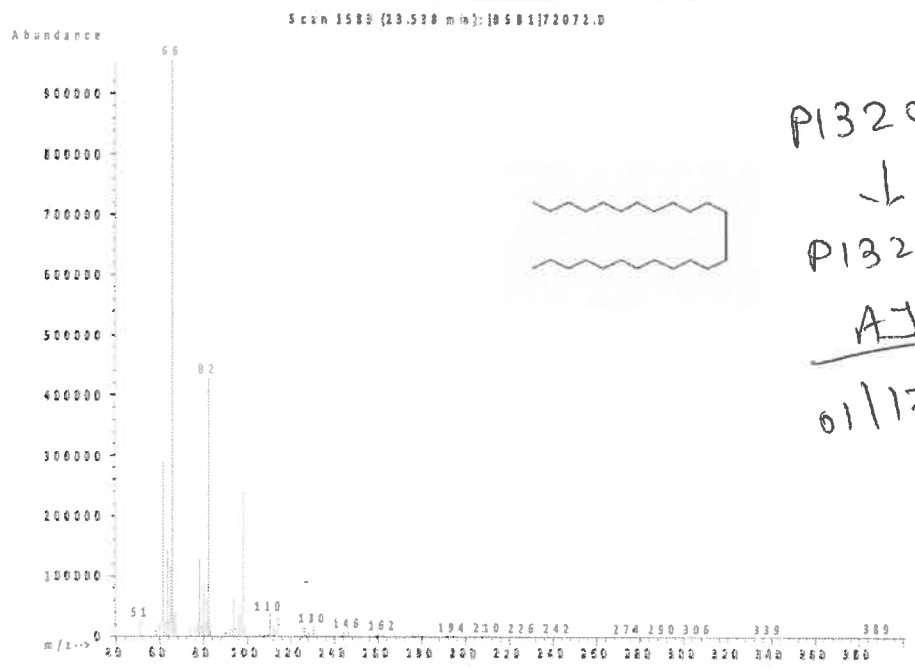
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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

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

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





P13205
↓
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 certifed (+/-) 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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride **Lot#** 105345

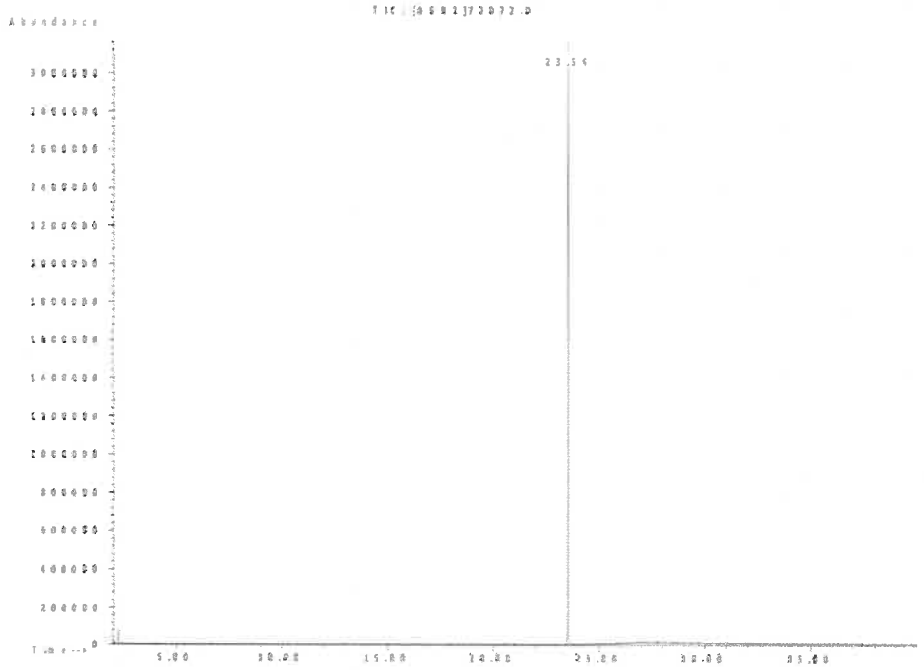
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

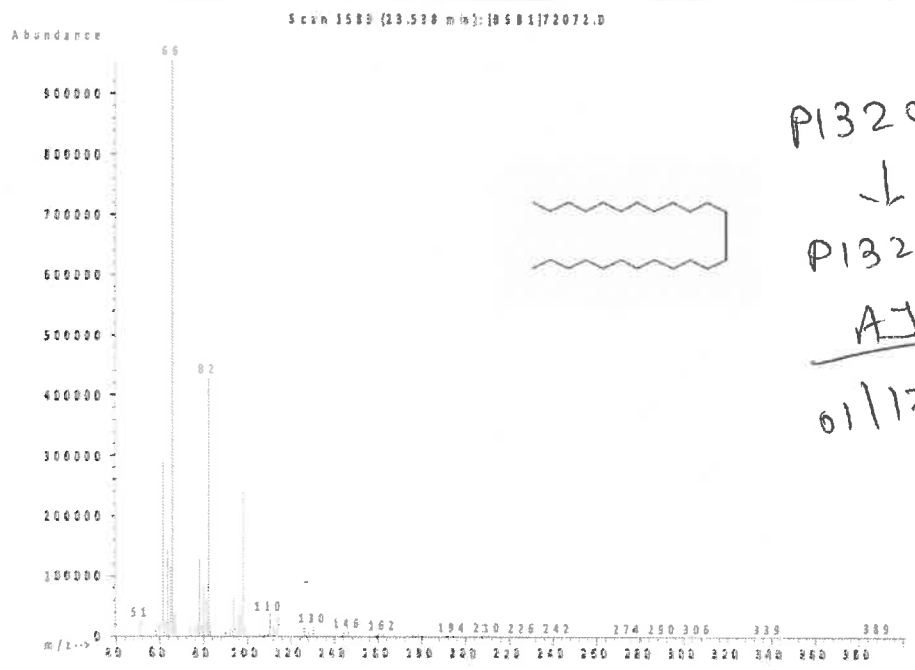
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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

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

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





P13205
↓
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 certifed (+/-) 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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride **Lot#** 105345

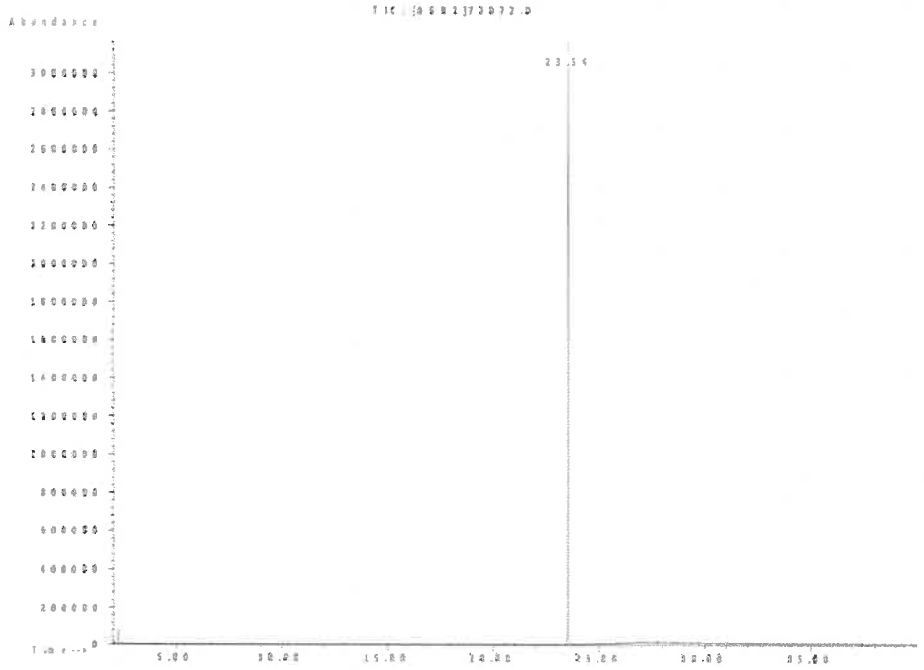
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

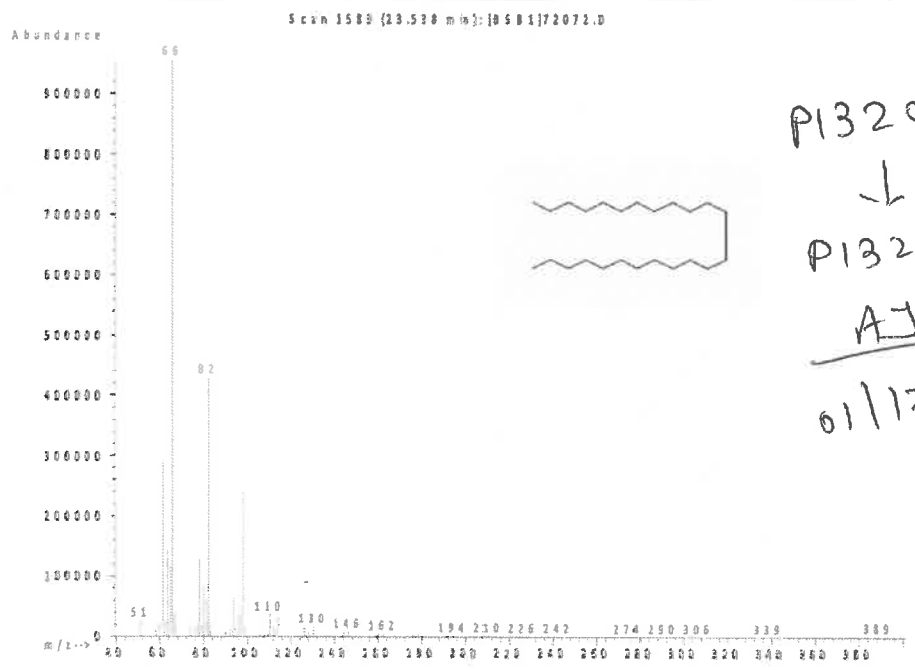
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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

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

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





P13205
↓
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 certifed (+/-) 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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride **Lot#** 105345

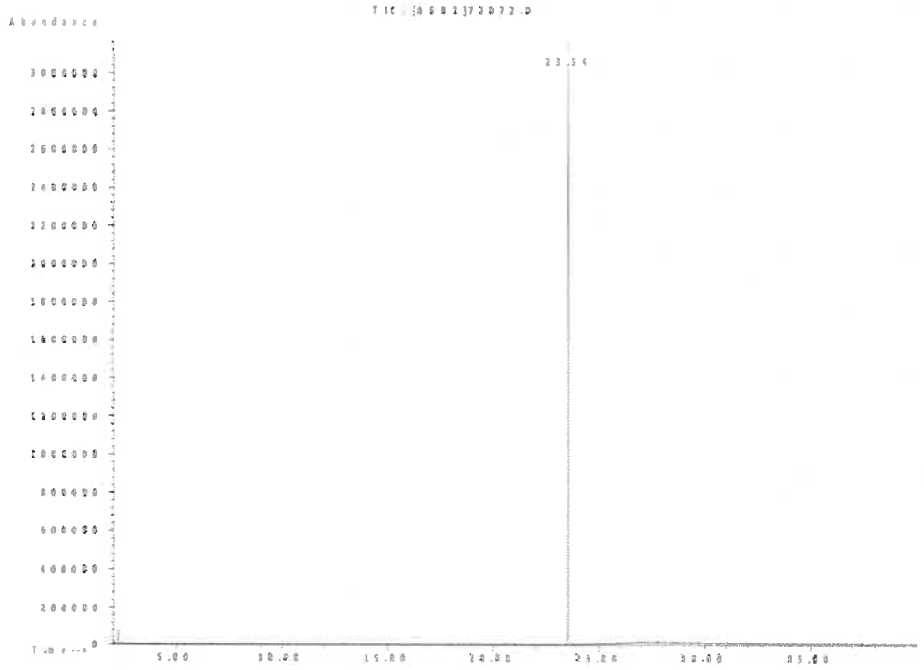
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

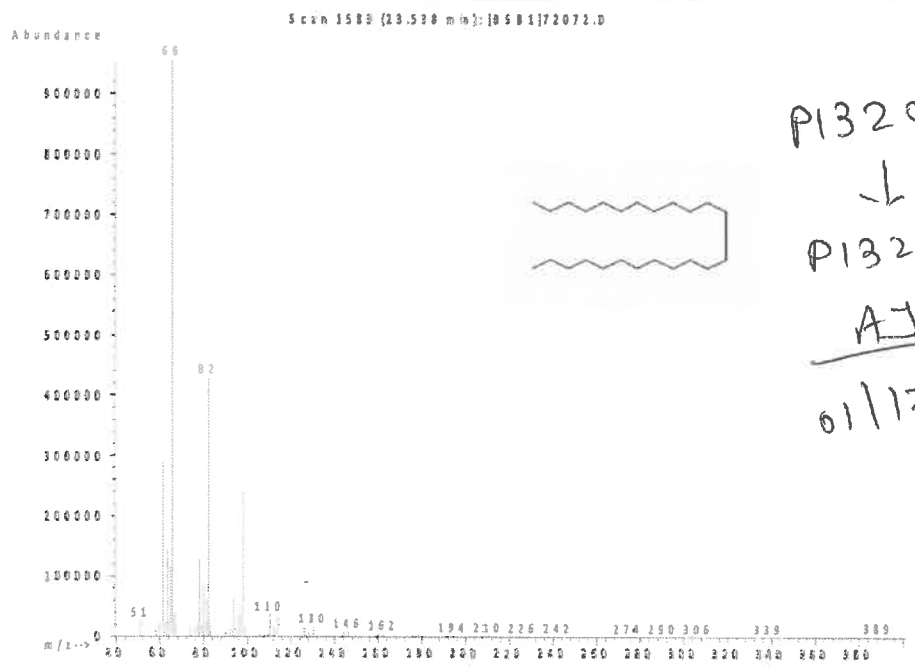
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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

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

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





P13205
↓
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 certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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

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

P13215
↓
P13224

AJ
01/31/24

*Not a certified value

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

Certified By: Andrea Schaible

Andrea Schaible
Chemist

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

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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

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

P13215
↓
P13224

AJ
01/31/24

*Not a certified value

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

Certified By: Andrea Schaible

Andrea Schaible
Chemist

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

SHIPPING DOCUMENTS

P4103

ENTACT

CHAIN OF CUSTODY RECORD

NO. 1 OF 5

COMPANY INFORMATION		PROJECT INFORMATION	
LOCATION	ENTACT LLC	PROJECT	North Point
ATTN	Wyatt Seel	BILLING INFORMATION	
ADDRESS	150 Bay Street, Suite 801	BILL TO	ENTACT LLC
	Jersey City, NJ	ADDRESS	999 Oakmont Plaza Drive Suite 300
			Westmont, IL 60559
PHONE	419-266-4671	PHONE	630-986-2900
FAX		FAX	PO# E9306

SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	TCL + 20 SVOCs (8270)	TAL Metals + Boron & Tin (6010/7471)	Full TCLP + TCLP Cu, Ni & Zn (1311/8270/8081/8151/6010/7471)	RCRA Characteristics-I/C/R (1030/9045D/Ch 7 rev3)	PCBs (8082); Hex Chromium (7196)	Ammonia-Nitrogen (ASTM/SM4500H); COD (ASTM/5220D); Oil & Grease (ASTM/1664);	Total Solids (ASTM/SM2540G); Total Volatile Solids (160.4)	TCL+10 VOCs (8260); TCLP VOCs (1311/8260); TPH DRO & GRO (8015)	Tox (9020 or 9023)	COMMENTS
WC-22A	Waste characterization	9/17	11:40	Soil	C	8/4oz Jar	9	X	X	X	X	X	X	X	X	X	See Full List Attached
WC-14_5_7.5A	Waste characterization	9/17	11:50	Soil	C	8/4oz Jar	9	X	X	X	X	X	X	X	X	X	See Full List Attached
WC-14_5_7.5B	Waste characterization	9/17	13:30	Soil	C	8/4oz Jar	9	X	X	X	X	X	X	X	X	X	See Full List Attached
WC-14_7.5_10A	Waste characterization	9/17	12:35	Soil	C	8/4oz Jar	9	X	X	X	X	X	X	X	X	X	See Full List Attached
WC-14_7.5_10B	Waste characterization	9/17	14:20	Soil	C	8/4oz Jar	9	X	X	X	X	X	X	X	X	X	See Full List Attached
WC-23	Waste characterization	9/17	14:45	Soil	C	8/4oz Jar	9	X	X	X	X	X	X	X	X	X	See Full List Attached

SAMPLER	W. Seel	SHIPMENT	courier	AIRBILL	

REQUIRED TURNAROUND ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER: _____

1. RELINQUISHED BY	DATE	2. RELINQUISHED BY	DATE	3. RELINQUISHED BY	DATE
SIGNATURE:	9-18-24	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Wyatt Seel	14:10	PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	
1. RECEIVED BY	DATE	2. RECEIVED BY	DATE	3. RECEIVED BY	DATE
SIGNATURE:	9-18-24	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Bonova Peña	14:10	PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	

Parameter	Test Method
TCL + 10 VOCs	8270D
TCL + 20 SVOCs	8260B
TAL Metals (+Boron, Tin)	6010/7471
Hexavalent Chromium (Cr+6)	7196
Total Cyanide	9014
TCLP VOCs	1311/8260B
TCLP SVOCs	1311/8270D
TCLP Metals (+ Beryllium, Copper, Nickel, Zinc)	1311/6010/7471
TCLP Pesticides/Herbicides	1311/8080/8151
RCRA Characteristics (Ignitability, Corrosivity, Reactive Sulfide/Cyanide)	SW 846 1030 SW 846/9045D SW 846 7.3.3.2 Rev. 3
PCBs	8082A
TPH/DRO & GRO	8015D
TOX	9020 or 9023
Paint Filter	9095

CHEMTECH 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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4103 ENTA05
Client Name : ENTACT
Client Contact : Chris Lawrence
Invoice Name : ENTACT
Invoice Contact : Chris Lawrence

Order Date : 9/18/2024 3:16:00 PM
North Point
Project Name : ~~CMC - CTV2 #E9322~~
Receive DateTime : 9/18/2024 2:10:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4103-01	WC-22A	Solid	09/17/2024	11:40					
					VOC-TCLVOA-10		8260D		5 Bus. Days
P4103-07	WC-14-5-7.5B	Solid	09/17/2024	13:30					
					VOC-TCLVOA-10		8260D		5 Bus. Days
P4103-10	WC-14-7.5-10A	Solid	09/17/2024	12:35					
					VOC-TCLVOA-10		8260D		5 Bus. Days
P4103-13	WC-14-7.5-10B	Solid	09/17/2024	14:20					
					VOC-TCLVOA-10		8260D		5 Bus. Days
P4103-16	WC-23	Solid	09/17/2024	14:45					
p4103-04	WC-14-5-7.5A	solid	09/17/2024	11:50am	VOC-TCLVOA-10		8260D		5 Bus. Days
					VOC-TCLVOA-10		8260D		5 Bus. Days

Relinguished By :
Date / Time : 9-18-24 16:25

Received By : JC
Date / Time : 9/18/24 1625

Storage Area : **VOA Refridgerator Room**