

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042518\
 Data File : VX001123.D
 Acq On : 25 Apr 2018 16:34
 Operator : JC/MD
 Sample : J2377-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 26 04:36:35 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	245130	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	340982	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	170398	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	181472	58.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.80%	
35) Dibromofluoromethane	5.51	113	137130	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	
50) Toluene-d8	8.72	98	525259	54.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.26%	
62) 4-Bromofluorobenzene	11.14	95	182300	45.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.36%	

Target Compounds

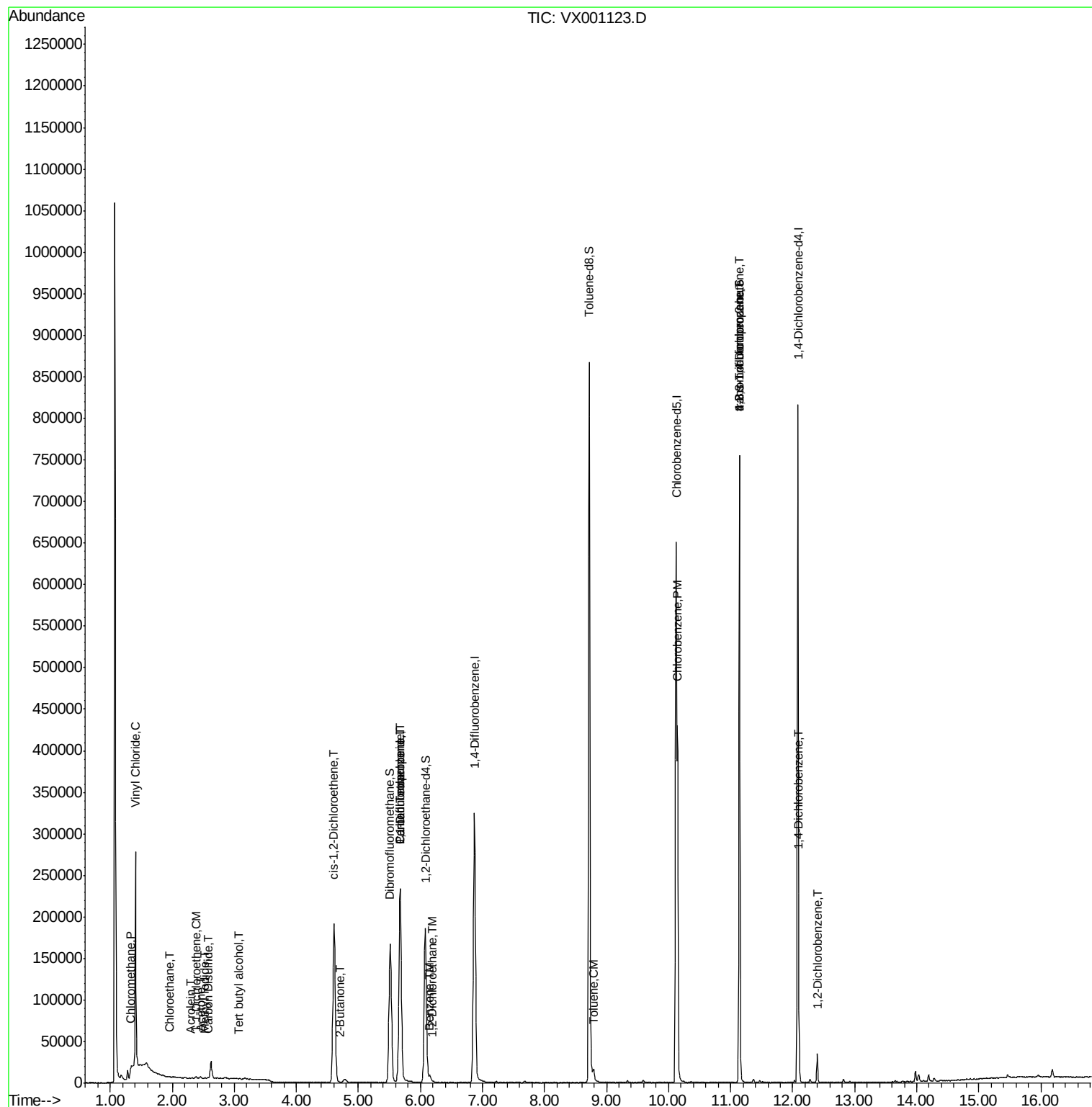
					Qvalue
3) Chloromethane	1.32	50	793	0.280 ug/l #	70
4) Vinyl Chloride	1.40	62	164148	55.946 ug/l	100
5) Bromomethane	1.65	94	567	Below Cal #	61
6) Chloroethane	1.96	64	548	0.314 ug/l #	50
10) Methyl Iodide	2.52	142	677	7.825 ug/l #	93
11) Tert butyl alcohol	3.07	59	142	0.303 ug/l #	72
12) 1,1-Dichloroethene	2.39	96	595	0.249 ug/l #	67
13) Acrolein	2.30	56	128	11.772 ug/l #	76
16) Acetone	2.45	43	2959	2.529 ug/l	98
17) Carbon Disulfide	2.57	76	1914	0.281 ug/l #	90
20) Methylene Chloride	2.87	84	315	Below Cal #	84
25) 2-Butanone	4.71	43	739	0.405 ug/l #	87
27) cis-1,2-Dichloroethene	4.60	96	119636	40.395 ug/l	89
36) 1,1-Dichloropropene	5.67	75	15691	3.916 ug/l #	50
38) Carbon Tetrachloride	5.67	117	20534	5.061 ug/l #	16
40) Benzene	6.15	78	9005	0.808 ug/l	97
42) 1,2-Dichloroethane	6.20	62	965	0.226 ug/l #	76
52) Toluene	8.79	92	3821	0.526 ug/l	98
65) Chlorobenzene	10.15	112	176512	22.057 ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	94695	32.031 ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	94695	95.160 ug/l #	8
88) 1,4-Dichlorobenzene	12.10	146	14091	2.268 ug/l	89
91) 1,2-Dichlorobenzene	12.40	146	10617	1.812 ug/l	99

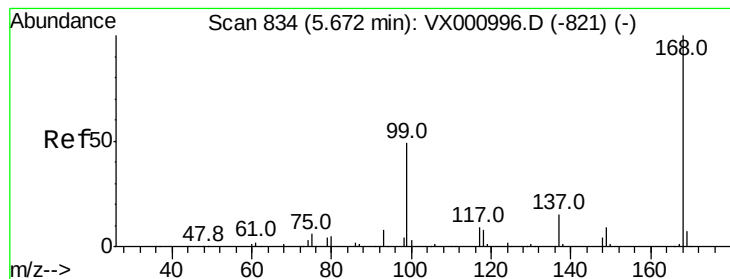
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

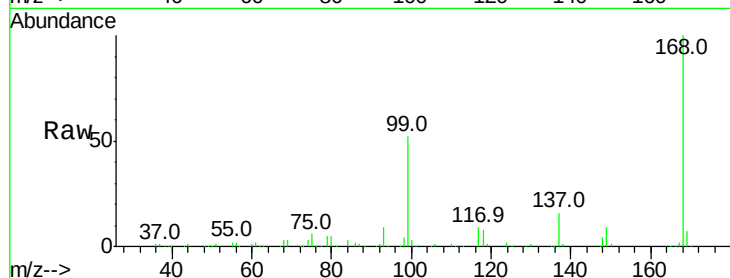
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 245130

Ion Ratio Lower Upper

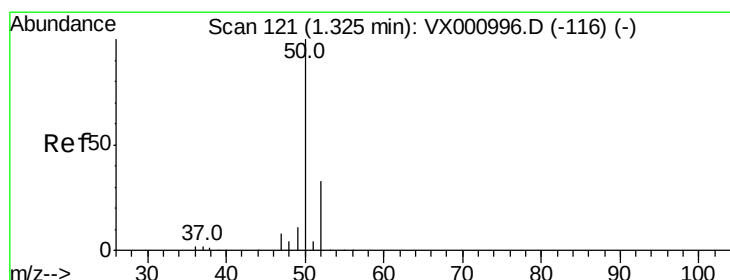
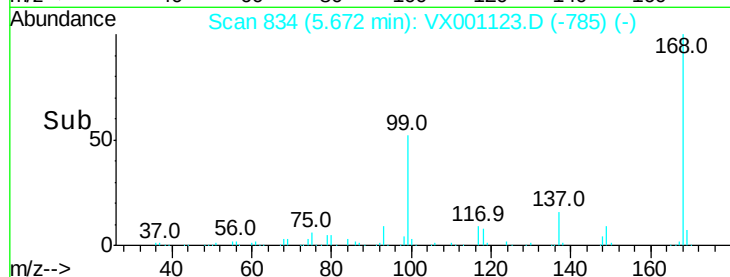
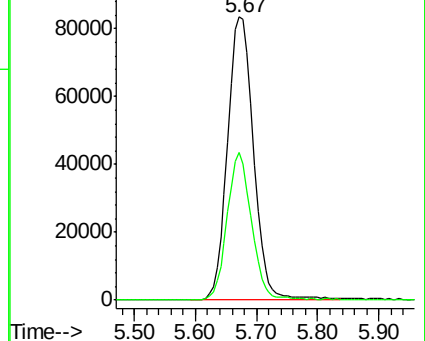
168 100

99 52.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.280 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001123.D

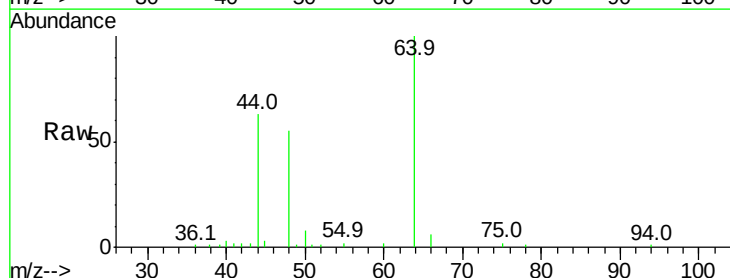
Acq: 25 Apr 2018 16:34

Tgt Ion: 50 Resp: 793

Ion Ratio Lower Upper

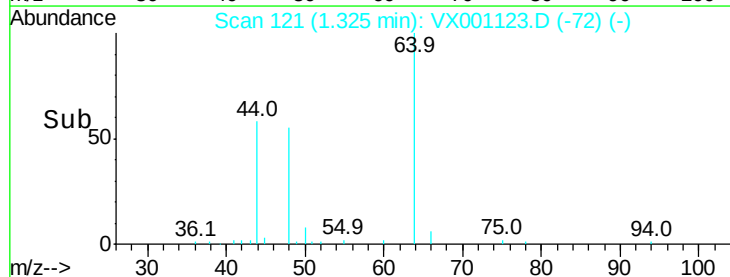
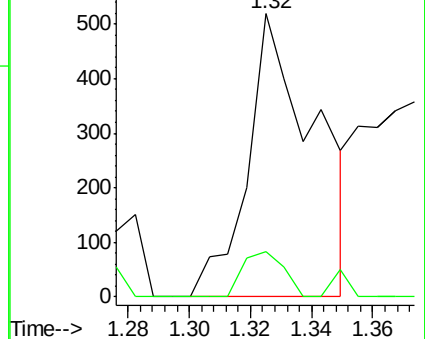
50 100

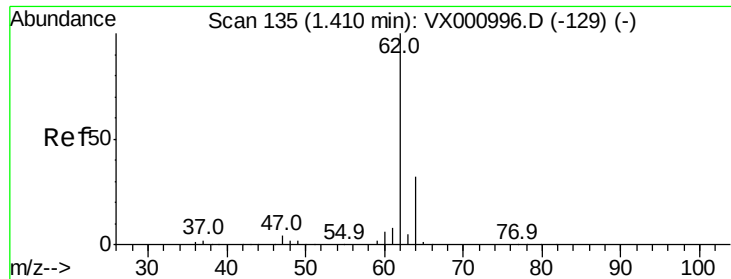
52 16.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 55.946 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

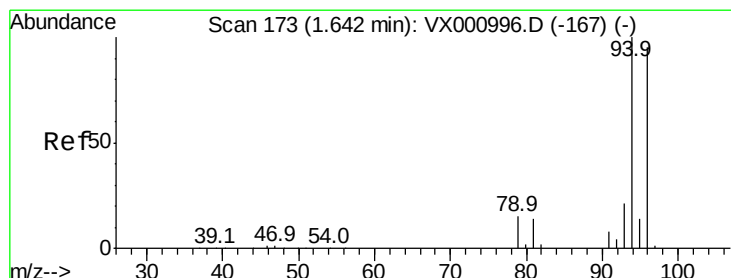
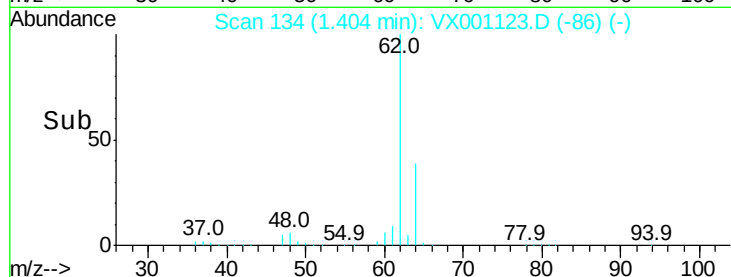
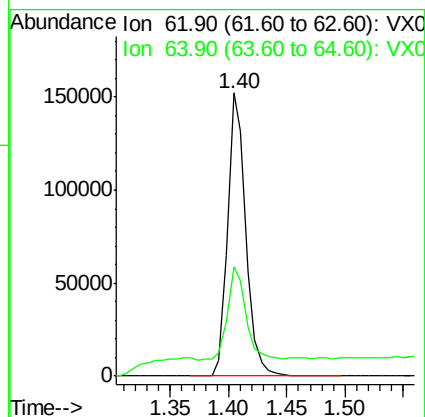
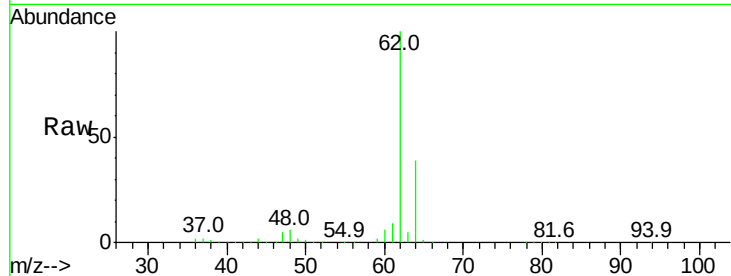
ClientSampleId :

Tot Ion: 62 Resp: 164148

Ion Ratio Lower Upper

62 100

64 32.3 25.6 38.4



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001123.D

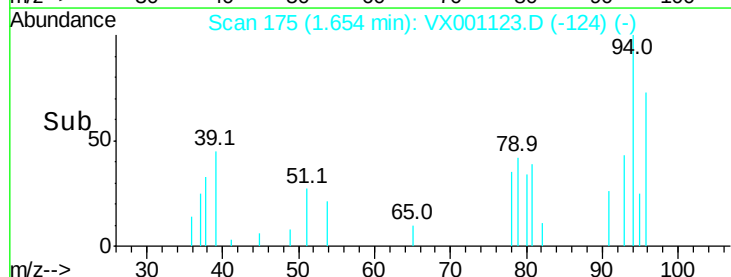
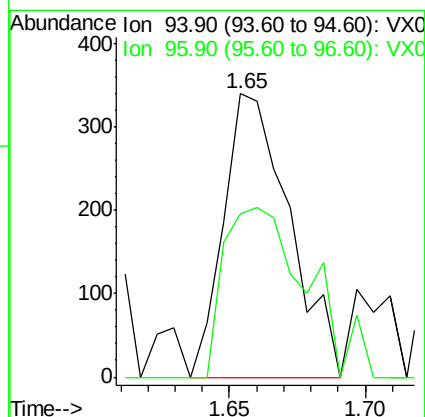
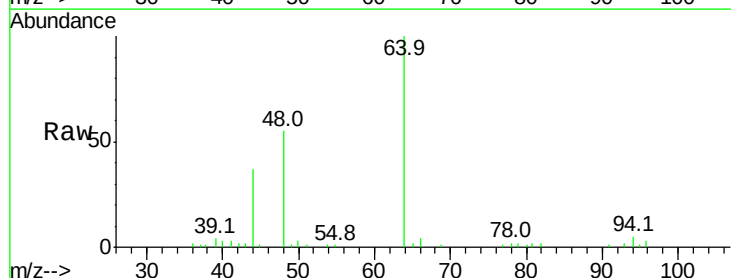
Acq: 25 Apr 2018 16:34

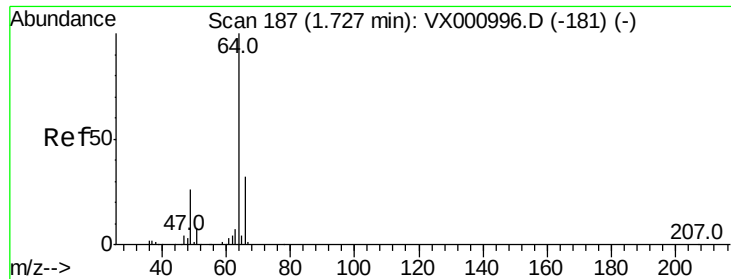
Tgt Ion: 94 Resp: 567

Ion Ratio Lower Upper

94 100

96 57.5 76.0 114.0#





#6

Chloroethane

Concen: 0.314 ug/l

RT: 1.96 min Scan# 225

Delta R.T. 0.23 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

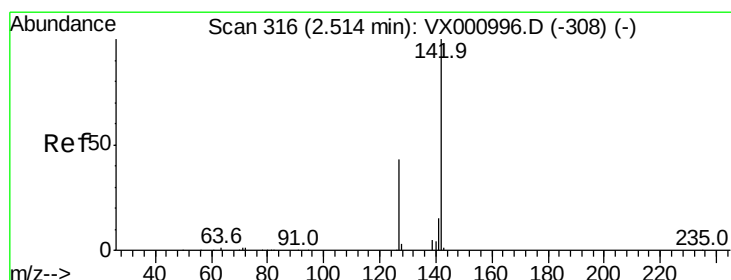
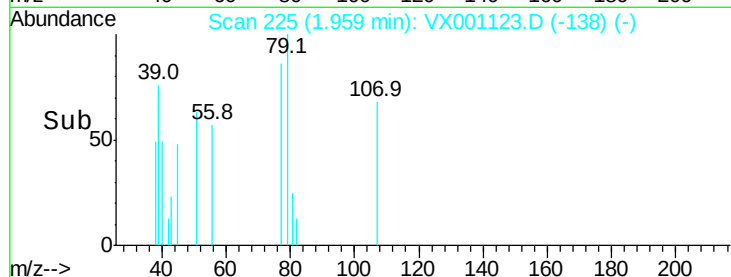
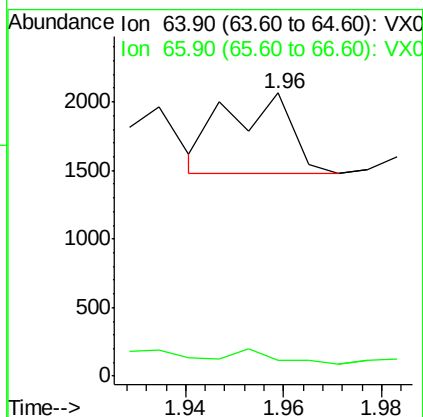
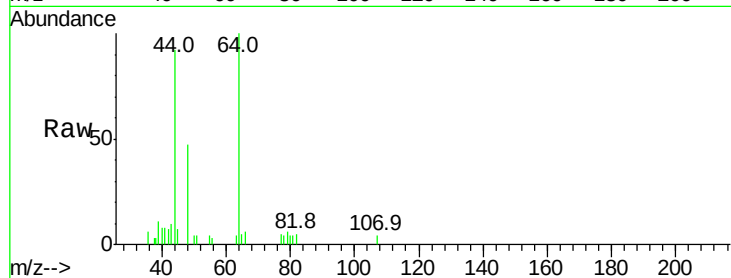
ClientSampleId :

Tot Ion: 64 Resp: 548

Ion Ratio Lower Upper

64 100

66 3.7 25.3 37.9#



#10

Methyl Iodide

Concen: 7.825 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

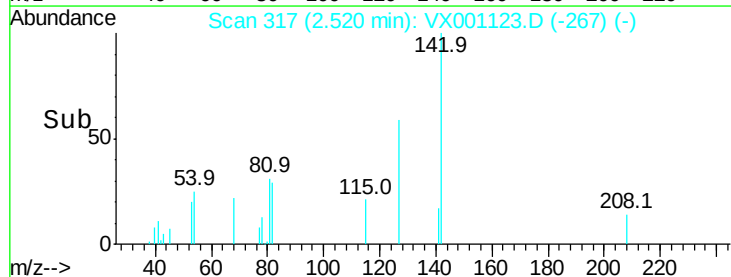
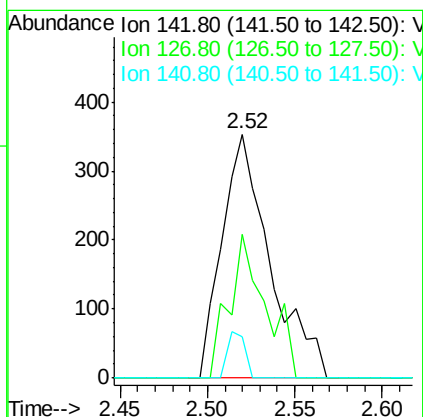
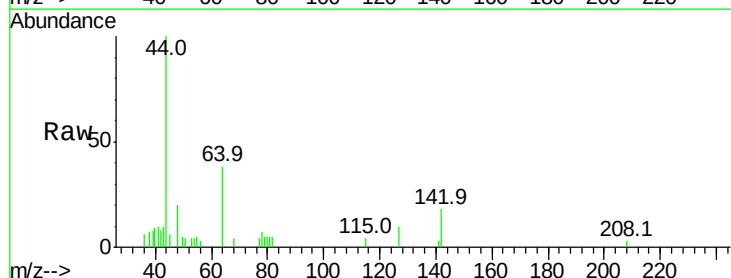
Tgt Ion: 142 Resp: 677

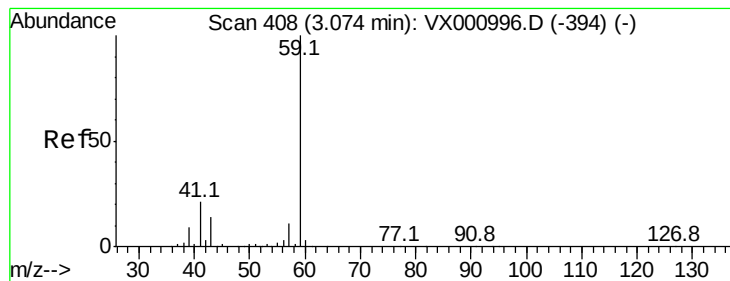
Ion Ratio Lower Upper

142 100

127 44.8 34.0 51.0

141 6.8 11.4 17.2#



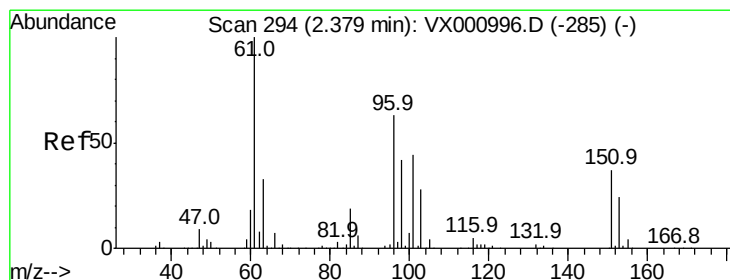
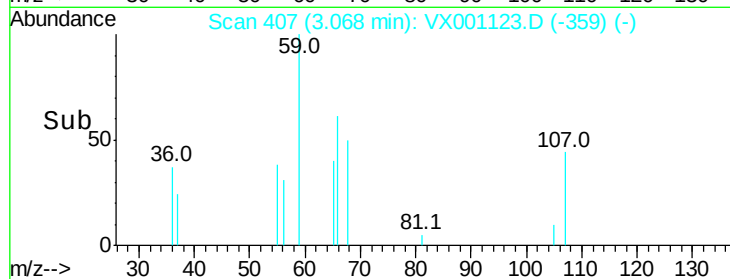
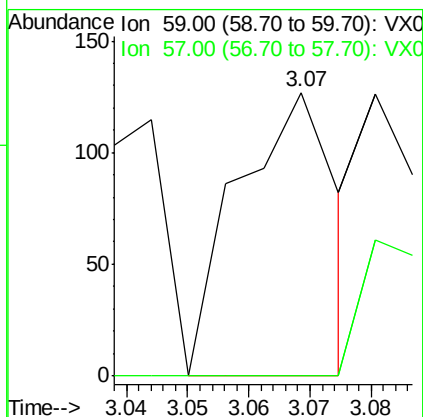
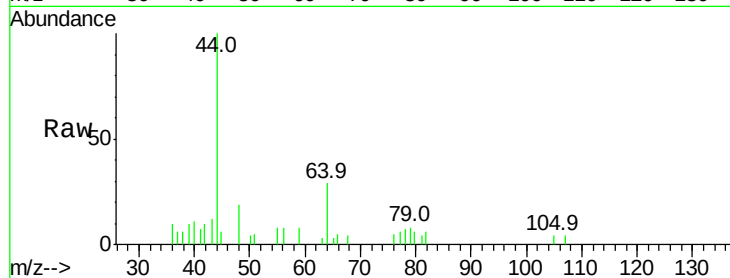


#11

Tert butyl alcohol
Concen: 0.303 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX001123.D
Acq: 25 Apr 2018 16:34

Instrument :
MSVOA_X
ClientSampled :

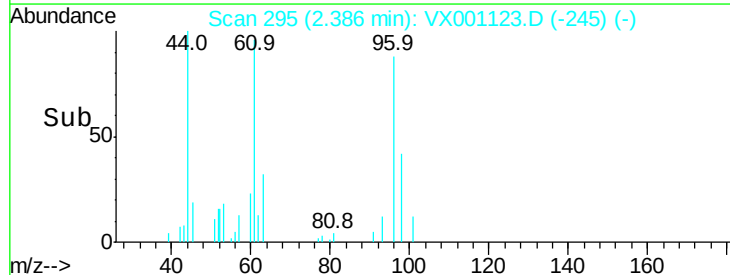
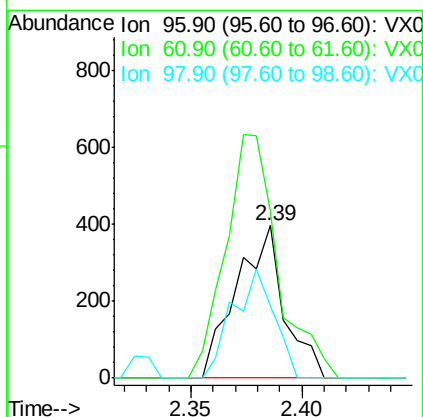
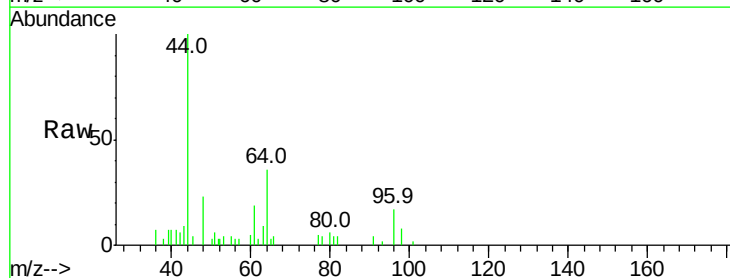
Tot Ion: 59 Resp: 142
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

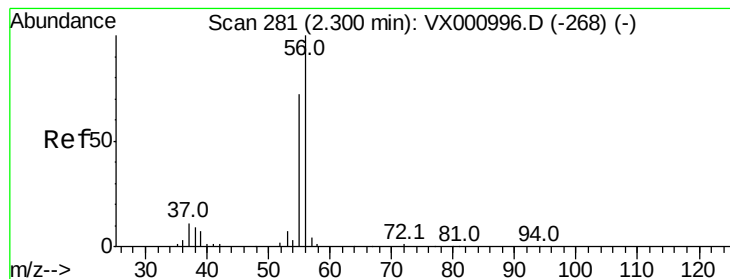


#12

1,1-Dichloroethene
Concen: 0.249 ug/l
RT: 2.39 min Scan# 295
Delta R.T. 0.01 min
Lab File: VX001123.D
Acq: 25 Apr 2018 16:34

Tgt Ion: 96 Resp: 595
Ion Ratio Lower Upper
96 100
61 109.8 126.4 189.6#
98 47.6 52.6 78.8#





#13

Acrolein

Concen: 11.772 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

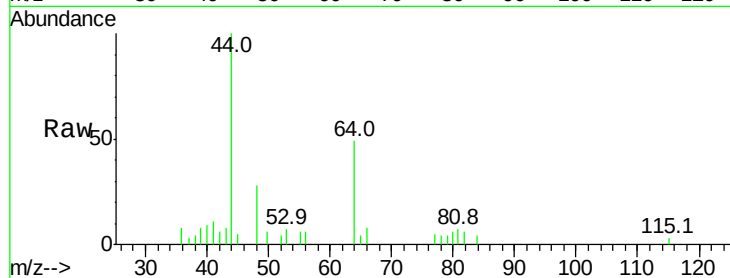
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 128

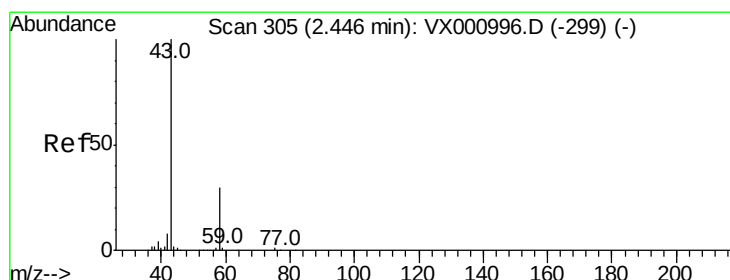
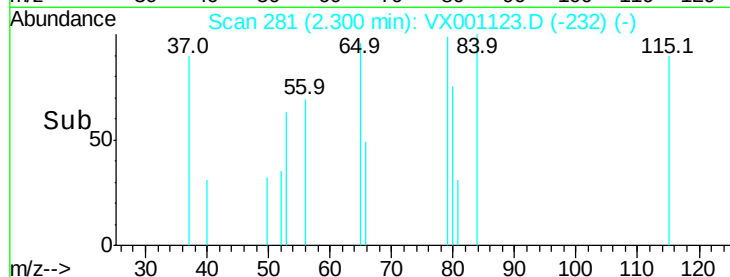
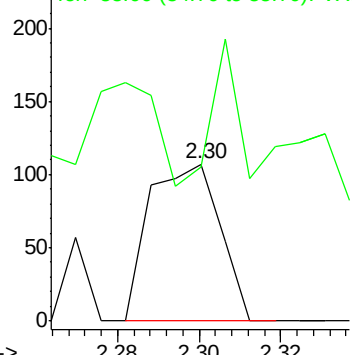
Ion Ratio Lower Upper

56 100

55 51.6 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.529 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001123.D

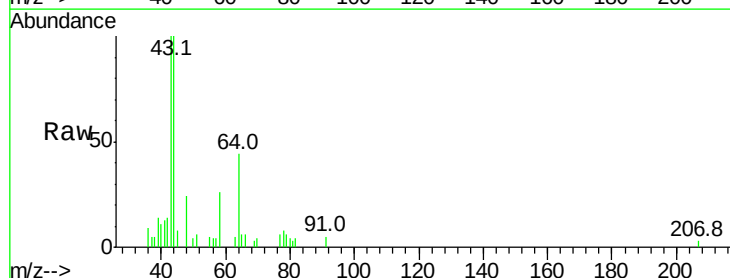
Acq: 25 Apr 2018 16:34

Tgt Ion: 43 Resp: 2959

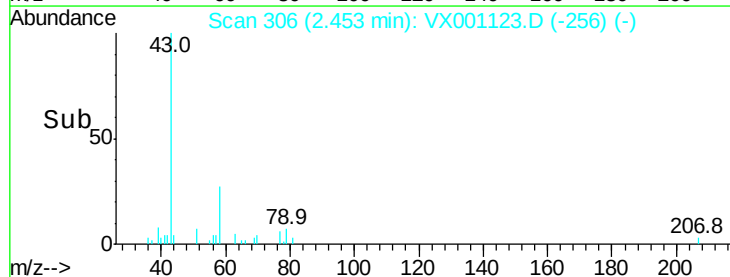
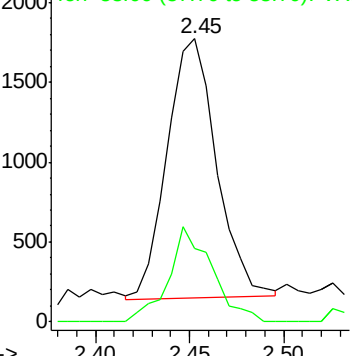
Ion Ratio Lower Upper

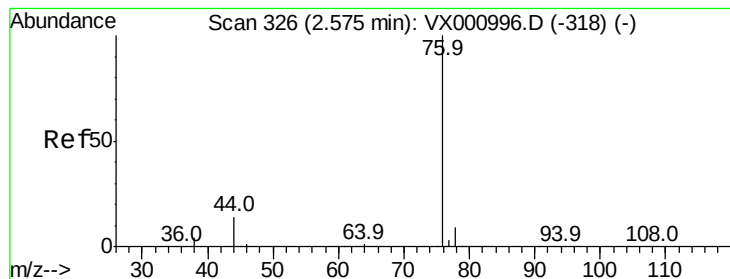
43 100

58 28.4 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.281 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

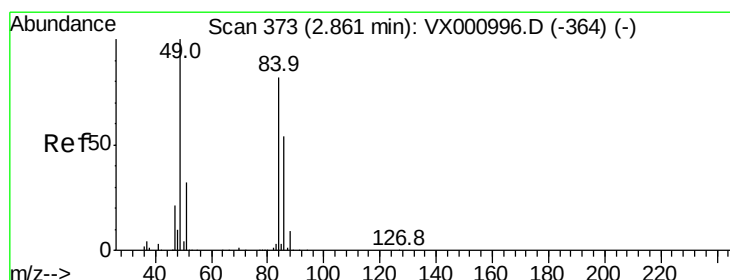
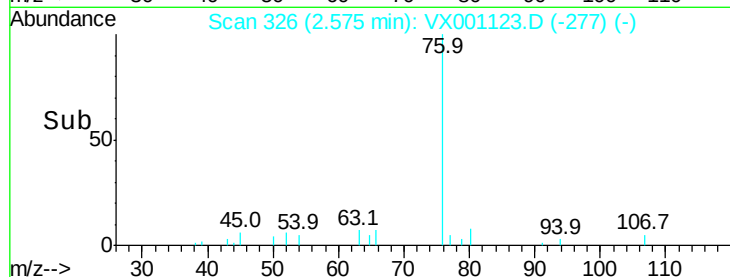
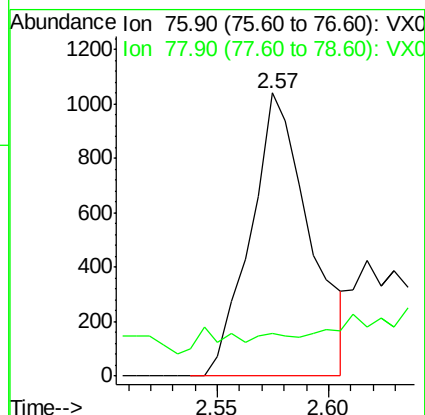
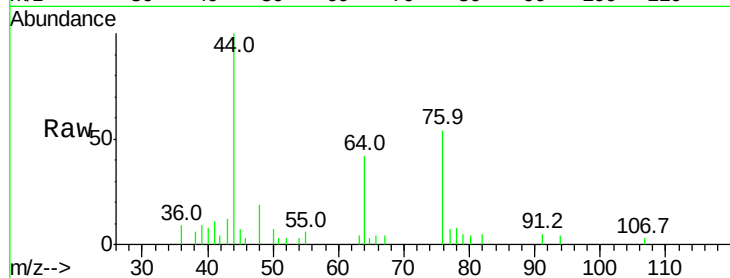
ClientSampleId :

Tot Ion: 76 Resp: 1914

Ion Ratio Lower Upper

76 100

78 5.4 7.3 10.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Tgt Ion: 84 Resp: 315

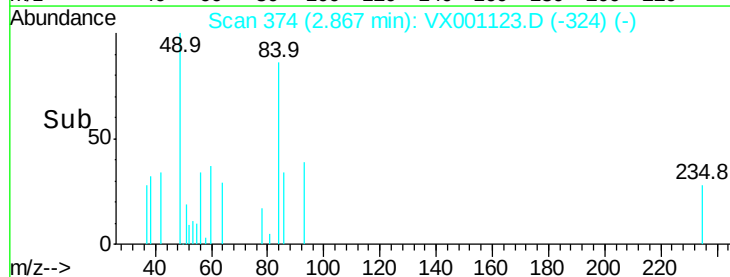
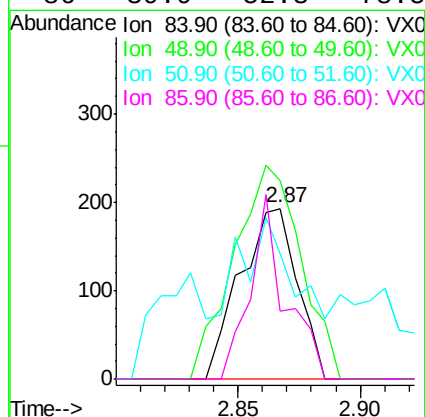
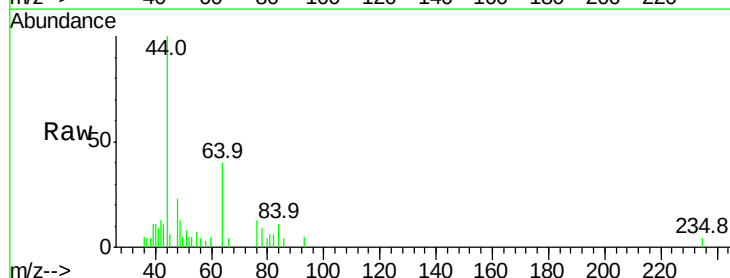
Ion Ratio Lower Upper

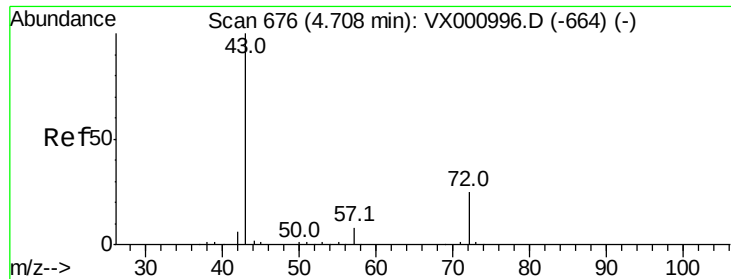
84 100

49 116.6 97.1 145.7

51 23.8 30.8 46.2#

86 39.9 52.3 78.5#





#25

2-Butanone

Concen: 0.405 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

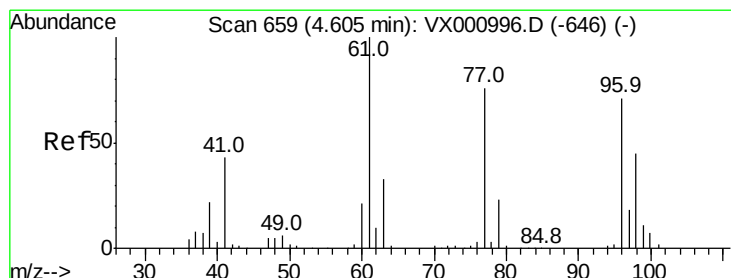
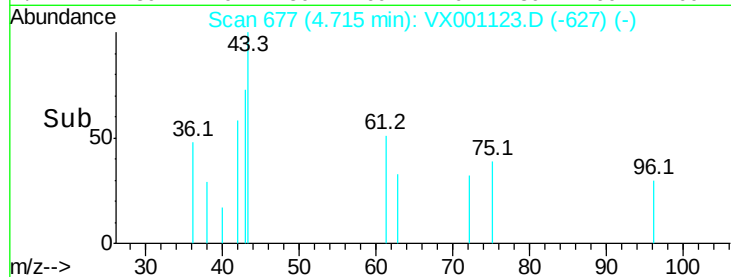
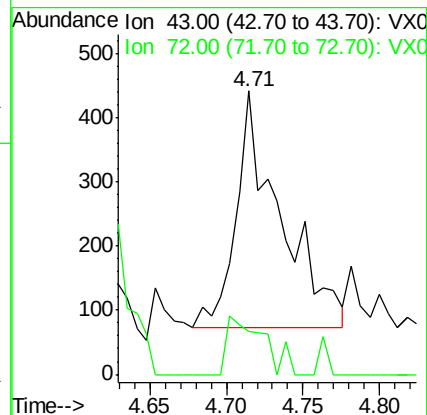
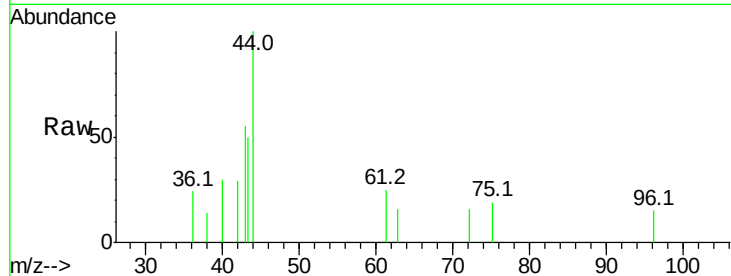
ClientSampled :

Tot Ion: 43 Resp: 739

Ion Ratio Lower Upper

43 100

72 18.2 19.9 29.9#



#27

cis-1,2-Dichloroethene

Concen: 40.395 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

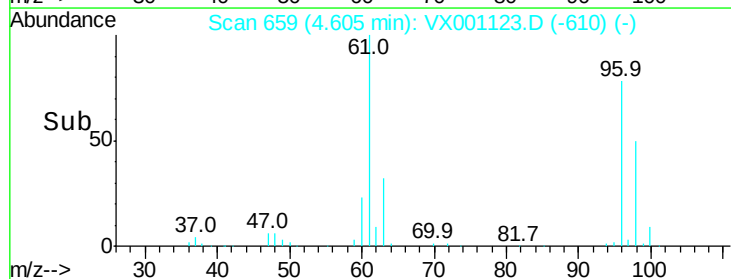
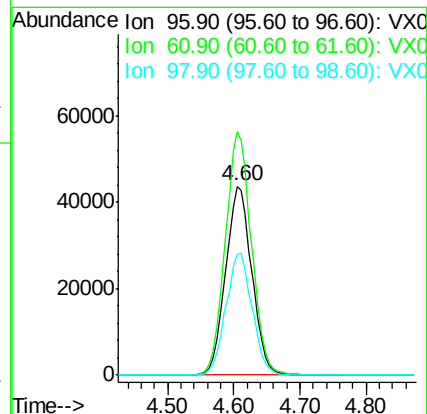
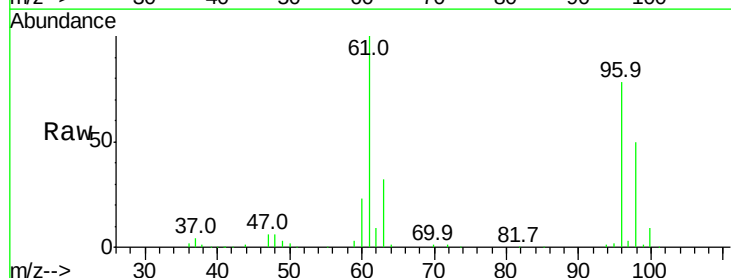
Tgt Ion: 96 Resp: 119636

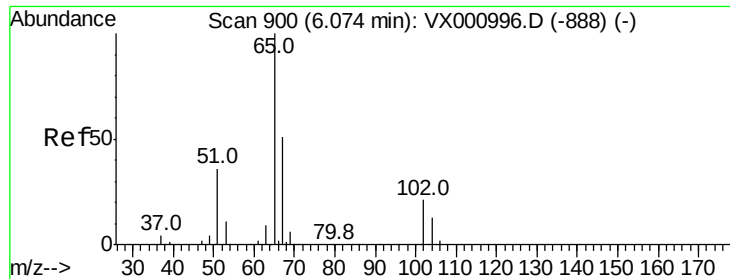
Ion Ratio Lower Upper

96 100

61 128.8 0.0 297.0

98 64.9 0.0 130.0





#33

1,2-Dichloroethane-d4

Concen: 58.401 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

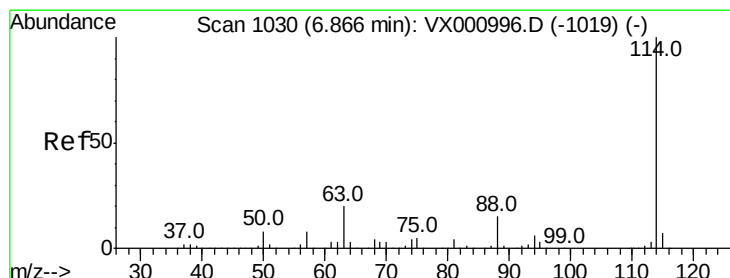
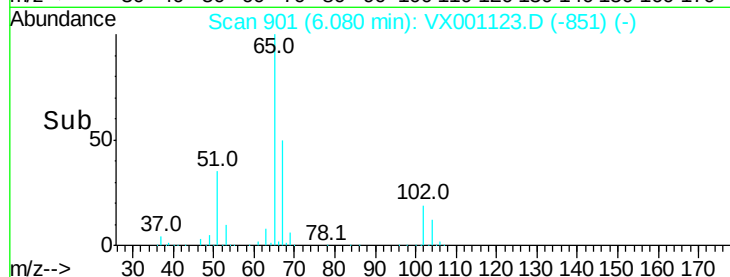
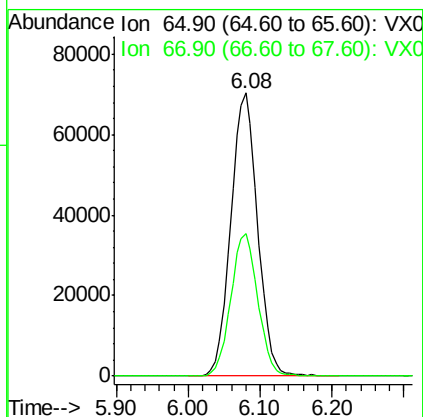
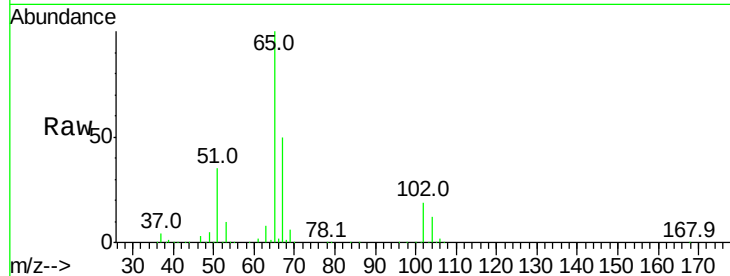
ClientSampleId :

Tot Ion: 65 Resp: 181472

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

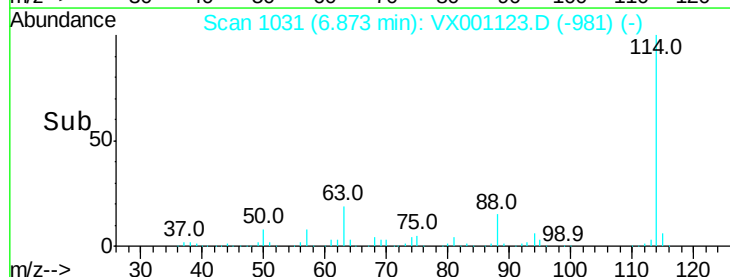
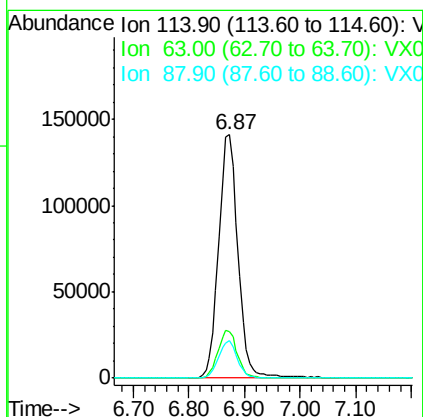
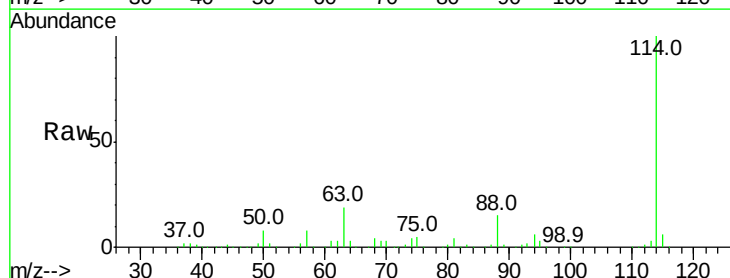
Tgt Ion:114 Resp: 340982

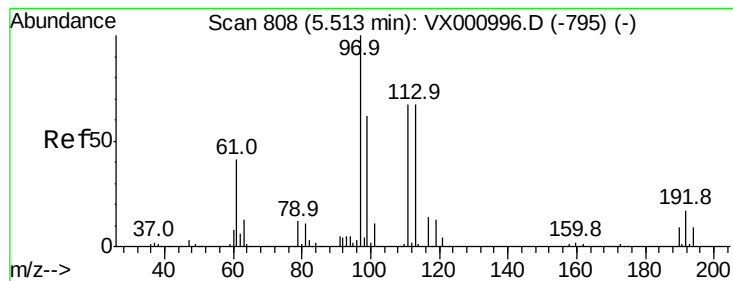
Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.4

88 15.2 0.0 29.8





#35

Dibromofluoromethane

Concen: 52.740 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

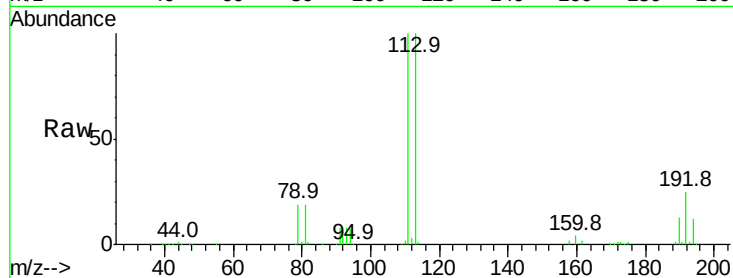
Tot Ion:113 Resp: 137130

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

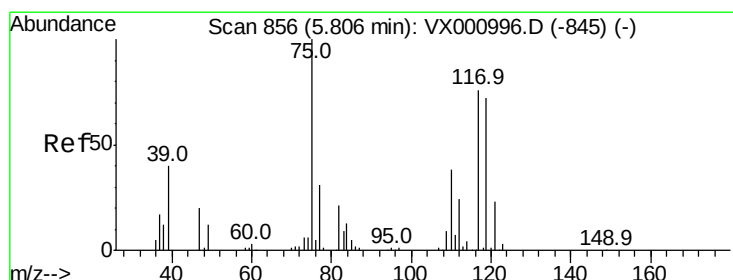
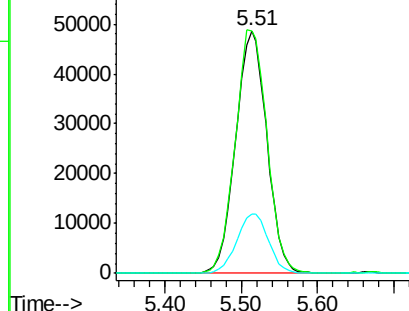
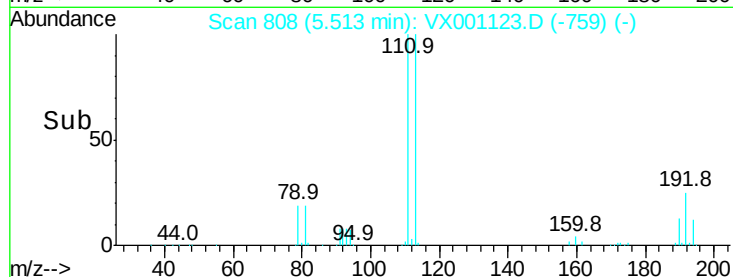
192 25.0 20.4 30.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.916 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

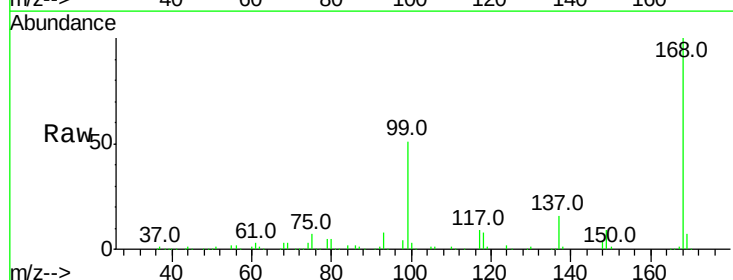
Tgt Ion: 75 Resp: 15691

Ion Ratio Lower Upper

75 100

110 10.4 18.7 56.1#

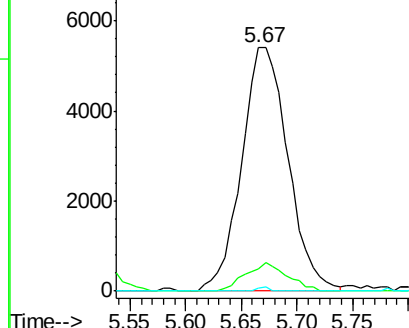
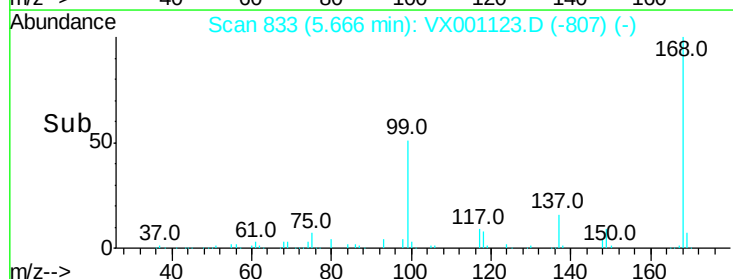
77 0.3 25.0 37.4#

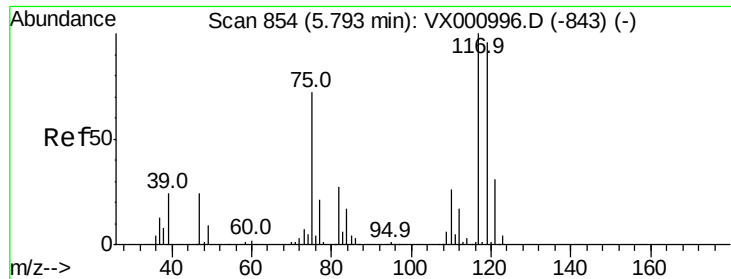


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.061 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

ClientSampled :

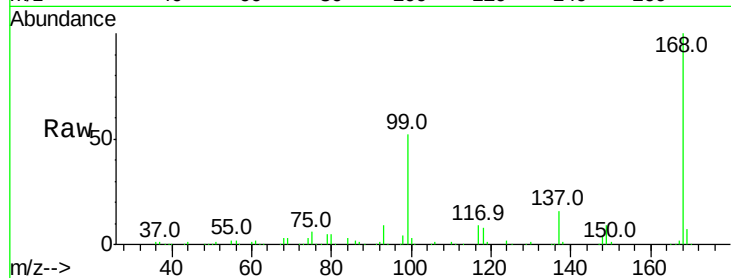
Tot Ion:117 Resp: 20534

Ion Ratio Lower Upper

117 100

119 5.6 76.5 114.7#

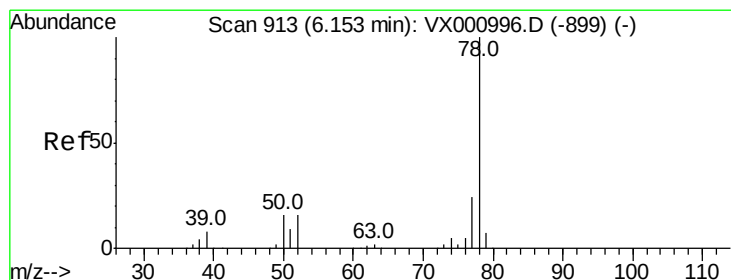
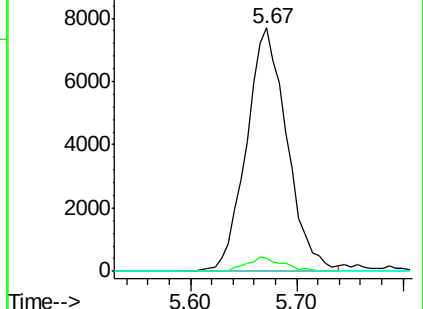
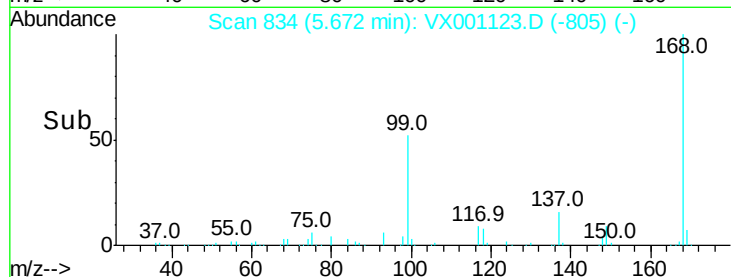
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.808 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.01 min

Lab File: VX001123.D

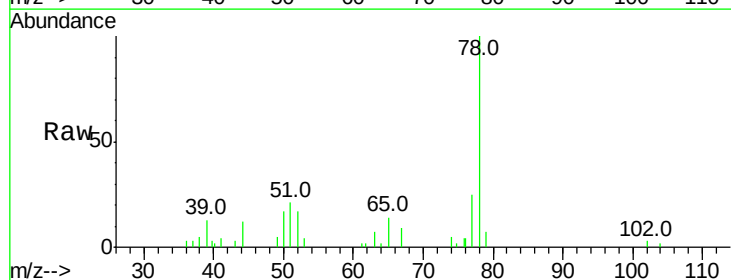
Acq: 25 Apr 2018 16:34

Tgt Ion: 78 Resp: 9005

Ion Ratio Lower Upper

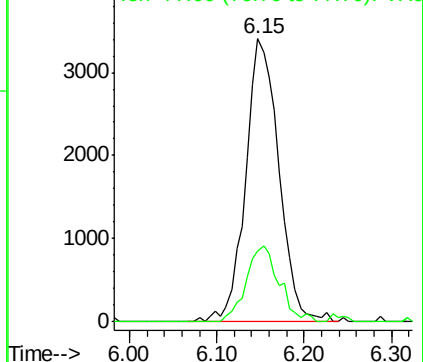
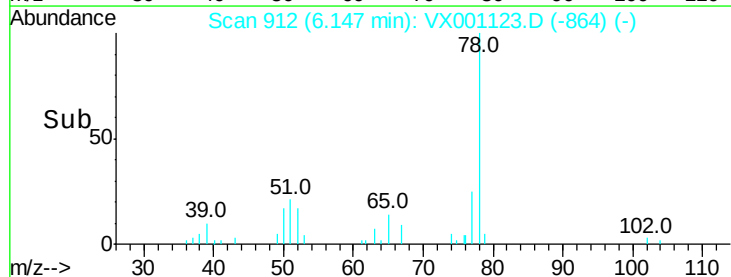
78 100

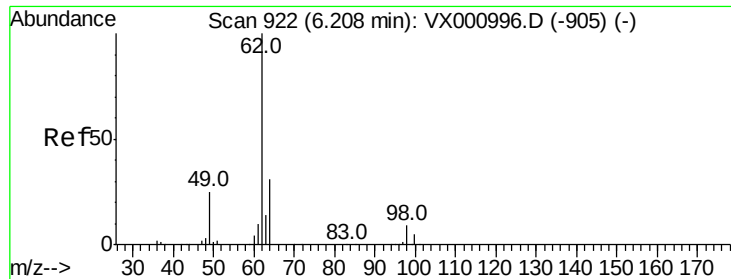
77 25.0 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.226 ug/l

RT: 6.20 min Scan# 921

Delta R.T. -0.01 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

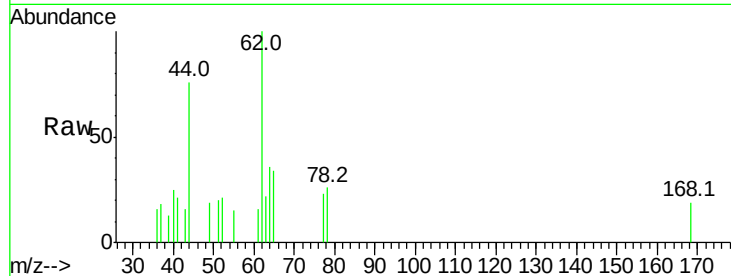
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 62 Resp: 965

Ion Ratio Lower Upper

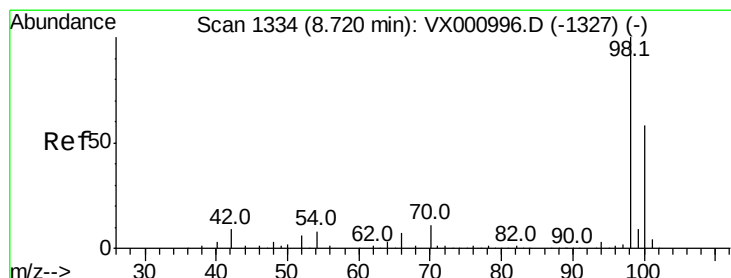
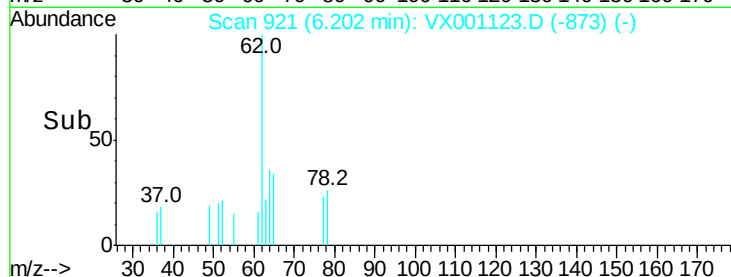
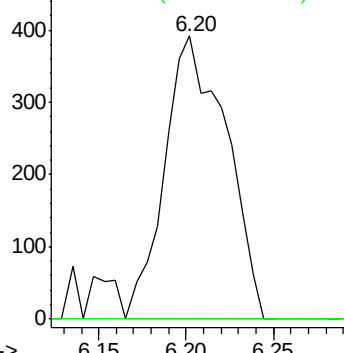
62 100

98 0.0 0.0 17.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#50

Toluene-d8

Concen: 54.633 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001123.D

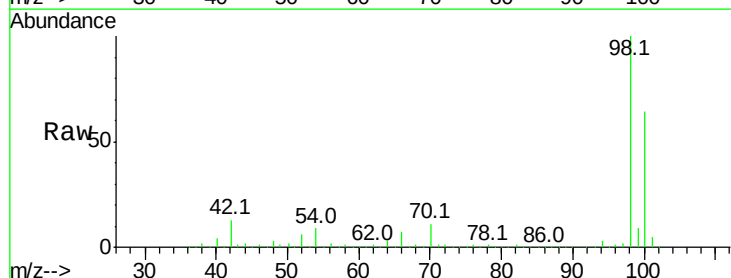
Acq: 25 Apr 2018 16:34

Tgt Ion: 98 Resp: 525259

Ion Ratio Lower Upper

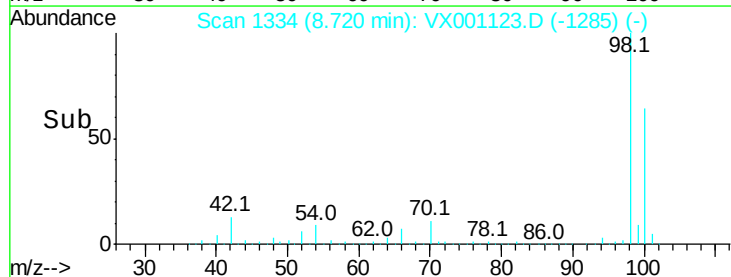
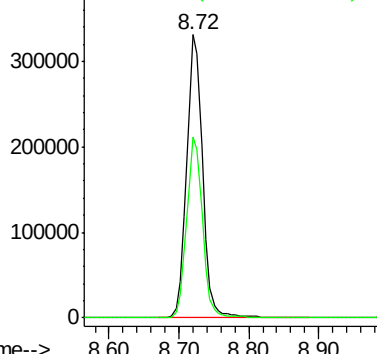
98 100

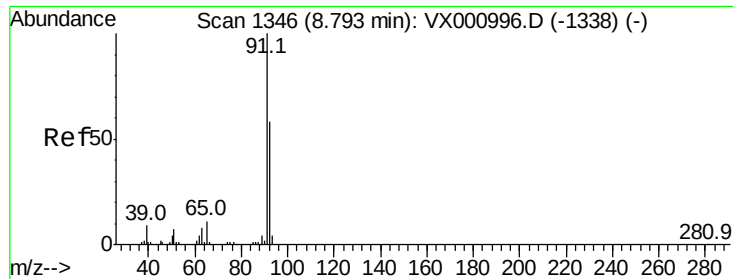
100 63.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 0.526 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

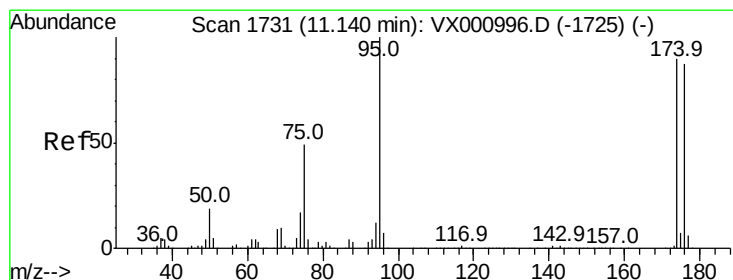
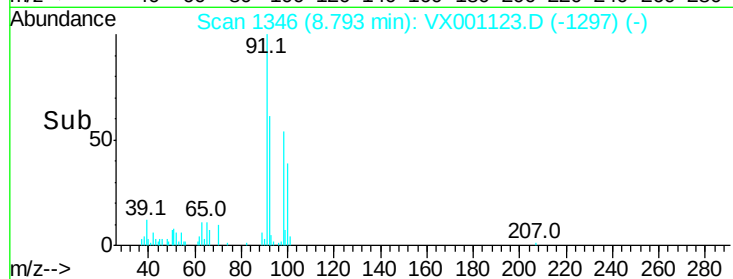
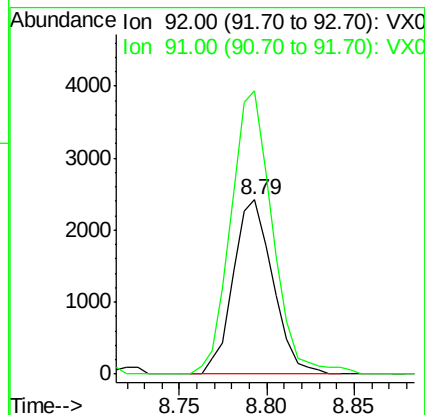
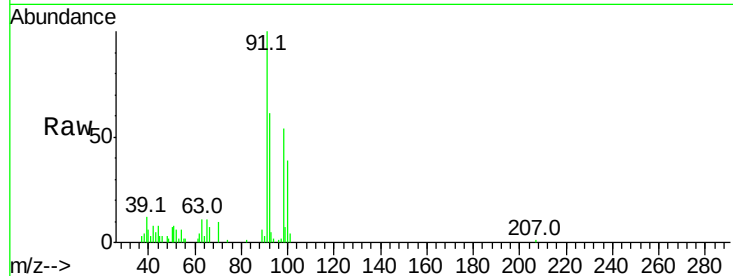
ClientSampleId :

Tot Ion: 92 Resp: 3821

Ion Ratio Lower Upper

92 100

91 170.3 138.2 207.4



#62

4-Bromofluorobenzene

Concen: 45.181 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

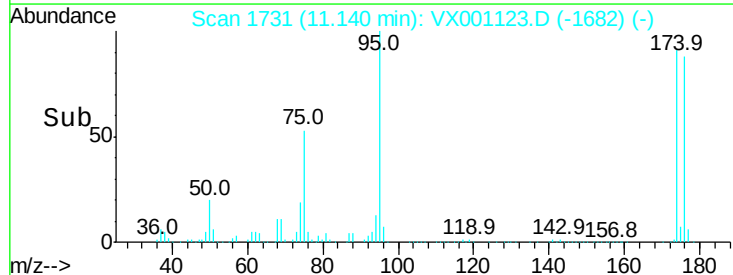
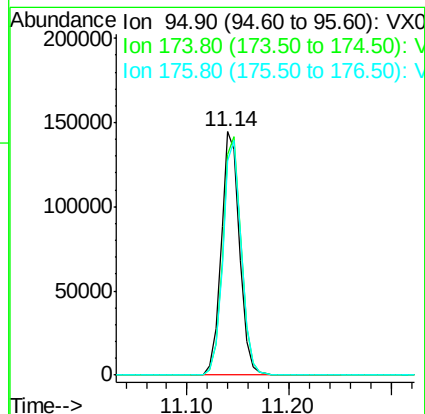
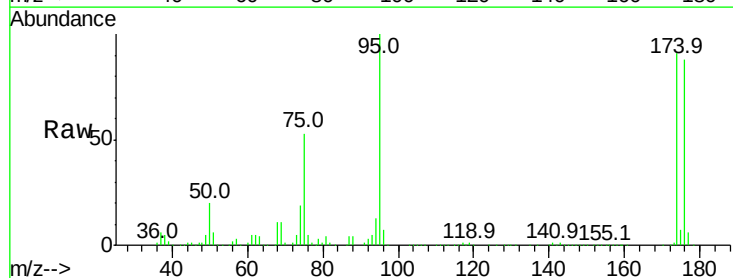
Tgt Ion: 95 Resp: 182300

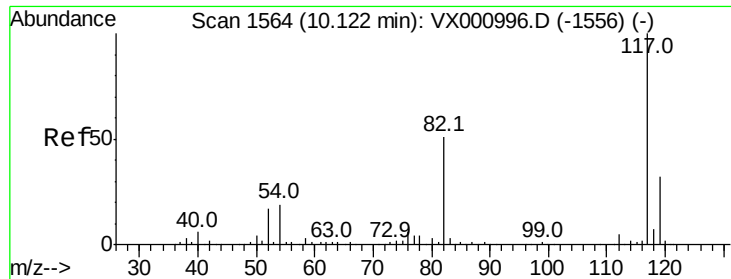
Ion Ratio Lower Upper

95 100

174 97.7 0.0 198.4

176 95.8 0.0 192.0

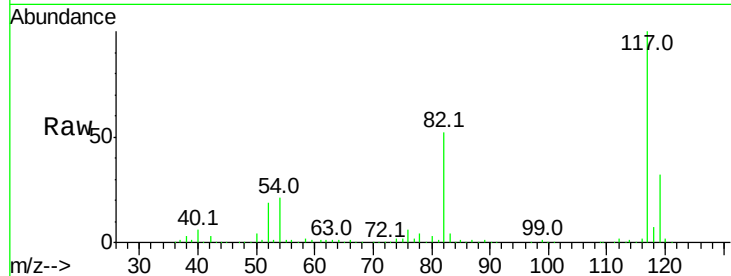




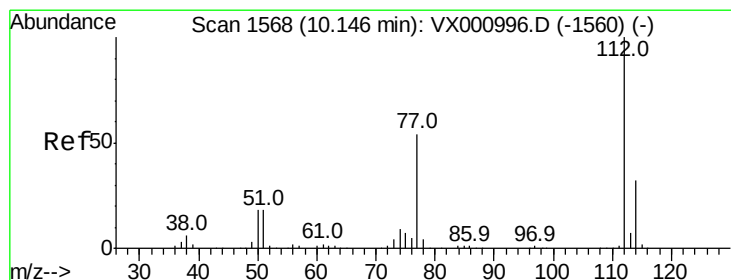
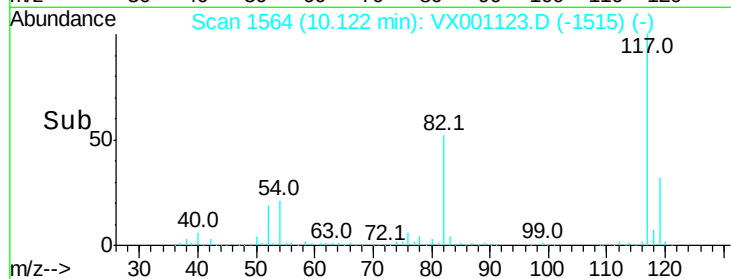
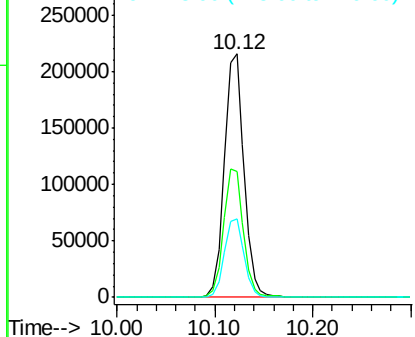
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001123.D
Acq: 25 Apr 2018 16:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 300536
Ion Ratio Lower Upper
117 100
82 51.9 40.6 60.8
119 32.4 26.0 39.0

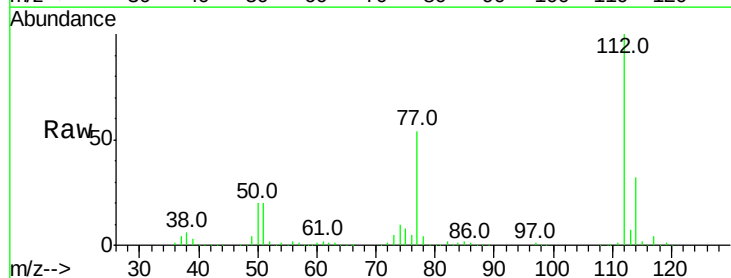


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

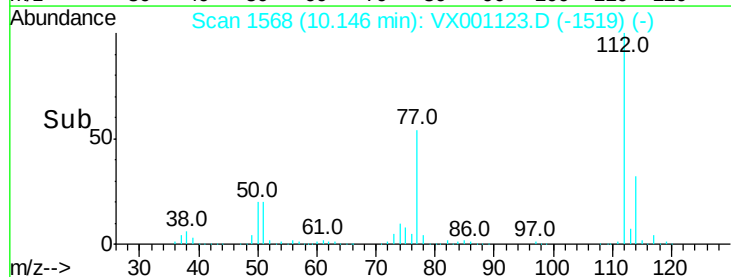
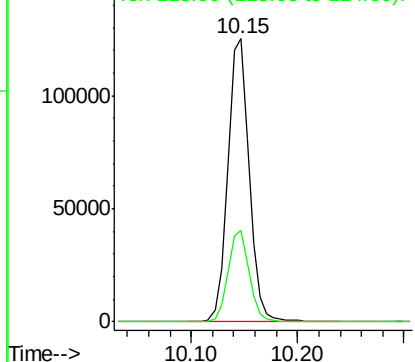


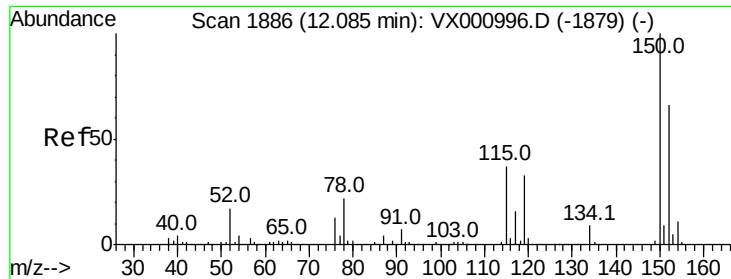
#65
Chlorobenzene
Concen: 22.057 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX001123.D
Acq: 25 Apr 2018 16:34

Tgt Ion:112 Resp: 176512
Ion Ratio Lower Upper
112 100
114 32.3 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

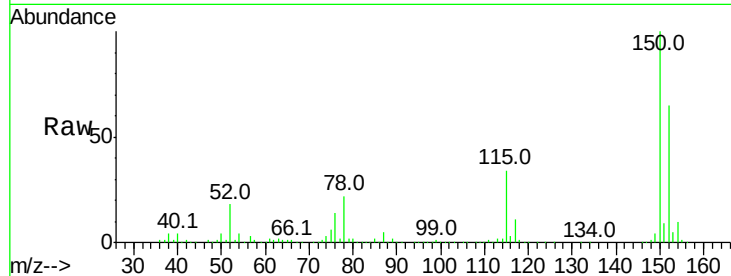
Tot Ion:152 Resp: 170398

Ion Ratio Lower Upper

152 100

115 54.1 38.2 114.6

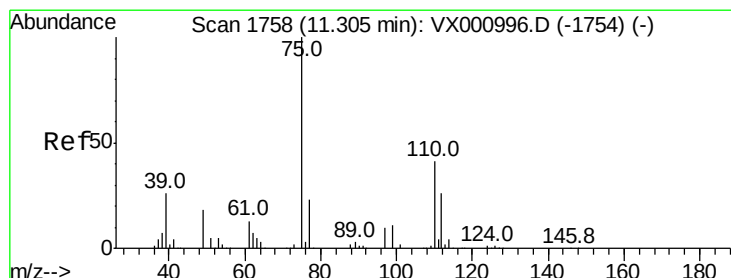
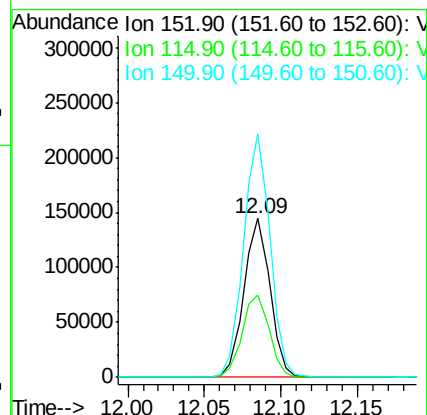
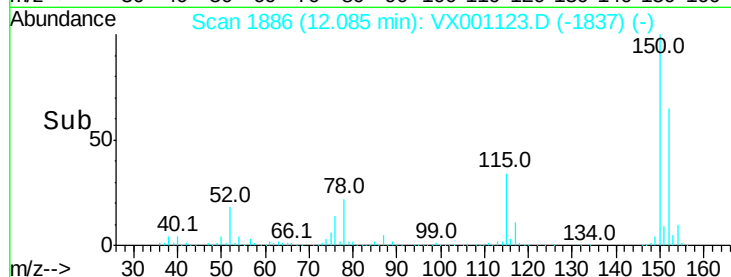
150 156.2 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 32.031 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001123.D

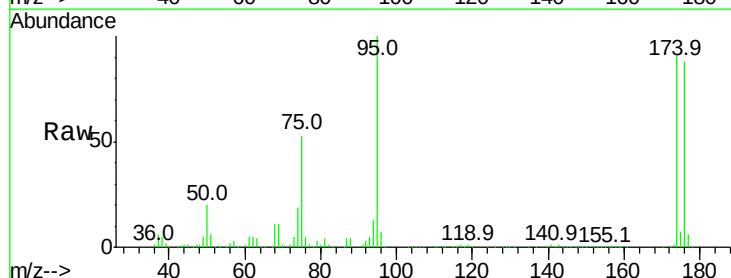
Acq: 25 Apr 2018 16:34

Tgt Ion: 75 Resp: 94695

Ion Ratio Lower Upper

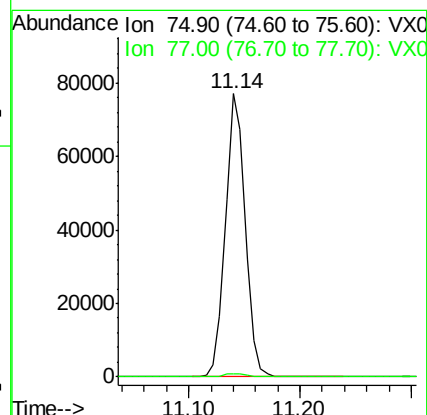
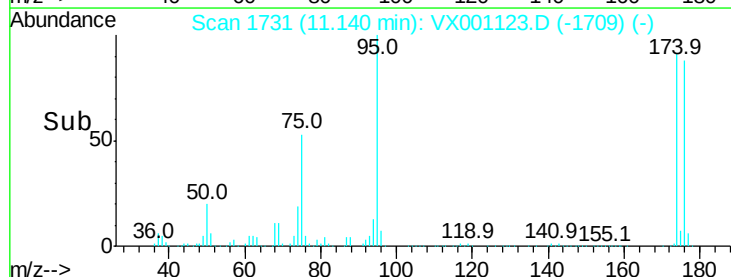
75 100

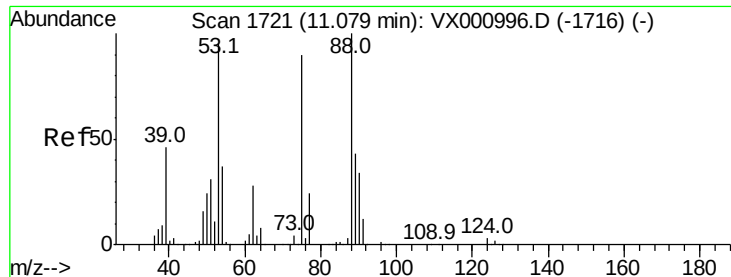
77 1.3 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

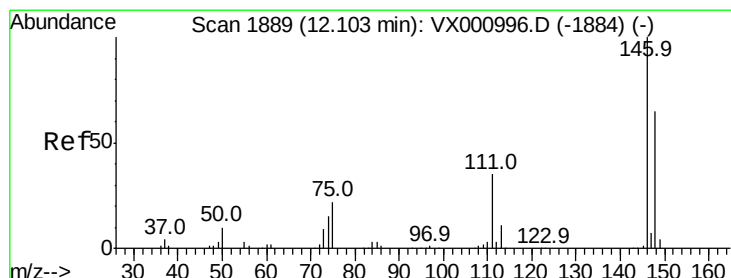
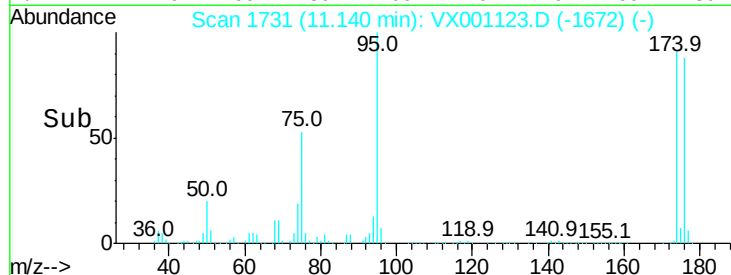
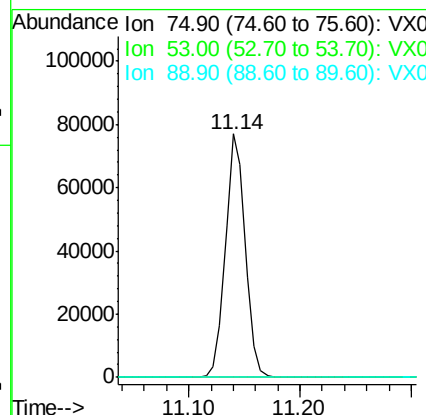
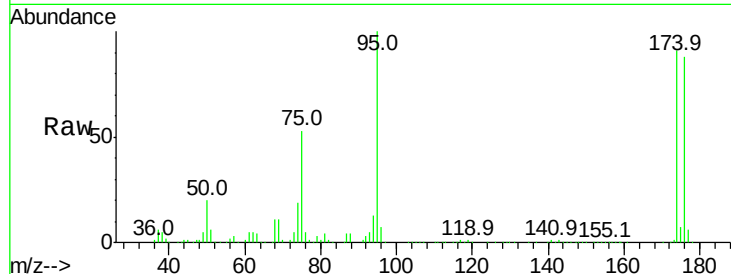




#81
trans-1,4-Dichloro-2-butene
Concen: 95.160 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX001123.D
Acq: 25 Apr 2018 16:34

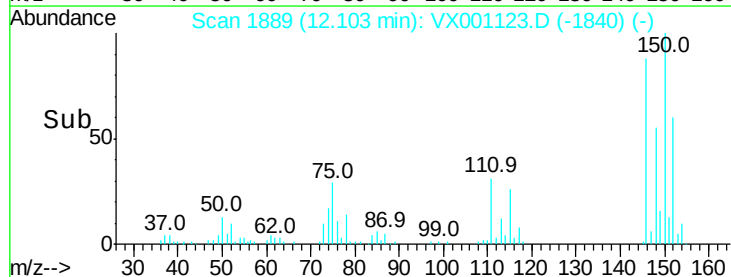
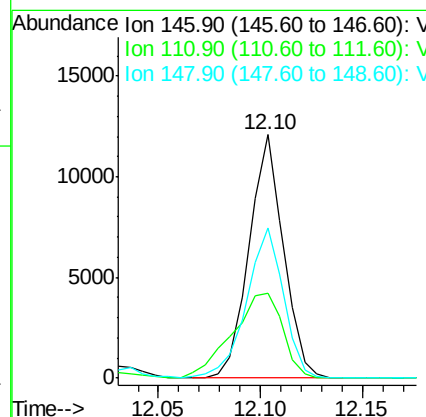
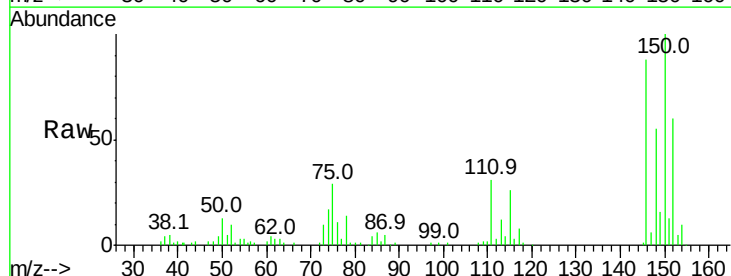
Instrument :
MSVOA_X
ClientSampled :

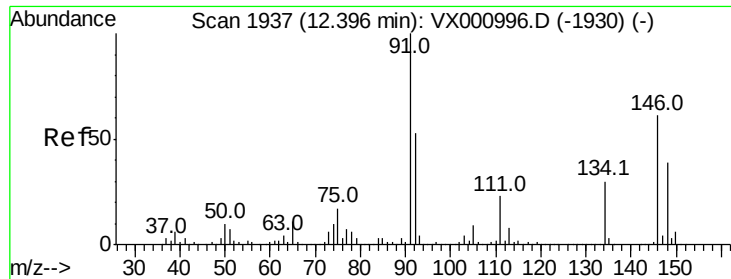
Tot Ion: 75 Resp: 94695
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 39.7 59.5#



#88
1,4-Dichlorobenzene
Concen: 2.268 ug/l
RT: 12.10 min Scan# 1889
Delta R.T. 0.00 min
Lab File: VX001123.D
Acq: 25 Apr 2018 16:34

Tgt Ion: 146 Resp: 14091
Ion Ratio Lower Upper
146 100
111 51.0 18.0 54.0
148 66.8 32.4 97.0





#91

1,2-Dichlorobenzene

Concen: 1.812 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX001123.D

Acq: 25 Apr 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

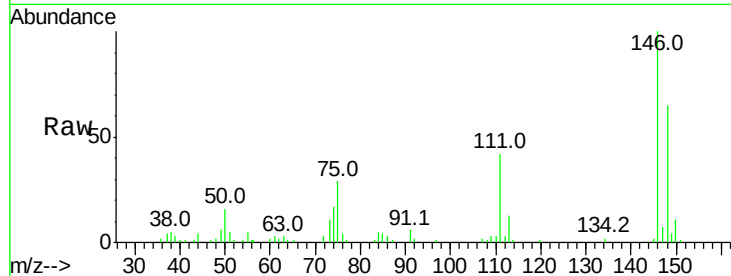
Tot Ion:146 Resp: 10617

Ion Ratio Lower Upper

146 100

111 39.3 18.6 56.0

148 64.7 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

