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

LAB CHRONICLE

OrderID:	Q1956	**OrderDate:**	5/2/2025 3:14:35 PM
Client:	CDM Smith	**Project:**	Bergen Point Fueling System
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1956-01	**SB1-3-4**	**SOIL**			**05/01/25**			**05/02/25**
			Gasoline Range Organics	8015D			05/06/25	
Q1956-02	**SB2-4-5**	**SOIL**			**05/02/25**			**05/02/25**
			Gasoline Range Organics	8015D			05/06/25	
Q1956-06	**SB91-3-4**	**SOIL**			**05/01/25**			**05/02/25**
			Gasoline Range Organics	8015D			05/06/25	
Q1956-07	**FB-05022025**	**Water**			**05/02/25**			**05/02/25**
			Gasoline Range Organics	8015D			05/06/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/01/25
Project:	Bergen Point Fueling System	Date Received:	05/02/25
Client Sample ID:	SB1-3-4	SDG No.:	Q1956
Lab Sample ID:	Q1956-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	89 Decanted:
Sample Wt/Vol:	6.52 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031682.D	1	05/06/25 12:06	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	18.0	J	7.00	39.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.9		50 - 150	85%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/02/25
Project:	Bergen Point Fueling System	Date Received:	05/02/25
Client Sample ID:	SB2-4-5	SDG No.:	Q1956
Lab Sample ID:	Q1956-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	93.5 Decanted:
Sample Wt/Vol:	5.56 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031683.D	1	05/06/25 12:48	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	43.0	U	8.00	43.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.3		50 - 150	87%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/01/25
Project:	Bergen Point Fueling System	Date Received:	05/02/25
Client Sample ID:	SB91-3-4	SDG No.:	Q1956
Lab Sample ID:	Q1956-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.2 Decanted:
Sample Wt/Vol:	6.22 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031686.D	1	05/06/25 15:25	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	13.0	J	7.00	40.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.4		50 - 150	72%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/02/25
Project:	Bergen Point Fueling System	Date Received:	05/02/25
Client Sample ID:	FB-05022025	SDG No.:	Q1956
Lab Sample ID:	Q1956-07	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031691.D	1	05/06/25 18:10	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	45.0	U	6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.4		50 - 150	102%	SPK: 20

Comments:

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QC SUMMARY

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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956 SDG No.: Q1956

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0506S1	81				0
BSF0506S1	88				0
SB1-3-4	85				0
SB2-4-5	87				0
SB2-4-5MS	76				0
SB2-4-5MSD	87				0
SB91-3-4	72				0
VBF0506W1	109				0
BSF0506W1	84				0
FB-05022025	102				0
BSF0506W2	101				0

	QC LIMITS
AAA-TFT	For Water : 50-150 For Soil : 50-150

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

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SOIL GASOLINE RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q1956 **SAS No :** Q1956 **SDG No:** Q1956

Client SampleID : SB2-4-5MS **Datafile:** FB031684.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
GRO	160	0	110	69%		50-150

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SOIL GASOLINE RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q1956 **SAS No :** Q1956 **SDG No:** Q1956

Client SampleID : SB2-4-5MSD **Datafile:** FB031685.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
GRO	153	0	109	71%		50-150

MS/MSD % Recovery RPD : 3.4

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q1956 **SAS No :** Q1956 **SDG No:** Q1956

Matrix Spike - EPA Sample No : BSF0506S1 **Datafile:** FB031681.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	180	100	50-150

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WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLIC

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q1956 **SAS No :** Q1956 **SDG No:** Q1956

Matrix Spike - EPA Sample No : BSF0506W1 **Datafile:** FB031690.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
GRO	180	0	165	92	50-150

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WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLIC

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q1956 **SAS No :** Q1956 **SDG No:** Q1956

Matrix Spike - EPA Sample No : BSF0506W2 **Datafile:** FB031692.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
GRO	180	0	166	92	50-150

LCS/LCSD % Recovery RPD : 0.5

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METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0506S1

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956 SDG NO.: Q1956

Lab File ID: FB031679.D Lab Sample ID: VBF0506S1

Date Analyzed: 05/06/25 Time Analyzed: 10:29

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0506S1	BSF0506S1	FB031681.D	05/06/25
SB1-3-4	Q1956-01	FB031682.D	05/06/25
SB2-4-5	Q1956-02	FB031683.D	05/06/25
SB2-4-5MS	Q1956-03MS	FB031684.D	05/06/25
SB2-4-5MSD	Q1956-04MSD	FB031685.D	05/06/25
SB91-3-4	Q1956-06	FB031686.D	05/06/25

COMMENTS:

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METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0506W1

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956 SDG NO.: Q1956

Lab File ID: FB031689.D Lab Sample ID: VBF0506W1

Date Analyzed: 05/06/25 Time Analyzed: 17:16

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: FB

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0506W1	BSF0506W1	FB031690.D	05/06/25
FB-05022025	Q1956-07	FB031691.D	05/06/25
BSF0506W2	BSF0506W2	FB031692.D	05/06/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	Bergen Point Fueling System	Date Received:	
Client Sample ID:	VBF0506S1	SDG No.:	Q1956
Lab Sample ID:	VBF0506S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031679.D	1	05/06/25 10:29	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	45.0	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.1		50 - 150	81%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	Bergen Point Fueling System	Date Received:	
Client Sample ID:	VBF0506W1	SDG No.:	Q1956
Lab Sample ID:	VBF0506W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031689.D	1	05/06/25 17:16	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	45.0	U	6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	21.9		50 - 150	109%	SPK: 20

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	Bergen Point Fueling System	Date Received:	
Client Sample ID:	BSF0506S1	SDG No.:	Q1956
Lab Sample ID:	BSF0506S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031681.D	1	05/06/25 11:25	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	180		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.6		50 - 150	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	Bergen Point Fueling System	Date Received:	
Client Sample ID:	BSF0506W1	SDG No.:	Q1956
Lab Sample ID:	BSF0506W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031690.D	1	05/06/25 17:43	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	165		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.9		50 - 150	84%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	Bergen Point Fueling System	Date Received:	
Client Sample ID:	BSF0506W2	SDG No.:	Q1956
Lab Sample ID:	BSF0506W2	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031692.D	1	05/06/25 18:38	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	166		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.1		50 - 150	101%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/02/25
Project:	Bergen Point Fueling System	Date Received:	05/02/25
Client Sample ID:	SB2-4-5MS	SDG No.:	Q1956
Lab Sample ID:	Q1956-03MS	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	93.5 Decanted:
Sample Wt/Vol:	6.02 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031684.D	1	05/06/25 14:30	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	110		7.00	40.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.1		50 - 150	76%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/02/25
Project:	Bergen Point Fueling System	Date Received:	05/02/25
Client Sample ID:	SB2-4-5MSD	SDG No.:	Q1956
Lab Sample ID:	Q1956-04MSD	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	93.5 Decanted:
Sample Wt/Vol:	6.3 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031685.D	1	05/06/25 14:58	FB050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	109		7.00	38.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.3		50 - 150	87%	SPK: 20

Comments:

U = Not Detected
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CALIBRATION SUMMARY

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

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CAMP02

ProjectID: Bergen Point Fueling System

Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956 SDG No.: Q1956

Calibration Sequence : FB042325		Test : Gasoline Range Organics	
Concentration (PPB)	**Area Count**	**Reference Factor**	**File ID**
45	1404536	31212	FB031638.D
90	2828773	31431	FB031639.D
180	5982574	33237	FB031640.D
450	16361923	36360	FB031641.D
900	31441842	34935	FB031642.D

AVG RF : 33435 **% RSD : 6.655** **AVG RT : 8.7924**

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: Bergen Point Fueling System

Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956 SDG No.: Q1956

DataFile: FB031678.D Analyst Name: YP/AJ Analyst Date: 05-06-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5796971	32205	33435	3.679

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: Bergen Point Fueling System

Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956 SDG No.: Q1956

DataFile: FB031688.D Analyst Name: YP/AJ Analyst Date: 05-06-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6145867	34144	33435	2.121

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: Bergen Point Fueling System

Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956 SDG No.: Q1956

DataFile: FB031693.D Analyst Name: YP/AJ Analyst Date: 05-06-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5937298	32985	33435	1.346

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q1956

Project: Bergen Point Fueling System **Instrument ID:** FID_B

GC Column: RTX-502.2 **ID:** 0.53 **(mm)**

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION **8.7924**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	6 May 2025 9:47	FB031678.D	8.793	
VBF0506S1	VBF0506S1	6 May 2025 10:29	FB031679.D	8.793	
BSF0506S1	BSF0506S1	6 May 2025 11:25	FB031681.D	8.795	
SB1-3-4	Q1956-01	6 May 2025 12:06	FB031682.D	8.619	
SB2-4-5	Q1956-02	6 May 2025 12:48	FB031683.D	8.795	
SB2-4-5MS	Q1956-03MS	6 May 2025 14:30	FB031684.D	8.793	
SB2-4-5MSD	Q1956-04MSD	6 May 2025 14:58	FB031685.D	8.794	
SB91-3-4	Q1956-06	6 May 2025 15:25	FB031686.D	8.660	
20 PPB GRO STD	20 PPB GRO STD	6 May 2025 16:21	FB031688.D	8.796	
VBF0506W1	VBF0506W1	6 May 2025 17:16	FB031689.D	8.796	
BSF0506W1	BSF0506W1	6 May 2025 17:43	FB031690.D	8.795	
FB-05022025	Q1956-07	6 May 2025 18:10	FB031691.D	8.796	
BSF0506W2	BSF0506W2	6 May 2025 18:38	FB031692.D	8.795	
20 PPB GRO STD	20 PPB GRO STD	6 May 2025 19:05	FB031693.D	8.794	

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

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	8.6924	8.8924