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June 26, 2020

Analytical Report for Service Request No: K2005164

Duane Morita
Naval Facilities Engineering Command Hawaii
Environmental Services Laboratory,
PRJ411
1423 Central Ave
Pearl Harbor, HI 96860

RE: JP-8

Dear Duane,

Enclosed are the results of the sample(s) submitted to our laboratory June 20, 2020
For your reference, these analyses have been assigned our service request number **K2005164.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3316. You may also contact me via email at Jeff.Christian@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Jeff Christian
Technical Services
Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

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1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: Naval Facilities Engineering Command Hawaii
Project: JP-8
Sample Matrix: Water

Service Request: K2005164
Date Received: 06/20/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 06/20/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

No significant anomalies were noted with this analysis.

Approved by Kent Clawson Date 06/26/2020

Chain of Custody

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ALS Environmental

CHAIN OF CUSTODY
109353

001

SR#_____

COC Set_____of_____

COC#_____

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Project Name: Red Hill - JP8	Project Number:
Project Manager:	
Company: NAVFAC Hawaii Env. Services Lab	
Address: 1423 Central Ave	
Phone #: (808) 471-0768	email: duane.morita@navy.mil
Sampler Signature: K. Miyaki	Sampler Printed Name: Ken Miyaki

CLIENT SAMPLE ID	LABID	SAMPLING Date	Time	Matrix	NUMBER OF CONTAINERS	7D	8015C / DRO	1	2	3	4	5	Remarks
1. 20-06644 (360-011)		06/18/20	1225	DW	3		X						
2. 20-06645 (360-001)		06/18/20	1205	DW	3		X						
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

X 2005164

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required

X II. Report Dup., (MS) MSD as required w/ chromatograms

___ III. CLP Like Summary (no raw data)

___ IV. Data Validation Report

___ V. EDD

Invoice Information

P.O.#_____

Bill To:_____

Turnaround Requirements

___ 24 hr. ___ 48 hr.

X 5 Day

___ Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: K. Miyaki	Signature	Signature	Signature: K Morrow	Signature	Signature
Printed Name: K. MIYAKI	Printed Name	Printed Name	Printed Name: K Morrow	Printed Name	Printed Name
Firm: NAV FAC	Firm: Fedex 770748129906	Firm	Firm: ALS	Firm	Firm
Date/Time: 6/18/20 1345	Date/Time	Date/Time	Date/Time: 6/20/20 1105	Date/Time	Date/Time

PC JC

Cooler Receipt and Preservation Form

Client Naval Facilities Engineering Command HI Service Request *K20* 05164

Received: 6/20/20 Opened: 6/20/20 By: KM Unloaded: 6/20/20 By: KM

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 Front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Temp Blank	Sample 1	Sample 2	Sample 3	Sample 4	IR GUN	Cooler / COC ID NA	Tracking Number NA	Filed
5.0	—	—	—	—	IR01	1of2	770748129906	
4.7	—	—	—	—	11	2of2	770748130277	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA (Y) N
   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions:

RUSH

Diesel Range Organics

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Naval Facilities Engineering Command Haw **Service Request:** K2005164
Project: JP-8

Cover Page - Organic Analysis Data Package
Semivolatile Range Organics by GC/FID

Sample Name	Lab Code	Date Collected	Date Received
20-06644(360-011)	K2005164-001	06/18/2020	06/20/2020
20-06645(360-001)	K2005164-002	06/18/2020	06/20/2020
20-06644(360-011)MS	KWG2001792-1	06/18/2020	06/20/2020

Analytical Results

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Collected:**	06/18/2020
Sample Matrix:	Water	**Date Received:**	06/20/2020

Semivolatile Range Organics by GC/FID

Sample Name:	20-06644(360-011)	**Units:**	ug/L
Lab Code:	K2005164-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
JP-8 (C8 - C18)	**91**	Z	53	53	1	06/25/20	06/25/20	KWG2001792	
C10 - C25 DRO	**19**	J	53	12	1	06/25/20	06/25/20	KWG2001792	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	98	55-133	06/25/20	Acceptable

Comments:

Analytical Results

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Collected:**	06/18/2020
Sample Matrix:	Water	**Date Received:**	06/20/2020

Semivolatile Range Organics by GC/FID

Sample Name:	20-06645(360-001)	**Units:**	ug/L
Lab Code:	K2005164-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
JP-8 (C8 - C18)	ND	U	53	53	1	06/25/20	06/25/20	KWG2001792	
C10 - C25 DRO	**13**	J	53	12	1	06/25/20	06/25/20	KWG2001792	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	84	55-133	06/25/20	Acceptable

Comments:

Analytical Results

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Semivolatile Range Organics by GC/FID

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG2001792-4	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
JP-8 (C8 - C18)	ND	U	50	50	1	06/25/20	06/25/20	KWG2001792	
C10 - C25 DRO	**15**	J	50	11	1	06/25/20	06/25/20	KWG2001792	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	94	55-133	06/25/20	Acceptable

Comments:

QA/QC Report

Client: Naval Facilities Engineering Command Haw **Service Request:** K2005164
Project: JP-8
Sample Matrix: Water

Surrogate Recovery Summary
Semivolatile Range Organics by GC/FID

Extraction Method: EPA 3510C **Units:** Percent
Analysis Method: 8015C **Level:** Low

Sample Name	Lab Code	Sur1
20-06644(360-011)	K2005164-001	98
20-06645(360-001)	K2005164-002	84
Method Blank	KWG2001792-4	94
20-06644(360-011)MS	KWG2001792-1	83
Lab Control Sample	KWG2001792-2	84
Duplicate Lab Control Sample	KWG2001792-3	81

Surrogate Recovery Control Limits (%)

Sur1 = o-Terphenyl 55-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Extracted:**	06/25/2020
Sample Matrix:	Water	**Date Analyzed:**	06/25/2020

Matrix Spike Summary
Semivolatile Range Organics by GC/FID

Sample Name:	20-06644(360-011)	**Units:**	ug/L
Lab Code:	K2005164-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8015C	**Extraction Lot:**	KWG2001792

20-06644(360-011)MS
KWG2001792-1
Matrix Spike

Analyte Name	Sample Result	Result	Spike Amount	%Rec	%Rec Limits
JP-8 (C8 - C18)	91	2480	3300	73	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Extracted:**	06/25/2020
Sample Matrix:	Water	**Date Analyzed:**	06/25/2020

Lab Control Spike/Duplicate Lab Control Spike Summary
Semivolatile Range Organics by GC/FID

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	8015C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG2001792

	Lab Control Sample KWG2001792-2 Lab Control Spike			Duplicate Lab Control Sample KWG2001792-3 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
JP-8 (C8 - C18)	2340	3200	73	2280	3200	71	70-130	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Extracted:**	06/25/2020
Sample Matrix:	Water	**Date Analyzed:**	06/25/2020
		Time Analyzed:	20:07

Method Blank Summary
Semivolatile Range Organics by GC/FID

Sample Name:	Method Blank	**Instrument ID:**	GC21
Lab Code:	KWG2001792-4	**File ID:**	J:\GC21\DATA\062420F-DRO\0624F189.D
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8015C	**Extraction Lot:**	KWG2001792

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
20-06644(360-011)	K2005164-001	J:\GC21\DATA\062420F-DRO\0624F192.D	06/25/20	21:15
20-06645(360-001)	K2005164-002	J:\GC21\DATA\062420F-DRO\0624F193.D	06/25/20	21:37

QA/QC Report

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Extracted:**	06/25/2020
Sample Matrix:	Water	**Date Analyzed:**	06/25/2020
		Time Analyzed:	20:07

Method Blank Summary
Semivolatile Range Organics by GC/FID

Sample Name:	Method Blank	**Instrument ID:**	GC21
Lab Code:	KWG2001792-4	**File ID:**	J:\GC21\DATA\062420F-JP8\0624F189.D
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8015C	**Extraction Lot:**	KWG2001792

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Duplicate Lab Control Sample	KWG2001792-3	J:\GC21\DATA\062420F-JP8\0624F190.D	06/25/20	20:30
Lab Control Sample	KWG2001792-2	J:\GC21\DATA\062420F-JP8\0624F191.D	06/25/20	20:52
20-06644(360-011)	K2005164-001	J:\GC21\DATA\062420F-JP8\0624F192.D	06/25/20	21:15
20-06645(360-001)	K2005164-002	J:\GC21\DATA\062420F-JP8\0624F193.D	06/25/20	21:37
20-06644(360-011)MS	KWG2001792-1	J:\GC21\DATA\062420F-JP8\0624F194.D	06/25/20	22:00

QA/QC Report

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Extracted:**	06/25/2020
Sample Matrix:	Water	**Date Analyzed:**	06/25/2020
		Time Analyzed:	20:52

Lab Control Sample Summary
Semivolatile Range Organics by GC/FID

Sample Name:	Lab Control Sample	**Instrument ID:**	GC21
Lab Code:	KWG2001792-2	**File ID:**	J:\GC21\DATA\062420F-JP8\0624F191.D
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8015C	**Extraction Lot:**	KWG2001792

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG2001792-4	J:\GC21\DATA\062420F-JP8\0624F189.D	06/25/20	20:07
Method Blank	KWG2001792-4	J:\GC21\DATA\062420F-DRO\0624F189.D	06/25/20	20:07
20-06644(360-011)	K2005164-001	J:\GC21\DATA\062420F-JP8\0624F192.D	06/25/20	21:15
20-06644(360-011)	K2005164-001	J:\GC21\DATA\062420F-DRO\0624F192.D	06/25/20	21:15
20-06645(360-001)	K2005164-002	J:\GC21\DATA\062420F-JP8\0624F193.D	06/25/20	21:37
20-06645(360-001)	K2005164-002	J:\GC21\DATA\062420F-DRO\0624F193.D	06/25/20	21:37
20-06644(360-011)MS	KWG2001792-1	J:\GC21\DATA\062420F-JP8\0624F194.D	06/25/20	22:00

Client: Naval Facilities Engineering Command Haw
Project: JP-8
Service Request: K2005164
Calibration Date: 06/24/2020

Initial Calibration Summary
Semivolatile Range Organics by GC/FID

Calibration ID: CAL16321
Instrument ID: GC21
Column: ZB-1

Level ID	File ID
A	J:\GC21\DATA\062420F\0624F132.D
B	J:\GC21\DATA\062420F\0624F133.D
C	J:\GC21\DATA\062420F\0624F134.D
D	J:\GC21\DATA\062420F\0624F135.D
E	J:\GC21\DATA\062420F\0624F136.D
F	J:\GC21\DATA\062420F\0624F137.D
G	J:\GC21\DATA\062420F\0624F138.D
H	J:\GC21\DATA\062420F\0624F139.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
JP-8 (C8 - C18)	A	20	2220	B	50	2160	C	200	1820	D	500	1840	E	2000	1700
	F	5000	1690	G	20000	1620	H	50000	1540						
o-Terphenyl	A	1.0	2300	B	2.5	2460	C	10	2280	D	25	2210	E	100	2130
	F	250	2020												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Naval Facilities Engineering Command Haw **Service Request:** K2005164
Project: JP-8 **Calibration Date:** 06/24/2020

Initial Calibration Summary
Semivolatile Range Organics by GC/FID

Calibration ID: CAL16321 **Column:** ZB-1
Instrument ID: GC21

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
JP-8 (C8 - C18)	MS	AverageRF	% RSD	13.6		≤ 20
o-Terphenyl	SURR	AverageRF	% RSD	6.8		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Naval Facilities Engineering Command Haw
Project: JP-8

Service Request: K2005164
Calibration Date: 06/24/2020
Date Analyzed: 06/25/2020

Second Source Calibration Verification
Semivolatile Range Organics by GC/FID

Calibration Type: External Standard
Analysis Method: 8015C

Calibration ID: CAL16321
Units: ppm

File ID: J:\GC21\DATA\062420F\0624F142.D

Column ID: ZB-1

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
JP-8 (C8 - C18)	1000	860	1820	1570	-14	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: Naval Facilities Engineering Command Haw **Service Request:** K2005164
Project: JP-8 **Calibration Date:** 10/21/2019

Initial Calibration Summary
Semivolatile Range Organics by GC/FID

Calibration ID: CAL16158 **Column:** ZB-1
Instrument ID: GC21

Level ID	File ID
A	J:\GC21\DATA\102119F\1021F105.D
B	J:\GC21\DATA\102119F\1021F106.D
C	J:\GC21\DATA\102119F\1021F107.D
D	J:\GC21\DATA\102119F\1021F108.D
E	J:\GC21\DATA\102119F\1021F112.D
F	J:\GC21\DATA\102119F\1021F113.D
G	J:\GC21\DATA\102119F\1021F114.D
H	J:\GC21\DATA\102119F\1021F115.D
I	J:\GC21\DATA\102119F\1021F116.D
J	J:\GC21\DATA\102119F\1021F120.D
K	J:\GC21\DATA\102119F\1021F121.D
L	J:\GC21\DATA\102119F\1021F122.D
M	J:\GC21\DATA\102119F\1021F123.D
N	J:\GC21\DATA\102119F\1021F124.D
O	J:\GC21\DATA\102119F\1021F125.D
P	J:\GC21\DATA\102119F\1021F126.D
Q	J:\GC21\DATA\102119F\1021F127.D
R	J:\GC21\DATA\102419F\1024F120.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
C10 - C25 DRO													J	20	2050
	K	50	2000	L	200	1850	M	500	1930	N	2000	1750	O	5000	1690
	P	20000	1560	Q	50000	1590									
o-Terphenyl													J	1.0	2100
	K	2.5	1990	L	10	1940	M	25	1920	N	100	1820	O	250	1710

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Naval Facilities Engineering Command Haw **Service Request:** K2005164
Project: JP-8 **Calibration Date:** 10/21/2019

Initial Calibration Summary
Semivolatile Range Organics by GC/FID

Calibration ID: CAL16158 **Column:** ZB-1
Instrument ID: GC21

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
C10 - C25 DRO	MS	AverageRF	% RSD	10.3		≤ 20
o-Terphenyl	SURR	AverageRF	% RSD	7.1		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Naval Facilities Engineering Command Haw
Project: JP-8

Service Request: K2005164
Calibration Date: 10/21/2019
Date Analyzed: 10/22/2019

Second Source Calibration Verification
Semivolatile Range Organics by GC/FID

Calibration Type: External Standard
Analysis Method: 8015C

Calibration ID: CAL16158
Units: ppm

File ID: J:\GC21\DATA\102119F\1021F118.D
J:\GC21\DATA\102119F\1021F129.D
J:\GC21\DATA\102519F\1025F110.D

Column ID: ZB-1

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
C10 - C25 DRO	1000	910	1800	1640	-9	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

QA/QC Results

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Analyzed:**	06/25/2020

Continuing Calibration Verification Summary
Semivolatile Range Organics by GC/FID

Calibration Type:	External Standard	**Calibration Date:**	10/21/2019
Analysis Method:	8015C	**Calibration ID:**	CAL16158
		Analysis Lot:	KWG2001830
		Units:	ppm
File ID:	J:\GC21\DATA\062420F-DRO\0624F185.D	**Column ID:**	ZB-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
C10 - C25 DRO	1000	900	1800	1630	-10	NA	± 20	AverageRF
o-Terphenyl	50	57	1910	2170	13	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Naval Facilities Engineering Command Haw
Project: JP-8
Service Request: K2005164
Date Analyzed: 06/25/2020

Continuing Calibration Verification Summary
Semivolatile Range Organics by GC/FID

Calibration Type: External Standard
Analysis Method: 8015C
Calibration Date: 06/24/2020
Calibration ID: CAL16321
Analysis Lot: KWG2001831
Units: ppm
File ID: J:\GC21\DATA\062420F-JP8\0624F187.D
Column ID: ZB-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
JP-8 (C8 - C18)	1000	890	1820	1630	-11	NA	± 20	AverageRF
o-Terphenyl	50	47	2230	2110	-6	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Analyzed:**	06/25/2020

Continuing Calibration Verification Summary
Semivolatile Range Organics by GC/FID

Calibration Type:	External Standard	**Calibration Date:**	10/21/2019
Analysis Method:	8015C	**Calibration ID:**	CAL16158
		Analysis Lot:	KWG2001830
		Units:	ppm
File ID:	J:\GC21\DATA\062420F-DRO\0624F195.D	**Column ID:**	ZB-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
C10 - C25 DRO	1000	920	1800	1660	-8	NA	± 20	AverageRF
o-Terphenyl	50	57	1910	2200	15	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client:	Naval Facilities Engineering Command Haw	**Service Request:**	K2005164
Project:	JP-8	**Date Analyzed:**	06/25/2020

Continuing Calibration Verification Summary
Semivolatile Range Organics by GC/FID

Calibration Type:	External Standard	**Calibration Date:**	06/24/2020
Analysis Method:	8015C	**Calibration ID:**	CAL16321
		Analysis Lot:	KWG2001831
		Units:	ppm
File ID:	J:\GC21\DATA\062420F-JP8\0624F196.D	**Column ID:**	ZB-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
JP-8 (C8 - C18)	1000	930	1820	1700	-7	NA	± 20	AverageRF
o-Terphenyl	50	49	2230	2200	-2	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Naval Facilities Engineering Command Haw **Service Request:** K2005164
Project: JP-8

Analysis Run Log
Semivolatile Range Organics by GC/FID

Analysis Method: 8015C

Analysis Lot: KWG2001830
Instrument ID: GC21
Column: ZB-1

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0624F185.D	Continuing Calibration Verification	KWG2001830-1	6/25/2020	19:00		6/25/2020	19:16
0624F188.D	Instrument Blank	KWG2001830-2	6/25/2020	19:45		6/25/2020	20:01
0624F189.D	Method Blank	KWG2001792-4	6/25/2020	20:07		6/25/2020	20:23
0624F192.D	20-06644(360-011)	K2005164-001	6/25/2020	21:15		6/25/2020	21:31
0624F193.D	20-06645(360-001)	K2005164-002	6/25/2020	21:37		6/25/2020	21:53
0624F195.D	Continuing Calibration Verification	KWG2001830-3	6/25/2020	22:22		6/25/2020	22:38
0624F197.D	Instrument Blank	KWG2001830-4	6/25/2020	23:07		6/25/2020	23:23

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Naval Facilities Engineering Command Haw **Service Request:** K2005164
Project: JP-8

Analysis Run Log
Semivolatile Range Organics by GC/FID

Analysis Method: 8015C

Analysis Lot: KWG2001831
Instrument ID: GC21
Column: ZB-1

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0624F187.D	Continuing Calibration Verification	KWG2001831-1	6/25/2020	19:22		6/25/2020	19:38
0624F188.D	Instrument Blank	KWG2001831-2	6/25/2020	19:45		6/25/2020	20:01
0624F189.D	Method Blank	KWG2001792-4	6/25/2020	20:07		6/25/2020	20:23
0624F190.D	Duplicate Lab Control Sample	KWG2001792-3	6/25/2020	20:30		6/25/2020	20:46
0624F191.D	Lab Control Sample	KWG2001792-2	6/25/2020	20:52		6/25/2020	21:08
0624F192.D	20-06644(360-011)	K2005164-001	6/25/2020	21:15		6/25/2020	21:31
0624F193.D	20-06645(360-001)	K2005164-002	6/25/2020	21:37		6/25/2020	21:53
0624F194.D	20-06644(360-011)MS	KWG2001792-1	6/25/2020	22:00		6/25/2020	22:16
0624F196.D	Continuing Calibration Verification	KWG2001831-3	6/25/2020	22:45		6/25/2020	23:01
0624F197.D	Instrument Blank	KWG2001831-4	6/25/2020	23:07		6/25/2020	23:23

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Naval Facilities Engineering Command Haw
Project: JP-8
Sample Matrix: Water

Service Request: K2005164
Date Extracted: 06/25/2020

Extraction Prep Log
Semivolatile Range Organics by GC/FID

Extraction Method: EPA 3510C
Analysis Method: 8015C

Extraction Lot: KWG2001792
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
20-06644(360-011)	K2005164-001	06/18/20	06/20/20	480mL	1ml	NA	
20-06645(360-001)	K2005164-002	06/18/20	06/20/20	480mL	1ml	NA	
Method Blank	KWG2001792-4	NA	NA	500mL	1ml	NA	
20-06644(360-011)MS	KWG2001792-1	06/18/20	06/20/20	485mL	1ml	NA	
Lab Control Sample	KWG2001792-2	NA	NA	500mL	1ml	NA	
Duplicate Lab Control Sample	KWG2001792-3	NA	NA	500mL	1ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Diesel Range Organics

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com

1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F192.D
Lab ID: K2005164-001
RunType: SMPL
Matrix: WATER

Date Acquired: 06/25/2020 21:15
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
ListJoinID: LJ20244

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F192.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 21:15	**Quant Date:**	06/26/2020 12:07	**Vial:**	29
Run Type:	SMPL	**ListJoinID:**	LJ20244	**Dilution:**	1.0
Lab ID:	K2005164-001			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**	06/18/2020	**Receive Date:**	06/20/2020

Analysis Lot:	KWG2001830	**Prep Lot:**	KWG2001792	**Report Group:**	K2005164
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751776	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:	Semivolatile Range Organics by GC/FID	**Report List ID:**	LJ20244
		Method ID:	MJ745
MB Ref:	J:\GC21\DATA\062420F-DRO\0624F189.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
o-Terphenyl	5.51	0.00?	93595	48.93	98	55-133	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C10 - C25 DRO	3.17		16278	9.04	19	J	

Prep Amount:	480 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F192.D Vial: 29
Acq On : 25 Jun 2020 9:15 pm Operator: TAP
Sample : K2005164-001 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:32 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	4-Bromofluorobenzene	2.82	34429	35.967	ppm
Spiked Amount	50.000	Recovery	=	71.93%	
2) S	o-Terphenyl	5.51	93595	48.928	ppm
Spiked Amount	50.000	Recovery	=	97.86%	
3) S	n-Triacontane	7.67	74266	48.987	ppm
Spiked Amount	50.000	Recovery	=	97.97%	
	Target Compounds				
6) H	C10-C25ex DRO [AK102]	3.17	16278	9.039	ppm
7) H	C10-C28in DRO [8015]	3.17	20647	11.079	ppm
8) H	C12-C25ex DRO [NWTPH]	3.81	9307	6.189	ppm
10) H	C25-C36in RRO [NWTPH]	6.69	9636	10.526	ppm
11) H	C25-C36in RRO [AK103]	6.69	9901	11.041	ppm

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

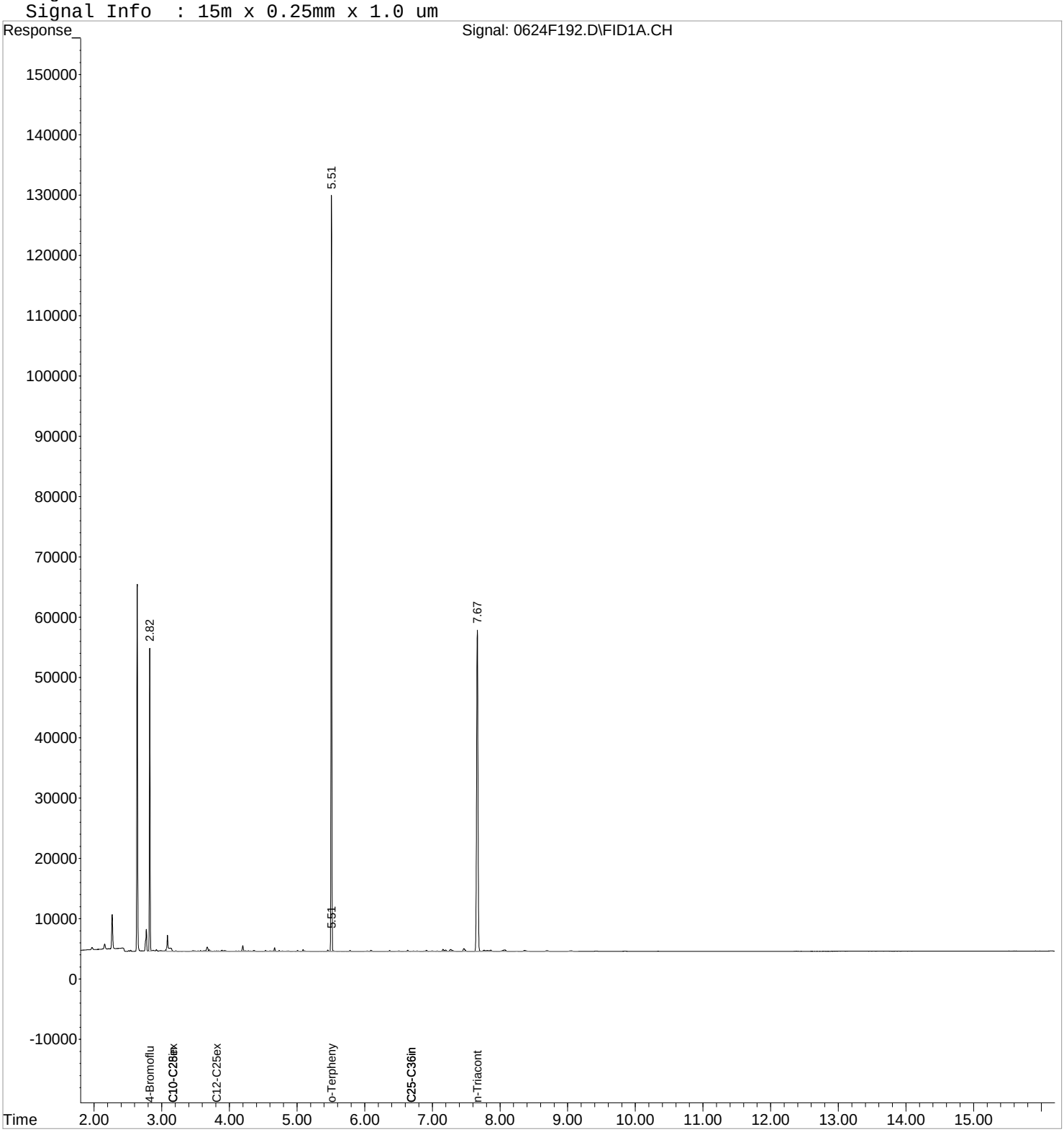
Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F192.D Vial: 29
Acq On : 25 Jun 2020 9:15 pm Operator: TAP
Sample : K2005164-001 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F192.D
Lab ID: K2005164-001
RunType: SMPL
Matrix: WATER

Date Acquired: 06/25/2020 21:15
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
ListJoinID: LJ20244

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F192.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 21:15	**Quant Date:**	06/26/2020 11:58	**Vial:**	29
Run Type:	SMPL	**ListJoinID:**	LJ20244	**Dilution:**	1.0
Lab ID:	K2005164-001			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**	06/18/2020	**Receive Date:**	06/20/2020

Analysis Lot:	KWG2001831	**Prep Lot:**	KWG2001792	**Report Group:**	K2005164
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751776	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:	Semivolatile Range Organics by GC/FID	**Report List ID:**	LJ20244
		Method ID:	MJ745
MB Ref:	J:\GC21\DATA\062420F-JP8\0624F189.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
o-Terphenyl	5.51	0.00?	93595	41.88	84	55-133	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		79291	43.50	91	Z	

Prep Amount:	480 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F192.D Vial: 29
Acq On : 25 Jun 2020 9:15 pm Operator: TAP
Sample : K2005164-001 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:22 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	34429	30.586 ppm
Spiked Amount 50.000	Recovery	=	61.17%
2) S o-Terphenyl	5.51	93595	41.884 ppm
Spiked Amount 50.000	Recovery	=	83.77%
3) S n-Triacontane	7.67	74266	42.062 ppm
Spiked Amount 50.000	Recovery	=	84.12%
Target Compounds			
4) H C8-C18in JP-8	2.35	79291	43.496 ppm

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

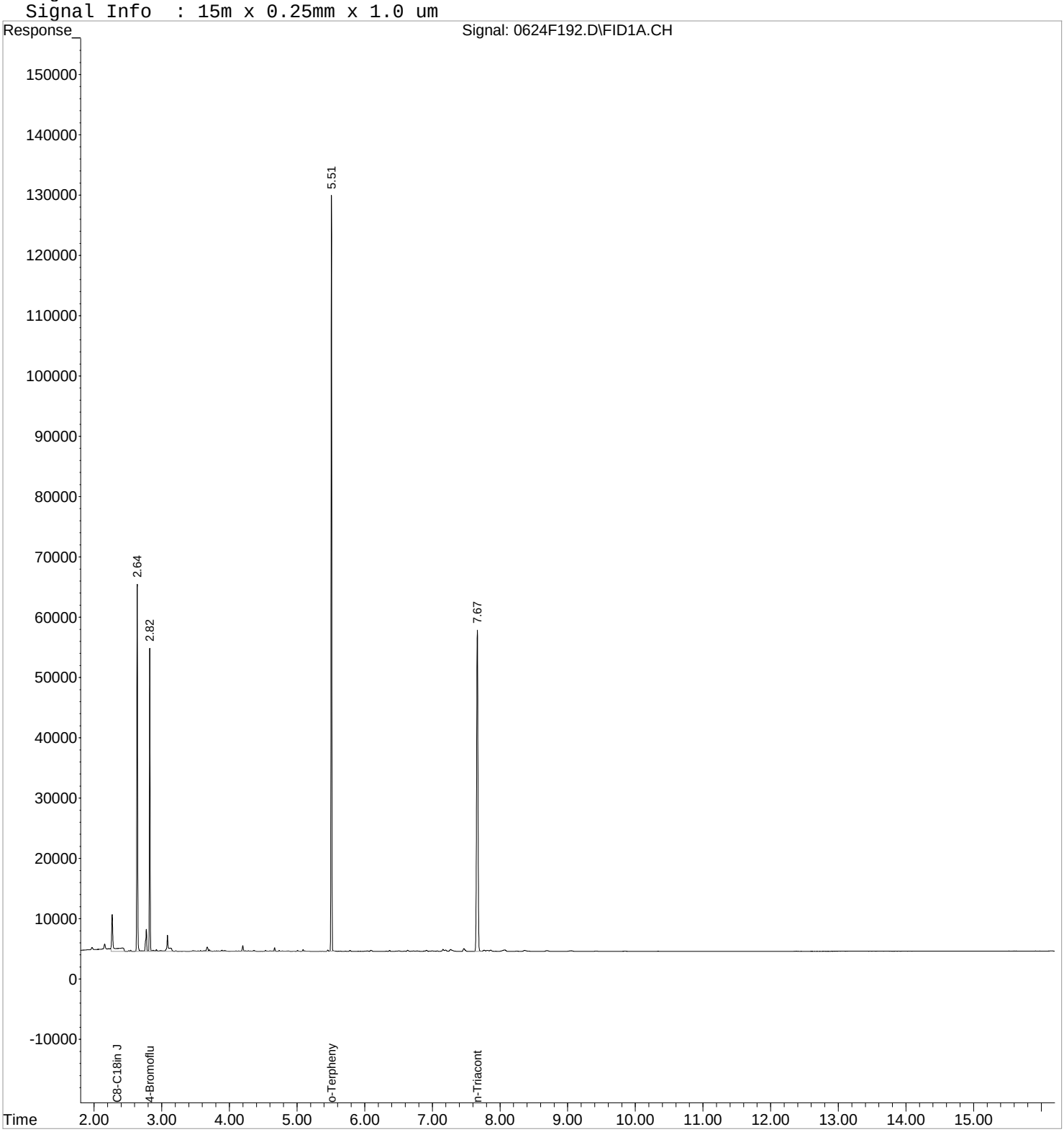
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F192.D Vial: 29
Acq On : 25 Jun 2020 9:15 pm Operator: TAP
Sample : K2005164-001 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F193.D
Lab ID: K2005164-002
RunType: SMPL
Matrix: WATER

Date Acquired: 06/25/2020 21:37
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
ListJoinID: LJ20244

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F193.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 21:37	**Quant Date:**	06/26/2020 12:07	**Vial:**	30
Run Type:	SMPL	**ListJoinID:**	LJ20244	**Dilution:**	1.0
Lab ID:	K2005164-002			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**	06/18/2020	**Receive Date:**	06/20/2020

Analysis Lot:	KWG2001830	**Prep Lot:**	KWG2001792	**Report Group:**	K2005164
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751777	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:	Semivolatile Range Organics by GC/FID	**Report List ID:**	LJ20244
		Method ID:	MJ745
MB Ref:	J:\GC21\DATA\062420F-DRO\0624F189.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
o-Terphenyl	5.51	0.00?	79967	41.80	84	55-133	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C10 - C25 DRO	3.17		11165	6.20	13	J	

Prep Amount:	480 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F193.D Vial: 30
Acq On : 25 Jun 2020 9:37 pm Operator: TAP
Sample : K2005164-002 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:33 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	4-Bromofluorobenzene	2.82	28158	29.416 ppm
Spiked Amount	50.000	Recovery	=	58.83%
2) S	o-Terphenyl	5.51	79967	41.803 ppm
Spiked Amount	50.000	Recovery	=	83.61%
3) S	n-Triacontane	7.66	62180	41.015 ppm
Spiked Amount	50.000	Recovery	=	82.03%
	Target Compounds			
6) H	C10-C25ex DRO [AK102]	3.17	11165	6.200 ppm
7) H	C10-C28in DRO [8015]	3.17	15781	8.468 ppm
8) H	C12-C25ex DRO [NWTPH]	3.81	6744	4.485 ppm
10) H	C25-C36in RRO [NWTPH]	6.69	10409	11.371 ppm
11) H	C25-C36in RRO [AK103]	6.69	10629	11.852 ppm

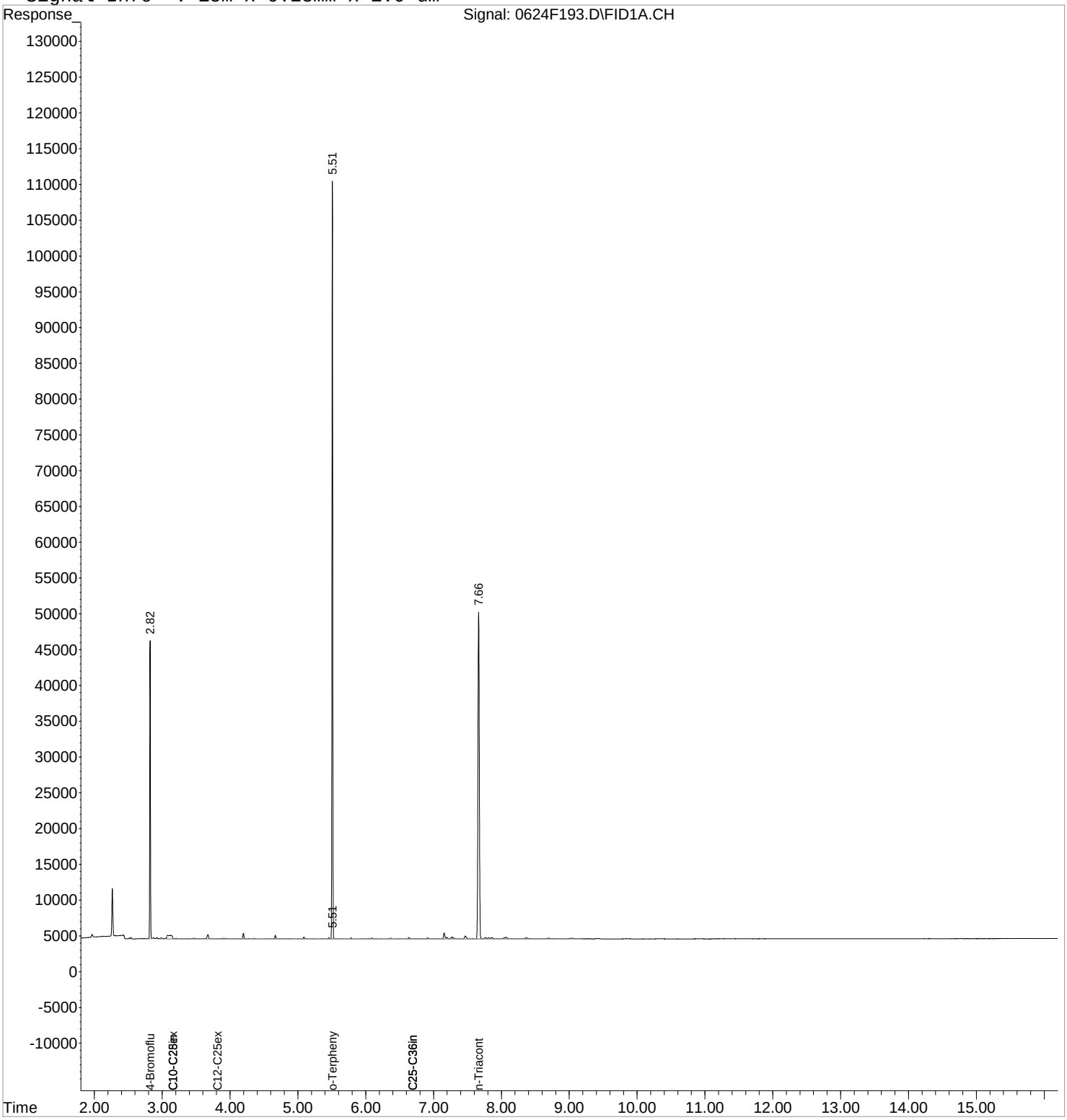
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F193.D Vial: 30
Acq On : 25 Jun 2020 9:37 pm Operator: TAP
Sample : K2005164-002 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F193.D
Lab ID: K2005164-002
RunType: SMPL
Matrix: WATER

Date Acquired: 06/25/2020 21:37
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
ListJoinID: LJ20244

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F193.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 21:37	**Quant Date:**	06/26/2020 11:58	**Vial:**	30
Run Type:	SMPL	**ListJoinID:**	LJ20244	**Dilution:**	1.0
Lab ID:	K2005164-002			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**	06/18/2020	**Receive Date:**	06/20/2020

Analysis Lot:	KWG2001831	**Prep Lot:**	KWG2001792	**Report Group:**	K2005164
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751777	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:	Semivolatile Range Organics by GC/FID	**Report List ID:**	LJ20244
		Method ID:	MJ745
MB Ref:	J:\GC21\DATA\062420F-JP8\0624F189.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
o-Terphenyl	5.51	0.00?	79967	35.79	72	55-133	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		22009	12.07	53	U	

Prep Amount:	480 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F193.D Vial: 30
Acq On : 25 Jun 2020 9:37 pm Operator: TAP
Sample : K2005164-002 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:23 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	28158	25.015 ppm
Spiked Amount 50.000	Recovery	=	50.03%
2) S o-Terphenyl	5.51	79967	35.785 ppm
Spiked Amount 50.000	Recovery	=	71.57%
3) S n-Triacontane	7.66	62180	35.217 ppm
Spiked Amount 50.000	Recovery	=	70.43%
Target Compounds			
4) H C8-C18in JP-8	2.35	22009	12.073 ppm

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

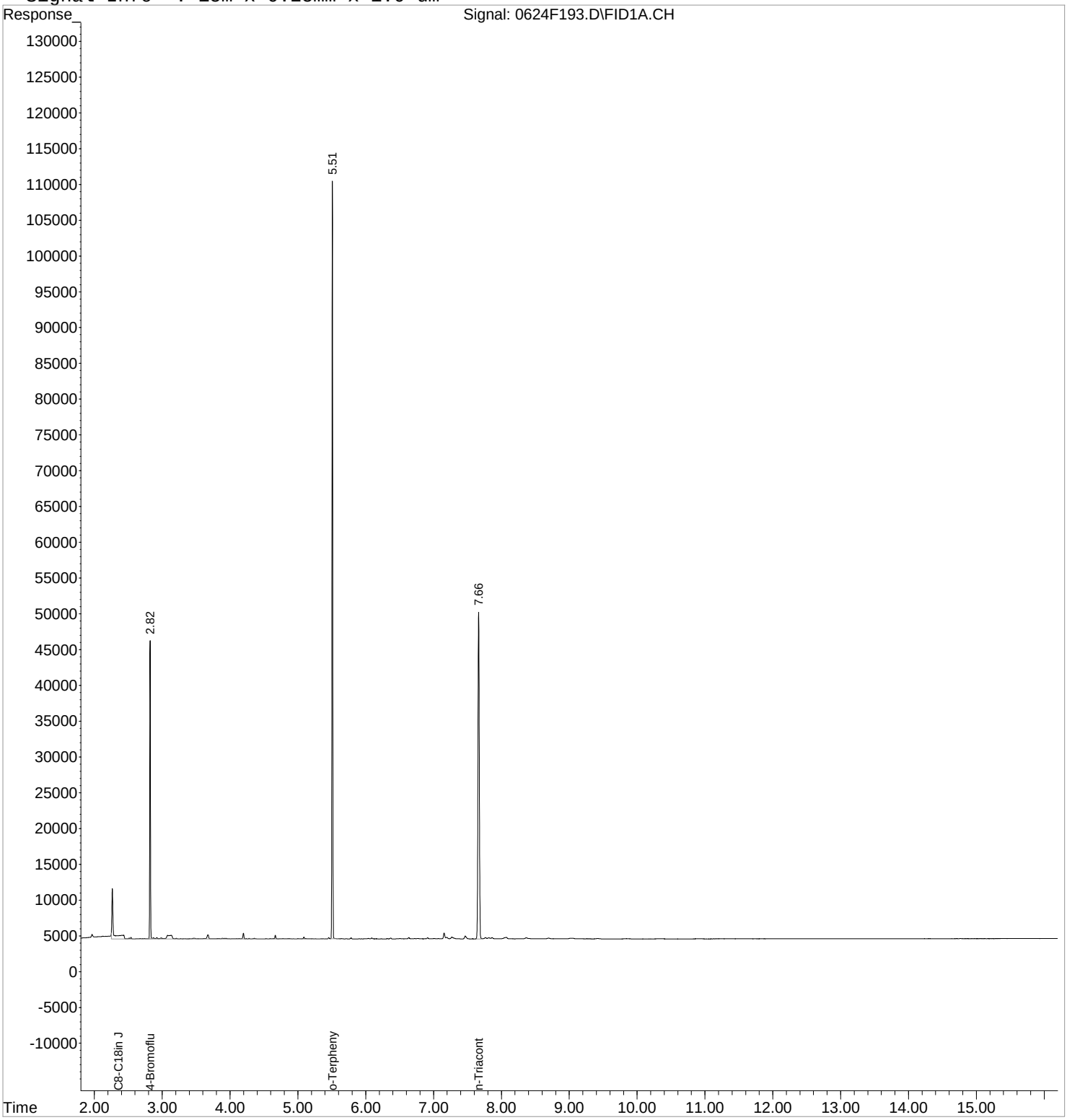
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F193.D Vial: 30
Acq On : 25 Jun 2020 9:37 pm Operator: TAP
Sample : K2005164-002 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F189.D
Lab ID: KWG2001792-4
RunType: MB
Matrix: WATER

Date Acquired: 06/25/2020 20:07
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F189.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 20:07	**Quant Date:**	06/26/2020 12:07	**Vial:**	26
Run Type:	MB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001792-4			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001830	**Prep Lot:**	KWG2001792	**Report Group:**	
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751781	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	0.00?	35007	36.57	73	50-150	OK	
o-Terphenyl	5.51	0.00?	89525	46.80	94	55-133	OK	
n-Triacontane	7.67	0.01?	67587	44.58	89	54-136	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C9 - C24 DRO	2.80		15323				
C10 - C25 DRO	3.17c		13208	7.33	14.7	J	
C10 - C28 DRO	3.17c		17145	9.20	18.4	J	
Diesel Range Organics (DRO)	3.81		7470	4.97	11	U	
Residual Range Organics (RRO)	6.69		9461	10.34	20.7	J	
C25 - C44 RRO	6.90		16276				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F189.D Vial: 26
Acq On : 25 Jun 2020 8:07 pm Operator: TAP
Sample : KWG2001792-04MB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:29 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	4-Bromofluorobenzene	2.82	35007	36.571 ppm
Spiked Amount	50.000	Recovery	=	73.14%
2) S	o-Terphenyl	5.51	89525	46.800 ppm
Spiked Amount	50.000	Recovery	=	93.60%
3) S	n-Triacontane	7.67	67587	44.581 ppm
Spiked Amount	50.000	Recovery	=	89.16%
	Target Compounds			
6) H	C10-C25ex DRO [AK102]	3.17	13208	7.334 ppm
7) H	C10-C28in DRO [8015]	3.17	17145	9.200 ppm
8) H	C12-C25ex DRO [NWTPH]	3.81	7470	4.968 ppm
10) H	C25-C36in RRO [NWTPH]	6.69	9461	10.335 ppm
11) H	C25-C36in RRO [AK103]	6.69	9598	10.703 ppm

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

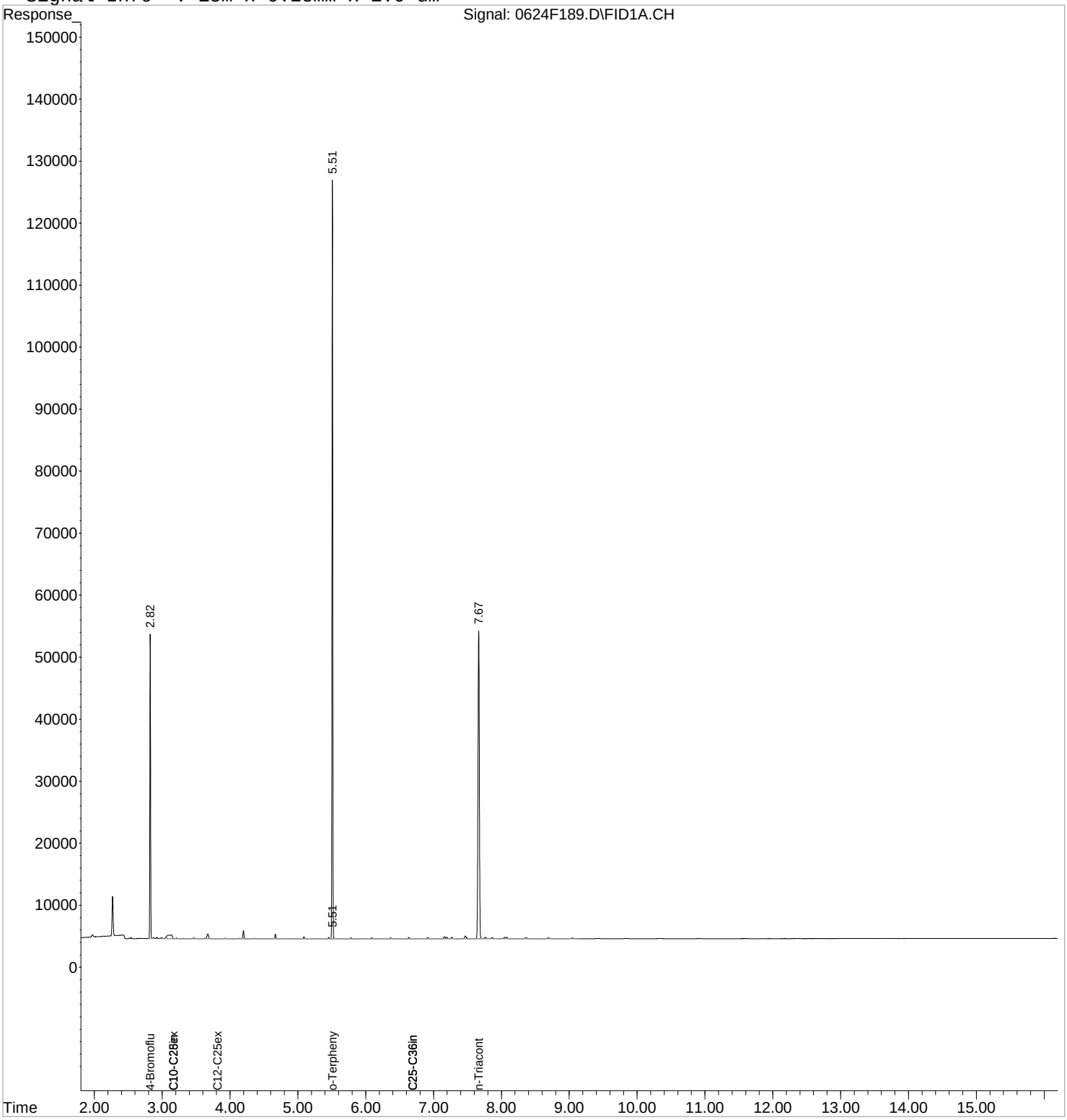
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F189.D Vial: 26
Acq On : 25 Jun 2020 8:07 pm Operator: TAP
Sample : KWG2001792-04MB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F189.D
Lab ID: KWG2001792-4
RunType: MB
Matrix: WATER

Date Acquired: 06/25/2020 20:07
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F189.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 20:07	**Quant Date:**	06/26/2020 11:58	**Vial:**	26
Run Type:	MB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001792-4			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**	KWG2001792	**Report Group:**	
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751781	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	0.00?	35007	31.10	62	50-150	OK	
o-Terphenyl	5.51	0.00?	89525	40.06	80	55-133	OK	NR
n-Triacontane	7.67	0.01?	67587	38.28	77	54-136	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		25906	14.21	50	U	

Prep Amount:	500 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F189.D Vial: 26
Acq On : 25 Jun 2020 8:07 pm Operator: TAP
Sample : KWG2001792-04MB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:21 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	35007	31.100 ppm
Spiked Amount 50.000	Recovery	=	62.20%
2) S o-Terphenyl	5.51	89525	40.063 ppm
Spiked Amount 50.000	Recovery	=	80.13%
3) S n-Triacontane	7.67	67587	38.279 ppm
Spiked Amount 50.000	Recovery	=	76.56%
Target Compounds			
4) H C8-C18in JP-8	2.35	25906	14.211 ppm

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

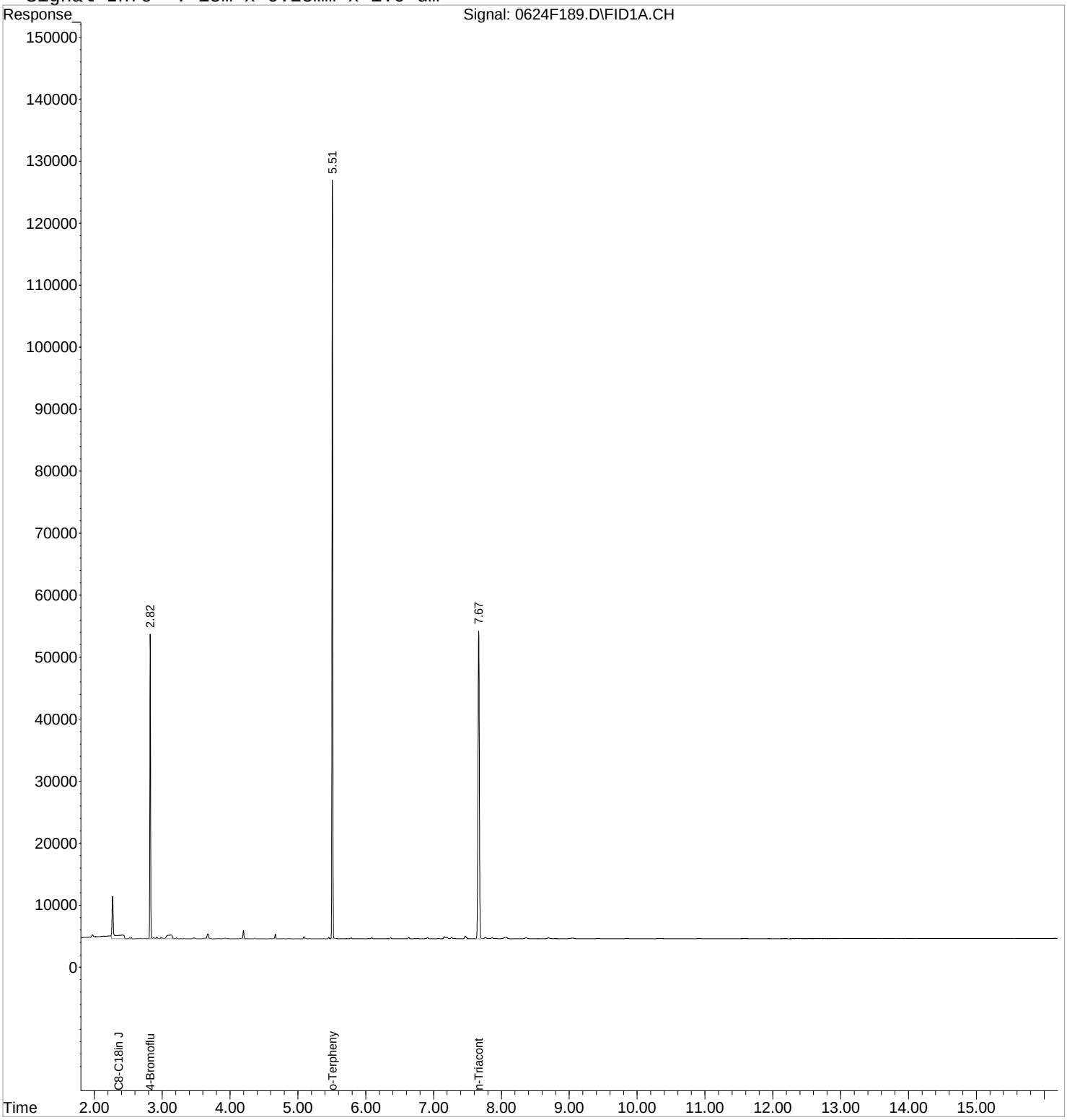
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F189.D Vial: 26
Acq On : 25 Jun 2020 8:07 pm Operator: TAP
Sample : KWG2001792-04MB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F194.D
Lab ID: KWG2001792-1 -- K2005164-001MS
RunType: MS
Matrix: WATER

Date Acquired: 06/25/2020 22:00
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F194.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 22:00	**Quant Date:**	06/26/2020 11:58	**Vial:**	31
Run Type:	MS	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001792-1 -- K2005164-001MS			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**	KWG2001792	**Report Group:**	
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751778	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:	J:\GC21\DATA\062420F-JP8\0624F189.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	0.00?	40375	35.87	72	50-150	OK	
o-Terphenyl	5.51	0.00?	93018	41.63	83	55-133	OK	
n-Triacontane	7.66	0.00?	69352	39.28	79	54-136	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		2196280	1,205	2480		

Prep Amount:	485 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F194.D Vial: 31
Acq On : 25 Jun 2020 10:00 pm Operator: TAP
Sample : KWG2001792-01MS Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:23 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	40375	35.869 ppm
Spiked Amount 50.000	Recovery =		71.74%
2) S o-Terphenyl	5.51	93018	41.626 ppm
Spiked Amount 50.000	Recovery =		83.25%
3) S n-Triacontane	7.66	69352	39.279 ppm
Spiked Amount 50.000	Recovery =		78.56%
Target Compounds			
4) H C8-C18in JP-8	2.35	2196280	1204.804 ppm

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

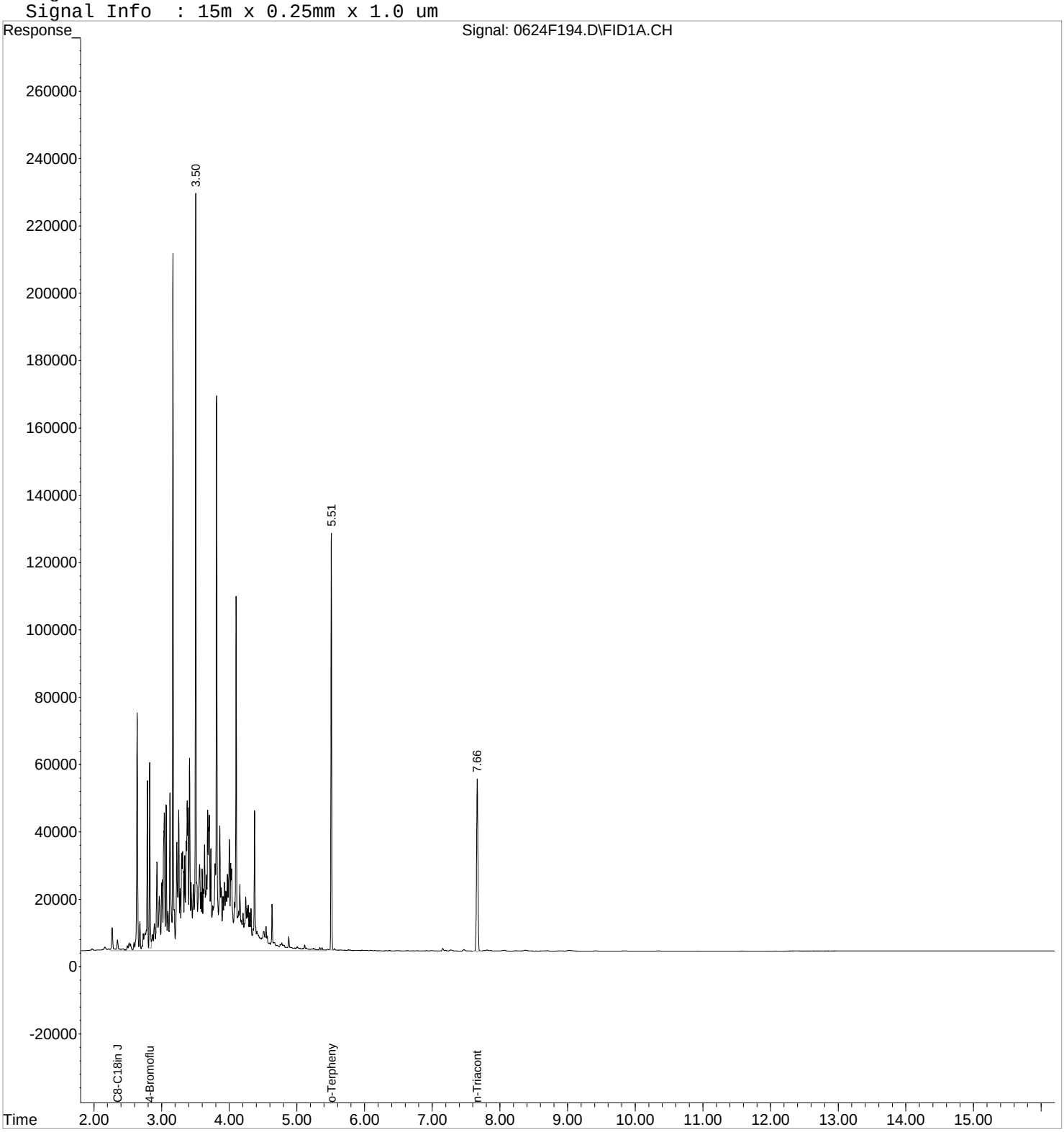
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F194.D Vial: 31
Acq On : 25 Jun 2020 10:00 pm Operator: TAP
Sample : KWG2001792-01MS Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F191.D
Lab ID: KWG2001792-2
RunType: LCS
Matrix: WATER

Date Acquired: 06/25/2020 20:52
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F191.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 20:52	**Quant Date:**	06/26/2020 11:58	**Vial:**	28
Run Type:	LCS	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001792-2			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**	KWG2001792	**Report Group:**	
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751779	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:	J:\GC21\DATA\062420F-JP8\0624F189.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	0.00?	35697	31.71	63	50-150	OK	
o-Terphenyl	5.51	0.00?	93448	41.82	84	55-133	OK	
n-Triacontane	7.66	0.00?	72099	40.83	82	54-136	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		2135102	1,171	2340		

Prep Amount:	500 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F191.D Vial: 28
Acq On : 25 Jun 2020 8:52 pm Operator: TAP
Sample : KWG2001792-02LCS Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:22 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	35697	31.713 ppm
Spiked Amount 50.000	Recovery =		63.43%
2) S o-Terphenyl	5.51	93448	41.818 ppm
Spiked Amount 50.000	Recovery =		83.64%
3) S n-Triacontane	7.66	72099	40.834 ppm
Spiked Amount 50.000	Recovery =		81.67%
Target Compounds			
4) H C8-C18in JP-8	2.35	2135102	1171.244 ppm

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

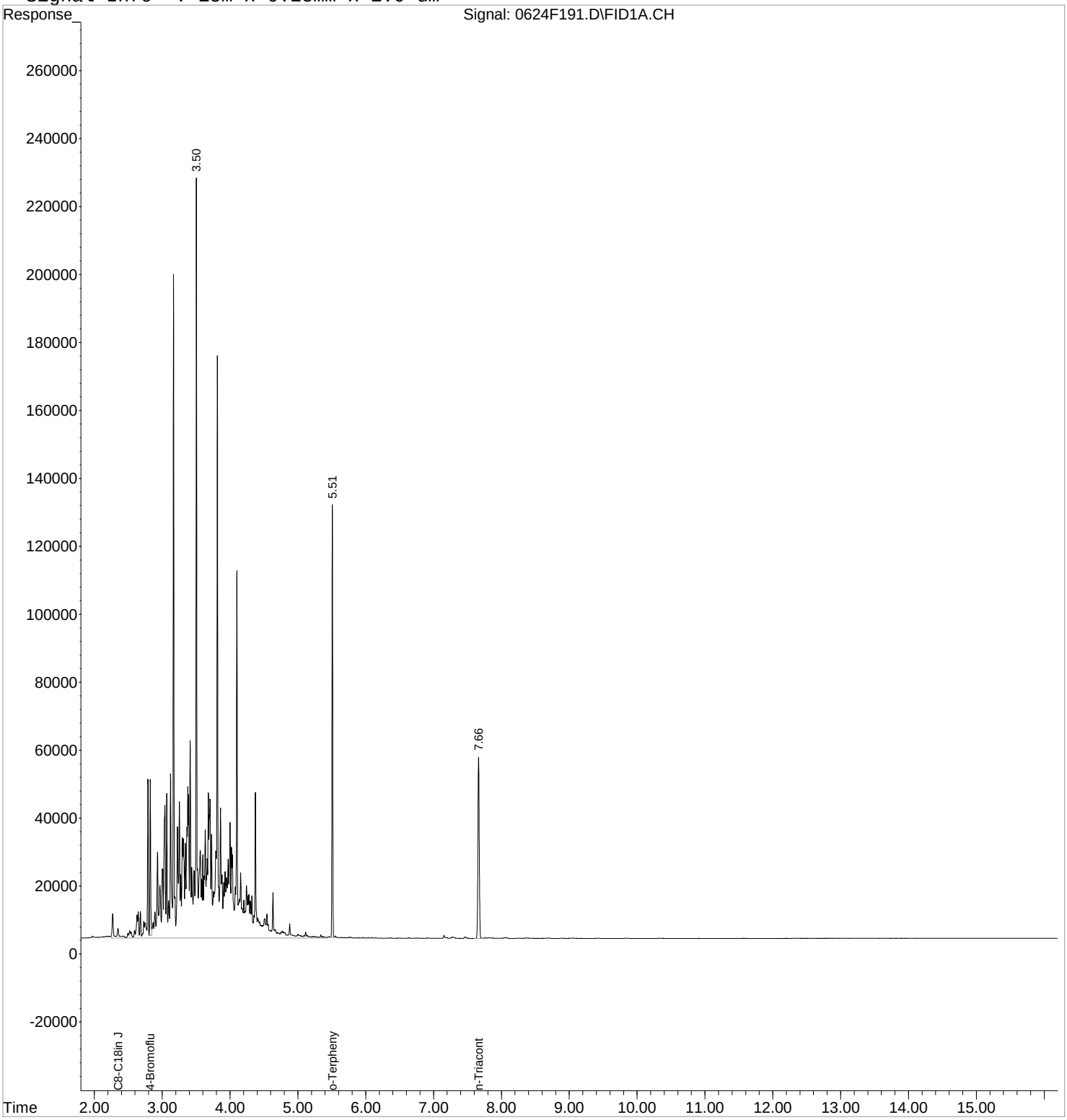
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F191.D Vial: 28
Acq On : 25 Jun 2020 8:52 pm Operator: TAP
Sample : KWG2001792-02LCS Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F190.D
Lab ID: KWG2001792-3
RunType: DLCS
Matrix: WATER

Date Acquired: 06/25/2020 20:30
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F190.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 20:30	**Quant Date:**	06/26/2020 11:58	**Vial:**	27
Run Type:	DLCS	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001792-3			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**	KWG2001792	**Report Group:**	
Analysis Method:	8015C	**Prep Method:**	EPA 3510C		
Prep Ref:	1751780	**Prep Date:**	06/25/2020		

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:	J:\GC21\DATA\062420F-JP8\0624F189.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	0.00?	33886	30.10	60	50-150	OK	
o-Terphenyl	5.51	0.00?	90661	40.57	81	55-133	OK	
n-Triacontane	7.66	0.00?	71486	40.49	81	54-136	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		2074391	1,138	2280		

Prep Amount:	500 mL	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 06/26/20
2nd 06/26/20

Quantitation Report (QT Reviewed)

Data File : J:\GC21\DATA\062420F-JP8\0624F190.D Vial: 27
Acq On : 25 Jun 2020 8:30 pm Operator: TAP
Sample : KWG2001792-03DLCS Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:21 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 4-Bromofluorobenzene	2.82	33886	30.104	ppm
Spiked Amount 50.000	Recovery =		60.21%	
2) S o-Terphenyl	5.51	90661	40.571	ppm
Spiked Amount 50.000	Recovery =		81.14%	
3) S n-Triacontane	7.66	71486	40.487	ppm
Spiked Amount 50.000	Recovery =		80.97%	
Target Compounds				
4) H C8-C18in JP-8	2.35	2074391	1137.940	ppm

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

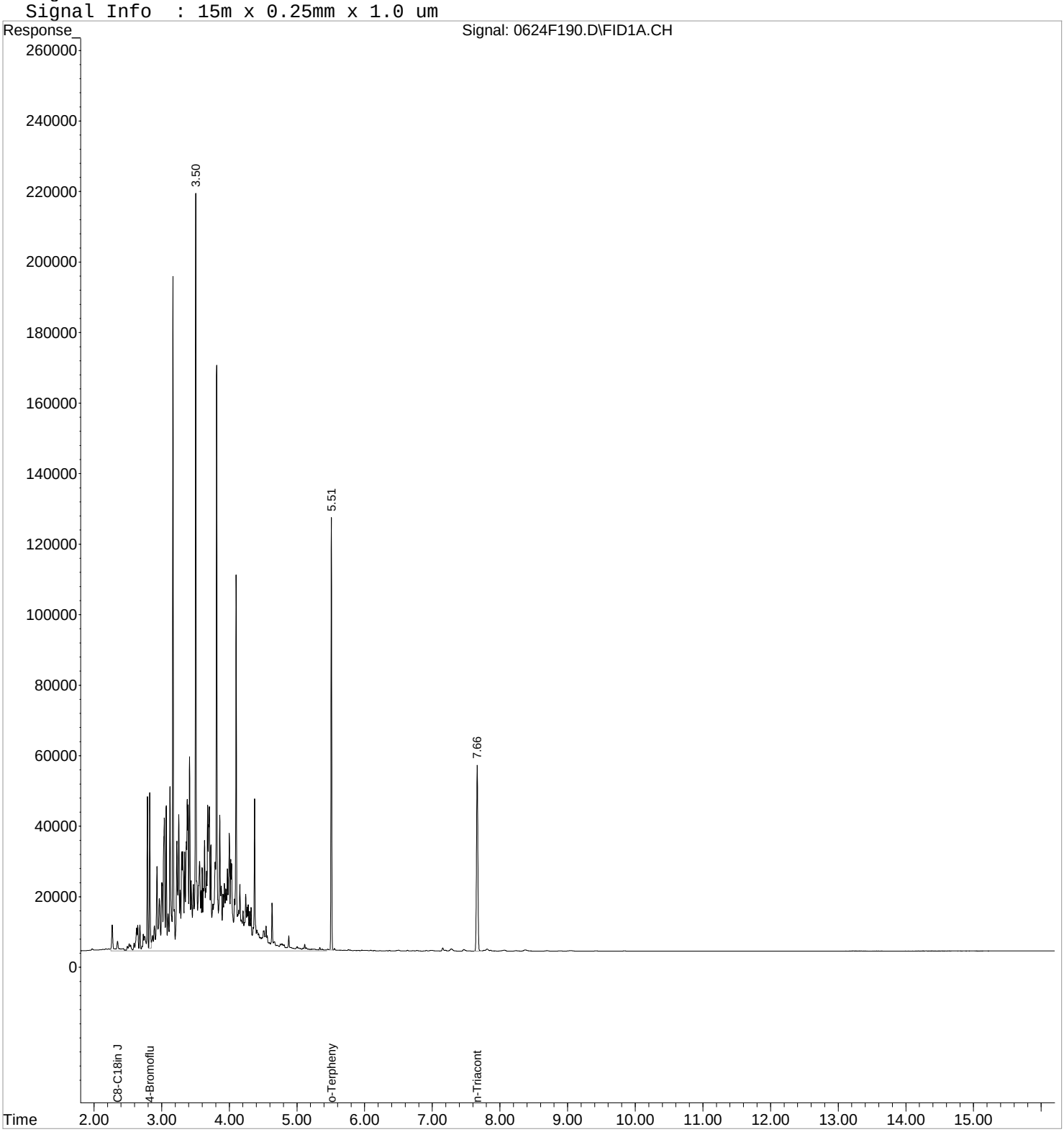
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F190.D Vial: 27
Acq On : 25 Jun 2020 8:30 pm Operator: TAP
Sample : KWG2001792-03DLCS Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F185.D
Lab ID: KWG2001830-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 19:00
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F185.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 19:00	**Quant Date:**	06/26/2020 12:07	**Vial:**	96
Run Type:	CCV	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001830-1			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001830	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	?	52260	54.60		50-150	NA	
o-Terphenyl	5.51	?	108318	56.62		55-133	NA	
n-Triacontane	7.66	?	83885	55.33		54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C9 - C24 DRO	2.80		1666829				
C10 - C25 DRO	3.17c		1626791	903.30			
C10 - C28 DRO	3.17c		1666199	894.04			
Diesel Range Organics (DRO)	3.81		1424003	946.97			
Residual Range Organics (RRO)	6.69		22209	24.26			
C25 - C44 RRO	6.90		31139				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F185.D Vial: 96
Acq On : 25 Jun 2020 7:00 pm Operator: TAP
Sample : DRO@1000 SVF02-89D Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:26 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	4-Bromofluorobenzene	2.82	52260	54.595	ppm
Spiked Amount	50.000	Recovery	=	109.19%	
2) S	o-Terphenyl	5.51	108318	56.624	ppm
Spiked Amount	50.000	Recovery	=	113.25%	
3) S	n-Triacontane	7.66	83885	55.332	ppm
Spiked Amount	50.000	Recovery	=	110.66%	
	Target Compounds				
6) H	C10-C25ex DRO [AK102]	3.17	1626791	903.297	ppm
7) H	C10-C28in DRO [8015]	3.17	1666199	894.039	ppm
8) H	C12-C25ex DRO [NWTPH]	3.81	1424003	946.971	ppm
10) H	C25-C36in RRO [NWTPH]	6.69	22209	24.261	ppm
11) H	C25-C36in RRO [AK103]	6.69	30692	34.225	ppm

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

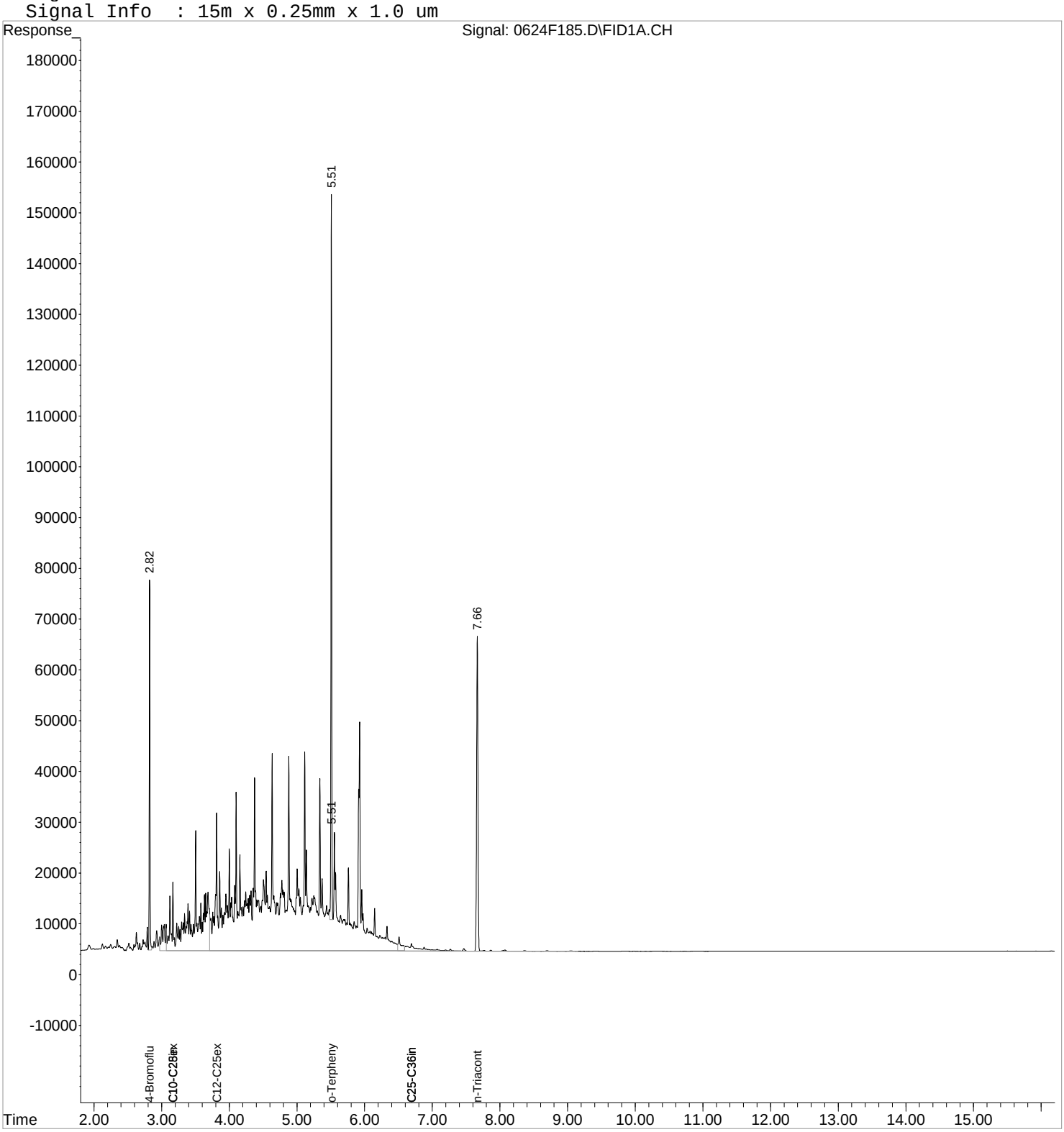
Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F185.D Vial: 96
Acq On : 25 Jun 2020 7:00 pm Operator: TAP
Sample : DRO@1000 SVF02-89D Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F195.D
Lab ID: KWG2001830-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 22:22
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F195.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 22:22	**Quant Date:**	06/26/2020 12:07	**Vial:**	96
Run Type:	CCV	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001830-3			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001830	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	?	53044	55.41		50-150	NA	
o-Terphenyl	5.51	?	109810	57.40		55-133	NA	
n-Triacontane	7.66	?	85617	56.47		54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C9 - C24 DRO	2.80		1701544				
C10 - C25 DRO	3.17c		1660511	922.02			
C10 - C28 DRO	3.17c		1697417	910.79			
Diesel Range Organics (DRO)	3.81		1455134	967.67			
Residual Range Organics (RRO)	6.69		22385	24.45			
C25 - C44 RRO	6.90		32067				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F195.D Vial: 96
Acq On : 25 Jun 2020 10:22 pm Operator: TAP
Sample : DRO@1000 SVF02-89D Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:35 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	4-Bromofluorobenzene	2.82	53044	55.414	ppm
Spiked Amount	50.000	Recovery	=	110.83%	
2) S	o-Terphenyl	5.51	109810	57.404	ppm
Spiked Amount	50.000	Recovery	=	114.81%	
3) S	n-Triacontane	7.66	85617	56.474	ppm
Spiked Amount	50.000	Recovery	=	112.95%	
	Target Compounds				
6) H	C10-C25ex DRO [AK102]	3.17	1660511	922.021	ppm
7) H	C10-C28in DRO [8015]	3.17	1697417	910.790	ppm
8) H	C12-C25ex DRO [NWTPH]	3.81	1455134	967.673	ppm
10) H	C25-C36in RRO [NWTPH]	6.69	22385	24.453	ppm
11) H	C25-C36in RRO [AK103]	6.69	30880	34.434	ppm

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

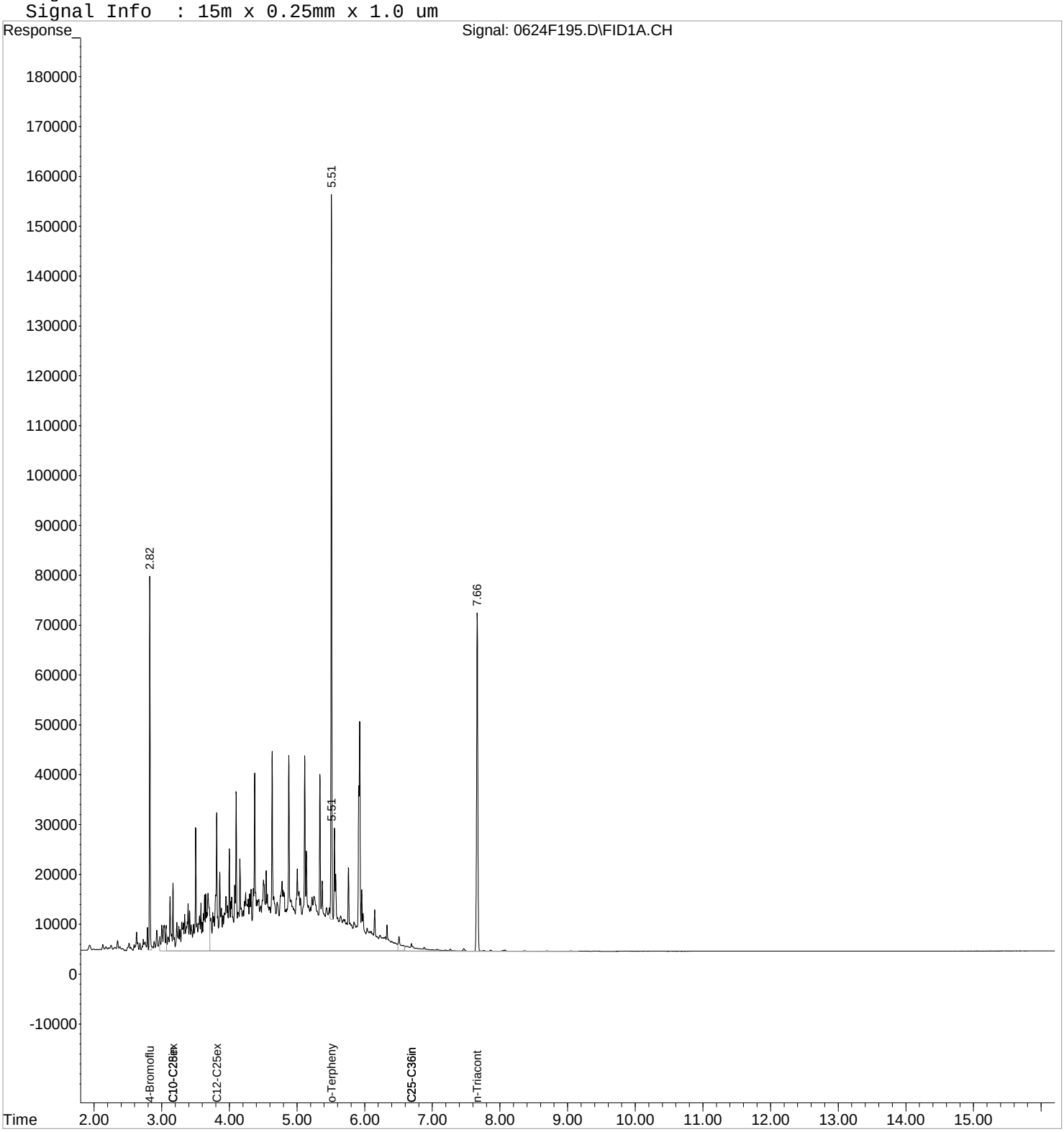
Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F195.D Vial: 96
Acq On : 25 Jun 2020 10:22 pm Operator: TAP
Sample : DRO@1000 SVF02-89D Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F187.D
Lab ID: KWG2001831-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 19:22
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F187.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 19:22	**Quant Date:**	06/26/2020 11:58	**Vial:**	25
Run Type:	CCV	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001831-1			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	?	53004	47.09		50-150	NA	
o-Terphenyl	5.51	?	105505	47.21		55-133	NA	
n-Triacontane	7.66	?	85853	48.62		54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		1628383	893.28			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F187.D Vial: 25
Acq On : 25 Jun 2020 7:22 pm Operator: TAP
Sample : 8015C JP-8@1000 SVF02-88K Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:20 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 4-Bromofluorobenzene	2.82	53004	47.088	ppm
Spiked Amount 50.000	Recovery =		94.18%	
2) S o-Terphenyl	5.51	105505	47.214	ppm
Spiked Amount 50.000	Recovery =		94.43%	
3) S n-Triacontane	7.66	85853	48.624	ppm
Spiked Amount 50.000	Recovery =		97.25%	
Target Compounds				
4) H C8-C18in JP-8	2.35	1628383	893.275	ppm

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

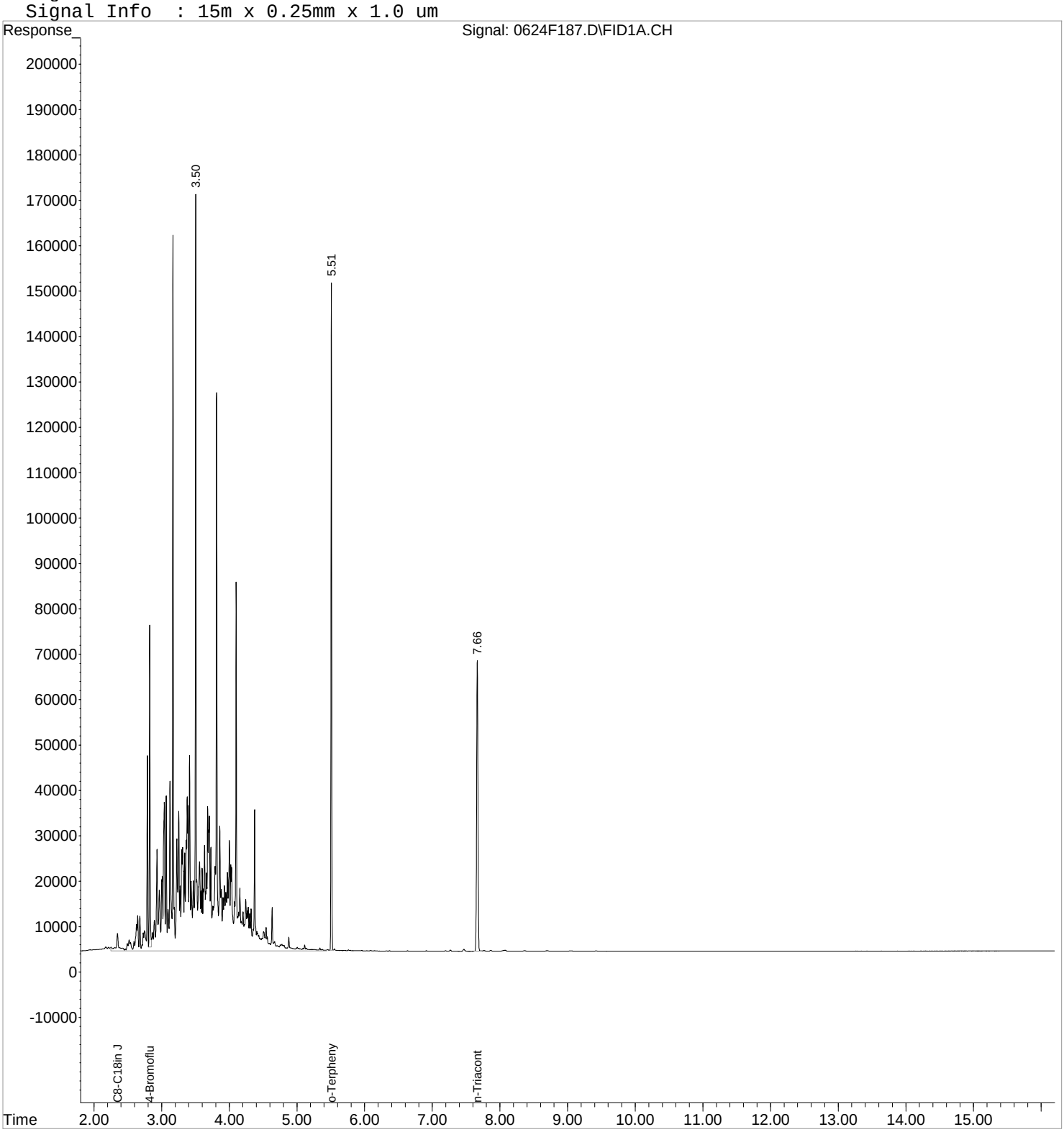
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F187.D Vial: 25
Acq On : 25 Jun 2020 7:22 pm Operator: TAP
Sample : 8015C JP-8@1000 SVF02-88K Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F196.D
Lab ID: KWG2001831-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 22:45
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F196.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 22:45	**Quant Date:**	06/26/2020 11:58	**Vial:**	25
Run Type:	CCV	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001831-3			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene	2.82	?	55430	49.24		50-150	NA	
o-Terphenyl	5.51	?	109962	49.21		55-133	NA	
n-Triacontane	7.66	?	87401	49.50		54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		1696542	930.67			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F196.D Vial: 25
Acq On : 25 Jun 2020 10:45 pm Operator: TAP
Sample : 8015C JP-8@1000 SVF02-88K Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:24 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 4-Bromofluorobenzene	2.82	55430	49.244	ppm
Spiked Amount 50.000	Recovery =		98.49%	
2) S o-Terphenyl	5.51	109962	49.208	ppm
Spiked Amount 50.000	Recovery =		98.42%	
3) S n-Triacontane	7.66	87401	49.501	ppm
Spiked Amount 50.000	Recovery =		99.00%	
Target Compounds				
4) H C8-C18in JP-8	2.35	1696542	930.665	ppm

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

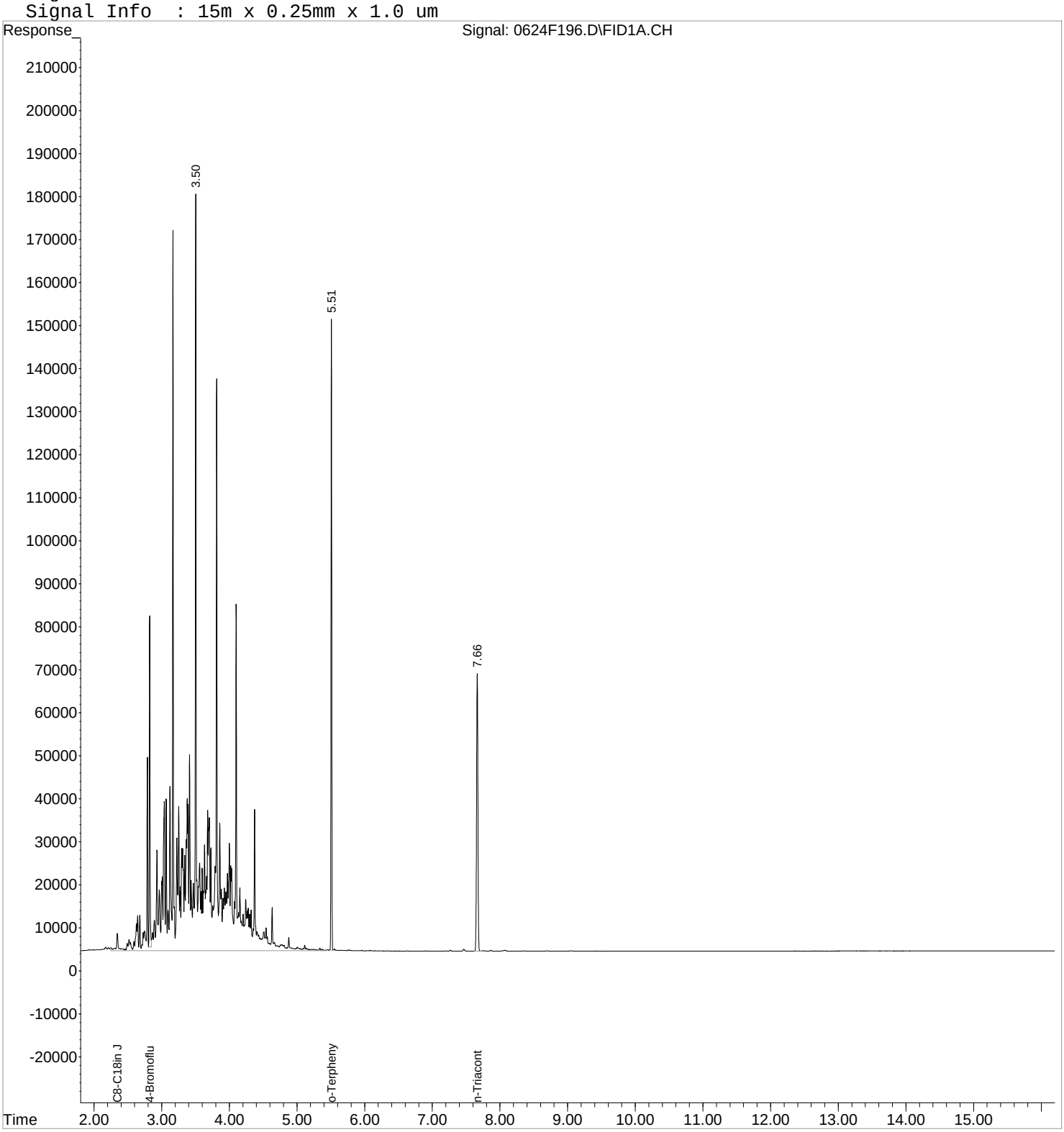
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F196.D Vial: 25
Acq On : 25 Jun 2020 10:45 pm Operator: TAP
Sample : 8015C JP-8@1000 SVF02-88K Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F188.D
Lab ID: KWG2001830-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 19:45
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F188.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 19:45	**Quant Date:**	06/26/2020 12:07	**Vial:**	90
Run Type:	IB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001830-2			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001830	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene			0			50-150	NA	
o-Terphenyl			0			55-133	NA	
n-Triacontane			0			54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C9 - C24 DRO	2.80		15595				
C10 - C25 DRO	3.17c		13848	7.69<MRL			
C10 - C28 DRO	3.17c		16887	9.06			
Diesel Range Organics (DRO)	3.81		8018	5.33			
Residual Range Organics (RRO)	6.69		9097	9.94			
C25 - C44 RRO	6.90		17674				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F188.D Vial: 90
Acq On : 25 Jun 2020 7:45 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:28 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
6)	H C10-C25ex DRO [AK102]	3.17	13848	7.689	ppm
7)	H C10-C28in DRO [8015]	3.17	16887	9.061	ppm
8)	H C12-C25ex DRO [NWTPH]	3.81	8018	5.332	ppm
10)	H C25-C36in RRO [NWTPH]	6.69	9097	9.938	ppm
11)	H C25-C36in RRO [AK103]	6.69	9266	10.333	ppm

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

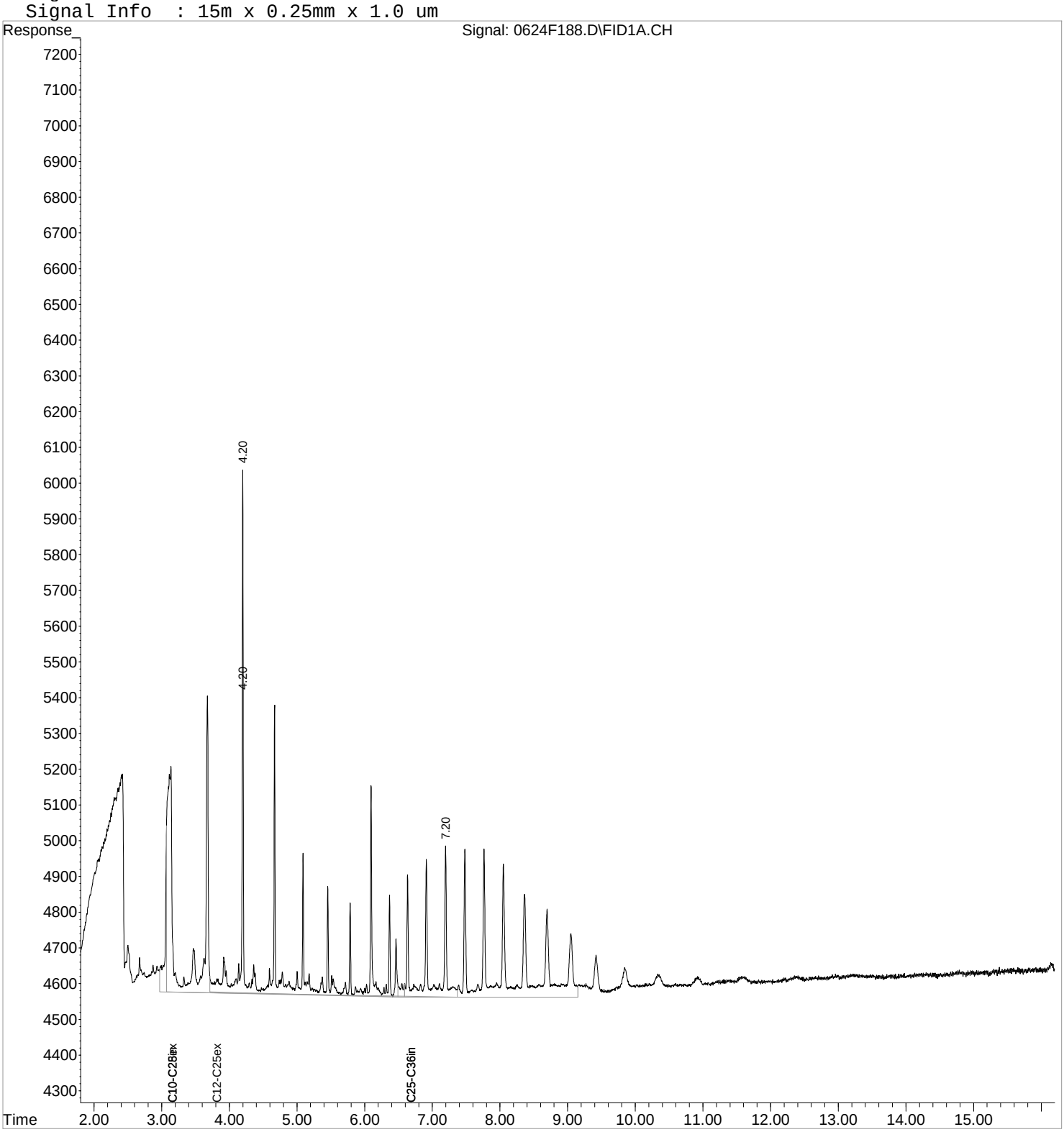
Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F188.D Vial: 90
Acq On : 25 Jun 2020 7:45 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F188.D
Lab ID: KWG2001830-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 19:45
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F188.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 19:45	**Quant Date:**	06/26/2020 12:07	**Vial:**	90
Run Type:	IB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001830-2			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001830	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene			0			50-150	NA	
o-Terphenyl			0			55-133	NA	
n-Triacontane			0			54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C9 - C24 DRO	2.80		15595				
C10 - C25 DRO	3.17c		13848	7.69<MRL			
C10 - C28 DRO	3.17c		16887	9.06			
Diesel Range Organics (DRO)	3.81		8018	5.33			
Residual Range Organics (RRO)	6.69		9097	9.94			
C25 - C44 RRO	6.90		17674				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F188.D Vial: 90
Acq On : 25 Jun 2020 7:45 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:28 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
6)	H C10-C25ex DRO [AK102]	3.17	13848	7.689	ppm
7)	H C10-C28in DRO [8015]	3.17	16887	9.061	ppm
8)	H C12-C25ex DRO [NWTPH]	3.81	8018	5.332	ppm
10)	H C25-C36in RRO [NWTPH]	6.69	9097	9.938	ppm
11)	H C25-C36in RRO [AK103]	6.69	9266	10.333	ppm

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

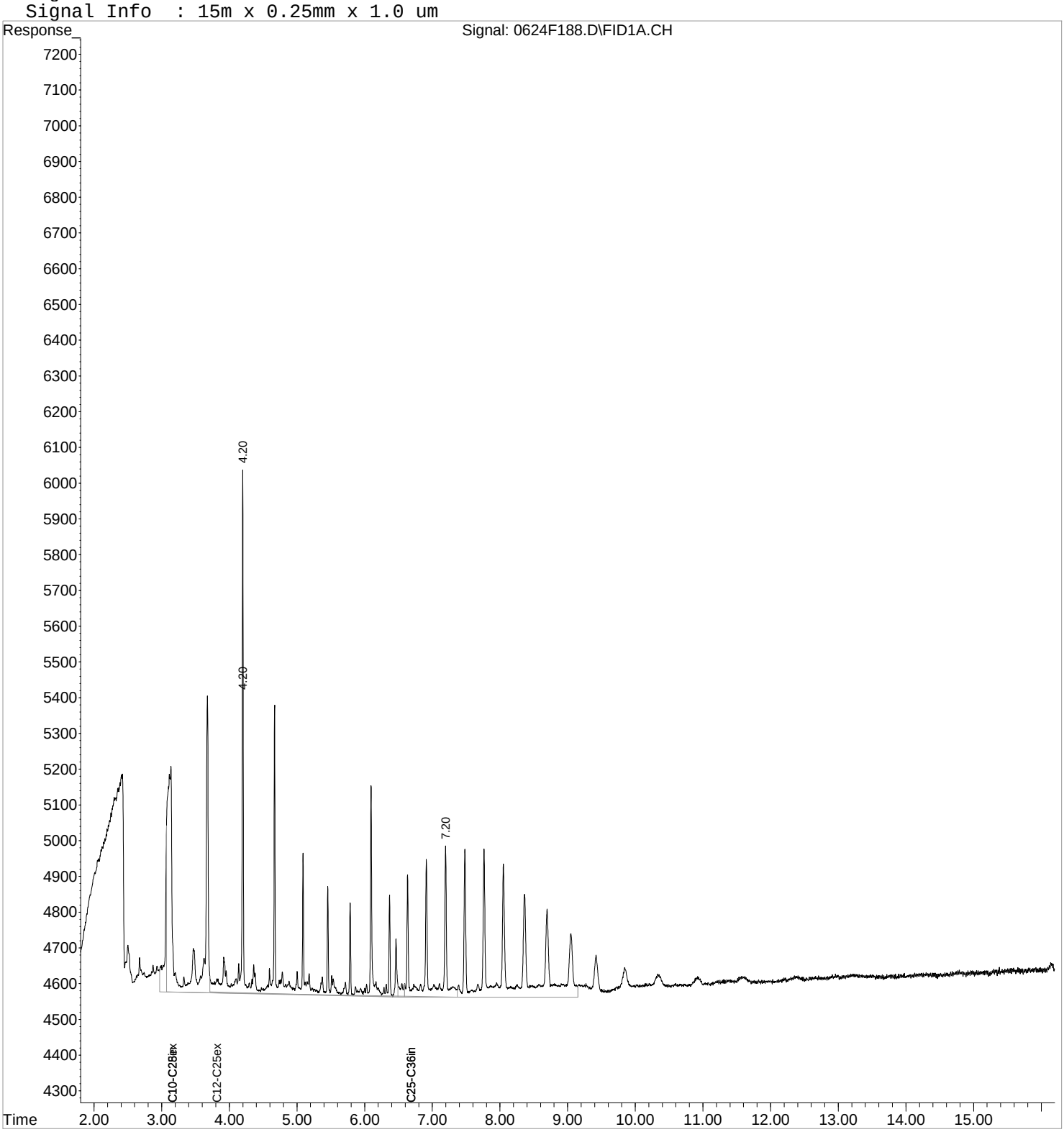
Quantitation Report (Not Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F188.D Vial: 90
Acq On : 25 Jun 2020 7:45 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F197.D
Lab ID: KWG2001830-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 23:07
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F197.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 23:07	**Quant Date:**	06/26/2020 12:07	**Vial:**	90
Run Type:	IB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001830-4			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001830	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene			0			50-150	NA	
o-Terphenyl			0			55-133	NA	
n-Triacontane			0			54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C9 - C24 DRO	2.80		12684				
C10 - C25 DRO	3.17c		11298	6.27	<MRL		
C10 - C28 DRO	3.17c		14055	7.54			
Diesel Range Organics (DRO)	3.81		7161	4.76			
Residual Range Organics (RRO)	6.69		8204	8.96			
C25 - C44 RRO	6.90		16646				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F197.D Vial: 90
Acq On : 25 Jun 2020 11:07 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:37 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
6) H	C10-C25ex DRO [AK102]	3.17	11298	6.273 ppm
7) H	C10-C28in DRO [8015]	3.17	14055	7.542 ppm
8) H	C12-C25ex DRO [NWTPH]	3.81	7161	4.762 ppm
10) H	C25-C36in RRO [NWTPH]	6.69	8204	8.962 ppm
11) H	C25-C36in RRO [AK103]	6.69	8360	9.322 ppm

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

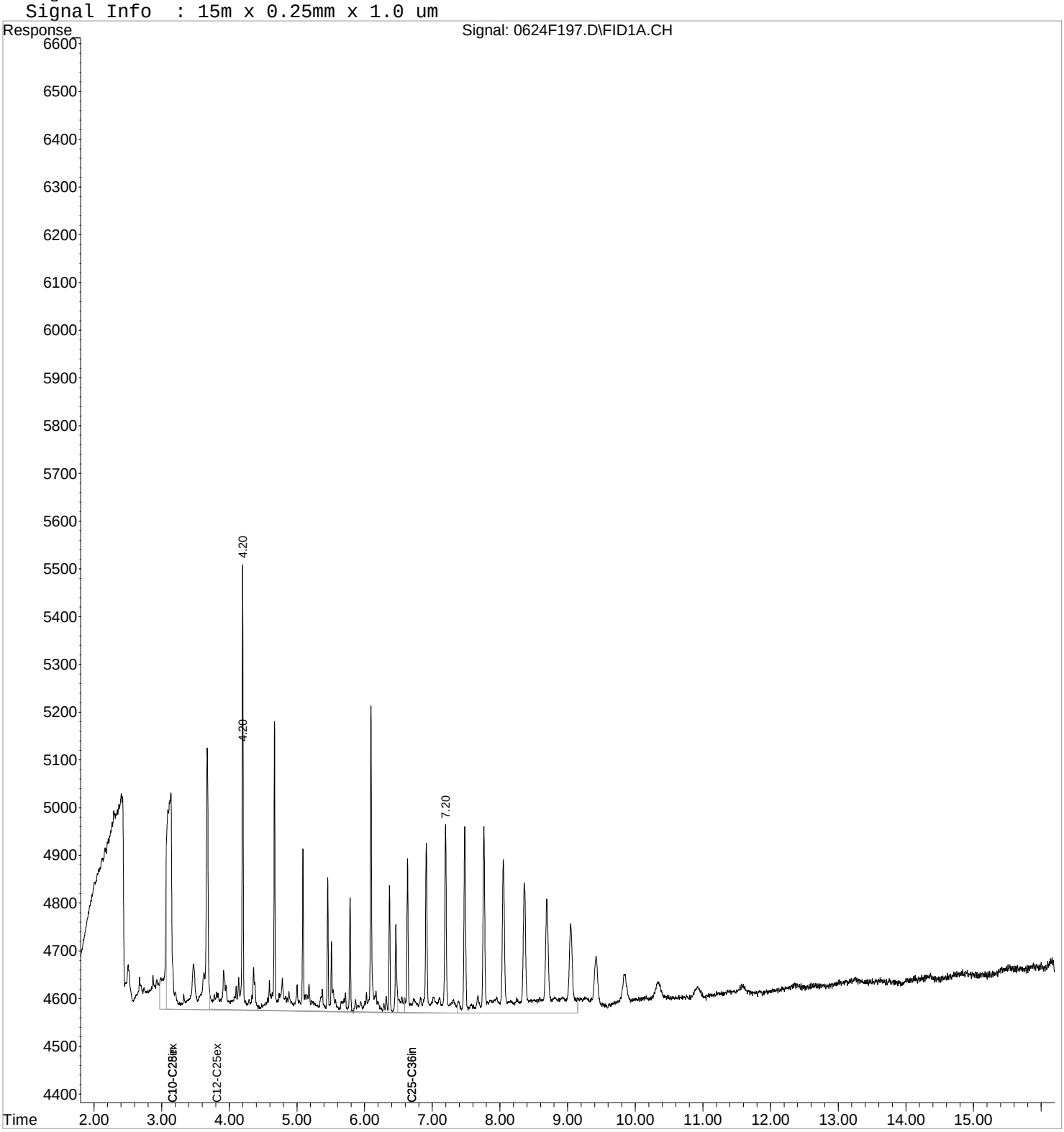
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F197.D Vial: 90
Acq On : 25 Jun 2020 11:07 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-DRO\0624F197.D
Lab ID: KWG2001830-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 23:07
Date Quantitated: 06/26/2020 12:07
Batch ID: KWG2001830
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-DRO\0624F197.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 23:07	**Quant Date:**	06/26/2020 12:07	**Vial:**	90
Run Type:	IB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001830-4			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001830	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\102119F.M	**Calibration ID:**	CAL16158
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene			0			50-150	NA	
o-Terphenyl			0			55-133	NA	
n-Triacontane			0			54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
C9 - C24 DRO	2.80		12684				
C10 - C25 DRO	3.17c		11298	6.27	<MRL		
C10 - C28 DRO	3.17c		14055	7.54			
Diesel Range Organics (DRO)	3.81		7161	4.76			
Residual Range Organics (RRO)	6.69		8204	8.96			
C25 - C44 RRO	6.90		16646				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F197.D Vial: 90
Acq On : 25 Jun 2020 11:07 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07:37 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
6) H	C10-C25ex DRO [AK102]	3.17	11298	6.273 ppm
7) H	C10-C28in DRO [8015]	3.17	14055	7.542 ppm
8) H	C12-C25ex DRO [NWTPH]	3.81	7161	4.762 ppm
10) H	C25-C36in RRO [NWTPH]	6.69	8204	8.962 ppm
11) H	C25-C36in RRO [AK103]	6.69	8360	9.322 ppm

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

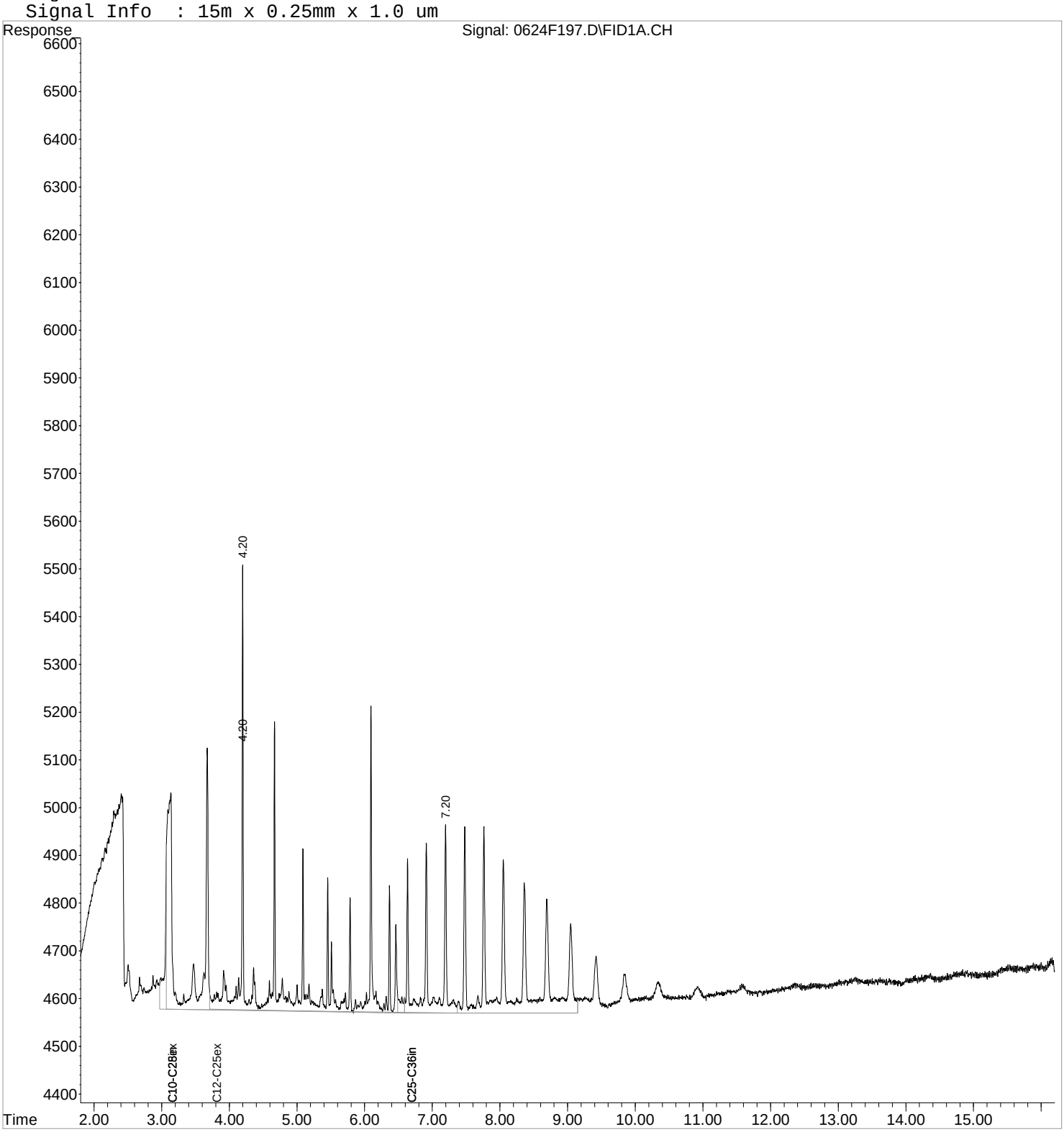
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-DRO\0624F197.D Vial: 90
Acq On : 25 Jun 2020 11:07 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 12:07 2020 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Jun 26 12:07:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F188.D
Lab ID: KWG2001831-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 19:45
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F188.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 19:45	**Quant Date:**	06/26/2020 11:58	**Vial:**	90
Run Type:	IB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001831-2			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene			0			50-150	NA	
o-Terphenyl			0			55-133	NA	
n-Triacontane			0			54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		17902	9.82	<MRL		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F188.D Vial: 90
Acq On : 25 Jun 2020 7:45 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:20 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
4) H C8-C18in JP-8	2.35	17902	9.820 ppm

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

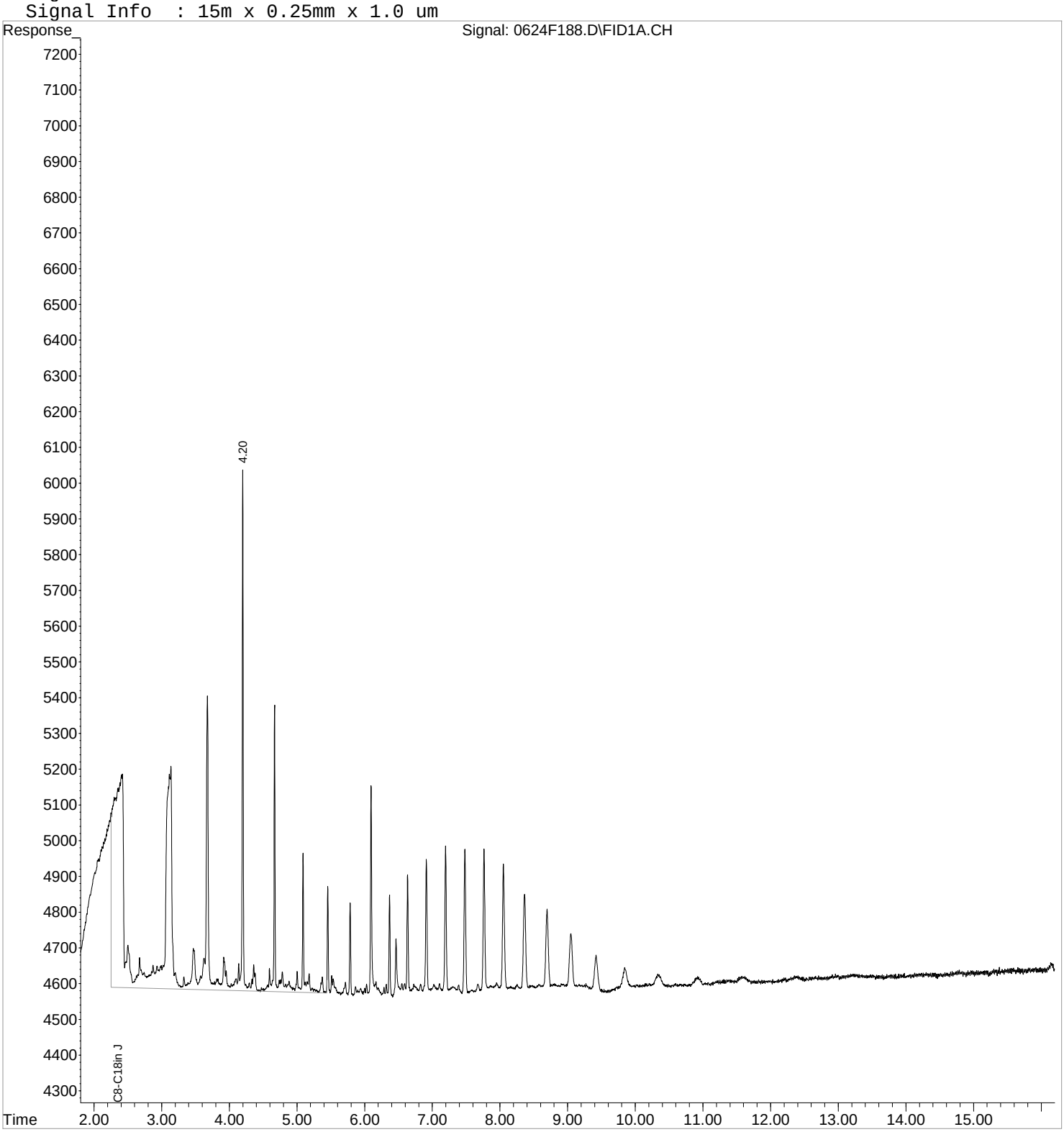
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F188.D Vial: 90
Acq On : 25 Jun 2020 7:45 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



1st 06/26/20
2nd 06/26/20

Exception Report

Data File: J:\GC21\DATA\062420F-JP8\0624F197.D
Lab ID: KWG2001831-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/25/2020 23:07
Date Quantitated: 06/26/2020 11:58
Batch ID: KWG2001831
Analysis Method: 8015C
MethodJoinID: MJ745

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

1st 06/26/20
2nd 06/26/20

Quantitation Report

Data File:	J:\GC21\DATA\062420F-JP8\0624F197.D			**Instrument:**	GC21
Acqu Date:	06/25/2020 23:07	**Quant Date:**	06/26/2020 11:58	**Vial:**	90
Run Type:	IB	**MethodJoinID:**	MJ745	**Dilution:**	1.0
Lab ID:	KWG2001831-4			**Soln Conc. Units:**	ppm

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8015C DRO	**Collect Date:**		**Receive Date:**	06/26/2020

Analysis Lot:	KWG2001831	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC21\METHODS\062520FJP8.M	**Calibration ID:**	CAL16321
Title:			
		Method ID:	MJ745
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
4-Bromofluorobenzene			0			50-150	NA	
o-Terphenyl			0			55-133	NA	
n-Triacontane			0			54-136	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
JP-8 (C8 - C18)	2.35		14014	7.69	<MRL		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F197.D Vial: 90
Acq On : 25 Jun 2020 11:07 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58:25 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
4) H C8-C18in JP-8	2.35	14014	7.688 ppm

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

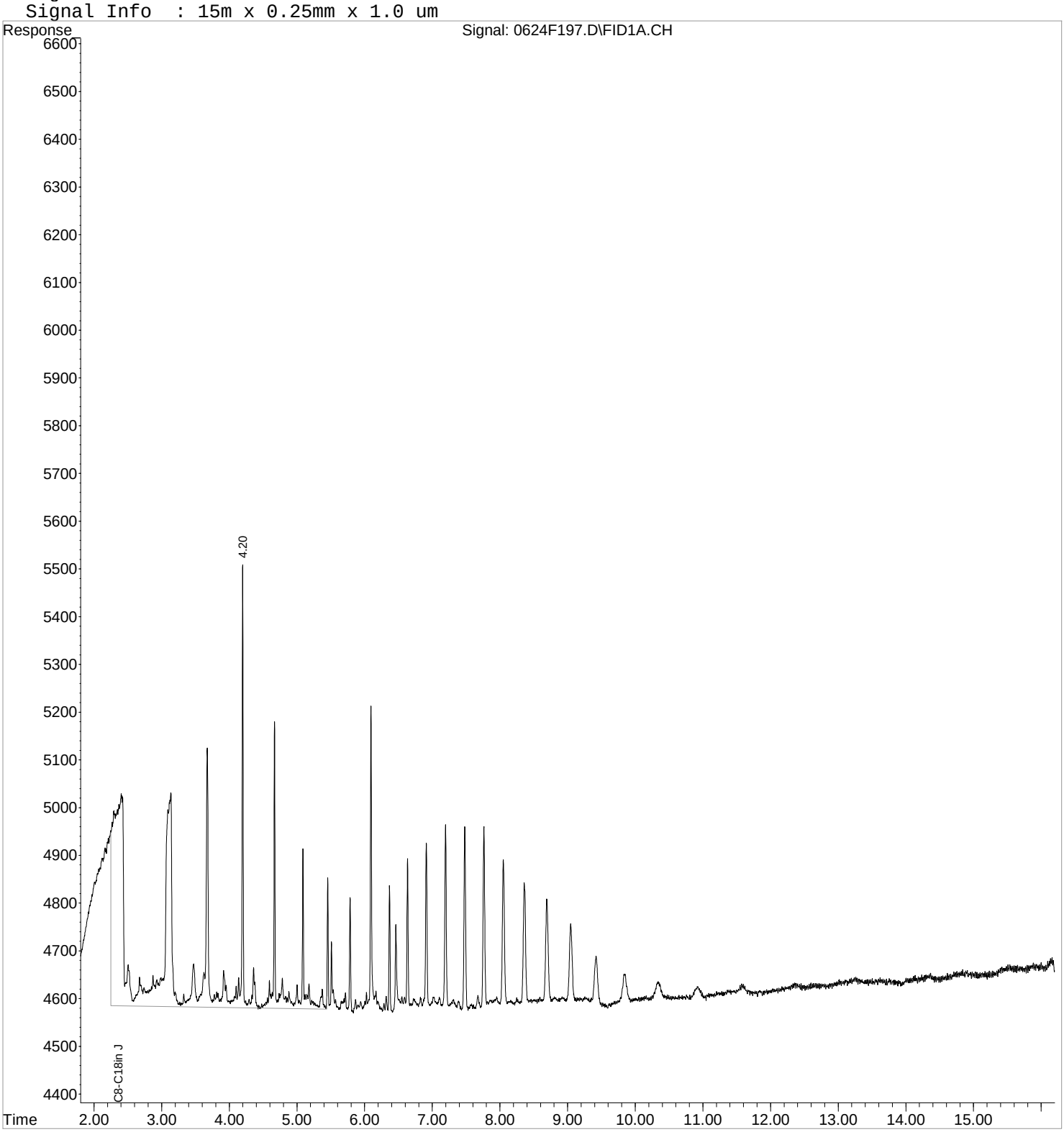
Quantitation Report (QT Reviewed)

1st 06/26/20
2nd 06/26/20

Data File : J:\GC21\DATA\062420F-JP8\0624F197.D Vial: 90
Acq On : 25 Jun 2020 11:07 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 26 11:58 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Fri Jun 26 11:57:04 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Injection Log

Directory: J:\GC21\DATA\102119F

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	99	1021F101.D	1.	MC252		10/21/22019 2:27:1
2	91	1021F102.D	1.	ALIPHATICS		10/21/22019 2:49:4
3	1	1021F103.D	1.	ICAL BLANK	CAL16158	10/21/22019 3:12:0
4	2	1021F104.D	1.	SVF02-74I 50 RRO RR		10/21/22019 3:34:4
5	3	1021F105.D	1.	SVF02-74H 200 RRO		10/21/22019 3:57:0
6	4	1021F106.D	1.	SVF02-74G 500 RRO		10/21/22019 4:19:2
7	5	1021F107.D	1.	SVF02-74F 2K RRO		10/21/22019 4:41:5
8	6	1021F108.D	1.	SVF02-74E 5K RRO		10/21/22019 5:04:1
9	1	1021F109.D	1.	IB		10/21/22019 5:26:3
10	7	1021F110.D	1.	SVF02-74J RRO ICV RR		10/21/22019 5:49:0
11	1	1021F111.D	1.	IB		10/21/22019 6:11:2
12	8	1021F112.D	1.	SVF02-76F 50 AK 103		10/21/22019 6:33:4
13	9	1021F113.D	1.	SVF02-76E 200 AK 103		10/21/22019 6:56:1
14	10	1021F114.D	1.	SVF02-76D 500 AK 103		10/21/22019 7:18:3
15	11	1021F115.D	1.	SVF02-76C 2K AK 103		10/21/22019 7:40:5
16	12	1021F116.D	1.	SVF02-76B 5K AK 103		10/21/22019 8:03:2
17	1	1021F117.D	1.	IB		10/21/22019 8:25:4
18	13	1021F118.D	1.	SVF02-76H ICV AK 103		10/21/22019 8:48:0
19	1	1021F119.D	1.	IB		10/21/22019 9:10:3
20	14	1021F120.D	1.	SVF02-75H 20/1 DRO		10/21/22019 9:32:5
21	15	1021F121.D	1.	SVF02-75G 50/2.5 DRO		10/21/22019 9:55:1
22	16	1021F122.D	1.	SVF02-75F 200/10 DRO		10/21/22019 10:17:4
23	17	1021F123.D	1.	SVF02-75E 500/25 DRO		10/21/22019 10:40:0
24	18	1021F124.D	1.	SVF02-75D 2K/100 DRO		10/21/22019 11:02:2
25	19	1021F125.D	1.	SVF02-75C 5K/250 DRO		10/21/22019 11:24:5
26	20	1021F126.D	1.	SVF02-75B 20K DRO		10/21/22019 11:47:0
27	21	1021F127.D	1.	SVF02-75A 50K DRO		10/22/22019 12:09:3
28	1	1021F128.D	1.	IB		10/22/22019 12:31:5
29	22	1021F129.D	1.	SVF02-75I ICV DRO		10/22/22019 12:54:2
30	1	1021F130.D	1.	IB		10/22/22019 1:16:4
31	90	1021F131.D	1.	IB		10/22/22019 1:39:0
32	90	1021F132.D	1.	IB		10/22/22019 2:01:2
33	90	1021F133.D	1.	IB		10/22/22019 2:23:5
34	90	1021F134.D	1.	IB		10/22/22019 2:46:1
35	90	1021F135.D	1.	IB		10/22/22019 3:08:4
36	90	1021F136.D	1.	IB		10/22/22019 3:31:0
37	90	1021F137.D	1.	IB		10/22/22019 3:53:3
38	90	1021F138.D	1.	IB		10/22/22019 4:15:5
39	90	1021F139.D	1.	IB		10/22/22019 4:38:1
40	90	1021F140.D	1.	IB		10/22/22019 5:00:3
41	90	1021F141.D	1.	IB		10/22/22019 5:22:5
42	90	1021F142.D	1.	IB		10/22/22019 5:45:2
43	90	1021F143.D	1.	IB		10/22/22019 6:07:5
44	90	1021F144.D	1.	IB		10/22/22019 6:30:1
45	90	1021F145.D	1.	IB		10/22/22019 6:52:3
46	90	1021F146.D	1.	IB		10/22/22019 7:15:0
47	90	1021F147.D	1.	IB		10/22/22019 7:37:2
48	90	1021F148.D	1.	IB		10/22/22019 7:59:4
49	90	1021F149.D	1.	IB		10/22/22019 8:22:2
50	90	1021F150.D	1.	IB		10/22/22019 8:44:4
51	90	1021F151.D	1.	IB		10/22/22019 9:07:1
52	90	1021F152.D	1.	IB		10/22/22019 9:29:4
53	90	1021F153.D	1.	IB		10/22/22019 9:52:0
54	90	1021F154.D	1.	IB		10/22/22019 10:14:3

Injection Log

Directory: J:\GC21\DATA\102419F

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	90	1024F101.D	1.	DCM		10/24/22019 7:23:5
2	90	1024F102.D	1.	DCM		10/24/22019 7:46:0
3	90	1024F103.D	1.	DCM		10/24/22019 8:08:2
4	90	1024F104.D	1.	DCM		10/24/22019 8:30:5
5	90	1024F105.D	1.	DCM		10/24/22019 8:53:2
6	90	1024F106.D	1.	DCM		10/24/22019 9:15:4
7	90	1024F107.D	1.	DCM		10/24/22019 9:38:1
8	90	1024F108.D	1.	IB		10/24/22019 10:00:3
9	90	1024F109.D	1.	IB		10/24/22019 10:23:0
10	90	1024F110.D	1.	IB		10/24/22019 10:45:3
11	90	1024F111.D	1.	IB		10/24/22019 11:08:0
12	90	1024F112.D	1.	IB		10/24/22019 11:30:3
13	90	1024F113.D	1.	IB		10/24/22019 11:53:0
14	90	1024F114.D	1.	IB		10/24/22019 12:15:3
15	90	1024F115.D	1.	IB		10/24/22019 12:38:0
16	90	1024F116.D	1.	IB		10/24/22019 1:00:3
17	99	1024F117.D	1.	MC252		10/24/22019 2:05:5
18	91	1024F118.D	1.	ALIPHATICS		10/24/22019 2:28:2
19	86	1024F119.D	1.	IB		10/24/22019 2:50:5
20	1	1024F120.D	1.	RRO SVF02-74I 50		10/24/22019 3:13:3
21	86	1024F121.D	1.	IB		10/24/22019 3:36:0
22	2	1024F122.D	1.	RRO ICV SVF02-74J		10/24/22019 3:58:2
23	90	1024F123.D	1.	IB		10/24/22019 4:21:0
24	90	1024F124.D	1.	IB		10/24/22019 4:43:3
25	90	1024F125.D	1.	IB		10/24/22019 5:06:0
26	90	1024F126.D	1.	IB		10/24/22019 5:28:3
27	90	1024F127.D	1.	IB		10/24/22019 5:51:0
28	90	1024F128.D	1.	IB		10/24/22019 6:13:3
29	90	1024F129.D	1.	IB		10/24/22019 6:36:1
30	90	1024F130.D	1.	IB		10/24/22019 6:58:4

Injection Log

Directory: J:\GC21\DATA\102519F

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	90	1025F101.D	1.	DCM		10/25/22019 6:50:4
2	90	1025F102.D	1.	DCM		10/25/22019 7:12:5
3	90	1025F103.D	1.	DCM		10/25/22019 7:35:2
4	90	1025F104.D	1.	DCM		10/25/22019 7:57:5
5	90	1025F105.D	1.	DCM		10/25/22019 8:20:1
6	90	1025F106.D	1.	DCM		10/25/22019 8:42:4
7	99	1025F107.D	1.	MC252		10/25/22019 9:48:0
8	91	1025F108.D	1.	ALIPHATICS		10/25/22019 10:10:3
9	86	1025F109.D	1.	ICAL BLANK		10/25/22019 10:33:0
10	1	1025F110.D	1.	RRO ICV 74J		10/25/22019 10:55:3

ALS-Kelso
Initial Calibration Checklist GC

Method: MJ257
ICAL ID or Date: CAL16158
Instrument: GC-21

Primary	Secondary	
☒	☐	The new ICAL is saved with a unique ID.
☒	☐	ICAL was performed continuously (i.e. not interrupted by maintenance event).
☒	☐	All analytes in blank are < ½ MRL.
☒	☐	ICAL contains minimum number of concentrations.
☒	☐	No internal levels excluded for any analytes.
☒	☐	Retention times updated using a midpoint of the calibration. Secondary reviewer double check peak IDs.
☒	☐	Calibration files quantitated with new method.
☒	☐	Check integrations. Primary reviewer must check all integrations electronically. Secondary reviewer will check low point and high point electronically.
☒	☐	ICAL files added to calibration table.
☒	☐	The average RF or COD meets method criteria for all analytes.
☒	☐	ICV is quantitated against new ICAL.
☒	☐	ICV meets method criteria.
☒	☐	Linked in Stealth to an appropriate method. An appropriate method will be one that contains all analytes that were analyzed.
☒	☐	All calibration reports included: ICAL SUMMARY, ICAL DETAILED, ICV SUMMARY.
☒	☐	Enviroquant/Target responses match those in Stealth.
☒	☐	All quant reports and manual integrations initialed and dated.

Data packet should be in the following order: Sequence log, Calibration Review, Stealth ICAL reports, and quant reports.

Primary: _____ Date: 10/25/19

Secondary: _____ Date: 10/25/19

Initial Calibration - Summary Report

Calibration ID:	CAL16158	**Instrument ID:**	GC21
Method ID:	MJ257	**Column Name:**	ZB-1

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
4-Bromofluorobenzene	SURR	AverageRF		9.6E+2	20	7.6			NA	
o-Terphenyl	SURR	AverageRF		1.9E+3	20	7.1			NA	
n-Triacontane	SURR	AverageRF		1.5E+3	20	9.2			NA	
C10 - C25 DRO	MS	AverageRF		1.8E+3	20	10.3			OK	
Diesel Range Organics	MS	AverageRF		1.9E+3	20	10.7			OK	
Diesel Range Organics (DRO)	MS	AverageRF		1.5E+3	20	8.6			OK	
Residual Range Organics (RRO)	MS	AverageRF		9.2E+2	20	8.5			OK	
C25 - C36 RRO	MS	AverageRF		9.0E+2	20	11.7			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL16158	**Instrument ID:**	GC21
Method ID:	MJ257	**Column Name:**	ZB-1
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	290429	J:\GC21\DATA\102119F\1021F105.D	10/21/2019 15:57	10/23/2019 15:17	10/24/2019 09:18
2	290430	J:\GC21\DATA\102119F\1021F106.D	10/21/2019 16:19	10/23/2019 15:20	10/24/2019 09:18
3	290431	J:\GC21\DATA\102119F\1021F107.D	10/21/2019 16:41	10/23/2019 15:21	10/24/2019 09:18
4	290432	J:\GC21\DATA\102119F\1021F108.D	10/21/2019 17:04	10/23/2019 15:21	10/24/2019 09:18
5	290433	J:\GC21\DATA\102119F\1021F112.D	10/21/2019 18:33	10/24/2019 07:36	10/24/2019 09:18
6	290434	J:\GC21\DATA\102119F\1021F113.D	10/21/2019 18:56	10/24/2019 07:47	10/24/2019 09:18
7	290435	J:\GC21\DATA\102119F\1021F114.D	10/21/2019 19:18	10/24/2019 08:12	10/24/2019 09:18
8	290436	J:\GC21\DATA\102119F\1021F115.D	10/21/2019 19:40	10/24/2019 08:16	10/24/2019 09:18
9	290437	J:\GC21\DATA\102119F\1021F116.D	10/21/2019 20:03	10/24/2019 08:17	10/24/2019 09:18
10	290439	J:\GC21\DATA\102119F\1021F120.D	10/21/2019 21:32	10/24/2019 08:36	10/24/2019 09:18
11	290440	J:\GC21\DATA\102119F\1021F121.D	10/21/2019 21:55	10/24/2019 08:38	10/24/2019 09:18
12	290441	J:\GC21\DATA\102119F\1021F122.D	10/21/2019 22:17	10/24/2019 08:41	10/24/2019 09:18
13	290442	J:\GC21\DATA\102119F\1021F123.D	10/21/2019 22:40	10/24/2019 08:42	10/24/2019 09:18
14	290443	J:\GC21\DATA\102119F\1021F124.D	10/21/2019 23:02	10/24/2019 08:44	10/24/2019 09:18
15	290444	J:\GC21\DATA\102119F\1021F125.D	10/21/2019 23:24	10/24/2019 08:45	10/24/2019 09:18
16	290445	J:\GC21\DATA\102119F\1021F126.D	10/21/2019 23:47	10/24/2019 08:46	10/24/2019 09:18
17	290446	J:\GC21\DATA\102119F\1021F127.D	10/22/2019 00:09	10/24/2019 08:50	10/24/2019 09:18
18	290448	J:\GC21\DATA\102419F\1024F120.D	10/24/2019 15:13	10/25/2019 06:43	10/25/2019 07:35

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
4-Bromofluorobenzene							10	1.1E+3	11	9.9E+2	12	9.6E+2	9.6E+2	7.6
	13	9.5E+2	14	9.1E+2	15	8.6E+2								
o-Terphenyl							10	2.1E+3	11	2.0E+3	12	1.9E+3	1.9E+3	7.1
	13	1.9E+3	14	1.8E+3	15	1.7E+3								
n-Triacontane							10	1.7E+3	11	1.5E+3	12	1.6E+3	1.5E+3	9.2
	13	1.4E+3	14	1.5E+3	15	1.3E+3								
C10 - C25 DRO							10	2.1E+3	11	2.0E+3	12	1.9E+3	1.8E+3	10.3
	13	1.9E+3	14	1.7E+3	15	1.7E+3	16	1.6E+3	17	1.6E+3				
Diesel Range Organics							10	2.1E+3	11	2.1E+3	12	1.9E+3	1.9E+3	10.7
	13	2.0E+3	14	1.8E+3	15	1.7E+3	16	1.6E+3	17	1.6E+3				
Diesel Range Organics (DRO)							10	1.6E+3	11	1.6E+3	12	1.6E+3	1.5E+3	8.6
	13	1.6E+3	14	1.5E+3	15	1.4E+3	16	1.3E+3	17	1.3E+3				
Residual Range Organics (RRO)	1	9.9E+2	2	9.2E+2	3	8.6E+2	4	8.2E+2					9.2E+2	8.5
											18	9.9E+2		
C25 - C36 RRO									5	1.1E+3	6	9.1E+2	9.0E+2	11.7
	7	8.7E+2	8	8.4E+2	9	8.0E+2								

Initial Calibration - Detailed Report

Calibration ID: CAL16158
Method ID: MJ257
Instrument ID: GC21
Column Name: ZB-1

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	290429	J:\GC21\DATA\102119F\1021F105.D	10/21/2019 15:57	10/23/2019 15:17	10/24/2019 09:18
2	290430	J:\GC21\DATA\102119F\1021F106.D	10/21/2019 16:19	10/23/2019 15:20	10/24/2019 09:18
3	290431	J:\GC21\DATA\102119F\1021F107.D	10/21/2019 16:41	10/23/2019 15:21	10/24/2019 09:18
4	290432	J:\GC21\DATA\102119F\1021F108.D	10/21/2019 17:04	10/23/2019 15:21	10/24/2019 09:18
5	290433	J:\GC21\DATA\102119F\1021F112.D	10/21/2019 18:33	10/24/2019 07:36	10/24/2019 09:18
6	290434	J:\GC21\DATA\102119F\1021F113.D	10/21/2019 18:56	10/24/2019 07:47	10/24/2019 09:18
7	290435	J:\GC21\DATA\102119F\1021F114.D	10/21/2019 19:18	10/24/2019 08:12	10/24/2019 09:18
8	290436	J:\GC21\DATA\102119F\1021F115.D	10/21/2019 19:40	10/24/2019 08:16	10/24/2019 09:18
9	290437	J:\GC21\DATA\102119F\1021F116.D	10/21/2019 20:03	10/24/2019 08:17	10/24/2019 09:18
10	290439	J:\GC21\DATA\102119F\1021F120.D	10/21/2019 21:32	10/24/2019 08:36	10/24/2019 09:18
11	290440	J:\GC21\DATA\102119F\1021F121.D	10/21/2019 21:55	10/24/2019 08:38	10/24/2019 09:18
12	290441	J:\GC21\DATA\102119F\1021F122.D	10/21/2019 22:17	10/24/2019 08:41	10/24/2019 09:18
13	290442	J:\GC21\DATA\102119F\1021F123.D	10/21/2019 22:40	10/24/2019 08:42	10/24/2019 09:18
14	290443	J:\GC21\DATA\102119F\1021F124.D	10/21/2019 23:02	10/24/2019 08:44	10/24/2019 09:18
15	290444	J:\GC21\DATA\102119F\1021F125.D	10/21/2019 23:24	10/24/2019 08:45	10/24/2019 09:18
16	290445	J:\GC21\DATA\102119F\1021F126.D	10/21/2019 23:47	10/24/2019 08:46	10/24/2019 09:18
17	290446	J:\GC21\DATA\102119F\1021F127.D	10/22/2019 00:09	10/24/2019 08:50	10/24/2019 09:18
18	290448	J:\GC21\DATA\102419F\1024F120.D	10/24/2019 15:13	10/25/2019 06:43	10/25/2019 07:35

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
4-Bromofluorobenzene												
	10	1	1.121	12.1	11	2.5	2.595	3.8	12	10	10.04	0.4
	13	25	24.71	-1.2	14	100	95.16	-4.8	15	250	224.2	-10.3
o-Terphenyl												
	10	1	1.096	9.6	11	2.5	2.603	4.1	12	10	10.14	1.4
	13	25	25.12	0.5	14	100	95.23	-4.8	15	250	222.9	-10.8
n-Triacontane												
	10	1	1.146	14.6	11	2.5	2.509	0.3	12	10	10.40	4.0
	13	25	23.75	-5.0	14	100	98.95	-1.0	15	250	217.6	-12.9
C10 - C25 DRO												
	10	20	22.81	14.0	11	50	55.40	10.8	12	200	205.7	2.9
	13	500	534.7	6.9	14	2000	1939	-3.0	15	5000	4682	-6.4
	16	20000	17280	-13.6	17	50000	44190	-11.6				

Initial Calibration - Detailed Report

Calibration ID: CAL16158
Method ID: MJ257
Instrument ID: GC21
Column Name: ZB-1

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Diesel Range Organics												
	10	20	22.82	14.1	11	50	56.20	12.4	12	200	206.4	3.2
	13	500	533.3	6.7	14	2000	1929	-3.5	15	5000	4659	-6.8
	16	20000	17200	-14.0	17	50000	43990	-12.0				
Diesel Range Organics (DRO)												
	10	20	21.50	7.5	11	50	54.83	9.7	12	200	207.3	3.6
	13	500	542.6	8.5	14	2000	1968	-1.6	15	5000	4750	-5.0
	16	20000	17520	-12.4	17	50000	44850	-10.3				
Residual Range Organics (RRO)	1	200	216.2	8.1	2	500	503.6	0.7	3	2000	1870	-6.5
	4	5000	4472	-10.6								
									18	50	54.11	8.2
C25 - C36 RRO												
					5	50	59.58	19.2	6	200	204.0	2.0
	7	500	483.1	-3.4	8	2000	1867	-6.6	9	5000	4444	-11.1

Second Source Calibration Verification Summary

CalibrationID: CAL16158
Method ID: MJ257
DataFile Location: J:\GC21\DATA\102119F\1021F129.D

Units: mg/L
Column: ZB-1

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
C10 - C25 DRO	290447	AverageRF	25	1.8E+3	1.6E+3	-8.7	1000.00	912.8	
Diesel Range Organics	290447	AverageRF	20	1.9E+3	1.7E+3	-9.6	1000.00	904.2	
Diesel Range Organics (DRO)	290447	AverageRF	15	1.5E+3	1.4E+3	-4.1	1000.00	958.9	
Residual Range Organics (RRO)	290506	AverageRF	15	9.2E+2	8.2E+2	-10.7	1000.00	892.9	
C25 - C36 RRO	290438	AverageRF	25	9.0E+2	8.5E+2	-5.0	1000.00	950.0	

UNEMIL CHECK **Initial Calibration - Detailed Report**

Calibration ID:	CAL16158	**Instrument ID:**	GC21
Method ID:	MJ257	**Column Name:**	ZB-1
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	290429	J:\GC21\DATA\102119F\1021F105.D	10/21/2019 15:57	10/23/2019 15:17	10/24/2019 09:18
2	290430	J:\GC21\DATA\102119F\1021F106.D	10/21/2019 16:19	10/23/2019 15:20	10/24/2019 09:18
3	290431	J:\GC21\DATA\102119F\1021F107.D	10/21/2019 16:41	10/23/2019 15:21	10/24/2019 09:18
4	290432	J:\GC21\DATA\102119F\1021F108.D	10/21/2019 17:04	10/23/2019 15:21	10/24/2019 09:18
5	290433	J:\GC21\DATA\102119F\1021F112.D	10/21/2019 18:33	10/24/2019 07:36	10/24/2019 09:18
6	290434	J:\GC21\DATA\102119F\1021F113.D	10/21/2019 18:56	10/24/2019 07:47	10/24/2019 09:18
7	290435	J:\GC21\DATA\102119F\1021F114.D	10/21/2019 19:18	10/24/2019 08:12	10/24/2019 09:18
8	290436	J:\GC21\DATA\102119F\1021F115.D	10/21/2019 19:40	10/24/2019 08:16	10/24/2019 09:18
9	290437	J:\GC21\DATA\102119F\1021F116.D	10/21/2019 20:03	10/24/2019 08:17	10/24/2019 09:18
10	290439	J:\GC21\DATA\102119F\1021F120.D	10/21/2019 21:32	10/24/2019 08:36	10/24/2019 09:18
11	290440	J:\GC21\DATA\102119F\1021F121.D	10/21/2019 21:55	10/24/2019 08:38	10/24/2019 09:18
12	290441	J:\GC21\DATA\102119F\1021F122.D	10/21/2019 22:17	10/24/2019 08:41	10/24/2019 09:18
13	290442	J:\GC21\DATA\102119F\1021F123.D	10/21/2019 22:40	10/24/2019 08:42	10/24/2019 09:18
14	290443	J:\GC21\DATA\102119F\1021F124.D	10/21/2019 23:02	10/24/2019 08:44	10/24/2019 09:18
15	290444	J:\GC21\DATA\102119F\1021F125.D	10/21/2019 23:24	10/24/2019 08:45	10/24/2019 09:18
16	290445	J:\GC21\DATA\102119F\1021F126.D	10/21/2019 23:47	10/24/2019 08:46	10/24/2019 09:18
17	290446	J:\GC21\DATA\102119F\1021F127.D	10/22/2019 00:09	10/24/2019 08:50	10/24/2019 09:18
18	290448	J:\GC21\DATA\102419F\1024F120.D	10/24/2019 15:13	10/25/2019 06:43	10/25/2019 07:35

Parameter Name	# RF	# RF	# RF	# RF	# RF	# RF	Mean RF	%RSD
4-Bromofluorobenzene							9.6E+2	7.6
				10 1.1E+3	11 9.9E+2	12 9.6E+2		
	13 9.5E+2	14 9.1E+2	15 8.6E+2					
o-Terphenyl							1.9E+3	7.1
				10 2.1E+3	11 2.0E+3	12 1.9E+3		
	13 1.9E+3	14 1.8E+3	15 1.7E+3					
n-Triacontane							1.5E+3	9.2
				10 1.7E+3	11 1.5E+3	12 1.6E+3		
	13 1.4E+3	14 1.5E+3	15 1.3E+3					
C10 - C25 DRO							1.8E+3	10.3
				10 2.1E+3	11 2.0E+3	12 1.9E+3		
	13 1.9E+3	14 1.7E+3	15 1.7E+3	16 1.6E+3	17 1.6E+3			
Diesel Range Organics							1.9E+3	10.7
				10 2.1E+3	11 2.1E+3	12 1.9E+3		
	13 2.0E+3	14 1.8E+3	15 1.7E+3	16 1.6E+3	17 1.6E+3			
Diesel Range Organics (DRO)							1.5E+3	8.6#
				10 1.6E+3	11 1.6E+3	12 1.6E+3		
	13 1.6E+3	14 1.5E+3	15 1.4E+3	16 1.3E+3	17 1.3E+3			
Residual Range Organics (RRO)	1 9.9E+2	2 9.2E+2	3 8.6E+2	4 8.2E+2			9.2E+2	8.5#
						18 9.9E+2		
C25 - C36 RRO					5 1.1E+3	6 9.1E+2	9.0E+2	11.7
	7 8.7E+2	8 8.4E+2	9 8.0E+2					

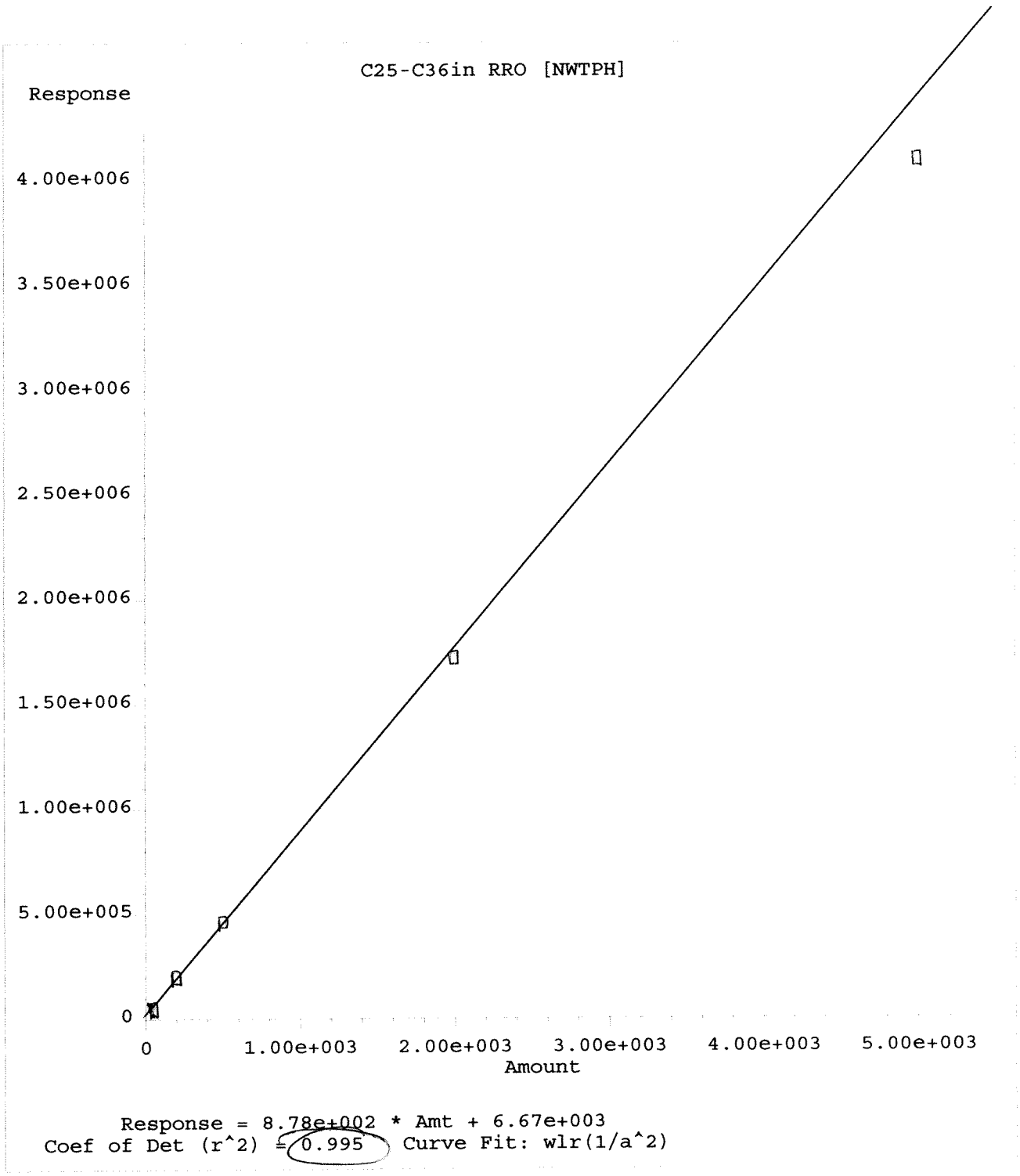
 # RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Initial Calibration - Detailed Report

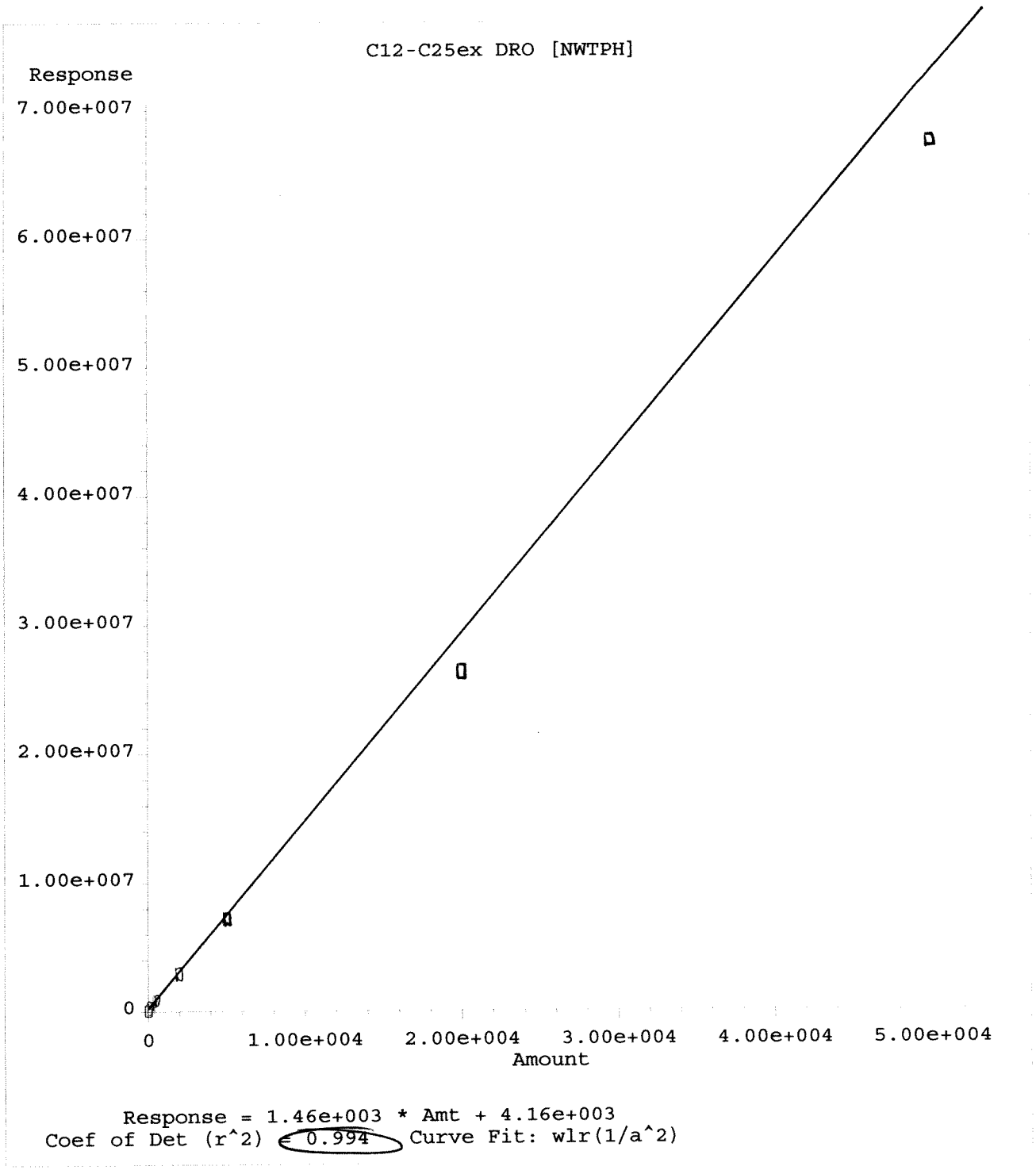
Calibration ID:	CAL16158	**Instrument ID:**	GC21
Method ID:	MJ257	**Column Name:**	ZB-1
		Calibration Fit:	Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
290429	J:\GC21\DATA\102119F\1021F105.D	10/21/2019 15:57	10/23/2019 15:17	10/24/2019 09:18
290430	J:\GC21\DATA\102119F\1021F106.D	10/21/2019 16:19	10/23/2019 15:20	10/24/2019 09:18
290431	J:\GC21\DATA\102119F\1021F107.D	10/21/2019 16:41	10/23/2019 15:21	10/24/2019 09:18
290432	J:\GC21\DATA\102119F\1021F108.D	10/21/2019 17:04	10/23/2019 15:21	10/24/2019 09:18
290433	J:\GC21\DATA\102119F\1021F112.D	10/21/2019 18:33	10/24/2019 07:36	10/24/2019 09:18
290434	J:\GC21\DATA\102119F\1021F113.D	10/21/2019 18:56	10/24/2019 07:47	10/24/2019 09:18
290435	J:\GC21\DATA\102119F\1021F114.D	10/21/2019 19:18	10/24/2019 08:12	10/24/2019 09:18
290436	J:\GC21\DATA\102119F\1021F115.D	10/21/2019 19:40	10/24/2019 08:16	10/24/2019 09:18
290437	J:\GC21\DATA\102119F\1021F116.D	10/21/2019 20:03	10/24/2019 08:17	10/24/2019 09:18
290439	J:\GC21\DATA\102119F\1021F120.D	10/21/2019 21:32	10/24/2019 08:36	10/24/2019 09:18
290440	J:\GC21\DATA\102119F\1021F121.D	10/21/2019 21:55	10/24/2019 08:38	10/24/2019 09:18
290441	J:\GC21\DATA\102119F\1021F122.D	10/21/2019 22:17	10/24/2019 08:41	10/24/2019 09:18
290442	J:\GC21\DATA\102119F\1021F123.D	10/21/2019 22:40	10/24/2019 08:42	10/24/2019 09:18
290443	J:\GC21\DATA\102119F\1021F124.D	10/21/2019 23:02	10/24/2019 08:44	10/24/2019 09:18
290444	J:\GC21\DATA\102119F\1021F125.D	10/21/2019 23:24	10/24/2019 08:45	10/24/2019 09:18
290445	J:\GC21\DATA\102119F\1021F126.D	10/21/2019 23:47	10/24/2019 08:46	10/24/2019 09:18
290446	J:\GC21\DATA\102119F\1021F127.D	10/22/2019 00:09	10/24/2019 08:50	10/24/2019 09:18
290448	J:\GC21\DATA\102419F\1024F120.D	10/24/2019 15:13	10/25/2019 06:43	10/25/2019 07:35

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Diesel Range Organics (DRO)		1.46E+3	4.16E+3	0.9937	1.5E+3
Residual Range Organics (RRO)		8.78E+2	6.67E+3	0.9952	9.2E+2



Method Name: J:\GC21\METHODS\102119F.M
Calibration Table Last Updated: Fri Oct 25 07:13:28 2019



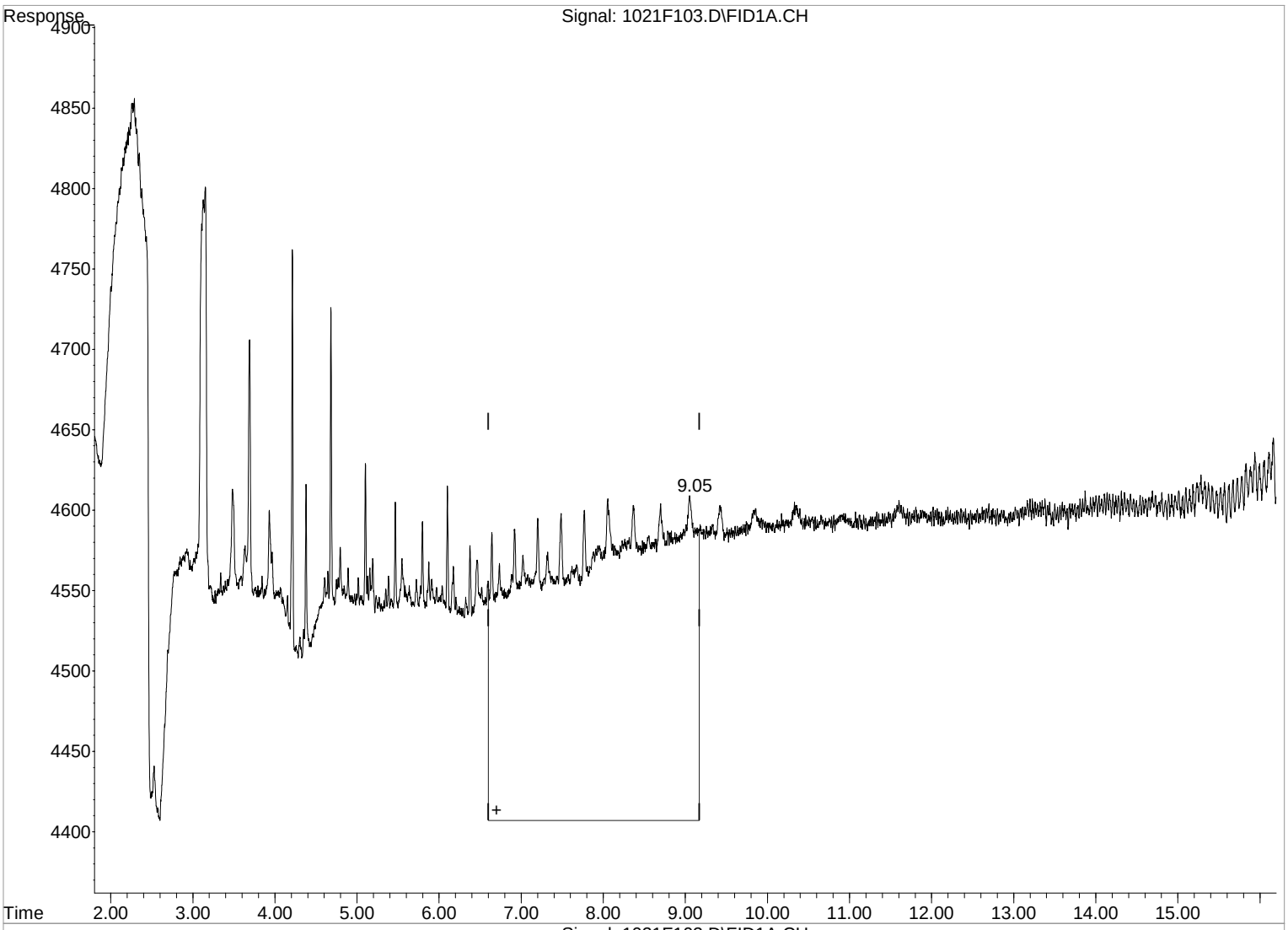
Method Name: J:\GC21\METHODS\102119F.M
Calibration Table Last Updated: Thu Oct 24 08:55:49 2019

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F103.D Vial: 1
Acq On : 21 Oct 2019 3:12 pm Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:10 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F103.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 26.559ppm

response 25302

Manual Integration:

Before

10/23/19

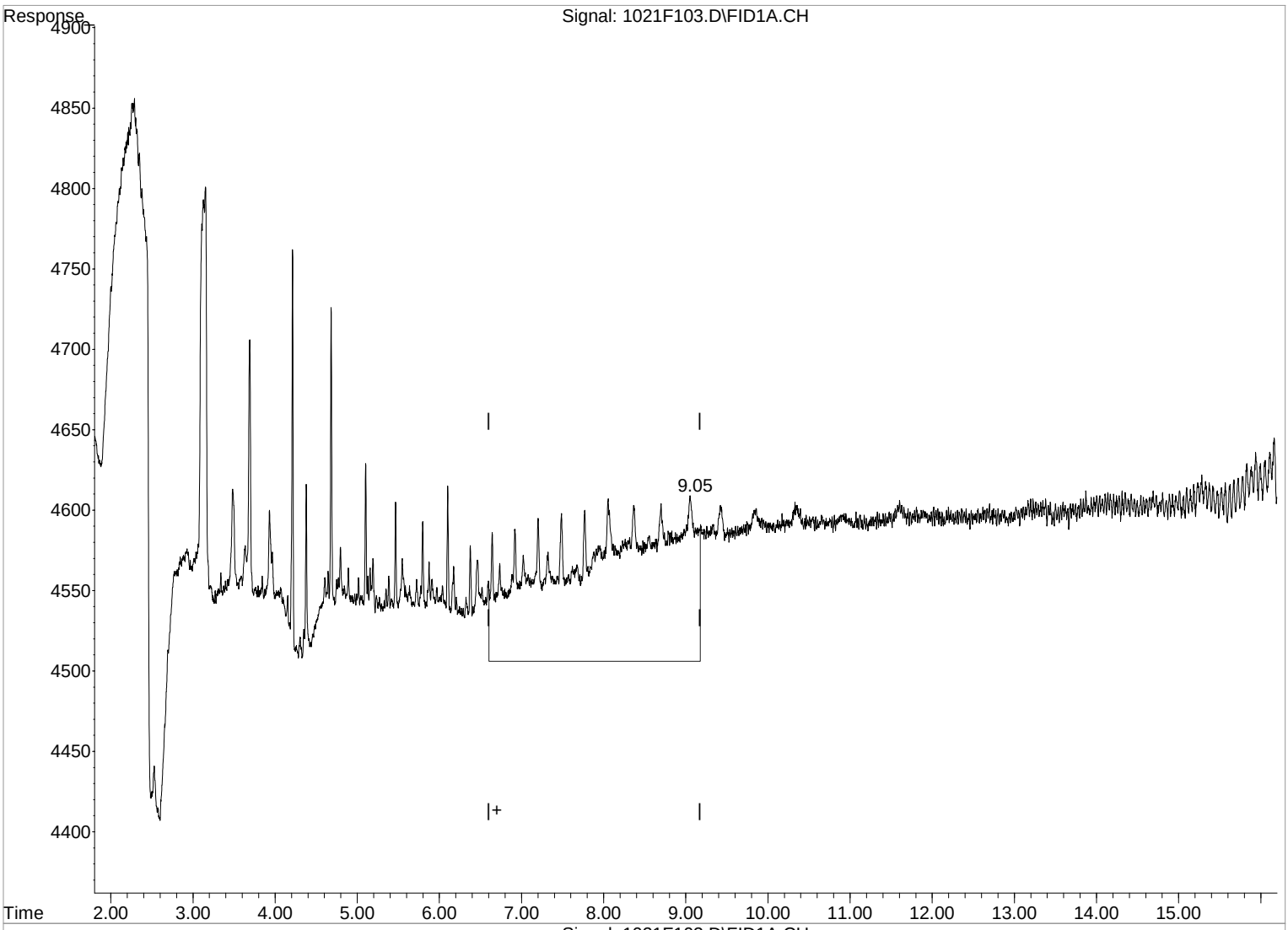
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F103.D Vial: 1
Acq On : 21 Oct 2019 3:12 pm Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:10 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F103.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 10.560ppm

response 10060

Manual Integration:

After

Baseline/Shoulder

10/23/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F105.D Vial: 3
Acq On : 21 Oct 2019 3:57 pm Operator: TAP
Sample : SVF02-74H 200 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:14:49 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
10) H	C25-C36in RRO [NWTPH]	6.70	197955	207.790 ppm

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

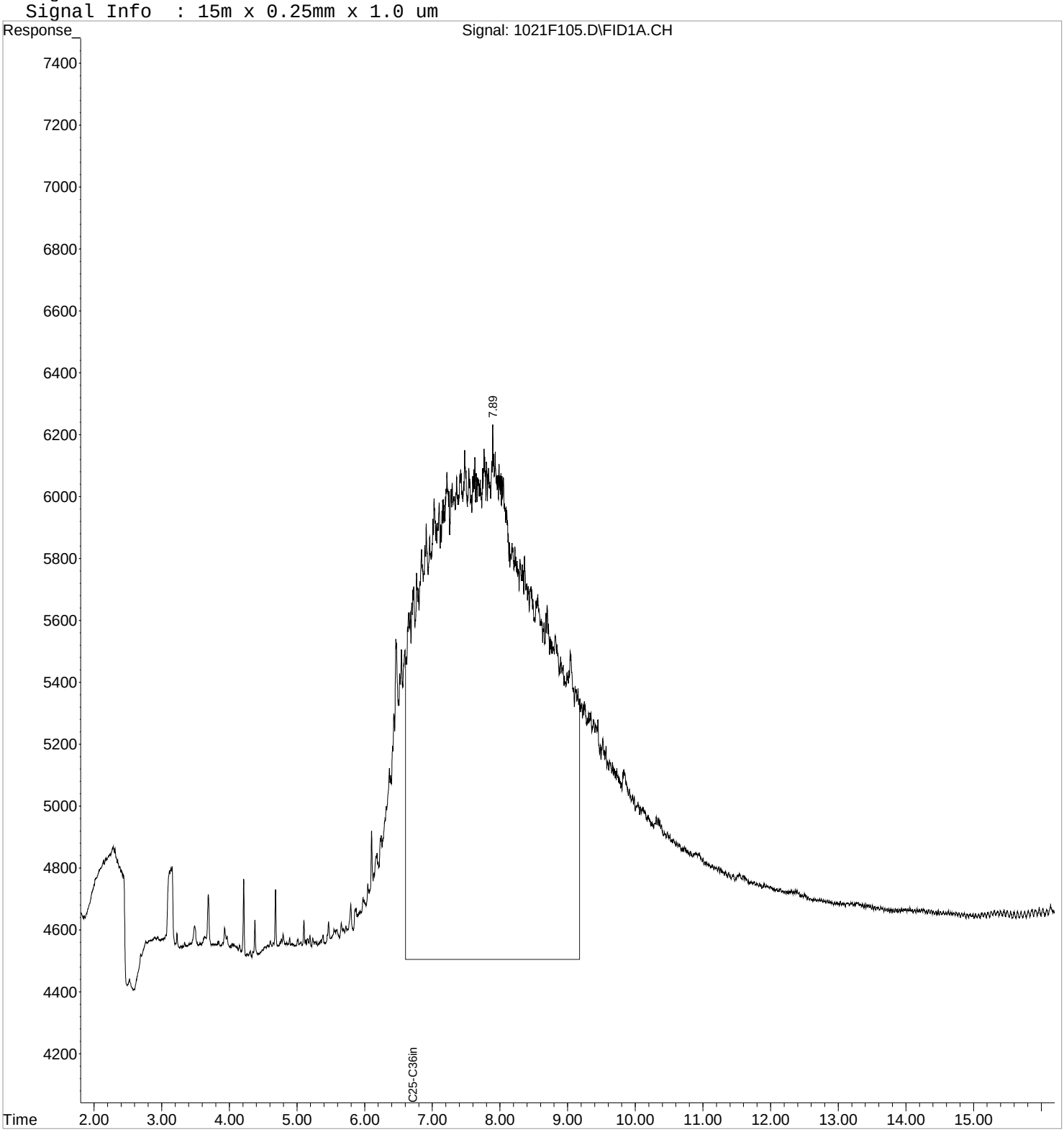
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F105.D Vial: 3
Acq On : 21 Oct 2019 3:57 pm Operator: TAP
Sample : SVF02-74H 200 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:17 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

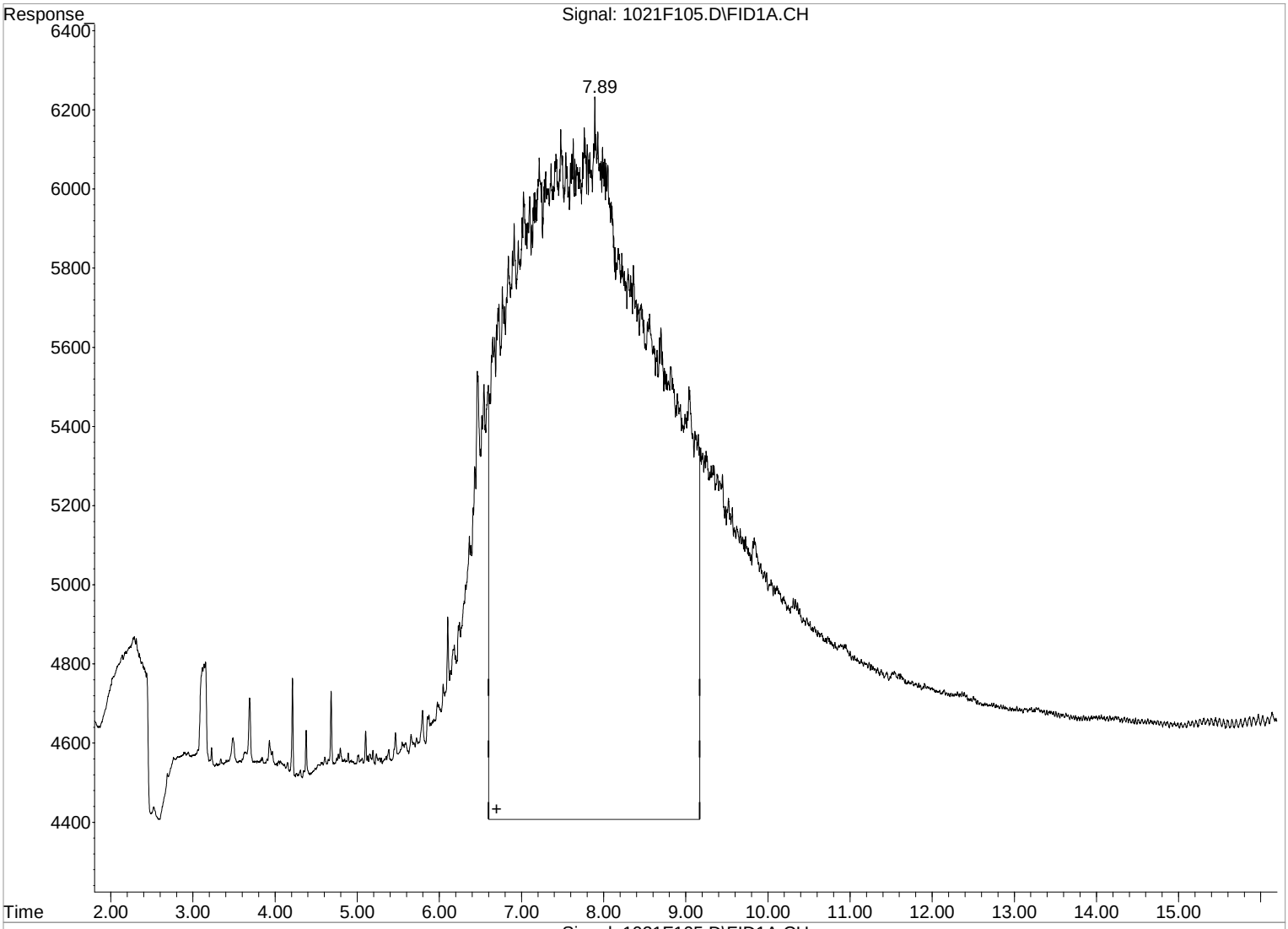


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F105.D Vial: 3
Acq On : 21 Oct 2019 3:57 pm Operator: TAP
Sample : SVF02-74H 200 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:14 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F105.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 223.512ppm

response 212933

Manual Integration:

Before

10/23/19

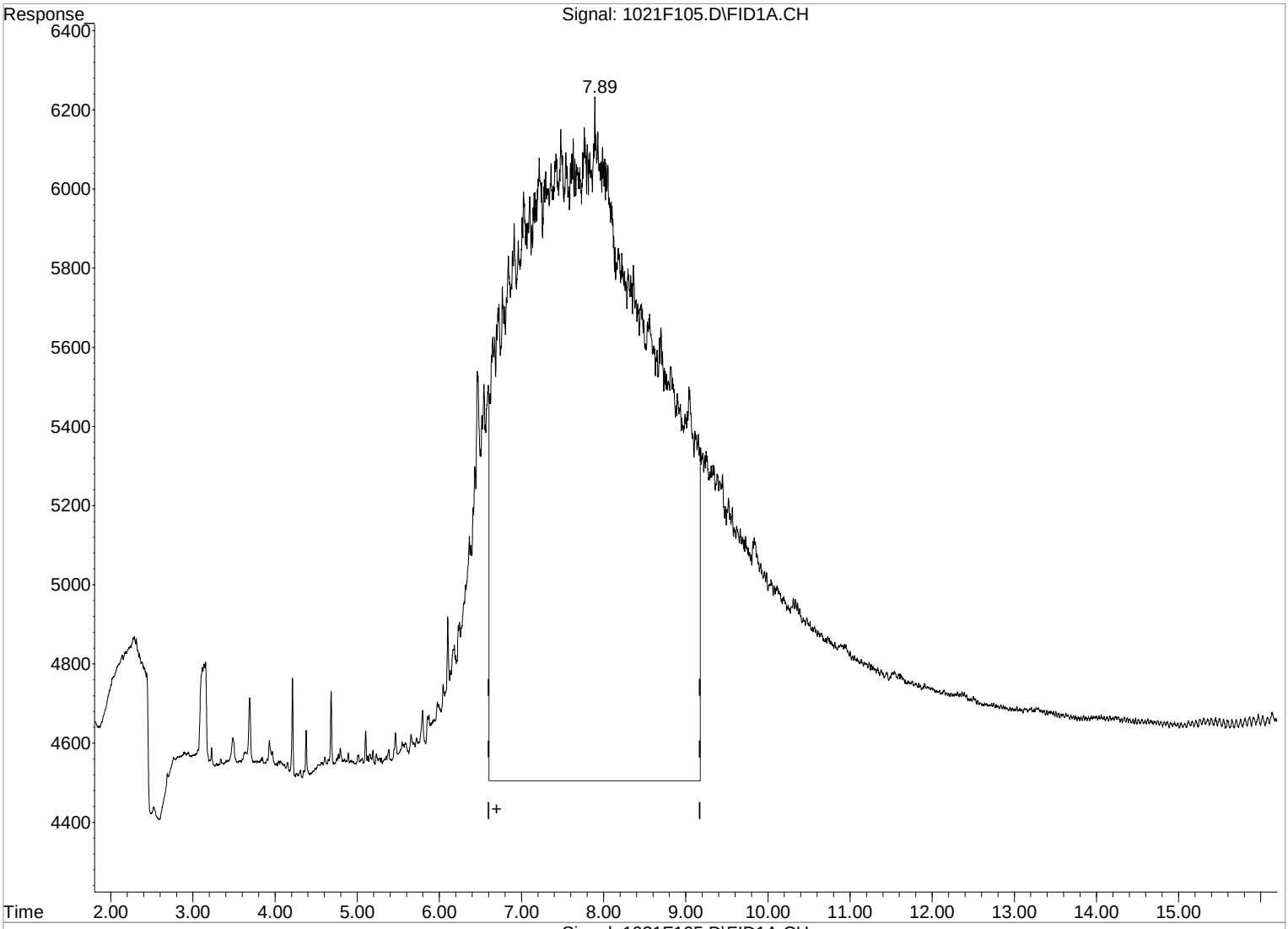
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F105.D Vial: 3
Acq On : 21 Oct 2019 3:57 pm Operator: TAP
Sample : SVF02-74H 200 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:14 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F105.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 207.790ppm

response 197955

Manual Integration:

After

Baseline/Shoulder

10/23/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F106.D Vial: 4
Acq On : 21 Oct 2019 4:19 pm Operator: TAP
Sample : SVF02-74G 500 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:19:15 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
10) H	C25-C36in RRO [NWTPH]	6.70	460966	483.869 ppm

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

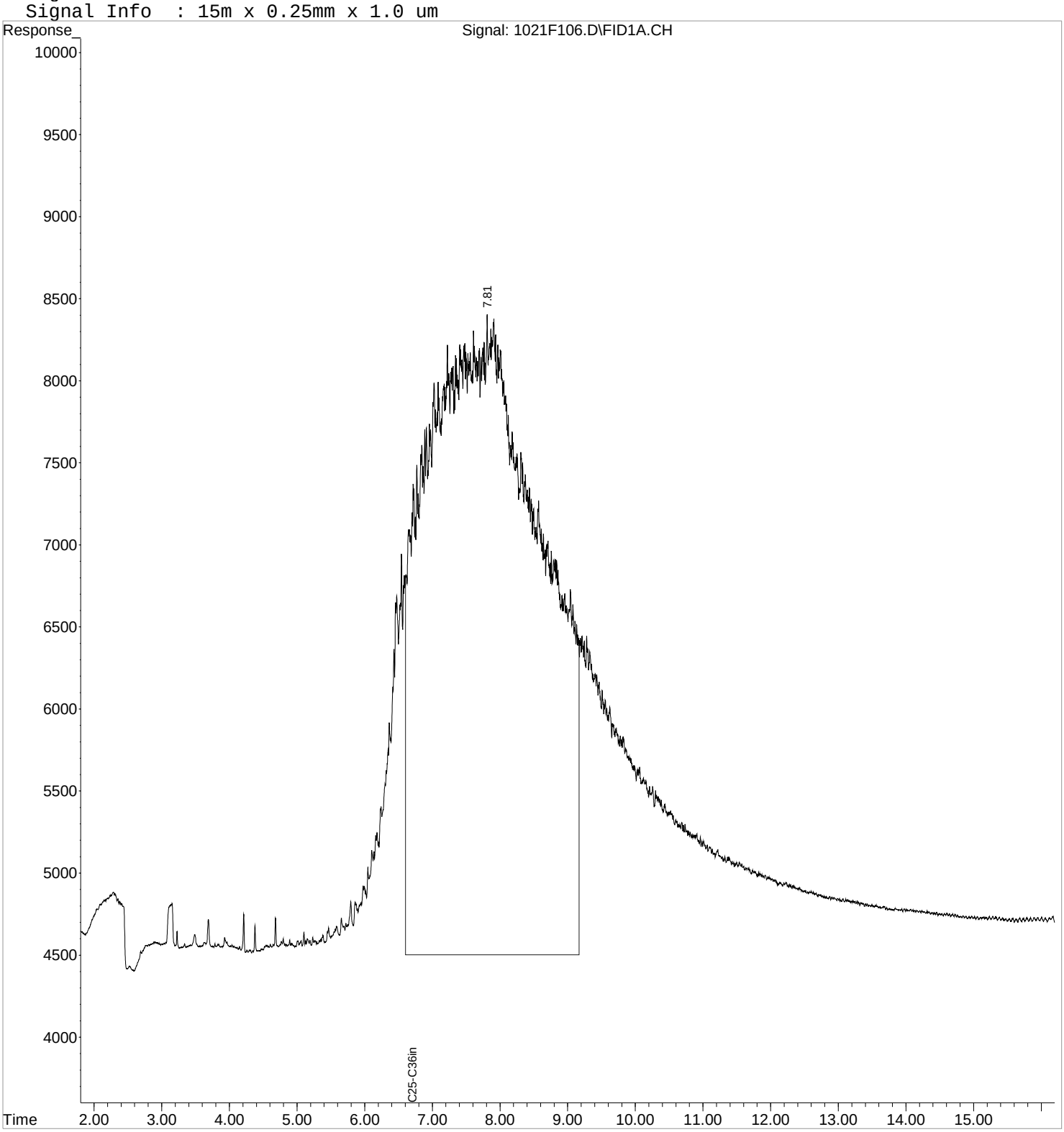
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F106.D Vial: 4
Acq On : 21 Oct 2019 4:19 pm Operator: TAP
Sample : SVF02-74G 500 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:20 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

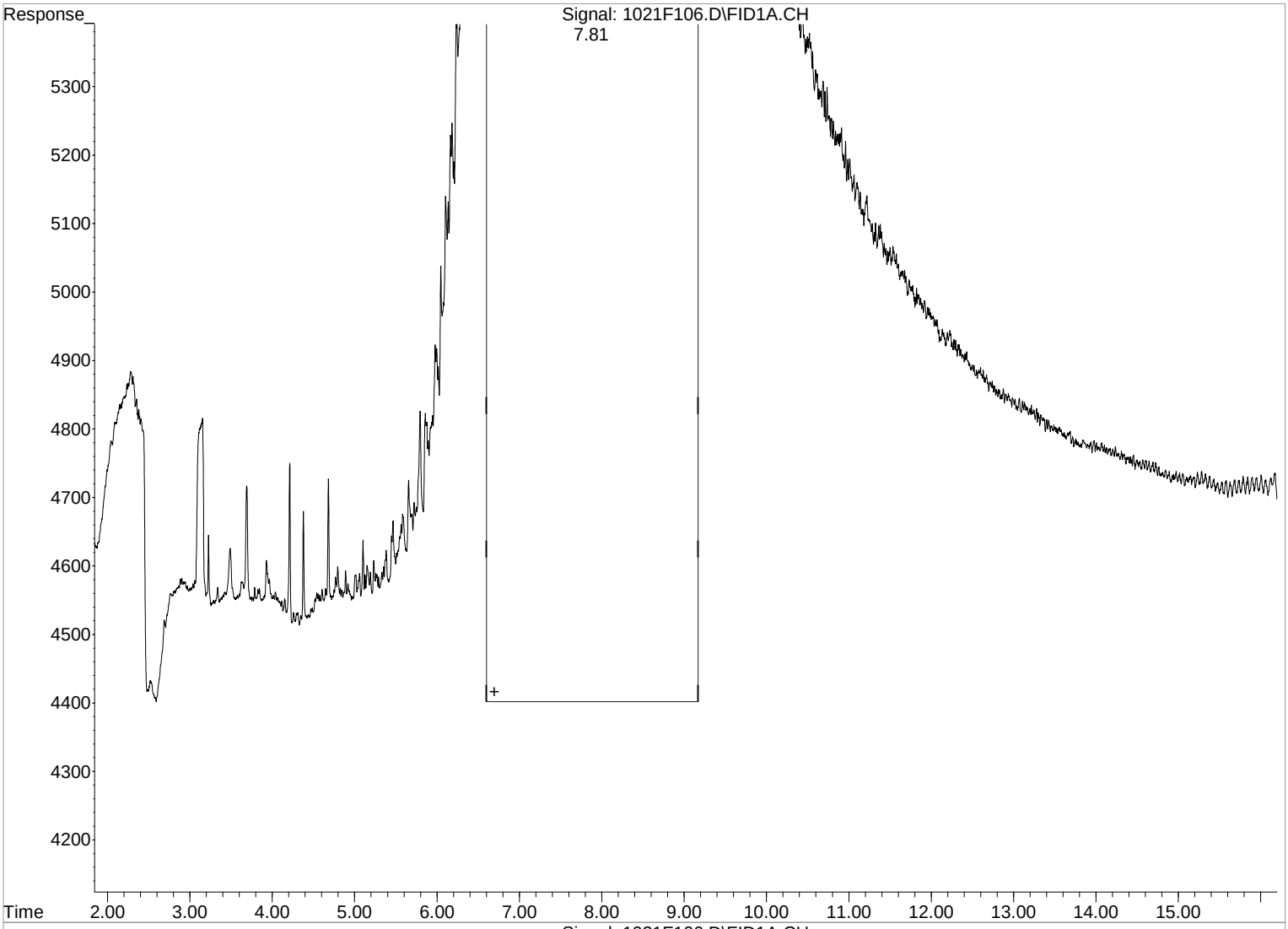


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F106.D Vial: 4
Acq On : 21 Oct 2019 4:19 pm Operator: TAP
Sample : SVF02-74G 500 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:19 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F106.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 500.727ppm

response 477026

Manual Integration:

Before

10/23/19

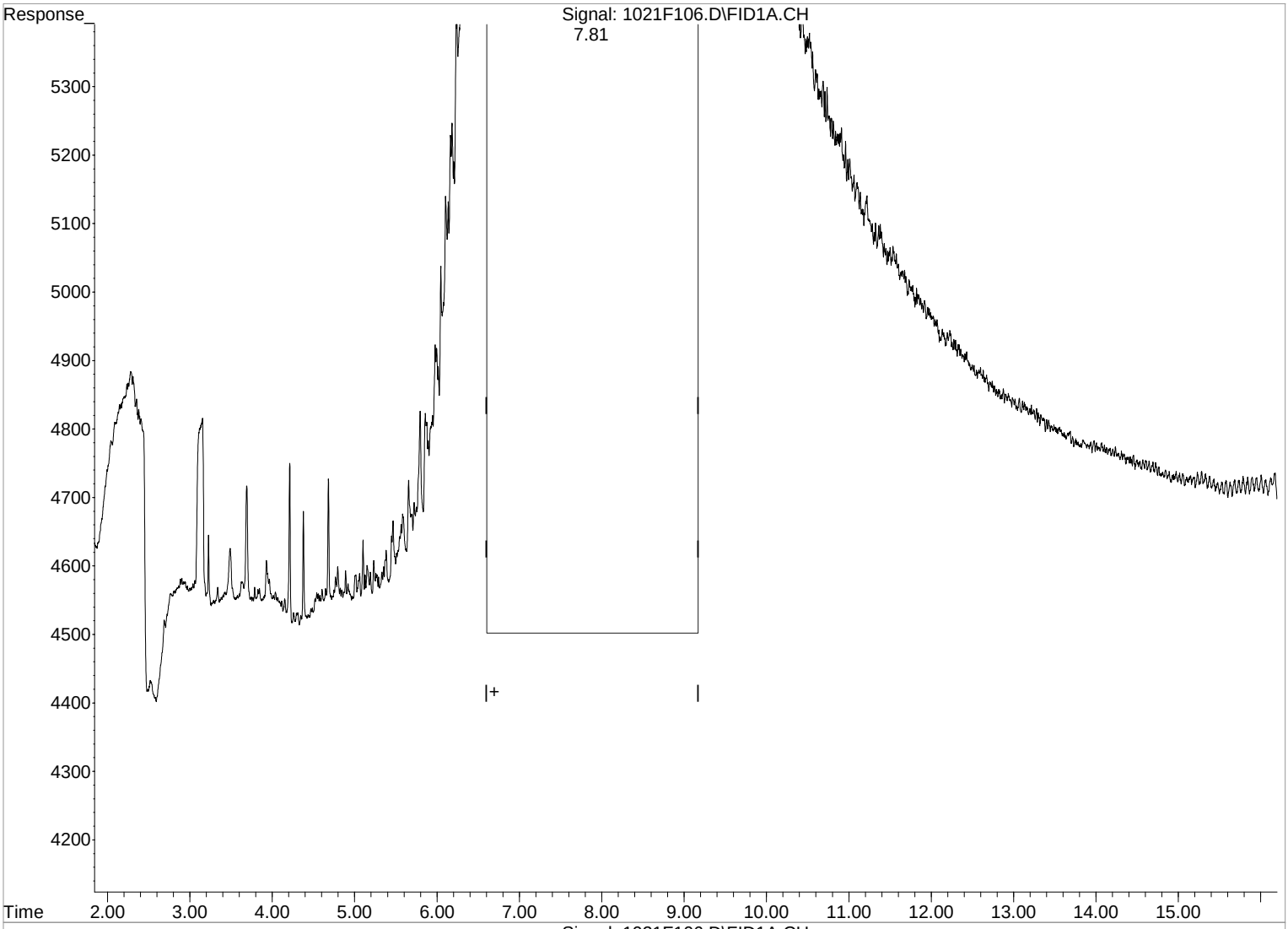
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F106.D Vial: 4
Acq On : 21 Oct 2019 4:19 pm Operator: TAP
Sample : SVF02-74G 500 RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:19 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F106.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 483.869ppm

response 460966

Manual Integration:

After

Baseline/Shoulder

10/23/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F107.D Vial: 5
Acq On : 21 Oct 2019 4:41 pm Operator: TAP
Sample : SVF02-74F 2K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:20:12 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
10) H	C25-C36in RRO [NWTPH]	6.70	1712013	1797.073	ppm

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

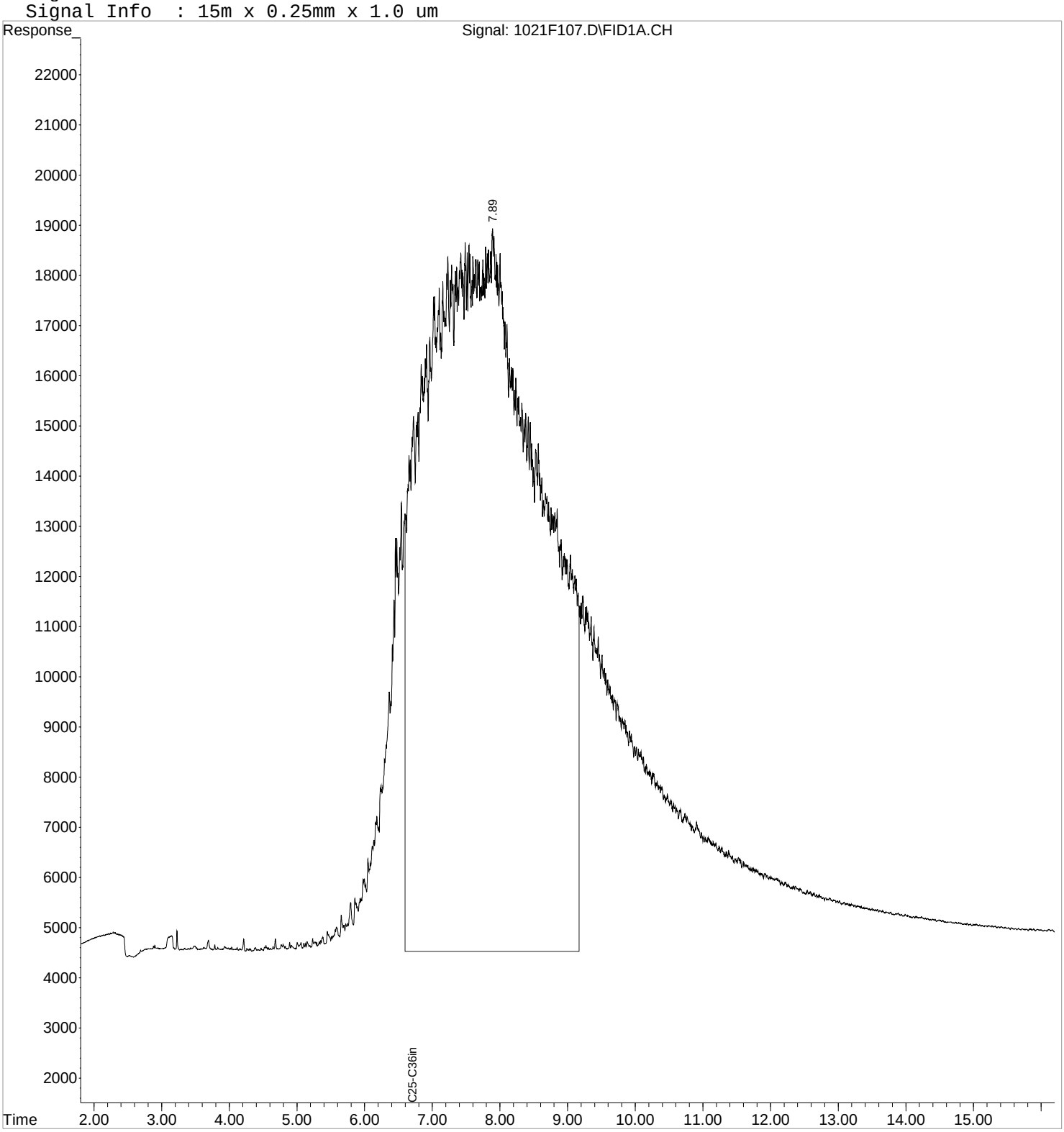
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F107.D Vial: 5
Acq On : 21 Oct 2019 4:41 pm Operator: TAP
Sample : SVF02-74F 2K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:21 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

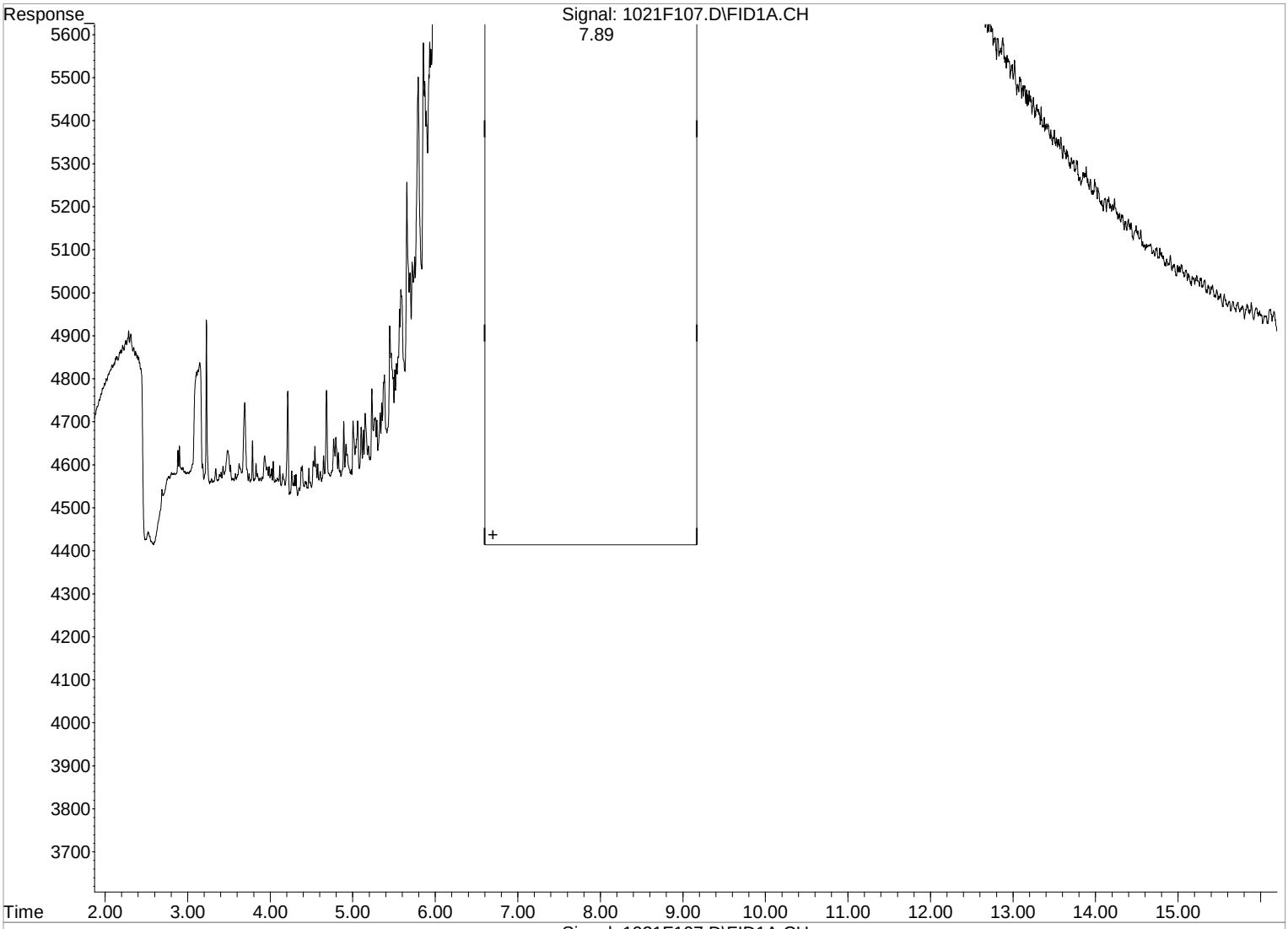


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F107.D Vial: 5
Acq On : 21 Oct 2019 4:41 pm Operator: TAP
Sample : SVF02-74F 2K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:20 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F107.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 1813.372ppm

response 1727541

Manual Integration:

Before

10/23/19

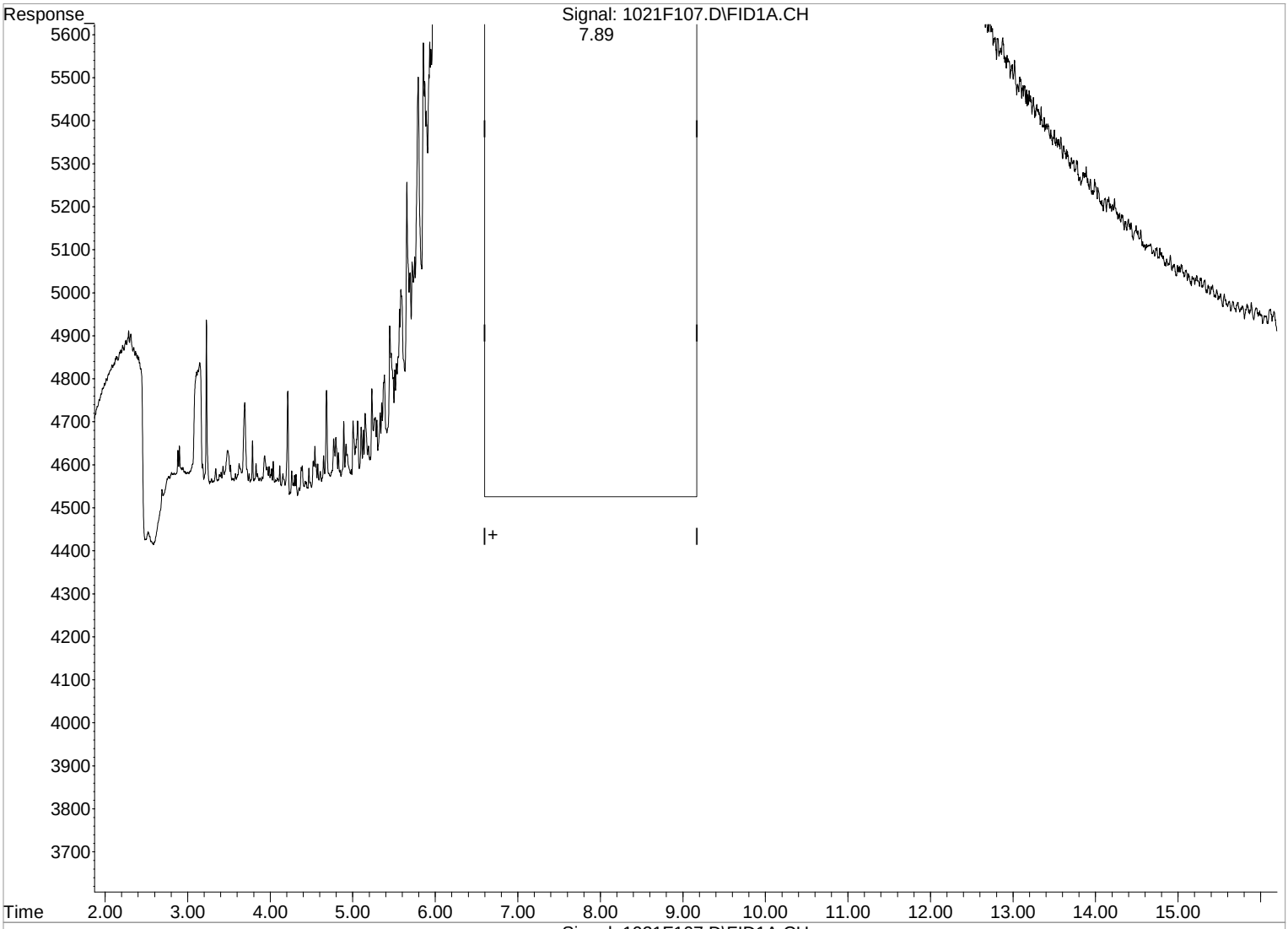
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F107.D Vial: 5
Acq On : 21 Oct 2019 4:41 pm Operator: TAP
Sample : SVF02-74F 2K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:20 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F107.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 1797.073ppm

response 1712013

Manual Integration:

After

Baseline/Shoulder

10/23/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F108.D Vial: 6
Acq On : 21 Oct 2019 5:04 pm Operator: TAP
Sample : SVF02-74E 5K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:21:09 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
10) H	C25-C36in RRO [NWTPH]	6.70	4093554	4296.939	ppm

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

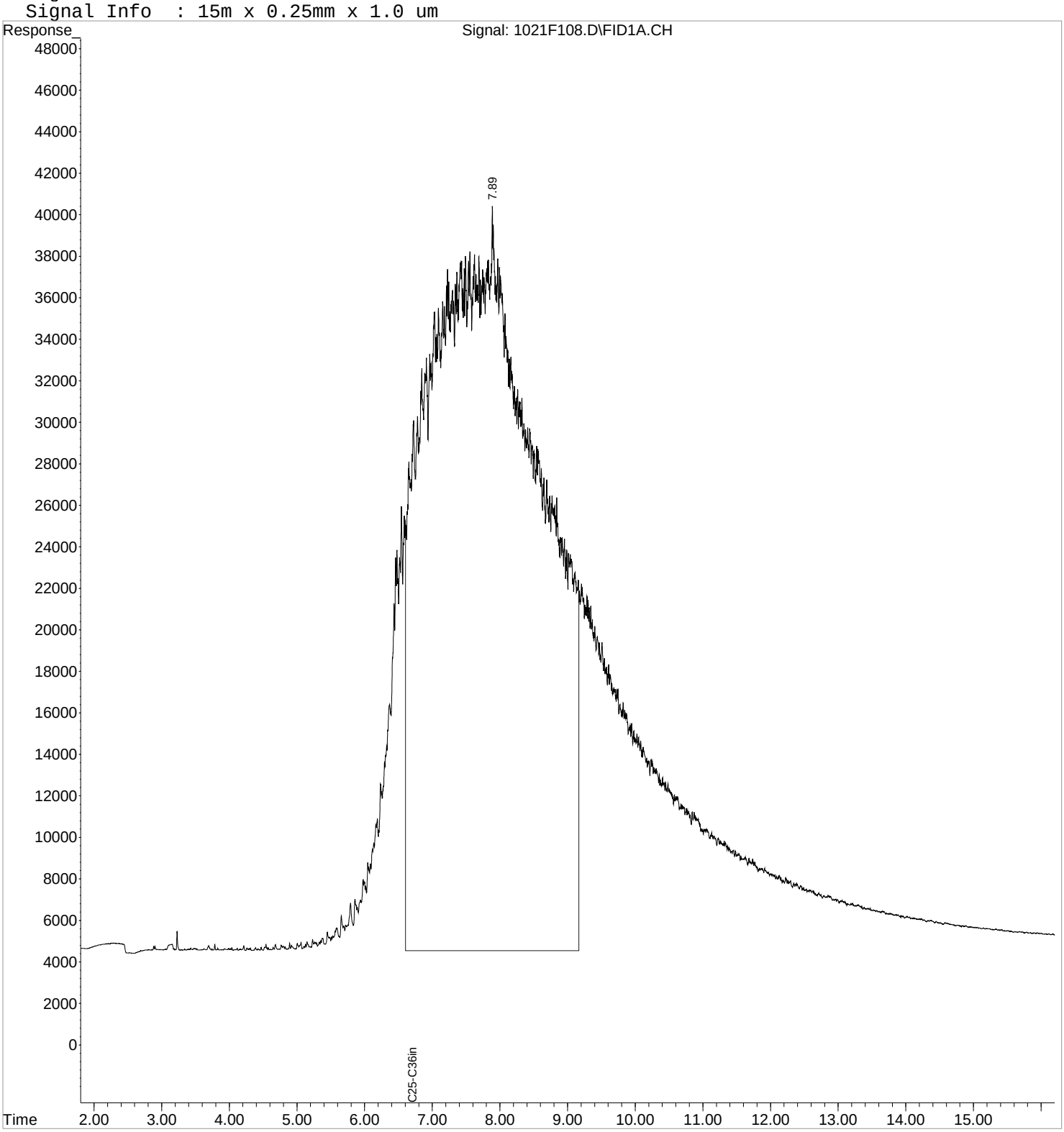
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F108.D Vial: 6
Acq On : 21 Oct 2019 5:04 pm Operator: TAP
Sample : SVF02-74E 5K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:21 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

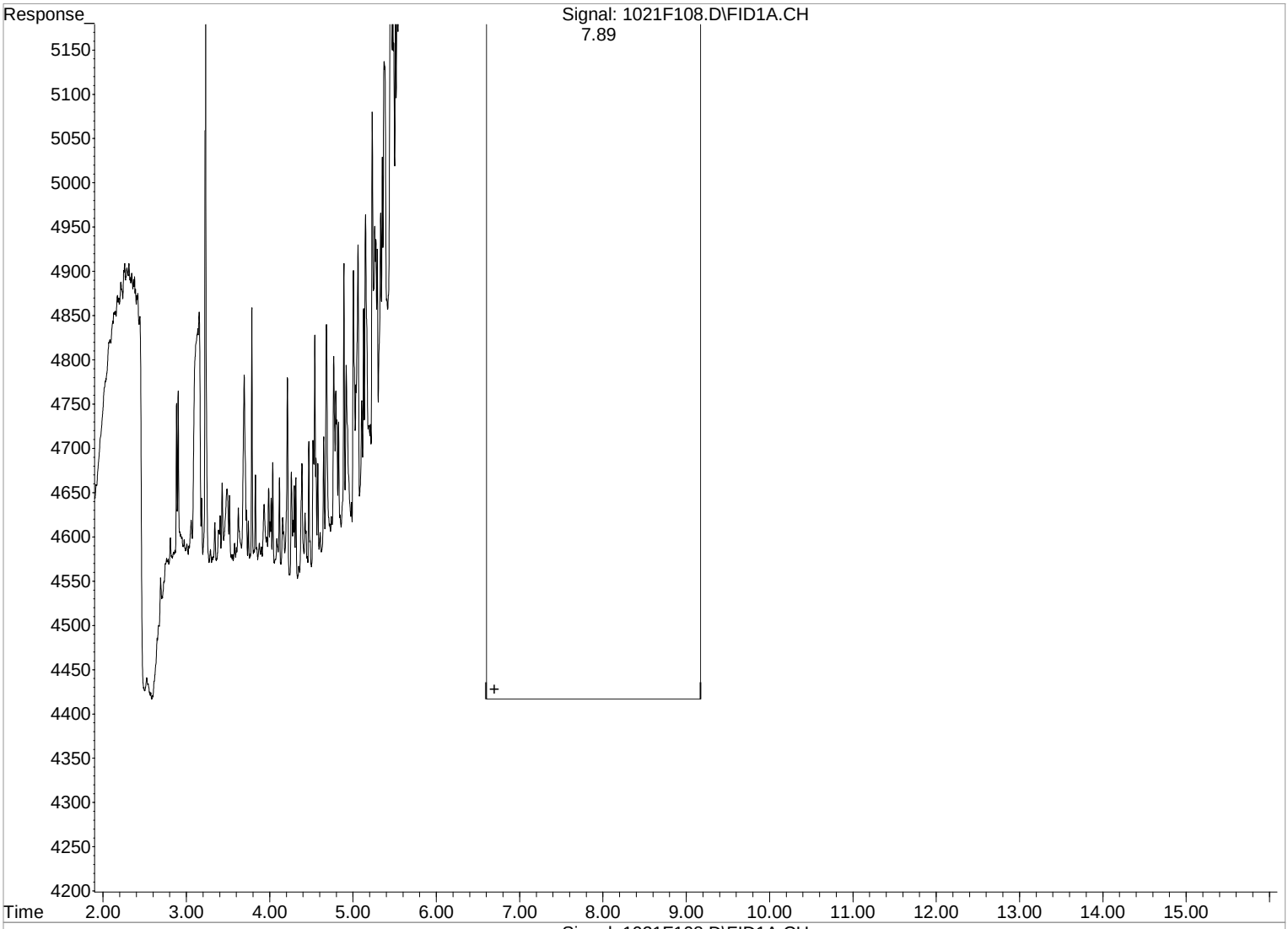


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F108.D Vial: 6
Acq On : 21 Oct 2019 5:04 pm Operator: TAP
Sample : SVF02-74E 5K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F108.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 4327.750ppm

response 4122907

Manual Integration:

Before

10/23/19

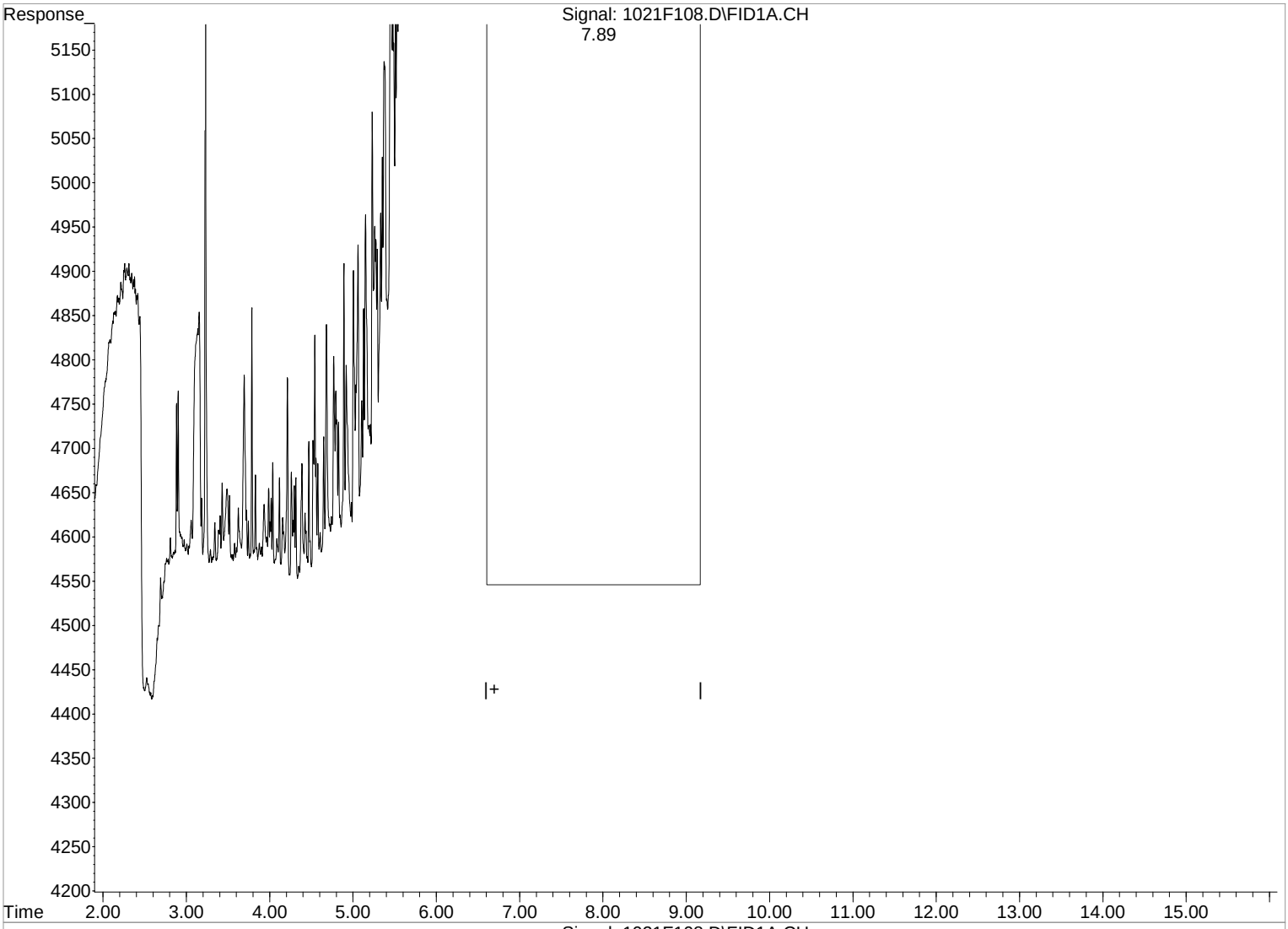
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F108.D Vial: 6
Acq On : 21 Oct 2019 5:04 pm Operator: TAP
Sample : SVF02-74E 5K RRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 23 15:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F108.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 4296.939ppm

response 4093554

Manual Integration:

After

Baseline/Shoulder

10/23/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F111.D Vial: 1
Acq On : 21 Oct 2019 6:11 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:12:23 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
11) H	C25-C36in RRO [AK103]	6.70	11242	15.366 ppm

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

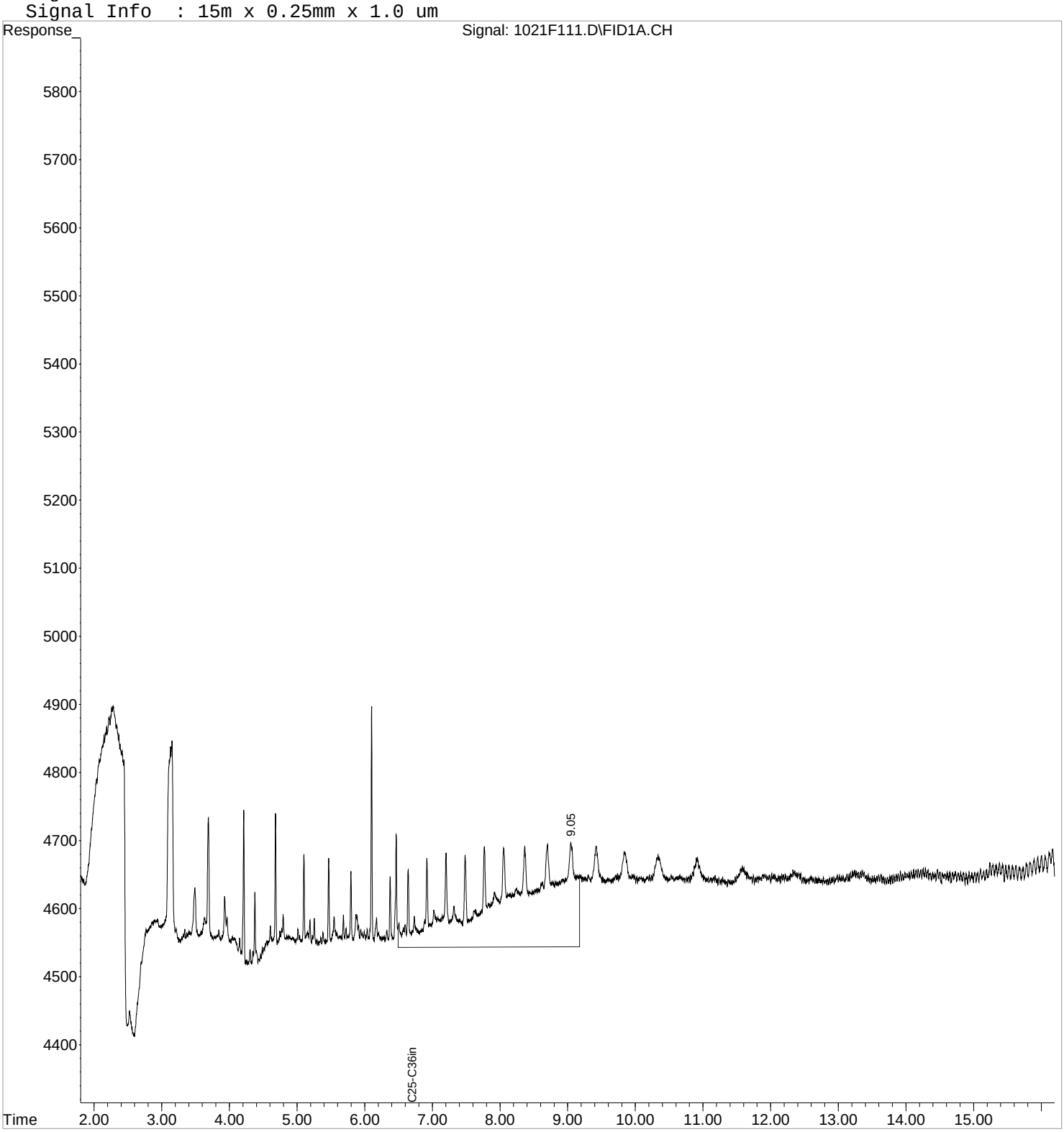
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F111.D Vial: 1
Acq On : 21 Oct 2019 6:11 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:14 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

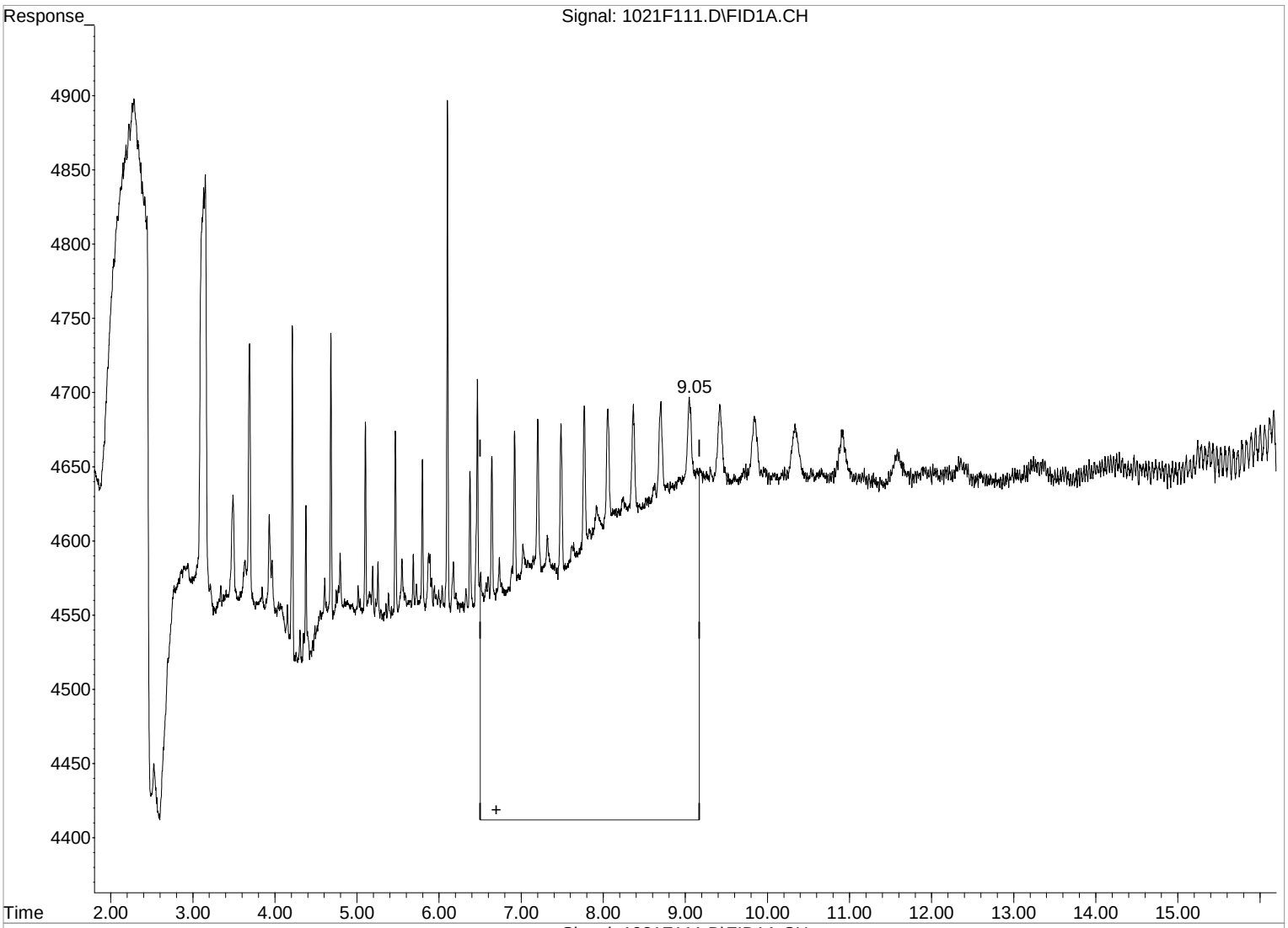


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F111.D Vial: 1
Acq On : 21 Oct 2019 6:11 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:12 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F111.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 43.978ppm

response 32174

Manual Integration:

Before

10/24/19

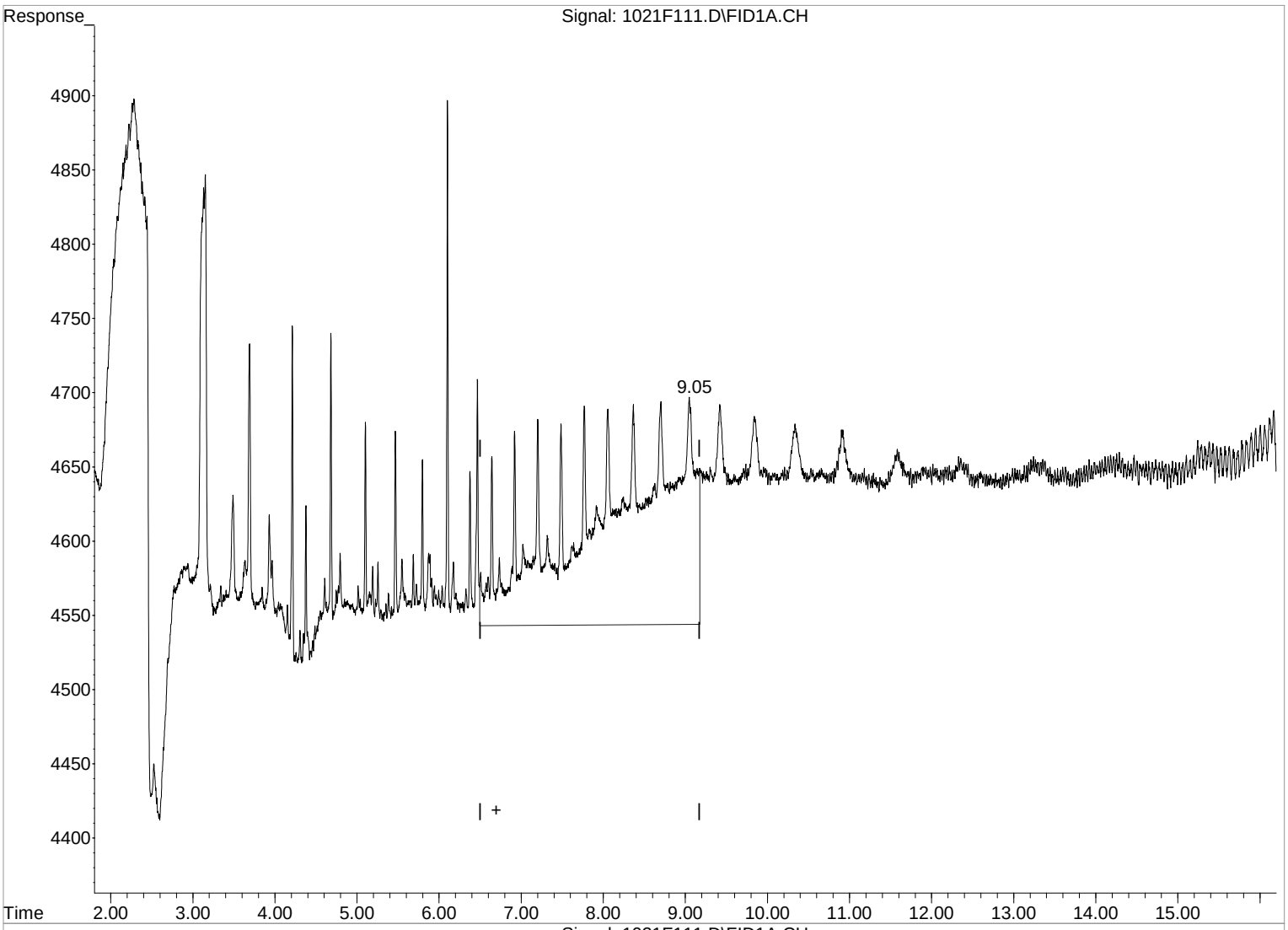
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F111.D Vial: 1
Acq On : 21 Oct 2019 6:11 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:12 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F111.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 15.366ppm

response 11242

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F112.D Vial: 8
Acq On : 21 Oct 2019 6:33 pm Operator: TAP
Sample : SVF02-76F 50 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 07:35:30 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
11) H	C25-C36in RRO [AK103]	6.70	53429	73.031 ppm

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

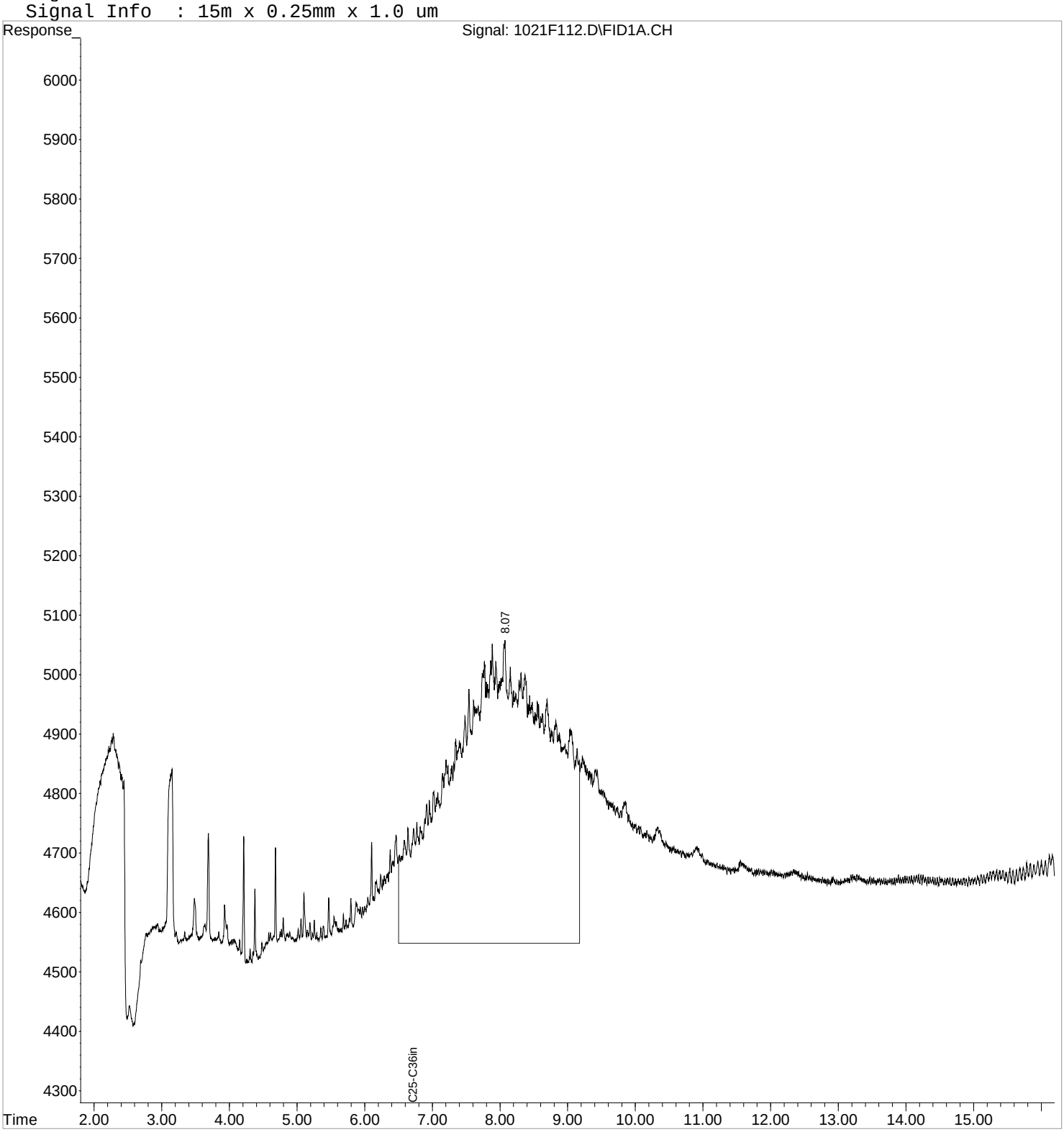
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F112.D Vial: 8
Acq On : 21 Oct 2019 6:33 pm Operator: TAP
Sample : SVF02-76F 50 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:36 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

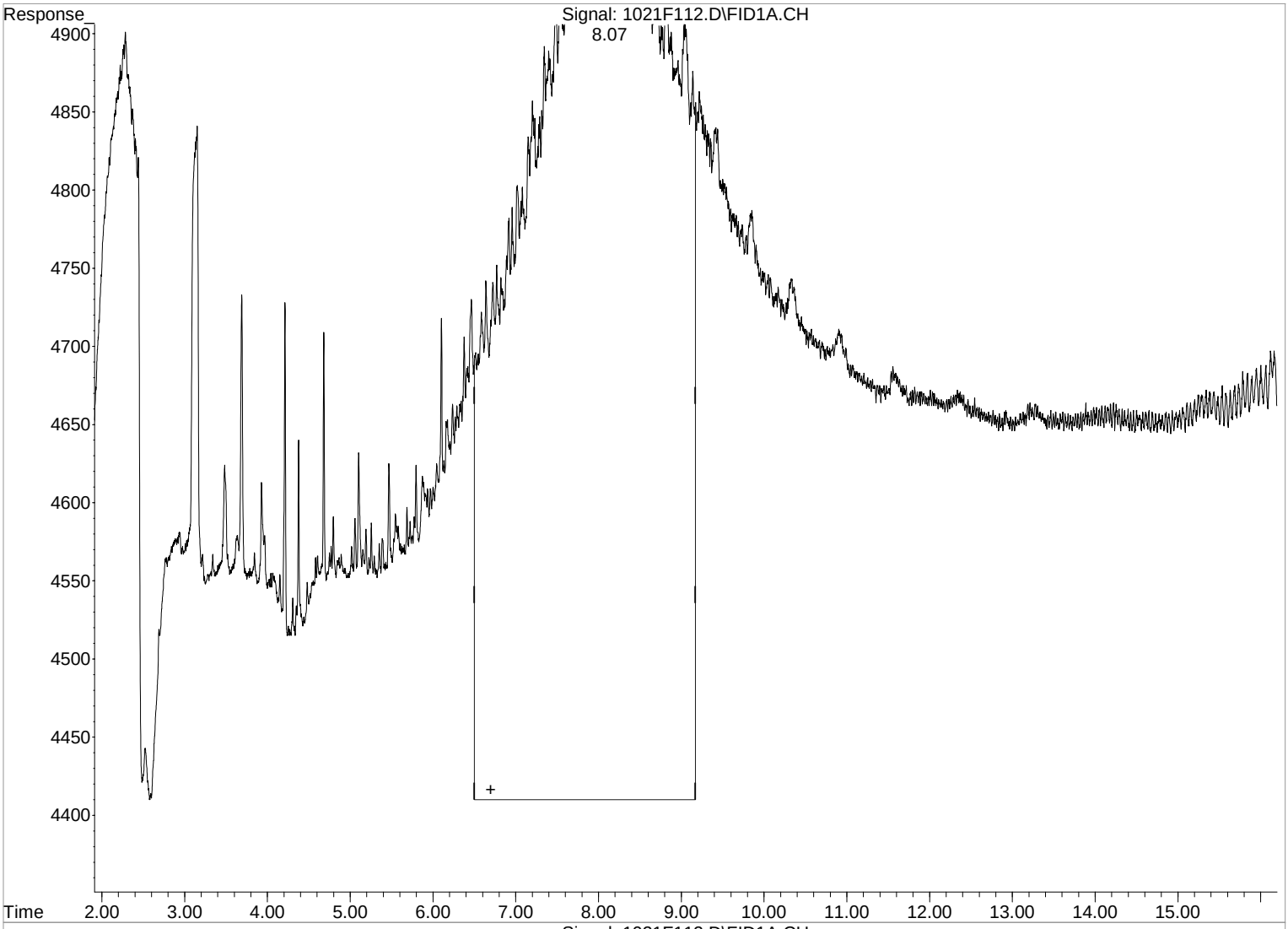


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F112.D Vial: 8
Acq On : 21 Oct 2019 6:33 pm Operator: TAP
Sample : SVF02-76F 50 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F112.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 103.124ppm

response 75445

Manual Integration:

Before

10/24/19

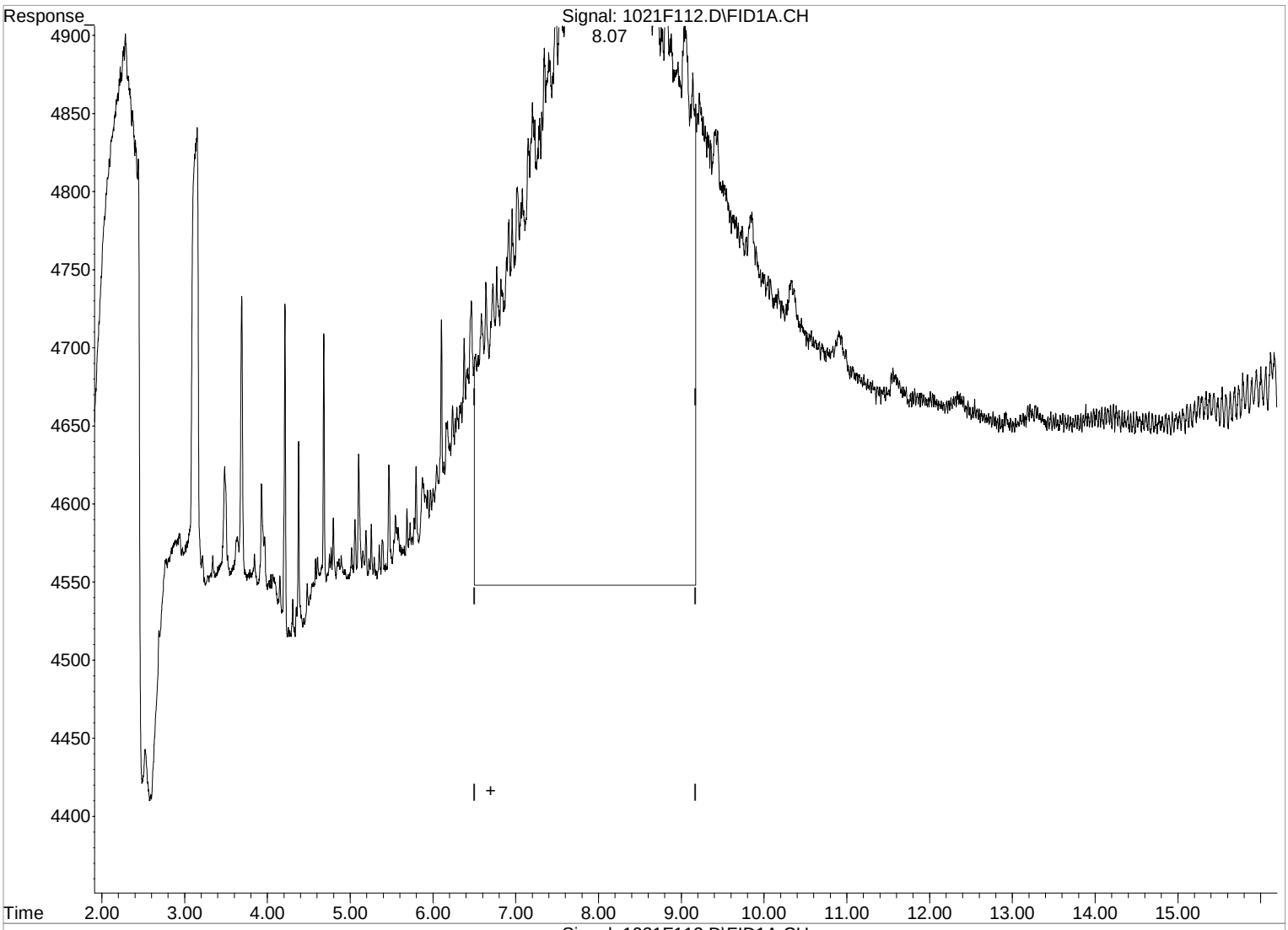
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F112.D Vial: 8
Acq On : 21 Oct 2019 6:33 pm Operator: TAP
Sample : SVF02-76F 50 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F112.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 73.031ppm

response 53429

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F113.D Vial: 9
Acq On : 21 Oct 2019 6:56 pm Operator: TAP
Sample : SVF02-76E 200 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 07:37:03 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
11) H	C25-C36in RRO [AK103]	6.70	182925	250.035 ppm

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

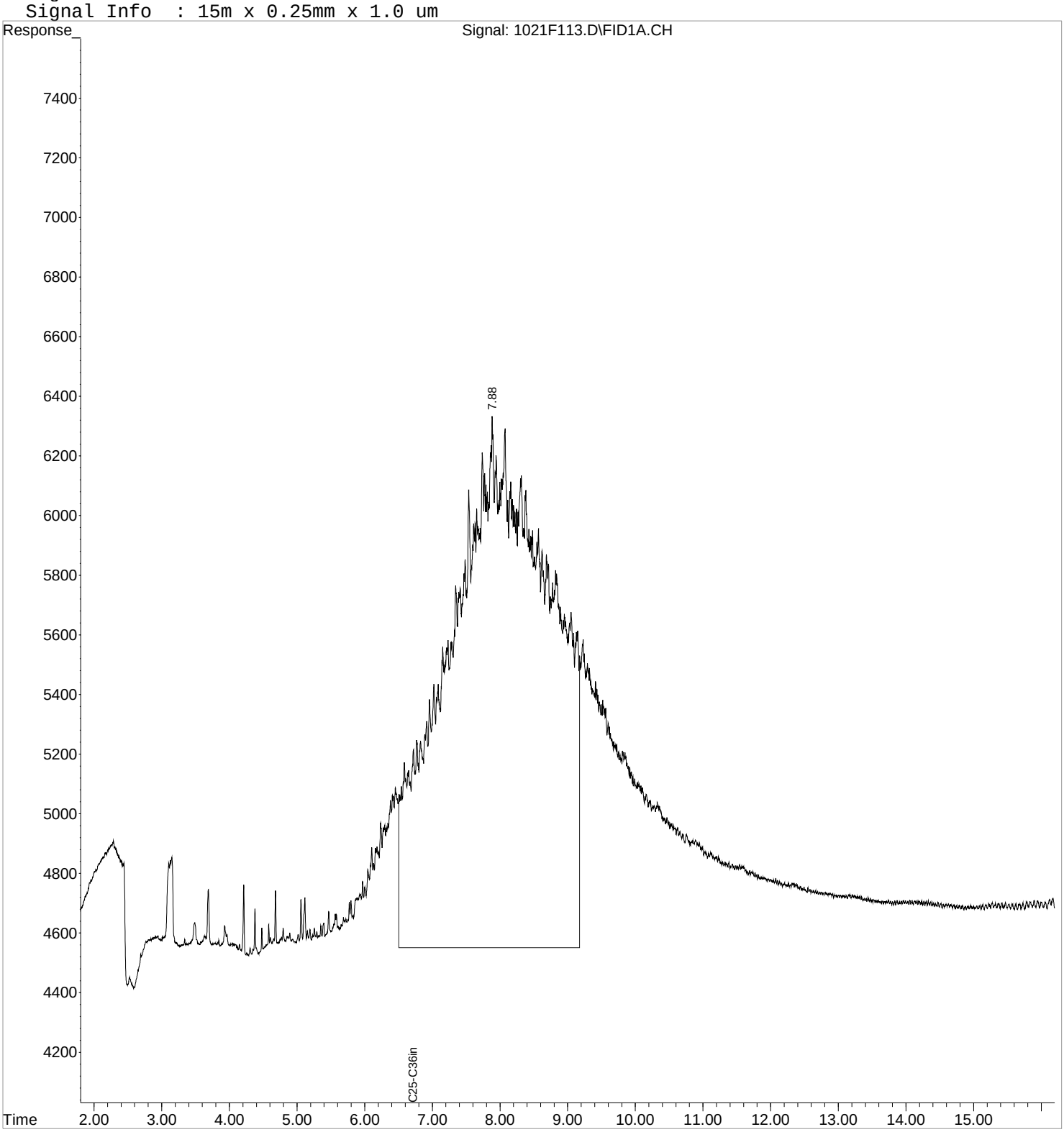
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F113.D Vial: 9
Acq On : 21 Oct 2019 6:56 pm Operator: TAP
Sample : SVF02-76E 200 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:47 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

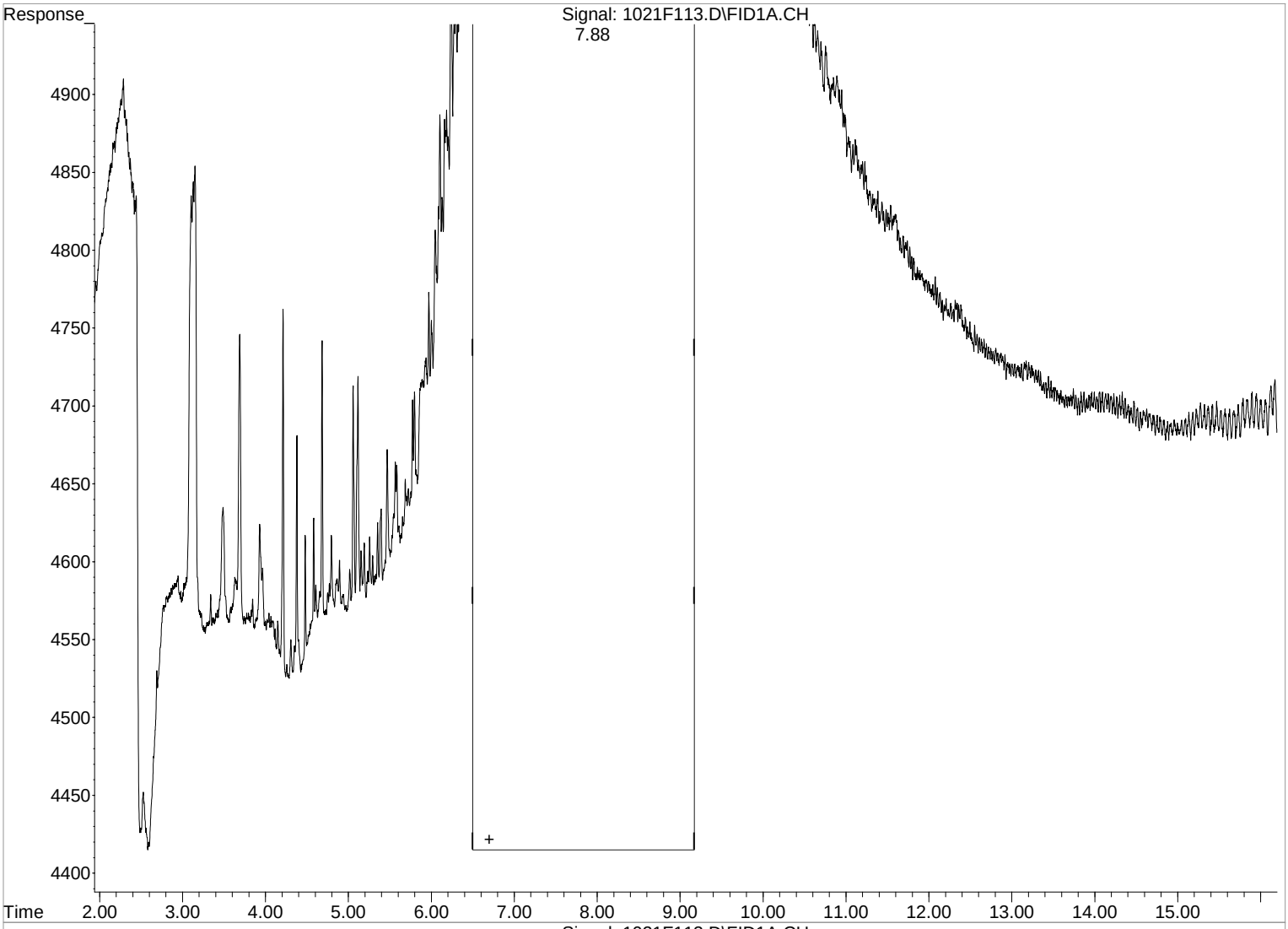


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F113.D Vial: 9
Acq On : 21 Oct 2019 6:56 pm Operator: TAP
Sample : SVF02-76E 200 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F113.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 279.630ppm

response 204576

Manual Integration:

Before

10/24/19

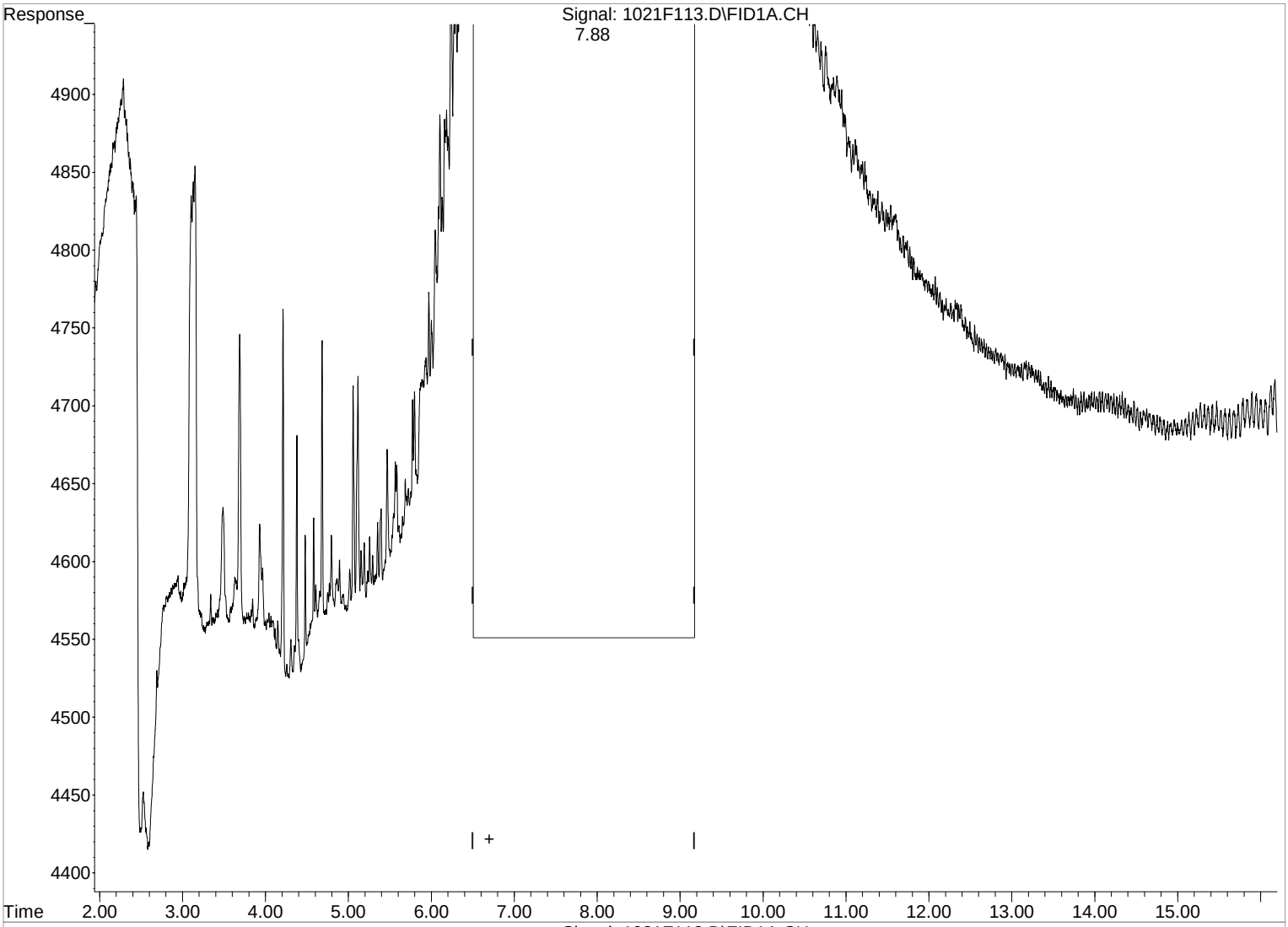
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F113.D Vial: 9
Acq On : 21 Oct 2019 6:56 pm Operator: TAP
Sample : SVF02-76E 200 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F113.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 250.035ppm

response 182925

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F114.D Vial: 10
Acq On : 21 Oct 2019 7:18 pm Operator: TAP
Sample : SVF02-76D 500 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 07:50:35 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
11) H	C25-C36in RRO [AK103]	6.70	433271	592.227 ppm

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

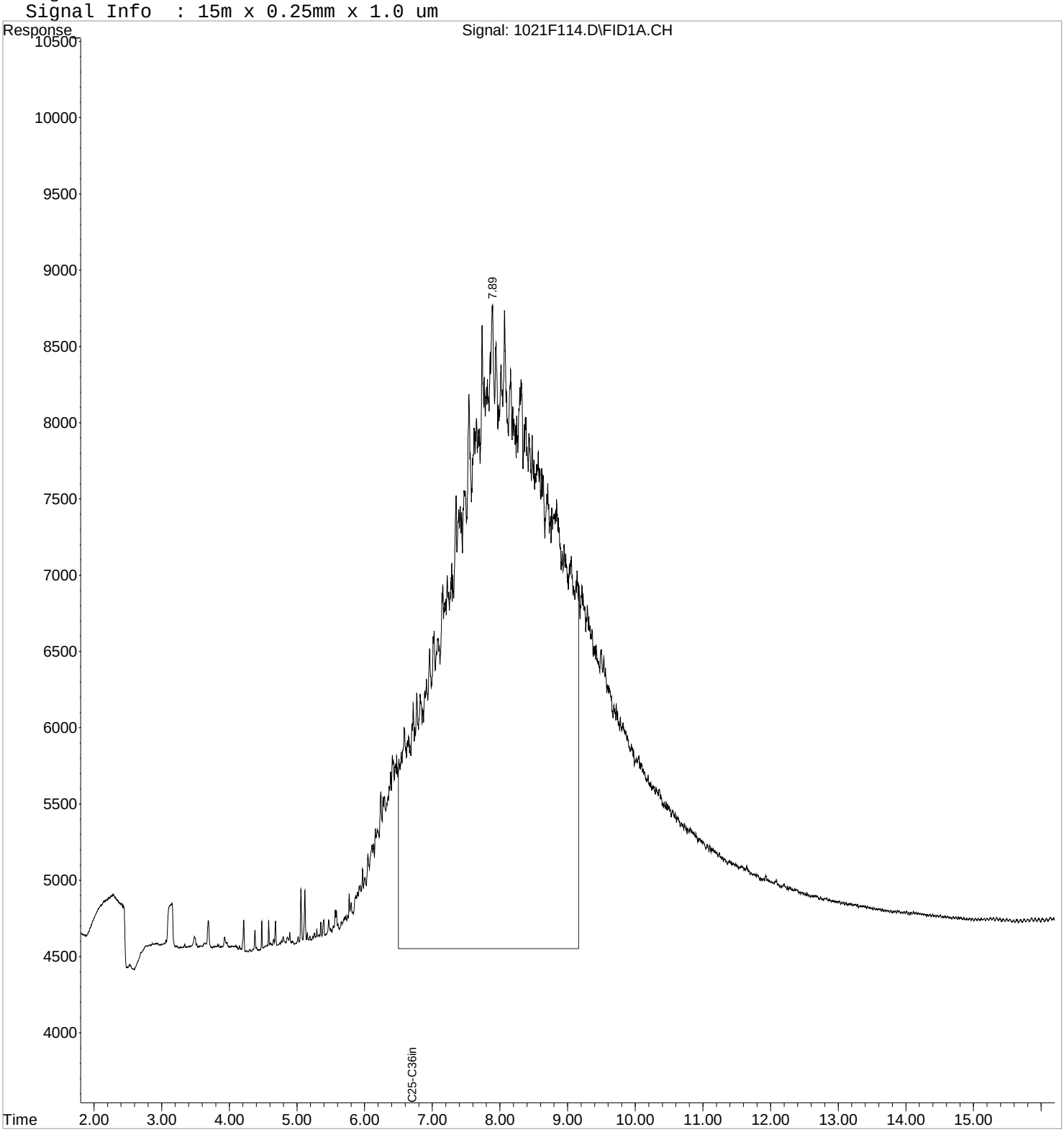
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F114.D Vial: 10
Acq On : 21 Oct 2019 7:18 pm Operator: TAP
Sample : SVF02-76D 500 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:12 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

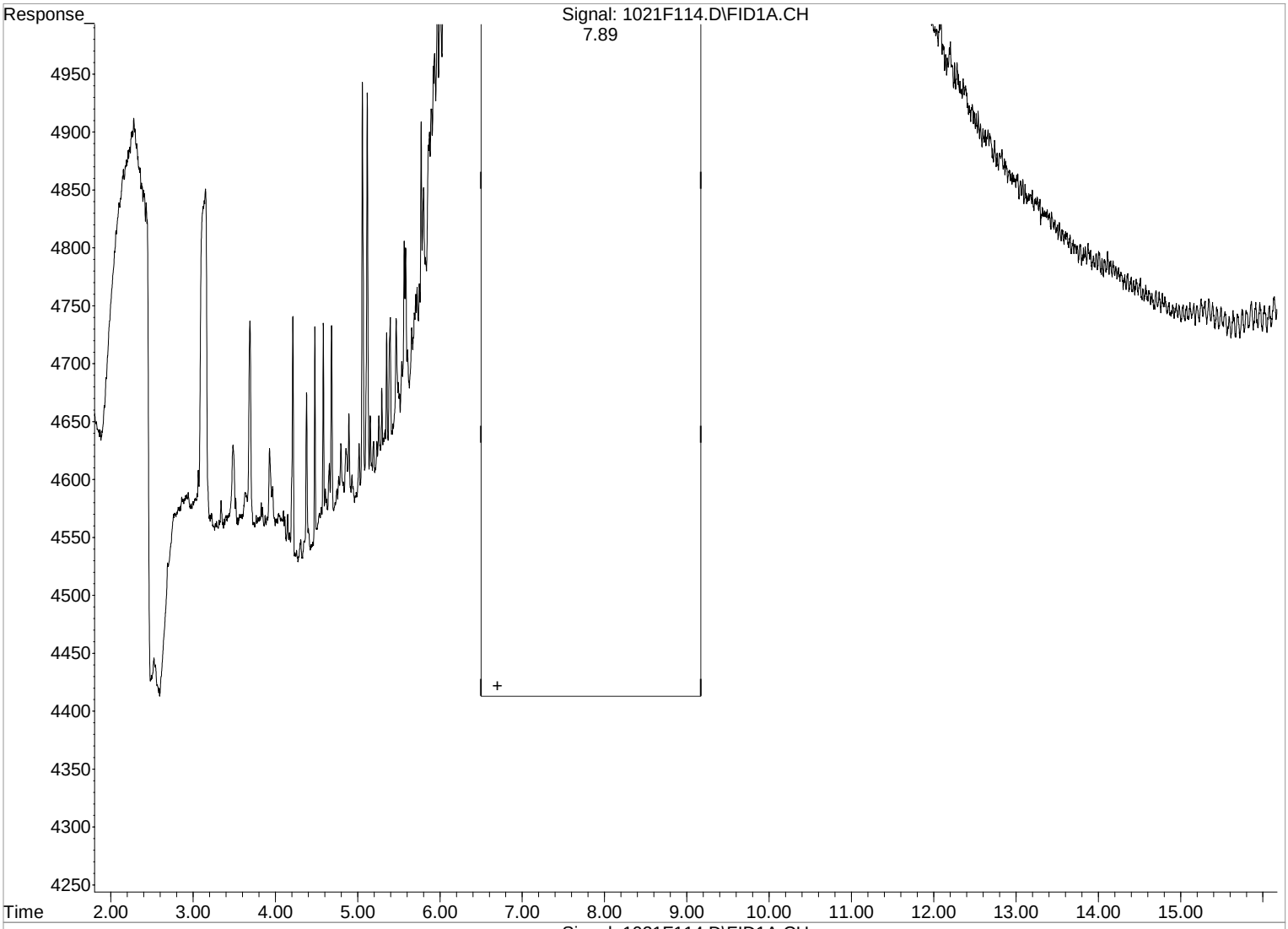


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F114.D Vial: 10
Acq On : 21 Oct 2019 7:18 pm Operator: TAP
Sample : SVF02-76D 500 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:50 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F114.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 623.961ppm

response 456488

Manual Integration:

Before

10/24/19

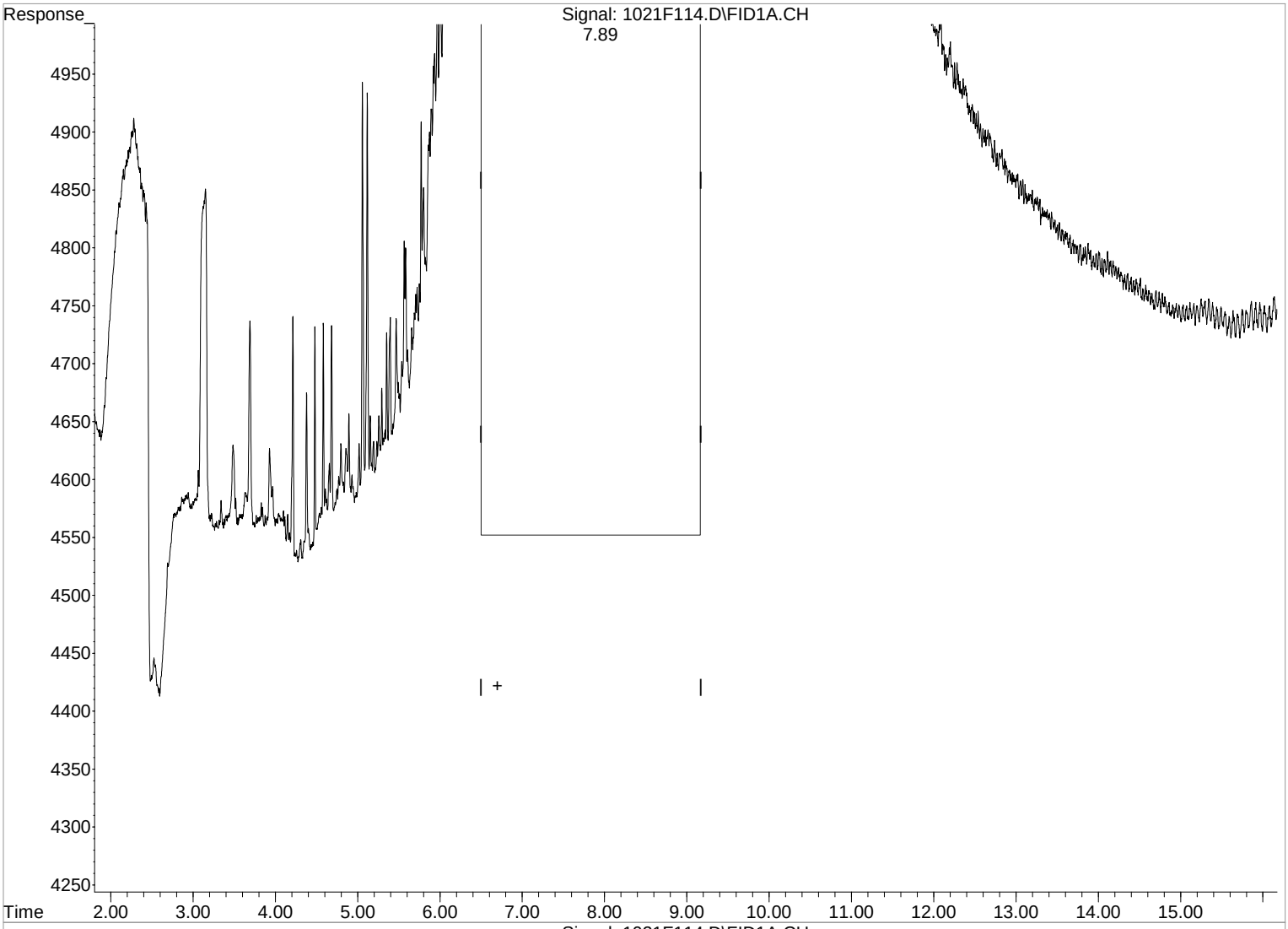
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F114.D Vial: 10
Acq On : 21 Oct 2019 7:18 pm Operator: TAP
Sample : SVF02-76D 500 AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 7:50 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F114.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 592.227ppm

response 433271

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F115.D Vial: 11
Acq On : 21 Oct 2019 7:40 pm Operator: TAP
Sample : SVF02-76C 2K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:14:21 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
11) H	C25-C36in RRO [AK103]	6.70	1674312	2288.573	ppm

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

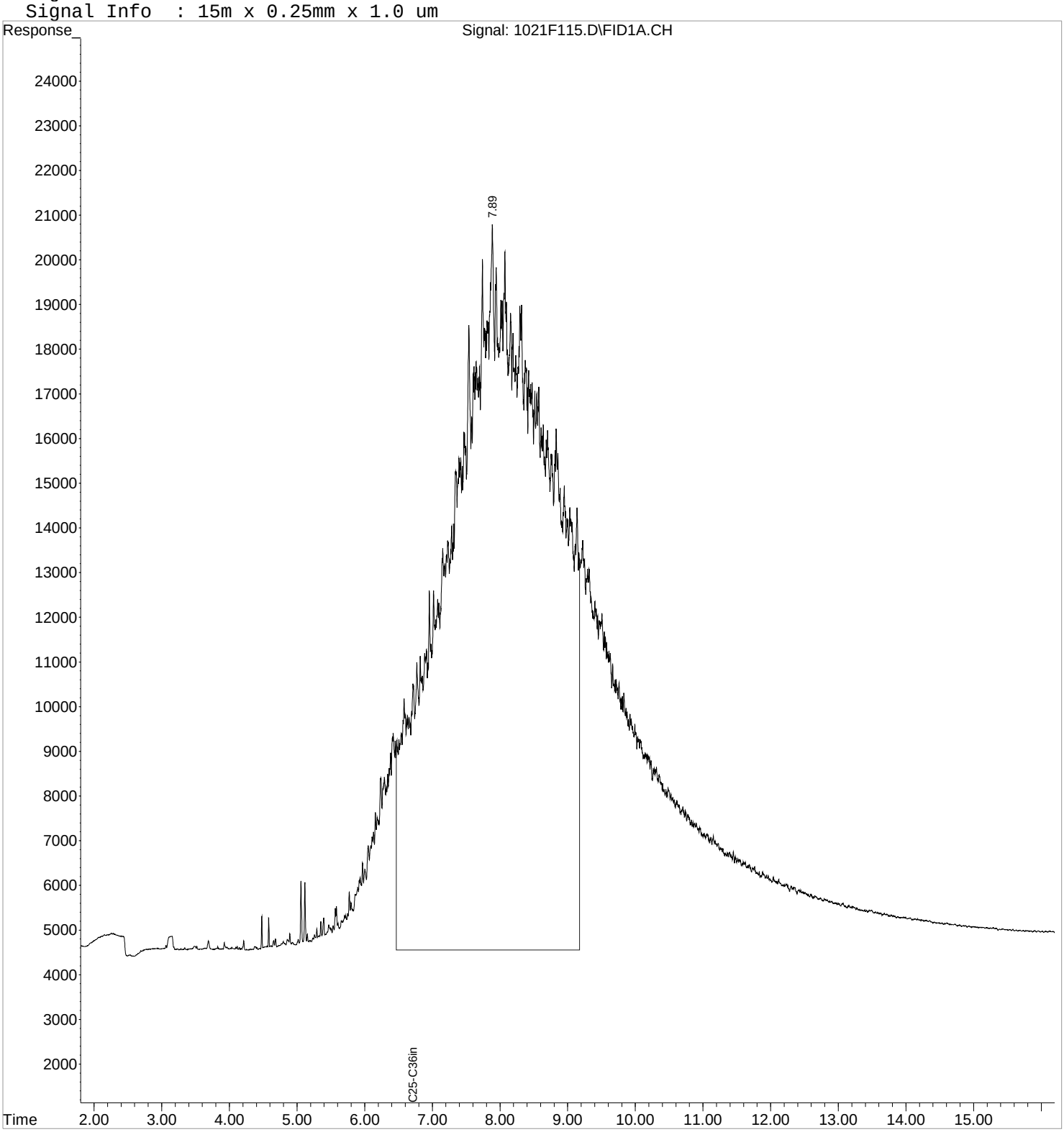
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F115.D Vial: 11
Acq On : 21 Oct 2019 7:40 pm Operator: TAP
Sample : SVF02-76C 2K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:16 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

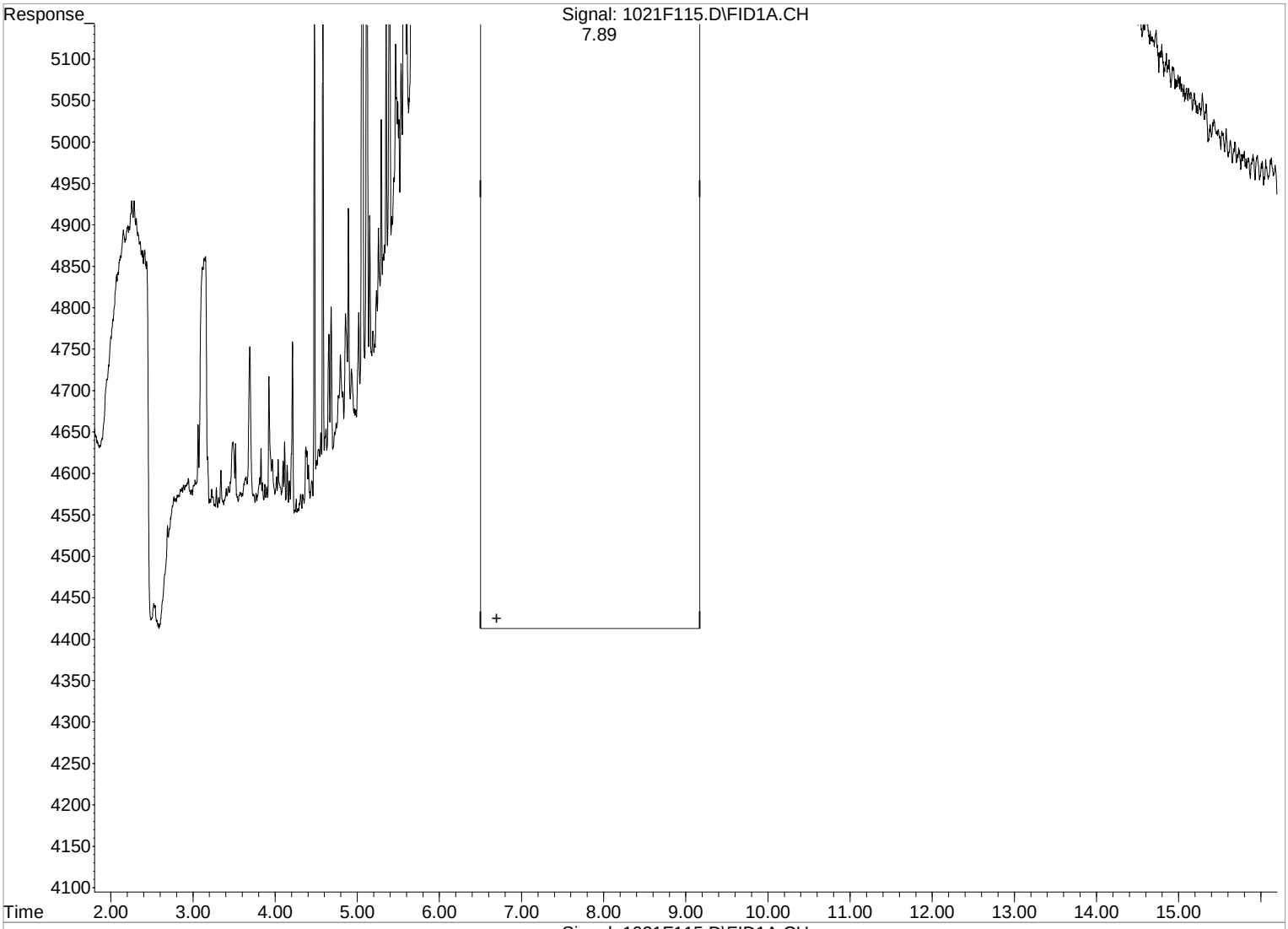


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F115.D Vial: 11
Acq On : 21 Oct 2019 7:40 pm Operator: TAP
Sample : SVF02-76C 2K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:14 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F115.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 2302.741ppm

response 1684677

Manual Integration:

Before

10/24/19

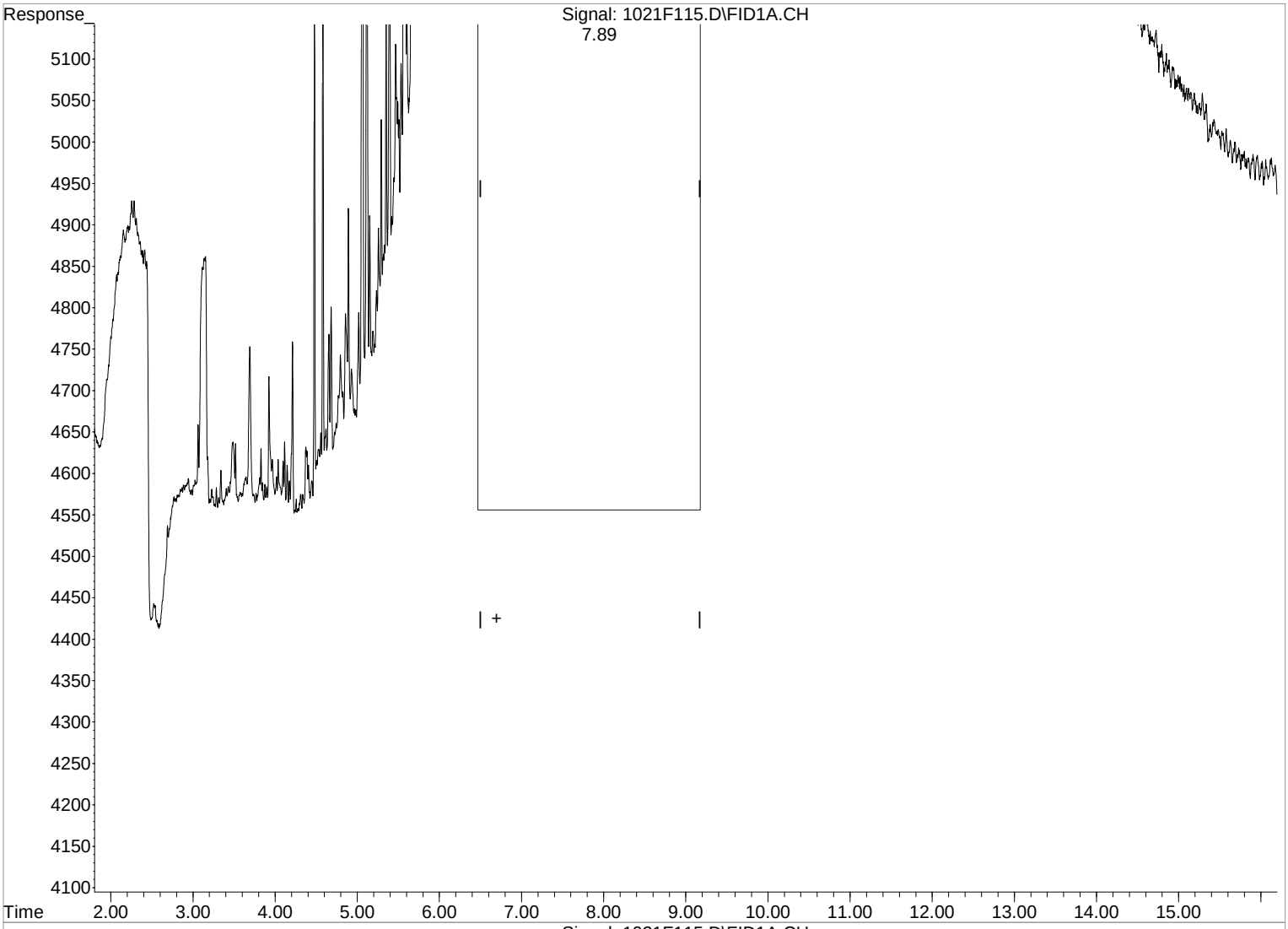
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F115.D Vial: 11
Acq On : 21 Oct 2019 7:40 pm Operator: TAP
Sample : SVF02-76C 2K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:14 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F115.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 2288.573ppm

response 1674312

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F116.D Vial: 12
Acq On : 21 Oct 2019 8:03 pm Operator: TAP
Sample : SVF02-76B 5K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:17:11 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
11) H	C25-C36in RRO [AK103]	6.70	3984931	5446.897	ppm

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

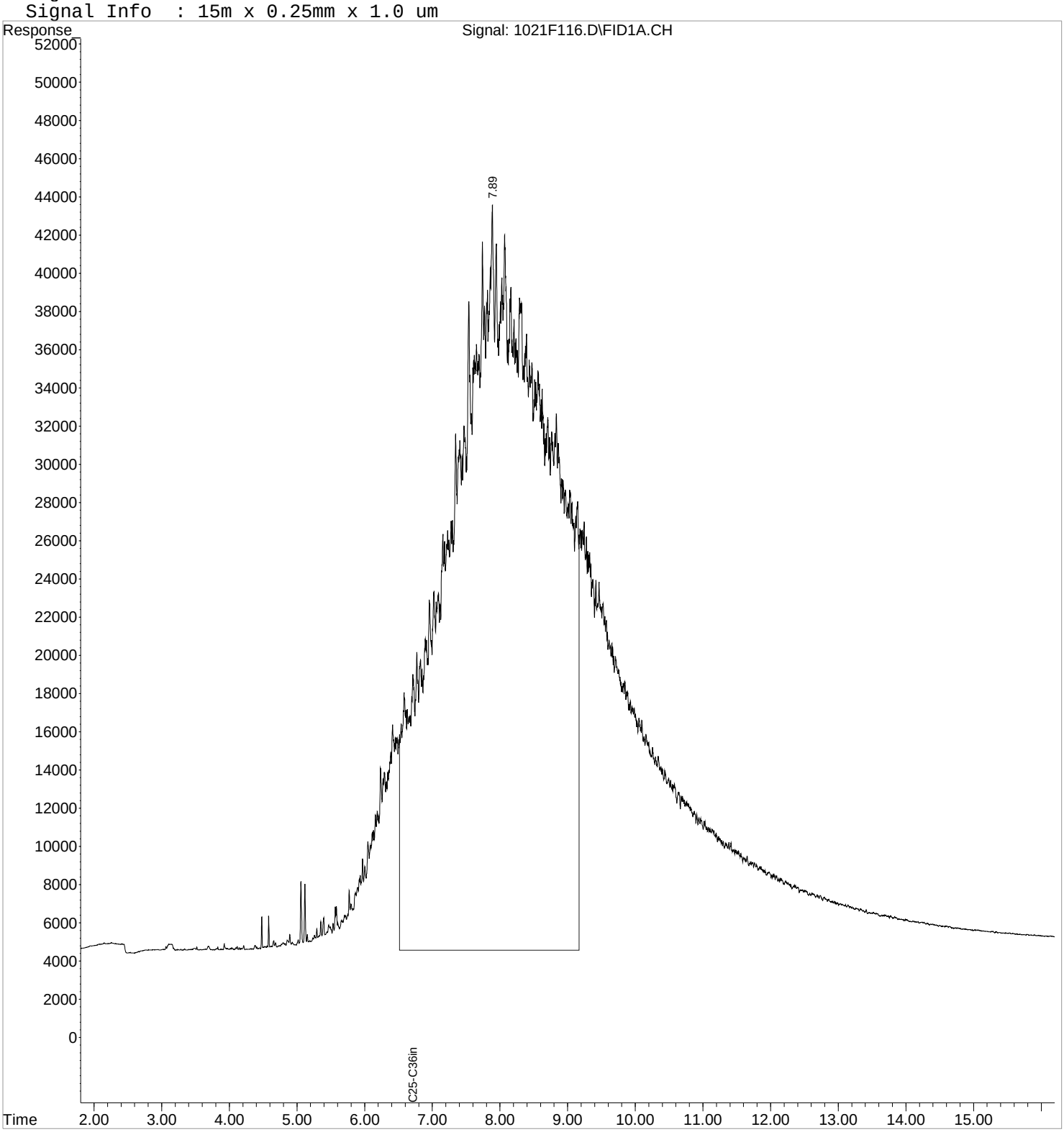
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F116.D Vial: 12
Acq On : 21 Oct 2019 8:03 pm Operator: TAP
Sample : SVF02-76B 5K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:17 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

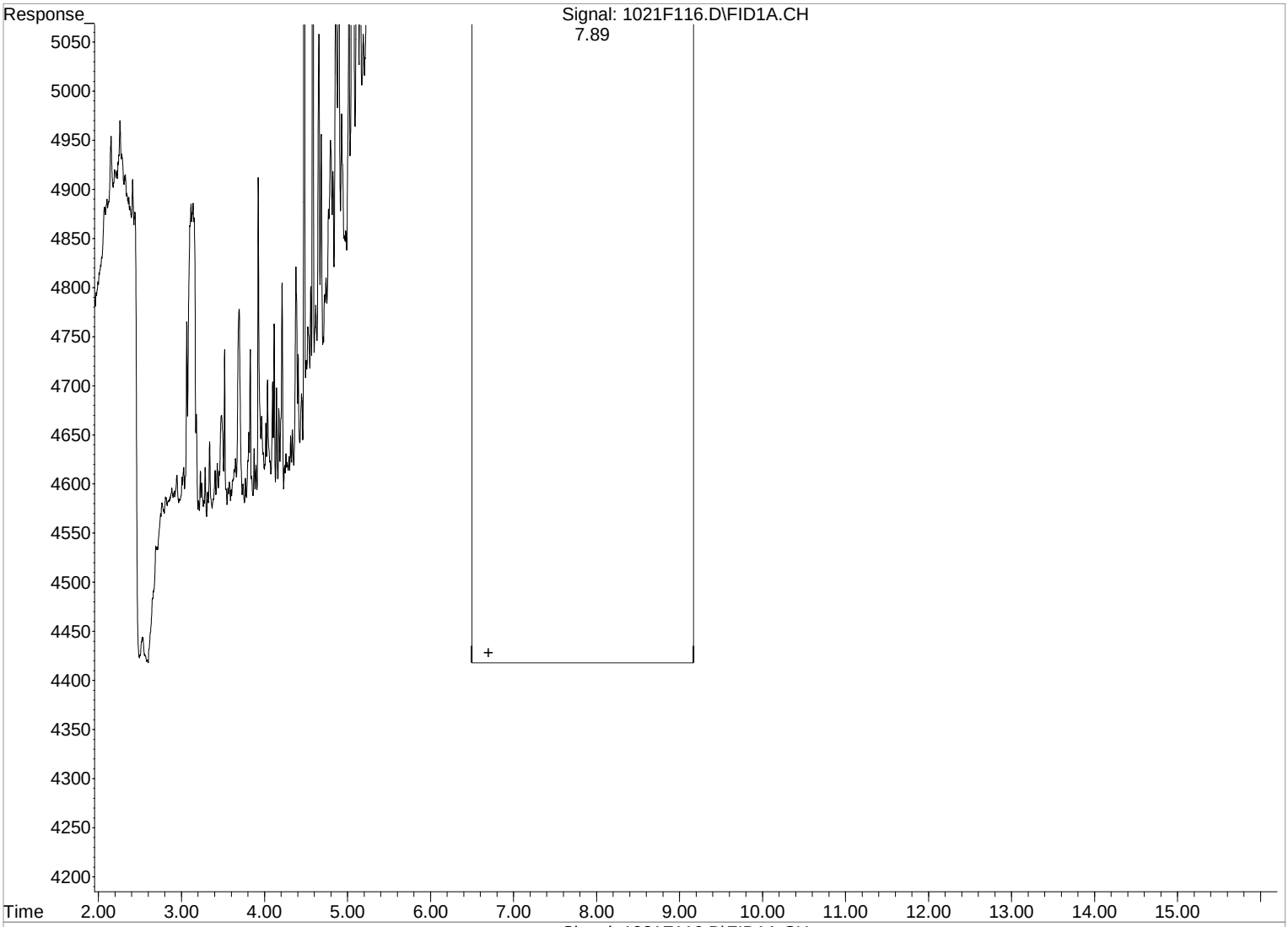


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F116.D Vial: 12
Acq On : 21 Oct 2019 8:03 pm Operator: TAP
Sample : SVF02-76B 5K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:17 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F116.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 5492.949ppm

response 4018622

Manual Integration:

Before

10/24/19

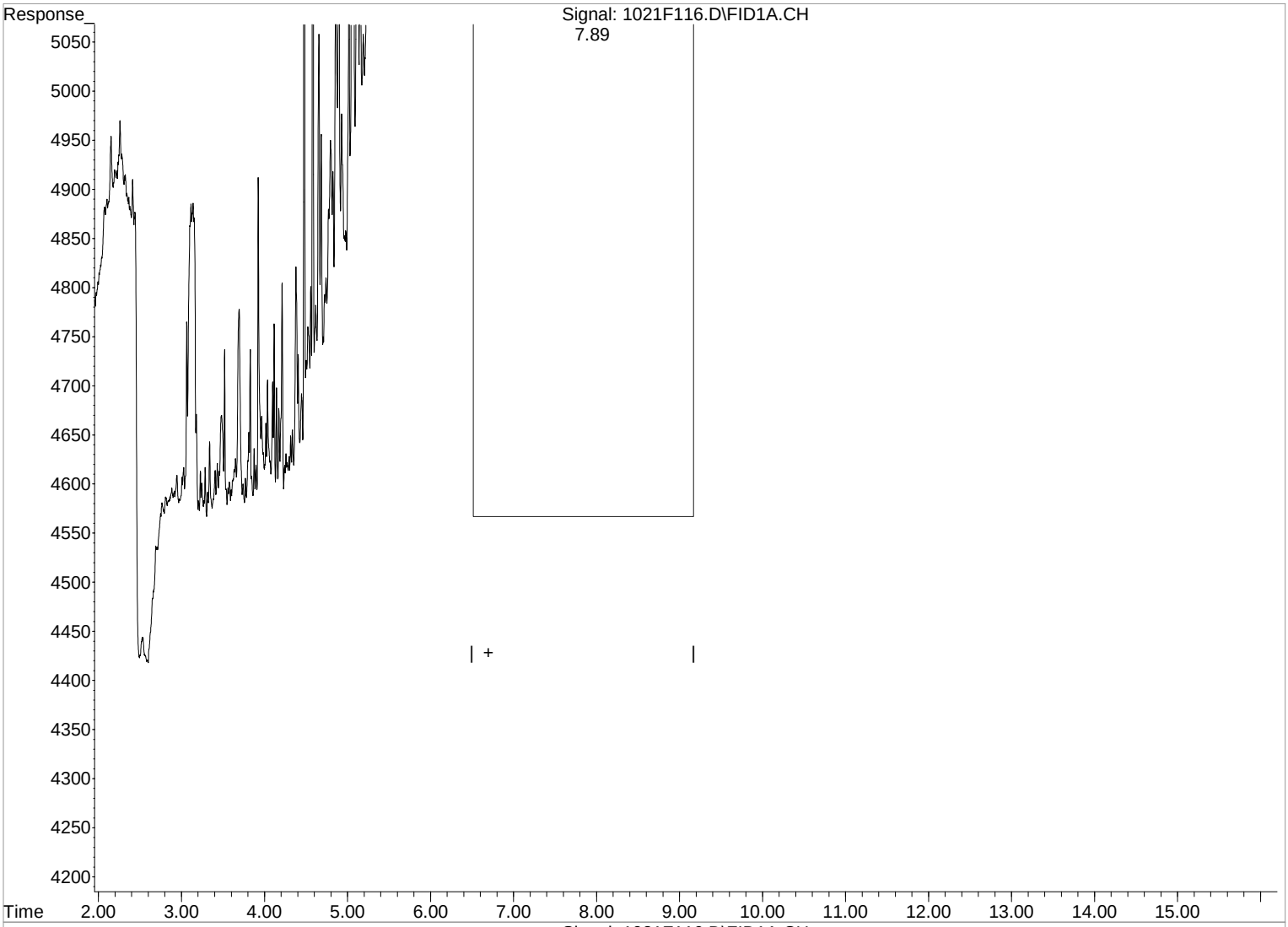
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F116.D Vial: 12
Acq On : 21 Oct 2019 8:03 pm Operator: TAP
Sample : SVF02-76B 5K AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:17 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F116.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 5446.897ppm

response 3984931

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F117.D Vial: 1
Acq On : 21 Oct 2019 8:25 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 09:12:24 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
11) H	C25-C36in RRO [AK103]	6.70	30447	33.952 ppm

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

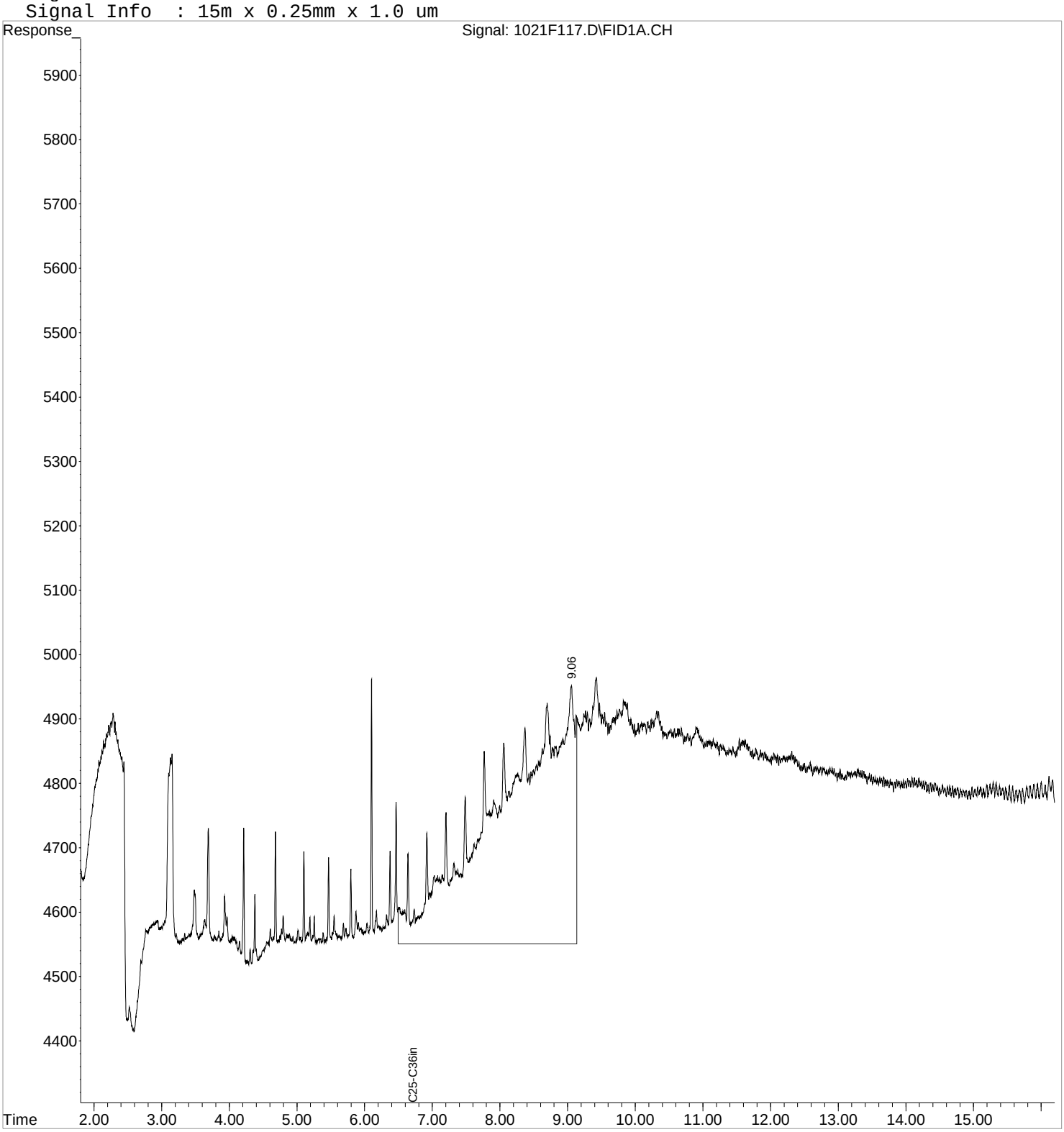
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F117.D Vial: 1
Acq On : 21 Oct 2019 8:25 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:13 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

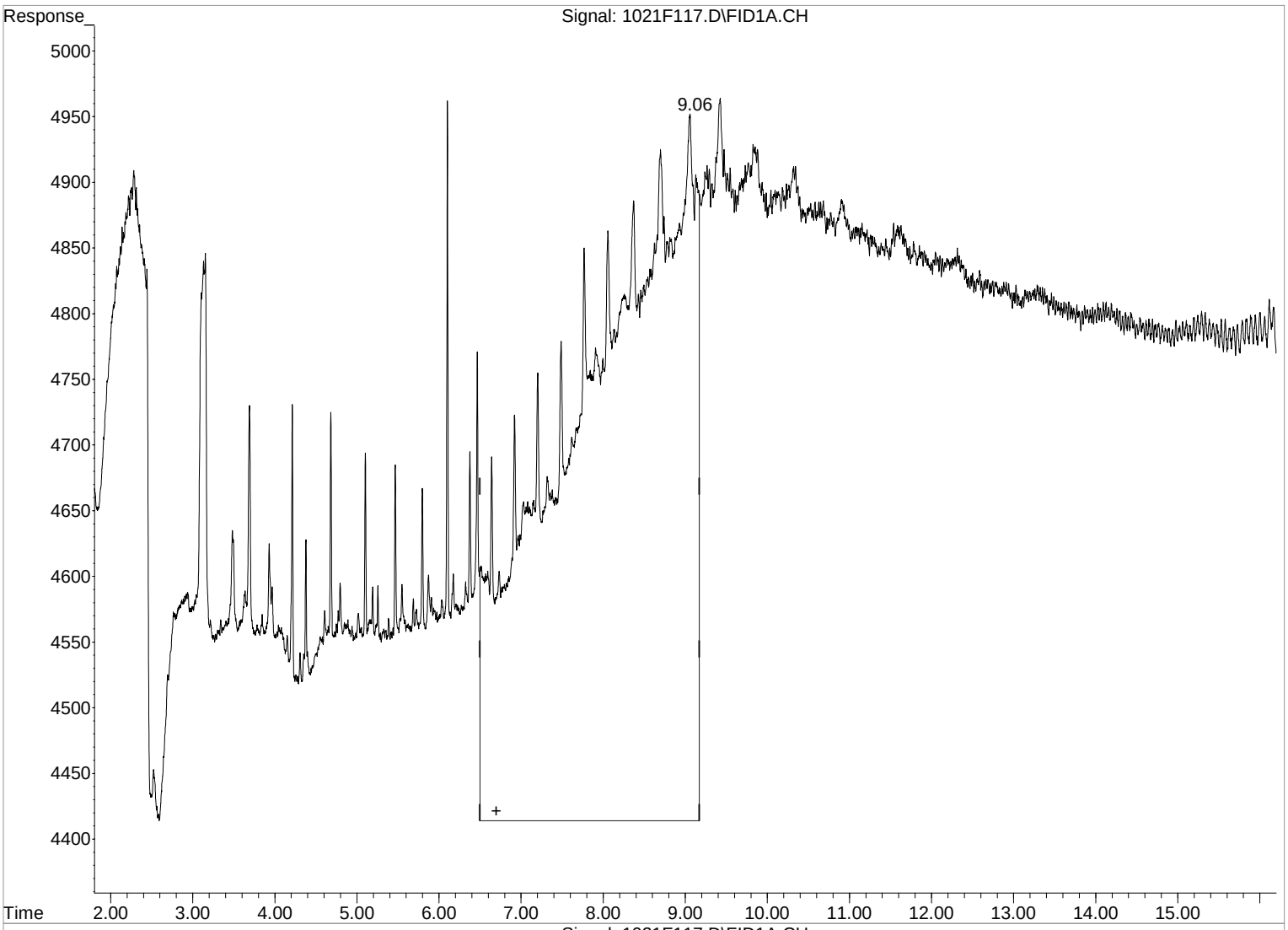


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F117.D Vial: 1
Acq On : 21 Oct 2019 8:25 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:12 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Multiple Level Calibration



Signal: 1021F117.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 59.173ppm

response 53065

Manual Integration:

Before

10/24/19

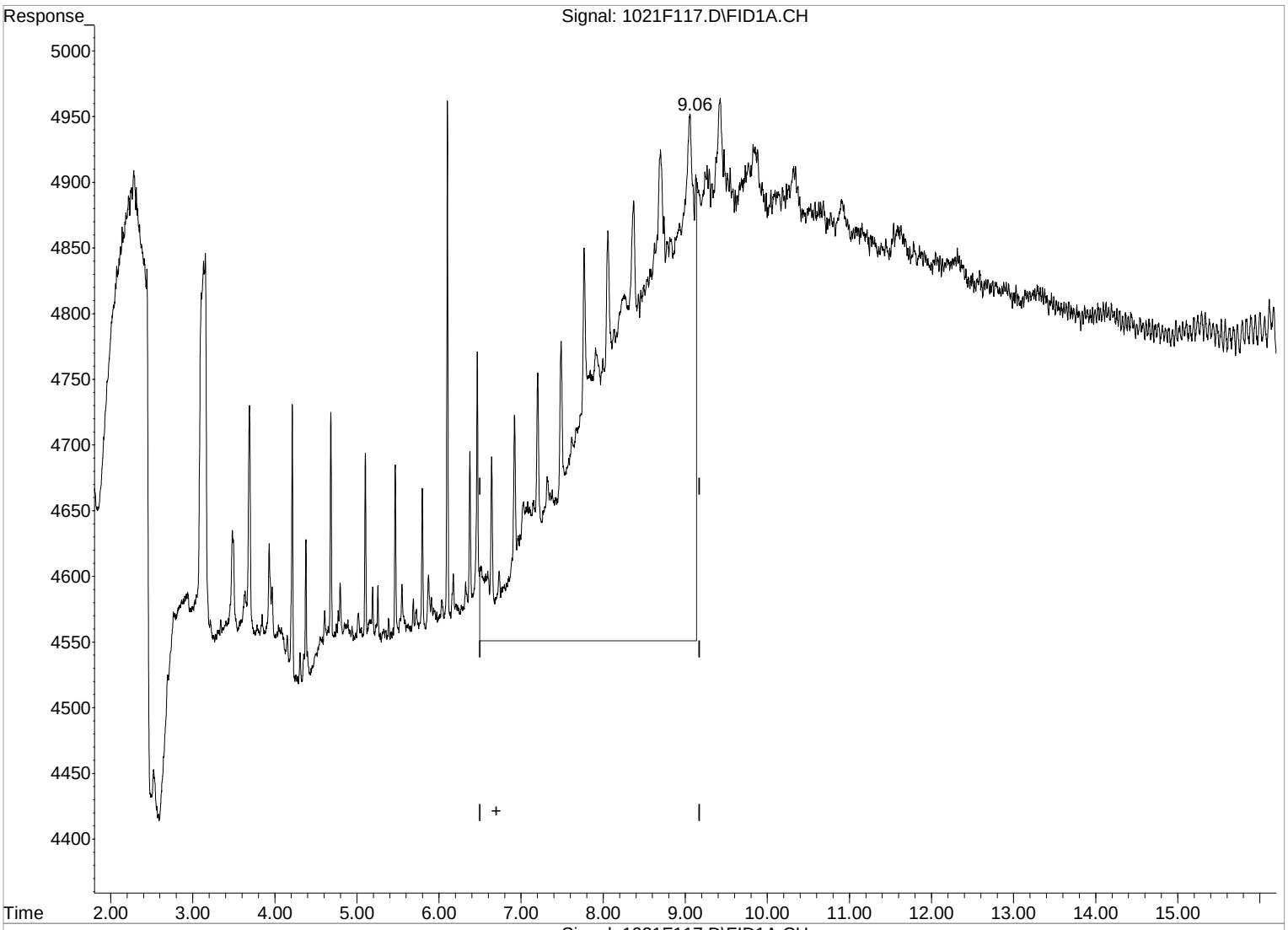
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F117.D Vial: 1
Acq On : 21 Oct 2019 8:25 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:12 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Multiple Level Calibration



Signal: 1021F117.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 33.952ppm

response 30447

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F118.D Vial: 13
Acq On : 21 Oct 2019 8:48 pm Operator: TAP
Sample : SVF02-76H ICV AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 09:08:27 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
11) H	C25-C36in RRO [AK103]	6.70	851904	949.961 ppm

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

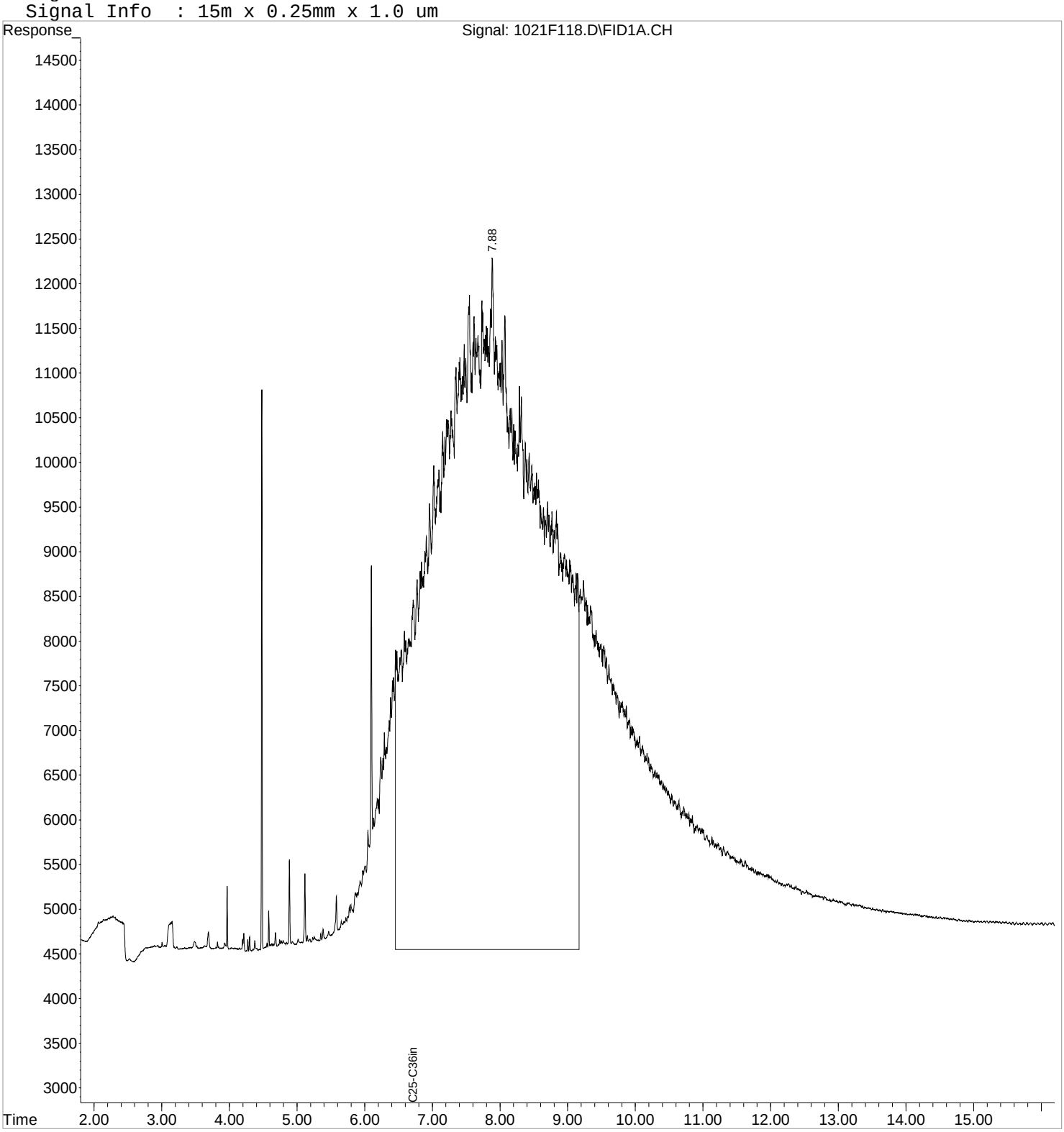
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F118.D Vial: 13
Acq On : 21 Oct 2019 8:48 pm Operator: TAP
Sample : SVF02-76H ICV AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:09 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

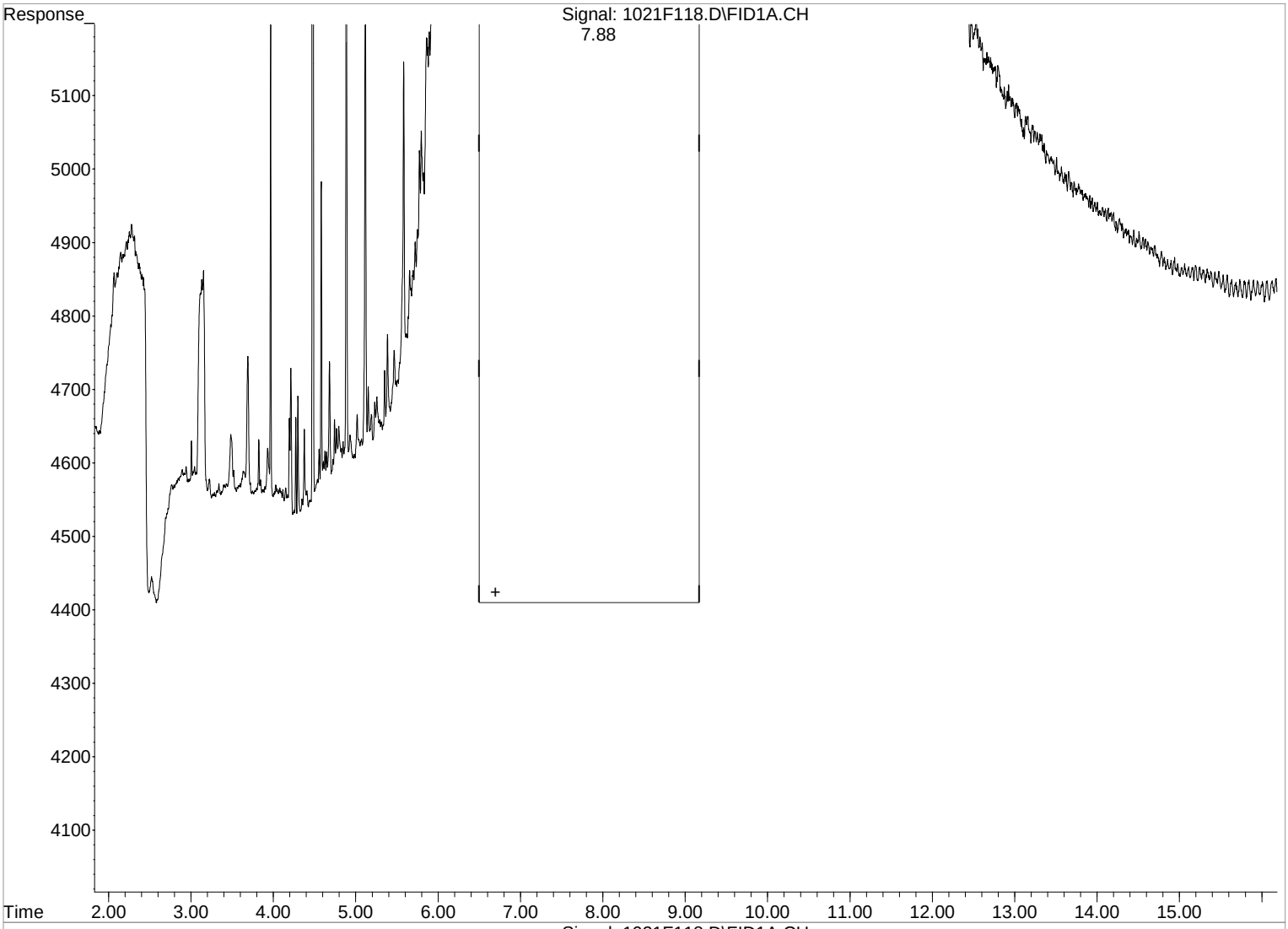


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F118.D Vial: 13
Acq On : 21 Oct 2019 8:48 pm Operator: TAP
Sample : SVF02-76H ICV AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:08 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Multiple Level Calibration



Signal: 1021F118.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 965.319ppm

response 865677

Manual Integration:

Before

10/24/19

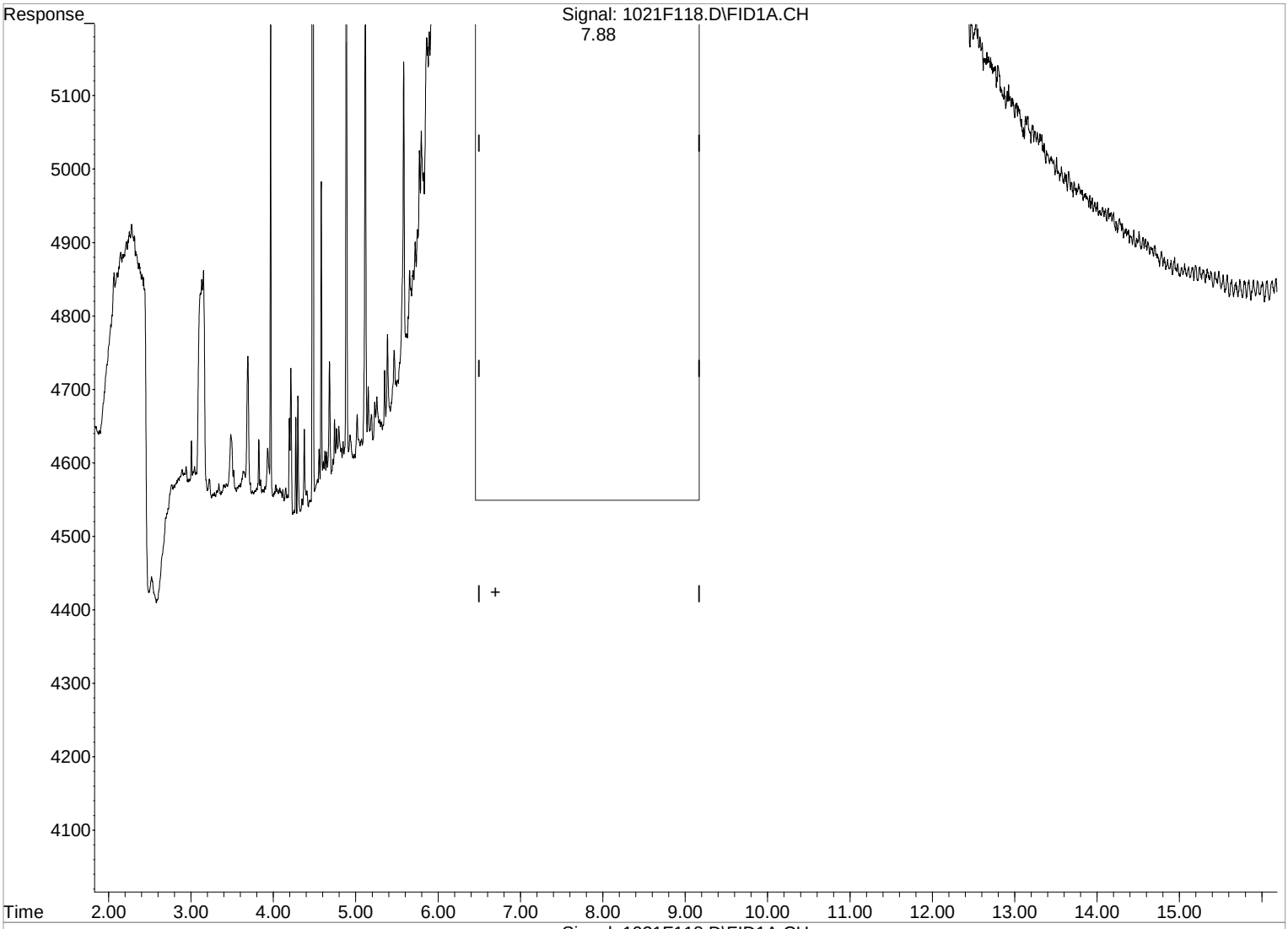
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F118.D Vial: 13
Acq On : 21 Oct 2019 8:48 pm Operator: TAP
Sample : SVF02-76H ICV AK 103 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:08 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Multiple Level Calibration



Signal: 1021F118.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 949.961ppm

response 851904

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 09:09:45 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
11) H C25-C36in RRO [AK103]	6.70	14949	16.670 ppm

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

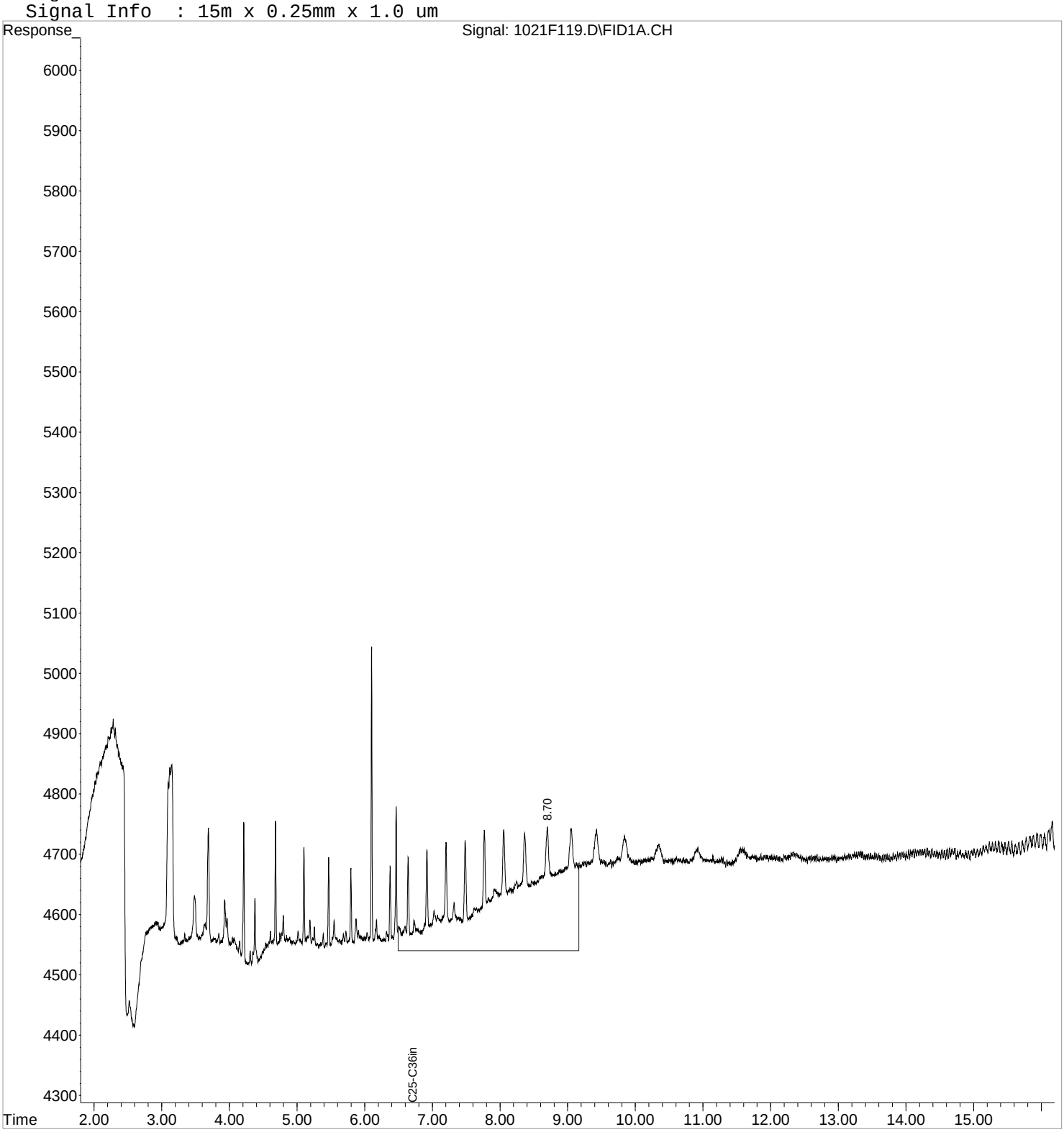
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:10 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

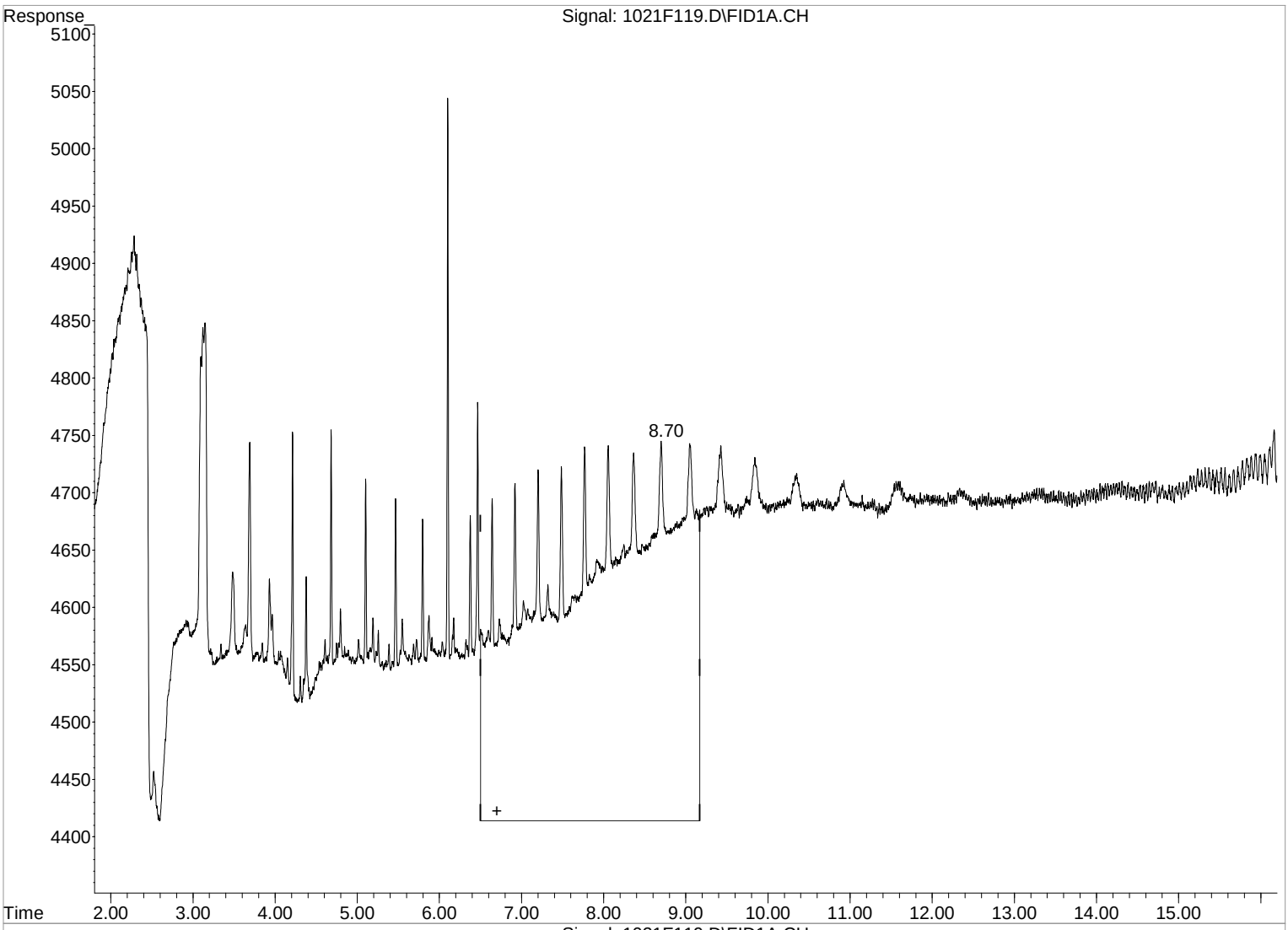


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:18 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 48.081ppm

response 35176

Manual Integration:

Before

10/24/19

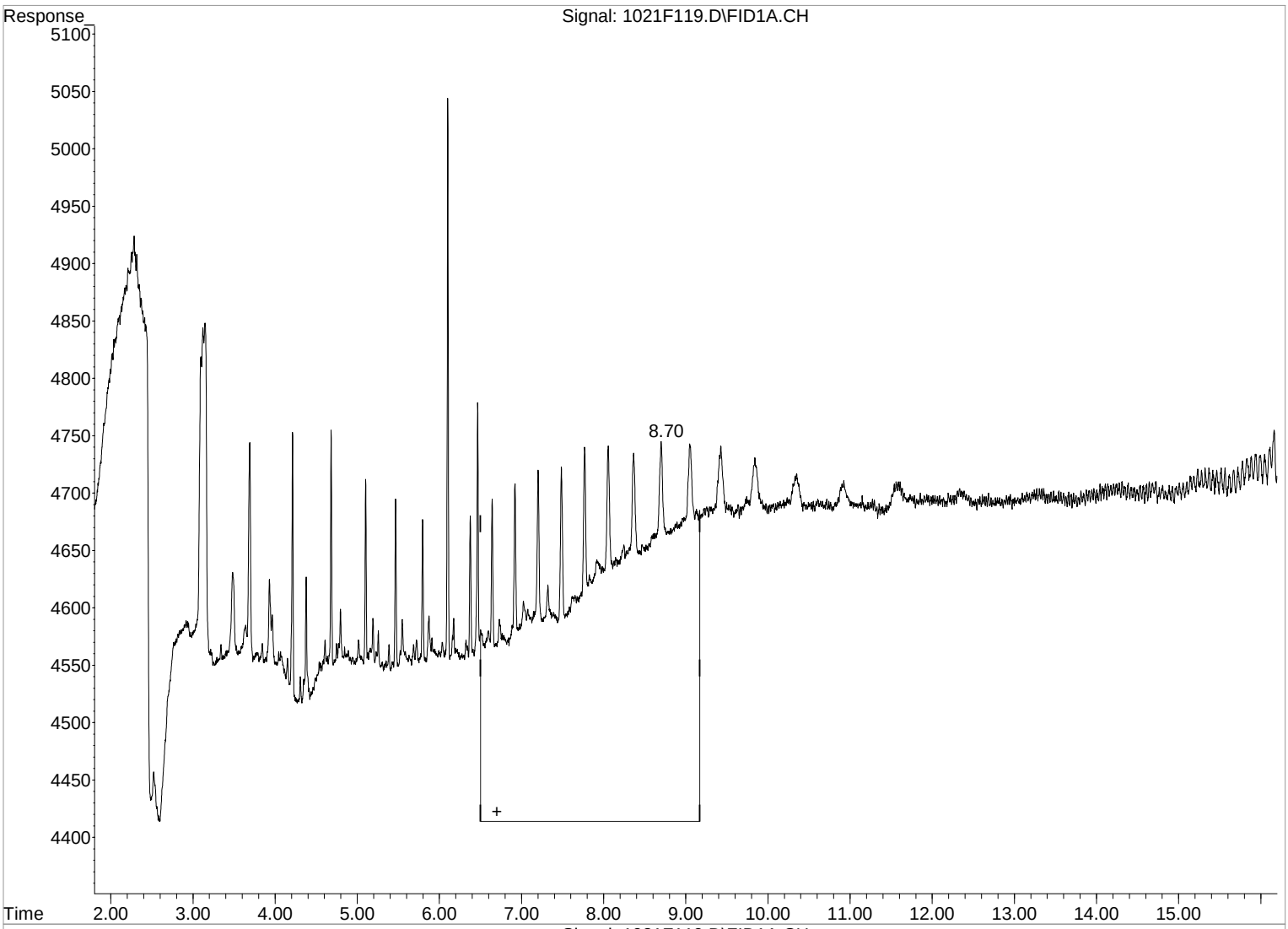
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:09 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 39.225ppm

response 35176

Manual Integration:

Before

10/24/19

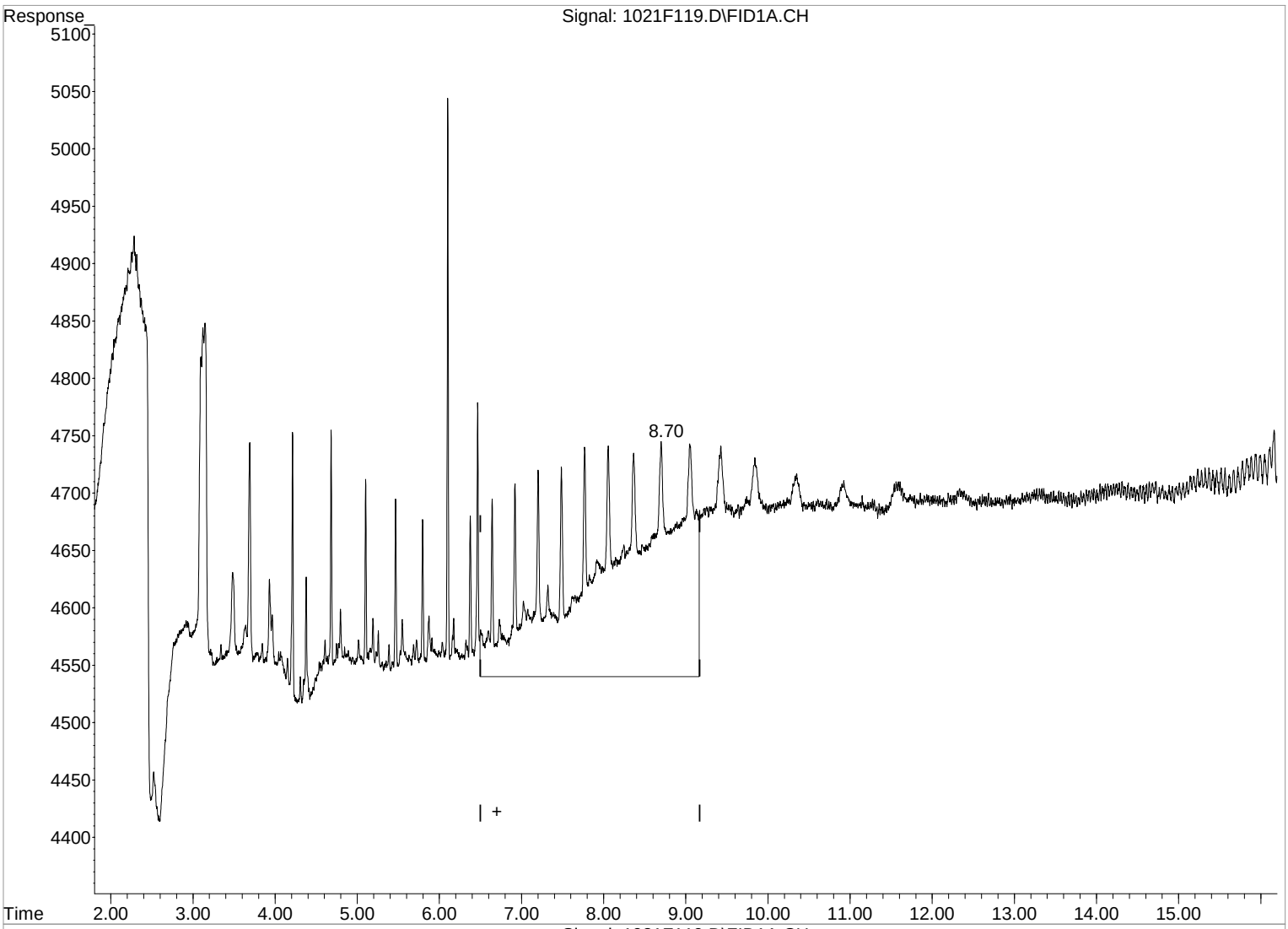
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:18 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 20.433ppm

response 14949

Manual Integration:

After

Baseline/Shoulder

10/24/19

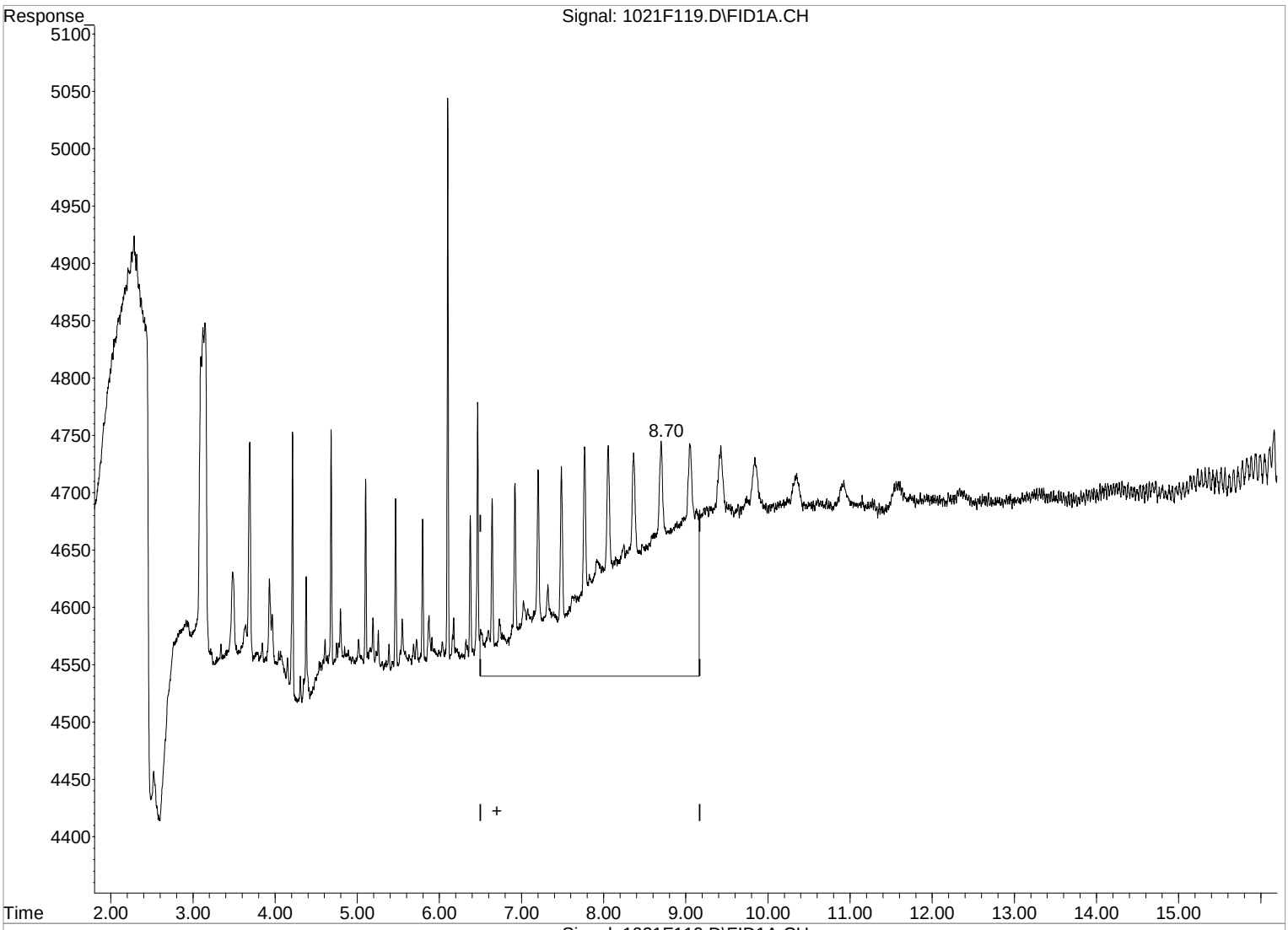
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:09 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(11) C25-C36in RRO [AK103] (H)

6.70min 16.670ppm

response 14949

Manual Integration:

After

Baseline/Shoulder

10/24/19

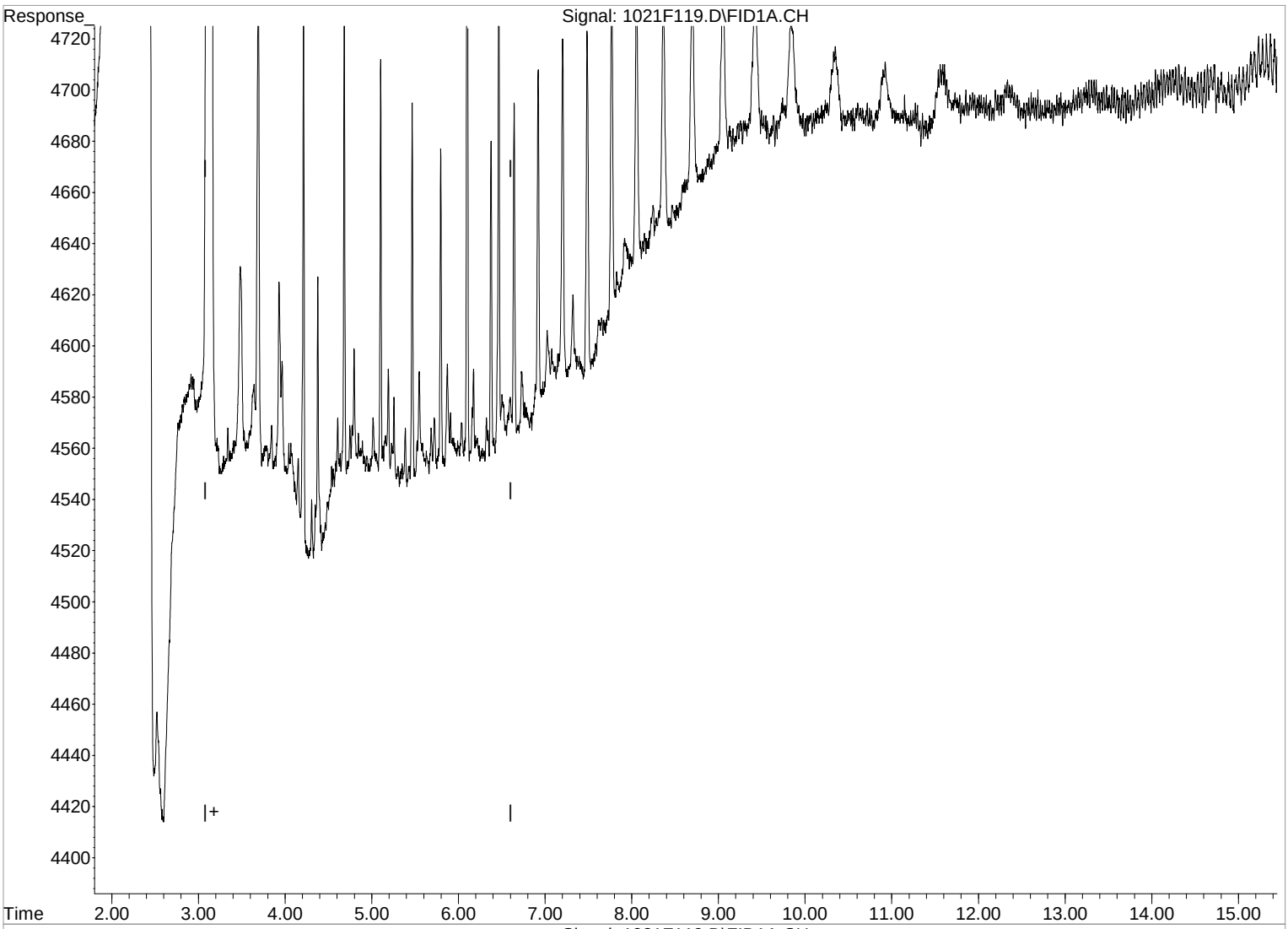
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

0.00min 0.000ppm d

response 0

Manual Integration:

Before

10/24/19

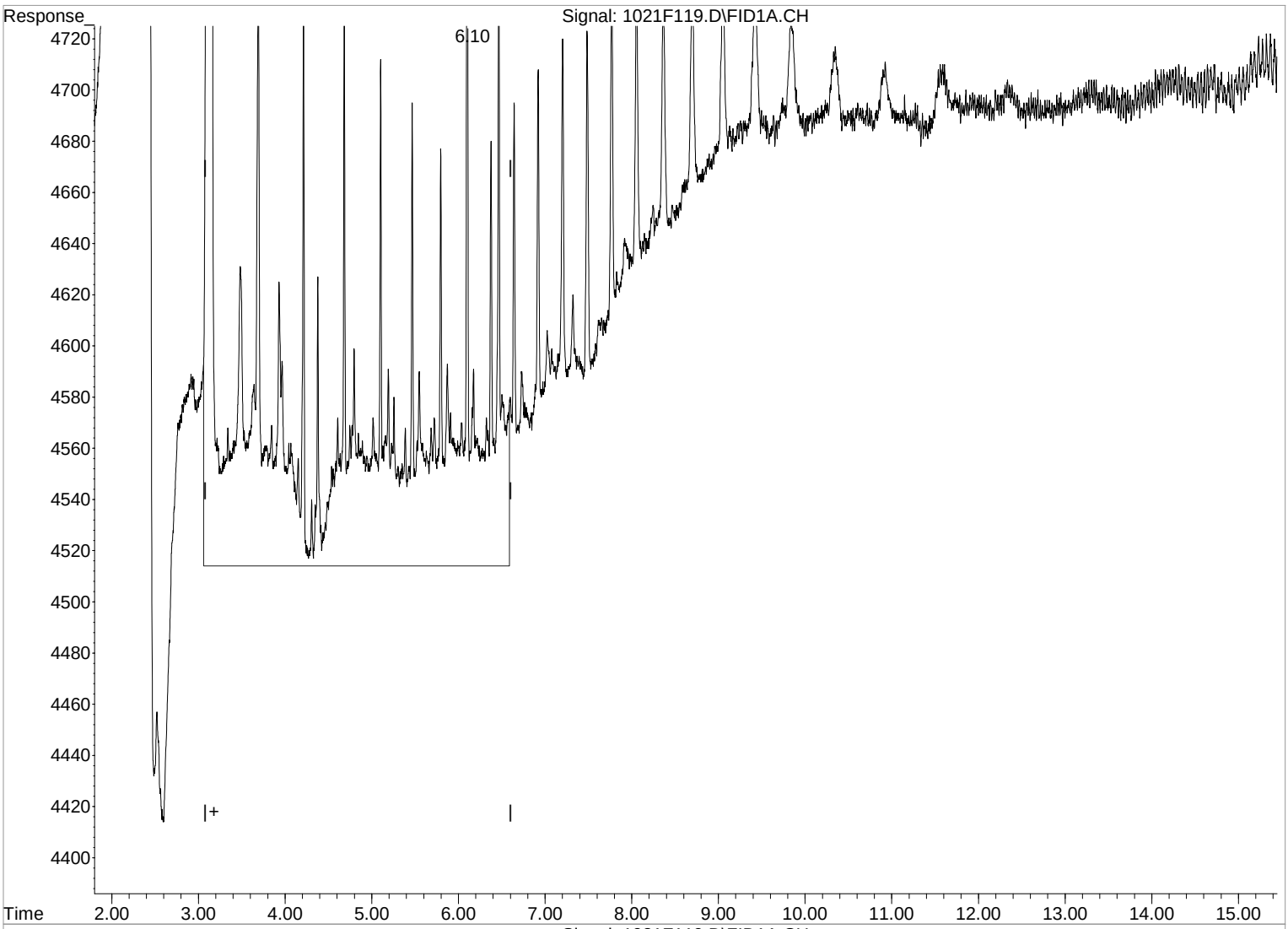
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

3.18min 8.143ppm

response 12774

Manual Integration:

After

Baseline/Shoulder

10/24/19

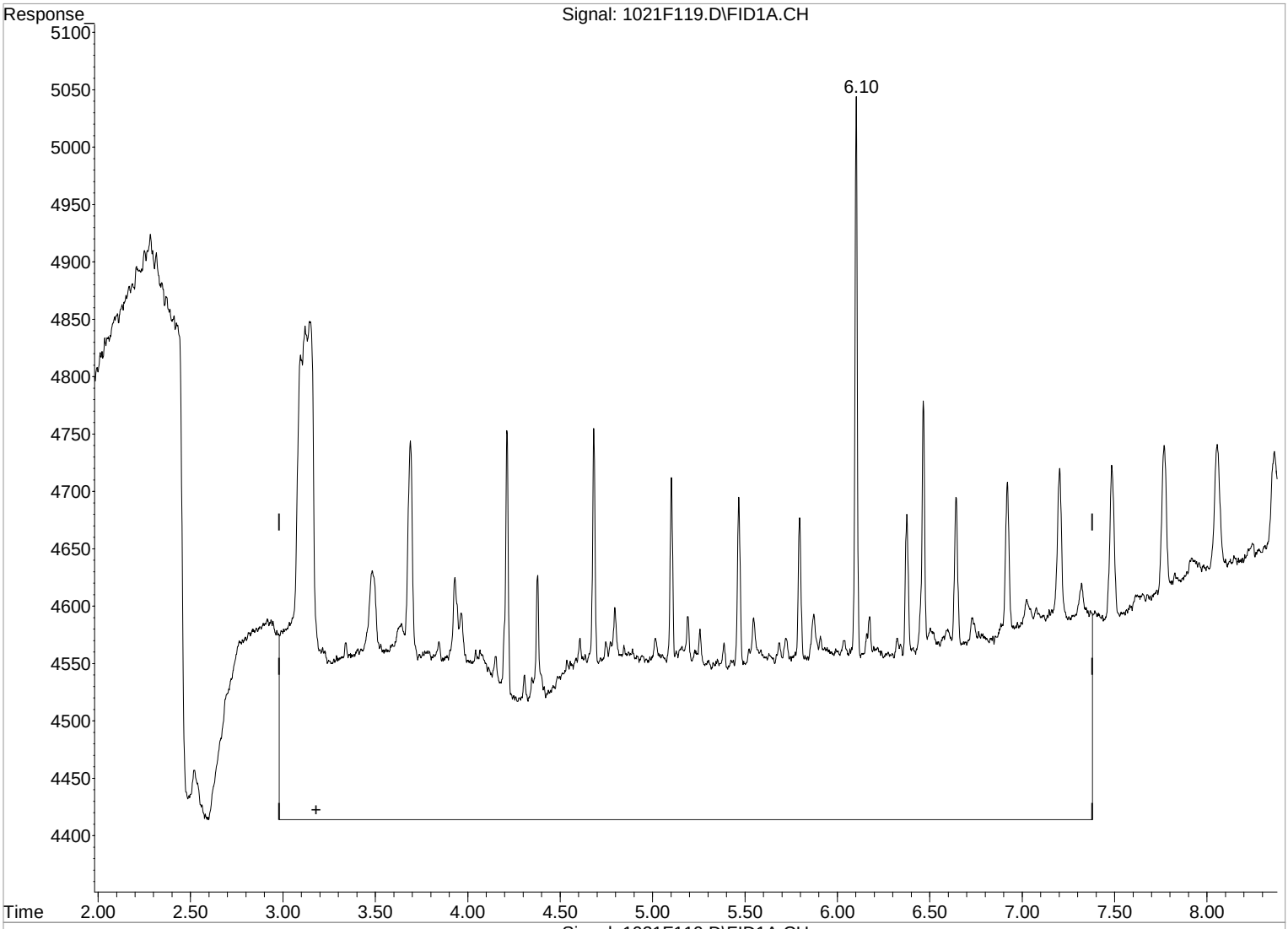
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 27.150ppm

response 43373

Manual Integration:

Before

10/24/19

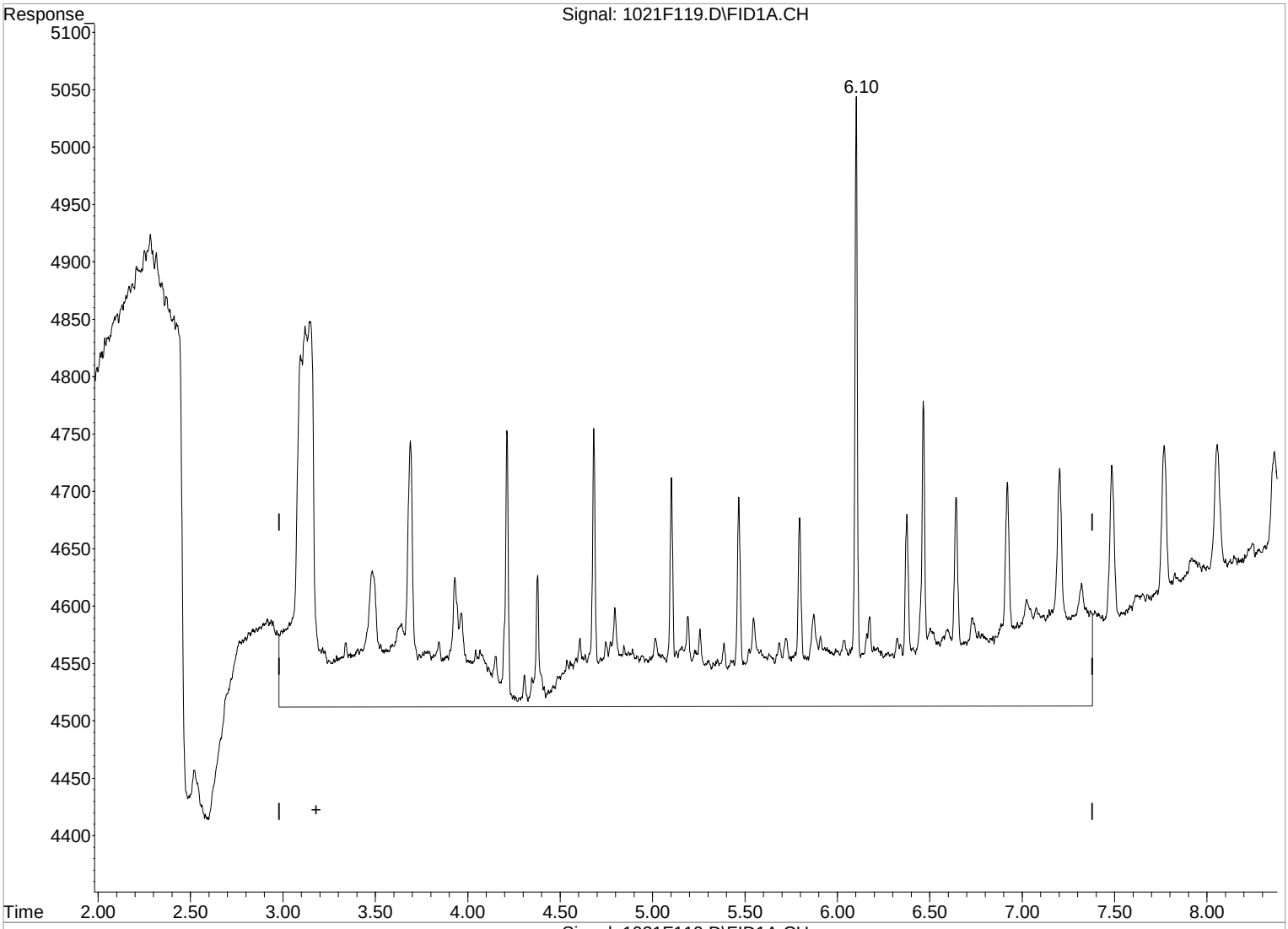
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 10.959ppm

response 17507

Manual Integration:

After

Baseline/Shoulder

10/24/19

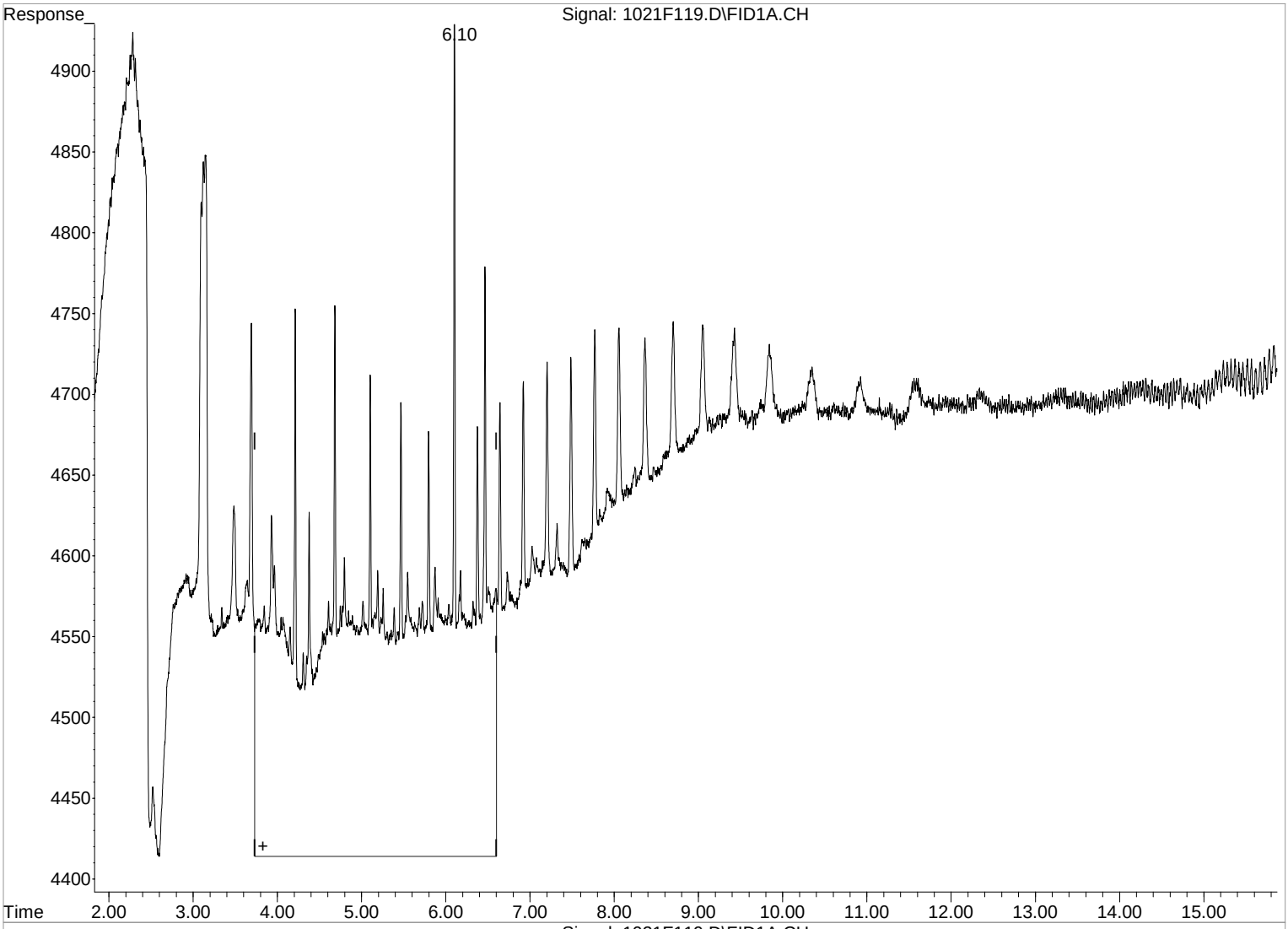
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 19.254ppm

response 26183

Manual Integration:

Before

10/24/19

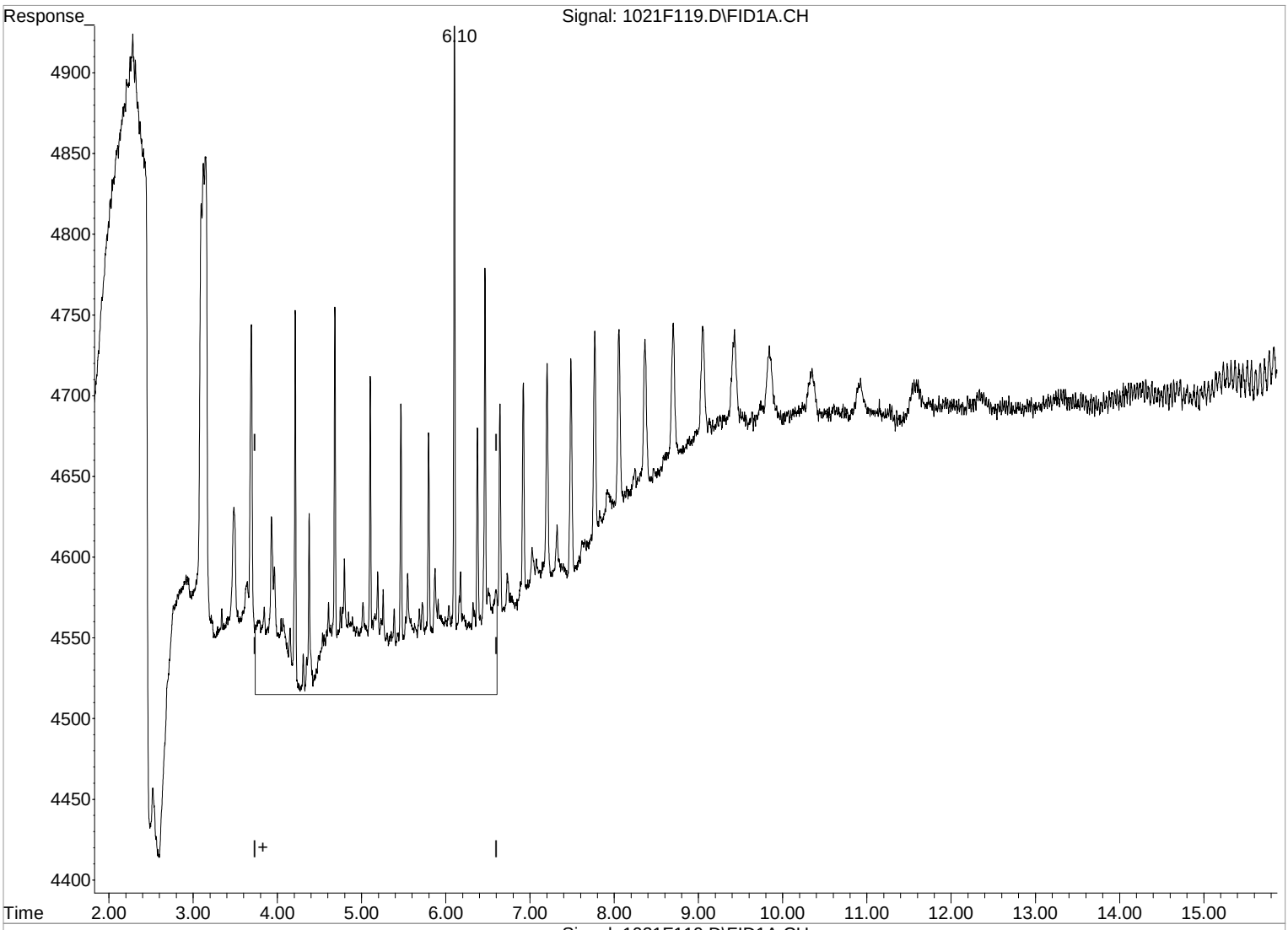
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F119.D Vial: 1
Acq On : 21 Oct 2019 9:10 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:21 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Tue Oct 22 07:30:26 2019
Response via : Multiple Level Calibration



Signal: 1021F119.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 6.471ppm

response 8799

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:35:21 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	4-Bromofluorobenzene	2.84	1073	1.190	ppm
Spiked Amount	50.000	Recovery	=	2.38%	
2) S	o-Terphenyl	5.52	2096	1.084	ppm
Spiked Amount	50.000	Recovery	=	2.17%	
3) S	n-Triacontane	7.67	1738	1.235	ppm
Spiked Amount	50.000	Recovery	=	2.47%	
	Target Compounds				
6) H	C10-C25ex DRO [AK102]	3.18	41075	26.184	ppm
7) H	C10-C28in DRO [8015]	3.18	42522	26.618	ppm
8) H	C12-C25ex DRO [NWTPH]	3.83	32329	23.774	ppm

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

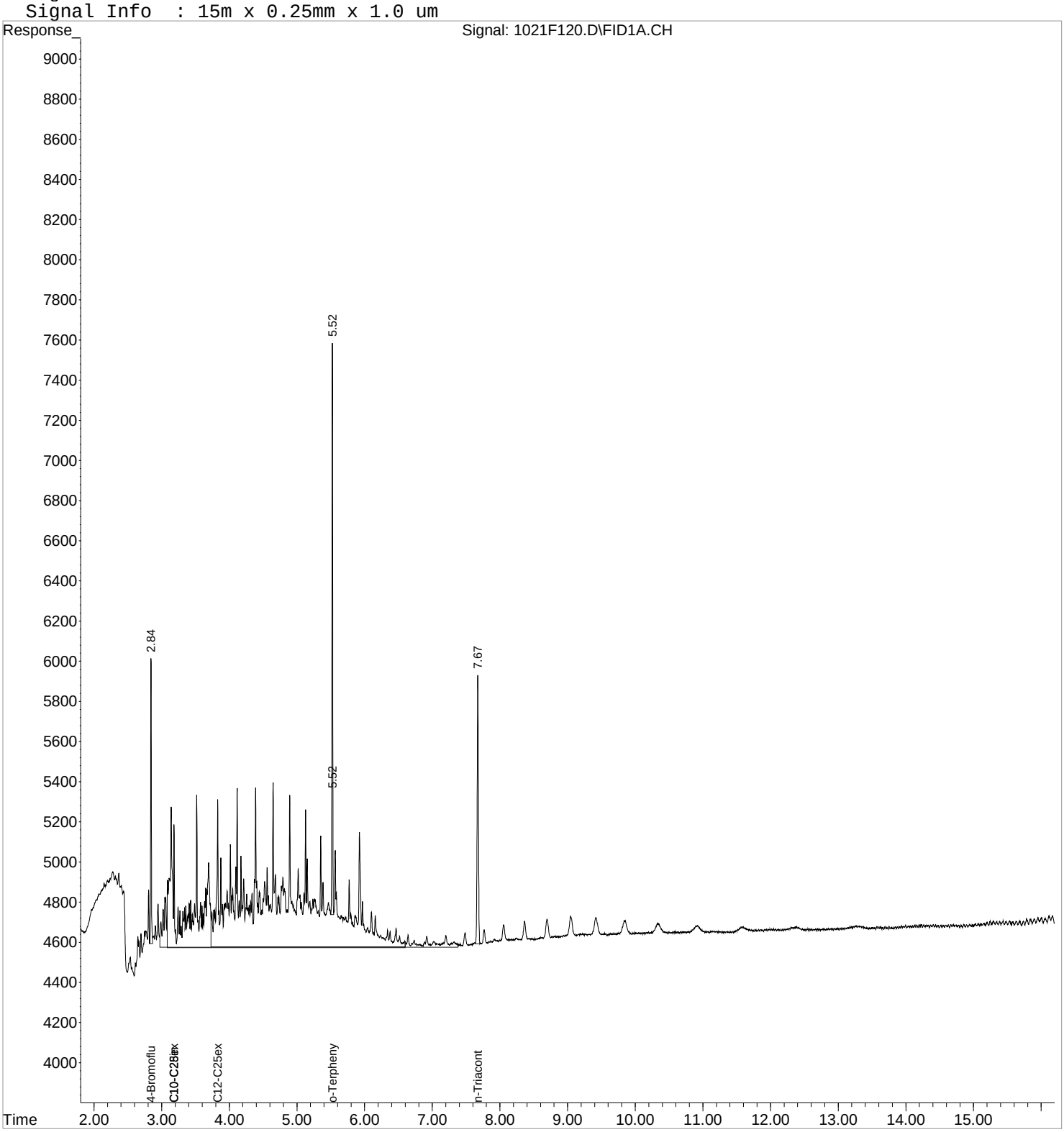
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:36 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

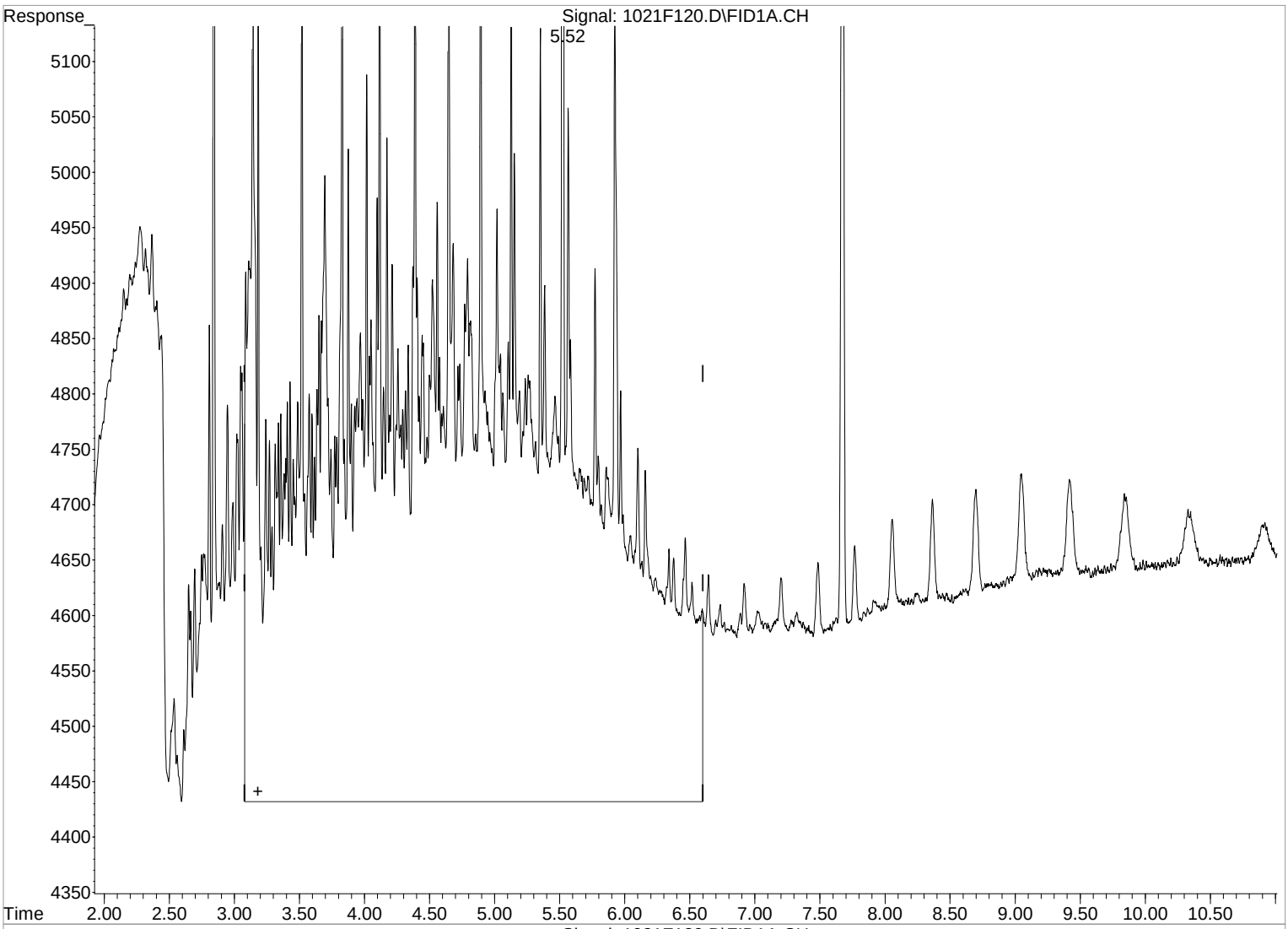


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F120.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

3.18min 45.184ppm

response 70882

Manual Integration:

Before

10/24/19

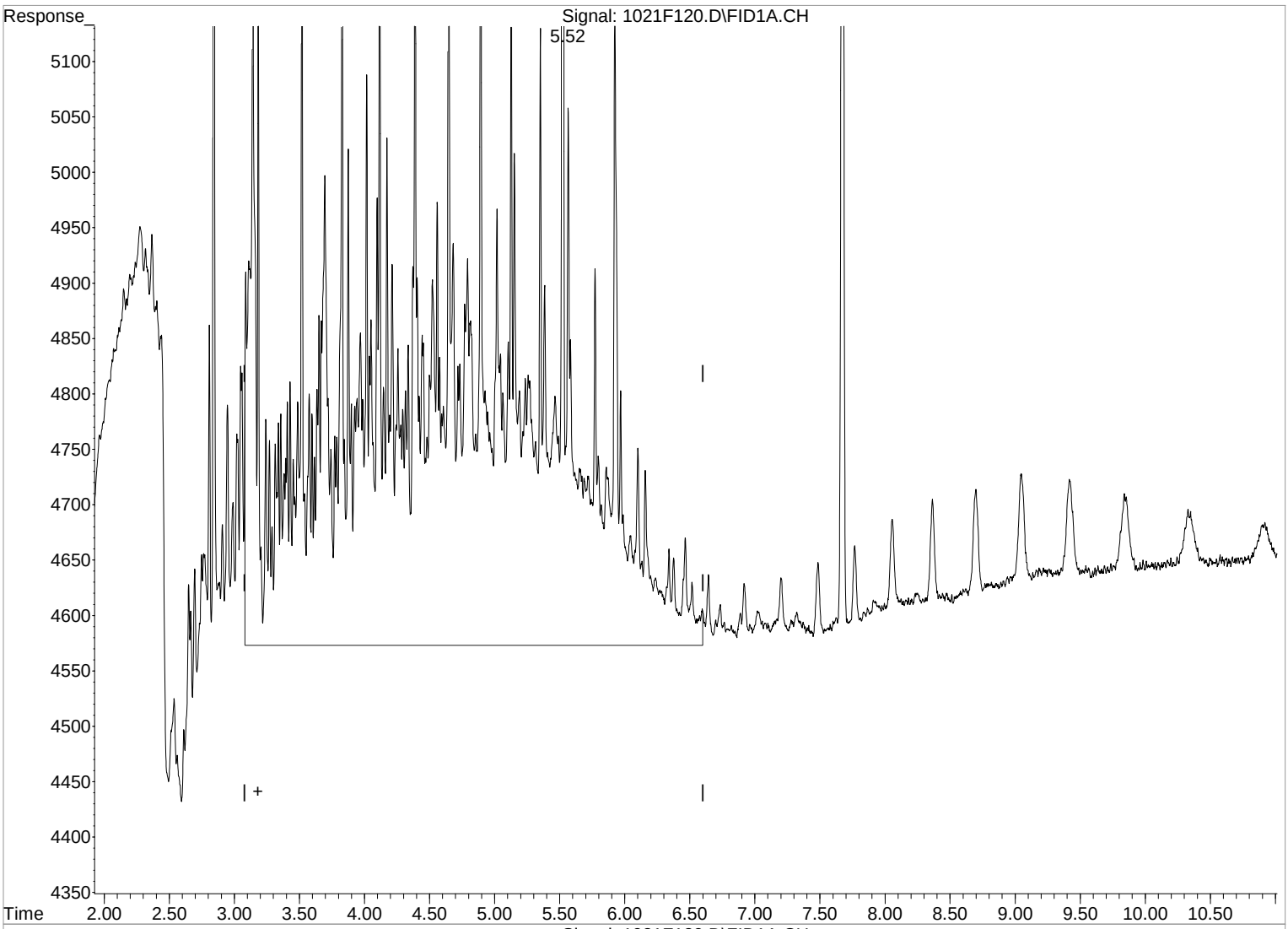
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F120.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

3.18min 26.184ppm

response 41075

Manual Integration:

After

Baseline/Shoulder

10/24/19

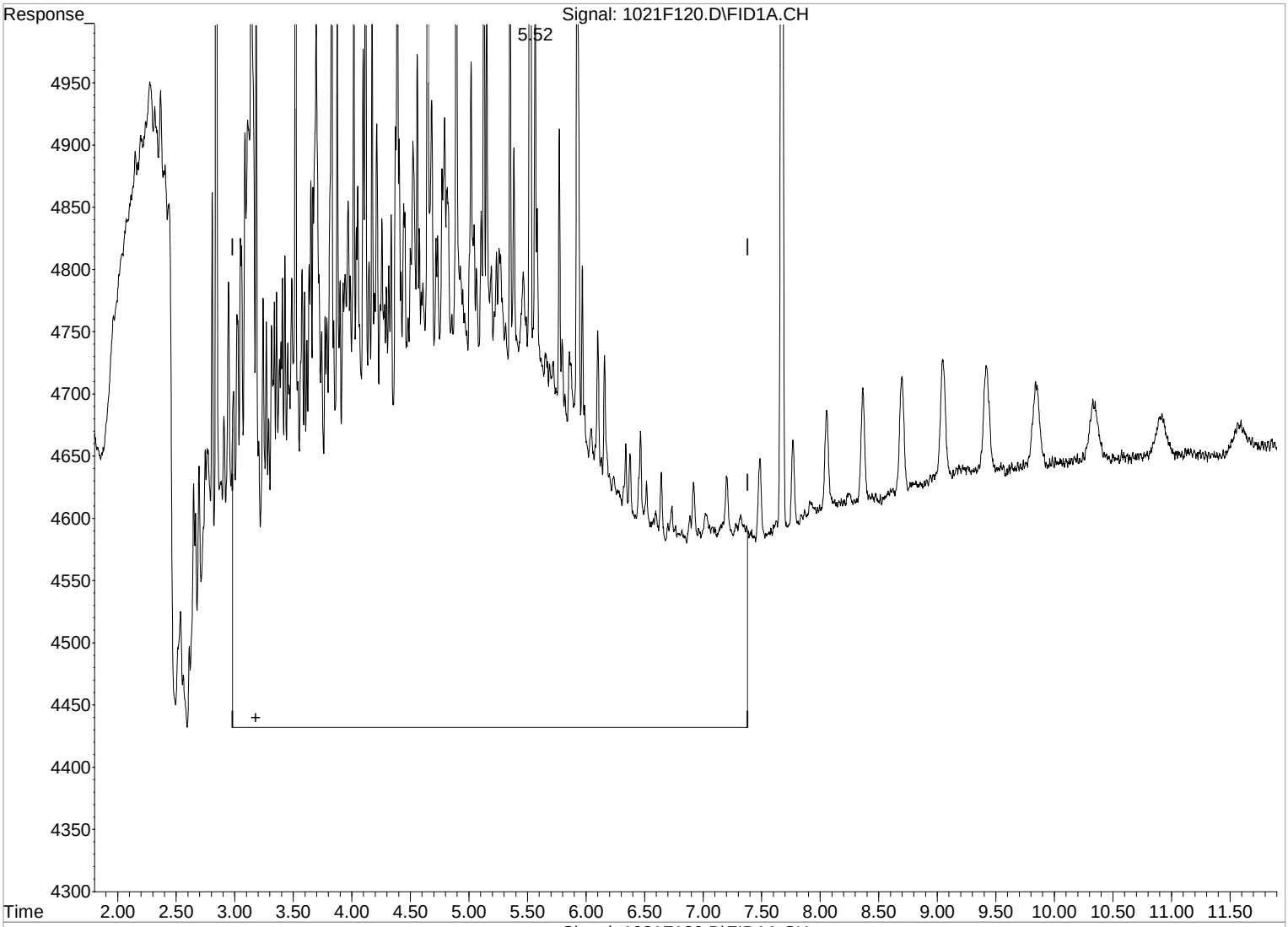
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F120.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 50.229ppm

response 80241

Manual Integration:

Before

10/24/19

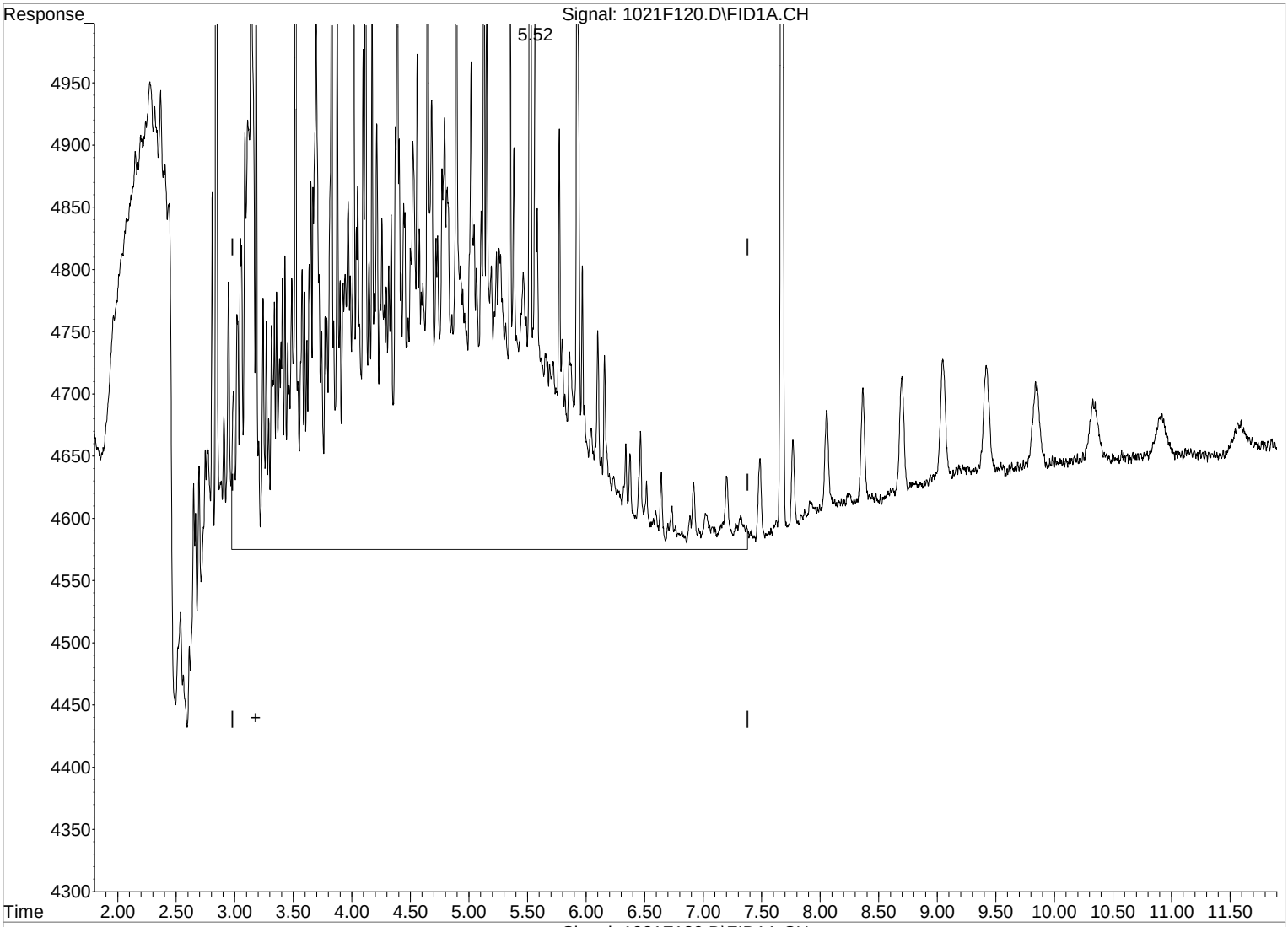
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F120.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 26.618ppm

response 42522

Manual Integration:

After

Baseline/Shoulder

10/24/19

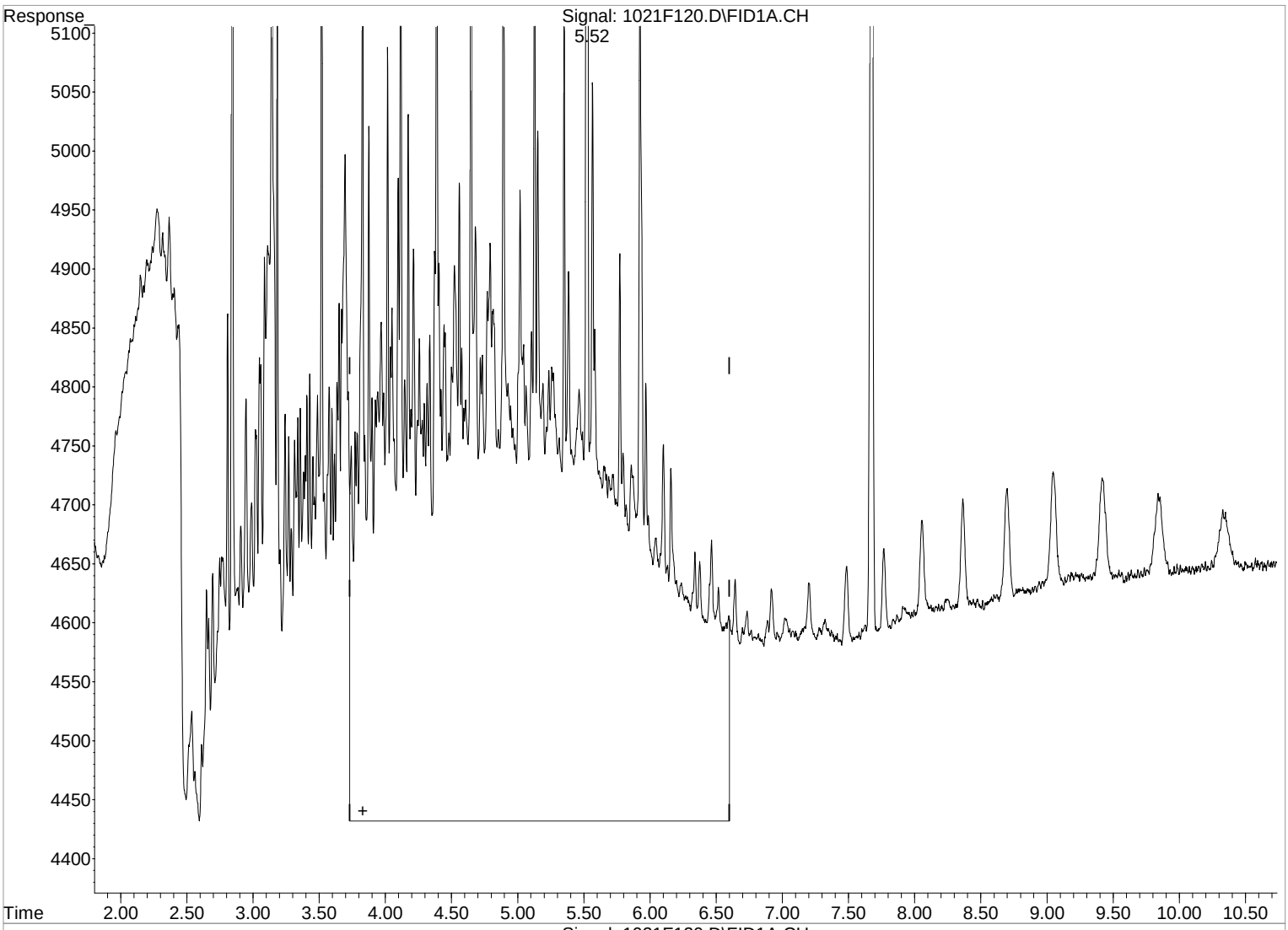
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F120.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 42.260ppm

response 57468

Manual Integration:

Before

10/24/19

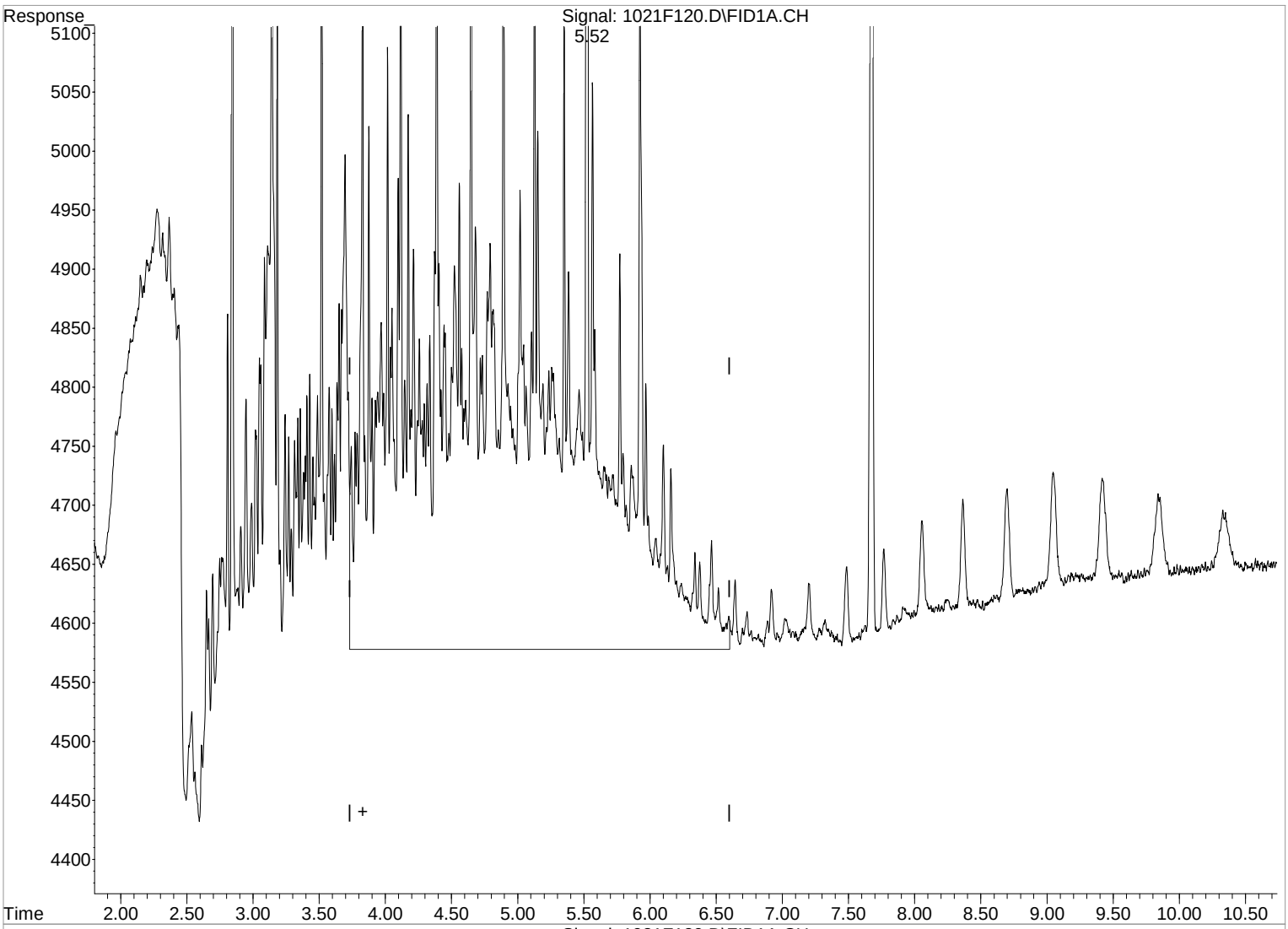
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F120.D Vial: 14
Acq On : 21 Oct 2019 9:32 pm Operator: TAP
Sample : SVF02-75H 20/1 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:35 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F120.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 23.774ppm

response 32329

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:37:07 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	4-Bromofluorobenzene	2.84	2484	2.754	ppm
Spiked Amount	50.000	Recovery	=	5.51%	
2) S	o-Terphenyl	5.52	4980	2.575	ppm
Spiked Amount	50.000	Recovery	=	5.15%	
3) S	n-Triacontane	7.67	3803	2.702	ppm
Spiked Amount	50.000	Recovery	=	5.40%	
	Target Compounds				
6) H	C10-C25ex DRO [AK102]	3.18	99771	63.600	ppm
7) H	C10-C28in DRO [8015]	3.18	104730	65.558	ppm
8) H	C12-C25ex DRO [NWTPH]	3.83	82455	60.635	ppm

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

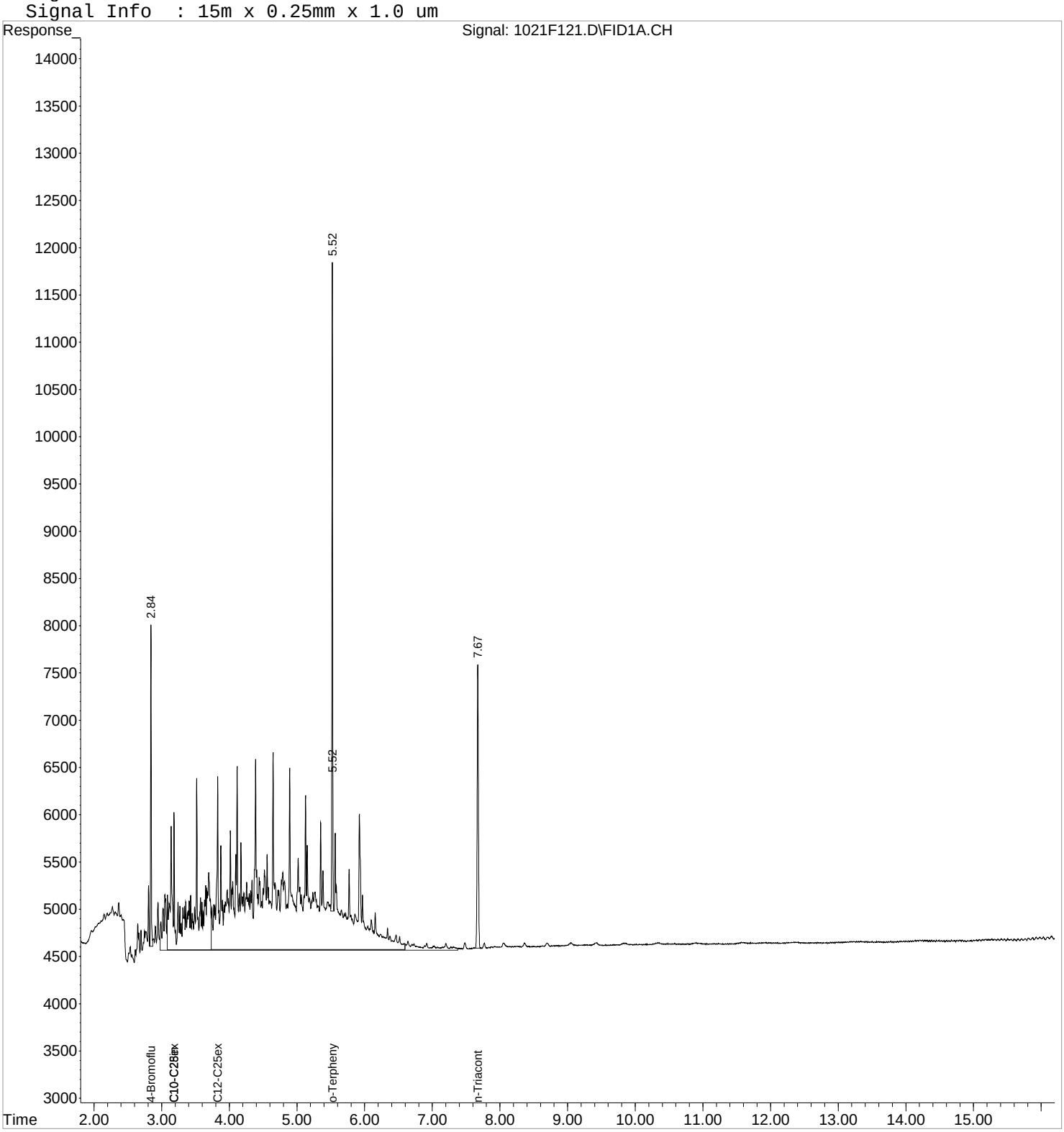
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:38 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

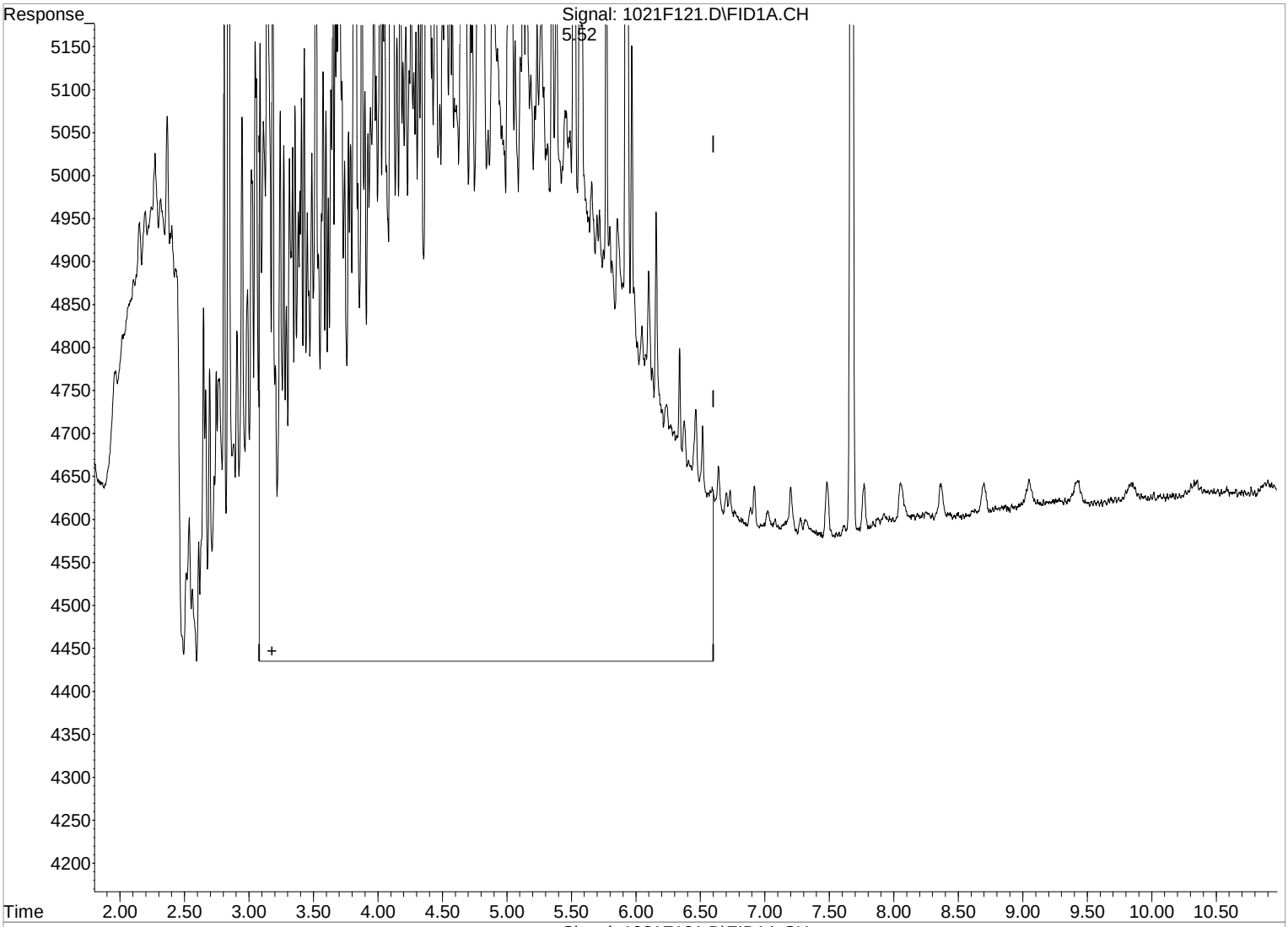


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F121.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

3.18min 81.986ppm

response 128614

Manual Integration:

Before

10/24/19

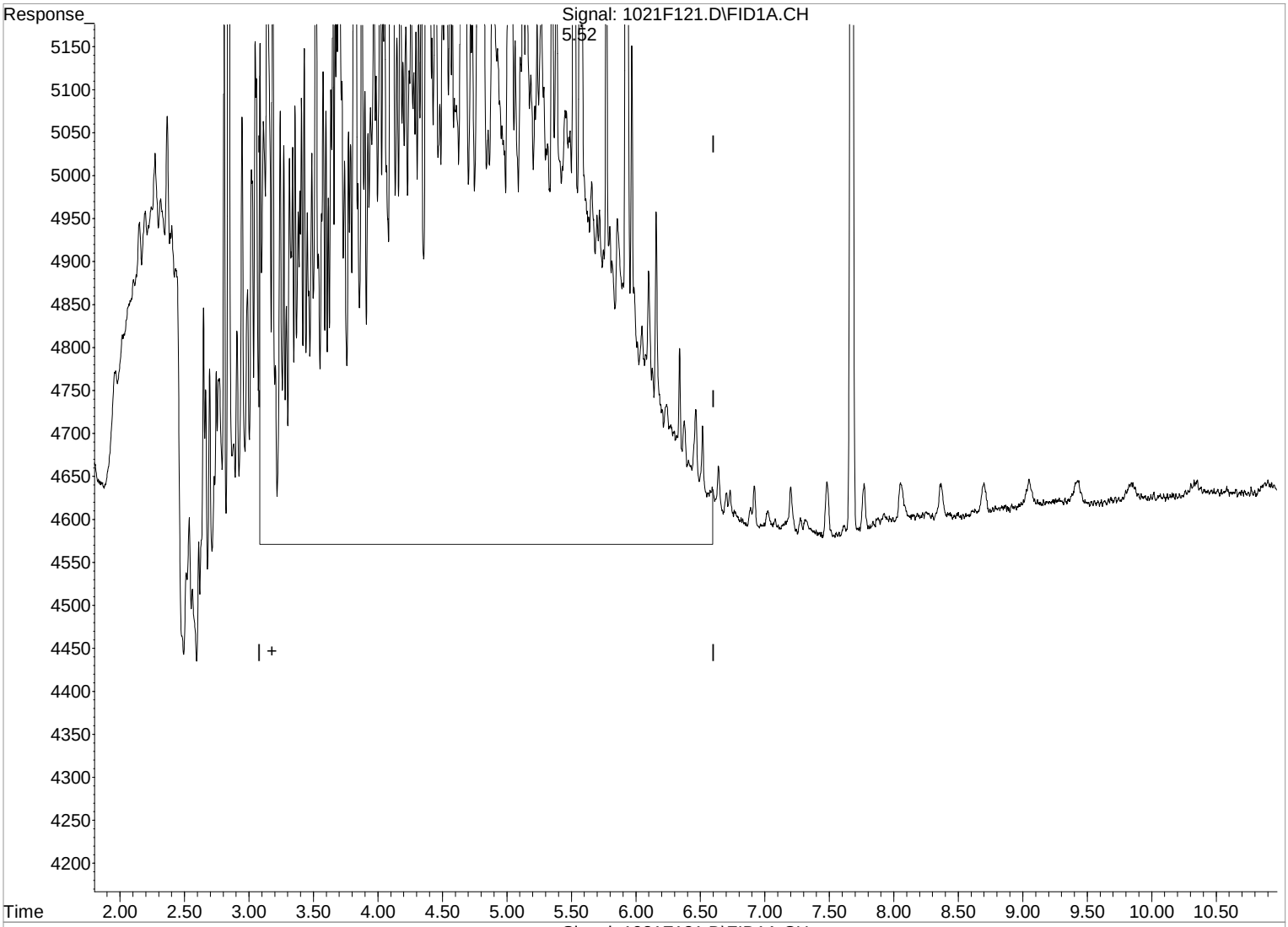
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F121.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

3.18min 63.600ppm

response 99771

Manual Integration:

After

Baseline/Shoulder

10/24/19

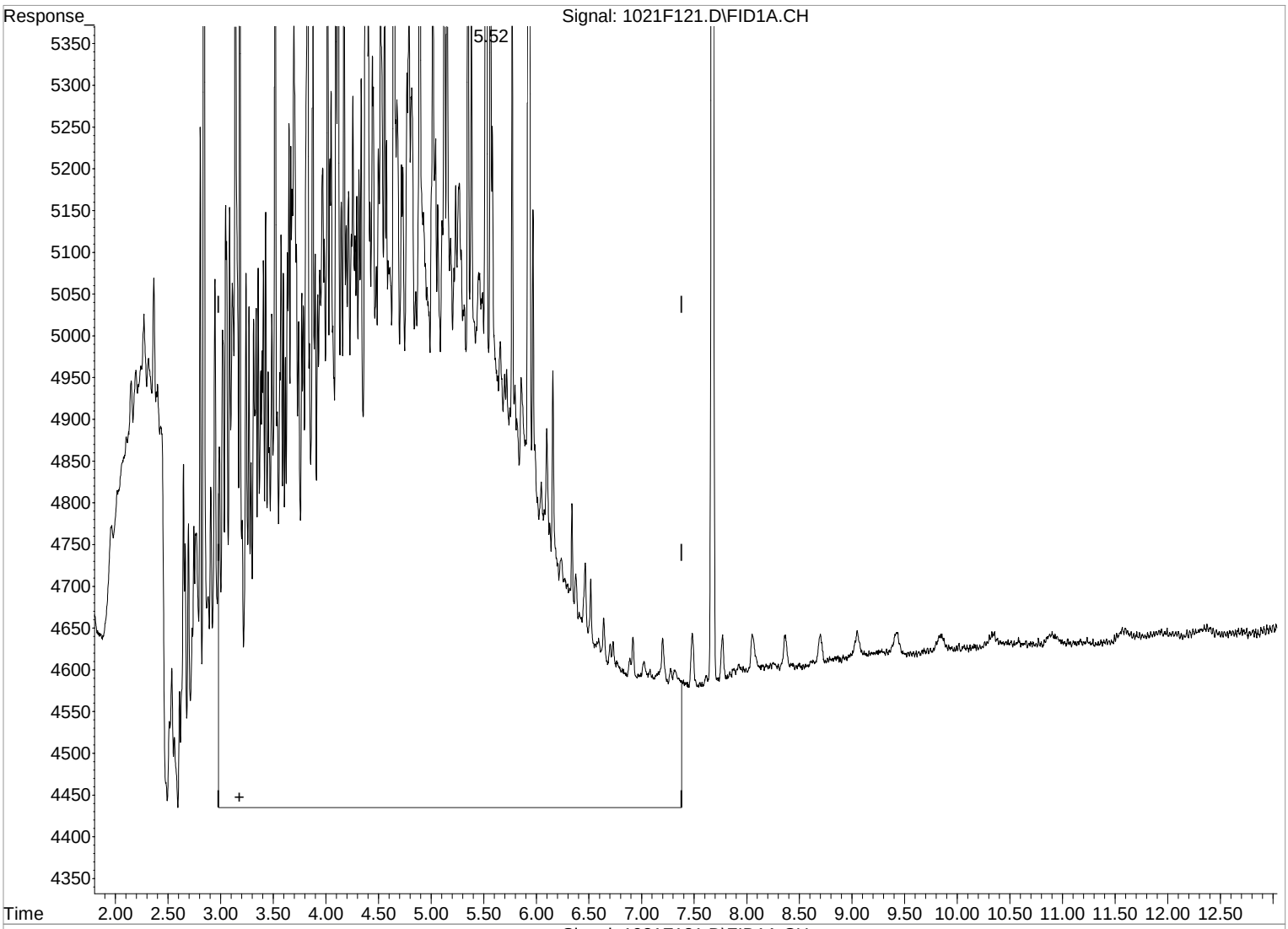
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F121.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 87.181ppm

response 139272

Manual Integration:

Before

10/24/19

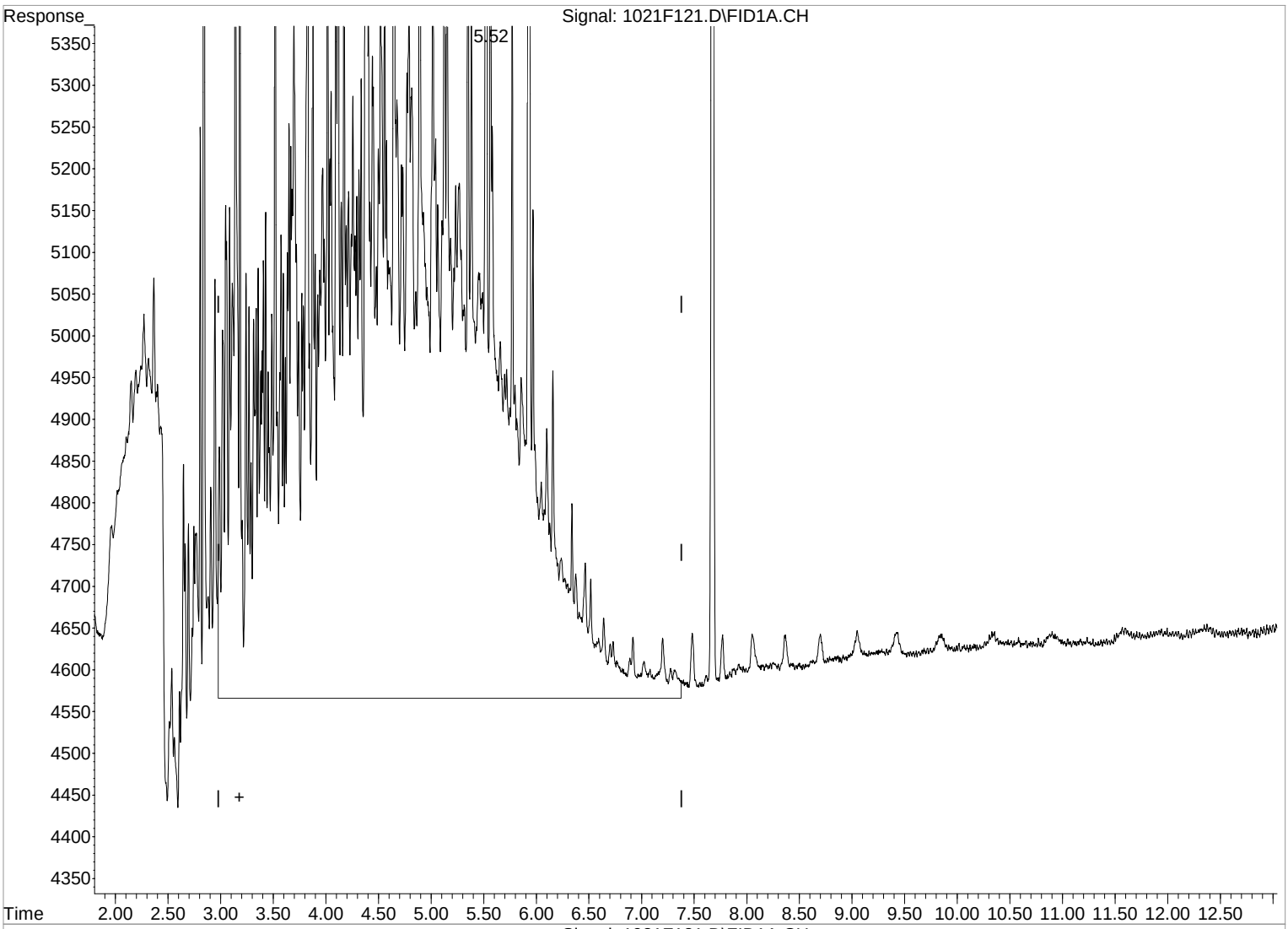
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F121.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 65.558ppm

response 104730

Manual Integration:

After

Baseline/Shoulder

10/24/19

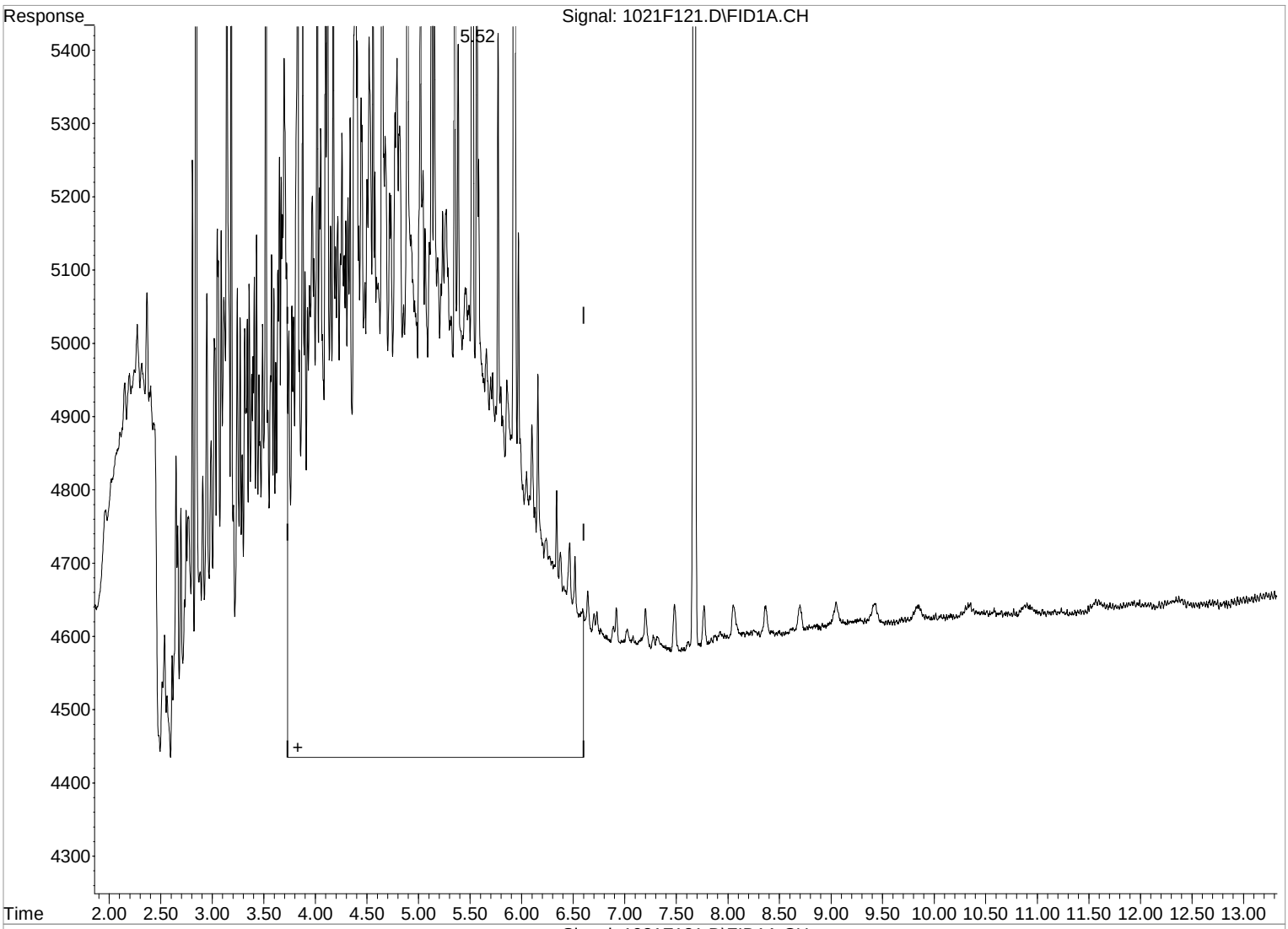
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F121.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 78.391ppm

response 106601

Manual Integration:

Before

10/24/19

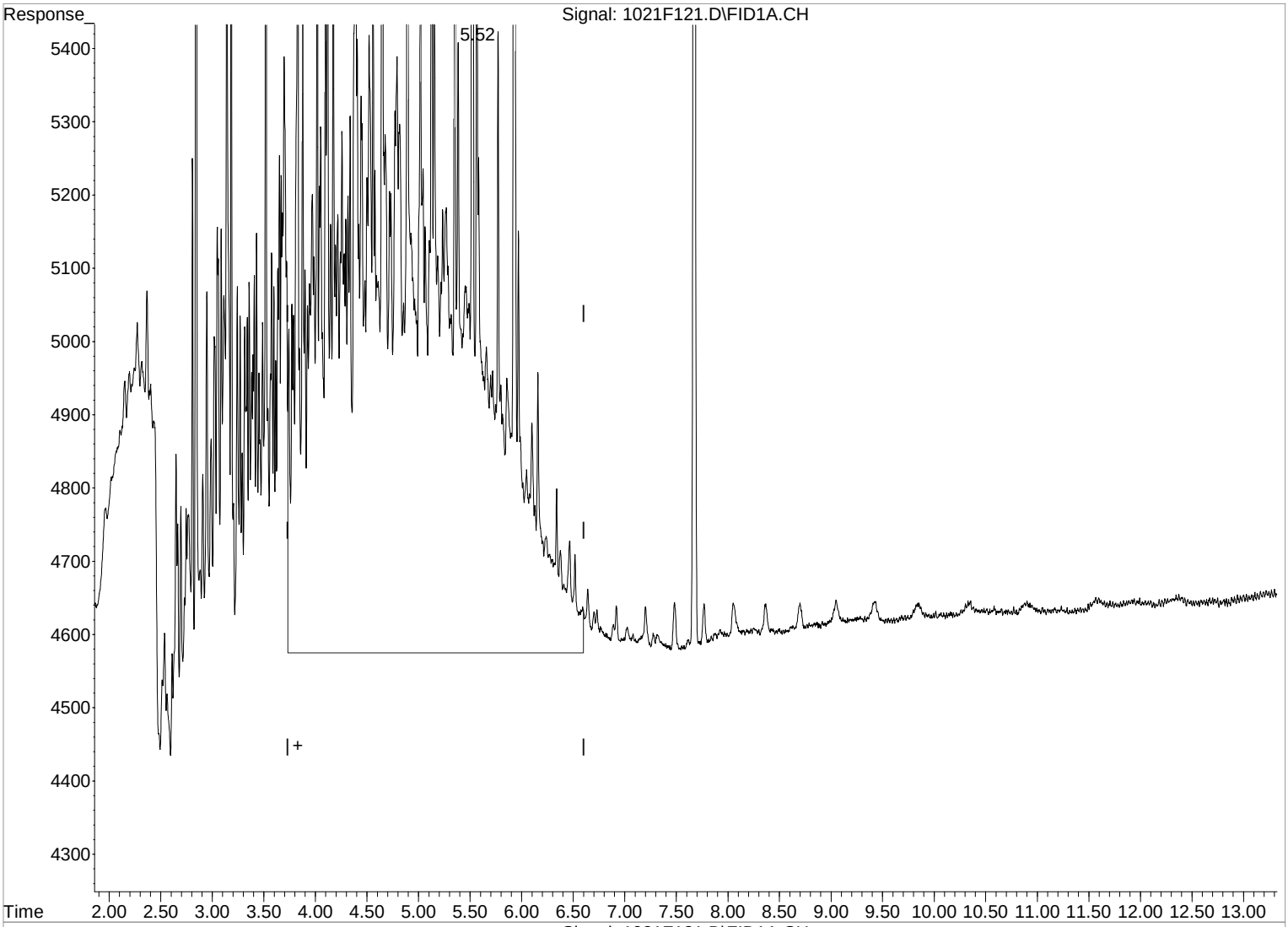
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F121.D Vial: 15
Acq On : 21 Oct 2019 9:55 pm Operator: TAP
Sample : SVF02-75G 50/2.5 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:37 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F121.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 60.635ppm

response 82455

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:39:06 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	4-Bromofluorobenzene	2.84	9614	10.661 ppm
Spiked Amount	50.000	Recovery	=	21.32%
2) S	o-Terphenyl	5.52	19405	10.033 ppm
Spiked Amount	50.000	Recovery	=	20.07%
3) S	n-Triacontane	7.67	15769	11.204 ppm
Spiked Amount	50.000	Recovery	=	22.41%
	Target Compounds			
6) H	C10-C25ex DRO [AK102]	3.18	370460	236.153 ppm
7) H	C10-C28in DRO [8015]	3.18	384741	240.838 ppm
8) H	C12-C25ex DRO [NWTPH]	3.83	311726	229.234 ppm

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

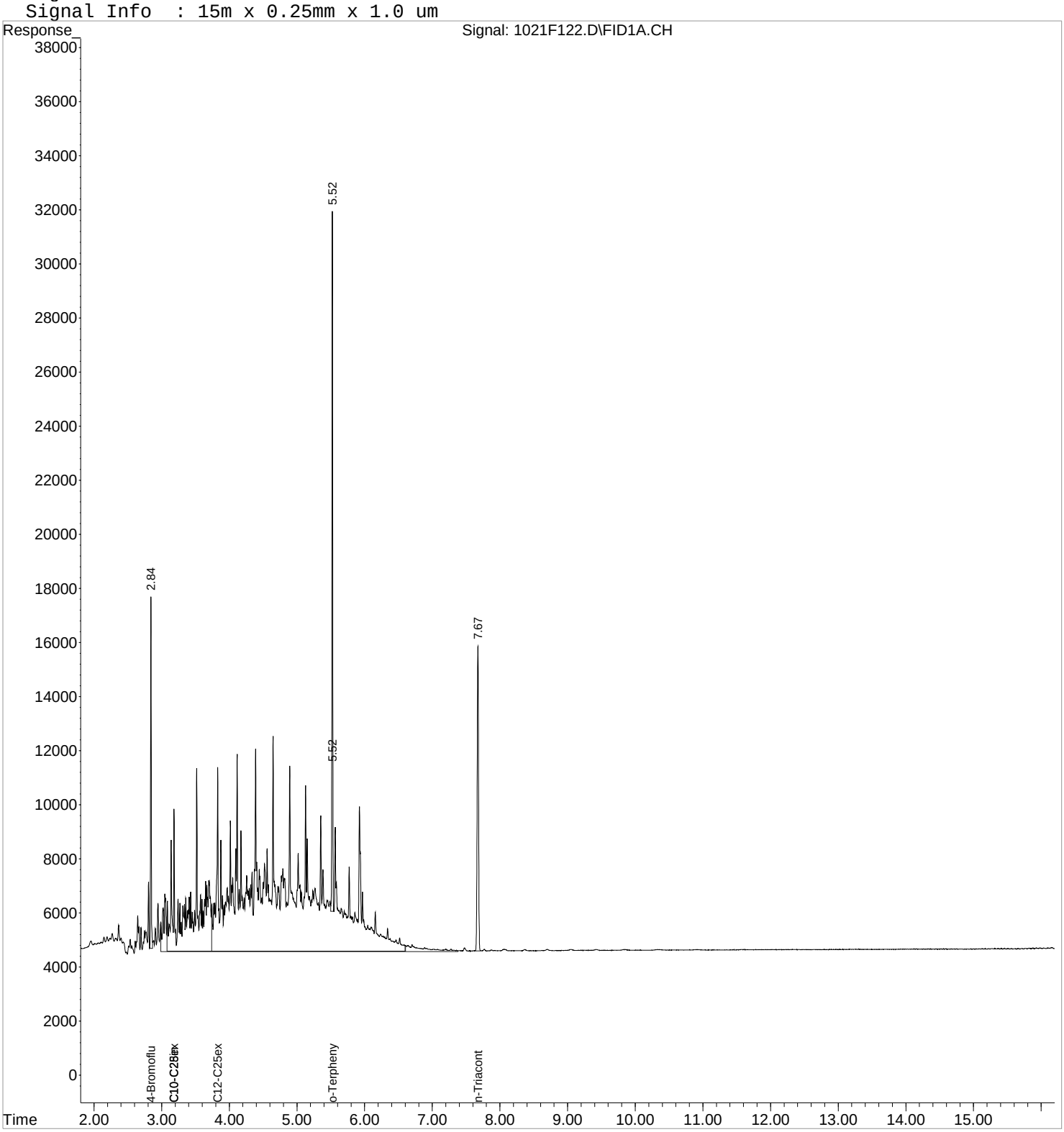
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:41 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

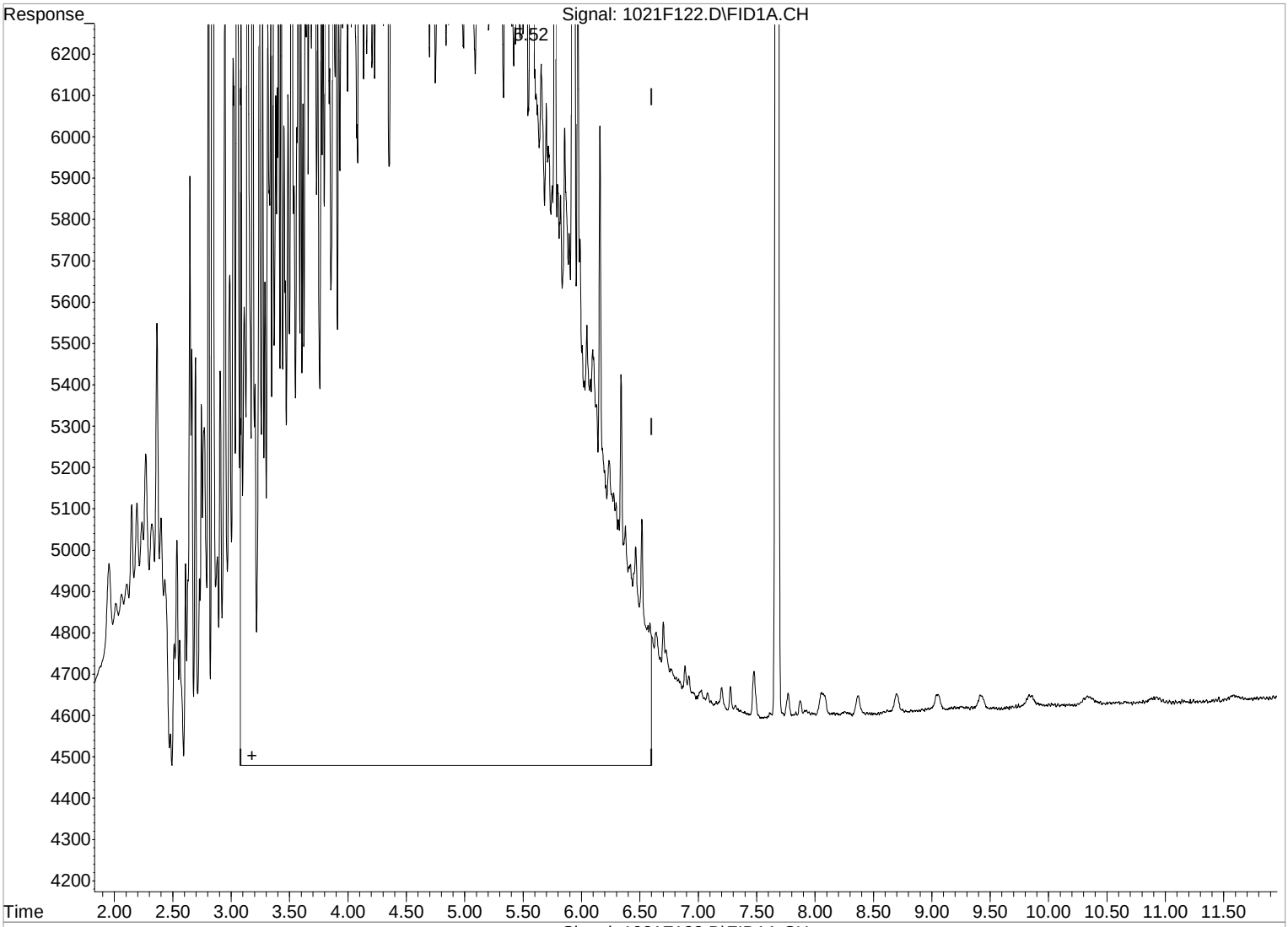


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:39 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F122.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

3.18min 250.532ppm

response 393018

Manual Integration:

Before

10/24/19

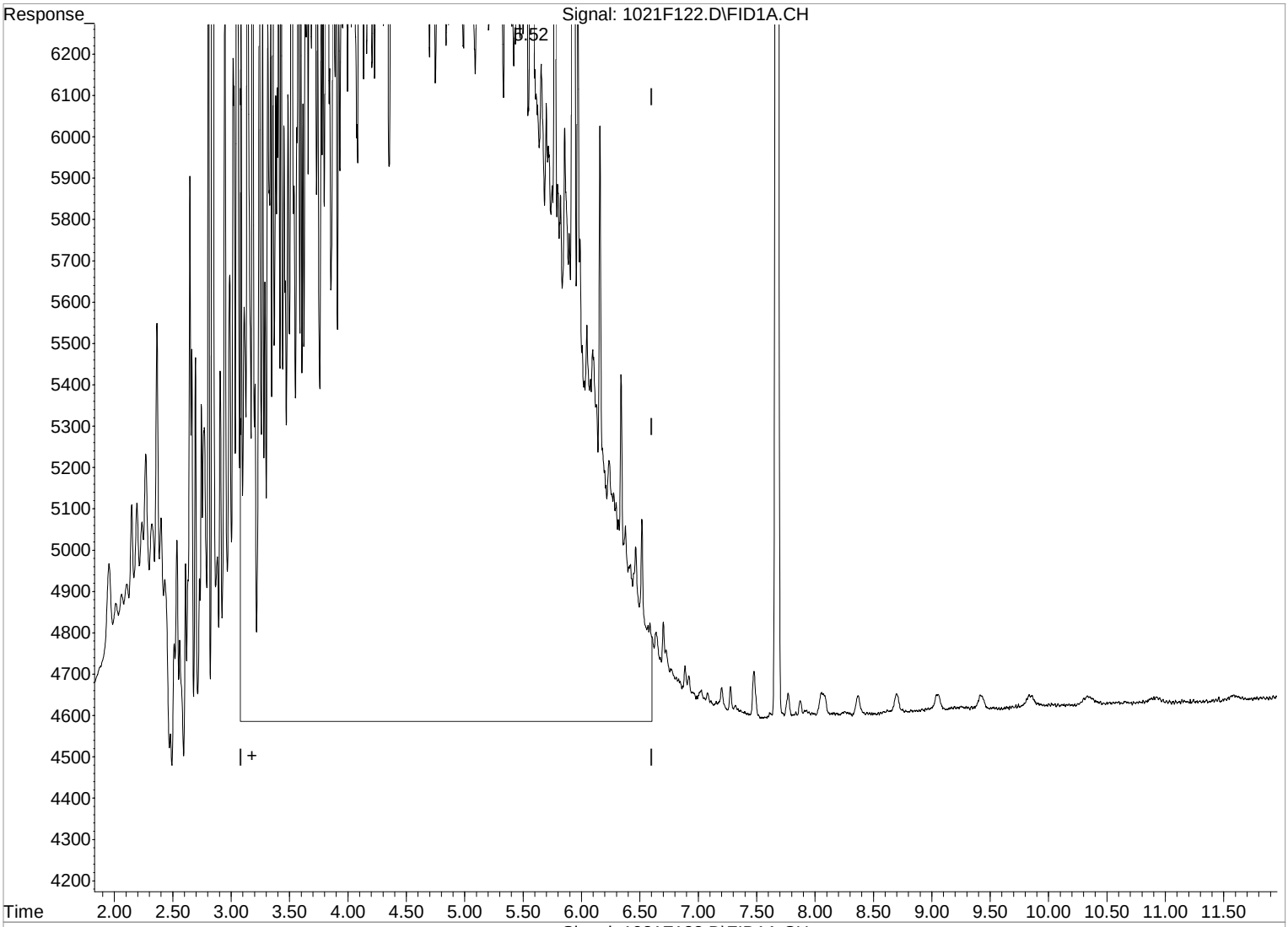
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:39 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F122.D\FID1A.CH

(6) C10-C25ex DRO [AK102] (H)

3.18min 236.153ppm

response 370460

Manual Integration:

After

Baseline/Shoulder

10/24/19

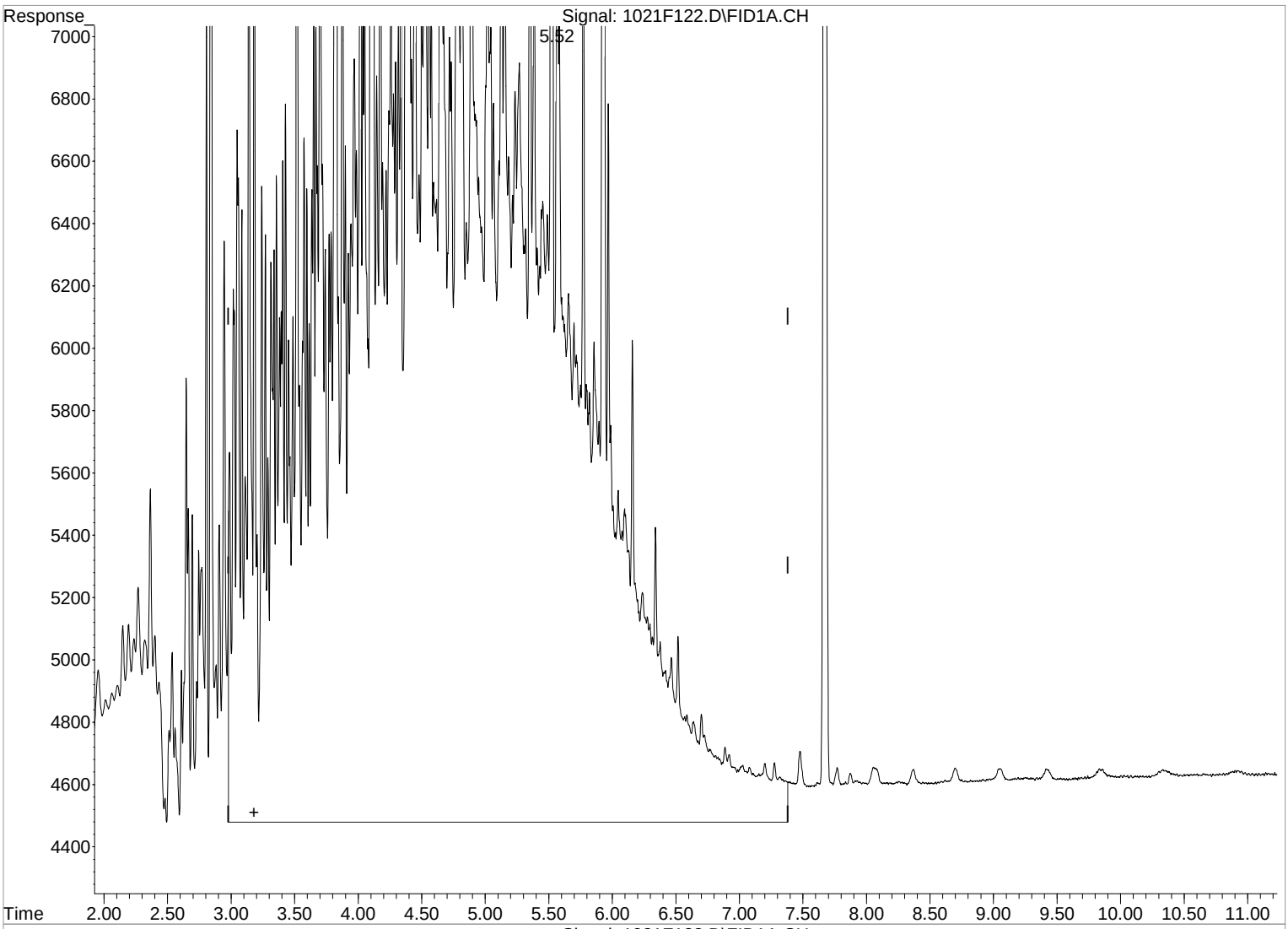
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:39 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F122.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 256.467ppm

response 409708

Manual Integration:

Before

10/24/19

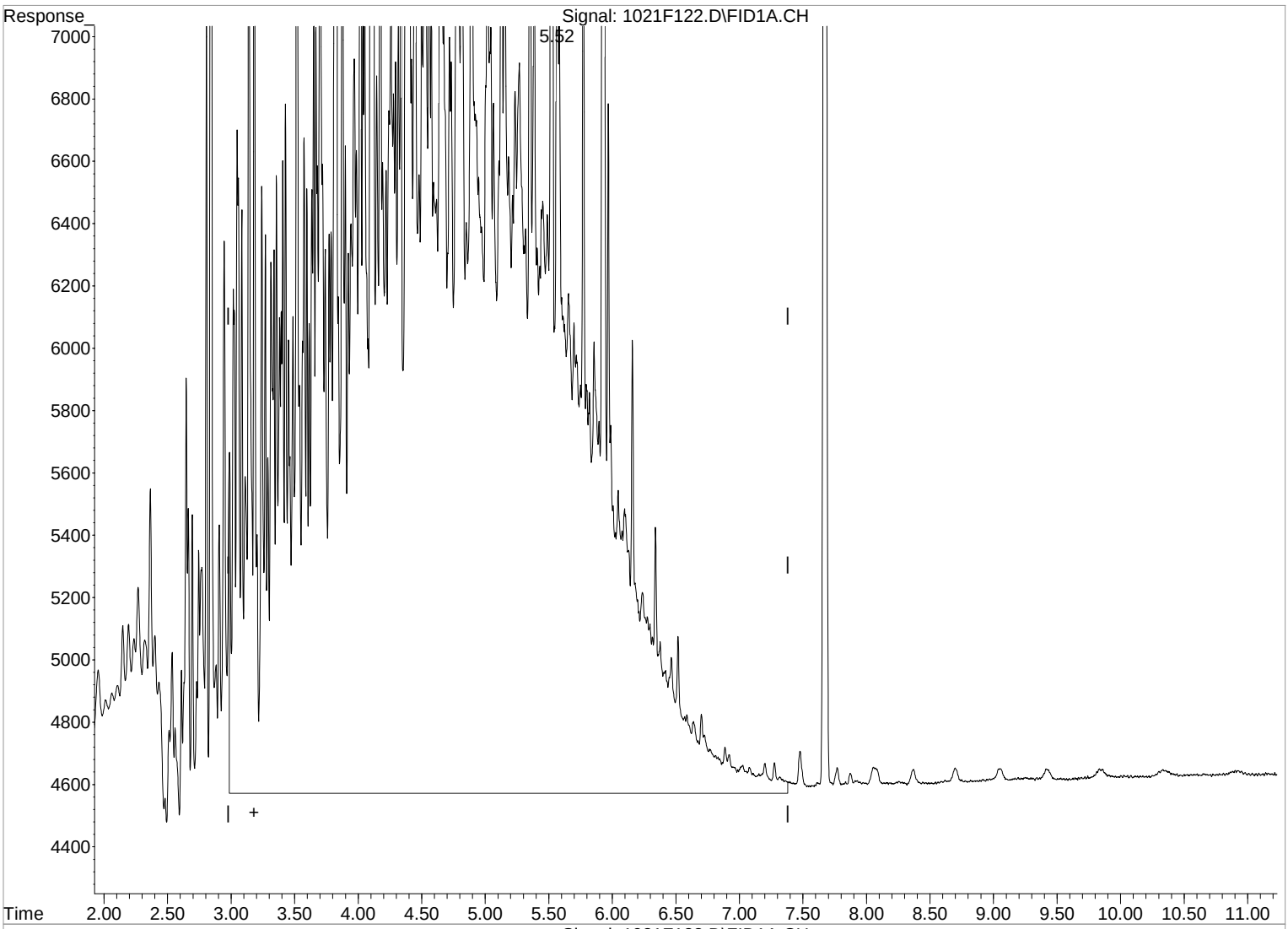
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:39 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F122.D\FID1A.CH

(7) C10-C28in DRO [8015] (H)

3.18min 240.838ppm

response 384741

Manual Integration:

After

Baseline/Shoulder

10/24/19

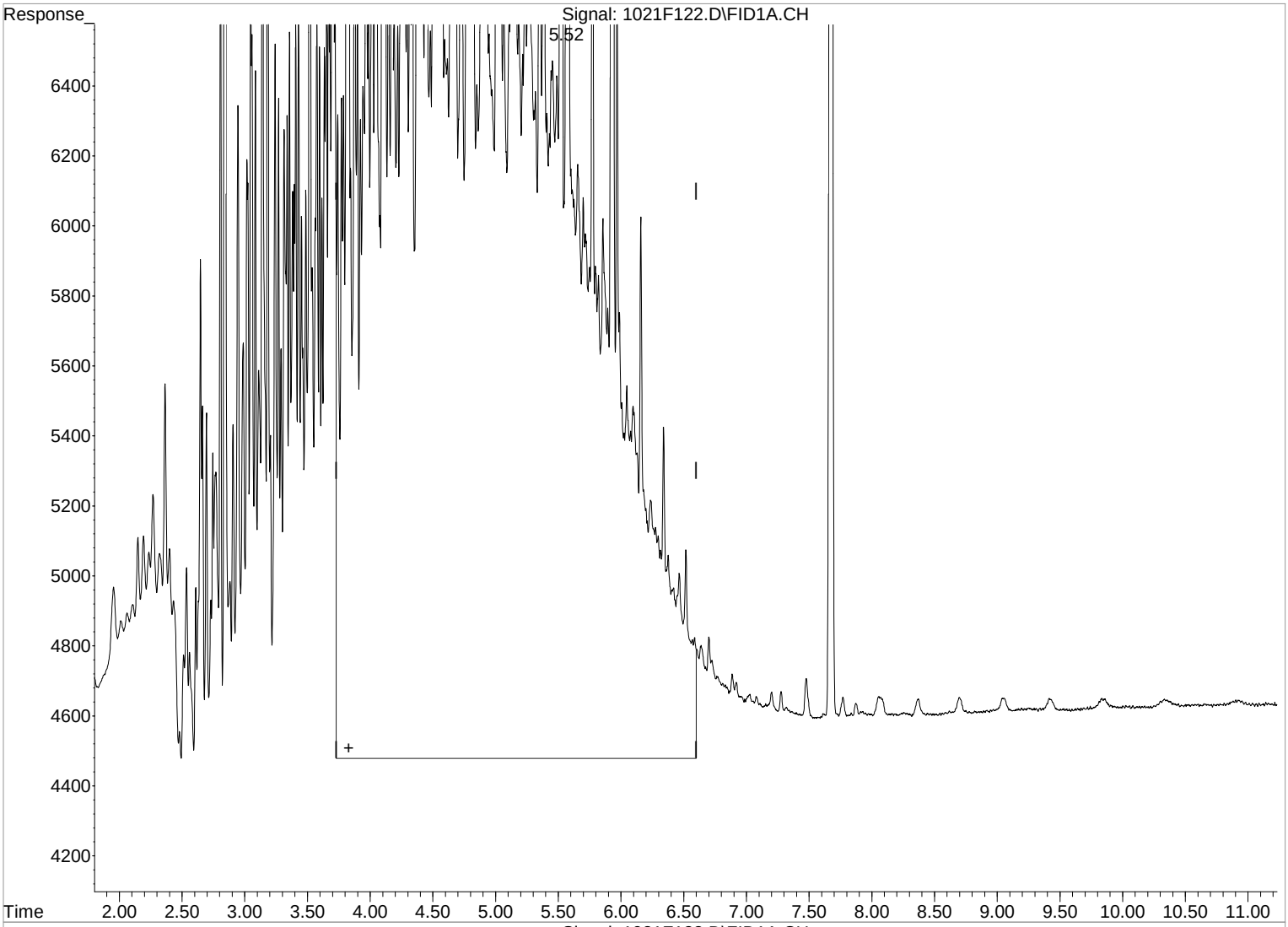
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:39 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F122.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 243.589ppm

response 331247

Manual Integration:

Before

10/24/19

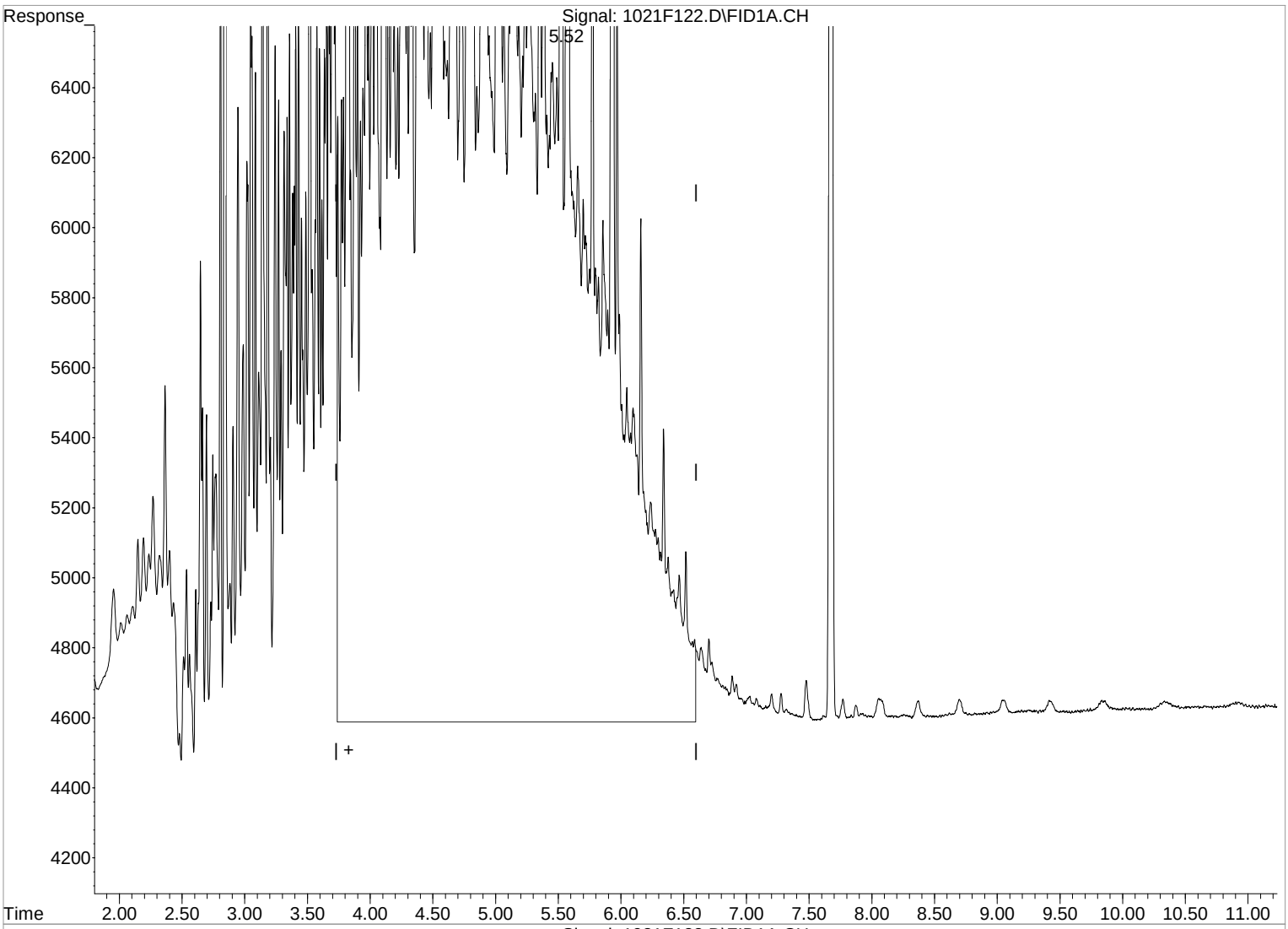
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F122.D Vial: 16
Acq On : 21 Oct 2019 10:17 pm Operator: TAP
Sample : SVF02-75F 200/10 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:39 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Multiple Level Calibration



Signal: 1021F122.D\FID1A.CH

(8) C12-C25ex DRO [NWTPH] (H)

3.83min 229.234ppm

response 311726

Manual Integration:

After

Baseline/Shoulder

10/24/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F123.D Vial: 17
Acq On : 21 Oct 2019 10:40 pm Operator: TAP
Sample : SVF02-75E 500/25 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:42:19 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	4-Bromofluorobenzene	2.84	23654	26.229 ppm
Spiked Amount	50.000	Recovery	=	52.46%
2) S	o-Terphenyl	5.52	48045	24.840 ppm
Spiked Amount	50.000	Recovery	=	49.68%
3) S	n-Triacontane	7.67	36003	25.580 ppm
Spiked Amount	50.000	Recovery	=	51.16%
	Target Compounds			
6) H	C10-C25ex DRO [AK102]	3.18	962977	613.857 ppm
7) H	C10-C28in DRO [8015]	3.18	993861	622.132 ppm
8) H	C12-C25ex DRO [NWTPH]	3.83	815950	600.024 ppm

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

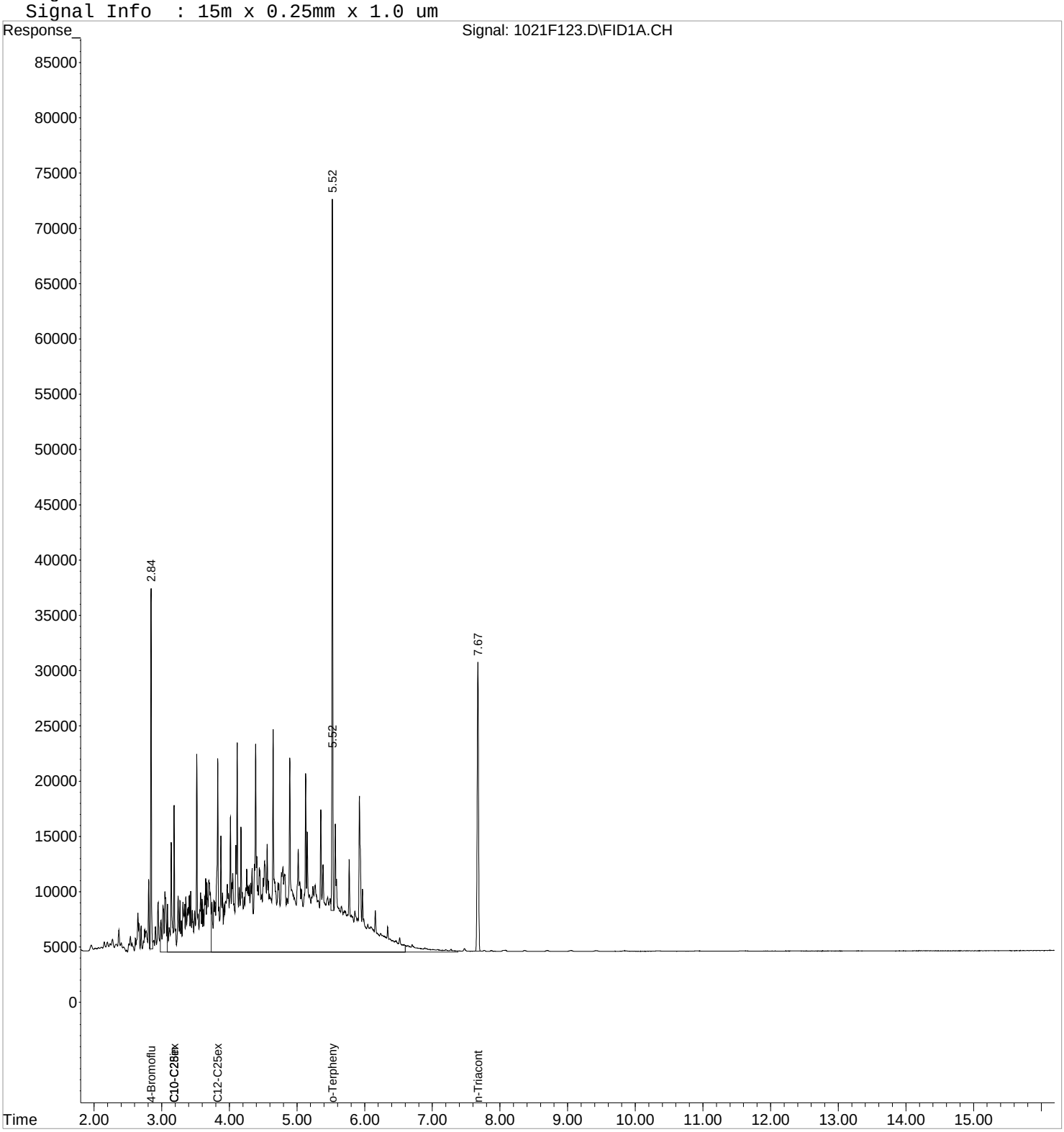
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F123.D Vial: 17
Acq On : 21 Oct 2019 10:40 pm Operator: TAP
Sample : SVF02-75E 500/25 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:42 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F124.D Vial: 18
Acq On : 21 Oct 2019 11:02 pm Operator: TAP
Sample : SVF02-75D 2K/100 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:43:17 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S 4-Bromofluorobenzene	2.84	91093	101.009	ppm
Spiked Amount	50.000	Recovery	=	202.02%	
2)	S o-Terphenyl	5.52	182170	94.185	ppm
Spiked Amount	50.000	Recovery	=	188.37%	
3)	S n-Triacontane	7.67	150018	106.589	ppm
Spiked Amount	50.000	Recovery	=	213.18%	
	Target Compounds				
6)	H C10-C25ex DRO [AK102]	3.18	3492312	2226.202	ppm
7)	H C10-C28in DRO [8015]	3.18	3595546	2250.720	ppm
8)	H C12-C25ex DRO [NWTPH]	3.83	2958922	2175.900	ppm

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

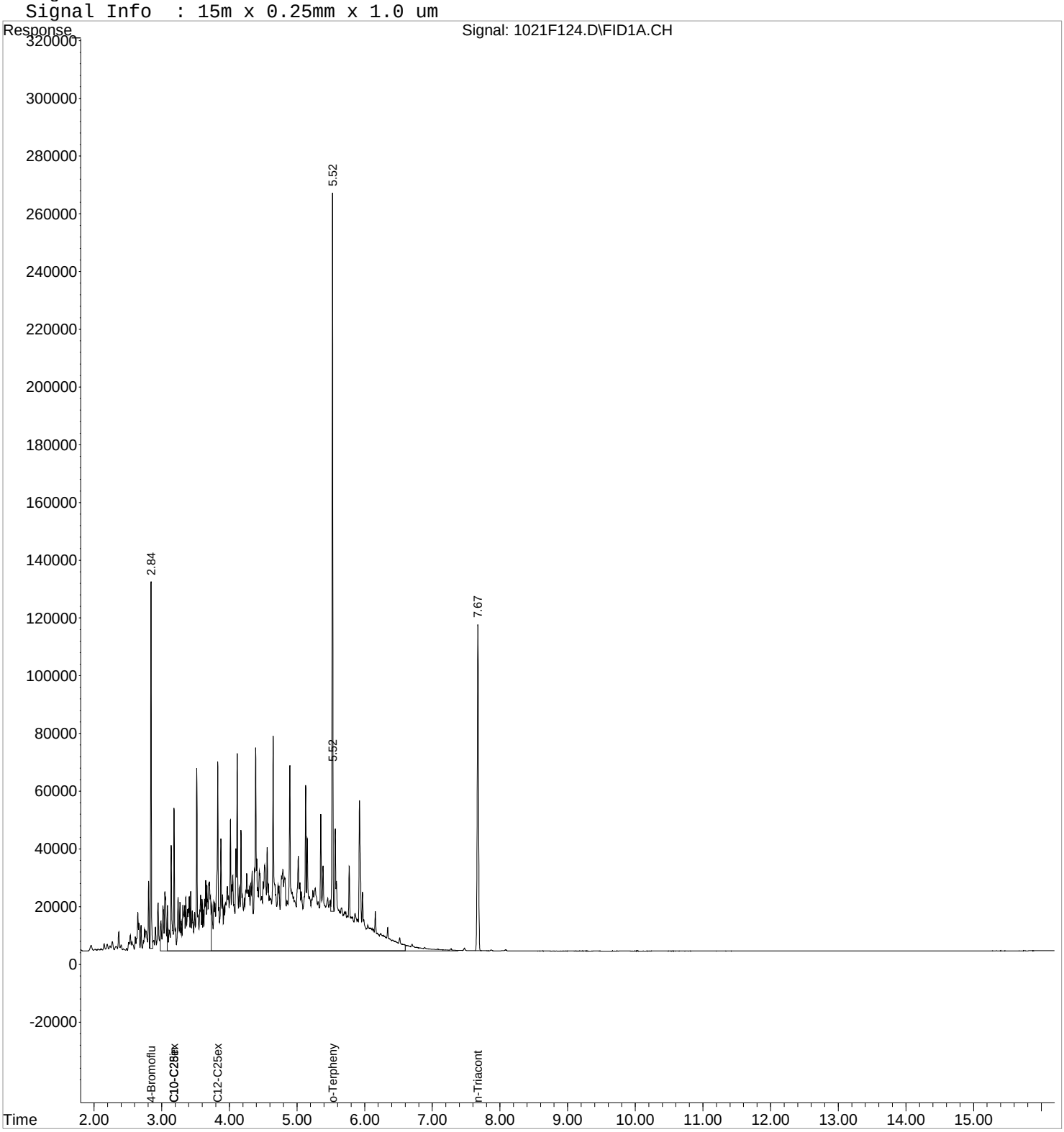
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F124.D Vial: 18
Acq On : 21 Oct 2019 11:02 pm Operator: TAP
Sample : SVF02-75D 2K/100 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:44 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F125.D Vial: 19
Acq On : 21 Oct 2019 11:24 pm Operator: TAP
Sample : SVF02-75C 5K/250 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:45:07 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	4-Bromofluorobenzene	2.84	214581	237.940 ppm
Spiked Amount	50.000	Recovery	=	475.88%
2) S	o-Terphenyl	5.53	426392	220.451 ppm
Spiked Amount	50.000	Recovery	=	440.90%
3) S	n-Triacontane	7.68	329953	234.434 ppm
Spiked Amount	50.000	Recovery	=	468.87%
	Target Compounds			
6) H	C10-C25ex DRO [AK102]	3.18	8431143	5374.499 ppm
7) H	C10-C28in DRO [8015]	3.18	8682555	5435.057 ppm
8) H	C12-C25ex DRO [NWTPH]	3.83	7143022	5252.758 ppm

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

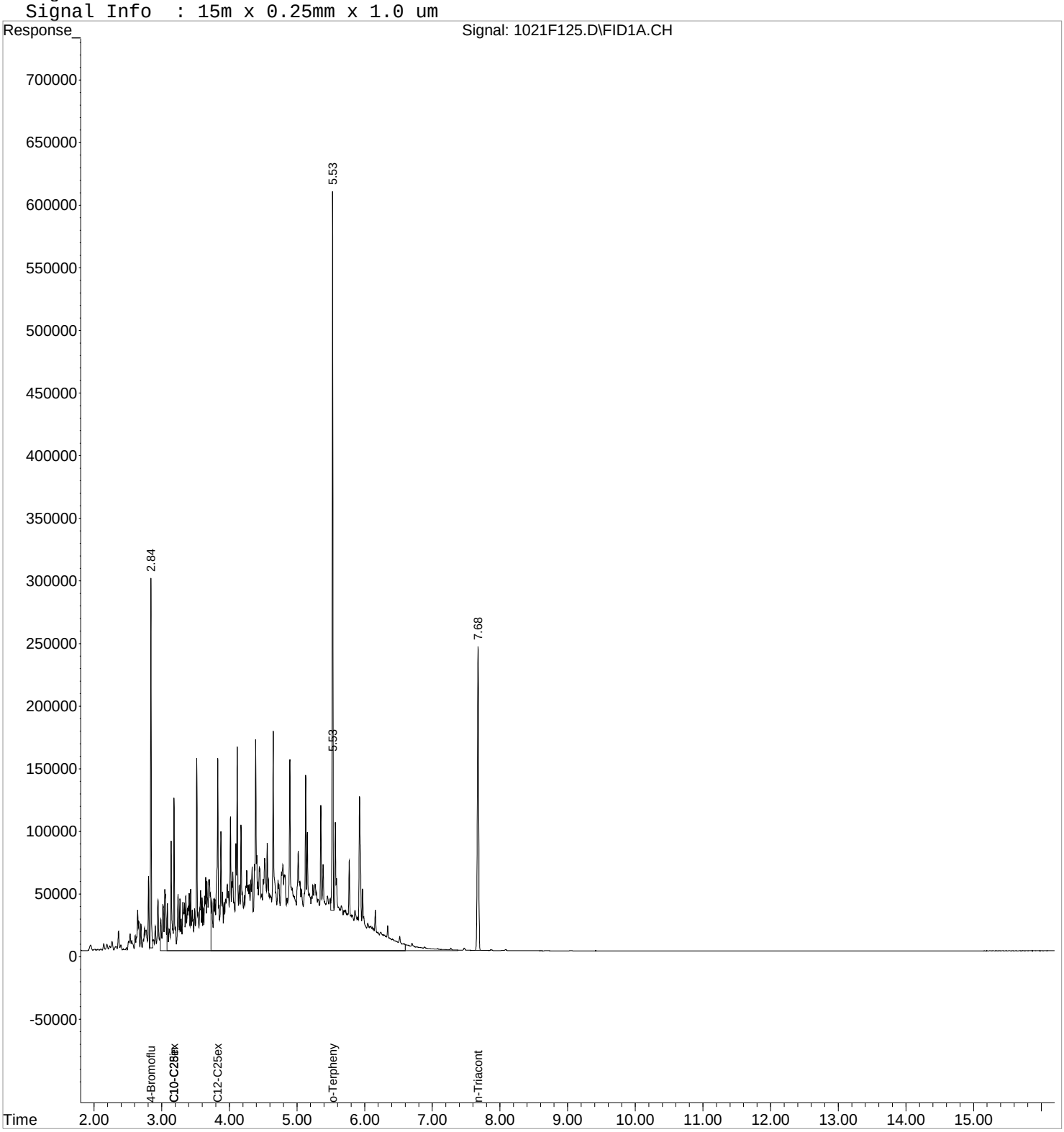
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F125.D Vial: 19
Acq On : 21 Oct 2019 11:24 pm Operator: TAP
Sample : SVF02-75C 5K/250 DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:45 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F126.D Vial: 20
Acq On : 21 Oct 2019 11:47 pm Operator: TAP
Sample : SVF02-75B 20K DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:45:58 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
6) H	C10-C25ex DRO [AK102]	3.18	31120324	19837.898	ppm
7) H	C10-C28in DRO [8015]	3.18	32063244	20070.770	ppm
8) H	C12-C25ex DRO [NWTPH]	3.83	26339722	19369.420	ppm

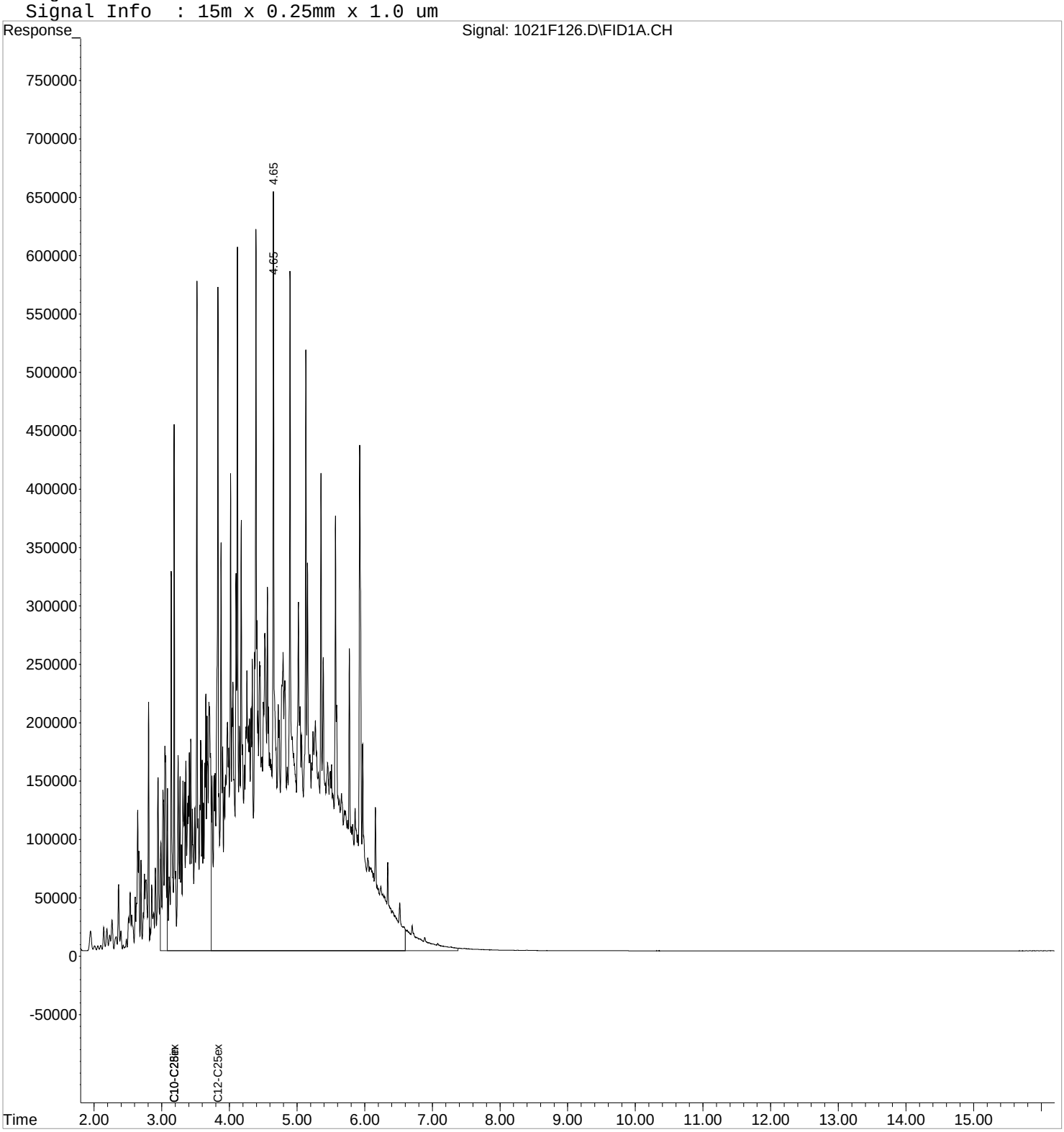
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F126.D Vial: 20
Acq On : 21 Oct 2019 11:47 pm Operator: TAP
Sample : SVF02-75B 20K DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:46 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F127.D Vial: 21
Acq On : 22 Oct 2019 12:09 am Operator: TAP
Sample : SVF02-75A 50K DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 08:46:44 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
	Target Compounds				
6)	H C10-C25ex DRO [AK102]	3.18	79587909	50733.945	ppm
7)	H C10-C28in DRO [8015]	3.18	81991494	51324.576	ppm
8)	H C12-C25ex DRO [NWTPH]	3.83	67441565	49594.449	ppm

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

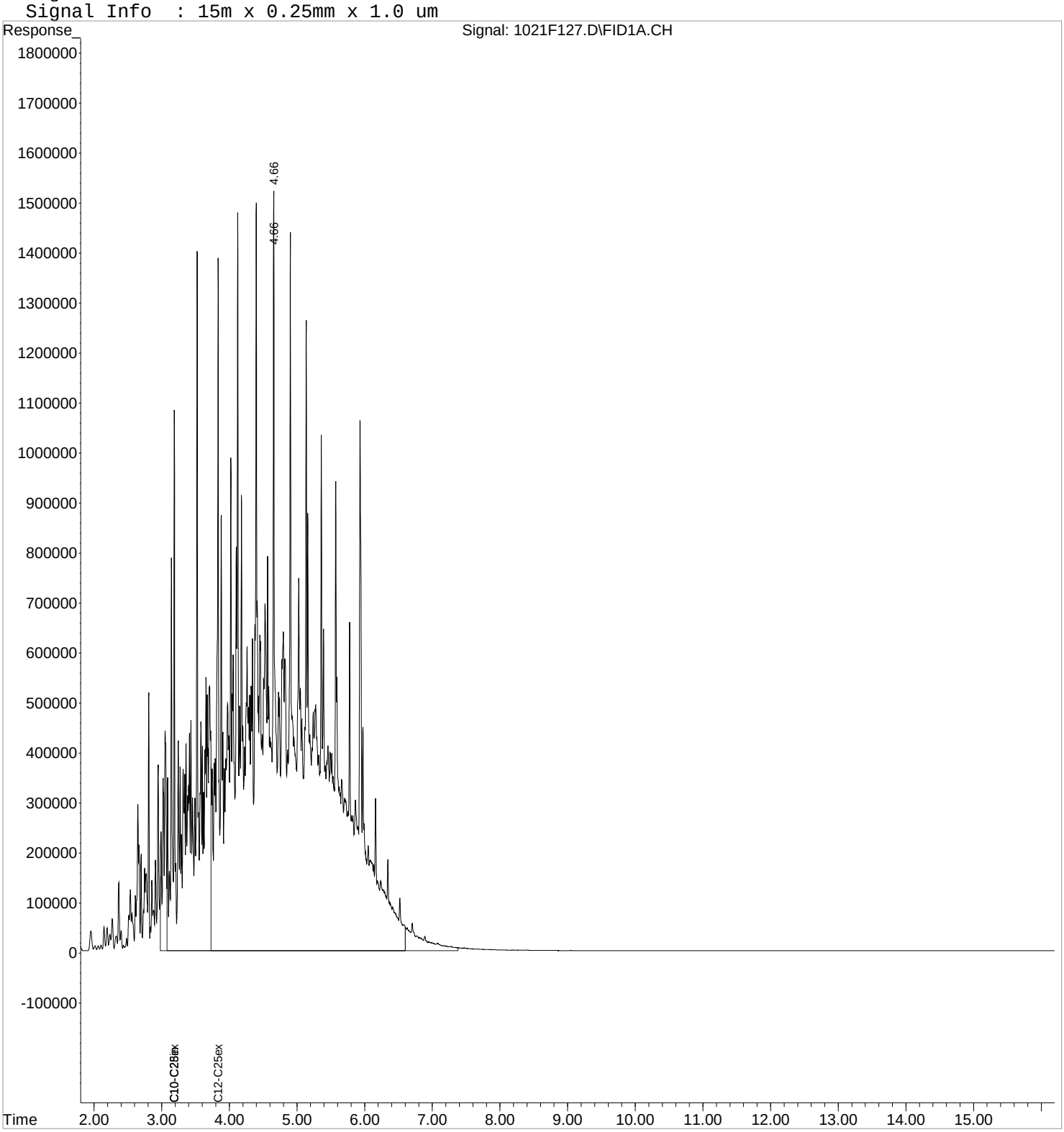
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F127.D Vial: 21
Acq On : 22 Oct 2019 12:09 am Operator: TAP
Sample : SVF02-75A 50K DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 8:50 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:35:10 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F129.D Vial: 22
Acq On : 22 Oct 2019 12:54 am Operator: TAP
Sample : SVF02-75I ICV DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 09:07:29 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
6)	H C10-C25ex DRO [AK102]	3.18	1643889	912.791 ppm
7)	H C10-C28in DRO [8015]	3.18	1685187	904.228 ppm
8)	H C12-C25ex DRO [NWTPH]	3.83	1441993	958.934 ppm

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

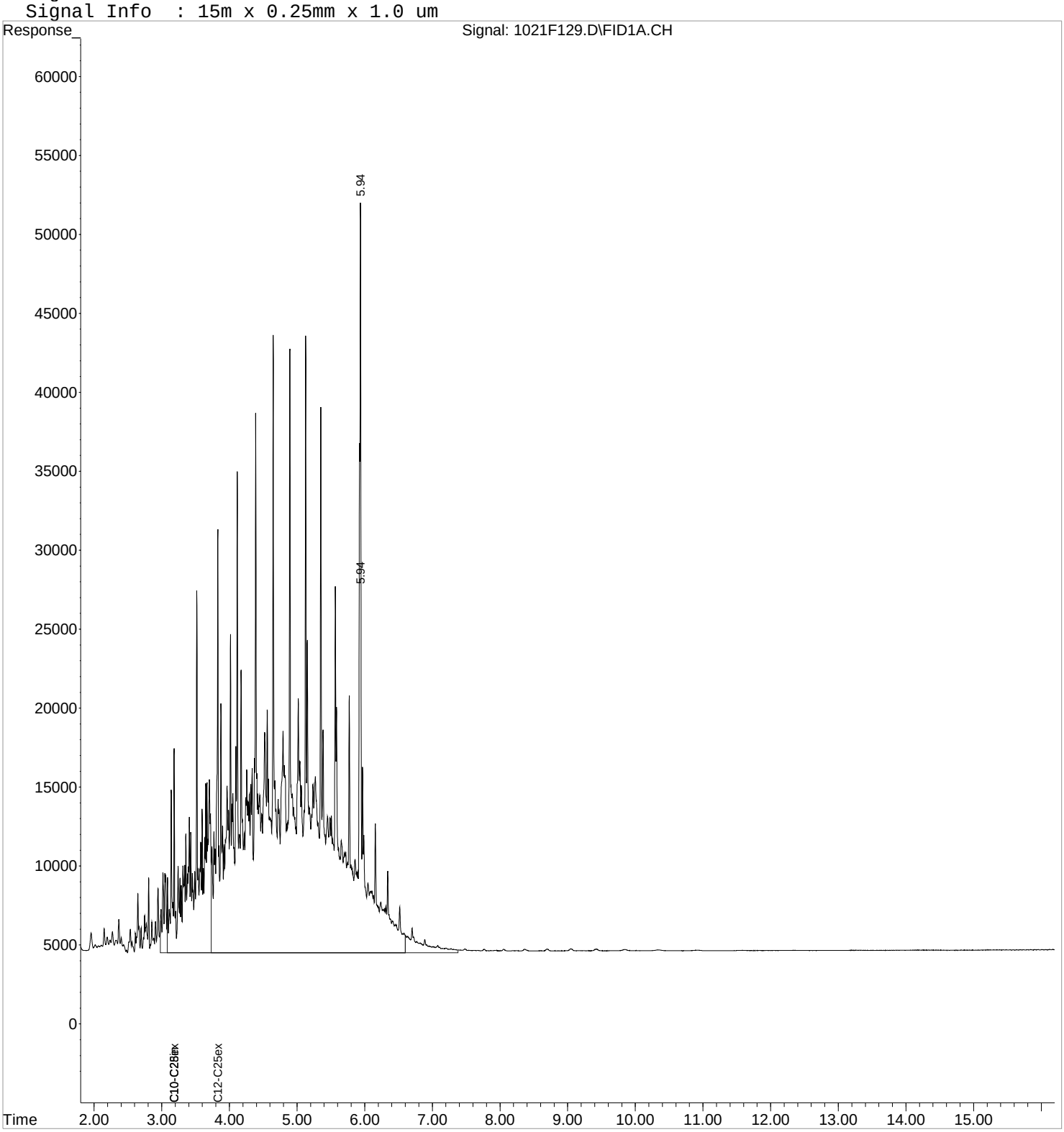
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102119F\1021F129.D Vial: 22
Acq On : 22 Oct 2019 12:54 am Operator: TAP
Sample : SVF02-75I ICV DRO Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 24 9:07 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16110
Last Update : Thu Oct 24 08:55:49 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F119.D Vial: 86
Acq On : 24 Oct 2019 2:50 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 07:05:23 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
10) H	C25-C36in RRO [NWTPH]	6.70	6296	6.588 ppm

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

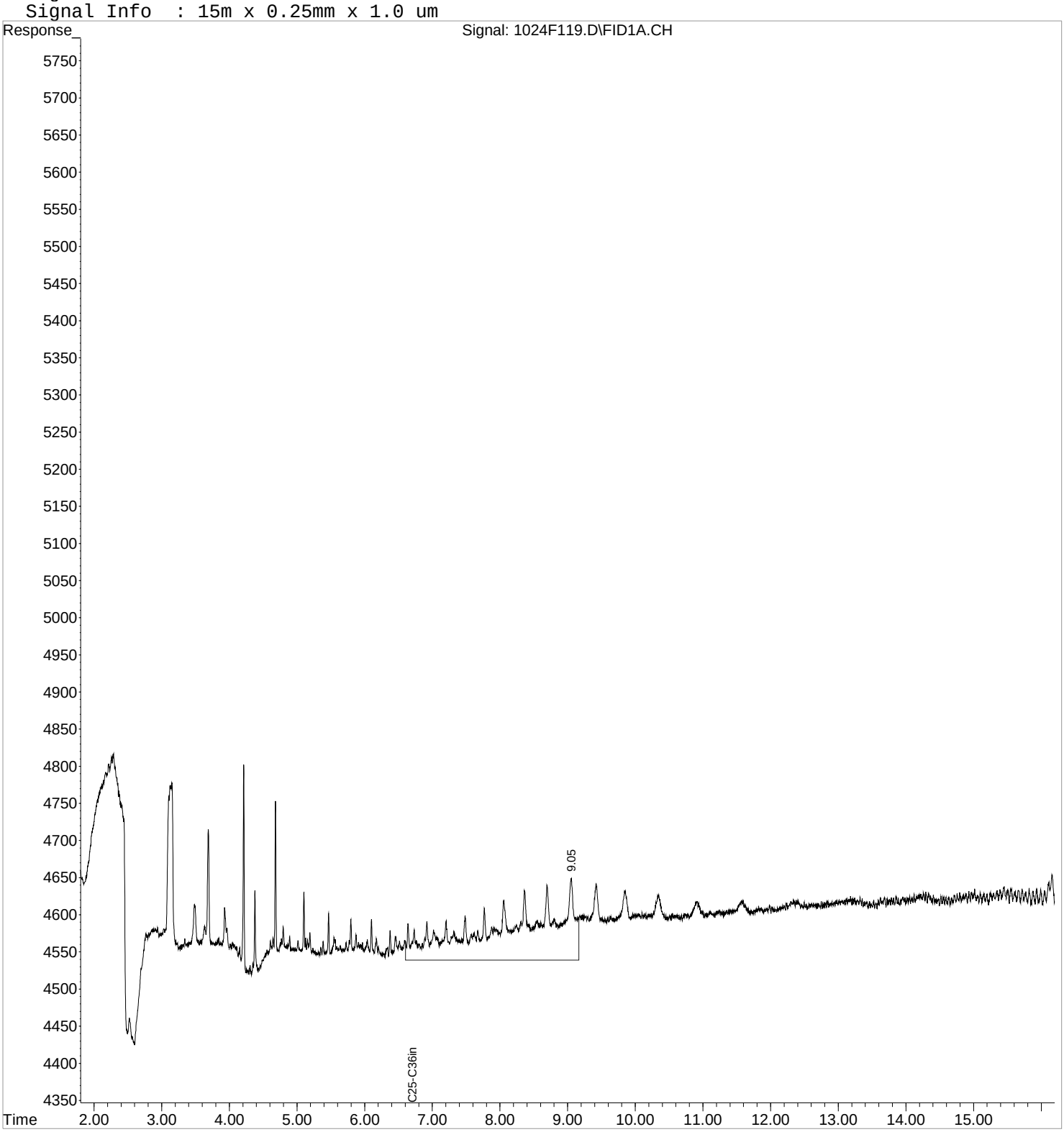
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F119.D Vial: 86
Acq On : 24 Oct 2019 2:50 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 7:06 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

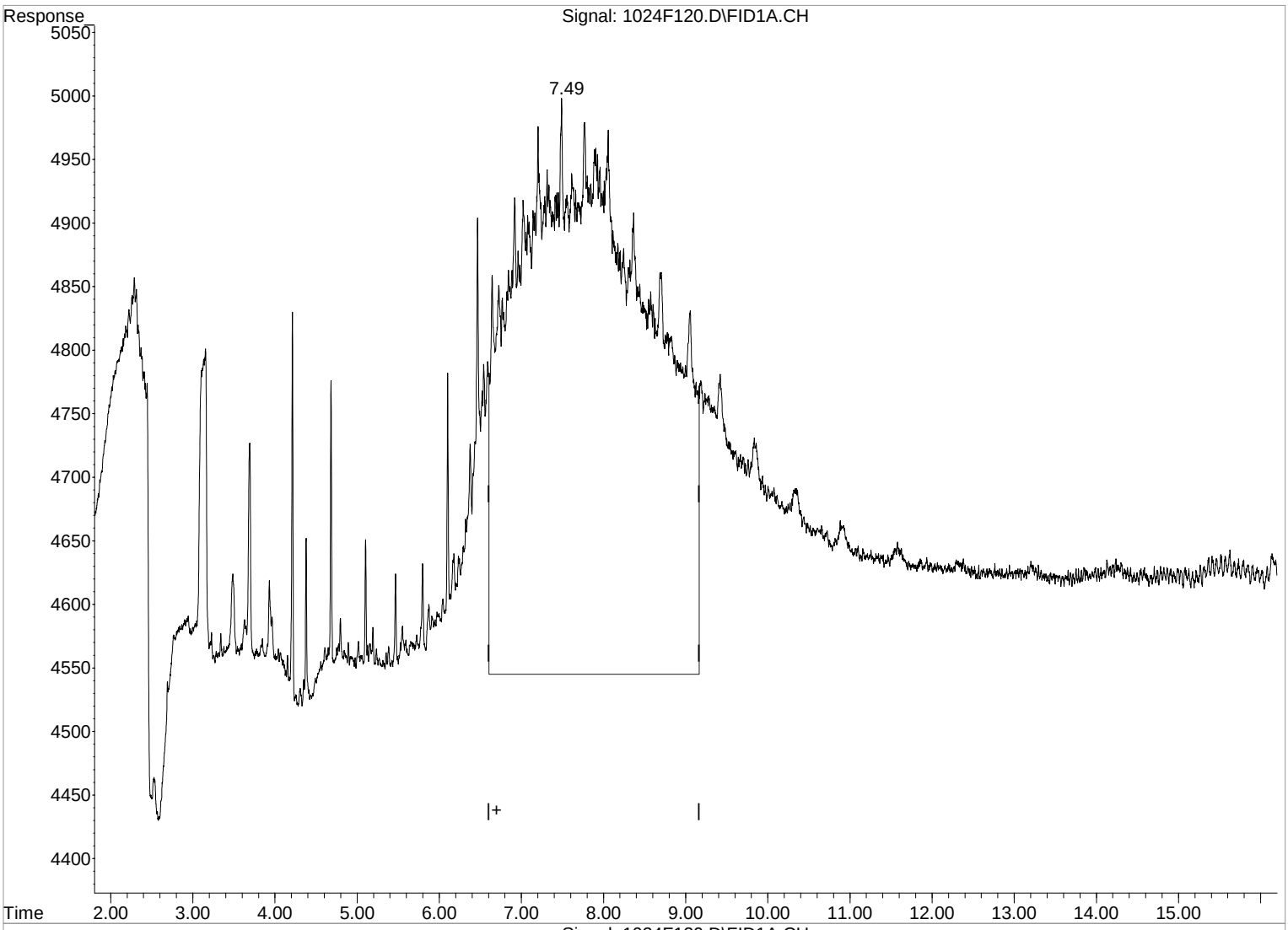


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F120.D Vial: 1
Acq On : 24 Oct 2019 3:13 pm Operator: TAP
Sample : RRO SVF02-74I 50 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 6:42 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Multiple Level Calibration



Signal: 1024F120.D\FID1A.CH

(10) Phytane

5.28min 51.832ppm d

response 49532

Manual Integration:

After

Baseline/Shoulder

10/25/19

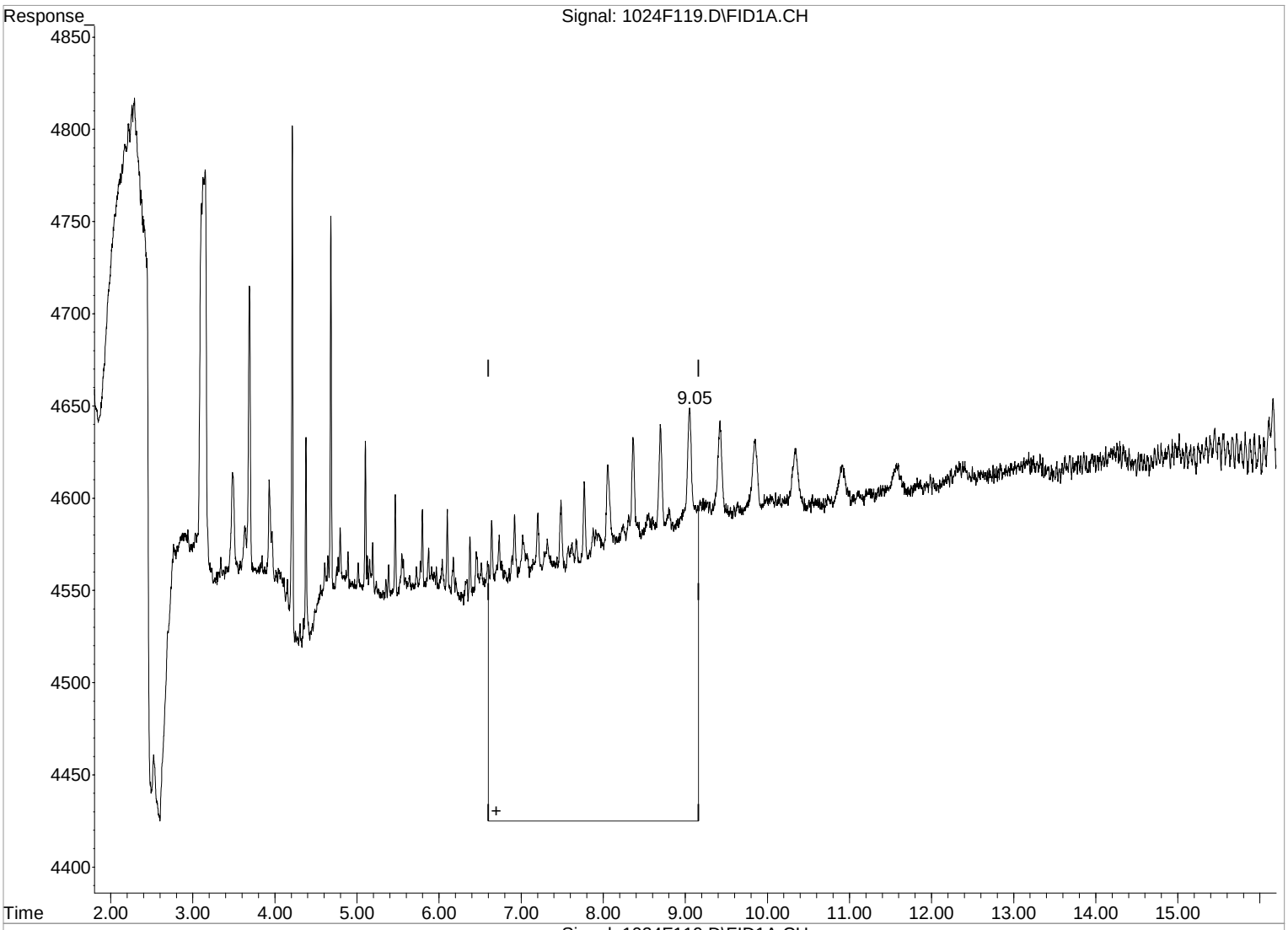
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F119.D Vial: 86
Acq On : 24 Oct 2019 2:50 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 7:05 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Multiple Level Calibration



Signal: 1024F119.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 24.906ppm

response 23801

Manual Integration:

Before

10/25/19

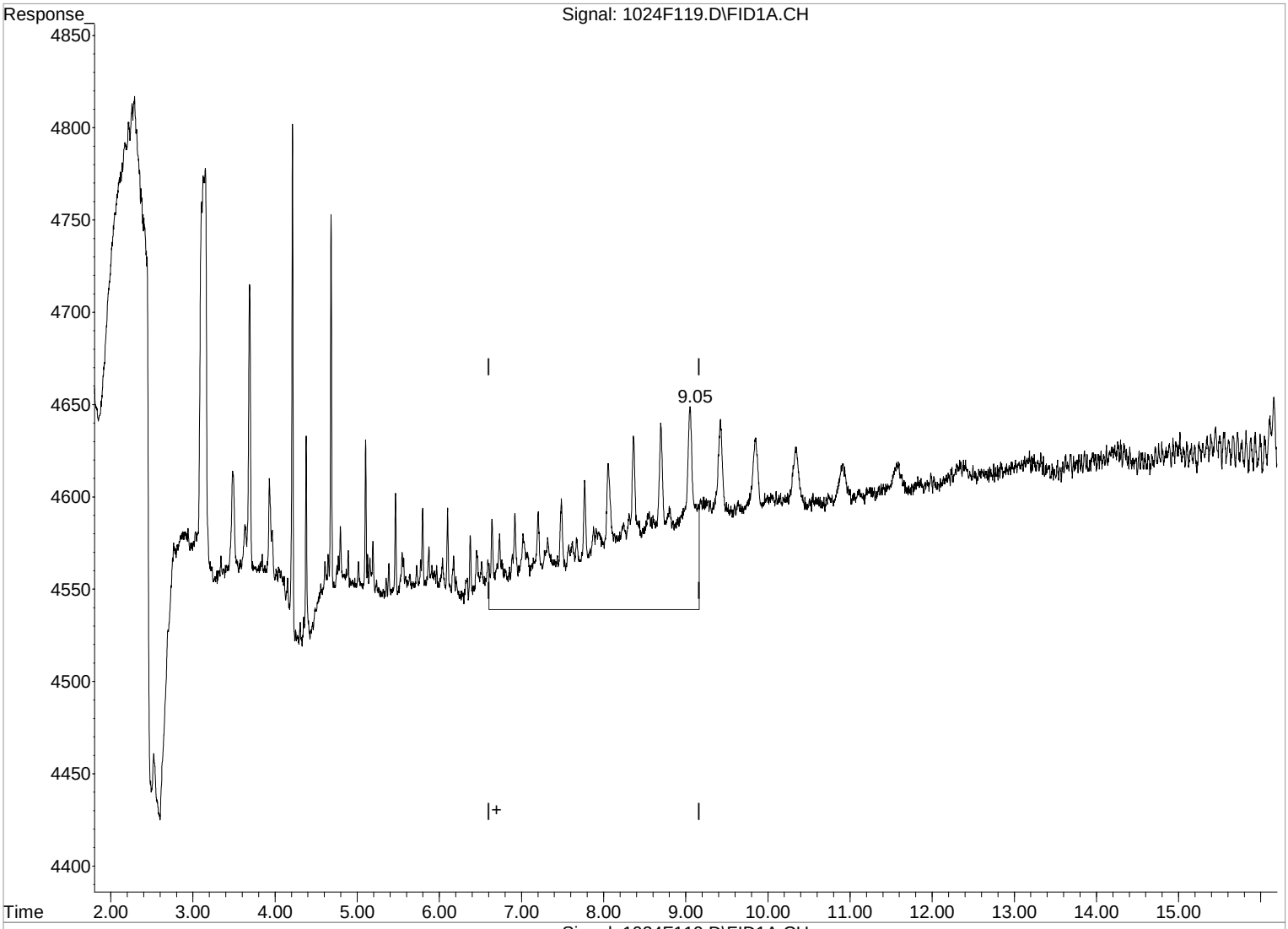
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F119.D Vial: 86
Acq On : 24 Oct 2019 2:50 pm Operator: TAP
Sample : IB Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 7:05 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Multiple Level Calibration



Signal: 1024F119.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 6.588ppm

response 6296

Manual Integration:

After

Baseline/Shoulder

10/25/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F120.D Vial: 1
Acq On : 24 Oct 2019 3:13 pm Operator: TAP
Sample : RRO SVF02-74I 50 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 06:42:49 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
10) H	C25-C36in RRO [NWTPH]	6.70	49532	51.832 ppm

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

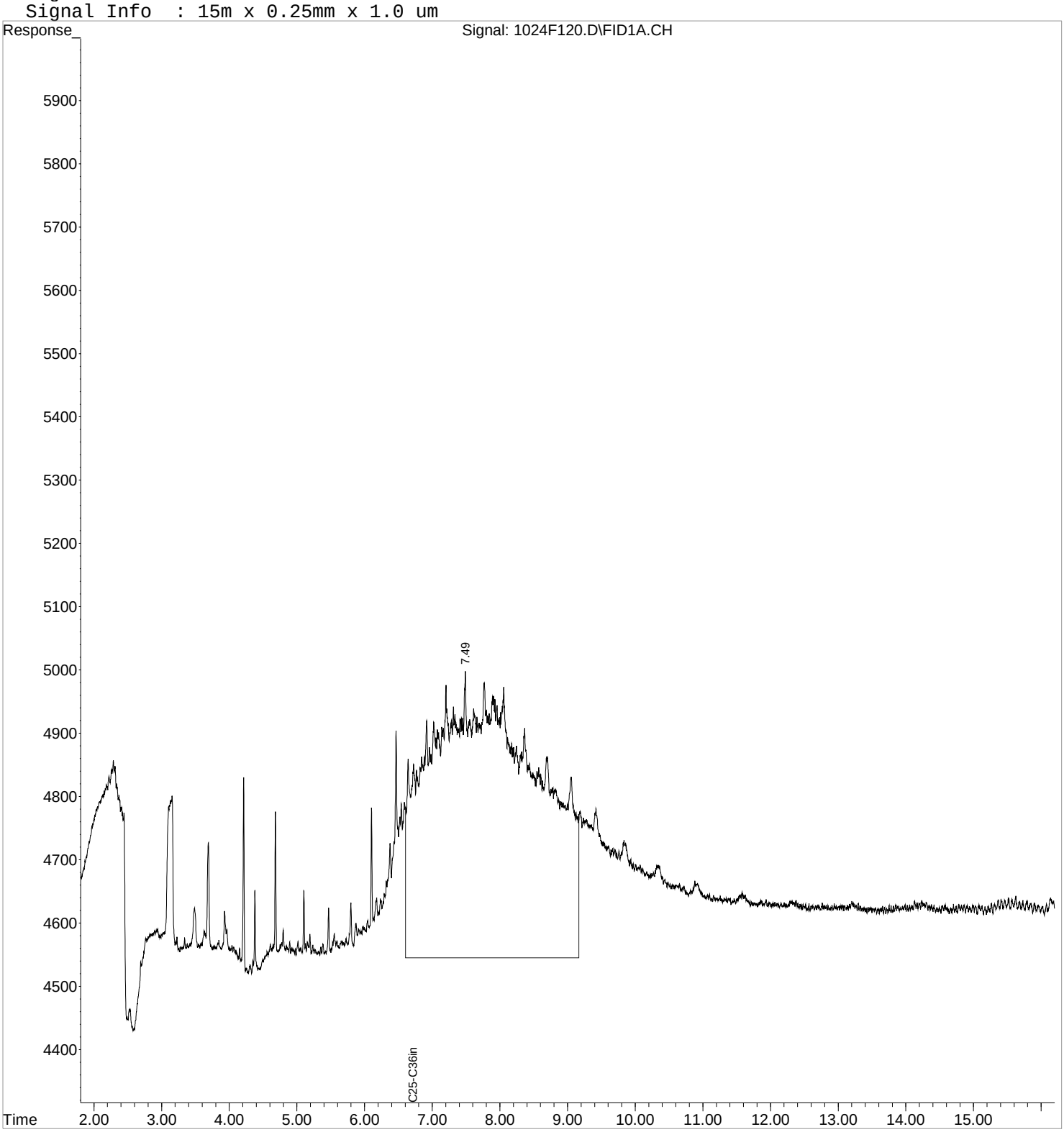
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F120.D Vial: 1
Acq On : 24 Oct 2019 3:13 pm Operator: TAP
Sample : RRO SVF02-74I 50 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 6:43 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

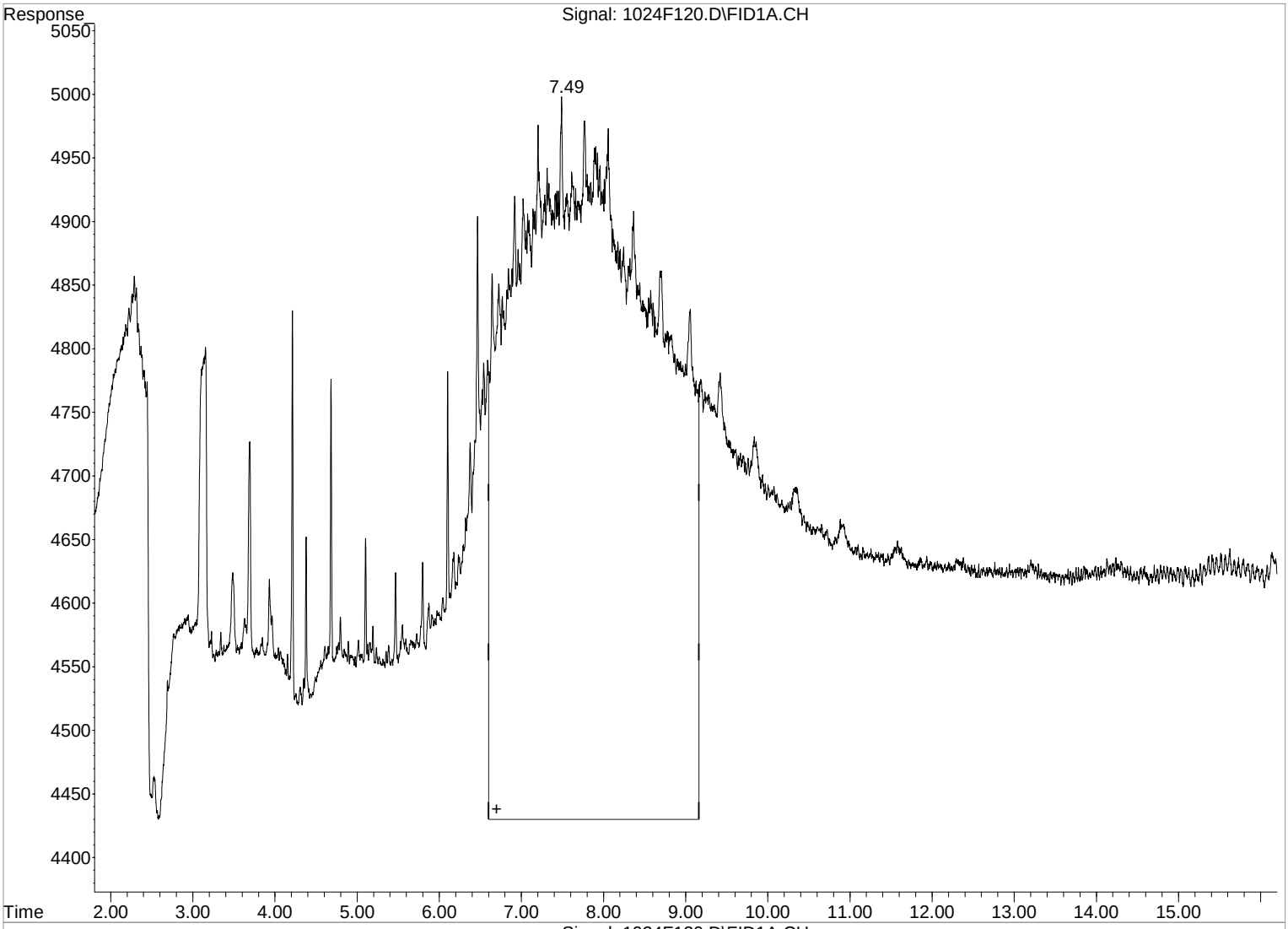


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102419F\1024F120.D Vial: 1
Acq On : 24 Oct 2019 3:13 pm Operator: TAP
Sample : RRO SVF02-74I 50 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 6:42 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Thu Oct 24 14:52:40 2019
Response via : Multiple Level Calibration



Signal: 1024F120.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 70.321ppm

response 67200

Manual Integration:

Before

10/25/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F109.D Vial: 86
Acq On : 25 Oct 2019 10:33 am Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 10:52:49 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
10) H	C25-C36in RRO [NWTPH]	6.70	6987	7.633 ppm

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

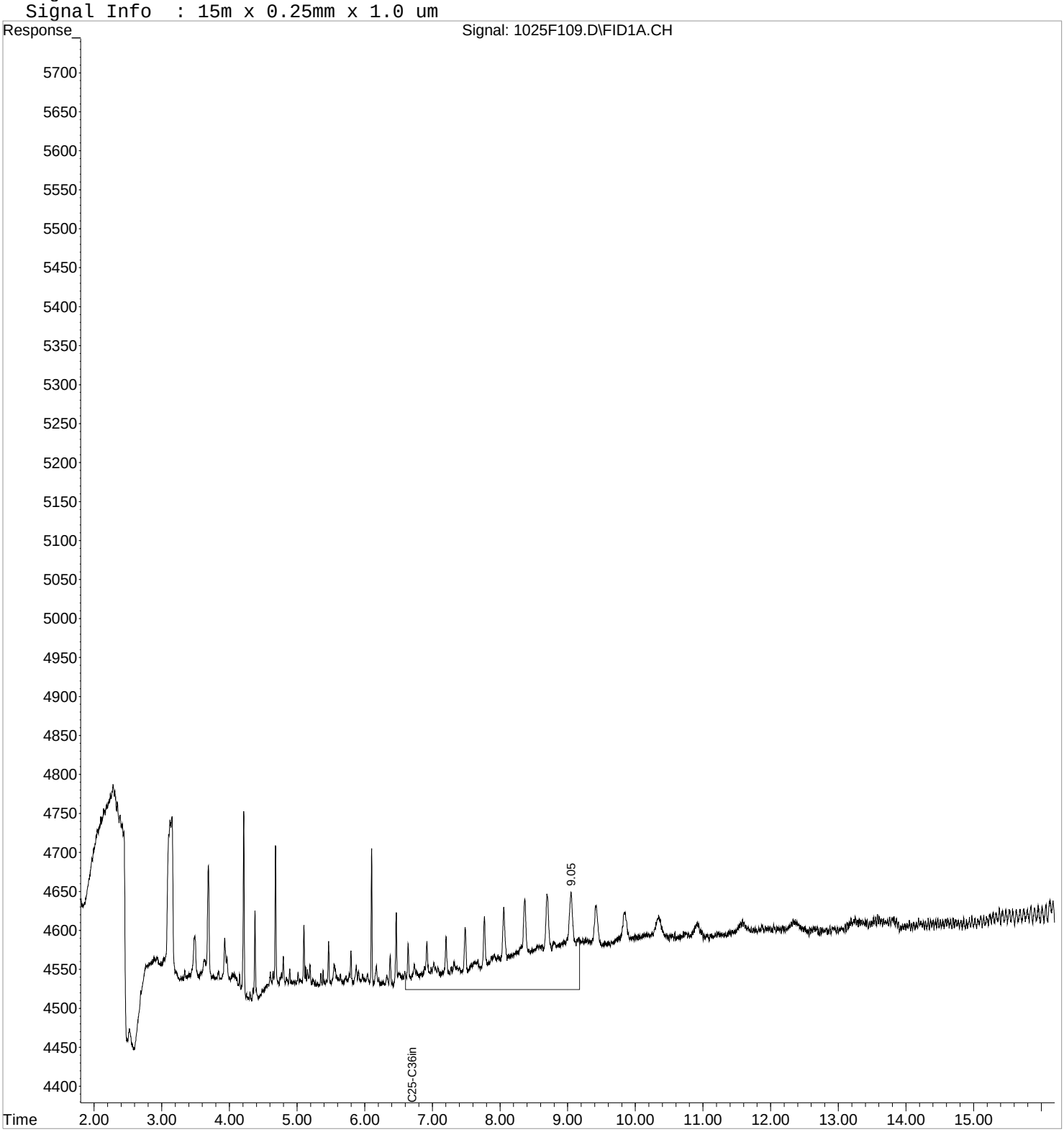
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F109.D Vial: 86
Acq On : 25 Oct 2019 10:33 am Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 10:53 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

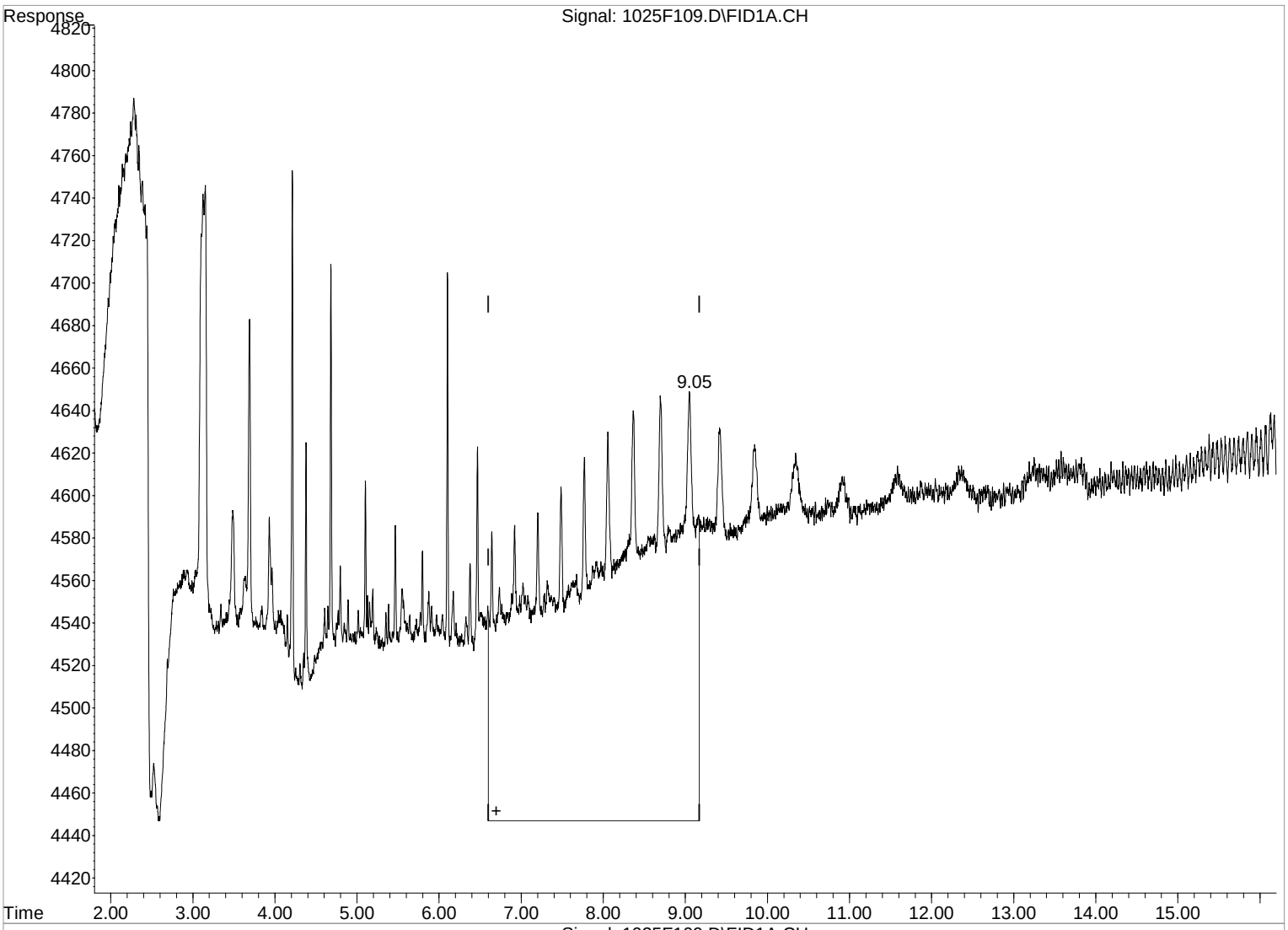


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F109.D Vial: 86
Acq On : 25 Oct 2019 10:33 am Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 10:52 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Multiple Level Calibration



Signal: 1025F109.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 20.580ppm

response 18839

Manual Integration:

Before

10/25/19

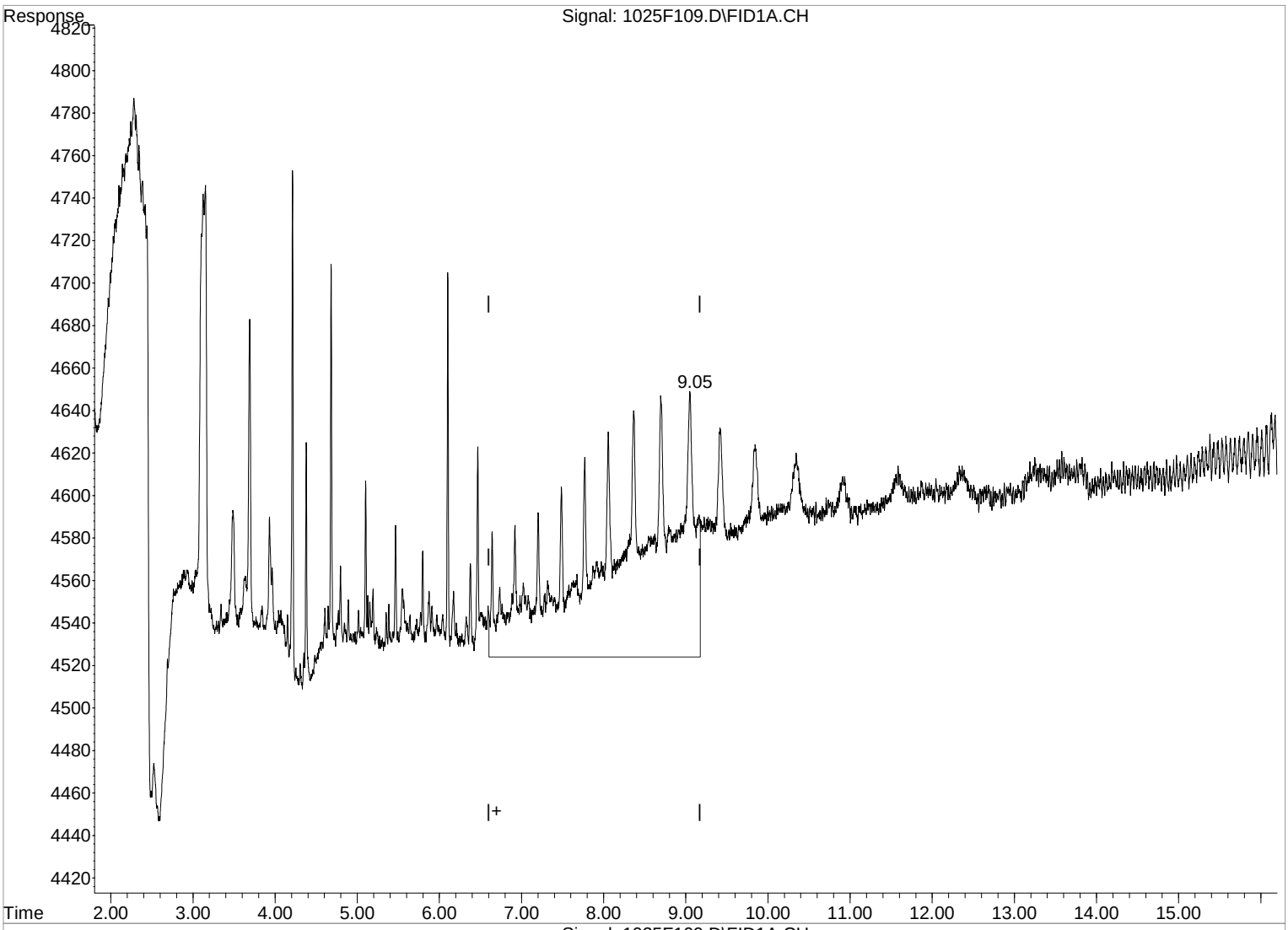
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F109.D Vial: 86
Acq On : 25 Oct 2019 10:33 am Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 10:52 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Multiple Level Calibration



Signal: 1025F109.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 7.633ppm

response 6987

Manual Integration:

After

Baseline/Shoulder

10/25/19

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F110.D Vial: 1
Acq On : 25 Oct 2019 10:55 am Operator: TAP
Sample : RRO ICV 74J Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 11:15:58 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
	Target Compounds			
10) H	C25-C36in RRO [NWTPH]	6.70	817379	892.907 ppm

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

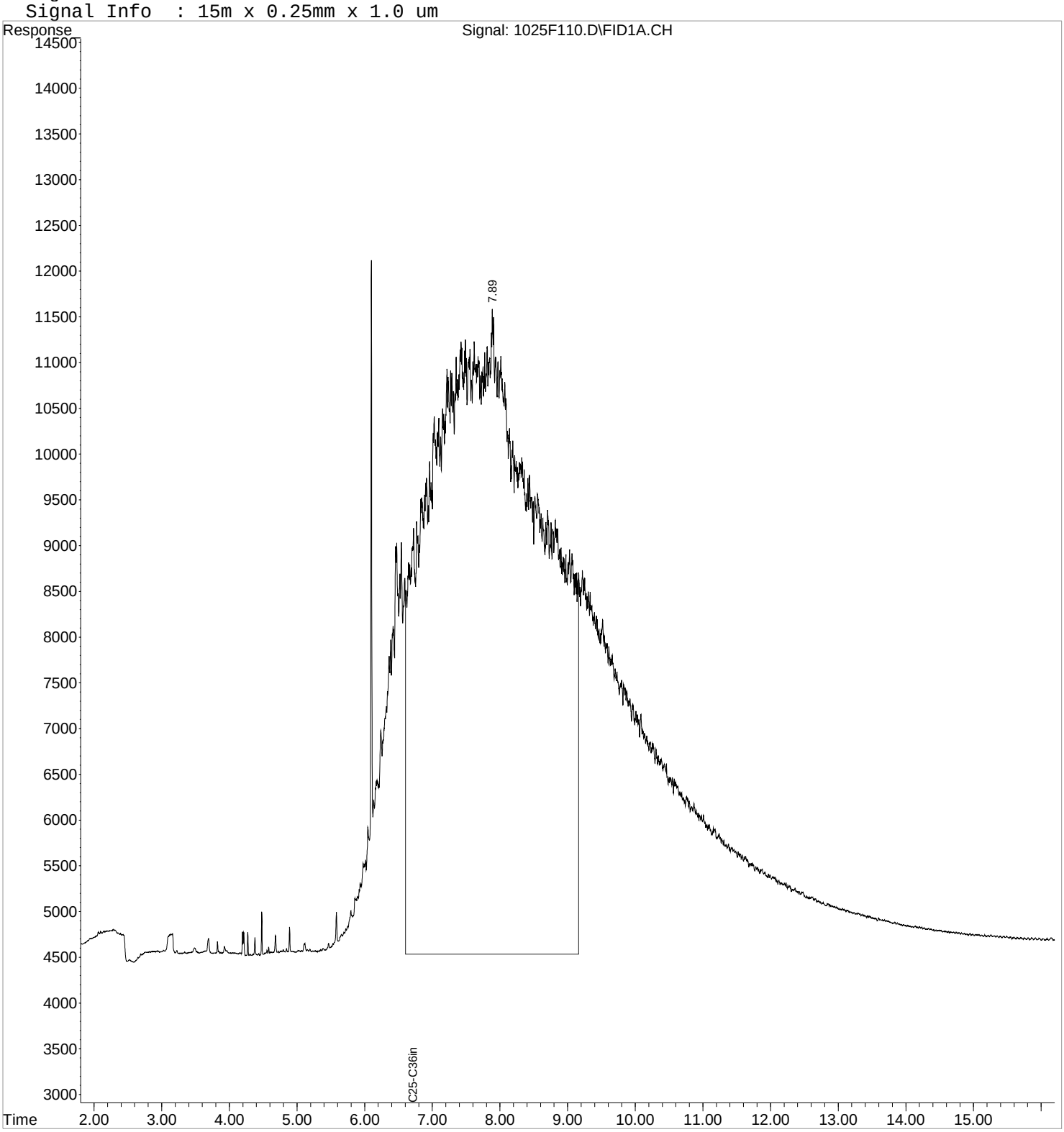
Quantitation Report (QT Reviewed)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F110.D Vial: 1
Acq On : 25 Oct 2019 10:55 am Operator: TAP
Sample : RRO ICV 74J Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 11:17 2019 Quant Results File: 102119F.RES

Quant Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

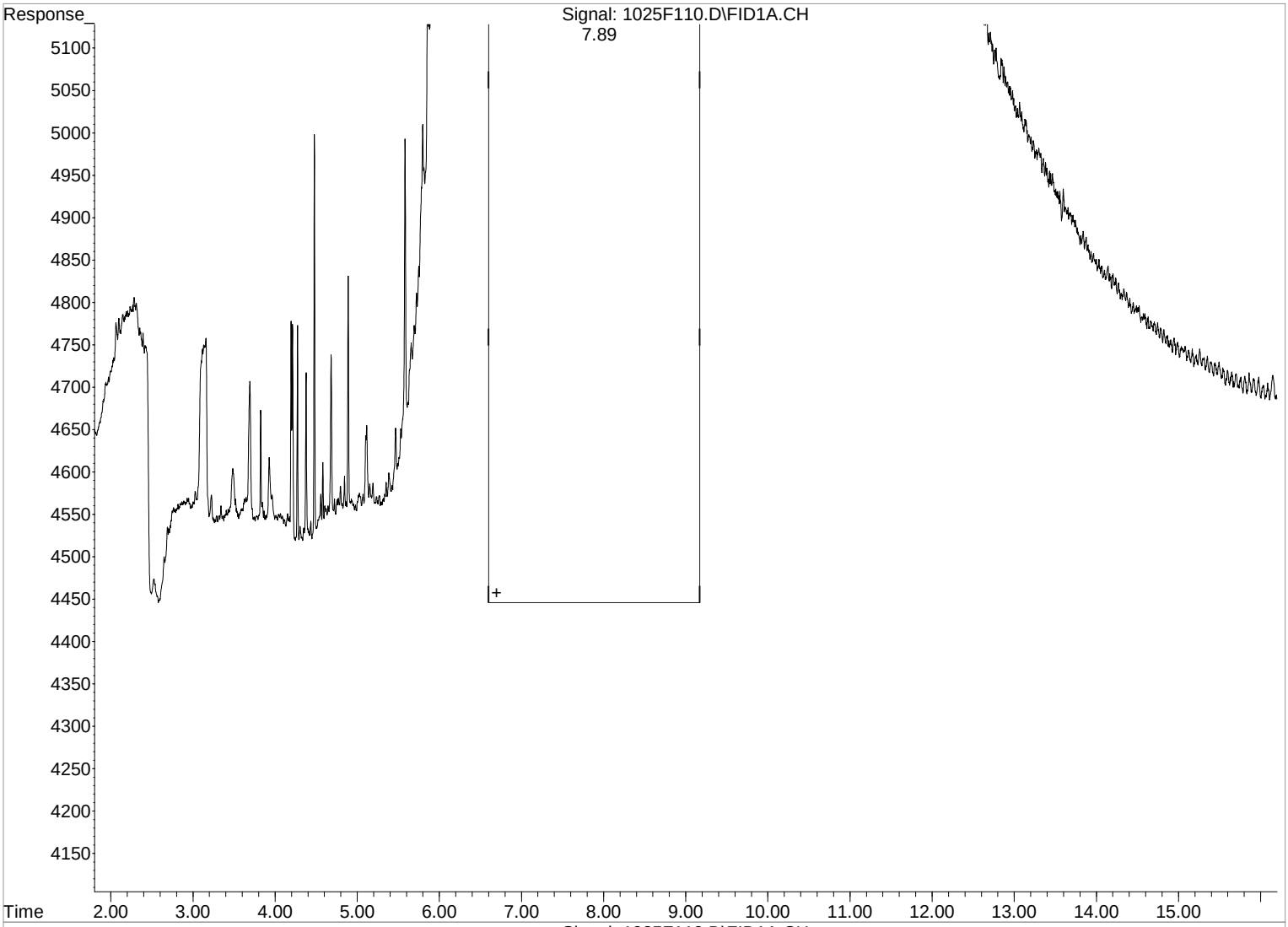


Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F110.D Vial: 1
Acq On : 25 Oct 2019 10:55 am Operator: TAP
Sample : RRO ICV 74J Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 11:15 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Multiple Level Calibration



Signal: 1025F110.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 911.128ppm

response 834058

Manual Integration:

Before

10/25/19

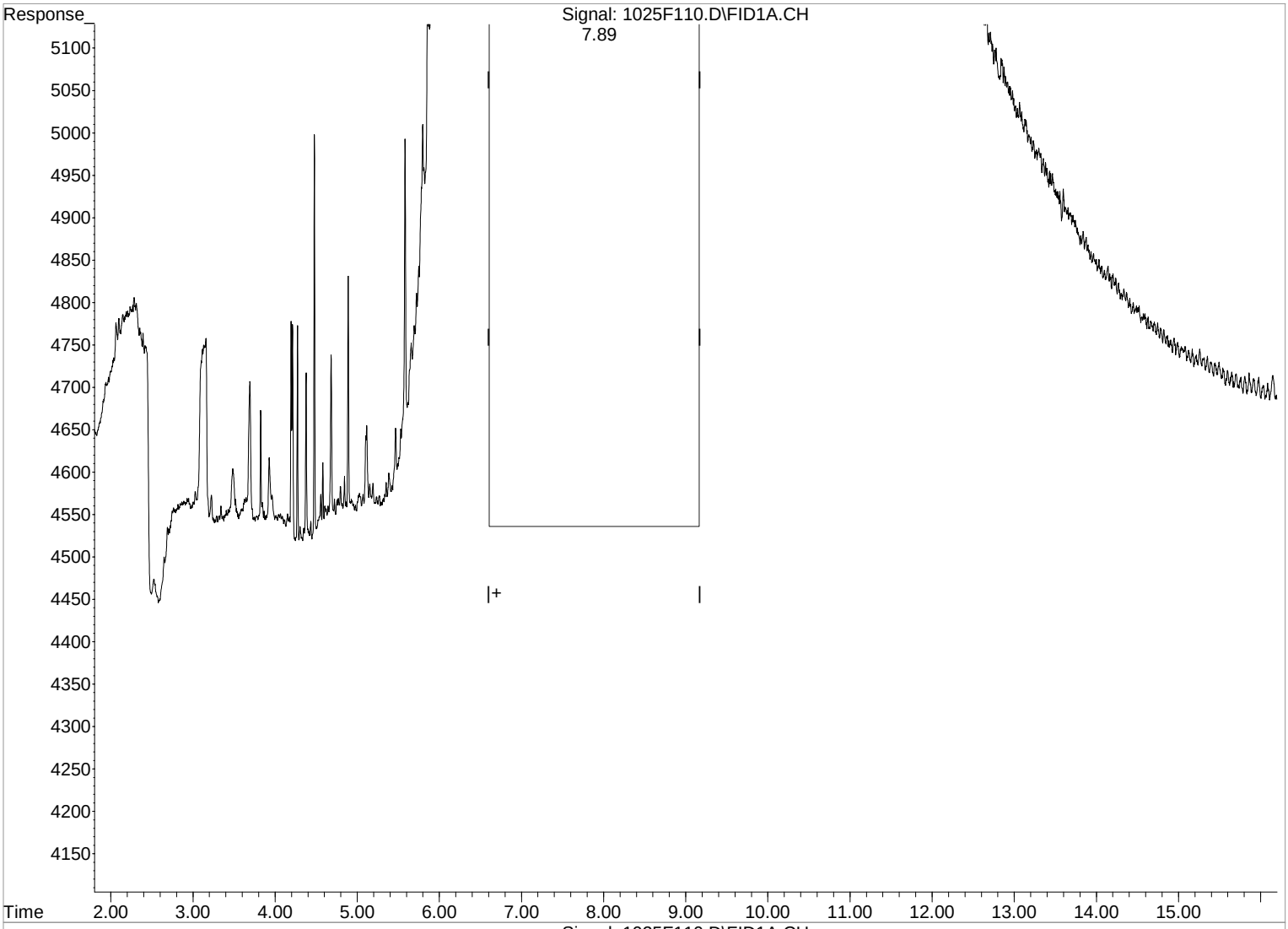
(+) = Expected Retention Time

Quantitation Report (Qedit)

1st TP 10/25/19
2nd TP 10/25/19

Data File : J:\GC21\DATA\102519F\1025F110.D Vial: 1
Acq On : 25 Oct 2019 10:55 am Operator: TAP
Sample : RRO ICV 74J Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Oct 25 11:15 2019 Quant Results File: 102119F.RES

Method : J:\GC21\METHODS\102119F.M (RTE Integrator)
Title : 8015/NWTPH/AK SVF MJ257 CAL16158
Last Update : Fri Oct 25 10:52:39 2019
Response via : Multiple Level Calibration



Signal: 1025F110.D\FID1A.CH

(10) C25-C36in RRO [NWTPH] (H)

6.70min 892.907ppm

response 817379

Manual Integration:

After

Baseline/Shoulder

10/25/19

(+) = Expected Retention Time

Injection Log

Directory: J:\GC21\DATA\062420F

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	90	0624F101.D	1.	DCM		06/24/22020 7:08:1
2	90	0624F102.D	1.	DCM		06/24/22020 7:30:3
3	90	0624F103.D	1.	DCM	CAL16321	06/24/22020 7:53:0
4	90	0624F104.D	1.	DCM	062520FJP8.M	06/24/22020 8:15:3
5	90	0624F105.D	1.	DCM		06/24/22020 8:38:0
6	90	0624F106.D	1.	DCM		06/24/22020 9:00:3
7	90	0624F107.D	1.	DCM		06/24/22020 9:23:0
8	90	0624F108.D	1.	IB		06/24/22020 9:45:4
9	90	0624F109.D	1.	IB		06/24/22020 10:08:1
10	90	0624F110.D	1.	IB	Excluded for JP-8 by 8015 only.	06/24/22020 10:30:5
11	90	0624F111.D	1.	IB	JP 06/25/20	06/24/22020 10:53:2
12	90	0624F112.D	1.	IB		06/24/22020 11:15:5
13	91	0624F113.D	1.	ALIPHATICS		06/24/22020 11:38:3
14	1	0624F114.D	1.	JP8 1000		06/24/22020 12:01:0
15	90	0624F115.D	1.	IB		06/24/22020 12:23:3
16	90	0624F116.D	1.	IB		06/24/22020 12:46:1
17	90	0624F117.D	1.	IB		06/24/22020 1:08:4
18	90	0624F118.D	1.	IB		06/24/22020 1:31:1
19	90	0624F119.D	1.	IB		06/24/22020 1:53:5
20	90	0624F120.D	1.	IB		06/24/22020 2:16:2
21	90	0624F121.D	1.	IB		06/24/22020 2:38:5
22	90	0624F122.D	1.	IB		06/24/22020 3:01:2
23	90	0624F123.D	1.	IB		06/24/22020 3:24:0
24	90	0624F124.D	1.	IB		06/24/22020 3:46:3
25	99	0624F125.D	1.	MC252-PRIMER		06/24/22020 4:52:0
26	91	0624F126.D	1.	ALIPHATICS-MARKER		06/24/22020 5:14:3
27	86	0624F127.D	1.	ICAL BLANK		06/24/22020 5:37:1
28	90	0624F128.D	1.	IB		06/24/22020 7:34:5
29	90	0624F129.D	1.	IB		06/24/22020 7:57:1
30	90	0624F130.D	1.	IB		06/24/22020 8:19:4
31	86	0624F131.D	1.	ICAL BLANK		06/24/22020 8:42:1
32	1	0624F132.D	1.	SVF02-90D 20/1.0		06/24/22020 9:04:4
33	2	0624F133.D	1.	SVF02-90C 50/2.5		06/24/22020 9:27:0
34	3	0624F134.D	1.	SVF02-90B 200/10		06/24/22020 9:49:4
35	4	0624F135.D	1.	SVF02-90A 500/25		06/24/22020 10:12:0
36	5	0624F136.D	1.	SVF02-89K 2000/100		06/24/22020 10:34:3
37	6	0624F137.D	1.	SVF02-89J 5000/250		06/24/22020 10:57:0
38	7	0624F138.D	1.	SVF02-89I 20000		06/24/22020 11:19:2
39	8	0624F139.D	1.	SVF02-89H 50000		06/24/22020 11:41:5
40	86	0624F140.D	1.	IB		06/25/22020 12:04:2
41	86	0624F141.D	1.	IB		06/25/22020 12:26:4
42	9	0624F142.D	1.	SVF02-90E ICV		06/25/22020 12:49:1
43	90	0624F143.D	1.	IB		06/25/22020 1:11:4
44	90	0624F144.D	1.	IB		06/25/22020 1:34:0
45	90	0624F145.D	1.	IB		06/25/22020 1:56:3
46	90	0624F146.D	1.	IB		06/25/22020 2:19:0
47	21	0624F147.D	1.	JP8 MS CHECK 10X		06/25/22020 2:41:2
48	90	0624F148.D	1.	IB		06/25/22020 3:03:5
49	90	0624F149.D	1.	IB		06/25/22020 3:26:2
50	90	0624F150.D	1.	IB		06/25/22020 3:48:4
51	90	0624F151.D	1.	IB		06/25/22020 4:11:1
52	90	0624F152.D	1.	IB		06/25/22020 4:33:4
53	96	0624F153.D	1.	DRO@1000/50 SVF02-89D		06/25/22020 4:56:0
54	97	0624F154.D	1.	RRO@1000 SVF02-89F		06/25/22020 5:18:3
55	98	0624F155.D	1.	AK103@1000 SVF02-85E		06/25/22020 5:41:0

ALS-Kelso
Initial Calibration Checklist GC

Method: 8015C-JP8
ICAL ID or Date: CAL16321
Instrument: GC21

Primary	Secondary	
☑	☐	The new ICAL is saved with a unique ID.
☑	☑	ICAL was performed continuously (i.e. not interrupted by maintenance event).
☑	☐	All analytes in blank are < ½ MRL.
☑	☐	ICAL contains minimum number of concentrations.
☑	☑	No internal levels excluded for any analytes.
☑	☑	Retention times updated using a midpoint of the calibration. Secondary reviewer doubl check peak IDs.
☑	☑	Calibration files quantitated with new method.
☑	☑	Check integrations. Primary reviewer must check all integrations electronically. Secondary reviewer will check low point and high point electronically.
☑	☑	ICAL files added to calibration table.
☑	☑	The average RF or COD meets method criteria for all analytes.
☑	☑	ICV is quantitated against new ICAL.
☑	☑	ICV meets method criteria.
☑	☑	Linked in Stealth to an appropriate method. An appropriate method will be one that contains all analytes that were analyzed.
☑	☑	All calibration reports included: ICAL SUMMARY, ICAL DETAILED, ICV SUMMARY.
☑	☑	Enviroquant/Target responses match those in Stealth.
☑	☐	All quant reports and manual integrations initialed and dated.

Data packet should be in the following order: Sequence log, Calibration Review, Stealth ICAL reports, and quant reports.

Primary: _____ Date: 6-25-20

Secondary: _____ Date: 6/25/20

Initial Calibration - Summary Report

Calibration ID:	CAL16321	**Instrument ID:**	GC21
Method ID:	MJ745	**Column Name:**	ZB-1

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
4-Bromofluorobenzene	SURR	AverageRF		1.1E+3	20	6.1			NA	
o-Terphenyl	SURR	AverageRF		2.2E+3	20	6.8			NA	
n-Triacontane	SURR	AverageRF		1.8E+3	20	5.7			NA	
JP-8 (C8 - C18)	MS	AverageRF		1.8E+3	20	13.6			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL16321	**Instrument ID:**	GC21
Method ID:	MJ745	**Column Name:**	ZB-1
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	293912	J:\GC21\DATA\062420F\0624F132.D	06/24/2020 21:04	06/25/2020 06:48	06/25/2020 10:42
2	293904	J:\GC21\DATA\062420F\0624F133.D	06/24/2020 21:27	06/25/2020 06:48	06/25/2020 06:58
3	293905	J:\GC21\DATA\062420F\0624F134.D	06/24/2020 21:49	06/25/2020 06:49	06/25/2020 06:58
4	293906	J:\GC21\DATA\062420F\0624F135.D	06/24/2020 22:12	06/25/2020 06:49	06/25/2020 06:58
5	293907	J:\GC21\DATA\062420F\0624F136.D	06/24/2020 22:34	06/25/2020 06:49	06/25/2020 06:58
6	293908	J:\GC21\DATA\062420F\0624F137.D	06/24/2020 22:57	06/25/2020 06:50	06/25/2020 06:58
7	293909	J:\GC21\DATA\062420F\0624F138.D	06/24/2020 23:19	06/25/2020 06:50	06/25/2020 06:58
8	293910	J:\GC21\DATA\062420F\0624F139.D	06/24/2020 23:41	06/25/2020 06:51	06/25/2020 06:58

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
4-Bromofluorobenzene	1	1.1E+3	2	1.2E+3	3	1.1E+3	4	1.1E+3	5	1.1E+3	6	1.0E+3	1.1E+3	6.1
o-Terphenyl	1	2.3E+3	2	2.5E+3	3	2.3E+3	4	2.2E+3	5	2.1E+3	6	2.0E+3	2.2E+3	6.8
n-Triacontane	1	1.7E+3	2	1.9E+3	3	1.8E+3	4	1.8E+3	5	1.8E+3	6	1.6E+3	1.8E+3	5.7
JP-8 (C8 - C18)	1	2.2E+3	2	2.2E+3	3	1.8E+3	4	1.8E+3	5	1.7E+3	6	1.7E+3	1.8E+3	13.6
	7	1.6E+3	8	1.5E+3										

Initial Calibration - Detailed Report

Calibration ID:	CAL16321	**Instrument ID:**	GC21
Method ID:	MJ745	**Column Name:**	ZB-1

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	293912	J:\GC21\DATA\062420F\0624F132.D	06/24/2020 21:04	06/25/2020 06:48	06/25/2020 10:42
2	293904	J:\GC21\DATA\062420F\0624F133.D	06/24/2020 21:27	06/25/2020 06:48	06/25/2020 06:58
3	293905	J:\GC21\DATA\062420F\0624F134.D	06/24/2020 21:49	06/25/2020 06:49	06/25/2020 06:58
4	293906	J:\GC21\DATA\062420F\0624F135.D	06/24/2020 22:12	06/25/2020 06:49	06/25/2020 06:58
5	293907	J:\GC21\DATA\062420F\0624F136.D	06/24/2020 22:34	06/25/2020 06:49	06/25/2020 06:58
6	293908	J:\GC21\DATA\062420F\0624F137.D	06/24/2020 22:57	06/25/2020 06:50	06/25/2020 06:58
7	293909	J:\GC21\DATA\062420F\0624F138.D	06/24/2020 23:19	06/25/2020 06:50	06/25/2020 06:58
8	293910	J:\GC21\DATA\062420F\0624F139.D	06/24/2020 23:41	06/25/2020 06:51	06/25/2020 06:58

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
4-Bromofluorobenzene	1	1	1.014	1.4	2	2.5	2.735	9.4	3	10	10.20	2.0
	4	25	24.94	-0.2	5	100	96.34	-3.7	6	250	227.9	-8.9
o-Terphenyl	1	1	1.028	2.8	2	2.5	2.756	10.2	3	10	10.21	2.1
	4	25	24.74	-1.0	5	100	95.28	-4.7	6	250	226.5	-9.4
n-Triacontane	1	1	0.9470	-5.3	2	2.5	2.725	9.0	3	10	10.26	2.6
	4	25	25.26	1.0	5	100	99.49	-0.5	6	250	232.8	-6.9
JP-8 (C8 - C18)	1	20	24.39	21.9	2	50	59.15	18.3	3	200	199.4	-0.3
	4	500	505.5	1.1	5	2000	1869	-6.5	6	5000	4627	-7.5
	7	20000	17720	-11.4	8	50000	42170	-15.7				

Second Source Calibration Verification Summary

CalibrationID: CAL16321

Method ID: MJ745

DataFile Location: J:\GC21\DATA\062420F\0624F142.D

Units: mg/L

Column: ZB-1

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
JP-8 (C8 - C18)	293911	AverageRF	20	1.8E+3	1.6E+3	-14.1	1000.00	858.5	

Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F131.D Vial: 86
Acq On : 24 Jun 2020 8:42 pm Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 15:45:22 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Thu Jun 25 15:41:11 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
4) H C8-C18in JP-8	2.35	10798	5.923 ppm

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

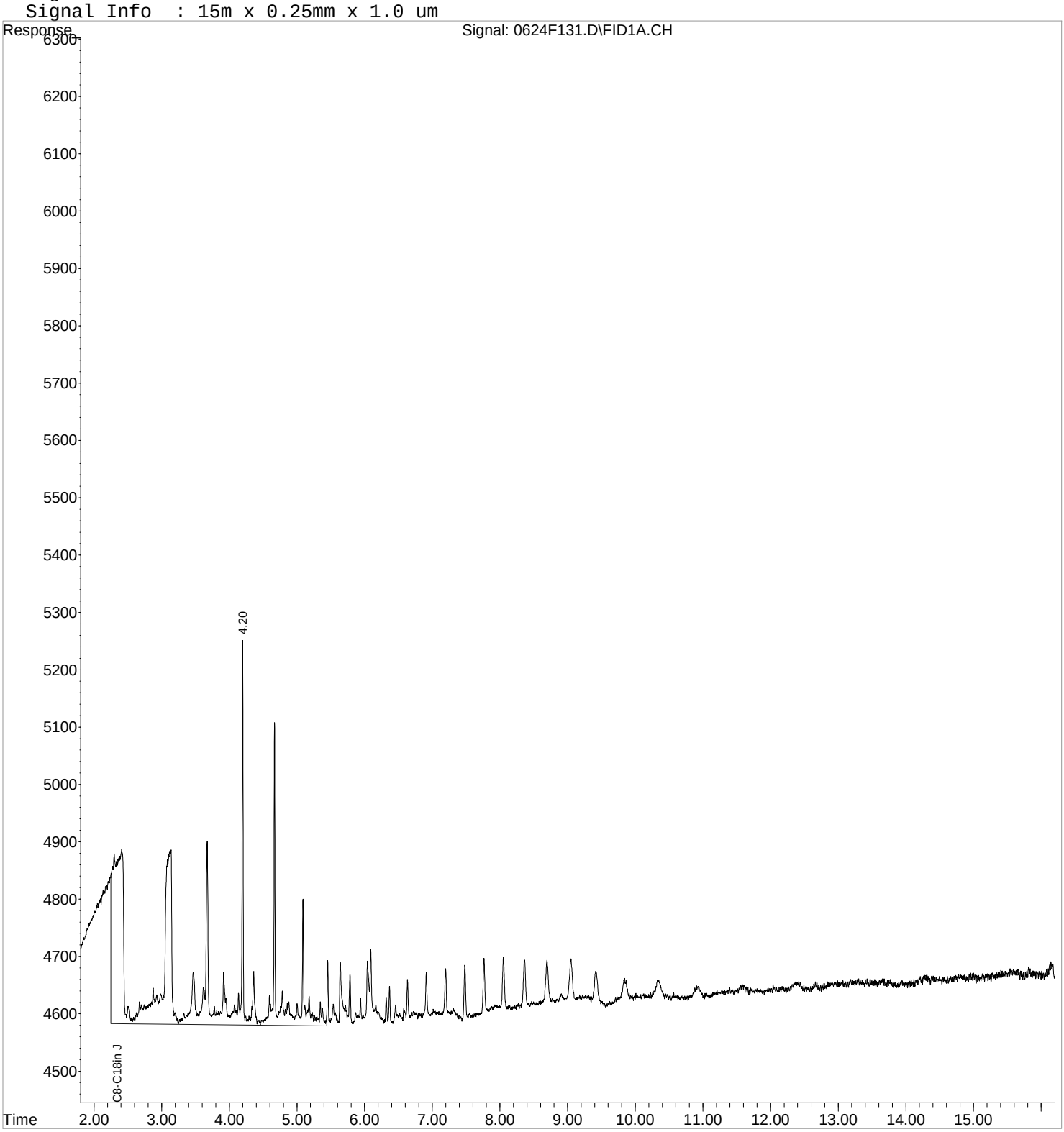
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F131.D Vial: 86
Acq On : 24 Jun 2020 8:42 pm Operator: TAP
Sample : ICAL BLANK Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 15:45 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CAL16321
Last Update : Thu Jun 25 15:41:11 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F132.D Vial: 1
Acq On : 24 Jun 2020 9:04 pm Operator: TAP
Sample : SVF02-90D 20/1.0 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:02 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:01 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	1141	2.032 ppm
Spiked Amount 50.000	Recovery =		4.06%
2) S o-Terphenyl	5.51	2297	2.077 ppm
Spiked Amount 50.000	Recovery =		4.15%
3) S n-Triacontane	7.67	1672	1.875 ppm
Spiked Amount 50.000	Recovery =		3.75%
Target Compounds			
4) H C8-C18in JP-8	2.35	44461	48.245 ppm

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

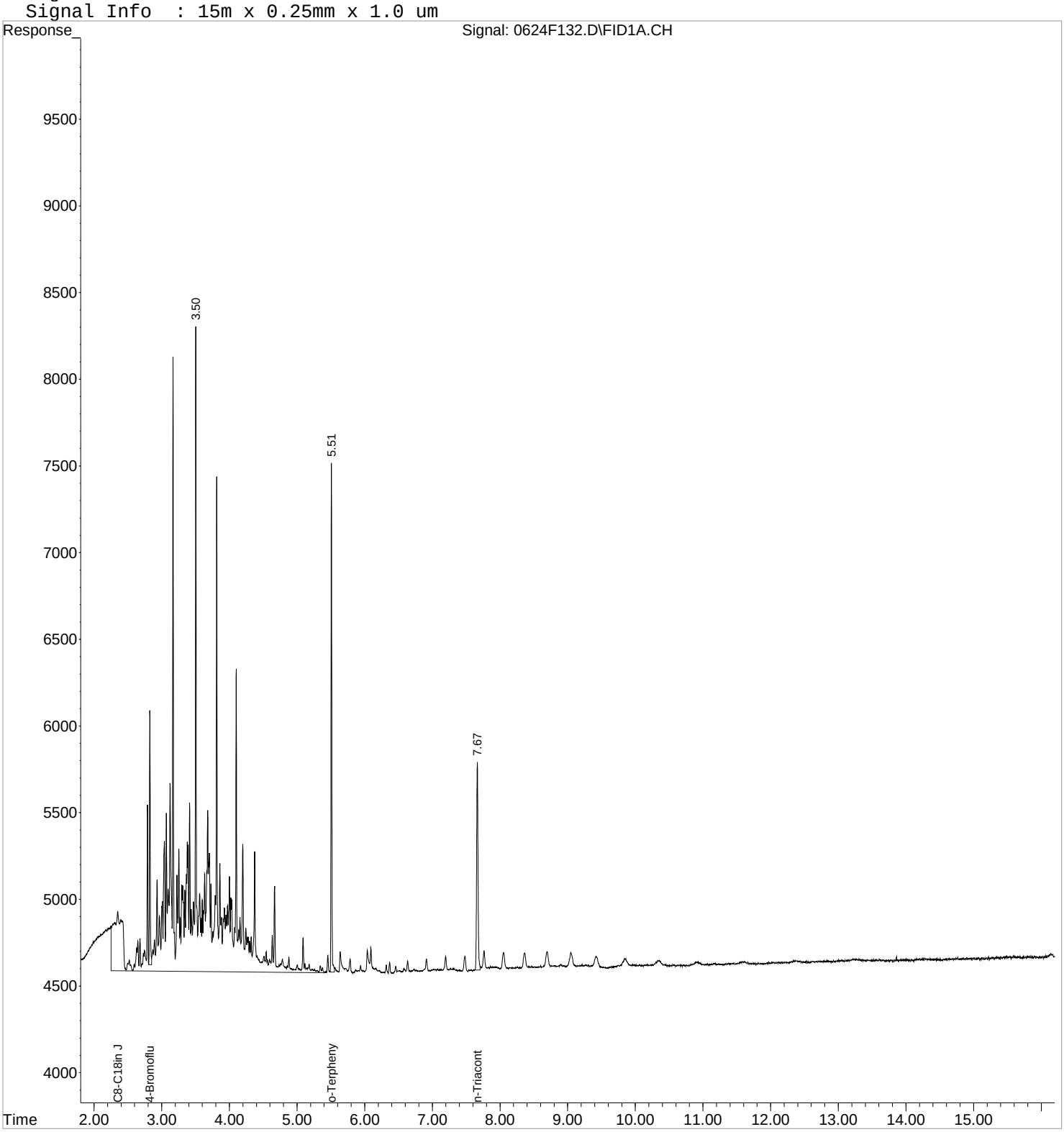
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F132.D Vial: 1
Acq On : 24 Jun 2020 9:04 pm Operator: TAP
Sample : SVF02-90D 20/1.0 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:48 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:01 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F133.D Vial: 2
Acq On : 24 Jun 2020 9:27 pm Operator: TAP
Sample : SVF02-90C 50/2.5 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:13 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:13 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	3079	3.617 ppm
Spiked Amount 50.000	Recovery =		7.23%
2) S o-Terphenyl	5.51	6158	3.619 ppm
Spiked Amount 50.000	Recovery =		7.24%
3) S n-Triacontane	7.66	4812	3.754 ppm
Spiked Amount 50.000	Recovery =		7.51%
Target Compounds			
4) H C8-C18in JP-8	2.35	107822	68.576 ppm

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

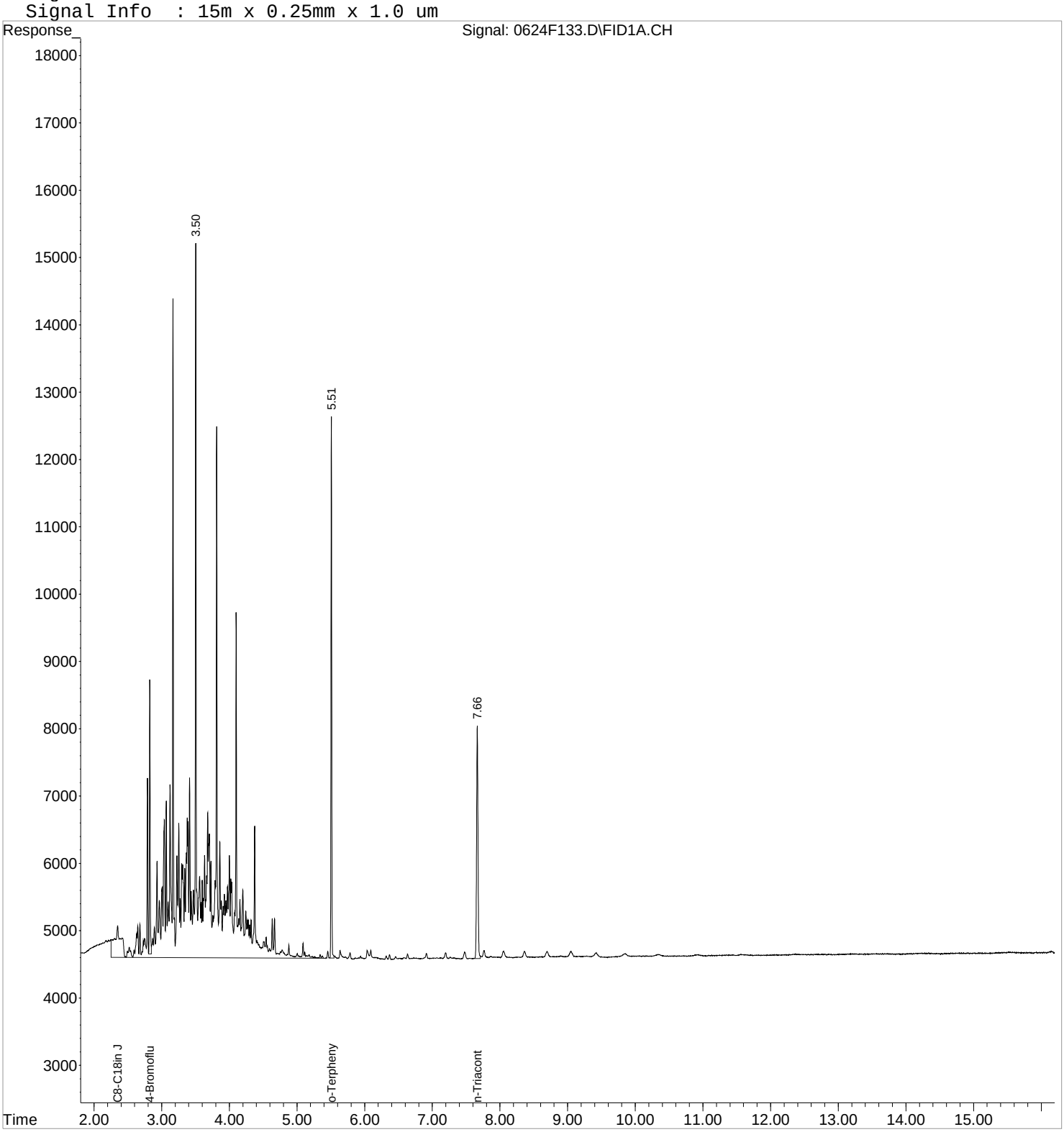
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F133.D Vial: 2
Acq On : 24 Jun 2020 9:27 pm Operator: TAP
Sample : SVF02-90C 50/2.5 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:48 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:13 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F134.D Vial: 3
Acq On : 24 Jun 2020 9:49 pm Operator: TAP
Sample : SVF02-90B 200/10 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:15 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:14 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	11478	11.736 ppm
Spiked Amount 50.000	Recovery =		23.47%
2) S o-Terphenyl	5.51	22823	11.672 ppm
Spiked Amount 50.000	Recovery =		23.34%
3) S n-Triacontane	7.66	18122	12.112 ppm
Spiked Amount 50.000	Recovery =		24.22%
Target Compounds			
4) H C8-C18in JP-8	2.35	363523	205.727 ppm

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

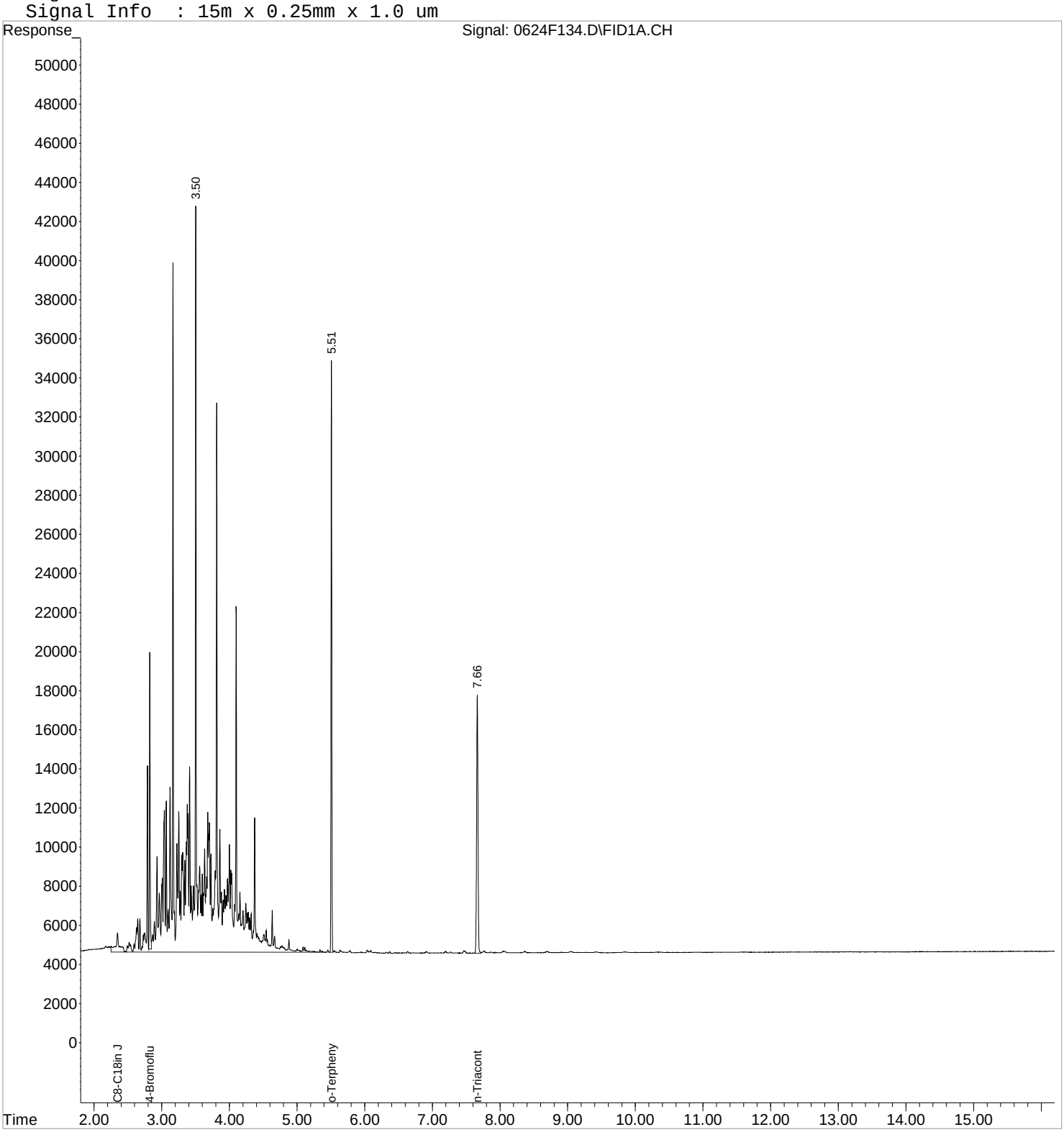
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F134.D Vial: 3
Acq On : 24 Jun 2020 9:49 pm Operator: TAP
Sample : SVF02-90B 200/10 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:49 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:14 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F135.D Vial: 4
Acq On : 24 Jun 2020 10:12 pm Operator: TAP
Sample : SVF02-90A 500/25 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:16 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:16 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	28077	27.513 ppm
Spiked Amount 50.000	Recovery =		55.03%
2) S o-Terphenyl	5.51	55286	27.140 ppm
Spiked Amount 50.000	Recovery =		54.28%
3) S n-Triacontane	7.66	44595	28.310 ppm
Spiked Amount 50.000	Recovery =		56.62%
Target Compounds			
4) H C8-C18in JP-8	2.35	921558	517.826 ppm

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

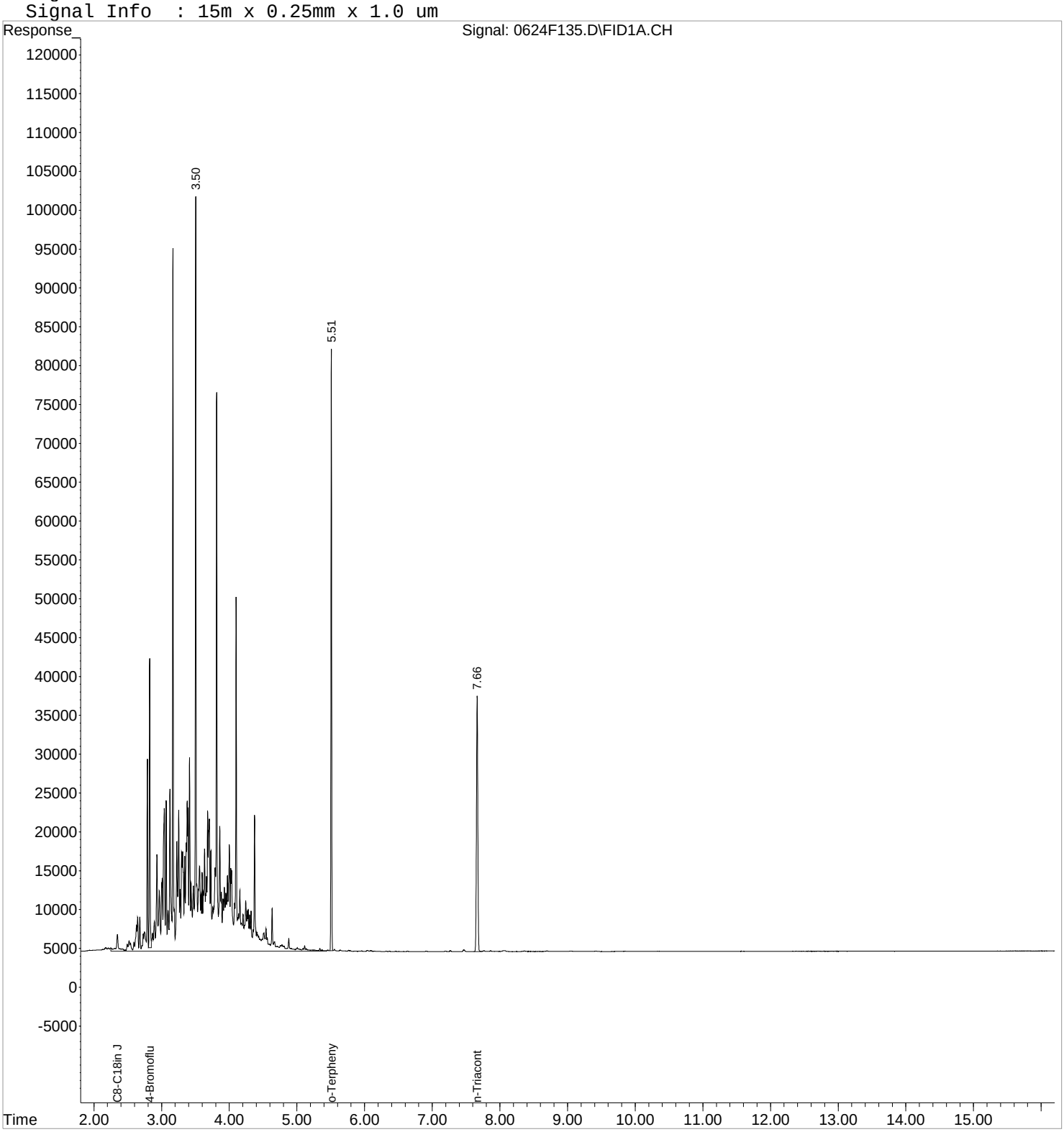
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F135.D Vial: 4
Acq On : 24 Jun 2020 10:12 pm Operator: TAP
Sample : SVF02-90A 500/25 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:49 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:16 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F136.D Vial: 5
Acq On : 24 Jun 2020 10:34 pm Operator: TAP
Sample : SVF02-89K 2000/100 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:17 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:17 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.82	108438	104.167 ppm
Spiked Amount 50.000	Recovery =		208.33%
2) S o-Terphenyl	5.51	212908	102.758 ppm
Spiked Amount 50.000	Recovery =		205.52%
3) S n-Triacontane	7.66	175657	108.635 ppm
Spiked Amount 50.000	Recovery =		217.27%
Target Compounds			
4) H C8-C18in JP-8	2.35	3407949	1901.380 ppm

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

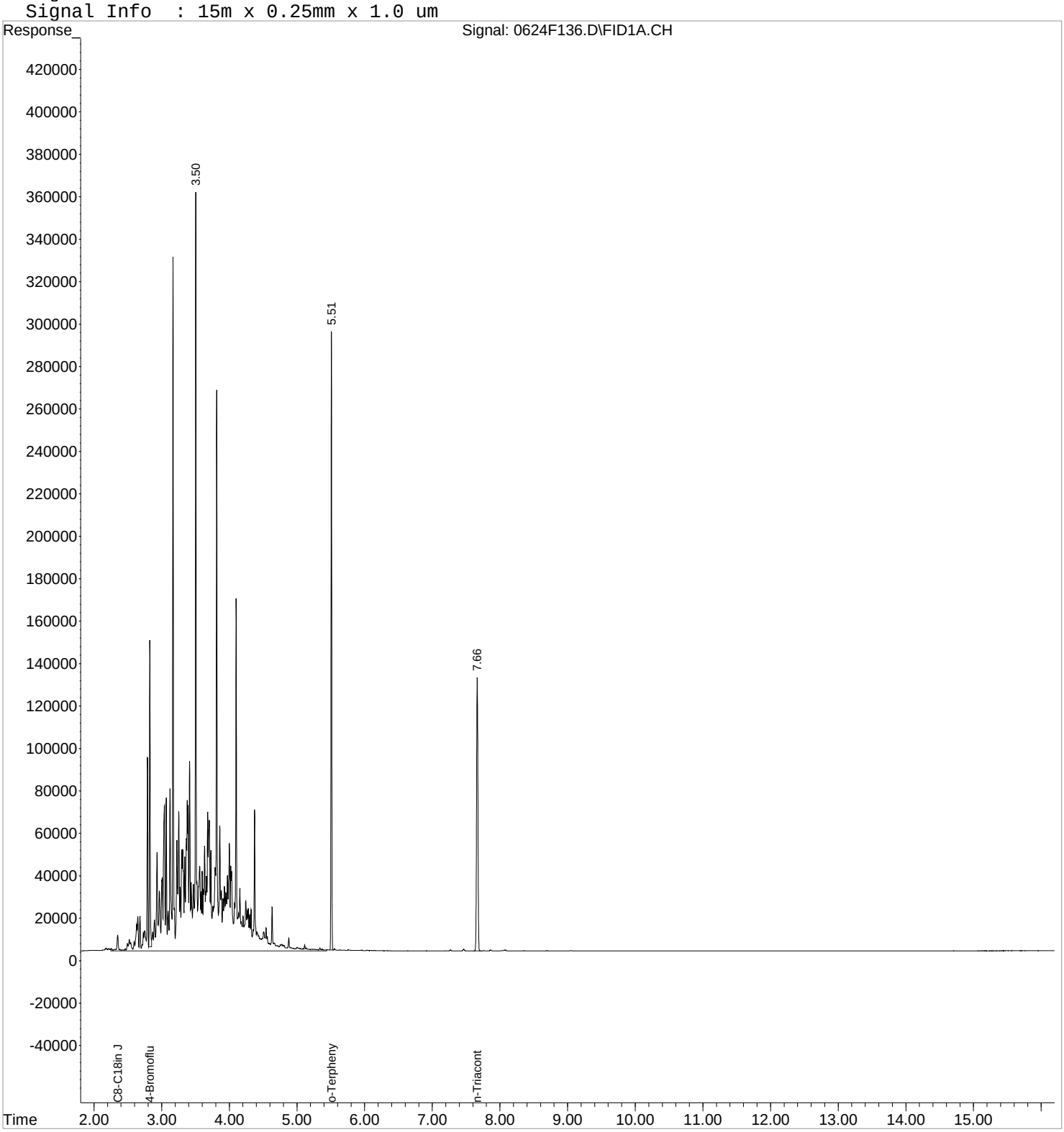
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F136.D Vial: 5
Acq On : 24 Jun 2020 10:34 pm Operator: TAP
Sample : SVF02-89K 2000/100 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:49 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:17 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F137.D Vial: 6
Acq On : 24 Jun 2020 10:57 pm Operator: TAP
Sample : SVF02-89J 5000/250 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:18 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:18 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 4-Bromofluorobenzene	2.83	256477	244.675 ppm
Spiked Amount 50.000	Recovery =		489.35%
2) S o-Terphenyl	5.51	506182	243.186 ppm
Spiked Amount 50.000	Recovery =		486.37%
3) S n-Triacontane	7.67	411123	250.652 ppm
Spiked Amount 50.000	Recovery =		501.30%
Target Compounds			
4) H C8-C18in JP-8	2.35	8434112	4744.594 ppm

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

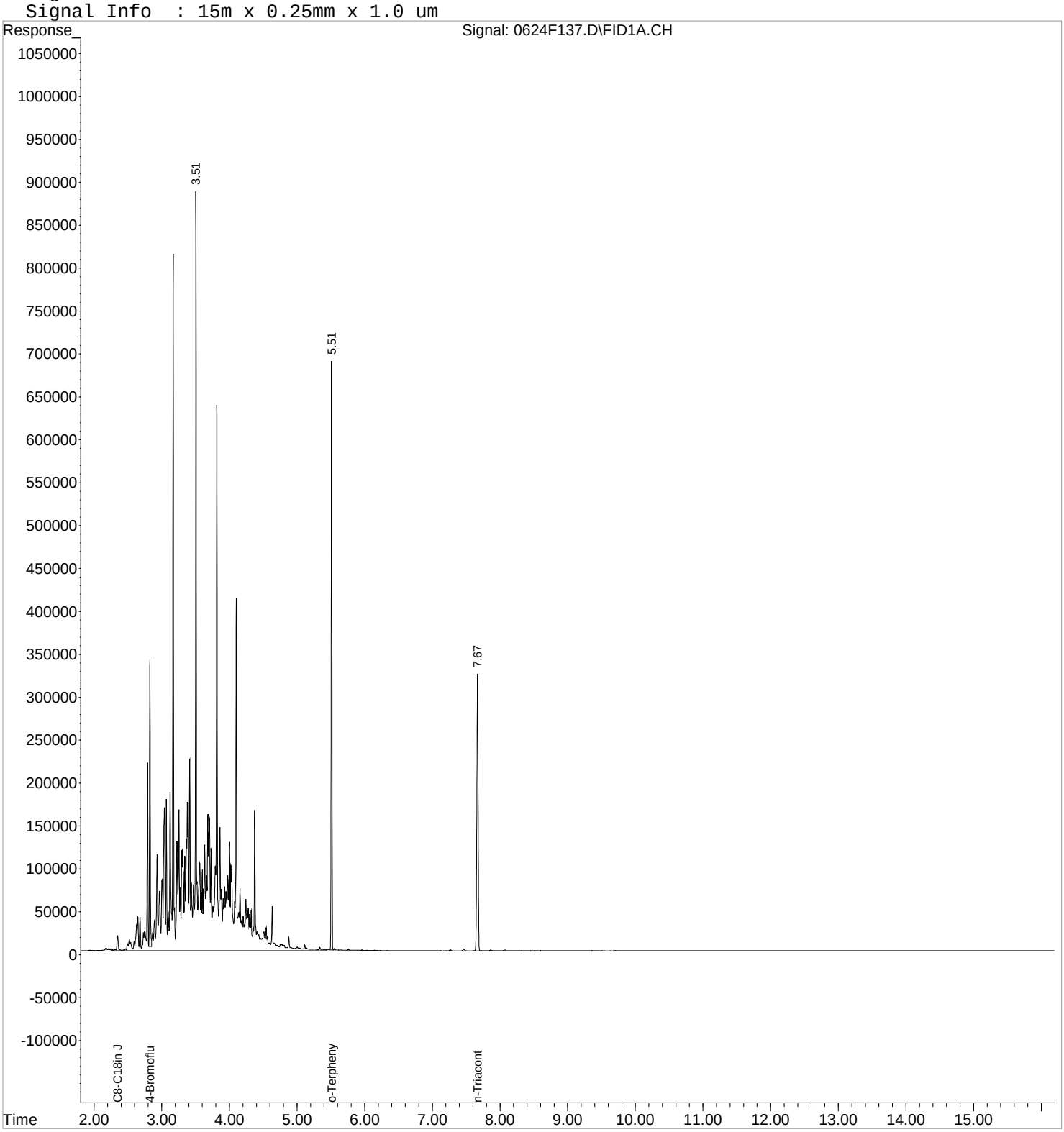
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F137.D Vial: 6
Acq On : 24 Jun 2020 10:57 pm Operator: TAP
Sample : SVF02-89J 5000/250 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:50 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:18 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F138.D Vial: 7
Acq On : 24 Jun 2020 11:19 pm Operator: TAP
Sample : SVF02-89I 20000 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:20 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:20 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
4) H C8-C18in JP-8	2.35	32301588	18304.774 ppm

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

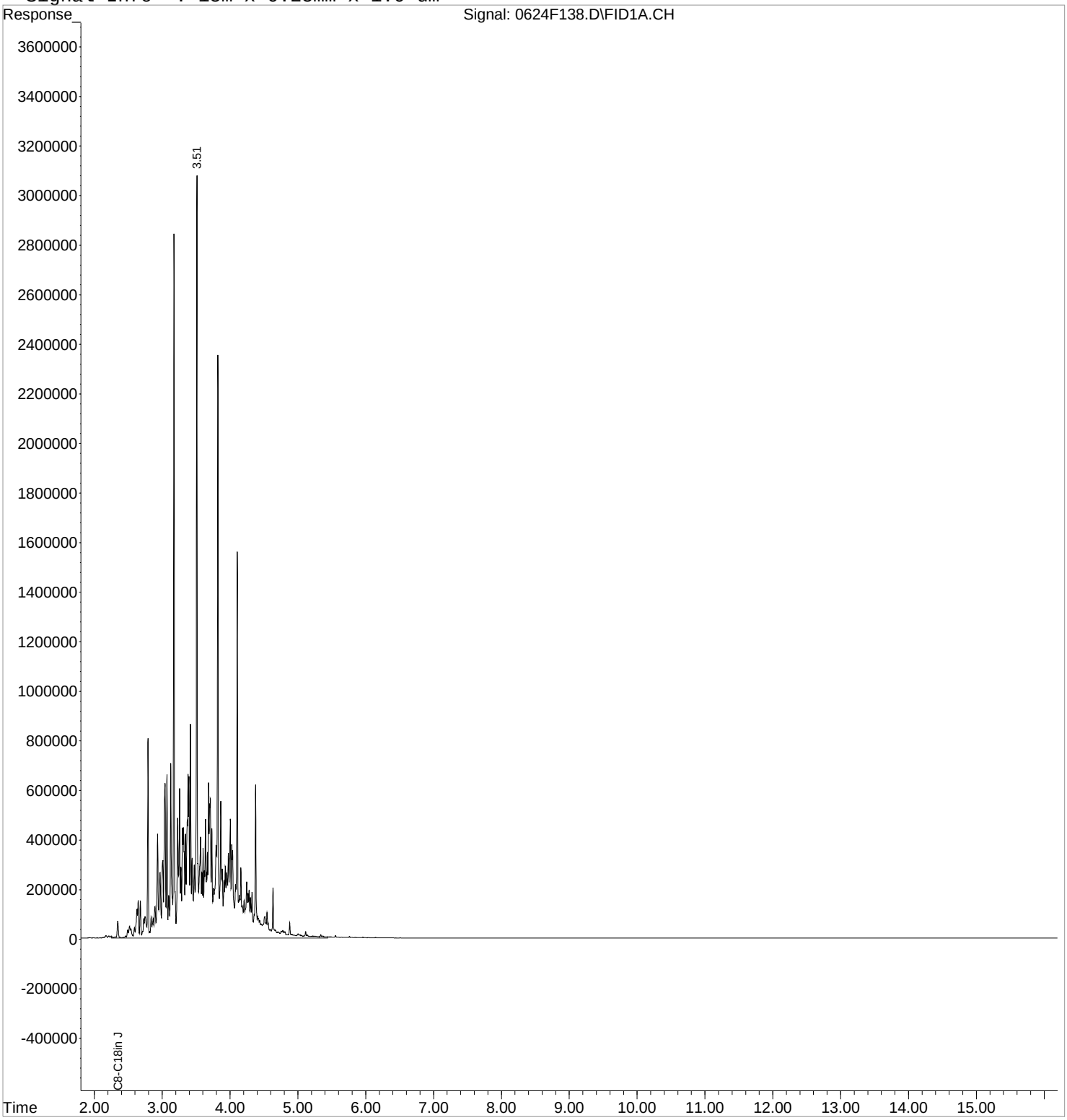
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F138.D Vial: 7
Acq On : 24 Jun 2020 11:19 pm Operator: TAP
Sample : SVF02-89I 20000 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:50 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:20 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F139.D Vial: 8
Acq On : 24 Jun 2020 11:41 pm Operator: TAP
Sample : SVF02-89H 50000 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 06:41:21 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:21 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
4) H C8-C18in JP-8	2.35	76869293	44027.027	ppm

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

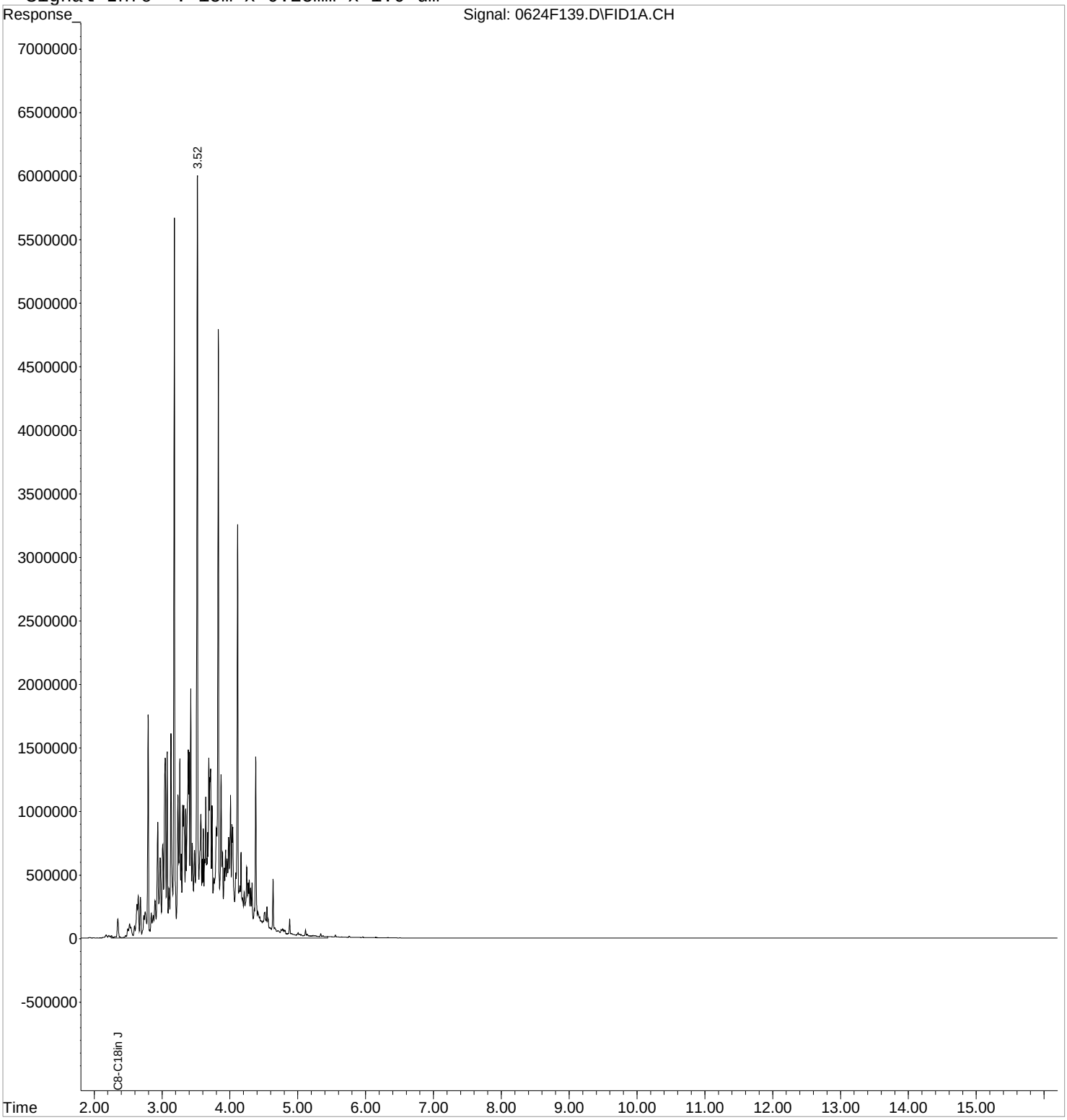
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F139.D Vial: 8
Acq On : 24 Jun 2020 11:41 pm Operator: TAP
Sample : SVF02-89H 50000 Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 6:51 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:41:21 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F142.D Vial: 9
Acq On : 25 Jun 2020 12:49 am Operator: TAP
Sample : SVF02-90E ICV Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 07:11:11 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:54:58 2020
Response via : Initial Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
4) H C8-C18in JP-8	2.35	1565006	858.509 ppm

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

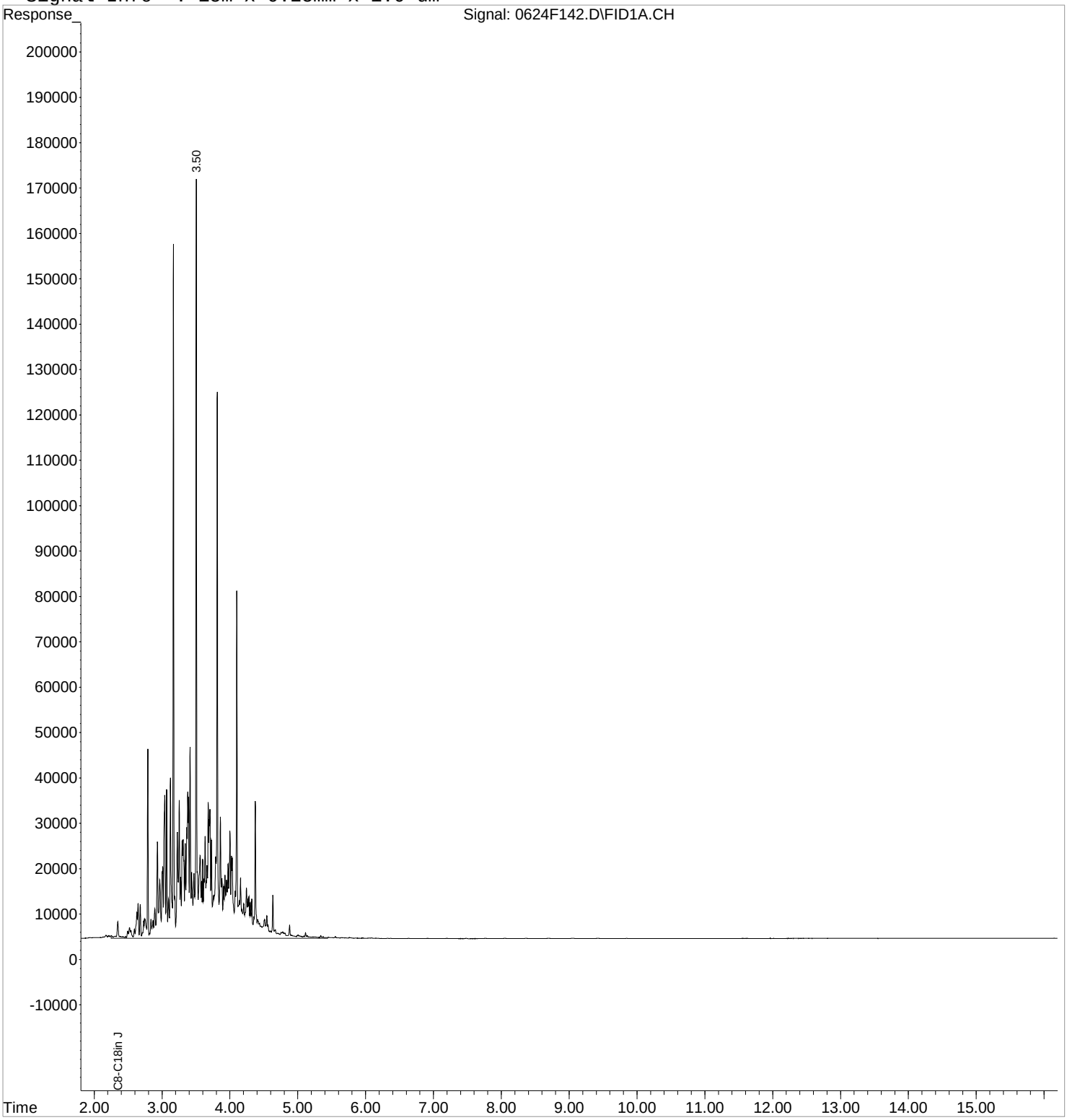
Quantitation Report (QT Reviewed)

1st UA 06/25/20
2nd 06/25/20

Data File : J:\GC21\DATA\062420F\0624F142.D Vial: 9
Acq On : 25 Jun 2020 12:49 am Operator: TAP
Sample : SVF02-90E ICV Inst : GC21
Misc : Multiplr: 1.00
IntFile : rteint.p
Quant Time: Jun 25 7:11 2020 Quant Results File: 062520FJP8.RES

Quant Method : J:\GC21\METHODS\062520FJP8.M (RTE Integrator)
Title : JP-8 by GC/FID CALXXXXX
Last Update : Thu Jun 25 06:54:58 2020
Response via : Single Level Calibration
DataAcq Meth : SVF_FX32.M

Volume Inj. : 1 uL
Signal Phase : ZB-1
Signal Info : 15m x 0.25mm x 1.0 um



Preparation Information

Group ID:	KWG2001792	**Prep Method:**	EPA 3510C	**Prep Date:**	06/24/20 10:50
Department:	Semivoa GC				

25 cc

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K2005164-001	20-06644(360-011)	8015C DRO	WATER	480mL	1ml	
K2005164-002	20-06645(360-001)	8015C DRO	WATER	480mL	1ml	
KWG2001792-1	Matrix Spike	8015C DRO	WATER	485mL	1ml	
KWG2001792-2	Lab Control Sample	8015C DRO	WATER	500mL	1ml	
KWG2001792-3	Duplicate Lab Control Sampl	8015C DRO	WATER	500mL	1ml	
KWG2001792-4	Method Blank	8015C DRO	WATER	500mL	1ml	

Lab Code	Parent Lab Code	Comments
KWG2001792-1	K2005164-001	KQ2008498-01
KWG2001792-2		KQ2008498-02
KWG2001792-3		KQ2008498-03
KWG2001792-4		KQ2008498-04

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K2005164-001	1751776					
K2005164-002	1751777					
KWG2001792-1	1751778					
KWG2001792-2	1751779					
KWG2001792-3	1751780					
KWG2001792-4	1751781					

Comments:

Started By: CWILLIAM Assisted By:

Completed By: WVanderh Assisted By:

Reviewed By: Date: Storage:

Training: Yes / No (No) — Yes / No

Chain of Custody

Relinquished By: Date: 6-25-20

Received By: Date: 6/25/20

Extracts Examined: Yes / No

Preparation Information

Group ID:	KWG2001792	**Prep Method:**	EPA 3510C Hold - 6-25 Due 6-23	**Prep Date:**	06/~~24~~/20 ~~00:00~~ 25 10:50 06/26/20
Department:	Semivoa GC				

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. mL	pH	Int. Vol.	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K2005164-001	20-06644(360-011)	.02	✓	8015C DRO	WATER	480	<2		1	100	—
2	K2005164-002	20-06645(360-001)	.02	✓	8015C DRO	WATER	480	<2		1		—
3	KWG2001792-1	Matrix Spike K2005164-001	.03	✓	8015C DRO	WATER	485	<2		1		1*
4	KWG2001792-2	Lab Control Sample	—		8015C DRO	WATER	500	<2		1		100
5	KWG2001792-3	Duplicate Lab Control Sample	—		8015C DRO	WATER	500	<2		1		1
6	KWG2001792-4	Method Blank	—		8015C DRO	WATER	500	<2		1		—

*JF 06/26/20

Comments: Prep Run 360590

Surrogate ID: SUF02-875 Exp 11-11-20 500 ppm 100µL (SYR)

Spike ID: SUF02-906 Exp 12-25-20 76000 ppm 100µL (SYR)

Witness: BWilland 6-25-20

Started By: CWILLIAM Assisted By: —

Completed By: CW Assisted By: —

ALS Environmental
Extraction Analyst Notes

Service Request: K2005164 Prep Group: KWG2001792

Topic	Notes	Initials/Date
No Anomalies: □		
Sample Anomalies: □		
Organics Present (sticks, leafs, bugs): □		
Fuel Odors: □		
Sulfur Odors, Precipitate: □		
General Notes:		

ALS Environmental
Appendix from EXT-3510
Extracting Fuel Hydrocarbons in Water

Service Request # K2005164 **Work Group #** KWG 2001792

DCM Lot # D4506 HCl Lot # 58242

Extraction Start (time/date/initial): 10:50 6-25-20 CW

Extraction Stop (time/date/initial): 11:32 6-25-20 CW

Sulfate Lot # 2019111895 Glass Wool Lot # 21517999

S-Evap (time/date/initial): 13:00 6-25-20 MS S-Evap Thermometer ID: EXT-001

N-Evap (time/date/initial): 14:59 6-25-20 MS N-Evap Thermometer ID: DKB-012

Sulfuric Acid Clean-up (3665) (time/date/initial): ~ Acid Lot #: ~

Silica Gel Clean-up (3630) (time/date/initial): ~ Silica Gel Lot #: ~

Pipette (5 mL) Lot # 31619647 Pipette (2 mL) Lot # 21119646 Pipette (1 mL) Lot # 11619645

Vial: clear w/ foil cap Vial Storage: Lab

Archived Extract Storage: ~

Bench Sheet Review Check List	
❑	Hold times met; if no, reason:
❑	Prep date, time, method, department, product code correct
❑	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
❑	Weights/Volumes and units correct on raw and final bench sheets
❑	Sample IDs have been checked - bottle numbers appended if required
❑	Names present for: started by, completed by, relinquished by, and witnessed by
❑	Extract storage recorded
❑	Additional prep sheet completely filled out (NA or line out blanks)
❑	All clean-ups have been noted on additional prep sheet

Injection Log

Directory: J:\GC21\DATA\062420F-DRO

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	91	0624f184.d	1.	ALIPHATIC		25 Jun 2020 18:37
2	96	0624f185.d	1.	DRO@1000 SVF02-89D -OK		25 Jun 2020 19:00
3	25	0624f187.d	1.	8015C JP-8@1000 SVF02-88K - not used for DRO analysis		25 Jun 2020 19:22
4	90	0624f188.d	1.	IB		25 Jun 2020 19:45
5	26	0624f189.d	1.	KWG2001792-04MB		25 Jun 2020 20:07
6	27	0624f190.d	1.	KWG2001792-03DLCS *		25 Jun 2020 20:30
7	28	0624f191.d	1.	KWG2001792-02LCS	* Not spiked/evaluated for DRO	25 Jun 2020 20:52
8	29	0624f192.d	1.	K2005164-001		25 Jun 2020 21:15
9	30	0624f193.d	1.	K2005164-002		25 Jun 2020 21:37
10	31	0624f194.d	1.	KWG2001792-01MS *		25 Jun 2020 22:00
11	96	0624f195.d	1.	DRO@1000 SVF02-89D -OK		25 Jun 2020 22:22
12	25	0624f196.d	1.	8015C JP-8@1000 SVF02-88K - not used for DRO analysis		25 Jun 2020 22:45
13	90	0624f197.d	1.	IB		25 Jun 2020 23:07

CAL 16158
KWG2001830
Run 685233 (1 of 2)
06/26/20

Injection Log

Directory: J:\GC21\DATA\062420F-JP8

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	91	0624f184.d	1.	ALIPHATIC		25 Jun 2020 18:37
2	96	0624f185.d	1.	MB-DRO@1000 SVF02-89D	-not used for JP-8 analysis	25 Jun 2020 19:00
3	25	0624f187.d	1.	8015C JP-8@1000 SVF02-88K	-OK	25 Jun 2020 19:22
4	90	0624f188.d	1.	IB		25 Jun 2020 19:45
5	26	0624f189.d	1.	KWG2001792-04MB		25 Jun 2020 20:07
6	27	0624f190.d	1.	KWG2001792-03DLCS		25 Jun 2020 20:30
7	28	0624f191.d	1.	KWG2001792-02LCS		25 Jun 2020 20:52
8	29	0624f192.d	1.	K2005164-001		25 Jun 2020 21:15
9	30	0624f193.d	1.	K2005164-002		25 Jun 2020 21:37
10	31	0624f194.d	1.	KWG2001792-01MS		25 Jun 2020 22:00
11	96	0624f195.d	1.	MB-DRO@1000 SVF02-89D	-not used for JP-8 analysis	25 Jun 2020 22:22
12	25	0624f196.d	1.	8015C JP-8@1000 SVF02-88K	-OK	25 Jun 2020 22:45
13	90	0624f197.d	1.	IB		25 Jun 2020 23:07

OAC16321
KWG2001631
Run 685233 (2 of 2)
Jw 06/26/20