

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033214.D
 Acq On : 15 Feb 2019 1:31
 Operator : SY/AP
 Sample : K1483-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:23:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	921446	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2065420	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2047962	10.00	ppbv	0.00

System Monitoring Compounds

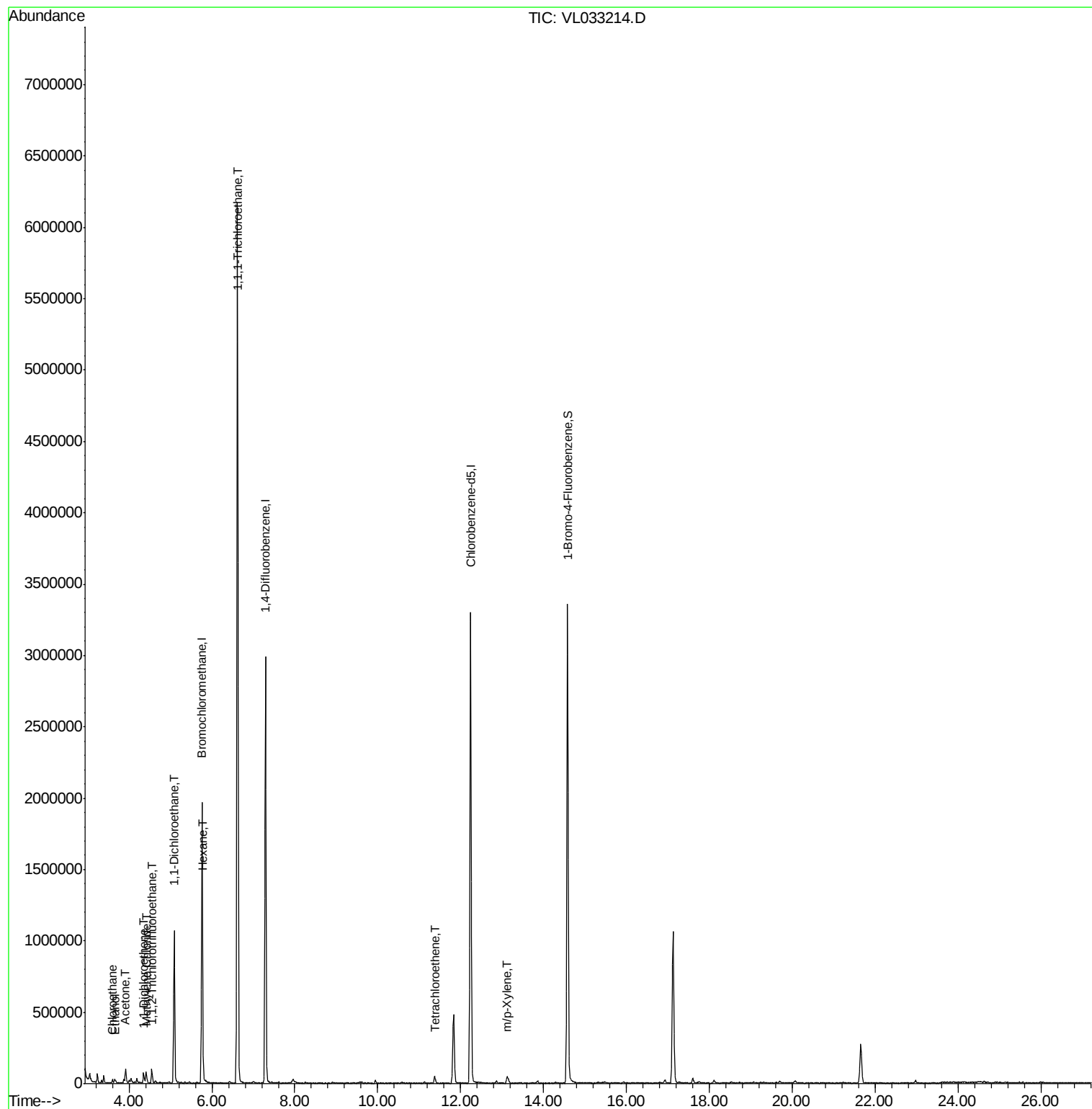
68) 1-Bromo-4-Fluorobenzene	14.58	95	1651186	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

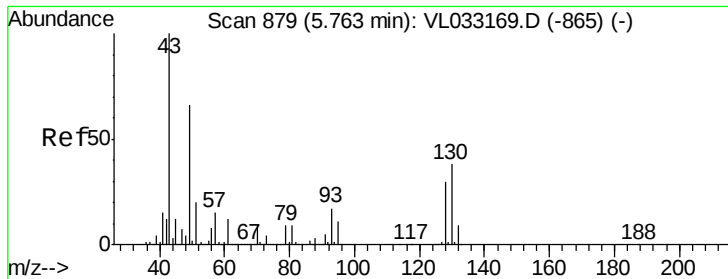
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.60	64	12972	0.649	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	32303m	0.327	ppbv	
13) Ethanol	3.66	45	25416m	1.395	ppbv	
15) Acetone	3.91	43	81904	0.789	ppbv	94
18) 1,1-Dichloroethene	4.36	96	19933	0.451	ppbv	83
20) Methylene Chloride	4.41	84	24200	0.586	ppbv	89
24) 1,1-Dichloroethane	5.09	63	884360	6.949	ppbv	99
26) Hexane	5.78	57	26603	0.243	ppbv #	43
32) 1,1,1-Trichloroethane	6.62	97	3996908	21.617	ppbv	99
52) Tetrachloroethene	11.38	164	10483m	0.130	ppbv	
59) m/p-Xylene	13.13	91	49168m	0.176	ppbv	

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

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Quant Time: Feb 21 01:23:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 06:00:52 2019
QLast Update : Wed Feb 20 06:00:52 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: VL033214.D

Acq: 15 Feb 2019 1:31

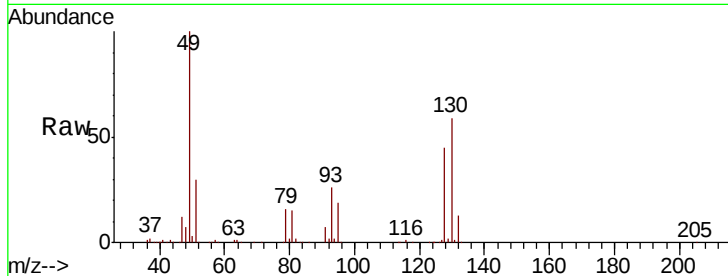
Tot Ion: 49 Resp: 921446

Ion Ratio Lower Upper

49 100

128 46.0 23.6 71.0

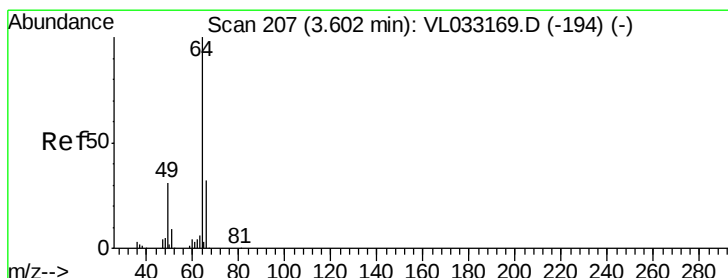
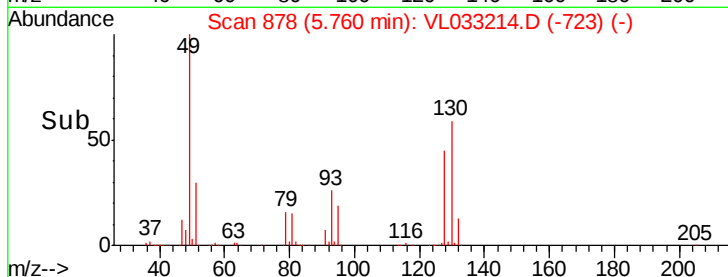
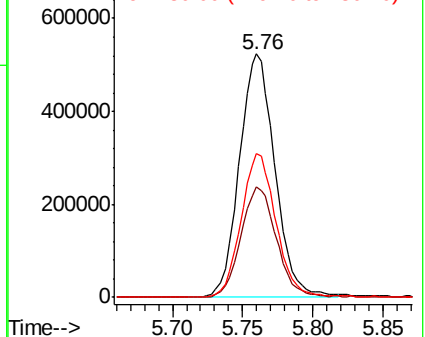
130 58.8 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#7

Chloroethane

Concen: 0.649 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033214.D

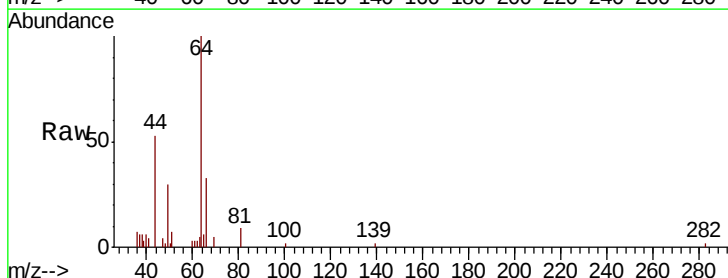
Acq: 15 Feb 2019 1:31

Tgt Ion: 64 Resp: 12972

Ion Ratio Lower Upper

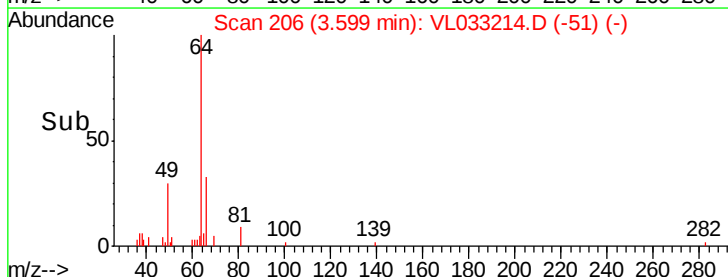
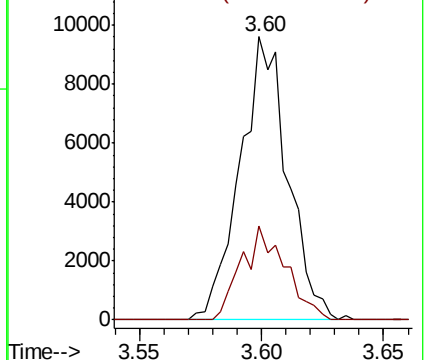
64 100

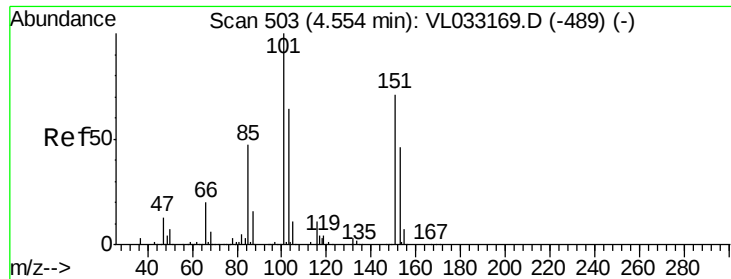
66 33.2 26.0 39.0



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: 0.327 ppbv m

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033214.D

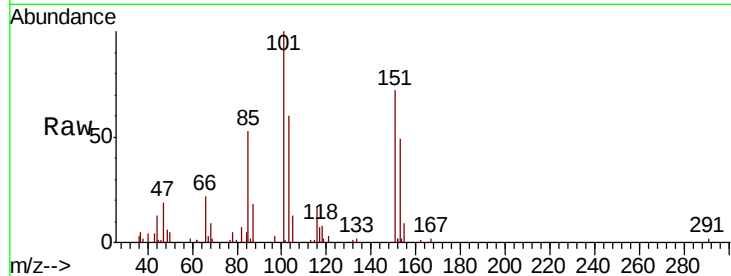
Acq: 15 Feb 2019 1:31

Tot Ion:101 Resp: 32303

Ion Ratio Lower Upper

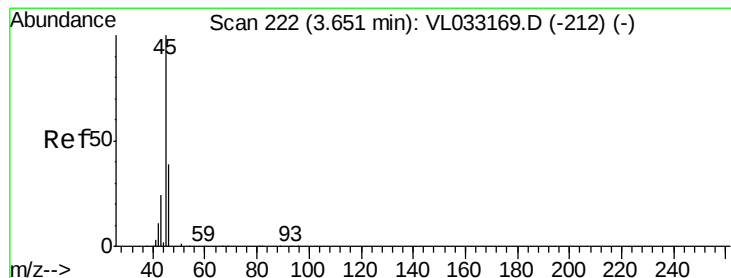
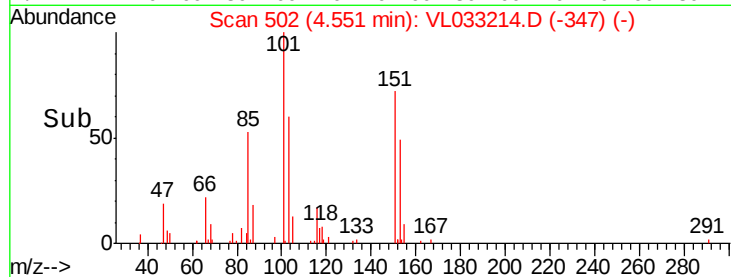
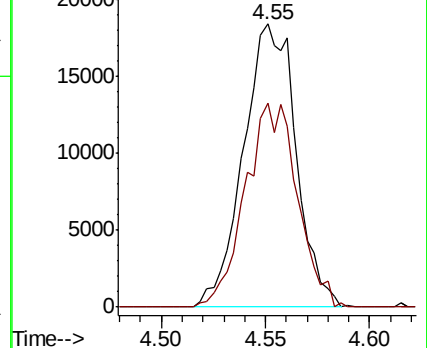
101 100

151 71.4 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: 1.395 ppbv m

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033214.D

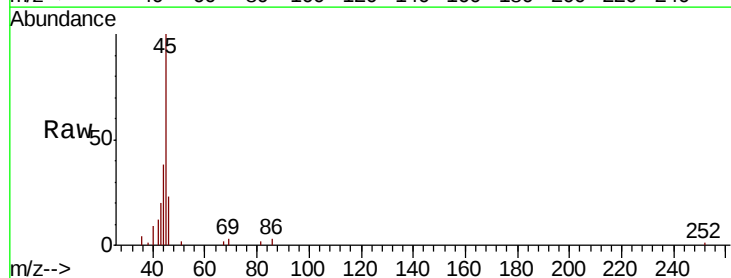
Acq: 15 Feb 2019 1:31

Tgt Ion: 45 Resp: 25416

Ion Ratio Lower Upper

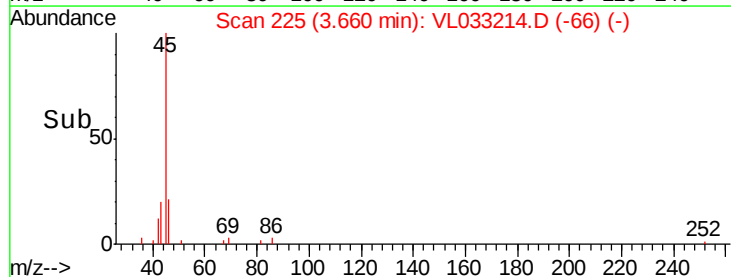
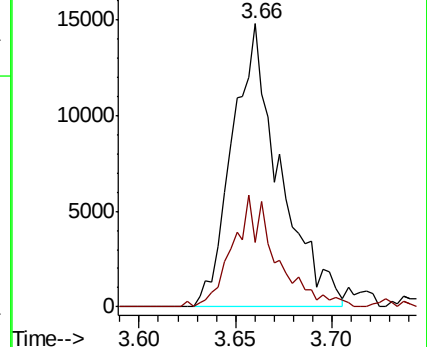
45 100

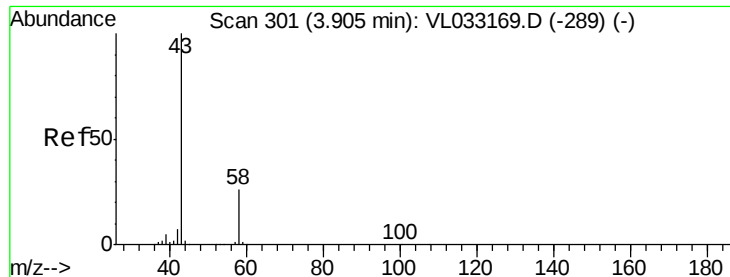
46 35.7 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.789 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033214.D

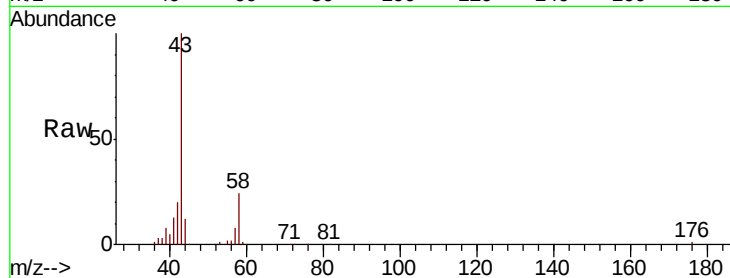
Acq: 15 Feb 2019 1:31

Tot Ion: 43 Resp: 81904

Ion Ratio Lower Upper

43 100

58 23.5 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

40000

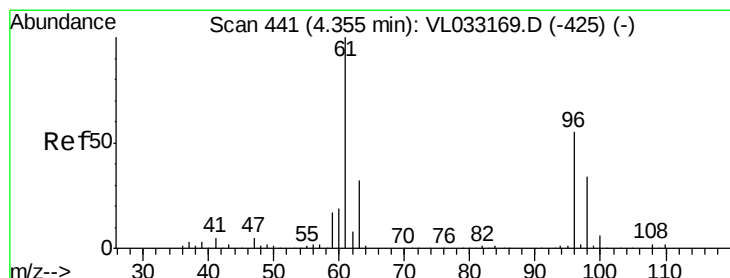
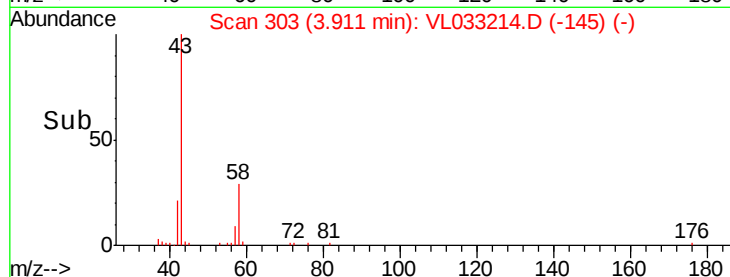
30000

20000

10000

0

Time--> 3.85 3.90 3.95



#18

1,1-Dichloroethene

Concen: 0.451 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033214.D

Acq: 15 Feb 2019 1:31

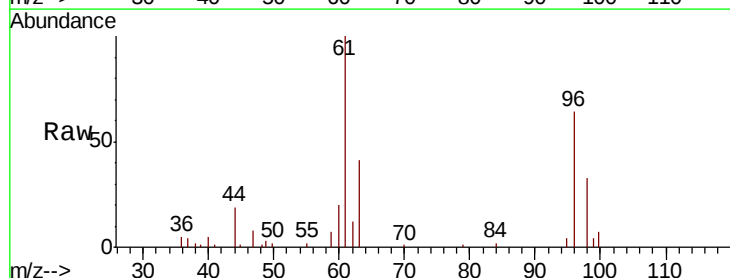
Tgt Ion: 96 Resp: 19933

Ion Ratio Lower Upper

96 100

61 156.1 145.0 217.6

98 50.8 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

30000

25000

20000

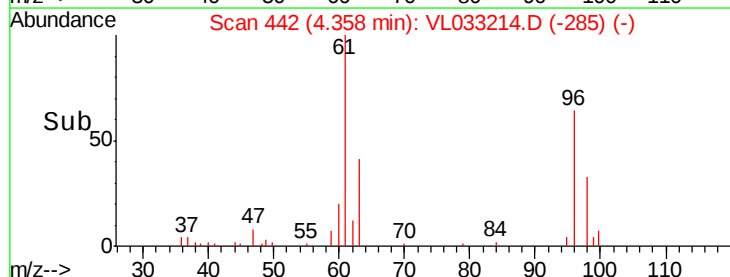
15000

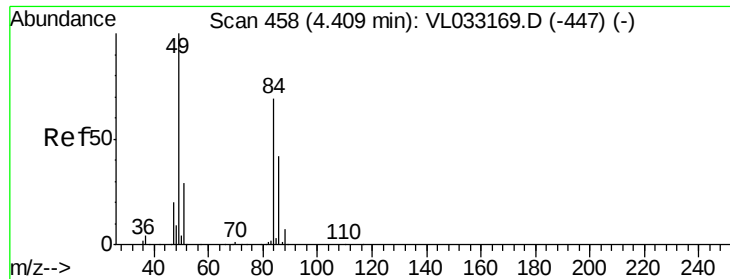
10000

5000

0

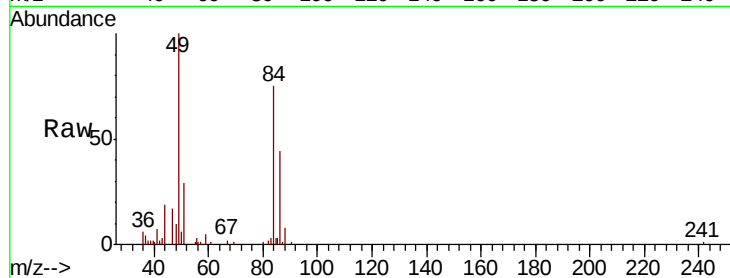
Time--> 4.30 4.35 4.40





#20
Methylene Chloride
Concen: 0.586 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033214.D
Acq: 15 Feb 2019 1:31

Tot Ion:	84	Resp:	24200
Ion	Ratio	Lower	Upper
84	100		
49	127.2	115.8	173.8
51	35.7	33.0	49.6
86	56.8	48.2	72.2



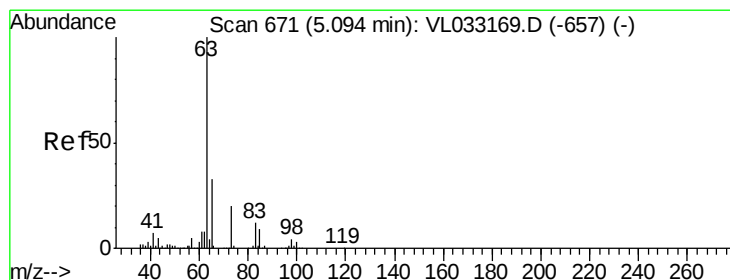
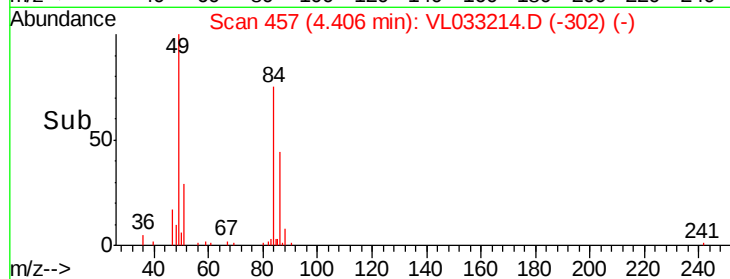
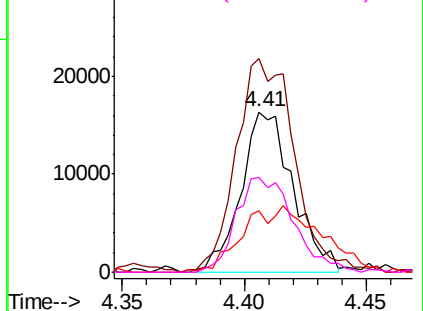
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

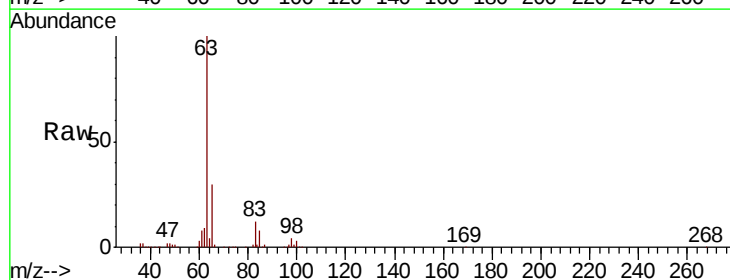
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#24
1,1-Dichloroethane
Concen: 6.949 ppbv
RT: 5.09 min Scan# 670
Delta R.T. -0.00 min
Lab File: VL033214.D
Acq: 15 Feb 2019 1:31

Tgt Ion:	63	Resp:	884360
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.5
100	3.1	1.4	4.2

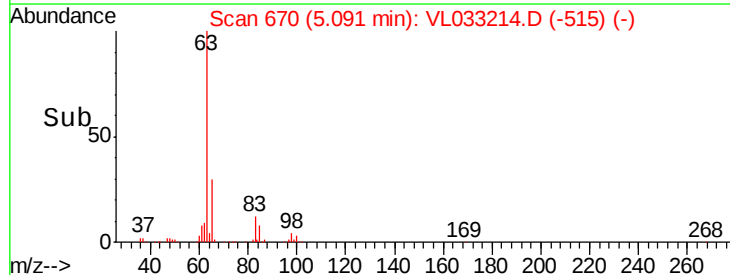
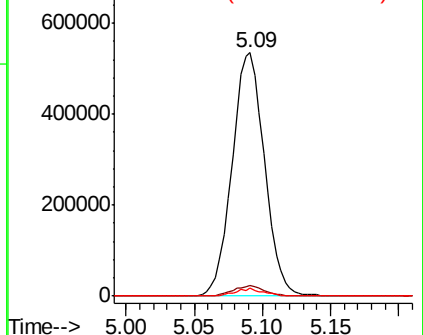


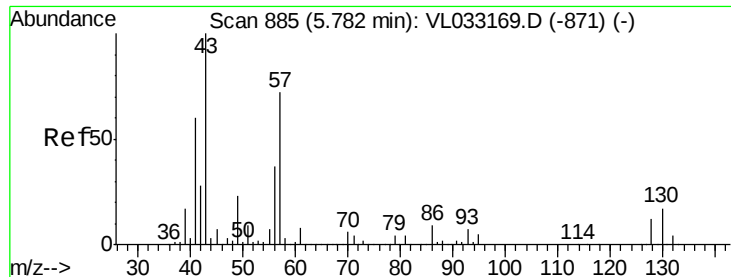
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

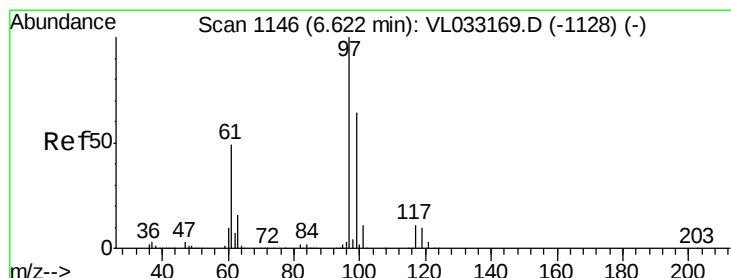
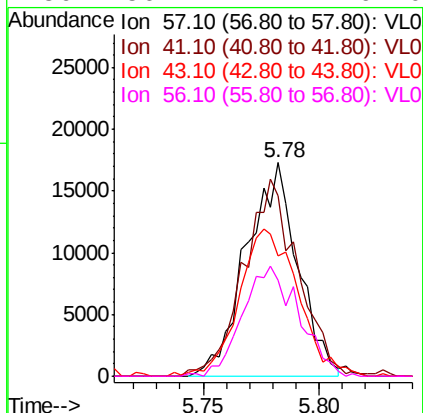
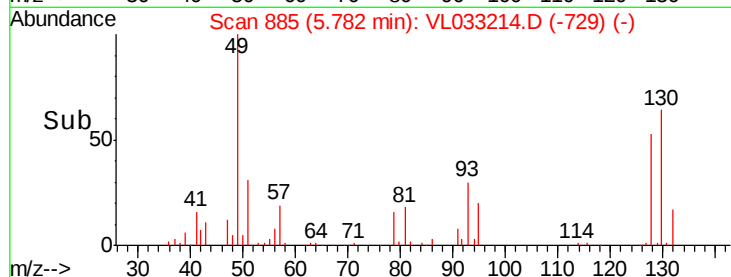
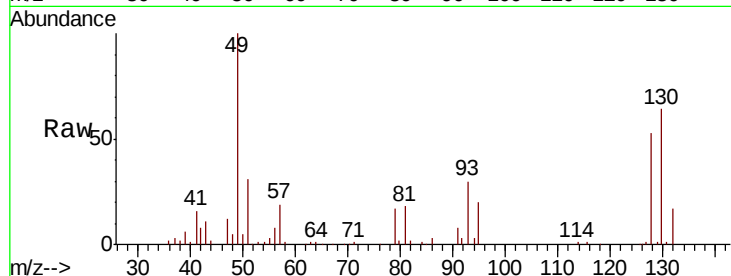
Ion 100.00 (99.70 to 100.70): VL0





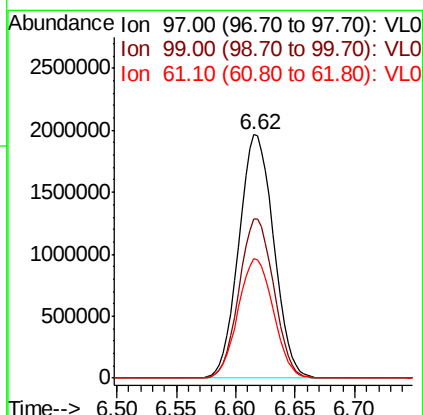
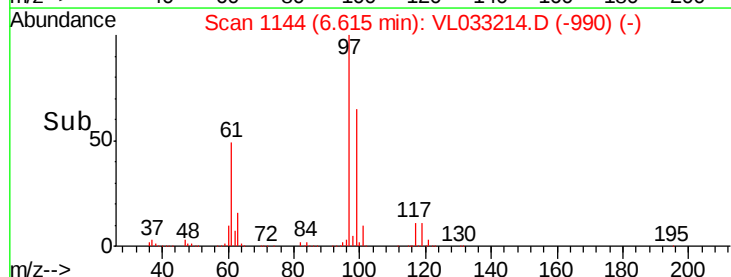
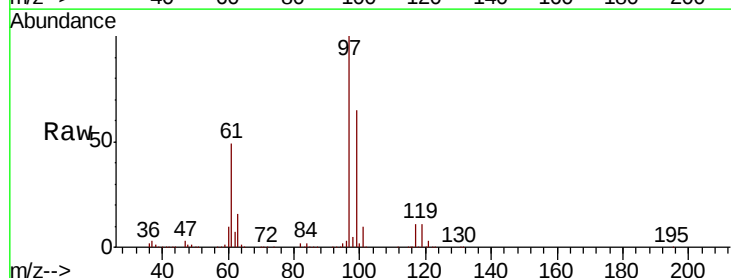
#26
Hexane
Concen: 0.243 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033214.D
Acq: 15 Feb 2019 1:31

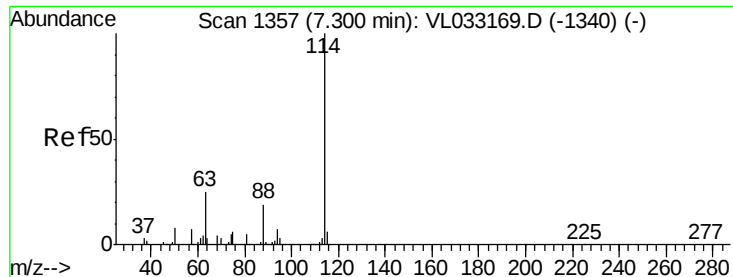
Tot Ion: 57 Resp: 26603
Ion Ratio Lower Upper
57 100
41 97.9 69.4 104.2
43 80.3 176.7 265.1#
56 56.2 41.4 62.0



#32
1,1,1-Trichloroethane
Concen: 21.617 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.01 min
Lab File: VL033214.D
Acq: 15 Feb 2019 1:31

Tgt Ion: 97 Resp: 3996908
Ion Ratio Lower Upper
97 100
99 65.1 51.4 77.2
61 49.6 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033214.D

Acq: 15 Feb 2019 1:31

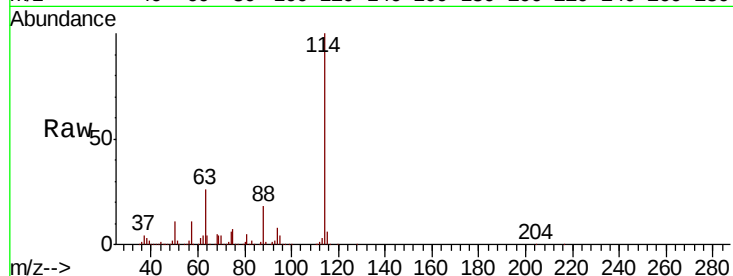
Tot Ion:114 Resp: 2065420

Ion Ratio Lower Upper

114 100

63 27.0 20.8 31.2

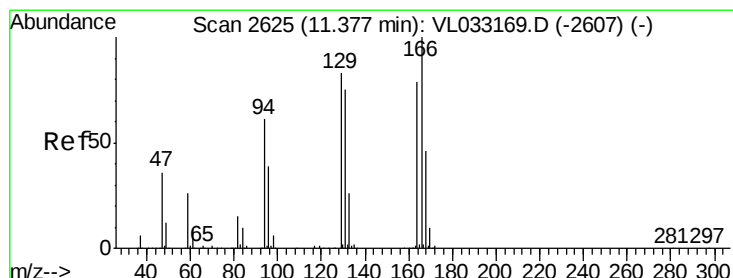
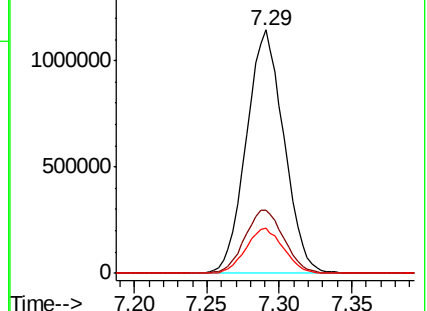
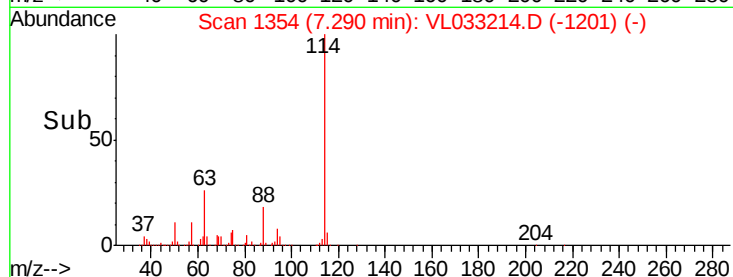
88 18.7 14.6 22.0



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: 0.130 ppbv m

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033214.D

Acq: 15 Feb 2019 1:31

Tgt Ion:164 Resp: 10483

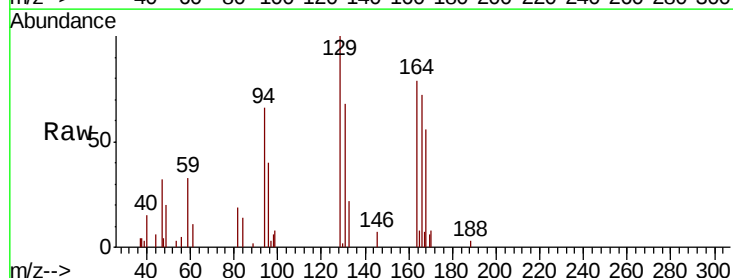
Ion Ratio Lower Upper

164 100

166 90.7 100.9 151.3#

129 126.0 83.9 125.9#

131 85.5 76.2 114.2

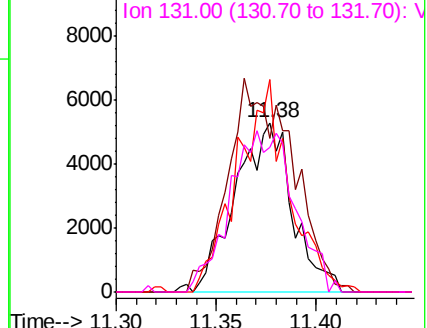
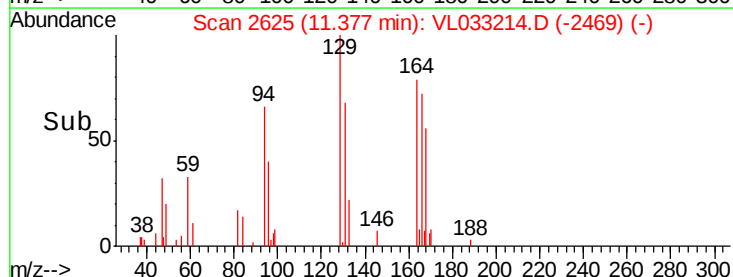


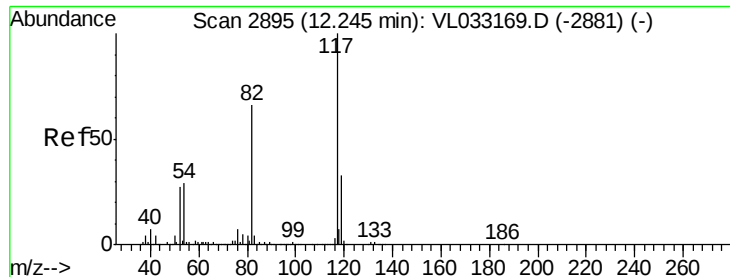
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

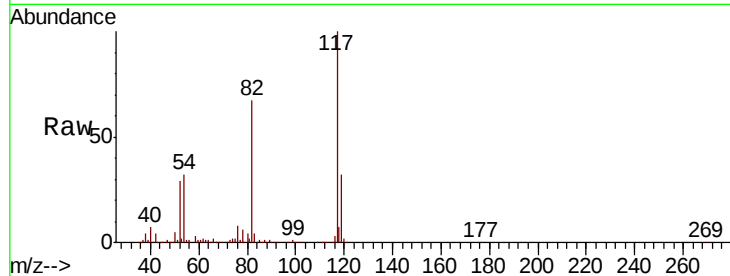
Ion 131.00 (130.70 to 131.70): V



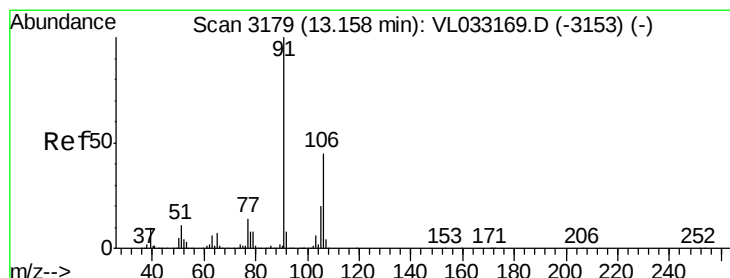
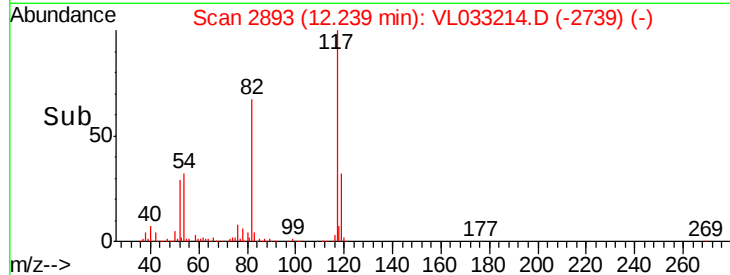
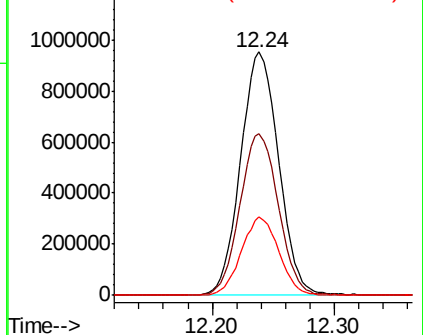


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033214.D
Acq: 15 Feb 2019 1:31

Tot Ion:117 Resp: 2047962
Ion Ratio Lower Upper
117 100
82 67.7 53.8 80.8
119 32.0 46.9 70.3#

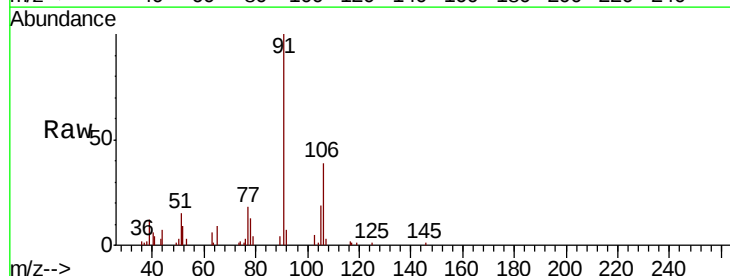


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

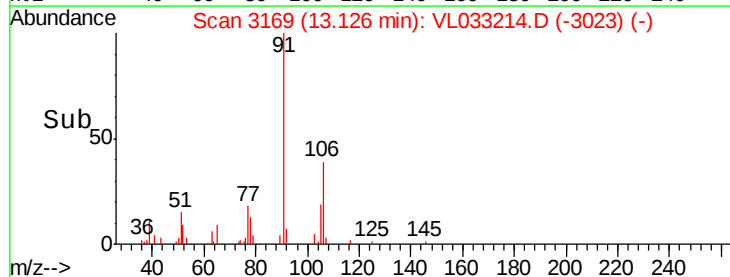
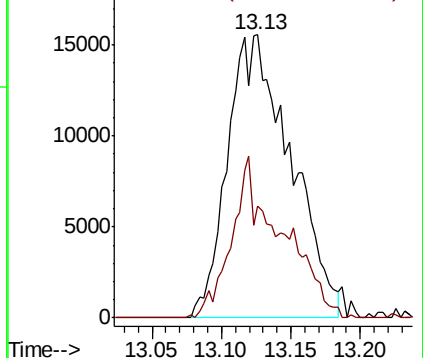


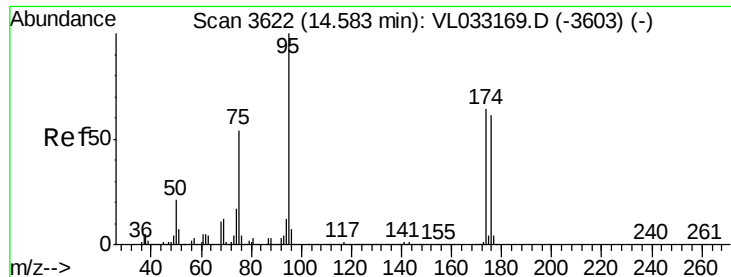
#59
m/p-Xylene
Concen: 0.176 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033214.D
Acq: 15 Feb 2019 1:31

Tgt Ion: 91 Resp: 49168
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.346 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033214.D

Acq: 15 Feb 2019 1:31

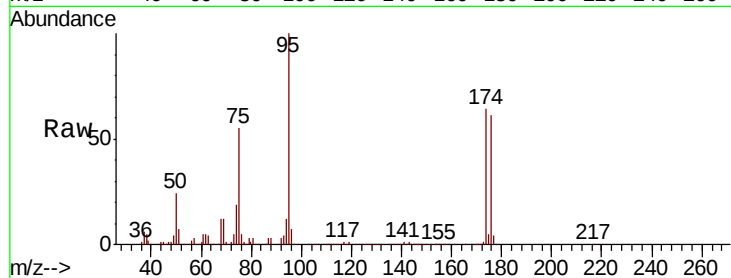
Tot Ion: 95 Resp: 1651186

Ion Ratio Lower Upper

95 100

174 63.1 51.1 76.7

175 4.6 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

