

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026210.D
 Acq On : 20 Oct 2015 13:10
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Oct 20 14:20:21 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 12:43:06 2015
 QLast Update : Tue Oct 20 12:43:06 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	557419	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.30	114	1641175	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.71	117	1962061	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.26	95	1558294	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

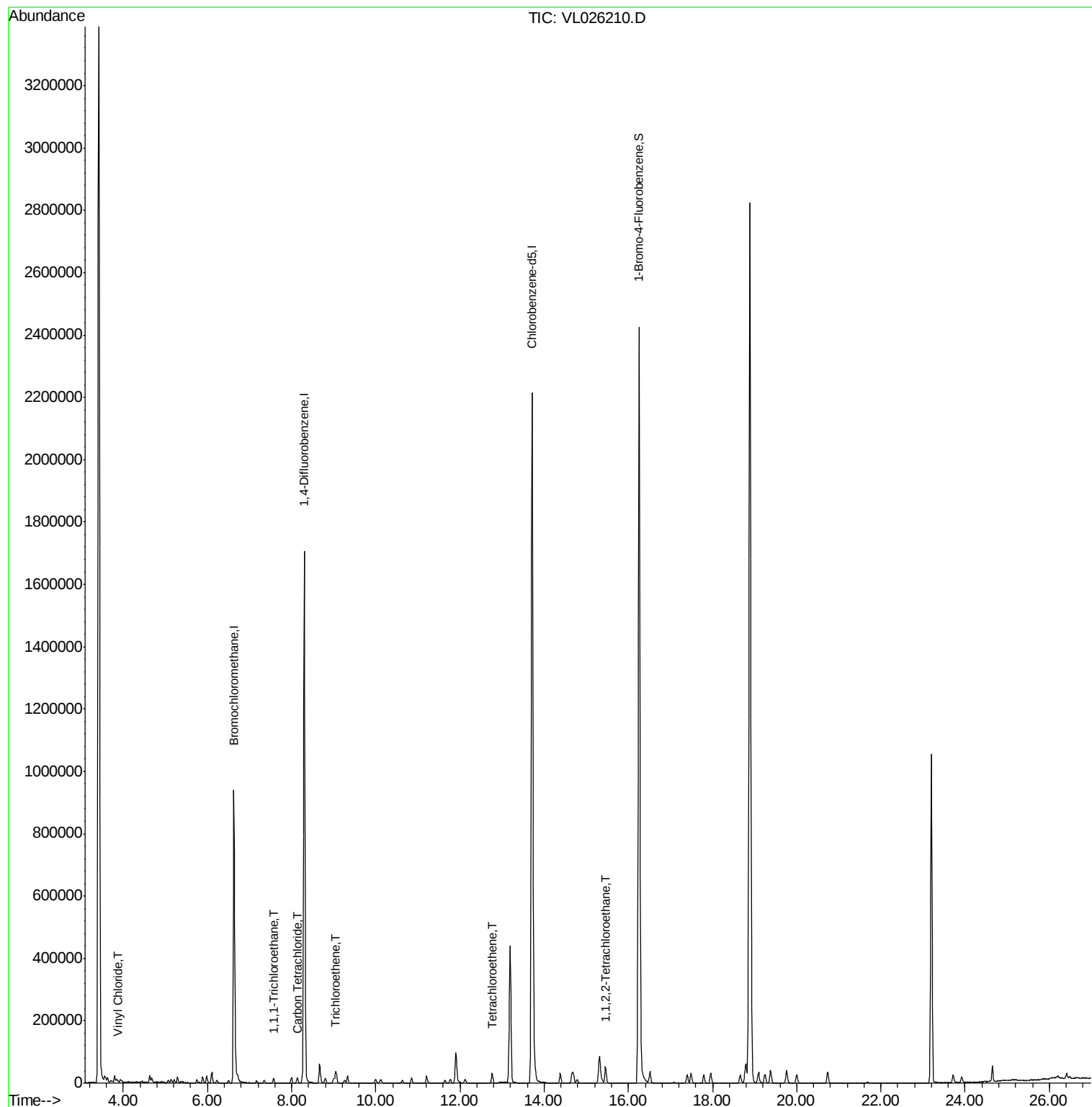
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.87	62	4037	0.11	ppbv	97
32) 1,1,1-Trichloroethane	7.57	97	12529	0.13	ppbv	98
35) Carbon Tetrachloride	8.13	117	13985	0.13	ppbv	97
38) Trichloroethene	9.04	130	9247	0.13	ppbv	93
52) Tetrachloroethene	12.77	164	11145	0.14	ppbv	95
63) 1,1,2,2-Tetrachloroethane	15.46	83	18843	0.11	ppbv	98

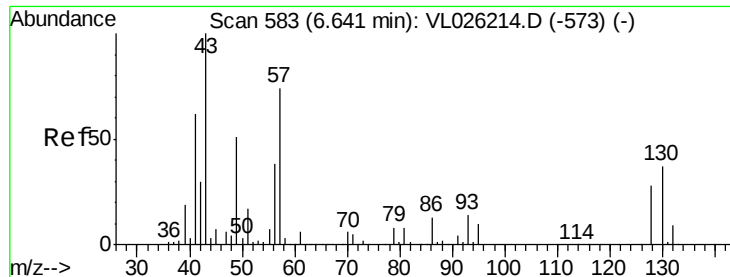
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
Data File : VL026210.D
Acq On : 20 Oct 2015 13:10
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Oct 20 14:20:21 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 12:43:06 2015
QLast Update : Tue Oct 20 12:43:06 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 581

Delta R.T. 0.00 min

Lab File: VL026210.D

Acq: 20 Oct 2015 13:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

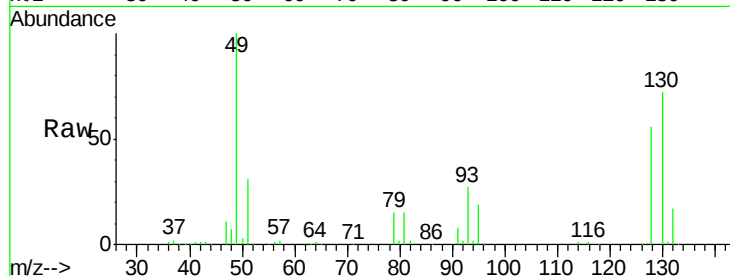
Tot Ion: 49 Resp: 557419

Ion Ratio Lower Upper

49 100

128 57.5 28.1 84.3

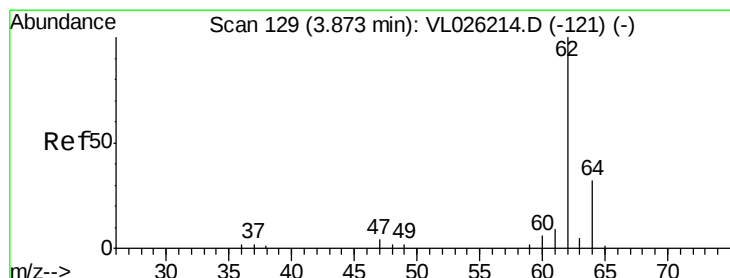
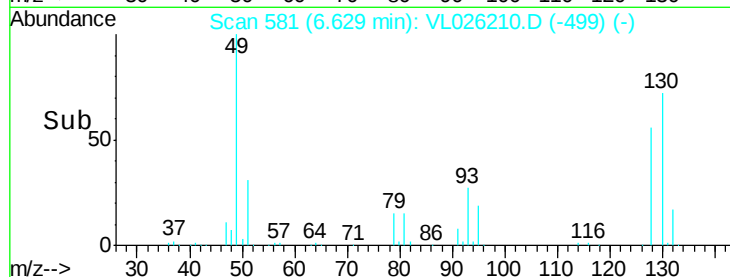
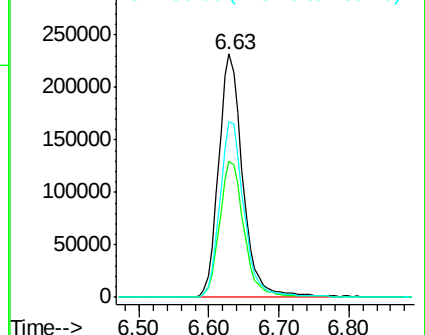
130 73.2 36.2 108.6



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: 0.11 ppbv

RT: 3.87 min Scan# 129

Delta R.T. 0.01 min

Lab File: VL026210.D

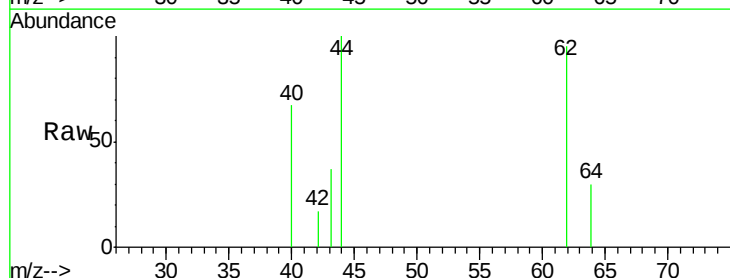
Acq: 20 Oct 2015 13:10

Tgt Ion: 62 Resp: 4037

Ion Ratio Lower Upper

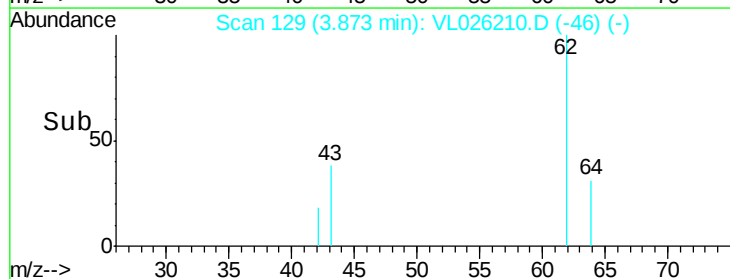
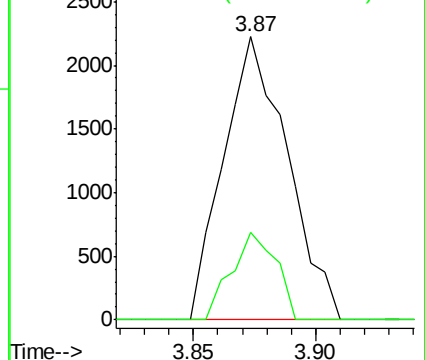
62 100

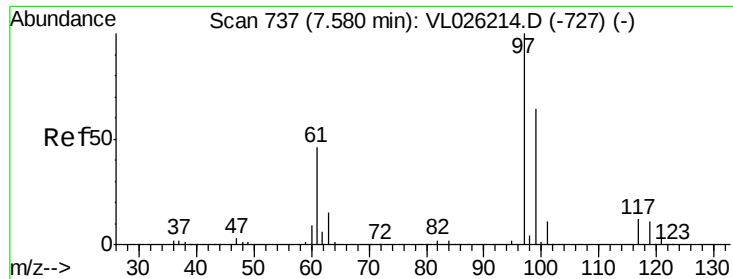
64 31.0 26.3 39.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

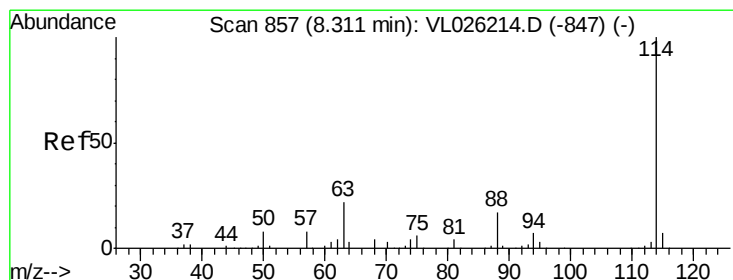
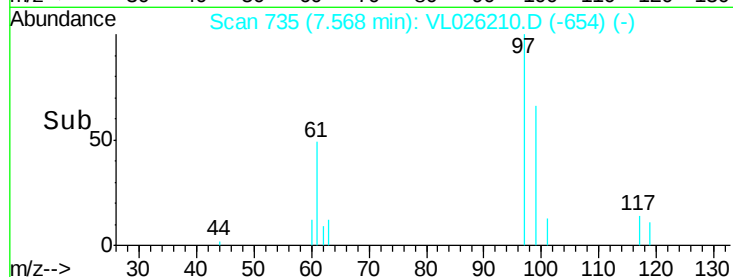
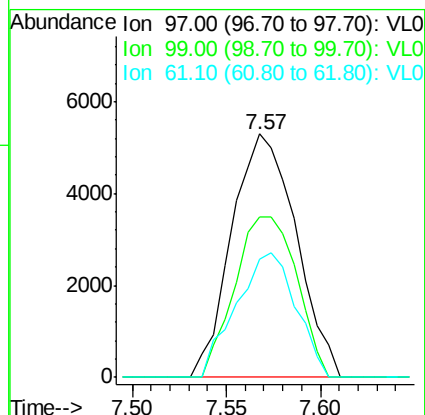
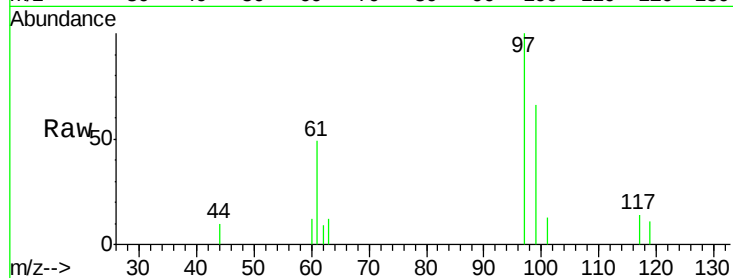




#32
 1,1,1-Trichloroethane
 Concen: 0.13 ppbv
 RT: 7.57 min Scan# 735
 Delta R.T. -0.01 min
 Lab File: VL026210.D
 Acq: 20 Oct 2015 13:10

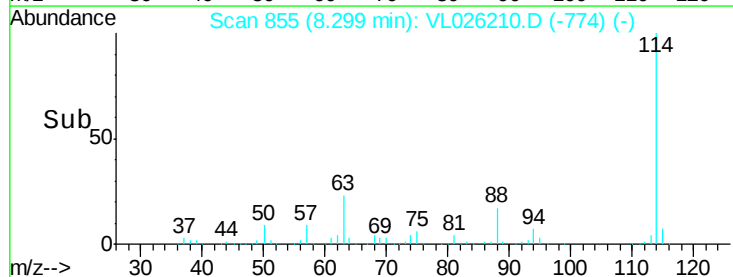
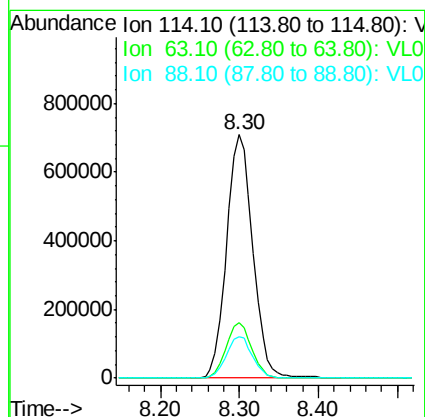
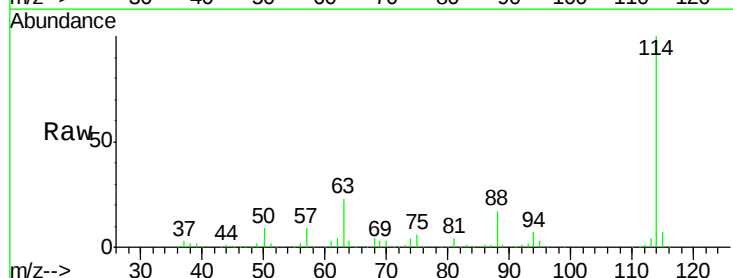
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

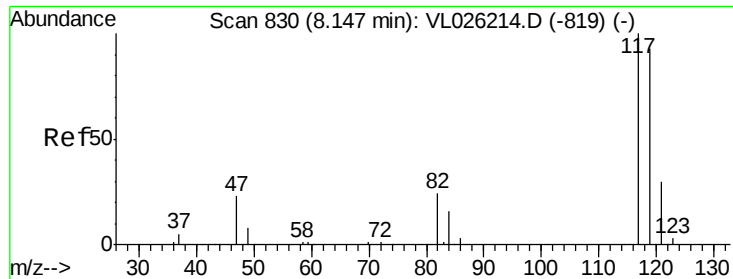
Tot Ion: 97 Resp: 12529
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.4 77.2
 61 47.6 36.0 54.0



#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.30 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: VL026210.D
 Acq: 20 Oct 2015 13:10

Tgt Ion: 114 Resp: 1641175
 Ion Ratio Lower Upper
 114 100
 63 22.4 17.9 26.9
 88 17.1 13.6 20.4





#35

Carbon Tetrachloride

Concen: 0.13 ppbv

RT: 8.13 min Scan# 828

Delta R.T. 0.00 min

Lab File: VL026210.D

Acq: 20 Oct 2015 13:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

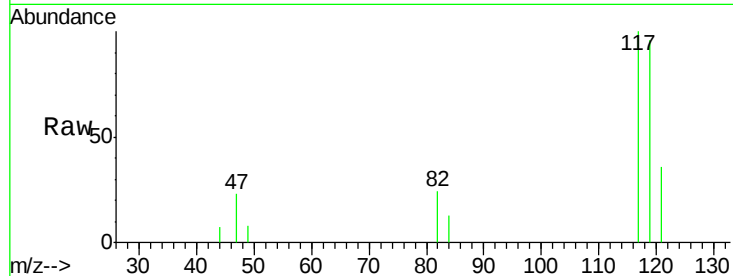
Tot Ion:117 Resp: 13985

Ion Ratio Lower Upper

117 100

119 96.4 78.3 117.5

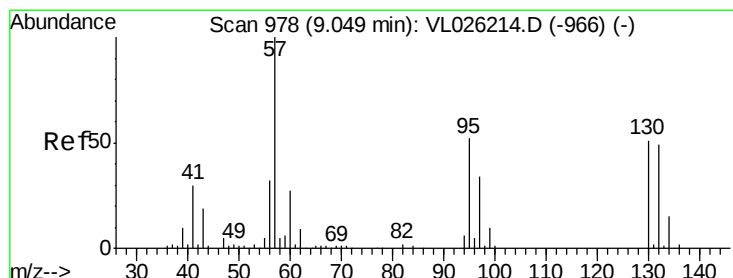
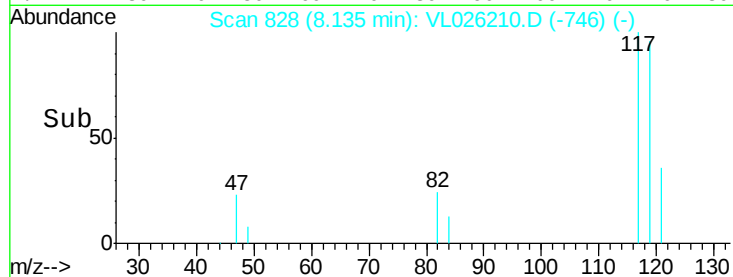
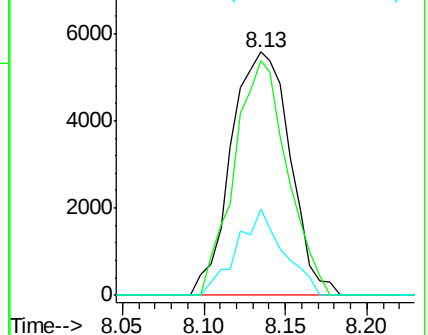
121 35.5 25.0 37.6



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: 0.13 ppbv

RT: 9.04 min Scan# 977

Delta R.T. 0.01 min

Lab File: VL026210.D

Acq: 20 Oct 2015 13:10

Tgt Ion:130 Resp: 9247

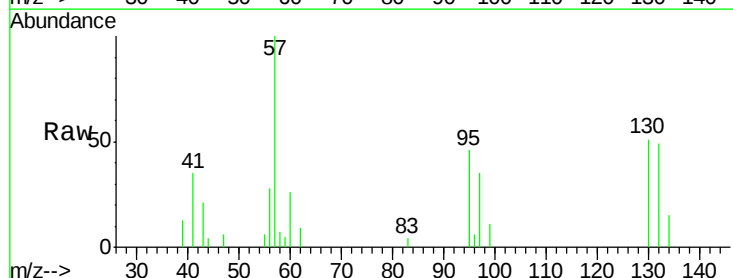
Ion Ratio Lower Upper

130 100

95 90.5 84.2 126.2

132 96.3 78.5 117.7

97 68.2 53.7 80.5

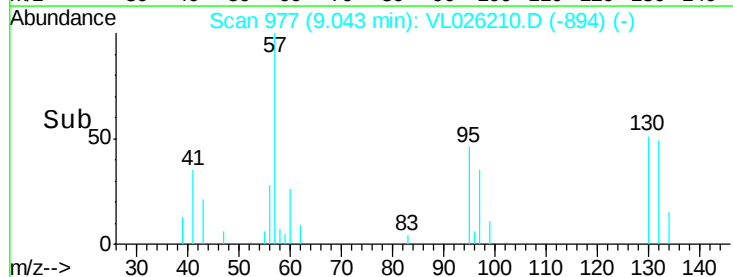
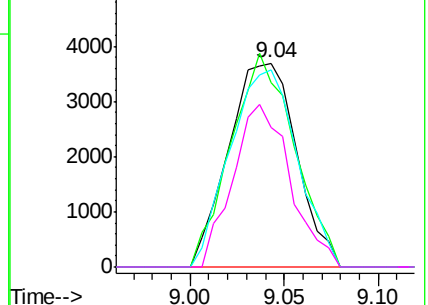


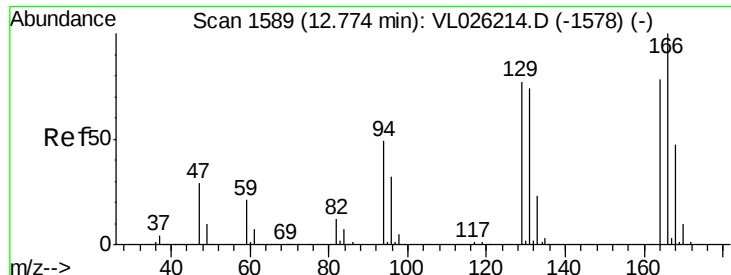
Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.14 ppbv

RT: 12.77 min Scan# 1588

Delta R.T. 0.01 min

Lab File: VL026210.D

Acq: 20 Oct 2015 13:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 11145

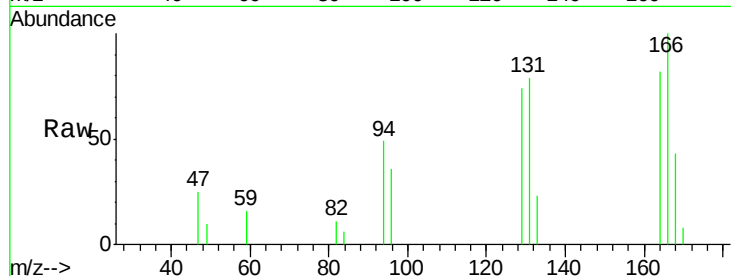
Ion Ratio Lower Upper

164 100

166 122.1 100.9 151.3

129 89.9 79.7 119.5

131 96.1 75.5 113.3

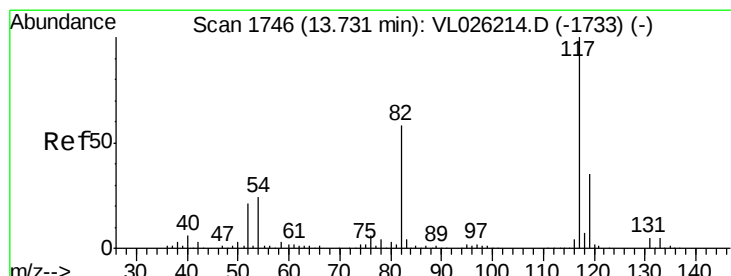
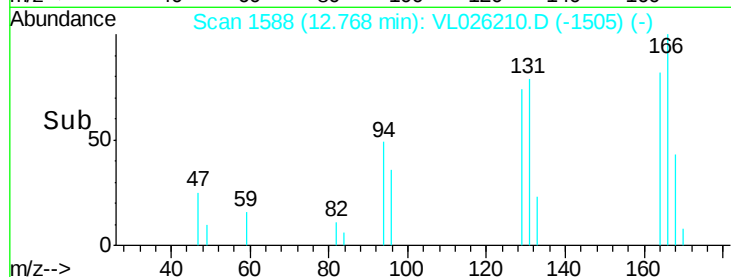
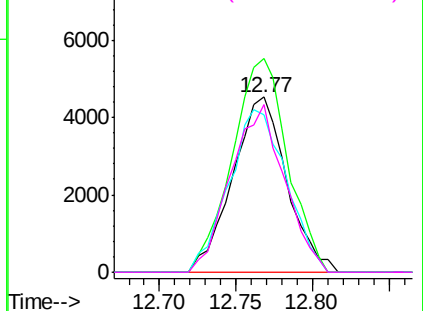


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.00 ppbv

RT: 13.71 min Scan# 1743

Delta R.T. -0.01 min

Lab File: VL026210.D

Acq: 20 Oct 2015 13:10

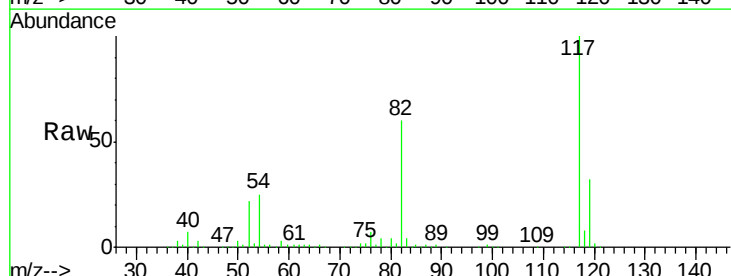
Tgt Ion:117 Resp: 1962061

Ion Ratio Lower Upper

117 100

82 59.6 46.3 69.5

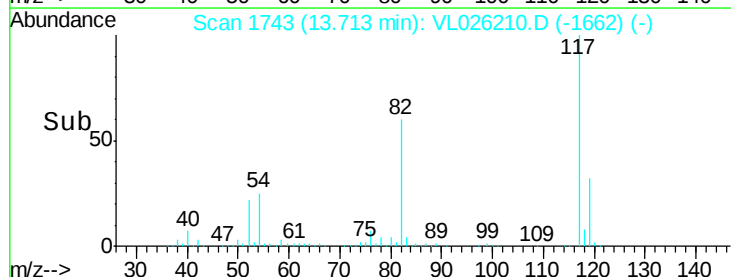
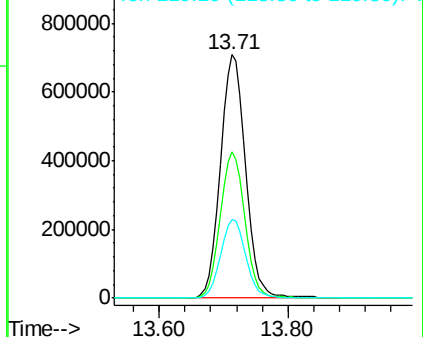
119 32.8 45.0 67.4#

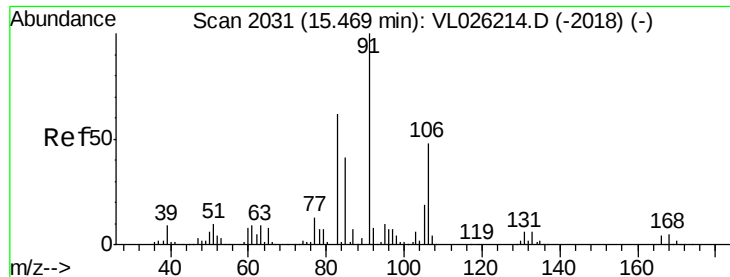


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.11 ppbv

RT: 15.46 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VL026210.D

Acq: 20 Oct 2015 13:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

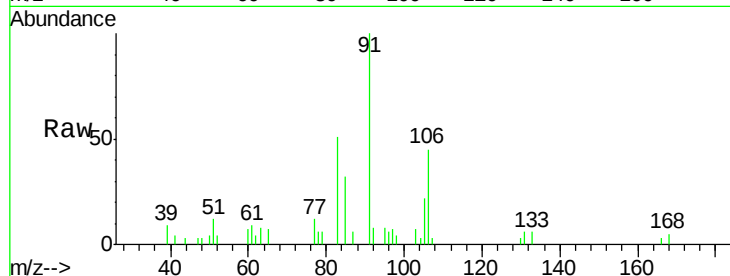
Tot Ion: 83 Resp: 18843

Ion Ratio Lower Upper

83 100

131 9.7 4.9 14.7

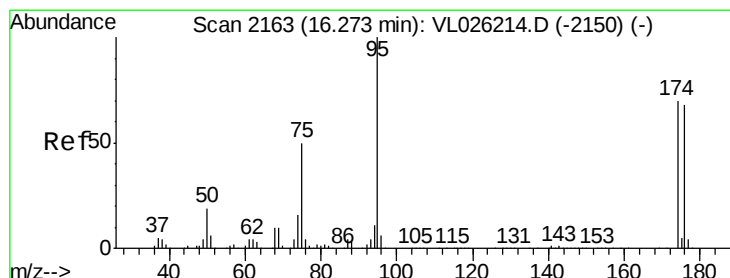
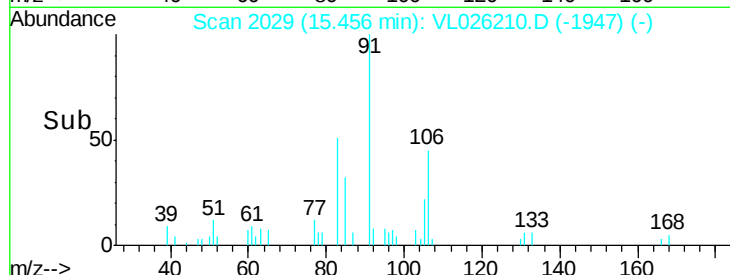
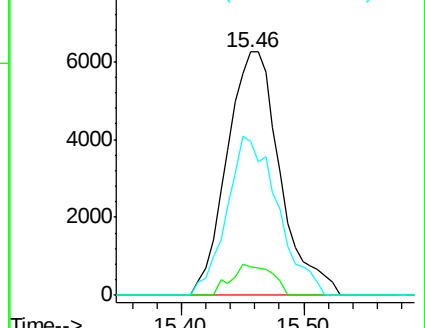
85 62.6 32.3 96.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.34 ppbv

RT: 16.26 min Scan# 2160

Delta R.T. -0.01 min

Lab File: VL026210.D

Acq: 20 Oct 2015 13:10

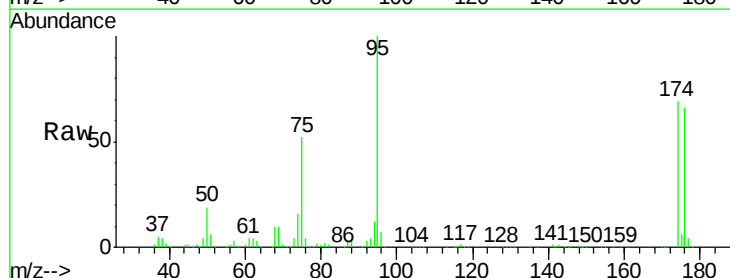
Tgt Ion: 95 Resp: 1558294

Ion Ratio Lower Upper

95 100

174 70.5 56.2 84.2

175 5.5 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): VL0

Ion 175.00 (174.70 to 175.70): VL0

