

LAB CHRONICLE

OrderID:	Q2458	OrderDate:	6/27/2025 4:22:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	TP-76	SOIL			06/26/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-02	TP-55	SOIL			06/26/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-03	TP-68	SOIL			06/27/25			06/27/25
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-04	TP-67	SOIL			06/27/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-05	TP-66	SOIL			06/27/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-06	TP-60	SOIL			06/27/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	

LAB CHRONICLE

Q2458-07	TP-62	SOIL	Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A	07/01/25	07/01/25	
			Pesticide-TCL	8081B	07/01/25	07/01/25	
					06/27/25		06/27/25
Q2458-08	TP-63	SOIL	Diesel Range Organics	8015D	07/02/25	07/02/25	
			Gasoline Range Organics	8015D		07/01/25	
			PCB	8082A	07/01/25	07/01/25	
			Pesticide-TCL	8081B	07/01/25	07/01/25	
Q2458-09	TP-59	SOIL			06/27/25		06/27/25
			Diesel Range Organics	8015D	07/02/25	07/02/25	
			Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A	07/01/25	07/01/25	
Q2458-10	FB-06272025	Water	Pesticide-TCL	8081B	07/01/25	07/01/25	
					06/27/25		06/27/25
			Diesel Range Organics	8015D	07/02/25	07/02/25	
			Gasoline Range Organics	8015D		07/01/25	
			PCB	8082A	07/02/25	07/02/25	
			Pesticide-TCL	8081B	07/03/25	07/03/25	



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.6
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016077.D	1	07/02/25 09:17	07/02/25 20:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	21100		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.9		37 - 130	64%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.4
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016091.D	5	07/02/25 09:17	07/03/25 10:11	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	48400		923	9100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.13		37 - 130	53%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.3
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016079.D	1	07/02/25 09:17	07/02/25 21:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	21100		183	1800	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.51		37 - 130	48%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016080.D	1	07/02/25 09:17	07/02/25 21:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8110		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.5		37 - 130	52%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.3
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016092.D	5	07/02/25 09:17	07/03/25 10:47	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	43300		954	9410	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	3.08		37 - 130	77%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.5
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016093.D	5	07/02/25 09:17	07/03/25 11:17	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	62300		911	8990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.27		37 - 130	57%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.1
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016202.D	1	07/02/25 09:17	07/02/25 16:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3130		185	1830	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.97		37 - 130	45%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016203.D	1	07/02/25 09:17	07/02/25 16:36	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6010		195	1930	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	76.6
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016204.D	1	07/02/25 09:17	07/02/25 17:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2980		220	2170	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.5		37 - 130	53%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	970	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016068.D	1	07/02/25 09:09	07/02/25 15:02	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	47.0	J	6.00	52.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	86%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit



QC SUMMARY

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No.: Q2458

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016062.D	85				0
PIBLK-FF016073.D	80				0
PIBLK-FF016085.D	88				0
PIBLK-FF016088.D	120				0
PIBLK-FF016094.D	89				0
PIBLK-FF016116.D	100				0
PIBLK-FF016126.D	81				0
PIBLK-FG016199.D	85				0
PIBLK-FG016207.D	84				0
PB168697BL	84				0
PB168697BS	95				0
PB168697BSD	92				0
PB168701BL	79				0
PB168701BS	76				0
TP-76	64				0
TP-55	53				0
TP-68	48				0
TP-67	52				0
TP-67MS	42				0
TP-67MSD	39				0
TP-66	77				0
TP-60	57				0
TP-62	45				0
TP-63	51				0
TP-59	53				0
FB-06272025	86				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130

For Soil : 37-130

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted Out

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2458

Client Sample ID : TP-67MS

Datafile: FF016081.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7420	8110	10715	35%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance Client: CDM Smith
Lab Code: ACE SDG No: Q2458
Client Sample ID : TP-67MSD Datafile: FF016082.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7427	8110	10934	38%	*	68-131

MS/MSD % Recovery RPD : 7.9

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

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2458

Client Sample ID : PB168701BS

Datafile: FF016076.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	4984	75	68-131

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

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2458

Client Sample ID : PB168697BS

Datafile: FF016124.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
DRO	200	0	194	97	78-117

A
B
C
D
E
F
G

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

Lab Name:	<u>Alliance</u>	Client:	<u>CDM Smith</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2458</u>
Client Sample ID :	<u>PB168697BSD</u>	Datafile:	<u>FF016125.D</u>

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
DRO	200	0	189	94	78-117

LCS/LCSD % Recovery RPD : 2.6

A
B
C
D
E
F
G

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168697BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: FF016065.D

Lab Sample ID: PB168697BL

Instrument ID: ff

Date Extracted: 07/02/2025

Matrix: (soil/water) Water

Date Analyzed: 07/02/25

Level: (low/med) low

Time Analyzed: 13:33

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FB-06272025	Q2458-10	FF016068.D	07/02/25
PB168697BS	PB168697BS	FF016124.D	07/09/25
PB168697BSD	PB168697BSD	FF016125.D	07/09/25

COMMENTS: _____

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168701BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: FF016075.D

Lab Sample ID: PB168701BL

Instrument ID: ff

Date Extracted: 07/02/2025

Matrix: (soil/water) Soil

Date Analyzed: 07/02/25

Level: (low/med) low

Time Analyzed: 19:06

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168701BS	PB168701BS	FF016076.D	07/02/25
TP-76	Q2458-01	FF016077.D	07/02/25
TP-68	Q2458-03	FF016079.D	07/02/25
TP-67	Q2458-04	FF016080.D	07/02/25
TP-67MS	Q2458-04MS	FF016081.D	07/02/25
TP-67MSD	Q2458-04MSD	FF016082.D	07/02/25
TP-55	Q2458-02	FF016091.D	07/03/25
TP-66	Q2458-05	FF016092.D	07/03/25
TP-60	Q2458-06	FF016093.D	07/03/25
TP-62	Q2458-07	FG016202.D	07/02/25
TP-63	Q2458-08	FG016203.D	07/02/25
TP-59	Q2458-09	FG016204.D	07/02/25

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BL	SDG No.:	Q2458
Lab Sample ID:	PB168697BL	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
FF016065.D	1	07/02/25 09:09	07/02/25 13:33	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.8		29 - 130	84%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BL	SDG No.:	Q2458
Lab Sample ID:	PB168701BL	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
FF016075.D	1	07/02/25 09:17	07/02/25 19:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	169	U	169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.9		37 - 130	79%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FF016062.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016062.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016062.D	1		07/02/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	85%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FF016073.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016073.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016073.D	1		07/02/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.0		29 - 130	80%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016085.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016085.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016085.D	1		07/03/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.5		29 - 130	88%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016088.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016088.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016088.D	1		07/03/25	FF070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	24.1		29 - 130	120%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016094.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016094.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016094.D	1		07/03/25	FF070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.8		29 - 130	89%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-FF016116.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016116.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016116.D	1		07/09/25	FF070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	20.1		29 - 130	100%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-FF016126.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016126.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016126.D	1		07/09/25	FF070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.2		29 - 130	81%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016199.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FG016199.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016199.D	1		07/02/25	FG070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	85%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016207.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FG016207.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016207.D	1		07/02/25	FG070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.9		29 - 130	84%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BS	SDG No.:	Q2458
Lab Sample ID:	PB168697BS	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
FF016124.D	1	07/02/25 09:09	07/09/25 15:34	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	194		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.9		29 - 130	95%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BS	SDG No.:	Q2458
Lab Sample ID:	PB168701BS	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
FF016076.D	1	07/02/25 09:17	07/02/25 19:36	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4980		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.1		37 - 130	76%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BSD	SDG No.:	Q2458
Lab Sample ID:	PB168697BSD	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
FF016125.D	1	07/02/25 09:09	07/09/25 16:06	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	189		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.5		29 - 130	92%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016081.D	1	07/02/25 09:17	07/02/25 22:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10700		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.49		37 - 130	42%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016082.D	1	07/02/25 09:17	07/02/25 22:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10900		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.76		37 - 130	39%	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



CALIBRATION SUMMARY

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Contract: CAMP02
 ProjectID: South River WM Replacement
 Lab Code: ACE SDG No.: Q2458

Calibration Sequence : FF061325		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	128762116	128762	FF015964.D
500	64295722	128591	FF015965.D
200	27169561	135848	FF015966.D
100	13526499	135265	FF015967.D
50	7306219	146124	FF015968.D
AVG RF : 134918		% RSD : 5.299	AVG RT : 15.0944

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
ProjectID:	<u>South River WM Replacement</u>		
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>

Calibration Sequence : FG061325		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	121978597	121979	FG016063.D
500	61365081	122730	FG016064.D
200	26234834	131174	FG016065.D
100	13396741	133967	FG016066.D
50	7145066	142901	FG016067.D
AVG RF : 130550		% RSD : 6.625	AVG RT : 15.1972

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016063.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70575628	141151	134918	4.62

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016074.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65207896	130416	134918	3.337

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016086.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	72212687	144425	134918	7.047

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016089.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	74529678	149059	134918	10.481

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016095.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	76560914	153122	134918	13.493

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016117.D Analyst Name: YP\AJ Analyst Date: 07-09-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	69768852	139538	134918	3.424

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016127.D Analyst Name: YP\AJ Analyst Date: 07-09-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70910876	141822	134918	5.117

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FG016200.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64913586	129827	130550	0.554

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FG016208.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63999772	128000	130550	1.953

Analytical Sequence

Client: CDM Smith

SDG No.: Q2458

Project: South River WM Replacement

Instrument ID: FID_G

GC Column: RXI-1MS ID: 0.18 (mm)

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.0944					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	02 Jul 2025 11:18	FF016062.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 11:53	FF016063.D	15.096	
PB168697BL	PB168697BL	02 Jul 2025 13:33	FF016065.D	15.089	
FB-06272025	Q2458-10	02 Jul 2025 15:02	FF016068.D	15.092	
PIBLK02	LBLK02	02 Jul 2025 17:36	FF016073.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 18:06	FF016074.D	15.094	
PB168701BL	PB168701BL	02 Jul 2025 19:06	FF016075.D	15.092	
PB168701BS	PB168701BS	02 Jul 2025 19:36	FF016076.D	15.091	
TP-76	Q2458-01	02 Jul 2025 20:06	FF016077.D	15.092	
TP-68	Q2458-03	02 Jul 2025 21:05	FF016079.D	15.097	
TP-67	Q2458-04	02 Jul 2025 21:35	FF016080.D	15.097	
TP-67MS	Q2458-04MS	02 Jul 2025 22:05	FF016081.D	15.096	
TP-67MSD	Q2458-04MSD	02 Jul 2025 22:35	FF016082.D	15.095	
PIBLK03	LBLK03	03 Jul 2025 00:04	FF016085.D	15.100	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 00:34	FF016086.D	15.102	
PIBLK04	LBLK04	03 Jul 2025 08:38	FF016088.D	15.100	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 09:08	FF016089.D	15.103	
TP-55	Q2458-02	03 Jul 2025 10:11	FF016091.D	15.099	
TP-66	Q2458-05	03 Jul 2025 10:47	FF016092.D	15.098	
TP-60	Q2458-06	03 Jul 2025 11:17	FF016093.D	15.099	
PIBLK05	LBLK05	03 Jul 2025 11:47	FF016094.D	15.101	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 12:17	FF016095.D	15.105	
PIBLK06	LBLK06	09 Jul 2025 09:32	FF016116.D	15.102	
50 PPM TRPH STD	50 PPM TRPH STD	09 Jul 2025 10:02	FF016117.D	15.107	
PB168697BS	PB168697BS	09 Jul 2025 15:34	FF016124.D	15.102	
PB168697BSD	PB168697BSD	09 Jul 2025 16:06	FF016125.D	15.101	
PIBLK07	LBLK07	09 Jul 2025 16:36	FF016126.D	15.102	
50 PPM TRPH STD	50 PPM TRPH STD	09 Jul 2025 17:06	FF016127.D	15.104	
PIBLK08	LBLK08	02 Jul 2025 11:18	FG016199.D	15.199	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 11:53	FG016200.D	15.204	
TP-62	Q2458-07	02 Jul 2025 16:06	FG016202.D	15.199	
TP-63	Q2458-08	02 Jul 2025 16:36	FG016203.D	15.202	
TP-59	Q2458-09	02 Jul 2025 17:06	FG016204.D	15.203	
PIBLK09	LBLK09	02 Jul 2025 18:36	FG016207.D	15.204	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 19:06	FG016208.D	15.207	

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

QC Limits
(± 0.10 minutes)

Lower Limit
15.0972

Upper Limits
15.2972

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016078.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:35
Operator : YP\AJ
Sample : Q2458-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-55

A

B

C

D

E

F

G

Integration File: autoint1.e
Quant Time: Jul 03 03:22:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.092	1271270	10.529 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

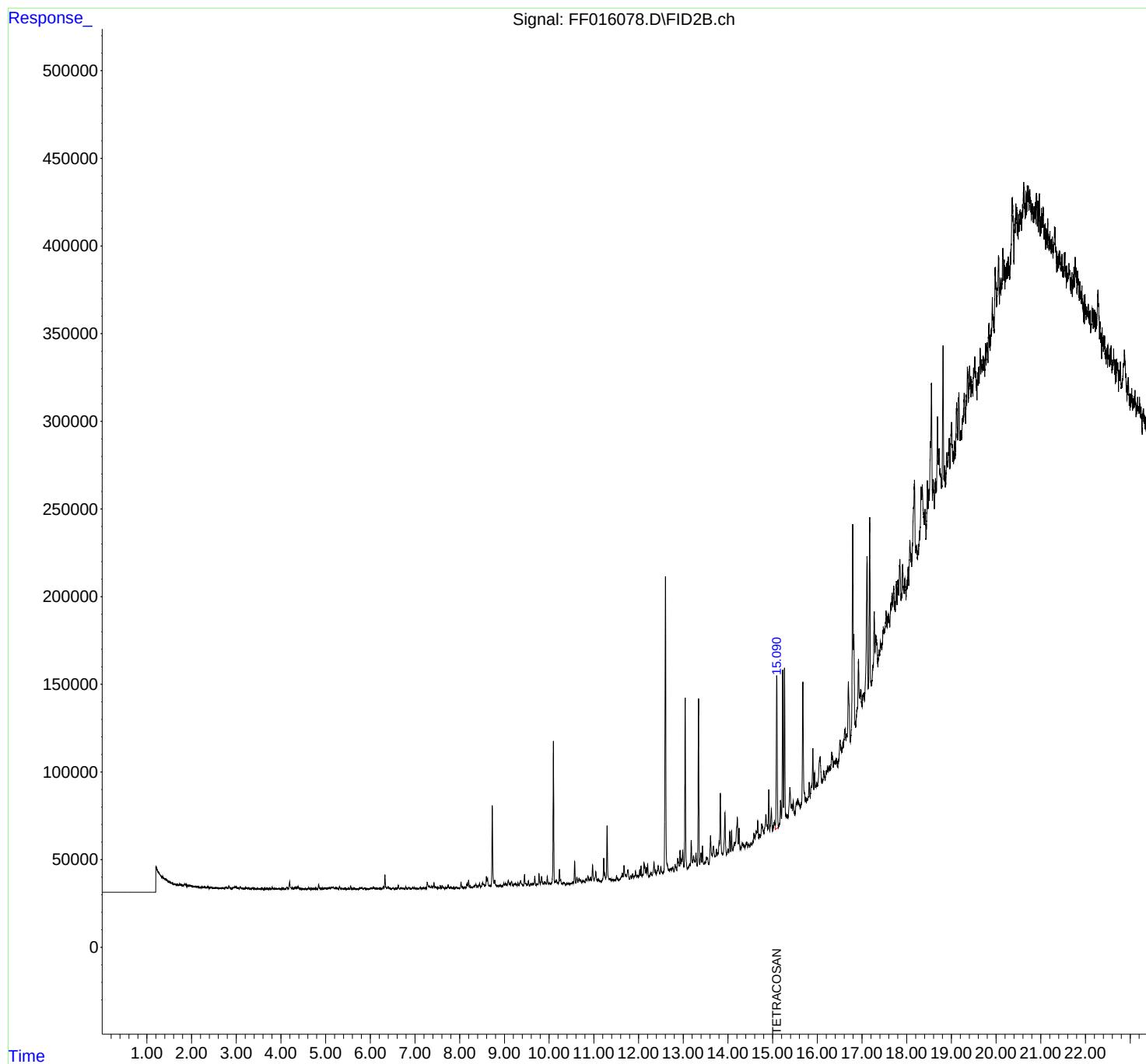
(m)=manual int.

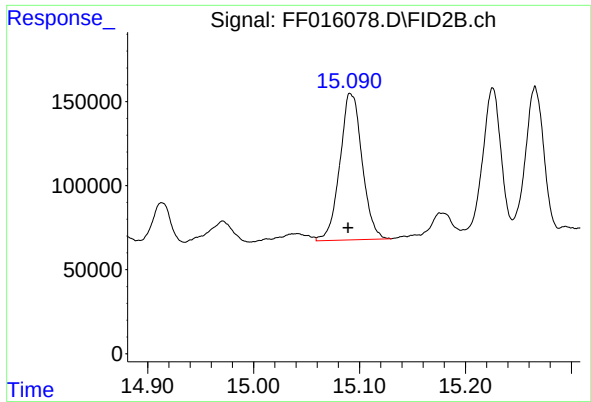
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016078.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:35
Operator : YP\AJ
Sample : Q2458-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-55

Integration File: autoint1.e
Quant Time: Jul 03 03:22:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.092 min
Delta R.T.: 0.002 min
Response: 1271270
Conc: 10.53 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-55

A
B
C
D
E
F
G

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016078.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:35
Sample : Q2458-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.513	4.505	4.522	HH	974	9332	0.14%	0.005%
2	4.528	4.522	4.544	HH	988	12029	0.18%	0.007%
3	4.547	4.544	4.558	HH	909	7508	0.11%	0.004%
4	4.565	4.558	4.590	HH	1058	17708	0.27%	0.010%
5	4.617	4.590	4.636	HH	1518	31619	0.48%	0.017%
6	4.652	4.636	4.670	HH	1238	20850	0.31%	0.011%
7	4.696	4.670	4.720	HH	1090	27798	0.42%	0.015%
8	4.738	4.720	4.760	HH	1054	21993	0.33%	0.012%
9	4.781	4.760	4.822	HH	1402	38259	0.58%	0.021%
10	4.844	4.822	4.890	HH	3527	71520	1.08%	0.039%
11	4.901	4.890	4.912	HH	1181	13887	0.21%	0.008%
12	4.926	4.912	4.957	HH	1187	28450	0.43%	0.015%
13	4.981	4.957	5.005	HH	1332	33677	0.51%	0.018%
14	5.018	5.005	5.040	HH	1209	23032	0.35%	0.012%
15	5.042	5.040	5.049	HH	1115	5955	0.09%	0.003%
16	5.089	5.049	5.105	HH	1462	43549	0.66%	0.024%
17	5.136	5.105	5.153	HH	1978	46347	0.70%	0.025%
18	5.169	5.153	5.215	HH	1787	53521	0.81%	0.029%
19	5.233	5.215	5.264	HH	1458	36618	0.55%	0.020%
20	5.268	5.264	5.289	HH	1193	15576	0.23%	0.008%
21	5.308	5.289	5.362	HH	2241	58763	0.88%	0.032%
22	5.370	5.362	5.386	HH	1090	14577	0.22%	0.008%
23	5.391	5.386	5.396	HH	911	5073	0.08%	0.003%
24	5.401	5.396	5.409	HH	993	7319	0.11%	0.004%
25	5.434	5.409	5.478	HH	1270	39954	0.60%	0.022%
26	5.499	5.478	5.539	HH	1183	33924	0.51%	0.018%
27	5.559	5.539	5.585	HH	2661	42528	0.64%	0.023%
28	5.597	5.585	5.616	HH	992	17652	0.27%	0.010%
29	5.634	5.616	5.653	HH	1261	23416	0.35%	0.013%
30	5.658	5.653	5.684	HH	959	15566	0.23%	0.008%
31	5.699	5.684	5.727	HH	1021	21504	0.32%	0.012%
32	5.731	5.727	5.736	HH	726	3557	0.05%	0.002%
33	5.758	5.736	5.771	HH	1470	23303	0.35%	0.013%
34	5.787	5.771	5.795	HH	1474	19493	0.29%	0.011%
35	5.810	5.795	5.838	HH	1804	33730	0.51%	0.018%
36	5.852	5.838	5.863	HH	1298	16198	0.24%	0.009%

					rteres			
37	5.873	5.863	5.910	HH	1398	29189	0.44%	0.016%
38	5.913	5.910	5.921	HH	863	5692	0.09%	0.003%
39	5.949	5.921	5.969	HH	1131	27086	0.41%	0.015%
40	6.000	5.969	6.010	HH	1257	25399	0.38%	0.014%
41	6.026	6.010	6.043	HH	1667	25287	0.38%	0.014%
42	6.069	6.043	6.111	HH	2180	57921	0.87%	0.031%
43	6.124	6.111	6.156	HH	1421	31959	0.48%	0.017%
44	6.165	6.156	6.182	HH	1184	16774	0.25%	0.009%
45	6.202	6.182	6.210	HH	1137	18403	0.28%	0.010%
46	6.232	6.210	6.244	HH	1225	22341	0.34%	0.012%
47	6.261	6.244	6.270	HH	1219	16682	0.25%	0.009%
48	6.290	6.270	6.308	HH	2257	38011	0.57%	0.021%
49	6.327	6.308	6.384	HH	8884	142709	2.15%	0.077%
50	6.399	6.384	6.421	HH	2152	33978	0.51%	0.018%
51	6.433	6.421	6.460	HH	1396	25997	0.39%	0.014%
52	6.481	6.460	6.488	HH	1067	16048	0.24%	0.009%
53	6.506	6.488	6.542	HH	1491	36433	0.55%	0.020%
54	6.559	6.542	6.568	HH	1230	16560	0.25%	0.009%
55	6.581	6.568	6.597	HH	1283	20032	0.30%	0.011%
56	6.627	6.597	6.661	HH	3073	61798	0.93%	0.033%
57	6.679	6.661	6.705	HH	1682	35384	0.53%	0.019%
58	6.714	6.705	6.724	HH	1235	13691	0.21%	0.007%
59	6.728	6.724	6.758	HH	1238	20998	0.32%	0.011%
60	6.790	6.758	6.825	HH	2097	51640	0.78%	0.028%
61	6.837	6.825	6.847	HH	1208	15287	0.23%	0.008%
62	6.865	6.847	6.896	HH	1795	39344	0.59%	0.021%
63	6.897	6.896	6.906	HH	1043	5754	0.09%	0.003%
64	6.921	6.906	6.926	HH	1080	12065	0.18%	0.007%
65	6.943	6.926	6.963	HH	1775	30220	0.45%	0.016%
66	6.984	6.963	7.035	HH	1507	50753	0.76%	0.027%
67	7.051	7.035	7.060	HH	1146	16243	0.24%	0.009%
68	7.078	7.060	7.083	HH	1143	14484	0.22%	0.008%
69	7.109	7.083	7.147	HH	1733	52898	0.80%	0.029%
70	7.160	7.147	7.178	HH	1375	22160	0.33%	0.012%
71	7.197	7.178	7.216	HH	1627	31697	0.48%	0.017%
72	7.237	7.216	7.256	HH	1551	32648	0.49%	0.018%
73	7.273	7.256	7.312	HH	4688	100364	1.51%	0.054%
74	7.322	7.312	7.352	HH	2424	50044	0.75%	0.027%
75	7.372	7.352	7.393	HH	2155	45963	0.69%	0.025%
76	7.423	7.393	7.444	HH	4504	78472	1.18%	0.042%
77	7.455	7.444	7.480	HH	2225	38721	0.58%	0.021%
78	7.482	7.480	7.497	HH	1594	15075	0.23%	0.008%
79	7.515	7.497	7.545	HH	2090	46074	0.69%	0.025%
80	7.563	7.545	7.588	HH	2945	47380	0.71%	0.026%
81	7.607	7.588	7.625	HH	2661	42084	0.63%	0.023%
82	7.638	7.625	7.666	HH	1981	39671	0.60%	0.021%
83	7.688	7.666	7.705	HH	1793	35465	0.53%	0.019%
84	7.741	7.705	7.778	HH	3348	85993	1.29%	0.047%
85	7.799	7.778	7.844	HH	1706	59714	0.90%	0.032%
86	7.852	7.844	7.857	HH	1417	10885	0.16%	0.006%
87	7.870	7.857	7.884	HH	1599	23145	0.35%	0.013%
88	7.918	7.884	7.951	HH	1965	62923	0.95%	0.034%
89	7.977	7.951	7.995	HH	1503	35324	0.53%	0.019%

					rteres			
90	8.029	7.995	8.047	HH	4758	78195	1.18%	0.042%
91	8.053	8.047	8.070	HH	1980	25094	0.38%	0.014%
92	8.083	8.070	8.100	HH	1718	28736	0.43%	0.016%
93	8.111	8.100	8.133	HH	1731	31327	0.47%	0.017%
94	8.165	8.133	8.181	HH	3613	77327	1.16%	0.042%
95	8.198	8.181	8.219	HH	5927	88536	1.33%	0.048%
96	8.224	8.219	8.255	HH	2462	43455	0.65%	0.024%
97	8.269	8.255	8.291	HH	1967	39923	0.60%	0.022%
98	8.321	8.291	8.337	HH	2699	61426	0.92%	0.033%
99	8.357	8.337	8.387	HH	3316	83432	1.26%	0.045%
100	8.394	8.387	8.408	HH	2395	27365	0.41%	0.015%
101	8.443	8.408	8.479	HH	4123	117782	1.77%	0.064%
102	8.513	8.479	8.530	HH	4353	102842	1.55%	0.056%
103	8.544	8.530	8.559	HH	3648	56256	0.85%	0.030%
104	8.572	8.559	8.580	HH	3108	35560	0.54%	0.019%
105	8.597	8.580	8.610	HH	7901	104675	1.58%	0.057%
106	8.622	8.610	8.656	HH	6995	124570	1.88%	0.067%
107	8.672	8.656	8.690	HH	2789	53643	0.81%	0.029%
108	8.729	8.690	8.769	HH	48109	658350	9.91%	0.356%
109	8.785	8.769	8.814	HH	5911	115002	1.73%	0.062%
110	8.817	8.814	8.833	HH	2917	31730	0.48%	0.017%
111	8.843	8.833	8.863	HH	2718	45035	0.68%	0.024%
112	8.889	8.863	8.905	HH	3015	68119	1.03%	0.037%
113	8.915	8.905	8.939	HH	2788	53011	0.80%	0.029%
114	8.984	8.939	9.006	HH	4162	124586	1.88%	0.067%
115	9.025	9.006	9.050	HH	4014	91617	1.38%	0.050%
116	9.056	9.050	9.060	HH	3233	20736	0.31%	0.011%
117	9.088	9.060	9.109	HH	5976	130077	1.96%	0.070%
118	9.122	9.109	9.134	HH	3898	54720	0.82%	0.030%
119	9.161	9.134	9.201	HH	5368	157271	2.37%	0.085%
120	9.221	9.201	9.235	HH	3946	68631	1.03%	0.037%
121	9.247	9.235	9.261	HH	3917	58139	0.88%	0.031%
122	9.271	9.261	9.286	HH	3626	50790	0.76%	0.027%
123	9.302	9.286	9.328	HH	4048	85881	1.29%	0.046%
124	9.363	9.328	9.413	HH	5677	206168	3.10%	0.112%
125	9.450	9.413	9.470	HH	9181	175009	2.63%	0.095%
126	9.479	9.470	9.515	HH	4062	95284	1.43%	0.052%
127	9.536	9.515	9.565	HH	5560	115381	1.74%	0.062%
128	9.593	9.565	9.612	HH	4083	96164	1.45%	0.052%
129	9.629	9.612	9.644	HH	4335	70616	1.06%	0.038%
130	9.680	9.644	9.717	HH	8166	197583	2.97%	0.107%
131	9.734	9.717	9.748	HH	3955	65336	0.98%	0.035%
132	9.774	9.748	9.799	HH	9528	175903	2.65%	0.095%
133	9.832	9.799	9.859	HH	7938	199759	3.01%	0.108%
134	9.863	9.859	9.881	HH	4084	50863	0.77%	0.028%
135	9.900	9.881	9.937	HH	5019	143669	2.16%	0.078%
136	9.958	9.937	9.981	HH	8112	144453	2.17%	0.078%
137	10.007	9.981	10.040	HH	4265	139375	2.10%	0.075%
138	10.096	10.040	10.120	HH	85123	1041926	15.69%	0.564%
139	10.129	10.120	10.141	HH	5192	64951	0.98%	0.035%
140	10.146	10.141	10.150	HH	5059	27808	0.42%	0.015%
141	10.163	10.150	10.183	HH	6016	104377	1.57%	0.056%

					rteres			
142	10.192	10.183	10.208	HH	4385	61760	0.93%	0.033%
143	10.232	10.208	10.250	HH	12073	194830	2.93%	0.105%
144	10.258	10.250	10.287	HH	6308	110831	1.67%	0.060%
145	10.312	10.287	10.320	HH	4264	78952	1.19%	0.043%
146	10.336	10.320	10.363	HH	4649	104871	1.58%	0.057%
147	10.378	10.363	10.384	HH	3581	44769	0.67%	0.024%
148	10.401	10.384	10.425	HH	4130	92001	1.39%	0.050%
149	10.441	10.425	10.458	HH	4185	77589	1.17%	0.042%
150	10.481	10.458	10.492	HH	3938	79146	1.19%	0.043%
151	10.509	10.492	10.516	HH	4307	58558	0.88%	0.032%
152	10.529	10.516	10.547	HH	4948	84935	1.28%	0.046%
153	10.571	10.547	10.597	HH	16545	263958	3.97%	0.143%
154	10.621	10.597	10.642	HH	7592	158380	2.38%	0.086%
155	10.672	10.642	10.689	HH	6888	163871	2.47%	0.089%
156	10.703	10.689	10.728	HH	6202	127336	1.92%	0.069%
157	10.742	10.728	10.753	HH	5430	76747	1.16%	0.042%
158	10.765	10.753	10.800	HH	5568	146090	2.20%	0.079%
159	10.828	10.800	10.846	HH	6612	162396	2.44%	0.088%
160	10.867	10.846	10.889	HH	8326	177151	2.67%	0.096%
161	10.900	10.889	10.910	HH	6262	76848	1.16%	0.042%
162	10.925	10.910	10.939	HH	7256	115264	1.74%	0.062%
163	10.972	10.939	11.005	HH	14608	338657	5.10%	0.183%
164	11.044	11.005	11.070	HH	10784	302079	4.55%	0.163%
165	11.098	11.070	11.136	HH	6342	230509	3.47%	0.125%
166	11.145	11.136	11.152	HH	5295	49289	0.74%	0.027%
167	11.166	11.152	11.174	HH	5332	67554	1.02%	0.037%
168	11.221	11.174	11.237	HH	18423	356111	5.36%	0.193%
169	11.244	11.237	11.262	HH	9747	127161	1.91%	0.069%
170	11.297	11.262	11.337	HH	36988	636862	9.59%	0.344%
171	11.363	11.337	11.381	HH	6698	168573	2.54%	0.091%
172	11.392	11.381	11.416	HH	6290	126575	1.91%	0.068%
173	11.423	11.416	11.438	HH	6115	80679	1.21%	0.044%
174	11.445	11.438	11.460	HH	5960	77830	1.17%	0.042%
175	11.465	11.460	11.471	HH	5903	37545	0.57%	0.020%
176	11.481	11.471	11.493	HH	6278	78877	1.19%	0.043%
177	11.508	11.493	11.524	HH	8573	136296	2.05%	0.074%
178	11.534	11.524	11.559	HH	6910	132474	1.99%	0.072%
179	11.611	11.559	11.615	HH	7635	217172	3.27%	0.117%
180	11.638	11.615	11.656	HH	9692	213804	3.22%	0.116%
181	11.675	11.656	11.703	HH	14248	303998	4.58%	0.164%
182	11.713	11.703	11.730	HH	8961	137369	2.07%	0.074%
183	11.763	11.730	11.800	HH	11611	377650	5.69%	0.204%
184	11.826	11.800	11.845	HH	8279	201770	3.04%	0.109%
185	11.870	11.845	11.890	HH	9444	224016	3.37%	0.121%
186	11.932	11.890	11.960	HH	10588	361552	5.44%	0.196%
187	11.972	11.960	12.001	HH	8574	200775	3.02%	0.109%
188	12.027	12.001	12.041	HH	11831	232081	3.49%	0.126%
189	12.056	12.041	12.076	HH	14036	229856	3.46%	0.124%
190	12.090	12.076	12.102	HH	9176	137792	2.07%	0.075%
191	12.123	12.102	12.134	HH	15841	248191	3.74%	0.134%
192	12.142	12.134	12.158	HH	13875	170176	2.56%	0.092%
193	12.174	12.158	12.187	HH	13242	203064	3.06%	0.110%
194	12.204	12.187	12.236	HH	15103	319181	4.81%	0.173%

					rteres				
195	12.244	12.236	12.253	HH	8405	82537	1.24%	0.045%	
196	12.281	12.253	12.303	HH	9879	274327	4.13%	0.148%	
197	12.347	12.303	12.368	HH	16126	456988	6.88%	0.247%	
198	12.378	12.368	12.400	HH	11486	203387	3.06%	0.110%	
199	12.418	12.400	12.423	HH	11405	144053	2.17%	0.078%	
200	12.438	12.423	12.479	HH	14188	391438	5.89%	0.212%	
201	12.499	12.479	12.522	HH	13757	298809	4.50%	0.162%	
202	12.526	12.522	12.541	HH	10575	114363	1.72%	0.062%	
203	12.603	12.541	12.671	HH	179103	3099107	46.66%	1.676%	
204	12.677	12.671	12.690	HH	12099	132420	1.99%	0.072%	
205	12.726	12.690	12.741	HH	12722	368783	5.55%	0.199%	
206	12.761	12.741	12.795	HH	12828	392871	5.91%	0.213%	
207	12.818	12.795	12.830	HH	14862	270328	4.07%	0.146%	
208	12.837	12.830	12.855	HH	13518	189678	2.86%	0.103%	
209	12.877	12.855	12.910	HH	18293	503887	7.59%	0.273%	
210	12.929	12.910	12.946	HH	22875	406238	6.12%	0.220%	
211	12.963	12.946	12.971	HH	17410	247237	3.72%	0.134%	
212	12.989	12.971	13.011	HH	22957	443855	6.68%	0.240%	
213	13.045	13.011	13.092	HH	109616	1734551	26.11%	0.938%	
214	13.145	13.092	13.157	HH	14945	534028	8.04%	0.289%	
215	13.180	13.157	13.211	HH	28668	637919	9.60%	0.345%	
216	13.230	13.211	13.254	HH	19881	457837	6.89%	0.248%	
217	13.261	13.254	13.269	HH	16751	147721	2.22%	0.080%	
218	13.286	13.269	13.314	HH	21319	468940	7.06%	0.254%	
219	13.343	13.314	13.369	HH	109448	1536520	23.13%	0.831%	
220	13.398	13.369	13.415	HH	21431	512580	7.72%	0.277%	
221	13.431	13.415	13.462	HH	25382	533251	8.03%	0.288%	
222	13.479	13.462	13.495	HH	16295	315370	4.75%	0.171%	
223	13.518	13.495	13.530	HH	19116	360378	5.43%	0.195%	
224	13.538	13.530	13.567	HH	18758	388201	5.84%	0.210%	
225	13.611	13.567	13.652	HH	31280	1102853	16.60%	0.597%	
226	13.677	13.652	13.710	HH	25359	775416	11.67%	0.419%	
227	13.717	13.710	13.723	HH	19742	142606	2.15%	0.077%	
228	13.742	13.723	13.760	HH	23509	472537	7.11%	0.256%	
229	13.774	13.760	13.782	HH	21710	285515	4.30%	0.154%	
230	13.804	13.782	13.812	HH	28275	453568	6.83%	0.245%	
231	13.830	13.812	13.890	HH	55399	1413371	21.28%	0.765%	
232	13.932	13.890	13.967	HH	44427	1319974	19.87%	0.714%	
233	14.001	13.967	14.016	HH	23807	653671	9.84%	0.354%	
234	14.039	14.016	14.061	HH	33597	732534	11.03%	0.396%	
235	14.081	14.061	14.106	HH	34012	723614	10.89%	0.391%	
236	14.140	14.106	14.153	HH	27210	708789	10.67%	0.383%	
237	14.170	14.153	14.174	HH	27405	324703	4.89%	0.176%	
238	14.210	14.174	14.231	HH	41729	1177946	17.73%	0.637%	
239	14.251	14.231	14.276	HH	35574	775524	11.68%	0.420%	
240	14.283	14.276	14.296	HH	24686	292336	4.40%	0.158%	
241	14.331	14.296	14.352	HH	27283	855308	12.88%	0.463%	
242	14.357	14.352	14.377	HH	26040	385503	5.80%	0.209%	
243	14.420	14.377	14.445	HH	27247	1051256	15.83%	0.569%	
244	14.465	14.445	14.485	HH	26603	631049	9.50%	0.341%	
245	14.520	14.485	14.534	HH	27400	766591	11.54%	0.415%	
246	14.554	14.534	14.563	HH	27991	465584	7.01%	0.252%	

rteres								
247	14.581	14.563	14.597	HH	32634	623148	9.38%	0.337%
248	14.628	14.597	14.632	HH	33858	660523	9.94%	0.357%
249	14.636	14.632	14.648	HH	33993	318115	4.79%	0.172%
250	14.666	14.648	14.691	HH	39856	898150	13.52%	0.486%
251	14.704	14.691	14.722	HH	32283	565381	8.51%	0.306%
252	14.756	14.722	14.805	HH	38133	1707377	25.71%	0.924%
253	14.851	14.805	14.866	HH	43225	1396522	21.03%	0.755%
254	14.875	14.866	14.890	HH	37426	531211	8.00%	0.287%
255	14.913	14.890	14.935	HH	57447	1179003	17.75%	0.638%
256	14.971	14.935	14.996	HH	46612	1441383	21.70%	0.780%
257	15.013	14.996	15.017	HH	35954	430170	6.48%	0.233%
258	15.041	15.017	15.059	HH	39142	964461	14.52%	0.522%
259	15.091	15.059	15.130	HH	122460	2779912	41.85%	1.504%
260	15.177	15.130	15.196	HH	51092	1665432	25.07%	0.901%
261	15.226	15.196	15.245	HH	125680	2175459	32.75%	1.177%
262	15.266	15.245	15.289	HH	126723	2090144	31.47%	1.131%
263	15.294	15.289	15.305	HH	43481	427546	6.44%	0.231%
264	15.312	15.305	15.317	HH	42740	290464	4.37%	0.157%
265	15.322	15.317	15.328	HH	43478	284958	4.29%	0.154%
266	15.333	15.328	15.342	HH	42705	359728	5.42%	0.195%
267	15.386	15.342	15.419	HH	58795	2294900	34.55%	1.241%
268	15.432	15.419	15.444	HH	49015	732991	11.04%	0.396%
269	15.461	15.444	15.493	HH	51188	1369118	20.61%	0.741%
270	15.533	15.493	15.546	HH	50541	1513107	22.78%	0.818%
271	15.563	15.546	15.597	HH	52614	1538856	23.17%	0.832%
272	15.604	15.597	15.614	HH	49314	479962	7.23%	0.260%
273	15.641	15.614	15.646	HH	49934	946739	14.25%	0.512%
274	15.676	15.646	15.732	HH	118757	3593126	54.10%	1.944%
275	15.744	15.732	15.756	HH	53116	761976	11.47%	0.412%
276	15.774	15.756	15.780	HH	52303	737827	11.11%	0.399%
277	15.818	15.780	15.841	HH	61659	2033036	30.61%	1.100%
278	15.862	15.841	15.868	HH	59057	913391	13.75%	0.494%
279	15.875	15.868	15.880	HH	60332	417903	6.29%	0.226%
280	15.901	15.880	15.921	HH	80933	1712765	25.79%	0.926%
281	15.939	15.921	15.959	HH	67128	1409710	21.22%	0.763%
282	15.966	15.959	15.971	HH	59904	431896	6.50%	0.234%
283	15.982	15.971	15.995	HH	61986	890378	13.41%	0.482%
284	16.049	15.995	16.056	HH	74732	2412331	36.32%	1.305%
285	16.064	16.056	16.104	HH	76515	1962049	29.54%	1.061%
286	16.110	16.104	16.123	HH	63151	720775	10.85%	0.390%
287	16.141	16.123	16.177	HH	68104	2095043	31.54%	1.133%
288	16.200	16.177	16.210	HH	68350	1305472	19.65%	0.706%
289	16.226	16.210	16.243	HH	71092	1375724	20.71%	0.744%
290	16.261	16.243	16.266	HH	71293	972685	14.64%	0.526%
291	16.270	16.266	16.289	HH	71035	940450	14.16%	0.509%
292	16.294	16.289	16.301	HH	70645	523437	7.88%	0.283%
293	16.326	16.301	16.358	HH	78500	2554569	38.46%	1.382%
294	16.382	16.358	16.395	HH	73611	1609046	24.22%	0.870%
295	16.401	16.395	16.406	HH	73394	474649	7.15%	0.257%
296	16.413	16.406	16.420	HH	74622	600086	9.03%	0.325%
297	16.432	16.420	16.449	HH	75382	1266620	19.07%	0.685%
298	16.453	16.449	16.458	HH	71811	407597	6.14%	0.220%
299	16.511	16.458	16.536	HH	85933	3674459	55.32%	1.988%

rteres								
300	16.541	16.536	16.555	HH	80921	937408	14.11%	0.507%
301	16.571	16.555	16.585	HH	84536	1482160	22.31%	0.802%
302	16.610	16.585	16.617	HH	91993	1637226	24.65%	0.886%
303	16.623	16.617	16.644	HH	92358	1443338	21.73%	0.781%
304	16.655	16.644	16.665	HH	89450	1145459	17.25%	0.620%
305	16.695	16.665	16.738	HH	119145	4378798	65.92%	2.369%
306	16.793	16.738	16.810	HH	208847	5547611	83.52%	3.001%
307	16.818	16.810	16.857	HH	145900	3237889	48.75%	1.751%
308	16.922	16.857	16.946	HH	131994	5860579	88.23%	3.170%
309	16.960	16.946	16.963	HH	112183	1128131	16.98%	0.610%
310	16.970	16.963	17.002	HH	114887	2550046	38.39%	1.379%
311	17.008	17.002	17.013	HH	111432	740083	11.14%	0.400%
312	17.028	17.013	17.034	HH	112286	1386701	20.88%	0.750%
313	17.043	17.034	17.060	HH	113108	1680644	25.30%	0.909%
314	17.113	17.060	17.138	HH	190352	6642132	100.00%	3.593%
315	17.172	17.138	17.200	HH	212248	5544959	83.48%	2.999%
316	17.203	17.200	17.210	HH	119619	706861	10.64%	0.382%
317	17.245	17.210	17.255	HH	128481	3258957	49.06%	1.763%
318	17.272	17.255	17.292	HH	159041	3260429	49.09%	1.764%
319	17.308	17.292	17.354	HH	145349	5208109	78.41%	2.817%
320	17.378	17.354	17.387	HH	137074	2626923	39.55%	1.421%
321	17.390	17.387	17.397	HH	136122	810132	12.20%	0.438%
322	17.411	17.397	17.420	HH	141853	1912112	28.79%	1.034%
323	17.425	17.420	17.446	HH	140781	2146456	32.32%	1.161%
324	17.477	17.446	17.500	HHA	150538	4816293	72.51%	2.605%
Sum of corrected areas:						184865952		

FF061325.M Thu Jul 03 06:39:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016083.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:05
Operator : YP\AJ
Sample : Q2458-05
Misc :
ALS Vial : 87 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-66

A

B

C

D

E

F

G

Integration File: autoint1.e
Quant Time: Jul 03 03:24:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.098	1373726	11.377 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

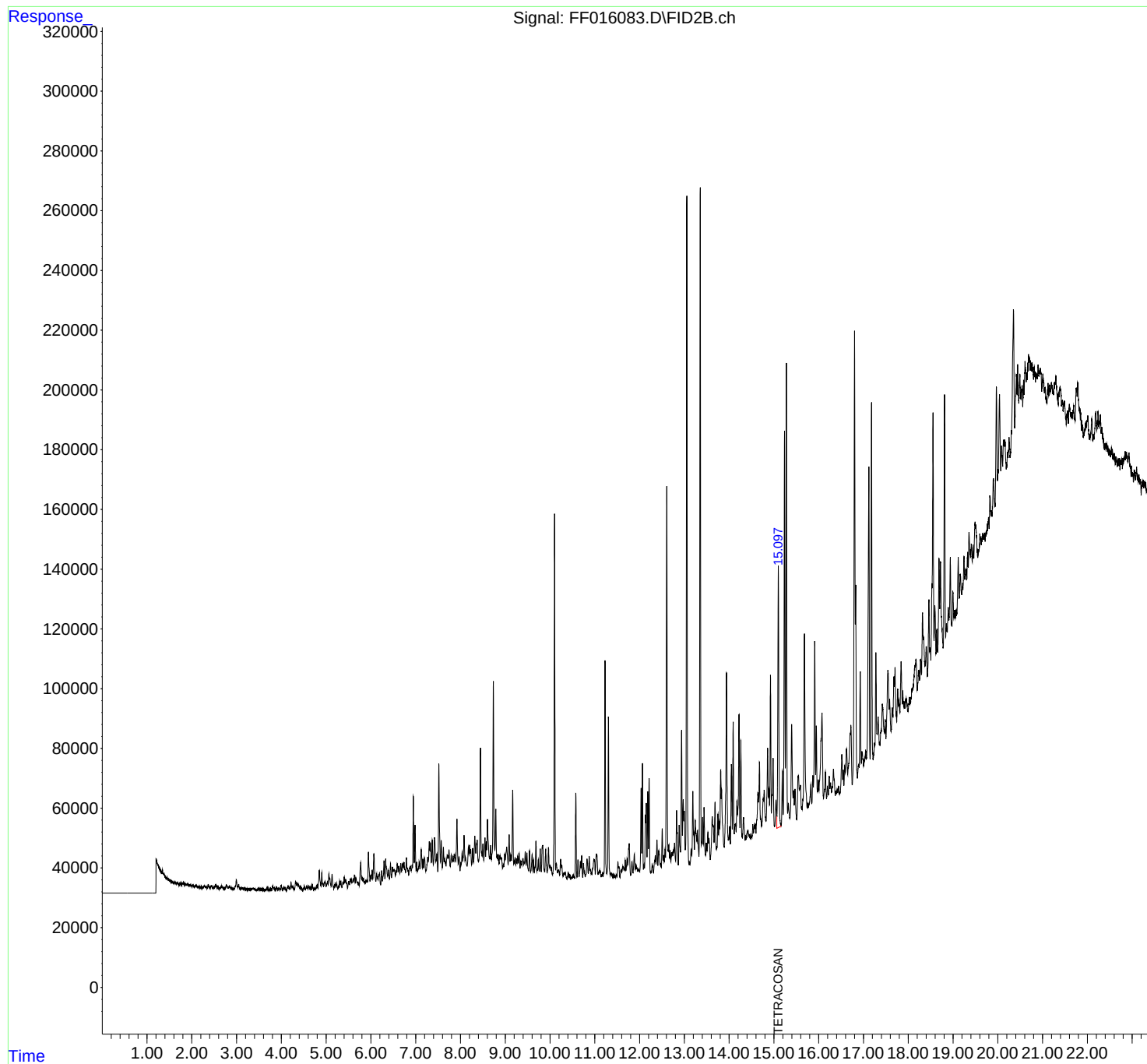
(m)=manual int.

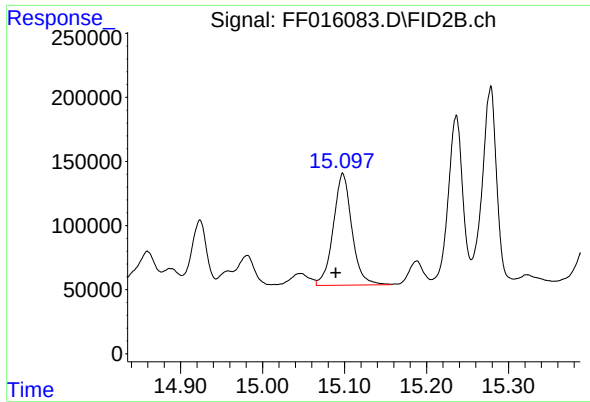
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016083.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:05
Operator : YP\AJ
Sample : Q2458-05
Misc :
ALS Vial : 87 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-66

Integration File: autoint1.e
Quant Time: Jul 03 03:24:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.098 min
Delta R.T.: 0.009 min
Response: 1373726
Conc: 11.38 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-66

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016083.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:05
Sample : Q2458-05
Misc :
ALS Vial : 87 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.512	4.470	4.532	HH	1444	28251	0.72%	0.019%
2	4.569	4.532	4.588	HH	1402	34861	0.89%	0.023%
3	4.618	4.588	4.641	HH	1537	33623	0.86%	0.022%
4	4.654	4.641	4.670	HH	1269	16297	0.42%	0.011%
5	4.691	4.670	4.720	HH	1783	31305	0.80%	0.021%
6	4.749	4.720	4.760	HH	773	14582	0.37%	0.010%
7	4.797	4.760	4.815	HH	1671	39372	1.00%	0.026%
8	4.847	4.815	4.886	HH	6880	149320	3.81%	0.098%
9	4.903	4.886	4.921	HH	6150	76736	1.96%	0.050%
10	4.927	4.921	4.942	HH	2583	27047	0.69%	0.018%
11	4.961	4.942	4.970	HH	2703	37164	0.95%	0.024%
12	4.979	4.970	5.002	HH	2937	42487	1.08%	0.028%
13	5.033	5.002	5.046	HH	2945	61409	1.57%	0.040%
14	5.062	5.046	5.076	HH	5672	76564	1.95%	0.050%
15	5.080	5.076	5.111	HH	4033	60446	1.54%	0.040%
16	5.133	5.111	5.174	HH	5605	99706	2.54%	0.066%
17	5.201	5.174	5.219	HH	2171	46616	1.19%	0.031%
18	5.236	5.219	5.261	HH	2641	43716	1.12%	0.029%
19	5.302	5.261	5.317	HH	3355	64561	1.65%	0.042%
20	5.330	5.317	5.353	HH	3299	48514	1.24%	0.032%
21	5.375	5.353	5.388	HH	2979	45037	1.15%	0.030%
22	5.404	5.388	5.418	HH	4659	61892	1.58%	0.041%
23	5.439	5.418	5.480	HH	3390	95548	2.44%	0.063%
24	5.504	5.480	5.520	HH	3236	56070	1.43%	0.037%
25	5.540	5.520	5.552	HH	3943	59641	1.52%	0.039%
26	5.562	5.552	5.579	HH	4048	54707	1.40%	0.036%
27	5.604	5.579	5.618	HH	4013	77574	1.98%	0.051%
28	5.634	5.618	5.651	HH	5361	80904	2.06%	0.053%
29	5.666	5.651	5.694	HH	4201	87633	2.24%	0.058%
30	5.699	5.694	5.715	HH	2822	32726	0.84%	0.022%
31	5.729	5.715	5.742	HH	2589	35598	0.91%	0.023%
32	5.773	5.742	5.797	HH	9528	194551	4.97%	0.128%
33	5.808	5.797	5.822	HH	4469	57879	1.48%	0.038%
34	5.835	5.822	5.870	HH	4224	92556	2.36%	0.061%
35	5.888	5.870	5.903	HH	3600	60821	1.55%	0.040%
36	5.912	5.903	5.922	HH	3419	36434	0.93%	0.024%

rteres								
37	5.945	5.922	5.980	HH	12957	249465	6.37%	0.164%
38	5.995	5.980	6.011	HH	5216	83188	2.12%	0.055%
39	6.028	6.011	6.042	HH	6940	100223	2.56%	0.066%
40	6.067	6.042	6.110	HH	12410	291754	7.45%	0.192%
41	6.129	6.110	6.142	HH	5703	90081	2.30%	0.059%
42	6.147	6.142	6.161	HH	4692	48385	1.23%	0.032%
43	6.193	6.161	6.218	HH	5974	149553	3.82%	0.098%
44	6.241	6.218	6.260	HH	6716	111816	2.85%	0.074%
45	6.293	6.260	6.312	HH	9961	192596	4.92%	0.127%
46	6.330	6.312	6.373	HH	10708	265592	6.78%	0.175%
47	6.391	6.373	6.411	HH	6945	126778	3.24%	0.083%
48	6.437	6.411	6.461	HH	9247	183158	4.67%	0.120%
49	6.481	6.461	6.492	HH	8019	122312	3.12%	0.080%
50	6.501	6.492	6.510	HH	7121	75432	1.93%	0.050%
51	6.520	6.510	6.546	HH	6984	136237	3.48%	0.090%
52	6.562	6.546	6.570	HH	6673	86554	2.21%	0.057%
53	6.588	6.570	6.606	HH	9155	166371	4.25%	0.109%
54	6.620	6.606	6.647	HH	8184	174120	4.44%	0.115%
55	6.667	6.647	6.684	HH	9215	166270	4.24%	0.109%
56	6.713	6.684	6.728	HH	9103	211584	5.40%	0.139%
57	6.739	6.728	6.775	HH	9495	221650	5.66%	0.146%
58	6.792	6.775	6.806	HH	11141	160692	4.10%	0.106%
59	6.810	6.806	6.824	HH	7687	79219	2.02%	0.052%
60	6.829	6.824	6.844	HH	6920	72158	1.84%	0.047%
61	6.868	6.844	6.874	HH	7595	122237	3.12%	0.080%
62	6.883	6.874	6.898	HH	8149	109215	2.79%	0.072%
63	6.921	6.898	6.929	HH	8556	141565	3.61%	0.093%
64	6.947	6.929	6.968	HH	31659	420631	10.74%	0.277%
65	6.985	6.968	7.008	HH	22041	334797	8.54%	0.220%
66	7.020	7.008	7.035	HH	9638	126350	3.22%	0.083%
67	7.077	7.035	7.094	HH	9704	276304	7.05%	0.182%
68	7.123	7.094	7.148	HH	13897	342024	8.73%	0.225%
69	7.161	7.148	7.175	HH	10406	146676	3.74%	0.096%
70	7.197	7.175	7.223	HH	11132	262397	6.70%	0.173%
71	7.266	7.223	7.279	HH	11248	291879	7.45%	0.192%
72	7.303	7.279	7.318	HH	16457	312228	7.97%	0.205%
73	7.328	7.318	7.349	HH	15860	248634	6.35%	0.164%
74	7.369	7.349	7.395	HH	16998	333867	8.52%	0.220%
75	7.424	7.395	7.450	HH	17787	439385	11.21%	0.289%
76	7.473	7.450	7.495	HH	12381	268720	6.86%	0.177%
77	7.517	7.495	7.552	HH	42512	735709	18.78%	0.484%
78	7.569	7.552	7.595	HH	16938	311523	7.95%	0.205%
79	7.619	7.595	7.634	HH	14613	262879	6.71%	0.173%
80	7.645	7.634	7.658	HH	10782	144360	3.68%	0.095%
81	7.663	7.658	7.678	HH	9819	109668	2.80%	0.072%
82	7.705	7.678	7.730	HH	12013	342010	8.73%	0.225%
83	7.743	7.730	7.772	HH	13759	272983	6.97%	0.180%
84	7.794	7.772	7.821	HH	12067	306092	7.81%	0.201%
85	7.834	7.821	7.851	HH	11614	192944	4.92%	0.127%
86	7.871	7.851	7.894	HH	11992	281788	7.19%	0.185%
87	7.922	7.894	7.950	HH	24001	502560	12.83%	0.331%
88	7.966	7.950	7.990	HH	11389	234968	6.00%	0.155%
89	8.008	7.990	8.017	HH	9431	135817	3.47%	0.089%

rteres								
90	8.037	8.017	8.051	HH	13013	225307	5.75%	0.148%
91	8.080	8.051	8.102	HH	18583	411496	10.50%	0.271%
92	8.112	8.102	8.148	HH	11129	266155	6.79%	0.175%
93	8.178	8.148	8.192	HH	14731	306141	7.81%	0.201%
94	8.205	8.192	8.220	HH	15358	229122	5.85%	0.151%
95	8.229	8.220	8.249	HH	13945	206137	5.26%	0.136%
96	8.273	8.249	8.292	HH	14266	290261	7.41%	0.191%
97	8.320	8.292	8.343	HH	18313	429885	10.97%	0.283%
98	8.374	8.343	8.400	HH	16931	477585	12.19%	0.314%
99	8.446	8.400	8.483	HH	47679	952780	24.32%	0.627%
100	8.501	8.483	8.521	HH	15720	296799	7.57%	0.195%
101	8.548	8.521	8.563	HH	17707	348288	8.89%	0.229%
102	8.576	8.563	8.587	HH	16475	211755	5.40%	0.139%
103	8.603	8.587	8.655	HH	23966	640393	16.34%	0.421%
104	8.673	8.655	8.690	HH	15202	270729	6.91%	0.178%
105	8.735	8.690	8.770	HH	70103	1248095	31.85%	0.821%
106	8.789	8.770	8.812	HH	27330	468706	11.96%	0.308%
107	8.822	8.812	8.835	HH	11970	153145	3.91%	0.101%
108	8.845	8.835	8.864	HH	12125	188246	4.80%	0.124%
109	8.878	8.864	8.888	HH	11733	158719	4.05%	0.104%
110	8.897	8.888	8.908	HH	11180	126826	3.24%	0.083%
111	8.913	8.908	8.940	HH	11111	186112	4.75%	0.122%
112	8.956	8.940	8.966	HH	8658	130588	3.33%	0.086%
113	8.987	8.966	9.000	HH	12378	212225	5.42%	0.140%
114	9.033	9.000	9.065	HH	14731	467644	11.94%	0.308%
115	9.088	9.065	9.108	HH	18765	354486	9.05%	0.233%
116	9.123	9.108	9.140	HH	12073	208184	5.31%	0.137%
117	9.167	9.140	9.189	HH	33755	561396	14.33%	0.369%
118	9.197	9.189	9.205	HH	9600	89945	2.30%	0.059%
119	9.220	9.205	9.234	HH	11106	169735	4.33%	0.112%
120	9.250	9.234	9.263	HH	10836	171614	4.38%	0.113%
121	9.278	9.263	9.295	HH	11656	200211	5.11%	0.132%
122	9.311	9.295	9.330	HH	12522	221513	5.65%	0.146%
123	9.351	9.330	9.370	HH	9939	209092	5.34%	0.138%
124	9.399	9.370	9.412	HH	10804	247678	6.32%	0.163%
125	9.422	9.412	9.431	HH	9758	106836	2.73%	0.070%
126	9.447	9.431	9.467	HH	13106	231669	5.91%	0.152%
127	9.485	9.467	9.521	HH	12673	299029	7.63%	0.197%
128	9.542	9.521	9.567	HH	13436	260664	6.65%	0.171%
129	9.601	9.567	9.620	HH	12171	281122	7.17%	0.185%
130	9.633	9.620	9.650	HH	10347	145746	3.72%	0.096%
131	9.686	9.650	9.707	HH	16652	335391	8.56%	0.221%
132	9.739	9.707	9.762	HH	10372	258504	6.60%	0.170%
133	9.781	9.762	9.805	HH	13983	241054	6.15%	0.159%
134	9.837	9.805	9.880	HH	15059	476934	12.17%	0.314%
135	9.903	9.880	9.934	HH	13921	310269	7.92%	0.204%
136	9.966	9.934	9.986	HH	14549	294234	7.51%	0.194%
137	9.995	9.986	10.022	HH	8521	172529	4.40%	0.114%
138	10.030	10.022	10.056	HH	7653	132911	3.39%	0.087%
139	10.102	10.056	10.124	HH	126075	1515350	38.68%	0.997%
140	10.140	10.124	10.170	HH	9166	214428	5.47%	0.141%
141	10.196	10.170	10.216	HH	7052	177350	4.53%	0.117%

					rteres			
142	10.237	10.216	10.254	HH	10510	192274	4.91%	0.126%
143	10.263	10.254	10.291	HH	8628	148264	3.78%	0.098%
144	10.314	10.291	10.325	HH	5839	115263	2.94%	0.076%
145	10.340	10.325	10.379	HH	6231	164939	4.21%	0.109%
146	10.405	10.379	10.433	HH	6010	162447	4.15%	0.107%
147	10.445	10.433	10.462	HH	5430	82680	2.11%	0.054%
148	10.486	10.462	10.498	HH	4603	91658	2.34%	0.060%
149	10.516	10.498	10.533	HH	5379	100135	2.56%	0.066%
150	10.536	10.533	10.551	HH	4594	48197	1.23%	0.032%
151	10.576	10.551	10.602	HH	32438	445362	11.37%	0.293%
152	10.624	10.602	10.649	HH	10443	202553	5.17%	0.133%
153	10.678	10.649	10.691	HH	9744	189990	4.85%	0.125%
154	10.706	10.691	10.729	HH	11730	192128	4.90%	0.126%
155	10.747	10.729	10.788	HH	9245	228108	5.82%	0.150%
156	10.825	10.788	10.854	HH	10672	295409	7.54%	0.194%
157	10.875	10.854	10.898	HH	11518	219391	5.60%	0.144%
158	10.904	10.898	10.933	HH	7141	131470	3.36%	0.086%
159	10.977	10.933	10.985	HH	10636	256744	6.55%	0.169%
160	10.992	10.985	11.010	HH	10407	131687	3.36%	0.087%
161	11.044	11.010	11.072	HH	12298	351414	8.97%	0.231%
162	11.103	11.072	11.113	HH	6904	153640	3.92%	0.101%
163	11.122	11.113	11.143	HH	6475	102293	2.61%	0.067%
164	11.170	11.143	11.184	HH	5664	128171	3.27%	0.084%
165	11.197	11.184	11.202	HH	5960	59385	1.52%	0.039%
166	11.229	11.202	11.268	HH	77114	967225	24.69%	0.636%
167	11.304	11.268	11.345	HH	58160	837638	21.38%	0.551%
168	11.361	11.345	11.388	HH	5964	142323	3.63%	0.094%
169	11.402	11.388	11.463	HH	5180	221471	5.65%	0.146%
170	11.482	11.463	11.496	HH	5287	97731	2.49%	0.064%
171	11.516	11.496	11.527	HH	9655	141877	3.62%	0.093%
172	11.536	11.527	11.560	HH	8149	133003	3.39%	0.087%
173	11.591	11.560	11.603	HH	7076	159649	4.07%	0.105%
174	11.625	11.603	11.650	HH	8125	206779	5.28%	0.136%
175	11.656	11.650	11.663	HH	7276	58049	1.48%	0.038%
176	11.679	11.663	11.695	HH	10315	162531	4.15%	0.107%
177	11.721	11.695	11.739	HH	10818	236584	6.04%	0.156%
178	11.768	11.739	11.801	HH	15779	408720	10.43%	0.269%
179	11.830	11.801	11.853	HH	9721	228364	5.83%	0.150%
180	11.883	11.853	11.903	HH	12298	275477	7.03%	0.181%
181	11.921	11.903	11.933	HH	8802	141458	3.61%	0.093%
182	11.938	11.933	11.967	HH	7754	148073	3.78%	0.097%
183	11.982	11.967	11.999	HH	7283	131628	3.36%	0.087%
184	12.034	11.999	12.049	HH	34389	511723	13.06%	0.337%
185	12.065	12.049	12.086	HH	42634	513179	13.10%	0.338%
186	12.096	12.086	12.110	HH	8612	116246	2.97%	0.076%
187	12.131	12.110	12.138	HH	25480	298919	7.63%	0.197%
188	12.149	12.138	12.166	HH	29328	366340	9.35%	0.241%
189	12.183	12.166	12.197	HH	33182	418161	10.67%	0.275%
190	12.213	12.197	12.248	HH	37531	556118	14.19%	0.366%
191	12.252	12.248	12.260	HH	6153	42968	1.10%	0.028%
192	12.282	12.260	12.310	HH	8461	217384	5.55%	0.143%
193	12.351	12.310	12.366	HH	11873	316449	8.08%	0.208%
194	12.389	12.366	12.408	HH	16907	303753	7.75%	0.200%

rteres								
195	12.427	12.408	12.484	HH	13426	474091	12.10%	0.312%
196	12.506	12.484	12.524	HH	20830	336533	8.59%	0.221%
197	12.536	12.524	12.551	HH	11875	172378	4.40%	0.113%
198	12.569	12.551	12.580	HH	14029	209706	5.35%	0.138%
199	12.608	12.580	12.639	HH	135681	1929966	49.26%	1.270%
200	12.653	12.639	12.671	HH	15442	258091	6.59%	0.170%
201	12.683	12.671	12.699	HH	13509	198912	5.08%	0.131%
202	12.714	12.699	12.726	HH	12810	189333	4.83%	0.125%
203	12.736	12.726	12.746	HH	13018	150758	3.85%	0.099%
204	12.760	12.746	12.768	HH	13787	173523	4.43%	0.114%
205	12.781	12.768	12.806	HH	15988	293974	7.50%	0.193%
206	12.827	12.806	12.866	HH	26695	609828	15.56%	0.401%
207	12.885	12.866	12.915	HH	22022	457079	11.67%	0.301%
208	12.939	12.915	12.957	HH	53893	816190	20.83%	0.537%
209	12.975	12.957	12.989	HH	30653	492442	12.57%	0.324%
210	12.999	12.989	13.021	HH	26640	405737	10.36%	0.267%
211	13.055	13.021	13.104	HH	232520	3138360	80.10%	2.065%
212	13.113	13.104	13.125	HH	9726	117854	3.01%	0.078%
213	13.152	13.125	13.166	HH	13970	277509	7.08%	0.183%
214	13.190	13.166	13.226	HH	33322	749538	19.13%	0.493%
215	13.243	13.226	13.280	HH	23613	627701	16.02%	0.413%
216	13.294	13.280	13.326	HH	20209	451679	11.53%	0.297%
217	13.355	13.326	13.379	HH	235334	2915583	74.41%	1.918%
218	13.408	13.379	13.424	HH	24638	501274	12.79%	0.330%
219	13.440	13.424	13.472	HH	27913	553671	14.13%	0.364%
220	13.490	13.472	13.507	HH	15984	301256	7.69%	0.198%
221	13.526	13.507	13.540	HH	19566	329757	8.42%	0.217%
222	13.552	13.540	13.579	HH	17479	343160	8.76%	0.226%
223	13.624	13.579	13.664	HH	24885	940099	23.99%	0.618%
224	13.686	13.664	13.715	HH	29669	642044	16.39%	0.422%
225	13.723	13.715	13.728	HH	14839	115240	2.94%	0.076%
226	13.751	13.728	13.765	HH	25720	443760	11.33%	0.292%
227	13.780	13.765	13.792	HH	23264	341815	8.72%	0.225%
228	13.812	13.792	13.824	HH	40552	634935	16.21%	0.418%
229	13.832	13.824	13.885	HH	33924	850766	21.71%	0.560%
230	13.942	13.885	13.982	HH	72928	1837856	46.91%	1.209%
231	14.012	13.982	14.028	HH	21617	513905	13.12%	0.338%
232	14.051	14.028	14.071	HH	42308	764031	19.50%	0.503%
233	14.090	14.071	14.113	HH	56251	893613	22.81%	0.588%
234	14.139	14.113	14.156	HH	22428	544812	13.90%	0.358%
235	14.174	14.156	14.188	HH	30121	496257	12.67%	0.326%
236	14.221	14.188	14.242	HH	59021	1166741	29.78%	0.768%
237	14.262	14.242	14.297	HH	50225	957703	24.44%	0.630%
238	14.319	14.297	14.356	HH	24521	736117	18.79%	0.484%
239	14.372	14.356	14.385	HH	18434	315519	8.05%	0.208%
240	14.421	14.385	14.442	HH	20195	646713	16.51%	0.425%
241	14.451	14.442	14.464	HH	18827	249920	6.38%	0.164%
242	14.469	14.464	14.487	HH	18472	243447	6.21%	0.160%
243	14.499	14.487	14.504	HH	18244	184481	4.71%	0.121%
244	14.528	14.504	14.543	HH	22250	471767	12.04%	0.310%
245	14.563	14.543	14.571	HH	21810	351385	8.97%	0.231%
246	14.585	14.571	14.598	HH	22390	337303	8.61%	0.222%

rteres								
247	14.646	14.598	14.658	HH	32827	964924	24.63%	0.635%
248	14.677	14.658	14.722	HH	42996	1140630	29.11%	0.750%
249	14.762	14.722	14.768	HH	30886	727659	18.57%	0.479%
250	14.782	14.768	14.824	HH	33592	936945	23.91%	0.616%
251	14.860	14.824	14.877	HH	47707	1112497	28.39%	0.732%
252	14.888	14.877	14.902	HH	34045	475819	12.14%	0.313%
253	14.924	14.902	14.944	HH	72145	1173420	29.95%	0.772%
254	14.958	14.944	14.963	HH	32330	348774	8.90%	0.229%
255	14.981	14.963	15.011	HH	44384	944444	24.10%	0.621%
256	15.047	15.011	15.066	HH	30314	847412	21.63%	0.557%
257	15.098	15.066	15.157	HH	108616	2535144	64.70%	1.668%
258	15.188	15.157	15.206	HH	40031	858187	21.90%	0.565%
259	15.236	15.206	15.255	HH	153024	2263000	57.76%	1.489%
260	15.278	15.255	15.307	HH	177214	2579164	65.83%	1.697%
261	15.322	15.307	15.354	HH	29285	762390	19.46%	0.502%
262	15.396	15.354	15.427	HH	55737	1614521	41.21%	1.062%
263	15.439	15.427	15.455	HH	33527	543318	13.87%	0.357%
264	15.471	15.455	15.505	HH	34049	874075	22.31%	0.575%
265	15.539	15.505	15.544	HH	38415	720296	18.38%	0.474%
266	15.550	15.544	15.571	HH	38422	574237	14.66%	0.378%
267	15.591	15.571	15.614	HH	35275	854095	21.80%	0.562%
268	15.619	15.614	15.632	HH	27993	293565	7.49%	0.193%
269	15.681	15.632	15.740	HH	85982	2802880	71.54%	1.844%
270	15.753	15.740	15.768	HH	28912	461191	11.77%	0.303%
271	15.824	15.768	15.844	HH	35575	1426047	36.40%	0.938%
272	15.870	15.844	15.881	HH	38652	759080	19.37%	0.499%
273	15.911	15.881	15.932	HH	83475	1667812	42.57%	1.097%
274	15.948	15.932	15.976	HH	55120	1113819	28.43%	0.733%
275	15.991	15.976	16.007	HH	37194	651086	16.62%	0.428%
276	16.073	16.007	16.108	HH	59492	2674818	68.27%	1.760%
277	16.150	16.108	16.175	HH	39796	1392185	35.53%	0.916%
278	16.196	16.175	16.217	HH	34900	827988	21.13%	0.545%
279	16.235	16.217	16.251	HH	38240	730746	18.65%	0.481%
280	16.267	16.251	16.284	HH	36096	691491	17.65%	0.455%
281	16.330	16.284	16.370	HH	40647	1840874	46.98%	1.211%
282	16.378	16.370	16.393	HH	33479	453000	11.56%	0.298%
283	16.412	16.393	16.426	HH	33866	664776	16.97%	0.437%
284	16.443	16.426	16.470	HH	34977	891422	22.75%	0.586%
285	16.516	16.470	16.536	HH	45681	1517525	38.73%	0.998%
286	16.548	16.536	16.563	HH	40453	619162	15.80%	0.407%
287	16.581	16.563	16.595	HH	41923	748775	19.11%	0.493%
288	16.623	16.595	16.647	HH	47497	1365183	34.84%	0.898%
289	16.704	16.647	16.711	HH	52701	1725790	44.05%	1.135%
290	16.719	16.711	16.752	HH	55215	1152601	29.42%	0.758%
291	16.801	16.752	16.818	HH	186697	3605302	92.02%	2.372%
292	16.827	16.818	16.864	HH	102170	1744987	44.54%	1.148%
293	16.895	16.864	16.905	HH	42082	993669	25.36%	0.654%
294	16.928	16.905	16.951	HH	73404	1524682	38.91%	1.003%
295	16.967	16.951	16.972	HH	46625	567109	14.47%	0.373%
296	16.977	16.972	17.001	HH	46108	762730	19.47%	0.502%
297	17.048	17.001	17.062	HH	47056	1626111	41.50%	1.070%
298	17.121	17.062	17.148	HH	141494	3918140	100.00%	2.578%
299	17.180	17.148	17.218	HH	163586	3347713	85.44%	2.202%

						rteres		
300	17.251	17.218	17.257	HH	49452	1101775	28.12%	0.725%
301	17.278	17.257	17.308	HH	79698	1885594	48.12%	1.240%
302	17.328	17.308	17.366	HH	58145	1873487	47.82%	1.233%
303	17.423	17.366	17.472	HH	62497	3518476	89.80%	2.315%
304	17.486	17.472	17.501	HHA	56969	976326	24.92%	0.642%
					Sum of corrected areas:		152006964	

FF061325.M Thu Jul 03 06:53:15 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016084.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:34
Operator : YP\AJ
Sample : Q2458-06
Misc :
ALS Vial : 88 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-60

A
B
C
D
E
F
G

Integration File: autoint1.e
Quant Time: Jul 03 03:24:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.099	1348756	11.170 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

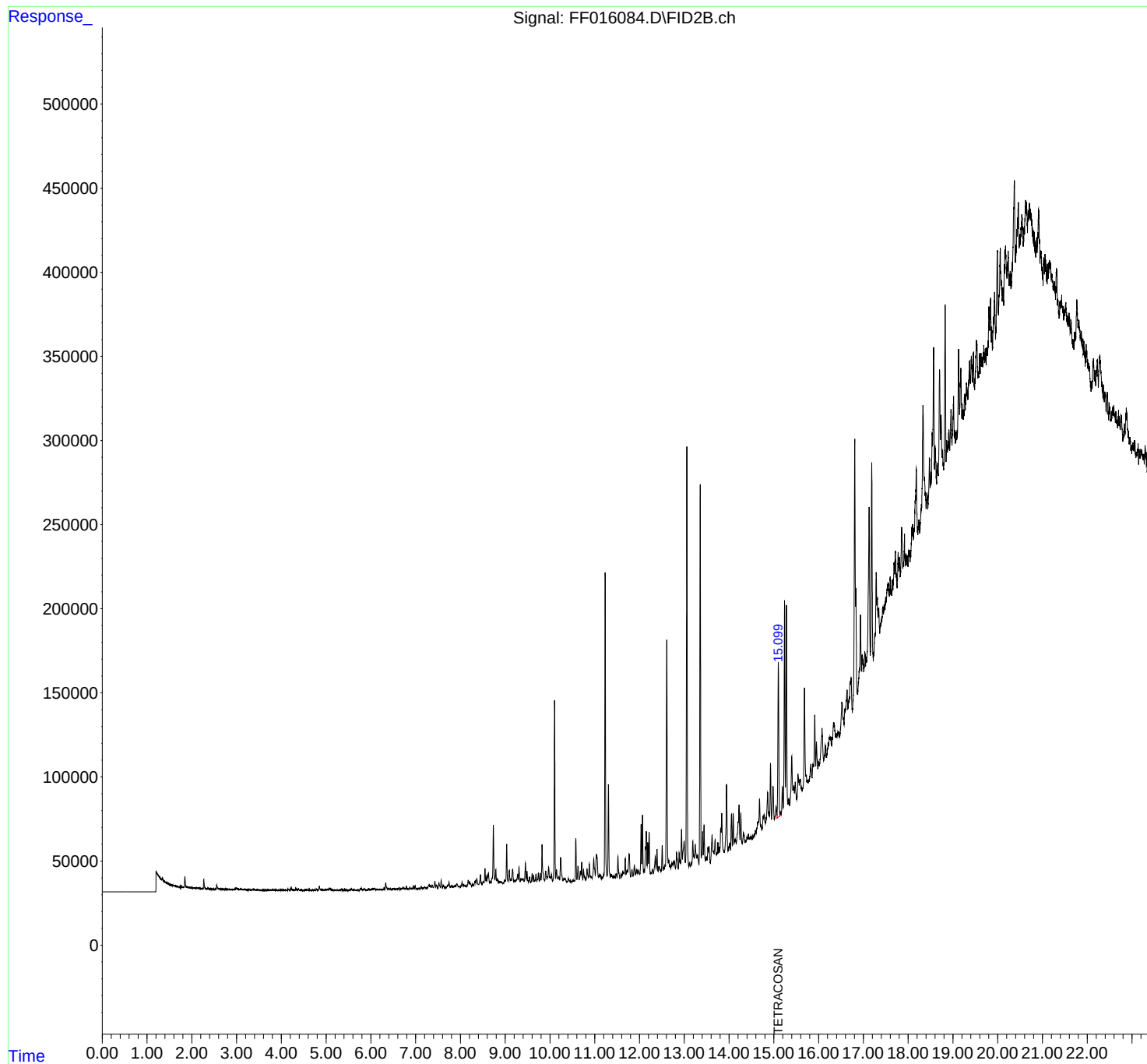
(m)=manual int.

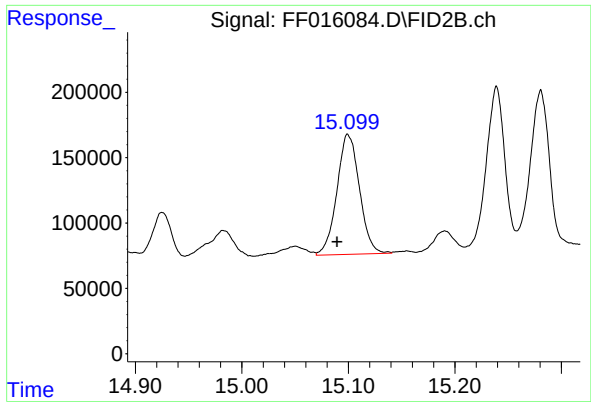
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016084.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:34
Operator : YP\AJ
Sample : Q2458-06
Misc :
ALS Vial : 88 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-60

Integration File: autoint1.e
Quant Time: Jul 03 03:24:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.099 min
Delta R.T.: 0.010 min
Response: 1348756
Conc: 11.17 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-60

A
B
C
D
E
F
G

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016084.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:34
Sample : Q2458-06
Misc :
ALS Vial : 88 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.544	4.520	4.550	HH	1113	18322	0.21%	0.008%
2	4.571	4.550	4.597	HH	1310	31528	0.37%	0.013%
3	4.621	4.597	4.644	HH	1521	32393	0.38%	0.014%
4	4.652	4.644	4.674	HH	1143	18828	0.22%	0.008%
5	4.694	4.674	4.715	HH	1207	25732	0.30%	0.011%
6	4.741	4.715	4.763	HH	1240	29524	0.35%	0.012%
7	4.781	4.763	4.819	HH	1365	37956	0.44%	0.016%
8	4.849	4.819	4.892	HH	3396	76263	0.89%	0.032%
9	4.904	4.892	4.919	HH	1372	20141	0.24%	0.008%
10	4.929	4.919	4.950	HH	1267	21747	0.25%	0.009%
11	4.986	4.950	5.009	HH	1335	43495	0.51%	0.018%
12	5.029	5.009	5.036	HH	1402	22557	0.26%	0.009%
13	5.042	5.036	5.049	HH	1379	9995	0.12%	0.004%
14	5.064	5.049	5.075	HH	1757	25897	0.30%	0.011%
15	5.081	5.075	5.084	HH	1686	8298	0.10%	0.003%
16	5.088	5.084	5.112	HH	1687	24412	0.29%	0.010%
17	5.126	5.112	5.183	HH	1291	45799	0.54%	0.019%
18	5.200	5.183	5.214	HH	1020	17269	0.20%	0.007%
19	5.243	5.214	5.270	HH	1250	35527	0.42%	0.015%
20	5.274	5.270	5.286	HH	1022	9209	0.11%	0.004%
21	5.305	5.286	5.317	HH	1123	19092	0.22%	0.008%
22	5.334	5.317	5.358	HH	1573	29872	0.35%	0.012%
23	5.374	5.358	5.390	HH	1257	22137	0.26%	0.009%
24	5.406	5.390	5.420	HH	1361	21925	0.26%	0.009%
25	5.425	5.420	5.454	HH	1321	23325	0.27%	0.010%
26	5.462	5.454	5.482	HH	986	15370	0.18%	0.006%
27	5.506	5.482	5.524	HH	1303	25228	0.30%	0.011%
28	5.563	5.524	5.590	HH	2058	50925	0.60%	0.021%
29	5.601	5.590	5.615	HH	1162	15610	0.18%	0.007%
30	5.633	5.615	5.652	HH	1388	25449	0.30%	0.011%
31	5.669	5.652	5.678	HH	1060	15527	0.18%	0.006%
32	5.698	5.678	5.720	HH	1090	24364	0.29%	0.010%
33	5.734	5.720	5.739	HH	947	10273	0.12%	0.004%
34	5.763	5.739	5.775	HH	2052	33517	0.39%	0.014%
35	5.791	5.775	5.822	HH	1998	44930	0.53%	0.019%
36	5.836	5.822	5.850	HH	1665	24146	0.28%	0.010%

					rteres			
37	5.857	5.850	5.871	HH	1454	16094	0.19%	0.007%
38	5.875	5.871	5.902	HH	1283	21520	0.25%	0.009%
39	5.913	5.902	5.927	HH	1240	16983	0.20%	0.007%
40	5.949	5.927	5.974	HH	1825	40629	0.48%	0.017%
41	6.030	5.974	6.046	HH	2134	63146	0.74%	0.026%
42	6.073	6.046	6.114	HH	2277	68268	0.80%	0.028%
43	6.128	6.114	6.142	HH	1609	24555	0.29%	0.010%
44	6.150	6.142	6.162	HH	1410	15768	0.18%	0.007%
45	6.175	6.162	6.184	HH	1490	18260	0.21%	0.008%
46	6.195	6.184	6.215	HH	1545	25942	0.30%	0.011%
47	6.229	6.215	6.254	HH	1406	30606	0.36%	0.013%
48	6.269	6.254	6.275	HH	1461	17464	0.20%	0.007%
49	6.295	6.275	6.313	HH	2587	43943	0.51%	0.018%
50	6.332	6.313	6.381	HH	5582	114555	1.34%	0.048%
51	6.403	6.381	6.420	HH	2017	41551	0.49%	0.017%
52	6.438	6.420	6.462	HH	2039	40409	0.47%	0.017%
53	6.484	6.462	6.492	HH	1768	28425	0.33%	0.012%
54	6.512	6.492	6.546	HH	2041	56651	0.66%	0.024%
55	6.561	6.546	6.569	HH	1573	20210	0.24%	0.008%
56	6.586	6.569	6.604	HH	1942	35316	0.41%	0.015%
57	6.630	6.604	6.649	HH	2624	52871	0.62%	0.022%
58	6.674	6.649	6.695	HH	1899	47170	0.55%	0.020%
59	6.715	6.695	6.729	HH	2391	42804	0.50%	0.018%
60	6.737	6.729	6.775	HH	2227	53348	0.62%	0.022%
61	6.794	6.775	6.824	HH	3417	66297	0.78%	0.028%
62	6.838	6.824	6.848	HH	1786	24843	0.29%	0.010%
63	6.868	6.848	6.895	HH	2949	62849	0.74%	0.026%
64	6.922	6.895	6.933	HH	2197	43919	0.51%	0.018%
65	6.949	6.933	6.968	HH	3625	56995	0.67%	0.024%
66	6.987	6.968	7.012	HH	3202	63547	0.74%	0.027%
67	7.025	7.012	7.035	HH	1857	23628	0.28%	0.010%
68	7.060	7.035	7.066	HH	2058	34099	0.40%	0.014%
69	7.079	7.066	7.095	HH	2183	35815	0.42%	0.015%
70	7.121	7.095	7.151	HH	2690	77664	0.91%	0.032%
71	7.165	7.151	7.180	HH	2560	40853	0.48%	0.017%
72	7.202	7.180	7.221	HH	3149	63491	0.74%	0.027%
73	7.235	7.221	7.245	HH	2327	31458	0.37%	0.013%
74	7.298	7.245	7.318	HH	3995	140174	1.64%	0.059%
75	7.331	7.318	7.352	HH	3973	70281	0.82%	0.029%
76	7.370	7.352	7.395	HH	4088	83224	0.97%	0.035%
77	7.429	7.395	7.447	HH	6347	124958	1.46%	0.052%
78	7.462	7.447	7.499	HH	3979	98230	1.15%	0.041%
79	7.519	7.499	7.551	HH	5527	119785	1.40%	0.050%
80	7.569	7.551	7.595	HH	6879	106807	1.25%	0.045%
81	7.616	7.595	7.637	HH	3750	80033	0.94%	0.033%
82	7.645	7.637	7.659	HH	2934	37292	0.44%	0.016%
83	7.664	7.659	7.677	HH	2720	28615	0.33%	0.012%
84	7.721	7.677	7.729	HH	3829	98730	1.16%	0.041%
85	7.745	7.729	7.770	HH	5813	104369	1.22%	0.044%
86	7.799	7.770	7.824	HH	3399	104752	1.23%	0.044%
87	7.834	7.824	7.849	HH	3399	47273	0.55%	0.020%
88	7.875	7.849	7.892	HH	3665	86732	1.02%	0.036%
89	7.922	7.892	7.953	HH	4987	144326	1.69%	0.060%

					rteres			
90	7.974	7.953	7.990	HH	3340	68673	0.80%	0.029%
91	8.011	7.990	8.016	HH	3389	46898	0.55%	0.020%
92	8.037	8.016	8.070	HH	5765	137634	1.61%	0.057%
93	8.084	8.070	8.103	HH	3985	74841	0.88%	0.031%
94	8.132	8.103	8.148	HH	3702	93319	1.09%	0.039%
95	8.173	8.148	8.192	HH	6882	140086	1.64%	0.058%
96	8.204	8.192	8.222	HH	5967	95468	1.12%	0.040%
97	8.230	8.222	8.252	HH	4809	76047	0.89%	0.032%
98	8.274	8.252	8.294	HH	4814	105321	1.23%	0.044%
99	8.329	8.294	8.344	HH	6429	156859	1.84%	0.065%
100	8.364	8.344	8.393	HH	7708	182736	2.14%	0.076%
101	8.396	8.393	8.411	HH	4700	49461	0.58%	0.021%
102	8.447	8.411	8.483	HH	10285	273088	3.20%	0.114%
103	8.509	8.483	8.525	HH	6317	138692	1.62%	0.058%
104	8.549	8.525	8.567	HH	13939	225112	2.64%	0.094%
105	8.577	8.567	8.590	HH	8569	105749	1.24%	0.044%
106	8.606	8.590	8.614	HH	10002	122717	1.44%	0.051%
107	8.626	8.614	8.655	HH	11265	204837	2.40%	0.086%
108	8.670	8.655	8.685	HH	5996	102934	1.20%	0.043%
109	8.736	8.685	8.770	HH	39581	722680	8.46%	0.302%
110	8.791	8.770	8.811	HH	13209	227962	2.67%	0.095%
111	8.825	8.811	8.839	HH	8027	120875	1.41%	0.050%
112	8.848	8.839	8.864	HH	6420	88054	1.03%	0.037%
113	8.880	8.864	8.892	HH	6214	101587	1.19%	0.042%
114	8.899	8.892	8.908	HH	6025	55412	0.65%	0.023%
115	8.922	8.908	8.947	HH	5981	130625	1.53%	0.055%
116	8.984	8.947	8.998	HH	6903	177739	2.08%	0.074%
117	9.034	8.998	9.064	HH	28373	484907	5.68%	0.202%
118	9.090	9.064	9.112	HH	12351	263450	3.08%	0.110%
119	9.125	9.112	9.138	HH	7508	110301	1.29%	0.046%
120	9.167	9.138	9.189	HH	13456	301938	3.53%	0.126%
121	9.199	9.189	9.209	HH	6648	79161	0.93%	0.033%
122	9.222	9.209	9.236	HH	6953	103608	1.21%	0.043%
123	9.254	9.236	9.260	HH	7364	102503	1.20%	0.043%
124	9.277	9.260	9.292	HH	10563	169485	1.98%	0.071%
125	9.309	9.292	9.334	HH	14766	248145	2.90%	0.104%
126	9.351	9.334	9.365	HH	8053	133128	1.56%	0.056%
127	9.400	9.365	9.415	HH	7910	222872	2.61%	0.093%
128	9.452	9.415	9.472	HH	17175	346836	4.06%	0.145%
129	9.488	9.472	9.521	HH	12243	249403	2.92%	0.104%
130	9.544	9.521	9.569	HH	8958	206433	2.42%	0.086%
131	9.603	9.569	9.621	HH	10781	239375	2.80%	0.100%
132	9.636	9.621	9.652	HH	9785	145480	1.70%	0.061%
133	9.687	9.652	9.706	HH	10743	256127	3.00%	0.107%
134	9.720	9.706	9.725	HH	7485	80901	0.95%	0.034%
135	9.742	9.725	9.760	HH	11156	185827	2.18%	0.078%
136	9.783	9.760	9.801	HH	11138	204728	2.40%	0.085%
137	9.824	9.801	9.883	HH	28196	622788	7.29%	0.260%
138	9.905	9.883	9.935	HH	12436	294119	3.44%	0.123%
139	9.945	9.935	9.952	HH	9071	86301	1.01%	0.036%
140	9.970	9.952	9.995	HH	14736	299619	3.51%	0.125%
141	10.004	9.995	10.017	HH	8914	114679	1.34%	0.048%

rteres								
142	10.034	10.017	10.057	HH	10599	203827	2.39%	0.085%
143	10.103	10.057	10.125	HH	113895	1405864	16.46%	0.587%
144	10.147	10.125	10.177	HH	13214	309628	3.62%	0.129%
145	10.198	10.177	10.215	HH	8902	188213	2.20%	0.079%
146	10.239	10.215	10.289	HH	20553	524261	6.14%	0.219%
147	10.311	10.289	10.327	HH	8389	174850	2.05%	0.073%
148	10.342	10.327	10.380	HH	7904	218019	2.55%	0.091%
149	10.409	10.380	10.436	HH	7845	228196	2.67%	0.095%
150	10.448	10.436	10.473	HH	6790	142475	1.67%	0.059%
151	10.480	10.473	10.495	HH	6233	80621	0.94%	0.034%
152	10.514	10.495	10.529	HH	7020	131839	1.54%	0.055%
153	10.544	10.529	10.549	HH	6609	79614	0.93%	0.033%
154	10.577	10.549	10.602	HH	31740	487564	5.71%	0.204%
155	10.626	10.602	10.652	HH	15410	316960	3.71%	0.132%
156	10.680	10.652	10.692	HH	12337	237574	2.78%	0.099%
157	10.708	10.692	10.732	HH	17573	304497	3.56%	0.127%
158	10.750	10.732	10.792	HH	13143	343126	4.02%	0.143%
159	10.827	10.792	10.858	HH	13662	387467	4.54%	0.162%
160	10.878	10.858	10.901	HH	16719	312440	3.66%	0.130%
161	10.906	10.901	10.918	HH	9383	93968	1.10%	0.039%
162	10.924	10.918	10.941	HH	8948	115972	1.36%	0.048%
163	10.977	10.941	11.011	HH	19695	551793	6.46%	0.230%
164	11.036	11.011	11.083	HH	22466	689135	8.07%	0.288%
165	11.100	11.083	11.115	HH	10112	184924	2.16%	0.077%
166	11.128	11.115	11.146	HH	10338	170333	1.99%	0.071%
167	11.159	11.146	11.164	HH	8619	87497	1.02%	0.037%
168	11.171	11.164	11.181	HH	8652	89339	1.05%	0.037%
169	11.197	11.181	11.206	HH	10558	140385	1.64%	0.059%
170	11.232	11.206	11.274	HH	189761	2284937	26.75%	0.954%
171	11.306	11.274	11.347	HH	63868	1017558	11.91%	0.425%
172	11.369	11.347	11.415	HH	10352	388986	4.55%	0.162%
173	11.437	11.415	11.458	HH	9513	234641	2.75%	0.098%
174	11.476	11.458	11.498	HH	10857	229245	2.68%	0.096%
175	11.518	11.498	11.562	HH	21017	484759	5.67%	0.202%
176	11.595	11.562	11.606	HH	10084	247687	2.90%	0.103%
177	11.628	11.606	11.637	HH	11619	202948	2.38%	0.085%
178	11.644	11.637	11.659	HH	11486	149422	1.75%	0.062%
179	11.681	11.659	11.699	HH	19886	346673	4.06%	0.145%
180	11.724	11.699	11.737	HH	12850	275733	3.23%	0.115%
181	11.771	11.737	11.803	HH	22402	618421	7.24%	0.258%
182	11.832	11.803	11.855	HH	13264	340437	3.99%	0.142%
183	11.885	11.855	11.907	HH	15814	377211	4.42%	0.157%
184	11.925	11.907	11.930	HH	12208	156240	1.83%	0.065%
185	11.940	11.930	11.962	HH	13244	237728	2.78%	0.099%
186	11.982	11.962	12.004	HH	12586	295287	3.46%	0.123%
187	12.036	12.004	12.051	HH	40042	613405	7.18%	0.256%
188	12.067	12.051	12.088	HH	45711	616701	7.22%	0.257%
189	12.098	12.088	12.111	HH	13149	171843	2.01%	0.072%
190	12.133	12.111	12.139	HH	26992	329016	3.85%	0.137%
191	12.151	12.139	12.168	HH	36008	486219	5.69%	0.203%
192	12.184	12.168	12.199	HH	29440	406788	4.76%	0.170%
193	12.215	12.199	12.242	HH	35407	570229	6.67%	0.238%
194	12.257	12.242	12.269	HH	11398	175682	2.06%	0.073%



					rteres			
195	12.289	12.269	12.312	HH	13318	316248	3.70%	0.132%
196	12.352	12.312	12.371	HH	21068	549510	6.43%	0.229%
197	12.391	12.371	12.413	HH	25406	457545	5.36%	0.191%
198	12.441	12.413	12.478	HH	14887	535956	6.27%	0.224%
199	12.507	12.478	12.527	HH	27565	520460	6.09%	0.217%
200	12.538	12.527	12.553	HH	14520	217753	2.55%	0.091%
201	12.569	12.553	12.579	HH	16079	229131	2.68%	0.096%
202	12.610	12.579	12.643	HH	150316	2295861	26.87%	0.958%
203	12.657	12.643	12.674	HH	18571	318012	3.72%	0.133%
204	12.684	12.674	12.700	HH	15969	233535	2.73%	0.097%
205	12.716	12.700	12.725	HH	16964	244419	2.86%	0.102%
206	12.736	12.725	12.749	HH	16897	232038	2.72%	0.097%
207	12.764	12.749	12.772	HH	17757	235317	2.75%	0.098%
208	12.781	12.772	12.809	HH	17867	358421	4.20%	0.150%
209	12.828	12.809	12.866	HH	23506	626581	7.33%	0.262%
210	12.887	12.866	12.902	HH	23202	406592	4.76%	0.170%
211	12.908	12.902	12.917	HH	17947	154660	1.81%	0.065%
212	12.940	12.917	12.958	HH	37157	655860	7.68%	0.274%
213	12.997	12.958	13.024	HH	29863	943412	11.04%	0.394%
214	13.058	13.024	13.100	HH	264820	3603527	42.18%	1.504%
215	13.118	13.100	13.132	HH	17090	313418	3.67%	0.131%
216	13.154	13.132	13.166	HH	17086	331689	3.88%	0.138%
217	13.191	13.166	13.226	HH	30167	811594	9.50%	0.339%
218	13.244	13.226	13.282	HH	27817	787501	9.22%	0.329%
219	13.296	13.282	13.327	HH	22075	539156	6.31%	0.225%
220	13.357	13.327	13.380	HH	241636	3027205	35.44%	1.264%
221	13.410	13.380	13.426	HH	35986	720984	8.44%	0.301%
222	13.442	13.426	13.475	HH	39611	793321	9.29%	0.331%
223	13.493	13.475	13.510	HH	20987	418056	4.89%	0.175%
224	13.528	13.510	13.538	HH	26487	390037	4.57%	0.163%
225	13.553	13.538	13.580	HH	27288	582765	6.82%	0.243%
226	13.621	13.580	13.665	HH	33966	1267853	14.84%	0.529%
227	13.689	13.665	13.717	HH	31103	808276	9.46%	0.337%
228	13.731	13.717	13.735	HH	23186	253421	2.97%	0.106%
229	13.752	13.735	13.768	HH	29458	508404	5.95%	0.212%
230	13.781	13.768	13.795	HH	26554	409329	4.79%	0.171%
231	13.814	13.795	13.823	HH	38033	540507	6.33%	0.226%
232	13.836	13.823	13.892	HH	46732	1313094	15.37%	0.548%
233	13.944	13.892	13.977	HH	63846	1825577	21.37%	0.762%
234	14.012	13.977	14.027	HH	28661	802653	9.40%	0.335%
235	14.053	14.027	14.074	HH	45926	963901	11.28%	0.402%
236	14.092	14.074	14.113	HH	46341	854091	10.00%	0.357%
237	14.134	14.113	14.141	HH	31252	506918	5.93%	0.212%
238	14.146	14.141	14.162	HH	30810	381363	4.46%	0.159%
239	14.223	14.162	14.243	HH	51858	1870215	21.89%	0.781%
240	14.262	14.243	14.295	HH	46803	1116865	13.07%	0.466%
241	14.326	14.295	14.359	HH	34688	1220347	14.28%	0.509%
242	14.403	14.359	14.409	HH	32318	925698	10.84%	0.386%
243	14.431	14.409	14.454	HH	34497	879124	10.29%	0.367%
244	14.460	14.454	14.466	HH	31849	221527	2.59%	0.092%
245	14.480	14.466	14.488	HH	32920	430908	5.04%	0.180%
246	14.502	14.488	14.517	HH	32777	575012	6.73%	0.240%

rteres								
247	14.530	14.517	14.545	HH	33705	542674	6.35%	0.227%
248	14.566	14.545	14.575	HH	34644	601980	7.05%	0.251%
249	14.588	14.575	14.603	HH	36763	596717	6.98%	0.249%
250	14.649	14.603	14.654	HH	41656	1182902	13.85%	0.494%
251	14.680	14.654	14.707	HH	55117	1441689	16.88%	0.602%
252	14.715	14.707	14.734	HH	39593	617542	7.23%	0.258%
253	14.761	14.734	14.771	HH	45279	922146	10.79%	0.385%
254	14.788	14.771	14.802	HH	45538	835095	9.78%	0.349%
255	14.807	14.802	14.813	HH	41848	268170	3.14%	0.112%
256	14.862	14.813	14.882	HH	59159	2034196	23.81%	0.849%
257	14.887	14.882	14.904	HH	47371	600992	7.03%	0.251%
258	14.925	14.904	14.947	HH	76413	1494211	17.49%	0.624%
259	14.983	14.947	15.012	HH	62694	2000999	23.42%	0.835%
260	15.050	15.012	15.070	HH	50666	1629897	19.08%	0.680%
261	15.099	15.070	15.141	HH	136415	3243438	37.97%	1.354%
262	15.155	15.141	15.164	HH	47117	637397	7.46%	0.266%
263	15.191	15.164	15.209	HH	62352	1478727	17.31%	0.617%
264	15.239	15.209	15.258	HH	173070	2922805	34.21%	1.220%
265	15.281	15.258	15.317	HH	169975	3279583	38.39%	1.369%
266	15.333	15.317	15.349	HH	55585	1045572	12.24%	0.436%
267	15.354	15.349	15.358	HH	52910	275311	3.22%	0.115%
268	15.399	15.358	15.433	HH	80497	2912198	34.09%	1.216%
269	15.447	15.433	15.460	HH	63168	993824	11.63%	0.415%
270	15.478	15.460	15.515	HH	65146	1955316	22.89%	0.816%
271	15.539	15.515	15.567	HH	70078	2024429	23.70%	0.845%
272	15.589	15.567	15.635	HH	66944	2604895	30.49%	1.087%
273	15.685	15.635	15.724	HH	121546	4188099	49.02%	1.748%
274	15.727	15.724	15.748	HH	69494	973903	11.40%	0.407%
275	15.759	15.748	15.768	HH	66473	770890	9.02%	0.322%
276	15.826	15.768	15.853	HH	75856	3550031	41.56%	1.482%
277	15.876	15.853	15.881	HH	75893	1214925	14.22%	0.507%
278	15.914	15.881	15.935	HH	105034	2804599	32.83%	1.171%
279	15.951	15.935	15.982	HH	88458	2262026	26.48%	0.944%
280	16.004	15.982	16.015	HH	77655	1506577	17.64%	0.629%
281	16.077	16.015	16.113	HH	97110	4978846	58.28%	2.078%
282	16.119	16.113	16.123	HH	80021	489451	5.73%	0.204%
283	16.151	16.123	16.172	HH	87077	2435819	28.51%	1.017%
284	16.177	16.172	16.190	HH	82017	853932	10.00%	0.356%
285	16.246	16.190	16.260	HH	92124	3747420	43.87%	1.564%
286	16.264	16.260	16.269	HH	91127	453805	5.31%	0.189%
287	16.273	16.269	16.294	HH	91984	1339499	15.68%	0.559%
288	16.335	16.294	16.341	HH	100473	2674182	31.30%	1.116%
289	16.347	16.341	16.388	HH	100543	2726840	31.92%	1.138%
290	16.448	16.388	16.462	HH	95261	4121812	48.25%	1.721%
291	16.467	16.462	16.471	HH	94224	509922	5.97%	0.213%
292	16.474	16.471	16.477	HH	94196	339135	3.97%	0.142%
293	16.521	16.477	16.552	HH	112314	4707853	55.11%	1.965%
294	16.556	16.552	16.569	HH	103342	1012117	11.85%	0.423%
295	16.587	16.569	16.601	HH	108553	2032373	23.79%	0.848%
296	16.637	16.601	16.656	HH	120048	3741633	43.80%	1.562%
297	16.704	16.656	16.717	HH	125071	4299915	50.33%	1.795%
298	16.728	16.717	16.754	HH	127067	2594514	30.37%	1.083%
299	16.808	16.754	16.825	HH	268142	7027300	82.26%	2.934%

					rteres			
300	16.832	16.825	16.874	HH	179993	4127203	48.31%	1.723%
301	16.911	16.874	16.915	HH	132160	3134979	36.70%	1.309%
302	16.937	16.915	16.959	HH	164906	3838915	44.94%	1.603%
303	16.976	16.959	17.010	HH	140560	4117124	48.19%	1.719%
304	17.031	17.010	17.050	HH	142209	3326800	38.94%	1.389%
305	17.058	17.050	17.071	HH	139832	1719878	20.13%	0.718%
306	17.129	17.071	17.154	HH	228195	8542924	100.00%	3.566%
307	17.188	17.154	17.222	HH	254985	7160762	83.82%	2.989%
308	17.263	17.222	17.266	HH	153254	3884416	45.47%	1.622%
309	17.287	17.266	17.302	HH	189845	3767087	44.10%	1.573%
310	17.312	17.302	17.326	HH	174556	2425297	28.39%	1.012%
311	17.344	17.326	17.366	HH	168509	3865442	45.25%	1.614%
312	17.381	17.366	17.385	HH	159270	1858920	21.76%	0.776%
313	17.405	17.385	17.412	HH	162020	2569131	30.07%	1.072%
314	17.435	17.412	17.448	HH	169266	3598934	42.13%	1.502%
315	17.460	17.448	17.466	HH	170028	1737115	20.33%	0.725%
316	17.478	17.466	17.483	HH	171058	1822144	21.33%	0.761%
Sum of corrected areas:					239552652			

FF061325.M Thu Jul 03 06:54:49 2025