

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037081.D
 Acq On : 1 Jun 2021 22:16
 Operator : SY/AP
 Sample : M2548-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 03:03:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1448347	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4362980	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3905374	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2893344	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

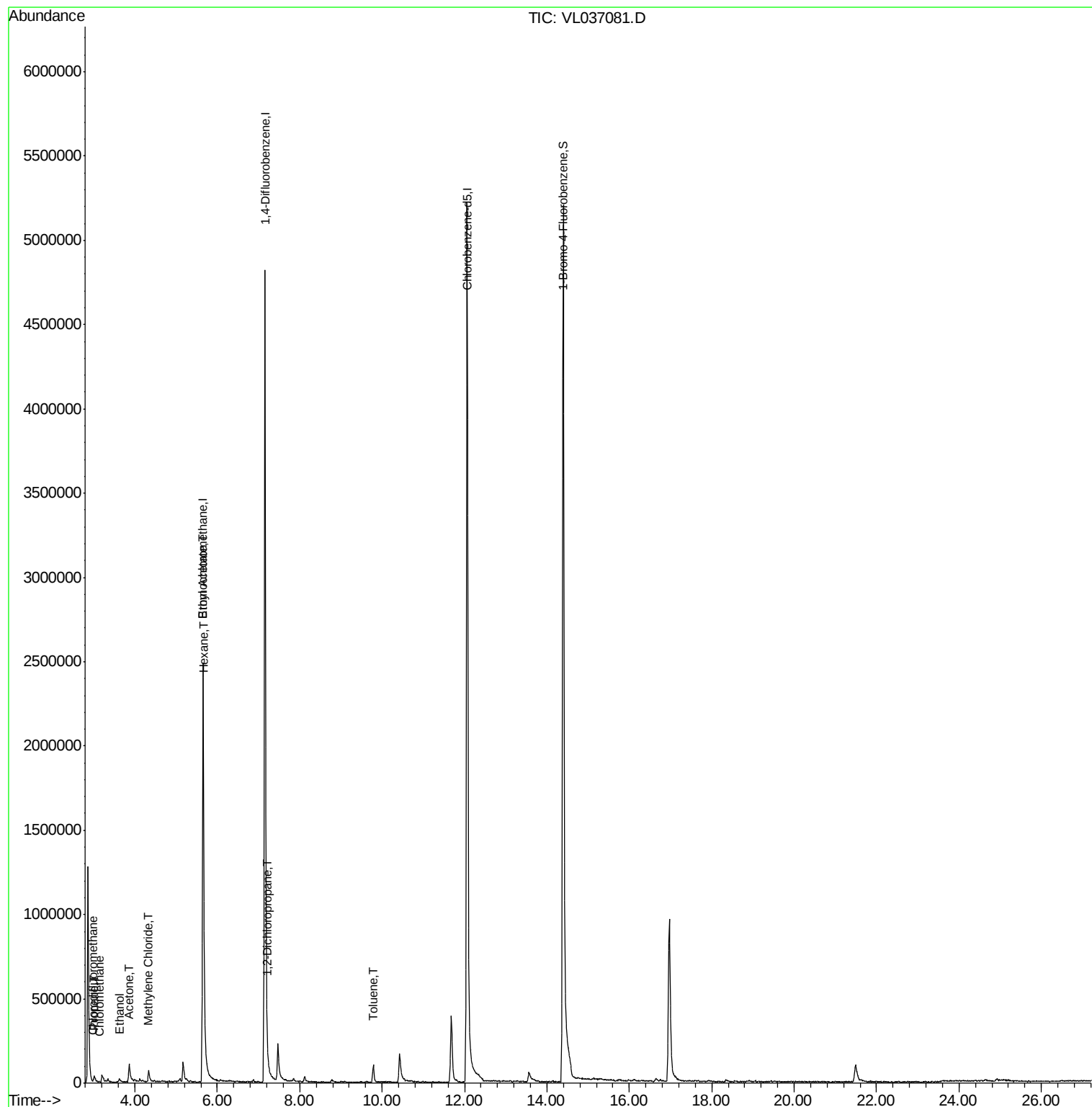
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.98	51	9861	0.037 ppbv	95
4) Chloromethane	3.13	50	3132	0.035 ppbv #	84
9) Propene	3.01	41	12182	0.128 ppbv	86
13) Ethanol	3.62	45	11467	0.905 ppbv #	35
15) Acetone	3.86	43	117117	0.789 ppbv #	47
20) Methylene Chloride	4.33	84	24419	0.307 ppbv	87
25) Ethyl Acetate	5.66	43	12881	0.036 ppbv #	85
26) Hexane	5.67	57	27560	0.151 ppbv #	36
39) 1,2-Dichloropropane	7.21	63	10941	0.076 ppbv #	27
53) Toluene	9.79	91	82272	0.184 ppbv	95

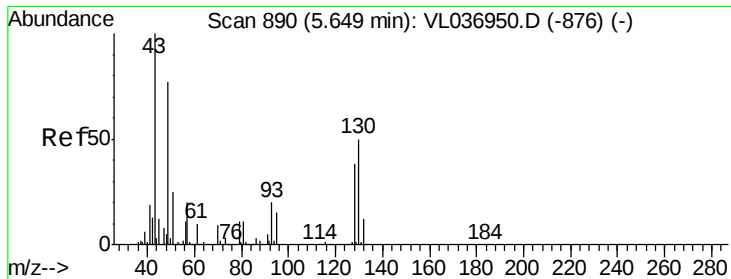
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037081.D

Acq: 1 Jun 2021 22:16

Instrument :

MSVOA_L

ClientSampleId :

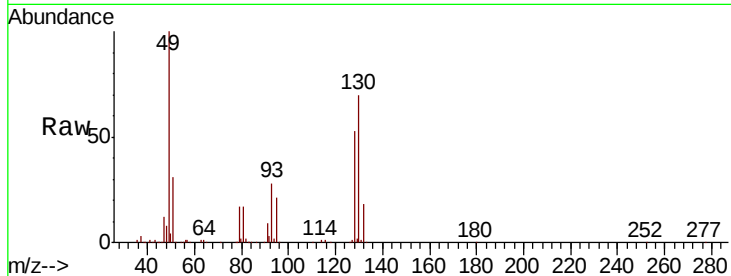
Tot Ion: 49 Resp: 1448347

Ion Ratio Lower Upper

49 100

128 56.8 26.9 80.7

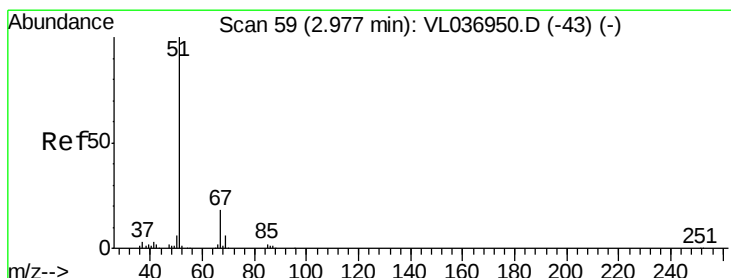
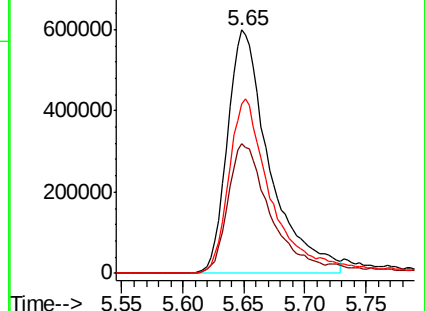
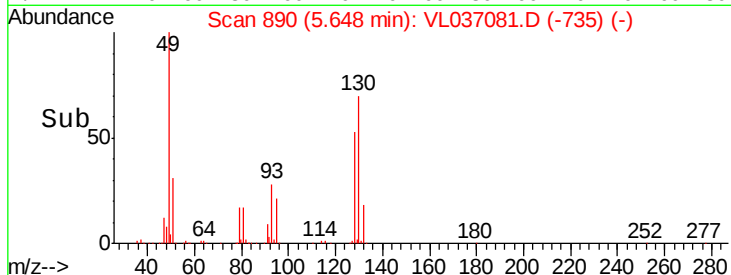
130 74.1 33.8 101.4



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



#3

Chlorodifluoromethane

Concen: 0.037 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037081.D

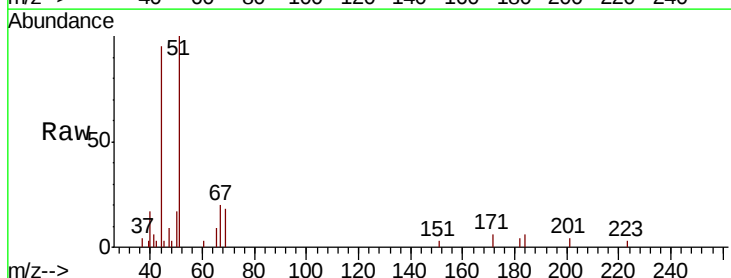
Acq: 1 Jun 2021 22:16

Tgt Ion: 51 Resp: 9861

Ion Ratio Lower Upper

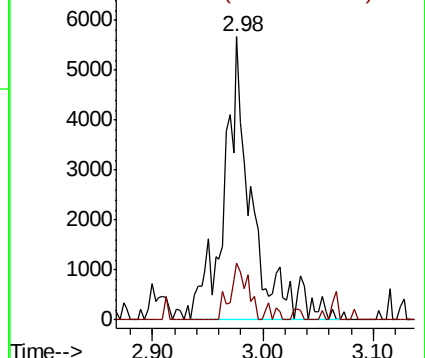
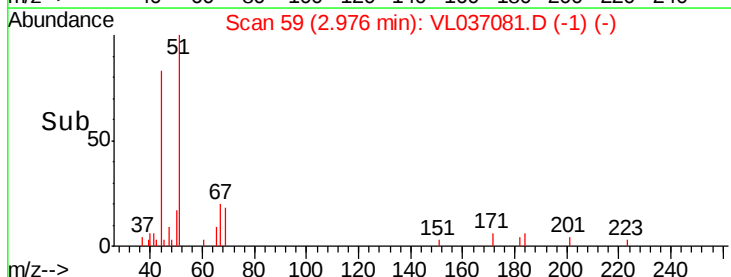
51 100

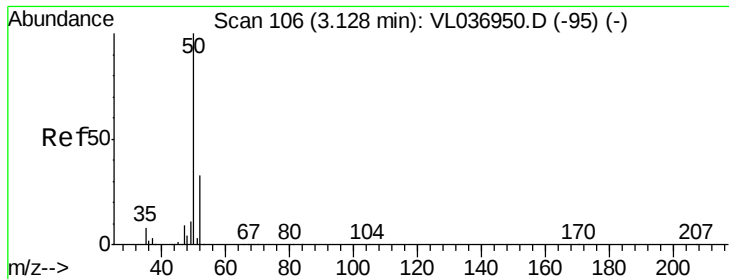
67 15.9 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037081.D

Acq: 1 Jun 2021 22:16

Instrument :

MSVOA_L

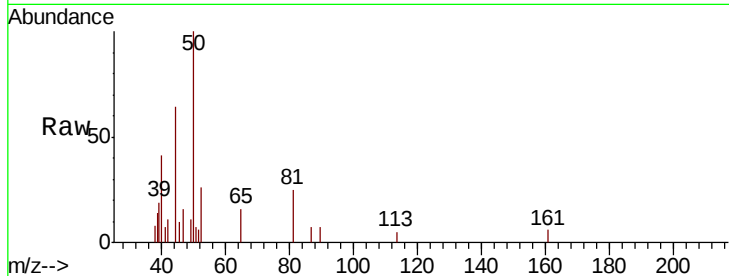
ClientSampleId :

Tot Ion: 50 Resp: 3132

Ion Ratio Lower Upper

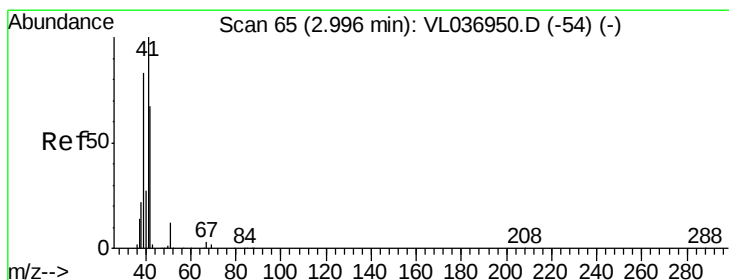
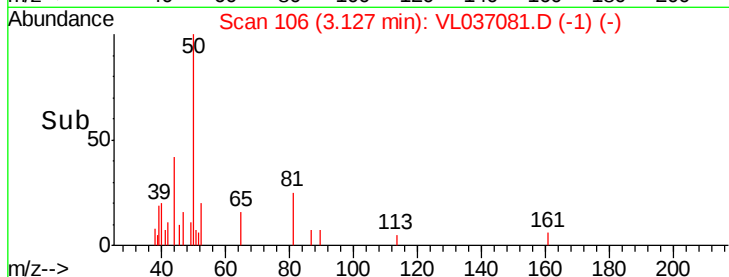
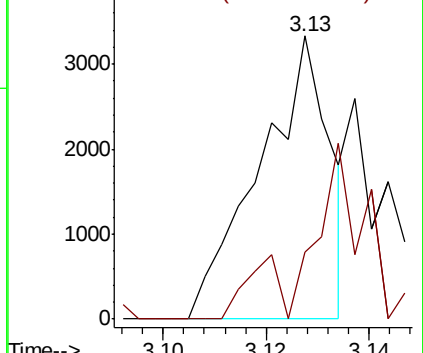
50 100

52 23.8 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.128 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037081.D

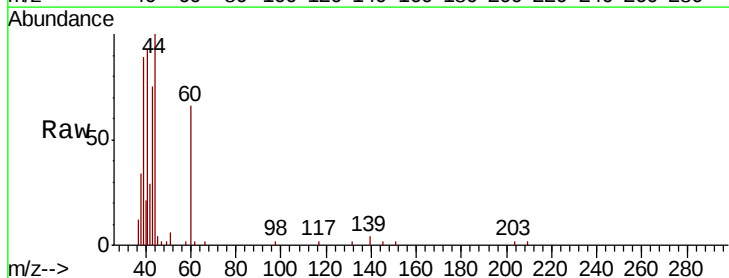
Acq: 1 Jun 2021 22:16

Tgt Ion: 41 Resp: 12182

Ion Ratio Lower Upper

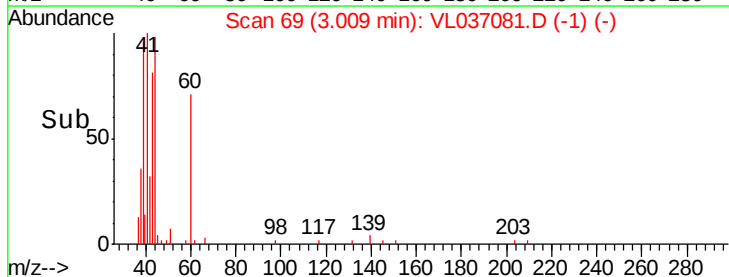
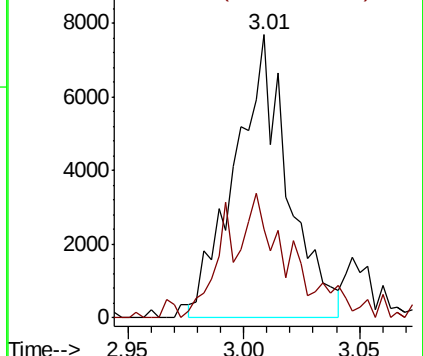
41 100

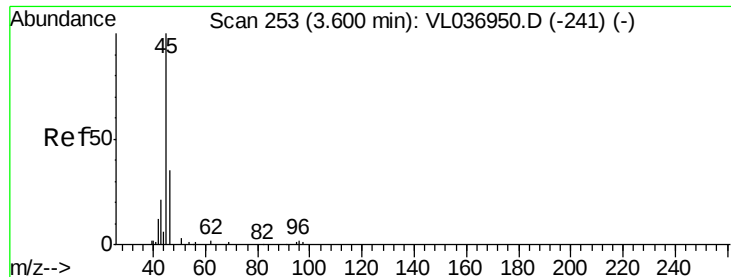
42 56.5 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.905 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL037081.D

Acq: 1 Jun 2021 22:16

Instrument :

MSVOA_L

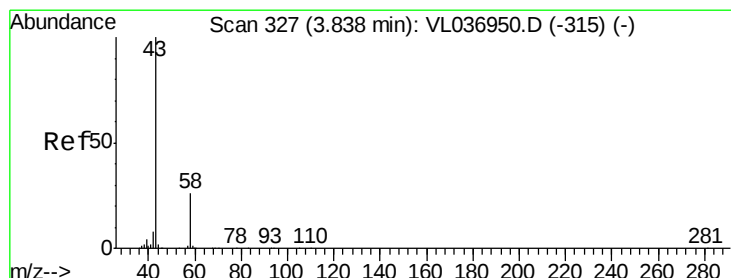
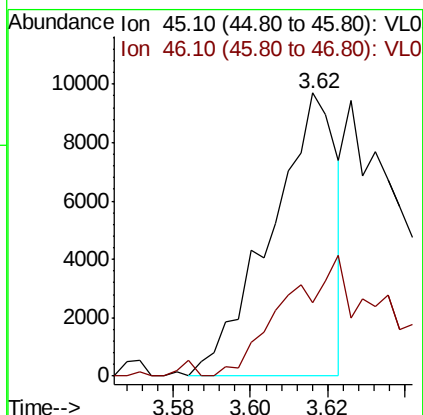
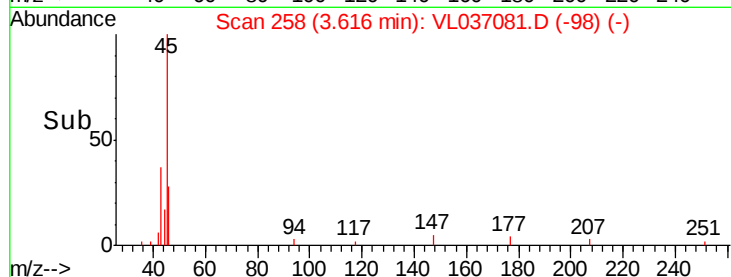
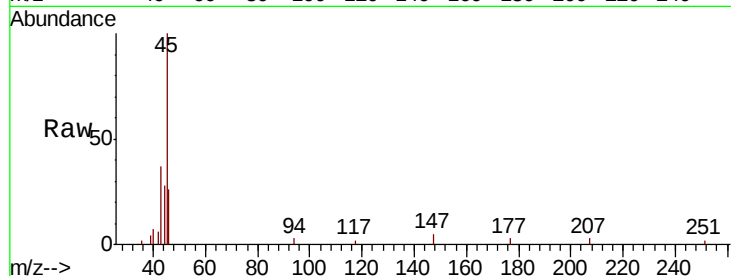
ClientSampleId :

Tot Ion: 45 Resp: 11467

Ion Ratio Lower Upper

45 100

46 0.0 16.3 65.3#



#15

Acetone

Concen: 0.789 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL037081.D

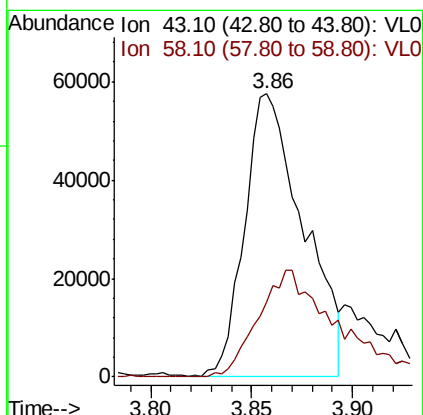
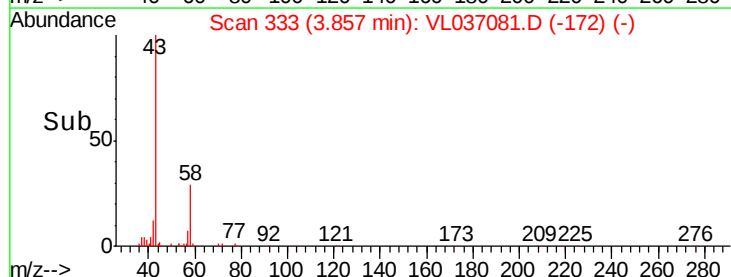
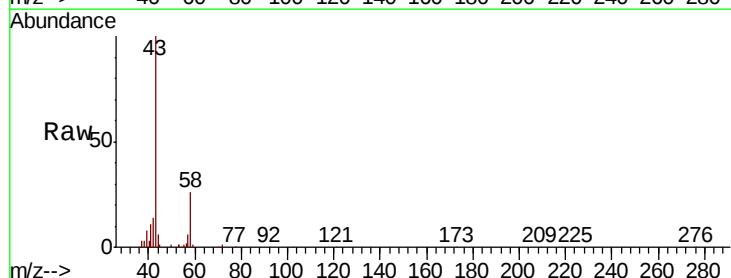
Acq: 1 Jun 2021 22:16

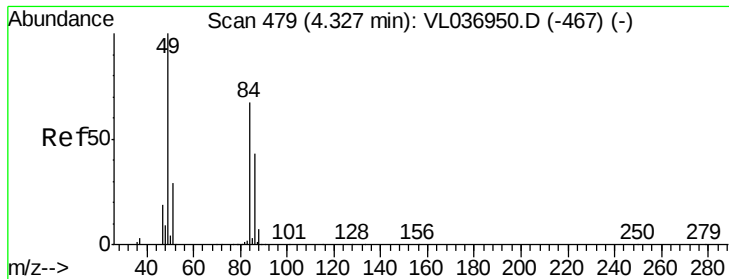
Tgt Ion: 43 Resp: 117117

Ion Ratio Lower Upper

43 100

58 58.8 24.0 36.0#

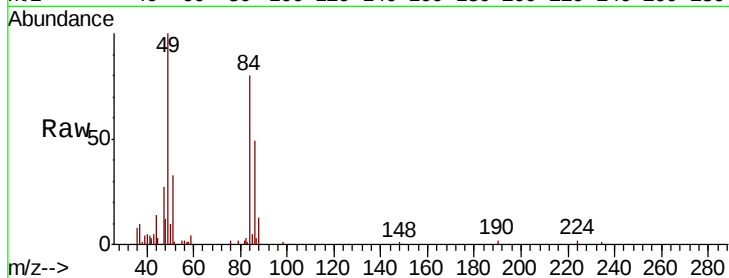




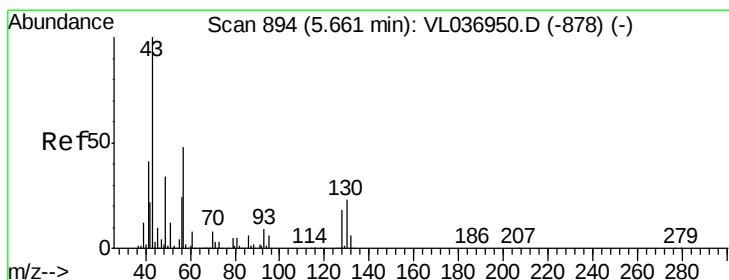
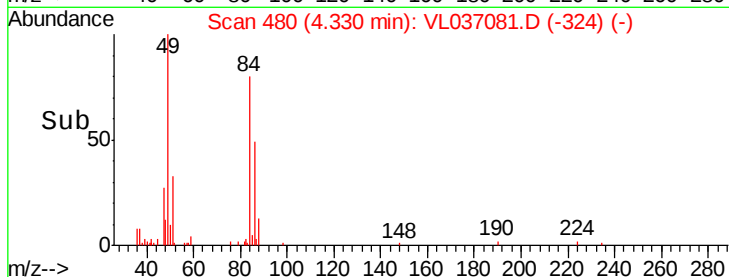
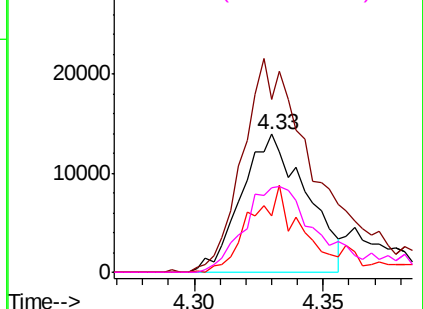
#20
Methvlene Chloride
Concen: 0.307 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037081.D
Acq: 1 Jun 2021 22:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	24419
Ion	Ratio	Lower	Upper
84	100		
49	124.1	119.8	179.6
51	42.7	35.1	52.7
86	61.4	50.9	76.3

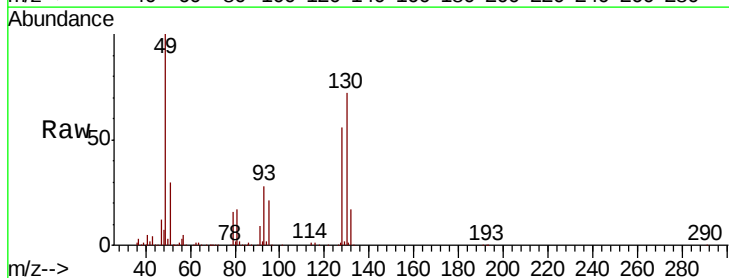


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

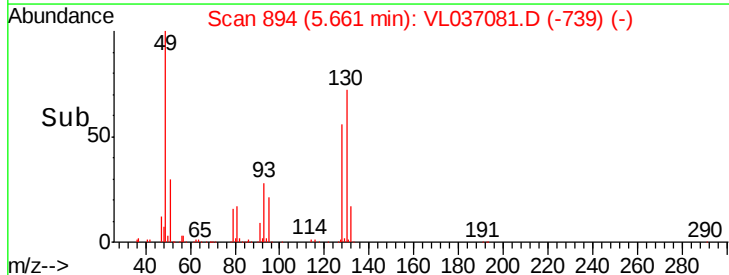
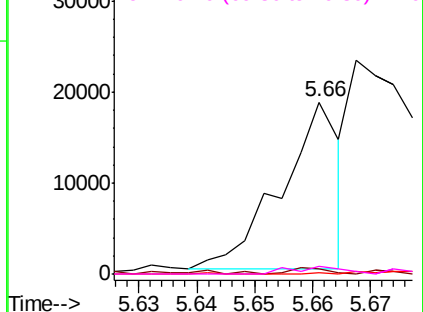


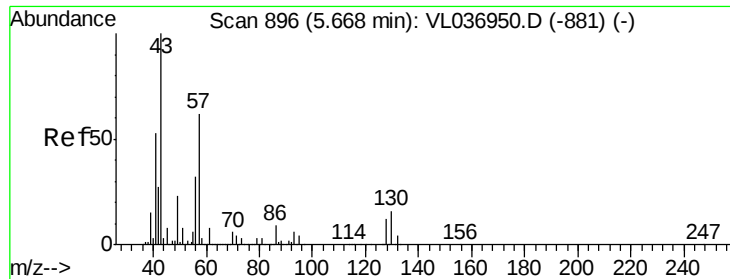
#25
Ethyl Acetate
Concen: 0.036 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL037081.D
Acq: 1 Jun 2021 22:16

Tgt Ion:	43	Resp:	12881
Ion	Ratio	Lower	Upper
43	100		
45	6.5	7.8	11.8#
61	0.0	7.8	11.8#
70	4.0	5.6	8.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

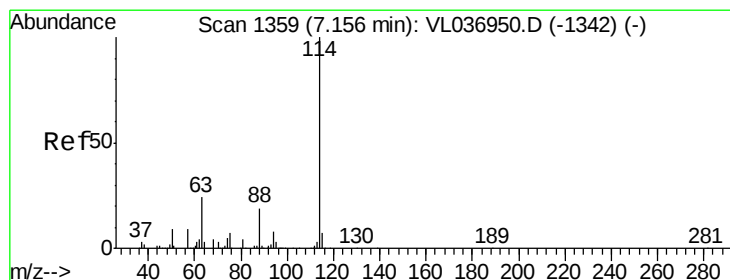
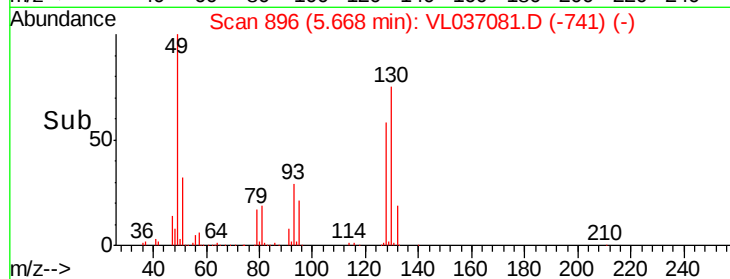
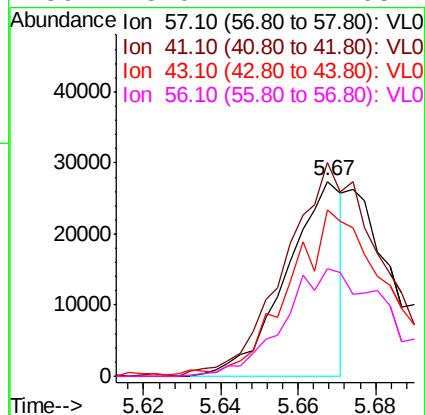
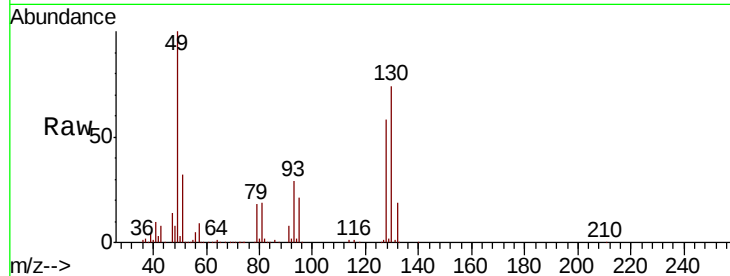




#26
Hexane
Concen: 0.151 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL037081.D
Acq: 1 Jun 2021 22:16

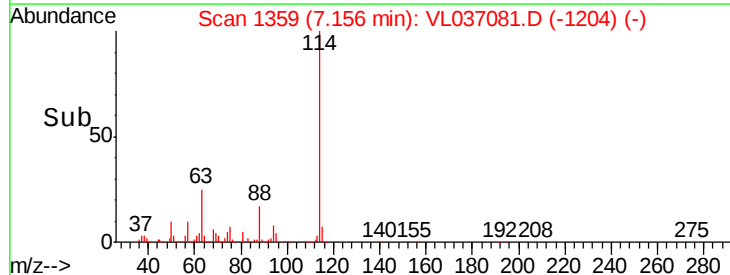
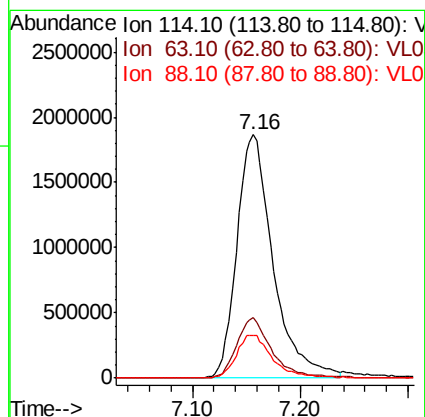
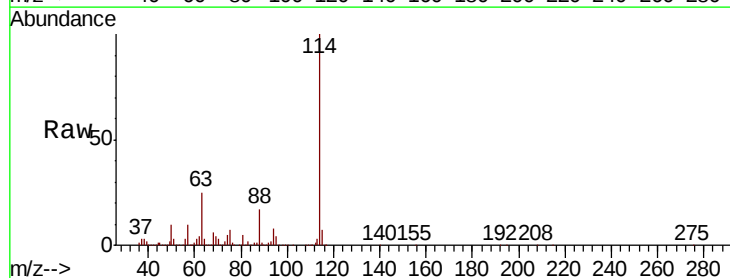
Instrument :
MSVOA_L
ClientSampled :

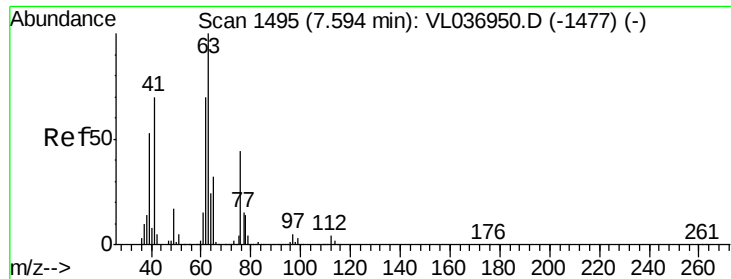
Tot Ion: 57 Resp: 27560
Ion Ratio Lower Upper
57 100
41 214.6 70.5 105.7#
43 164.0 165.8 248.8#
56 113.0 42.2 63.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037081.D
Acq: 1 Jun 2021 22:16

Tgt Ion:114 Resp: 4362980
Ion Ratio Lower Upper
114 100
63 24.6 19.6 29.4
88 18.1 14.6 21.8

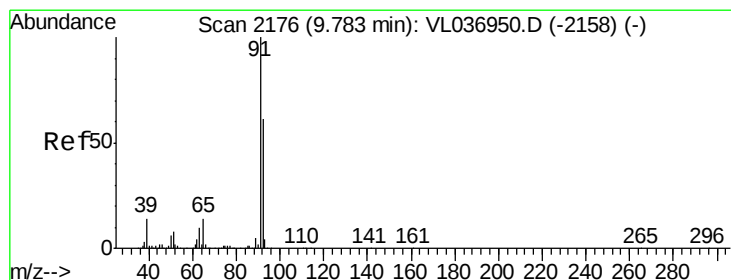
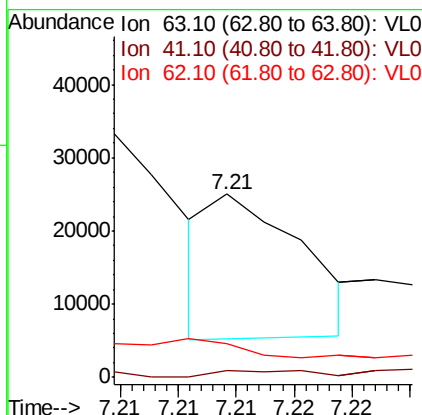
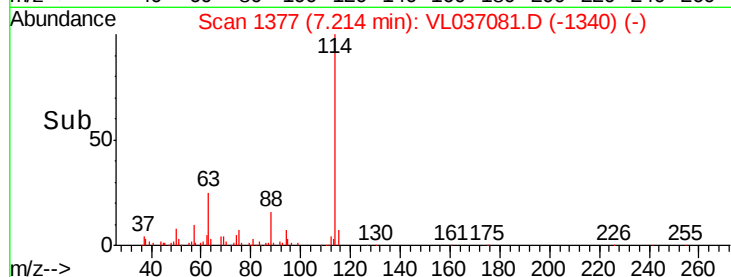
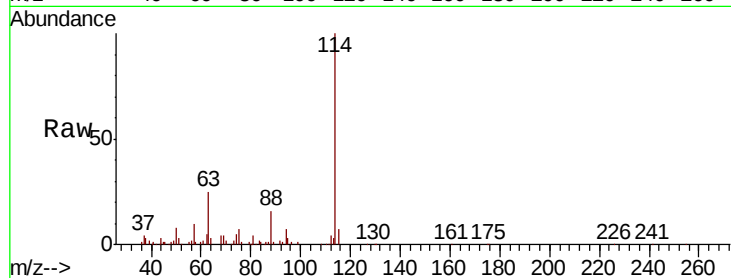




#39
 1,2-Dichloropropane
 Concen: 0.076 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.38 min
 Lab File: VL037081.D
 Acq: 1 Jun 2021 22:16

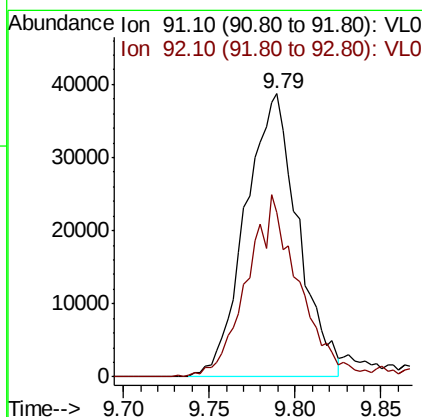
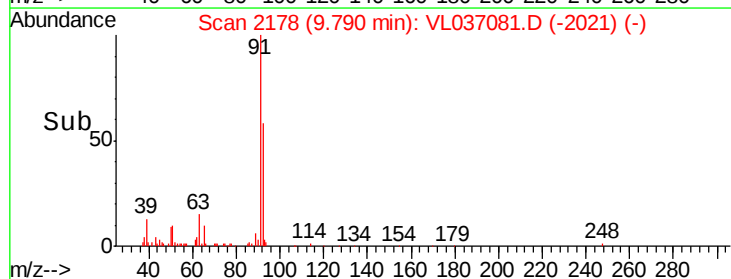
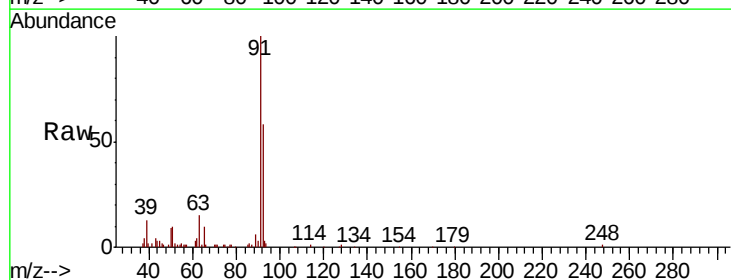
Instrument :
 MSVOA_L
 ClientSampleId :

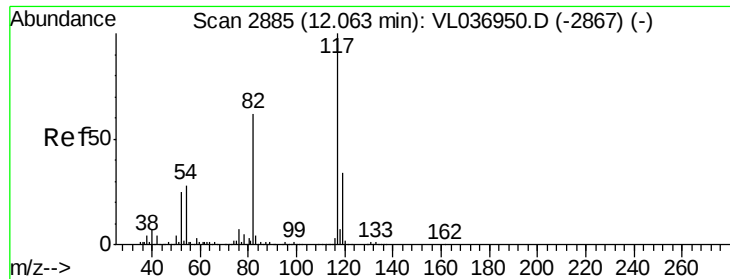
Tot Ion: 63 Resp: 10941
 Ion Ratio Lower Upper
 63 100
 41 8.3 55.7 83.5#
 62 12.5 56.2 84.4#



#53
 Toluene
 Concen: 0.184 ppbv
 RT: 9.79 min Scan# 2178
 Delta R.T. 0.01 min
 Lab File: VL037081.D
 Acq: 1 Jun 2021 22:16

Tgt Ion: 91 Resp: 82272
 Ion Ratio Lower Upper
 91 100
 92 65.8 49.5 74.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL037081.D

Acq: 1 Jun 2021 22:16

Instrument :

MSVOA_L

ClientSampled :

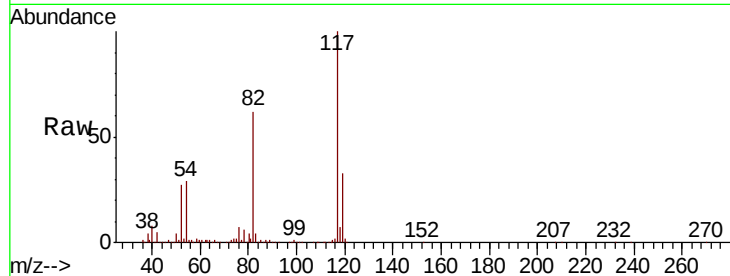
Tot Ion:117 Resp: 3905374

Ion Ratio Lower Upper

117 100

82 65.3 52.6 79.0

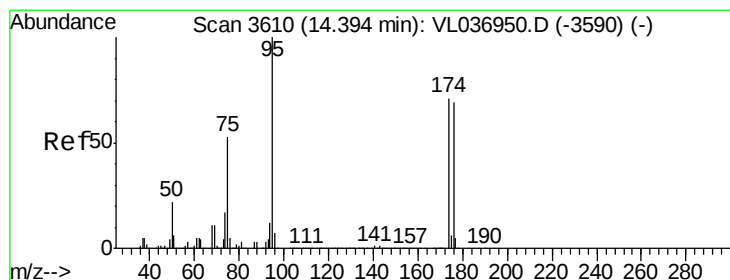
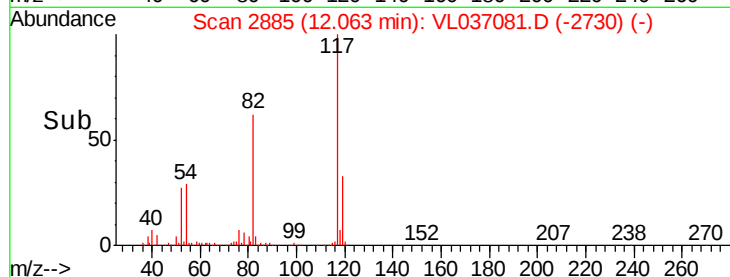
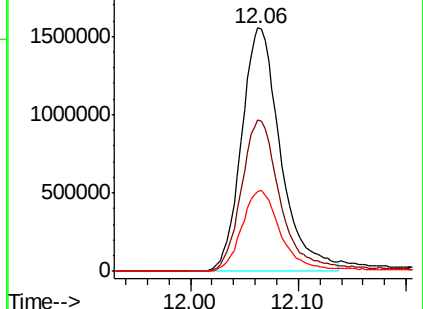
119 34.6 46.6 70.0#



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: 9.862 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.00 min

Lab File: VL037081.D

Acq: 1 Jun 2021 22:16

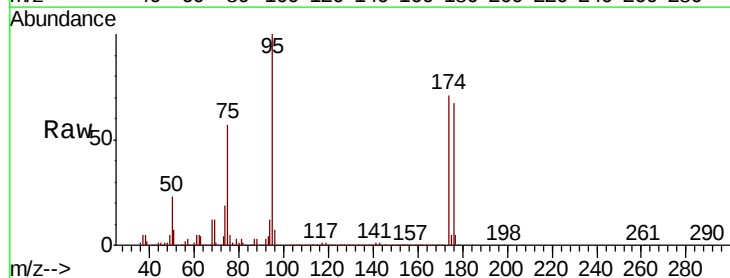
Tgt Ion: 95 Resp: 2893344

Ion Ratio Lower Upper

95 100

174 76.3 58.4 87.6

175 5.4 4.4 6.6



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

