

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091718\
 Data File : VX004634.D
 Acq On : 17 Sep 2018 22:12
 Operator : JC/MD
 Sample : PB112894ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:57:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	218488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	327162	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	308490	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189616	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	155155	55.07	ug/l	0.00
Spiked Amount 50.000			Recovery =	110.14%		
35) Dibromofluoromethane	5.50	113	140850	47.05	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.10%		
50) Toluene-d8	8.72	98	449116	44.73	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.46%		
62) 4-Bromofluorobenzene	11.14	95	154210	43.03	ug/l	0.00
Spiked Amount 50.000			Recovery =	86.06%		

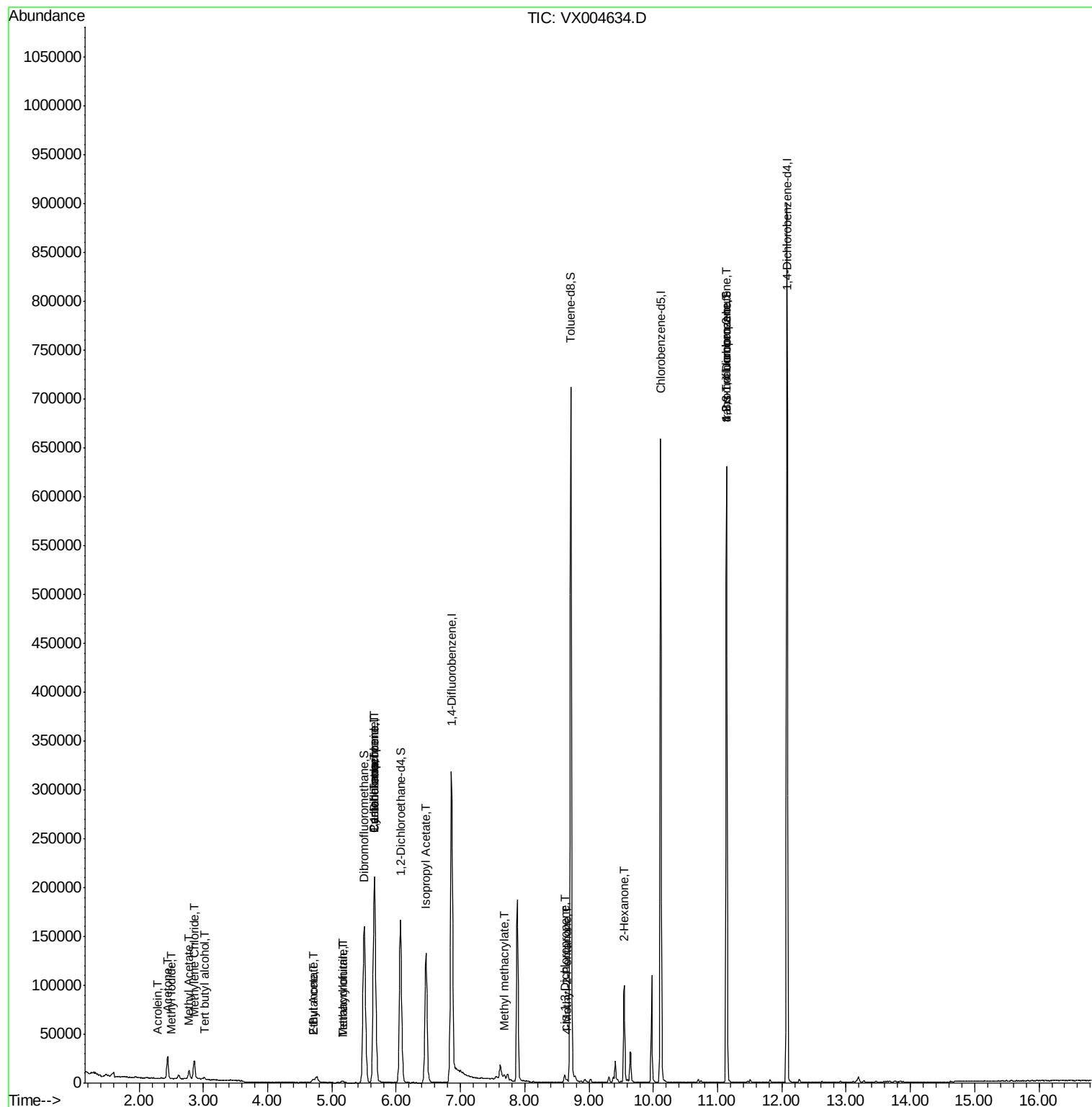
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	549	Below Cal	#	61
10) Methyl Iodide	2.51	142	107	4.29	ug/l #	41
11) Tert butyl alcohol	3.03	59	1245	1.85	ug/l #	72
13) Acrolein	2.29	56	56	0.21	ug/l #	1
16) Acetone	2.45	43	23648	17.20	ug/l	98
18) Methyl Acetate	2.78	43	10759	2.79	ug/l	98
20) Methylene Chloride	2.85	84	9222	3.27	ug/l	95
25) 2-Butanone	4.71	43	6778	3.10	ug/l	97
29) Tetrahydrofuran	5.16	42	1577	1.19	ug/l #	87
31) Cyclohexane	5.66	56	3509	0.86	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14122	3.56	ug/l #	49
37) Ethyl Acetate	4.71	43	6778	1.50	ug/l #	67
38) Carbon Tetrachloride	5.67	117	19340	4.99	ug/l #	16
41) Methacrylonitrile	5.16	41	1079	0.43	ug/l #	39
43) Isopropyl Acetate	6.46	43	167233	27.87	ug/l	98
48) Methyl methacrylate	7.69	41	6238	2.10	ug/l #	22
51) 4-Methyl-2-Pentanone	8.65	43	1476	0.35	ug/l #	63
54) cis-1,3-Dichloropropene	8.62	75	1147	0.28	ug/l #	72
59) 2-Hexanone	9.54	43	10744	3.31	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	72837	19.09	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72837	60.86	ug/l #	10

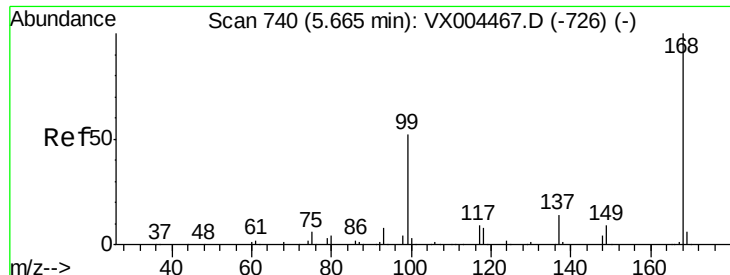
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Sep 18 00:57:18 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004634.D

Acq: 17 Sep 2018 22:12

Instrument :

MSVOA_X

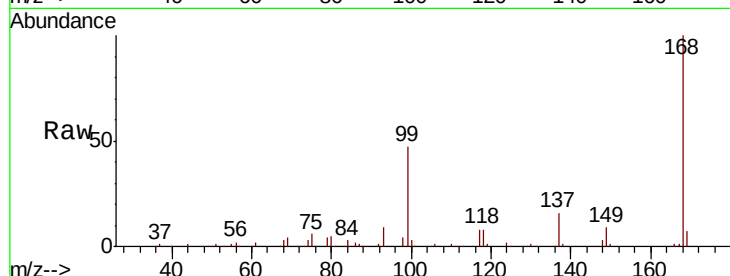
ClientSampled :

Tot Ion:168 Resp: 218488

Ion Ratio Lower Upper

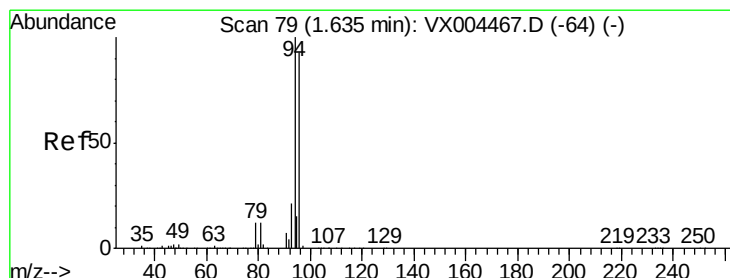
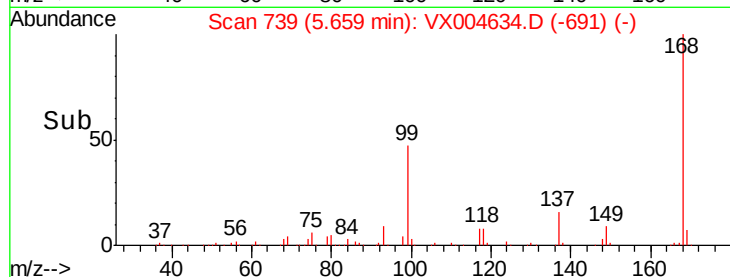
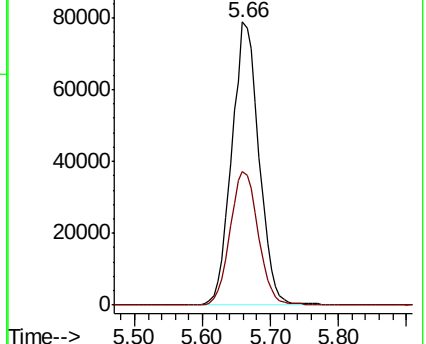
168 100

99 47.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004634.D

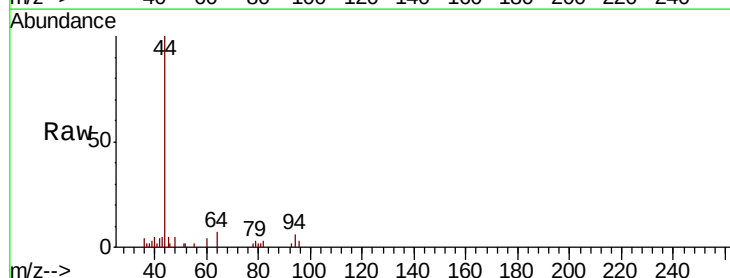
Acq: 17 Sep 2018 22:12

Tgt Ion: 94 Resp: 549

Ion Ratio Lower Upper

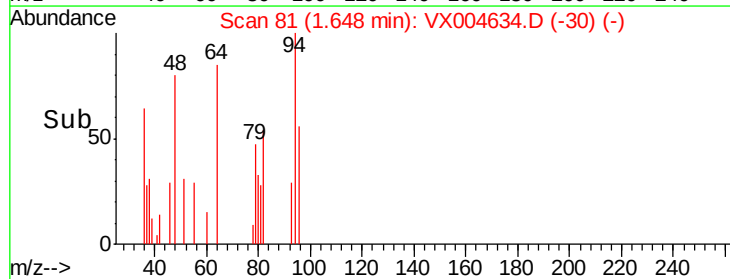
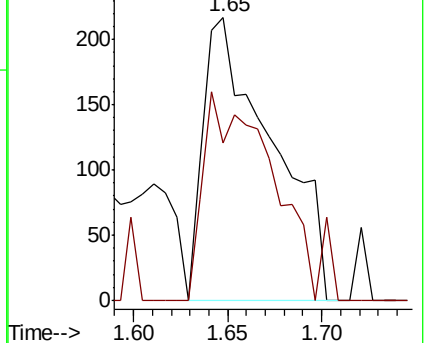
94 100

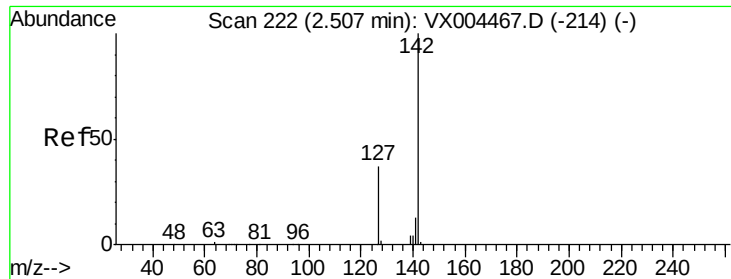
96 55.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

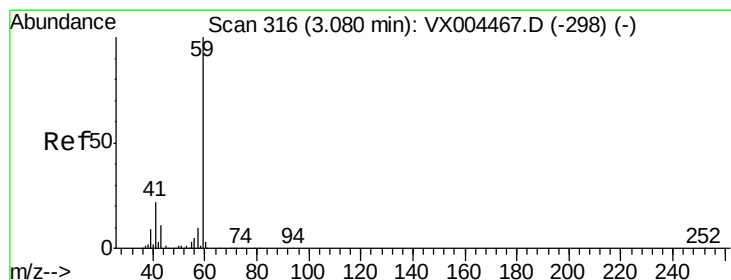
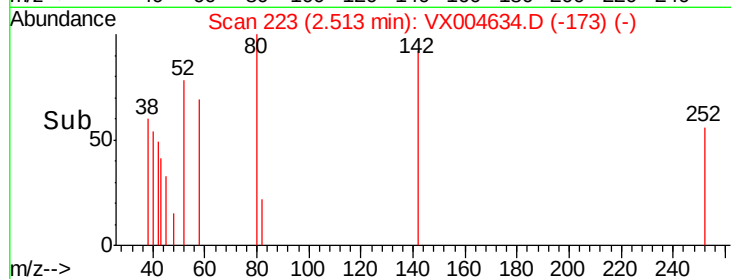
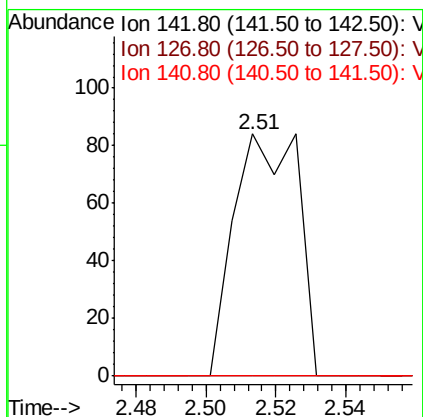
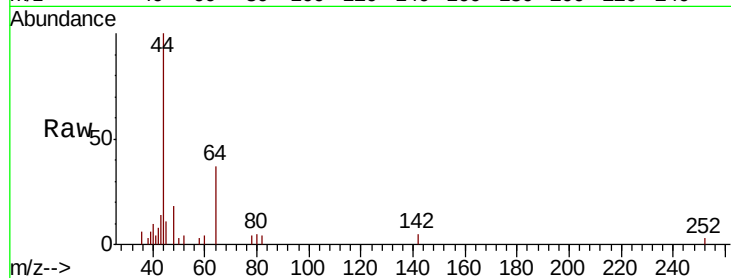




#10
Methvl Iodide
Concen: 4.29 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

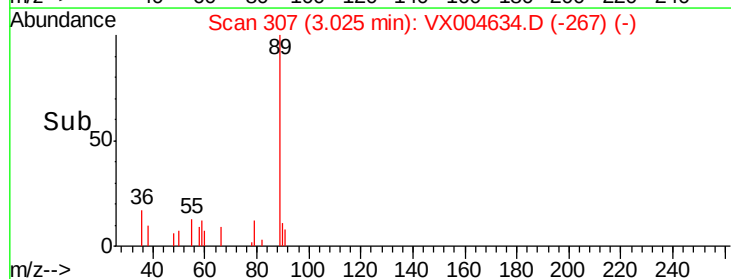
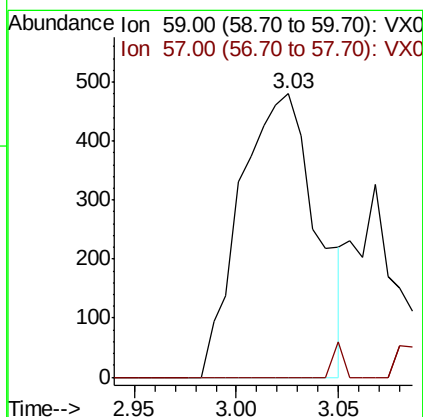
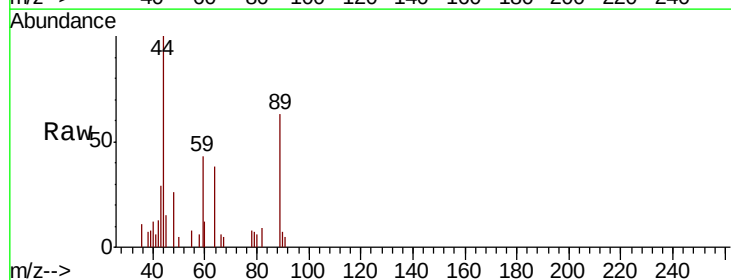
Instrument :
MSVOA_X
ClientSampleId :

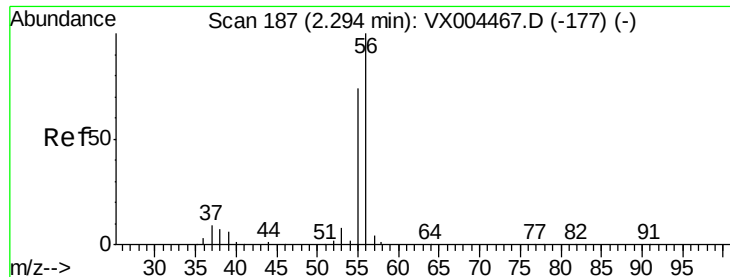
Tot Ion:142 Resp: 107
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.85 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Tgt Ion: 59 Resp: 1245
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

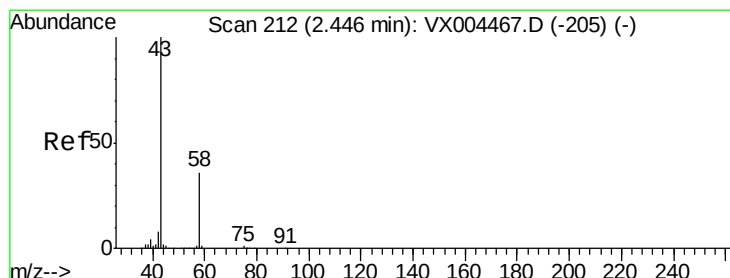
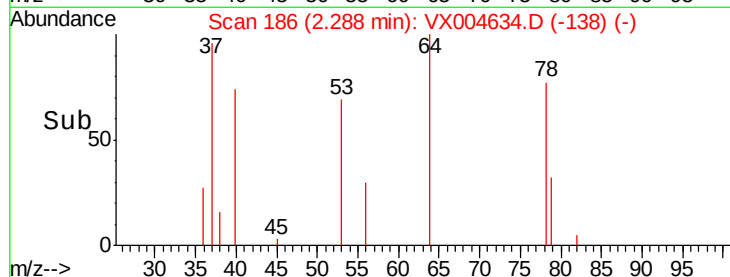
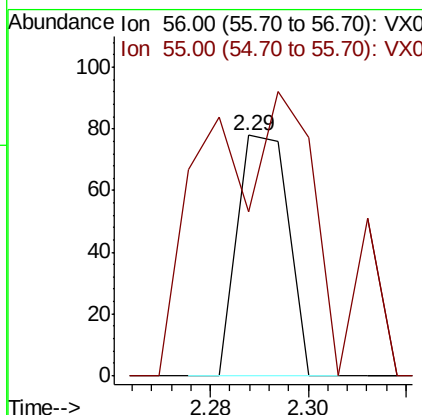
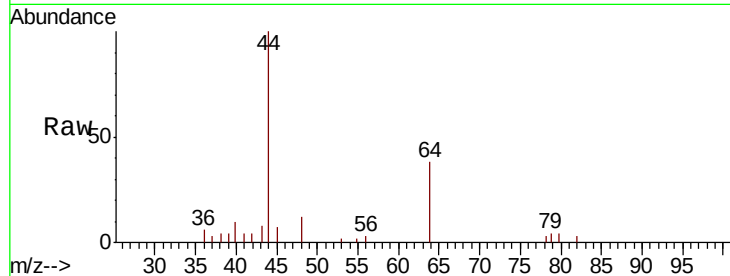




#13
Acrolein
Concen: 0.21 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

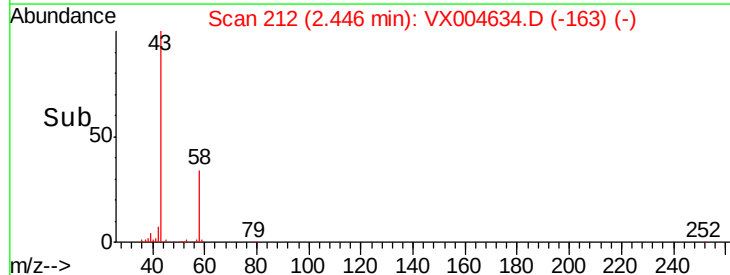
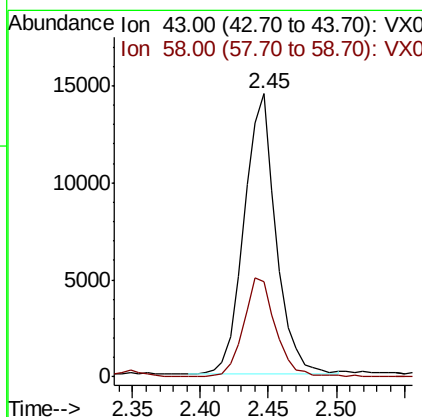
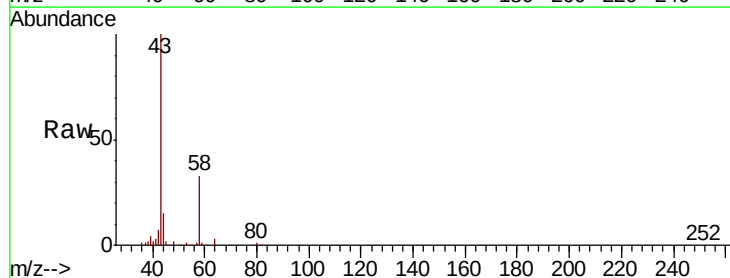
Instrument :
MSVOA_X
ClientSampleId :

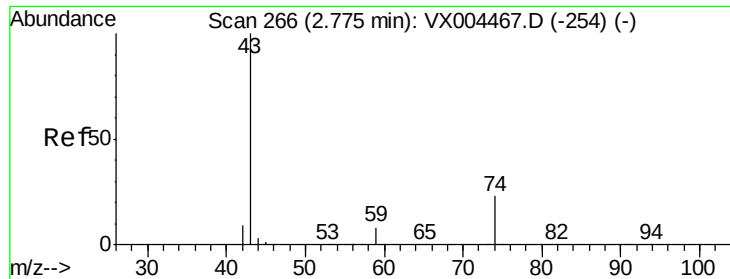
Tot Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 276.8 54.7 82.1#



#16
Acetone
Concen: 17.20 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Tgt Ion: 43 Resp: 23648
Ion Ratio Lower Upper
43 100
58 33.8 26.2 39.4

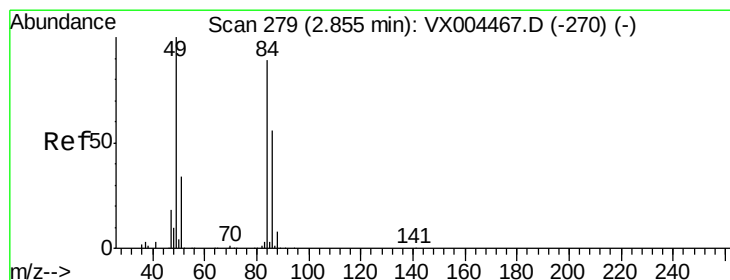
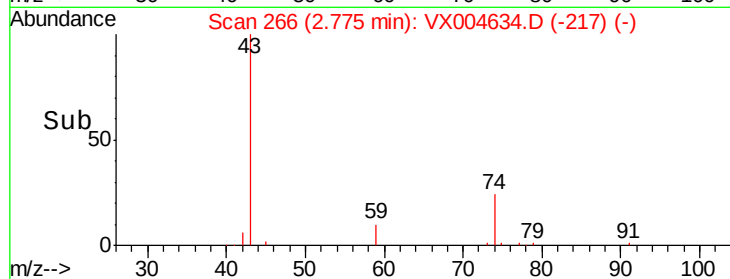
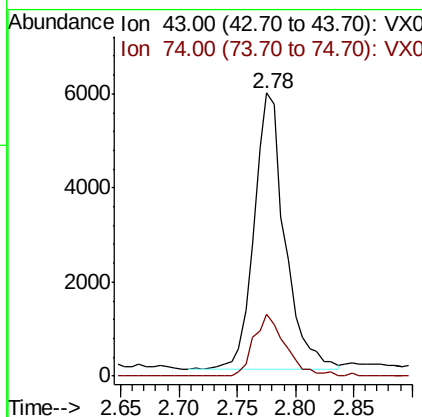
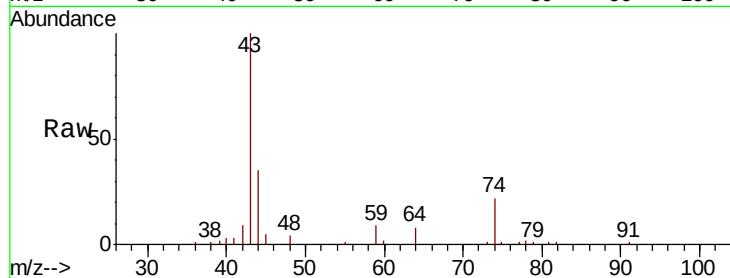




#18
Methvl Acetate
Concen: 2.79 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

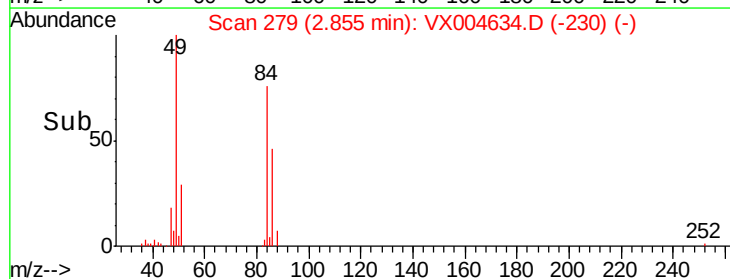
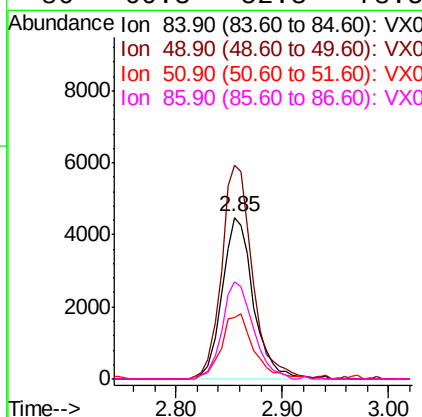
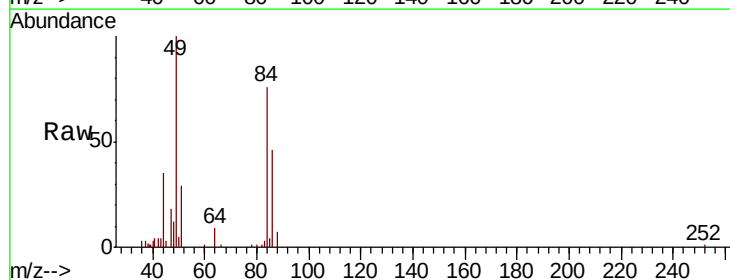
Instrument :
MSVOA_X
ClientSampleId :

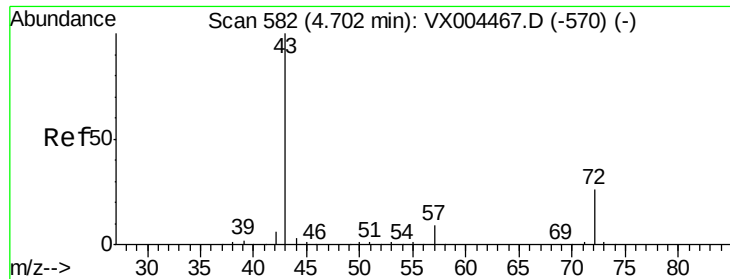
Tot Ion: 43 Resp: 10759
Ion Ratio Lower Upper
43 100
74 23.3 19.4 29.2



#20
Methylene Chloride
Concen: 3.27 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Tgt Ion: 84 Resp: 9222
Ion Ratio Lower Upper
84 100
49 132.3 101.2 151.8
51 37.8 29.5 44.3
86 60.3 52.3 78.5





#25

2-Butanone

Concen: 3.10 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004634.D

Acq: 17 Sep 2018 22:12

Instrument :

MSVOA_X

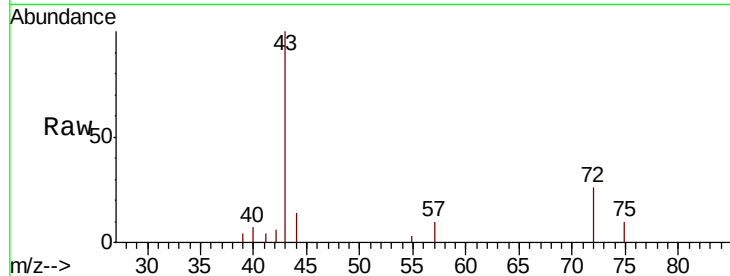
ClientSampleId :

Tot Ion: 43 Resp: 6778

Ion Ratio Lower Upper

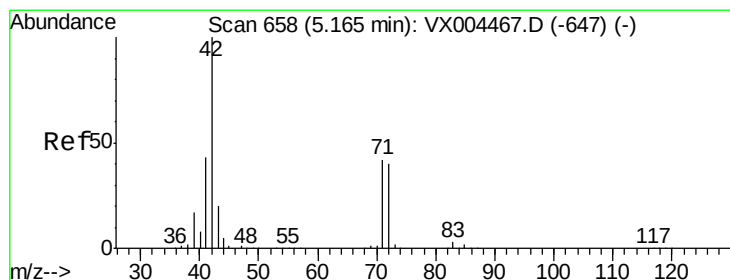
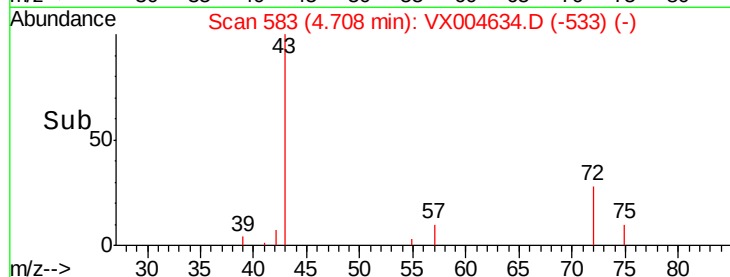
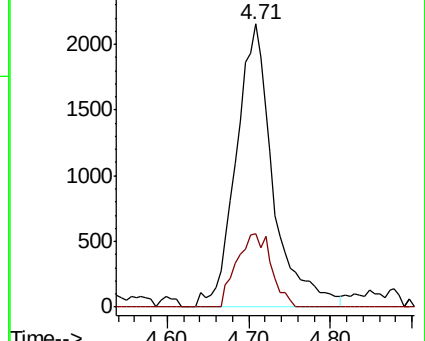
43 100

72 26.1 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.19 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004634.D

Acq: 17 Sep 2018 22:12

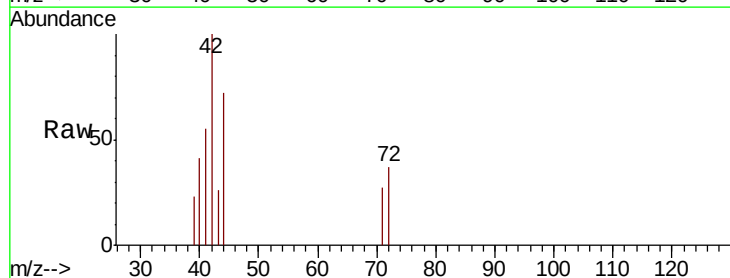
Tgt Ion: 42 Resp: 1577

Ion Ratio Lower Upper

42 100

72 40.4 37.4 56.0

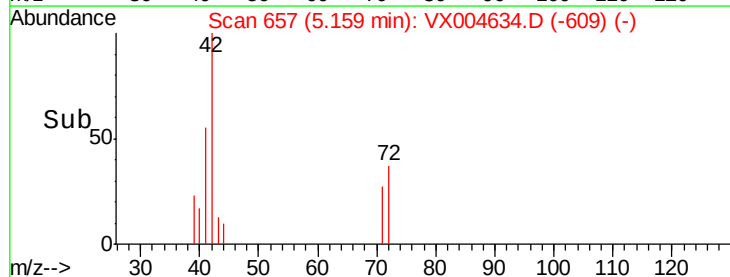
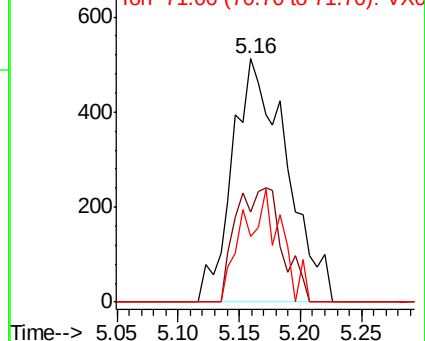
71 32.8 34.5 51.7#

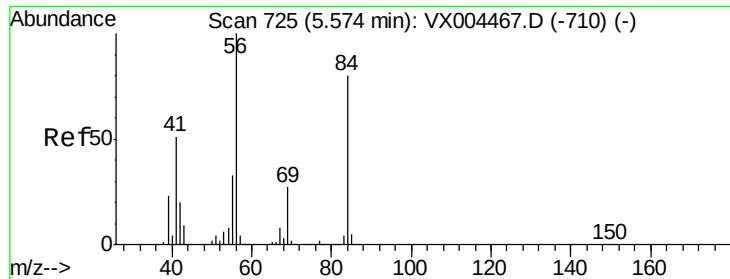


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

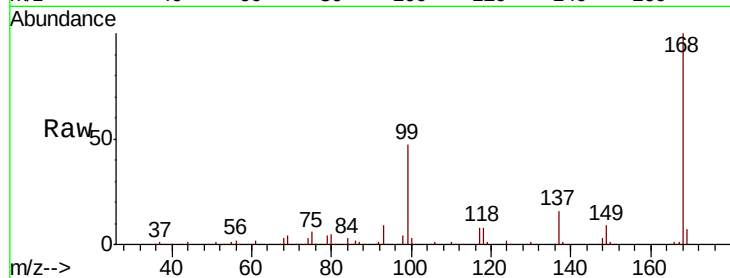




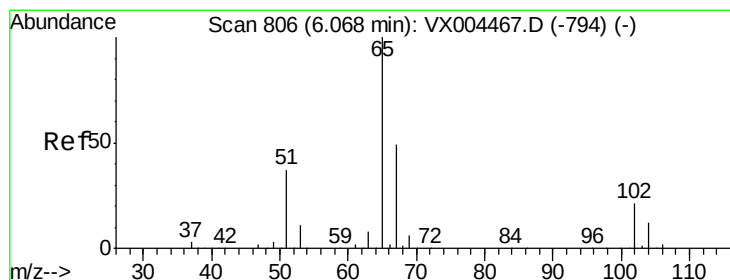
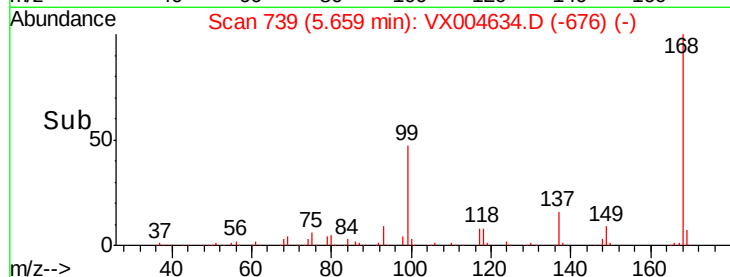
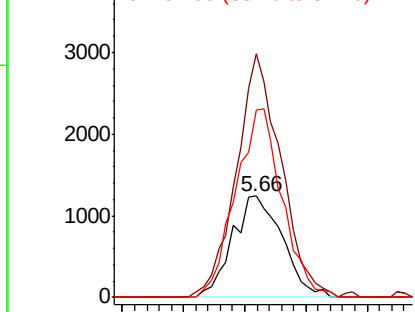
#31
Cyclohexane
Concen: 0.86 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3509
Ion Ratio Lower Upper
56 100
69 239.9 25.4 38.2#
84 185.2 71.4 107.2#

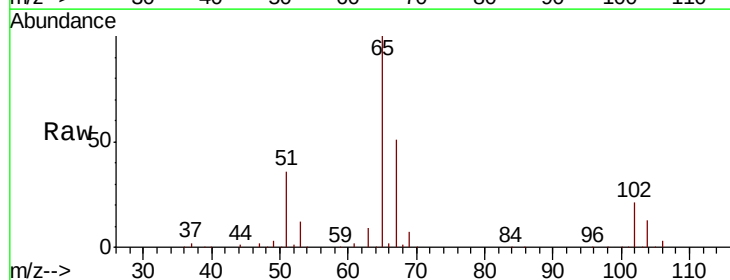


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

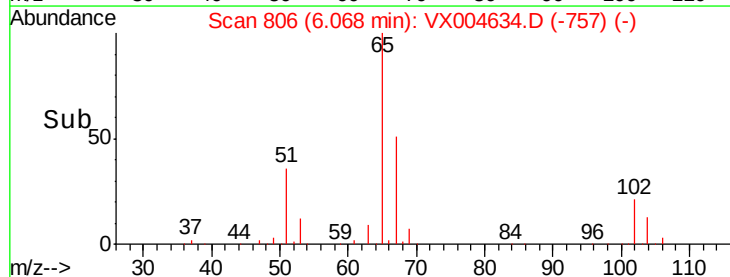
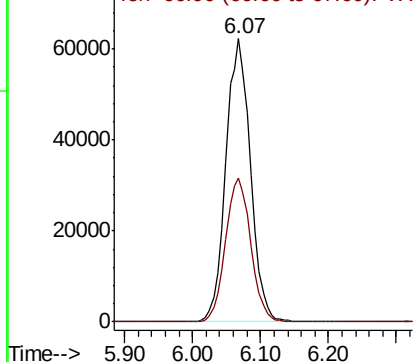


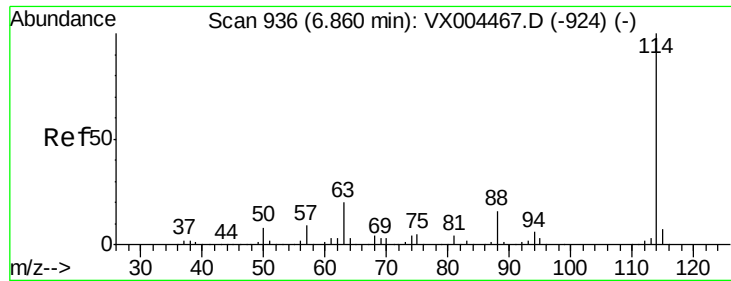
#33
1,2-Dichloroethane-d4
Concen: 55.07 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Tgt Ion: 65 Resp: 155155
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

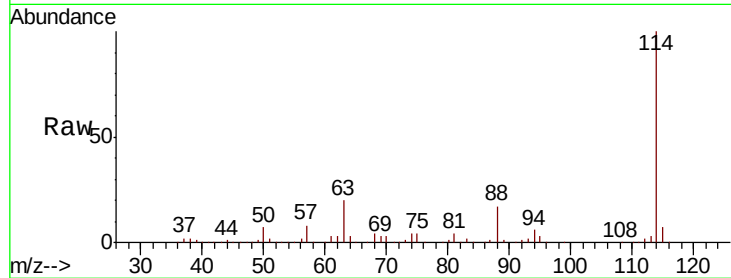




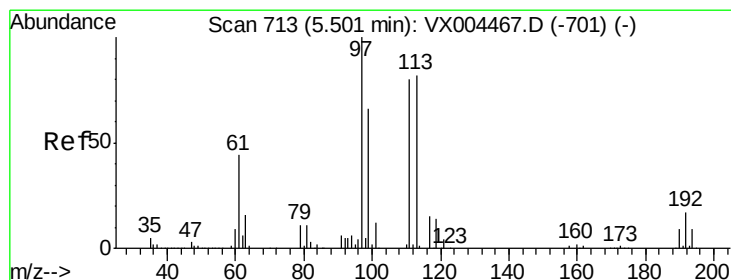
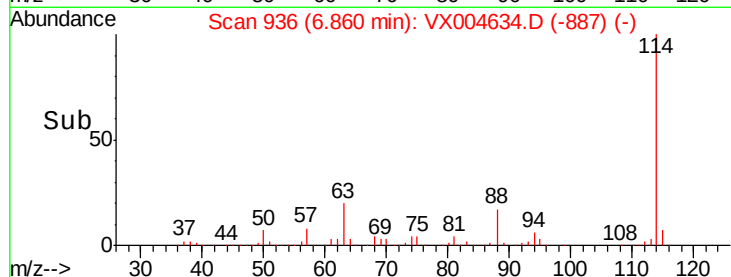
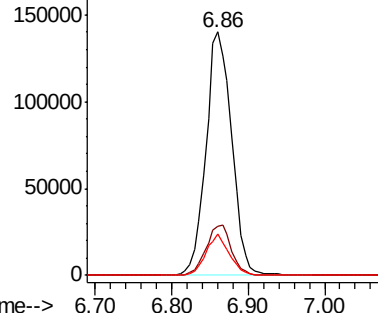
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004634.D
 Acq: 17 Sep 2018 22:12

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 327162
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.0
 88 17.2 0.0 30.4

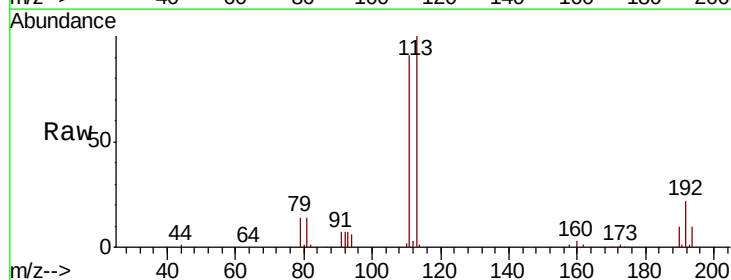


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

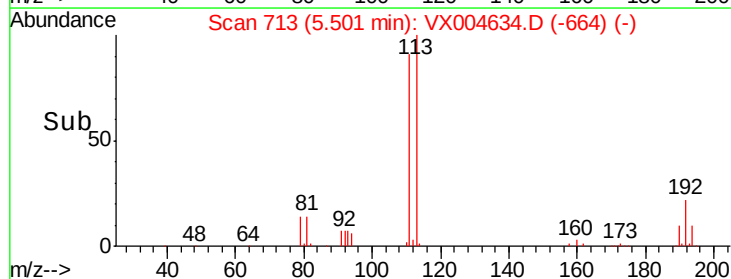
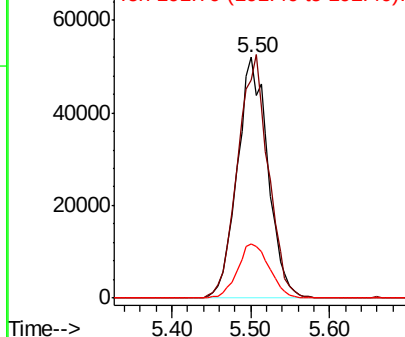


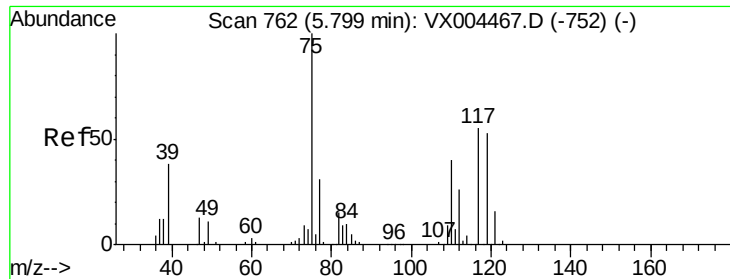
#35
 Dibromofluoromethane
 Concen: 47.05 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004634.D
 Acq: 17 Sep 2018 22:12

Tgt Ion:113 Resp: 140850
 Ion Ratio Lower Upper
 113 100
 111 100.4 82.4 123.6
 192 23.4 19.4 29.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

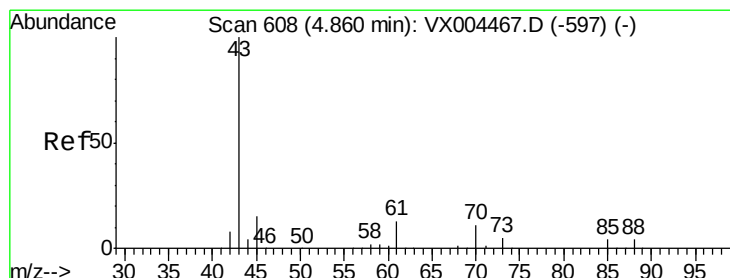
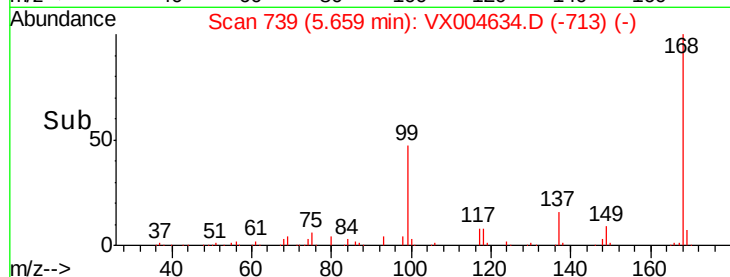
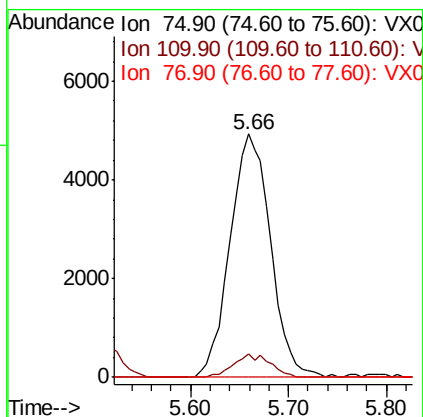
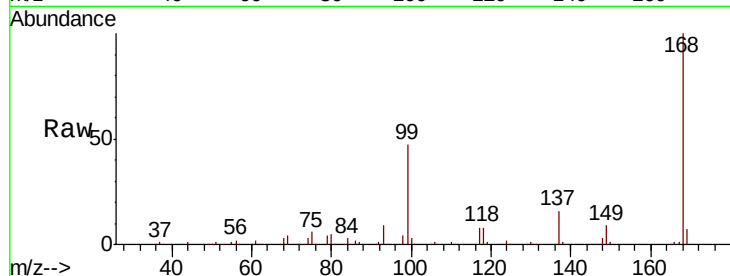




#36
 1,1-Dichloropropene
 Concen: 3.56 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004634.D
 Acq: 17 Sep 2018 22:12

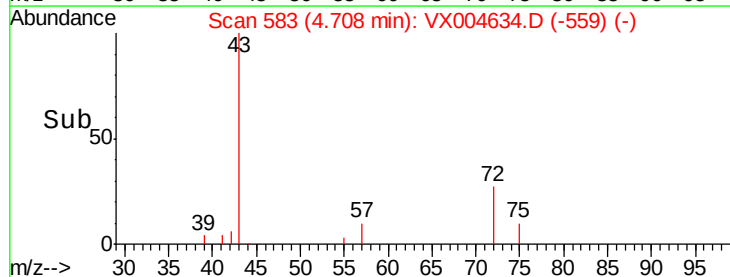
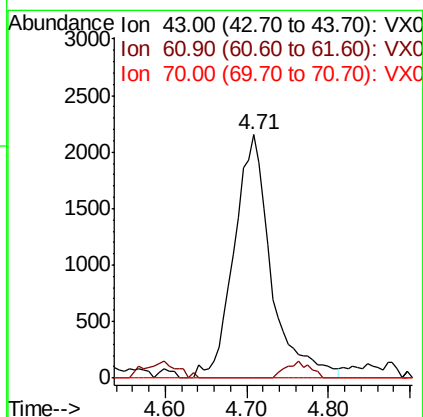
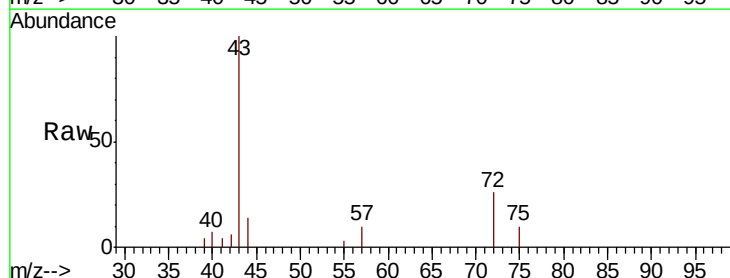
Instrument :
 MSVOA_X
 ClientSampleId :

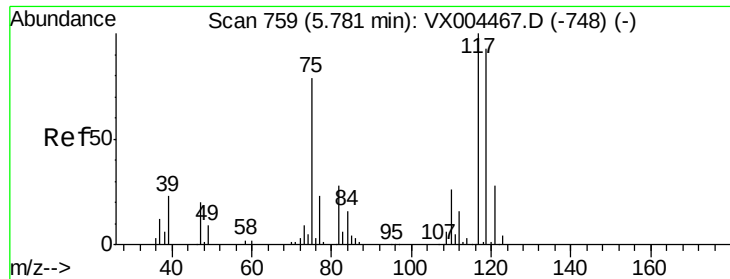
Tot Ion: 75 Resp: 14122
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.0 54.0#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 1.50 ug/l
 RT: 4.71 min Scan# 583
 Delta R.T. -0.15 min
 Lab File: VX004634.D
 Acq: 17 Sep 2018 22:12

Tgt Ion: 43 Resp: 6778
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 9.0 13.6#

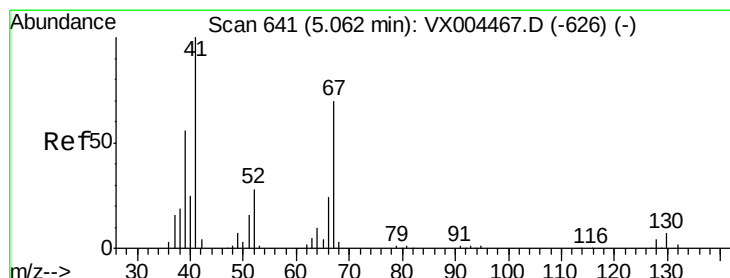
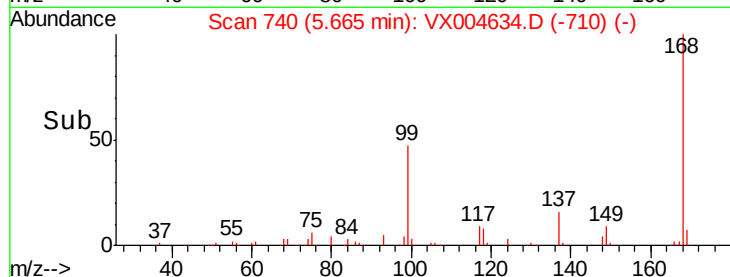
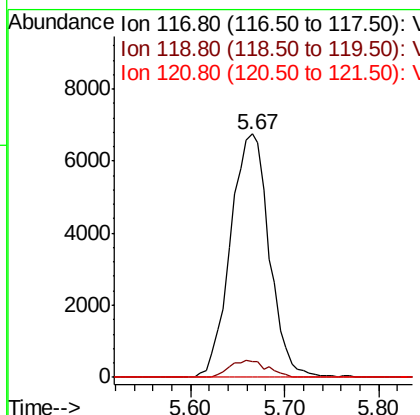
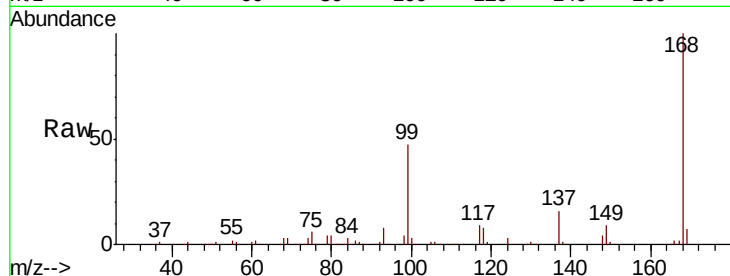




#38
Carbon Tetrachloride
Concen: 4.99 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

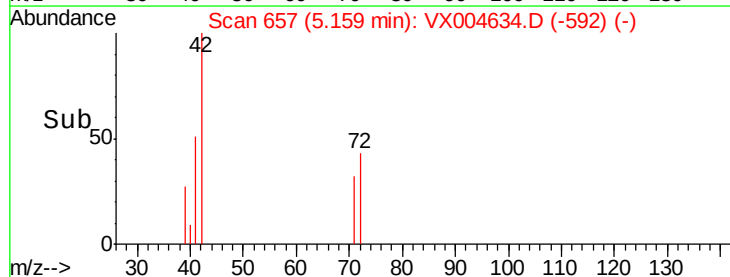
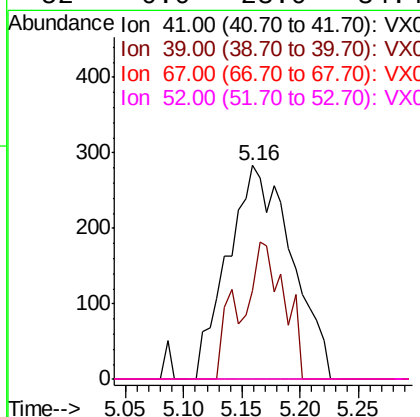
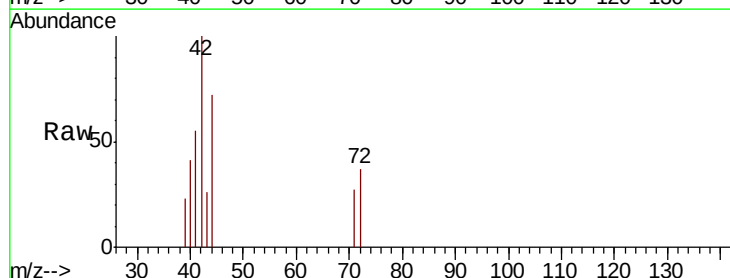
Instrument :
MSVOA_X
ClientSampled :

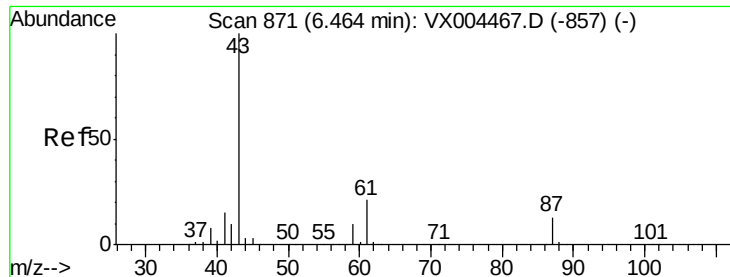
Tot Ion:117 Resp: 19340
Ion Ratio Lower Upper
117 100
119 6.5 78.8 118.2#
121 0.0 24.9 37.3#



#41
Methacrylonitrile
Concen: 0.43 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Tgt Ion: 41 Resp: 1079
Ion Ratio Lower Upper
41 100
39 33.8 42.4 63.6#
67 0.0 59.2 88.8#
52 0.0 23.0 34.4#





#43

Isopropyl Acetate

Concen: 27.87 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.00 min

Lab File: VX004634.D

Acq: 17 Sep 2018 22:12

Instrument :

MSVOA_X

ClientSampleId :

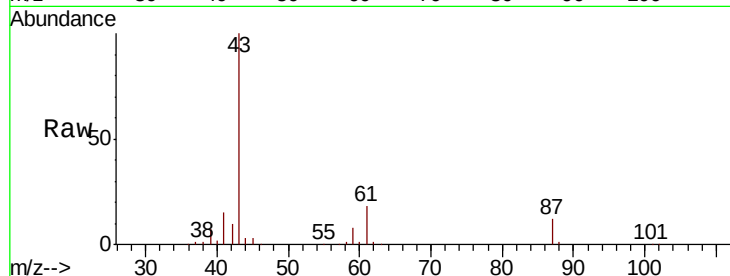
Tot Ion: 43 Resp: 167233

Ion Ratio Lower Upper

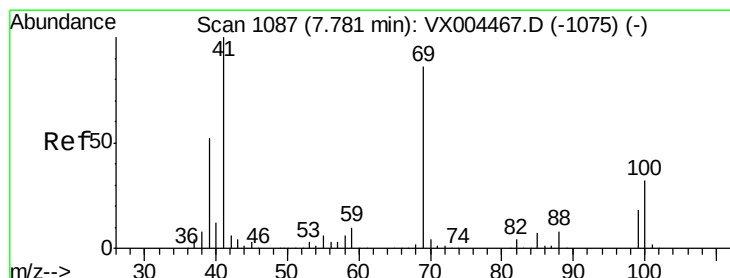
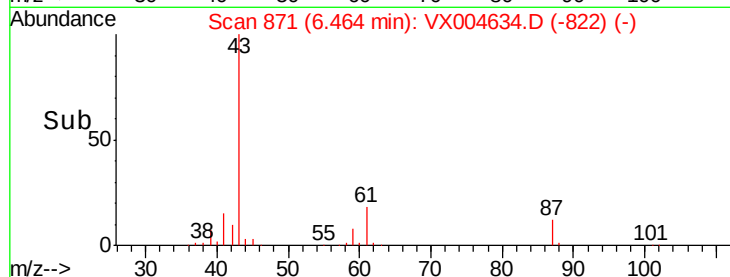
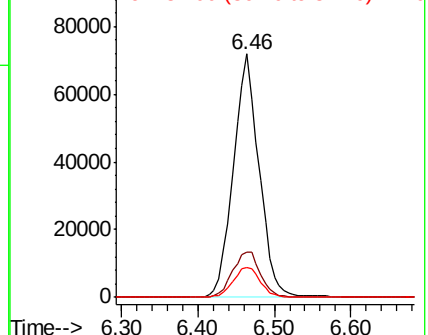
43 100

61 20.2 17.0 25.4

87 13.1 11.4 17.2



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: 2.10 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004634.D

Acq: 17 Sep 2018 22:12

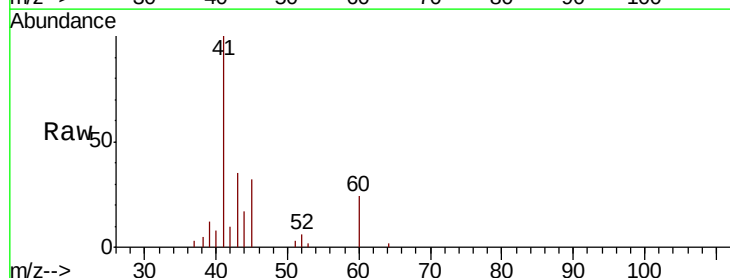
Tgt Ion: 41 Resp: 6238

Ion Ratio Lower Upper

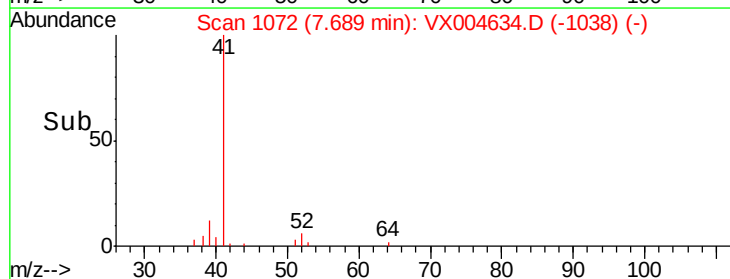
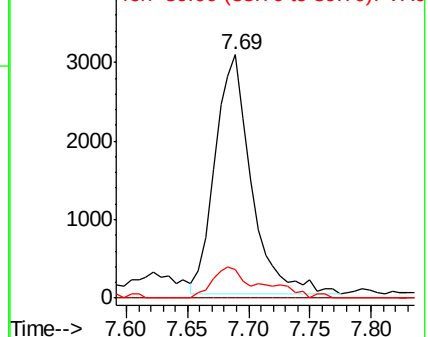
41 100

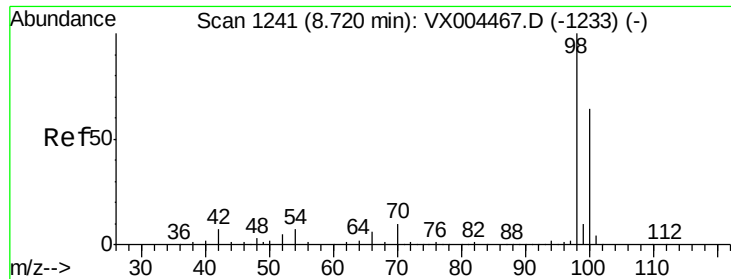
69 0.0 70.2 105.4#

39 17.0 42.7 64.1#



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

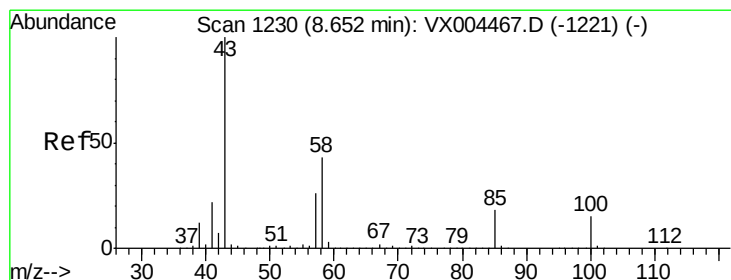
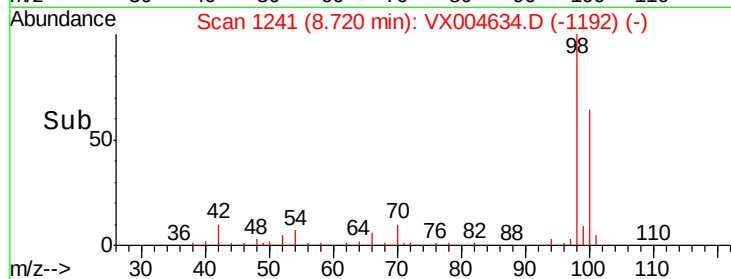
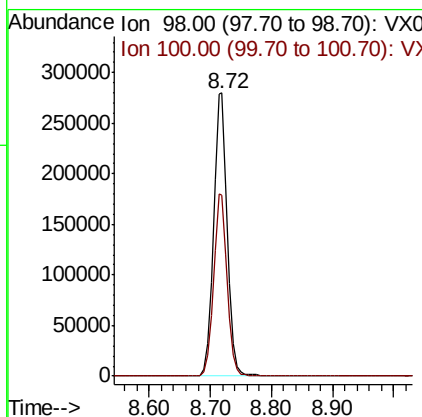
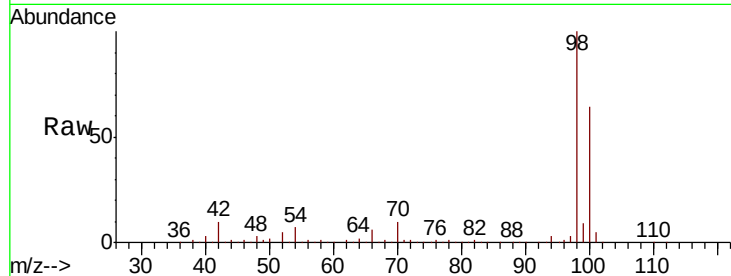




#50
Toluene-d8
Concen: 44.73 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

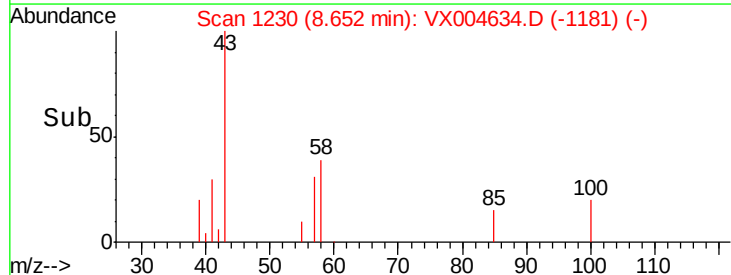
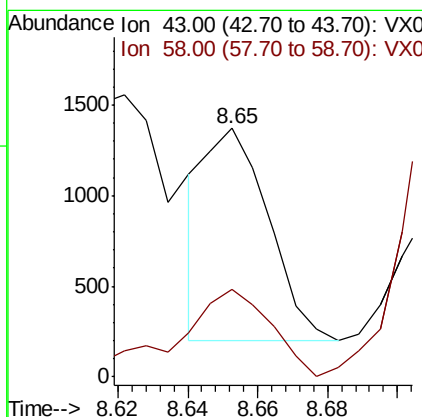
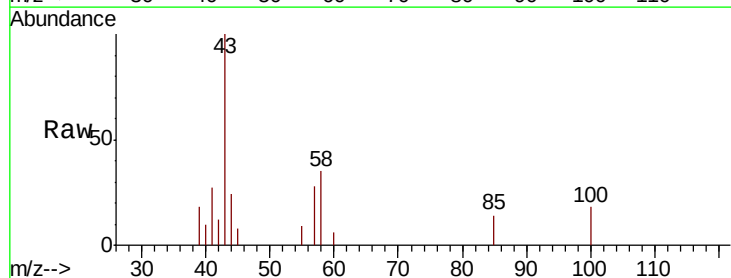
Instrument :
MSVOA_X
ClientSampleId :

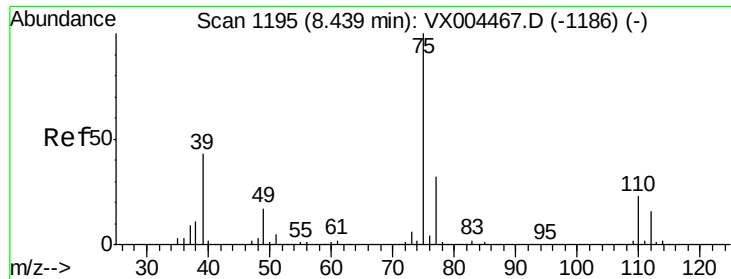
Tot Ion: 98 Resp: 449116
Ion Ratio Lower Upper
98 100
100 63.7 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.35 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Tgt Ion: 43 Resp: 1476
Ion Ratio Lower Upper
43 100
58 64.6 33.1 49.7#

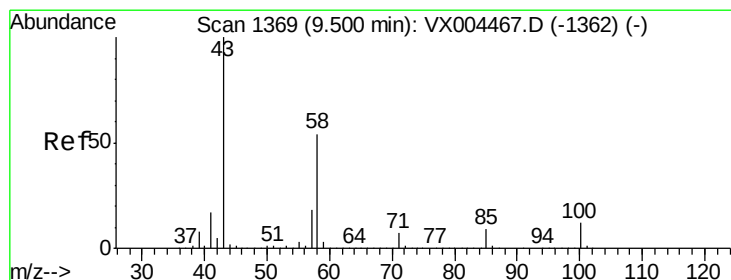
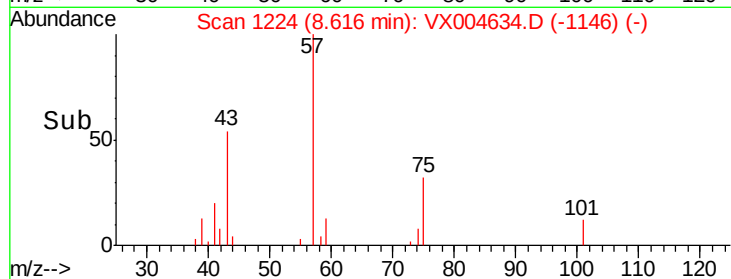
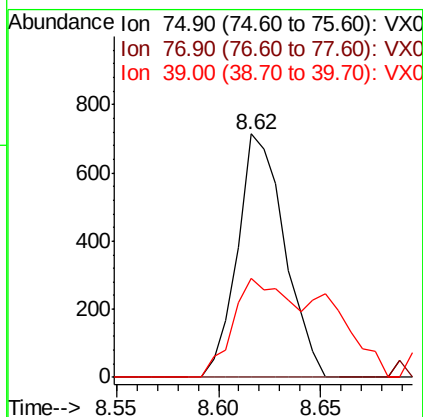
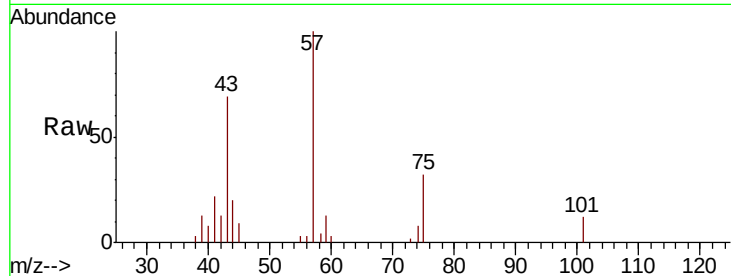




#54
 cis-1,3-Dichloropropene
 Concen: 0.28 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX004634.D
 Acq: 17 Sep 2018 22:12

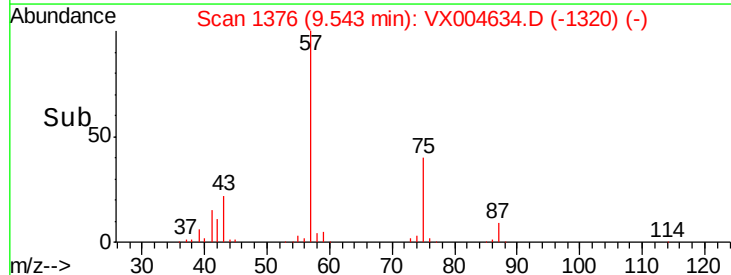
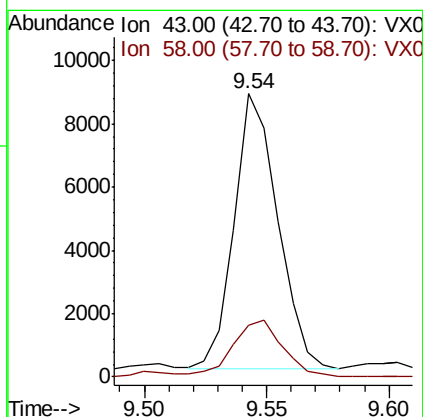
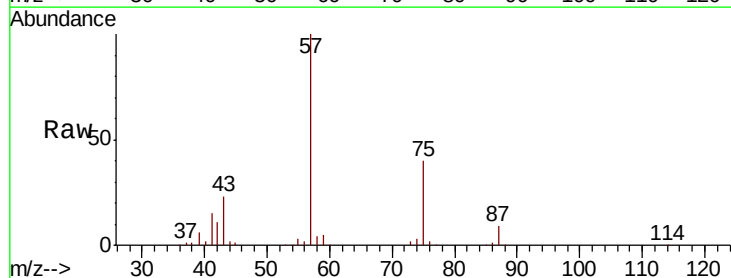
Instrument :
 MSVOA_X
 ClientSampleId :

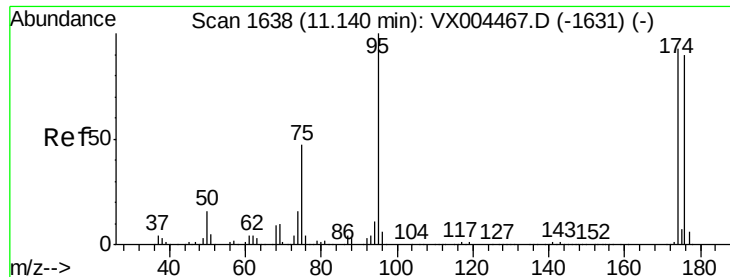
Tot Ion: 75 Resp: 1147
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 40.8 36.4 54.6



#59
 2-Hexanone
 Concen: 3.31 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.04 min
 Lab File: VX004634.D
 Acq: 17 Sep 2018 22:12

Tgt Ion: 43 Resp: 10744
 Ion Ratio Lower Upper
 43 100
 58 23.6 29.0 87.0#

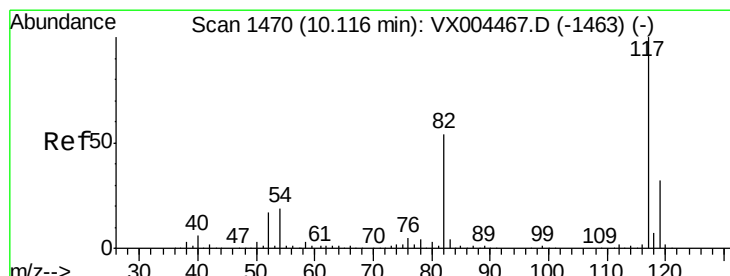
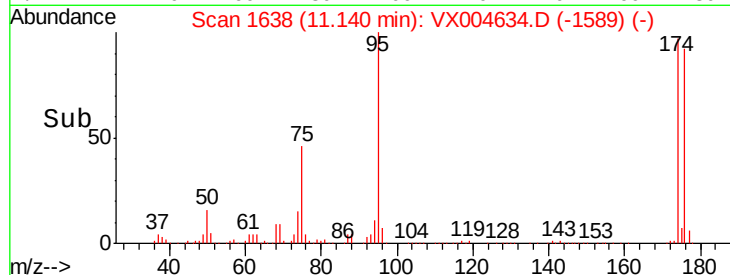
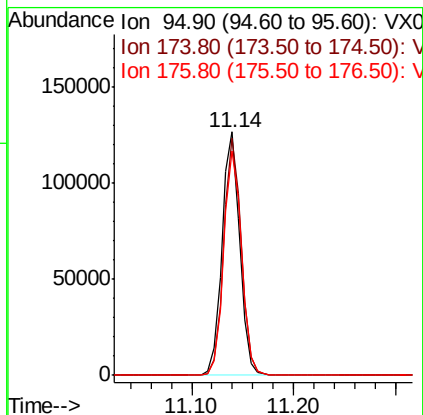
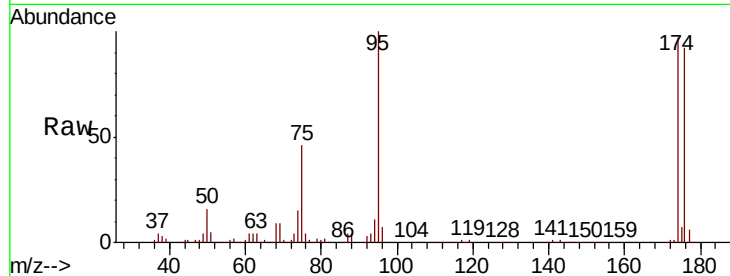




#62
4-Bromofluorobenzene
Concen: 43.03 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

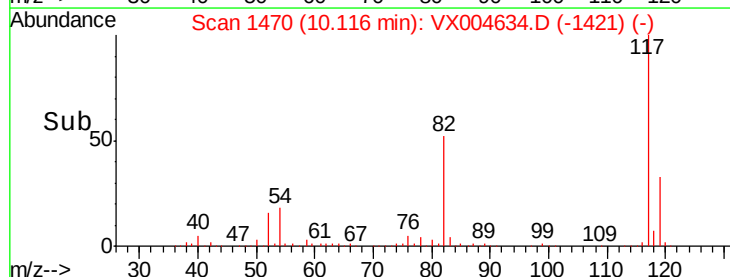
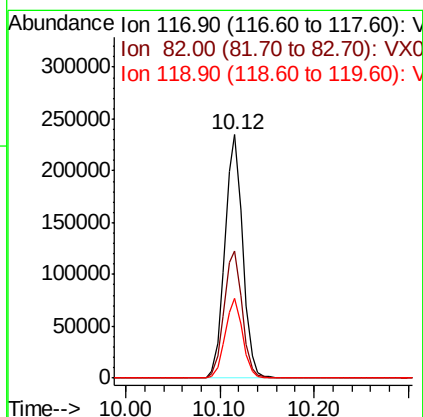
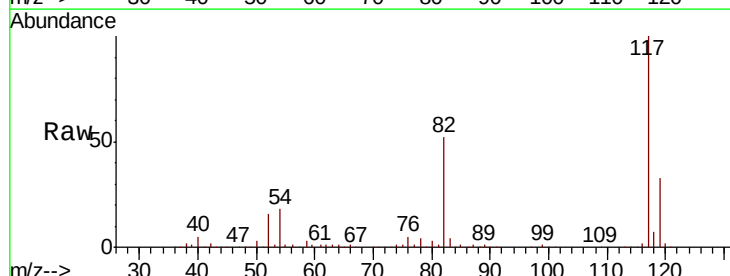
Instrument :
MSVOA_X
ClientSampleId :

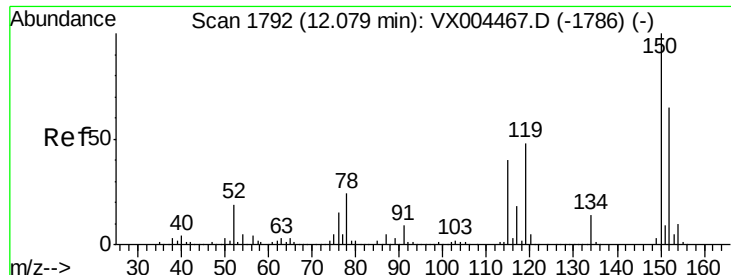
Tot Ion: 95 Resp: 154210
Ion Ratio Lower Upper
95 100
174 96.5 0.0 185.2
176 92.4 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004634.D
Acq: 17 Sep 2018 22:12

Tgt Ion: 117 Resp: 308490
Ion Ratio Lower Upper
117 100
82 52.4 47.8 71.6
119 32.6 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004634.D

Acq: 17 Sep 2018 22:12

Instrument :

MSVOA_X

ClientSampleId :

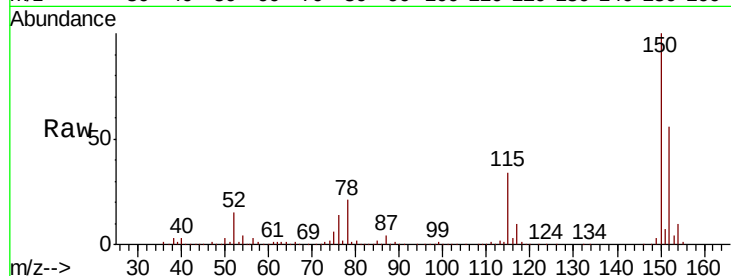
Tot Ion:152 Resp: 189616

Ion Ratio Lower Upper

152 100

115 54.4 39.0 117.0

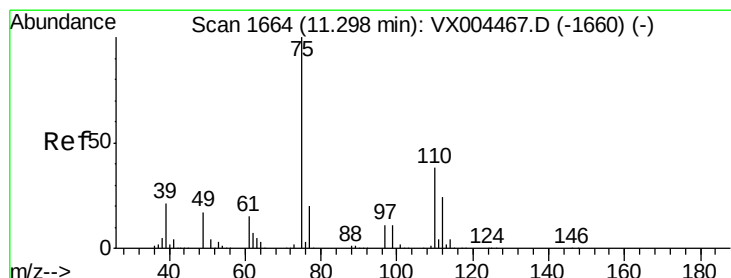
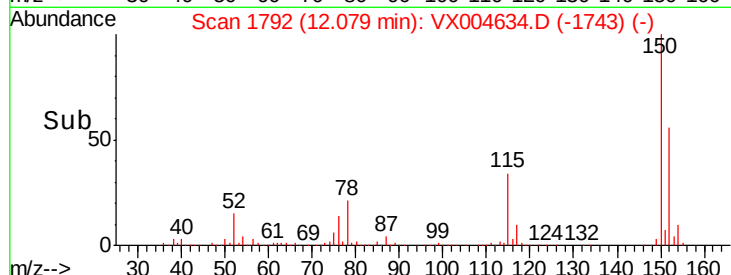
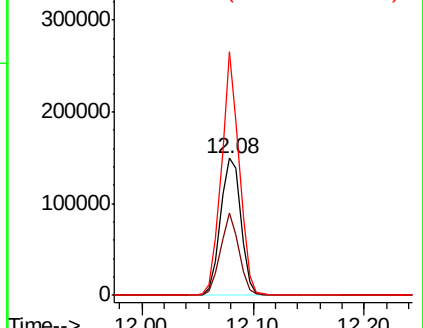
150 154.9 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 19.09 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004634.D

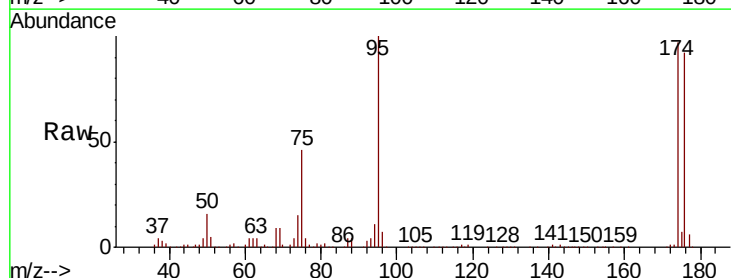
Acq: 17 Sep 2018 22:12

Tgt Ion: 75 Resp: 72837

Ion Ratio Lower Upper

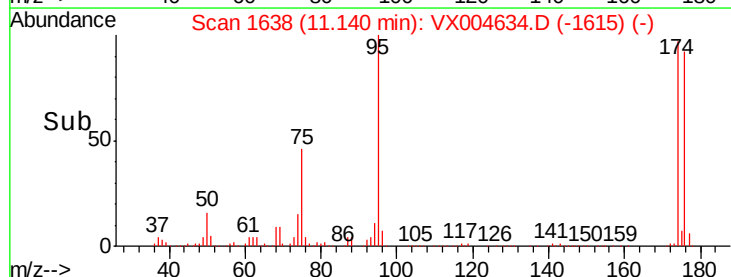
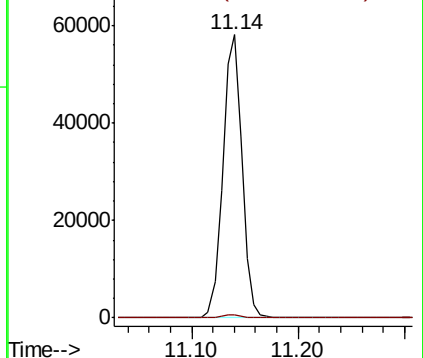
75 100

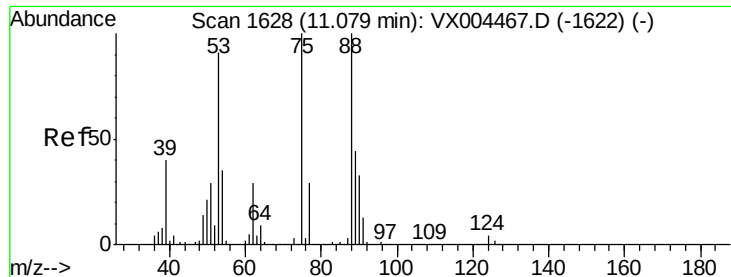
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.86 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004634.D

Acq: 17 Sep 2018 22:12

Instrument :

MSVOA_X

ClientSampleId :

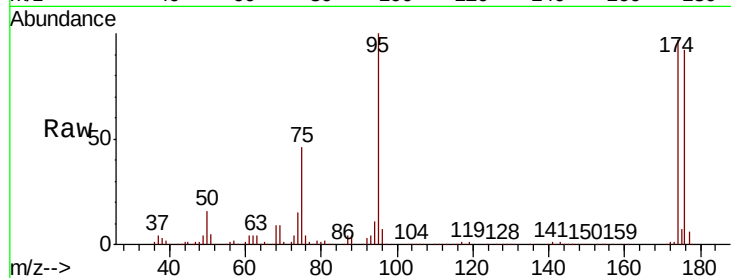
Tot Ion: 75 Resp: 72837

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

