THE L&R GROUP
680 South Progress Avenue, Suite 2A
Meridian, Idaho 83642
208-813-7700
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Analytical Report

Project Location/Site:
Hydrocarbon Testing

Prepared For:
Jet Filter Systems, LLC
107 NW 1st St.
Casey, IL 62420

L&R Project #: 02170
L&R Project Manager: Richard Vincent
Report Issue Date: 6/19/2025

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Section 1 Case Narrative

Jet Filter Systems, LLC
107 NW 1st St.
Casey, IL 62420

This report summarizes our sample results and quality control results. As a customer, you may use this report in any way, however, L&R does not authorize other parties to use this report without your express, written consent. L&R must be notified in writing prior to reproducing this report.

Results relate only to the items tested or calibrated and are reported as rounded values. Where applicable, sampling conducted by L&R is performed per guidance provided in laboratory standard operating procedures. Where sampling is conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria, except were addressed in this case narrative, a non-conformance form, or properly qualified within the sample results. By my digital signature below, I affirm, to the best of my knowledge, all problems and anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

L&R appreciates the opportunity to work with you on this project and looks forward to a continued relationship as your environmental and laboratory consultant. Please do not hesitate to contact our offices at (208) 813-7700 with any questions, comments, or concerns.

Sincerely, The L&R Group, LLC

Conducted by: Richard Vincent
Title: Technical Service Manager / Chemist

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Section 2 Sample Summary

Client ID Name	Laboratory ID Number	Sample Matrix	Sample Date	Sample Time	Laboratory Receipt Date
Contaminated Sample	**02170-01**	**Aqueous**	**6/9/2025**	**9:00**	**6/17/2025**
Analytical Testing Method		**Batch**	**Preparation Date**	**Analysis Date**	**Due Date**
TPH by Method 8015		GC00541	6/18/2025	6/18/2025	6/24/2025

Client ID Name	Laboratory ID Number	Sample Matrix	Sample Date	Sample Time	Laboratory Receipt Date
Pass Through #1	**02170-02**	**Aqueous**	**6/9/2025**	**9:00**	**6/17/2025**
Analytical Testing Method		**Batch**	**Preparation Date**	**Analysis Date**	**Due Date**
TPH by Method 8015		GC00541	6/18/2025	6/18/2025	6/24/2025

Client ID Name	Laboratory ID Number	Sample Matrix	Sample Date	Sample Time	Laboratory Receipt Date
Pass Through #2	**02170-03**	**Aqueous**	**6/9/2025**	**9:00**	**6/17/2025**
Analytical Testing Method		**Batch**	**Preparation Date**	**Analysis Date**	**Due Date**
TPH by Method 8015		GC00541	6/18/2025	6/18/2025	6/24/2025

Client ID Name	Laboratory ID Number	Sample Matrix	Sample Date	Sample Time	Laboratory Receipt Date
Pass Through #3	**02170-04**	**Aqueous**	**6/9/2025**	**9:00**	**6/17/2025**
Analytical Testing Method		**Batch**	**Preparation Date**	**Analysis Date**	**Due Date**
TPH by Method 8015		GC00541	6/18/2025	6/18/2025	6/24/2025

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Section 3 Sample Results

Sampled Date	Sampled Time	Matrix	Client Sample Name and Number	Laboratory Identification Number
6/9/2025	9:00	Aqueous	Contaminated Sample	02170-01

TPH by Method 8015

Extraction Method EPA 3511

Analyte	Result (mg/L)	RDL (mg/L)	Dilution	Analysis Date	Batch	Qualifier
C8-C40 Total TPH	7320.509	342.900	100	6/18/25	GC00541	
C8-C18 Jet Fuel Range	2272.719	114.286	100	6/18/25	GC00541	
C10-C28 Diesel Fuel Range	4529.545	114.286	100	6/18/25	GC00541	
C20-C40 Motor Oil Range	5523.862	114.286	100	6/18/25	GC00541	
(s) n-Pentacosane	S2					S2

Qualifiers:

Sampled Date	Sampled Time	Matrix	Client Sample Name and Number	Laboratory Identification Number
6/9/2025	9:00	Aqueous	Pass Through #1	02170-02

TPH by Method 8015

Extraction Method EPA 3511

Analyte	Result (mg/L)	RDL (mg/L)	Dilution	Analysis Date	Batch	Qualifier
C8-C40 Total TPH	<RDL	3.429	1	6/18/25	GC00541	
C8-C18 Jet Fuel Range	<RDL	1.143	1	6/18/25	GC00541	
C10-C28 Diesel Fuel Range	<RDL	1.143	1	6/18/25	GC00541	
C20-C40 Motor Oil Range	<RDL	1.143	1	6/18/25	GC00541	
(s) n-Pentacosane	3.782	132.7%				S4

Qualifiers:

Sampled Date	Sampled Time	Matrix	Client Sample Name and Number	Laboratory Identification Number
6/9/2025	9:00	Aqueous	Pass Through #2	02170-03

TPH by Method 8015

Extraction Method EPA 3511

Analyte	Result (mg/L)	RDL (mg/L)	Dilution	Analysis Date	Batch	Qualifier
C8-C40 Total TPH	<RDL	3.429	1	6/18/25	GC00541	
C8-C18 Jet Fuel Range	<RDL	1.143	1	6/18/25	GC00541	
C10-C28 Diesel Fuel Range	<RDL	1.143	1	6/18/25	GC00541	
C20-C40 Motor Oil Range	2.008	1.143	1	6/18/25	GC00541	
(s) n-Pentacosane	3.858	137.0%				S4

Qualifiers:

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Sampled Date	Sampled Time	Matrix	Client Sample Name and Number	Laboratory Identification Number
6/9/2025	**9:00**	**Aqueous**	**Pass Through #3**	**02170-04**

TPH by Method 8015

Extraction Method **EPA 3511**

Analyte	Result (mg/L)	RDL (mg/L)	Dilution	Analysis Date	Batch	Qualifier
C8-C40 Total TPH	<RDL	3.429	1	6/18/25	GC00541	
C8-C18 Jet Fuel Range	<RDL	1.143	1	6/18/25	GC00541	
C10-C28 Diesel Fuel Range	<RDL	1.143	1	6/18/25	GC00541	
C20-C40 Motor Oil Range	1.889	1.143	1	6/18/25	GC00541	
(s) n-Pentacosane	3.775	132.4%				S4

Qualifiers:

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Section 4 Quality Control Summary

Batch Identification Number	Extraction Method	Analytical Method	Sample Matrix	Preparation Date
GC00541	EPA 3511	TPH by Method 8015	Aqueous	6/18/2025

Method Blank (MB)

Analysis Date: 6/18/2025

Analyte(s)	MB Result (mg/L)	MB MDL (mg/L)	MB RDL (mg/L)	Spike Amount (mg/L)	Surrogate Result (mg/L)	Surrogate Recovery %	Surrogate Recovery Limits %	Qualifiers
C8-C40 Total TPH	<RDL	0.537	3.429					
C8-C18 Jet Fuel Range	<RDL	0.217	1.143					
C10-C28 Diesel Fuel Range	<RDL	0.156	1.143					
C20-C40 Motor Oil Range	<RDL	0.264	1.143					
(s) n-Pentacosane				2.857	3.488	122.07%	70-130%	

Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Analysis Date: 6/18/2025

Analyte(s)	Spike Amount (mg/L)	LCS Result (mg/L)	LCS Recovery %	LCSD Result (mg/L)	LCSD Recovery %	Recovery Limits %	RPD %	RPD Limits %	Qualifiers
C10-C28 Diesel Fuel Range	28.571	29.143	102%	29.673	104%	70-130%	2%	20%	
(s) n-Pentacosane	2.857	3.483	122%	3.463	121%	70-130%	1%	20%	

Original Sample (OS) Lab ID#: 02162-01

Original Sample (OS) and Original Sample Duplicate (OSD)

Analysis Date: 6/18/2025

Analyte(s)	OS Result (mg/L)	OSD Result (mg/L)	RDL (mg/L)	RPD %	RPD Limits %	Qualifiers
C8-C40 Total TPH	15.175	14.783	3.429	2.6%	20%	
C8-C18 Jet Fuel Range	4.866	4.945	1.143	1.6%	20%	
C10-C28 Diesel Fuel Range	11.633	11.504	1.143	1.1%	20%	
C20-C40 Motor Oil Range	10.695	10.117	1.143	5.6%	20%	
(s) n-Pentacosane	116.1%	119.4%				

Qualifiers:

Section 5 Glossary

Terms/Acronym	Definition
(dry)	Results are reported based on the dry weight of the sample. This will only be present on a dry report basis for soils.
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
(Surr.)	Surrogate (Surrogate Standard) – Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of a particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains and interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in the field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample (OS) and Original Sample Duplicate (OSD)	The non-spiked sample in the prep batch was used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in the column may state "ND" (Not Detected) or "BDL" (Below Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Quality Control Summary	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	**Definition**
S1	Surrogate recovery is outside control limits due to sample dilution.
S2	Surrogate recovery is outside control limits due to matrix interference and dilution.
S3	Surrogate is outside control limits due to matrix interference; recovery is confirmed by re-extraction of sample.
S4	Surrogate recovery is outside control high bias; no impact on analytical results.
HB (.* %)**	Closing CCV was outside control limits with a high bias; therefore, the sample has been reported with possible high bias. The CCV result is above laboratory control limits by **.*%.
J-Flag	Analyte recovery was above the method detection limit but below the reporting limit.
NH	Outside control limits due to a nonhomogeneous sample matrix (sample layers and/or inconsistent granular structure).

Section 6 Sample Chain of Custody

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Contact Information

Client Name/Address:
Jet Filter System, LLC
107 NW 1st St
Casey, IL 62420

Report To:
Name David Gentry
Email dgentry@jetfiltersystem.com
Phone # 1-800-475-2029

Project Information

Project Name/Address: Hydrocarbon Testing

Collected By (Print):
Client Project #:
Site/Facility ID #:
P.O.#

Turn Around Time

Rush analysis requires advanced notice.
☐ 24-hour Rush (1 Next Day)
■ Standard (5-7 Business Days)

Sample Receiving

■ Client Delivery
☐ L&R Technician Delivery

Sample Information

* Matrix: SS = Soil GW = Groundwater WW = Wastewater OT = Other ______

Requested Services

Sample ID	Comp/ Grab	Matrix*	Depth	Date	Time	# of Cntrs	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PH (EPA 9040C (Aqueous) or EPA 9045D (Solid))	Flashpoint/Ignitability (EPA 093 (Aqueous) or EPA 1010 (Solid))	TPH - EPA 8015M (Extraction by EPA 3511 (Aqueous) or EPA 3550 (Solid))	RCRA Metal EPA 6010B (EPA 3005 (Aqueous) or EPA 3050 (Solid) & (Mercury EPA 7473))	PCB EPA 8082 (Extraction by EPA 3511 (Aqueous) or EPA 3550 (Solid))				Laboratory ID	Remarks
Contaimented Sample	G	WW	NA	6/4/25	9:30	3					X						02170-01	
Pass Through # 1					9:35	3					X						-02	
Pass Through # 2					9:37	3					X						-03	
Pass Through # 3					9:30	3					X						-04	

Laboratory Only

COC Seal Present/Intact: Y / N
COC Signed/Accurate: Y / N
Bottles Intact: Y / N
Sufficient Volume: Y / N
VOA Zero Headspace: ~~Y / N~~
Preservation Correct: Y / N

Possible Hazard Identification: Please list any EPA Waste Codes for samples listed as EPA Hazardous Waste if the lab is to dispose of the sample.
☐ Non-Hazardous ☐ Skin Irritant ☐ Unknown
☐ Flammable ☐ Poison B

Sample Disposal: A fee may be assessed if samples are retained longer than one month.
☐ Return To Client ☐ Disposal By Lab
☐ Archive For ___ Months

Trip Blank Received: Y / N HCL / MeOH TBR

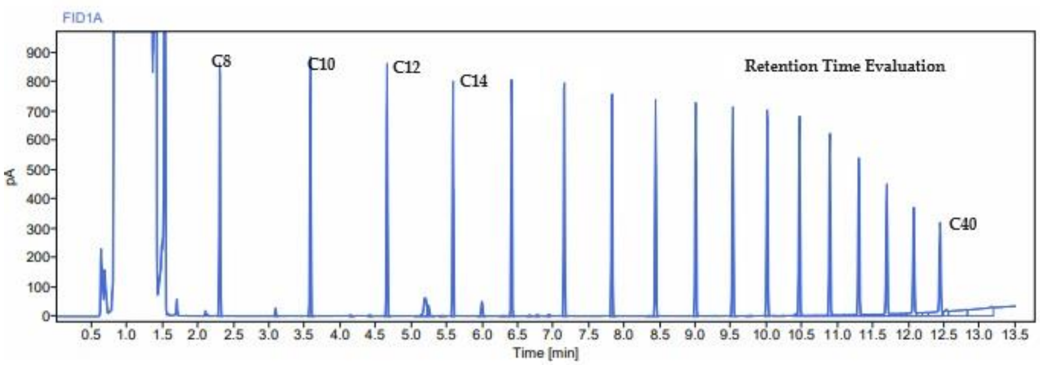
Special Instructions/QC Requirements and Comments:
Notes 1gallon water, 1ml gasoline, 1ml motor oil , 1ml diesel fuel

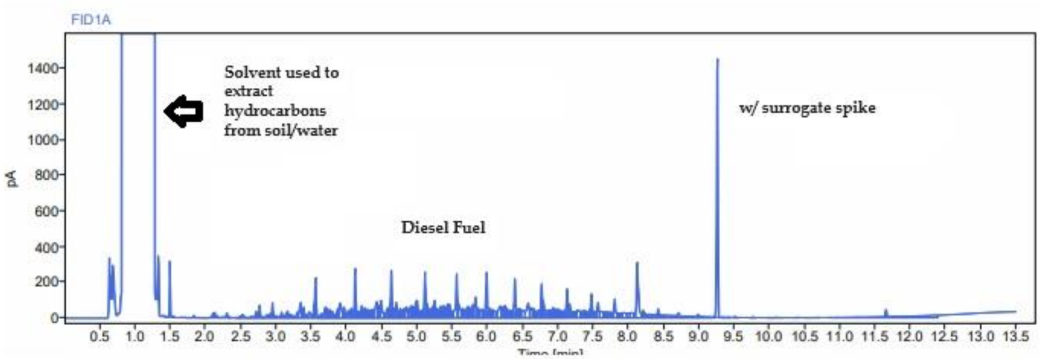
Temp(F):

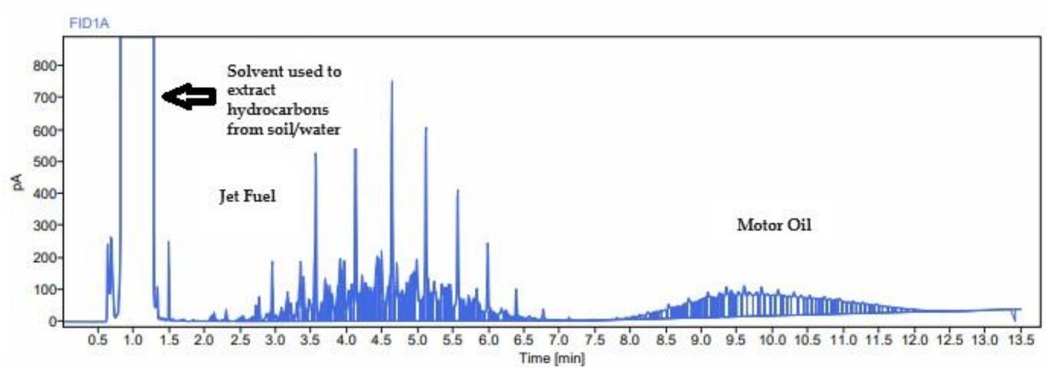
Chain of Custody

Relinquished By (Print/Signature):	Date:	Time:	Received By (Print/Signature):	Date:
David Gentry	6/6/2025	2:00		

Relinquished By (Print/Signature):	Date:	Time:	Received For Lab By (Print/Signature):	Date:
				6/16/25


FID1A
C8
C10
C12
C14
Retention Time Evaluation
C40
pA
Time [min]


FID1A
Solvent used to extract hydrocarbons from soil/water
w/ surrogate spike
Diesel Fuel
pA


FID1A
Solvent used to extract hydrocarbons from soil/water
Jet Fuel
Motor Oil
pA
Time [min]

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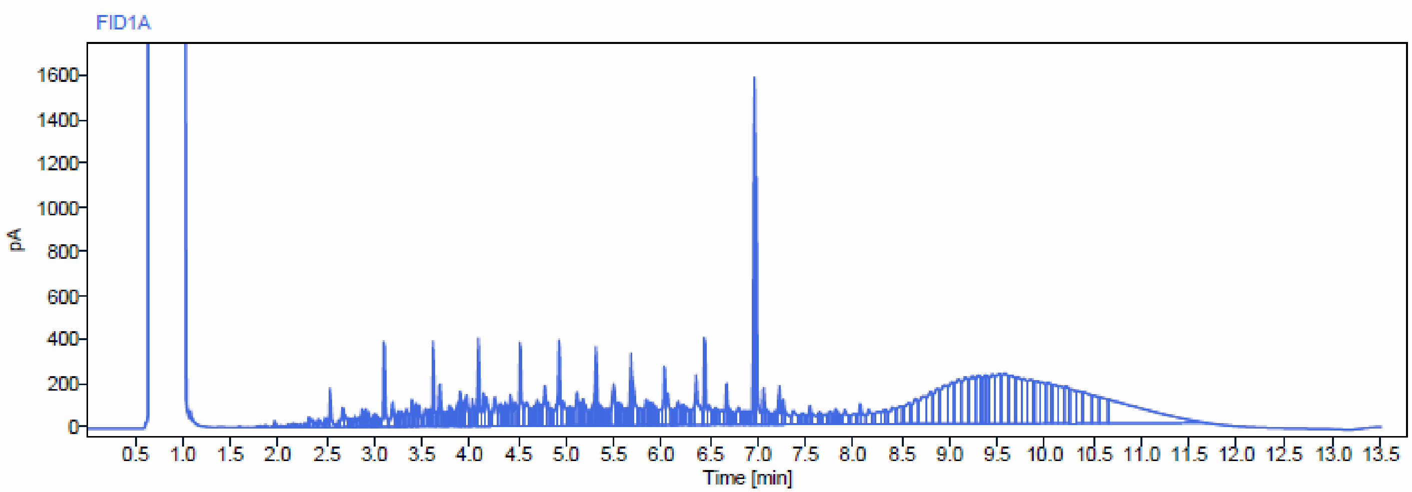
Single Injection Report

Sample name:	02170-01 @100X		
Data file:	07F-F.dx	**Operator:**	SYSTEM (SYSTEM)
Instrument:	GC-01	**Injection date:**	2025-06-18 10:09:41-06:00
Inj. volume:	2.000 µL	**Location:**	7
Acq. method:	8015M Instrument FRONT.amx	**Type:**	Sample
Processing method:	F_01302025_05272025.pmx	**Calib Level:**	
		Sample amount:	0.00
Manually modified:	Manual Integration		



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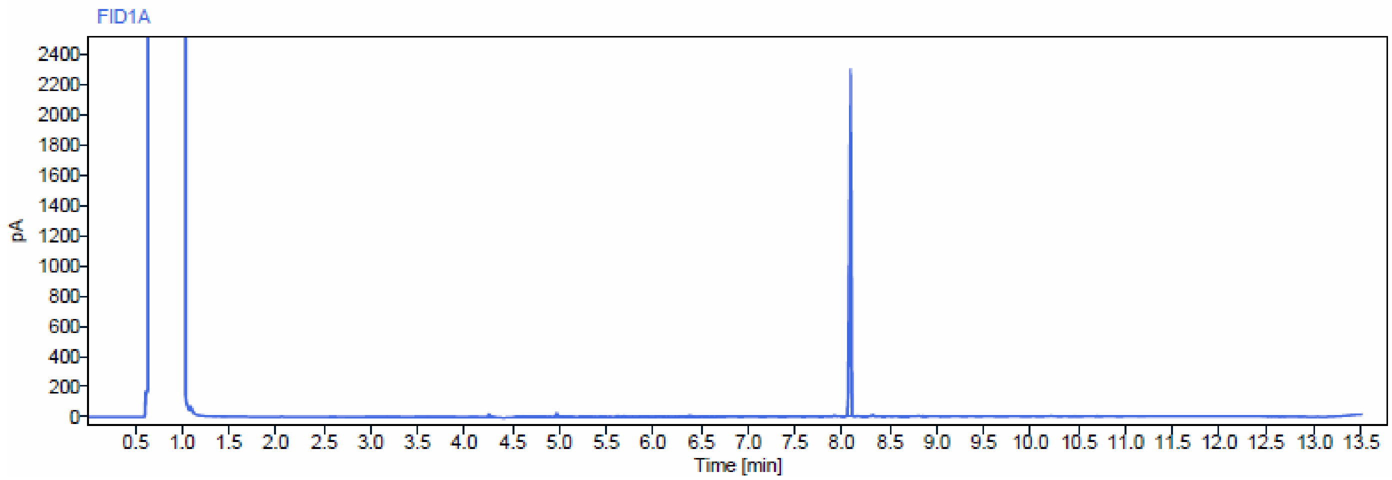
Single Injection Report

Sample name:	02170-02		
Data file:	13F-F.dx	**Operator:**	SYSTEM (SYSTEM)
Instrument:	GC-01	**Injection date:**	2025-06-18 12:17:22-06:00
Inj. volume:	2.000 µL	**Location:**	13
Acq. method:	8015M Instrument FRONT.amx	**Type:**	Sample
Processing method:	F_01302025_05272025.pmx	**Calib Level:**	
		Sample amount:	0.00
Manually modified:	Manual Integration		



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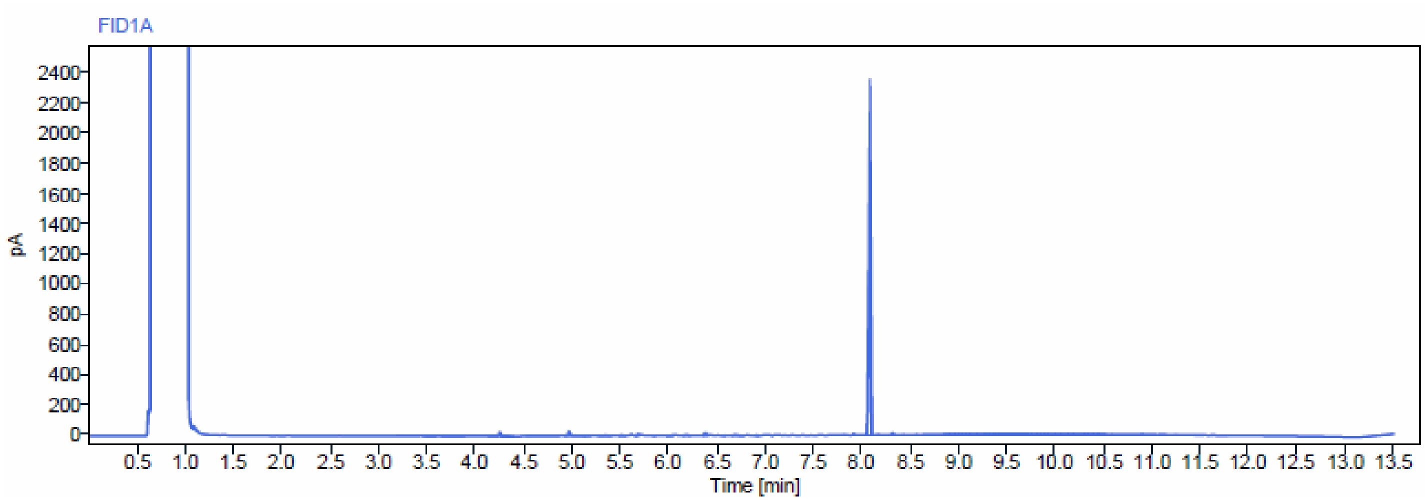
Single Injection Report

Sample name:	02170-03		
Data file:	14F-F.dx	**Operator:**	SYSTEM (SYSTEM)
Instrument:	GC-01	**Injection date:**	2025-06-18 12:38:45-06:00
Inj. volume:	2.000 µL	**Location:**	14
Acq. method:	8015M Instrument FRONT.amx	**Type:**	Sample
Processing method:	F_01302025_05272025.pmx	**Calib Level:**	
		Sample amount:	0.00
Manually modified:	Manual Integration		



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Single Injection Report

Sample name:	02170-04		
Data file:	15F-F.dx	**Operator:**	SYSTEM (SYSTEM)
Instrument:	GC-01	**Injection date:**	2025-06-18 13:00:07-06:00
Inj. volume:	2.000 µL	**Location:**	15
Acq. method:	8015M Instrument FRONT.amx	**Type:**	Sample
Processing method:	F_01302025_05272025.pmx	**Calib Level:**	
		Sample amount:	0.00
Manually modified:	Manual Integration