

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112618\
 Data File : VX006196.D
 Acq On : 27 Nov 2018 01:24
 Operator : JC/MD
 Sample : J5770-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

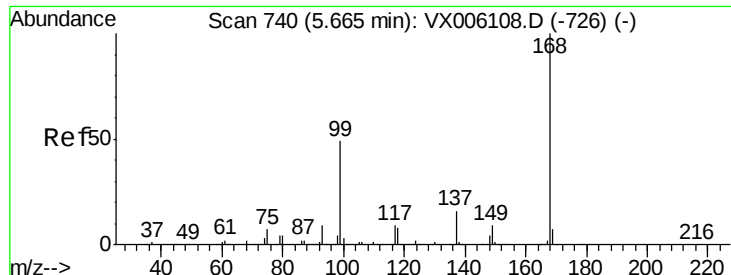
Quant Time: Nov 27 04:06:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 08:15:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	399396	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	397117	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181576	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	174104	57.13	ug/l	0.00
Spiked Amount			Recovery	=	114.26%	
35) Dibromofluoromethane	5.51	113	136996	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	
50) Toluene-d8	8.71	98	521434	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
62) 4-Bromofluorobenzene	11.14	95	168685	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	573	0.232	ug/l #	70
5) Bromomethane	1.62	94	159	3.791	ug/l #	2
6) Chloroethane	1.56	64	7457	Below Cal	#	43
11) Tert butyl alcohol	3.03	59	2352	3.628	ug/l #	78
13) Acrolein	2.31	56	725	1.869	ug/l #	33
16) Acetone	2.45	43	22720	16.799	ug/l	98
17) Carbon Disulfide	2.57	76	1719	0.335	ug/l #	87
18) Methyl Acetate	2.78	43	5791	1.670	ug/l #	83
20) Methylene Chloride	2.85	84	6593	2.893	ug/l	95
25) 2-Butanone	4.71	43	3395	1.352	ug/l #	79
29) Tetrahydrofuran	5.17	42	634	0.405	ug/l #	49
30) Chloroform	5.20	83	1210	0.255	ug/l	94
36) 1,1-Dichloropropene	5.67	75	18714	5.150	ug/l #	46
38) Carbon Tetrachloride	5.67	117	23913	7.002	ug/l #	17
43) Isopropyl Acetate	6.46	43	13279	1.967	ug/l	95
48) Methyl methacrylate	7.68	41	8925	2.607	ug/l #	17
49) 1,4-Dioxane	7.74	88	19	0.234	ug/l #	22
51) 4-Methyl-2-Pentanone	8.62	43	74010	15.292	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	31766	7.674	ug/l #	68
56) Ethyl methacrylate	9.19	69	147	2.896	ug/l #	1
57) 1,3-Dichloropropane	9.54	76	6415	1.357	ug/l #	49
58) 2-Chloroethyl Vinyl ether	8.31	63	270	6.827	ug/l	93
59) 2-Hexanone	9.54	43	99174	25.820	ug/l #	52
74) N-ethyl acetate	10.91	43	187	2.224	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	86615	23.170	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	86615	78.366	ug/l #	7
95) Naphthalene	13.83	128	30314	2.522	ug/l	99

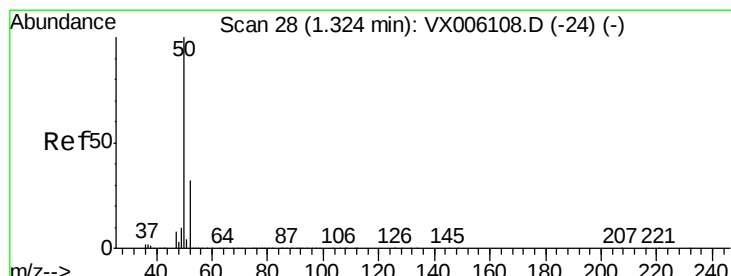
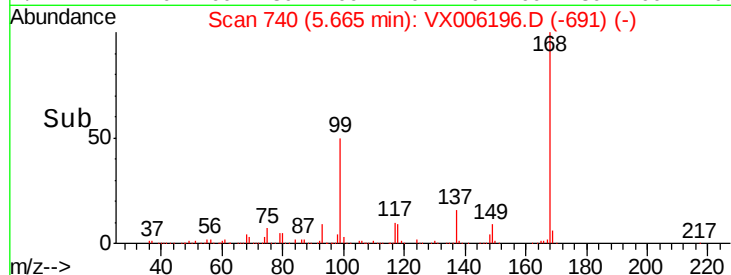
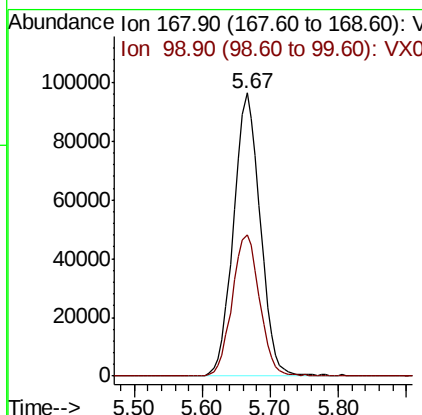
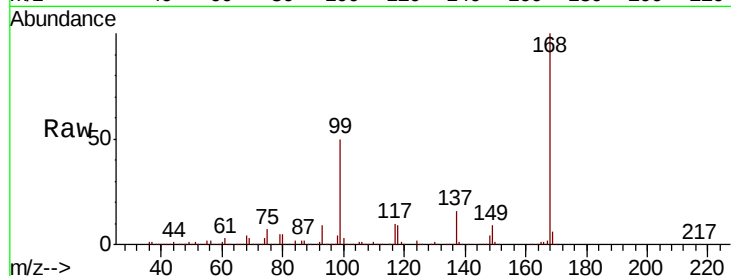
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.00 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

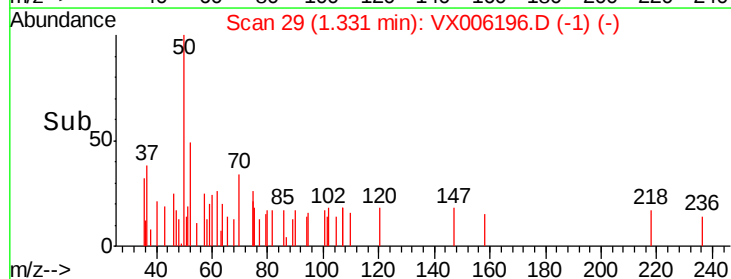
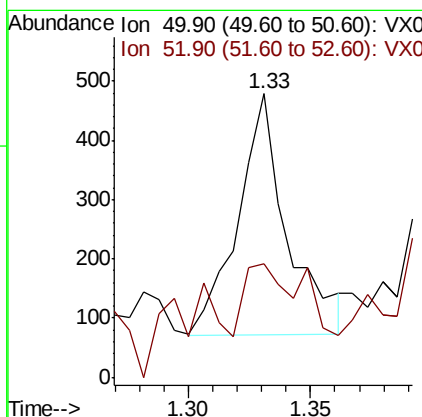
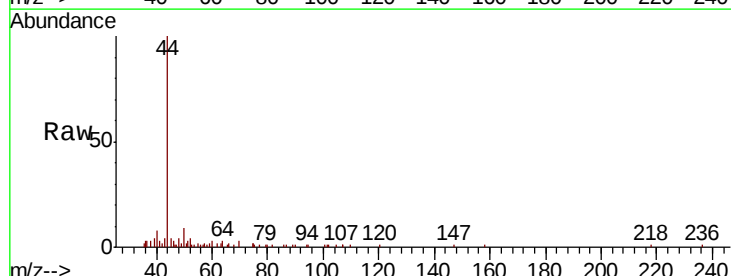
Instrument :
MSVOA_X
ClientSampled :

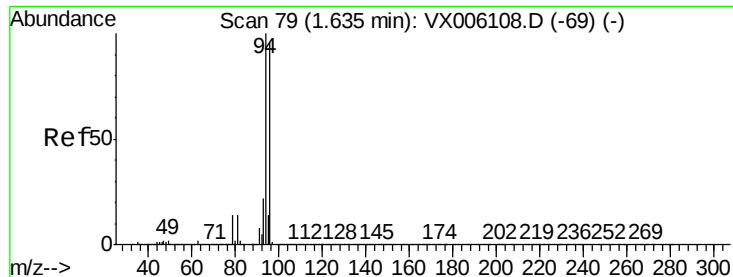
Tot Ion:168 Resp: 263021
Ion Ratio Lower Upper
168 100
99 49.8 39.2 58.8



#3
Chloromethane
Concen: 0.232 ug/l
RT: 1.33 min Scan# 29
Delta R.T. 0.01 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

Tgt Ion: 50 Resp: 573
Ion Ratio Lower Upper
50 100
52 15.0 25.6 38.4#





#5

Bromomethane

Concen: 3.791 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

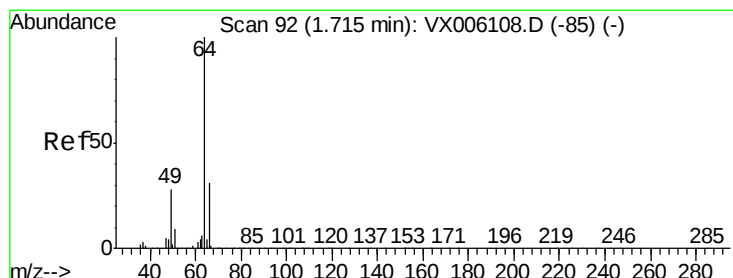
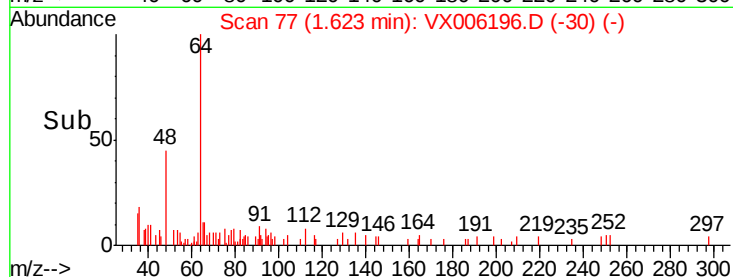
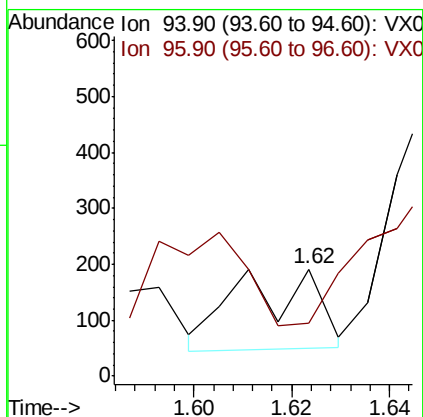
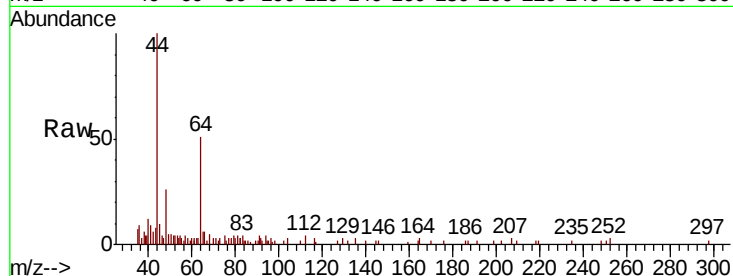
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 159

Ion Ratio Lower Upper

94 100

96 0.0 76.7 115.1#



#6

Chloroethane

Concen: Below Cal

RT: 1.56 min Scan# 66

Delta R.T. -0.16 min

Lab File: VX006196.D

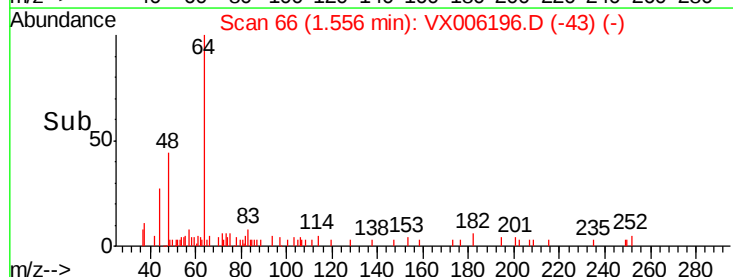
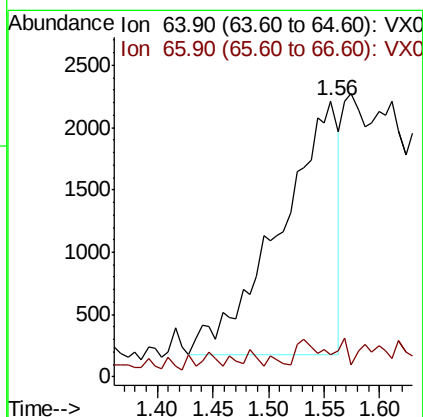
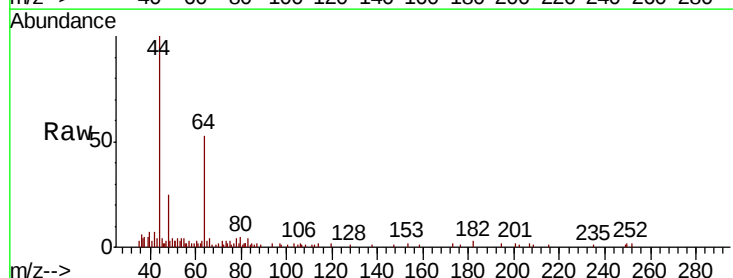
Acq: 27 Nov 2018 01:24

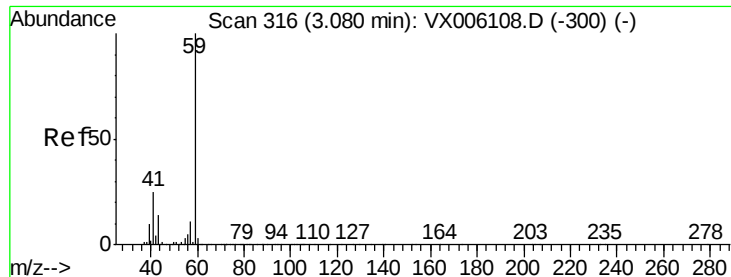
Tgt Ion: 64 Resp: 7457

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#

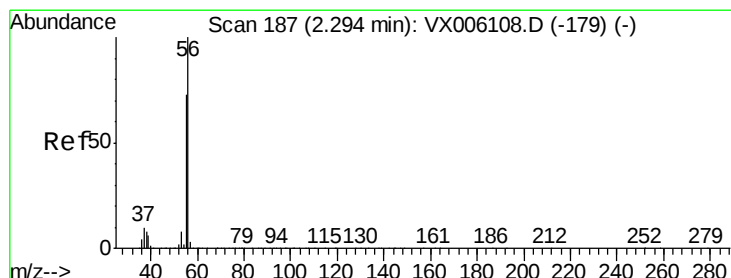
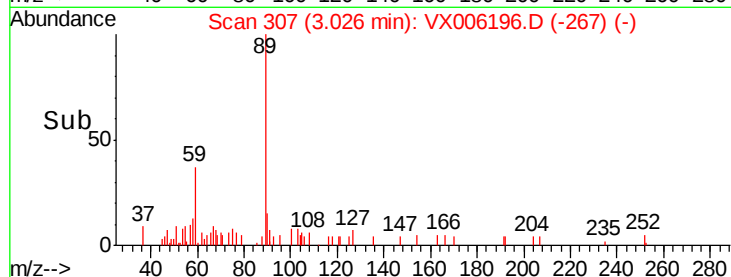
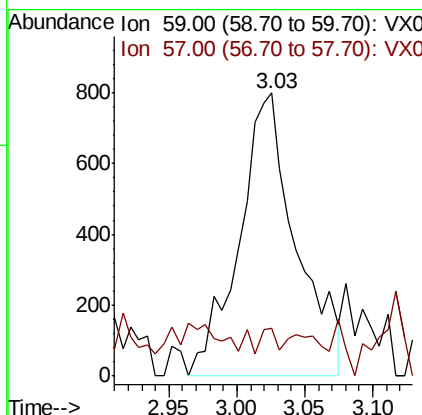
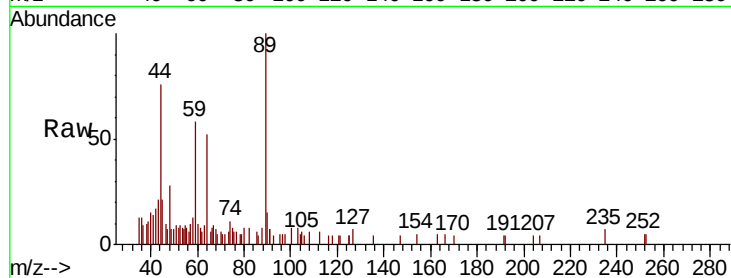




#11
Tert butyl alcohol
Concen: 3.628 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

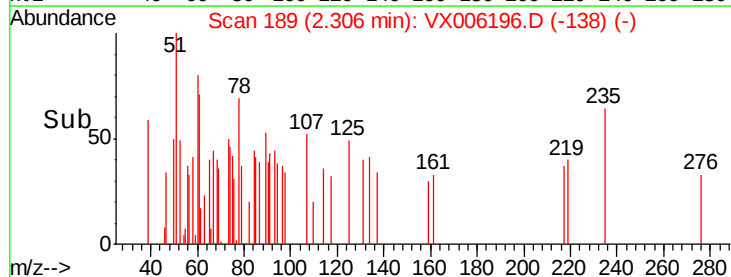
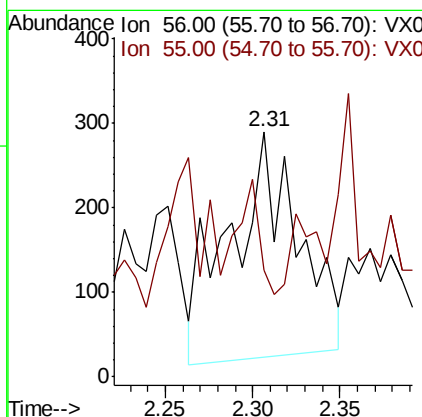
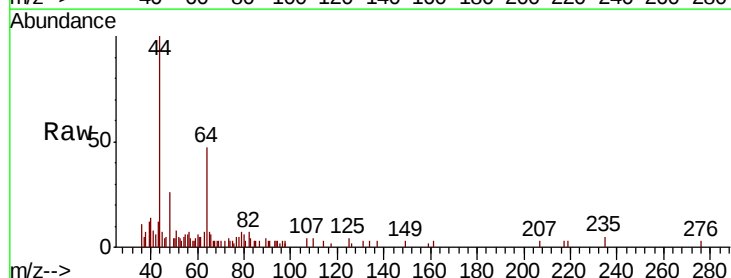
Instrument :
MSVOA_X
ClientSampled :

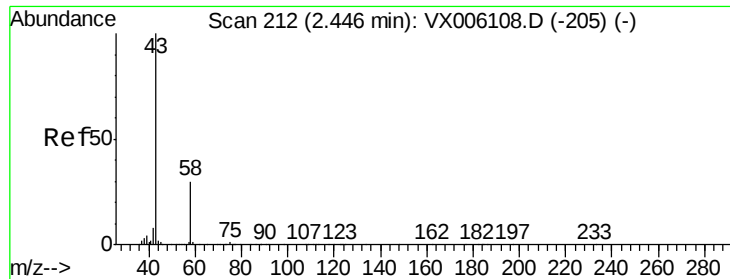
Tot Ion: 59 Resp: 2352
Ion Ratio Lower Upper
59 100
57 2.4 8.7 13.1#



#13
Acrolein
Concen: 1.869 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

Tgt Ion: 56 Resp: 725
Ion Ratio Lower Upper
56 100
55 16.1 57.8 86.6#





#16

Acetone

Concen: 16.799 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :

MSVOA_X

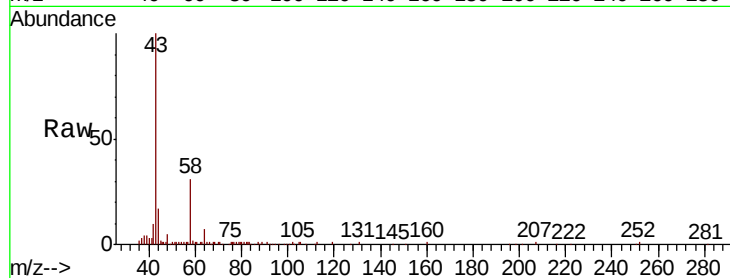
ClientSampleId :

Tot Ion: 43 Resp: 22720

Ion Ratio Lower Upper

43 100

58 30.7 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

15000

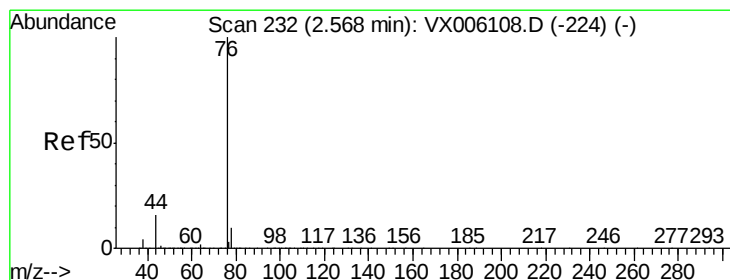
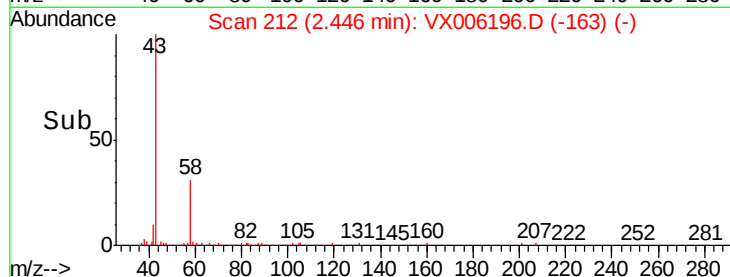
10000

5000

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.335 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX006196.D

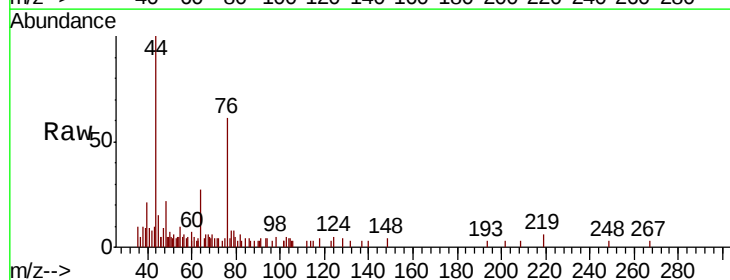
Acq: 27 Nov 2018 01:24

Tgt Ion: 76 Resp: 1719

Ion Ratio Lower Upper

76 100

78 14.6 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1200

1000

800

600

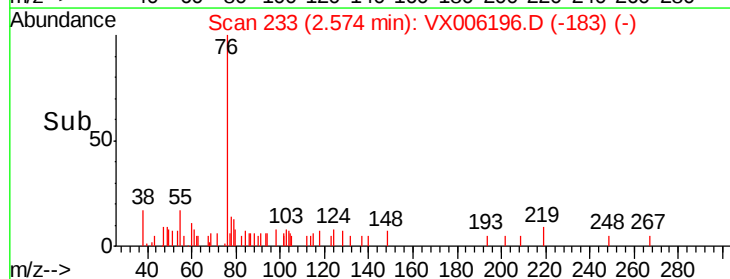
400

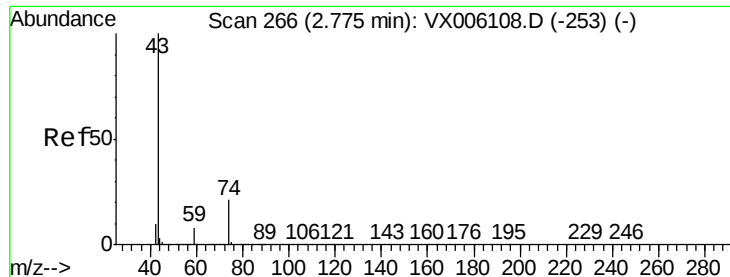
200

0

2.55 2.60 2.65

Time-->

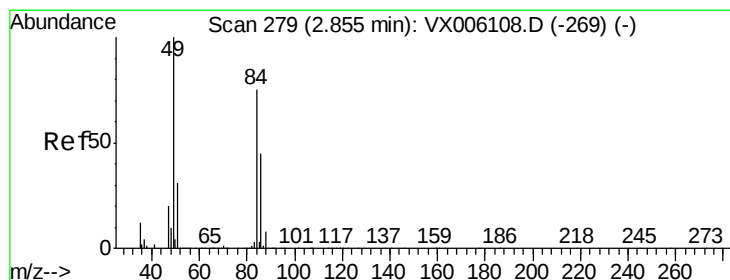
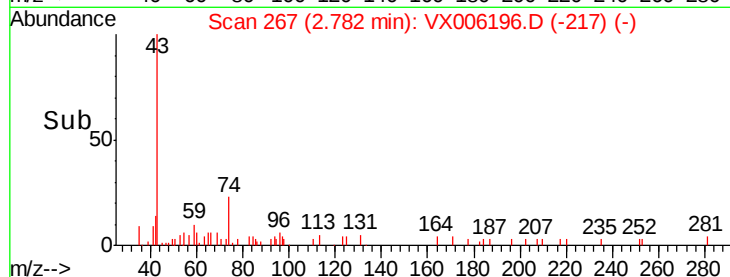
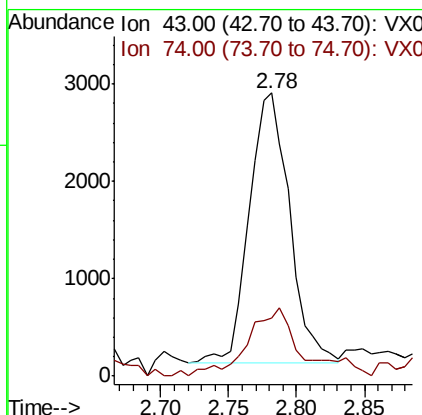
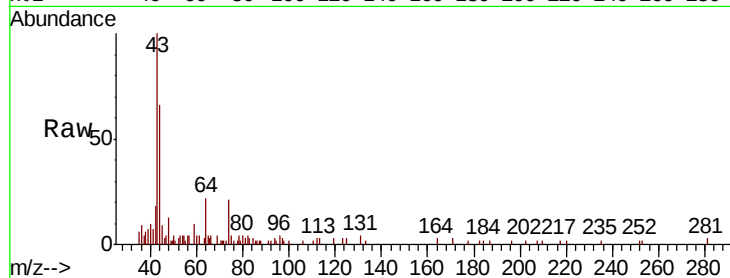




#18
Methvl Acetate
Concen: 1.670 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

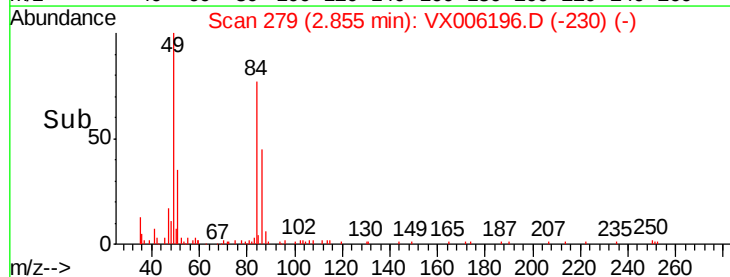
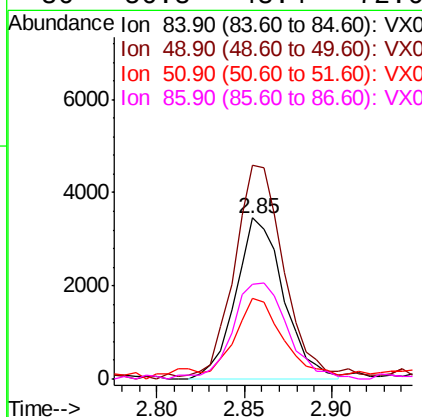
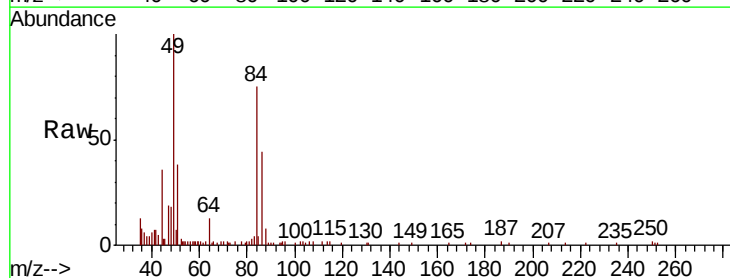
Instrument :
MSVOA_X
ClientSampleId :

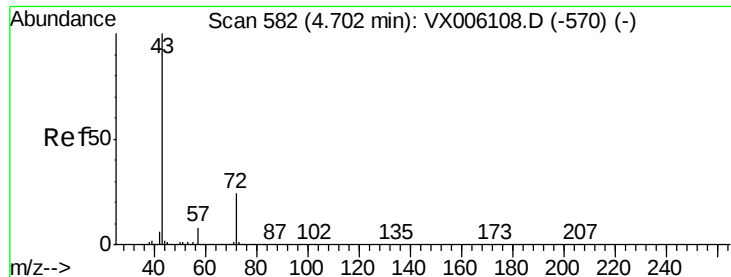
Tot Ion: 43 Resp: 5791
Ion Ratio Lower Upper
43 100
74 29.8 17.3 25.9#



#20
Methylene Chloride
Concen: 2.893 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

Tgt Ion: 84 Resp: 6593
Ion Ratio Lower Upper
84 100
49 129.9 106.6 159.8
51 47.1 32.6 49.0
86 56.8 48.4 72.6





#25

2-Butanone

Concen: 1.352 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

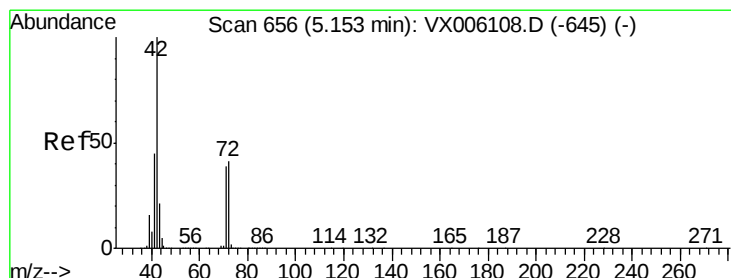
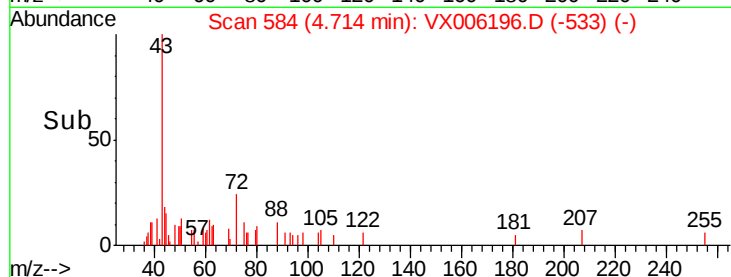
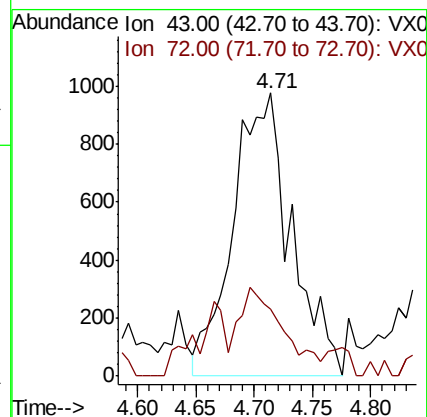
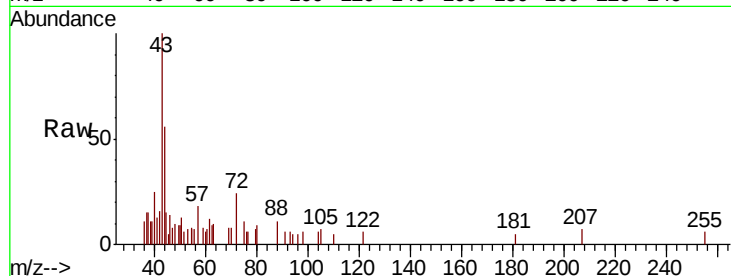
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 3395

Ion Ratio Lower Upper

43 100

72 13.6 19.2 28.8#



#29

Tetrahydrofuran

Concen: 0.405 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

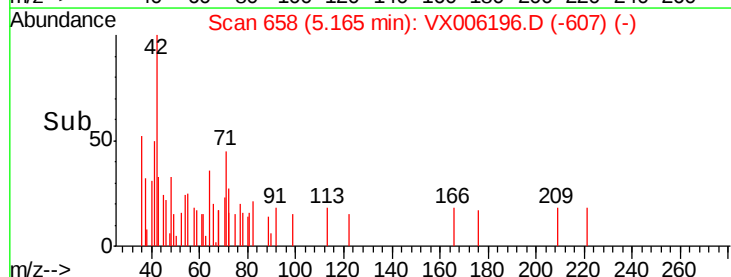
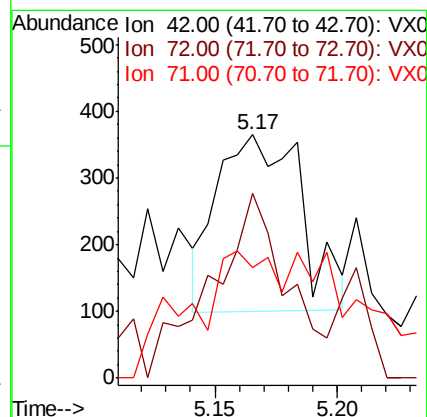
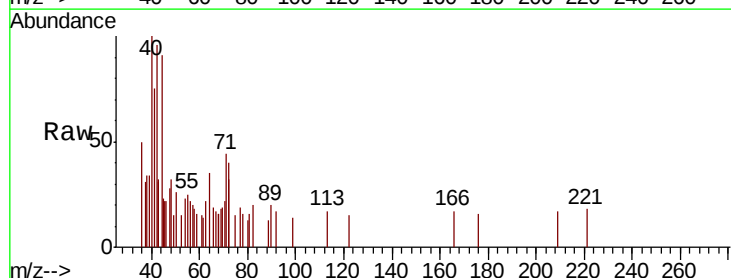
Tgt Ion: 42 Resp: 634

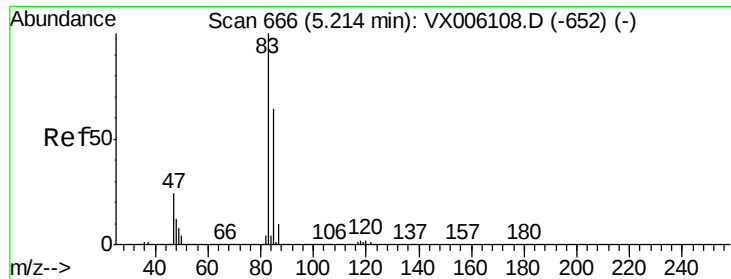
Ion Ratio Lower Upper

42 100

72 93.7 33.0 49.6#

71 28.2 31.0 46.4#

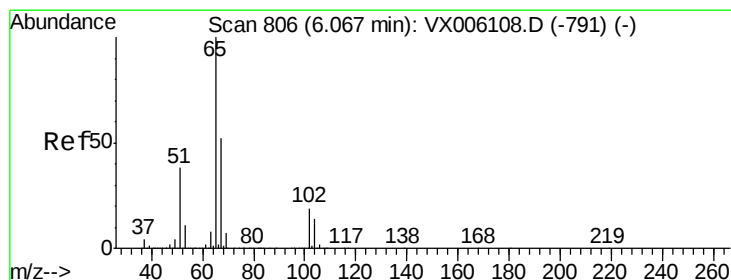
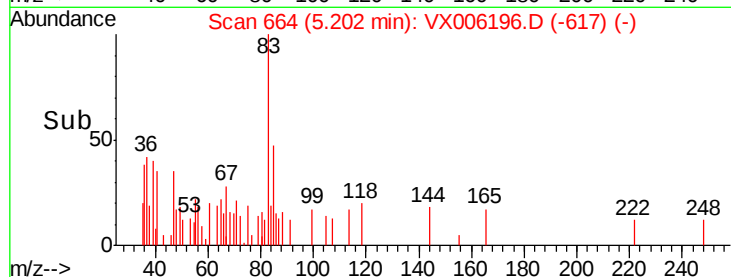
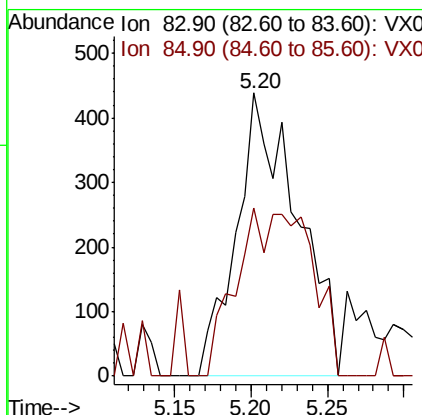
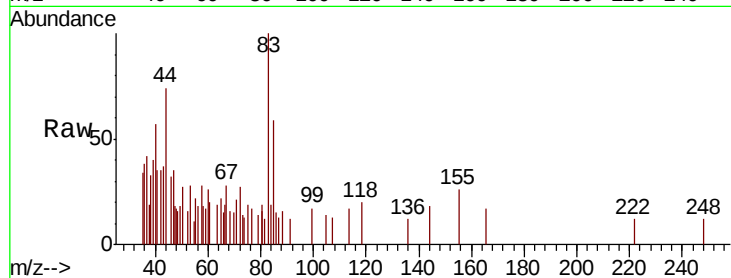




#30
 Chloroform
 Concen: 0.255 ug/l
 RT: 5.20 min Scan# 664
 Delta R.T. -0.01 min
 Lab File: VX006196.D
 Acq: 27 Nov 2018 01:24

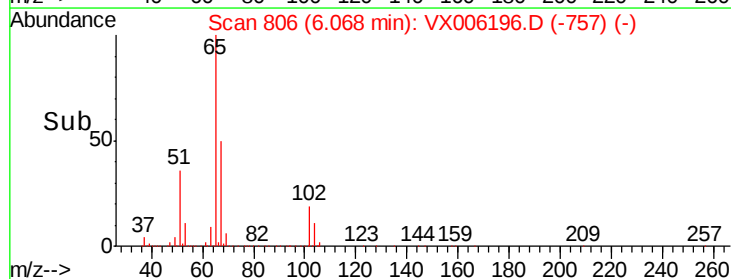
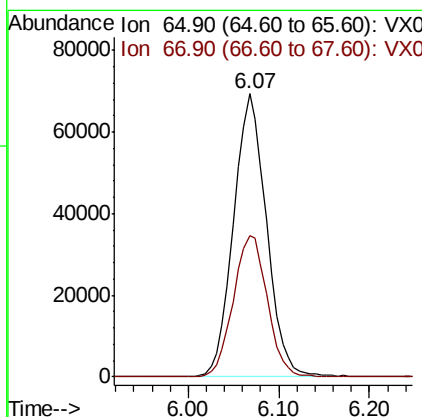
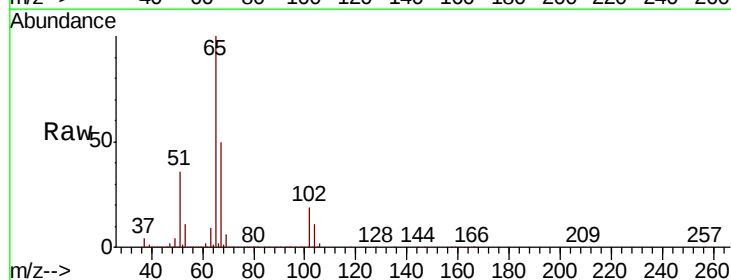
Instrument :
 MSVOA_X
 ClientSampleId :

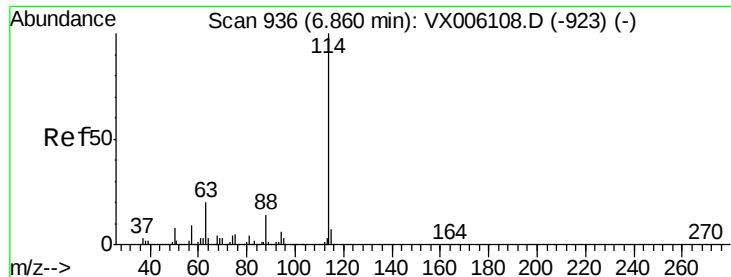
Tot Ion: 83 Resp: 1210
 Ion Ratio Lower Upper
 83 100
 85 59.4 51.0 76.4



#33
 1,2-Dichloroethane-d4
 Concen: 57.126 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006196.D
 Acq: 27 Nov 2018 01:24

Tgt Ion: 65 Resp: 174104
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.8

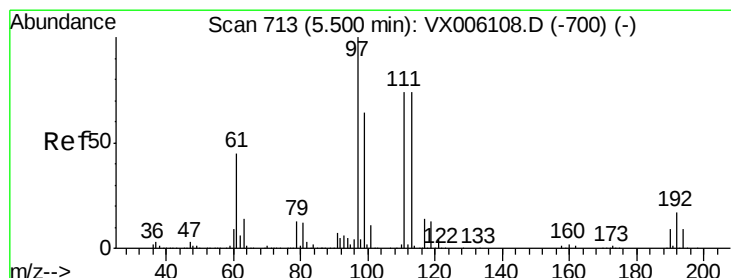
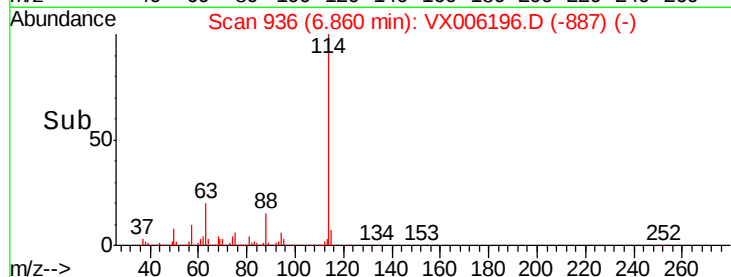
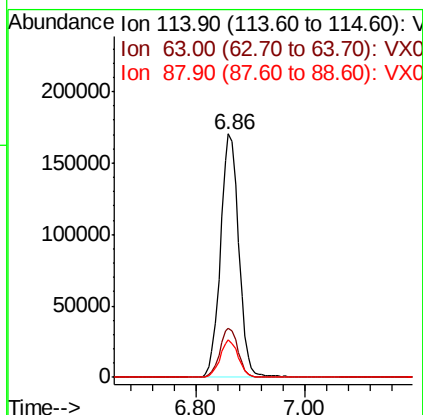
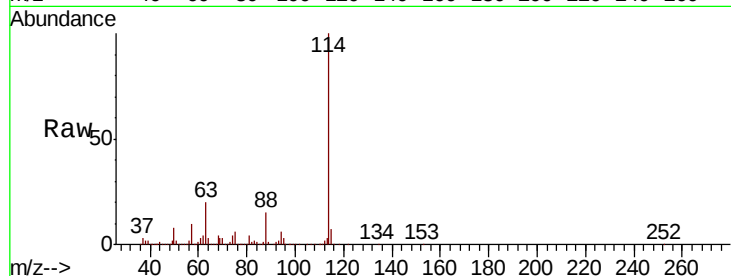




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

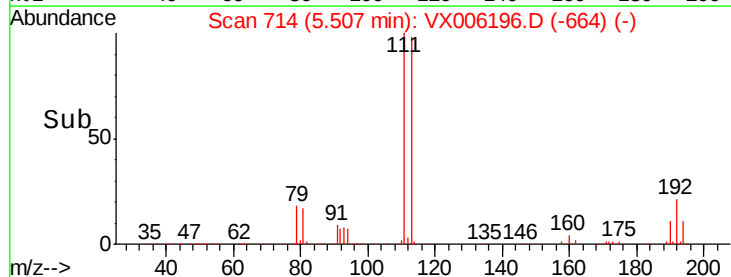
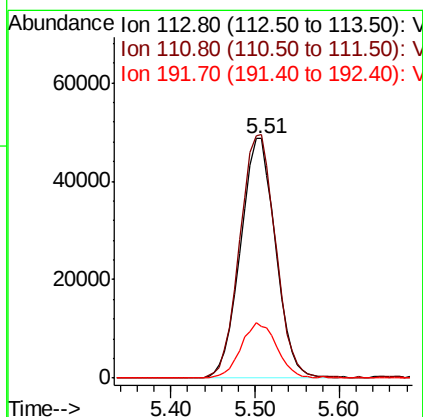
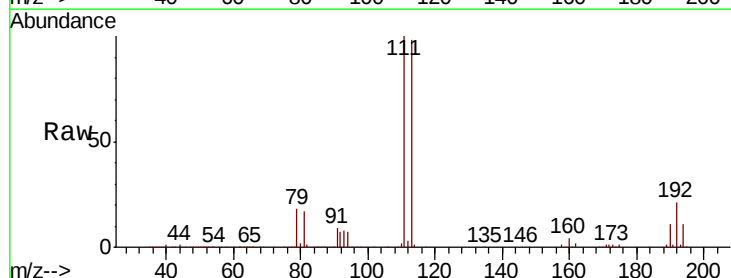
Instrument :
MSVOA_X
ClientSampled :

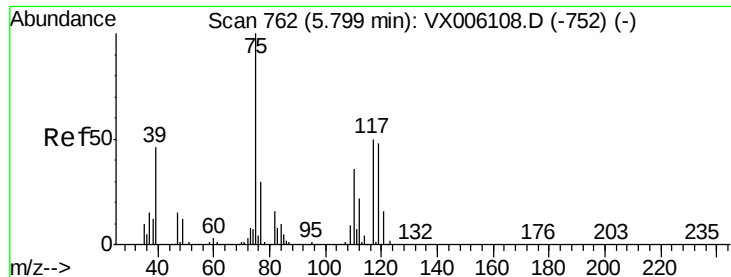
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	39.2
88	15.4	0.0	28.6



#35
Dibromofluoromethane
Concen: 53.435 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX006196.D
Acq: 27 Nov 2018 01:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.5	122.3
192	23.8	18.6	28.0





#36

1,1-Dichloropropene

Concen: 5.150 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :

MSVOA_X

ClientSampled :

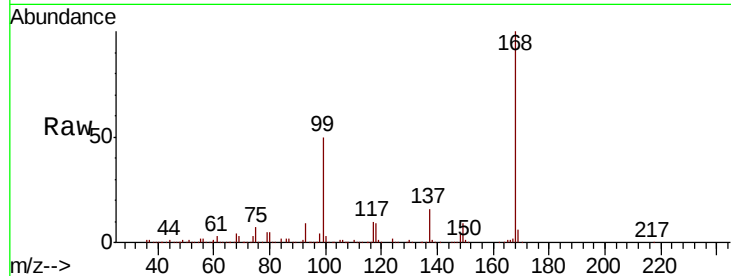
Tot Ion: 75 Resp: 18714

Ion Ratio Lower Upper

75 100

110 4.6 17.8 53.3#

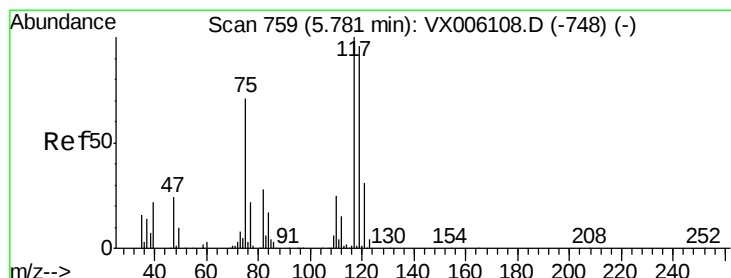
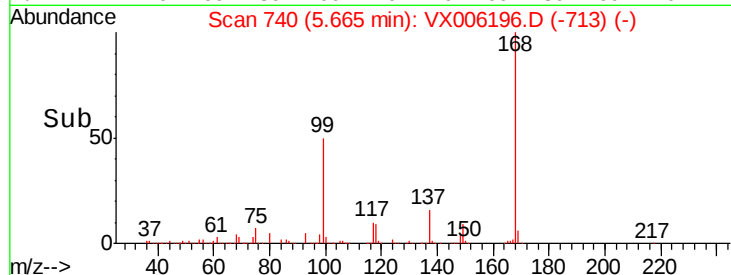
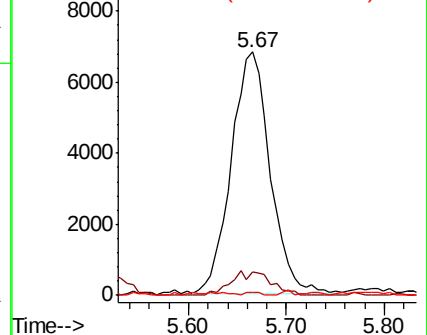
77 0.5 24.5 36.7#



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: 7.002 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

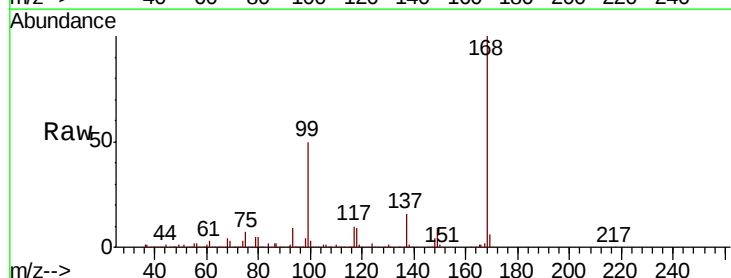
Tgt Ion:117 Resp: 23913

Ion Ratio Lower Upper

117 100

119 6.1 76.3 114.5#

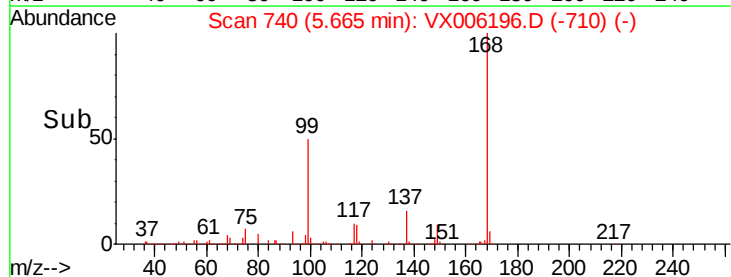
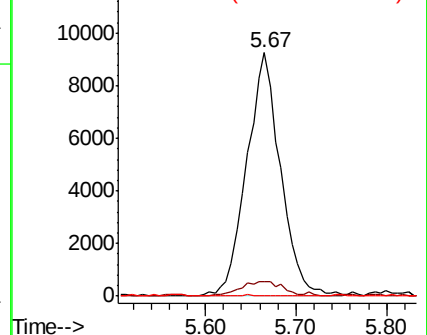
121 0.0 24.7 37.1#

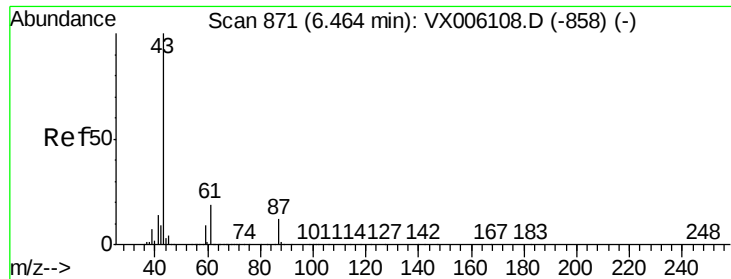


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.967 ug/l

RT: 6.46 min Scan# 871

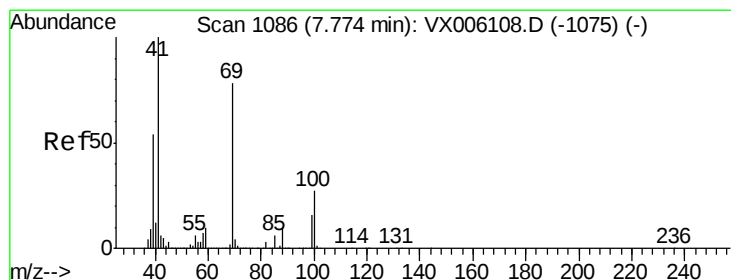
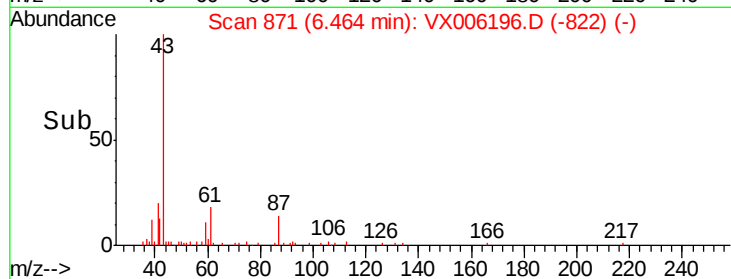
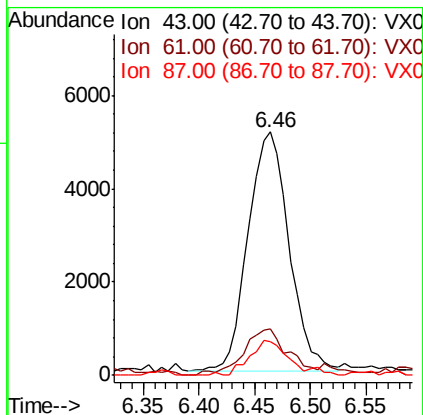
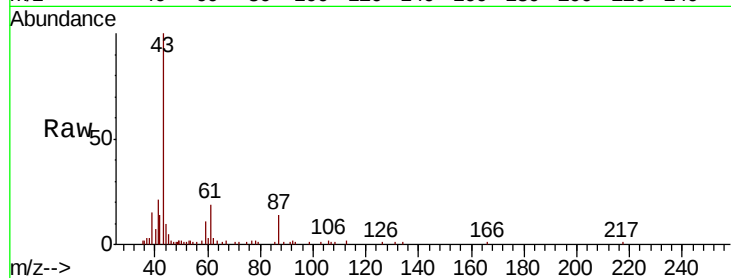
Delta R.T. 0.00 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	43	Resp:	13279
Ion	Ratio	Lower	Upper
43	100		
61	20.8	15.2	22.8
87	14.2	9.6	14.4



#48

Methyl methacrylate

Concen: 2.607 ug/l

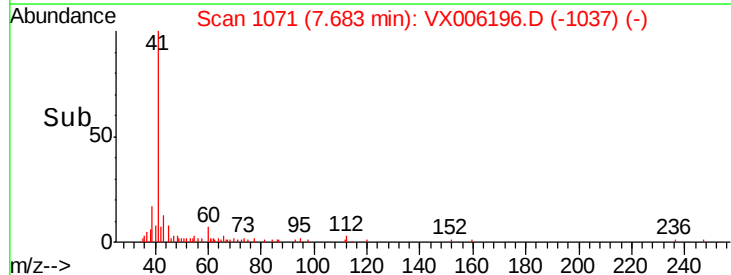
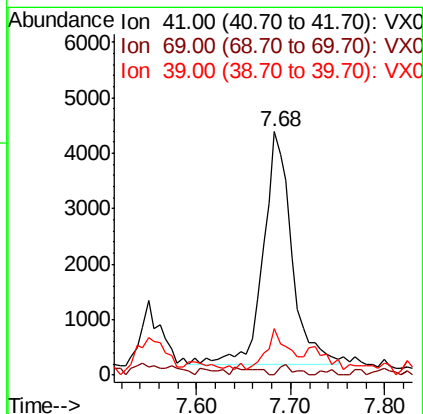
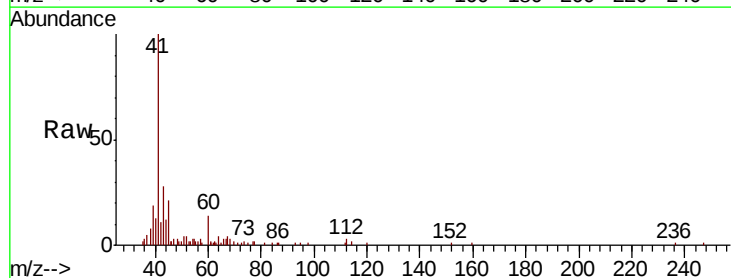
RT: 7.68 min Scan# 1071

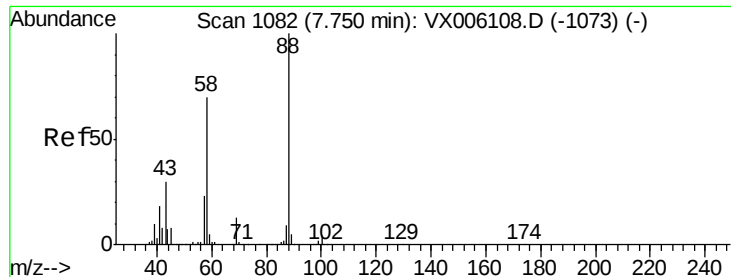
Delta R.T. -0.09 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Tgt Ion:	41	Resp:	8925
Ion	Ratio	Lower	Upper
41	100		
69	2.1	62.8	94.2#
39	0.0	43.8	65.6#

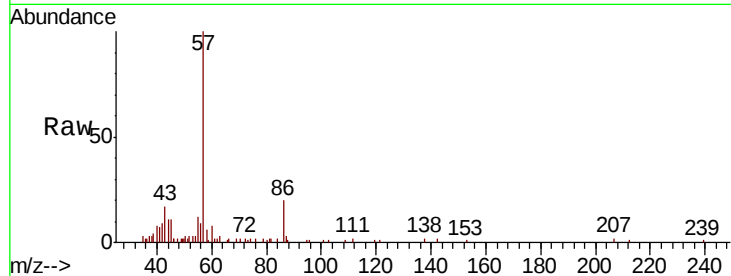




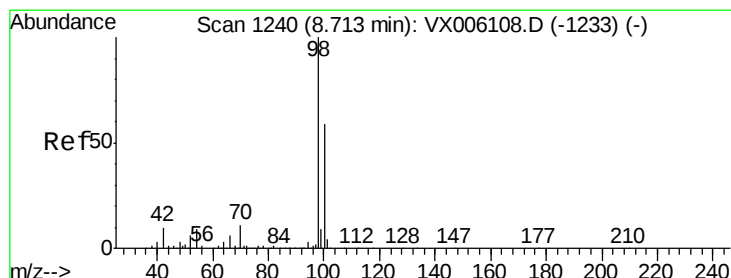
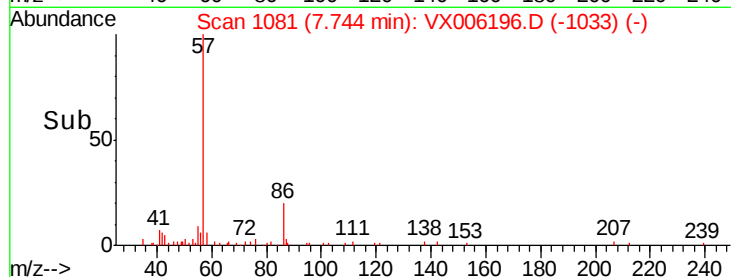
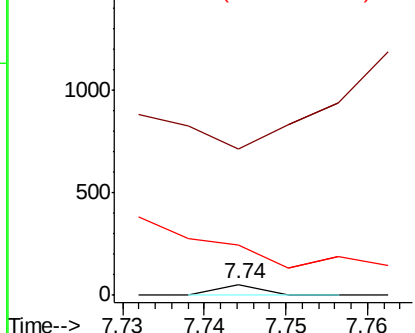
#49
 1,4-Dioxane
 Concen: 0.234 ug/l
 RT: 7.74 min Scan# 1081
 Delta R.T. -0.01 min
 Lab File: VX006196.D
 Acq: 27 Nov 2018 01:24

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 0.0 26.7 40.1#
 58 0.0 58.5 87.7#

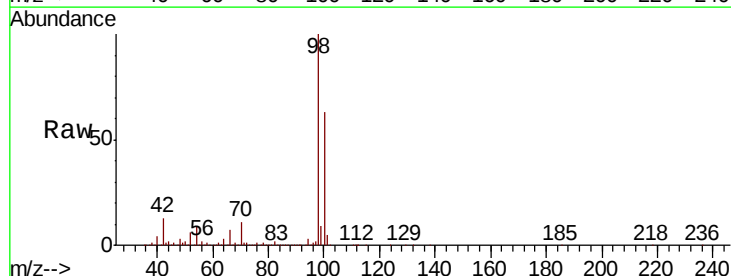


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

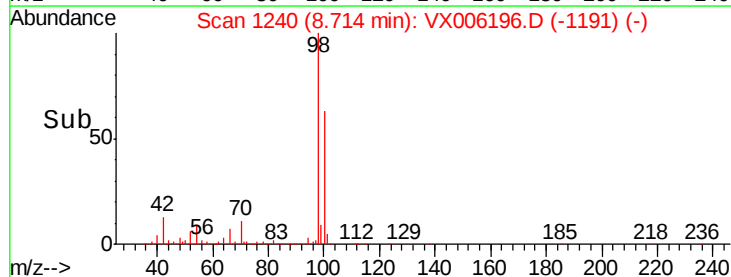
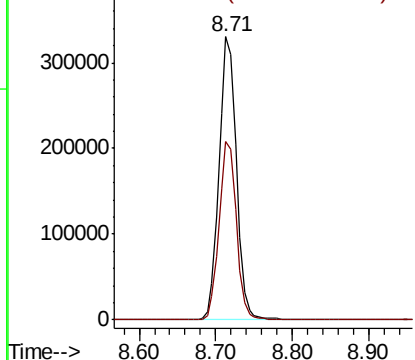


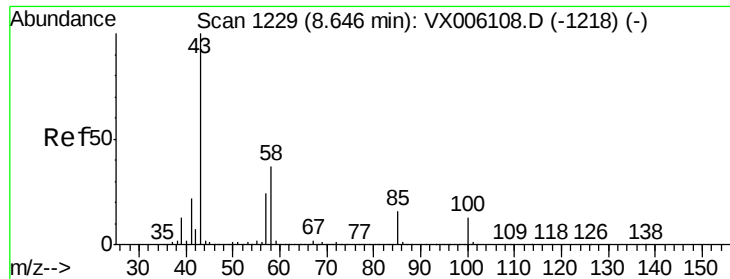
#50
 Toluene-d8
 Concen: 53.323 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX006196.D
 Acq: 27 Nov 2018 01:24

Tgt Ion: 98 Resp: 521434
 Ion Ratio Lower Upper
 98 100
 100 62.7 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 15.292 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :

MSVOA_X

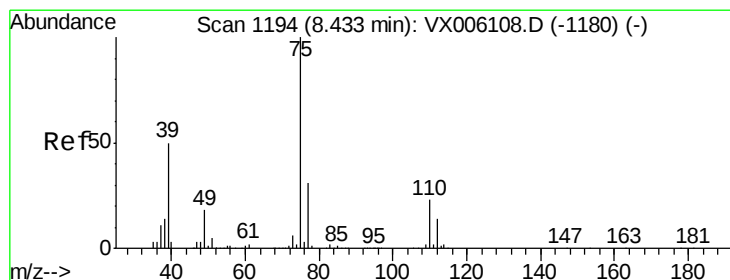
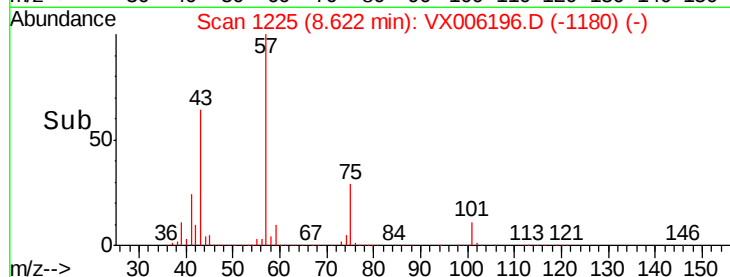
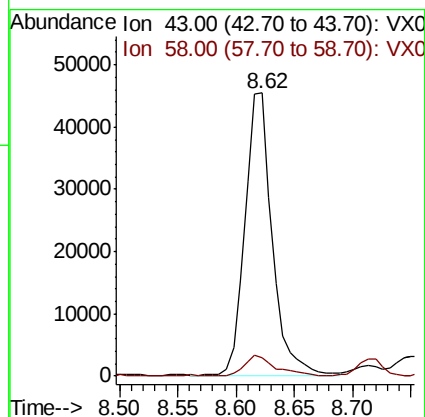
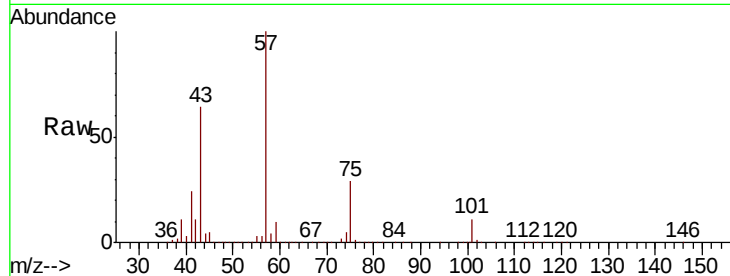
ClientSampleId :

Tot Ion: 43 Resp: 74010

Ion Ratio Lower Upper

43 100

58 8.0 29.9 44.9#



#54

cis-1,3-Dichloropropene

Concen: 7.674 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

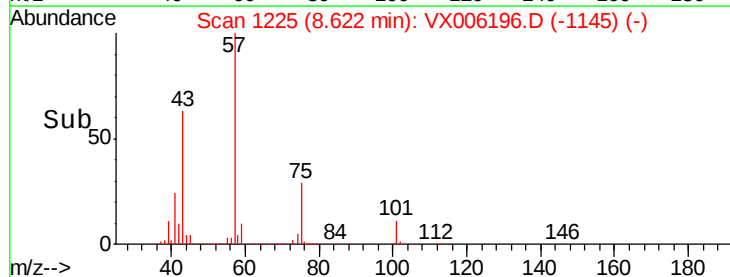
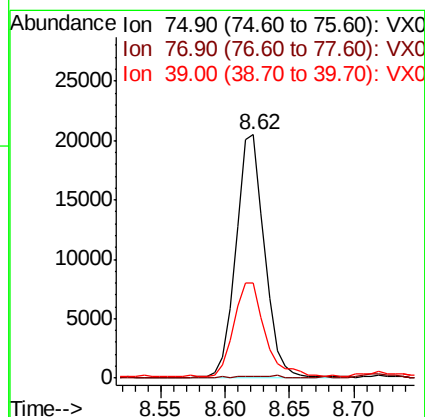
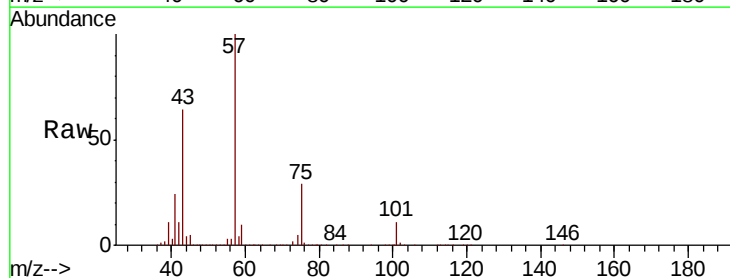
Tgt Ion: 75 Resp: 31766

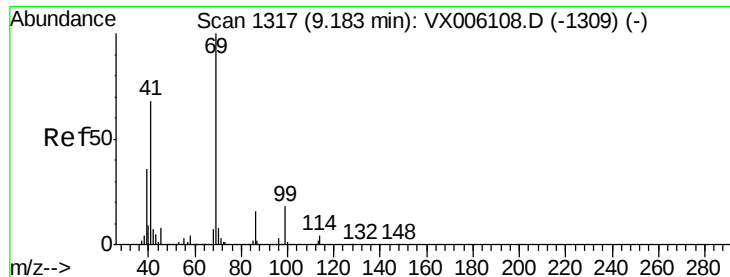
Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

39 38.4 40.3 60.5#





#56

Ethyl methacrylate

Concen: 2.896 ug/l

RT: 9.19 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :
MSVOA_X
ClientSampleId :

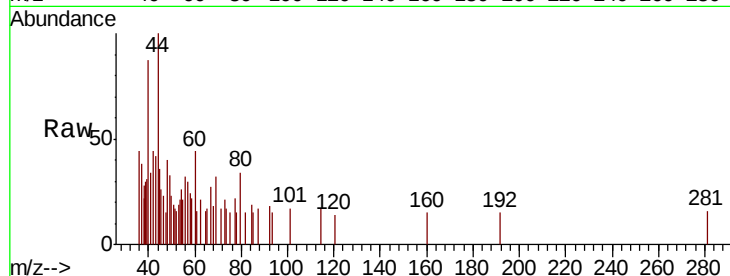
Tot Ion: 69 Resp: 147

Ion Ratio Lower Upper

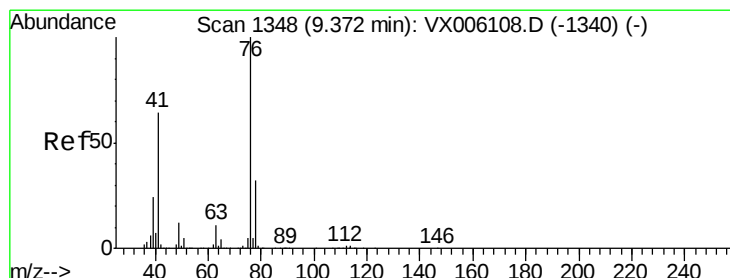
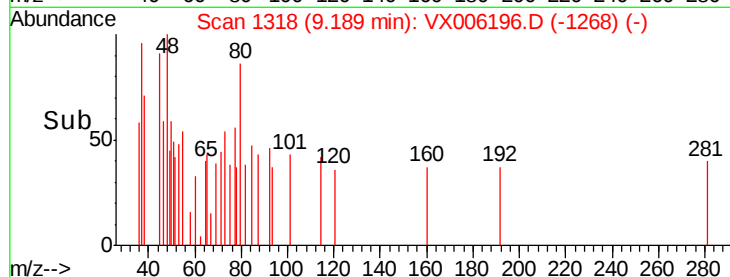
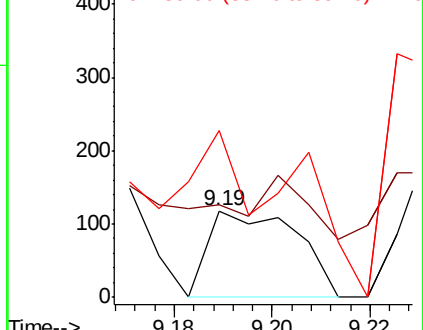
69 100

41 0.0 56.2 84.4#

39 296.6 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.357 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006196.D

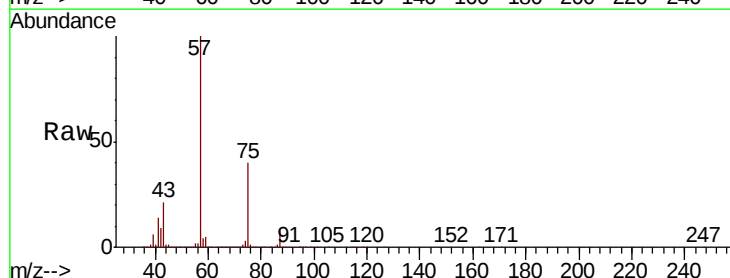
Acq: 27 Nov 2018 01:24

Tgt Ion: 76 Resp: 6415

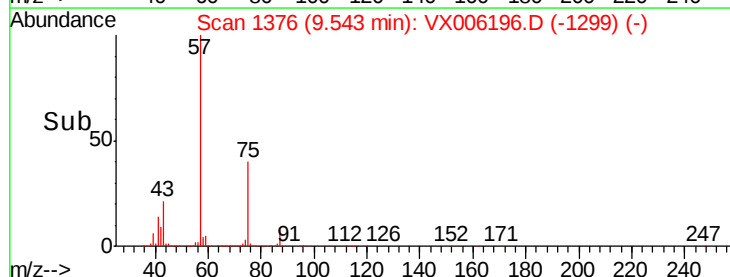
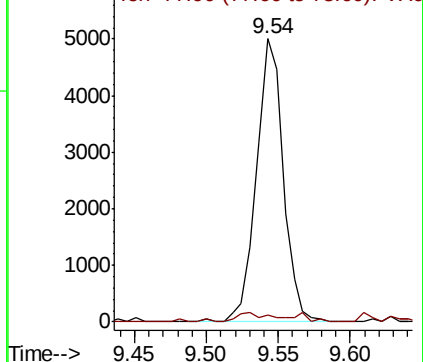
Ion Ratio Lower Upper

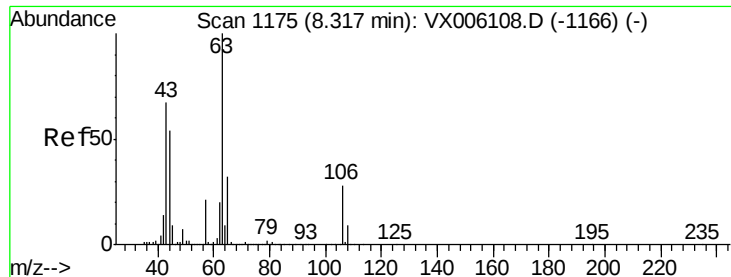
76 100

78 3.6 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

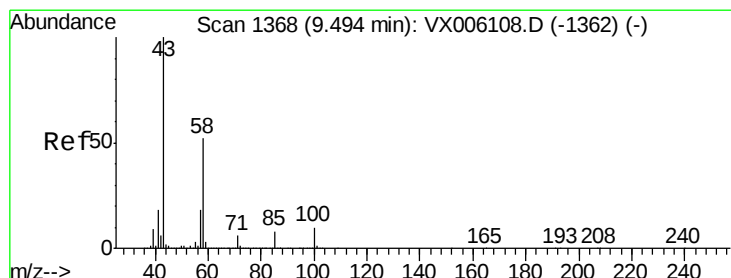
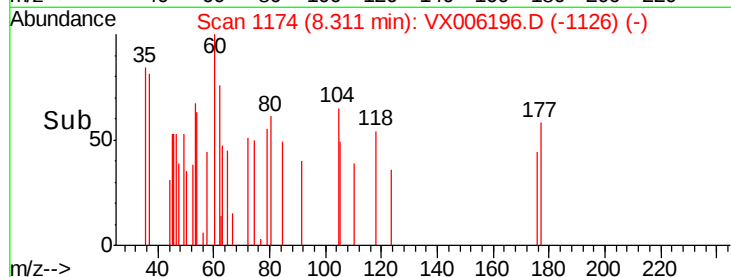
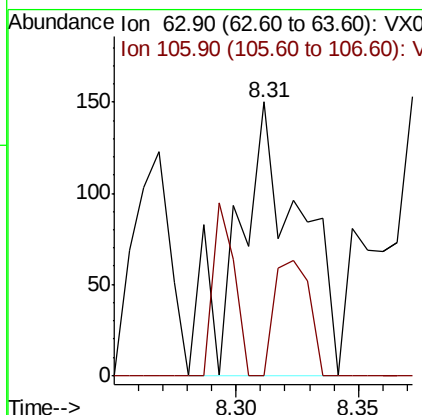
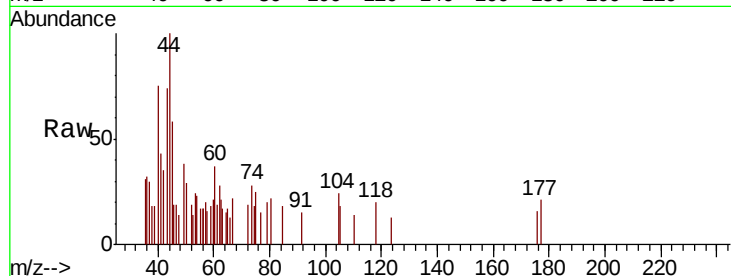




#58
 2-Chloroethyl Vinyl ether
 Concen: 6.827 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VX006196.D
 Acq: 27 Nov 2018 01:24

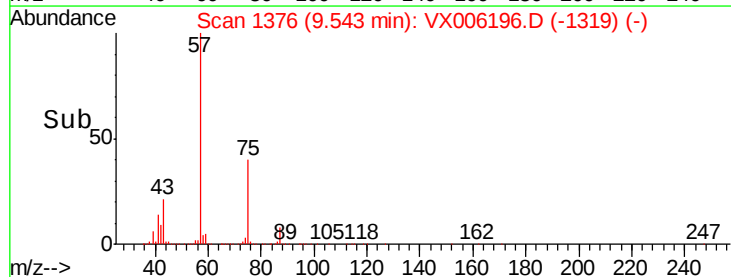
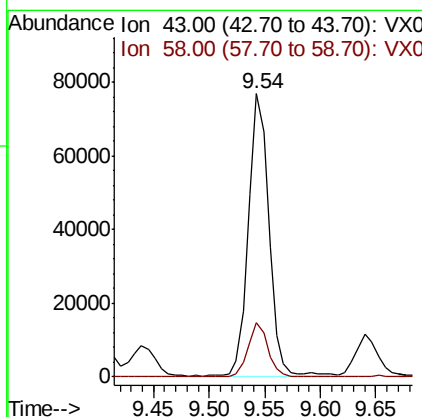
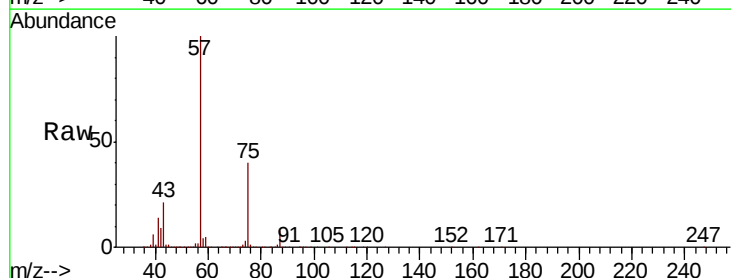
Instrument :
 MSVOA_X
 ClientSampleId :

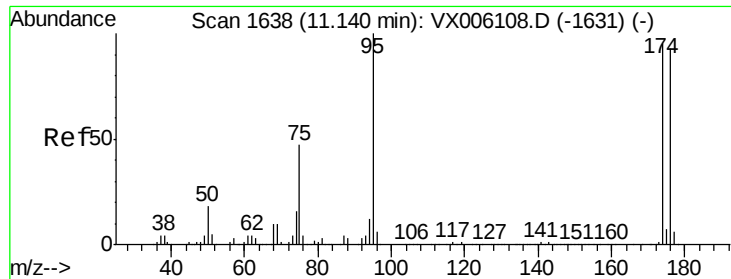
Tot Ion: 63 Resp: 270
 Ion Ratio Lower Upper
 63 100
 106 23.7 21.7 32.5



#59
 2-Hexanone
 Concen: 25.820 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.05 min
 Lab File: VX006196.D
 Acq: 27 Nov 2018 01:24

Tgt Ion: 43 Resp: 99174
 Ion Ratio Lower Upper
 43 100
 58 18.7 26.3 78.9#





#62

4-Bromofluorobenzene

Concen: 45.976 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :

MSVOA_X

ClientSampleId :

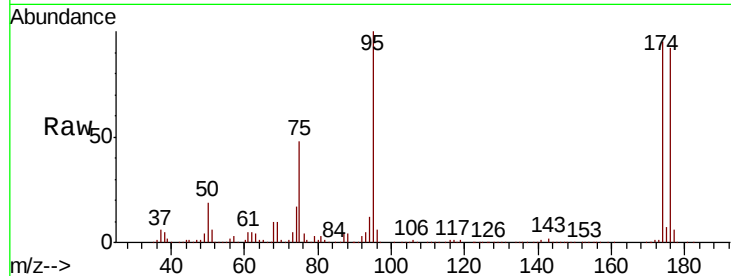
Tot Ion: 95 Resp: 168685

Ion Ratio Lower Upper

95 100

174 93.8 0.0 184.4

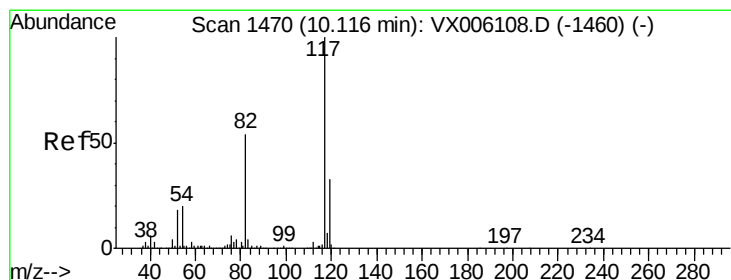
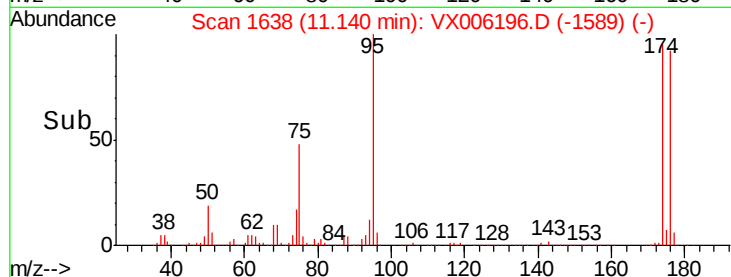
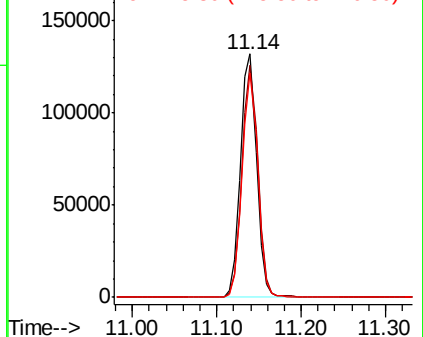
176 89.7 0.0 179.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

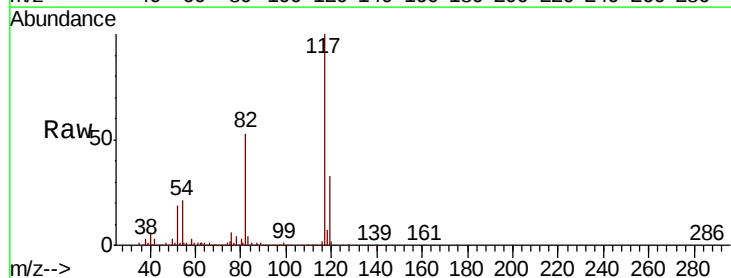
Tgt Ion: 117 Resp: 397117

Ion Ratio Lower Upper

117 100

82 53.5 43.0 64.4

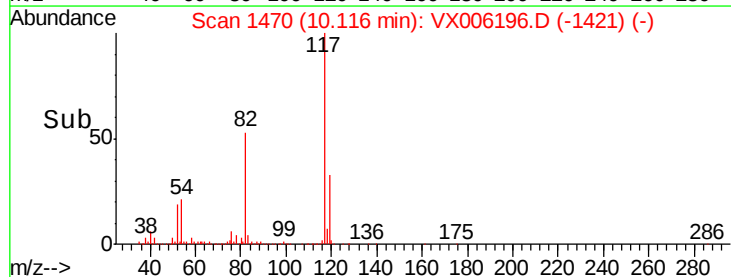
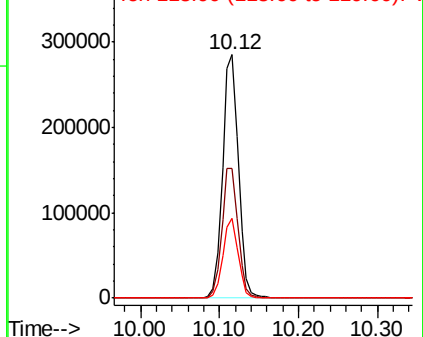
119 32.5 26.1 39.1

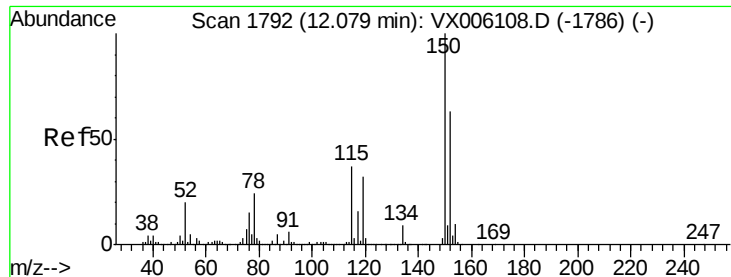


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :

MSVOA_X

ClientSampleId :

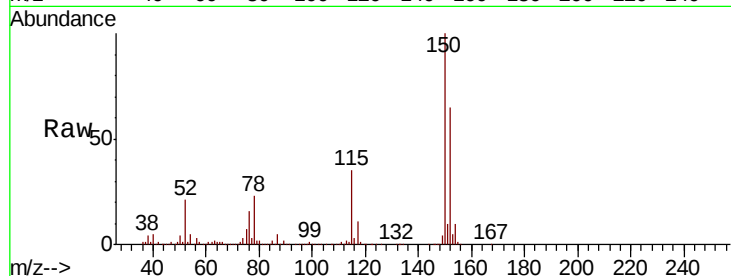
Tot Ion:152 Resp: 181576

Ion Ratio Lower Upper

152 100

115 55.6 39.0 116.9

150 156.6 0.0 346.6

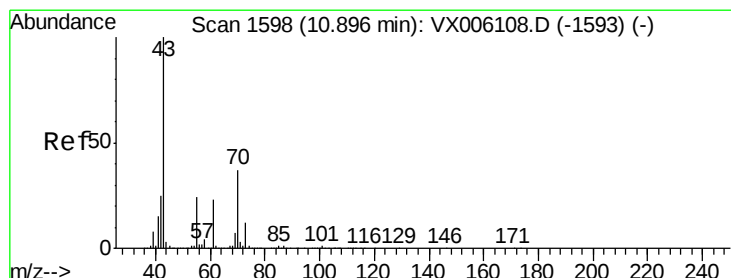
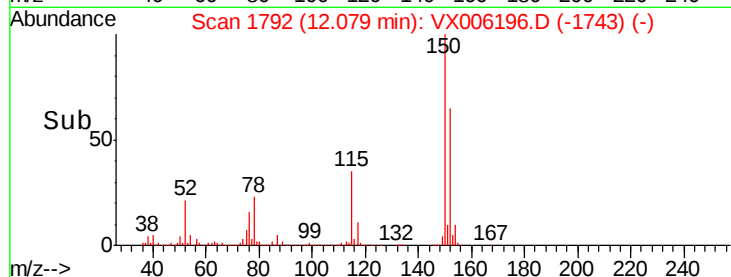
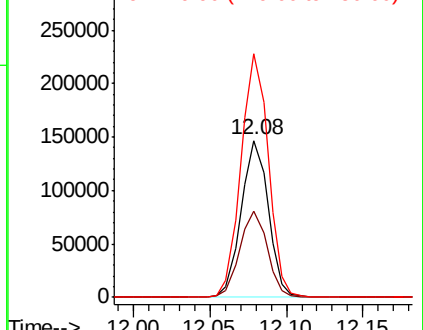


Abundance

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



#74

N-ethyl acetate

Concen: 2.224 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.02 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Tgt Ion: 43 Resp: 187

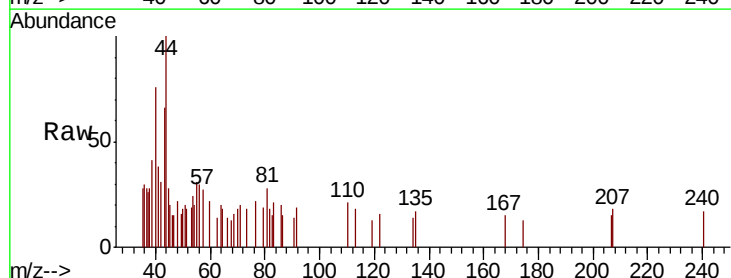
Ion Ratio Lower Upper

43 100

70 74.3 31.8 47.6#

55 161.5 19.5 29.3#

61 0.0 18.6 27.8#



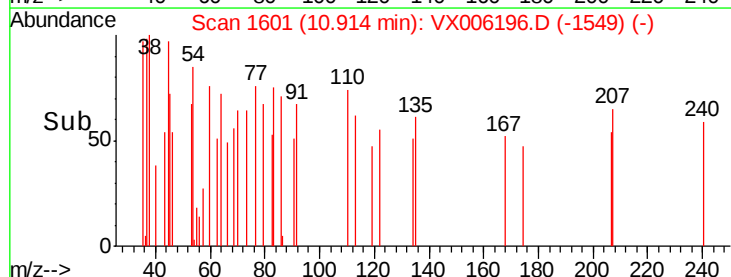
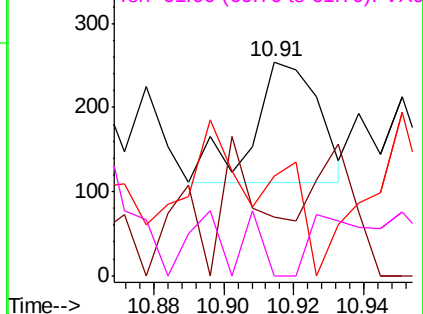
Abundance

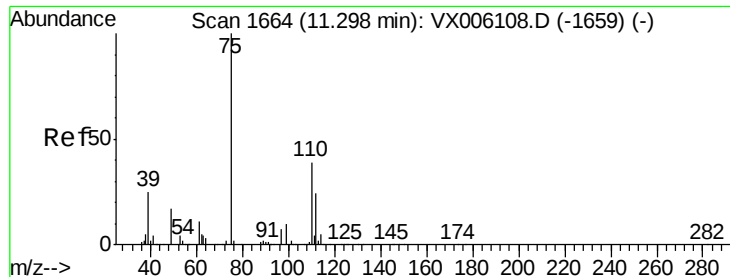
Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.170 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :

MSVOA_X

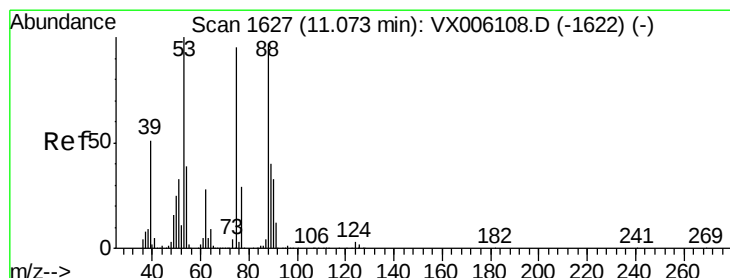
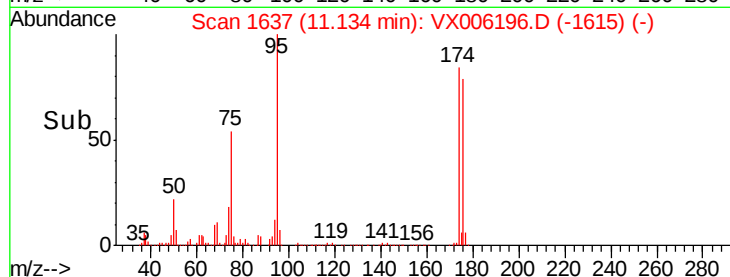
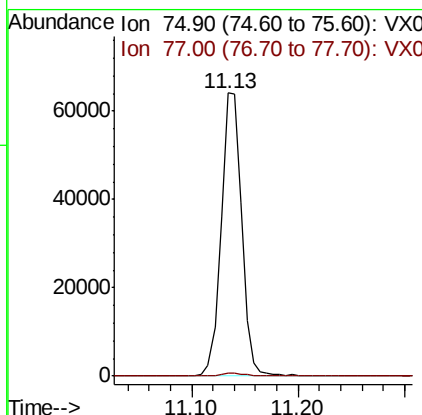
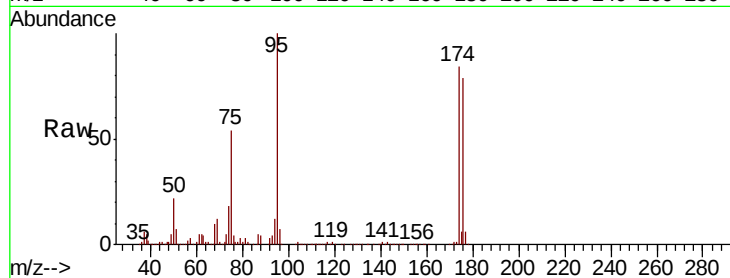
ClientSampleId :

Tot Ion: 75 Resp: 86615

Ion Ratio Lower Upper

75 100

77 1.5 19.6 58.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.366 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

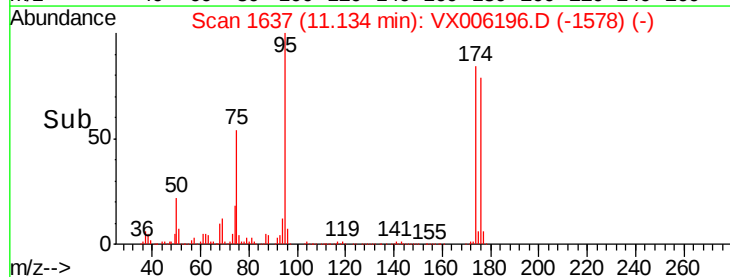
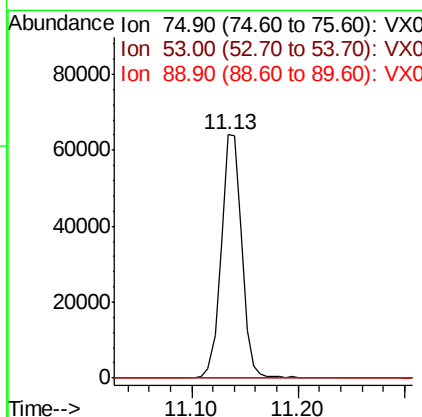
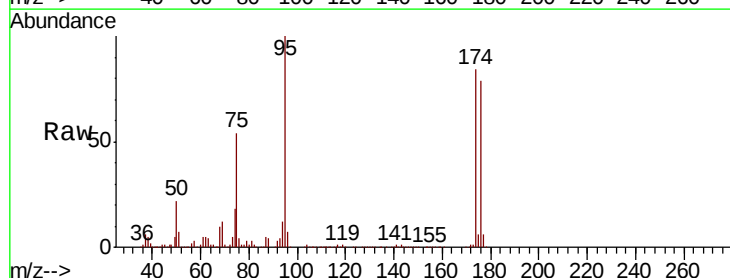
Tgt Ion: 75 Resp: 86615

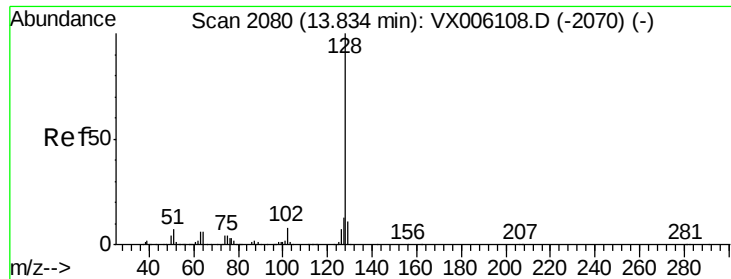
Ion Ratio Lower Upper

75 100

53 0.0 85.3 127.9#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 2.522 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006196.D

Acq: 27 Nov 2018 01:24

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:128 Resp: 30314

Ion Ratio Lower Upper

128 100

127 14.2 10.6 15.8

129 11.0 8.8 13.2

