

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030619\
 Data File : VL033245.D
 Acq On : 6 Mar 2019 5:11
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 05:50:22 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	1008060	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2258146	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2216066	10.00	ppbv	0.00

System Monitoring Compounds

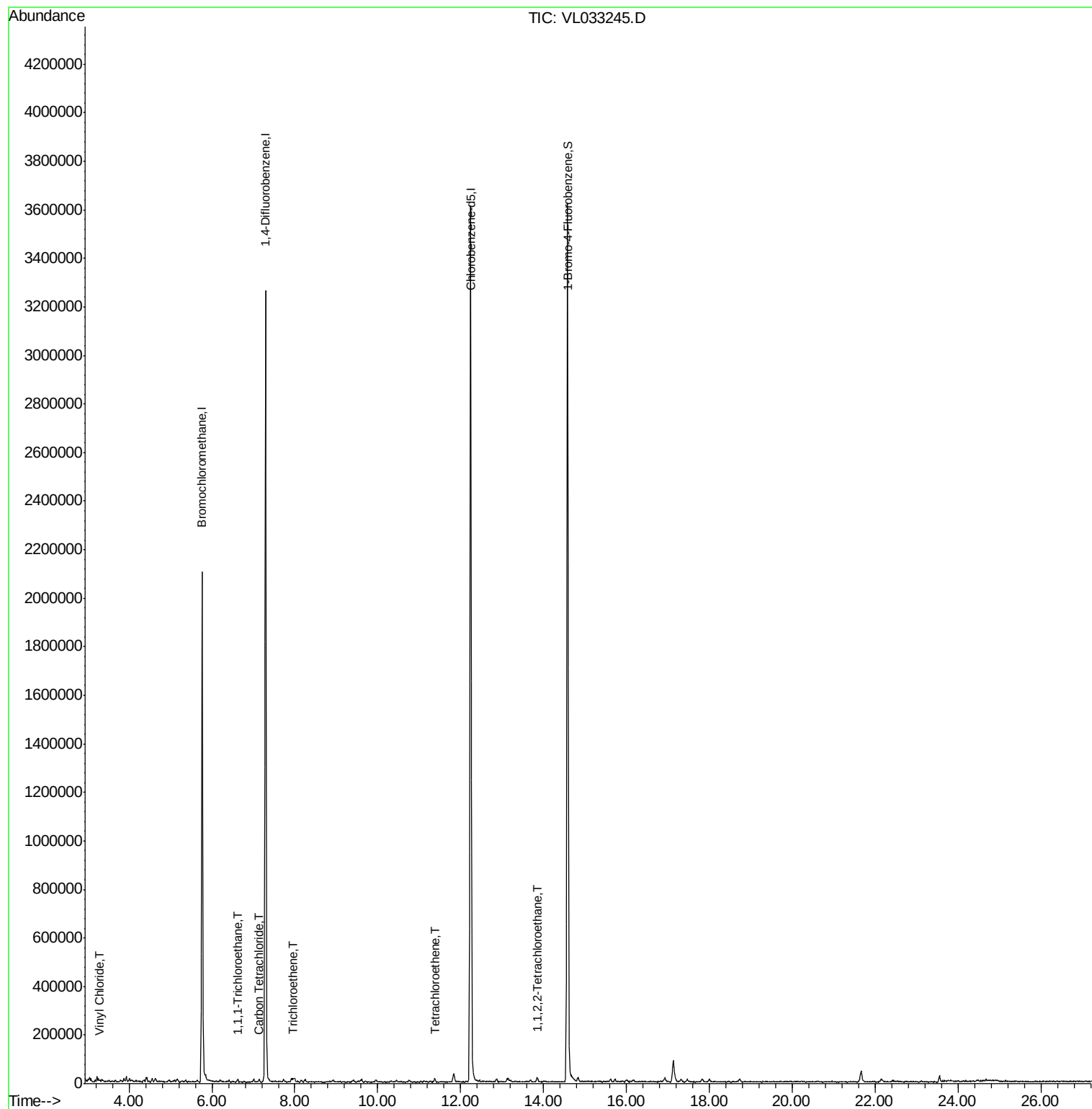
68) 1-Bromo-4-Fluorobenzene	14.58	95	1727333	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

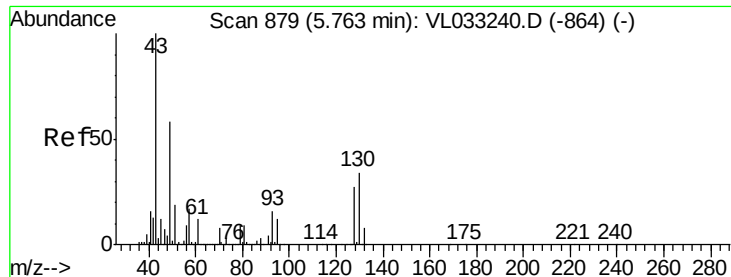
Target Compounds					Ovalue
5) Vinyl Chloride	3.30	62	3019m	0.046	ppbv
32) 1,1,1-Trichloroethane	6.61	97	5822m	0.029	ppbv
35) Carbon Tetrachloride	7.14	117	5659m	0.032	ppbv
38) Trichloroethene	7.96	130	2088m	0.021	ppbv
52) Tetrachloroethene	11.37	164	2434m	0.028	ppbv
63) 1,1,2,2-Tetrachloroethane	13.84	83	6676m	0.029	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: VL033245.D

Acq: 6 Mar 2019 5:11

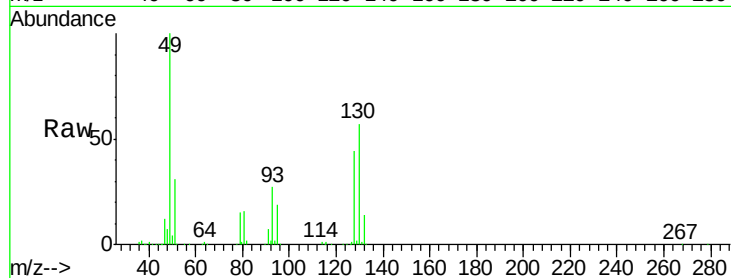
Tot Ion: 49 Resp: 1008060

Ion Ratio Lower Upper

49 100

128 45.6 22.9 68.8

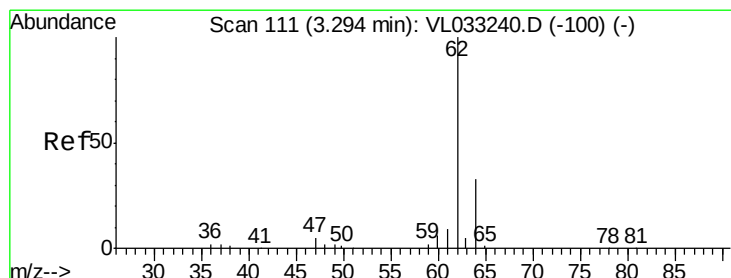
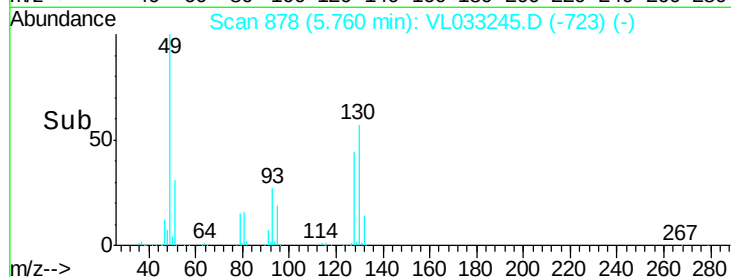
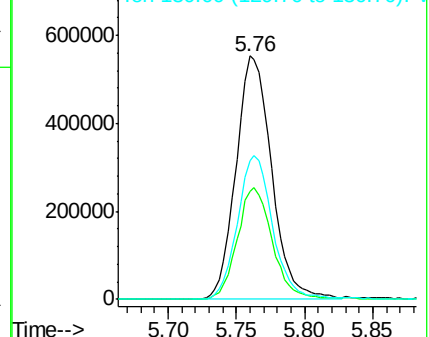
130 58.3 29.3 88.0



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: 0.046 ppbv m

RT: 3.30 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL033245.D

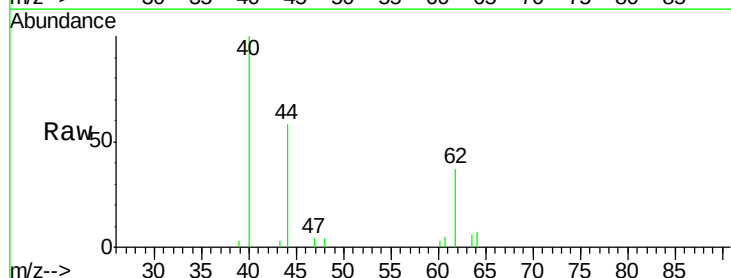
Acq: 6 Mar 2019 5:11

Tgt Ion: 62 Resp: 3019

Ion Ratio Lower Upper

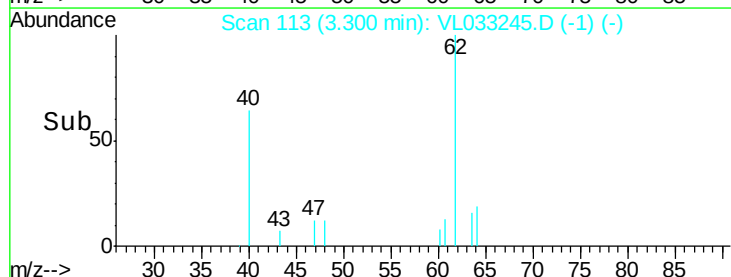
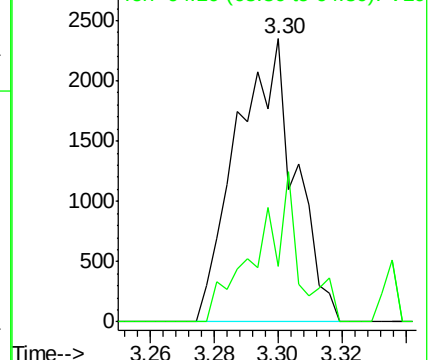
62 100

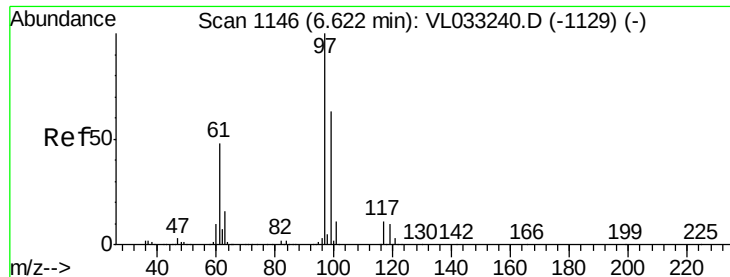
64 19.5 26.2 39.2#



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: 0.029 ppbv m

RT: 6.61 min Scan# 1143

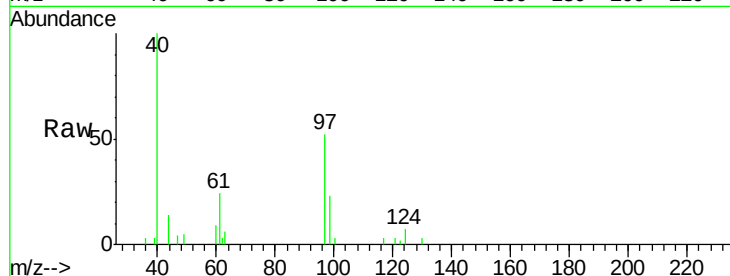
Delta R.T. -0.01 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

Tot Ion: 97 Resp: 5822

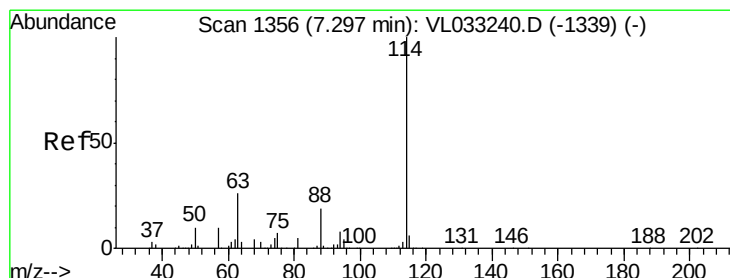
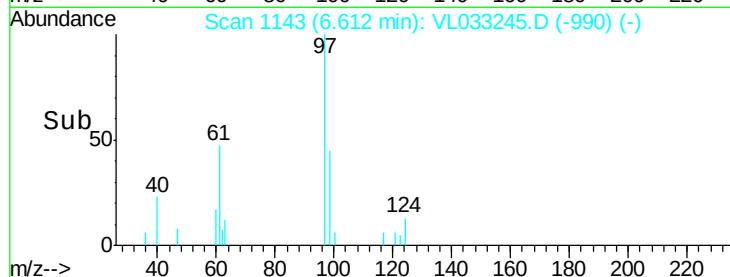
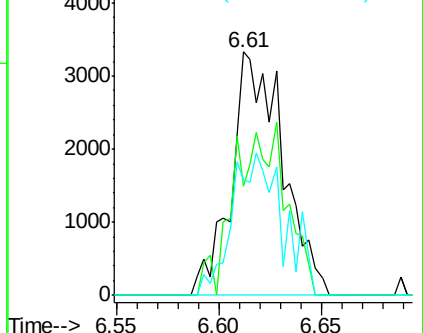
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	58.2	40.1	60.1



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

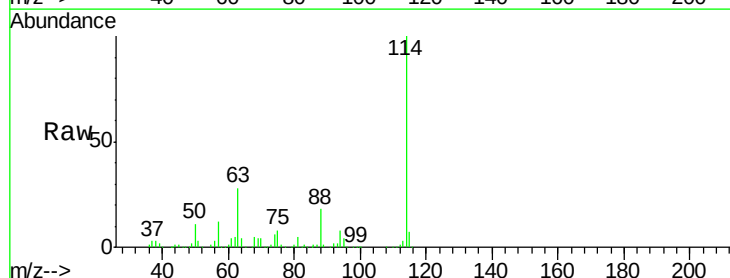
Delta R.T. -0.01 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

Tgt Ion: 114 Resp: 2258146

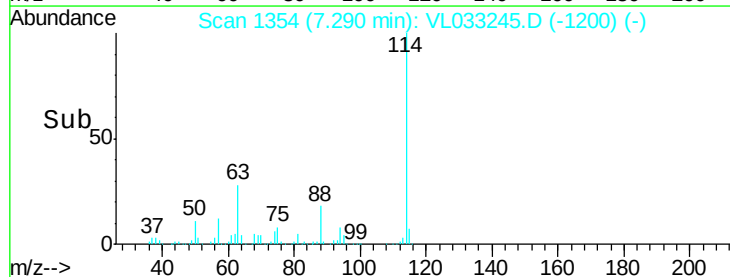
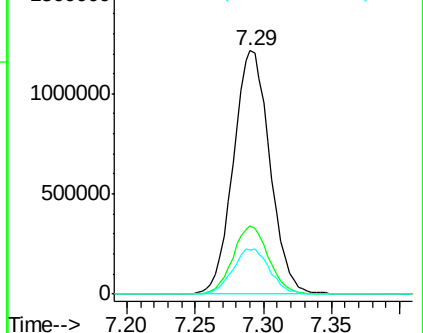
Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.0	33.0
88	18.6	15.0	22.4

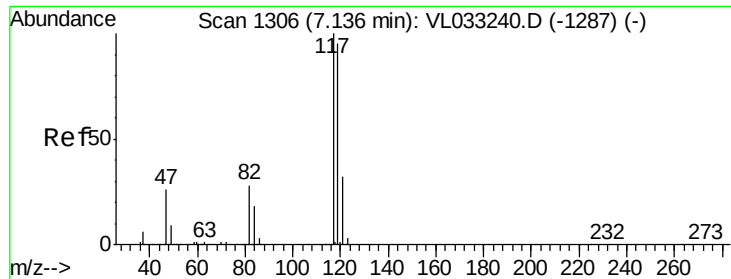


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.032 ppbv m

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

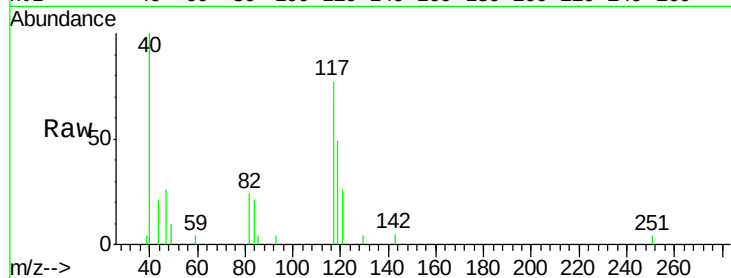
Tot Ion:117 Resp: 5659

Ion Ratio Lower Upper

117 100

119 63.1 75.8 113.6#

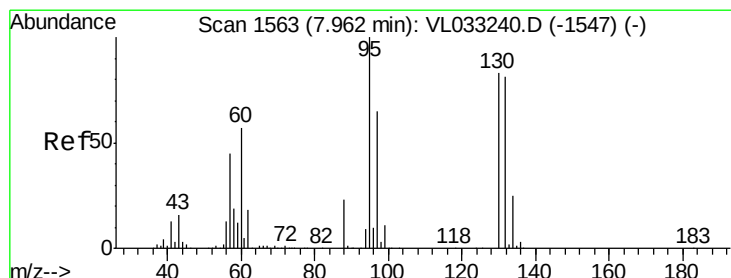
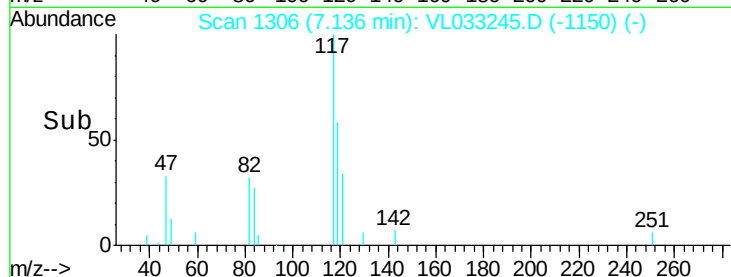
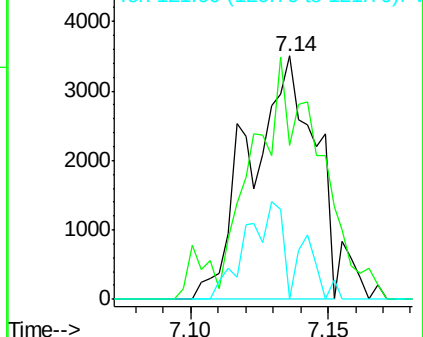
121 0.0 25.6 38.4#



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: 0.021 ppbv m

RT: 7.96 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

Tgt Ion:130 Resp: 2088

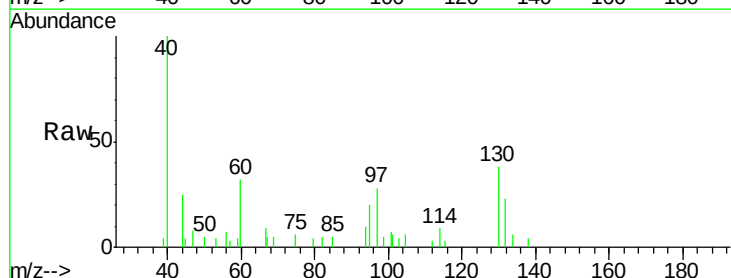
Ion Ratio Lower Upper

130 100

95 52.0 95.7 143.5#

132 60.5 77.4 116.2#

97 72.9 62.5 93.7

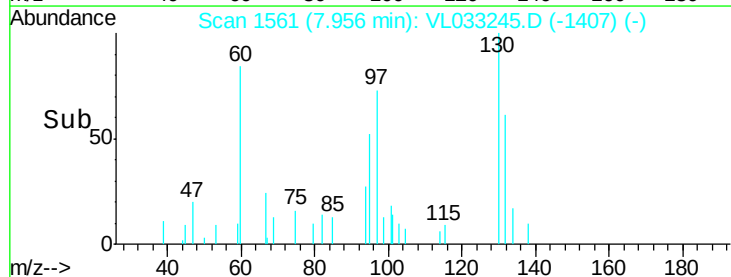
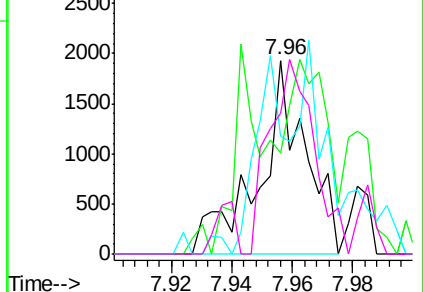


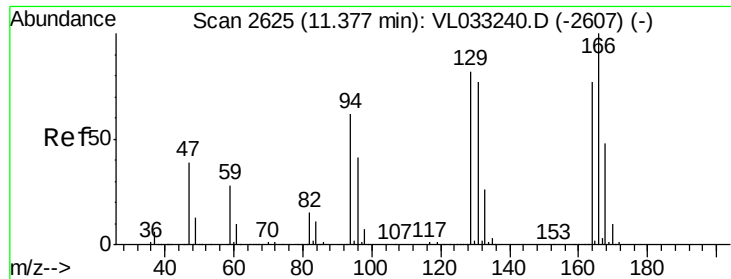
Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.028 ppbv m

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

Tot Ion:164 Resp: 2434

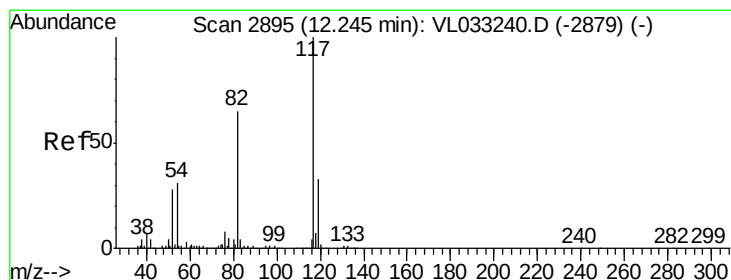
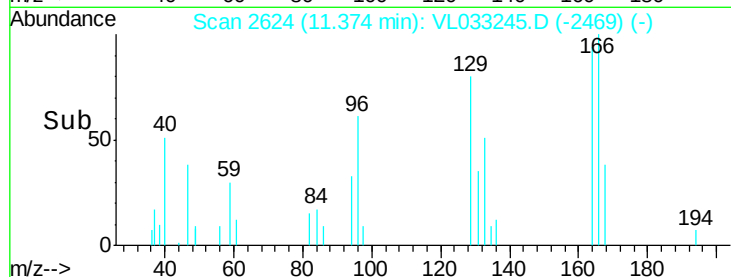
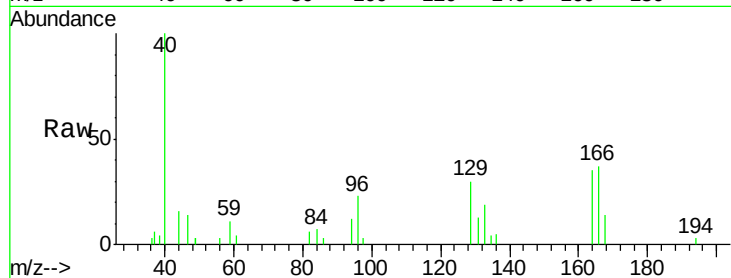
Ion Ratio Lower Upper

164 100

166 106.4 103.3 154.9

129 85.3 84.4 126.6

131 37.1 79.4 119.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

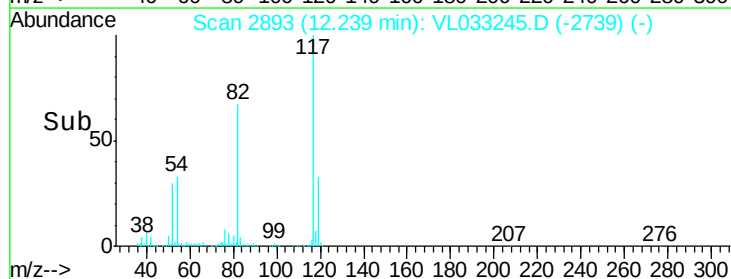
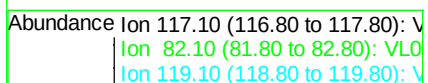
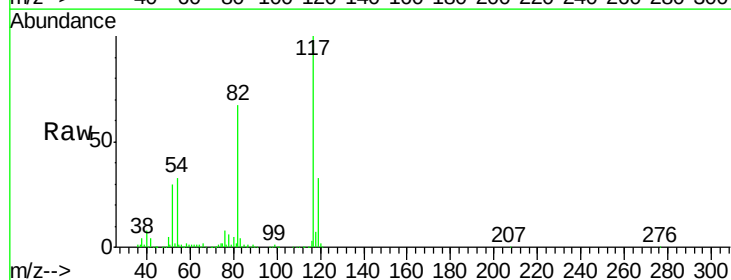
Tgt Ion:117 Resp: 2216066

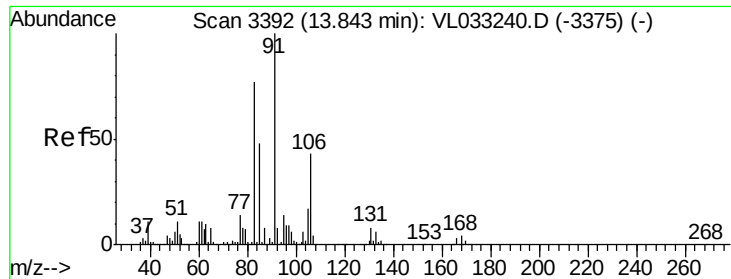
Ion Ratio Lower Upper

117 100

82 68.3 51.8 77.8

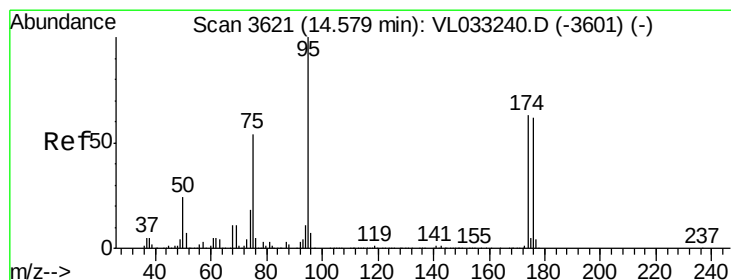
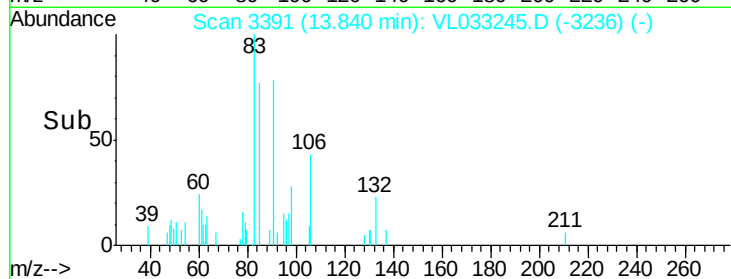
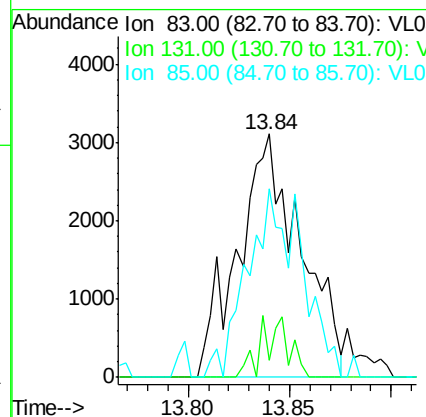
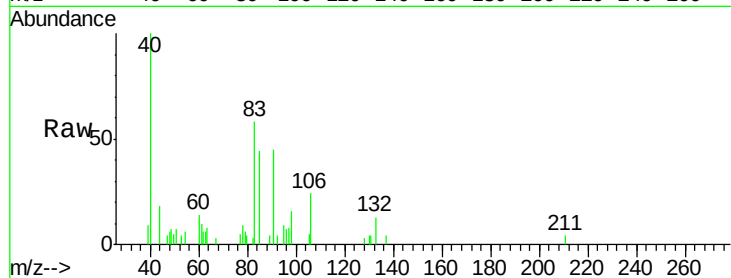
119 32.4 43.6 65.4#





#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.029 ppbv m
 RT: 13.84 min Scan# 3391
 Delta R.T. -0.00 min
 Lab File: VL033245.D
 Acq: 6 Mar 2019 5:11

Tot Ion: 83 Resp: 6676
 Ion Ratio Lower Upper
 83 100
 131 10.8 4.7 14.0
 85 70.9 32.6 97.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.126 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033245.D
 Acq: 6 Mar 2019 5:11

Tgt Ion: 95 Resp: 1727333
 Ion Ratio Lower Upper
 95 100
 174 63.1 51.0 76.4
 175 4.6 3.8 5.6

