

Data Path : W:\HPCHEM1\MSVOA_L\Data\VL100915\
 Data File : VL026177.D
 Acq On : 9 Oct 2015 14:13
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Quant Time: Oct 09 14:48:47 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 14:20:41 2015
 QLast Update : Fri Oct 09 14:20:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	914135	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	2403613	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.77	117	2809176	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.31	95	2178325	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

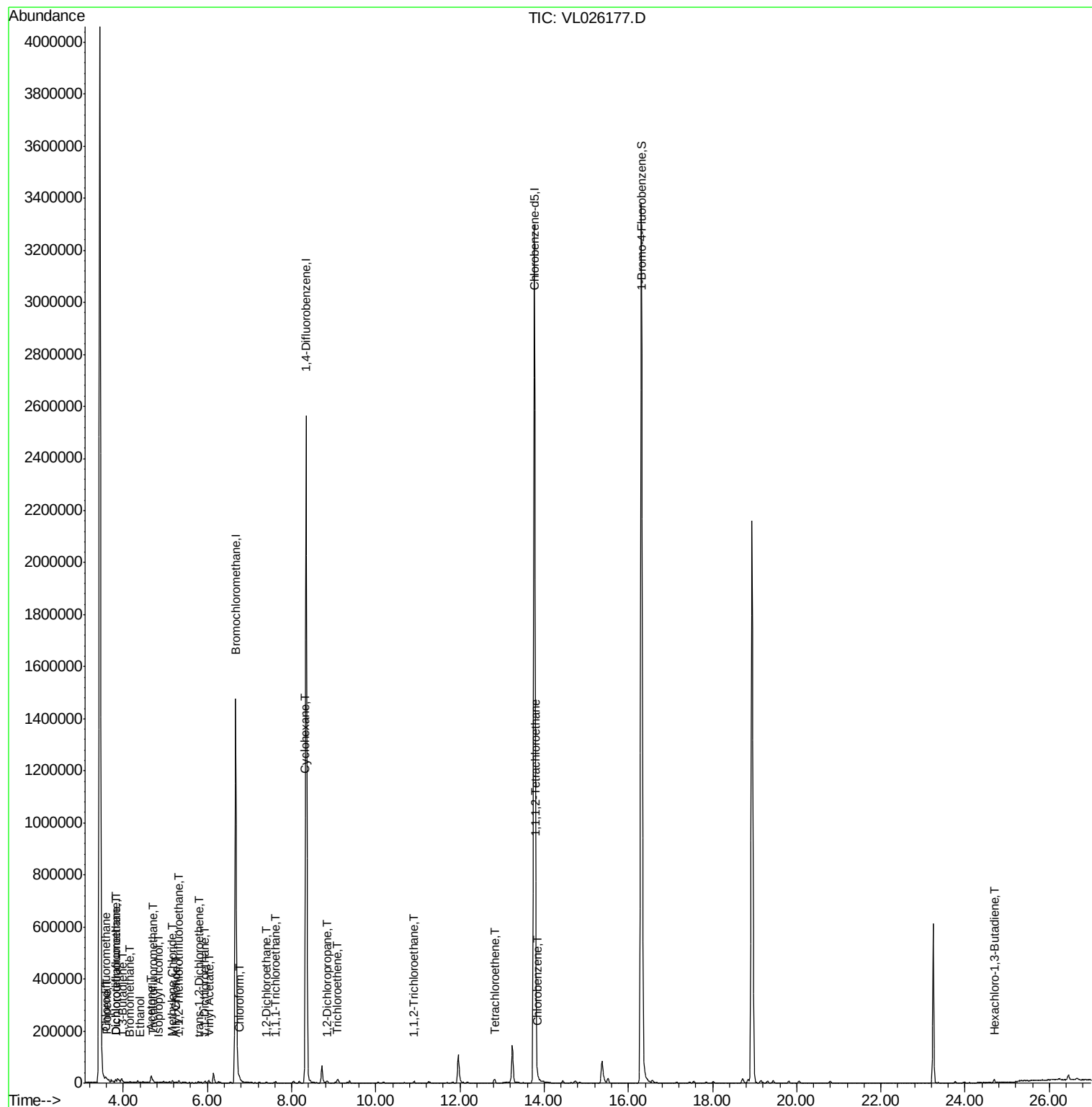
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.82	85	5507	0.04	ppbv	100
3) Chlorodifluoromethane	3.58	51	6117	0.06	ppbv	94
6) Bromomethane	4.16	94	1505	0.04	ppbv #	74
8) Dichlorotetrafluoroethane	3.82	85	5507	0.04	ppbv	98
9) Propene	3.61	41	2794	0.05	ppbv	94
11) Trichlorofluoromethane	4.71	101	5969	0.04	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.32	101	4140	0.04	ppbv	96
13) Ethanol	4.39	45	485	0.08	ppbv #	31
15) Acetone	4.67	43	29092	0.26	ppbv #	55
16) 1,3-Butadiene	3.98	39	3690	0.07	ppbv #	54
19) Isopropyl Alcohol	4.84	45	1865	0.04	ppbv #	1
20) Methylene Chloride	5.16	84	4763	0.10	ppbv #	86
21) Allyl Chloride	5.25	41	3005	0.04	ppbv #	87
22) trans-1,2-Dichloroethene	5.79	96	2091	0.03	ppbv #	79
23) Vinyl Acetate	6.03	43	8060	0.04	ppbv #	81
24) 1,1-Dichloroethane	5.92	63	5198	0.04	ppbv #	85
29) Chloroform	6.77	83	5701	0.04	ppbv	92
30) Cyclohexane	8.32	84	4003	0.04	ppbv #	17
32) 1,1,1-Trichloroethane	7.62	97	4856	0.03	ppbv	95
37) 1,2-Dichloroethane	7.39	62	3852	0.03	ppbv #	78
38) Trichloroethene	9.09	130	4500	0.04	ppbv	96
39) 1,2-Dichloropropane	8.85	63	3243	0.03	ppbv #	85
47) 1,1,2-Trichloroethane	10.90	97	3283	0.03	ppbv #	88
52) Tetrachloroethene	12.82	164	5189	0.04	ppbv #	78
56) 1,1,1,2-Tetrachloroethane	13.80	131	3653	0.03	ppbv #	1
57) Chlorobenzene	13.84	112	9289	0.03	ppbv #	94
78) Hexachloro-1,3-Butadiene	24.69	225	4097	0.04	ppbv	88

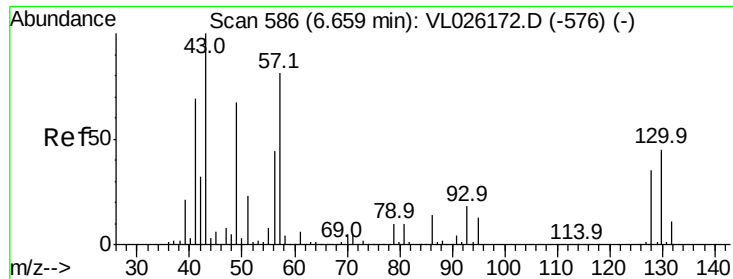
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 09 14:20:41 2015
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.67 min Scan# 588

Delta R.T. 0.01 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

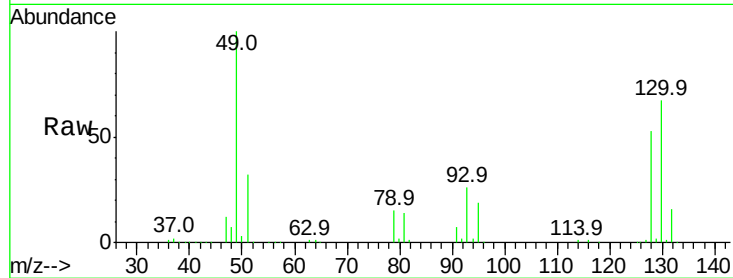
Tgt Ion: 49 Resp: 914135

Ion Ratio Lower Upper

49 100

128 52.8 26.3 78.8

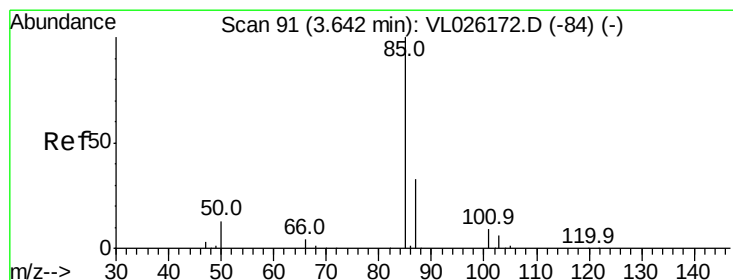
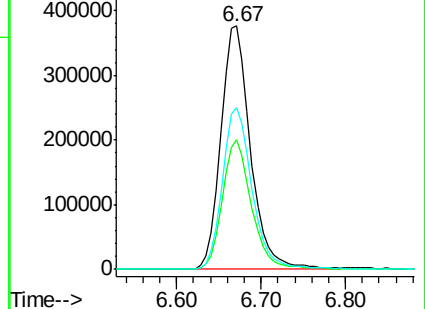
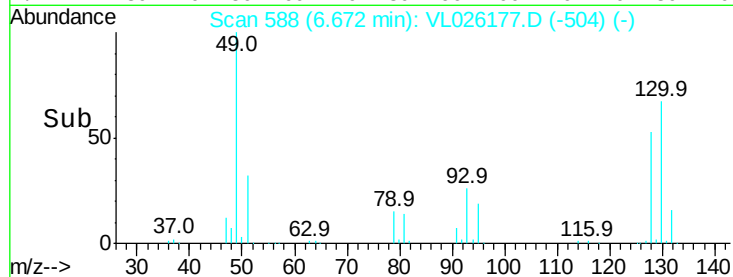
130 67.1 34.2 102.5



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



#2

Dichlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.82 min Scan# 120

Delta R.T. 0.18 min

Lab File: VL026177.D

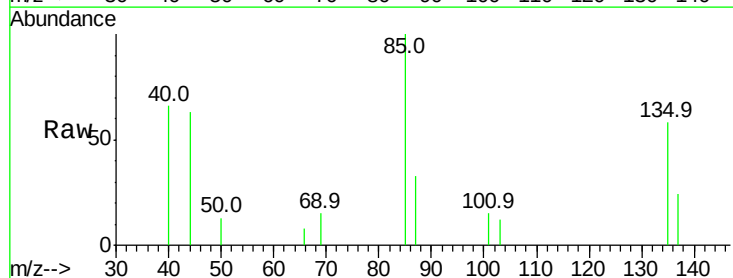
Acq: 9 Oct 2015 14:13

Tgt Ion: 85 Resp: 5507

Ion Ratio Lower Upper

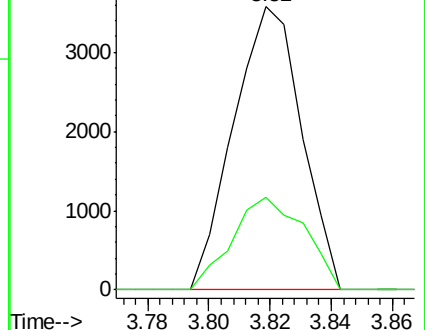
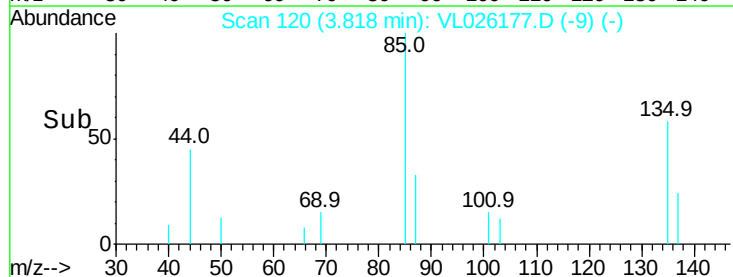
85 100

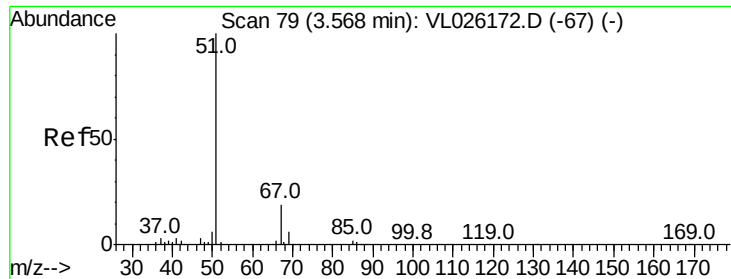
87 32.6 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.58 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

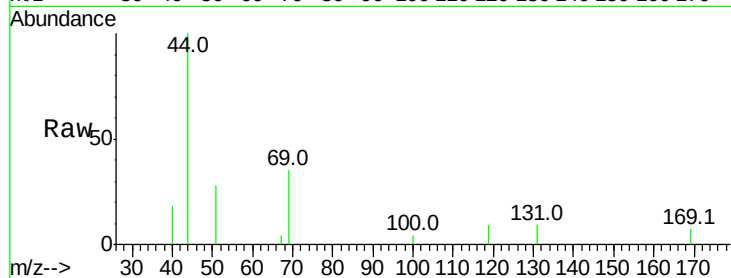
VSTDIC0.03

Tgt Ion: 51 Resp: 6117

Ion Ratio Lower Upper

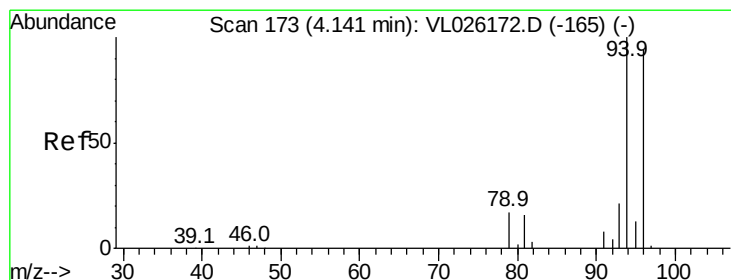
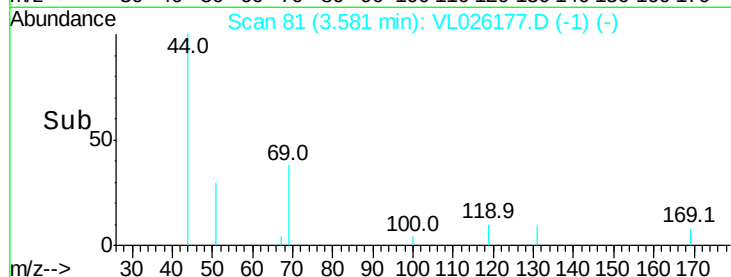
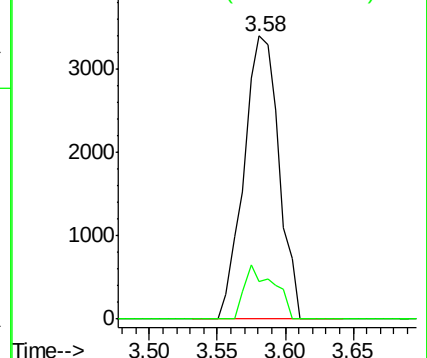
51 100

67 16.0 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#6

Bromomethane

Concen: 0.04 ppbv

RT: 4.16 min Scan# 176

Delta R.T. 0.02 min

Lab File: VL026177.D

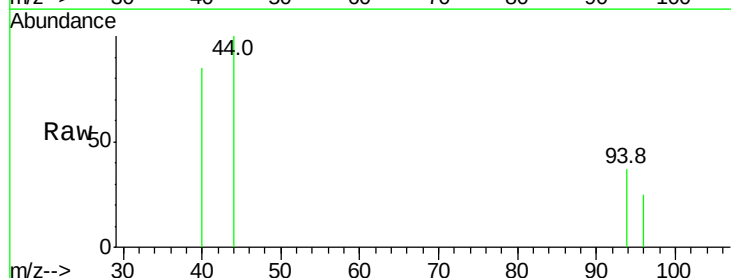
Acq: 9 Oct 2015 14:13

Tgt Ion: 94 Resp: 1505

Ion Ratio Lower Upper

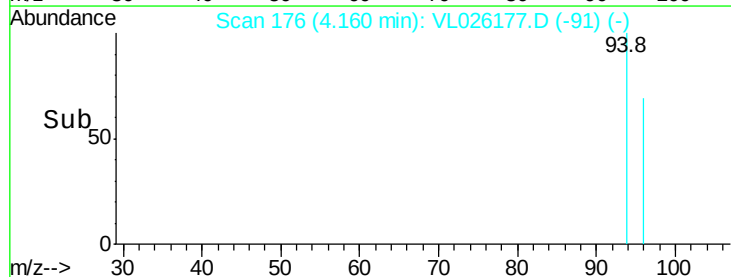
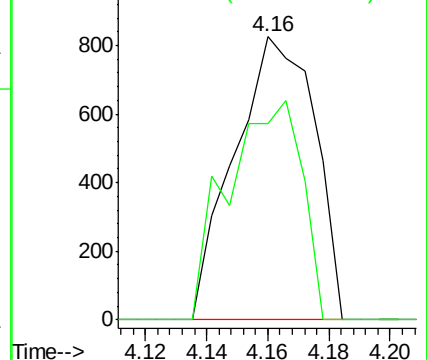
94 100

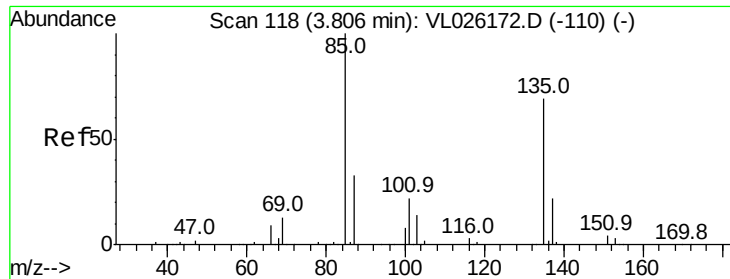
96 69.3 75.4 113.2#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.04 ppbv

RT: 3.82 min Scan# 120

Delta R.T. 0.01 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

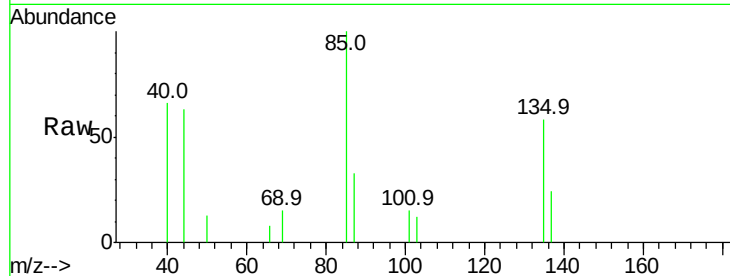
VSTDIC0.03

Tgt Ion: 85 Resp: 5507

Ion Ratio Lower Upper

85 100

135 70.9 55.3 82.9



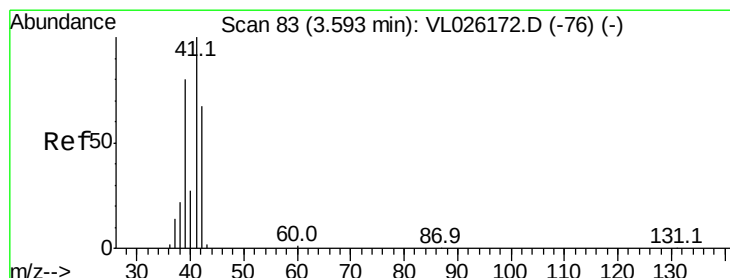
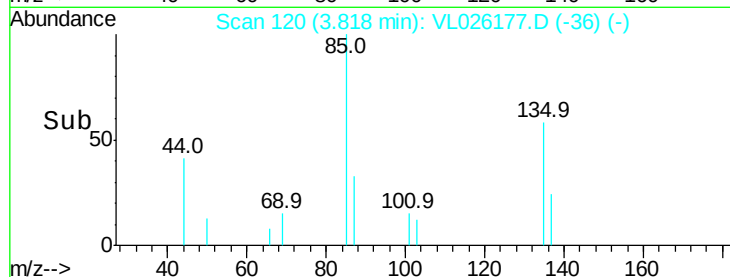
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

3.82

3.80 3.82 3.84 3.86

Time-->



#9

Propene

Concen: 0.05 ppbv

RT: 3.61 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL026177.D

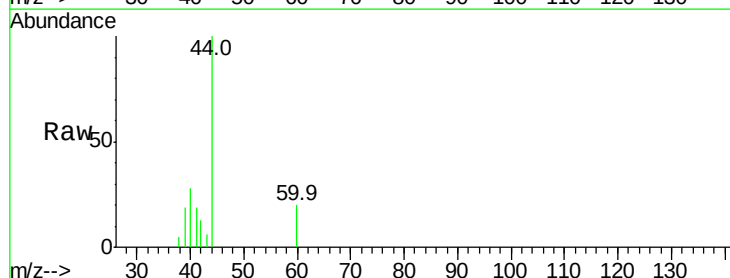
Acq: 9 Oct 2015 14:13

Tgt Ion: 41 Resp: 2794

Ion Ratio Lower Upper

41 100

42 62.4 53.6 80.4



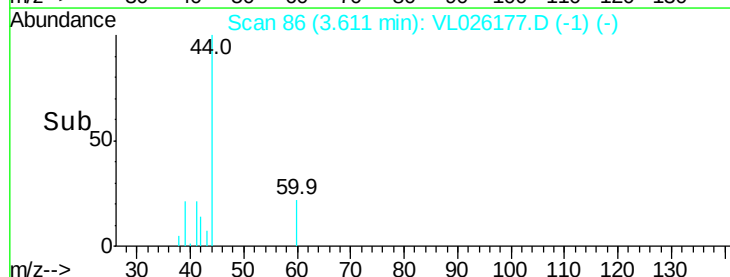
Abundance Ion 41.10 (40.80 to 41.80): VL0

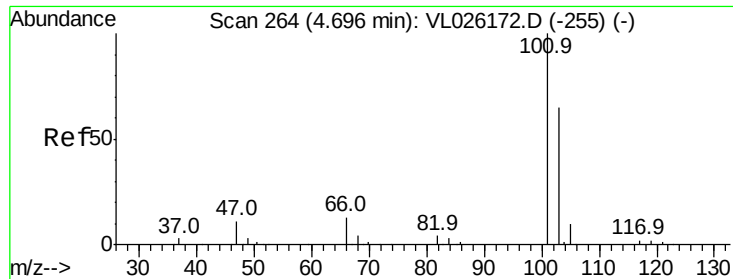
Ion 42.10 (41.80 to 42.80): VL0

3.61

3.60 3.61 3.62 3.63 3.64 3.65

Time-->

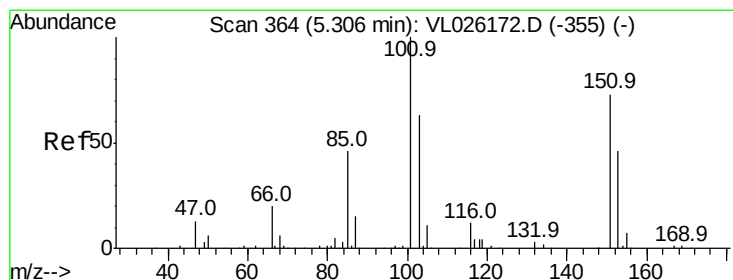
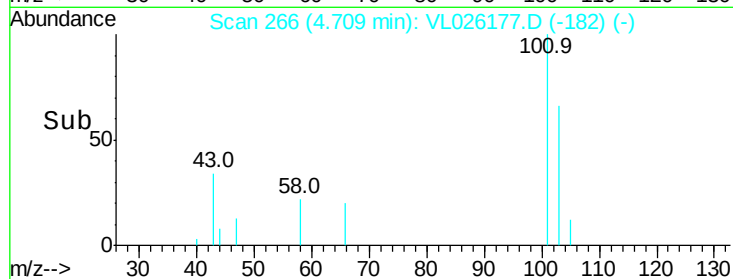
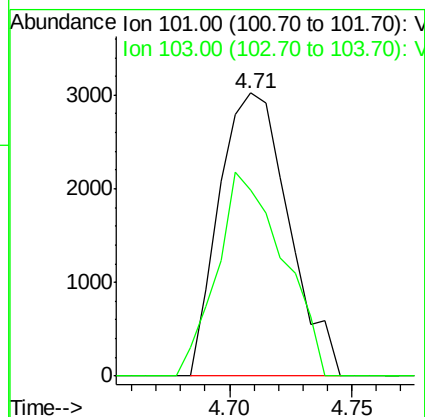
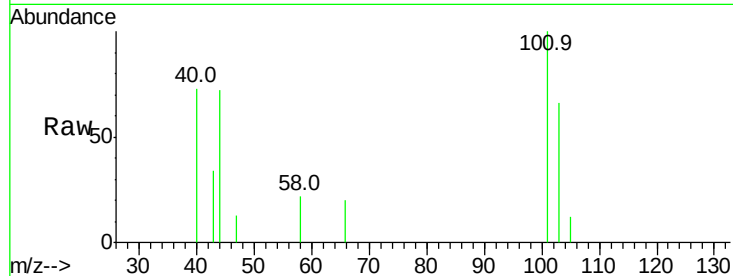




#11
 Trichlorofluoromethane
 Concen: 0.04 ppbv
 RT: 4.71 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

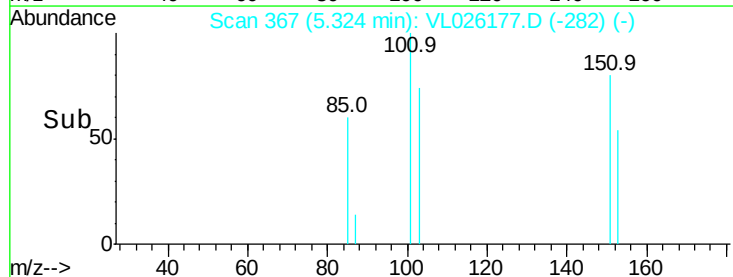
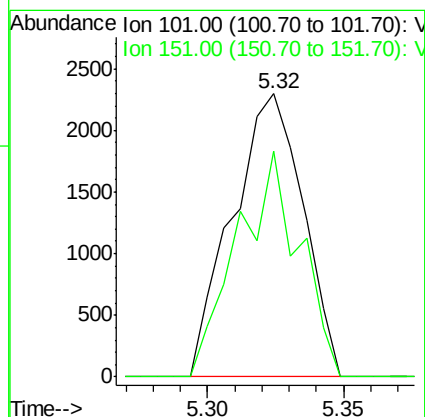
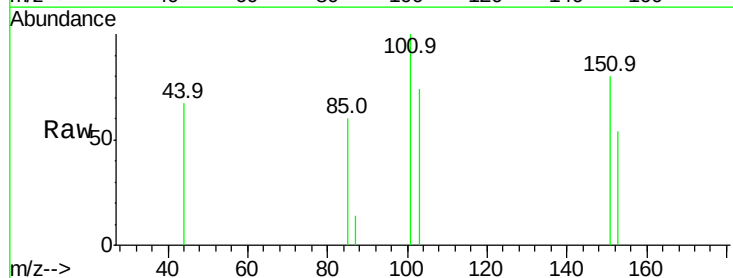
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

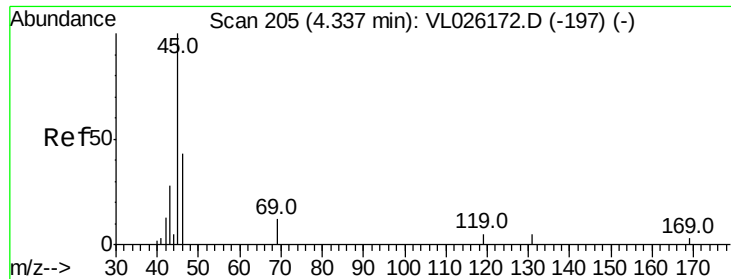
Tgt Ion:101 Resp: 5969
 Ion Ratio Lower Upper
 101 100
 103 65.7 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.04 ppbv
 RT: 5.32 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

Tgt Ion:101 Resp: 4140
 Ion Ratio Lower Upper
 101 100
 151 70.3 59.0 88.6





#13

Ethanol

Concen: 0.08 ppbv

RT: 4.39 min Scan# 214

Delta R.T. 0.05 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

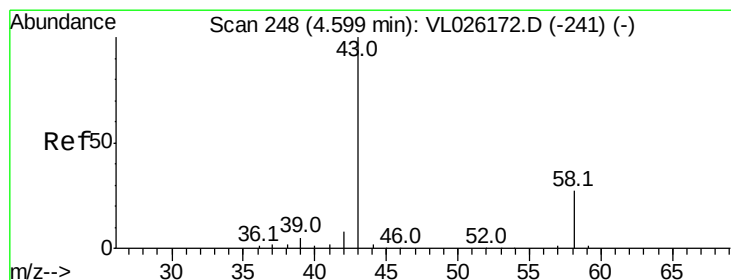
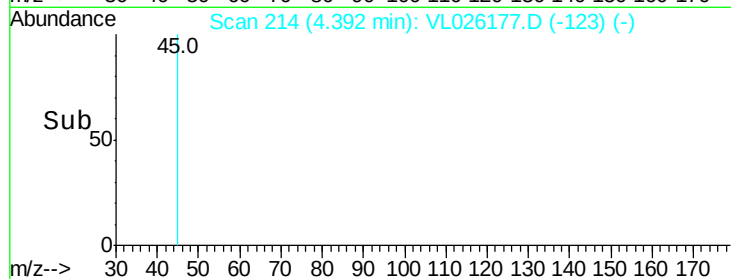
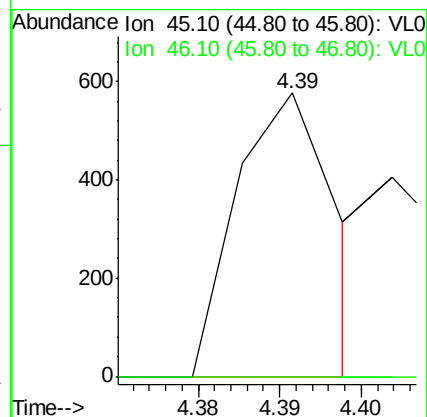
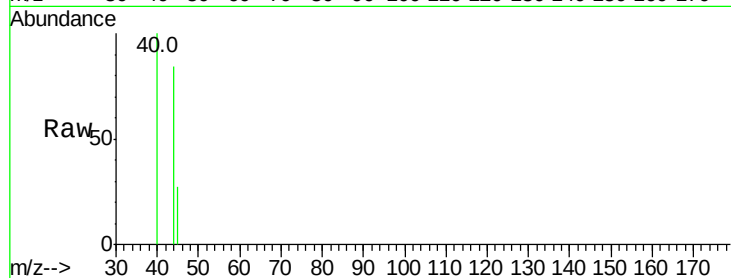
VSTDIC0.03

Tgt Ion: 45 Resp: 485

Ion Ratio Lower Upper

45 100

46 0.0 18.1 72.5#



#15

Acetone

Concen: 0.26 ppbv

RT: 4.67 min Scan# 259

Delta R.T. 0.07 min

Lab File: VL026177.D

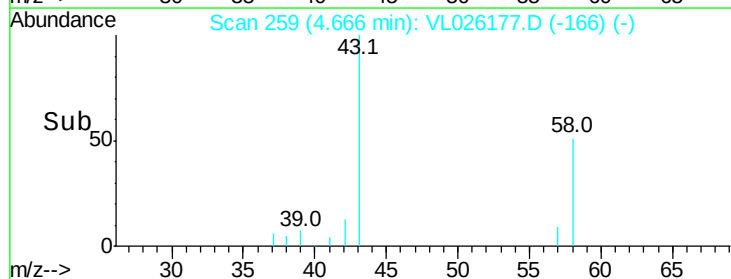
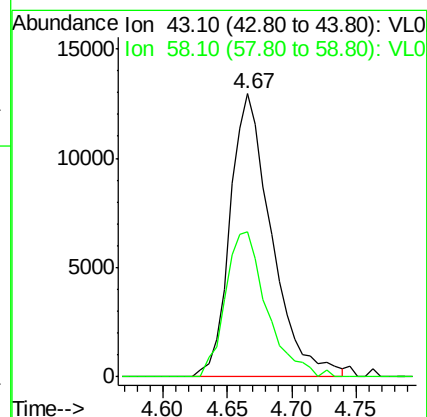
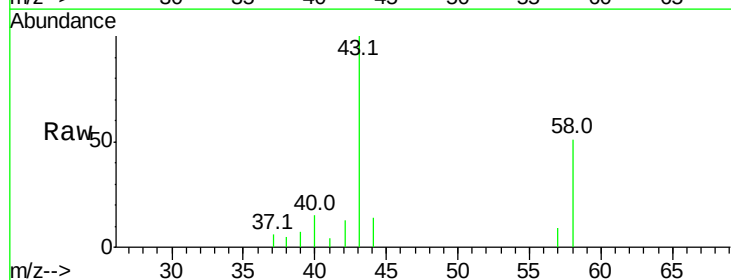
Acq: 9 Oct 2015 14:13

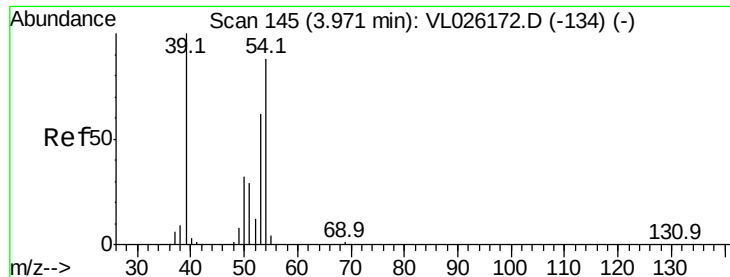
Tgt Ion: 43 Resp: 29092

Ion Ratio Lower Upper

43 100

58 51.2 22.0 33.0#

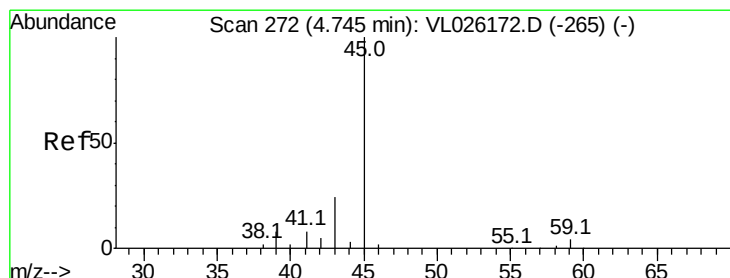
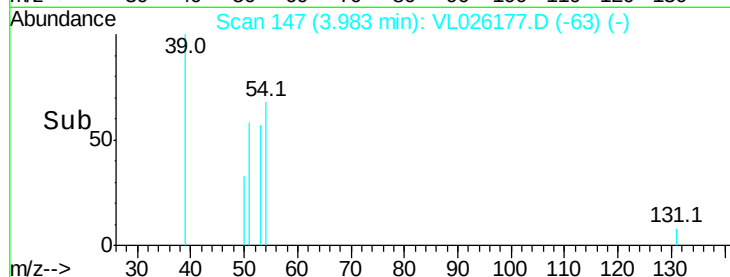
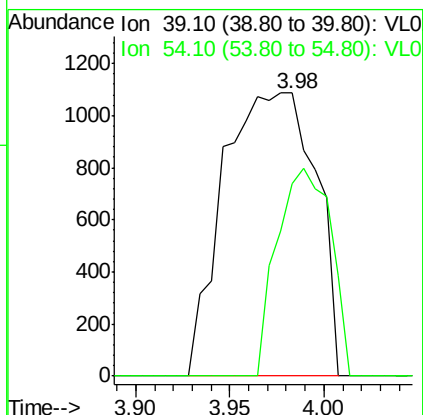
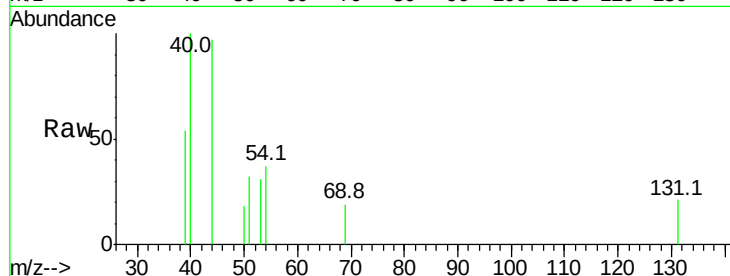




#16
 1,3-Butadiene
 Concen: 0.07 ppbv
 RT: 3.98 min Scan# 147
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

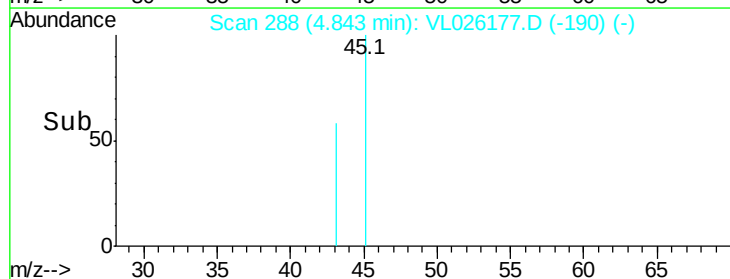
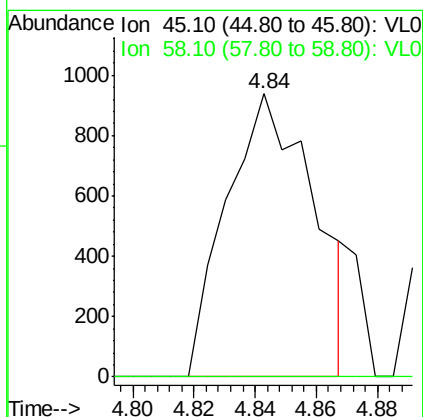
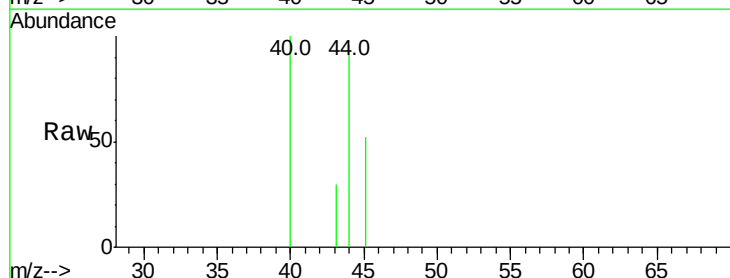
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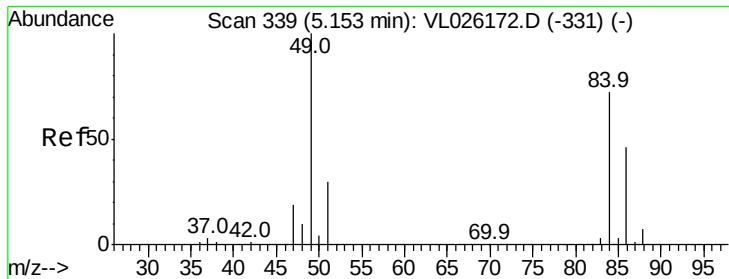
Tgt Ion: 39 Resp: 3690
 Ion Ratio Lower Upper
 39 100
 54 42.8 67.9 101.9#



#19
 Isopropyl Alcohol
 Concen: 0.04 ppbv
 RT: 4.84 min Scan# 288
 Delta R.T. 0.10 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

Tgt Ion: 45 Resp: 1865
 Ion Ratio Lower Upper
 45 100
 58 799.4 1.7 2.5#

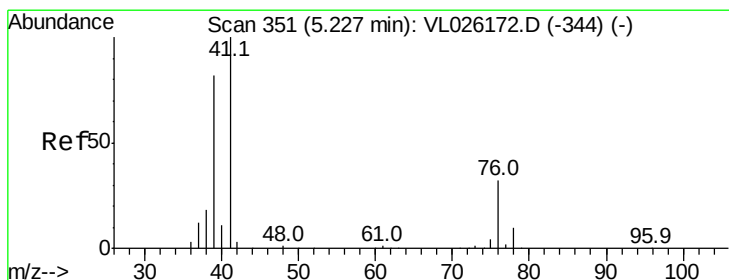
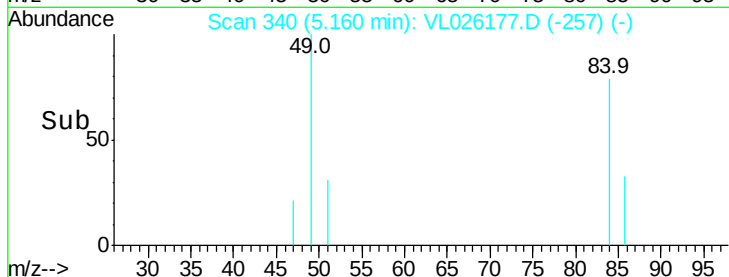
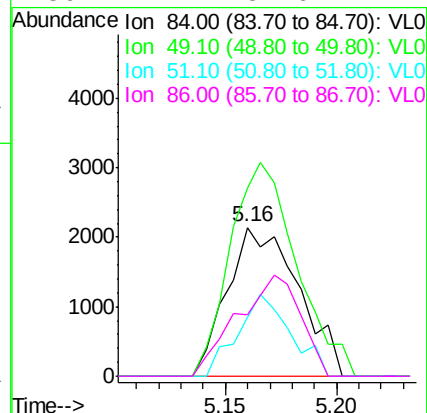
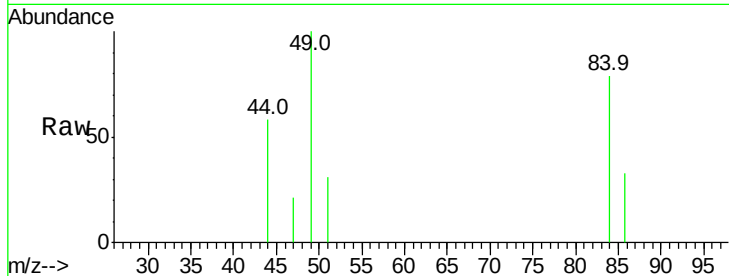




#20
Methylene Chloride
Concen: 0.10 ppbv
RT: 5.16 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL026177.D
Acq: 9 Oct 2015 14:13

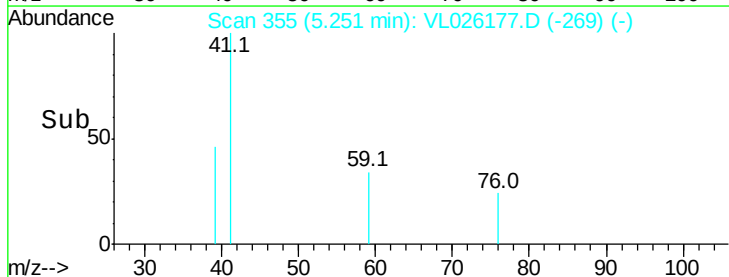
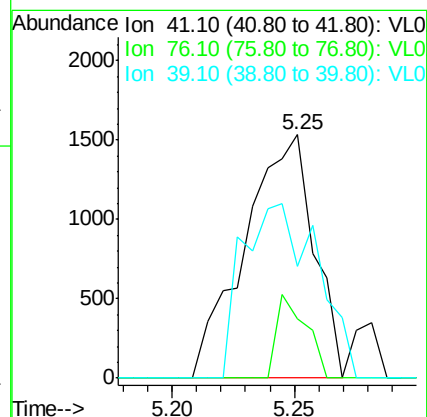
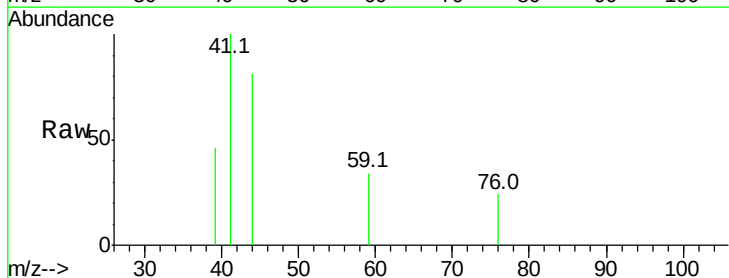
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

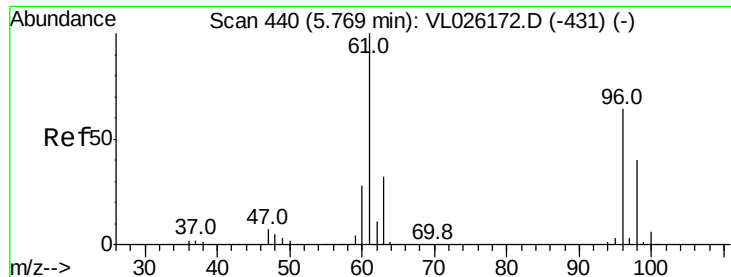
Tgt Ion: 84 Resp: 4763
Ion Ratio Lower Upper
84 100
49 126.5 111.3 166.9
51 39.2 33.0 49.6
86 41.7 51.6 77.4#



#21
Allyl Chloride
Concen: 0.04 ppbv
RT: 5.25 min Scan# 355
Delta R.T. 0.02 min
Lab File: VL026177.D
Acq: 9 Oct 2015 14:13

Tgt Ion: 41 Resp: 3005
Ion Ratio Lower Upper
41 100
76 14.6 25.4 38.2#
39 78.0 66.5 99.7





#22

trans-1,2-Dichloroethene

Concen: 0.03 ppbv

RT: 5.79 min Scan# 444

Delta R.T. 0.02 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

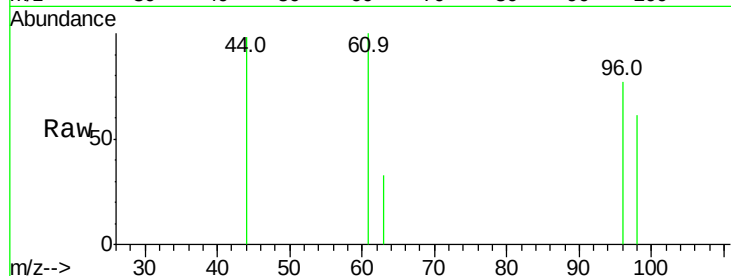
Tgt Ion: 96 Resp: 2091

Ion Ratio Lower Upper

96 100

61 129.9 125.8 188.6

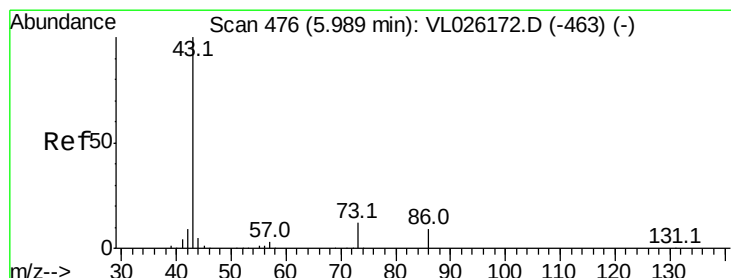
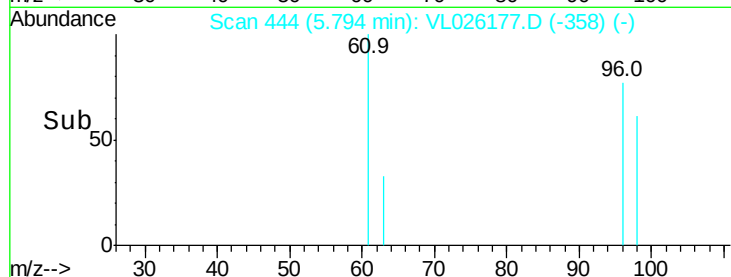
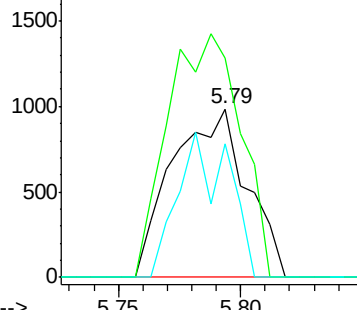
98 79.4 50.6 75.8#



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



#23

Vinyl Acetate

Concen: 0.04 ppbv

RT: 6.03 min Scan# 483

Delta R.T. 0.04 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Tgt Ion: 43 Resp: 8060

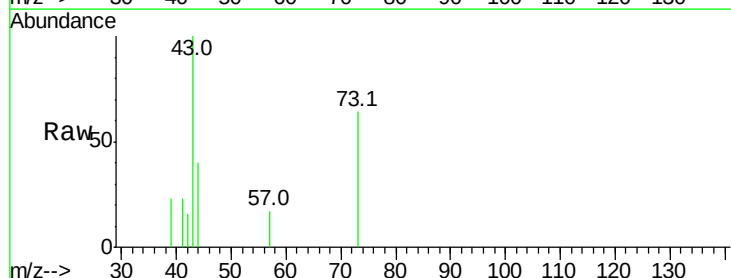
Ion Ratio Lower Upper

43 100

86 0.0 7.2 10.8#

42 16.1 7.4 11.2#

44 7.5 3.9 5.9#

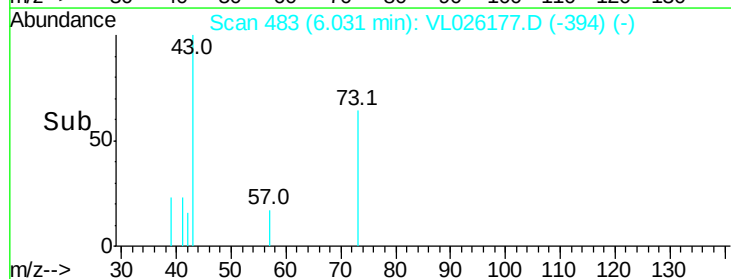
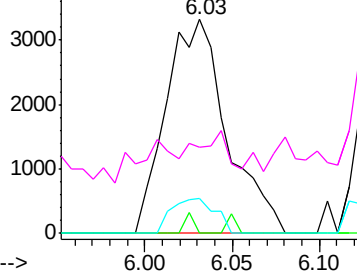


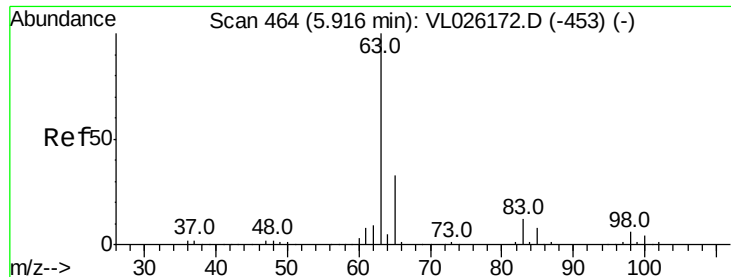
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

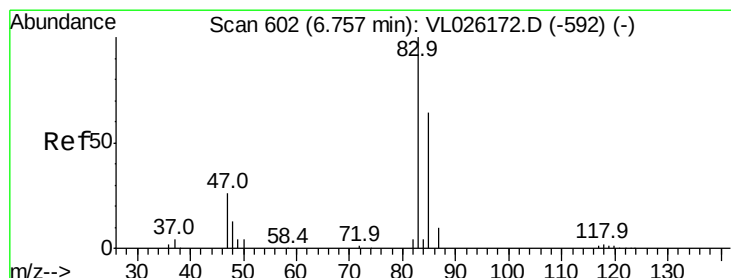
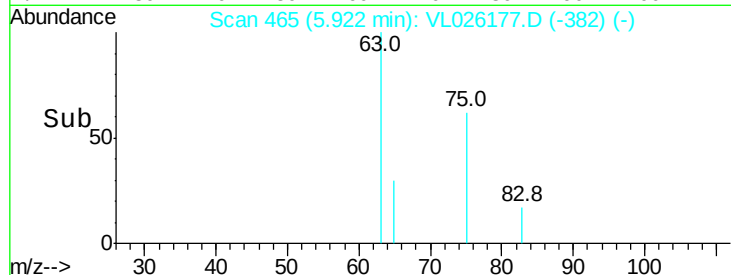
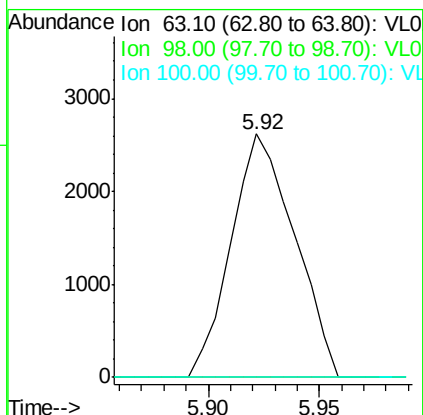
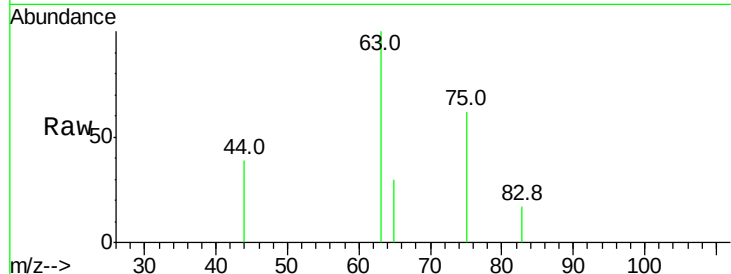




#24
 1,1-Dichloroethane
 Concen: 0.04 ppbv
 RT: 5.92 min Scan# 465
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

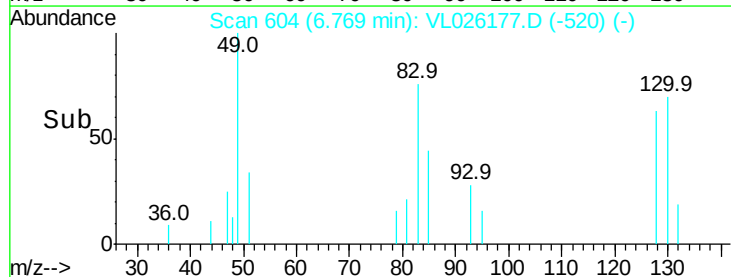
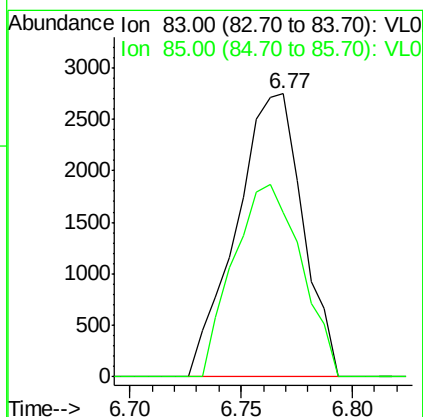
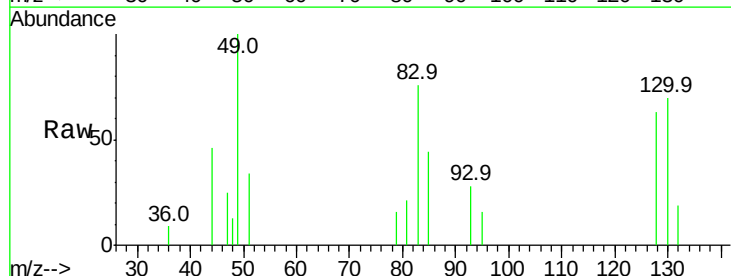
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

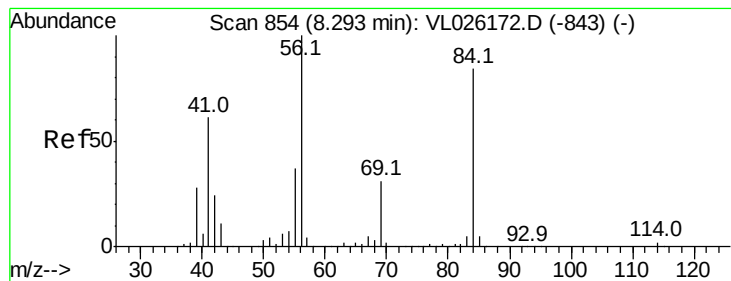
Tgt Ion: 63 Resp: 5198
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.9 8.7#
 100 0.0 1.8 5.5#



#29
 Chloroform
 Concen: 0.04 ppbv
 RT: 6.77 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

Tgt Ion: 83 Resp: 5701
 Ion Ratio Lower Upper
 83 100
 85 58.1 51.5 77.3





#30

Cyclohexane

Concen: 0.04 ppbv

RT: 8.32 min Scan# 858

Delta R.T. 0.02 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

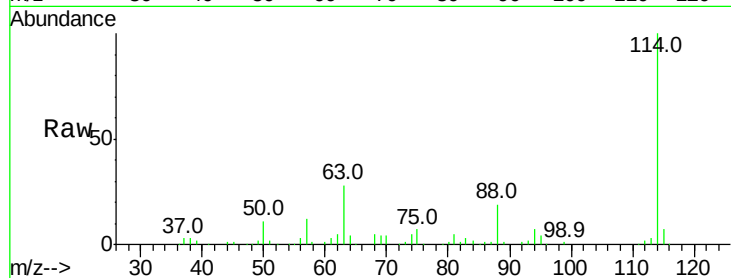
Tgt Ion: 84 Resp: 4003

Ion Ratio Lower Upper

84 100

56 0.0 99.8 149.8#

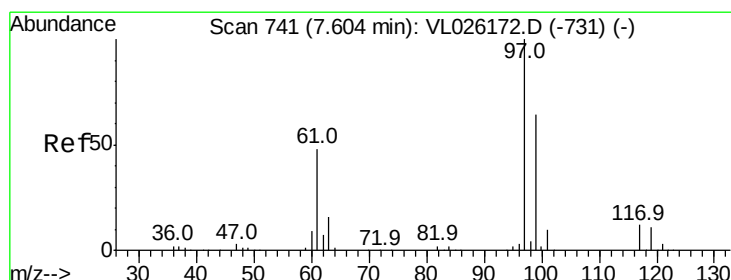
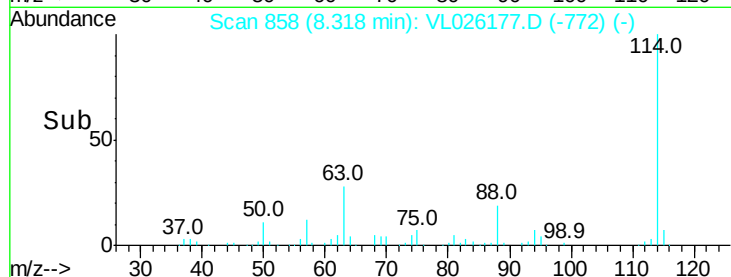
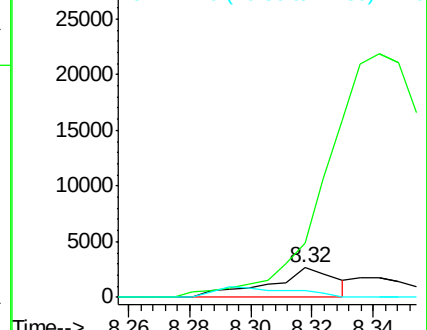
41 41.6 58.1 87.1#



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



#32

1,1,1-Trichloroethane

Concen: 0.03 ppbv

RT: 7.62 min Scan# 743

Delta R.T. 0.01 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

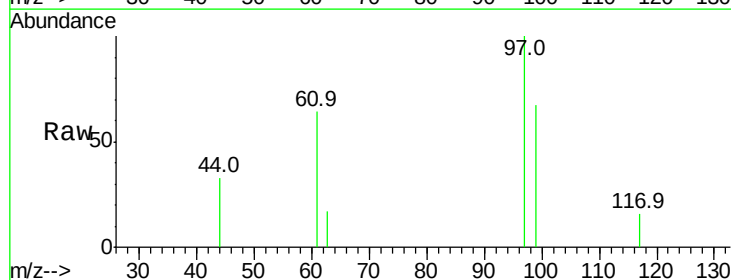
Tgt Ion: 97 Resp: 4856

Ion Ratio Lower Upper

97 100

99 60.4 51.3 76.9

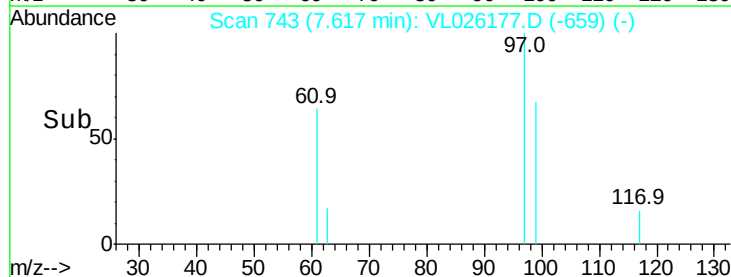
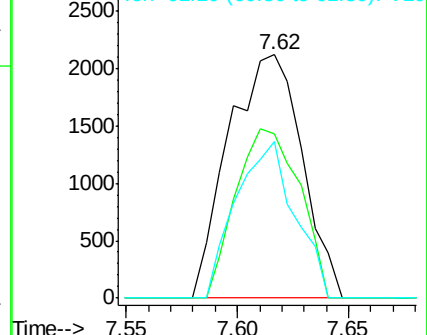
61 51.5 38.7 58.1

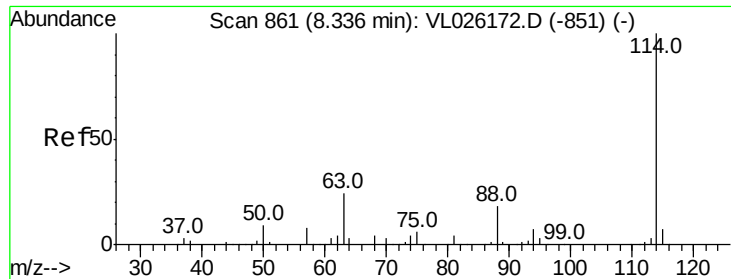


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

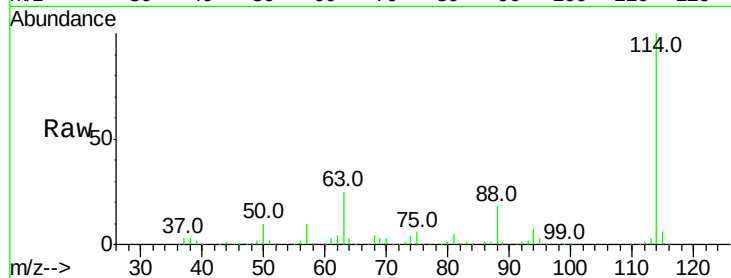




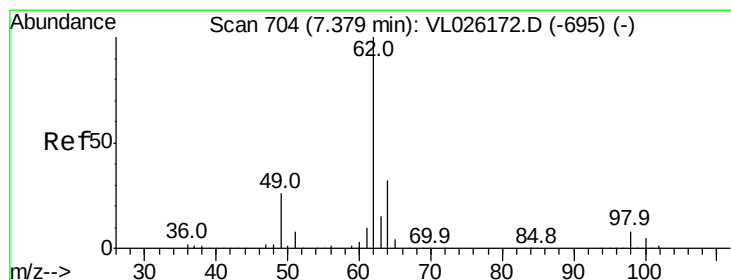
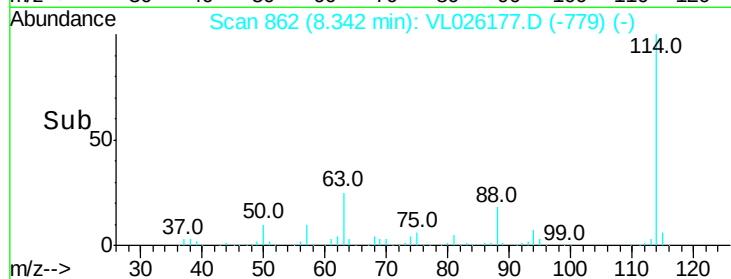
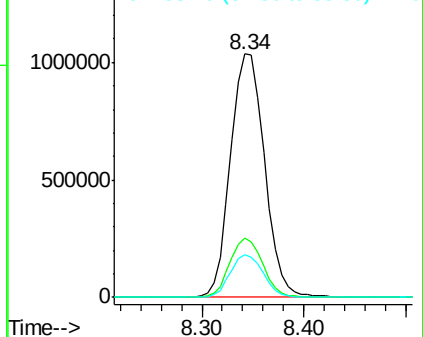
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 862
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion:114 Resp: 2403613
 Ion Ratio Lower Upper
 114 100
 63 23.6 19.0 28.6
 88 17.2 13.8 20.8

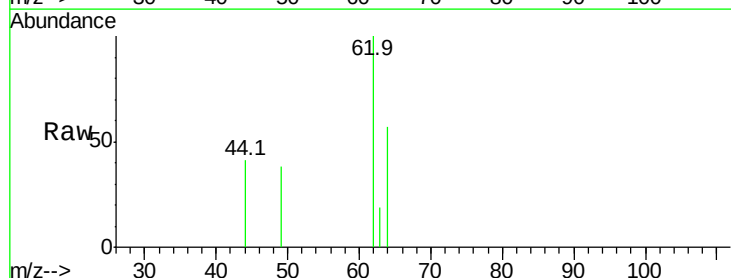


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

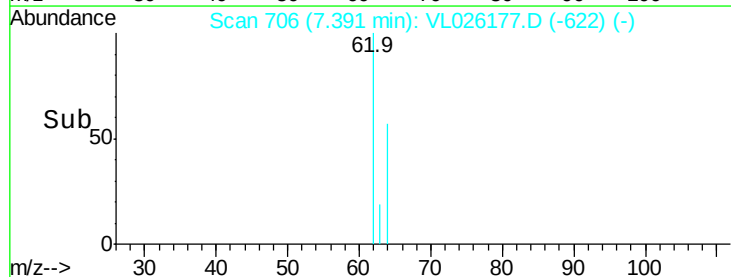
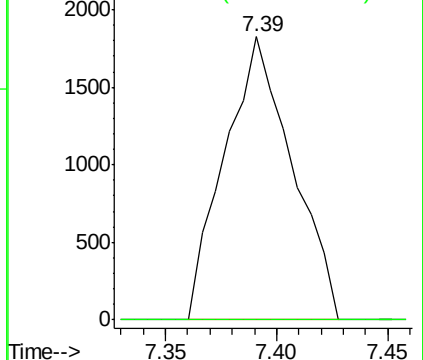


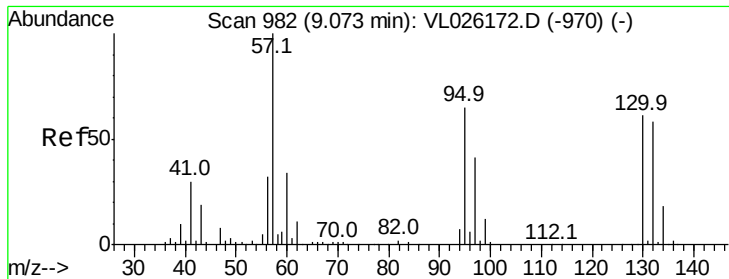
#37
 1,2-Dichloroethane
 Concen: 0.03 ppbv
 RT: 7.39 min Scan# 706
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

Tgt Ion: 62 Resp: 3852
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.2 9.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.04 ppbv

RT: 9.09 min Scan# 985

Delta R.T. 0.02 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:130 Resp: 4500

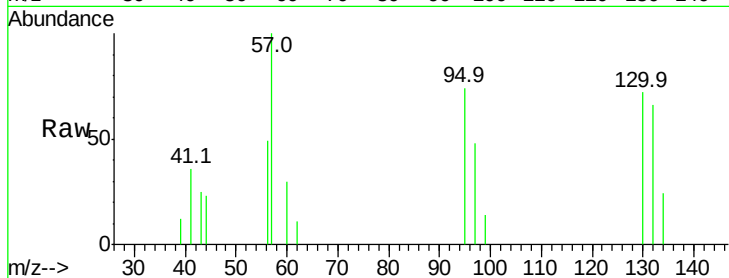
Ion Ratio Lower Upper

130 100

95 102.8 84.9 127.3

132 91.2 76.8 115.2

97 65.7 54.1 81.1

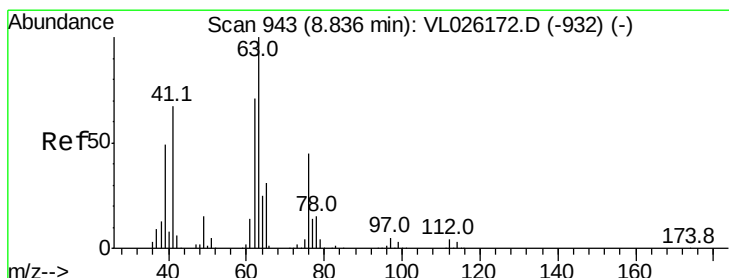
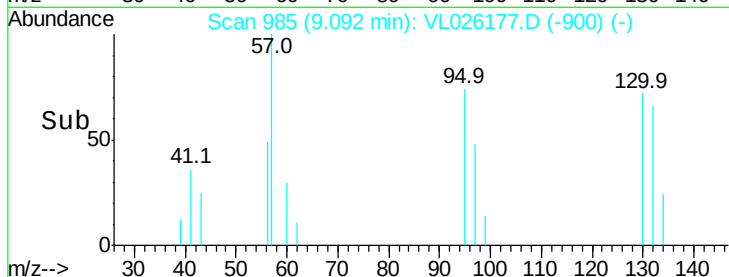
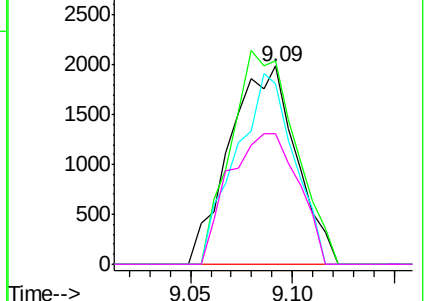


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 0.03 ppbv

RT: 8.85 min Scan# 946

Delta R.T. 0.02 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

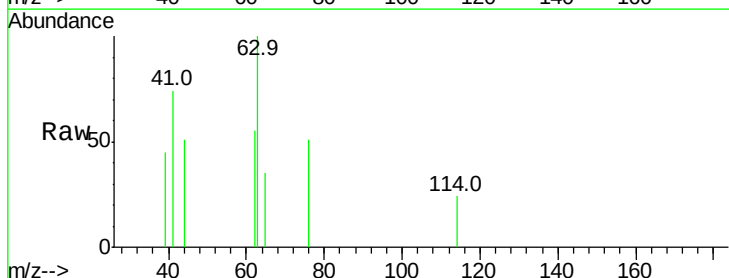
Tgt Ion: 63 Resp: 3243

Ion Ratio Lower Upper

63 100

41 74.3 53.9 80.9

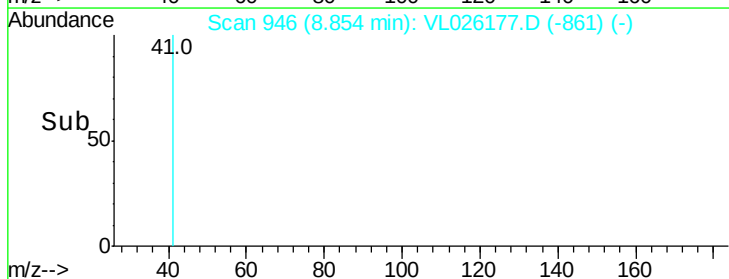
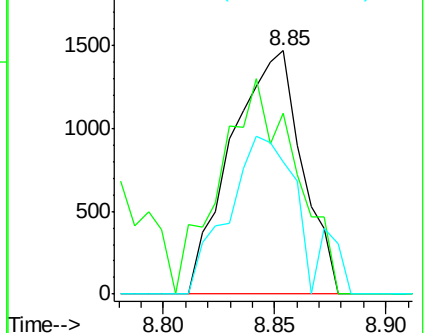
62 54.6 57.1 85.7#

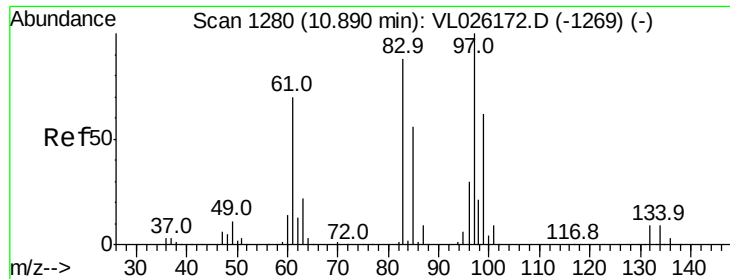


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#47

1,1,2-Trichloroethane

Concen: 0.03 ppbv

RT: 10.90 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 97 Resp: 3283

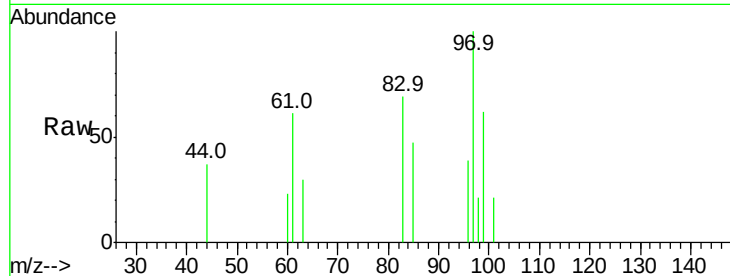
Ion Ratio Lower Upper

97 100

83 69.4 70.6 106.0#

85 47.0 45.1 67.7

99 62.2 49.9 74.9

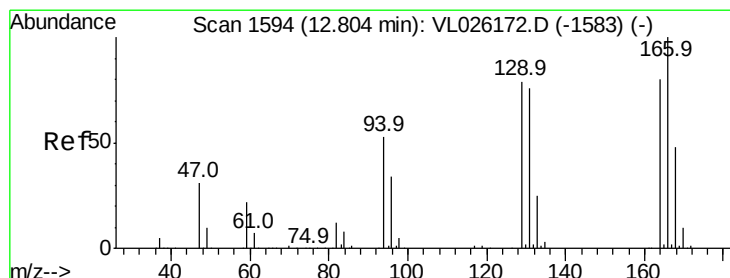
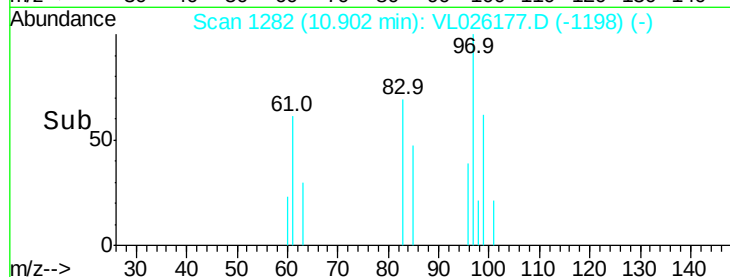
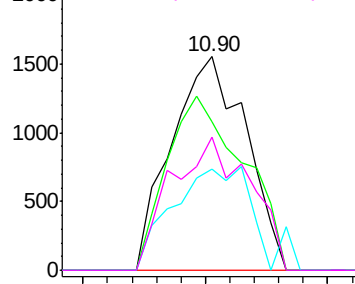


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#52

Tetrachloroethene

Concen: 0.04 ppbv

RT: 12.82 min Scan# 1597

Delta R.T. 0.02 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Tgt Ion: 164 Resp: 5189

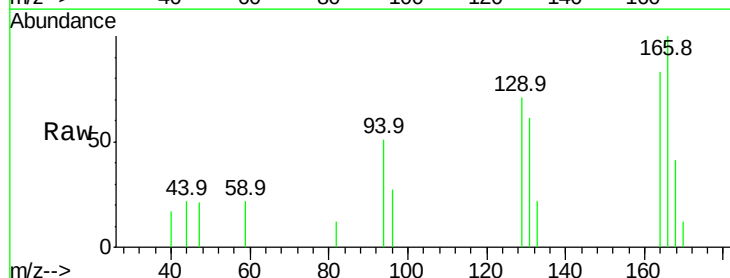
Ion Ratio Lower Upper

164 100

166 104.9 99.9 149.9

129 71.0 79.1 118.7#

131 73.1 76.3 114.5#

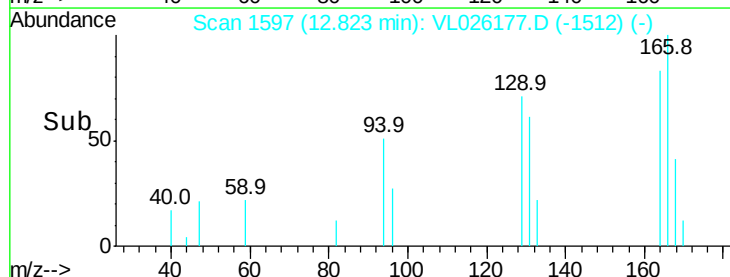
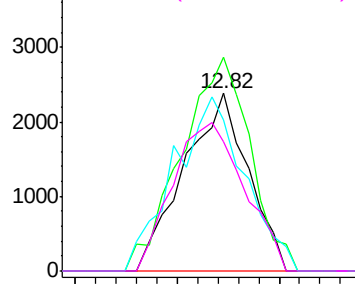


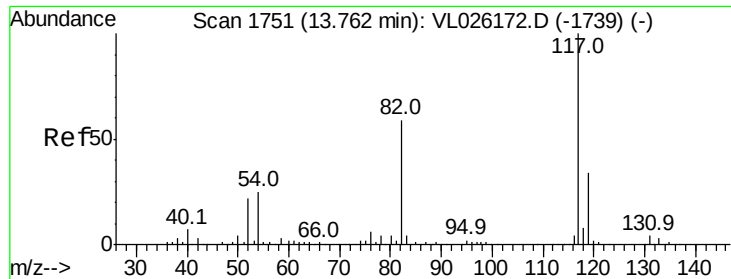
Abundance Ion 163.90 (163.60 to 164.60): V

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

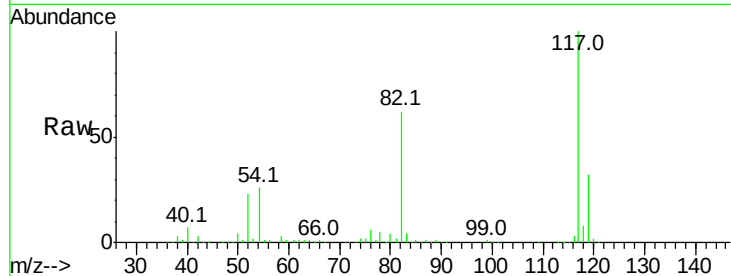




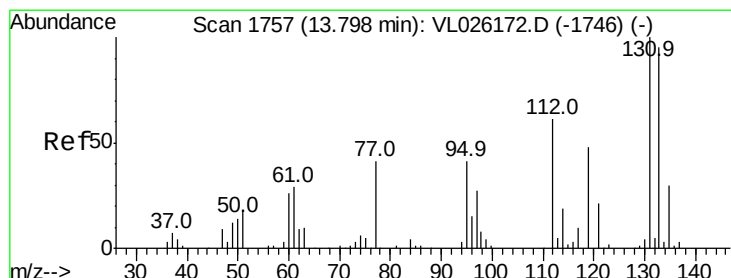
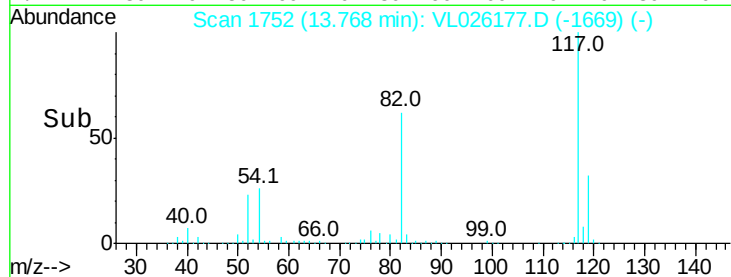
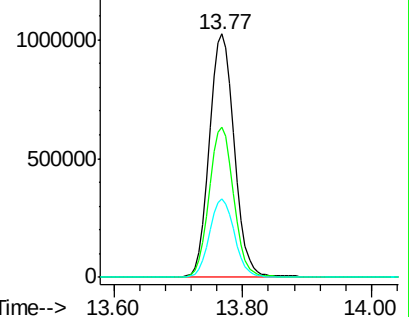
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.77 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VL026177.D
Acq: 9 Oct 2015 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion:117 Resp: 2809176
Ion Ratio Lower Upper
117 100
82 61.5 47.7 71.5
119 32.6 43.7 65.5#

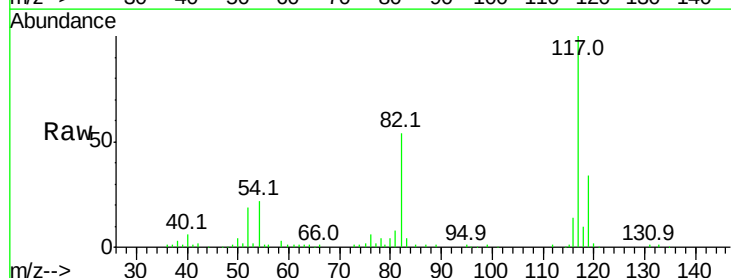


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

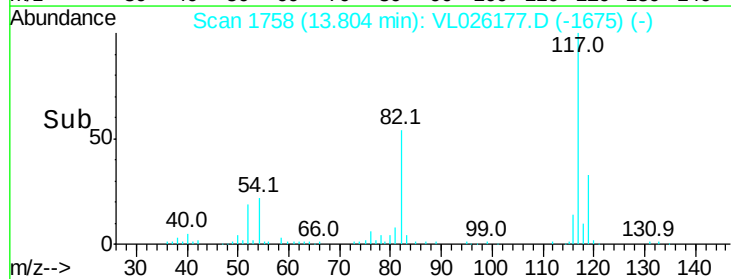
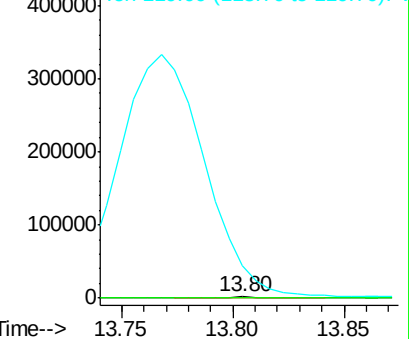


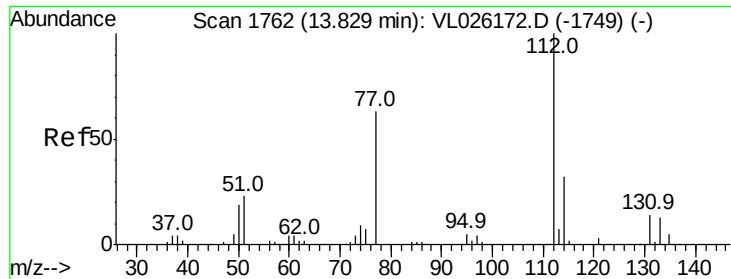
#56
1,1,1,2-Tetrachloroethane
Concen: 0.03 ppbv
RT: 13.80 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VL026177.D
Acq: 9 Oct 2015 14:13

Tgt Ion:131 Resp: 3653
Ion Ratio Lower Upper
131 100
133 84.1 76.5 114.7
119 25103.8 116.0 174.0#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V

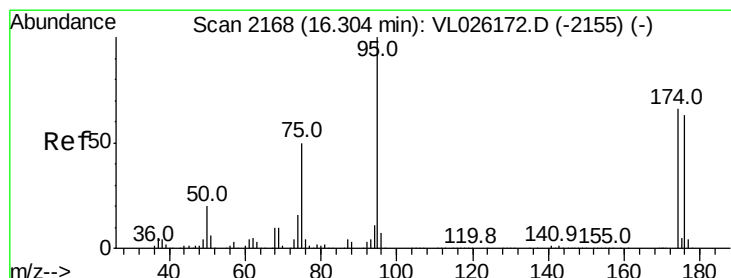
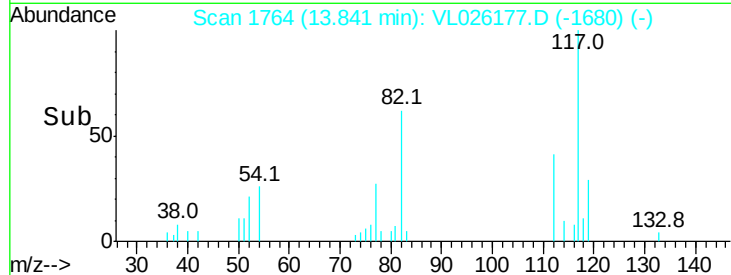
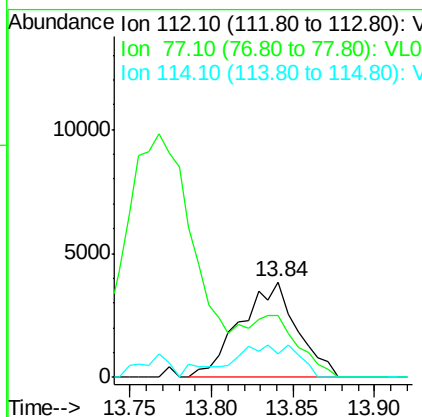
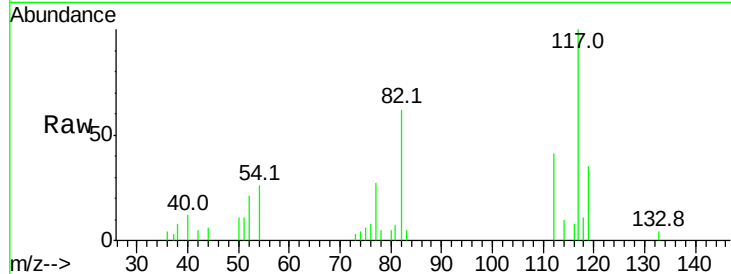




#57
 Chlorobenzene
 Concen: 0.03 ppbv
 RT: 13.84 min Scan# 1764
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

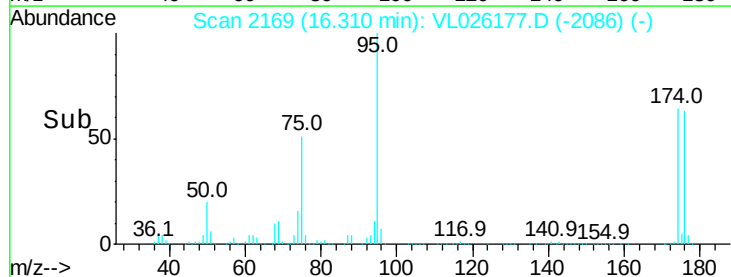
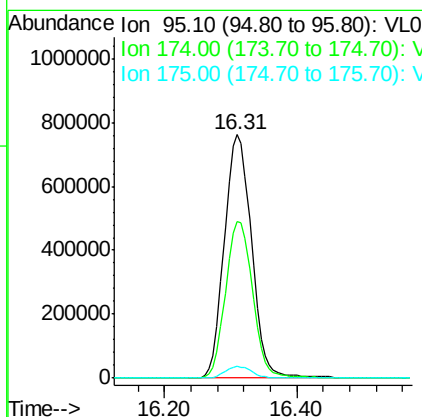
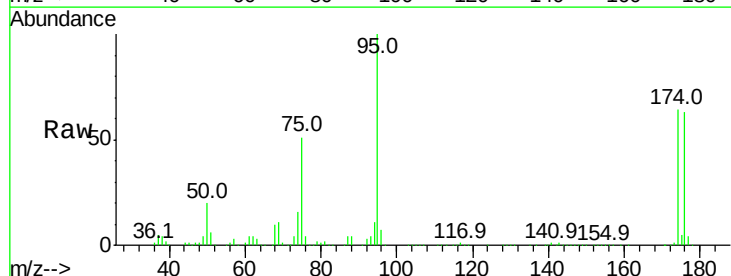
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

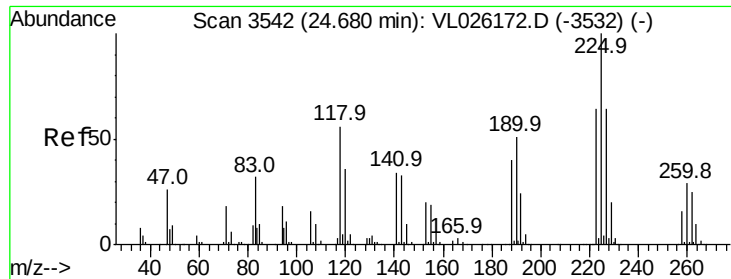
Tgt Ion: 112 Resp: 9289
 Ion Ratio Lower Upper
 112 100
 77 65.0 51.0 76.4
 114 24.1 29.0 35.4#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.50 ppbv
 RT: 16.31 min Scan# 2169
 Delta R.T. 0.01 min
 Lab File: VL026177.D
 Acq: 9 Oct 2015 14:13

Tgt Ion: 95 Resp: 2178325
 Ion Ratio Lower Upper
 95 100
 174 64.5 52.2 78.4
 175 4.7 3.9 5.9





#78

Hexachloro-1,3-Butadiene

Concen: 0.04 ppbv

RT: 24.69 min Scan# 3544

Delta R.T. 0.01 min

Lab File: VL026177.D

Acq: 9 Oct 2015 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

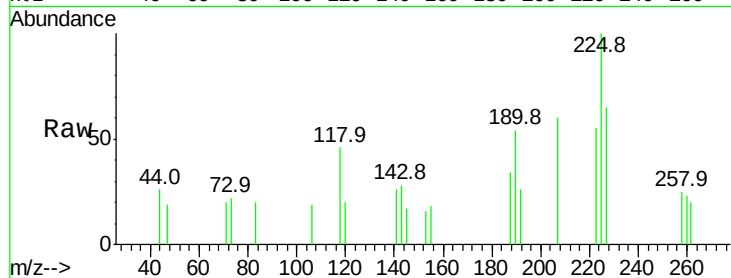
Tgt Ion:225 Resp: 4097

Ion Ratio Lower Upper

225 100

223 56.5 51.1 76.7

227 52.5 50.8 76.2



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

