

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\
 Data File : VX000944.D
 Acq On : 17 Apr 2018 02:52
 Operator : JC/MD
 Sample : PB108244ZHE#11 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 17 05:53:02 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	268258	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	369400	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337153	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	210826	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	166060	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
35) Dibromofluoromethane	5.51	113	131274	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
50) Toluene-d8	8.72	98	511866	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
62) 4-Bromofluorobenzene	11.14	95	189964	43.33	ug/l	0.00
Spiked Amount			Recovery	=	86.66%	

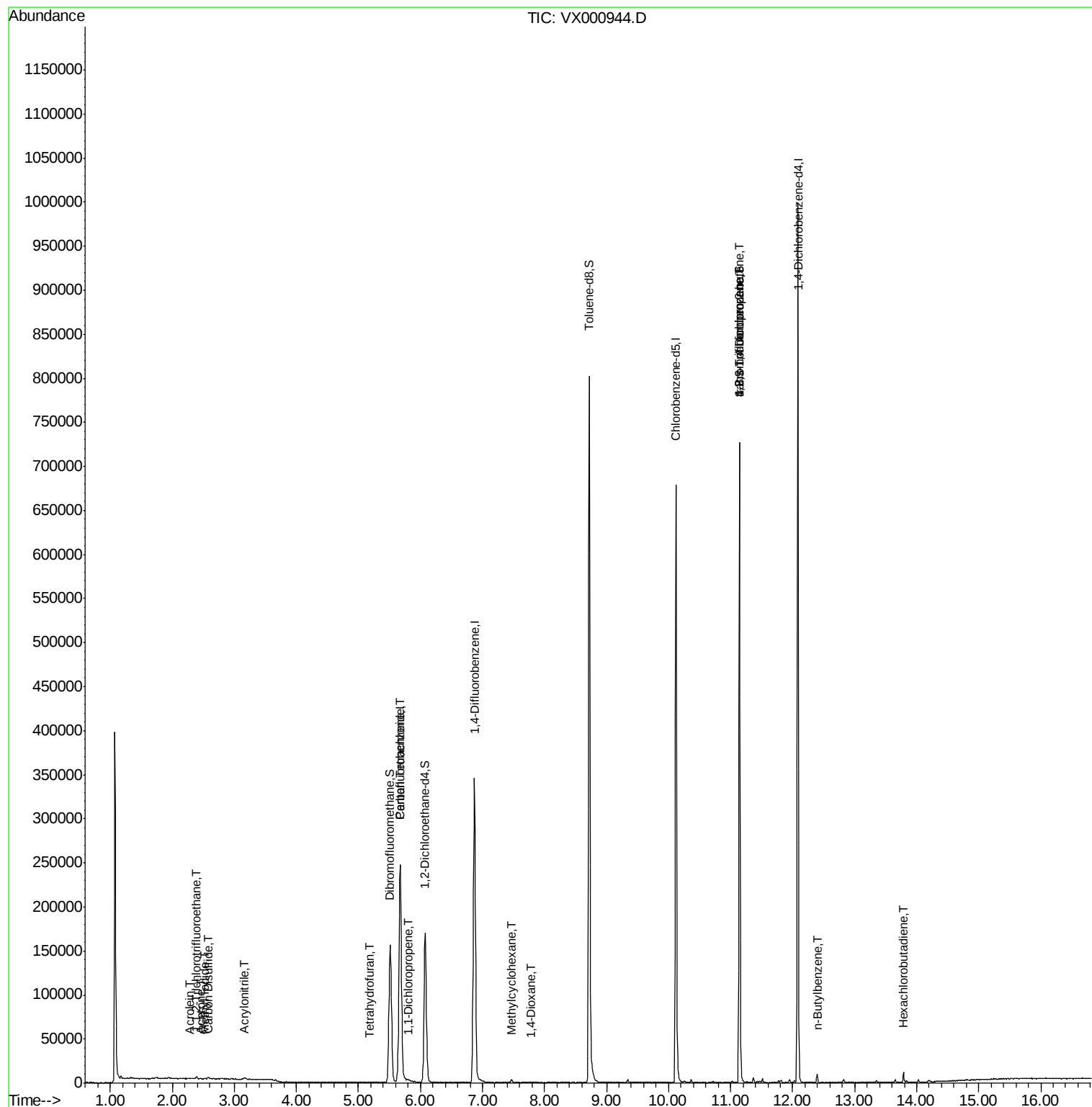
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	387	Below Cal		97
9) 1,1,2-Trichlorotrifluoroet	2.40	101	677	0.261	ug/l	92
10) Methyl Iodide	2.52	142	277	8.345	ug/l #	70
13) Acrolein	2.29	56	165	0.566	ug/l	86
15) Acrylonitrile	3.15	53	730	0.570	ug/l #	80
16) Acetone	2.45	43	715	0.613	ug/l	89
17) Carbon Disulfide	2.57	76	1665	0.223	ug/l #	91
29) Tetrahydrofuran	5.17	42	279	0.228	ug/l #	33
36) 1,1-Dichloropropene	5.81	75	816	0.201	ug/l #	62
38) Carbon Tetrachloride	5.67	117	22926	5.035	ug/l #	15
39) Methylcyclohexane	7.46	83	1367	0.280	ug/l #	83
49) 1,4-Dioxane	7.78	88	79	1.114	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	93625	25.750	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	93625	70.833	ug/l #	11
89) n-Butylbenzene	12.39	91	3654	0.320	ug/l	100
94) Hexachlorobutadiene	13.79	225	1996	0.679	ug/l	94

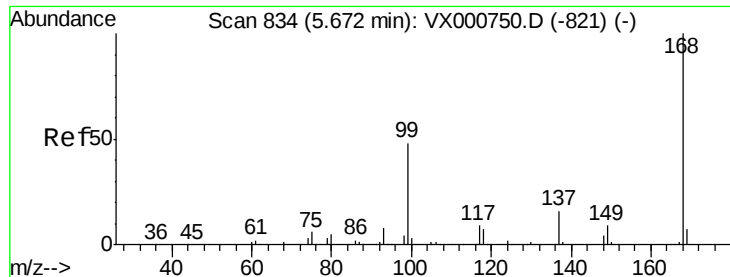
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

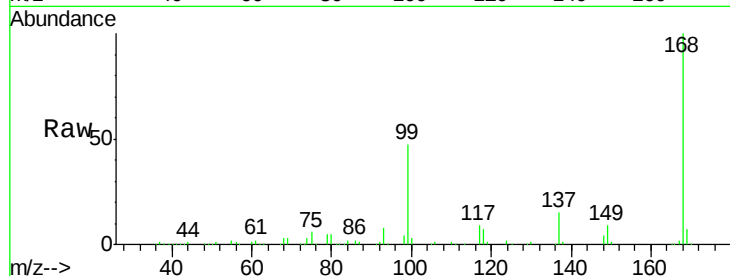
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 268258

Ion Ratio Lower Upper

168 100

99 47.1 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

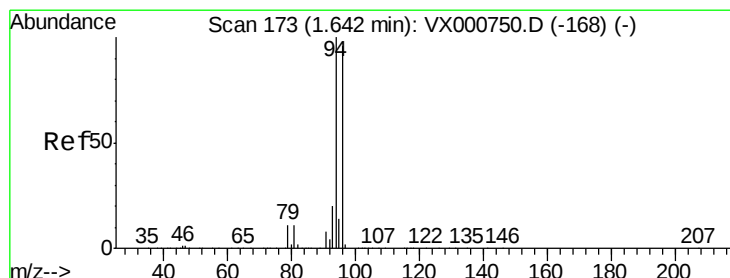
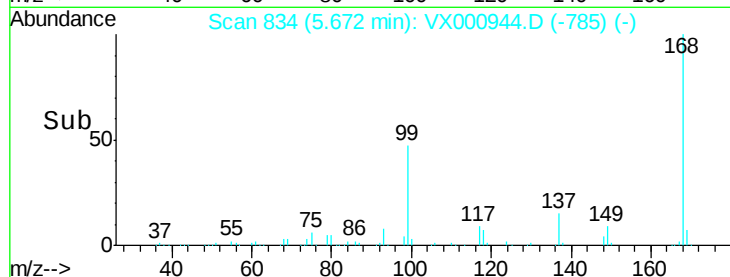
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000944.D

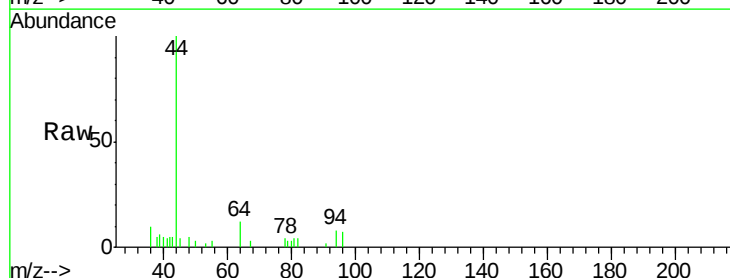
Acq: 17 Apr 2018 02:52

Tgt Ion: 94 Resp: 387

Ion Ratio Lower Upper

94 100

96 93.3 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

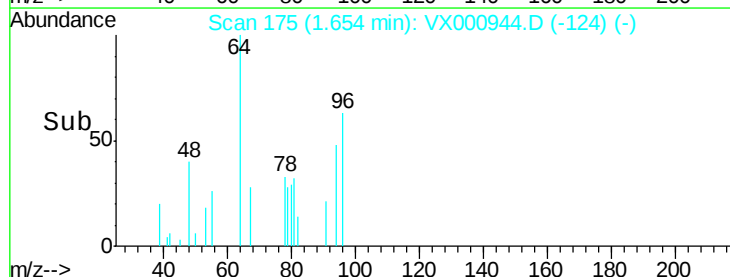
100

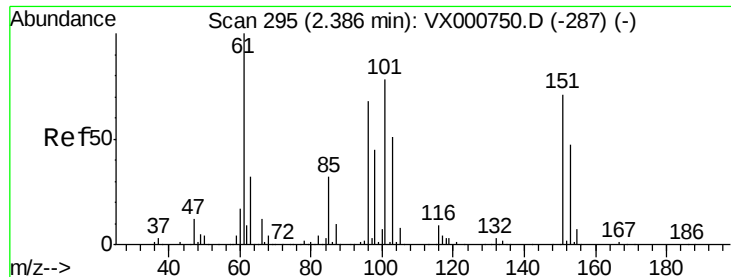
50

0

Time-->

1.60 1.65 1.70





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.261 ug/l

RT: 2.40 min Scan# 297

Delta R.T. 0.01 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

Instrument :

MSVOA_X

ClientSampled :

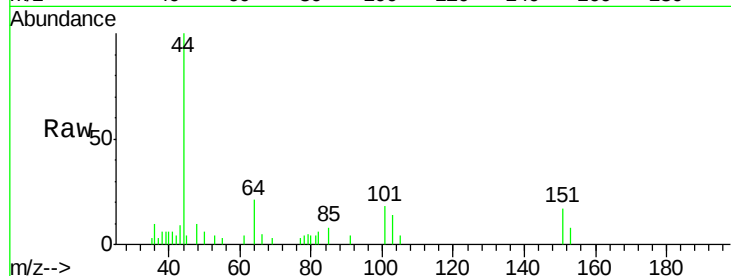
Tot Ion:101 Resp: 677

Ion Ratio Lower Upper

101 100

85 44.6 34.0 51.0

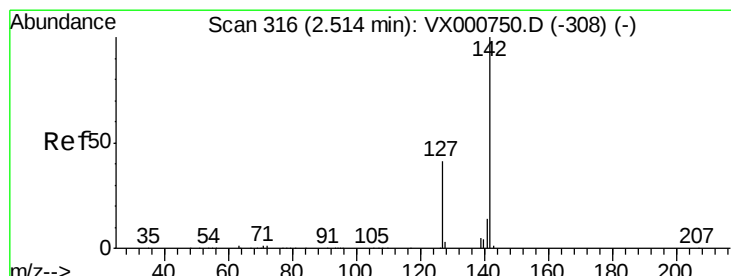
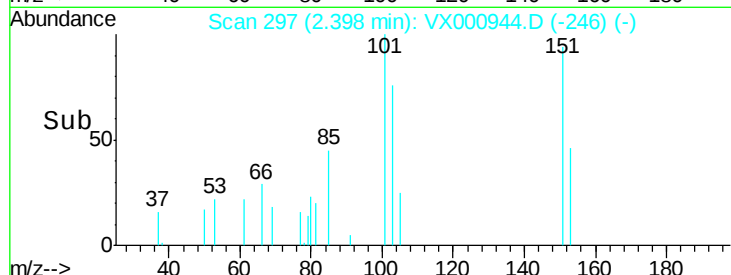
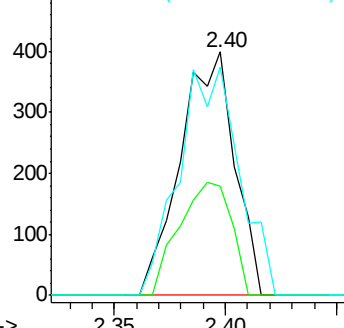
151 104.4 75.8 113.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 8.345 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

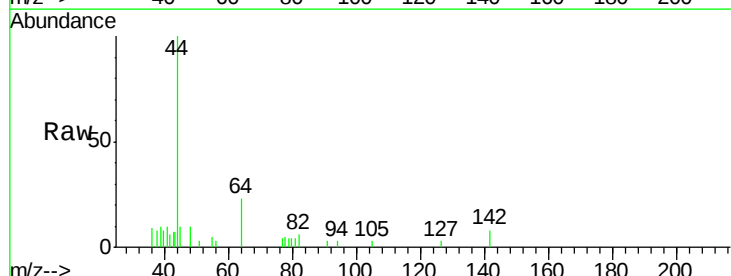
Tgt Ion:142 Resp: 277

Ion Ratio Lower Upper

142 100

127 23.1 32.6 49.0#

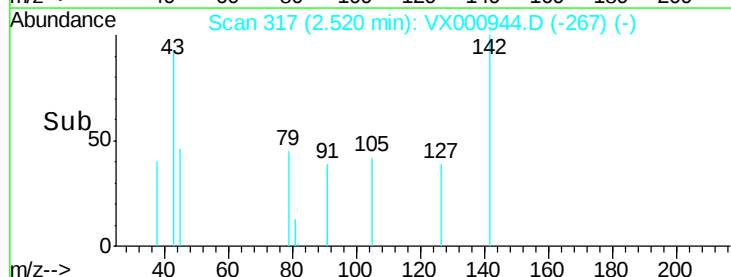
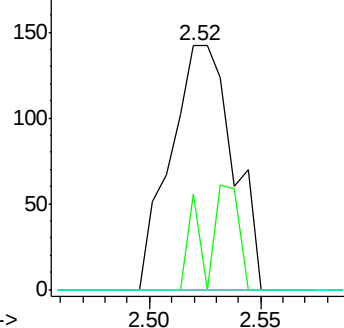
141 0.0 11.5 17.3#

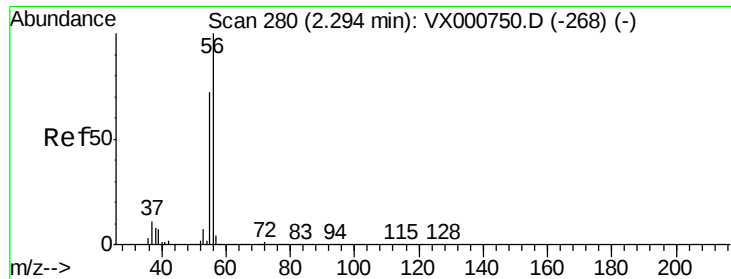


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 0.566 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

Instrument :

MSVOA_X

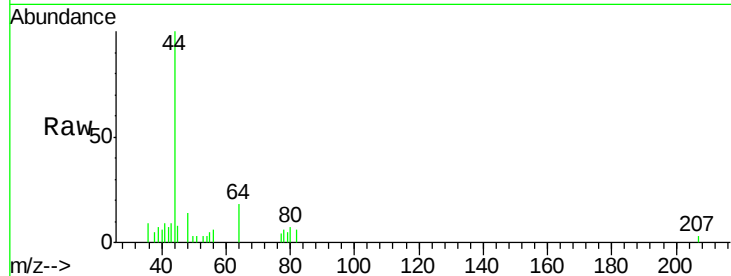
ClientSampled :

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

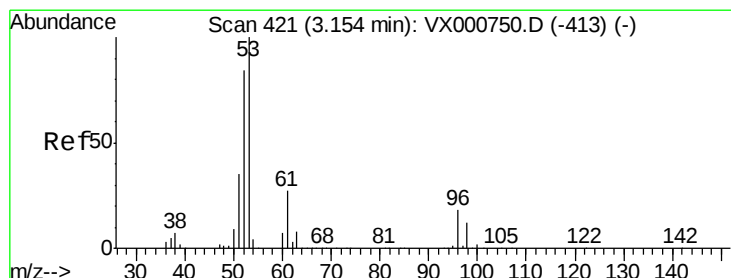
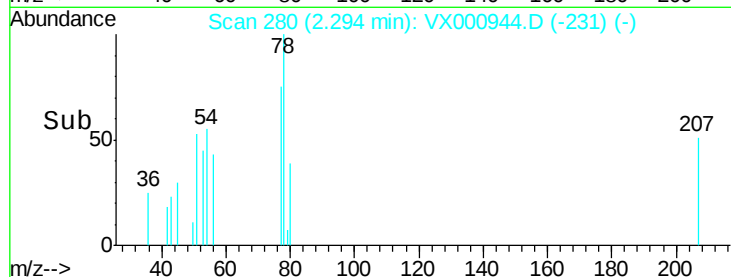
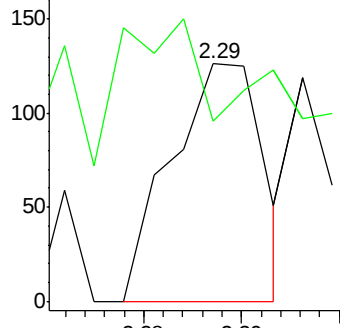
56 100

55 61.2 58.7 88.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.570 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

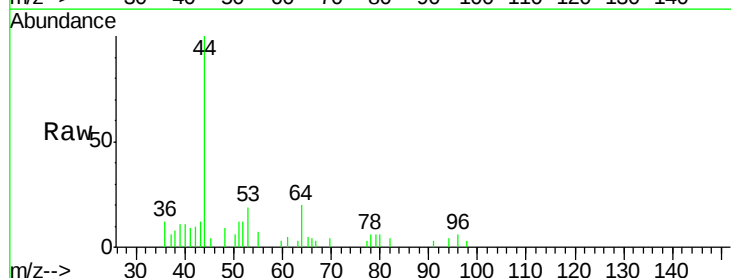
Tgt Ion: 53 Resp: 730

Ion Ratio Lower Upper

53 100

52 96.7 66.5 99.7

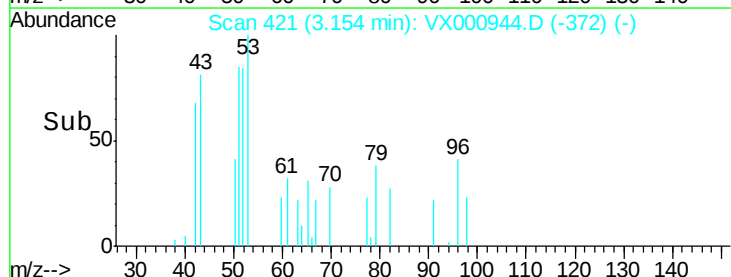
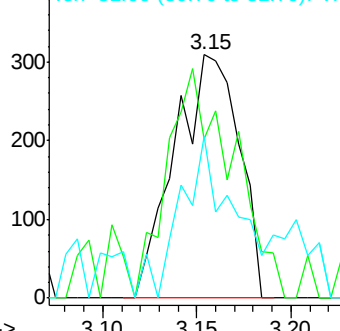
51 54.9 28.8 43.2#

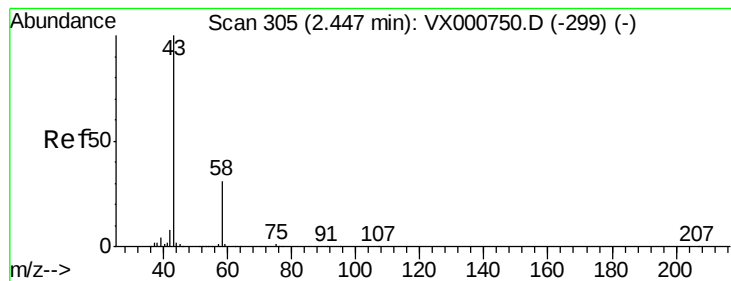


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.613 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

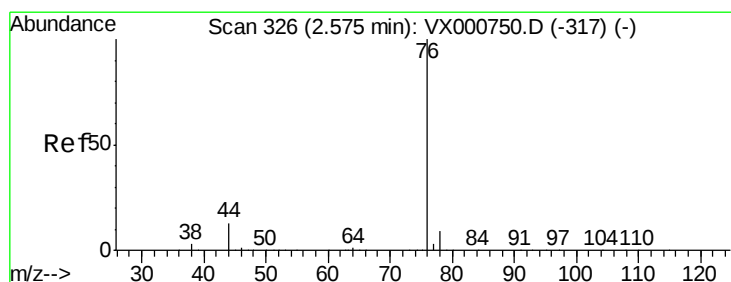
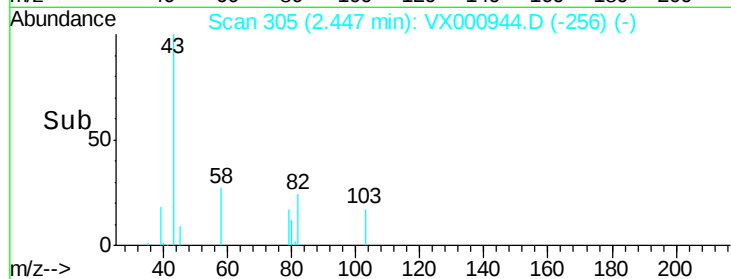
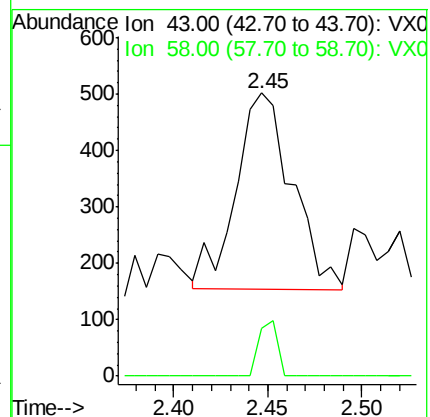
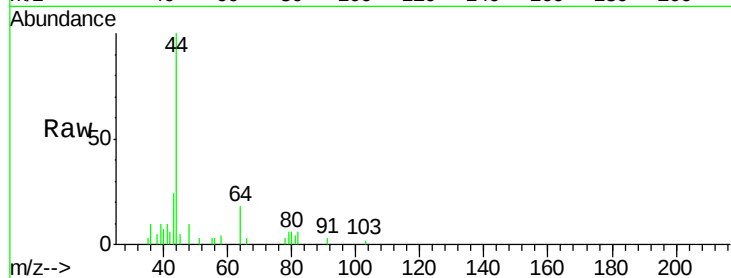
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 715

Ion Ratio Lower Upper

43 100

58 25.0 24.6 37.0



#17

Carbon Disulfide

Concen: 0.223 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX000944.D

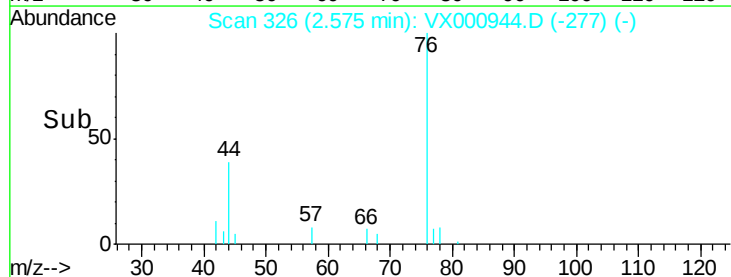
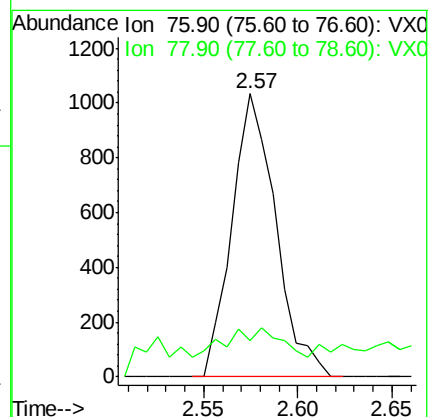
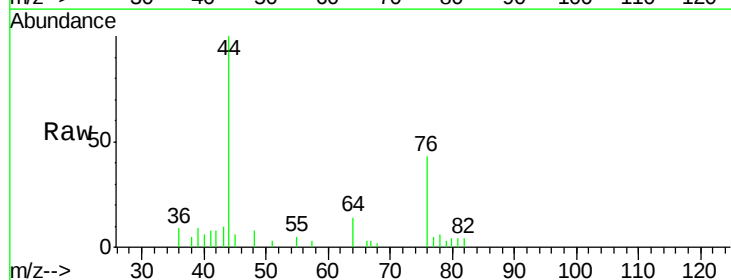
Acq: 17 Apr 2018 02:52

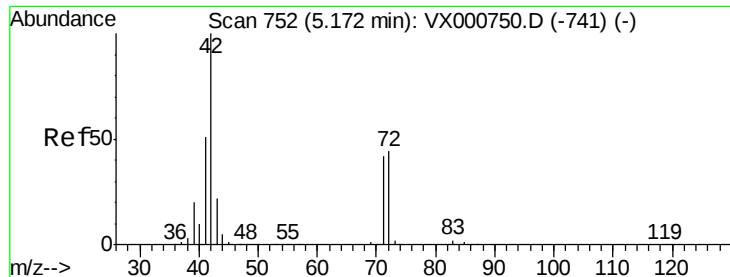
Tgt Ion: 76 Resp: 1665

Ion Ratio Lower Upper

76 100

78 6.2 7.4 11.2#





#29

Tetrahydrofuran

Concen: 0.228 ug/l

RT: 5.17 min Scan# 752

Delta R.T. -0.00 min

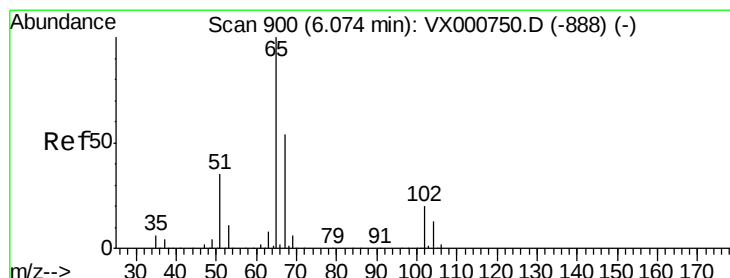
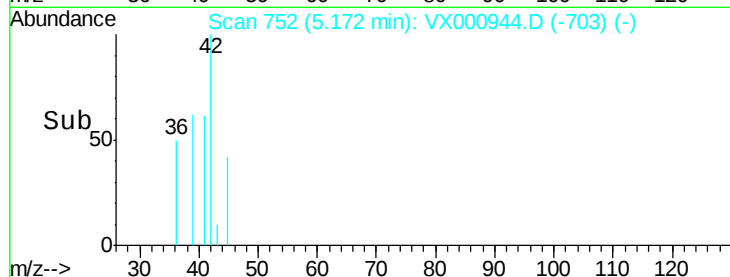
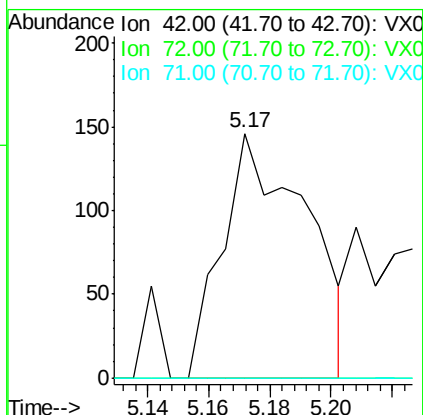
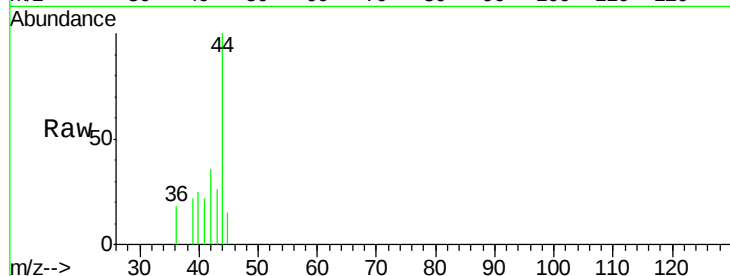
Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 42 Resp: 279

Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.1	52.7#
71	0.0	32.8	49.2#



#33

1,2-Dichloroethane-d4

Concen: 49.095 ug/l

RT: 6.07 min Scan# 900

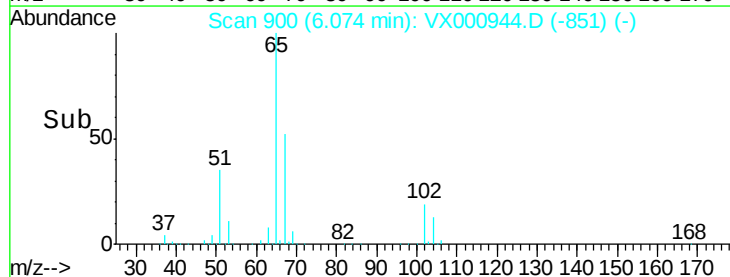
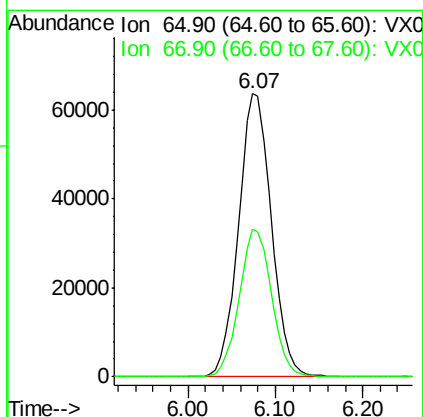
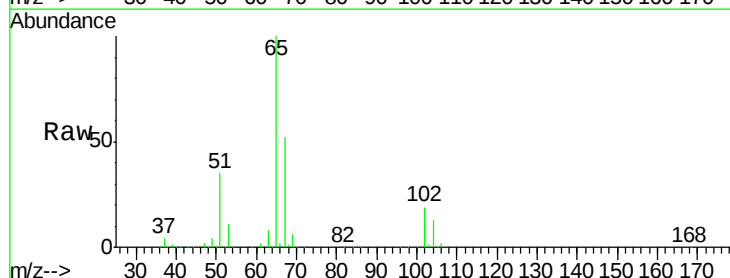
Delta R.T. -0.00 min

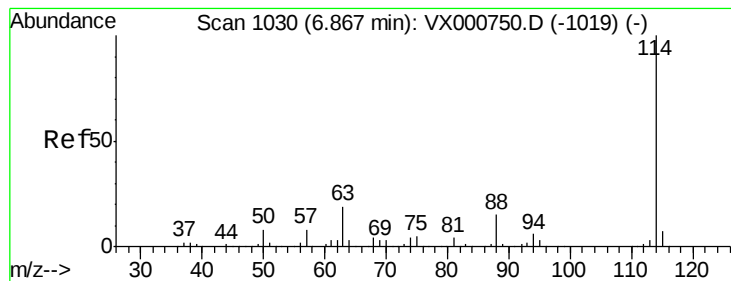
Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

Tgt Ion: 65 Resp: 166060

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

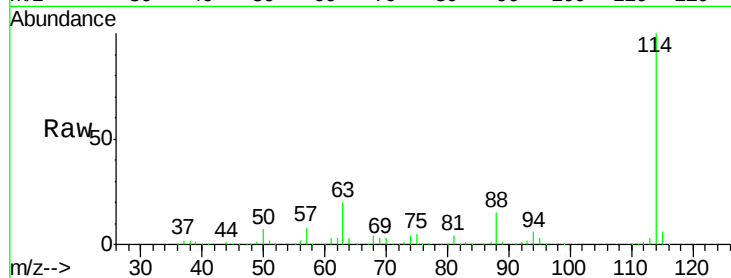
Tot Ion:114 Resp: 369400

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

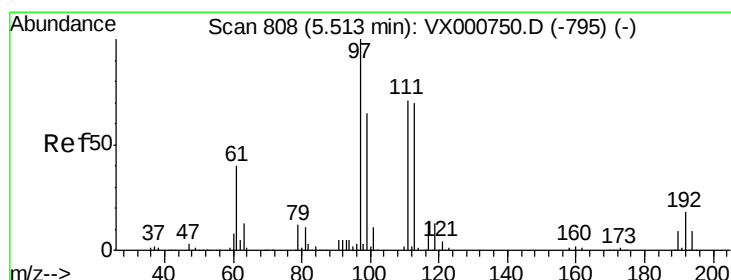
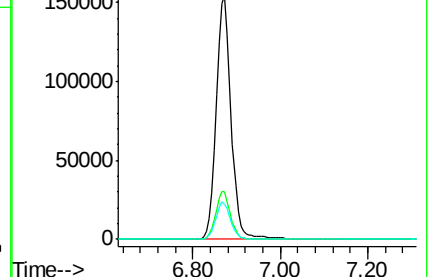
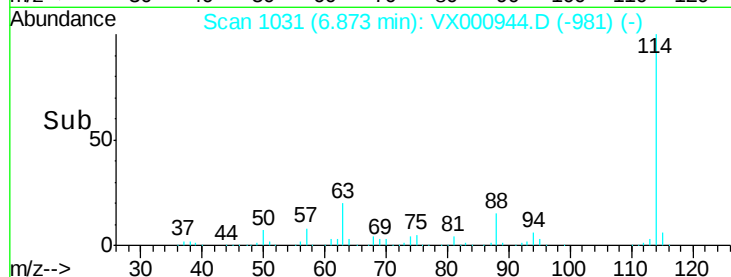
88 14.5 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.126 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

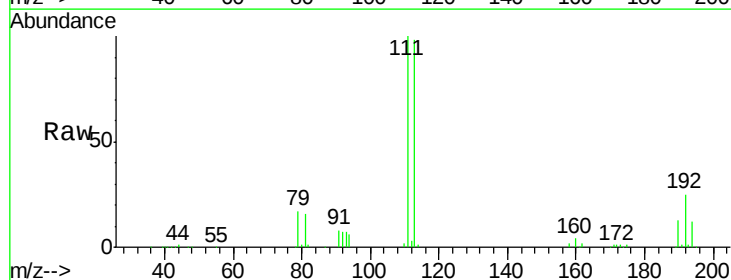
Tgt Ion:113 Resp: 131274

Ion Ratio Lower Upper

113 100

111 101.8 81.5 122.3

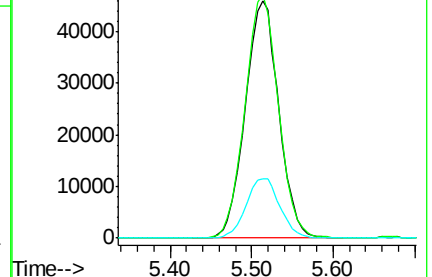
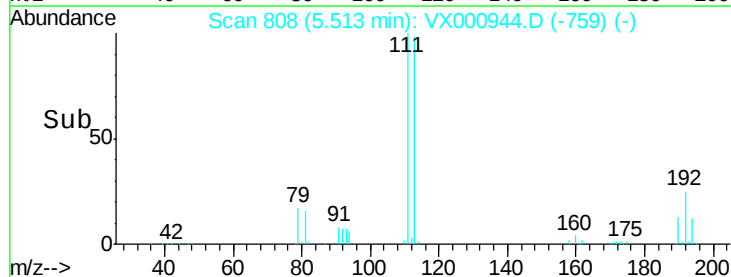
192 25.5 20.4 30.6

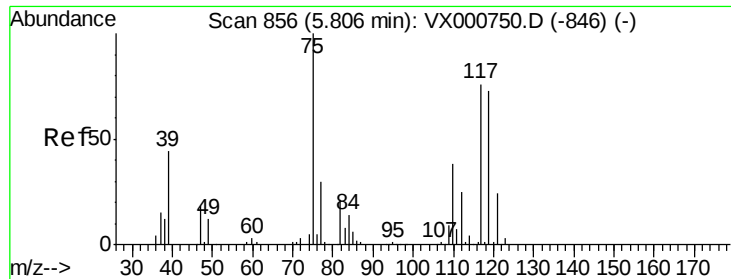


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 0.201 ug/l

RT: 5.81 min Scan# 856

Delta R.T. -0.00 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

Instrument :

MSVOA_X

ClientSampled :

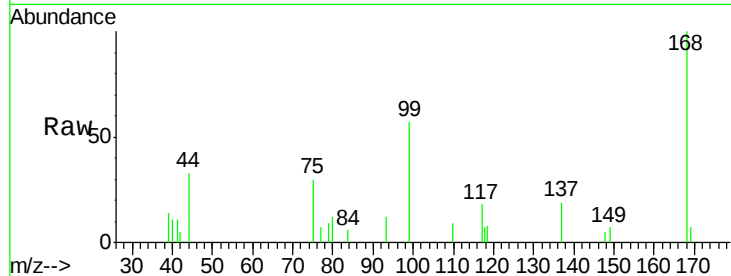
Tot Ion: 75 Resp: 816

Ion Ratio Lower Upper

75 100

110 14.7 19.2 57.6#

77 11.9 25.4 38.2#

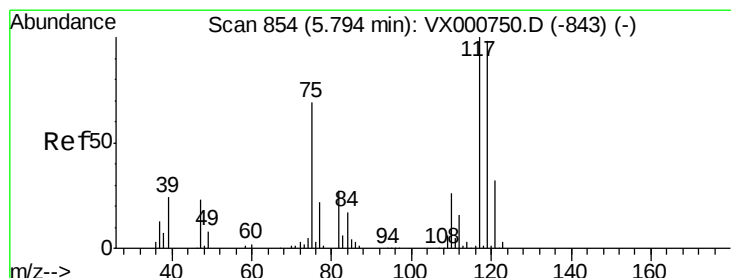
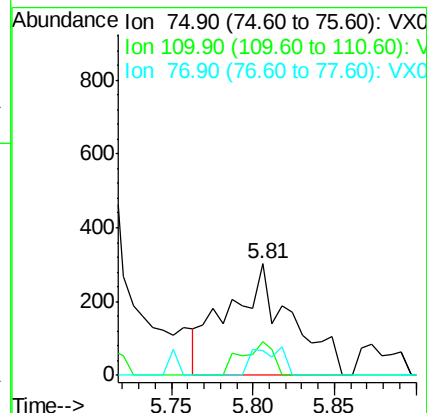
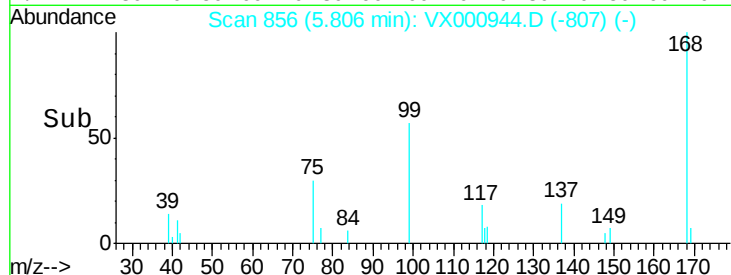


Abundance Ion 74.90 (74.60 to 75.60): VX000750.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX000750.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX000750.D (-846) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.035 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000944.D

Acq: 17 Apr 2018 02:52

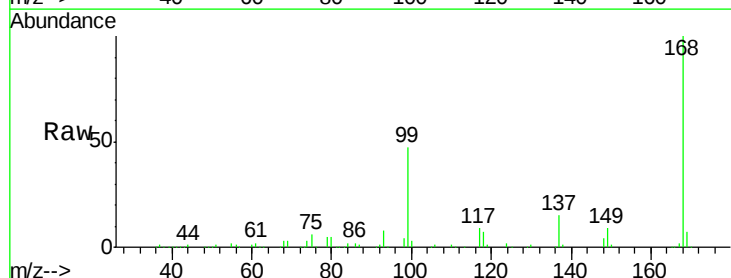
Tgt Ion: 117 Resp: 22926

Ion Ratio Lower Upper

117 100

119 5.7 78.4 117.6#

121 0.0 25.4 38.0#

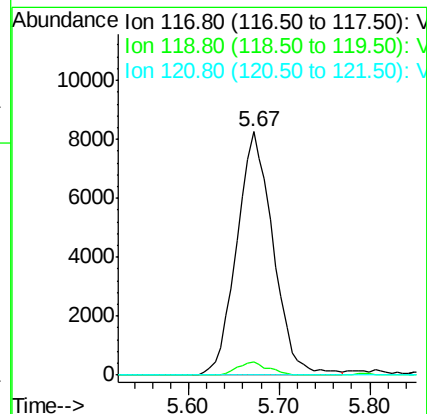
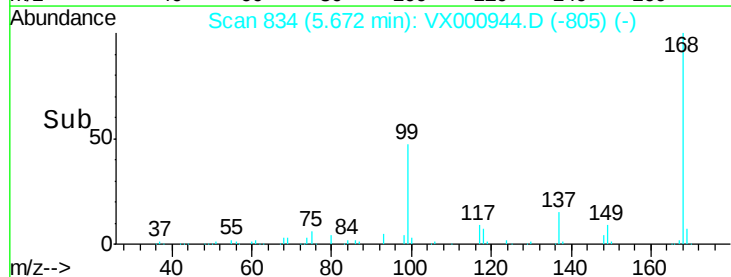


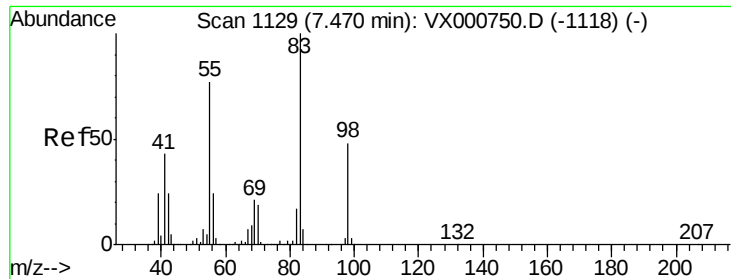
Abundance Ion 116.80 (116.50 to 117.50): VX000750.D (-843) (-)

Ion 118.80 (118.50 to 119.50): VX000750.D (-843) (-)

Ion 120.80 (120.50 to 121.50): VX000750.D (-843) (-)

Time-->

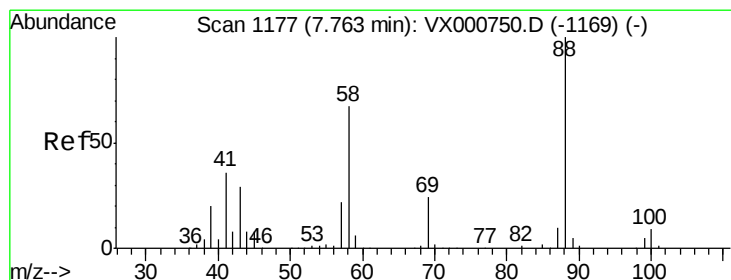
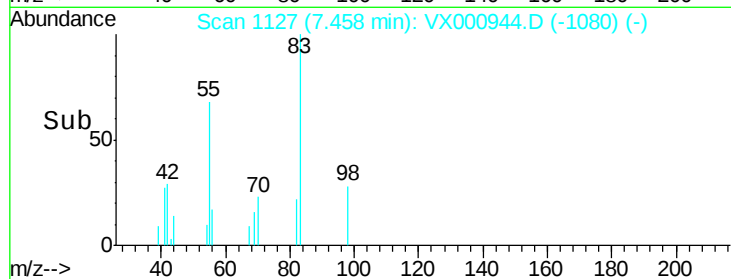
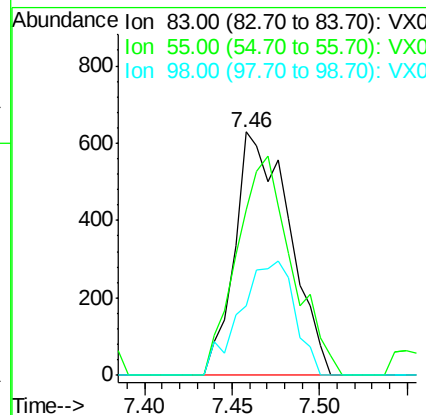
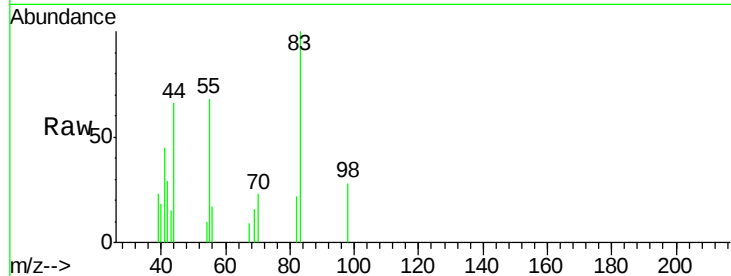




#39
Methvlcvclohexane
Concen: 0.280 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

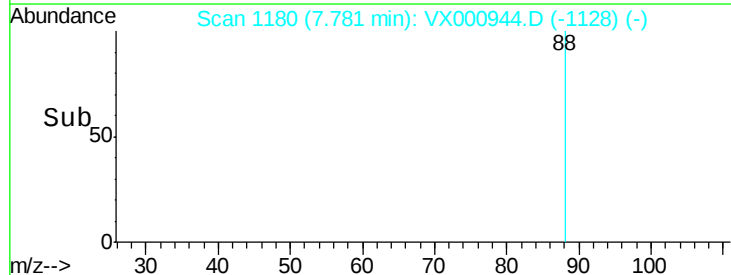
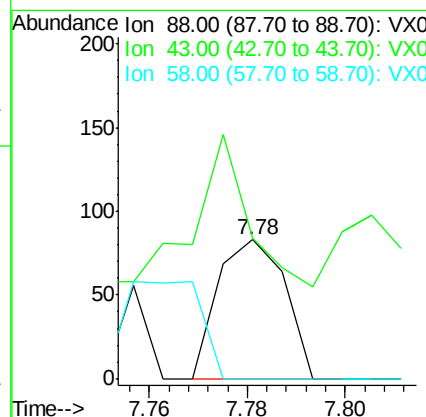
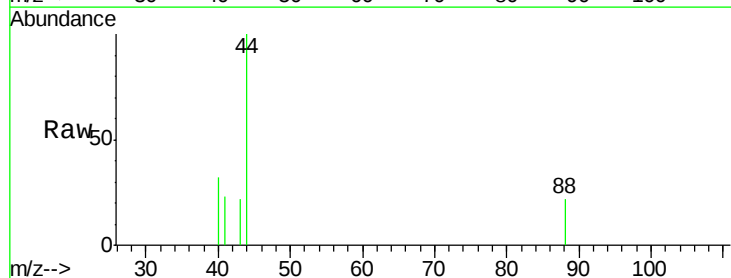
Instrument :
MSVOA_X
ClientSampled :

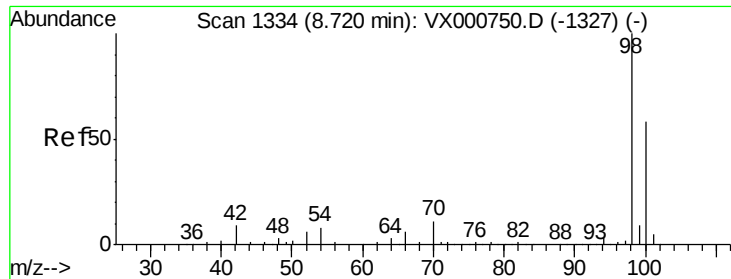
Tot Ion: 83 Resp: 1367
Ion Ratio Lower Upper
83 100
55 68.0 61.5 92.3
98 28.3 38.1 57.1#



#49
1,4-Dioxane
Concen: 1.114 ug/l
RT: 7.78 min Scan# 1180
Delta R.T. 0.02 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

Tgt Ion: 88 Resp: 79
Ion Ratio Lower Upper
88 100
43 291.1 25.8 38.8#
58 0.0 54.4 81.6#

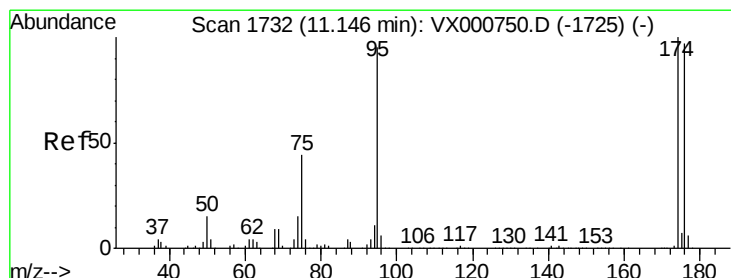
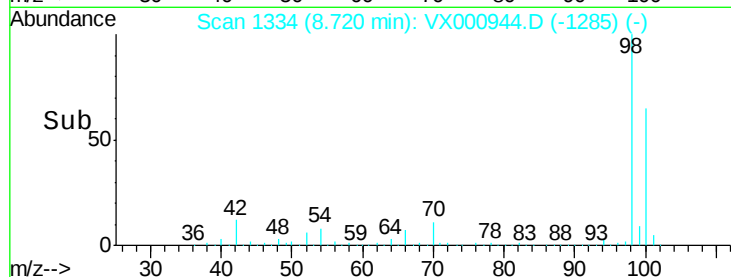
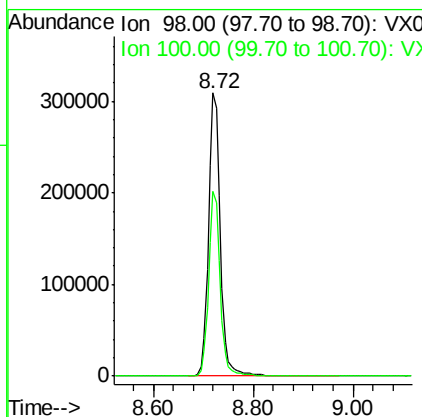
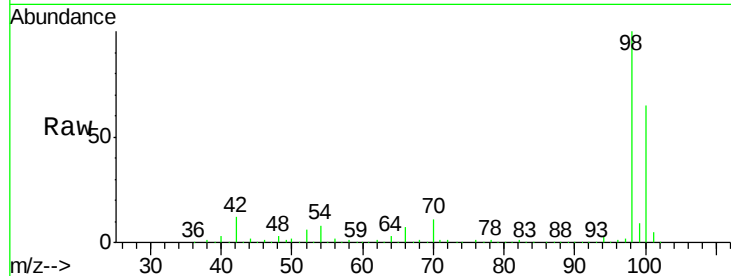




#50
Toluene-d8
Concen: 48.304 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

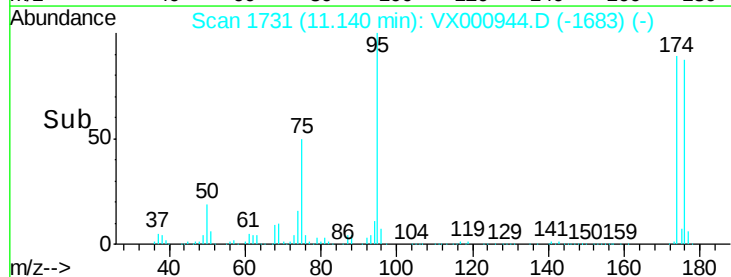
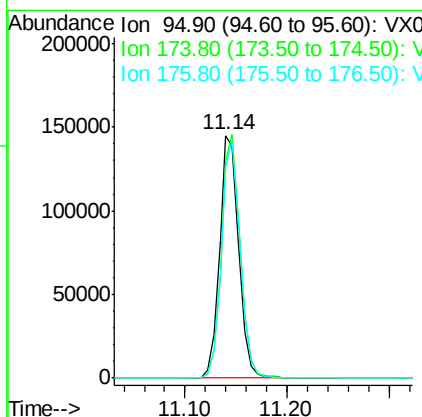
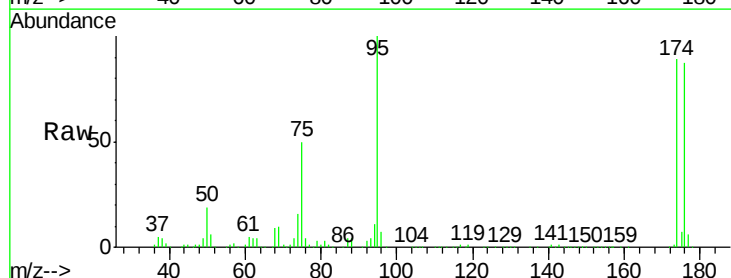
Instrument :
MSVOA_X
ClientSampleId :

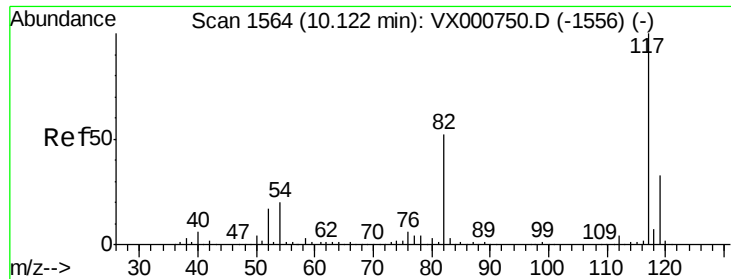
Tot Ion: 98 Resp: 511866
Ion Ratio Lower Upper
98 100
100 64.4 52.6 79.0



#62
4-Bromofluorobenzene
Concen: 43.329 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.01 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

Tgt Ion: 95 Resp: 189964
Ion Ratio Lower Upper
95 100
174 97.9 0.0 198.4
176 95.9 0.0 194.4

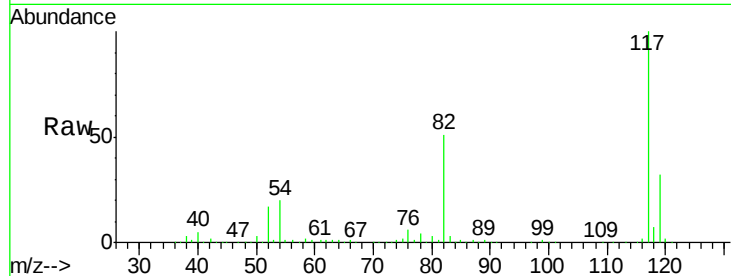




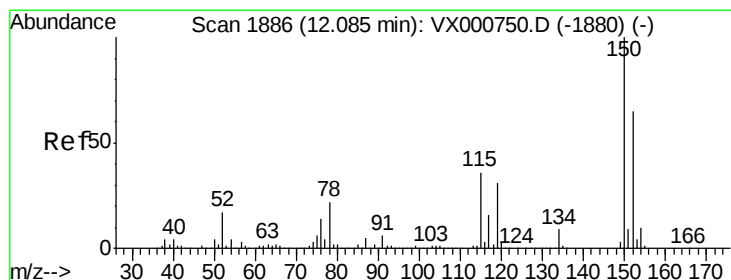
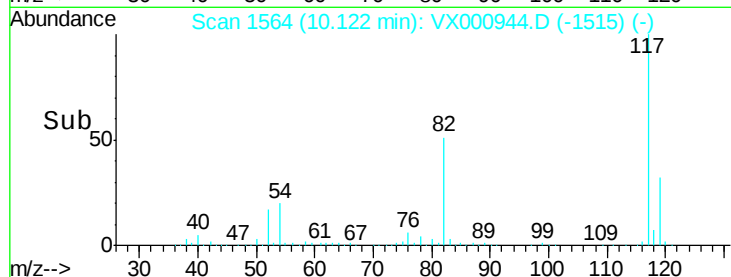
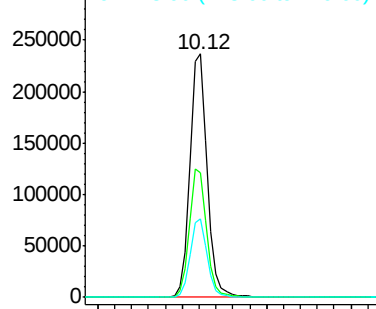
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 337153
Ion Ratio Lower Upper
117 100
82 51.0 41.9 62.9
119 32.3 26.0 39.0

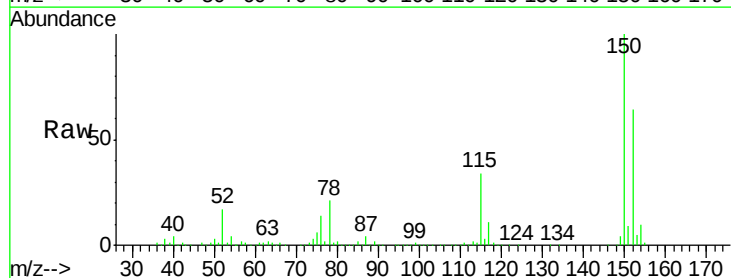


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

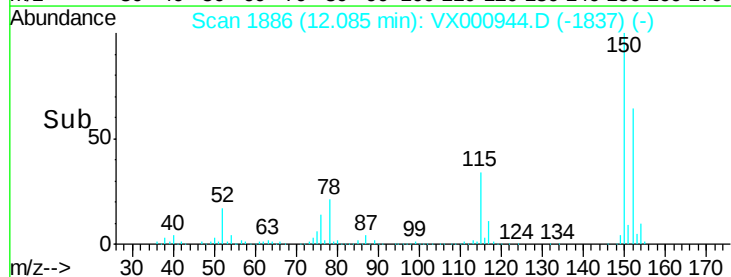
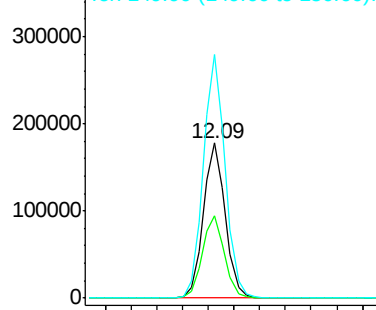


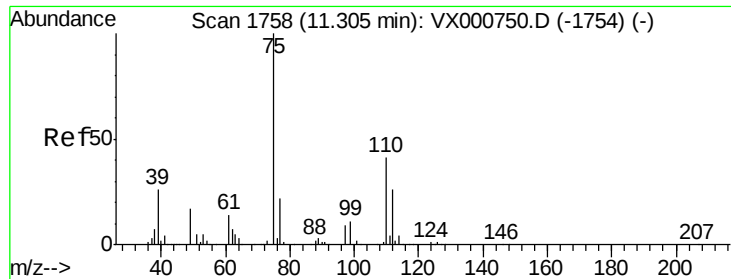
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

Tgt Ion:152 Resp: 210826
Ion Ratio Lower Upper
152 100
115 53.5 37.9 113.7
150 156.5 0.0 348.0



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

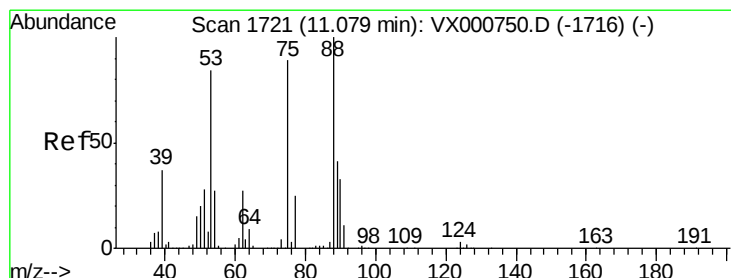
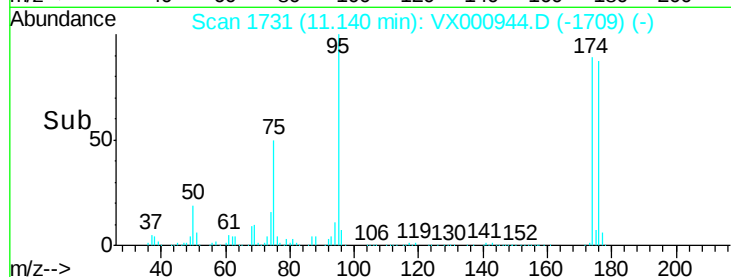
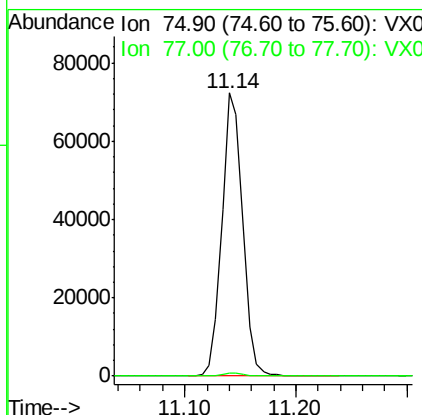
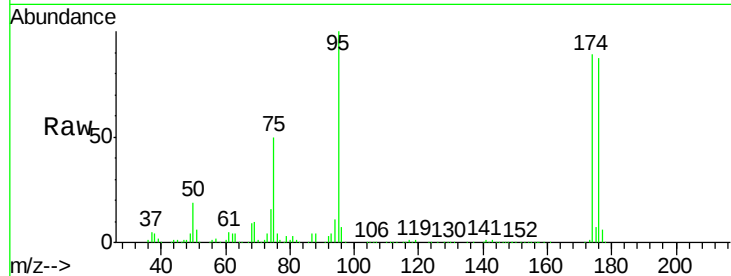




#76
 1,2,3-Trichloropropane
 Concen: 25.750 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX000944.D
 Acq: 17 Apr 2018 02:52

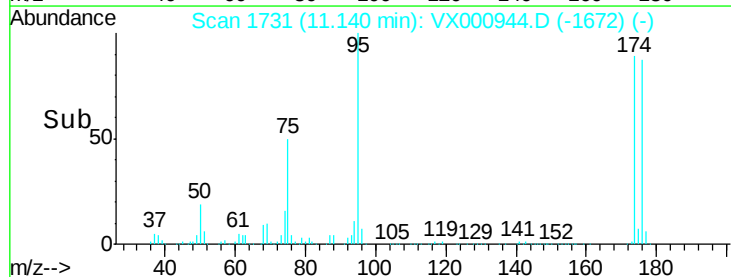
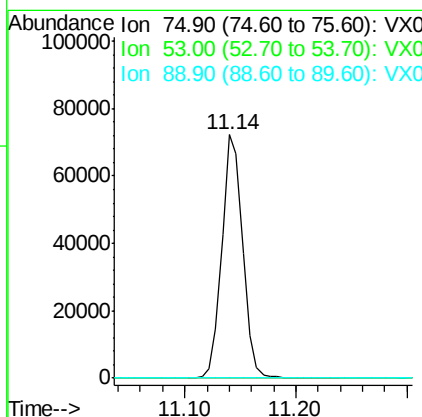
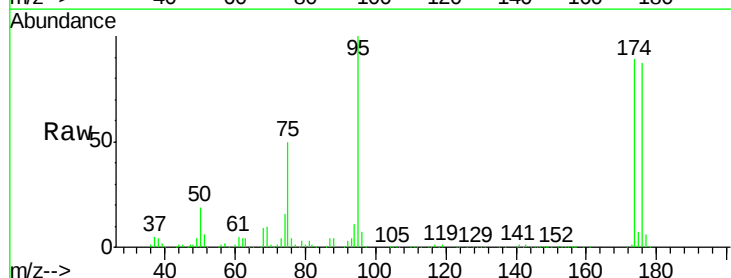
Instrument :
 MSVOA_X
 ClientSampled :

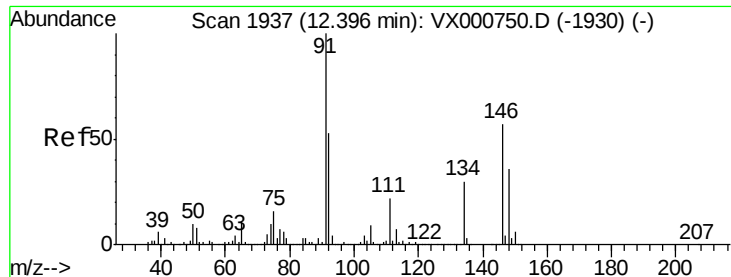
Tot Ion: 75 Resp: 93625
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.5 61.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.833 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX000944.D
 Acq: 17 Apr 2018 02:52

Tgt Ion: 75 Resp: 93625
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 40.9 61.3#

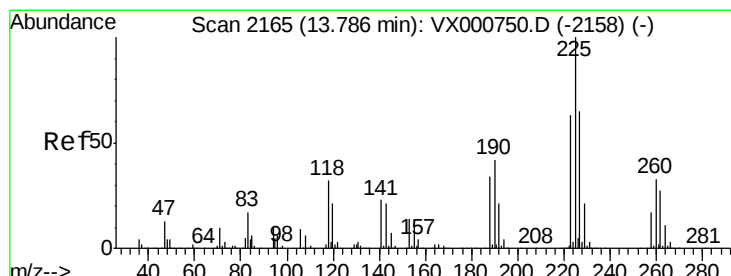
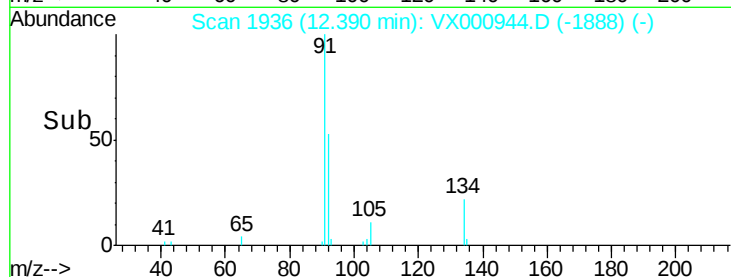
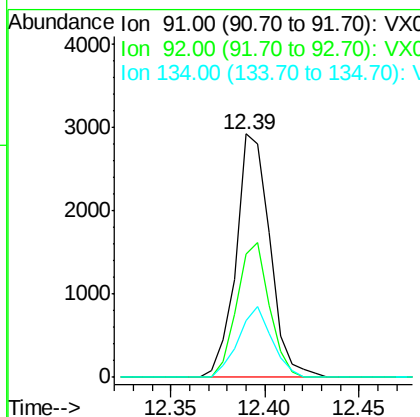
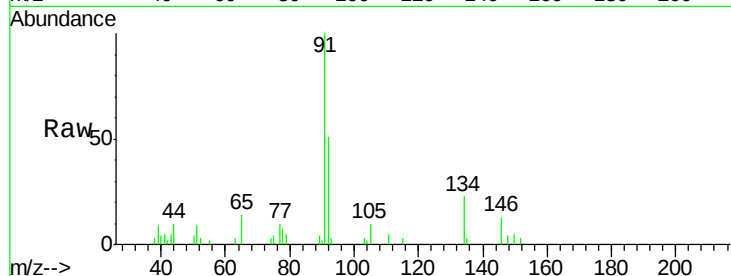




#89
n-Butylbenzene
Concen: 0.320 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.01 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 91 Resp: 3654
Ion Ratio Lower Upper
91 100
92 53.0 26.5 79.5
134 28.6 14.5 43.5



#94
Hexachlorobutadiene
Concen: 0.679 ug/l
RT: 13.79 min Scan# 2165
Delta R.T. -0.00 min
Lab File: VX000944.D
Acq: 17 Apr 2018 02:52

Tgt Ion: 225 Resp: 1996
Ion Ratio Lower Upper
225 100
223 66.1 31.2 93.6
227 59.5 32.3 96.9

