

LAB CHRONICLE

OrderID:	Q2473	OrderDate:	7/1/2025 12:14:15 PM
Client:	JPCL Engineering	Project:	NOHO RFI No. SC64025 NYC
Contact:	Paul Rotondi	Location:	--Select--,A12,A43,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2473-01	PIT#1	SOIL			07/01/25			07/01/25
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
			TPH GC	8015D		07/10/25	07/10/25	
Q2473-02	PIT#2	SOIL			07/01/25			07/01/25
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
			TPH GC	8015D		07/10/25	07/11/25	
Q2473-03	PIT#3	SOIL			07/01/25			07/01/25
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
			TPH GC	8015D		07/10/25	07/11/25	
Q2473-04	PIT#4	SOIL			07/01/25			07/01/25
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
			TPH GC	8015D		07/10/25	07/10/25	



SAMPLE DATA

Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/01/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/01/25
Client Sample ID:	PIT#1	SDG No.:	Q2473
Lab Sample ID:	Q2473-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016277.D	10	07/10/25 09:00	07/10/25 15:42	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	133000		4260	31400	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	1.50		37 - 130	75%	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:	JPCL Engineering	Date Collected:	07/01/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/01/25
Client Sample ID:	PIT#2	SDG No.:	Q2473
Lab Sample ID:	Q2473-02	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016292.D	10	07/10/25 09:00	07/11/25 9:39	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	141000		4250	31400	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	1.35		37 - 130	68%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/01/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/01/25
Client Sample ID:	PIT#3	SDG No.:	Q2473
Lab Sample ID:	Q2473-03	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	88.4
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016293.D	5	07/10/25 09:00	07/11/25 10:09	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	104000		2170	16000	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	2.25		37 - 130	56%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/01/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/01/25
Client Sample ID:	PIT#4	SDG No.:	Q2473
Lab Sample ID:	Q2473-04	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90.7
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016139.D	1	07/10/25 09:00	07/10/25 16:12	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	17300		423	3120	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	15.9		37 - 130	79%	SPK: 20

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QC SUMMARY

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Alliance

Client: JPCL Engineering

Lab Code: ACE

SDG No.: Q2473

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016136.D	101				0
PIBLK-FF016144.D	107				0
PIBLK-FG016271.D	95				0
PIBLK-FG016280.D	96				0
PIBLK-FG016289.D	119				0
PIBLK-FG016294.D	93				0
PB168785BL	93				0
PB168785BS	94				0
PIT#1	75				0
PIT#2	68				0
PIT#3	56				0
PIT#4	79				0
PIT#4MS	62				0
PIT#4MSD	62				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130

For Soil : 37-130

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted Out

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance

Client: JPCL Engineering

Lab Code: ACE

SDG No: Q2473

Client Sample ID : PIT#4MS

Datafile: FF016140.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12475	17300	26567	74%		68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>JPCL Engineering</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2473</u>
Client Sample ID :	<u>PIT#4MSD</u>	Datafile:	<u>FF016141.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12487	17300	27090	78%		68-131

MS/MSD % Recovery RPD : 5.4

SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance

Client: JPCL Engineering

Lab Code: ACE

SDG No: Q2473

Client Sample ID : PB168785BS

Datafile: FG016275.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
Petroleum Hydrocarbons	11330	0	9997	88	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168785BL

Lab Name: Alliance

Contract: JPCL01

Lab Code: ACE

SDG NO.: Q2473

Lab File ID: FG016274.D

Lab Sample ID: PB168785BL

Instrument ID: FG

Date Extracted: 07/10/2025

Matrix: (soil/water) Soil

Date Analyzed: 07/10/25

Level: (low/med) low

Time Analyzed: 13:43

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PIT#4	Q2473-04	FF016139.D	07/10/25
PIT#4MS	Q2473-04MS	FF016140.D	07/10/25
PIT#4MSD	Q2473-04MSD	FF016141.D	07/10/25
PB168785BS	PB168785BS	FG016275.D	07/10/25
PIT#1	Q2473-01	FG016277.D	07/10/25
PIT#2	Q2473-02	FG016292.D	07/11/25
PIT#3	Q2473-03	FG016293.D	07/11/25

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NOHO RFI No. SC64025 NYC	Date Received:	
Client Sample ID:	PB168785BL	SDG No.:	Q2473
Lab Sample ID:	PB168785BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016274.D	1	07/10/25 09:00	07/10/25 13:43	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.5		37 - 130	93%	SPK: 20

Comments:

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/10/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/10/25
Client Sample ID:	PIBLK-FF016136.D	SDG No.:	Q2473
Lab Sample ID:	I.BLK-FF016136.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016136.D	1		07/10/25	FF071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	20.2		29 - 130	101%	SPK: 20

Comments:

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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:	JPCL Engineering	Date Collected:	07/10/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/10/25
Client Sample ID:	PIBLK-FF016144.D	SDG No.:	Q2473
Lab Sample ID:	I.BLK-FF016144.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016144.D	1		07/10/25	FF071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	21.3		29 - 130	107%	SPK: 20

Comments:

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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

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D = Dilution

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() = Laboratory InHouse Limit

Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/10/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/10/25
Client Sample ID:	PIBLK-FG016271.D	SDG No.:	Q2473
Lab Sample ID:	I.BLK-FG016271.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016271.D	1		07/10/25	FG071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.9		29 - 130	95%	SPK: 20

Comments:

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/10/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/10/25
Client Sample ID:	PIBLK-FG016280.D	SDG No.:	Q2473
Lab Sample ID:	I.BLK-FG016280.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016280.D	1		07/10/25	FG071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.1		29 - 130	96%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/11/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/11/25
Client Sample ID:	PIBLK-FG016289.D	SDG No.:	Q2473
Lab Sample ID:	I.BLK-FG016289.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016289.D	1		07/11/25	FG071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	23.8		29 - 130	119%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/11/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/11/25
Client Sample ID:	PIBLK-FG016294.D	SDG No.:	Q2473
Lab Sample ID:	I.BLK-FG016294.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016294.D	1		07/11/25	FG071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.6		29 - 130	93%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NOHO RFI No. SC64025 NYC	Date Received:	
Client Sample ID:	PB168785BS	SDG No.:	Q2473
Lab Sample ID:	PB168785BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016275.D	1	07/10/25 09:00	07/10/25 14:13	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	10000		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.8		37 - 130	94%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/01/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/01/25
Client Sample ID:	PIT#4MS	SDG No.:	Q2473
Lab Sample ID:	Q2473-04MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016140.D	1	07/10/25 09:00	07/10/25 16:42	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	26600		423	3120	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.4		37 - 130	62%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	JPCL Engineering	Date Collected:	07/01/25
Project:	NOHO RFI No. SC64025 NYC	Date Received:	07/01/25
Client Sample ID:	PIT#4MSD	SDG No.:	Q2473
Lab Sample ID:	Q2473-04MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016141.D	1	07/10/25 09:00	07/10/25 17:12	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	27100		423	3120	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.5		37 - 130	62%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Contract: JPCL01
 ProjectID: NOHO RFI No. SC64025 NYC
 Lab Code: ACE SDG No.: Q2473

Calibration Sequence : FF071025		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	164684190	96873	FF016130.D
850	89059595	104776	FF016131.D
340	36559731	107529	FF016132.D
170	19906477	117097	FF016133.D
85	9088990	106929	FF016134.D
AVG RF : 106641		% RSD : 6.78	AVG RT : 15.1002

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Contract: JPCL01
 ProjectID: NOHO RFI No. SC64025 NYC
 Lab Code: ACE SDG No.: Q2473

Calibration Sequence : FG070925		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	164717398	96893	FG016264.D
850	83171210	97848	FG016265.D
340	35101863	103241	FG016266.D
170	18639349	109643	FG016267.D
85	9352448	110029	FG016268.D
AVG RF : 103531		% RSD : 6.032	AVG RT : 15.201

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: JPCL01
ProjectID: NOHO RFI No. SC64025 NYC
Lab Code: ACE SDG No.: Q2473
DataFile: FF016137.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	80684234	94923	106641	10.988

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: JPCL01
ProjectID: NOHO RFI No. SC64025 NYC
Lab Code: ACE SDG No.: Q2473
DataFile: FF016145.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	99480292	117036	106641	9.748

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: JPCL01
ProjectID: NOHO RFI No. SC64025 NYC
Lab Code: ACE SDG No.: Q2473
DataFile: FG016272.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	98219150	115552	103531	11.611

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: JPCL01
ProjectID: NOHO RFI No. SC64025 NYC
Lab Code: ACE SDG No.: Q2473
DataFile: FG016281.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	80120065	94259	103531	8.956

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: JPCL01
ProjectID: NOHO RFI No. SC64025 NYC
Lab Code: ACE SDG No.: Q2473
DataFile: FG016290.D Analyst Name: YP\AJ Analyst Date: 07-11-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	102882275	121038	103531	16.91

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: JPCL01
ProjectID: NOHO RFI No. SC64025 NYC
Lab Code: ACE SDG No.: Q2473
DataFile: FG016295.D Analyst Name: YP\AJ Analyst Date: 07-11-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	103034749	121217	103531	17.083

Analytical Sequence

Client: JPCL Engineering

SDG No.: Q2473

Project: NOHO RFI No. SC64025 NYC

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 15.1002					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	10 Jul 2025 13:43	FF016136.D	15.097	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 15:12	FF016137.D	15.100	
PIT#4	Q2473-04	10 Jul 2025 16:12	FF016139.D	15.097	
PIT#4MS	Q2473-04MS	10 Jul 2025 16:42	FF016140.D	15.096	
PIT#4MSD	Q2473-04MSD	10 Jul 2025 17:12	FF016141.D	15.097	
PIBLK02	LBLK02	10 Jul 2025 18:41	FF016144.D	15.098	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 20:11	FF016145.D	15.099	
PIBLK03	LBLK03	10 Jul 2025 10:45	FG016271.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 12:44	FG016272.D	15.201	
PB168785BL	PB168785BL	10 Jul 2025 13:43	FG016274.D	15.197	
PB168785BS	PB168785BS	10 Jul 2025 14:13	FG016275.D	15.197	
PIT#1	Q2473-01	10 Jul 2025 15:42	FG016277.D	15.201	
PIBLK04	LBLK04	10 Jul 2025 17:12	FG016280.D	15.211	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 18:41	FG016281.D	15.210	
PIBLK05	LBLK05	11 Jul 2025 08:11	FG016289.D	15.204	
50 PPM TRPH STD	50 PPM TRPH STD	11 Jul 2025 08:40	FG016290.D	15.208	
PIT#2	Q2473-02	11 Jul 2025 09:39	FG016292.D	15.292	
PIT#3	Q2473-03	11 Jul 2025 10:09	FG016293.D	15.205	
PIBLK06	LBLK06	11 Jul 2025 10:39	FG016294.D	15.205	
50 PPM TRPH STD	50 PPM TRPH STD	11 Jul 2025 11:08	FG016295.D	15.208	

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

QC Limits
(± 0.10 minutes)

Lower Limit
15.101

Upper Limits
15.301

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016276.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 14:43
Operator : YP\AJ
Sample : Q2473-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PIT#1

A

B

C

D

E

F

G

Integration File: autoint1.e
Quant Time: Jul 11 04:14:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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...	15.199	1545239	15.455 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

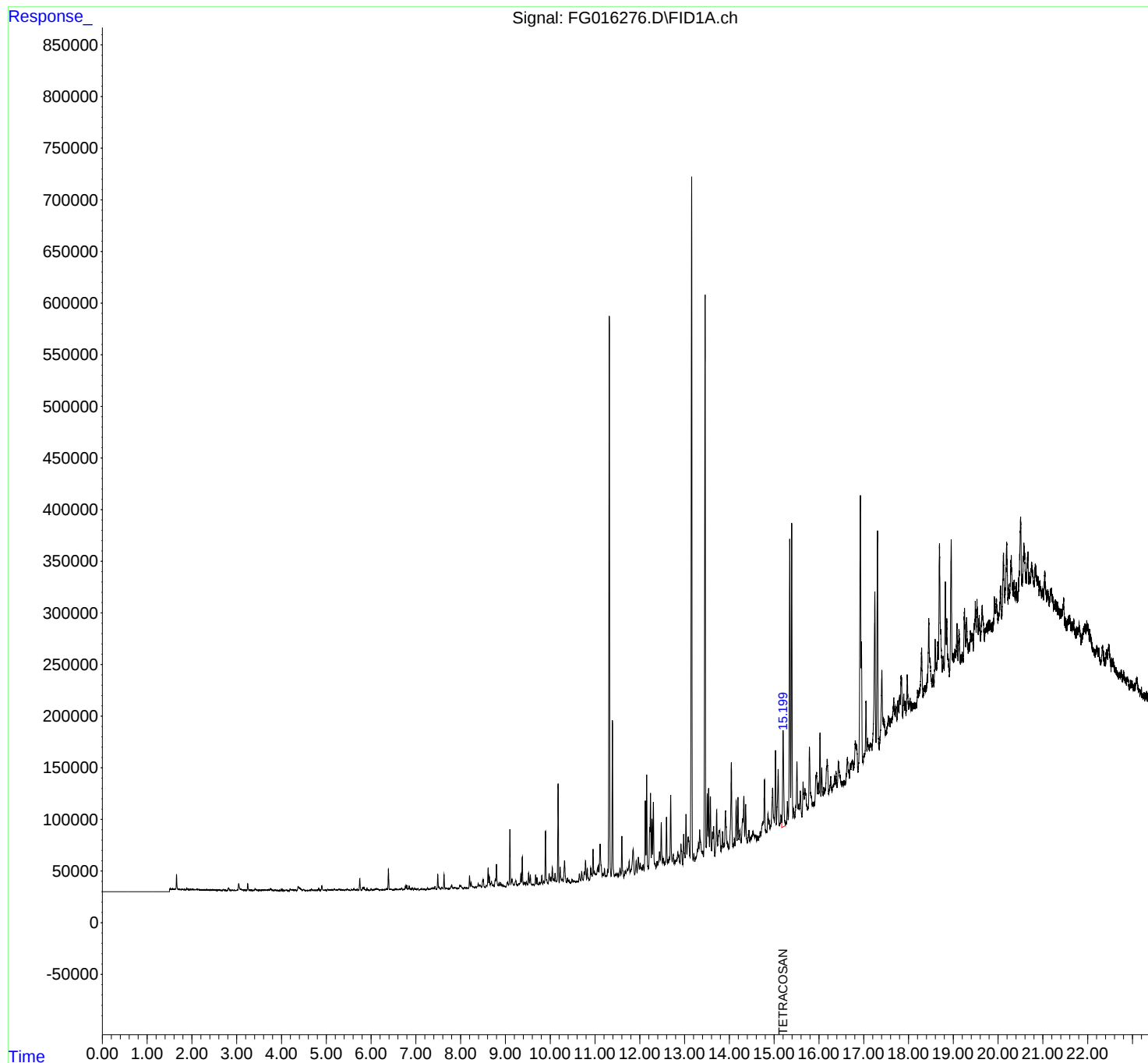
(m)=manual int.

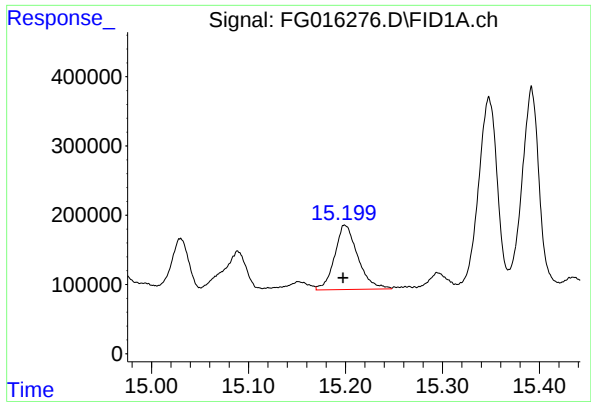
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016276.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 14:43
Operator : YP\AJ
Sample : Q2473-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PIT#1

Integration File: autoint1.e
Quant Time: Jul 11 04:14:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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.: 15.199 min
Delta R.T.: 0.002 min
Response: 1545239
Conc: 15.45 ug/ml

Instrument :
FID_G
ClientSampleId :
PIT#1

A
B
C
D
E
F
G

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016276.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 14:43
Sample : Q2473-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.018	2.000	2.053	BV	135	2533	0.03%	0.001%
2	2.059	2.053	2.082	VV	136	1450	0.02%	0.000%
3	2.102	2.082	2.148	PV	483	9983	0.11%	0.003%
4	2.152	2.148	2.169	VV	271	1940	0.02%	0.001%
5	2.180	2.169	2.191	VV	185	1680	0.02%	0.000%
6	2.193	2.191	2.199	VV	147	546	0.01%	0.000%
7	2.203	2.199	2.228	VV	165	1546	0.02%	0.000%
8	2.231	2.228	2.236	VV	138	561	0.01%	0.000%
9	2.240	2.236	2.255	VV	113	546	0.01%	0.000%
10	2.264	2.255	2.278	VV	145	1272	0.01%	0.000%
11	2.288	2.278	2.292	VV	216	1349	0.02%	0.000%
12	2.297	2.292	2.304	VV	230	1043	0.01%	0.000%
13	2.321	2.304	2.375	VV	400	9407	0.11%	0.003%
14	2.408	2.375	2.447	VV	754	11503	0.13%	0.003%
15	2.459	2.447	2.504	VV	871	15344	0.17%	0.004%
16	2.510	2.504	2.530	VV	104	635	0.01%	0.000%
17	2.544	2.530	2.562	PV	204	2123	0.02%	0.001%
18	2.603	2.562	2.642	VV	576	10492	0.12%	0.003%
19	2.646	2.642	2.652	VV	116	477	0.01%	0.000%
20	2.669	2.652	2.684	PV	218	2085	0.02%	0.001%
21	2.704	2.684	2.770	VV	1238	20048	0.23%	0.006%
22	2.774	2.770	2.791	VV	103	333	0.00%	0.000%
23	2.815	2.791	2.864	PV	2437	40923	0.46%	0.011%
24	2.869	2.864	2.877	VV	121	619	0.01%	0.000%
25	2.896	2.877	2.928	PV	372	7717	0.09%	0.002%
26	2.932	2.928	2.938	VV	217	1115	0.01%	0.000%
27	2.945	2.938	2.966	VV	409	4558	0.05%	0.001%
28	2.974	2.966	2.989	VV	235	2613	0.03%	0.001%
29	3.014	2.989	3.019	VV	574	6329	0.07%	0.002%
30	3.044	3.019	3.083	VV	6786	118279	1.34%	0.032%
31	3.095	3.083	3.118	VV	1546	22390	0.25%	0.006%
32	3.137	3.118	3.167	VV	1042	18180	0.21%	0.005%
33	3.180	3.167	3.197	VV	446	6092	0.07%	0.002%
34	3.216	3.197	3.227	VV	307	4259	0.05%	0.001%
35	3.244	3.227	3.293	VV	7025	85217	0.97%	0.023%
36	3.297	3.293	3.323	VV	530	6623	0.08%	0.002%

					rteres			
37	3.329	3.323	3.342	VV	344	3081	0.03%	0.001%
38	3.345	3.342	3.354	VV	235	1552	0.02%	0.000%
39	3.381	3.354	3.386	VV	299	4506	0.05%	0.001%
40	3.410	3.386	3.504	VV	2116	48237	0.55%	0.013%
41	3.525	3.504	3.540	VV	495	8994	0.10%	0.002%
42	3.552	3.540	3.568	VV	506	7033	0.08%	0.002%
43	3.585	3.568	3.603	VV	481	9718	0.11%	0.003%
44	3.638	3.603	3.657	VV	683	18353	0.21%	0.005%
45	3.659	3.657	3.671	VV	639	4973	0.06%	0.001%
46	3.700	3.671	3.711	VV	674	14054	0.16%	0.004%
47	3.729	3.711	3.733	VV	933	10665	0.12%	0.003%
48	3.753	3.733	3.793	VV	1798	42711	0.48%	0.012%
49	3.799	3.793	3.821	VV	440	5878	0.07%	0.002%
50	3.824	3.821	3.842	VV	290	2854	0.03%	0.001%
51	3.856	3.842	3.883	VV	777	11955	0.14%	0.003%
52	3.896	3.883	3.913	VV	535	6802	0.08%	0.002%
53	3.920	3.913	3.928	VV	263	1989	0.02%	0.001%
54	3.943	3.928	3.977	VV	383	7446	0.08%	0.002%
55	3.996	3.977	4.013	VV	1188	15002	0.17%	0.004%
56	4.020	4.013	4.036	VV	746	7105	0.08%	0.002%
57	4.047	4.036	4.075	VV	537	7255	0.08%	0.002%
58	4.096	4.075	4.160	VV	776	16175	0.18%	0.004%
59	4.191	4.160	4.230	PV	1923	37159	0.42%	0.010%
60	4.239	4.230	4.288	VV	1052	24603	0.28%	0.007%
61	4.298	4.288	4.346	VV	641	13709	0.16%	0.004%
62	4.371	4.346	4.400	VV	4147	85209	0.97%	0.023%
63	4.412	4.400	4.459	VV	2785	57766	0.66%	0.016%
64	4.470	4.459	4.478	VV	663	6771	0.08%	0.002%
65	4.496	4.478	4.522	VV	1499	20847	0.24%	0.006%
66	4.529	4.522	4.542	VV	266	2521	0.03%	0.001%
67	4.568	4.542	4.582	VV	376	6697	0.08%	0.002%
68	4.586	4.582	4.598	VV	278	2303	0.03%	0.001%
69	4.624	4.598	4.646	VV	448	9145	0.10%	0.003%
70	4.669	4.646	4.690	VV	1919	23637	0.27%	0.006%
71	4.707	4.690	4.726	VV	926	11386	0.13%	0.003%
72	4.745	4.726	4.770	VV	665	10178	0.12%	0.003%
73	4.794	4.770	4.812	VV	565	9425	0.11%	0.003%
74	4.833	4.812	4.872	VV	2639	33629	0.38%	0.009%
75	4.901	4.872	4.938	VV	4922	69361	0.79%	0.019%
76	4.956	4.938	4.970	VV	739	9577	0.11%	0.003%
77	4.983	4.970	5.010	VV	630	9482	0.11%	0.003%
78	5.034	5.010	5.057	VV	1547	22347	0.25%	0.006%
79	5.089	5.057	5.105	VV	753	17924	0.20%	0.005%
80	5.120	5.105	5.129	VV	733	8582	0.10%	0.002%
81	5.133	5.129	5.152	VV	681	8402	0.10%	0.002%
82	5.175	5.152	5.207	VV	1101	27200	0.31%	0.007%
83	5.220	5.207	5.236	VV	763	11366	0.13%	0.003%
84	5.287	5.236	5.308	VV	1535	42548	0.48%	0.012%
85	5.323	5.308	5.348	VV	1001	15905	0.18%	0.004%
86	5.380	5.348	5.402	VV	866	19623	0.22%	0.005%
87	5.430	5.402	5.446	VV	1170	17831	0.20%	0.005%
88	5.463	5.446	5.476	VV	1635	18535	0.21%	0.005%
89	5.490	5.476	5.508	VV	1017	15772	0.18%	0.004%

					rteres			
90	5.516	5.508	5.536	VV	585	5561	0.06%	0.002%
91	5.558	5.536	5.573	PV	951	11717	0.13%	0.003%
92	5.579	5.573	5.598	VV	645	8649	0.10%	0.002%
93	5.616	5.598	5.644	VV	2120	26985	0.31%	0.007%
94	5.661	5.644	5.671	VV	790	10688	0.12%	0.003%
95	5.688	5.671	5.707	VV	1121	15868	0.18%	0.004%
96	5.718	5.707	5.729	VV	443	4357	0.05%	0.001%
97	5.748	5.729	5.794	VV	11619	132271	1.50%	0.036%
98	5.813	5.794	5.827	VV	3176	35807	0.41%	0.010%
99	5.843	5.827	5.858	VV	3271	40735	0.46%	0.011%
100	5.863	5.858	5.885	VV	1071	11097	0.13%	0.003%
101	5.889	5.885	5.892	VV	384	1424	0.02%	0.000%
102	5.909	5.892	5.964	VV	2299	28953	0.33%	0.008%
103	6.002	5.964	6.029	VV	1624	21770	0.25%	0.006%
104	6.056	6.029	6.070	VV	756	13226	0.15%	0.004%
105	6.086	6.070	6.097	VV	1397	15585	0.18%	0.004%
106	6.107	6.097	6.117	VV	1530	15098	0.17%	0.004%
107	6.129	6.117	6.142	VV	1932	22187	0.25%	0.006%
108	6.152	6.142	6.192	VV	1057	19897	0.23%	0.005%
109	6.205	6.192	6.217	VV	687	7231	0.08%	0.002%
110	6.225	6.217	6.231	VV	678	4560	0.05%	0.001%
111	6.233	6.231	6.239	VV	488	2039	0.02%	0.001%
112	6.245	6.239	6.264	VV	491	6257	0.07%	0.002%
113	6.269	6.264	6.280	VV	447	4068	0.05%	0.001%
114	6.298	6.280	6.307	VV	729	8847	0.10%	0.002%
115	6.351	6.307	6.366	VV	1600	32846	0.37%	0.009%
116	6.388	6.366	6.416	VV	20560	204813	2.32%	0.056%
117	6.437	6.416	6.449	VV	1128	17268	0.20%	0.005%
118	6.458	6.449	6.479	VV	819	9883	0.11%	0.003%
119	6.496	6.479	6.513	VV	767	8887	0.10%	0.002%
120	6.538	6.513	6.552	PV	1123	15594	0.18%	0.004%
121	6.559	6.552	6.566	VV	994	7372	0.08%	0.002%
122	6.577	6.566	6.605	VV	1049	16953	0.19%	0.005%
123	6.619	6.605	6.634	VV	910	10423	0.12%	0.003%
124	6.646	6.634	6.655	VV	801	8656	0.10%	0.002%
125	6.659	6.655	6.663	VV	738	3497	0.04%	0.001%
126	6.683	6.663	6.719	VV	1813	30956	0.35%	0.008%
127	6.738	6.719	6.744	VV	525	6461	0.07%	0.002%
128	6.766	6.744	6.782	VV	3995	48121	0.55%	0.013%
129	6.798	6.782	6.818	VV	4498	51759	0.59%	0.014%
130	6.851	6.818	6.872	VV	3950	58709	0.67%	0.016%
131	6.885	6.872	6.903	VV	1546	17609	0.20%	0.005%
132	6.923	6.903	6.951	VV	2362	29467	0.33%	0.008%
133	6.967	6.951	6.989	VV	1571	21153	0.24%	0.006%
134	7.004	6.989	7.020	VV	1119	12720	0.14%	0.003%
135	7.047	7.020	7.072	VV	1239	20726	0.24%	0.006%
136	7.078	7.072	7.090	VV	234	1161	0.01%	0.000%
137	7.115	7.090	7.120	PV	566	7013	0.08%	0.002%
138	7.136	7.120	7.153	VV	1364	14564	0.17%	0.004%
139	7.174	7.153	7.210	VV	970	17222	0.20%	0.005%
140	7.221	7.210	7.230	PV	175	1440	0.02%	0.000%
141	7.261	7.230	7.278	VV	2014	23122	0.26%	0.006%

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142	7.296	7.278	7.317	VV	495	8588	0.10%	0.002%
143	7.335	7.317	7.349	VV	1282	17166	0.19%	0.005%
144	7.361	7.349	7.370	VV	1334	15293	0.17%	0.004%
145	7.389	7.370	7.407	VV	1937	28563	0.32%	0.008%
146	7.426	7.407	7.459	VV	3099	41414	0.47%	0.011%
147	7.489	7.459	7.507	VV	14821	158738	1.80%	0.044%
148	7.516	7.507	7.535	VV	2614	32622	0.37%	0.009%
149	7.539	7.535	7.557	VV	1291	10420	0.12%	0.003%
150	7.577	7.557	7.608	VV	2251	37008	0.42%	0.010%
151	7.629	7.608	7.655	VV	14418	147505	1.67%	0.040%
152	7.671	7.655	7.691	VV	1408	20044	0.23%	0.006%
153	7.701	7.691	7.718	VV	982	11936	0.14%	0.003%
154	7.724	7.718	7.739	VV	527	5249	0.06%	0.001%
155	7.783	7.739	7.789	VV	2114	30970	0.35%	0.008%
156	7.802	7.789	7.835	VV	4208	61785	0.70%	0.017%
157	7.861	7.835	7.882	VV	1443	30887	0.35%	0.008%
158	7.891	7.882	7.911	VV	1228	16206	0.18%	0.004%
159	7.929	7.911	7.951	VV	963	15260	0.17%	0.004%
160	7.980	7.951	7.995	VV	3426	51118	0.58%	0.014%
161	8.009	7.995	8.026	VV	3284	45732	0.52%	0.013%
162	8.035	8.026	8.057	VV	1459	13873	0.16%	0.004%
163	8.097	8.057	8.113	PV	1631	27665	0.31%	0.008%
164	8.138	8.113	8.155	VV	902	18257	0.21%	0.005%
165	8.160	8.155	8.164	VV	336	1692	0.02%	0.000%
166	8.199	8.164	8.217	VV	12581	139087	1.58%	0.038%
167	8.234	8.217	8.277	VV	6231	109060	1.24%	0.030%
168	8.288	8.277	8.310	VV	1529	23128	0.26%	0.006%
169	8.334	8.310	8.352	VV	1283	22352	0.25%	0.006%
170	8.393	8.352	8.410	VV	4682	84140	0.95%	0.023%
171	8.422	8.410	8.433	VV	2950	33896	0.38%	0.009%
172	8.442	8.433	8.457	VV	2471	30479	0.35%	0.008%
173	8.463	8.457	8.473	VV	1356	10892	0.12%	0.003%
174	8.493	8.473	8.499	VV	7672	72049	0.82%	0.020%
175	8.507	8.499	8.546	VV	8090	94795	1.07%	0.026%
176	8.577	8.546	8.588	VV	2147	37444	0.42%	0.010%
177	8.614	8.588	8.629	VV	19063	222976	2.53%	0.061%
178	8.641	8.629	8.660	VV	10713	121171	1.37%	0.033%
179	8.690	8.660	8.714	VV	5647	118333	1.34%	0.032%
180	8.728	8.714	8.748	VV	2843	37400	0.42%	0.010%
181	8.771	8.748	8.782	VV	7036	92247	1.05%	0.025%
182	8.801	8.782	8.837	VV	22316	302432	3.43%	0.083%
183	8.856	8.837	8.872	VV	4126	53820	0.61%	0.015%
184	8.892	8.872	8.906	VV	4777	60581	0.69%	0.017%
185	8.915	8.906	8.929	VV	2167	23737	0.27%	0.007%
186	8.941	8.929	8.958	VV	1948	23936	0.27%	0.007%
187	8.983	8.958	9.009	VV	689	14301	0.16%	0.004%
188	9.048	9.009	9.070	PV	4189	80849	0.92%	0.022%
189	9.101	9.070	9.122	VV	55238	573834	6.51%	0.157%
190	9.147	9.122	9.186	VV	7327	149527	1.70%	0.041%
191	9.234	9.186	9.255	VV	5531	132193	1.50%	0.036%
192	9.265	9.255	9.279	VV	1614	18674	0.21%	0.005%
193	9.296	9.279	9.310	VV	2599	33574	0.38%	0.009%
194	9.346	9.310	9.360	VV	12038	168572	1.91%	0.046%

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195	9.377	9.360	9.400	VV	28165	297658	3.38%	0.082%
196	9.417	9.400	9.430	VV	3629	44883	0.51%	0.012%
197	9.437	9.430	9.455	VV	2533	34053	0.39%	0.009%
198	9.470	9.455	9.486	VV	3968	46831	0.53%	0.013%
199	9.517	9.486	9.538	VV	12445	157777	1.79%	0.043%
200	9.557	9.538	9.594	VV	10713	131793	1.49%	0.036%
201	9.617	9.594	9.642	VV	1042	17984	0.20%	0.005%
202	9.675	9.642	9.691	PV	10044	112195	1.27%	0.031%
203	9.706	9.691	9.726	VV	7165	73276	0.83%	0.020%
204	9.731	9.726	9.742	VV	730	5849	0.07%	0.002%
205	9.759	9.742	9.774	VV	2976	33906	0.38%	0.009%
206	9.812	9.774	9.834	VV	9024	130704	1.48%	0.036%
207	9.853	9.834	9.872	VV	3735	54295	0.62%	0.015%
208	9.895	9.872	9.916	VV	51815	556025	6.30%	0.153%
209	9.921	9.916	9.954	VV	4838	56268	0.64%	0.015%
210	9.976	9.954	10.005	VV	10302	169809	1.93%	0.047%
211	10.018	10.005	10.029	VV	7186	74575	0.85%	0.020%
212	10.048	10.029	10.067	VV	16527	219700	2.49%	0.060%
213	10.078	10.067	10.090	VV	5146	58266	0.66%	0.016%
214	10.108	10.090	10.132	VV	10423	144228	1.64%	0.040%
215	10.177	10.132	10.200	VV	97179	1018489	11.55%	0.280%
216	10.222	10.200	10.260	VV	16265	251614	2.85%	0.069%
217	10.273	10.260	10.290	VV	4120	58803	0.67%	0.016%
218	10.320	10.290	10.364	VV	22178	405216	4.59%	0.111%
219	10.385	10.364	10.403	VV	5001	65893	0.75%	0.018%
220	10.420	10.403	10.447	VV	3229	45054	0.51%	0.012%
221	10.487	10.447	10.514	PV	3374	61929	0.70%	0.017%
222	10.530	10.514	10.544	VV	2038	28364	0.32%	0.008%
223	10.550	10.544	10.570	VV	1532	17063	0.19%	0.005%
224	10.591	10.570	10.602	PV	1376	14293	0.16%	0.004%
225	10.617	10.602	10.626	VV	1260	13304	0.15%	0.004%
226	10.651	10.626	10.681	VV	8255	127669	1.45%	0.035%
227	10.703	10.681	10.731	VV	10341	153901	1.75%	0.042%
228	10.760	10.731	10.770	VV	9653	133208	1.51%	0.037%
229	10.788	10.770	10.811	VV	20269	280092	3.18%	0.077%
230	10.827	10.811	10.869	VV	12236	177159	2.01%	0.049%
231	10.905	10.869	10.937	VV	12537	241018	2.73%	0.066%
232	10.956	10.937	10.975	VV	30455	373704	4.24%	0.103%
233	10.985	10.975	11.001	VV	9323	120048	1.36%	0.033%
234	11.012	11.001	11.029	VV	6672	99137	1.12%	0.027%
235	11.054	11.029	11.065	VV	11522	185955	2.11%	0.051%
236	11.078	11.065	11.089	VV	14137	159717	1.81%	0.044%
237	11.114	11.089	11.158	VV	34591	724870	8.22%	0.199%
238	11.177	11.158	11.195	VV	5108	102813	1.17%	0.028%
239	11.213	11.195	11.231	VV	10505	140274	1.59%	0.038%
240	11.241	11.231	11.262	VV	3485	59059	0.67%	0.016%
241	11.280	11.262	11.289	VV	9503	103104	1.17%	0.028%
242	11.319	11.289	11.359	VV	545238	6126410	69.47%	1.681%
243	11.389	11.359	11.430	VV	153095	1718098	19.48%	0.472%
244	11.441	11.430	11.456	VV	3241	44030	0.50%	0.012%
245	11.468	11.456	11.477	VV	3109	36507	0.41%	0.010%
246	11.489	11.477	11.534	VV	3971	99490	1.13%	0.027%

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247	11.557	11.534	11.579	VV	8939	134551	1.53%	0.037%
248	11.599	11.579	11.644	VV	39562	488166	5.54%	0.134%
249	11.674	11.644	11.689	PV	4879	85899	0.97%	0.024%
250	11.724	11.689	11.734	VV	6864	142649	1.62%	0.039%
251	11.762	11.734	11.781	VV	14414	245273	2.78%	0.067%
252	11.852	11.781	11.885	VV	25088	654886	7.43%	0.180%
253	11.920	11.885	11.939	VV	13446	193894	2.20%	0.053%
254	11.968	11.939	11.993	VV	16431	295359	3.35%	0.081%
255	12.010	11.993	12.027	VV	10448	148399	1.68%	0.041%
256	12.035	12.027	12.041	VV	4966	38372	0.44%	0.011%
257	12.045	12.041	12.058	VV	4805	46205	0.52%	0.013%
258	12.075	12.058	12.094	VV	7760	116985	1.33%	0.032%
259	12.123	12.094	12.138	VV	69619	805923	9.14%	0.221%
260	12.154	12.138	12.195	VV	94564	1072215	12.16%	0.294%
261	12.221	12.195	12.227	VV	42481	439278	4.98%	0.121%
262	12.240	12.227	12.256	VV	75324	852218	9.66%	0.234%
263	12.272	12.256	12.287	VV	50542	578059	6.55%	0.159%
264	12.304	12.287	12.338	VV	66724	871654	9.88%	0.239%
265	12.345	12.338	12.361	VV	6719	71031	0.81%	0.019%
266	12.381	12.361	12.402	VV	8517	142607	1.62%	0.039%
267	12.404	12.402	12.409	VV	5914	22548	0.26%	0.006%
268	12.440	12.409	12.459	VV	17398	334477	3.79%	0.092%
269	12.480	12.459	12.505	VV	45071	603657	6.84%	0.166%
270	12.525	12.505	12.551	VV	10282	213160	2.42%	0.059%
271	12.597	12.551	12.618	VV	49400	681888	7.73%	0.187%
272	12.630	12.618	12.642	VV	7742	89275	1.01%	0.025%
273	12.662	12.642	12.669	VV	9627	120477	1.37%	0.033%
274	12.691	12.669	12.724	VV	69747	901889	10.23%	0.248%
275	12.746	12.724	12.765	VV	11274	186094	2.11%	0.051%
276	12.780	12.765	12.792	VV	5367	61426	0.70%	0.017%
277	12.805	12.792	12.817	VV	5843	70978	0.80%	0.019%
278	12.850	12.817	12.864	VV	13577	249103	2.82%	0.068%
279	12.872	12.864	12.900	VV	9934	129221	1.47%	0.035%
280	12.920	12.900	12.958	VV	19986	350305	3.97%	0.096%
281	12.981	12.958	13.012	PV	29053	423153	4.80%	0.116%
282	13.033	13.012	13.052	VV	47682	619447	7.02%	0.170%
283	13.082	13.052	13.122	VV	25503	728493	8.26%	0.200%
284	13.159	13.122	13.189	VV	662438	7974308	90.42%	2.189%
285	13.210	13.189	13.229	VV	7907	90661	1.03%	0.025%
286	13.247	13.229	13.260	PV	4150	51706	0.59%	0.014%
287	13.287	13.260	13.297	VV	11258	171611	1.95%	0.047%
288	13.312	13.297	13.323	VV	16203	213305	2.42%	0.059%
289	13.339	13.323	13.402	VV	29491	711412	8.07%	0.195%
290	13.407	13.402	13.423	VV	6689	64781	0.73%	0.018%
291	13.459	13.423	13.480	VV	544946	6464750	73.30%	1.774%
292	13.508	13.480	13.523	VV	62359	818382	9.28%	0.225%
293	13.538	13.523	13.557	VV	67561	782647	8.87%	0.215%
294	13.577	13.557	13.605	VV	58544	801229	9.09%	0.220%
295	13.624	13.605	13.634	VV	24231	293092	3.32%	0.080%
296	13.648	13.634	13.675	VV	28404	392206	4.45%	0.108%
297	13.717	13.675	13.739	PV	44171	662579	7.51%	0.182%
298	13.771	13.739	13.782	VV	23281	475935	5.40%	0.131%
299	13.787	13.782	13.815	VV	22491	250715	2.84%	0.069%

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300	13.850	13.815	13.869	VV	20913	335589	3.81%	0.092%
301	13.881	13.869	13.890	VV	9481	99098	1.12%	0.027%
302	13.912	13.890	13.990	VV	40110	930461	10.55%	0.255%
303	14.044	13.990	14.080	VV	84565	1423949	16.15%	0.391%
304	14.111	14.080	14.127	VV	9095	149716	1.70%	0.041%
305	14.152	14.127	14.173	VV	45361	621226	7.04%	0.170%
306	14.193	14.173	14.213	VV	48727	597839	6.78%	0.164%
307	14.234	14.213	14.262	VV	16353	303660	3.44%	0.083%
308	14.300	14.262	14.306	VV	26586	439394	4.98%	0.121%
309	14.323	14.306	14.344	VV	47540	679508	7.71%	0.186%
310	14.364	14.344	14.402	VV	39097	552537	6.27%	0.152%
311	14.435	14.402	14.456	VV	12611	228551	2.59%	0.063%
312	14.473	14.456	14.485	VV	5656	72539	0.82%	0.020%
313	14.526	14.485	14.555	VV	10347	297467	3.37%	0.082%
314	14.558	14.555	14.566	VV	6261	32606	0.37%	0.009%
315	14.585	14.566	14.616	VV	6077	127459	1.45%	0.035%
316	14.632	14.616	14.645	VV	3796	39040	0.44%	0.011%
317	14.689	14.645	14.704	PV	7109	130814	1.48%	0.036%
318	14.747	14.704	14.763	VV	15808	418823	4.75%	0.115%
319	14.784	14.763	14.808	VV	55117	755960	8.57%	0.207%
320	14.811	14.808	14.836	VV	6592	82334	0.93%	0.023%
321	14.862	14.836	14.879	VV	20333	333901	3.79%	0.092%
322	14.889	14.879	14.907	VV	14078	176740	2.00%	0.049%
323	14.966	14.907	15.005	VV	43756	1121454	12.72%	0.308%
324	15.030	15.005	15.051	VV	78215	1030022	11.68%	0.283%
325	15.089	15.051	15.115	VV	59000	1042578	11.82%	0.286%
326	15.152	15.115	15.170	VV	13324	256170	2.90%	0.070%
327	15.199	15.170	15.248	VV	93845	1585526	17.98%	0.435%
328	15.295	15.248	15.315	VV	22625	354478	4.02%	0.097%
329	15.348	15.315	15.368	VV	274118	3699644	41.95%	1.015%
330	15.392	15.368	15.422	VV	289051	3538019	40.12%	0.971%
331	15.435	15.422	15.462	VV	13384	206399	2.34%	0.057%
332	15.510	15.462	15.534	VV	55964	983321	11.15%	0.270%
333	15.545	15.534	15.562	VV	14168	207091	2.35%	0.057%
334	15.584	15.562	15.619	VV	26917	473345	5.37%	0.130%
335	15.646	15.619	15.672	VV	34269	611278	6.93%	0.168%
336	15.688	15.672	15.753	VV	27466	772447	8.76%	0.212%
337	15.788	15.753	15.854	VV	65145	1481813	16.80%	0.407%
338	15.858	15.854	15.864	VV	8815	48388	0.55%	0.013%
339	15.872	15.864	15.878	VV	9473	69646	0.79%	0.019%
340	15.895	15.878	15.900	VV	9737	108569	1.23%	0.030%
341	15.946	15.900	15.967	VV	36586	966898	10.96%	0.265%
342	15.981	15.967	15.999	VV	25806	404875	4.59%	0.111%
343	16.023	15.999	16.044	VV	74096	1064829	12.07%	0.292%
344	16.063	16.044	16.095	VV	39379	693970	7.87%	0.190%
345	16.109	16.095	16.123	VV	18490	266389	3.02%	0.073%
346	16.188	16.123	16.217	VV	44255	1482652	16.81%	0.407%
347	16.265	16.217	16.291	VV	25773	758606	8.60%	0.208%
348	16.316	16.291	16.324	VV	17016	281331	3.19%	0.077%
349	16.350	16.324	16.365	VV	24417	485086	5.50%	0.133%
350	16.382	16.365	16.407	VV	28779	506924	5.75%	0.139%
351	16.436	16.407	16.464	VV	37495	913287	10.36%	0.251%

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352	16.467	16.464	16.494	VV	22832	356980	4.05%	0.098%
353	16.496	16.494	16.516	VV	16469	191032	2.17%	0.052%
354	16.529	16.516	16.549	VV	16335	271348	3.08%	0.074%
355	16.561	16.549	16.580	VV	15953	263194	2.98%	0.072%
356	16.584	16.580	16.588	VV	13275	54056	0.61%	0.015%
357	16.636	16.588	16.658	VV	36694	1020716	11.57%	0.280%
358	16.664	16.658	16.681	VV	24367	293916	3.33%	0.081%
359	16.702	16.681	16.717	VV	29612	508764	5.77%	0.140%
360	16.748	16.717	16.770	VV	31793	872781	9.90%	0.240%
361	16.778	16.770	16.783	VV	26551	197860	2.24%	0.054%
362	16.813	16.783	16.838	VV	48718	1269340	14.39%	0.348%
363	16.845	16.838	16.872	VV	44384	676814	7.67%	0.186%
364	16.926	16.872	16.943	VV	282782	5008242	56.79%	1.374%
365	16.950	16.943	16.990	VV	141277	1858199	21.07%	0.510%
366	17.007	16.990	17.014	VV	32495	412643	4.68%	0.113%
367	17.051	17.014	17.072	VV	82021	1665020	18.88%	0.457%
368	17.090	17.072	17.130	VV	45765	1306765	14.82%	0.359%
369	17.149	17.130	17.154	VV	39123	537354	6.09%	0.147%
370	17.159	17.154	17.192	VV	38972	822949	9.33%	0.226%
371	17.249	17.192	17.276	VV	181472	4244279	48.13%	1.165%
372	17.308	17.276	17.347	VV	241350	4145648	47.01%	1.138%
373	17.406	17.347	17.445	VV	103472	3541087	40.15%	0.972%
374	17.457	17.445	17.487	VV	55306	1224733	13.89%	0.336%
375	17.550	17.487	17.578	VV	56627	2614580	29.65%	0.718%
376	17.584	17.578	17.587	VV	48785	262625	2.98%	0.072%
377	17.610	17.587	17.615	VV	52638	829190	9.40%	0.228%
378	17.627	17.615	17.634	VV	52594	572136	6.49%	0.157%
379	17.672	17.634	17.704	VV	71722	2532971	28.72%	0.695%
380	17.716	17.704	17.738	VV	62254	1166485	13.23%	0.320%
381	17.764	17.738	17.788	VV	66815	1740783	19.74%	0.478%
382	17.805	17.788	17.815	VV	70995	1053105	11.94%	0.289%
383	17.838	17.815	17.873	VV	89252	2525135	28.63%	0.693%
384	17.895	17.873	17.918	VV	70408	1620997	18.38%	0.445%
385	17.924	17.918	17.927	VV	61749	307430	3.49%	0.084%
386	17.931	17.927	17.945	VV	60995	599011	6.79%	0.164%
387	17.973	17.945	17.999	VV	86445	2195371	24.89%	0.603%
388	18.035	17.999	18.053	VV	63436	1868565	21.19%	0.513%
389	18.062	18.053	18.080	VV	57572	878016	9.96%	0.241%
390	18.089	18.080	18.095	VV	57093	518097	5.87%	0.142%
391	18.101	18.095	18.117	VV	57024	696113	7.89%	0.191%
392	18.130	18.117	18.145	VV	57631	926760	10.51%	0.254%
393	18.150	18.145	18.167	VV	54003	698684	7.92%	0.192%
394	18.172	18.167	18.177	VV	55336	314900	3.57%	0.086%
395	18.201	18.177	18.215	VV	67027	1384532	15.70%	0.380%
396	18.220	18.215	18.224	VV	61843	326116	3.70%	0.090%
397	18.230	18.224	18.238	VV	64878	545055	6.18%	0.150%
398	18.244	18.238	18.250	VV	67480	442255	5.01%	0.121%
399	18.293	18.250	18.327	VV	106696	3645318	41.33%	1.000%
400	18.345	18.327	18.372	VV	68688	1759455	19.95%	0.483%
401	18.378	18.372	18.397	VV	68039	971884	11.02%	0.267%
402	18.415	18.397	18.423	VV	78234	1108651	12.57%	0.304%
403	18.451	18.423	18.475	VV	130822	3157505	35.80%	0.867%
404	18.480	18.475	18.522	VV	92323	2184762	24.77%	0.600%

rteres								
405	18.539	18.522	18.570	VV	74947	2007680	22.77%	0.551%
406	18.596	18.570	18.619	VV	108310	2489783	28.23%	0.683%
407	18.624	18.619	18.627	VV	81797	413830	4.69%	0.114%
408	18.651	18.627	18.667	VV	101862	2176595	24.68%	0.597%
409	18.692	18.667	18.760	VV	199169	6594268	74.77%	1.810%
410	18.775	18.760	18.798	VV	88578	1854116	21.02%	0.509%
411	18.823	18.798	18.840	VV	158503	3038983	34.46%	0.834%
412	18.856	18.840	18.915	VV	121621	4032093	45.72%	1.107%
413	18.953	18.915	18.994	VV	197681	5321295	60.34%	1.460%
414	18.996	18.994	19.004	VV	83282	518367	5.88%	0.142%
415	19.035	19.004	19.047	VV	88433	2122310	24.07%	0.582%
416	19.052	19.047	19.057	VV	86634	498343	5.65%	0.137%
417	19.084	19.057	19.105	VV	112248	2726013	30.91%	0.748%
418	19.127	19.105	19.160	VV	105913	2942204	33.36%	0.807%
419	19.174	19.160	19.180	VV	80398	906294	10.28%	0.249%
420	19.185	19.180	19.190	VV	79897	456018	5.17%	0.125%
421	19.196	19.190	19.198	VV	79010	371071	4.21%	0.102%
422	19.203	19.198	19.222	VV	81614	1097060	12.44%	0.301%
423	19.251	19.222	19.278	VV	124583	3341662	37.89%	0.917%
424	19.297	19.278	19.337	VV	114007	3334616	37.81%	0.915%
425	19.352	19.337	19.365	VV	88779	1447249	16.41%	0.397%
426	19.385	19.365	19.391	VV	98861	1389979	15.76%	0.381%
427	19.394	19.391	19.401	VV	95631	577368	6.55%	0.158%
428	19.430	19.401	19.447	VV	95805	2482707	28.15%	0.681%
429	19.491	19.447	19.509	VV	122084	3852447	43.68%	1.057%
430	19.528	19.509	19.559	VV	124438	3202449	36.31%	0.879%
431	19.580	19.559	19.607	VV	106252	2787668	31.61%	0.765%
432	19.644	19.607	19.695	VV	117884	5261214	59.66%	1.444%
433	19.714	19.695	19.722	VV	94289	1486388	16.85%	0.408%
434	19.739	19.722	19.759	VV	98023	2086685	23.66%	0.573%
435	19.765	19.759	19.772	VV	97531	764857	8.67%	0.210%
436	19.783	19.772	19.789	VV	99795	964410	10.94%	0.265%
437	19.795	19.789	19.805	VV	99883	895989	10.16%	0.246%
438	19.816	19.805	19.836	VV	100235	1768503	20.05%	0.485%
439	19.839	19.836	19.849	VV	95445	714823	8.11%	0.196%
440	19.854	19.849	19.857	VV	92125	434175	4.92%	0.119%
441	19.867	19.857	19.884	VV	96435	1490555	16.90%	0.409%
442	19.896	19.884	19.902	VV	98150	1039985	11.79%	0.285%
443	19.919	19.902	19.943	VV	116111	2697457	30.59%	0.740%
444	19.963	19.943	19.995	VV	116197	3360284	38.10%	0.922%
445	20.001	19.995	20.004	VV	101675	505279	5.73%	0.139%
446	20.057	20.004	20.089	VV	127970	5493561	62.29%	1.508%
447	20.121	20.089	20.157	VV	158529	5305737	60.16%	1.456%
448	20.192	20.157	20.222	VV	167540	5358241	60.76%	1.471%
449	20.239	20.222	20.262	VV	122875	2772034	31.43%	0.761%
450	20.296	20.262	20.342	VV	152283	6183467	70.12%	1.697%
451	20.357	20.342	20.385	VV	126532	3040353	34.47%	0.834%
452	20.407	20.385	20.429	VV	119683	3012955	34.16%	0.827%
453	20.504	20.429	20.537	VV	185029	8819014	100.00%	2.420%
454	20.577	20.537	20.630	VV	154325	7551251	85.62%	2.072%
455	20.645	20.630	20.652	VV	136563	1722807	19.54%	0.473%
456	20.668	20.652	20.690	VV	145372	3044540	34.52%	0.836%

rteres								
457	20.699	20.690	20.722	VV	126952	2293349	26.00%	0.629%
458	20.750	20.722	20.800	VV	135520	5796056	65.72%	1.591%
459	20.831	20.800	20.874	VV	130307	5320940	60.33%	1.460%
460	20.894	20.874	20.914	VV	118029	2763458	31.34%	0.758%
461	20.929	20.914	20.974	VV	112839	3744628	42.46%	1.028%
462	20.986	20.974	20.992	VV	104837	1121850	12.72%	0.308%
463	21.001	20.992	21.016	VV	101351	1426074	16.17%	0.391%
464	21.041	21.016	21.065	VV	119798	3197691	36.26%	0.878%
465	21.071	21.065	21.084	VV	101973	1061350	12.03%	0.291%
466	21.088	21.084	21.100	VV	99387	958993	10.87%	0.263%
467	21.109	21.100	21.141	VV	100699	2288353	25.95%	0.628%
468	21.173	21.141	21.202	VV	98816	3466876	39.31%	0.951%
469	21.217	21.202	21.234	VV	93723	1722655	19.53%	0.473%
470	21.238	21.234	21.255	VV	85544	1028828	11.67%	0.282%
471	21.261	21.255	21.264	VV	83712	427945	4.85%	0.117%
472	21.278	21.264	21.294	VV	88526	1453389	16.48%	0.399%
473	21.299	21.294	21.324	VV	84932	1459634	16.55%	0.401%
474	21.328	21.324	21.346	VV	83880	1035204	11.74%	0.284%
475	21.352	21.346	21.364	VV	76949	794021	9.00%	0.218%
476	21.366	21.364	21.372	VV	77089	383505	4.35%	0.105%
477	21.381	21.372	21.395	VV	74866	986015	11.18%	0.271%
478	21.403	21.395	21.412	VV	75757	716101	8.12%	0.197%
479	21.467	21.412	21.499	VV	84933	3732729	42.33%	1.024%
480	21.504	21.499	21.523	VV	63360	863055	9.79%	0.237%
481	21.539	21.523	21.546	VV	61001	785377	8.91%	0.216%
482	21.571	21.546	21.575	VV	64697	1052090	11.93%	0.289%
483	21.581	21.575	21.622	VV	66440	1729637	19.61%	0.475%
484	21.625	21.622	21.634	VV	58211	384282	4.36%	0.105%
485	21.654	21.634	21.667	VV	58603	1087032	12.33%	0.298%
486	21.686	21.667	21.698	VV	59972	1002094	11.36%	0.275%
487	21.701	21.698	21.721	VV	51064	673555	7.64%	0.185%
488	21.735	21.721	21.741	VV	49325	537820	6.10%	0.148%
489	21.759	21.741	21.779	VV	49155	1048741	11.89%	0.288%
490	21.783	21.779	21.791	VV	50309	332769	3.77%	0.091%
491	21.808	21.791	21.836	VV	53884	1274373	14.45%	0.350%
492	21.843	21.836	21.856	VV	41652	456706	5.18%	0.125%
493	21.878	21.856	21.892	VV	41663	841697	9.54%	0.231%
494	21.902	21.892	21.907	VV	46146	390032	4.42%	0.107%
495	21.917	21.907	21.926	VV	47744	517092	5.86%	0.142%
496	21.929	21.926	21.932	VV	49980	190479	2.16%	0.052%
497	21.938	21.932	21.957	VV	50645	661085	7.50%	0.181%
498	21.966	21.957	21.972	VV	48148	407720	4.62%	0.112%
499	21.979	21.972	21.996	VV	51014	676609	7.67%	0.186%
500	22.008	21.996	22.031	VV	48403	891516	10.11%	0.245%
501	22.036	22.031	22.115	VV	41586	1589632	18.03%	0.436%
502	22.123	22.115	22.129	VV	22998	164399	1.86%	0.045%
503	22.134	22.129	22.159	VV	20969	334475	3.79%	0.092%
504	22.162	22.159	22.180	VV	21194	224943	2.55%	0.062%
505	22.186	22.180	22.194	VV	19559	146380	1.66%	0.040%
506	22.201	22.194	22.205	VV	22933	140668	1.60%	0.039%
507	22.212	22.205	22.227	VV	22498	250077	2.84%	0.069%
508	22.250	22.227	22.298	VV	20792	486259	5.51%	0.133%
509	22.324	22.298	22.328	VV	19576	210507	2.39%	0.058%



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510	22.335	22.328	22.351	VV	20510	223918	2.54%	0.061%	
511	22.355	22.351	22.370	VV	12937	92602	1.05%	0.025%	
512	22.376	22.370	22.386	VV	7437	35567	0.40%	0.010%	
513	22.391	22.386	22.394	PV	2133	8830	0.10%	0.002%	
					Sum of corrected areas:	364372375			

FG070925.M Fri Jul 11 04:57:09 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016278.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 16:12
Operator : YP\AJ
Sample : Q2473-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PIT#2

A
B
C
D
E
F
G

Integration File: autoint1.e
Quant Time: Jul 11 04:14:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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...	15.205	1387228	13.874 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

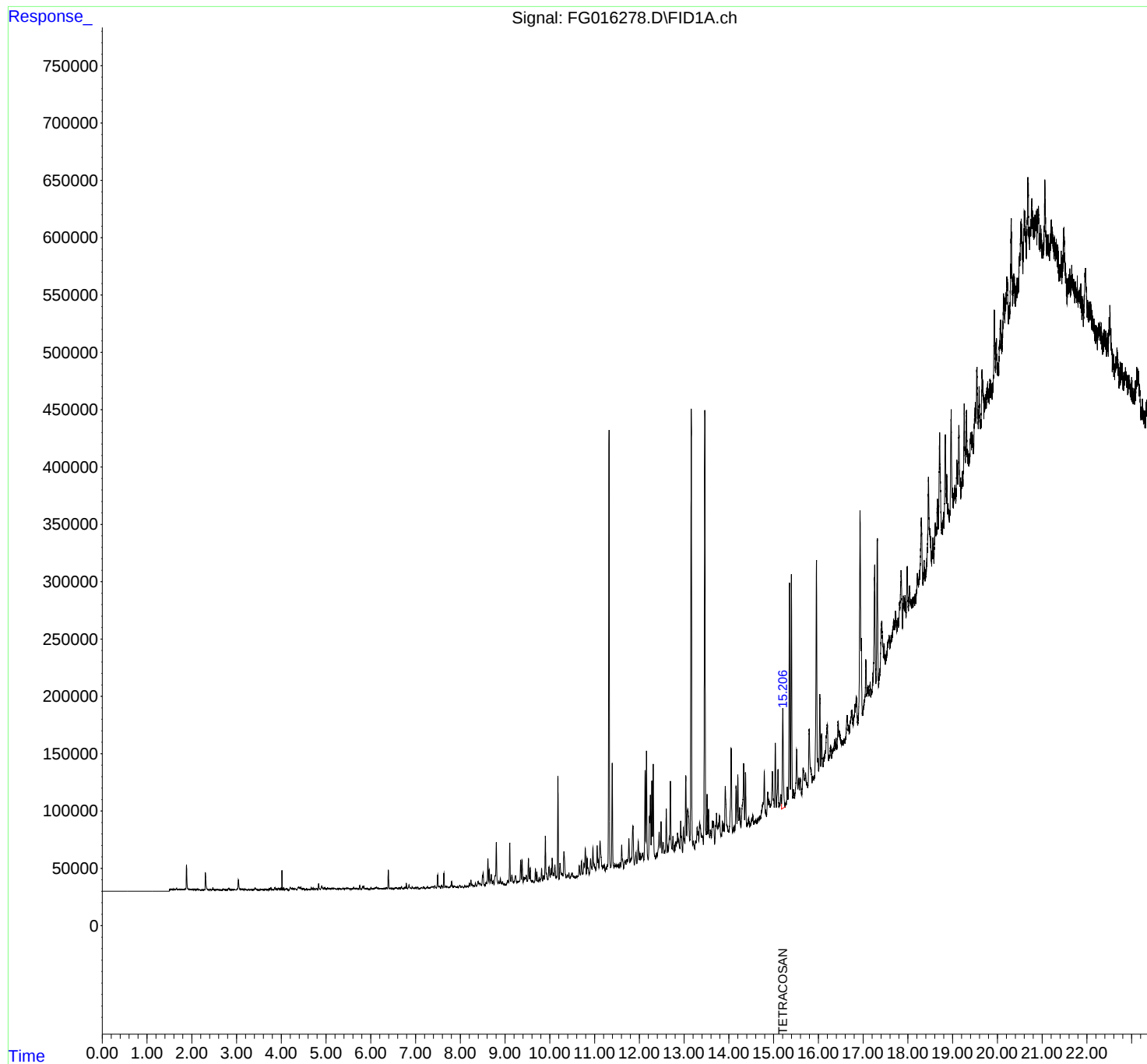
(m)=manual int.

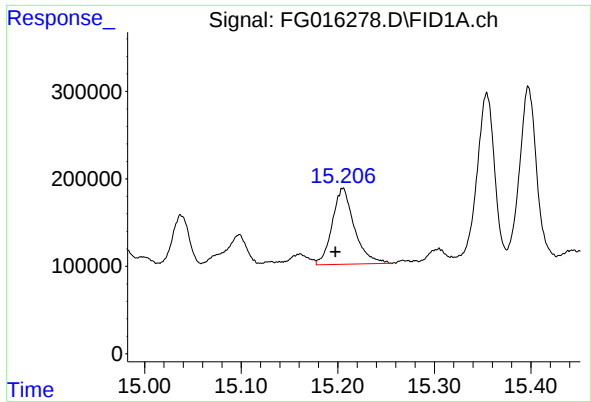
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016278.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 16:12
Operator : YP\AJ
Sample : Q2473-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PIT#2

Integration File: autoint1.e
Quant Time: Jul 11 04:14:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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.: 15.205 min
Delta R.T.: 0.008 min
Response: 1387228
Conc: 13.87 ug/ml

Instrument :
FID_G
ClientSampleId :
PIT#2

A
B
C
D
E
F
G

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016278.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 16:12
Sample : Q2473-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.040	2.023	2.046	BV	71	221	0.00%	0.000%
2	2.060	2.046	2.091	PV	388	5341	0.05%	0.001%
3	2.124	2.091	2.160	PV	516	11031	0.10%	0.003%
4	2.164	2.160	2.183	VV	196	1174	0.01%	0.000%
5	2.201	2.183	2.213	VV	170	1664	0.02%	0.000%
6	2.223	2.213	2.255	VV	152	2260	0.02%	0.001%
7	2.258	2.255	2.263	VV	76	275	0.00%	0.000%
8	2.286	2.263	2.292	PV	243	2454	0.02%	0.001%
9	2.304	2.292	2.393	VV	15035	180873	1.68%	0.046%
10	2.410	2.393	2.448	VV	990	13973	0.13%	0.004%
11	2.470	2.448	2.524	VV	2067	20473	0.19%	0.005%
12	2.545	2.524	2.561	PV	658	8564	0.08%	0.002%
13	2.577	2.561	2.589	VV	661	7540	0.07%	0.002%
14	2.601	2.589	2.621	VV	445	6845	0.06%	0.002%
15	2.627	2.621	2.649	VV	239	2353	0.02%	0.001%
16	2.653	2.649	2.657	VV	132	373	0.00%	0.000%
17	2.662	2.657	2.677	VV	183	1272	0.01%	0.000%
18	2.707	2.677	2.723	VV	1151	14561	0.14%	0.004%
19	2.733	2.723	2.765	VV	575	8431	0.08%	0.002%
20	2.778	2.765	2.798	VV	404	4943	0.05%	0.001%
21	2.820	2.798	2.863	PV	1492	30066	0.28%	0.008%
22	2.901	2.863	2.928	VV	569	13453	0.12%	0.003%
23	2.948	2.928	2.997	VV	657	15741	0.15%	0.004%
24	3.040	2.997	3.085	VV	9024	138620	1.29%	0.035%
25	3.098	3.085	3.122	VV	1338	17962	0.17%	0.005%
26	3.136	3.122	3.162	VV	1116	17602	0.16%	0.004%
27	3.183	3.162	3.204	VV	857	15066	0.14%	0.004%
28	3.211	3.204	3.241	VV	503	7415	0.07%	0.002%
29	3.257	3.241	3.287	VV	596	9966	0.09%	0.003%
30	3.307	3.287	3.316	VV	331	3924	0.04%	0.001%
31	3.332	3.316	3.356	VV	307	4779	0.04%	0.001%
32	3.366	3.356	3.386	VV	971	3283	0.03%	0.001%
33	3.412	3.386	3.493	VV	1825	42635	0.40%	0.011%
34	3.496	3.493	3.508	VV	168	1213	0.01%	0.000%
35	3.527	3.508	3.543	VV	476	6748	0.06%	0.002%
36	3.555	3.543	3.572	VV	562	6494	0.06%	0.002%

					rteres			
37	3.582	3.572	3.606	VV	514	6445	0.06%	0.002%
38	3.631	3.606	3.645	VV	632	9377	0.09%	0.002%
39	3.652	3.645	3.686	VV	561	7399	0.07%	0.002%
40	3.697	3.686	3.701	VV	260	1802	0.02%	0.000%
41	3.728	3.701	3.743	VV	1080	16598	0.15%	0.004%
42	3.769	3.743	3.790	VV	1980	29341	0.27%	0.007%
43	3.804	3.790	3.833	VV	575	11343	0.11%	0.003%
44	3.858	3.833	3.887	VV	1926	35040	0.33%	0.009%
45	3.899	3.887	3.915	VV	827	10982	0.10%	0.003%
46	3.943	3.915	3.983	VV	1472	35141	0.33%	0.009%
47	4.001	3.983	4.013	VV	1471	19047	0.18%	0.005%
48	4.015	4.013	4.034	VV	14239	25568	0.24%	0.006%
49	4.053	4.034	4.086	VV	1474	27317	0.25%	0.007%
50	4.108	4.086	4.163	VV	1259	32196	0.30%	0.008%
51	4.201	4.163	4.226	PV	2533	44512	0.41%	0.011%
52	4.251	4.226	4.268	VV	1398	27994	0.26%	0.007%
53	4.273	4.268	4.291	VV	963	12012	0.11%	0.003%
54	4.294	4.291	4.302	VV	803	5288	0.05%	0.001%
55	4.317	4.302	4.351	VV	1236	19830	0.18%	0.005%
56	4.375	4.351	4.381	VV	2328	25619	0.24%	0.006%
57	4.390	4.381	4.404	VV	2371	28537	0.26%	0.007%
58	4.415	4.404	4.426	VV	1913	22311	0.21%	0.006%
59	4.435	4.426	4.478	VV	2201	39182	0.36%	0.010%
60	4.487	4.478	4.491	VV	842	6316	0.06%	0.002%
61	4.497	4.491	4.524	VV	876	11370	0.11%	0.003%
62	4.567	4.524	4.588	VV	832	16595	0.15%	0.004%
63	4.611	4.588	4.623	VV	684	10538	0.10%	0.003%
64	4.629	4.623	4.647	VV	663	7058	0.07%	0.002%
65	4.671	4.647	4.693	VV	1930	27054	0.25%	0.007%
66	4.710	4.693	4.729	VV	1127	14709	0.14%	0.004%
67	4.746	4.729	4.767	VV	925	13657	0.13%	0.003%
68	4.788	4.767	4.812	VV	1274	20349	0.19%	0.005%
69	4.834	4.812	4.873	VV	5408	69133	0.64%	0.017%
70	4.903	4.873	4.941	VV	3538	66197	0.61%	0.017%
71	4.958	4.941	4.973	VV	1949	24024	0.22%	0.006%
72	4.985	4.973	5.005	VV	1434	18396	0.17%	0.005%
73	5.036	5.005	5.057	VV	1618	32171	0.30%	0.008%
74	5.084	5.057	5.105	VV	1025	25039	0.23%	0.006%
75	5.136	5.105	5.157	VV	1215	28353	0.26%	0.007%
76	5.176	5.157	5.182	VV	1259	13580	0.13%	0.003%
77	5.189	5.182	5.213	VV	1405	17777	0.16%	0.004%
78	5.221	5.213	5.236	VV	532	6218	0.06%	0.002%
79	5.255	5.236	5.269	VV	615	9538	0.09%	0.002%
80	5.290	5.269	5.315	VV	975	19329	0.18%	0.005%
81	5.327	5.315	5.343	VV	714	9403	0.09%	0.002%
82	5.352	5.343	5.364	VV	675	7337	0.07%	0.002%
83	5.383	5.364	5.410	VV	1162	20114	0.19%	0.005%
84	5.431	5.410	5.449	VV	1196	18709	0.17%	0.005%
85	5.465	5.449	5.478	VV	1623	19779	0.18%	0.005%
86	5.494	5.478	5.509	VV	1320	19977	0.19%	0.005%
87	5.519	5.509	5.541	VV	1016	12533	0.12%	0.003%
88	5.562	5.541	5.578	VV	727	10323	0.10%	0.003%
89	5.618	5.578	5.645	VV	2223	36943	0.34%	0.009%

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90	5.665	5.645	5.679	VV	768	12769	0.12%	0.003%
91	5.692	5.679	5.710	VV	1190	14269	0.13%	0.004%
92	5.721	5.710	5.731	VV	424	4203	0.04%	0.001%
93	5.752	5.731	5.789	VV	3609	44148	0.41%	0.011%
94	5.816	5.789	5.828	VV	2766	31405	0.29%	0.008%
95	5.844	5.828	5.868	VV	3111	40870	0.38%	0.010%
96	5.870	5.868	5.898	VV	669	9949	0.09%	0.003%
97	5.912	5.898	5.972	VV	1205	18273	0.17%	0.005%
98	6.006	5.972	6.033	VV	1722	22581	0.21%	0.006%
99	6.044	6.033	6.049	VV	473	3770	0.03%	0.001%
100	6.058	6.049	6.070	VV	618	6411	0.06%	0.002%
101	6.089	6.070	6.100	VV	1223	15206	0.14%	0.004%
102	6.111	6.100	6.120	VV	1722	16881	0.16%	0.004%
103	6.131	6.120	6.153	VV	1981	26741	0.25%	0.007%
104	6.169	6.153	6.198	VV	1072	19872	0.18%	0.005%
105	6.210	6.198	6.220	VV	741	8260	0.08%	0.002%
106	6.229	6.220	6.246	VV	765	9593	0.09%	0.002%
107	6.251	6.246	6.268	VV	629	6929	0.06%	0.002%
108	6.297	6.268	6.313	VV	808	14867	0.14%	0.004%
109	6.353	6.313	6.371	VV	1280	27334	0.25%	0.007%
110	6.392	6.371	6.420	VV	16741	170449	1.58%	0.043%
111	6.444	6.420	6.477	VV	998	22359	0.21%	0.006%
112	6.496	6.477	6.518	VV	919	11673	0.11%	0.003%
113	6.542	6.518	6.551	PV	909	12864	0.12%	0.003%
114	6.562	6.551	6.571	VV	1080	11243	0.10%	0.003%
115	6.578	6.571	6.607	VV	1026	14786	0.14%	0.004%
116	6.624	6.607	6.636	VV	996	9897	0.09%	0.002%
117	6.647	6.636	6.662	VV	793	10002	0.09%	0.003%
118	6.687	6.662	6.719	VV	2270	34295	0.32%	0.009%
119	6.741	6.719	6.752	VV	722	10365	0.10%	0.003%
120	6.770	6.752	6.787	VV	1638	22628	0.21%	0.006%
121	6.794	6.787	6.821	VV	3280	27245	0.25%	0.007%
122	6.853	6.821	6.879	VV	3710	53127	0.49%	0.013%
123	6.888	6.879	6.905	VV	851	8935	0.08%	0.002%
124	6.925	6.905	6.953	VV	2006	26562	0.25%	0.007%
125	6.968	6.953	6.992	VV	709	11454	0.11%	0.003%
126	7.007	6.992	7.028	VV	1682	18753	0.17%	0.005%
127	7.048	7.028	7.073	VV	1388	19944	0.18%	0.005%
128	7.082	7.073	7.096	VV	308	2066	0.02%	0.001%
129	7.139	7.096	7.157	VV	1167	17938	0.17%	0.005%
130	7.181	7.157	7.215	PV	1270	22648	0.21%	0.006%
131	7.223	7.215	7.235	VV	312	2932	0.03%	0.001%
132	7.264	7.235	7.282	VV	1909	23435	0.22%	0.006%
133	7.304	7.282	7.319	VV	567	7917	0.07%	0.002%
134	7.339	7.319	7.350	VV	1310	14508	0.13%	0.004%
135	7.367	7.350	7.377	VV	1506	20001	0.19%	0.005%
136	7.392	7.377	7.411	VV	1734	25759	0.24%	0.007%
137	7.430	7.411	7.462	VV	2432	35158	0.33%	0.009%
138	7.493	7.462	7.512	VV	11600	130358	1.21%	0.033%
139	7.519	7.512	7.560	VV	1843	32867	0.30%	0.008%
140	7.579	7.560	7.613	VV	2583	41711	0.39%	0.011%
141	7.633	7.613	7.658	VV	13022	130508	1.21%	0.033%

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142	7.673	7.658	7.693	VV	1701	23332	0.22%	0.006%
143	7.704	7.693	7.722	VV	1245	14470	0.13%	0.004%
144	7.727	7.722	7.737	VV	449	3673	0.03%	0.001%
145	7.805	7.737	7.837	VV	5756	96851	0.90%	0.024%
146	7.868	7.837	7.872	VV	1039	15252	0.14%	0.004%
147	7.880	7.872	7.890	VV	1109	10432	0.10%	0.003%
148	7.895	7.890	7.916	VV	898	8084	0.07%	0.002%
149	7.935	7.916	7.957	VV	778	11822	0.11%	0.003%
150	7.985	7.957	8.020	VV	2186	39957	0.37%	0.010%
151	8.040	8.020	8.068	VV	1110	17081	0.16%	0.004%
152	8.102	8.068	8.119	PV	1397	20927	0.19%	0.005%
153	8.148	8.119	8.167	VV	1059	18353	0.17%	0.005%
154	8.180	8.167	8.186	VV	723	6697	0.06%	0.002%
155	8.203	8.186	8.217	VV	3279	36120	0.34%	0.009%
156	8.238	8.217	8.257	VV	6230	78179	0.73%	0.020%
157	8.267	8.257	8.282	VV	1749	21770	0.20%	0.005%
158	8.294	8.282	8.310	VV	1279	17197	0.16%	0.004%
159	8.339	8.310	8.359	VV	3513	43869	0.41%	0.011%
160	8.398	8.359	8.416	VV	4792	83779	0.78%	0.021%
161	8.429	8.416	8.435	VV	2766	28799	0.27%	0.007%
162	8.441	8.435	8.458	VV	2666	30627	0.28%	0.008%
163	8.468	8.458	8.477	VV	1307	13946	0.13%	0.004%
164	8.497	8.477	8.501	VV	9493	82505	0.77%	0.021%
165	8.511	8.501	8.551	VV	12091	139605	1.29%	0.035%
166	8.576	8.551	8.592	VV	3081	49596	0.46%	0.013%
167	8.617	8.592	8.633	VV	23880	272004	2.52%	0.069%
168	8.646	8.633	8.663	VV	14180	153335	1.42%	0.039%
169	8.692	8.663	8.717	VV	9858	167925	1.56%	0.042%
170	8.731	8.717	8.754	VV	4163	60440	0.56%	0.015%
171	8.782	8.754	8.787	VV	8961	115568	1.07%	0.029%
172	8.805	8.787	8.840	VV	37920	465216	4.32%	0.117%
173	8.860	8.840	8.877	VV	3939	57378	0.53%	0.014%
174	8.896	8.877	8.913	VV	6062	74102	0.69%	0.019%
175	8.919	8.913	8.930	VV	1842	16553	0.15%	0.004%
176	8.945	8.930	8.962	VV	3231	38219	0.35%	0.010%
177	8.973	8.962	9.007	VV	979	16968	0.16%	0.004%
178	9.059	9.007	9.082	PV	4025	79955	0.74%	0.020%
179	9.106	9.082	9.127	VV	36514	396389	3.68%	0.100%
180	9.152	9.127	9.187	VV	8191	159707	1.48%	0.040%
181	9.234	9.187	9.259	VV	7566	173727	1.61%	0.044%
182	9.270	9.259	9.281	VV	1943	21484	0.20%	0.005%
183	9.298	9.281	9.312	VV	2519	36663	0.34%	0.009%
184	9.350	9.312	9.367	VV	20447	266564	2.47%	0.067%
185	9.382	9.367	9.404	VV	20522	217070	2.01%	0.055%
186	9.421	9.404	9.435	VV	5392	66570	0.62%	0.017%
187	9.443	9.435	9.447	VV	4094	28551	0.26%	0.007%
188	9.474	9.447	9.491	VV	7011	117674	1.09%	0.030%
189	9.497	9.491	9.502	VV	1866	11219	0.10%	0.003%
190	9.523	9.502	9.544	VV	21316	255720	2.37%	0.065%
191	9.562	9.544	9.600	VV	13126	171168	1.59%	0.043%
192	9.619	9.600	9.645	VV	1540	26462	0.25%	0.007%
193	9.679	9.645	9.697	PV	11788	134892	1.25%	0.034%
194	9.710	9.697	9.728	VV	9015	88155	0.82%	0.022%

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195	9.734	9.728	9.746	VV	1052	8433	0.08%	0.002%
196	9.762	9.746	9.782	VV	4004	44273	0.41%	0.011%
197	9.817	9.782	9.839	VV	11414	154794	1.44%	0.039%
198	9.858	9.839	9.875	VV	5395	68846	0.64%	0.017%
199	9.900	9.875	9.918	VV	39662	443153	4.11%	0.112%
200	9.925	9.918	9.958	VV	7113	88798	0.82%	0.022%
201	9.981	9.958	10.009	VV	12495	201695	1.87%	0.051%
202	10.023	10.009	10.035	VV	10248	112238	1.04%	0.028%
203	10.052	10.035	10.072	VV	19674	263188	2.44%	0.066%
204	10.083	10.072	10.097	VV	6210	77608	0.72%	0.020%
205	10.113	10.097	10.135	VV	13769	178043	1.65%	0.045%
206	10.145	10.135	10.157	VV	3198	36277	0.34%	0.009%
207	10.181	10.157	10.204	VV	90301	924781	8.58%	0.234%
208	10.228	10.204	10.266	VV	14507	261371	2.42%	0.066%
209	10.278	10.266	10.294	VV	5156	75770	0.70%	0.019%
210	10.315	10.294	10.370	VV	24041	471331	4.37%	0.119%
211	10.390	10.370	10.407	VV	3719	59517	0.55%	0.015%
212	10.425	10.407	10.451	VV	5440	69575	0.65%	0.018%
213	10.470	10.451	10.476	VV	2229	21043	0.20%	0.005%
214	10.493	10.476	10.522	VV	4925	91712	0.85%	0.023%
215	10.531	10.522	10.544	VV	1803	20115	0.19%	0.005%
216	10.548	10.544	10.571	VV	1375	15581	0.14%	0.004%
217	10.594	10.571	10.608	PV	1970	24305	0.23%	0.006%
218	10.620	10.608	10.634	VV	1457	17392	0.16%	0.004%
219	10.657	10.634	10.683	VV	10223	148356	1.38%	0.037%
220	10.707	10.683	10.736	VV	14021	215696	2.00%	0.054%
221	10.763	10.736	10.774	VV	11589	160944	1.49%	0.041%
222	10.792	10.774	10.816	VV	24404	336135	3.12%	0.085%
223	10.833	10.816	10.875	VV	15480	246101	2.28%	0.062%
224	10.910	10.875	10.942	VV	14511	276706	2.57%	0.070%
225	10.962	10.942	10.981	VV	23607	321005	2.98%	0.081%
226	10.987	10.981	11.002	VV	9120	97716	0.91%	0.025%
227	11.011	11.002	11.027	VV	6318	78393	0.73%	0.020%
228	11.058	11.027	11.073	VV	24634	358825	3.33%	0.091%
229	11.083	11.073	11.097	VV	11790	129403	1.20%	0.033%
230	11.122	11.097	11.176	VV	28007	676238	6.27%	0.171%
231	11.189	11.176	11.202	VV	5374	78838	0.73%	0.020%
232	11.216	11.202	11.235	VV	6904	90539	0.84%	0.023%
233	11.258	11.235	11.272	VV	3661	61283	0.57%	0.015%
234	11.285	11.272	11.294	VV	6199	65372	0.61%	0.017%
235	11.323	11.294	11.359	VV	383959	4138068	38.38%	1.045%
236	11.394	11.359	11.434	VV	93885	1134487	10.52%	0.286%
237	11.455	11.434	11.482	VV	5447	114702	1.06%	0.029%
238	11.499	11.482	11.507	VV	4160	58884	0.55%	0.015%
239	11.514	11.507	11.525	VV	3948	38770	0.36%	0.010%
240	11.533	11.525	11.549	VV	4003	46899	0.44%	0.012%
241	11.569	11.549	11.587	VV	5736	92408	0.86%	0.023%
242	11.605	11.587	11.650	VV	21090	322921	3.00%	0.082%
243	11.681	11.650	11.698	PV	6433	120244	1.12%	0.030%
244	11.717	11.698	11.733	VV	7189	118888	1.10%	0.030%
245	11.767	11.733	11.787	VV	25020	381027	3.53%	0.096%
246	11.815	11.787	11.820	VV	6423	110125	1.02%	0.028%

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247	11.857	11.820	11.889	VV	35272	697627	6.47%	0.176%
248	11.924	11.889	11.944	VV	11021	185977	1.73%	0.047%
249	11.976	11.944	12.002	VV	20295	326371	3.03%	0.082%
250	12.016	12.002	12.039	VV	9654	147286	1.37%	0.037%
251	12.059	12.039	12.069	VV	7730	113679	1.05%	0.029%
252	12.079	12.069	12.102	VV	8395	118062	1.10%	0.030%
253	12.130	12.102	12.144	VV	80780	937036	8.69%	0.237%
254	12.160	12.144	12.196	VV	97230	1091886	10.13%	0.276%
255	12.227	12.196	12.234	VV	39639	436718	4.05%	0.110%
256	12.247	12.234	12.263	VV	57947	688288	6.38%	0.174%
257	12.280	12.263	12.294	VV	70145	797475	7.40%	0.201%
258	12.311	12.294	12.366	VV	84453	1069967	9.92%	0.270%
259	12.384	12.366	12.397	VV	5740	75223	0.70%	0.019%
260	12.443	12.397	12.463	VV	23645	481434	4.47%	0.122%
261	12.486	12.463	12.507	VV	32298	450298	4.18%	0.114%
262	12.531	12.507	12.558	VV	13521	259472	2.41%	0.066%
263	12.602	12.558	12.623	VV	42243	584470	5.42%	0.148%
264	12.636	12.623	12.650	VV	9485	115737	1.07%	0.029%
265	12.669	12.650	12.676	VV	16862	187046	1.73%	0.047%
266	12.694	12.676	12.730	VV	65336	891196	8.27%	0.225%
267	12.752	12.730	12.769	VV	16312	245118	2.27%	0.062%
268	12.785	12.769	12.797	VV	8238	97557	0.90%	0.025%
269	12.815	12.797	12.824	VV	11220	134918	1.25%	0.034%
270	12.856	12.824	12.872	VV	18117	359477	3.33%	0.091%
271	12.880	12.872	12.902	VV	12220	160155	1.49%	0.040%
272	12.924	12.902	12.965	VV	28193	482743	4.48%	0.122%
273	12.986	12.965	13.000	PV	21845	253844	2.35%	0.064%
274	13.006	13.000	13.016	VV	11879	94329	0.87%	0.024%
275	13.039	13.016	13.058	VV	65969	903533	8.38%	0.228%
276	13.086	13.058	13.129	VV	36605	1036821	9.62%	0.262%
277	13.160	13.129	13.192	VV	384080	4610073	42.76%	1.164%
278	13.204	13.192	13.237	VV	7730	120259	1.12%	0.030%
279	13.257	13.237	13.272	VV	7462	107515	1.00%	0.027%
280	13.291	13.272	13.306	VV	18953	278566	2.58%	0.070%
281	13.315	13.306	13.328	VV	15245	158048	1.47%	0.040%
282	13.347	13.328	13.360	VV	22488	325780	3.02%	0.082%
283	13.364	13.360	13.386	VV	18926	216361	2.01%	0.055%
284	13.390	13.386	13.398	VV	10459	74076	0.69%	0.019%
285	13.402	13.398	13.430	VV	10280	148583	1.38%	0.038%
286	13.463	13.430	13.497	VV	379900	4595541	42.63%	1.160%
287	13.513	13.497	13.530	VV	45301	523606	4.86%	0.132%
288	13.545	13.530	13.574	VV	31386	464570	4.31%	0.117%
289	13.591	13.574	13.612	VV	13194	233857	2.17%	0.059%
290	13.630	13.612	13.642	VV	21117	272032	2.52%	0.069%
291	13.659	13.642	13.682	VV	20105	309372	2.87%	0.078%
292	13.724	13.682	13.747	PV	26152	549059	5.09%	0.139%
293	13.789	13.747	13.826	VV	22564	662551	6.15%	0.167%
294	13.833	13.826	13.839	VV	4737	36469	0.34%	0.009%
295	13.856	13.839	13.868	VV	16622	191664	1.78%	0.048%
296	13.885	13.868	13.898	VV	13861	188269	1.75%	0.048%
297	13.920	13.898	13.956	VV	45859	912774	8.47%	0.230%
298	13.960	13.956	14.000	VV	10981	199404	1.85%	0.050%
299	14.051	14.000	14.082	VV	76847	1342546	12.45%	0.339%

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300	14.096	14.082	14.104	VV	5322	62164	0.58%	0.016%
301	14.118	14.104	14.134	VV	7978	105665	0.98%	0.027%
302	14.162	14.134	14.181	VV	41182	607365	5.63%	0.153%
303	14.200	14.181	14.220	VV	50806	646792	6.00%	0.163%
304	14.243	14.220	14.271	VV	21424	387650	3.60%	0.098%
305	14.331	14.271	14.351	VV	57378	1232176	11.43%	0.311%
306	14.372	14.351	14.401	VV	48377	646837	6.00%	0.163%
307	14.440	14.401	14.472	VV	8663	193020	1.79%	0.049%
308	14.479	14.472	14.491	VV	2628	20319	0.19%	0.005%
309	14.512	14.491	14.520	VV	7292	82942	0.77%	0.021%
310	14.534	14.520	14.553	VV	9234	121068	1.12%	0.031%
311	14.564	14.553	14.574	VV	3855	31571	0.29%	0.008%
312	14.601	14.574	14.624	VV	3936	77953	0.72%	0.020%
313	14.641	14.624	14.652	PV	3811	31966	0.30%	0.008%
314	14.669	14.652	14.678	VV	4591	46192	0.43%	0.012%
315	14.691	14.678	14.707	VV	5378	69354	0.64%	0.018%
316	14.791	14.707	14.812	VV	41856	960955	8.91%	0.243%
317	14.821	14.812	14.840	VV	7933	90043	0.84%	0.023%
318	14.868	14.840	14.883	VV	22457	332361	3.08%	0.084%
319	14.894	14.883	14.927	VV	14821	291633	2.71%	0.074%
320	14.972	14.927	14.993	VV	37772	760343	7.05%	0.192%
321	14.997	14.993	15.016	VV	13248	140304	1.30%	0.035%
322	15.038	15.016	15.059	VV	60251	764212	7.09%	0.193%
323	15.098	15.059	15.122	VV	36865	635321	5.89%	0.160%
324	15.131	15.122	15.135	VV	4968	35839	0.33%	0.009%
325	15.161	15.135	15.178	VV	13500	201955	1.87%	0.051%
326	15.206	15.178	15.257	VV	87506	1399722	12.98%	0.353%
327	15.267	15.257	15.284	PV	3419	34994	0.32%	0.009%
328	15.305	15.284	15.321	VV	16157	198797	1.84%	0.050%
329	15.354	15.321	15.375	VV	191466	2424946	22.49%	0.612%
330	15.397	15.375	15.427	VV	198767	2435855	22.59%	0.615%
331	15.444	15.427	15.467	VV	9760	150541	1.40%	0.038%
332	15.515	15.467	15.541	VV	42971	821744	7.62%	0.208%
333	15.560	15.541	15.577	VV	16108	258880	2.40%	0.065%
334	15.591	15.577	15.629	VV	15221	278766	2.59%	0.070%
335	15.663	15.629	15.697	PV	22202	514292	4.77%	0.130%
336	15.715	15.697	15.736	VV	15874	253343	2.35%	0.064%
337	15.742	15.736	15.763	VV	5703	52120	0.48%	0.013%
338	15.796	15.763	15.833	VV	48353	943142	8.75%	0.238%
339	15.838	15.833	15.859	VV	12697	119168	1.11%	0.030%
340	15.871	15.859	15.886	VV	4876	48497	0.45%	0.012%
341	15.889	15.886	15.911	VV	3760	30056	0.28%	0.008%
342	15.957	15.911	15.980	VV	187998	2688116	24.93%	0.679%
343	15.990	15.980	16.005	VV	14986	179205	1.66%	0.045%
344	16.033	16.005	16.054	VV	67172	900331	8.35%	0.227%
345	16.073	16.054	16.105	VV	33050	490234	4.55%	0.124%
346	16.120	16.105	16.128	VV	10223	98035	0.91%	0.025%
347	16.196	16.128	16.229	VV	34906	1111455	10.31%	0.281%
348	16.271	16.229	16.293	VV	12095	249634	2.32%	0.063%
349	16.331	16.293	16.336	VV	8506	138642	1.29%	0.035%
350	16.360	16.336	16.382	VV	14634	252750	2.34%	0.064%
351	16.395	16.382	16.414	VV	14067	166946	1.55%	0.042%

rteres								
352	16.440	16.414	16.462	VV	25690	466381	4.33%	0.118%
353	16.476	16.462	16.498	VV	16047	269125	2.50%	0.068%
354	16.509	16.498	16.520	VV	7718	72469	0.67%	0.018%
355	16.545	16.520	16.554	VV	4393	74172	0.69%	0.019%
356	16.571	16.554	16.595	VV	5163	74877	0.69%	0.019%
357	16.645	16.595	16.667	PV	22098	488652	4.53%	0.123%
358	16.676	16.667	16.690	VV	11599	100401	0.93%	0.025%
359	16.745	16.690	16.779	VV	20648	644467	5.98%	0.163%
360	16.819	16.779	16.824	VV	20216	365990	3.39%	0.092%
361	16.846	16.824	16.880	VV	26459	544108	5.05%	0.137%
362	16.932	16.880	16.952	PV	183272	2867788	26.60%	0.724%
363	16.958	16.952	16.995	VV	70327	727678	6.75%	0.184%
364	17.062	16.995	17.085	VV	43339	974169	9.04%	0.246%
365	17.108	17.085	17.118	VV	19848	325823	3.02%	0.082%
366	17.123	17.118	17.132	VV	16597	121097	1.12%	0.031%
367	17.158	17.132	17.174	VV	20329	343557	3.19%	0.087%
368	17.187	17.174	17.196	VV	12156	132373	1.23%	0.033%
369	17.258	17.196	17.284	VV	115834	2281020	21.16%	0.576%
370	17.317	17.284	17.347	VV	135255	2109925	19.57%	0.533%
371	17.415	17.347	17.454	VV	57845	2108292	19.56%	0.532%
372	17.470	17.454	17.495	VV	33476	672456	6.24%	0.170%
373	17.578	17.495	17.597	VV	37208	1650726	15.31%	0.417%
374	17.622	17.597	17.627	VV	33091	514399	4.77%	0.130%
375	17.636	17.627	17.641	VV	31560	255452	2.37%	0.065%
376	17.667	17.641	17.674	VV	37624	659401	6.12%	0.167%
377	17.682	17.674	17.703	VV	42417	703981	6.53%	0.178%
378	17.708	17.703	17.714	VV	41696	249268	2.31%	0.063%
379	17.721	17.714	17.751	VV	47025	896972	8.32%	0.226%
380	17.777	17.751	17.795	VV	38944	921105	8.54%	0.233%
381	17.814	17.795	17.821	VV	49474	694795	6.44%	0.175%
382	17.847	17.821	17.877	VV	75816	1858282	17.24%	0.469%
383	17.901	17.877	17.926	VV	51119	1195343	11.09%	0.302%
384	17.937	17.926	17.957	VV	49316	748788	6.95%	0.189%
385	17.986	17.957	18.010	VV	70594	1592197	14.77%	0.402%
386	18.035	18.010	18.059	VV	51565	1254071	11.63%	0.317%
387	18.068	18.059	18.083	VV	38142	497441	4.61%	0.126%
388	18.090	18.083	18.099	VV	36656	316251	2.93%	0.080%
389	18.104	18.099	18.117	VV	36530	374291	3.47%	0.095%
390	18.129	18.117	18.137	VV	36389	401822	3.73%	0.101%
391	18.144	18.137	18.151	VV	35572	279733	2.59%	0.071%
392	18.212	18.151	18.237	VV	52883	2007218	18.62%	0.507%
393	18.243	18.237	18.246	VV	45364	238647	2.21%	0.060%
394	18.301	18.246	18.335	VV	95456	3300465	30.61%	0.833%
395	18.362	18.335	18.385	VV	54797	1333386	12.37%	0.337%
396	18.459	18.385	18.531	VV	121840	5719601	53.05%	1.444%
397	18.556	18.531	18.581	VV	63468	1525842	14.15%	0.385%
398	18.610	18.581	18.615	VV	72865	1228659	11.40%	0.310%
399	18.619	18.615	18.627	VV	67352	454891	4.22%	0.115%
400	18.631	18.627	18.637	VV	67401	390020	3.62%	0.098%
401	18.653	18.637	18.659	VV	82685	940648	8.72%	0.238%
402	18.663	18.659	18.680	VV	90815	997417	9.25%	0.252%
403	18.710	18.680	18.755	VV	146035	4268315	39.59%	1.078%
404	18.761	18.755	18.767	VV	59801	414049	3.84%	0.105%

rteres								
405	18.799	18.767	18.806	VV	70338	1453369	13.48%	0.367%
406	18.837	18.806	18.859	VV	136302	3130760	29.04%	0.791%
407	18.870	18.859	18.892	VV	97965	1653247	15.33%	0.417%
408	18.899	18.892	18.911	VV	72967	764009	7.09%	0.193%
409	18.915	18.911	18.925	VV	63350	530177	4.92%	0.134%
410	18.934	18.925	18.940	VV	63734	550926	5.11%	0.139%
411	18.967	18.940	18.991	VV	149819	3167935	29.38%	0.800%
412	19.000	18.991	19.017	VV	78082	1111123	10.31%	0.281%
413	19.030	19.017	19.035	VV	72887	770204	7.14%	0.194%
414	19.048	19.035	19.073	VV	80495	1617610	15.00%	0.408%
415	19.096	19.073	19.116	VV	93614	2180574	20.23%	0.551%
416	19.139	19.116	19.179	VV	125710	3466273	32.15%	0.875%
417	19.183	19.179	19.188	VV	68231	363453	3.37%	0.092%
418	19.217	19.188	19.234	VV	79766	1980927	18.37%	0.500%
419	19.258	19.234	19.285	VV	137919	3155403	29.27%	0.797%
420	19.309	19.285	19.332	VV	128972	2947180	27.34%	0.744%
421	19.337	19.332	19.344	VV	90088	603541	5.60%	0.152%
422	19.374	19.344	19.378	VV	88277	1742106	16.16%	0.440%
423	19.400	19.378	19.420	VV	104667	2393170	22.20%	0.604%
424	19.430	19.420	19.457	VV	103681	2101501	19.49%	0.531%
425	19.507	19.457	19.519	VV	124536	3881950	36.01%	0.980%
426	19.539	19.519	19.572	VV	150768	3929593	36.45%	0.992%
427	19.592	19.572	19.624	VV	132447	3503675	32.50%	0.885%
428	19.661	19.624	19.698	VV	143882	5281672	48.99%	1.334%
429	19.731	19.698	19.754	VV	117837	3702765	34.34%	0.935%
430	19.763	19.754	19.767	VV	122050	913930	8.48%	0.231%
431	19.783	19.767	19.805	VV	121320	2640339	24.49%	0.667%
432	19.812	19.805	19.817	VV	118289	824744	7.65%	0.208%
433	19.834	19.817	19.859	VV	124269	2964456	27.50%	0.749%
434	19.864	19.859	19.880	VV	119713	1454186	13.49%	0.367%
435	19.894	19.880	19.899	VV	116907	1276831	11.84%	0.322%
436	19.931	19.899	19.955	VV	176873	4801464	44.54%	1.212%
437	19.977	19.955	19.997	VV	148055	3432290	31.84%	0.867%
438	20.006	19.997	20.011	VV	129846	1046105	9.70%	0.264%
439	20.014	20.011	20.017	VV	127501	514948	4.78%	0.130%
440	20.071	20.017	20.105	VV	162524	7443387	69.04%	1.880%
441	20.138	20.105	20.165	VV	176624	5914873	54.86%	1.494%
442	20.181	20.165	20.186	VV	175841	2046034	18.98%	0.517%
443	20.216	20.186	20.247	VV	191952	6427588	59.62%	1.623%
444	20.267	20.247	20.275	VV	163697	2737903	25.40%	0.691%
445	20.309	20.275	20.345	VV	236841	8048013	74.65%	2.032%
446	20.366	20.345	20.371	VV	185306	2736466	25.38%	0.691%
447	20.376	20.371	20.415	VV	179576	4525325	41.97%	1.143%
448	20.421	20.415	20.427	VV	168613	1142875	10.60%	0.289%
449	20.438	20.427	20.445	VV	176763	1874264	17.38%	0.473%
450	20.462	20.445	20.472	VV	173851	2699140	25.04%	0.682%
451	20.489	20.472	20.502	VV	192300	3291870	30.53%	0.831%
452	20.524	20.502	20.528	VV	220644	3237420	30.03%	0.817%
453	20.533	20.528	20.555	VV	225067	3356580	31.13%	0.848%
454	20.559	20.555	20.570	VV	200301	1679228	15.58%	0.424%
455	20.599	20.570	20.607	VV	225404	4574727	42.43%	1.155%
456	20.612	20.607	20.639	VV	222830	3951330	36.65%	0.998%

rteres								
457	20.679	20.639	20.724	VV	248045	10781219	100.00%	2.722%
458	20.728	20.724	20.742	VV	205390	2237266	20.75%	0.565%
459	20.744	20.742	20.747	VV	204376	562946	5.22%	0.142%
460	20.767	20.747	20.782	VV	224409	4542690	42.14%	1.147%
461	20.789	20.782	20.813	VV	214182	3766880	34.94%	0.951%
462	20.819	20.813	20.830	VV	206232	2001460	18.56%	0.505%
463	20.837	20.830	20.842	VV	205027	1431766	13.28%	0.362%
464	20.854	20.842	20.859	VV	207078	2035720	18.88%	0.514%
465	20.864	20.859	20.882	VV	209719	2715600	25.19%	0.686%
466	20.892	20.882	20.915	VV	209805	3981862	36.93%	1.005%
467	20.919	20.915	20.936	VV	212241	2480950	23.01%	0.626%
468	20.942	20.936	20.958	VV	186859	2379647	22.07%	0.601%
469	20.964	20.958	20.976	VV	188264	1953876	18.12%	0.493%
470	20.980	20.976	20.994	VV	184275	1856284	17.22%	0.469%
471	21.001	20.994	21.023	VV	170243	2932719	27.20%	0.741%
472	21.061	21.023	21.102	VV	226051	8742774	81.09%	2.208%
473	21.114	21.102	21.142	VV	173537	4032849	37.41%	1.018%
474	21.155	21.142	21.164	VV	162129	2053992	19.05%	0.519%
475	21.179	21.164	21.189	VV	171295	2454270	22.76%	0.620%
476	21.202	21.189	21.212	VV	181486	2435951	22.59%	0.615%
477	21.213	21.212	21.262	VV	177752	4915304	45.59%	1.241%
478	21.274	21.262	21.291	VV	162839	2721095	25.24%	0.687%
479	21.298	21.291	21.312	VV	156580	1889447	17.53%	0.477%
480	21.316	21.312	21.364	VV	155380	4515556	41.88%	1.140%
481	21.369	21.364	21.397	VV	130803	2533006	23.49%	0.640%
482	21.403	21.397	21.414	VV	130053	1306285	12.12%	0.330%
483	21.425	21.414	21.440	VV	142302	1976347	18.33%	0.499%
484	21.481	21.440	21.541	VV	156564	7891304	73.19%	1.993%
485	21.545	21.541	21.563	VV	110591	1321203	12.25%	0.334%
486	21.584	21.563	21.590	VV	109888	1648533	15.29%	0.416%
487	21.593	21.590	21.604	VV	112567	882324	8.18%	0.223%
488	21.617	21.604	21.636	VV	116070	1982422	18.39%	0.501%
489	21.640	21.636	21.645	VV	108884	572024	5.31%	0.144%
490	21.661	21.645	21.687	VV	115189	2587756	24.00%	0.653%
491	21.690	21.687	21.726	VV	100567	2191102	20.32%	0.553%
492	21.738	21.726	21.744	VV	96428	1006594	9.34%	0.254%
493	21.749	21.744	21.777	VV	93037	1713899	15.90%	0.433%
494	21.786	21.777	21.809	VV	97530	1609274	14.93%	0.406%
495	21.829	21.809	21.852	VV	83455	2102561	19.50%	0.531%
496	21.857	21.852	21.860	VV	87533	390600	3.62%	0.099%
497	21.864	21.860	21.887	VV	86579	1157854	10.74%	0.292%
498	21.895	21.887	21.925	VV	75603	1455717	13.50%	0.368%
499	21.964	21.925	22.003	VV	95453	3582590	33.23%	0.905%
500	22.009	22.003	22.012	VV	65089	316464	2.94%	0.080%
501	22.015	22.012	22.025	VV	64718	432258	4.01%	0.109%
502	22.035	22.025	22.047	VV	56778	688940	6.39%	0.174%
503	22.056	22.047	22.071	VV	61110	758663	7.04%	0.192%
504	22.079	22.071	22.151	VV	58217	2102303	19.50%	0.531%
505	22.157	22.151	22.176	VV	35533	461481	4.28%	0.117%
506	22.215	22.176	22.232	VV	30642	812967	7.54%	0.205%
507	22.260	22.232	22.309	VV	30278	1042808	9.67%	0.263%
508	22.324	22.309	22.335	VV	26382	256832	2.38%	0.065%
509	22.338	22.335	22.346	VV	12202	54586	0.51%	0.014%

510 22.375 22.346 22.400 PBA 11829 366097 3.40% 0.092%

Sum of corrected areas: 396020724

FG070925.M Fri Jul 11 05:01:49 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016279.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 16:42
Operator : YP\AJ
Sample : Q2473-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PIT#3

A

B

C

D

E

F

G

Integration File: autoint1.e
Quant Time: Jul 11 04:15:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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...	15.209	1174487	11.746 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

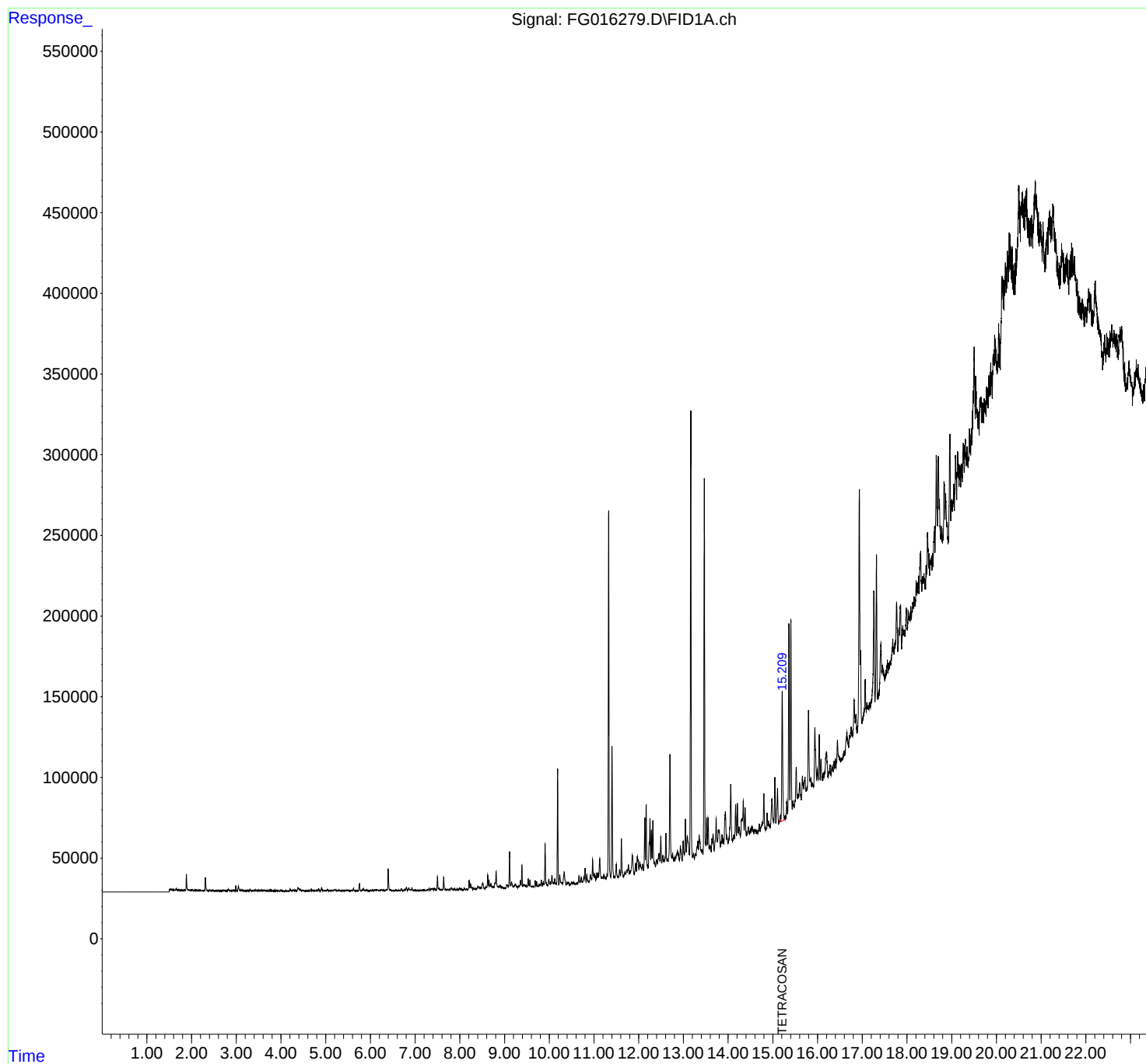
(m)=manual int.

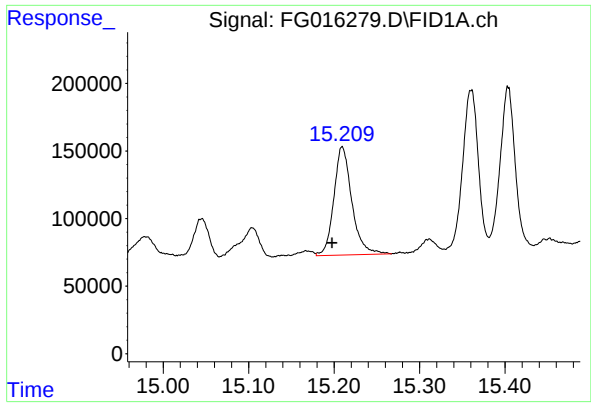
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016279.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 16:42
Operator : YP\AJ
Sample : Q2473-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PIT#3

Integration File: autoint1.e
Quant Time: Jul 11 04:15:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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.: 15.209 min
Delta R.T.: 0.012 min
Response: 1174487
Conc: 11.75 ug/ml

Instrument :
FID_G
ClientSampleId :
PIT#3

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016279.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 16:42
Sample : Q2473-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.020	2.000	2.035	BV	77	507	0.01%	0.000%
2	2.044	2.035	2.050	PV	91	437	0.01%	0.000%
3	2.059	2.050	2.064	VV	149	809	0.01%	0.000%
4	2.068	2.064	2.089	VV	162	940	0.01%	0.000%
5	2.092	2.089	2.096	PV	82	174	0.00%	0.000%
6	2.101	2.096	2.107	PV	147	435	0.01%	0.000%
7	2.111	2.107	2.115	VV	148	553	0.01%	0.000%
8	2.117	2.115	2.120	VV	186	378	0.01%	0.000%
9	2.125	2.120	2.151	VV	303	2761	0.04%	0.001%
10	2.156	2.151	2.170	VV	134	1085	0.02%	0.000%
11	2.188	2.170	2.205	VV	129	1551	0.02%	0.001%
12	2.208	2.205	2.214	VV	110	426	0.01%	0.000%
13	2.221	2.214	2.232	VV	101	737	0.01%	0.000%
14	2.237	2.232	2.255	PV	124	781	0.01%	0.000%
15	2.260	2.255	2.269	PV	66	366	0.01%	0.000%
16	2.283	2.269	2.295	VV	153	1716	0.03%	0.001%
17	2.308	2.295	2.386	VV	8229	92730	1.45%	0.032%
18	2.408	2.386	2.447	PV	670	9475	0.15%	0.003%
19	2.460	2.447	2.516	VV	615	10013	0.16%	0.003%
20	2.518	2.516	2.524	VV	92	180	0.00%	0.000%
21	2.545	2.524	2.550	PV	145	992	0.02%	0.000%
22	2.553	2.550	2.558	VV	96	441	0.01%	0.000%
23	2.572	2.558	2.577	VV	139	1183	0.02%	0.000%
24	2.586	2.577	2.596	VV	178	1640	0.03%	0.001%
25	2.600	2.596	2.605	VV	197	829	0.01%	0.000%
26	2.609	2.605	2.644	VV	198	2688	0.04%	0.001%
27	2.651	2.644	2.657	VV	153	722	0.01%	0.000%
28	2.662	2.657	2.680	VV	183	1347	0.02%	0.000%
29	2.709	2.680	2.731	VV	642	8614	0.13%	0.003%
30	2.735	2.731	2.764	VV	253	3523	0.06%	0.001%
31	2.781	2.764	2.797	VV	163	1887	0.03%	0.001%
32	2.822	2.797	2.877	PV	954	17940	0.28%	0.006%
33	2.904	2.877	2.926	VV	296	5640	0.09%	0.002%
34	2.936	2.926	2.972	VV	390	6752	0.11%	0.002%
35	2.979	2.972	2.986	VV	155	1120	0.02%	0.000%
36	2.989	2.986	2.994	VV	2220	2636	0.04%	0.001%

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37	3.047	2.994	3.089	VV	3016	55426	0.87%	0.0019%	
38	3.100	3.089	3.122	VV	751	9520	0.15%	0.003%	
39	3.137	3.122	3.170	VV	543	10084	0.16%	0.003%	
40	3.175	3.170	3.190	VV	216	2332	0.04%	0.001%	
41	3.193	3.190	3.201	VV	164	1031	0.02%	0.000%	
42	3.206	3.201	3.215	VV	227	1187	0.02%	0.000%	
43	3.219	3.215	3.230	VV	208	1056	0.02%	0.000%	
44	3.253	3.230	3.285	VV	412	8152	0.13%	0.003%	
45	3.304	3.285	3.340	VV	935	14119	0.22%	0.005%	
46	3.344	3.340	3.357	VV	204	1726	0.03%	0.001%	
47	3.359	3.357	3.364	VV	184	557	0.01%	0.000%	
48	3.367	3.364	3.372	VV	195	724	0.01%	0.000%	
49	3.407	3.372	3.411	VV	442	5839	0.09%	0.002%	
50	3.421	3.411	3.452	VV	832	13164	0.21%	0.005%	
51	3.458	3.452	3.480	VV	434	5671	0.09%	0.002%	
52	3.483	3.480	3.487	VV	370	1561	0.02%	0.001%	
53	3.501	3.487	3.522	VV	450	7575	0.12%	0.003%	
54	3.539	3.522	3.559	VV	483	9170	0.14%	0.003%	
55	3.563	3.559	3.570	VV	437	2487	0.04%	0.001%	
56	3.579	3.570	3.589	VV	394	4291	0.07%	0.001%	
57	3.632	3.589	3.682	VV	573	20338	0.32%	0.007%	
58	3.688	3.682	3.694	VV	127	947	0.01%	0.000%	
59	3.698	3.694	3.712	VV	206	1766	0.03%	0.001%	
60	3.755	3.712	3.807	VV	522	17489	0.27%	0.006%	
61	3.814	3.807	3.827	VV	177	1811	0.03%	0.001%	
62	3.858	3.827	3.881	VV	389	7387	0.12%	0.003%	
63	3.906	3.881	3.929	VV	267	4885	0.08%	0.002%	
64	3.933	3.929	3.942	VV	115	734	0.01%	0.000%	
65	3.944	3.942	3.957	VV	178	904	0.01%	0.000%	
66	4.002	3.957	4.015	VV	622	8423	0.13%	0.003%	
67	4.027	4.015	4.048	VV	317	4468	0.07%	0.002%	
68	4.063	4.048	4.083	VV	144	1811	0.03%	0.001%	
69	4.102	4.083	4.161	PV	392	7345	0.11%	0.003%	
70	4.202	4.161	4.251	PV	1322	23809	0.37%	0.008%	
71	4.266	4.251	4.288	VV	750	10720	0.17%	0.004%	
72	4.297	4.288	4.317	VV	434	5855	0.09%	0.002%	
73	4.321	4.317	4.354	VV	370	4427	0.07%	0.002%	
74	4.376	4.354	4.406	VV	2031	40032	0.63%	0.014%	
75	4.417	4.406	4.430	VV	1299	15514	0.24%	0.005%	
76	4.435	4.430	4.465	VV	937	12084	0.19%	0.004%	
77	4.470	4.465	4.482	VV	333	3052	0.05%	0.001%	
78	4.486	4.482	4.492	VV	303	1540	0.02%	0.001%	
79	4.506	4.492	4.527	VV	388	5351	0.08%	0.002%	
80	4.533	4.527	4.548	VV	143	1458	0.02%	0.000%	
81	4.552	4.548	4.566	VV	128	1512	0.02%	0.001%	
82	4.570	4.566	4.584	VV	181	1704	0.03%	0.001%	
83	4.589	4.584	4.593	VV	189	976	0.02%	0.000%	
84	4.598	4.593	4.610	VV	221	1831	0.03%	0.001%	
85	4.627	4.610	4.654	VV	392	5982	0.09%	0.002%	
86	4.675	4.654	4.700	VV	766	11038	0.17%	0.004%	
87	4.714	4.700	4.732	VV	497	6220	0.10%	0.002%	
88	4.750	4.732	4.773	VV	352	4941	0.08%	0.002%	
89	4.799	4.773	4.821	VV	503	8715	0.14%	0.003%	

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90	4.838	4.821	4.882	VV	1147	18363	0.29%	0.006%
91	4.907	4.882	4.948	VV	2098	32491	0.51%	0.011%
92	4.963	4.948	4.980	VV	377	4957	0.08%	0.002%
93	4.991	4.980	5.007	VV	289	3403	0.05%	0.001%
94	5.040	5.007	5.067	VV	786	15050	0.24%	0.005%
95	5.081	5.067	5.111	VV	371	7903	0.12%	0.003%
96	5.146	5.111	5.159	VV	490	10346	0.16%	0.004%
97	5.175	5.159	5.209	VV	685	16609	0.26%	0.006%
98	5.233	5.209	5.271	VV	662	16976	0.27%	0.006%
99	5.299	5.271	5.319	VV	478	10365	0.16%	0.004%
100	5.330	5.319	5.362	VV	509	7062	0.11%	0.002%
101	5.388	5.362	5.410	VV	403	7646	0.12%	0.003%
102	5.421	5.410	5.427	VV	355	2647	0.04%	0.001%
103	5.436	5.427	5.452	VV	403	4351	0.07%	0.001%
104	5.483	5.452	5.490	VV	638	9853	0.15%	0.003%
105	5.493	5.490	5.515	VV	583	6160	0.10%	0.002%
106	5.525	5.515	5.548	VV	394	4324	0.07%	0.001%
107	5.564	5.548	5.576	VV	436	4987	0.08%	0.002%
108	5.582	5.576	5.602	VV	300	3397	0.05%	0.001%
109	5.621	5.602	5.648	VV	1697	19381	0.30%	0.007%
110	5.664	5.648	5.685	VV	315	4732	0.07%	0.002%
111	5.697	5.685	5.716	VV	299	3403	0.05%	0.001%
112	5.755	5.716	5.799	VV	4549	50849	0.79%	0.017%
113	5.819	5.799	5.833	VV	728	8980	0.14%	0.003%
114	5.848	5.833	5.880	VV	1840	23036	0.36%	0.008%
115	5.892	5.880	5.902	VV	785	4833	0.08%	0.002%
116	5.917	5.902	5.953	VV	941	11860	0.19%	0.004%
117	5.957	5.953	5.971	VV	109	853	0.01%	0.000%
118	6.014	5.971	6.032	PV	467	7668	0.12%	0.003%
119	6.045	6.032	6.056	VV	332	3806	0.06%	0.001%
120	6.060	6.056	6.073	VV	347	3188	0.05%	0.001%
121	6.091	6.073	6.108	VV	694	10591	0.17%	0.004%
122	6.114	6.108	6.122	VV	517	3931	0.06%	0.001%
123	6.135	6.122	6.151	VV	796	10134	0.16%	0.003%
124	6.163	6.151	6.202	VV	595	12167	0.19%	0.004%
125	6.246	6.202	6.270	VV	623	15774	0.25%	0.005%
126	6.286	6.270	6.319	VV	520	11320	0.18%	0.004%
127	6.330	6.319	6.336	VV	384	3439	0.05%	0.001%
128	6.354	6.336	6.373	VV	937	14222	0.22%	0.005%
129	6.397	6.373	6.436	VV	13635	154152	2.41%	0.053%
130	6.448	6.436	6.454	VV	587	5591	0.09%	0.002%
131	6.463	6.454	6.490	VV	668	8210	0.13%	0.003%
132	6.508	6.490	6.523	VV	335	3965	0.06%	0.001%
133	6.546	6.523	6.557	PV	489	5452	0.09%	0.002%
134	6.566	6.557	6.579	VV	492	5152	0.08%	0.002%
135	6.583	6.579	6.606	VV	468	4508	0.07%	0.002%
136	6.626	6.606	6.640	VV	433	5625	0.09%	0.002%
137	6.652	6.640	6.668	VV	474	5776	0.09%	0.002%
138	6.692	6.668	6.727	VV	1085	18011	0.28%	0.006%
139	6.744	6.727	6.757	VV	391	4550	0.07%	0.002%
140	6.774	6.757	6.790	VV	1014	12906	0.20%	0.004%
141	6.805	6.790	6.828	VV	2161	26210	0.41%	0.009%

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142	6.858	6.828	6.879	VV	1829	27697	0.43%	0.009%
143	6.892	6.879	6.911	VV	922	10715	0.17%	0.004%
144	6.928	6.911	6.967	VV	1710	20612	0.32%	0.007%
145	6.982	6.967	6.999	VV	259	4252	0.07%	0.001%
146	7.012	6.999	7.039	VV	449	5532	0.09%	0.002%
147	7.051	7.039	7.077	VV	393	5818	0.09%	0.002%
148	7.095	7.077	7.100	PV	126	1230	0.02%	0.000%
149	7.144	7.100	7.160	VV	387	7122	0.11%	0.002%
150	7.182	7.160	7.239	VV	522	10321	0.16%	0.004%
151	7.270	7.239	7.289	VV	676	8660	0.14%	0.003%
152	7.311	7.289	7.329	VV	1577	17250	0.27%	0.006%
153	7.349	7.329	7.354	VV	899	8265	0.13%	0.003%
154	7.365	7.354	7.385	VV	986	16346	0.26%	0.006%
155	7.388	7.385	7.394	VV	835	4476	0.07%	0.002%
156	7.398	7.394	7.418	VV	877	10374	0.16%	0.004%
157	7.434	7.418	7.468	VV	1322	20886	0.33%	0.007%
158	7.499	7.468	7.518	VV	8493	92377	1.44%	0.032%
159	7.525	7.518	7.566	VV	1279	20030	0.31%	0.007%
160	7.587	7.566	7.614	VV	748	11832	0.18%	0.004%
161	7.639	7.614	7.665	VV	8218	86379	1.35%	0.030%
162	7.677	7.665	7.696	VV	788	9690	0.15%	0.003%
163	7.710	7.696	7.722	VV	490	6615	0.10%	0.002%
164	7.732	7.722	7.749	VV	551	6498	0.10%	0.002%
165	7.763	7.749	7.774	VV	440	5128	0.08%	0.002%
166	7.810	7.774	7.851	VV	1511	32659	0.51%	0.011%
167	7.876	7.851	7.880	VV	558	7854	0.12%	0.003%
168	7.887	7.880	7.923	VV	625	10065	0.16%	0.003%
169	7.939	7.923	7.959	VV	510	7363	0.12%	0.003%
170	7.968	7.959	7.973	VV	343	2260	0.04%	0.001%
171	7.992	7.973	8.017	VV	966	16868	0.26%	0.006%
172	8.021	8.017	8.038	VV	519	5616	0.09%	0.002%
173	8.045	8.038	8.071	VV	493	4373	0.07%	0.001%
174	8.100	8.071	8.125	PV	917	14954	0.23%	0.005%
175	8.146	8.125	8.168	VV	370	6835	0.11%	0.002%
176	8.177	8.168	8.181	VV	279	1930	0.03%	0.001%
177	8.208	8.181	8.225	VV	5722	63876	1.00%	0.022%
178	8.243	8.225	8.260	VV	3421	45195	0.71%	0.015%
179	8.270	8.260	8.287	VV	1394	17425	0.27%	0.006%
180	8.299	8.287	8.328	VV	712	12009	0.19%	0.004%
181	8.341	8.328	8.363	VV	551	7564	0.12%	0.003%
182	8.404	8.363	8.420	VV	2125	34073	0.53%	0.012%
183	8.434	8.420	8.444	VV	1226	15764	0.25%	0.005%
184	8.452	8.444	8.484	VV	1051	19043	0.30%	0.007%
185	8.504	8.484	8.511	VV	3552	36923	0.58%	0.013%
186	8.518	8.511	8.555	VV	3514	38727	0.61%	0.013%
187	8.586	8.555	8.598	VV	1262	21126	0.33%	0.007%
188	8.625	8.598	8.640	VV	8652	101427	1.59%	0.035%
189	8.653	8.640	8.671	VV	5296	62108	0.97%	0.021%
190	8.696	8.671	8.725	VV	2738	61097	0.95%	0.021%
191	8.738	8.725	8.749	VV	1308	16108	0.25%	0.006%
192	8.754	8.749	8.764	VV	1051	8032	0.13%	0.003%
193	8.789	8.764	8.793	VV	3245	42029	0.66%	0.014%
194	8.812	8.793	8.849	VV	10476	146516	2.29%	0.050%

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195	8.867	8.849	8.884	VV	1607	23528	0.37%	0.008%
196	8.903	8.884	8.919	VV	2230	27729	0.43%	0.010%
197	8.927	8.919	8.940	VV	861	8913	0.14%	0.003%
198	8.948	8.940	8.968	VV	703	8281	0.13%	0.003%
199	8.977	8.968	9.008	VV	324	3973	0.06%	0.001%
200	9.047	9.008	9.053	PV	2086	20871	0.33%	0.007%
201	9.059	9.053	9.076	VV	2118	22285	0.35%	0.008%
202	9.113	9.076	9.135	VV	22549	247683	3.87%	0.085%
203	9.157	9.135	9.199	VV	3780	73851	1.15%	0.025%
204	9.233	9.199	9.266	VV	2204	53702	0.84%	0.018%
205	9.277	9.266	9.291	VV	715	7850	0.12%	0.003%
206	9.308	9.291	9.319	VV	953	10354	0.16%	0.004%
207	9.357	9.319	9.372	VV	4378	68148	1.07%	0.023%
208	9.388	9.372	9.411	VV	13721	142481	2.23%	0.049%
209	9.429	9.411	9.461	VV	1926	37518	0.59%	0.013%
210	9.480	9.461	9.495	VV	1413	19132	0.30%	0.007%
211	9.529	9.495	9.550	VV	5252	66676	1.04%	0.023%
212	9.568	9.550	9.617	VV	4359	55774	0.87%	0.019%
213	9.632	9.617	9.659	VV	493	5646	0.09%	0.002%
214	9.687	9.659	9.703	PV	3979	45815	0.72%	0.016%
215	9.717	9.703	9.737	VV	3279	32685	0.51%	0.011%
216	9.741	9.737	9.751	VV	319	1797	0.03%	0.001%
217	9.771	9.751	9.787	VV	1436	16018	0.25%	0.005%
218	9.824	9.787	9.846	VV	3762	56437	0.88%	0.019%
219	9.864	9.846	9.883	VV	2319	29508	0.46%	0.010%
220	9.908	9.883	9.961	VV	26105	298357	4.66%	0.102%
221	9.989	9.961	10.018	VV	4209	69806	1.09%	0.024%
222	10.031	10.018	10.041	VV	2567	26054	0.41%	0.009%
223	10.060	10.041	10.079	VV	6642	89225	1.39%	0.031%
224	10.089	10.079	10.103	VV	2294	25179	0.39%	0.009%
225	10.122	10.103	10.142	VV	4378	59533	0.93%	0.020%
226	10.152	10.142	10.161	VV	1319	13783	0.22%	0.005%
227	10.187	10.161	10.212	VV	71987	740656	11.57%	0.254%
228	10.234	10.212	10.281	VV	6653	118898	1.86%	0.041%
229	10.287	10.281	10.301	VV	1658	16767	0.26%	0.006%
230	10.334	10.301	10.378	VV	8164	173614	2.71%	0.059%
231	10.397	10.378	10.415	VV	1925	25511	0.40%	0.009%
232	10.428	10.415	10.455	VV	1483	20617	0.32%	0.007%
233	10.500	10.455	10.525	PV	1481	29572	0.46%	0.010%
234	10.541	10.525	10.561	VV	1300	20820	0.33%	0.007%
235	10.564	10.561	10.582	VV	914	6496	0.10%	0.002%
236	10.601	10.582	10.615	PV	746	8812	0.14%	0.003%
237	10.627	10.615	10.636	VV	551	5876	0.09%	0.002%
238	10.664	10.636	10.693	VV	5127	73289	1.15%	0.025%
239	10.714	10.693	10.733	VV	3974	53180	0.83%	0.018%
240	10.745	10.733	10.750	VV	1074	10056	0.16%	0.003%
241	10.772	10.750	10.783	VV	4060	50842	0.79%	0.017%
242	10.800	10.783	10.823	VV	9249	120052	1.88%	0.041%
243	10.840	10.823	10.891	VV	5236	74243	1.16%	0.025%
244	10.919	10.891	10.950	VV	4806	86652	1.35%	0.030%
245	10.969	10.950	10.988	VV	13914	163059	2.55%	0.056%
246	10.995	10.988	11.008	VV	4569	46629	0.73%	0.016%

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247	11.020	11.008	11.040	VV	4030	51849	0.81%	0.018%
248	11.062	11.040	11.077	VV	5294	71234	1.11%	0.024%
249	11.090	11.077	11.103	VV	5191	59397	0.93%	0.020%
250	11.128	11.103	11.164	VV	13829	240202	3.75%	0.082%
251	11.178	11.164	11.189	VV	1848	25733	0.40%	0.009%
252	11.192	11.189	11.203	VV	1805	13989	0.22%	0.005%
253	11.223	11.203	11.240	VV	3606	49501	0.77%	0.017%
254	11.250	11.240	11.273	VV	1412	22687	0.35%	0.008%
255	11.291	11.273	11.302	VV	3339	37190	0.58%	0.013%
256	11.328	11.302	11.370	VV	228411	2500881	39.08%	0.857%
257	11.403	11.370	11.445	VV	82122	995447	15.56%	0.341%
258	11.455	11.445	11.468	VV	1354	13879	0.22%	0.005%
259	11.498	11.468	11.533	VV	8681	125579	1.96%	0.043%
260	11.572	11.533	11.594	VV	5013	79018	1.23%	0.027%
261	11.613	11.594	11.656	VV	24109	280625	4.39%	0.096%
262	11.695	11.656	11.712	PV	2747	55521	0.87%	0.019%
263	11.739	11.712	11.749	VV	3759	64144	1.00%	0.022%
264	11.772	11.749	11.790	VV	7086	111805	1.75%	0.038%
265	11.802	11.790	11.812	VV	2412	27619	0.43%	0.009%
266	11.857	11.812	11.897	VV	12262	285995	4.47%	0.098%
267	11.932	11.897	11.949	PV	6746	94290	1.47%	0.032%
268	11.969	11.949	12.006	VV	10730	227005	3.55%	0.078%
269	12.024	12.006	12.069	VV	6851	154749	2.42%	0.053%
270	12.086	12.069	12.106	VV	5160	73179	1.14%	0.025%
271	12.137	12.106	12.151	VV	33288	376376	5.88%	0.129%
272	12.168	12.151	12.206	VV	40875	497217	7.77%	0.170%
273	12.253	12.206	12.270	VV	31960	559800	8.75%	0.192%
274	12.286	12.270	12.301	VV	24887	285874	4.47%	0.098%
275	12.317	12.301	12.347	VV	30498	410898	6.42%	0.141%
276	12.355	12.347	12.375	VV	3995	50023	0.78%	0.017%
277	12.398	12.375	12.421	VV	5346	103068	1.61%	0.035%
278	12.452	12.421	12.475	VV	8970	207420	3.24%	0.071%
279	12.495	12.475	12.518	VV	19271	246999	3.86%	0.085%
280	12.540	12.518	12.569	VV	7101	145891	2.28%	0.050%
281	12.609	12.569	12.630	VV	20365	311420	4.87%	0.107%
282	12.642	12.630	12.659	VV	4313	57514	0.90%	0.020%
283	12.700	12.659	12.740	VV	68434	970054	15.16%	0.332%
284	12.759	12.740	12.777	VV	6157	107129	1.67%	0.037%
285	12.790	12.777	12.805	VV	3386	48648	0.76%	0.017%
286	12.820	12.805	12.831	VV	4001	54473	0.85%	0.019%
287	12.863	12.831	12.876	VV	6976	144142	2.25%	0.049%
288	12.884	12.876	12.913	VV	5810	79282	1.24%	0.027%
289	12.934	12.913	12.972	VV	10070	178170	2.78%	0.061%
290	12.994	12.972	13.023	VV	12562	192606	3.01%	0.066%
291	13.045	13.023	13.065	VV	25926	348649	5.45%	0.119%
292	13.089	13.065	13.135	VV	14723	393163	6.14%	0.135%
293	13.166	13.135	13.203	VV	277451	3140499	49.08%	1.076%
294	13.225	13.203	13.244	VV	3296	43422	0.68%	0.015%
295	13.262	13.244	13.278	PV	2560	32843	0.51%	0.011%
296	13.321	13.278	13.338	VV	10062	205147	3.21%	0.070%
297	13.353	13.338	13.410	VV	12845	291501	4.56%	0.100%
298	13.414	13.410	13.437	VV	3058	33250	0.52%	0.011%
299	13.468	13.437	13.505	VV	232818	2598832	40.61%	0.890%

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300	13.521	13.505	13.536	VV	21953	249186	3.89%	0.085%
301	13.552	13.536	13.578	VV	21310	272559	4.26%	0.093%
302	13.600	13.578	13.620	VV	3787	64872	1.01%	0.022%
303	13.638	13.620	13.647	VV	7587	82253	1.29%	0.028%
304	13.664	13.647	13.684	VV	10326	144379	2.26%	0.049%
305	13.732	13.684	13.753	VV	19312	309174	4.83%	0.106%
306	13.780	13.753	13.792	VV	11364	189282	2.96%	0.065%
307	13.801	13.792	13.830	VV	11509	149392	2.33%	0.051%
308	13.864	13.830	13.881	VV	7931	133545	2.09%	0.046%
309	13.892	13.881	13.905	VV	4617	50507	0.79%	0.017%
310	13.938	13.905	14.006	VV	21187	522869	8.17%	0.179%
311	14.058	14.006	14.099	VV	36715	649520	10.15%	0.223%
312	14.127	14.099	14.142	VV	4995	83268	1.30%	0.029%
313	14.167	14.142	14.188	VV	22769	313891	4.91%	0.108%
314	14.207	14.188	14.230	VV	23637	312049	4.88%	0.107%
315	14.249	14.230	14.274	VV	8594	150777	2.36%	0.052%
316	14.303	14.274	14.315	VV	12971	203018	3.17%	0.070%
317	14.338	14.315	14.359	VV	23650	377796	5.90%	0.129%
318	14.380	14.359	14.415	VV	18881	280718	4.39%	0.096%
319	14.453	14.415	14.475	VV	5876	122319	1.91%	0.042%
320	14.529	14.475	14.538	VV	4786	130756	2.04%	0.045%
321	14.546	14.538	14.572	VV	5046	65071	1.02%	0.022%
322	14.576	14.572	14.583	VV	1823	11484	0.18%	0.004%
323	14.593	14.583	14.599	VV	2679	21397	0.33%	0.007%
324	14.605	14.599	14.631	VV	2545	33643	0.53%	0.012%
325	14.643	14.631	14.660	VV	1654	13779	0.22%	0.005%
326	14.695	14.660	14.716	PV	5431	75880	1.19%	0.026%
327	14.774	14.716	14.781	VV	5485	134227	2.10%	0.046%
328	14.799	14.781	14.828	VV	23090	279119	4.36%	0.096%
329	14.832	14.828	14.850	VV	880	5439	0.08%	0.002%
330	14.871	14.850	14.890	PV	10130	122815	1.92%	0.042%
331	14.902	14.890	14.937	VV	4302	61460	0.96%	0.021%
332	14.979	14.937	15.017	VV	17045	349687	5.46%	0.120%
333	15.045	15.017	15.066	VV	29452	381899	5.97%	0.131%
334	15.104	15.066	15.130	VV	21772	348831	5.45%	0.120%
335	15.167	15.130	15.179	PV	3998	53935	0.84%	0.018%
336	15.209	15.179	15.268	VV	80359	1175097	18.36%	0.403%
337	15.277	15.268	15.283	PV	990	3625	0.06%	0.001%
338	15.311	15.283	15.331	VV	9964	120120	1.88%	0.041%
339	15.360	15.331	15.381	VV	118071	1514311	23.67%	0.519%
340	15.404	15.381	15.434	VV	119339	1471334	22.99%	0.504%
341	15.452	15.434	15.479	VV	6729	106203	1.66%	0.036%
342	15.523	15.479	15.549	VV	25391	459904	7.19%	0.158%
343	15.557	15.549	15.576	VV	7328	103098	1.61%	0.035%
344	15.599	15.576	15.635	VV	13935	275058	4.30%	0.094%
345	15.661	15.635	15.688	VV	16362	311996	4.88%	0.107%
346	15.719	15.688	15.743	VV	13913	336147	5.25%	0.115%
347	15.748	15.743	15.757	VV	6008	48857	0.76%	0.017%
348	15.764	15.757	15.768	VV	5798	37957	0.59%	0.013%
349	15.798	15.768	15.839	VV	53583	967106	15.11%	0.331%
350	15.849	15.839	15.868	VV	9515	136457	2.13%	0.047%
351	15.884	15.868	15.913	VV	5672	127294	1.99%	0.044%

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352	15.941	15.913	15.978	VV	38884	747858	11.69%	0.256%
353	15.994	15.978	16.016	VV	11459	182450	2.85%	0.063%
354	16.039	16.016	16.060	VV	32180	434074	6.78%	0.149%
355	16.077	16.060	16.106	VV	15970	235597	3.68%	0.081%
356	16.125	16.106	16.140	VV	5881	82580	1.29%	0.028%
357	16.201	16.140	16.239	VV	16576	502555	7.85%	0.172%
358	16.251	16.239	16.256	VV	3222	21286	0.33%	0.007%
359	16.278	16.256	16.297	VV	6953	97531	1.52%	0.033%
360	16.323	16.297	16.345	PV	4166	71159	1.11%	0.024%
361	16.366	16.345	16.383	VV	5975	70559	1.10%	0.024%
362	16.397	16.383	16.412	VV	6354	61885	0.97%	0.021%
363	16.445	16.412	16.499	VV	16351	338202	5.29%	0.116%
364	16.508	16.499	16.525	VV	2903	21876	0.34%	0.007%
365	16.539	16.525	16.561	PV	1654	16083	0.25%	0.006%
366	16.578	16.561	16.582	PV	2845	19396	0.30%	0.007%
367	16.598	16.582	16.609	VV	3139	34762	0.54%	0.012%
368	16.658	16.609	16.693	VV	12807	337056	5.27%	0.115%
369	16.714	16.693	16.728	VV	8504	123747	1.93%	0.042%
370	16.750	16.728	16.785	VV	12065	281586	4.40%	0.096%
371	16.818	16.785	16.845	VV	25631	536338	8.38%	0.184%
372	16.859	16.845	16.882	VV	15635	234796	3.67%	0.080%
373	16.935	16.882	16.954	VV	151967	2297860	35.91%	0.787%
374	16.961	16.954	16.994	VV	49866	597316	9.33%	0.205%
375	17.014	16.994	17.020	VV	6665	87525	1.37%	0.030%
376	17.040	17.020	17.045	VV	11390	133215	2.08%	0.046%
377	17.065	17.045	17.092	VV	28358	467682	7.31%	0.160%
378	17.104	17.092	17.145	VV	12583	280547	4.38%	0.096%
379	17.162	17.145	17.174	VV	9296	148037	2.31%	0.051%
380	17.180	17.174	17.187	VV	8644	60744	0.95%	0.021%
381	17.200	17.187	17.208	VV	10088	109453	1.71%	0.038%
382	17.260	17.208	17.286	VV	74324	1355532	21.18%	0.464%
383	17.318	17.286	17.347	VV	95012	1322447	20.67%	0.453%
384	17.356	17.347	17.367	VV	7481	73598	1.15%	0.025%
385	17.419	17.367	17.437	VV	36470	866476	13.54%	0.297%
386	17.444	17.437	17.472	VV	21390	395569	6.18%	0.136%
387	17.477	17.472	17.508	VV	16345	281113	4.39%	0.096%
388	17.527	17.508	17.536	VV	14233	206782	3.23%	0.071%
389	17.548	17.536	17.555	VV	16883	166687	2.60%	0.057%
390	17.563	17.555	17.573	VV	18964	180335	2.82%	0.062%
391	17.588	17.573	17.596	VV	16790	204243	3.19%	0.070%
392	17.603	17.596	17.609	VV	14167	101123	1.58%	0.035%
393	17.619	17.609	17.632	VV	16415	202118	3.16%	0.069%
394	17.647	17.632	17.652	VV	17393	188721	2.95%	0.065%
395	17.667	17.652	17.672	VV	22698	237267	3.71%	0.081%
396	17.682	17.672	17.704	VV	27912	428510	6.70%	0.147%
397	17.710	17.704	17.719	VV	20002	170557	2.67%	0.058%
398	17.727	17.719	17.735	VV	22948	212931	3.33%	0.073%
399	17.767	17.735	17.794	VV	46020	1100354	17.20%	0.377%
400	17.817	17.794	17.827	VV	27829	446239	6.97%	0.153%
401	17.857	17.827	17.880	VV	41637	958311	14.98%	0.328%
402	17.907	17.880	17.918	VV	26496	483015	7.55%	0.166%
403	17.928	17.918	17.942	VV	22920	299793	4.69%	0.103%
404	17.948	17.942	17.954	VV	22240	144675	2.26%	0.050%

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405	17.984	17.954	17.990	VV	33953	562890	8.80%	0.193%
406	17.996	17.990	18.009	VV	31912	303855	4.75%	0.104%
407	18.031	18.009	18.039	VV	30566	453024	7.08%	0.155%
408	18.045	18.039	18.054	VV	26226	230357	3.60%	0.079%
409	18.064	18.054	18.070	VV	27794	253271	3.96%	0.087%
410	18.082	18.070	18.092	VV	31226	357868	5.59%	0.123%
411	18.098	18.092	18.103	VV	26032	159828	2.50%	0.055%
412	18.113	18.103	18.118	VV	29631	251305	3.93%	0.086%
413	18.128	18.118	18.134	VV	31820	270889	4.23%	0.093%
414	18.136	18.134	18.147	VV	31584	233162	3.64%	0.080%
415	18.159	18.147	18.164	VV	34102	314613	4.92%	0.108%
416	18.170	18.164	18.179	VV	32893	270647	4.23%	0.093%
417	18.204	18.179	18.219	VV	41584	845845	13.22%	0.290%
418	18.233	18.219	18.244	VV	39166	540094	8.44%	0.185%
419	18.260	18.244	18.270	VV	42490	575157	8.99%	0.197%
420	18.295	18.270	18.302	VV	55212	858950	13.42%	0.294%
421	18.306	18.302	18.332	VV	55850	765199	11.96%	0.262%
422	18.342	18.332	18.352	VV	38876	417894	6.53%	0.143%
423	18.356	18.352	18.364	VV	36402	256848	4.01%	0.088%
424	18.380	18.364	18.403	VV	38762	816790	12.76%	0.280%
425	18.410	18.403	18.416	VV	34315	242068	3.78%	0.083%
426	18.425	18.416	18.430	VV	42209	308624	4.82%	0.106%
427	18.439	18.430	18.445	VV	41367	351269	5.49%	0.120%
428	18.461	18.445	18.483	VV	60585	1139591	17.81%	0.390%
429	18.490	18.483	18.506	VV	46969	548052	8.56%	0.188%
430	18.519	18.506	18.532	VV	40618	609994	9.53%	0.209%
431	18.542	18.532	18.548	VV	41182	382438	5.98%	0.131%
432	18.550	18.548	18.560	VV	43082	272783	4.26%	0.093%
433	18.576	18.560	18.584	VV	43518	560160	8.75%	0.192%
434	18.604	18.584	18.613	VV	55539	835087	13.05%	0.286%
435	18.617	18.613	18.626	VV	58300	414320	6.47%	0.142%
436	18.655	18.626	18.681	VV	99612	2313062	36.15%	0.793%
437	18.699	18.681	18.720	VV	98166	1888110	29.51%	0.647%
438	18.726	18.720	18.759	VV	70568	1283615	20.06%	0.440%
439	18.772	18.759	18.779	VV	52182	556616	8.70%	0.191%
440	18.784	18.779	18.796	VV	49813	478255	7.47%	0.164%
441	18.801	18.796	18.805	VV	44271	231239	3.61%	0.079%
442	18.830	18.805	18.850	VV	76696	1667006	26.05%	0.571%
443	18.866	18.850	18.918	VV	68177	2086958	32.61%	0.715%
444	18.961	18.918	18.979	VV	101055	2359744	36.88%	0.809%
445	19.003	18.979	19.015	VV	58760	1191998	18.63%	0.408%
446	19.046	19.015	19.060	VV	66852	1528817	23.89%	0.524%
447	19.086	19.060	19.112	VV	81700	2078743	32.49%	0.712%
448	19.134	19.112	19.140	VV	83222	1237076	19.33%	0.424%
449	19.142	19.140	19.164	VV	77662	1019697	15.94%	0.349%
450	19.186	19.164	19.202	VV	72554	1472815	23.02%	0.505%
451	19.222	19.202	19.235	VV	71660	1322179	20.66%	0.453%
452	19.259	19.235	19.280	VV	82705	1941979	30.35%	0.665%
453	19.287	19.280	19.294	VV	79061	645330	10.09%	0.221%
454	19.305	19.294	19.329	VV	83294	1561722	24.41%	0.535%
455	19.344	19.329	19.368	VV	76785	1620610	25.33%	0.555%
456	19.398	19.368	19.411	VV	86093	1928100	30.13%	0.661%

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457	19.416	19.411	19.426	VV	77816	676777	10.58%	0.232%
458	19.502	19.426	19.527	VV	132338	5816002	90.89%	1.993%
459	19.536	19.527	19.542	VV	112941	925244	14.46%	0.317%
460	19.550	19.542	19.556	VV	103445	787821	12.31%	0.270%
461	19.560	19.556	19.569	VV	92309	715856	11.19%	0.245%
462	19.572	19.569	19.588	VV	90779	985348	15.40%	0.338%
463	19.605	19.588	19.614	VV	88024	1280063	20.00%	0.439%
464	19.628	19.614	19.632	VV	95316	936667	14.64%	0.321%
465	19.638	19.632	19.645	VV	94434	709689	11.09%	0.243%
466	19.652	19.645	19.659	VV	94673	756591	11.82%	0.259%
467	19.663	19.659	19.673	VV	94108	743393	11.62%	0.255%
468	19.683	19.673	19.689	VV	90164	793144	12.40%	0.272%
469	19.696	19.689	19.704	VV	87781	765598	11.96%	0.262%
470	19.710	19.704	19.717	VV	86126	645716	10.09%	0.221%
471	19.727	19.717	19.732	VV	91231	783172	12.24%	0.268%
472	19.737	19.732	19.752	VV	88930	1014512	15.85%	0.348%
473	19.760	19.752	19.771	VV	88463	925853	14.47%	0.317%
474	19.783	19.771	19.793	VV	95272	1231001	19.24%	0.422%
475	19.799	19.793	19.804	VV	94826	592498	9.26%	0.203%
476	19.809	19.804	19.814	VV	92422	506701	7.92%	0.174%
477	19.830	19.814	19.838	VV	101200	1323763	20.69%	0.454%
478	19.859	19.838	19.865	VV	100189	1521791	23.78%	0.521%
479	19.871	19.865	19.883	VV	105873	1075844	16.81%	0.369%
480	19.892	19.883	19.907	VV	100297	1370957	21.43%	0.470%
481	19.931	19.907	19.941	VV	109849	2036612	31.83%	0.698%
482	19.946	19.941	19.954	VV	112025	869838	13.59%	0.298%
483	19.960	19.954	19.989	VV	119528	2349451	36.72%	0.805%
484	19.994	19.989	20.023	VV	107981	2032441	31.76%	0.696%
485	20.051	20.023	20.066	VV	124106	2856253	44.64%	0.979%
486	20.071	20.066	20.086	VV	113151	1239804	19.38%	0.425%
487	20.118	20.086	20.122	VV	149217	2630085	41.10%	0.901%
488	20.128	20.122	20.137	VV	149594	1264436	19.76%	0.433%
489	20.146	20.137	20.161	VV	147469	1993035	31.15%	0.683%
490	20.166	20.161	20.171	VV	143527	781197	12.21%	0.268%
491	20.201	20.171	20.216	VV	154696	3937567	61.54%	1.349%
492	20.247	20.216	20.260	VV	160089	3862895	60.37%	1.324%
493	20.263	20.260	20.269	VV	153119	840271	13.13%	0.288%
494	20.286	20.269	20.296	VV	170292	2437461	38.09%	0.835%
495	20.301	20.296	20.312	VV	168156	1556039	24.32%	0.533%
496	20.326	20.312	20.333	VV	157580	1921660	30.03%	0.658%
497	20.338	20.333	20.343	VV	143931	858448	13.42%	0.294%
498	20.351	20.343	20.364	VV	156577	1796197	28.07%	0.615%
499	20.372	20.364	20.381	VV	145917	1422156	22.23%	0.487%
500	20.384	20.381	20.388	VV	142620	608210	9.51%	0.208%
501	20.391	20.388	20.395	VV	135716	575571	8.99%	0.197%
502	20.401	20.395	20.404	VV	141394	695952	10.88%	0.238%
503	20.410	20.404	20.425	VV	146376	1773362	27.71%	0.608%
504	20.436	20.425	20.453	VV	153277	2429278	37.96%	0.832%
505	20.471	20.453	20.475	VV	159044	2014972	31.49%	0.690%
506	20.500	20.475	20.520	VV	188160	4719872	73.76%	1.617%
507	20.542	20.520	20.546	VV	175265	2563339	40.06%	0.878%
508	20.579	20.546	20.596	VV	183625	5265929	82.30%	1.804%
509	20.600	20.596	20.613	VV	174310	1690823	26.42%	0.579%

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510	20.619	20.613	20.633	VV	176678	2041833	31.91%	0.700%
511	20.649	20.633	20.659	VV	178444	2665539	41.66%	0.913%
512	20.664	20.659	20.668	VV	180380	985489	15.40%	0.338%
513	20.678	20.668	20.703	VV	180070	3419985	53.45%	1.172%
514	20.707	20.703	20.711	VV	155127	790305	12.35%	0.271%
515	20.717	20.711	20.742	VV	162155	2834943	44.30%	0.971%
516	20.762	20.742	20.774	VV	158879	2961171	46.28%	1.015%
517	20.791	20.774	20.796	VV	159869	2000171	31.26%	0.685%
518	20.800	20.796	20.812	VV	152369	1408506	22.01%	0.483%
519	20.828	20.812	20.832	VV	155600	1739545	27.19%	0.596%
520	20.844	20.832	20.850	VV	170288	1734336	27.10%	0.594%
521	20.866	20.850	20.879	VV	177310	3028117	47.32%	1.038%
522	20.893	20.879	20.936	VV	168101	5311591	83.01%	1.820%
523	20.940	20.936	20.956	VV	154874	1761739	27.53%	0.604%
524	20.960	20.956	20.974	VV	141489	1499698	23.44%	0.514%
525	20.983	20.974	20.987	VV	147772	1141242	17.84%	0.391%
526	20.995	20.987	21.023	VV	146064	2914083	45.54%	0.999%
527	21.043	21.023	21.067	VV	144839	3466699	54.18%	1.188%
528	21.074	21.067	21.084	VV	123425	1171622	18.31%	0.401%
529	21.097	21.084	21.102	VV	127079	1315490	20.56%	0.451%
530	21.136	21.102	21.142	VV	135271	3116451	48.70%	1.068%
531	21.148	21.142	21.173	VV	136962	2459595	38.44%	0.843%
532	21.180	21.173	21.184	VV	142108	882505	13.79%	0.302%
533	21.189	21.184	21.202	VV	145914	1542441	24.11%	0.529%
534	21.210	21.202	21.216	VV	142267	1051619	16.43%	0.360%
535	21.228	21.216	21.243	VV	139884	2220236	34.70%	0.761%
536	21.260	21.243	21.324	VV	147394	6398800	100.00%	2.193%
537	21.333	21.324	21.363	VV	122542	2592631	40.52%	0.888%
538	21.370	21.363	21.395	VV	111207	1955255	30.56%	0.670%
539	21.402	21.395	21.416	VV	105873	1183374	18.49%	0.405%
540	21.442	21.416	21.449	VV	107357	1945493	30.40%	0.667%
541	21.457	21.449	21.468	VV	114576	1191783	18.63%	0.408%
542	21.474	21.468	21.493	VV	109718	1588816	24.83%	0.544%
543	21.498	21.493	21.503	VV	107353	583502	9.12%	0.200%
544	21.507	21.503	21.521	VV	103360	1028618	16.08%	0.352%
545	21.532	21.521	21.542	VV	98902	1182439	18.48%	0.405%
546	21.548	21.542	21.556	VV	102025	803363	12.55%	0.275%
547	21.559	21.556	21.563	VV	97662	407754	6.37%	0.140%
548	21.571	21.563	21.585	VV	102492	1328041	20.75%	0.455%
549	21.596	21.585	21.618	VV	98368	1759925	27.50%	0.603%
550	21.627	21.618	21.635	VV	96610	912297	14.26%	0.313%
551	21.644	21.635	21.653	VV	92578	977769	15.28%	0.335%
552	21.659	21.653	21.663	VV	99616	525887	8.22%	0.180%
553	21.668	21.663	21.673	VV	100770	575401	8.99%	0.197%
554	21.681	21.673	21.691	VV	105090	1015552	15.87%	0.348%
555	21.705	21.691	21.712	VV	101237	1205708	18.84%	0.413%
556	21.718	21.712	21.727	VV	89658	757023	11.83%	0.259%
557	21.746	21.727	21.791	VV	94644	3213900	50.23%	1.101%
558	21.795	21.791	21.804	VV	74990	557344	8.71%	0.191%
559	21.808	21.804	21.819	VV	77666	631485	9.87%	0.216%
560	21.825	21.819	21.856	VV	68476	1385526	21.65%	0.475%
561	21.863	21.856	21.894	VV	64025	1314807	20.55%	0.451%

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562	21.913	21.894	21.918	VV	60469	785694	12.28%	0.269%	
563	21.921	21.918	21.924	VV	60264	226457	3.54%	0.078%	
564	21.929	21.924	21.948	VV	60621	758896	11.86%	0.260%	
565	21.952	21.948	21.969	VV	54730	607039	9.49%	0.208%	
566	21.987	21.969	22.028	VV	53083	1689251	26.40%	0.579%	
567	22.061	22.028	22.081	VV	61631	1721961	26.91%	0.590%	
568	22.087	22.081	22.094	VV	58415	412403	6.45%	0.141%	
569	22.110	22.094	22.115	VV	55875	635175	9.93%	0.218%	
570	22.119	22.115	22.129	VV	51410	384276	6.01%	0.132%	
571	22.137	22.129	22.145	VV	43687	416400	6.51%	0.143%	
572	22.151	22.145	22.166	VV	43903	491970	7.69%	0.169%	
573	22.202	22.166	22.207	VV	58343	1174404	18.35%	0.402%	
574	22.212	22.207	22.241	VV	59870	970915	15.17%	0.333%	
575	22.246	22.241	22.287	VV	42045	949280	14.84%	0.325%	
576	22.296	22.287	22.305	VV	29245	270538	4.23%	0.093%	
577	22.309	22.305	22.316	VV	25126	159769	2.50%	0.055%	
578	22.324	22.316	22.353	VV	24750	418769	6.54%	0.143%	
579	22.362	22.353	22.375	VV	9907	101470	1.59%	0.035%	
580	22.381	22.375	22.387	PV	8426	29665	0.46%	0.010%	

Sum of corrected areas: 291844886

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