

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033210.D
 Acq On : 14 Feb 2019 22:54
 Operator : SY/AP
 Sample : K1483-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

Quant Time: Feb 15 06:17:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 06 09:13:11 2019
 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	953961	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2115025	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2175014	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1741572	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

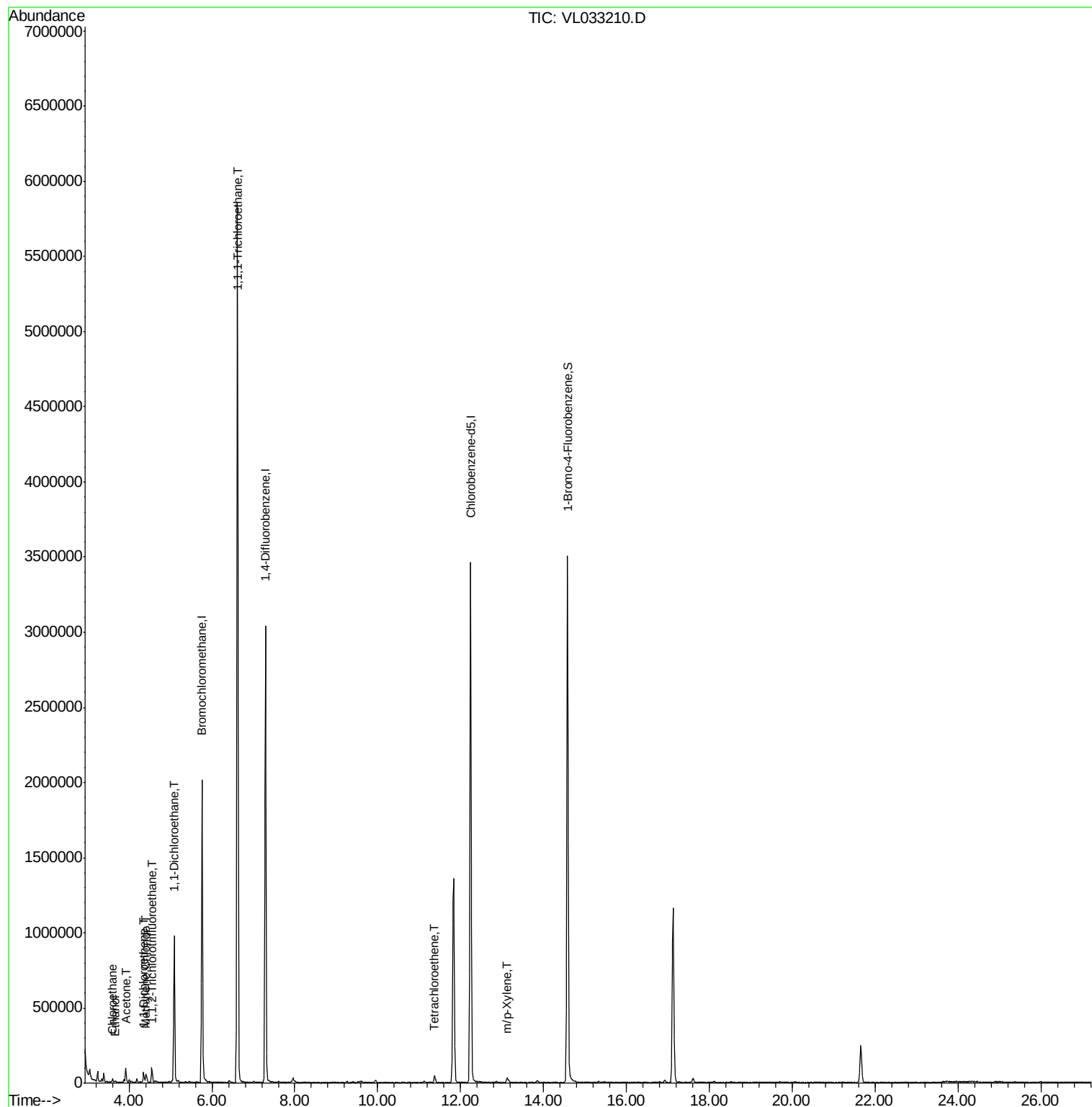
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.60	64	11730	0.567	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	33626m	0.329	ppbv	
13) Ethanol	3.66	45	8556m	0.462	ppbv	
15) Acetone	3.91	43	73992	0.688	ppbv #	86
18) 1,1-Dichloroethene	4.35	96	19105	0.417	ppbv	89
20) Methylene Chloride	4.41	84	15923	0.372	ppbv #	87
24) 1,1-Dichloroethane	5.09	63	805380	6.113	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	3772336	19.707	ppbv	99
52) Tetrachloroethene	11.37	164	11565m	0.140	ppbv	
59) m/p-Xylene	13.12	91	30388m	0.103	ppbv	

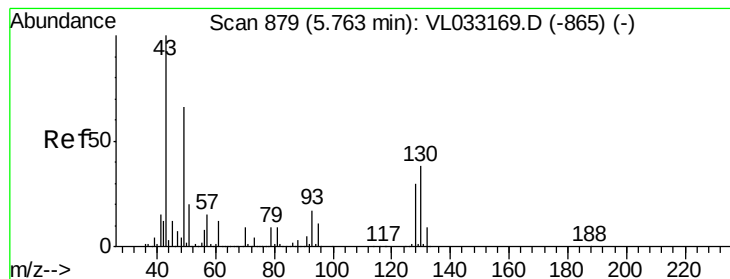
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021419\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
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QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

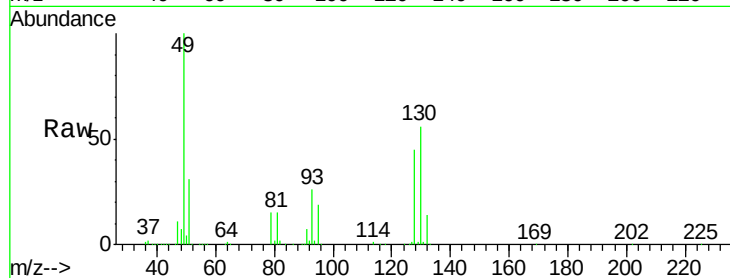
Tot Ion: 49 Resp: 953961

Ion Ratio Lower Upper

49 100

128 45.8 23.6 71.0

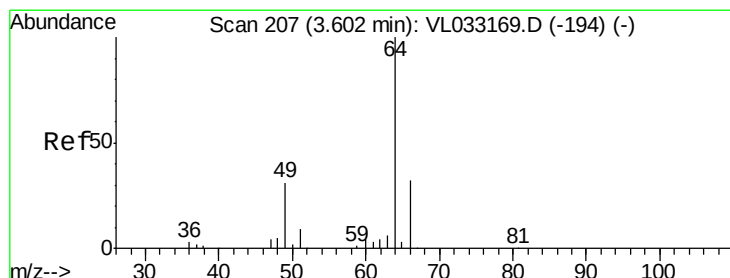
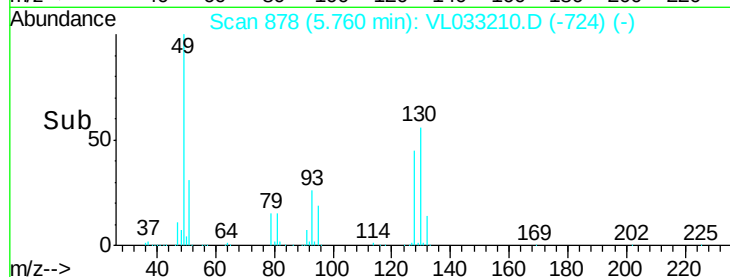
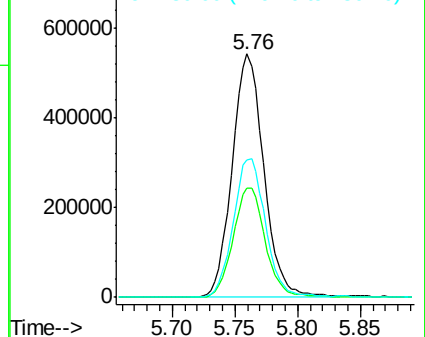
130 58.7 30.3 91.0



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



#7

Chloroethane

Concen: 0.567 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033210.D

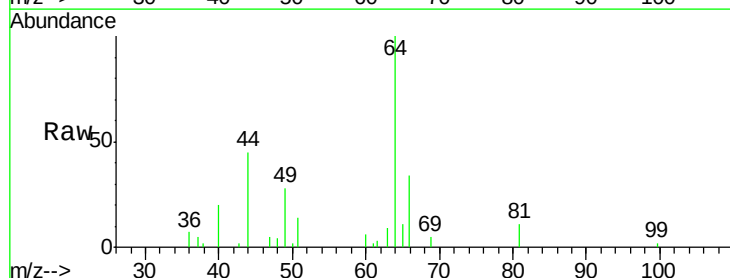
Acq: 14 Feb 2019 22:54

Tgt Ion: 64 Resp: 11730

Ion Ratio Lower Upper

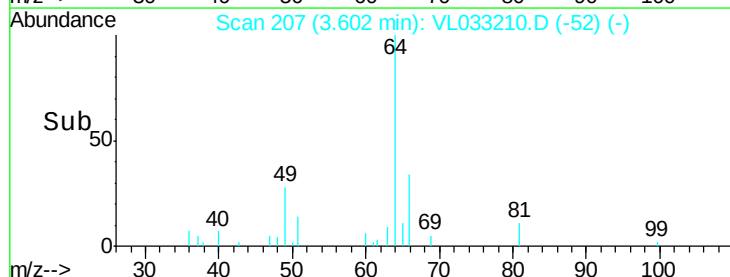
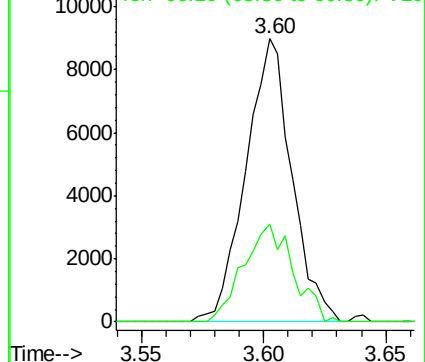
64 100

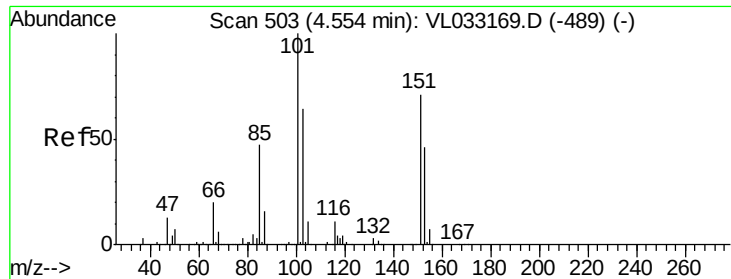
66 34.5 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.329 ppbv m

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

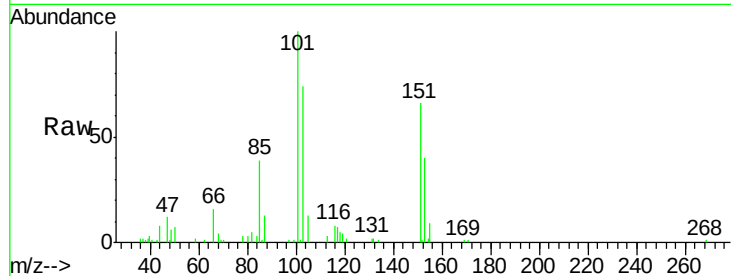
MIDDLE

Tot Ion:101 Resp: 33626

Ion Ratio Lower Upper

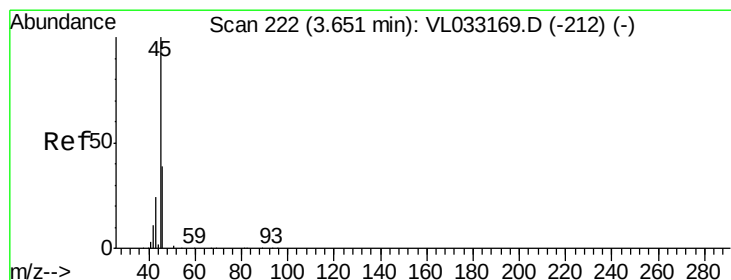
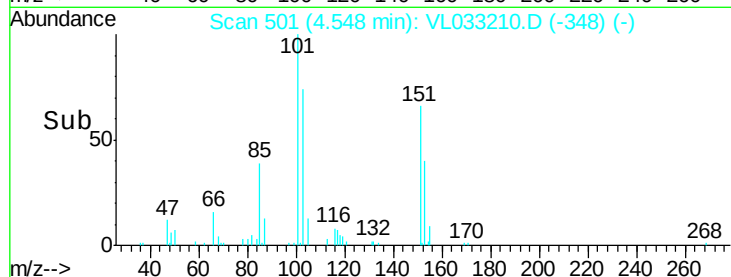
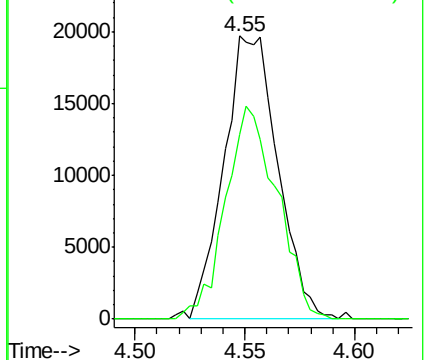
101 100

151 72.0 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.462 ppbv m

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033210.D

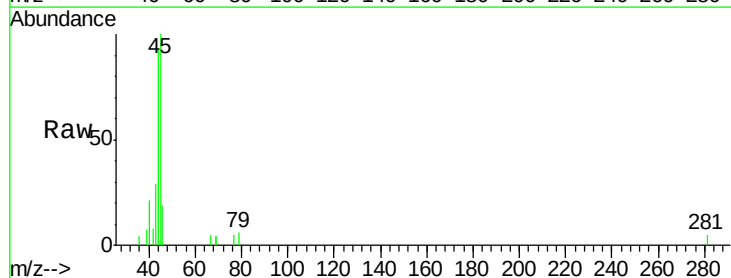
Acq: 14 Feb 2019 22:54

Tgt Ion: 45 Resp: 8556

Ion Ratio Lower Upper

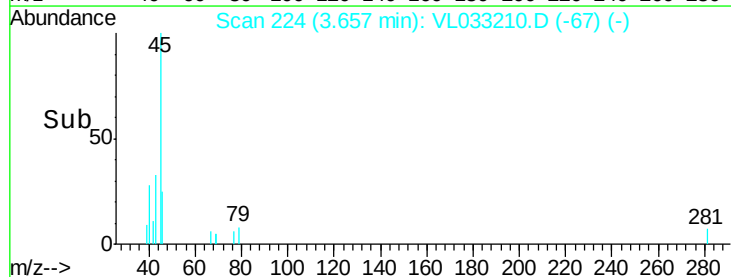
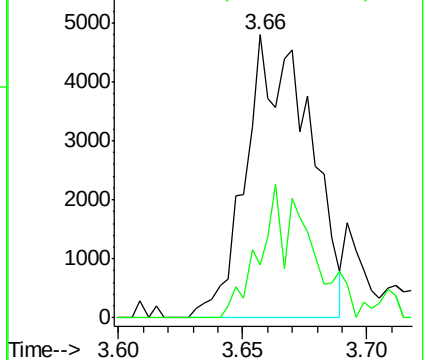
45 100

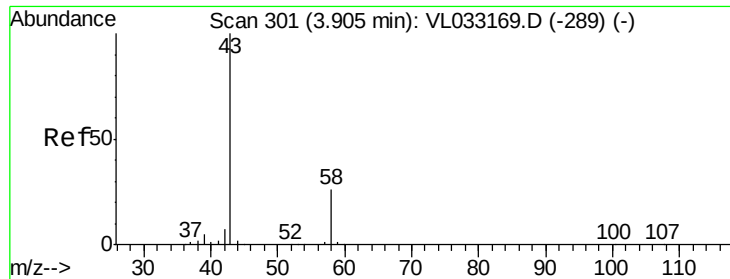
46 0.0 15.0 60.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.688 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

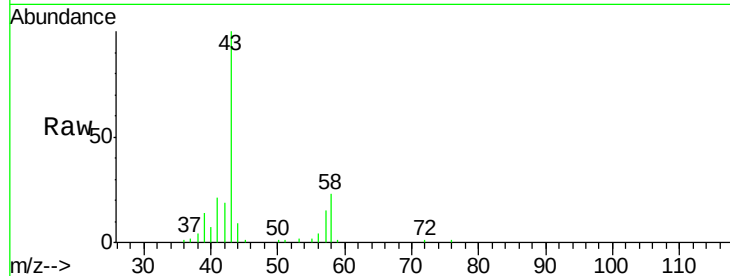
MIDDLE

Tot Ion: 43 Resp: 73992

Ion Ratio Lower Upper

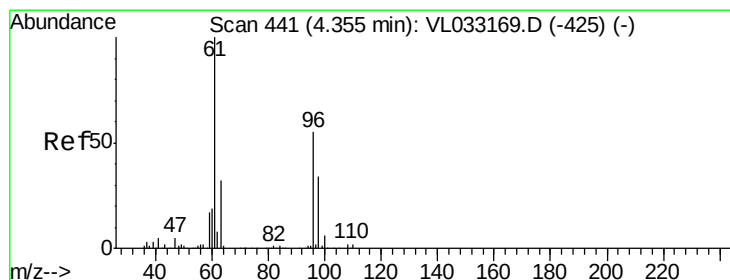
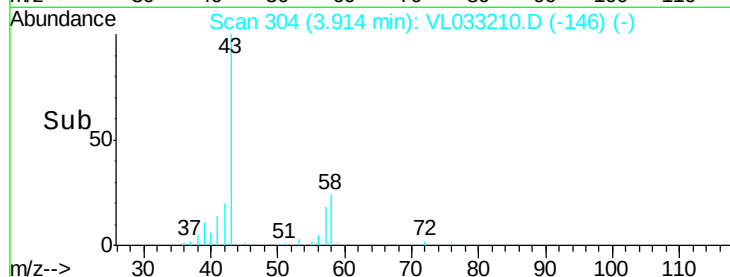
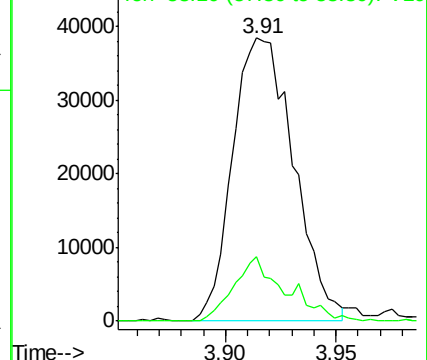
43 100

58 19.4 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.417 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

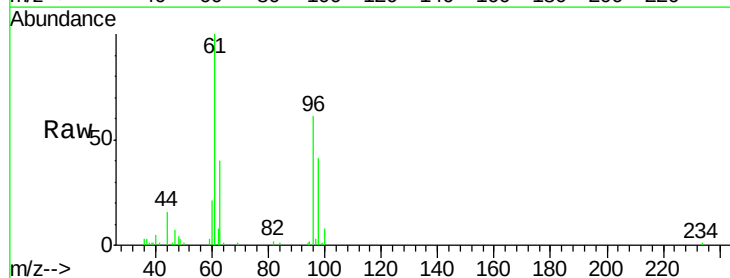
Tgt Ion: 96 Resp: 19105

Ion Ratio Lower Upper

96 100

61 162.9 145.0 217.6

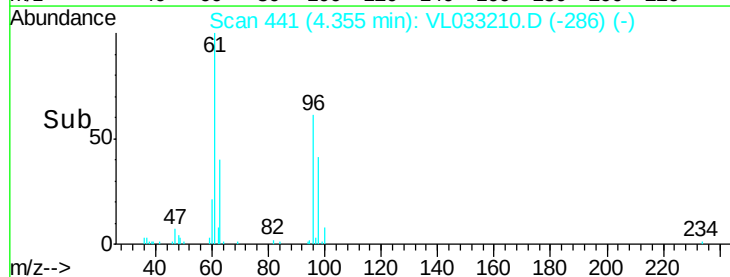
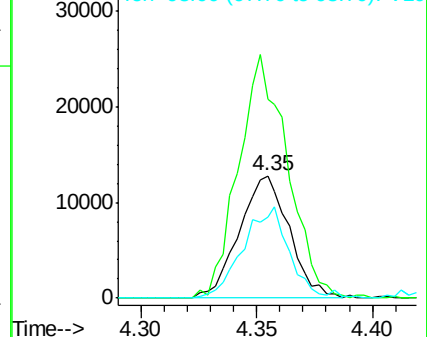
98 66.2 50.0 75.0

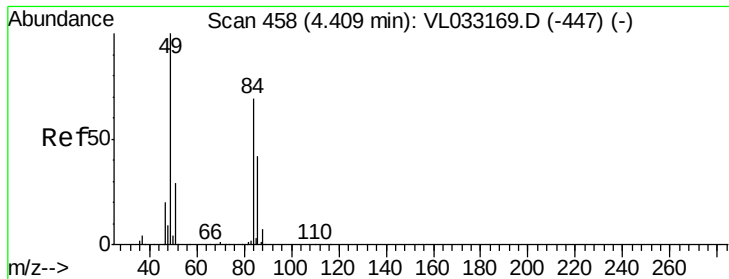


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

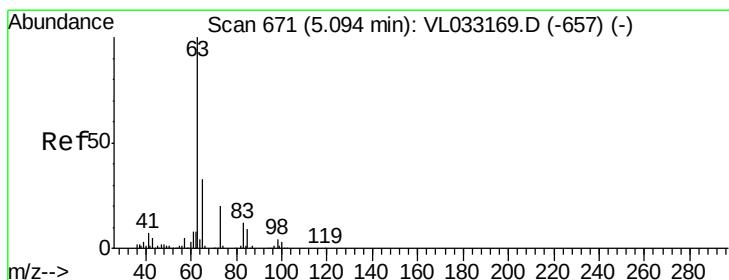
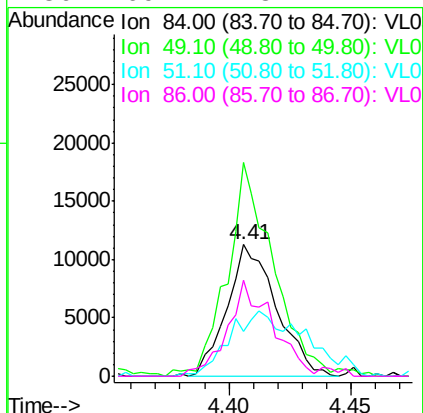
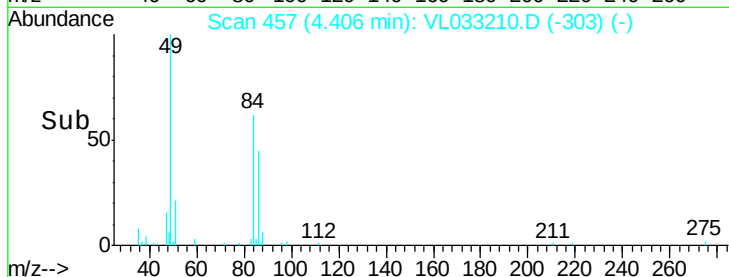
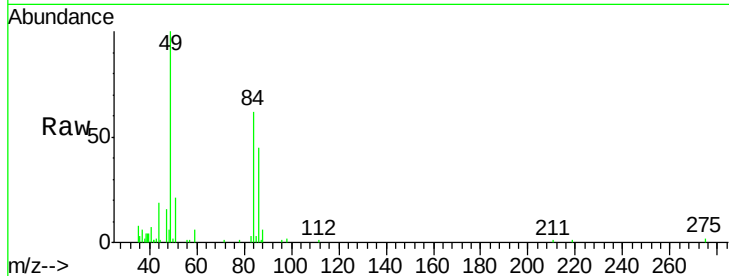




#20
Methylene Chloride
Concen: 0.372 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033210.D
Acq: 14 Feb 2019 22:54

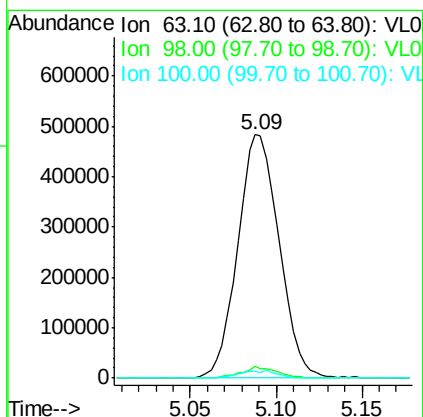
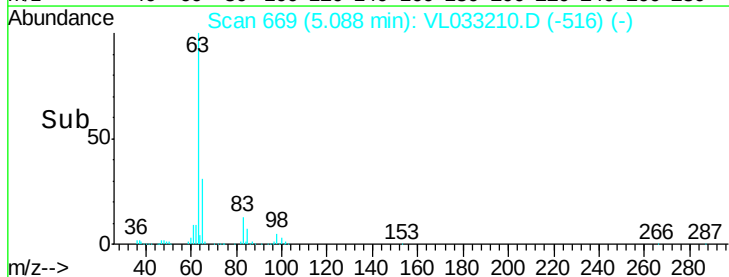
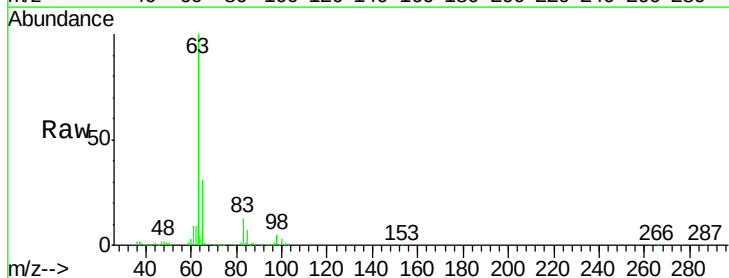
Instrument :
MSVOA_L
ClientSampleId :
MIDDLE

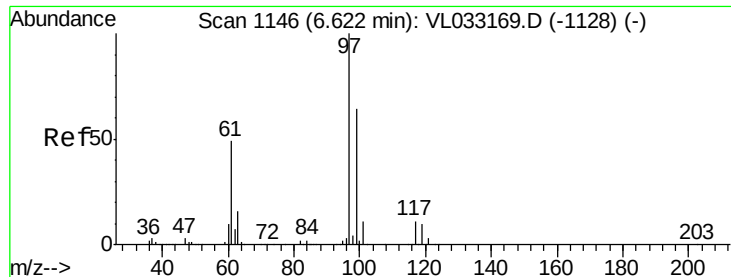
Tot Ion: 84 Resp: 15923
Ion Ratio Lower Upper
84 100
49 159.9 115.8 173.8
51 31.8 33.0 49.6#
86 69.4 48.2 72.2



#24
1,1-Dichloroethane
Concen: 6.113 ppbv
RT: 5.09 min Scan# 669
Delta R.T. -0.01 min
Lab File: VL033210.D
Acq: 14 Feb 2019 22:54

Tgt Ion: 63 Resp: 805380
Ion Ratio Lower Upper
63 100
98 4.7 2.1 6.5
100 3.0 1.4 4.2





#32

1,1,1-Trichloroethane

Concen: 19.707 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Instrument :

MSVOA_L

ClientSampled :

MIDDLE

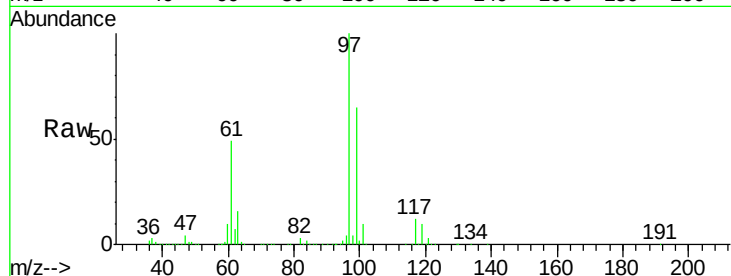
Tot Ion: 97 Resp: 3772336

Ion Ratio Lower Upper

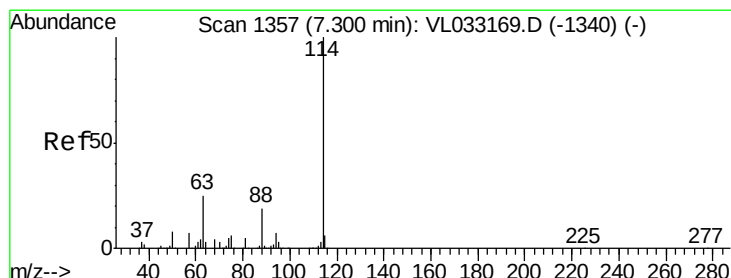
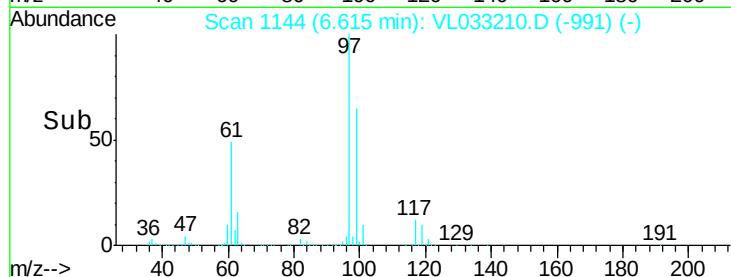
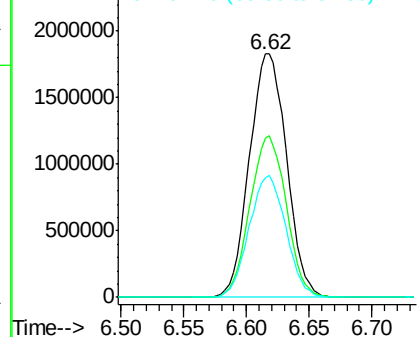
97 100

99 65.0 51.4 77.2

61 49.7 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

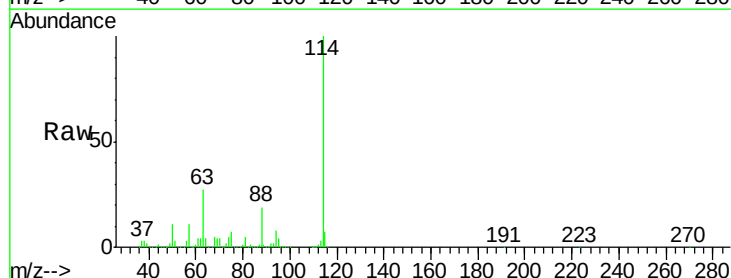
Tgt Ion: 114 Resp: 2115025

Ion Ratio Lower Upper

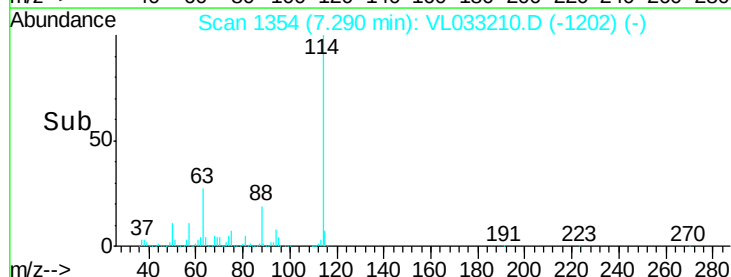
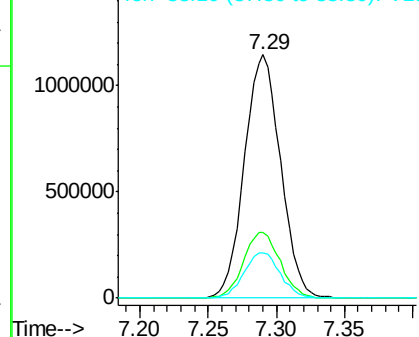
114 100

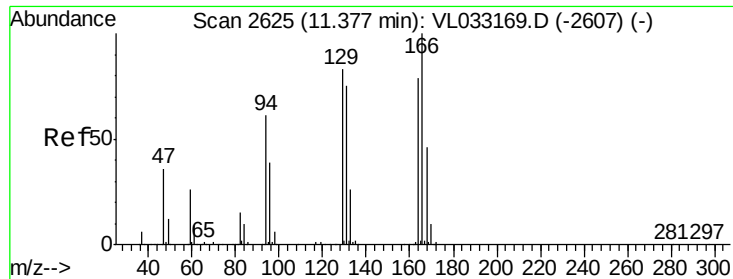
63 27.4 20.8 31.2

88 18.7 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#52

Tetrachloroethene

Concen: 0.140 ppbv m

RT: 11.37 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

Tot Ion:164 Resp: 11565

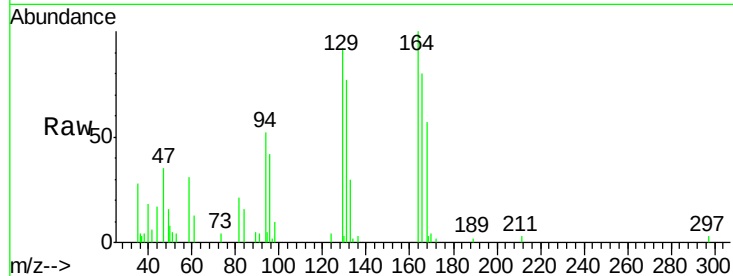
Ion Ratio Lower Upper

164 100

166 80.1 100.9 151.3#

129 92.1 83.9 125.9

131 77.0 76.2 114.2

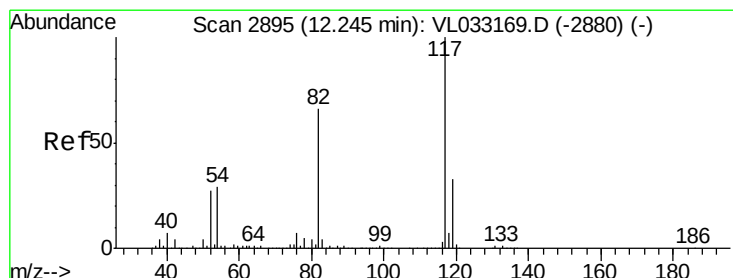
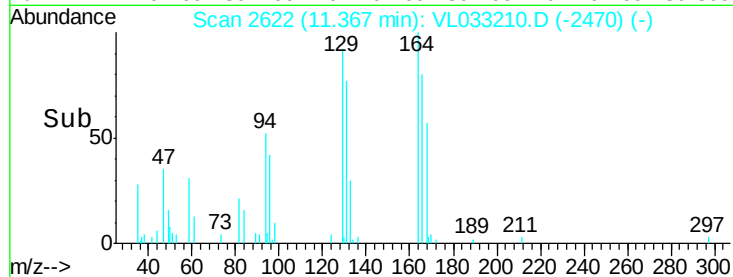
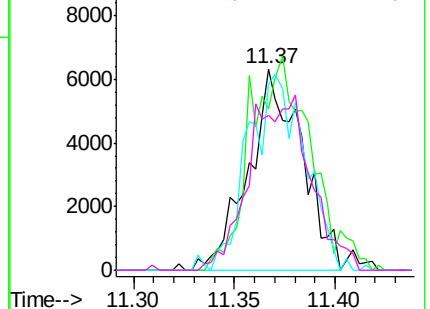


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

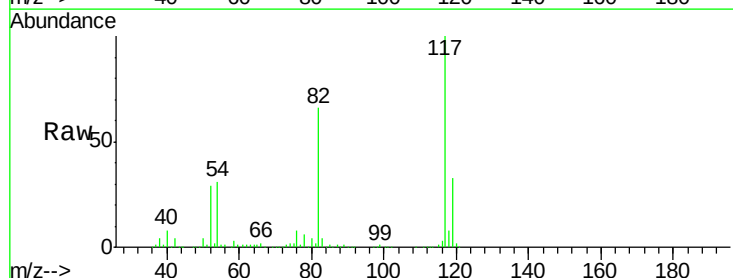
Tgt Ion:117 Resp: 2175014

Ion Ratio Lower Upper

117 100

82 67.8 49.5 74.3

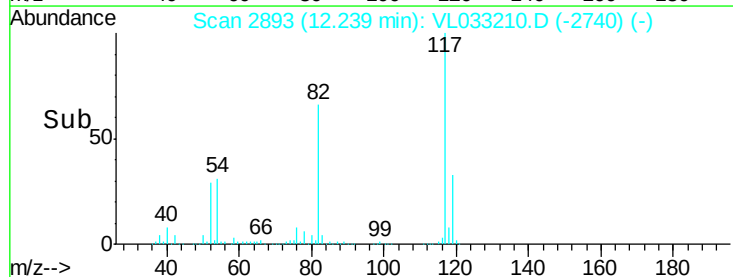
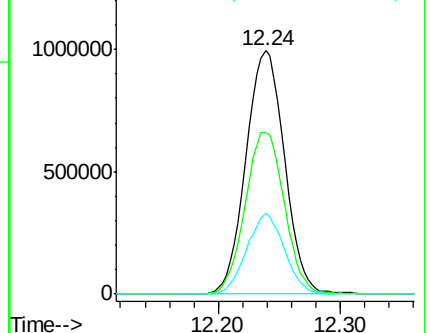
119 32.3 24.4 36.6

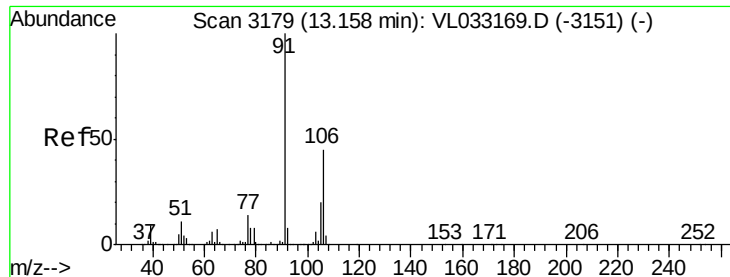


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#59

m/p-Xylene

Concen: 0.103 ppbv m

RT: 13.12 min Scan# 3167

Delta R.T. -0.04 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

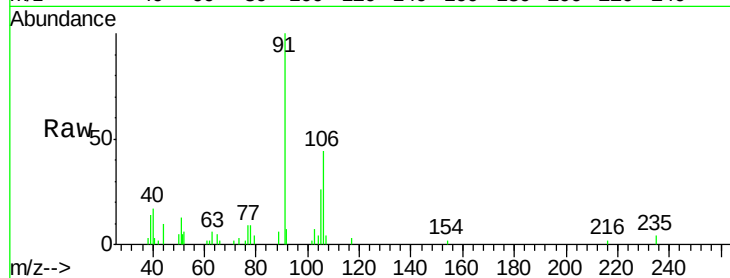
MIDDLE

Tot Ion: 91 Resp: 30388

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12000

10000

8000

6000

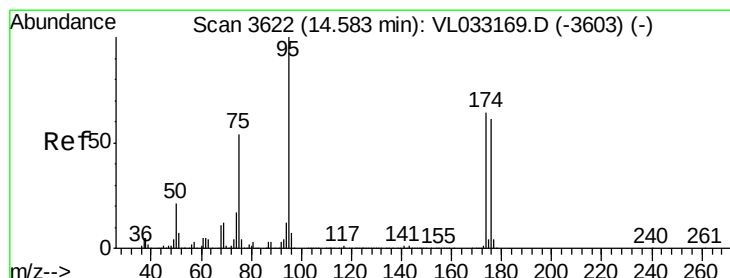
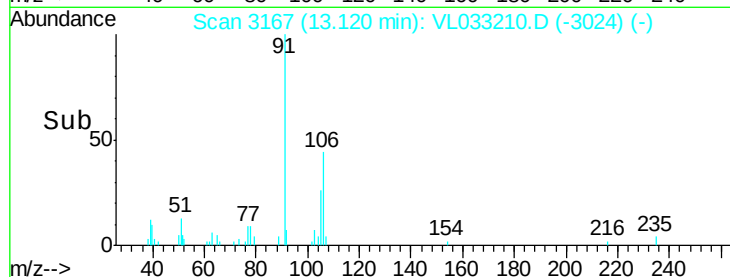
4000

2000

0

Time--> 13.00 13.10 13.20

13.12



#68

1-Bromo-4-Fluorobenzene

Concen: 10.397 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

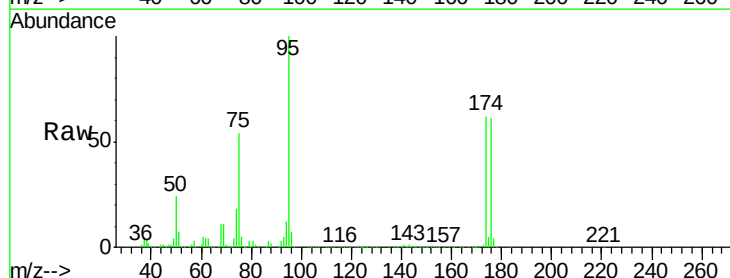
Tgt Ion: 95 Resp: 1741572

Ion Ratio Lower Upper

95 100

174 63.3 51.2 76.8

175 4.5 3.8 5.6



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

1000000

800000

600000

400000

200000

0

Time--> 14.50 14.60

14.58

