

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037770.D
 Acq On : 5 Oct 2021 12:44
 Operator : SY/AP
 Sample : M4012-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P23

Manual Integrations
 APPROVED

MMDadoda
 10/11/2021 7:35:59 PM

Quant Time: Oct 06 05:41:37 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1390710	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3928056	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3449701	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2385068	9.89	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	32870	0.148	ppbv	93
3) Chlorodifluoromethane	2.98	51	26601	0.100	ppbv #	81
9) Propene	3.02	41	35266m	0.359	ppbv	
13) Ethanol	3.60	45	2446855	304.307	ppbv	80
15) Acetone	3.84	43	1010437	8.094	ppbv	99
19) Isopropyl Alcohol	3.97	45	449425	5.786	ppbv #	95
20) Methylene Chloride	4.33	84	1802457	28.574	ppbv	98
26) Hexane	5.67	57	718554	4.165	ppbv #	45
34) 2-Butanone	5.23	43	24705m	0.156	ppbv	
53) Toluene	9.79	91	47163m	0.127	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

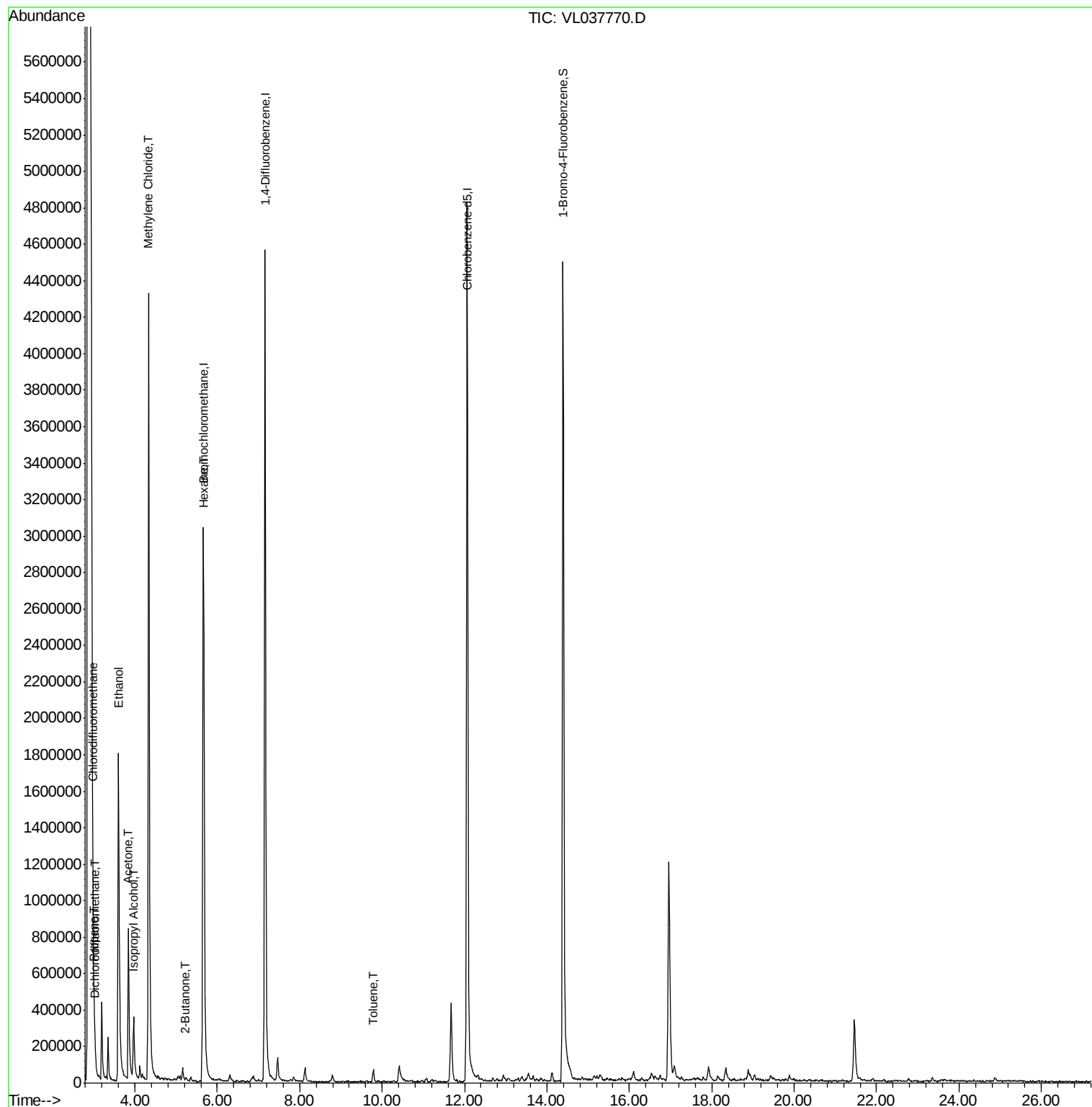
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037770.D
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Misc : 400mL/MSVOA_L
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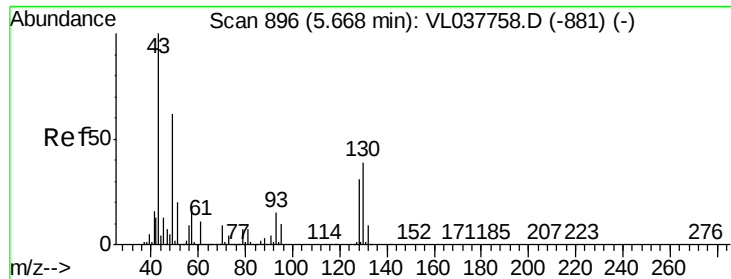
Instrument :
MSVOA_L
ClientSampleId :
C0P23

Manual Integrations
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10/11/2021 7:35:59 PM

Quant Time: Oct 06 05:41:37 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampled :

C0P23

Tgt Ion: 49 Resp: 1390710

Ion Ratio Lower Upper

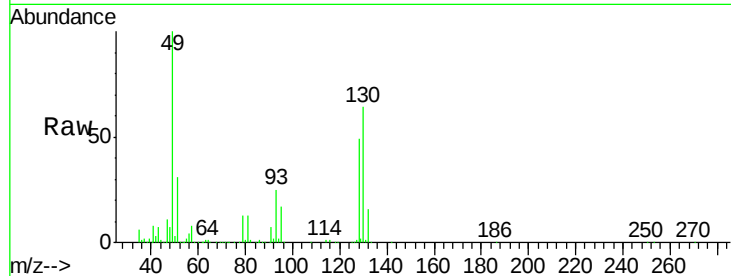
49 100

128 52.8 27.1 81.3

130 67.8 33.2 99.6

Manual Integrations
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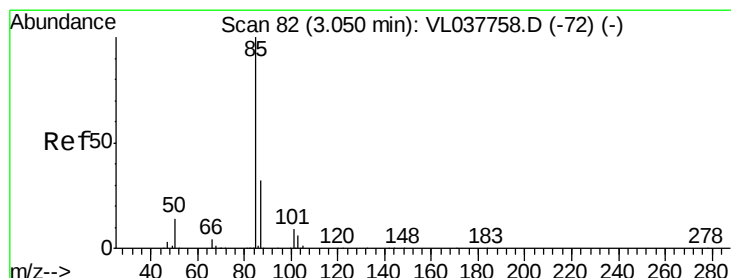
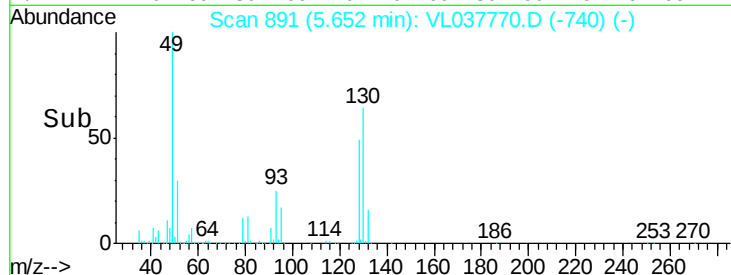
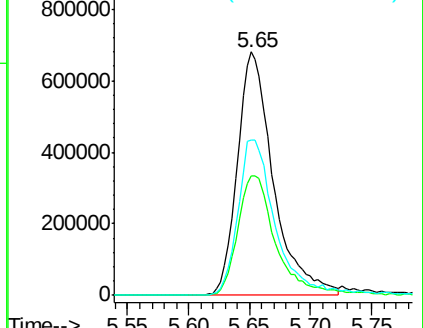
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.148 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037770.D

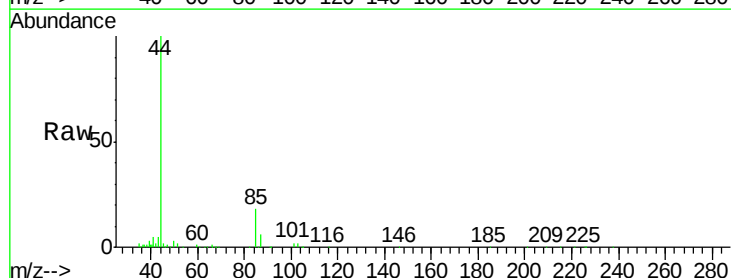
Acq: 5 Oct 2021 12:44

Tgt Ion: 85 Resp: 32870

Ion Ratio Lower Upper

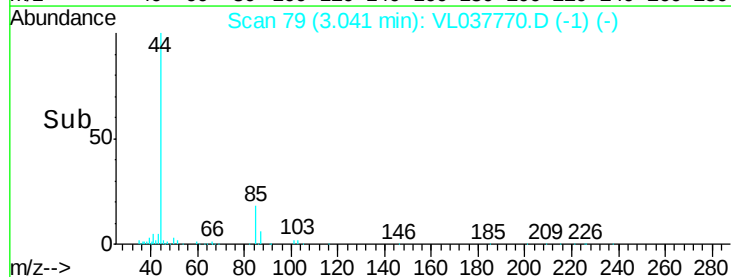
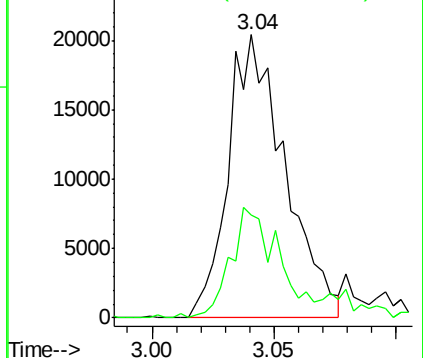
85 100

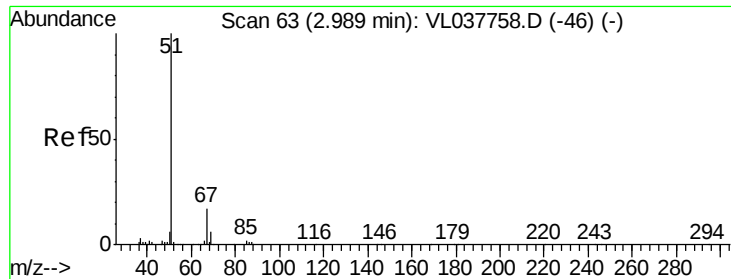
87 36.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.100 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

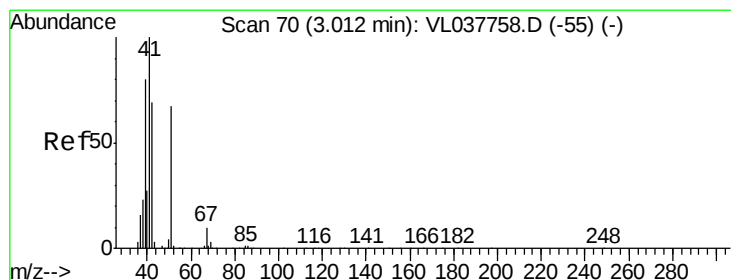
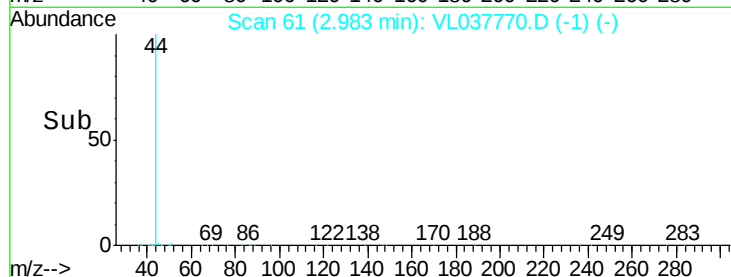
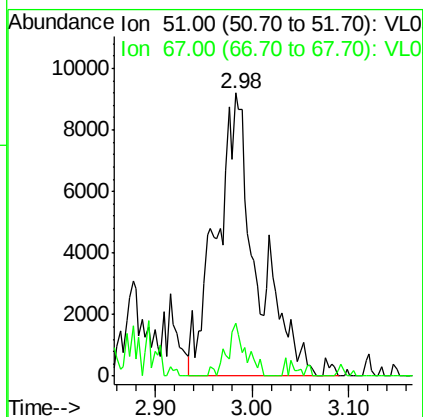
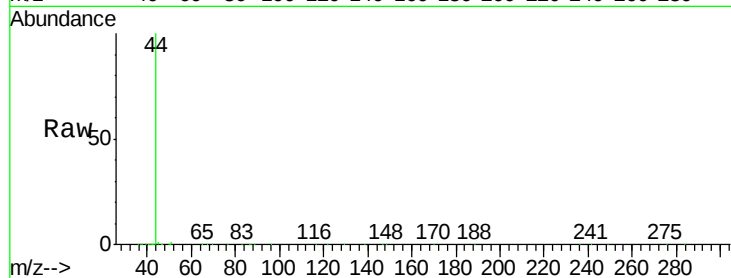
ClientSampleId :

C0P23

Tgt Ion: 51 Resp: 26601
 Ion Ratio Lower Upper
 51 100
 67 8.7 13.5 20.3#

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#9

Propene

Concen: 0.359 ppbv m

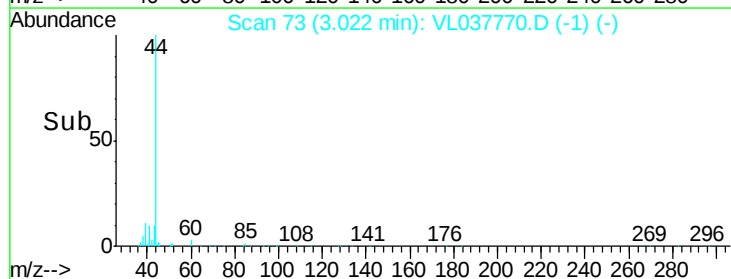
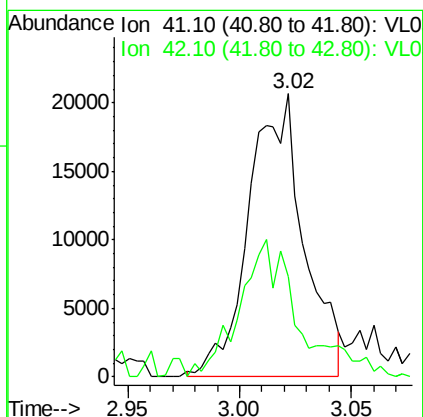
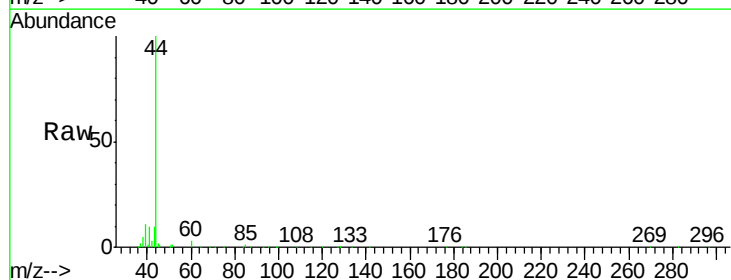
RT: 3.02 min Scan# 73

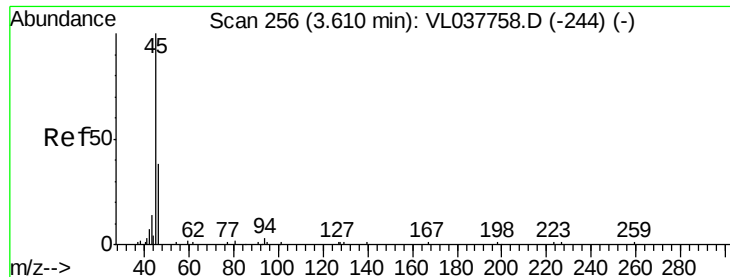
Delta R.T. 0.01 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Tgt Ion: 41 Resp: 35266
 Ion Ratio Lower Upper
 41 100
 42 53.9 54.2 81.2#





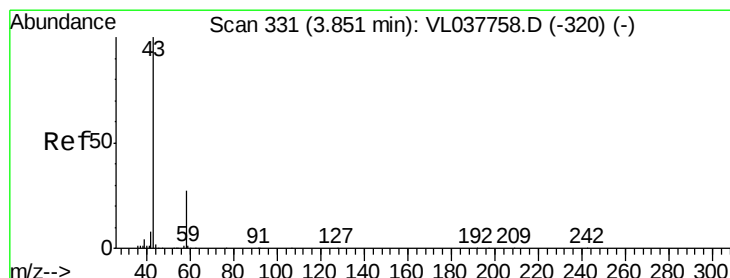
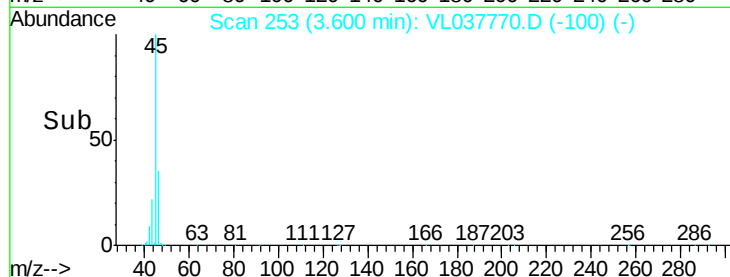
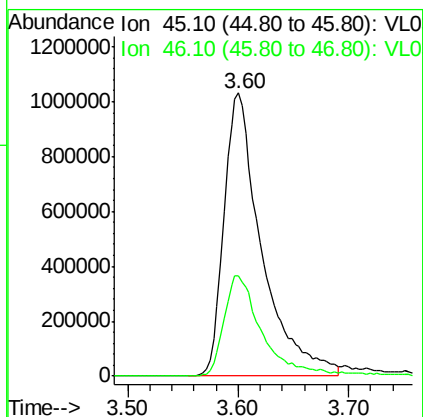
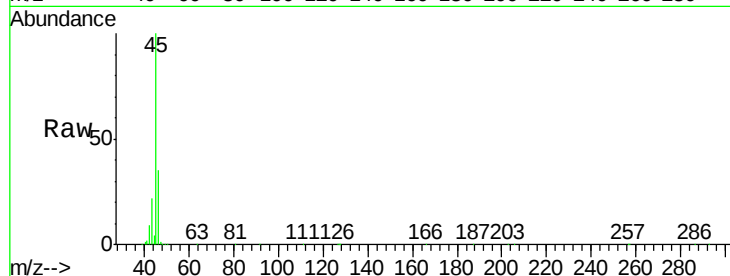
#13
Ethanol
Concen: 304.307 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL037770.D
Acq: 5 Oct 2021 12:44

Instrument :
MSVOA_L
ClientSampleId :
C0P23

Tgt Ion: 45 Resp: 2446855
Ion Ratio Lower Upper
45 100
46 36.9 20.2 81.0

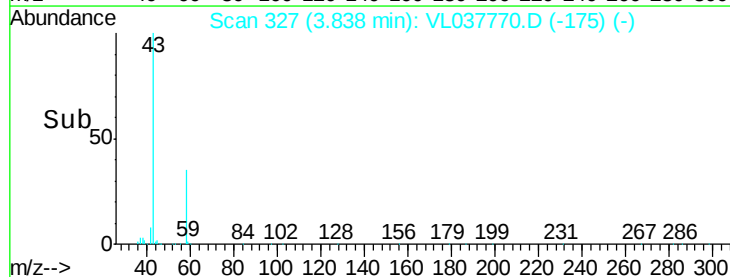
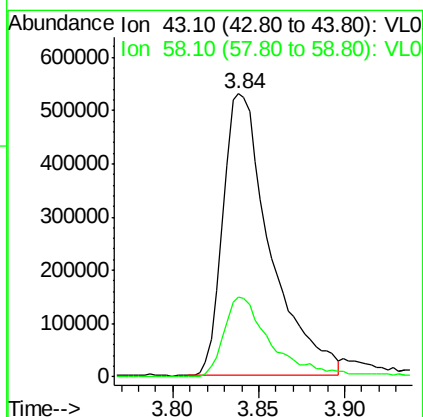
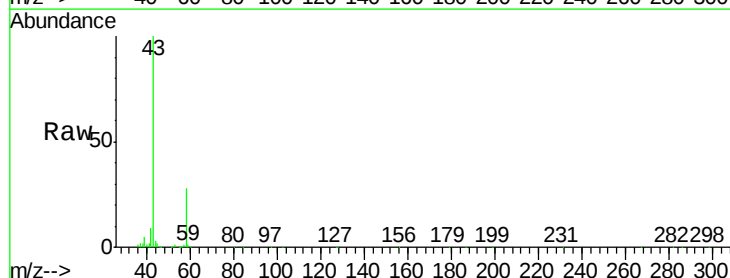
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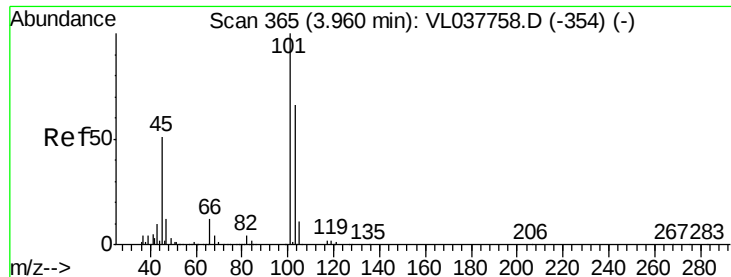
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#15
Acetone
Concen: 8.094 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL037770.D
Acq: 5 Oct 2021 12:44

Tgt Ion: 43 Resp: 1010437
Ion Ratio Lower Upper
43 100
58 29.2 23.0 34.6





#19

Isopropyl Alcohol

Concen: 5.786 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

C0P23

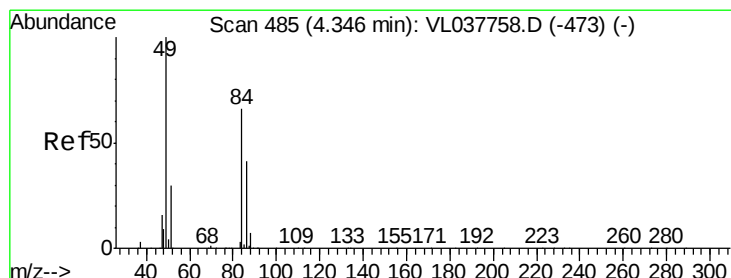
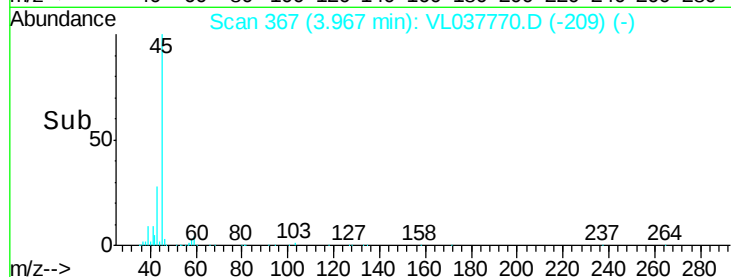
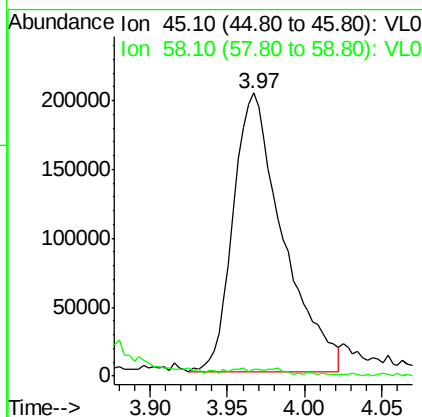
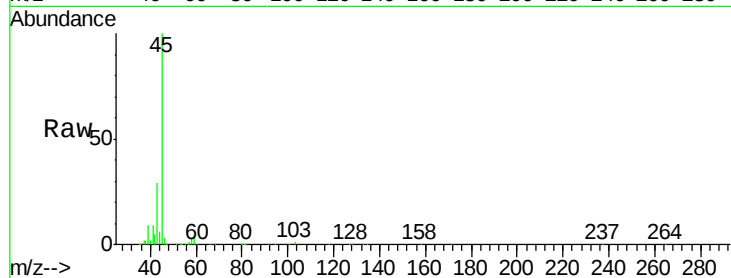
Tgt Ion: 45 Resp: 449425
Ion Ratio Lower Upper

45 100

58 3.4 1.1 1.7#

Manual Integrations
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#20

Methylene Chloride

Concen: 28.574 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

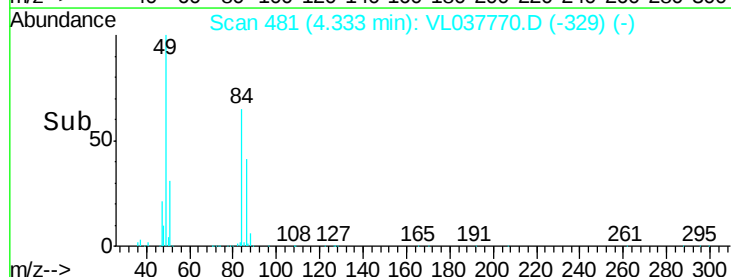
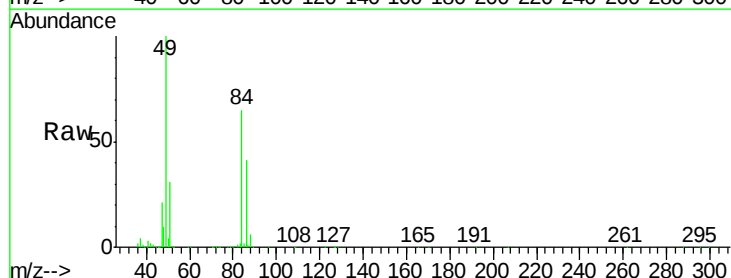
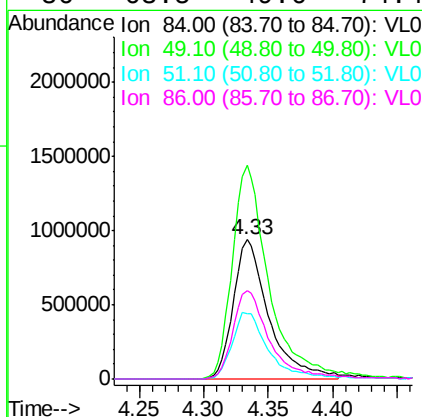
Tgt Ion: 84 Resp: 1802457
Ion Ratio Lower Upper

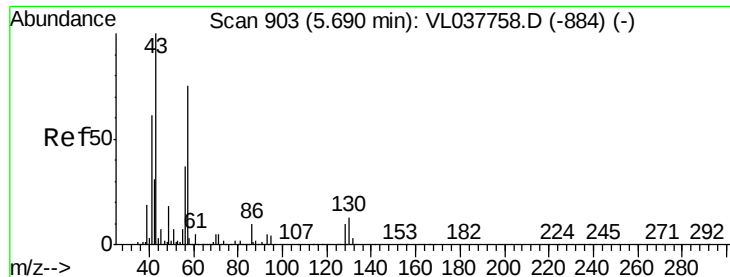
84 100

49 153.1 120.7 181.1

51 46.8 36.2 54.4

86 63.5 49.6 74.4





#26

Hexane

Concen: 4.165 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

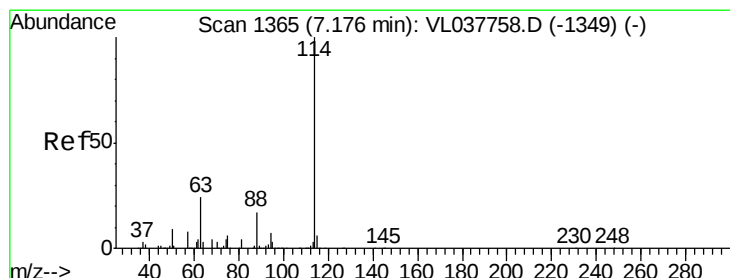
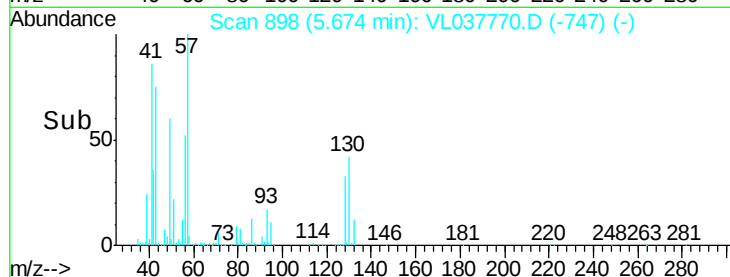
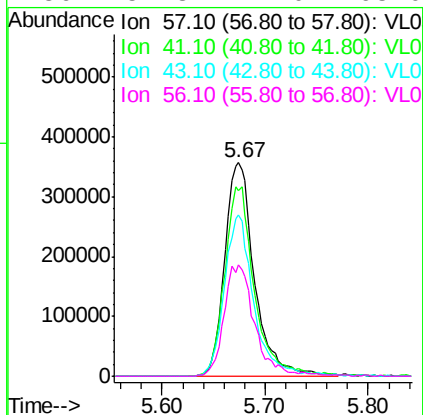
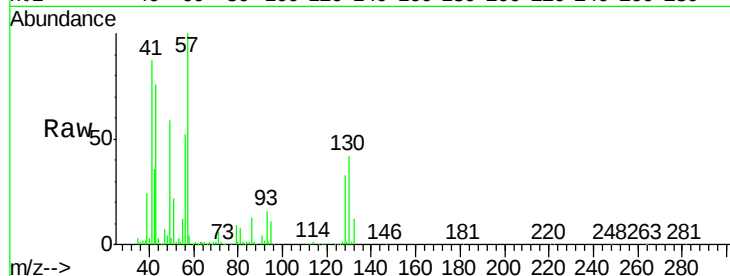
ClientSampled :

C0P23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.9	69.6	104.4
43	74.6	171.4	257.0#
56	54.3	42.0	63.0

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

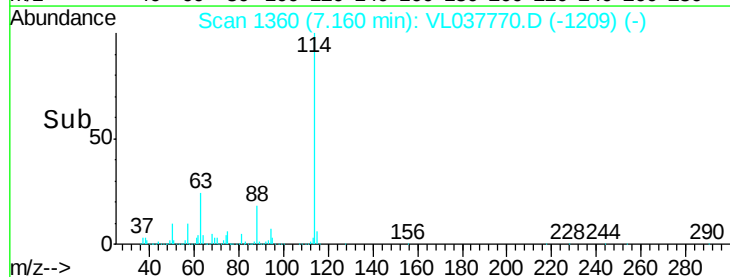
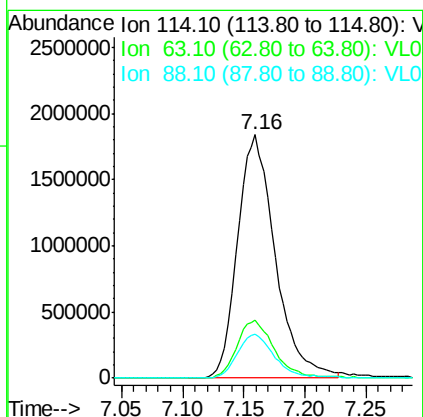
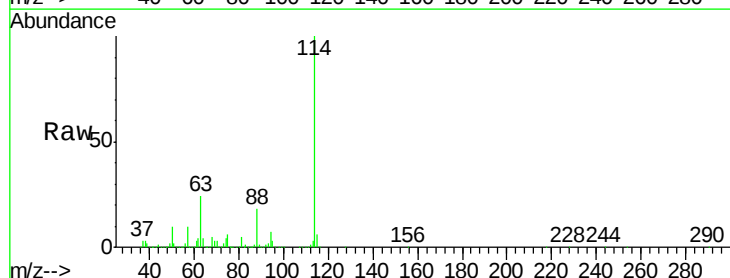
RT: 7.16 min Scan# 1360

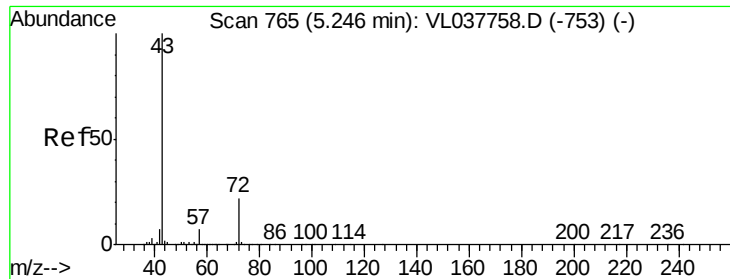
Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.4	29.2
88	18.2	14.4	21.6





#34

2-Butanone

Concen: 0.156 ppbv m

RT: 5.23 min Scan# 759

Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

C0P23

Tgt Ion: 43 Resp: 24705

Ion Ratio Lower Upper

43 100

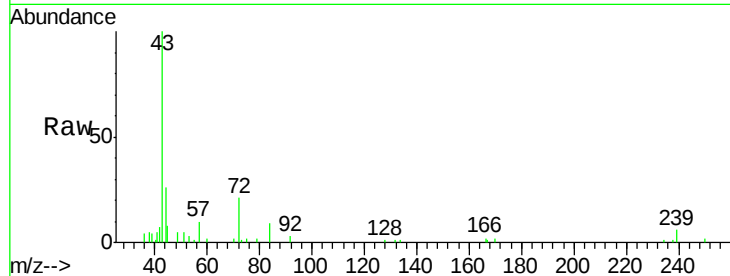
72 31.9 18.2 27.2#

Manual Integrations

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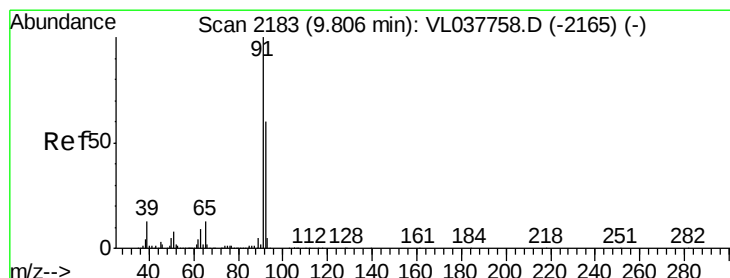
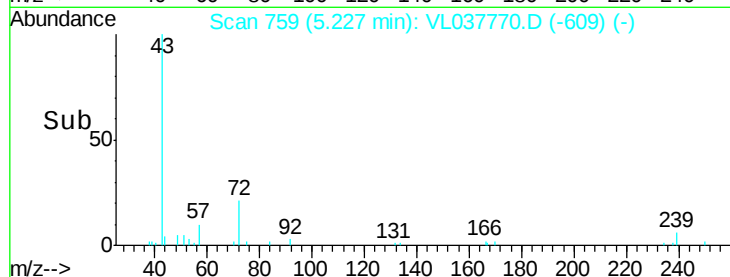
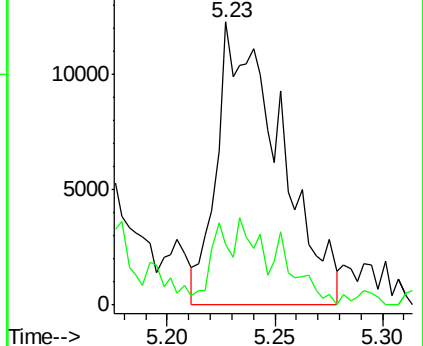
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#53

Toluene

Concen: 0.127 ppbv m

RT: 9.79 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL037770.D

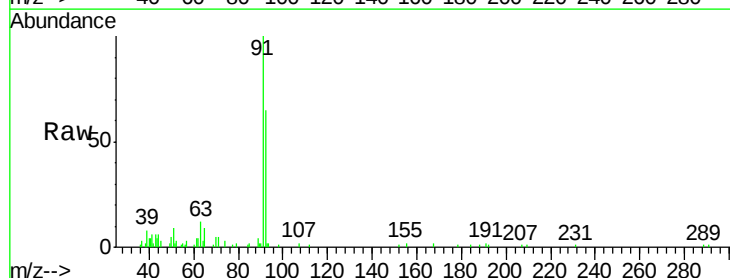
Acq: 5 Oct 2021 12:44

Tgt Ion: 91 Resp: 47163

Ion Ratio Lower Upper

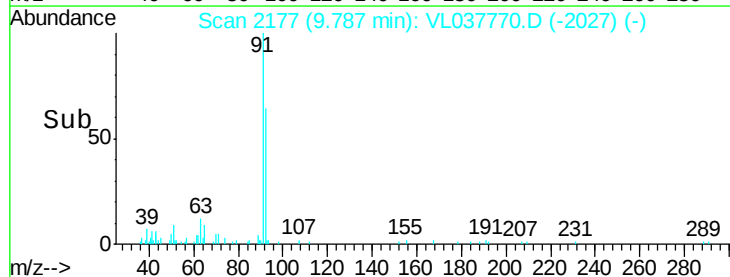
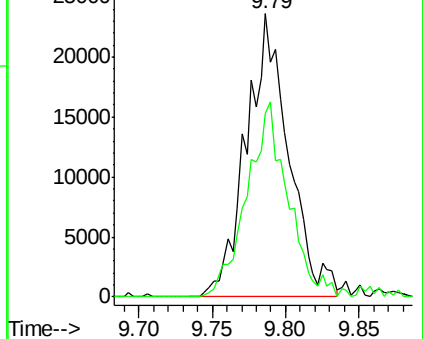
91 100

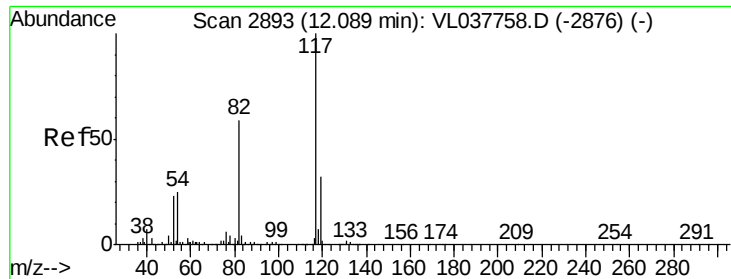
92 67.0 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

C0P23

Tgt Ion: 117 Resp: 3449701

Ion Ratio Lower Upper

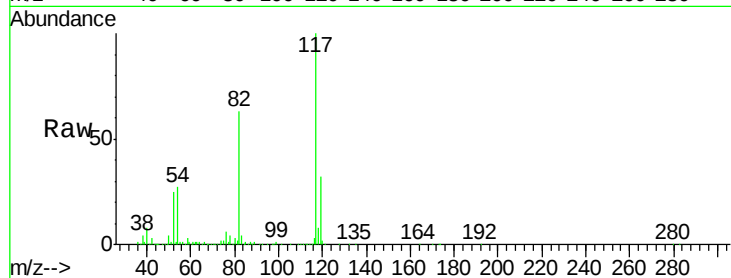
117 100

82 63.7 52.2 78.2

119 33.6 26.0 39.0

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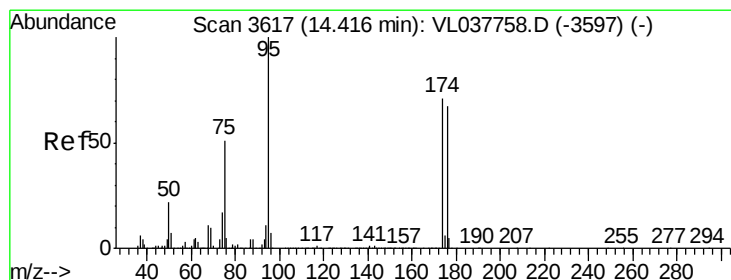
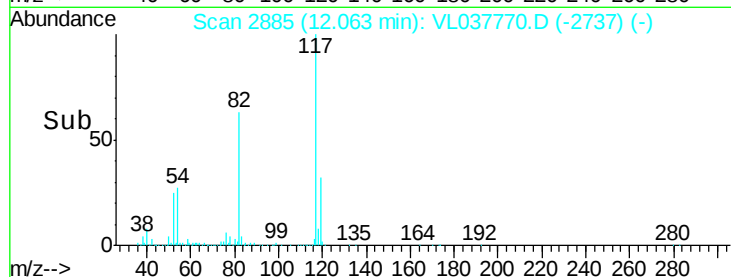
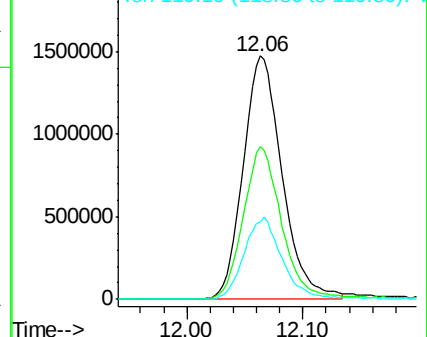
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.887 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.03 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

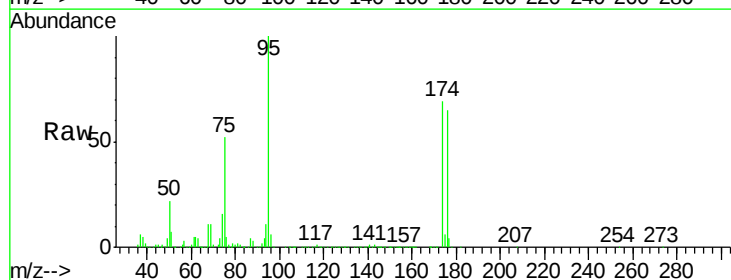
Tgt Ion: 95 Resp: 2385068

Ion Ratio Lower Upper

95 100

174 74.1 57.8 86.6

175 5.6 4.7 7.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

