

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030619\
 Data File : VL033244.D
 Acq On : 6 Mar 2019 4:33
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 05:47:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 02:40:20 2019
 QLast Update : Wed Mar 06 02:40:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1031350	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2278620	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2218022	10.00	ppbv	0.00

System Monitoring Compounds

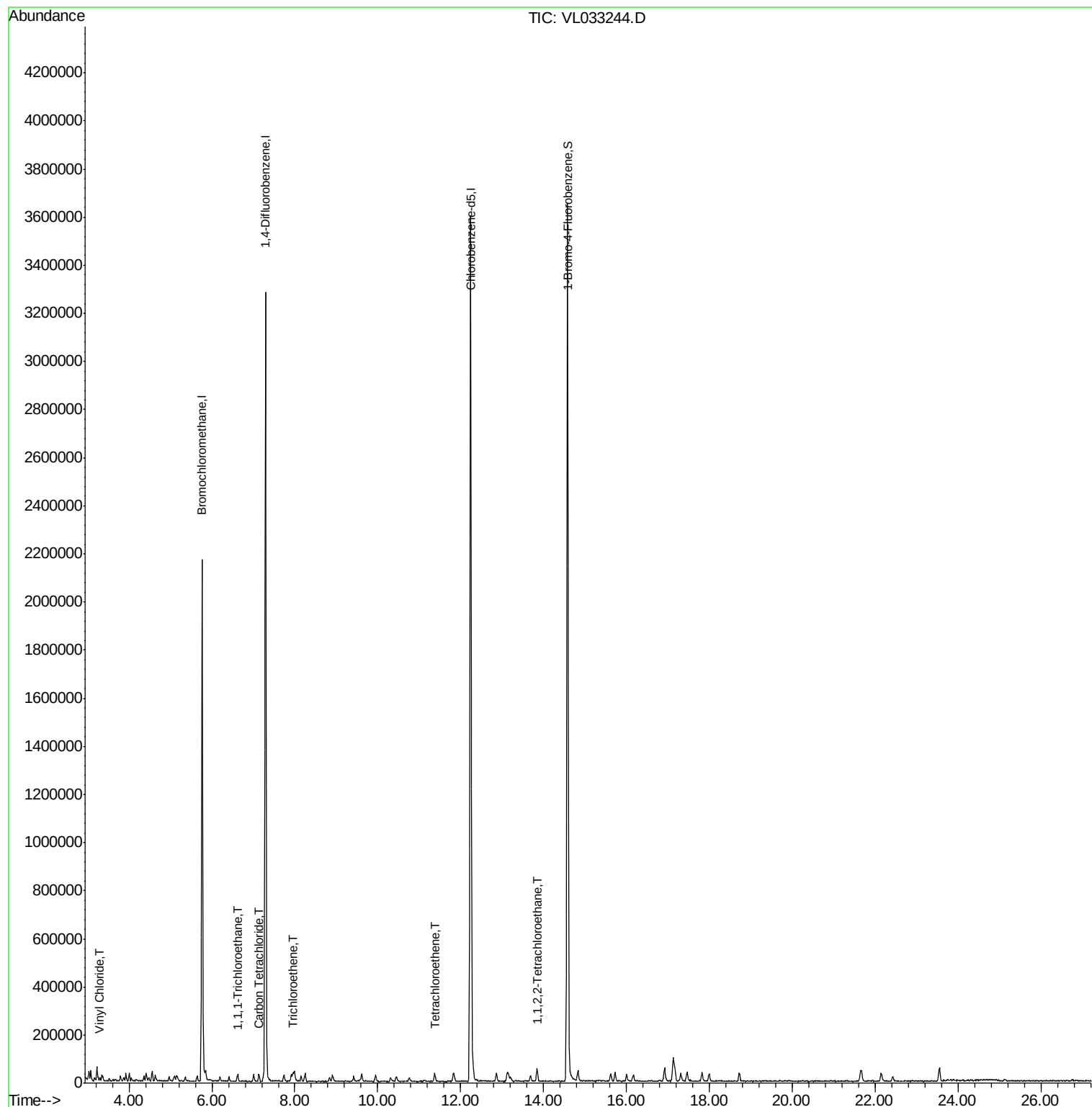
68) 1-Bromo-4-Fluorobenzene	14.58	95	1736732	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

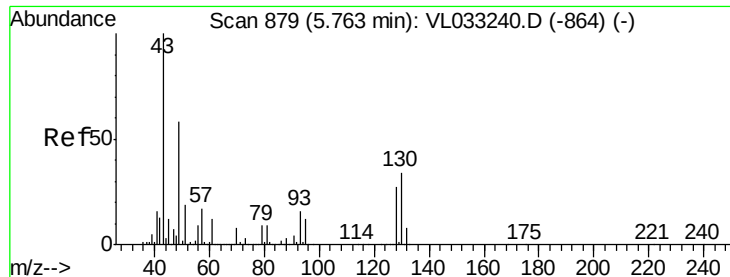
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	7772	0.115	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	17014m	0.082	ppbv	
35) Carbon Tetrachloride	7.13	117	17972	0.102	ppbv #	91
38) Trichloroethene	7.96	130	7736m	0.078	ppbv	
52) Tetrachloroethene	11.37	164	8157m	0.091	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.84	83	17790m	0.078	ppbv	

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

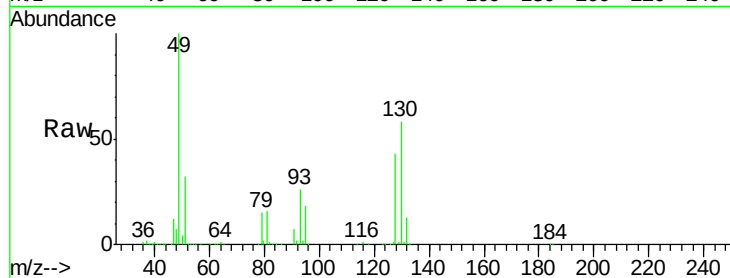
Tot Ion: 49 Resp: 1031350

Ion Ratio Lower Upper

49 100

128 45.7 22.9 68.8

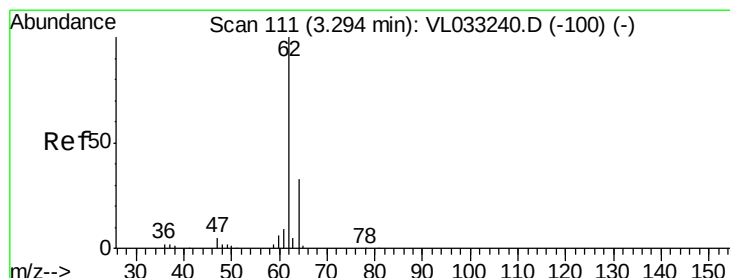
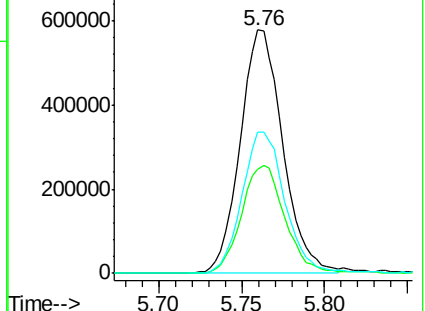
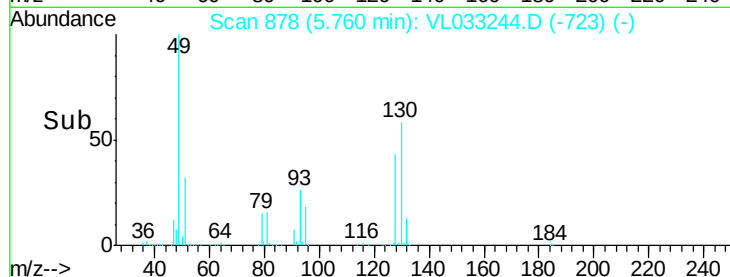
130 59.1 29.3 88.0



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



#5

Vinyl Chloride

Concen: 0.115 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033244.D

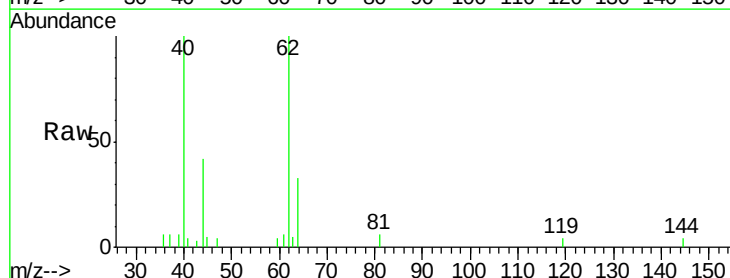
Acq: 6 Mar 2019 4:33

Tgt Ion: 62 Resp: 7772

Ion Ratio Lower Upper

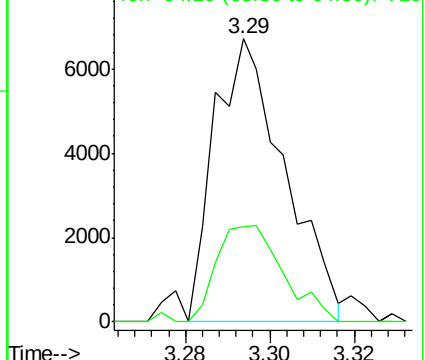
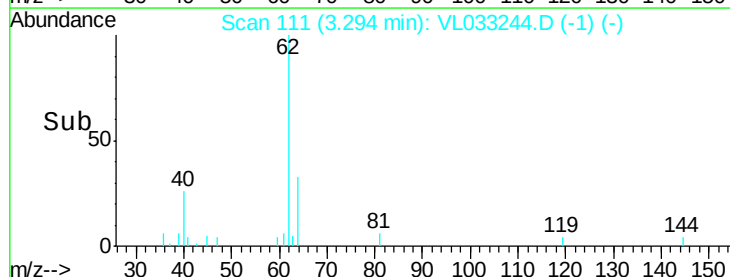
62 100

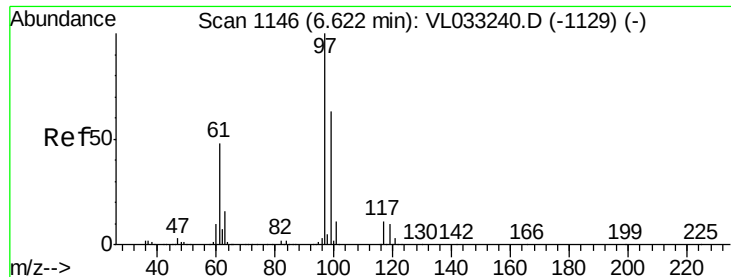
64 33.4 26.2 39.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.082 ppbv m

RT: 6.62 min Scan# 1145

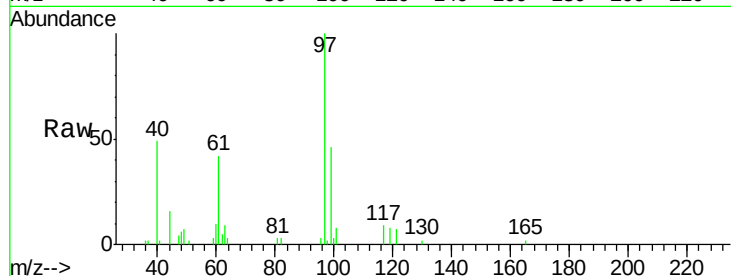
Delta R.T. -0.00 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

Tot Ion: 97 Resp: 17014

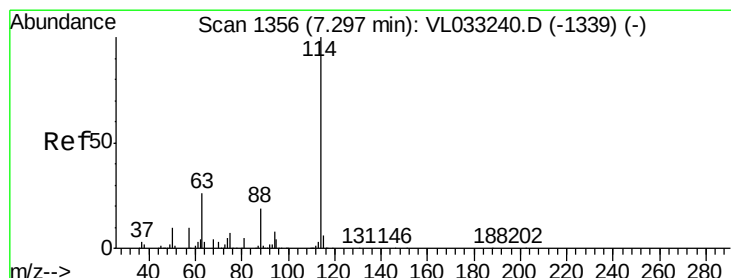
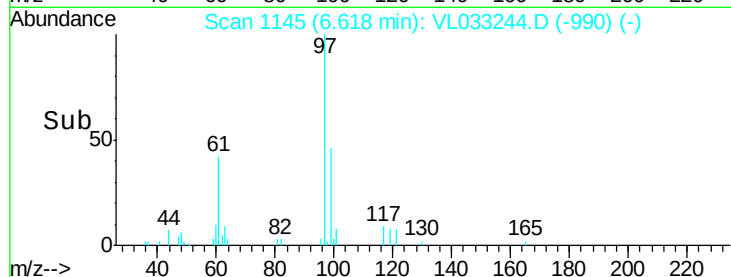
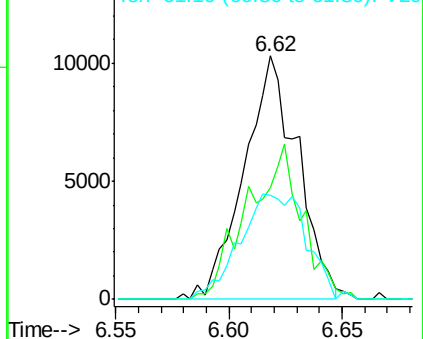
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	54.1	40.1	60.1



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

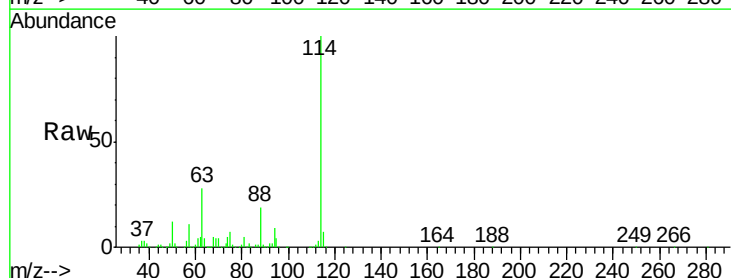
Delta R.T. -0.01 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

Tgt Ion: 114 Resp: 2278620

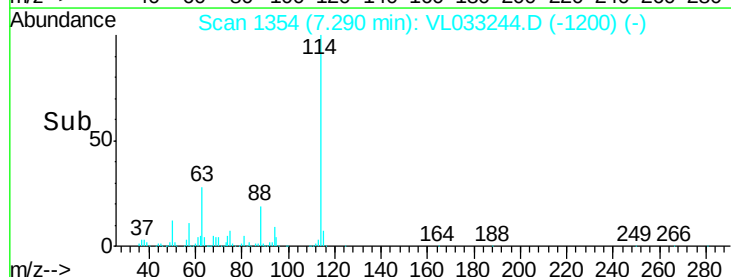
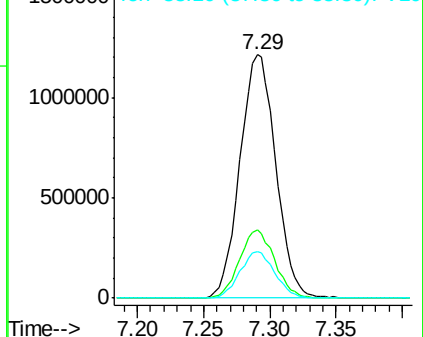
Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.0	33.0
88	18.6	15.0	22.4

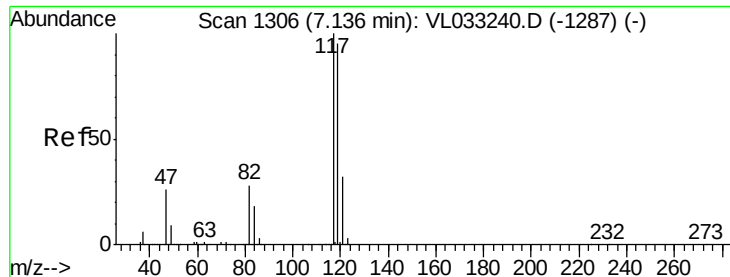


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.102 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

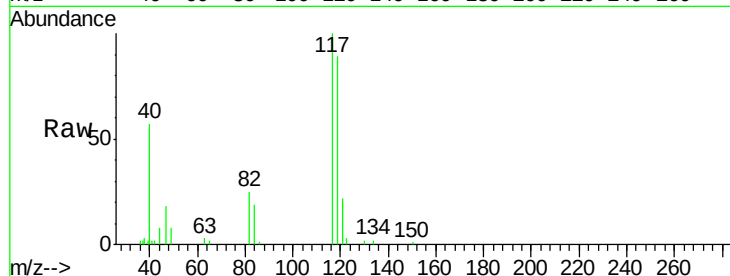
Tot Ion:117 Resp: 17972

Ion Ratio Lower Upper

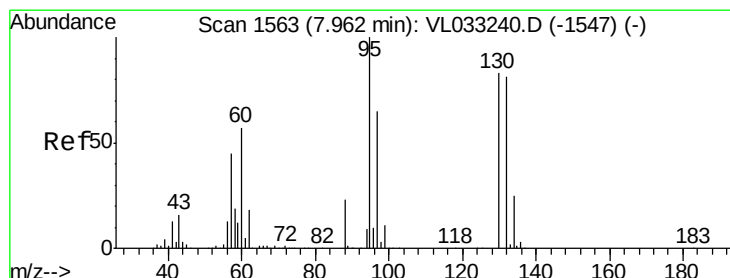
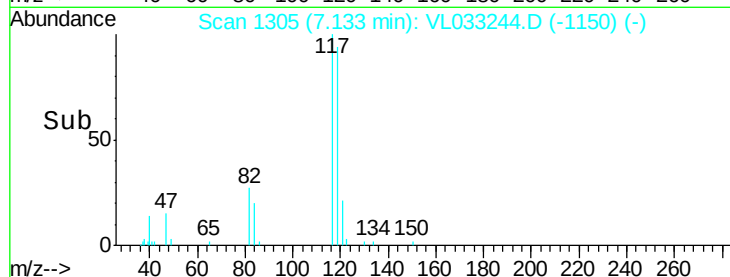
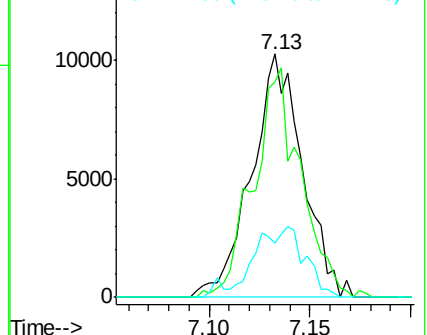
117 100

119 88.7 75.8 113.6

121 22.4 25.6 38.4#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.078 ppbv m

RT: 7.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

Tgt Ion:130 Resp: 7736

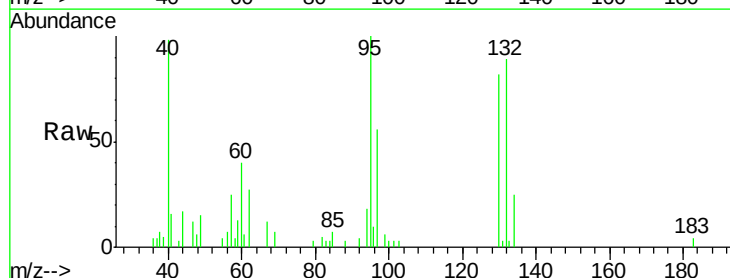
Ion Ratio Lower Upper

130 100

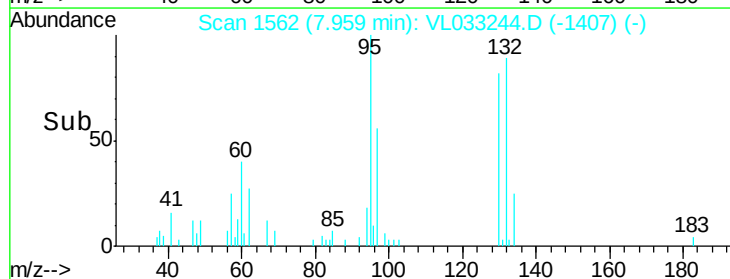
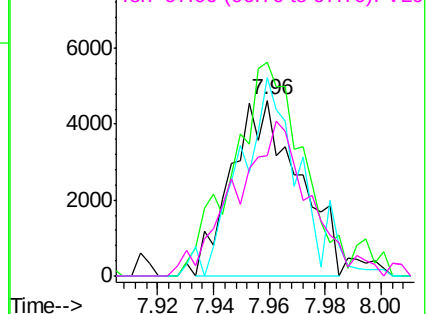
95 121.6 95.7 143.5

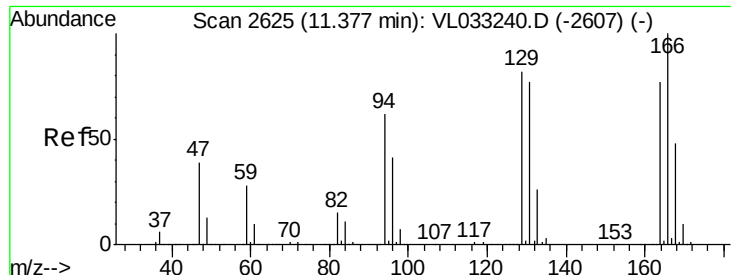
132 108.6 77.4 116.2

97 68.6 62.5 93.7



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





#52

Tetrachloroethene

Concen: 0.091 ppbv m

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

Tot Ion:164 Resp: 8157

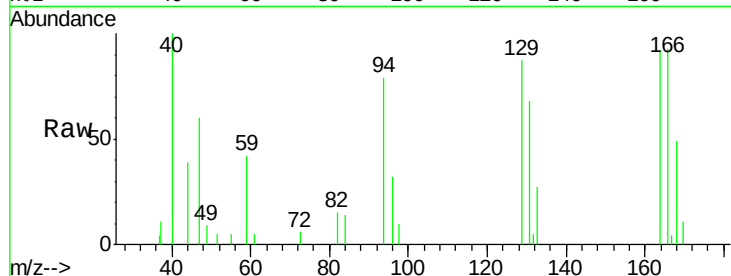
Ion Ratio Lower Upper

164 100

166 100.7 103.3 154.9#

129 94.8 84.4 126.6

131 74.1 79.4 119.0#

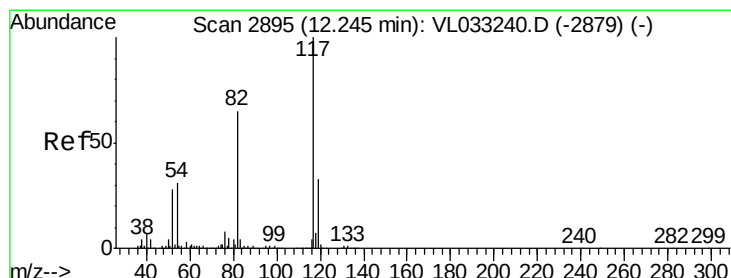
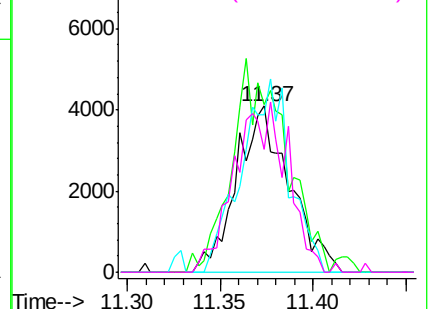
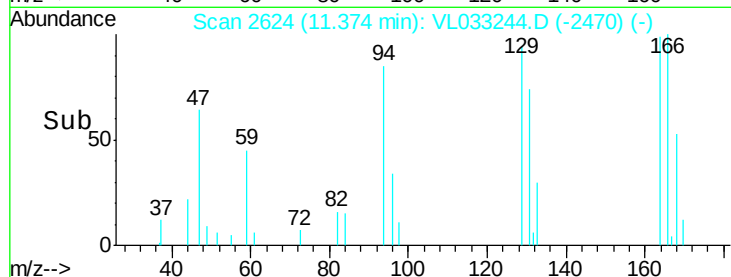


Abundance Ion 163.90 (163.60 to 164.60): V

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: VL033244.D

Acq: 6 Mar 2019 4:33

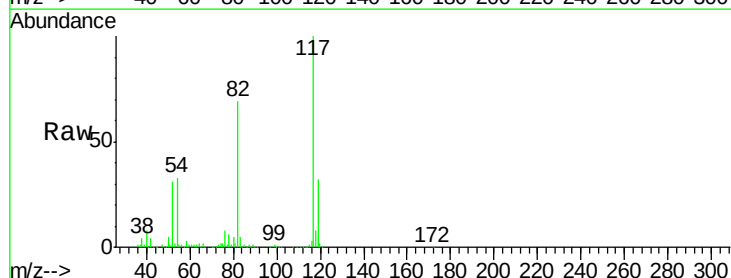
Tgt Ion:117 Resp: 2218022

Ion Ratio Lower Upper

117 100

82 67.9 51.8 77.8

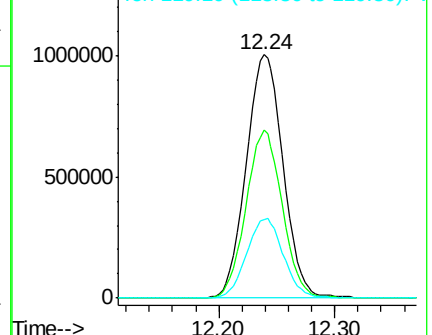
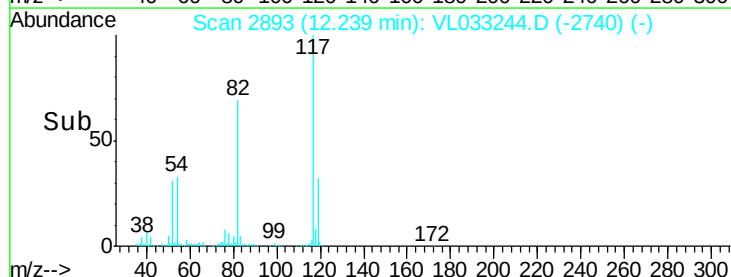
119 32.8 43.6 65.4#

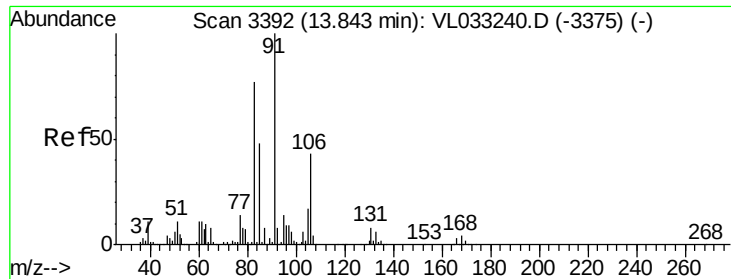


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.078 ppbv m

RT: 13.84 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

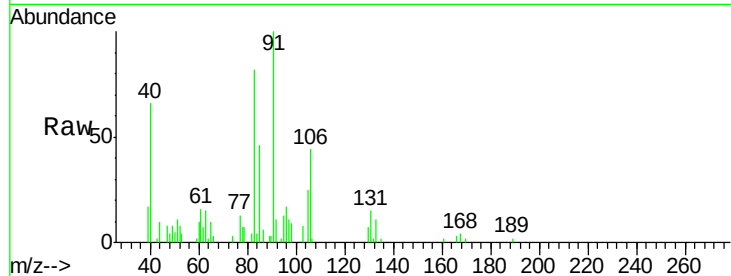
Tot Ion: 83 Resp: 17790

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.0#

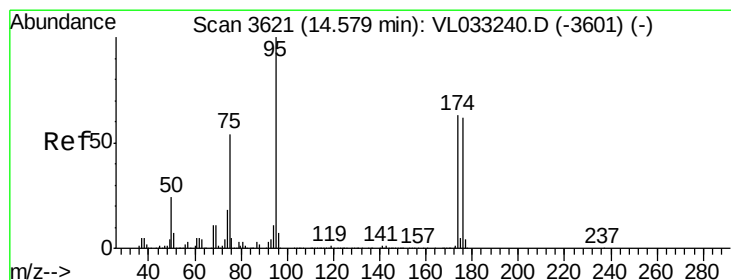
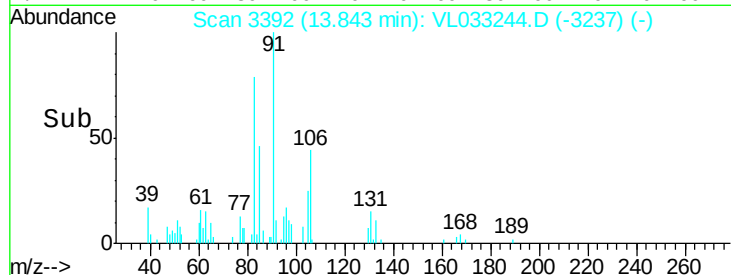
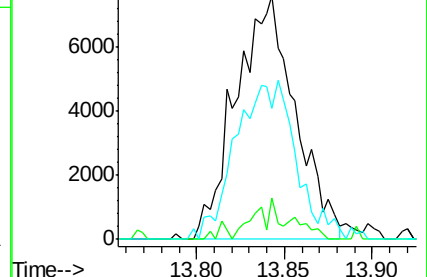
85 0.0 32.6 97.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.172 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033244.D

Acq: 6 Mar 2019 4:33

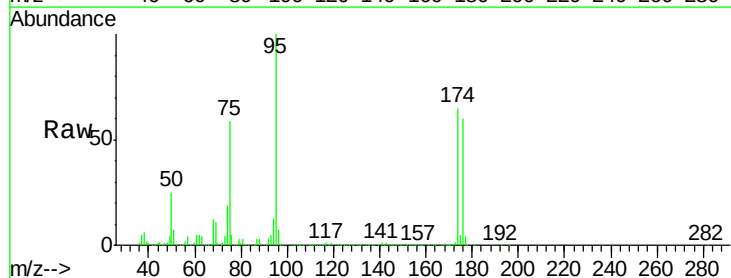
Tgt Ion: 95 Resp: 1736732

Ion Ratio Lower Upper

95 100

174 63.5 51.0 76.4

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

