

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041719\
 Data File : VL033604.D
 Acq On : 17 Apr 2019 16:15
 Operator : SY/AP
 Sample : K2241-14 0.06 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Quant Time: Apr 18 06:04:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	791470	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1896060	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1900812	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1541118	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

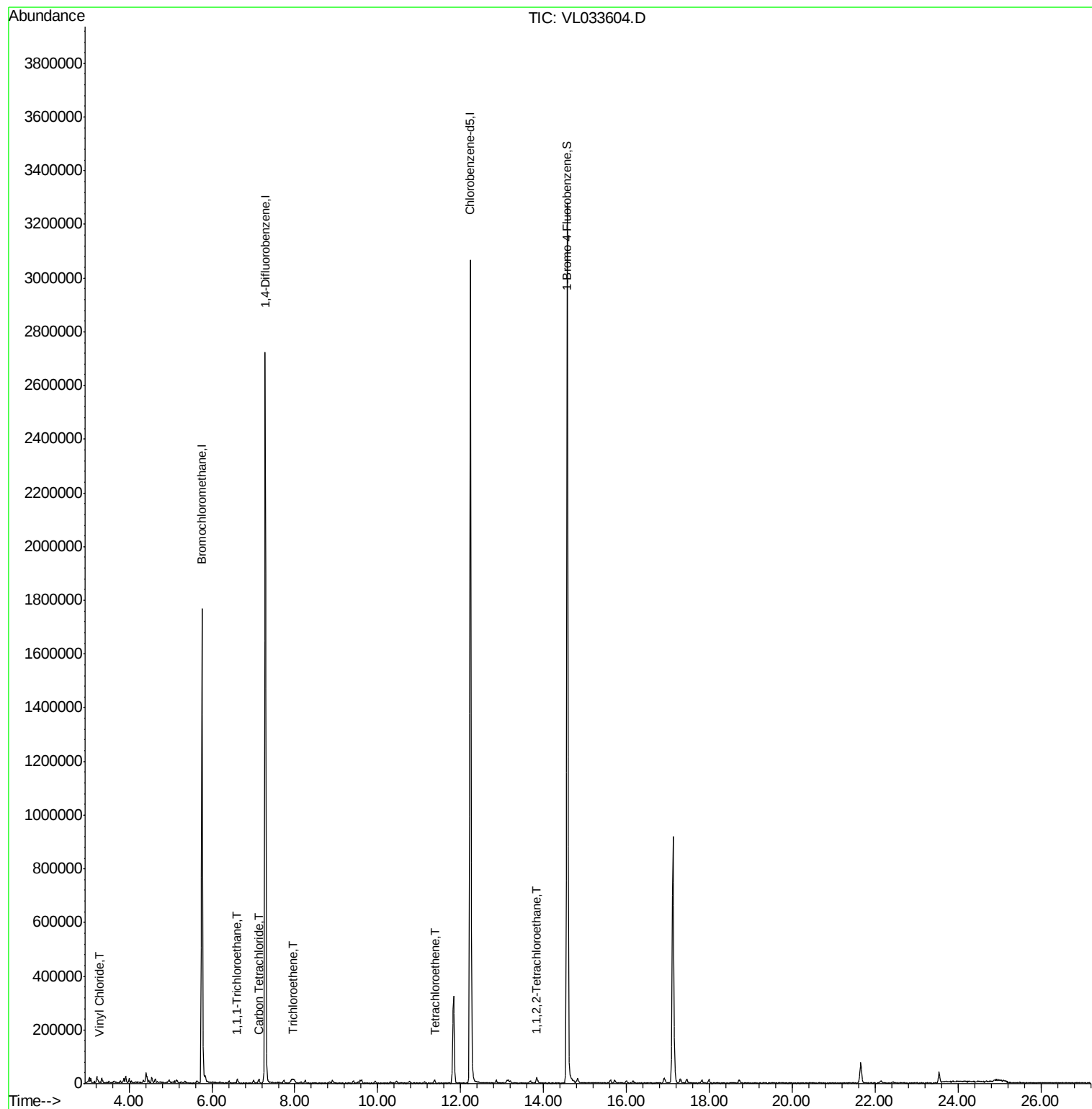
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	3466	0.073	ppbv #	77
32) 1,1,1-Trichloroethane	6.61	97	7853m	0.061	ppbv	
35) Carbon Tetrachloride	7.13	117	6106	0.045	ppbv #	62
38) Trichloroethene	7.95	130	3350m	0.056	ppbv	
52) Tetrachloroethene	11.36	164	2903m	0.048	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.82	83	8984m	0.056	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# 877

Delta R.T. -0.01 min

Lab File: VL033604.D

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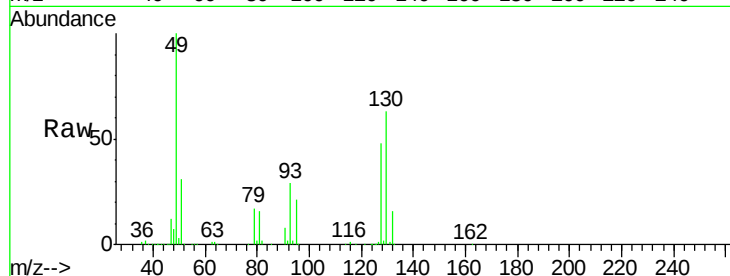
Tot Ion: 49 Resp: 791470

Ion Ratio Lower Upper

49 100

128 49.5 24.0 72.0

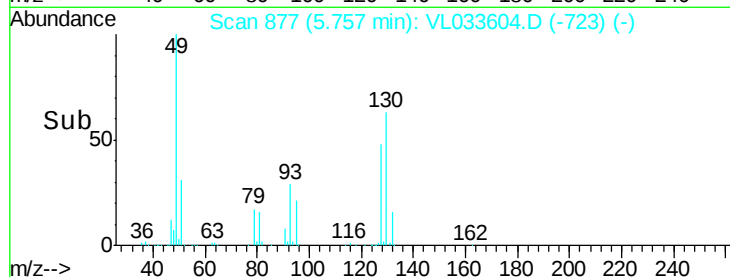
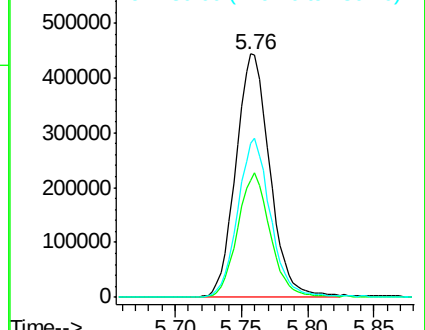
130 63.6 31.2 93.6



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: 0.073 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033604.D

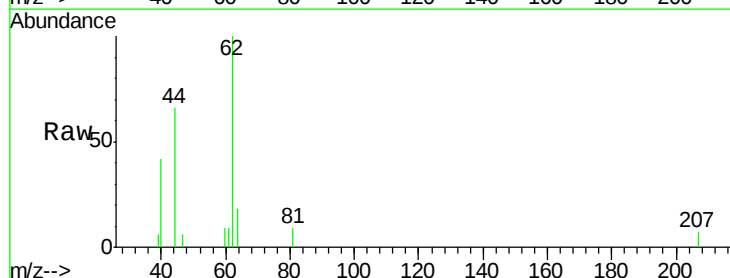
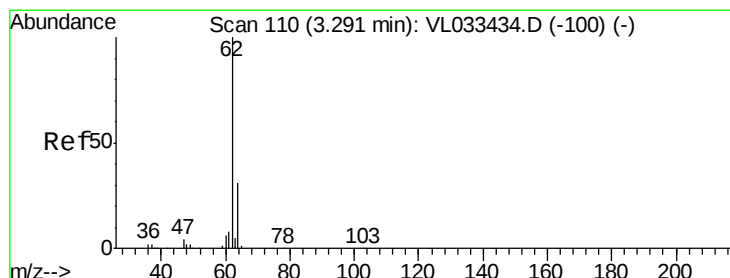
Acq: 17 Apr 2019 16:15

Tgt Ion: 62 Resp: 3466

Ion Ratio Lower Upper

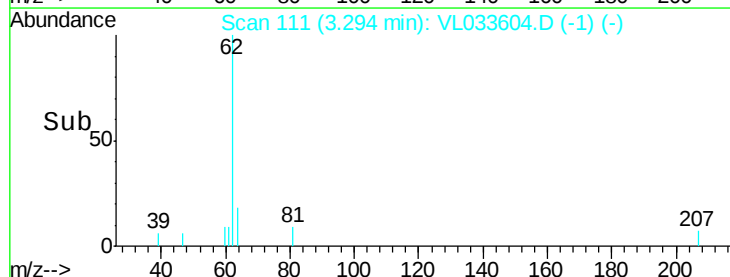
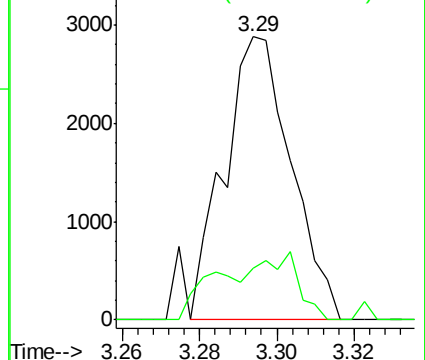
62 100

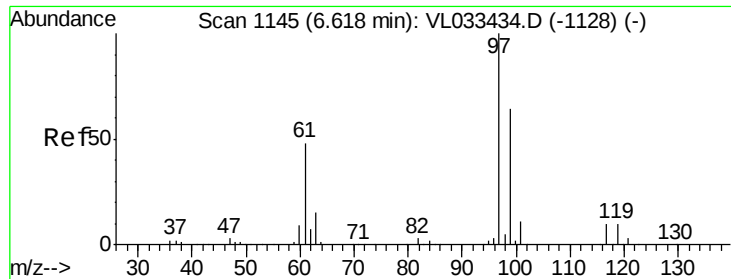
64 18.2 24.9 37.3#



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: 0.061 ppbv m

RT: 6.61 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VL033604.D

Acq: 17 Apr 2019 16:15

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

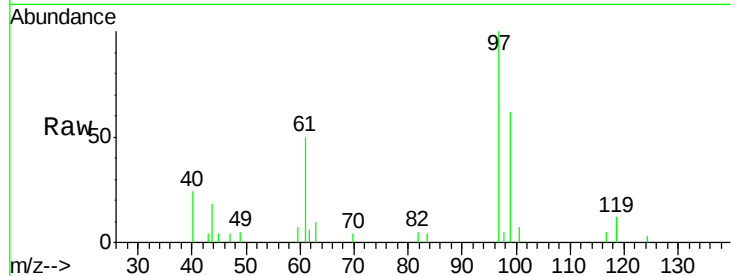
Tot Ion: 97 Resp: 7853

Ion Ratio Lower Upper

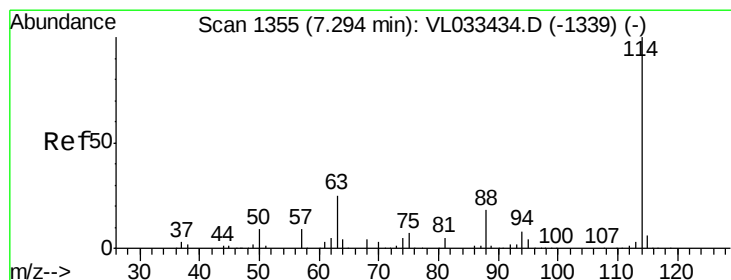
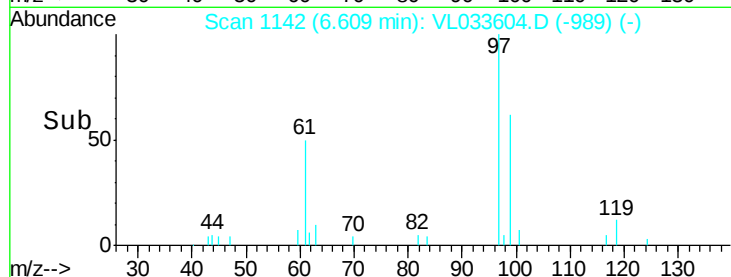
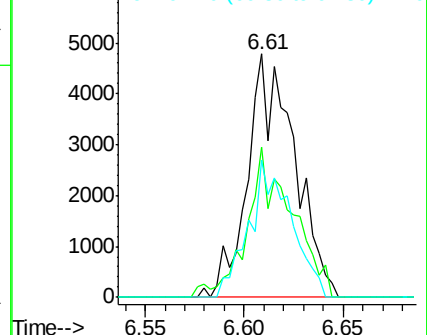
97 100

99 59.1 51.5 77.3

61 50.4 38.8 58.2



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# 1353

Delta R.T. -0.01 min

Lab File: VL033604.D

Acq: 17 Apr 2019 16:15

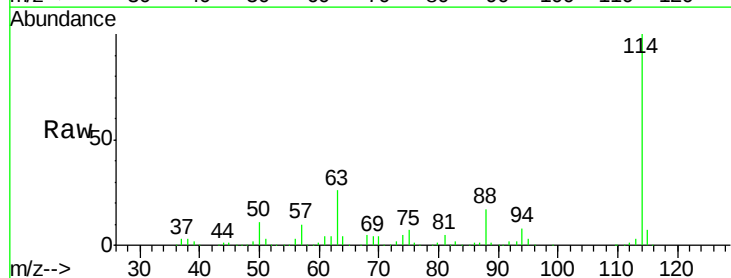
Tgt Ion: 114 Resp: 1896060

Ion Ratio Lower Upper

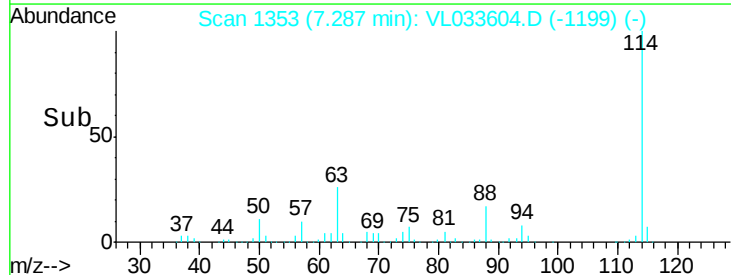
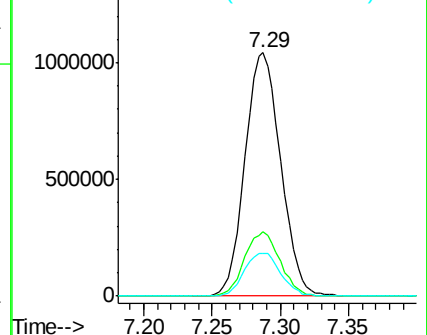
114 100

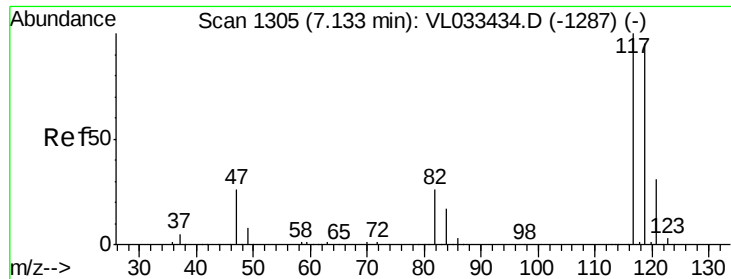
63 26.4 21.5 32.3

88 18.1 14.5 21.7



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: 0.045 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033604.D

Acq: 17 Apr 2019 16:15

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

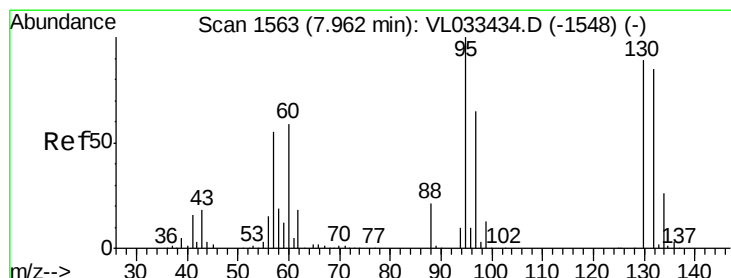
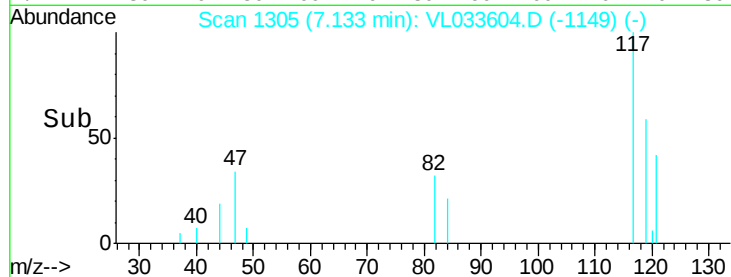
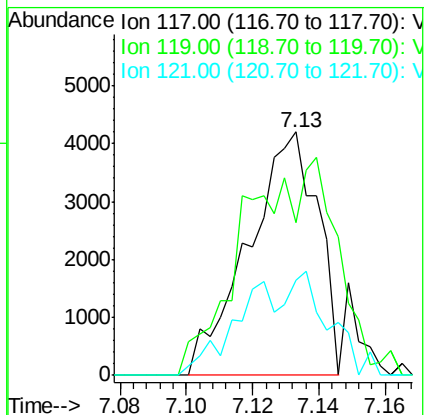
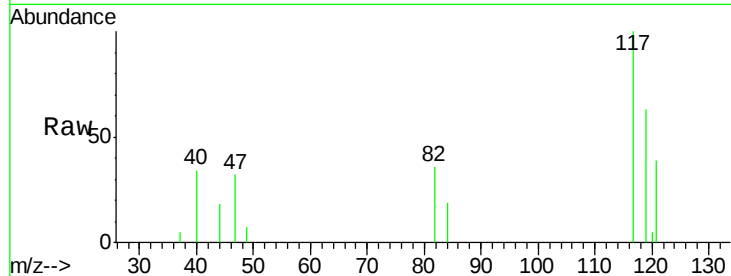
Tot Ion:117 Resp: 6106

Ion Ratio Lower Upper

117 100

119 48.5 75.8 113.8#

121 35.5 24.7 37.1



#38

Trichloroethene

Concen: 0.056 ppbv m

RT: 7.95 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL033604.D

Acq: 17 Apr 2019 16:15

Tgt Ion:130 Resp: 3350

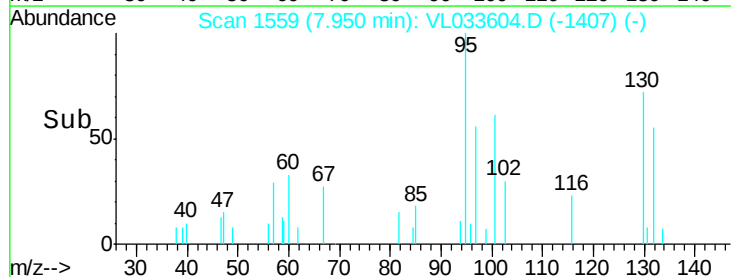
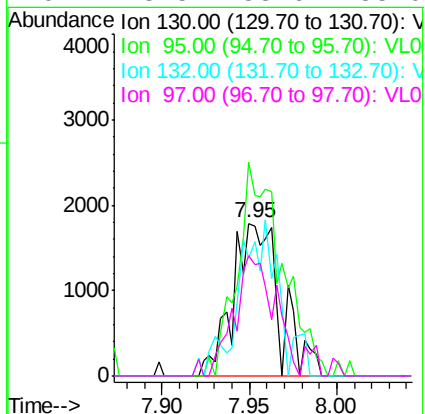
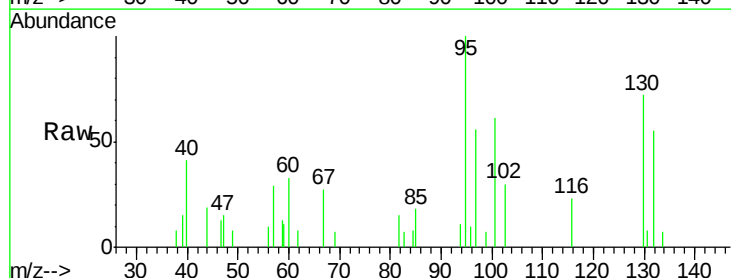
Ion Ratio Lower Upper

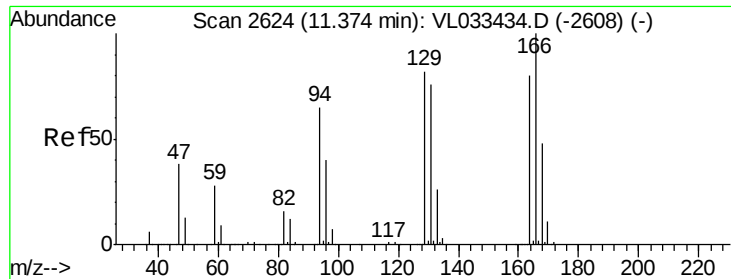
130 100

95 139.7 89.8 134.8#

132 76.7 76.6 115.0

97 78.5 58.6 88.0





#52

Tetrachloroethene

Concen: 0.048 ppbv m

RT: 11.36 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL033604.D

Acq: 17 Apr 2019 16:15

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:164 Resp: 2903

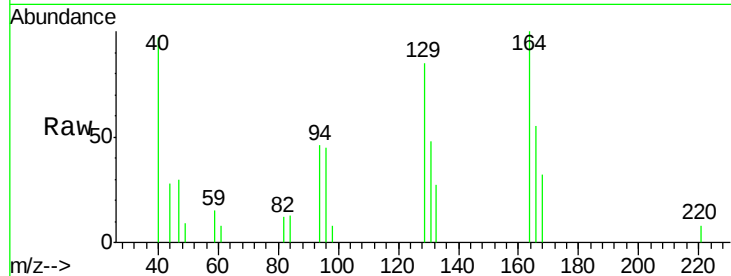
Ion Ratio Lower Upper

164 100

166 55.5 99.5 149.3#

129 85.0 81.4 122.2

131 48.0 75.6 113.4#

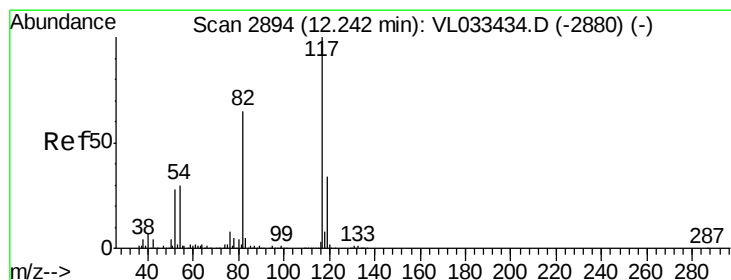
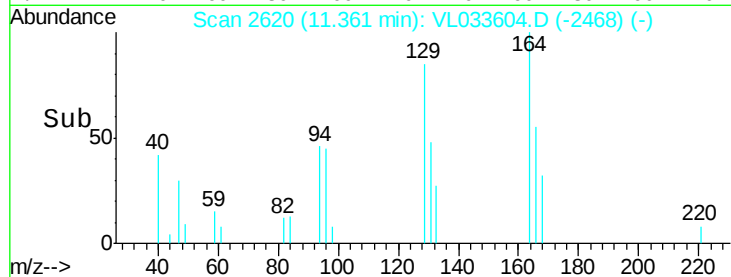
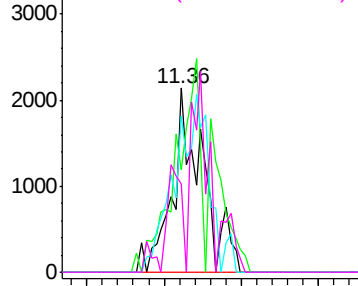


Abundance Ion 163.90 (163.60 to 164.60): V

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# 2892

Delta R.T. -0.01 min

Lab File: VL033604.D

Acq: 17 Apr 2019 16:15

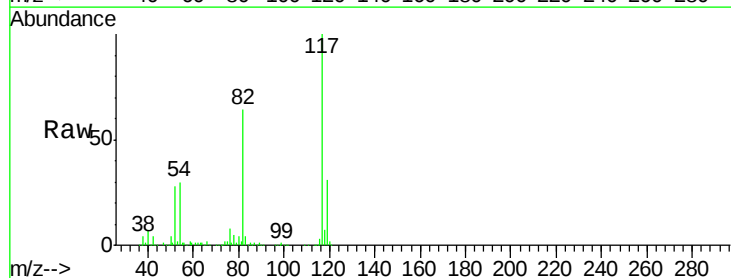
Tgt Ion:117 Resp: 1900812

Ion Ratio Lower Upper

117 100

82 66.9 51.5 77.3

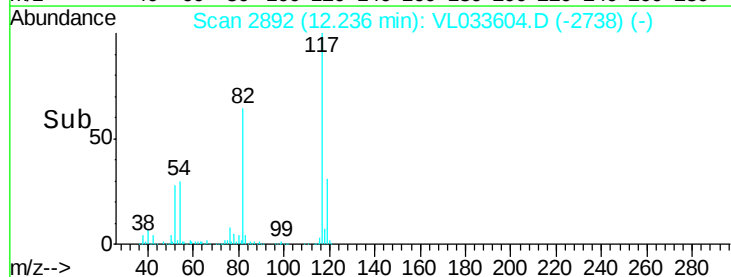
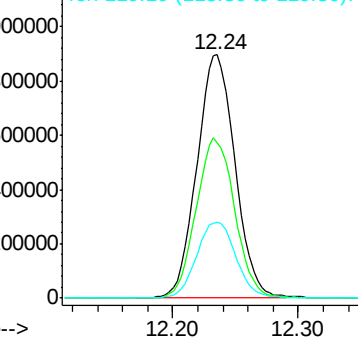
119 32.3 25.5 38.3

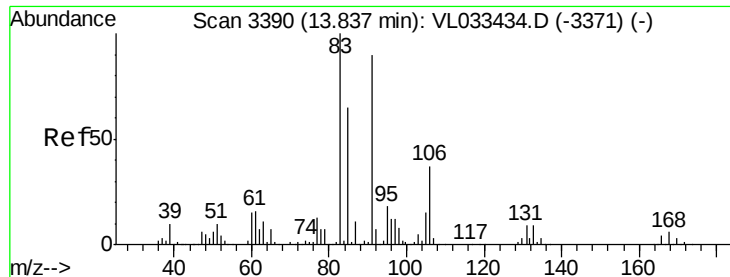


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

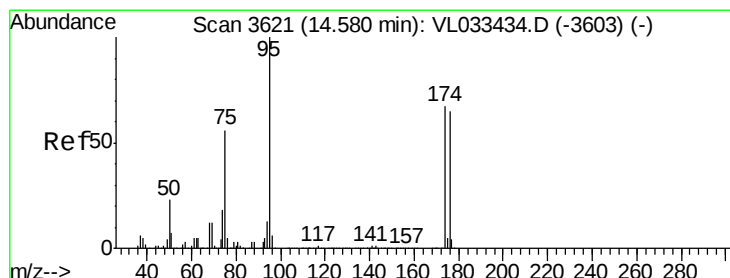
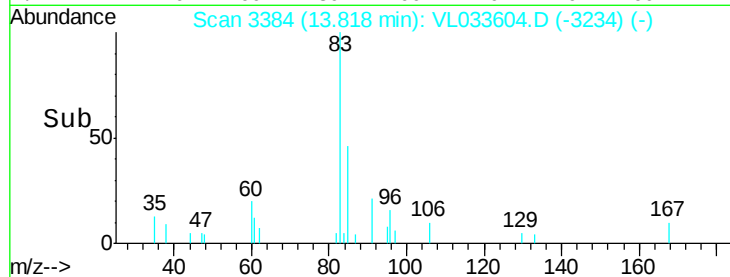
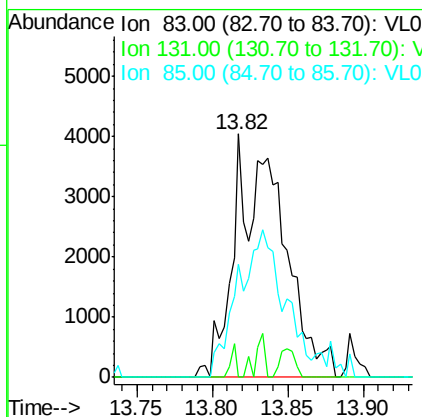
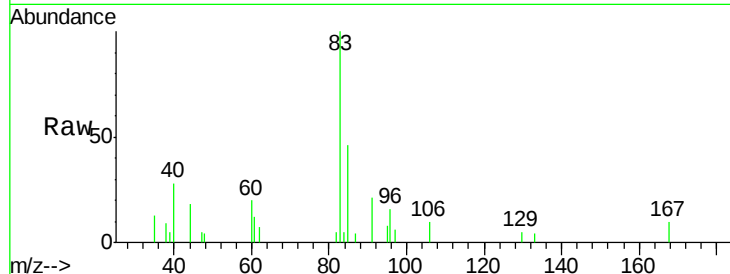




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.056 ppbv m
 RT: 13.82 min Scan# 3384
 Delta R.T. -0.02 min
 Lab File: VL033604.D
 Acq: 17 Apr 2019 16:15

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion: 83 Resp: 8984
 Ion Ratio Lower Upper
 83 100
 131 8.6 4.7 14.0
 85 62.7 32.7 98.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.342 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033604.D
 Acq: 17 Apr 2019 16:15

Tgt Ion: 95 Resp: 1541118
 Ion Ratio Lower Upper
 95 100
 174 66.7 52.9 79.3
 175 4.7 3.8 5.6

