

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060319\
 Data File : VX010041.D
 Acq On : 03 Jun 2019 17:11
 Operator : JC/SP
 Sample : K2641-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

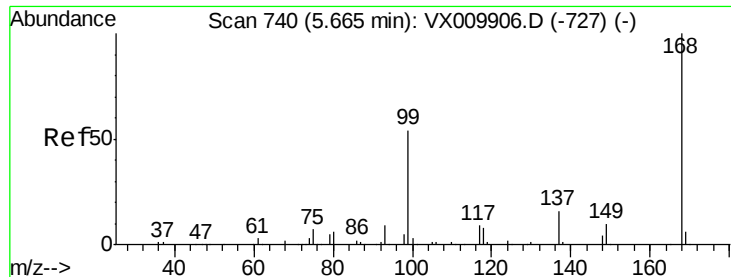
Quant Time: Jun 04 03:41:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	177942	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	289155	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	259735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113617	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117952	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
35) Dibromofluoromethane	5.50	113	88635	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
50) Toluene-d8	8.71	98	367363	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	11.13	95	123953	46.75	ug/l	0.00
Spiked Amount			Recovery	=	93.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	520	0.321	ug/l	96
11) Tert butyl alcohol	3.03	59	259	0.419	ug/l #	73
13) Acrolein	2.28	56	230	21.577	ug/l #	78
16) Acetone	2.45	43	13264	9.133	ug/l	99
17) Carbon Disulfide	2.57	76	621	0.498	ug/l #	76
18) Methyl Acetate	2.78	43	3802	1.125	ug/l	94
20) Methylene Chloride	2.86	84	82177	36.950	ug/l	97
25) 2-Butanone	4.68	43	1845	0.815	ug/l	94
29) Tetrahydrofuran	5.15	42	826	0.569	ug/l	98
30) Chloroform	5.22	83	1071	0.294	ug/l	93
36) 1,1-Dichloropropene	5.66	75	13665	4.658	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16737	6.602	ug/l #	15
43) Isopropyl Acetate	6.45	43	9970	1.512	ug/l	95
48) Methyl methacrylate	7.68	41	6142	1.881	ug/l #	20
49) 1,4-Dioxane	7.69	88	23	0.379	ug/l #	18
51) 4-Methyl-2-Pentanone	8.61	43	83369	19.430	ug/l #	52
54) cis-1,3-Dichloropropene	8.62	75	34950	9.538	ug/l #	57
57) 1,3-Dichloropropane	9.54	76	5100	1.335	ug/l #	43
59) 2-Hexanone	9.44	43	14528	4.398	ug/l #	27
76) 1,2,3-Trichloropropane	11.13	75	62882	23.144	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.51	105	2309	0.327	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	62882	57.263	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1575	0.220	ug/l	93
95) Naphthalene	13.83	128	62014	7.436	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: VX010041.D

Acq: 03 Jun 2019 17:11

Instrument :

MSVOA_X

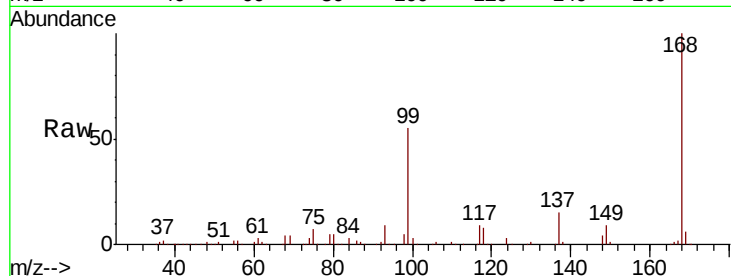
ClientSampleId :

Tot Ion:168 Resp: 177942

Ion Ratio Lower Upper

168 100

99 55.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

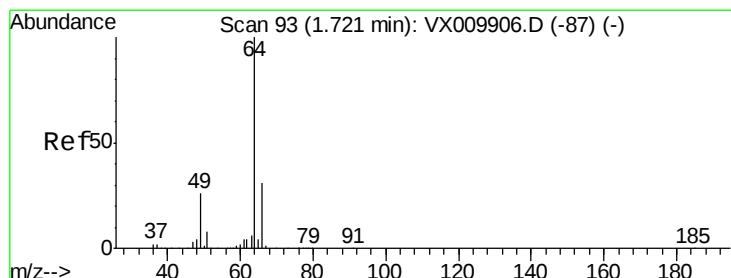
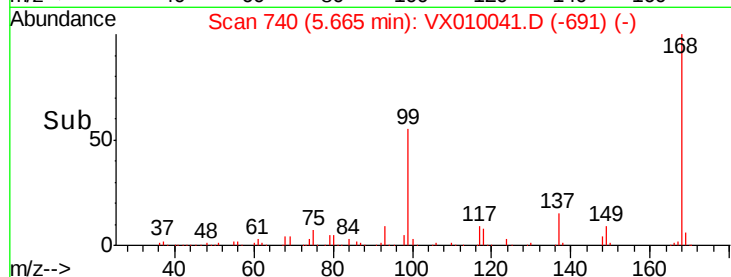
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.321 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010041.D

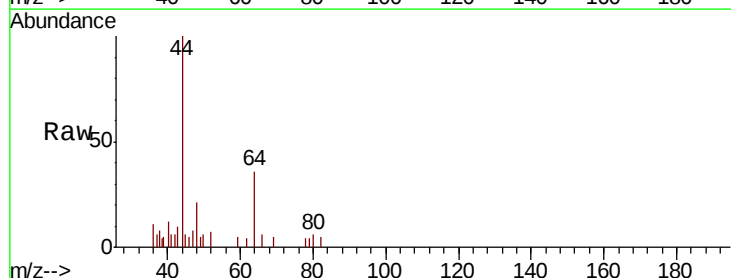
Acq: 03 Jun 2019 17:11

Tgt Ion: 64 Resp: 520

Ion Ratio Lower Upper

64 100

66 29.2 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

600

500

400

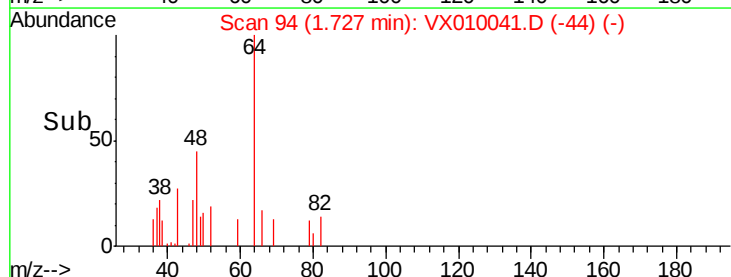
300

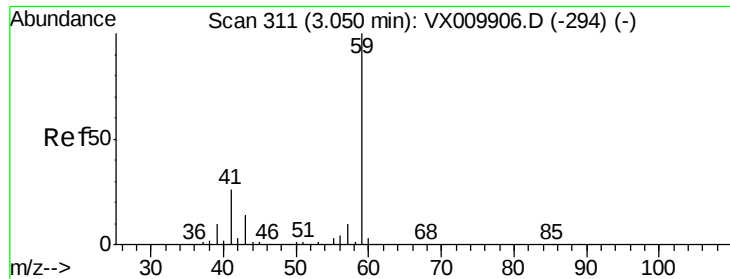
200

100

0

Time--> 1.65 1.70 1.75

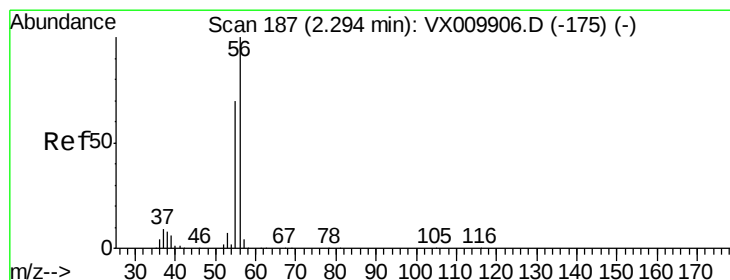
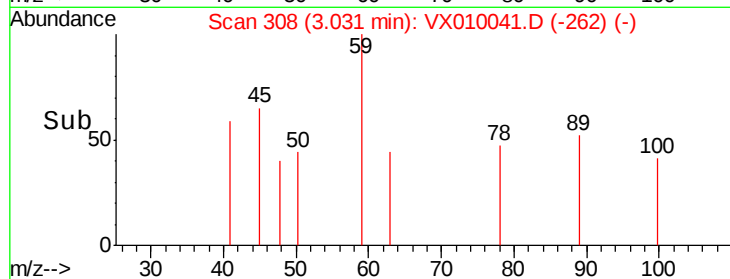
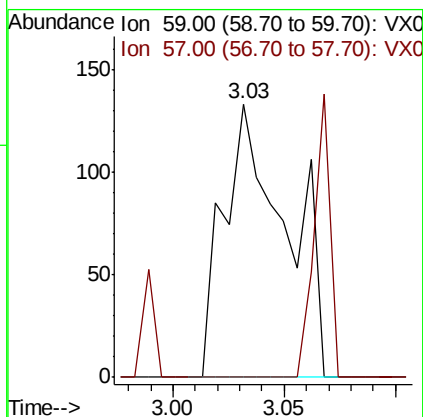
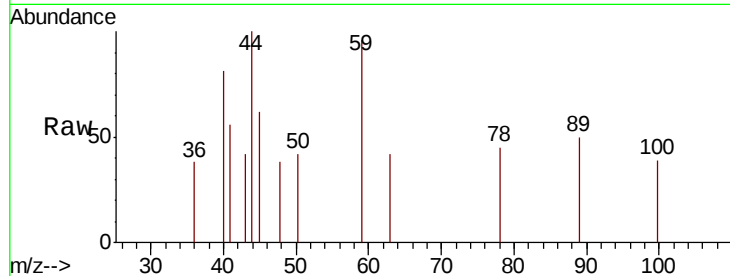




#11
Tert butyl alcohol
Concen: 0.419 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

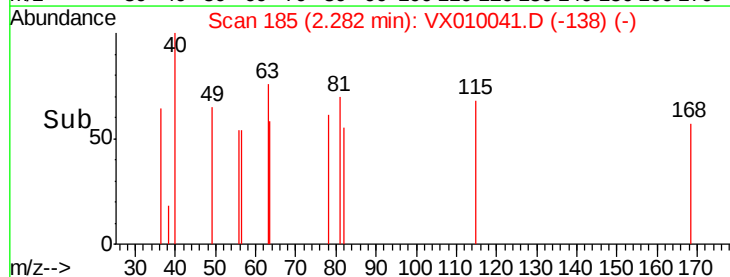
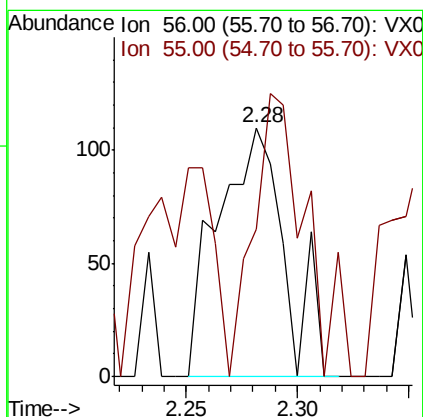
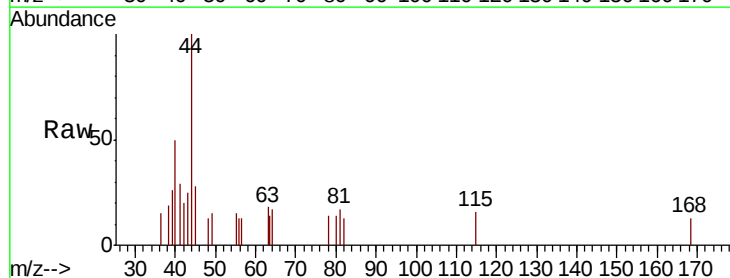
Instrument :
MSVOA_X
ClientSampled :

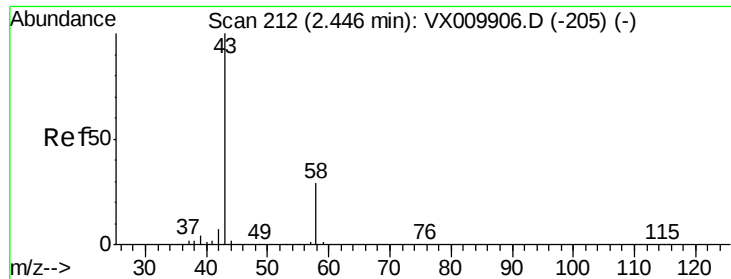
Tot Ion: 59 Resp: 259
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 21.577 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

Tgt Ion: 56 Resp: 230
Ion Ratio Lower Upper
56 100
55 89.1 57.0 85.4#





#16

Acetone

Concen: 9.133 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

Instrument :

MSVOA_X

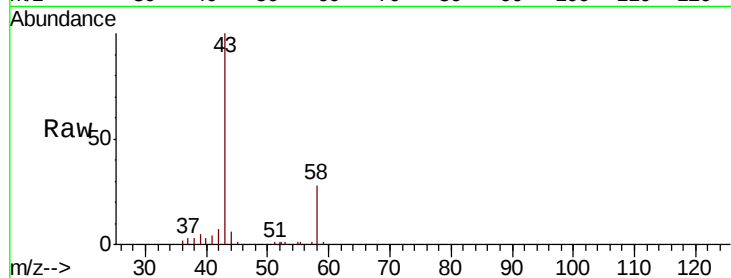
ClientSampled :

Tot Ion: 43 Resp: 13264

Ion Ratio Lower Upper

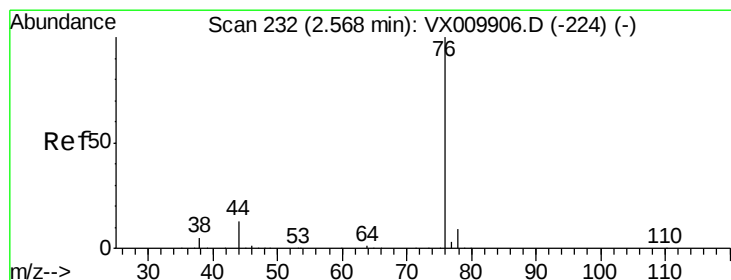
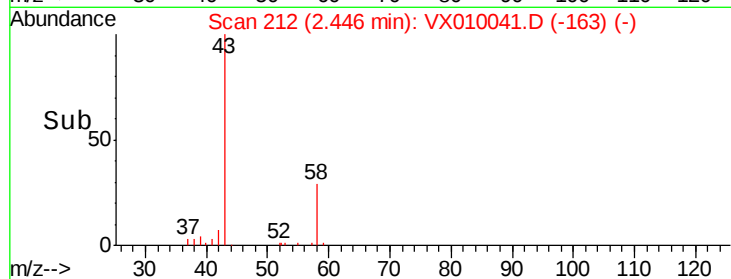
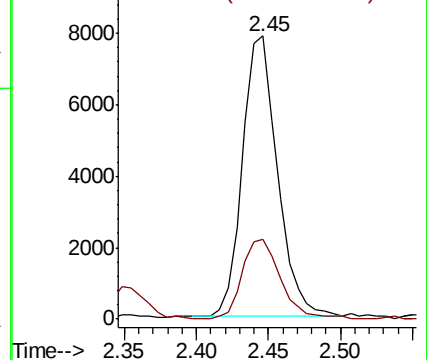
43 100

58 28.6 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.498 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010041.D

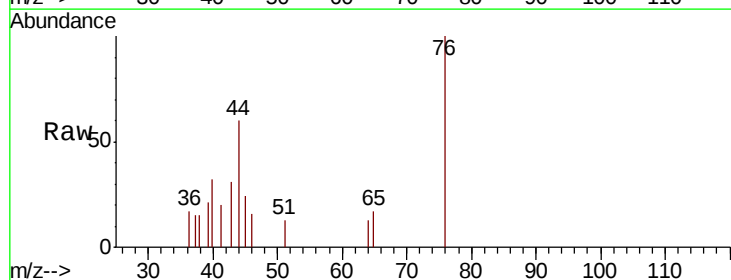
Acq: 03 Jun 2019 17:11

Tgt Ion: 76 Resp: 621

Ion Ratio Lower Upper

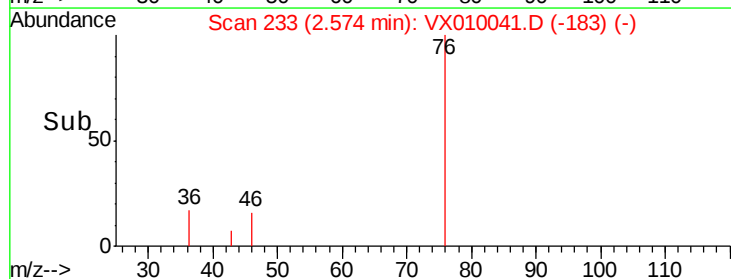
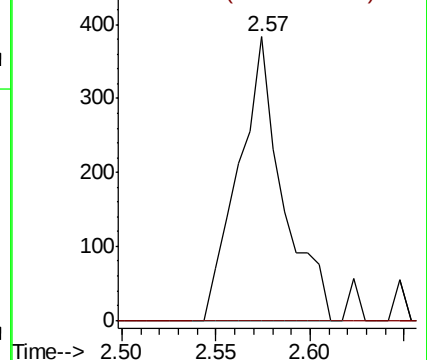
76 100

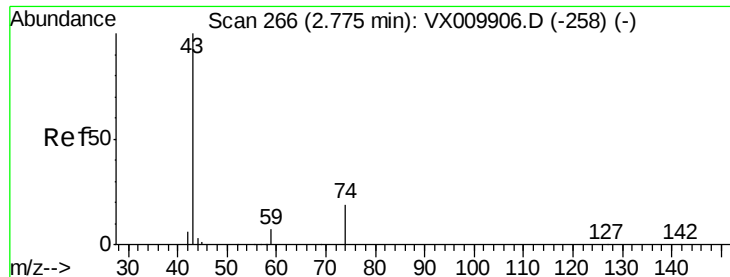
78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

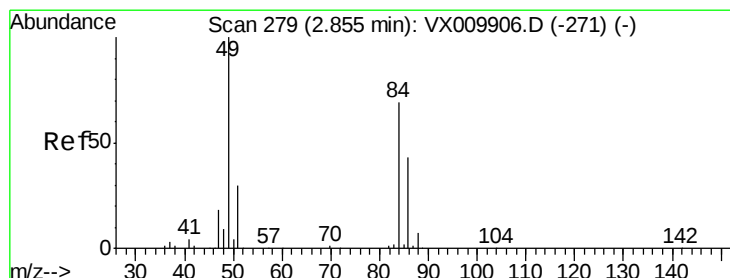
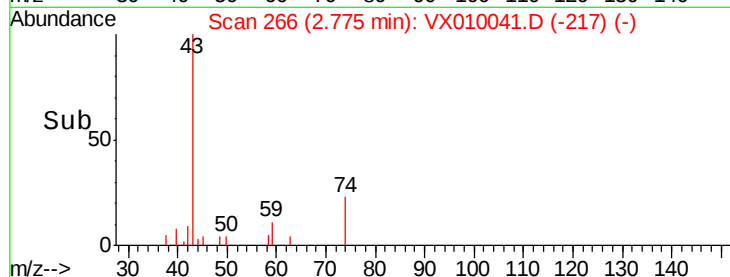
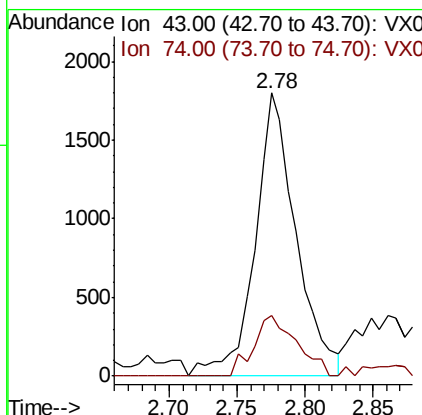
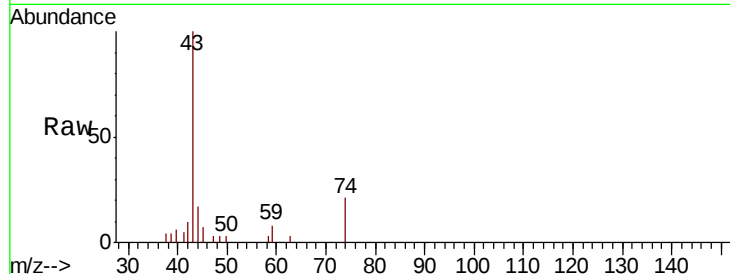




#18
Methyl Acetate
Concen: 1.125 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

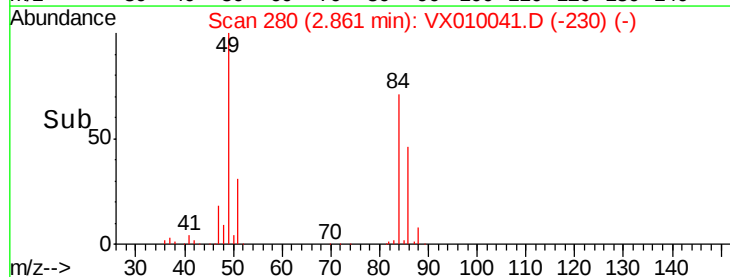
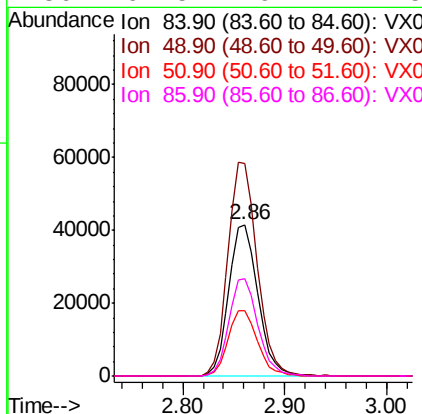
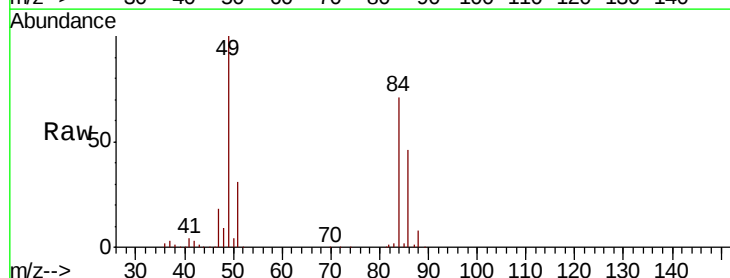
Instrument :
MSVOA_X
ClientSampleId :

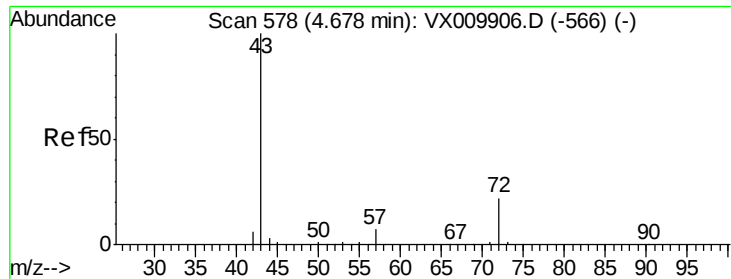
Tot Ion: 43 Resp: 3802
Ion Ratio Lower Upper
43 100
74 22.5 15.8 23.6



#20
Methylene Chloride
Concen: 36.950 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

Tgt Ion: 84 Resp: 82177
Ion Ratio Lower Upper
84 100
49 140.5 115.8 173.6
51 43.1 34.4 51.6
86 64.5 49.7 74.5





#25

2-Butanone

Concen: 0.815 ug/l

RT: 4.68 min Scan# 578

Delta R.T. -0.00 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

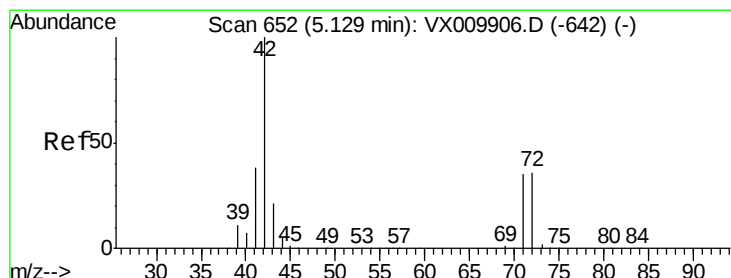
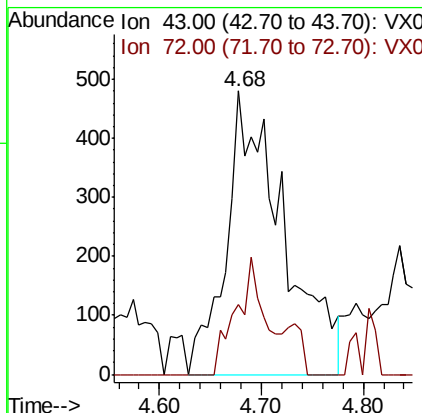
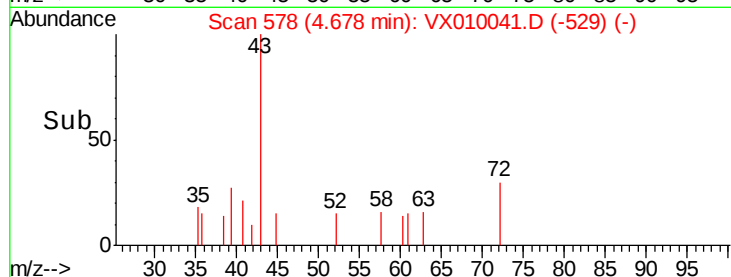
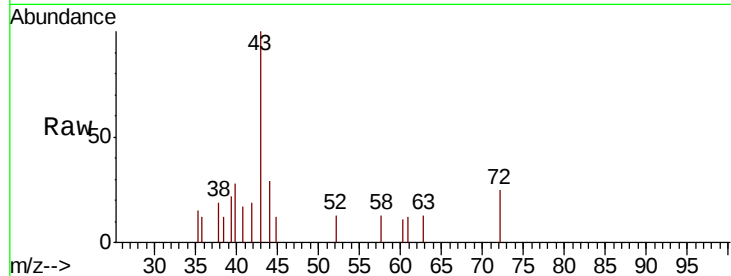
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1845

Ion Ratio Lower Upper

43 100

72 24.6 17.5 26.3



#29

Tetrahydrofuran

Concen: 0.569 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

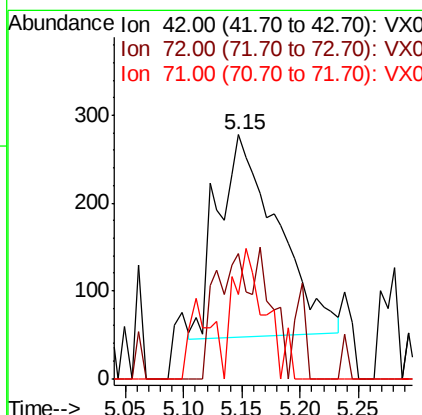
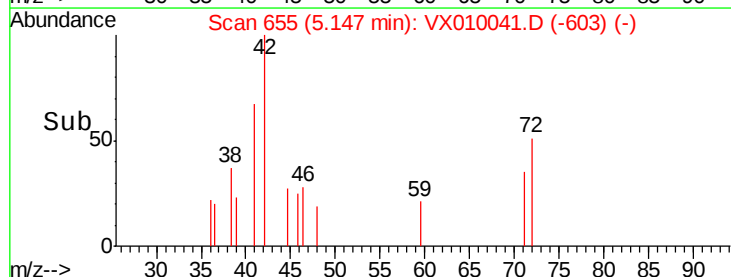
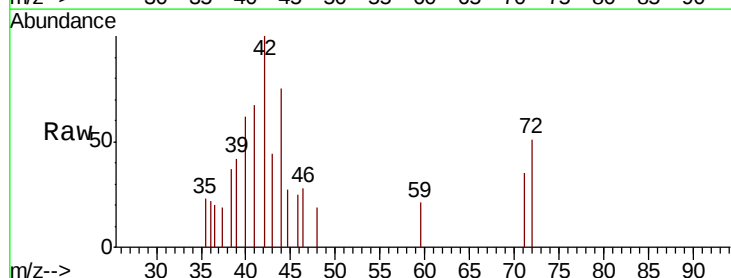
Tgt Ion: 42 Resp: 826

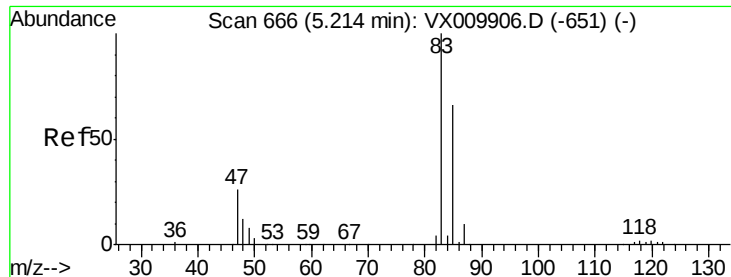
Ion Ratio Lower Upper

42 100

72 35.0 29.2 43.8

71 33.8 27.6 41.4

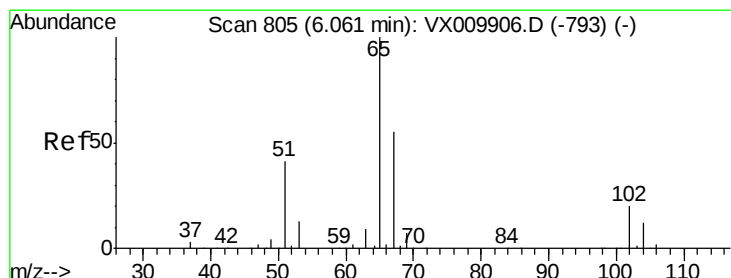
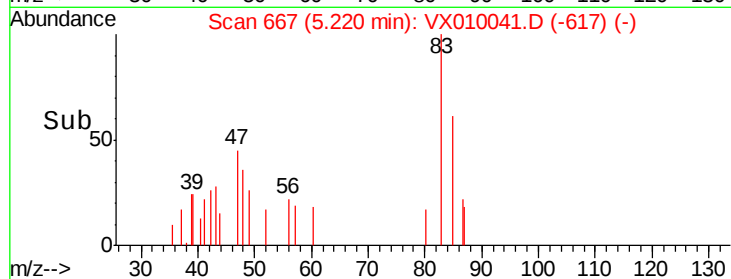
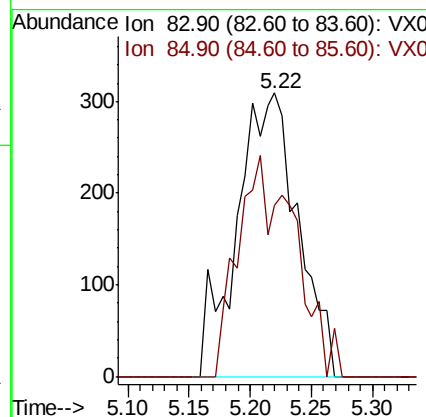
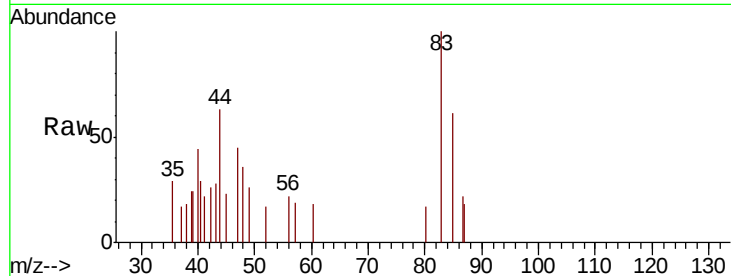




#30
Chloroform
Concen: 0.294 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

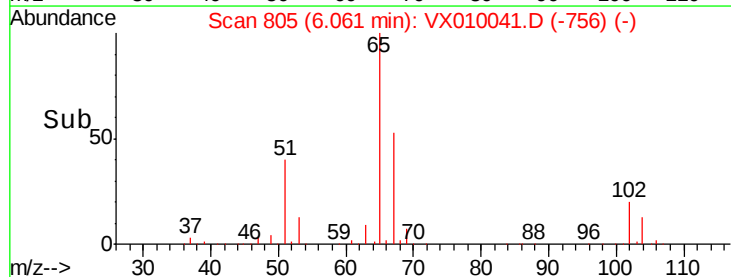
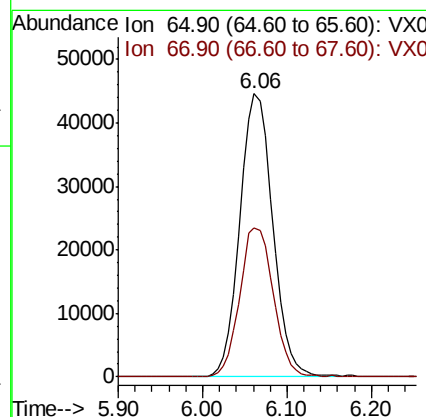
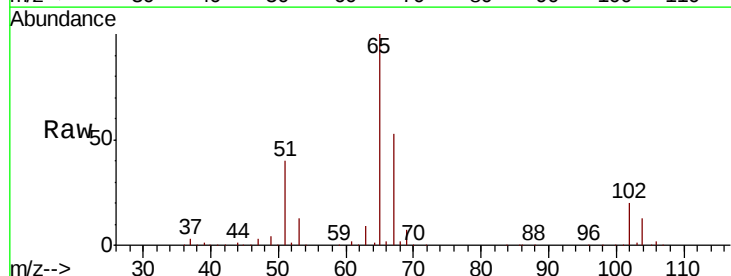
Instrument :
MSVOA_X
ClientSampleId :

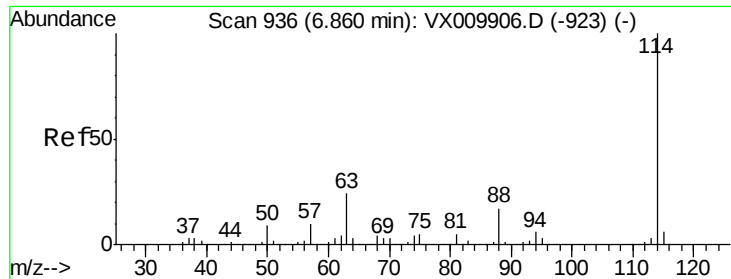
Tot Ion: 83 Resp: 1071
Ion Ratio Lower Upper
83 100
85 60.5 52.6 78.8



#33
1,2-Dichloroethane-d4
Concen: 46.926 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

Tgt Ion: 65 Resp: 117952
Ion Ratio Lower Upper
65 100
67 53.9 0.0 108.4

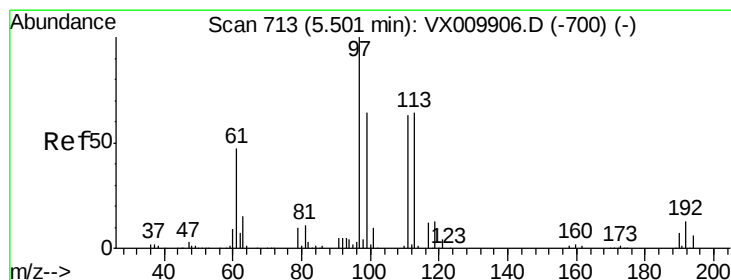
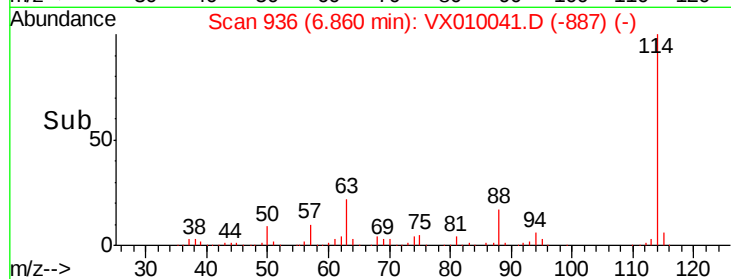
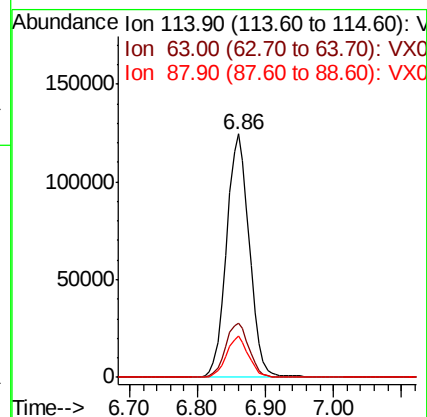
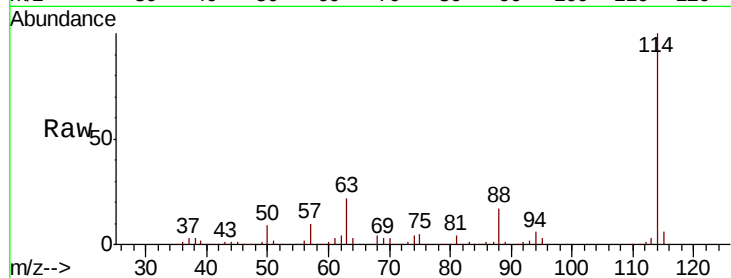




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

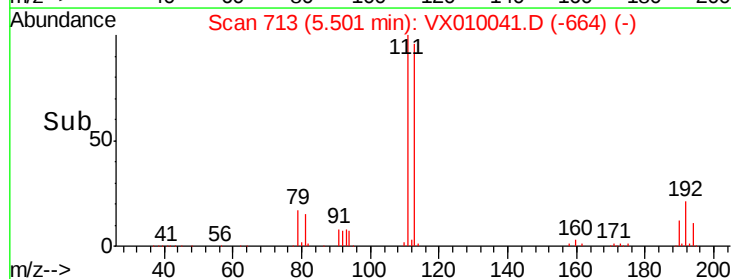
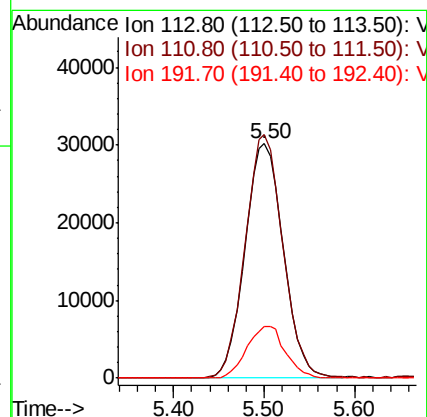
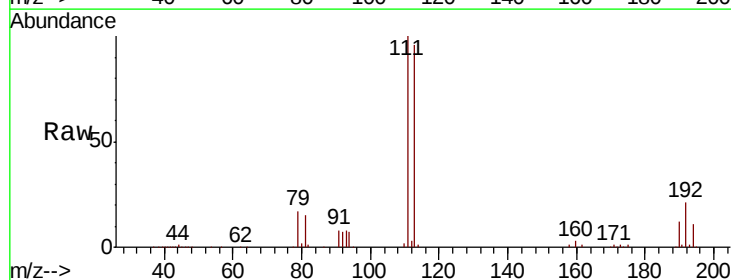
Instrument :
 MSVOA_X
 ClientSampleId :

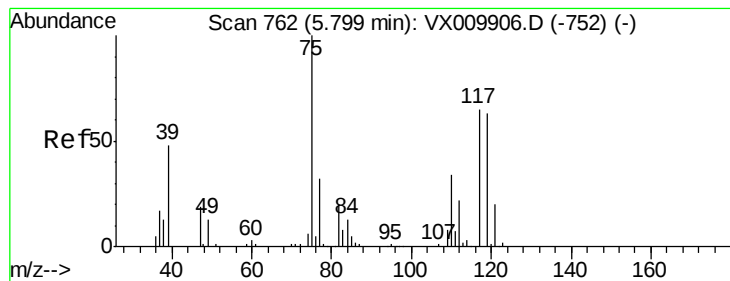
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	47.4
88	16.9	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 48.756 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.2	123.2
192	22.1	17.1	25.7





#36

1,1-Dichloropropene

Concen: 4.658 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

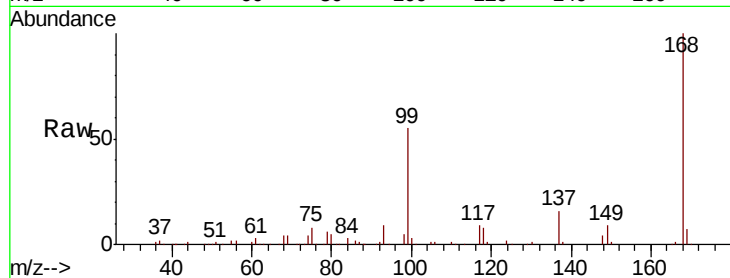
Tot Ion: 75 Resp: 13665

Ion Ratio Lower Upper

75 100

110 8.8 16.7 50.1#

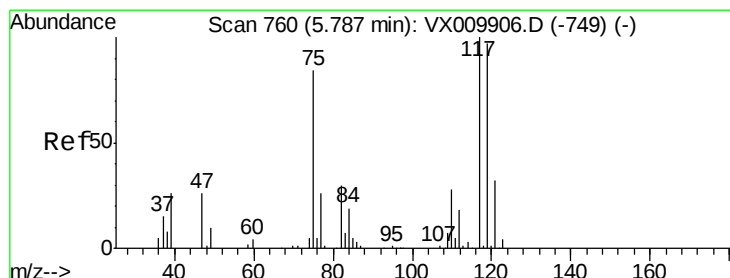
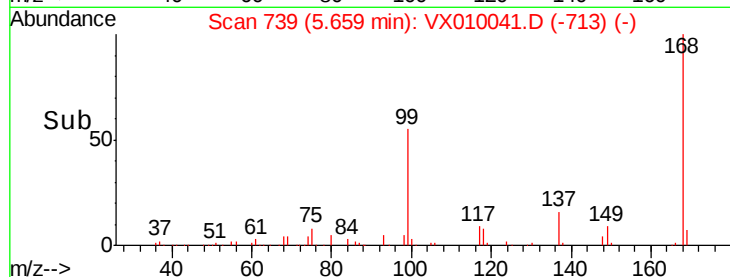
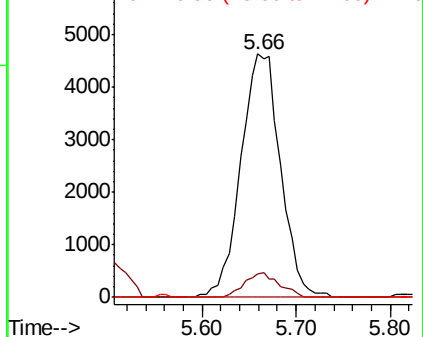
77 0.0 25.0 37.4#



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: 6.602 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

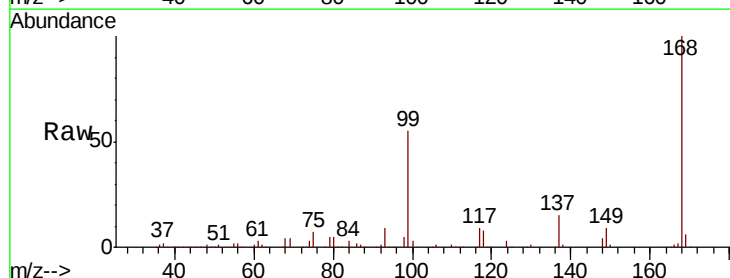
Tgt Ion: 117 Resp: 16737

Ion Ratio Lower Upper

117 100

119 4.9 77.3 115.9#

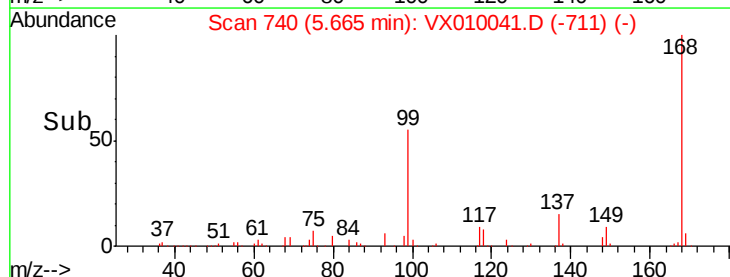
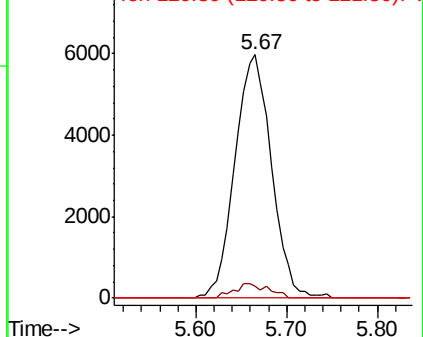
121 0.0 25.4 38.0#

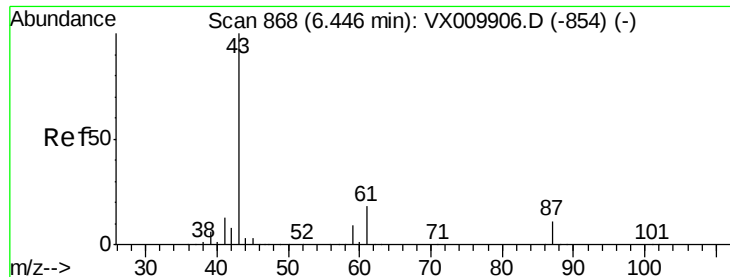


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.512 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

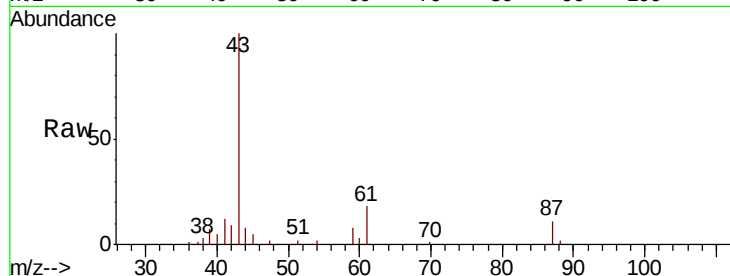
Tot Ion: 43 Resp: 9970

Ion Ratio Lower Upper

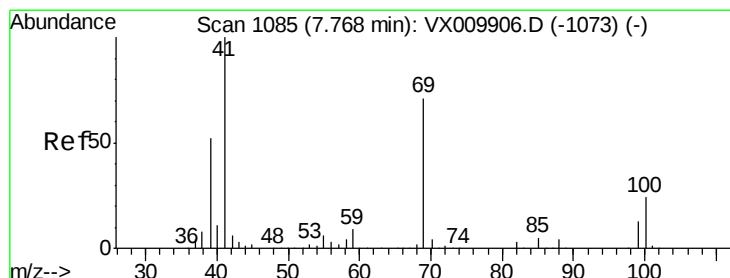
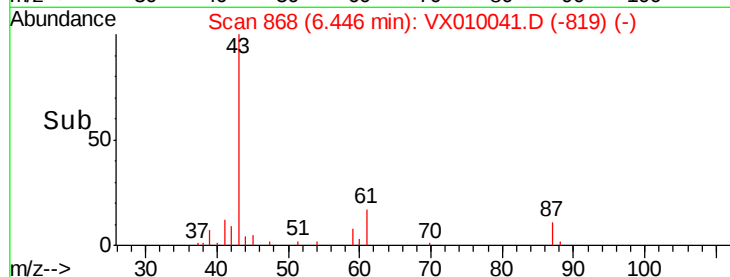
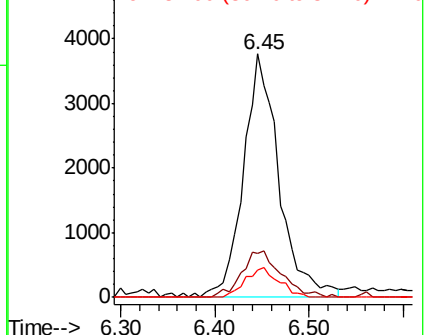
43 100

61 21.1 14.6 21.8

87 11.6 8.7 13.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.881 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

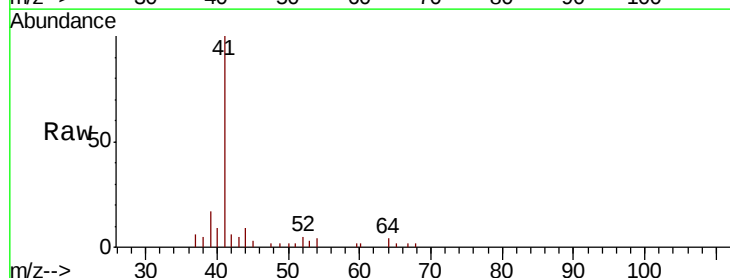
Tgt Ion: 41 Resp: 6142

Ion Ratio Lower Upper

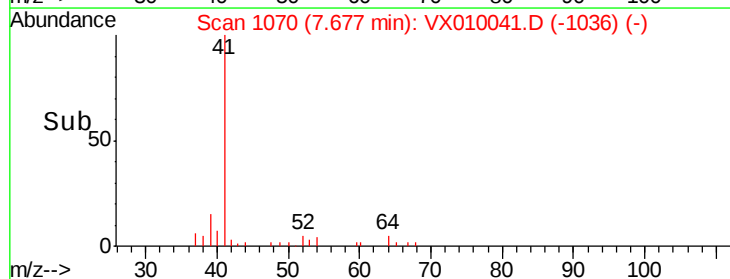
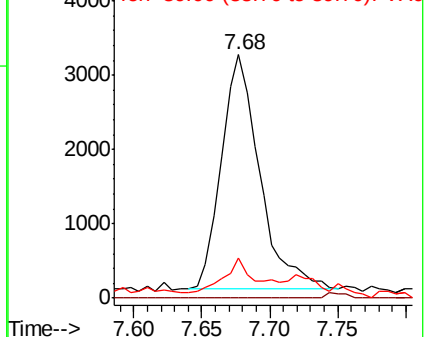
41 100

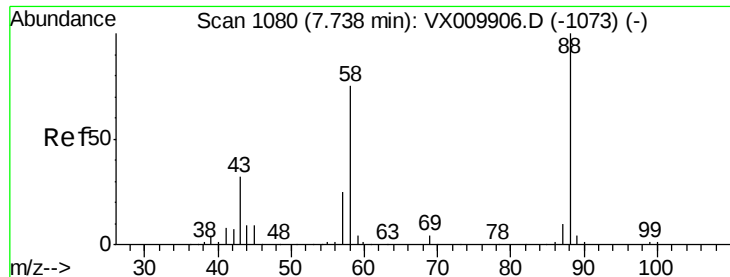
69 0.0 56.4 84.6#

39 0.0 40.6 60.8#



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

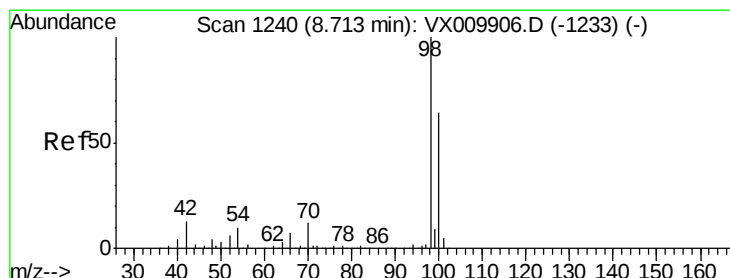
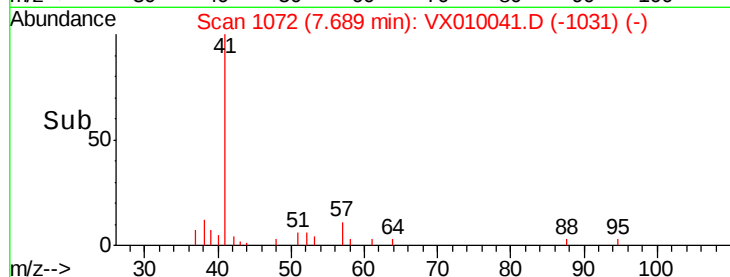
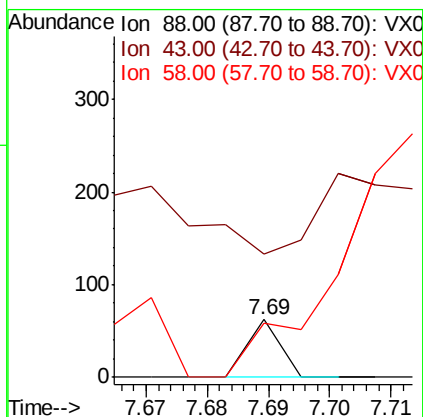
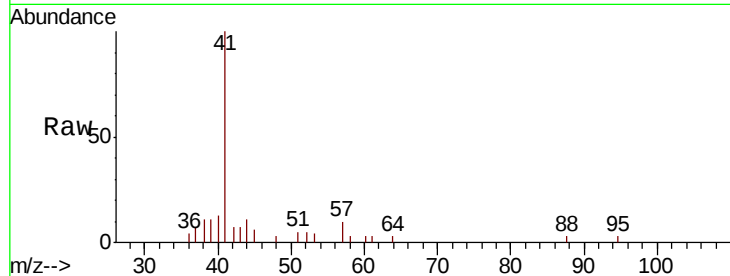




#49
1,4-Dioxane
Concen: 0.379 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.05 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

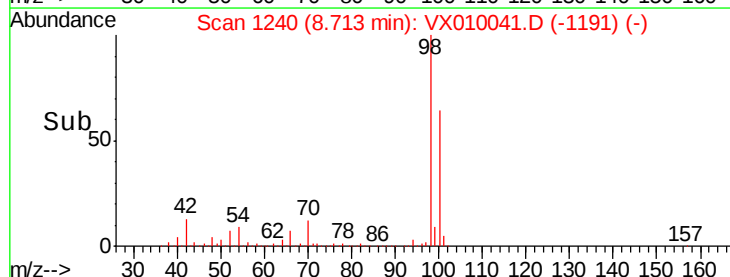
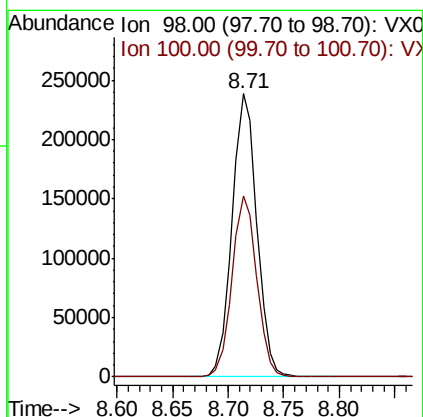
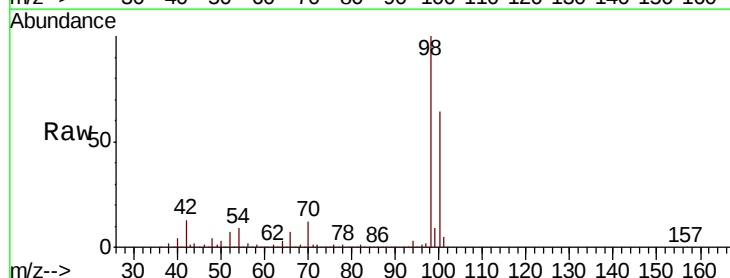
Instrument :
MSVOA_X
ClientSampleId :

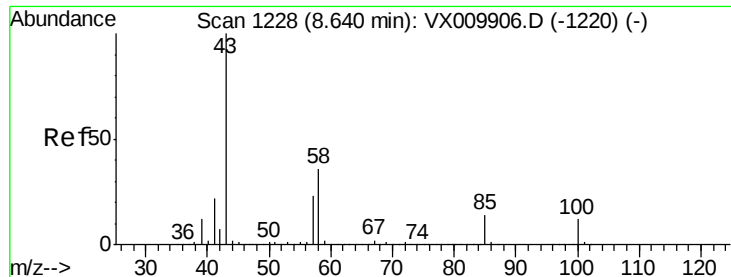
Tot Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 0.0 30.2 45.4#
58 0.0 64.0 96.0#



#50
Toluene-d8
Concen: 49.763 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010041.D
Acq: 03 Jun 2019 17:11

Tgt Ion: 98 Resp: 367363
Ion Ratio Lower Upper
98 100
100 63.9 51.5 77.3

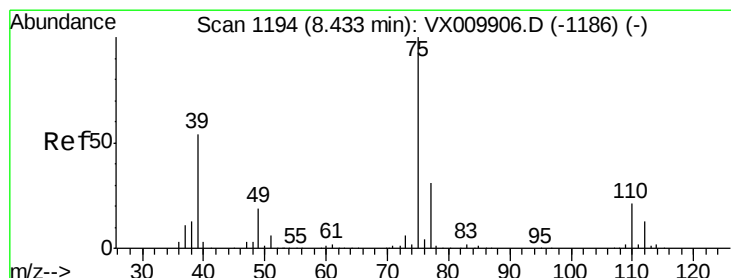
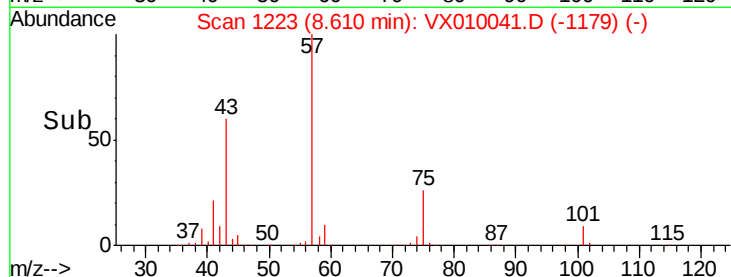
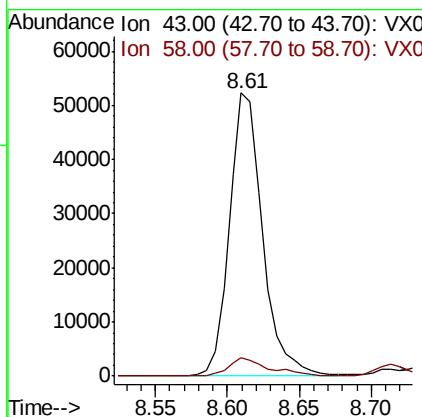
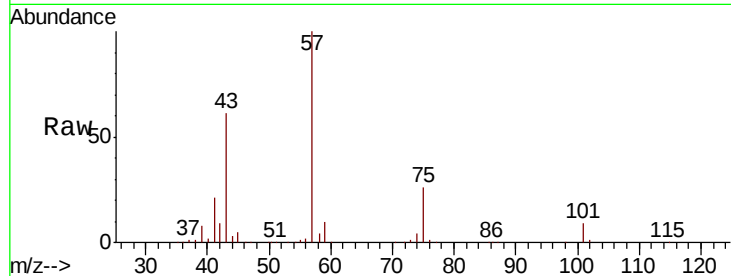




#51
 4-Methyl-2-Pentanone
 Concen: 19.430 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

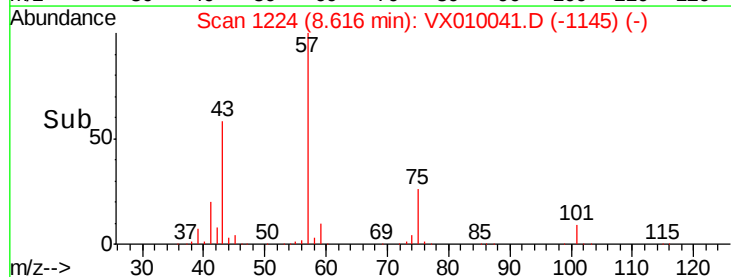
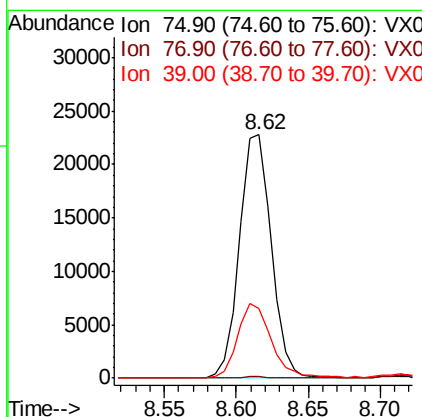
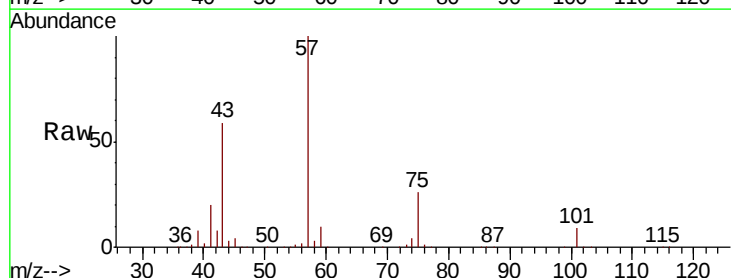
Instrument :
 MSVOA_X
 ClientSampled :

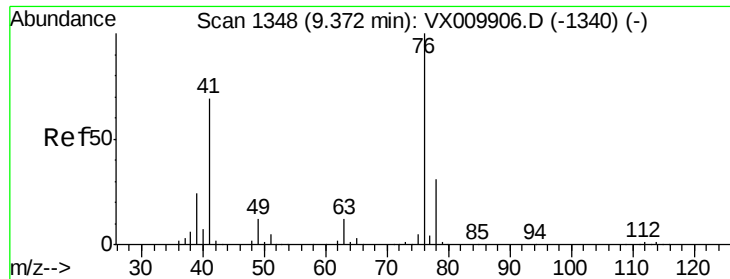
Tot Ion: 43 Resp: 83369
 Ion Ratio Lower Upper
 43 100
 58 7.7 28.8 43.2#



#54
 cis-1,3-Dichloropropene
 Concen: 9.538 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

Tgt Ion: 75 Resp: 34950
 Ion Ratio Lower Upper
 75 100
 77 0.4 24.8 37.2#
 39 28.2 43.4 65.0#

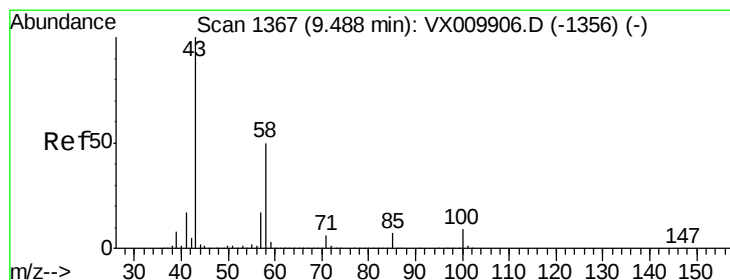
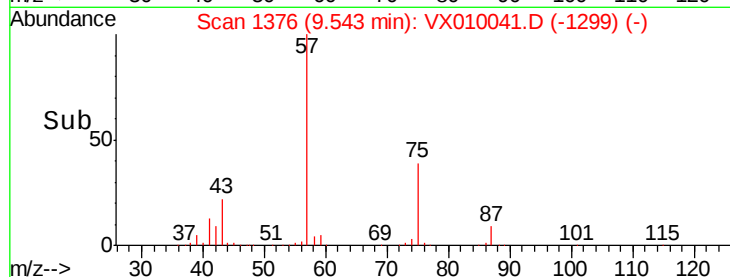
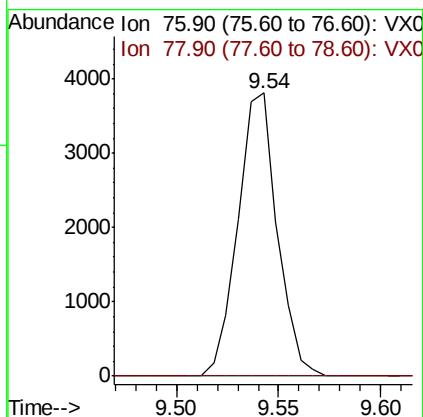
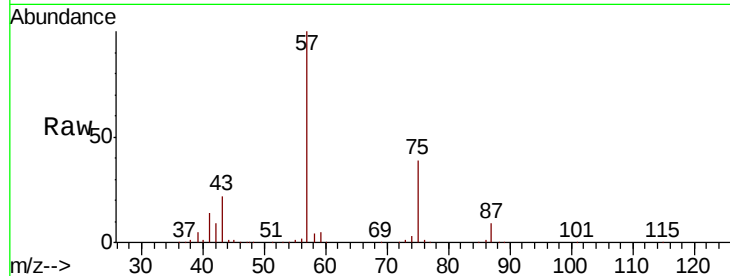




#57
 1,3-Dichloropropane
 Concen: 1.335 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

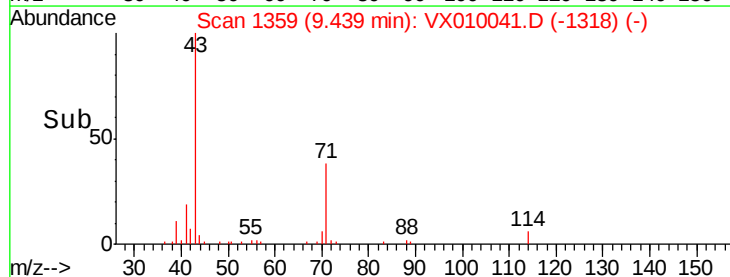
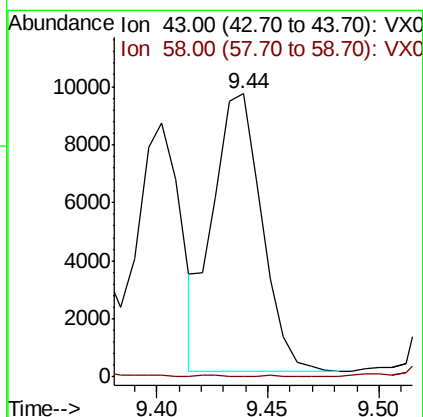
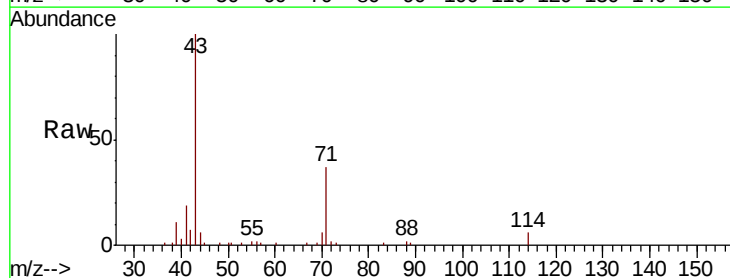
Instrument :
 MSVOA_X
 ClientSampleId :

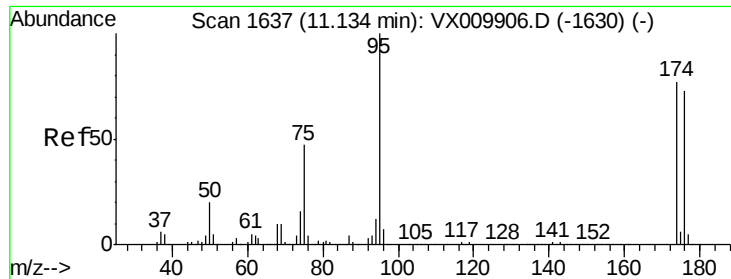
Tot Ion: 76 Resp: 5100
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 4.398 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. -0.05 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

Tgt Ion: 43 Resp: 14528
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.1 75.3#





#62

4-Bromofluorobenzene

Concen: 46.747 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

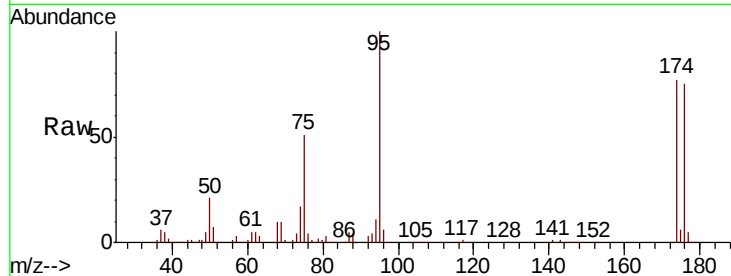
Tot Ion: 95 Resp: 123953

Ion Ratio Lower Upper

95 100

174 82.4 0.0 160.4

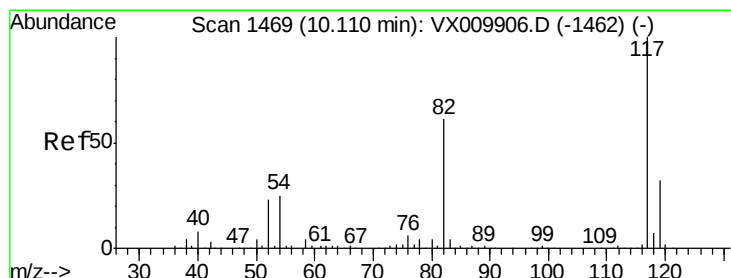
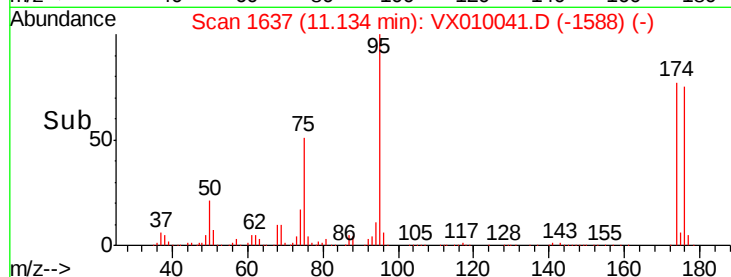
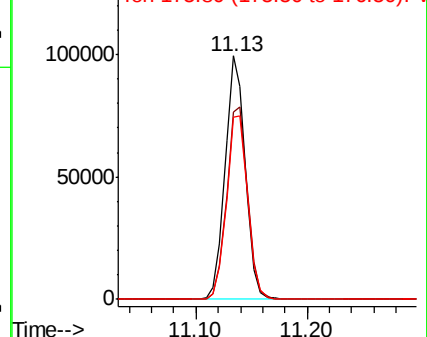
176 79.2 0.0 154.6



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: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

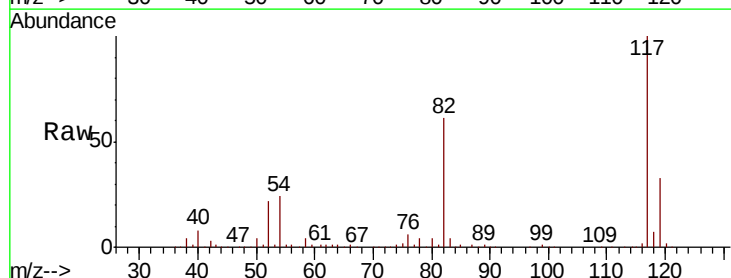
Tgt Ion: 117 Resp: 259735

Ion Ratio Lower Upper

117 100

82 61.2 49.2 73.8

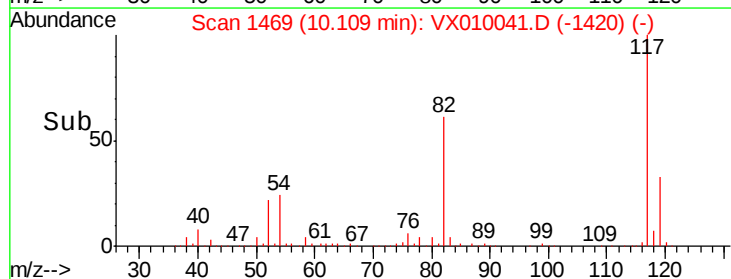
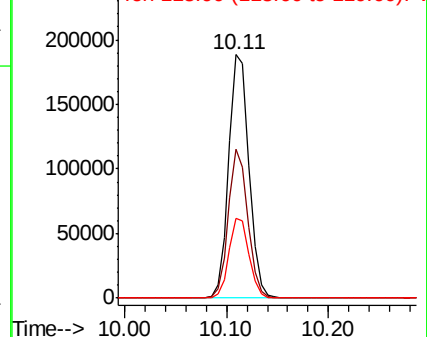
119 32.5 25.2 37.8

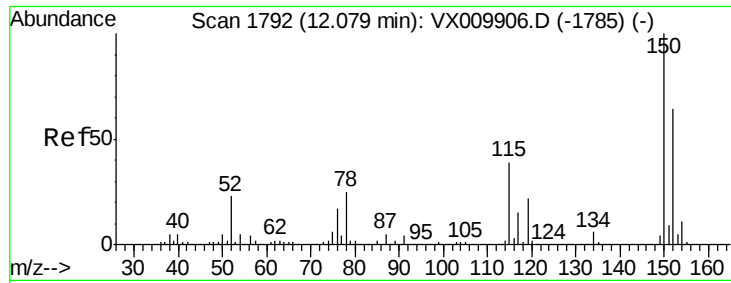


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX010041.D

Acq: 03 Jun 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

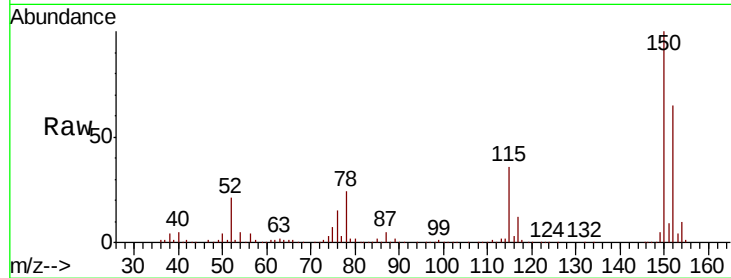
Tot Ion:152 Resp: 113617

Ion Ratio Lower Upper

152 100

115 57.8 41.4 124.2

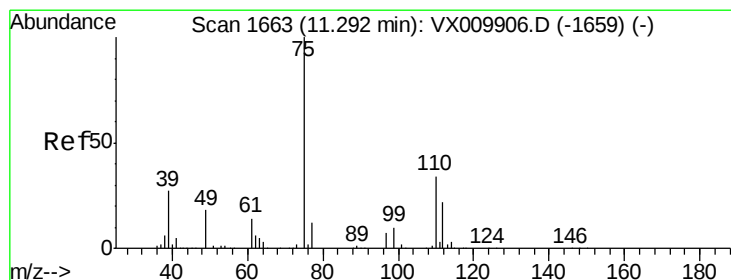
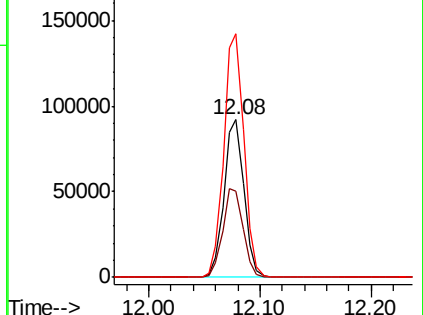
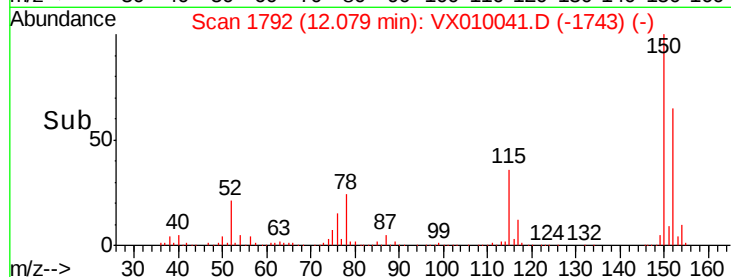
150 156.6 0.0 345.2



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: 23.144 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010041.D

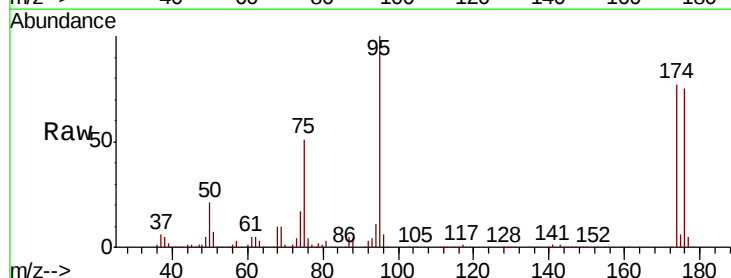
Acq: 03 Jun 2019 17:11

Tgt Ion: 75 Resp: 62882

Ion Ratio Lower Upper

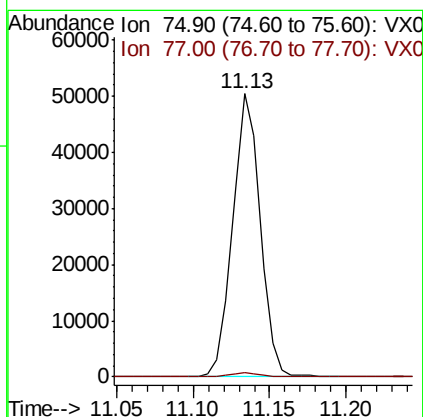
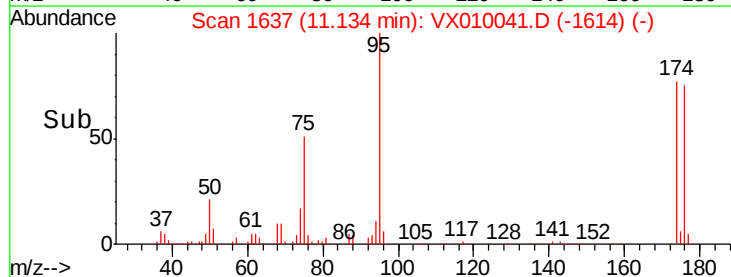
75 100

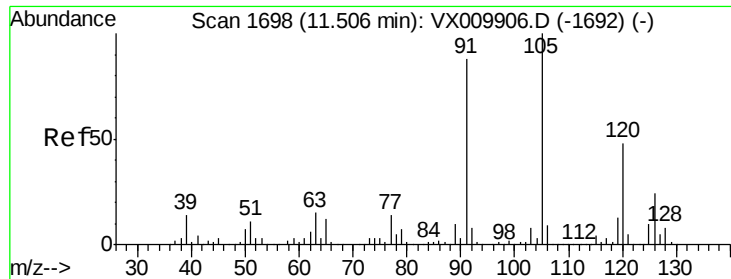
77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

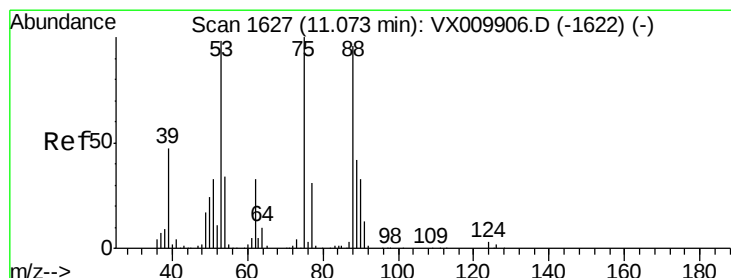
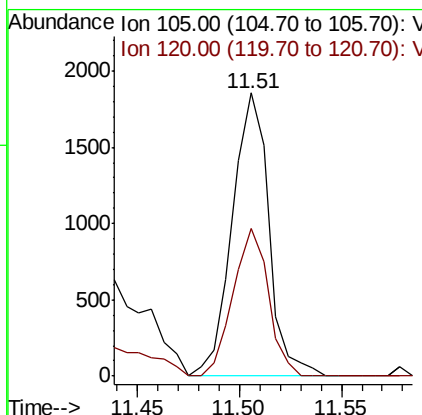
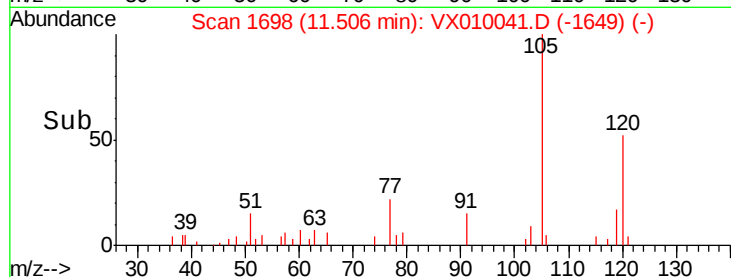
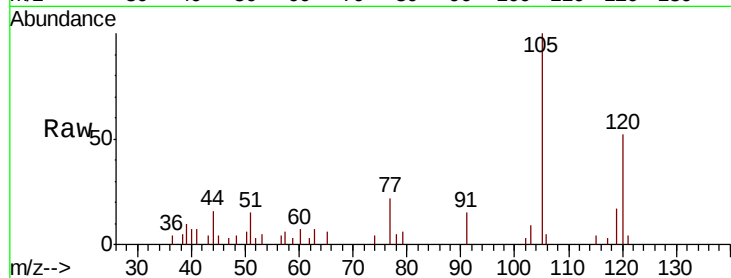




#80
 1,3,5-Trimethylbenzene
 Concen: 0.327 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

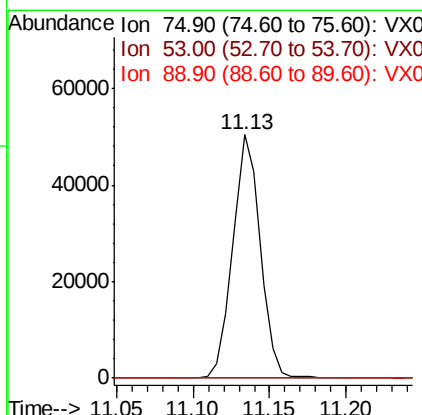
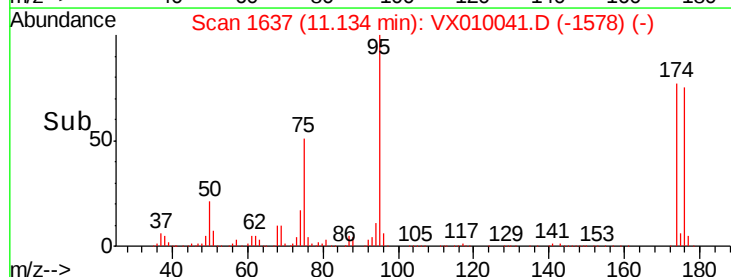
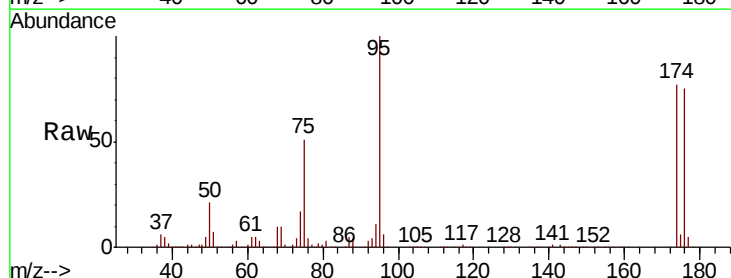
Instrument :
 MSVOA_X
 ClientSampled :

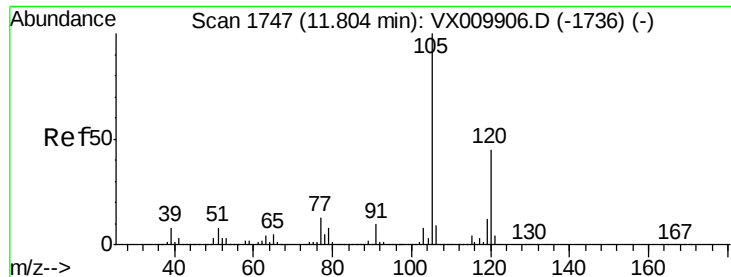
Tot Ion:105 Resp: 2309
 Ion Ratio Lower Upper
 105 100
 120 50.4 24.1 72.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.263 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010041.D
 Acq: 03 Jun 2019 17:11

Tgt Ion: 75 Resp: 62882
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.8 119.6#
 89 0.0 34.2 51.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.220 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

Instrument :

MSVOA_X

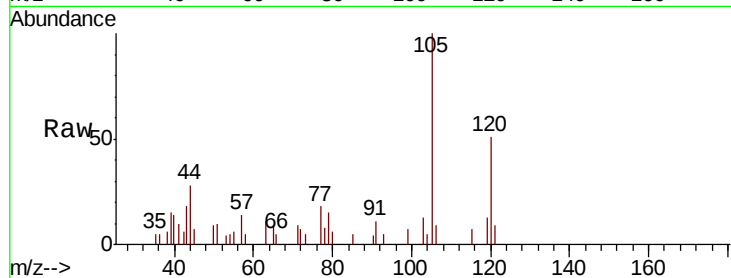
ClientSampleId :

Tot Ion:105 Resp: 1575

Ion Ratio Lower Upper

105 100

120 48.6 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

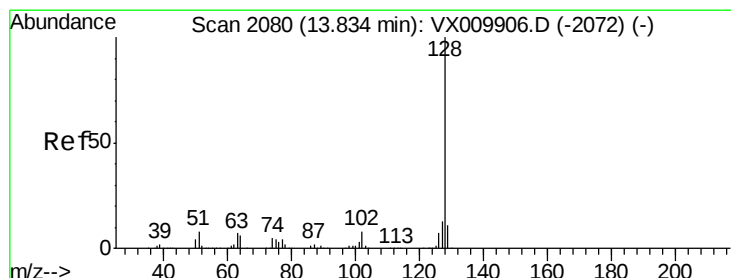
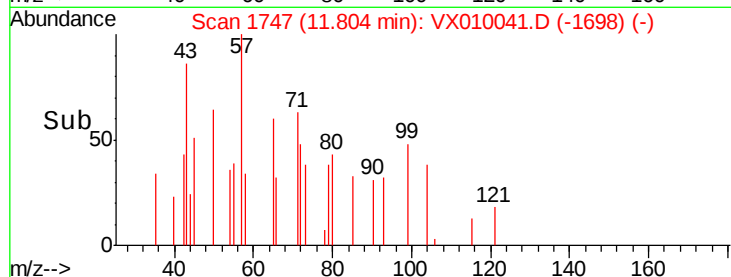
11.80

1000

500

0

Time--> 11.75 11.80 11.85



#95

Naphthalene

Concen: 7.436 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX010041.D

Acq: 03 Jun 2019 17:11

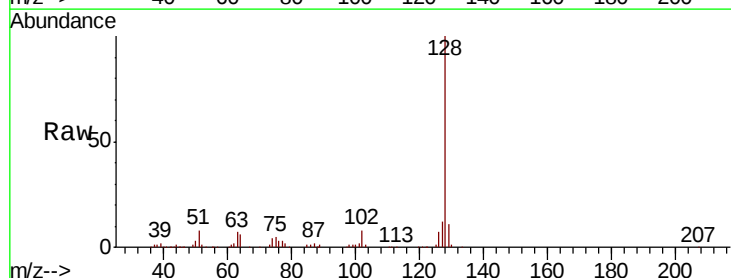
Tgt Ion:128 Resp: 62014

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

60000

40000

20000

0

Time--> 13.80 13.83 13.90

