

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003062.D
 Acq On : 30 Jun 2018 06:28
 Operator : JC/MD
 Sample : J3675-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 30 06:50:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	296584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	415732	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	397186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	226744	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	194823	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
35) Dibromofluoromethane	5.51	113	157261	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
50) Toluene-d8	8.72	98	586436	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	11.14	95	212410	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

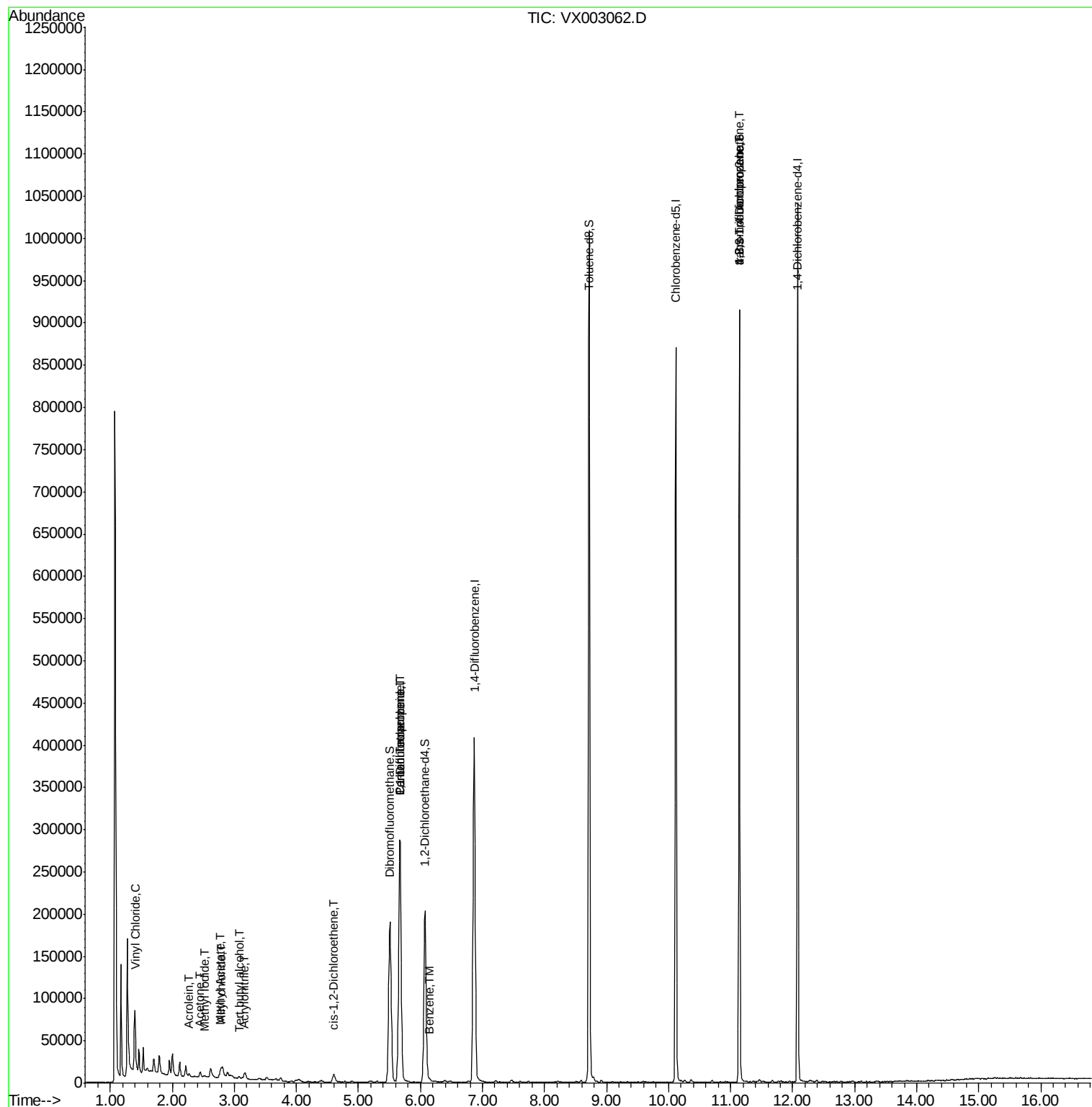
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	124	Below Cal		87
3) Chloromethane	1.32	50	1092	Below Cal		90
4) Vinyl Chloride	1.41	62	2000	0.60 ug/l	#	1
5) Bromomethane	1.61	94	216	Below Cal	#	63
6) Chloroethane	1.62	64	922	Below Cal	#	56
10) Methyl Iodide	2.53	142	1869	6.72 ug/l	#	95
11) Tert butyl alcohol	3.07	59	2507	3.07 ug/l	#	83
13) Acrolein	2.27	56	137	4.53 ug/l	#	1
14) Allyl chloride	2.78	41	5579	0.97 ug/l	#	25
15) Acrylonitrile	3.15	53	456	0.26 ug/l	#	38
16) Acetone	2.45	43	6650	3.92 ug/l		99
18) Methyl Acetate	2.77	43	2826	0.60 ug/l	#	67
27) cis-1,2-Dichloroethene	4.60	96	4459	1.25 ug/l		50
36) 1,1-Dichloropropene	5.67	75	19379	4.25 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	26730	5.34 ug/l	#	16
40) Benzene	6.15	78	3333	0.25 ug/l		93
76) 1,2,3-Trichloropropane	11.14	75	109834	26.74 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	109834	75.73 ug/l	#	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

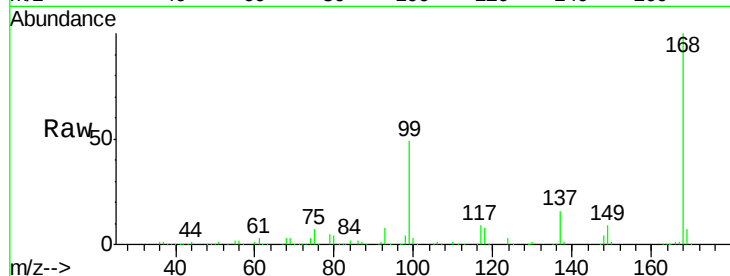
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 296584

Ion Ratio Lower Upper

168 100

99 48.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

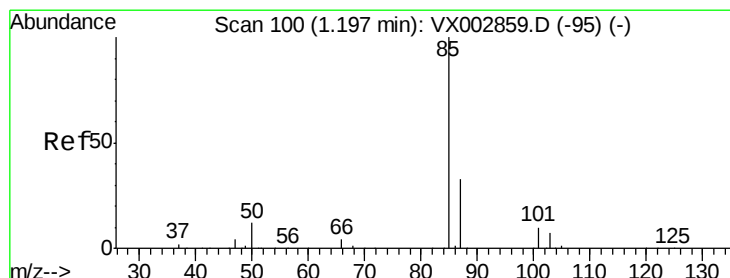
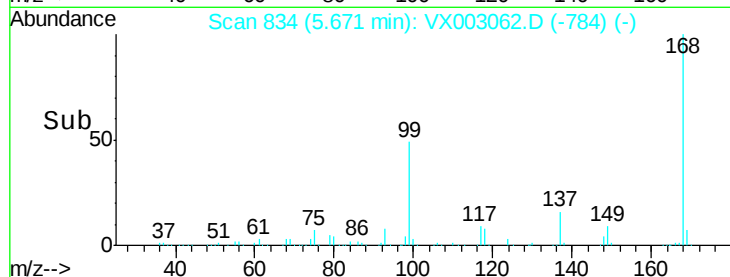
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003062.D

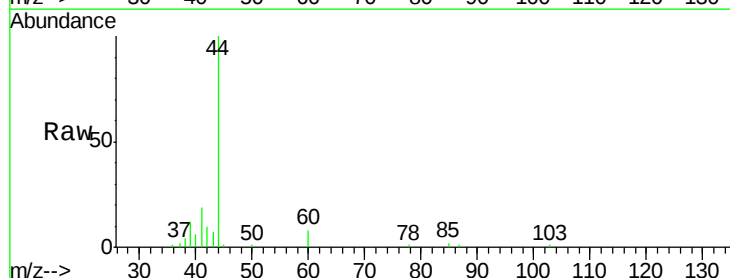
Acq: 30 Jun 2018 06:28

Tgt Ion: 85 Resp: 124

Ion Ratio Lower Upper

85 100

87 39.0 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

150

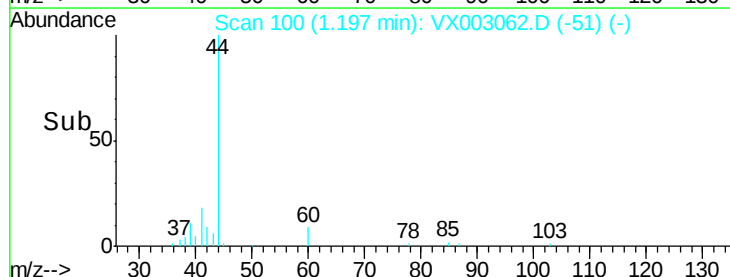
100

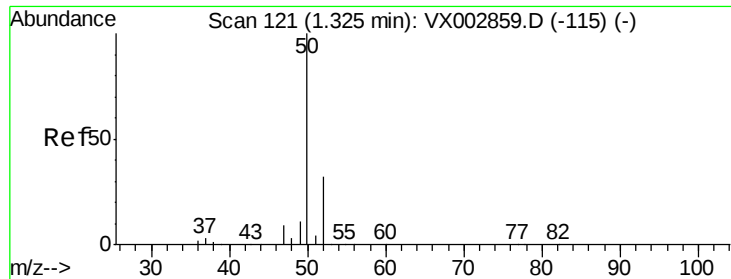
50

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

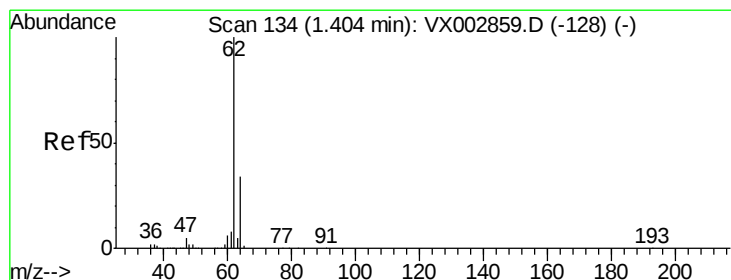
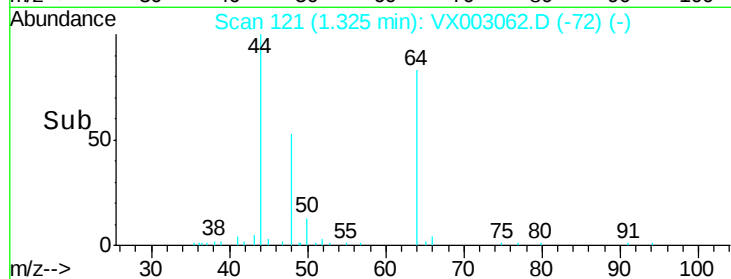
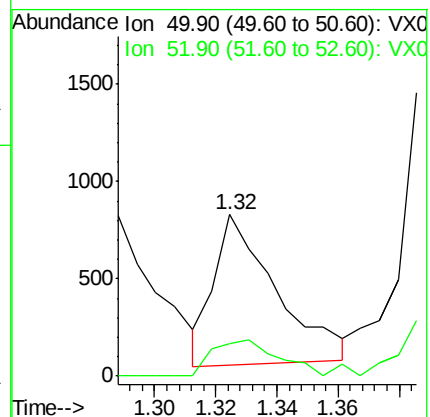
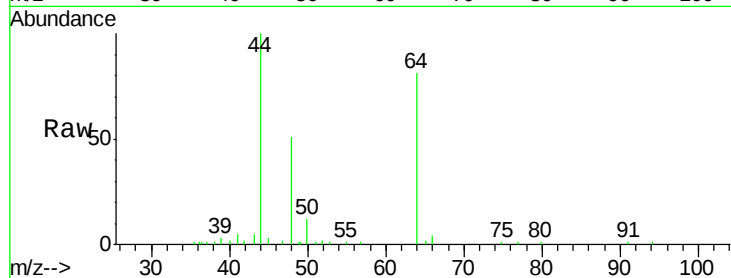
ClientSampleId :

Tot Ion: 50 Resp: 1092

Ion Ratio Lower Upper

50 100

52 26.4 25.7 38.5



#4

Vinyl Chloride

Concen: 0.60 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX003062.D

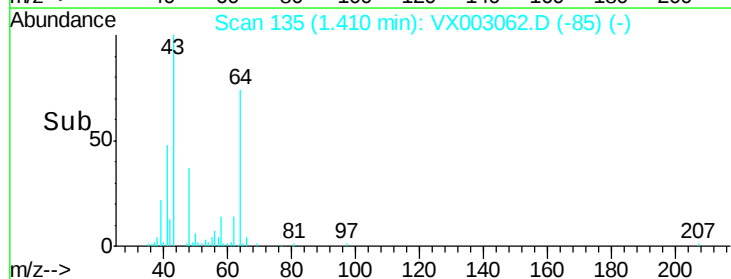
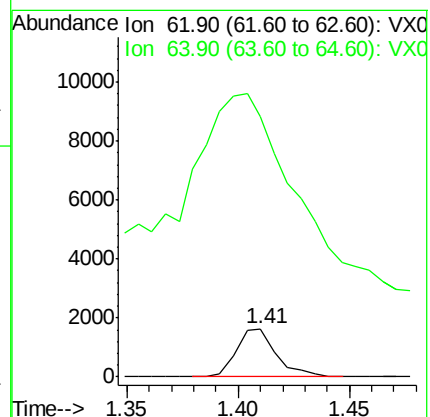
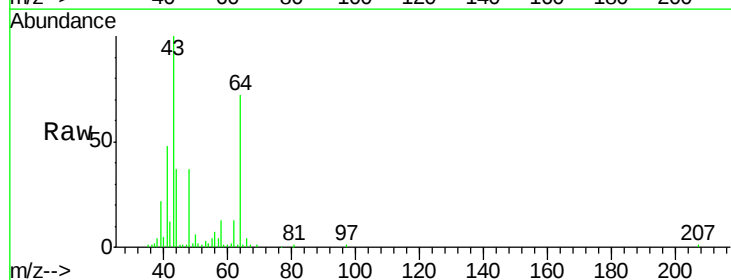
Acq: 30 Jun 2018 06:28

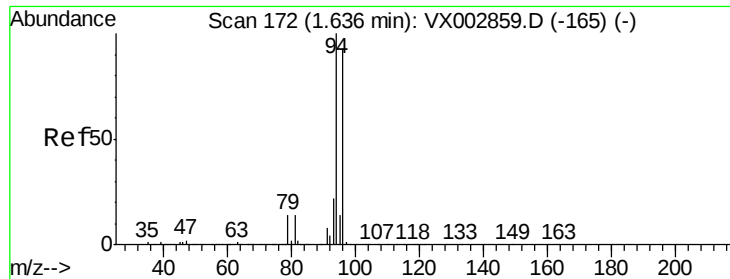
Tgt Ion: 62 Resp: 2000

Ion Ratio Lower Upper

62 100

64 301.7 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 167

Delta R.T. -0.03 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

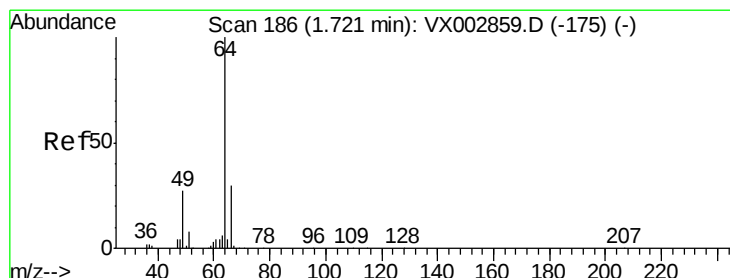
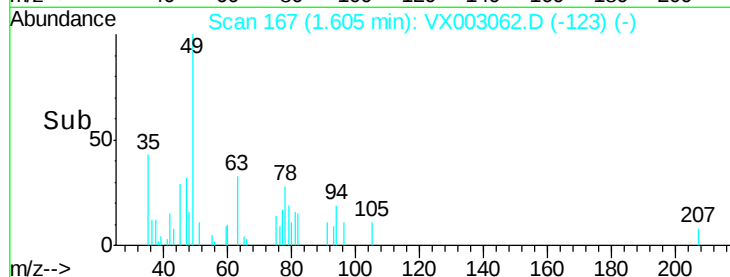
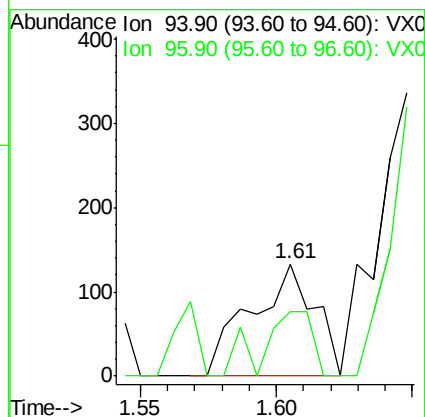
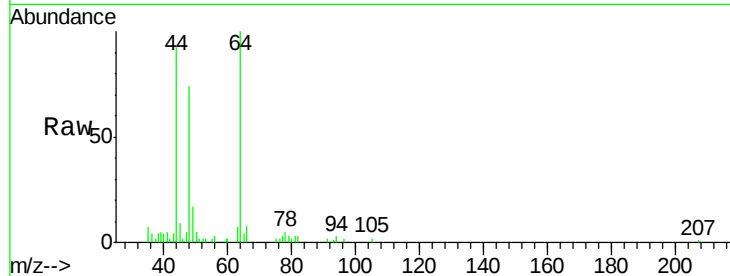
ClientSampled :

Tot Ion: 94 Resp: 216

Ion Ratio Lower Upper

94 100

96 57.9 74.9 112.3#



#6

Chloroethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.10 min

Lab File: VX003062.D

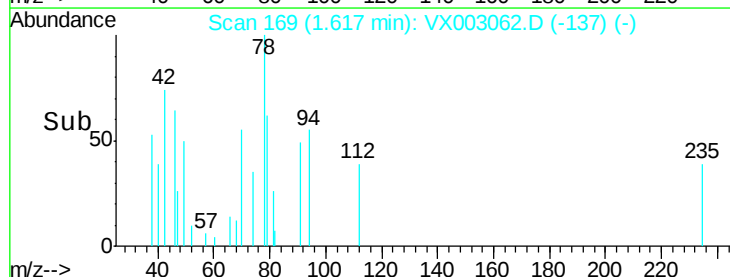
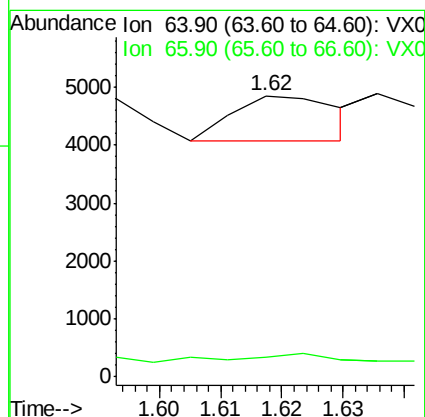
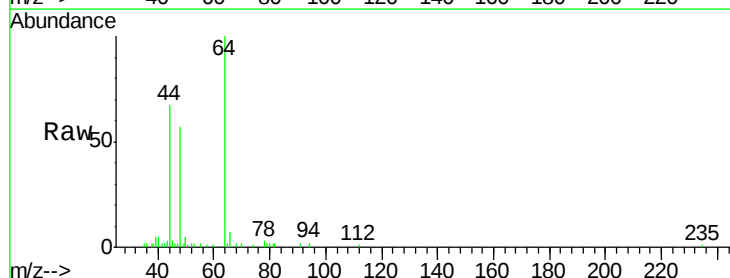
Acq: 30 Jun 2018 06:28

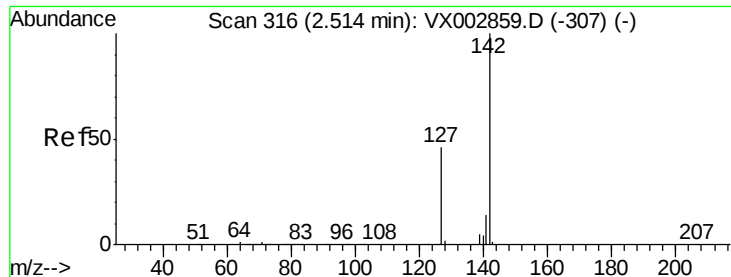
Tgt Ion: 64 Resp: 922

Ion Ratio Lower Upper

64 100

66 7.6 25.5 38.3#

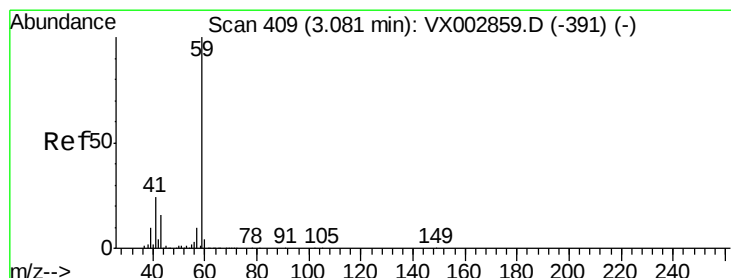
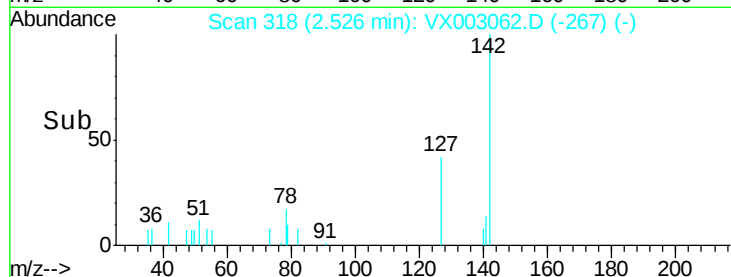
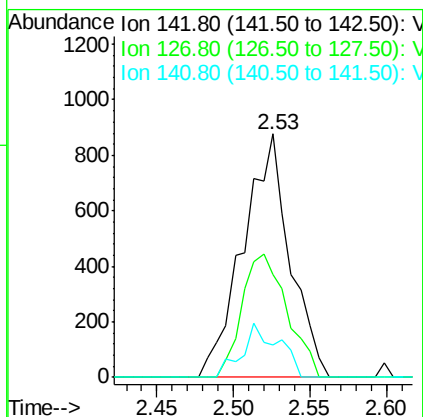
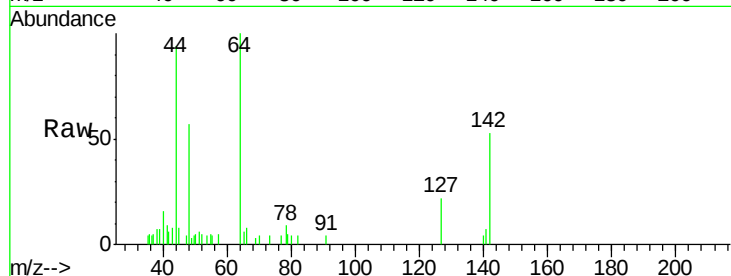




#10
Methvl Iodide
Concen: 6.72 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX003062.D
Acq: 30 Jun 2018 06:28

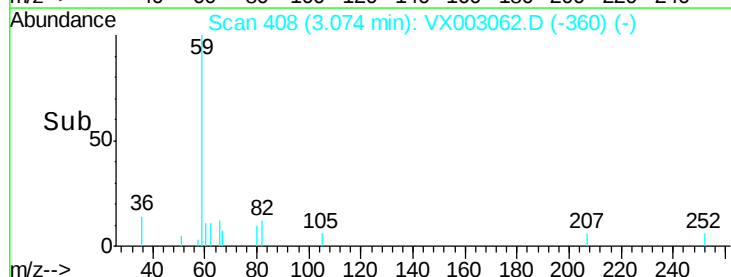
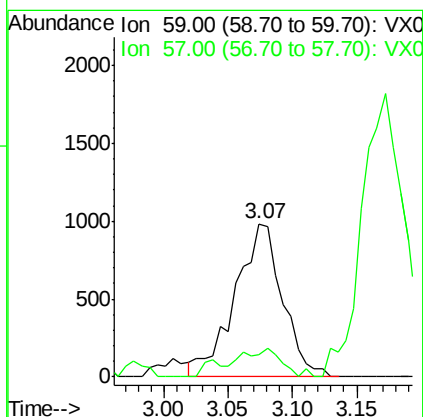
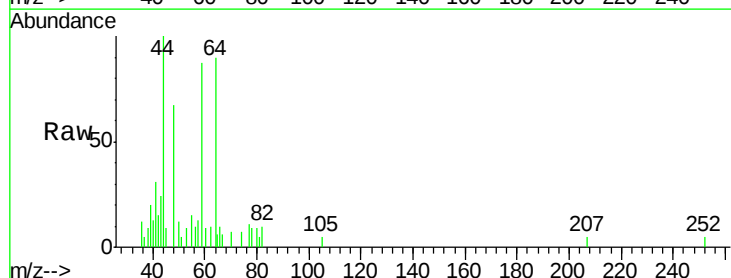
Instrument :
MSVOA_X
ClientSampleId :

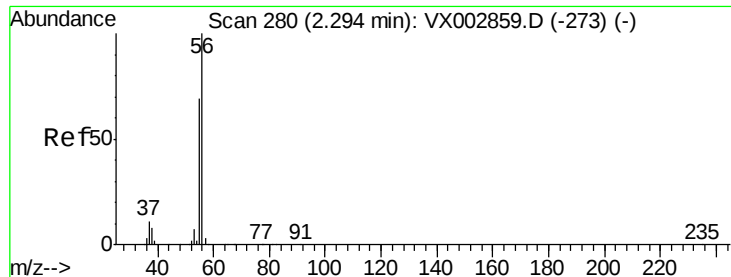
Tot Ion:142 Resp: 1869
Ion Ratio Lower Upper
142 100
127 48.6 36.6 55.0
141 17.2 11.3 16.9#



#11
Tert butyl alcohol
Concen: 3.07 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003062.D
Acq: 30 Jun 2018 06:28

Tgt Ion: 59 Resp: 2507
Ion Ratio Lower Upper
59 100
57 16.7 8.2 12.2#





#13

Acrolein

Concen: 4.53 ug/l

RT: 2.27 min Scan# 276

Delta R.T. -0.02 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

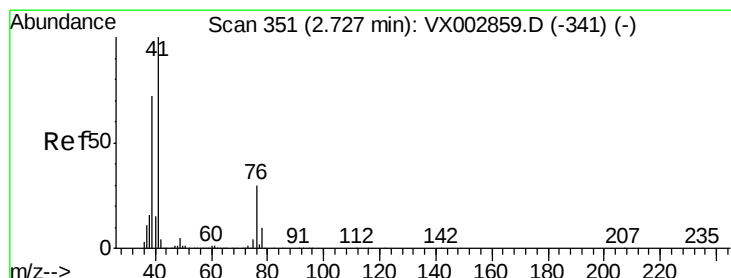
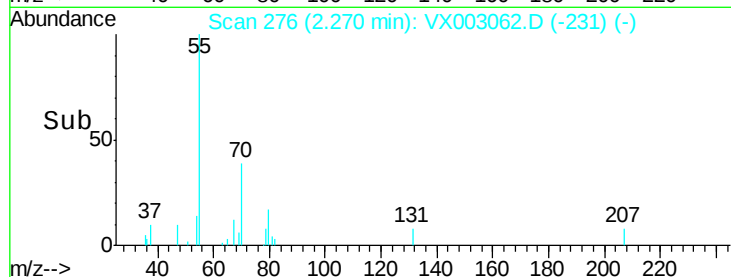
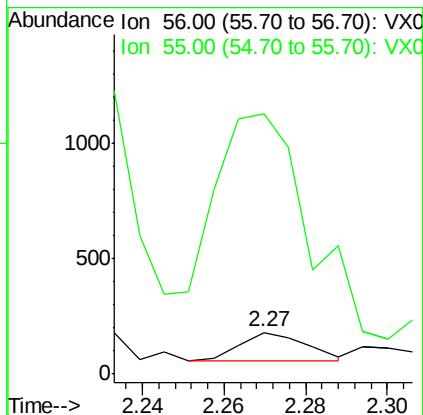
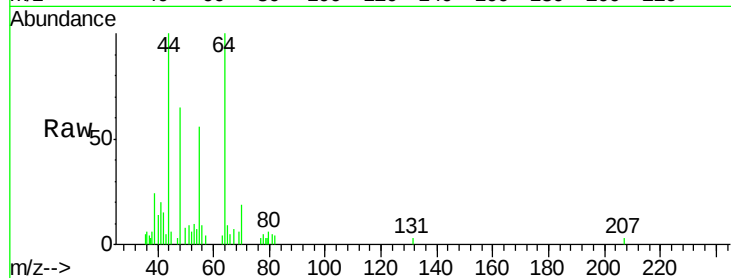
ClientSampled :

Tot Ion: 56 Resp: 137

Ion Ratio Lower Upper

56 100

55 1686.1 57.0 85.4#



#14

Allyl chloride

Concen: 0.97 ug/l

RT: 2.78 min Scan# 359

Delta R.T. 0.05 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

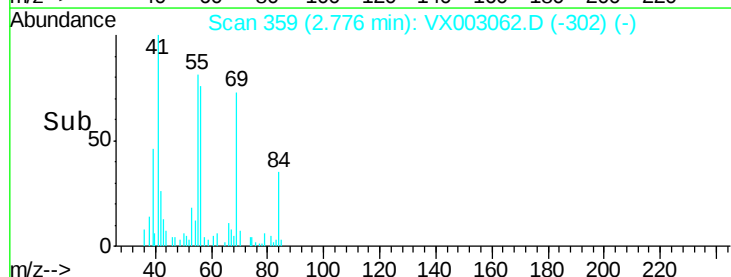
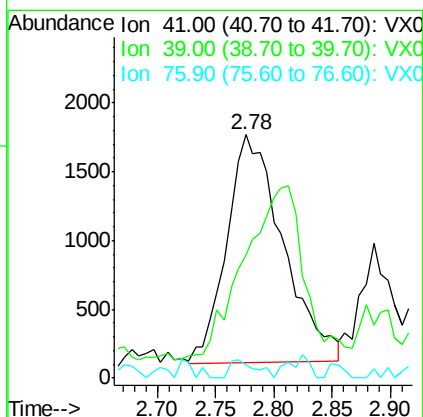
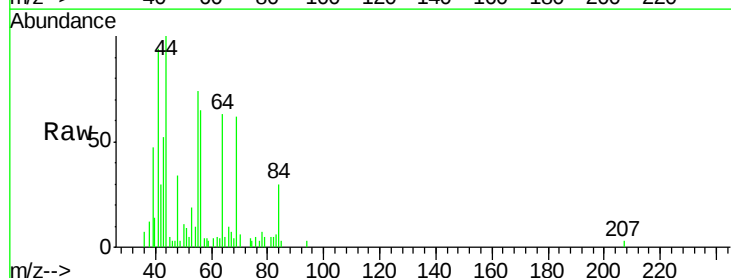
Tgt Ion: 41 Resp: 5579

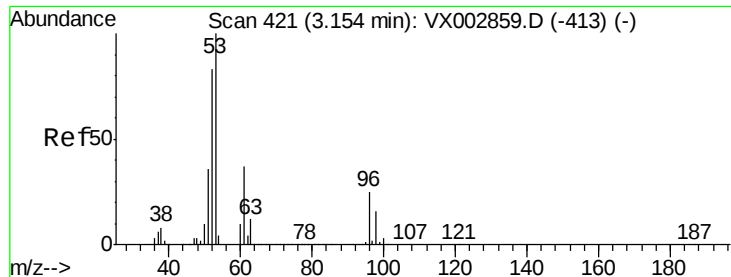
Ion Ratio Lower Upper

41 100

39 0.0 56.8 85.2#

76 3.7 23.8 35.8#





#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :
MSVOA_X
ClientSampleId :

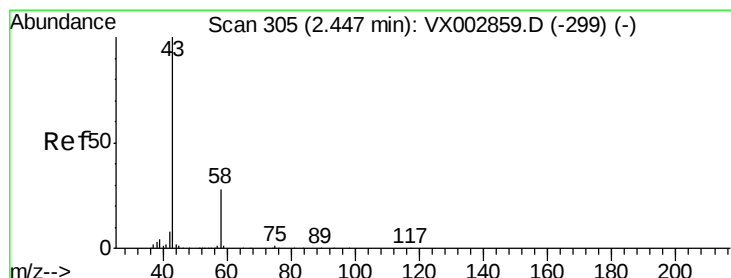
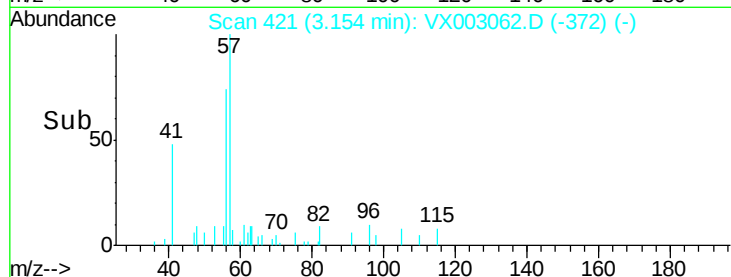
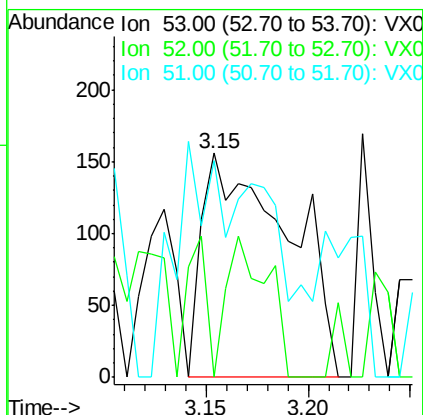
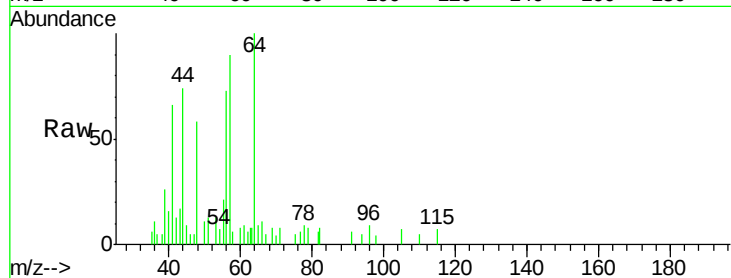
Tot Ion: 53 Resp: 456

Ion Ratio Lower Upper

53 100

52 14.0 66.7 100.1#

51 55.0 29.9 44.9#



#16

Acetone

Concen: 3.92 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003062.D

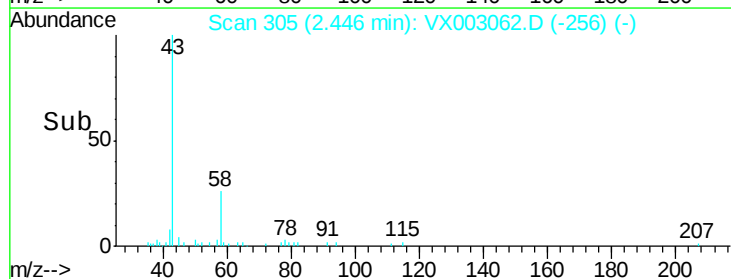
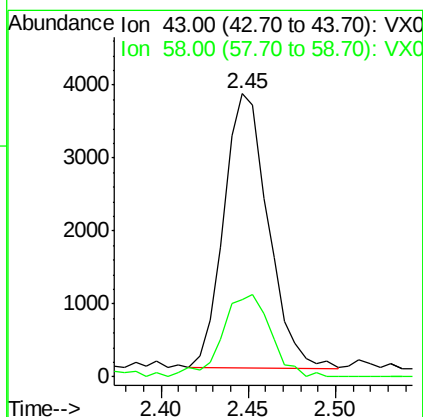
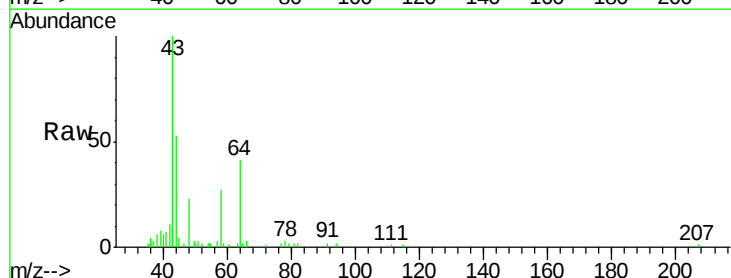
Acq: 30 Jun 2018 06:28

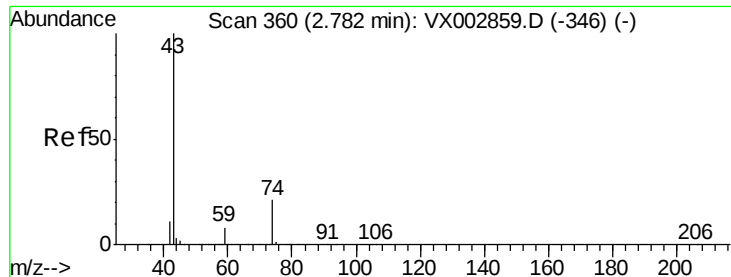
Tgt Ion: 43 Resp: 6650

Ion Ratio Lower Upper

43 100

58 28.4 22.1 33.1





#18

Methyl Acetate

Concen: 0.60 ug/l

RT: 2.77 min Scan# 358

Delta R.T. -0.01 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

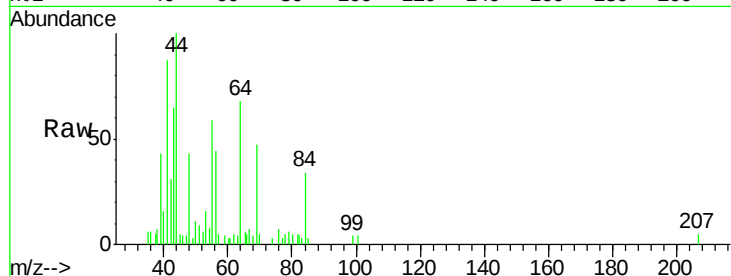
ClientSampled :

Tot Ion: 43 Resp: 2826

Ion Ratio Lower Upper

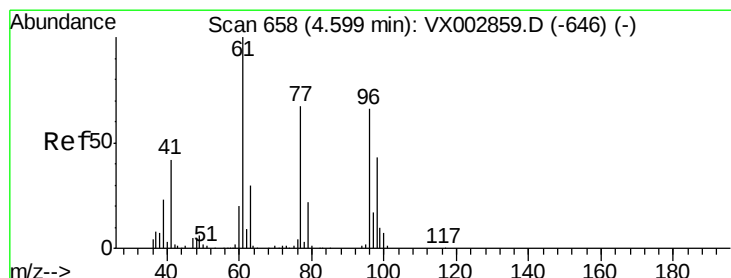
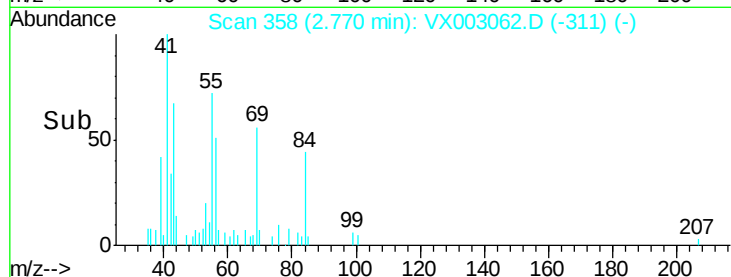
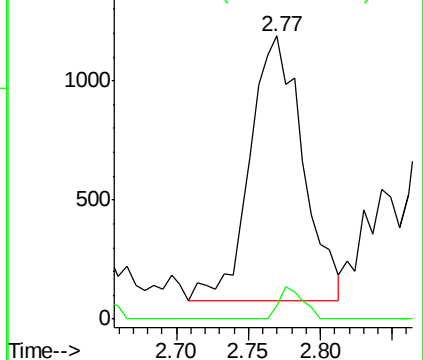
43 100

74 5.6 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 1.25 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

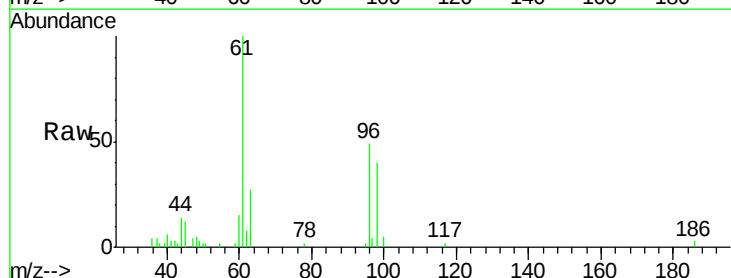
Tgt Ion: 96 Resp: 4459

Ion Ratio Lower Upper

96 100

61 257.0 0.0 330.2

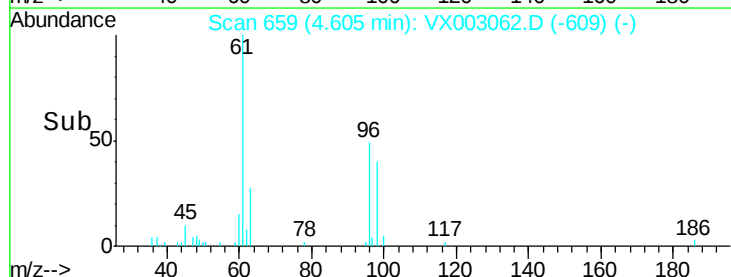
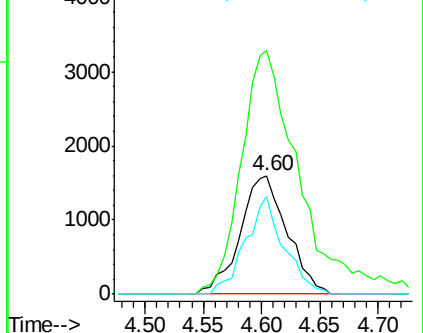
98 67.3 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

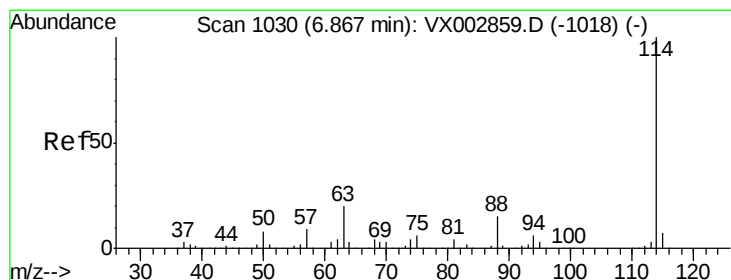
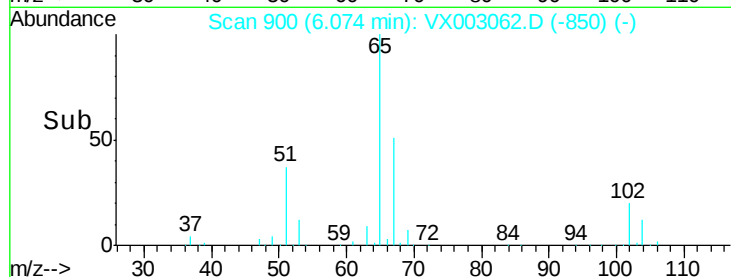
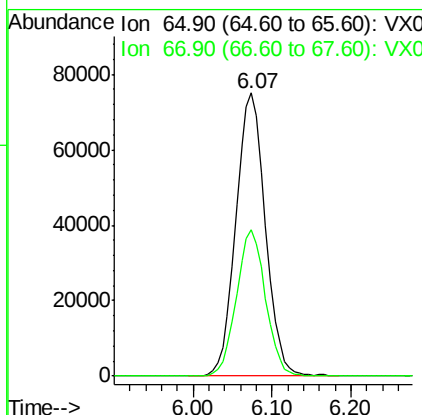
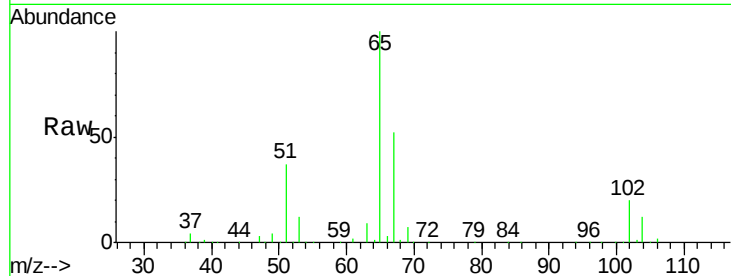




#33
 1,2-Dichloroethane-d4
 Concen: 47.52 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003062.D
 Acq: 30 Jun 2018 06:28

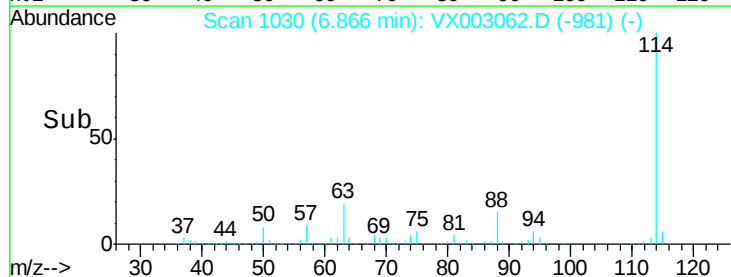
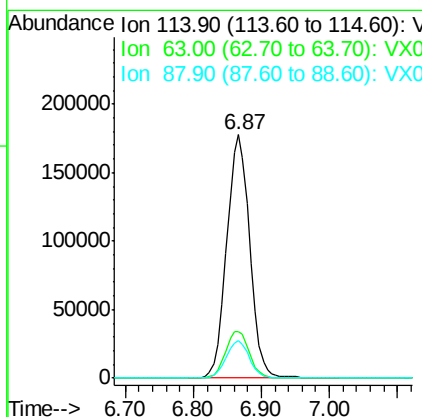
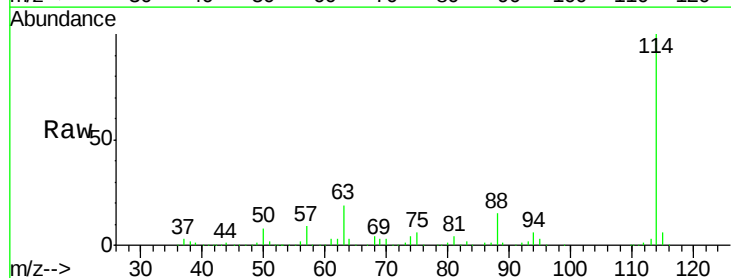
Instrument :
 MSVOA_X
 ClientSampleId :

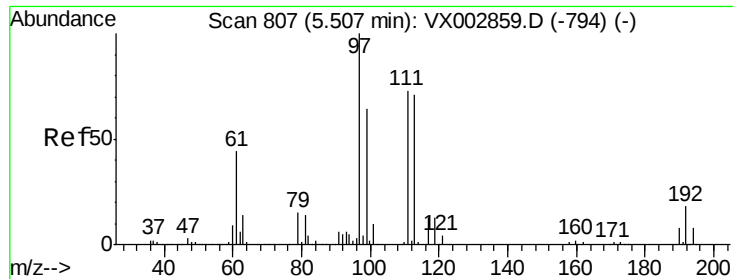
Tot Ion: 65 Resp: 194823
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003062.D
 Acq: 30 Jun 2018 06:28

Tgt Ion: 114 Resp: 415732
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.77 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

ClientSampleId :

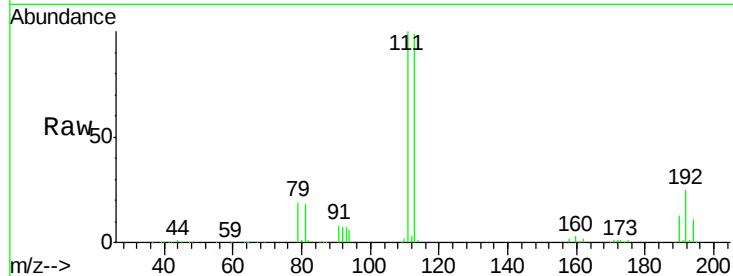
Tot Ion:113 Resp: 157261

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

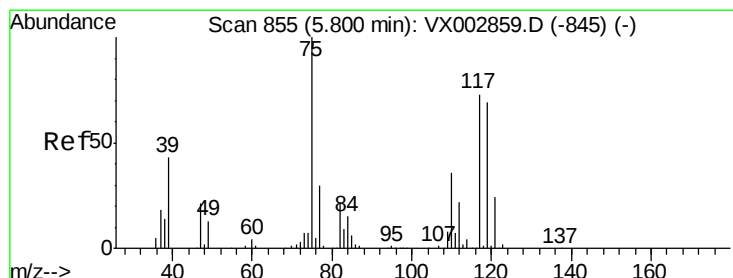
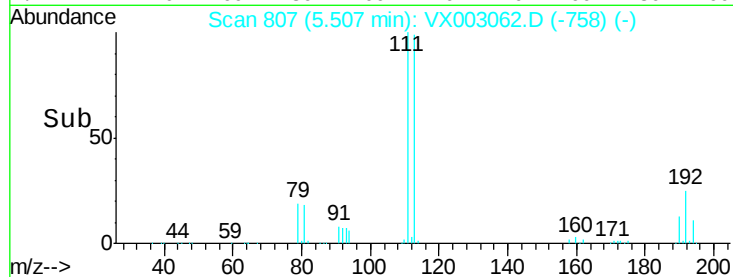
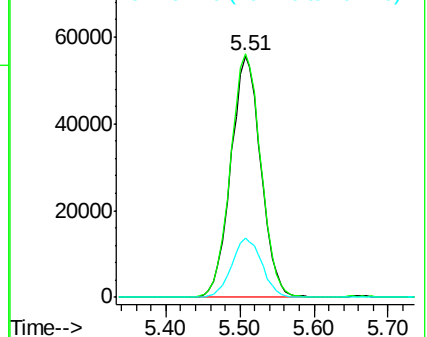
192 24.8 19.1 28.7



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: 4.25 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

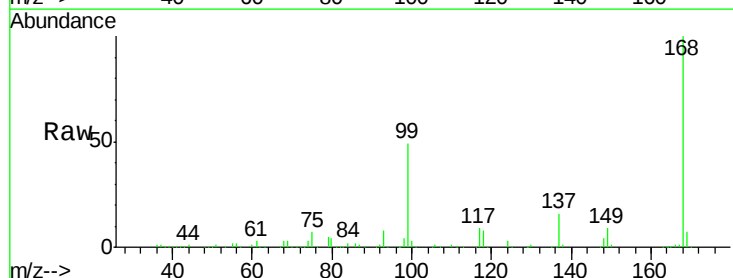
Tgt Ion: 75 Resp: 19379

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.4#

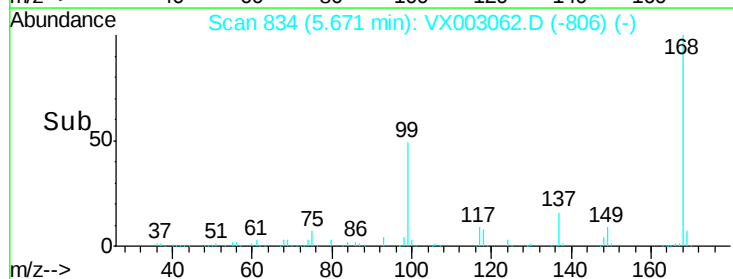
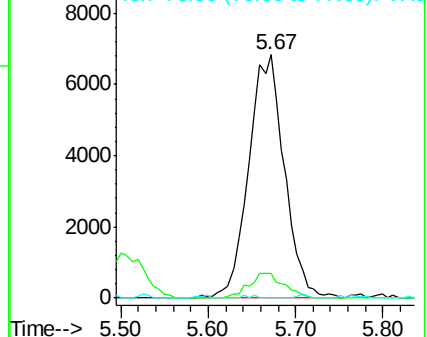
77 0.0 24.3 36.5#

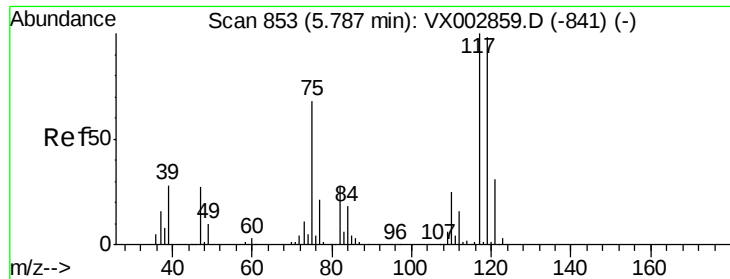


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.34 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

ClientSampled :

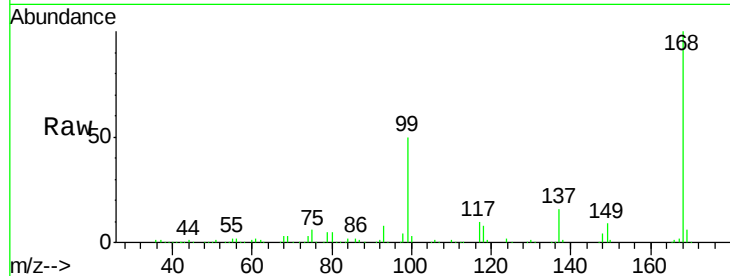
Tot Ion:117 Resp: 26730

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

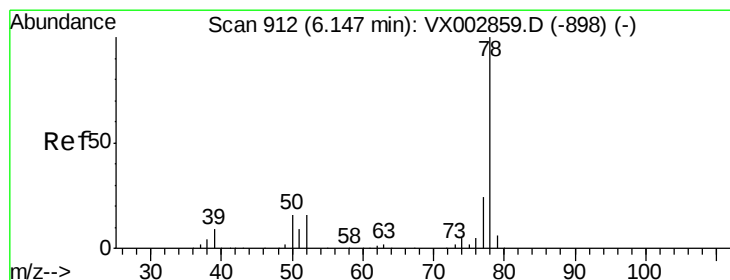
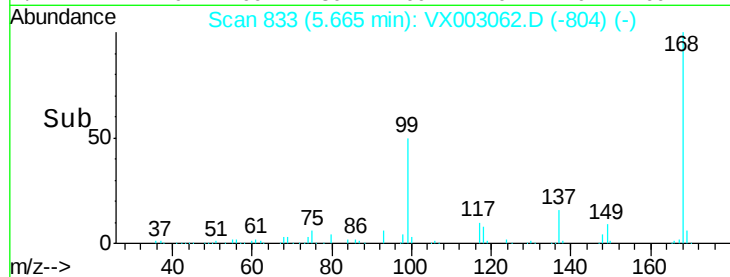
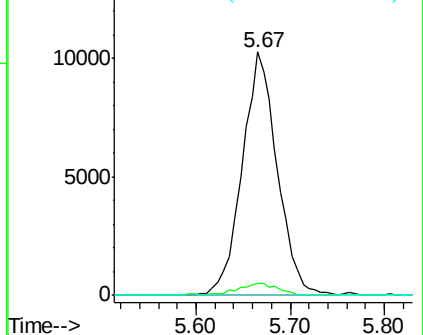
121 0.0 24.4 36.6#



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: 0.25 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX003062.D

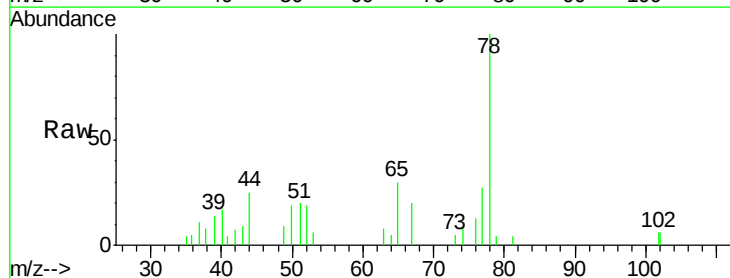
Acq: 30 Jun 2018 06:28

Tgt Ion: 78 Resp: 3333

Ion Ratio Lower Upper

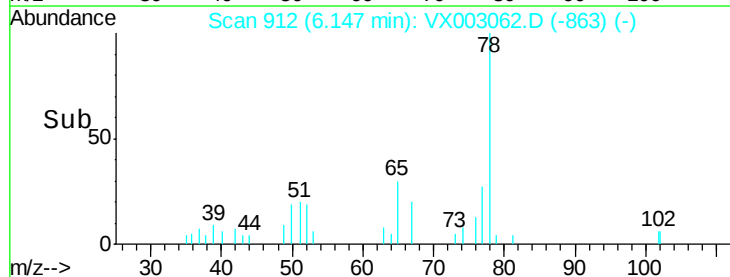
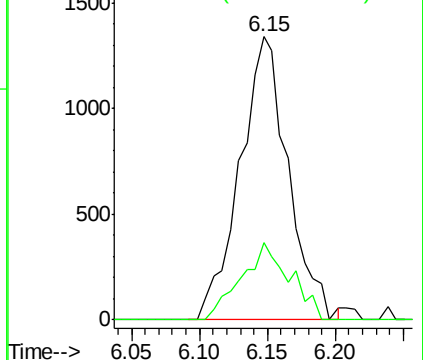
78 100

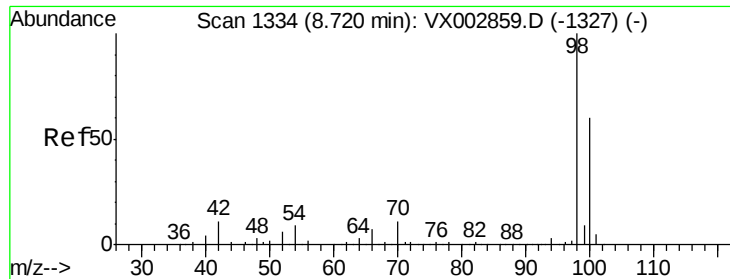
77 27.5 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 48.78 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

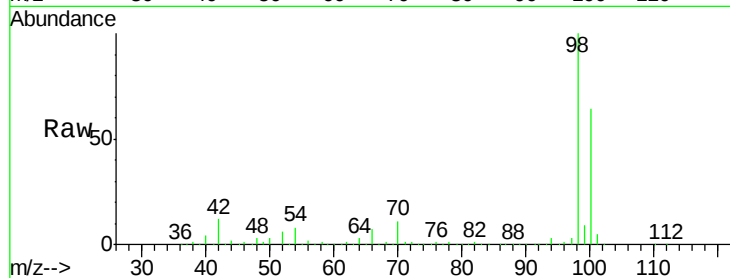
ClientSampleId :

Tot Ion: 98 Resp: 586436

Ion Ratio Lower Upper

98 100

100 63.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

300000

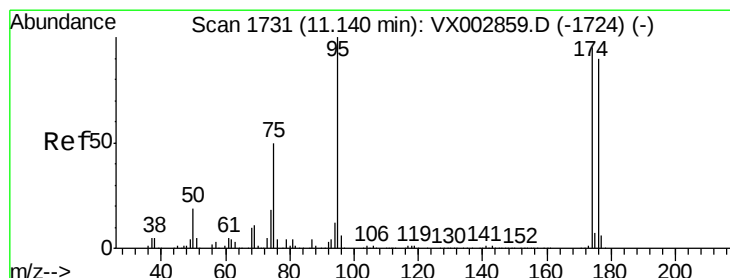
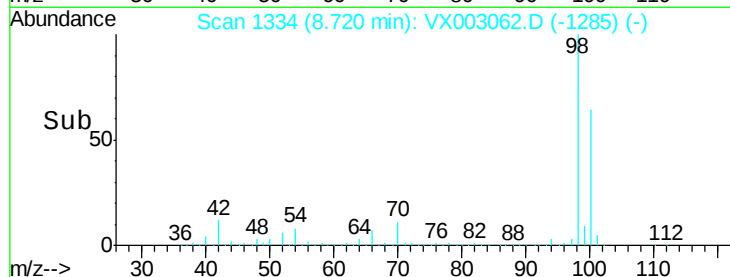
200000

100000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 45.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

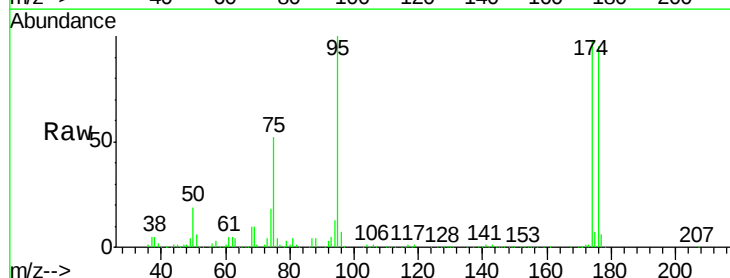
Tgt Ion: 95 Resp: 212410

Ion Ratio Lower Upper

95 100

174 97.7 0.0 187.4

176 94.7 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

200000

150000

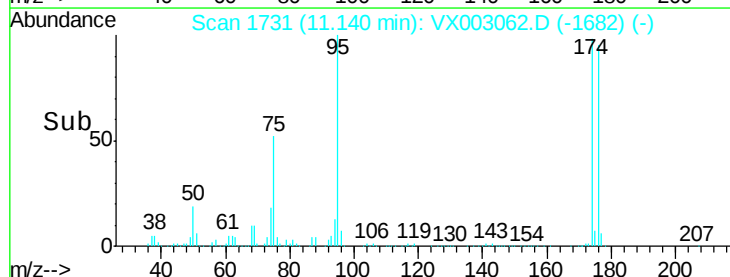
100000

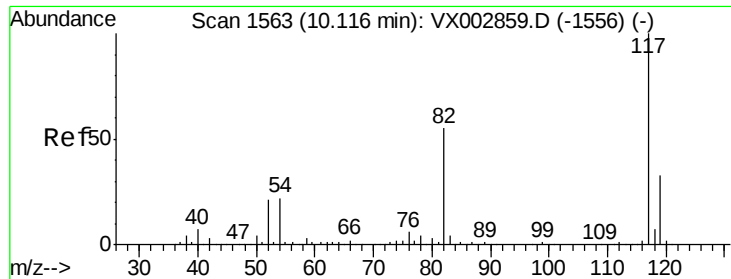
50000

0

11.10 11.20

Time-->

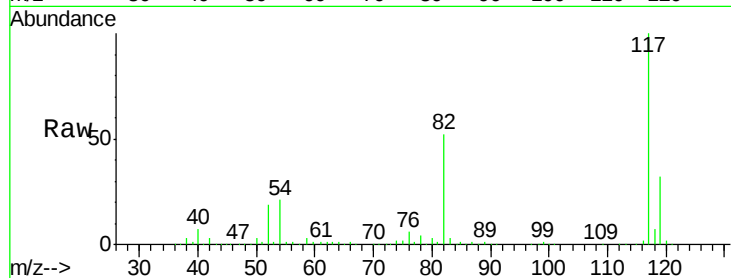




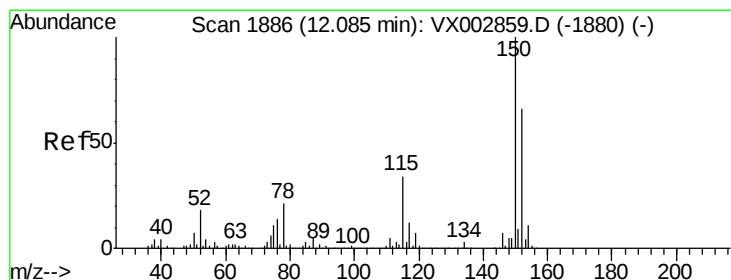
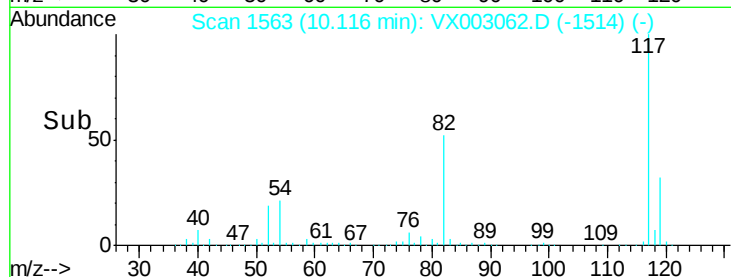
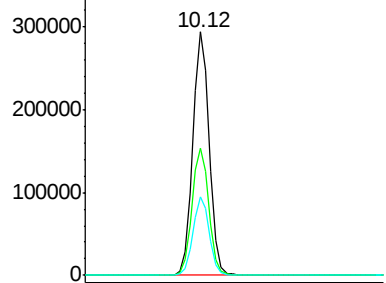
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003062.D
Acq: 30 Jun 2018 06:28

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 397186
Ion Ratio Lower Upper
117 100
82 52.4 45.0 67.4
119 32.2 25.8 38.6

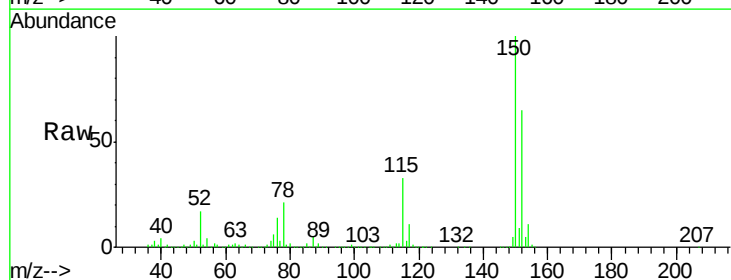


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

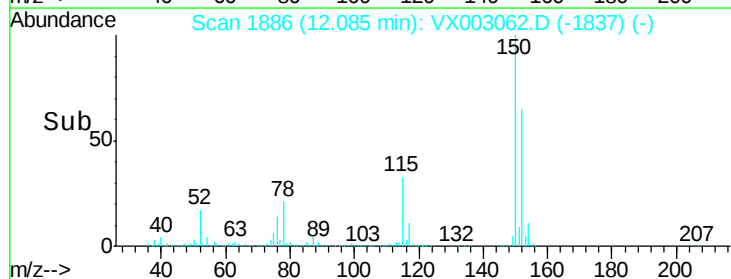
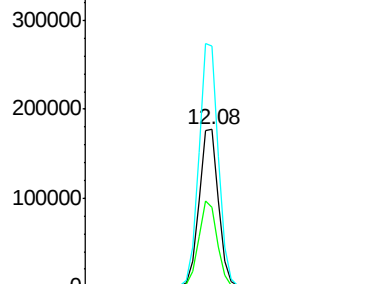


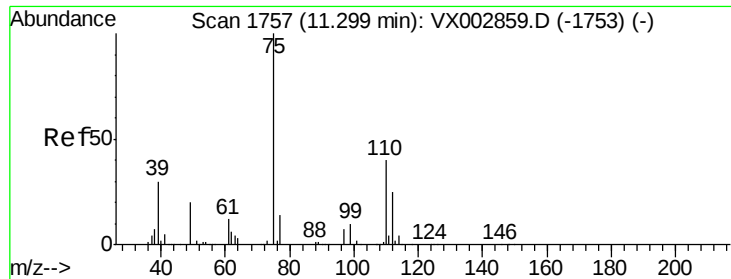
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX003062.D
Acq: 30 Jun 2018 06:28

Tgt Ion:152 Resp: 226744
Ion Ratio Lower Upper
152 100
115 53.0 40.1 120.2
150 154.3 0.0 347.2



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: 26.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Instrument :

MSVOA_X

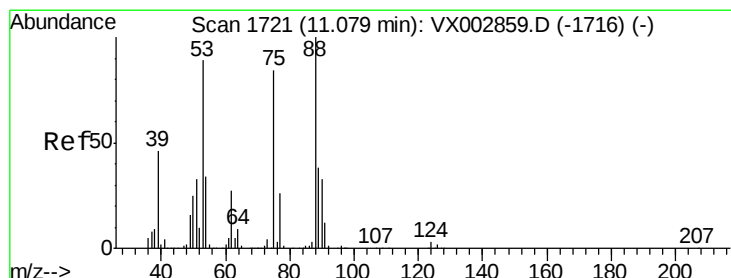
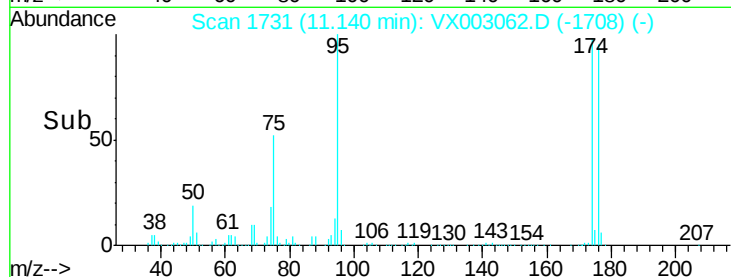
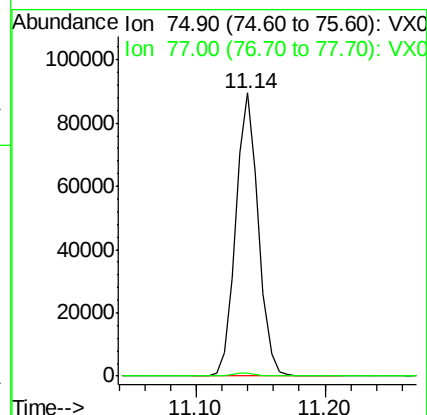
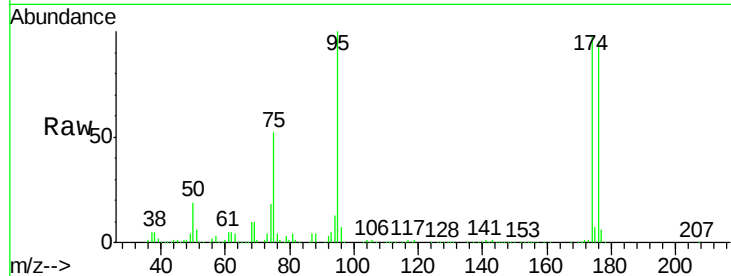
ClientSampleId :

Tot Ion: 75 Resp: 109834

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003062.D

Acq: 30 Jun 2018 06:28

Tgt Ion: 75 Resp: 109834

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

