

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051519\
 Data File : VX009591.D
 Acq On : 15 May 2019 19:31
 Operator : JC/SP
 Sample : PB119737TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 16 01:13:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	170513	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	273037	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244174	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	102982	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	113547	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
35) Dibromofluoromethane	5.50	113	83367	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
50) Toluene-d8	8.71	98	346846	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	
62) 4-Bromofluorobenzene	11.13	95	114707	45.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.12%	

Target Compounds

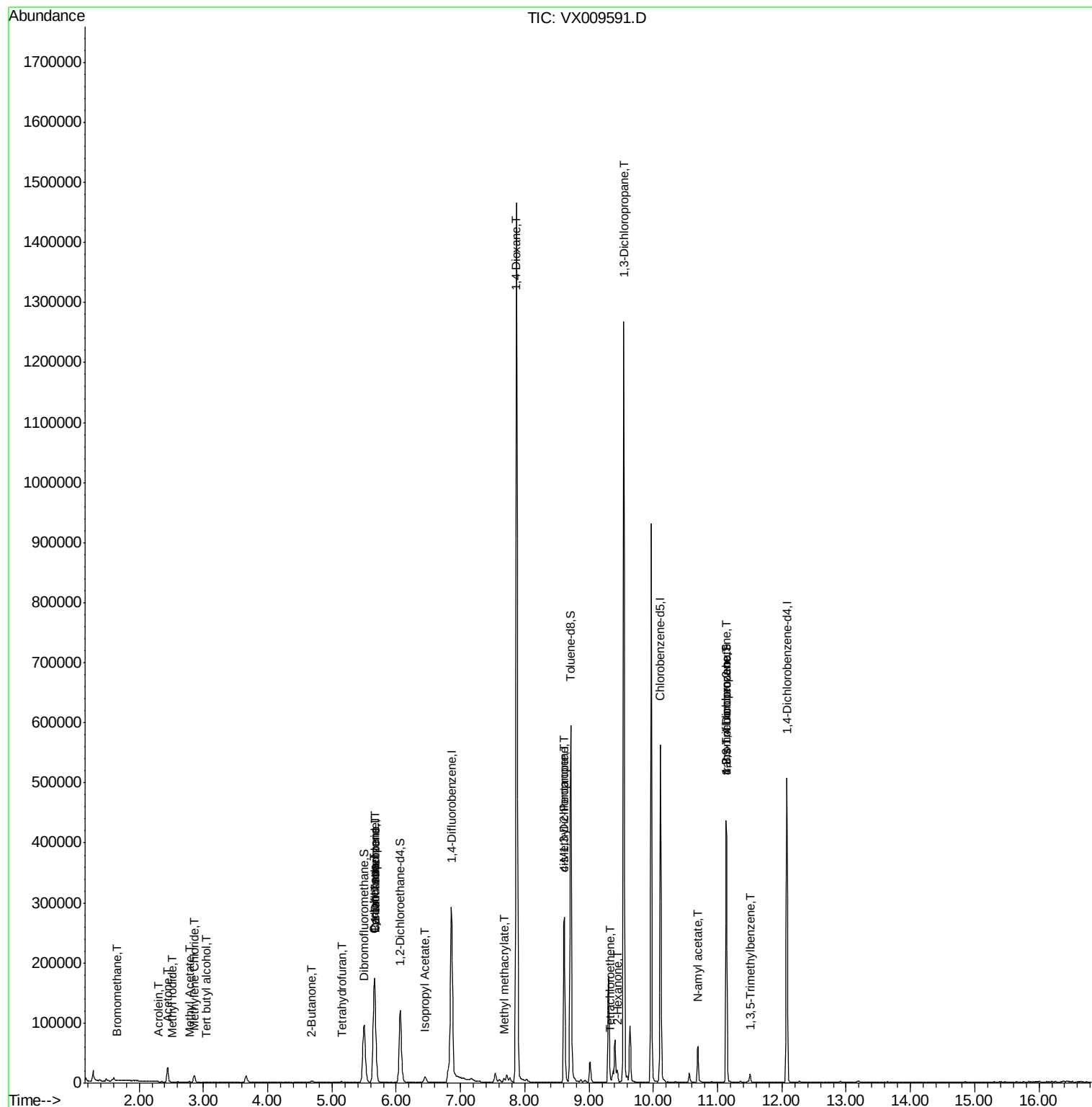
						Qvalue
5) Bromomethane	1.65	94	254	0.202	ug/l	93
10) Methyl Iodide	2.52	142	241	4.712	ug/l #	91
11) Tert butyl alcohol	3.04	59	873	1.620	ug/l	96
13) Acrolein	2.29	56	281	0.576	ug/l	93
16) Acetone	2.45	43	27834	22.269	ug/l	97
18) Methyl Acetate	2.78	43	1635	0.550	ug/l	93
20) Methylene Chloride	2.85	84	4987	2.464	ug/l #	87
25) 2-Butanone	4.68	43	4517	2.326	ug/l #	87
28) Bromochloromethane	5.00	49	21	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	1712	1.370	ug/l #	81
31) Cyclohexane	5.65	56	3937	1.144	ug/l #	6
36) 1,1-Dichloropropene	5.67	75	13018	5.131	ug/l #	50
38) Carbon Tetrachloride	5.67	117	15845	6.873	ug/l #	16
43) Isopropyl Acetate	6.45	43	13454	2.379	ug/l	99
48) Methyl methacrylate	7.68	41	7833	2.792	ug/l #	18
49) 1,4-Dioxane	7.87	88	233	4.095	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	97757	26.448	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	41874	13.010	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	10140	2.959	ug/l #	43
59) 2-Hexanone	9.44	43	13122	4.520	ug/l #	26
64) Tetrachloroethene	9.34	164	344	0.205	ug/l	90
74) N-amyl acetate	10.69	43	16504	3.780	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	58918	24.664	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.51	105	5249	0.832	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	58918	63.107	ug/l #	10

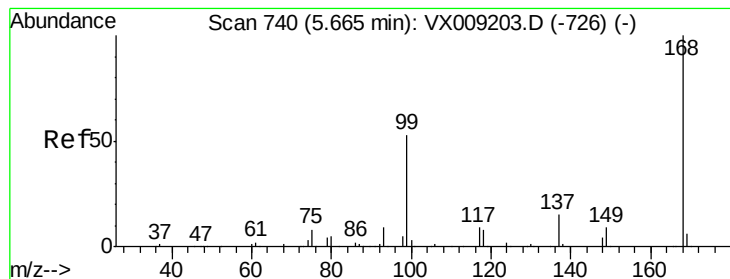
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: May 16 01:13:26 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009591.D

Acq: 15 May 2019 19:31

Instrument :

MSVOA_X

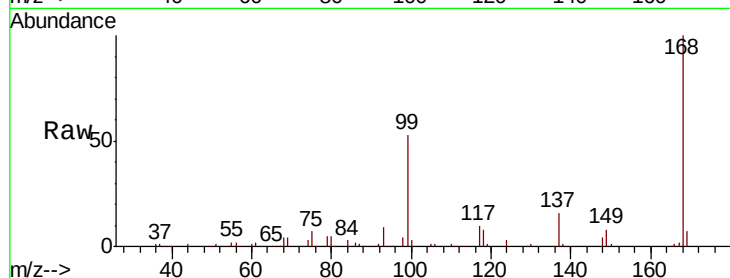
ClientSampleId :

Tot Ion:168 Resp: 170513

Ion Ratio Lower Upper

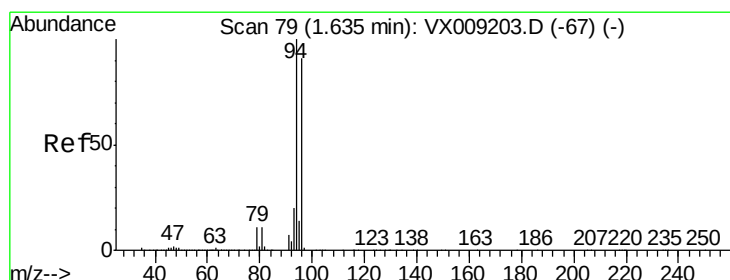
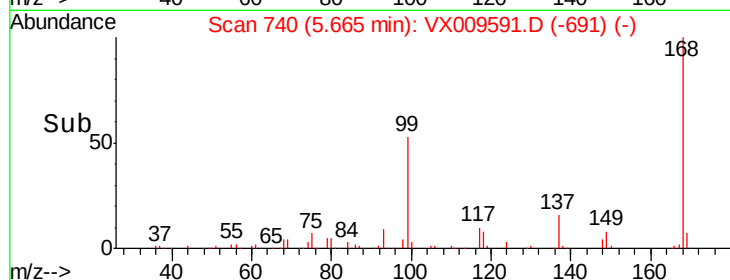
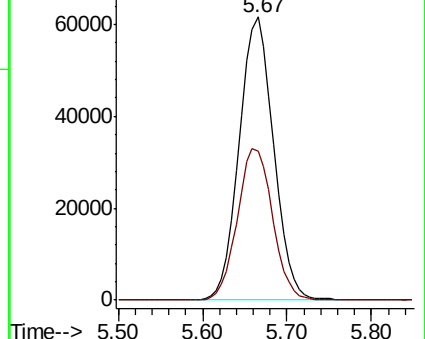
168 100

99 52.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.202 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009591.D

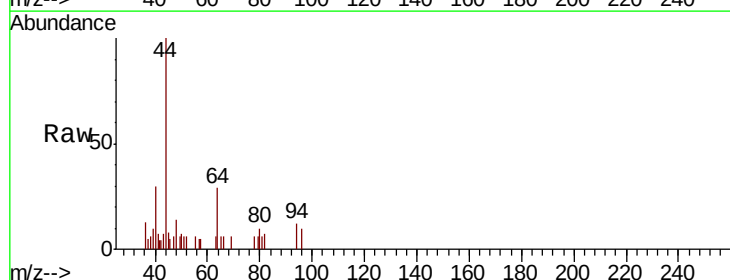
Acq: 15 May 2019 19:31

Tgt Ion: 94 Resp: 254

Ion Ratio Lower Upper

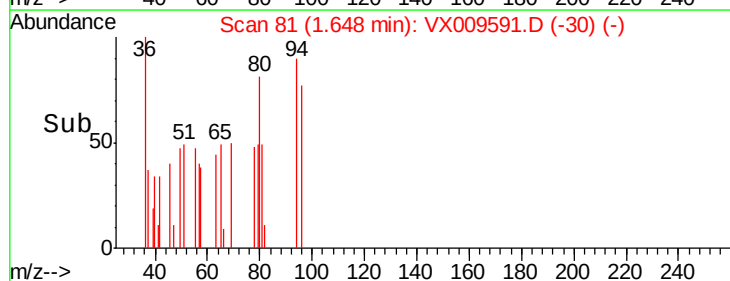
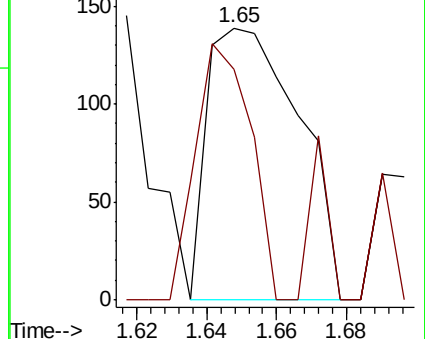
94 100

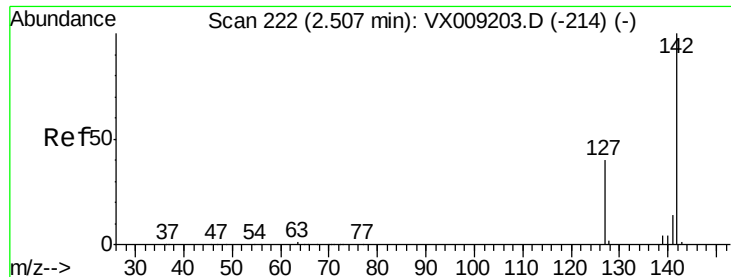
96 84.9 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

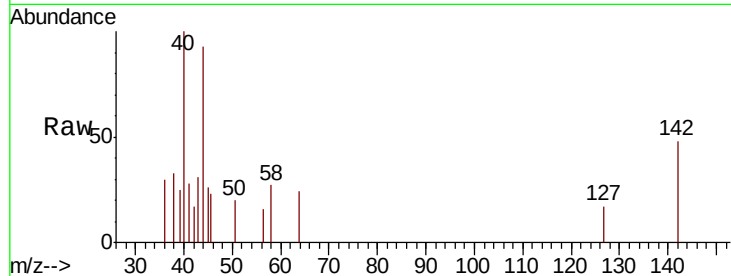




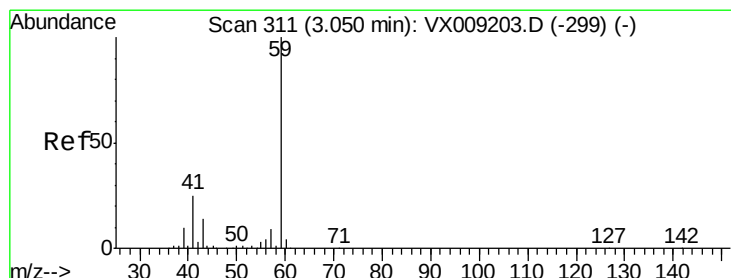
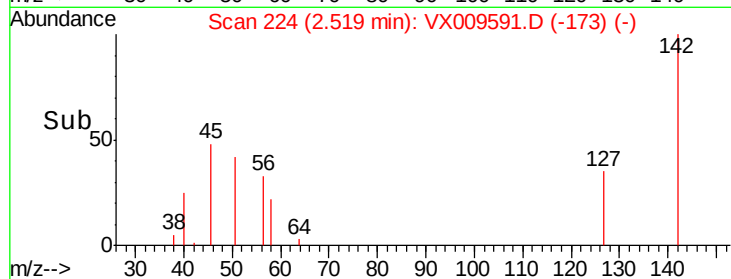
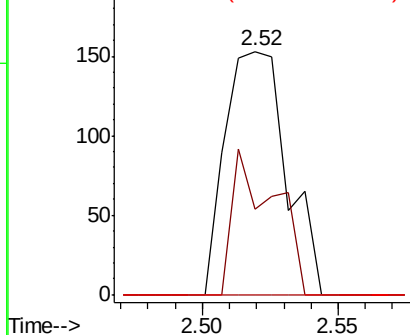
#10
Methvl Iodide
Concen: 4.712 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 241
Ion Ratio Lower Upper
142 100
127 41.1 32.7 49.1
141 0.0 11.5 17.3#

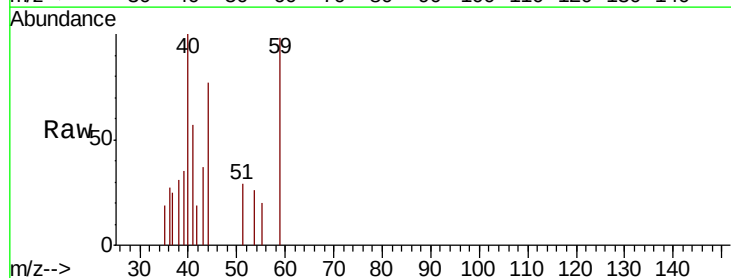


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

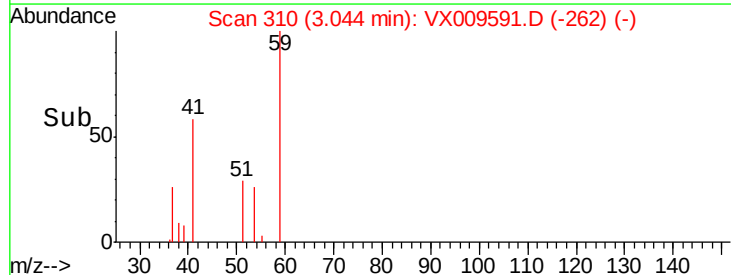
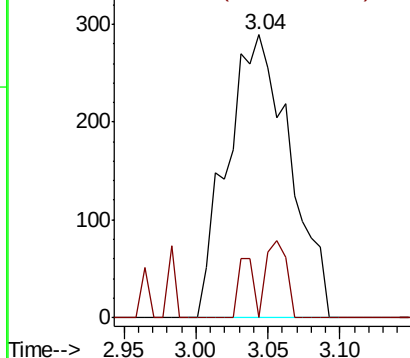


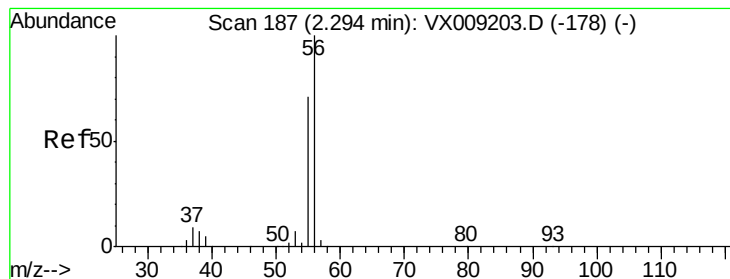
#11
Tert butyl alcohol
Concen: 1.620 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion: 59 Resp: 873
Ion Ratio Lower Upper
59 100
57 8.7 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.576 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009591.D

Acq: 15 May 2019 19:31

Instrument :

MSVOA_X

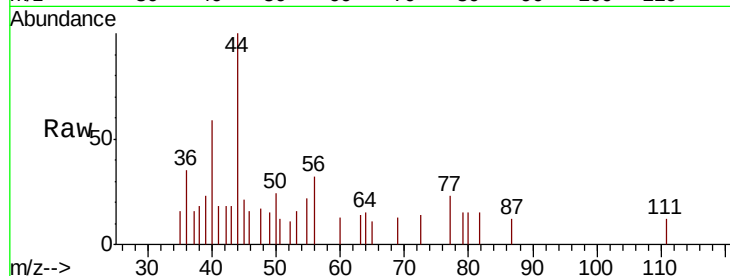
ClientSampled :

Tot Ion: 56 Resp: 281

Ion Ratio Lower Upper

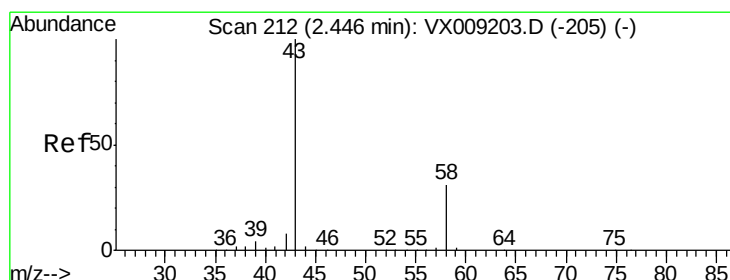
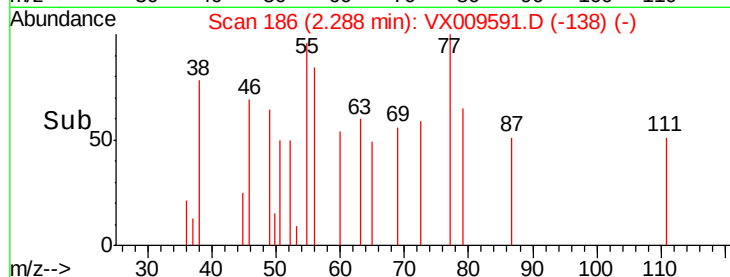
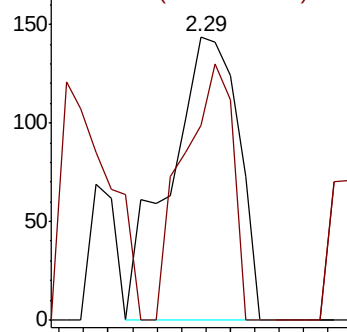
56 100

55 64.8 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 22.269 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009591.D

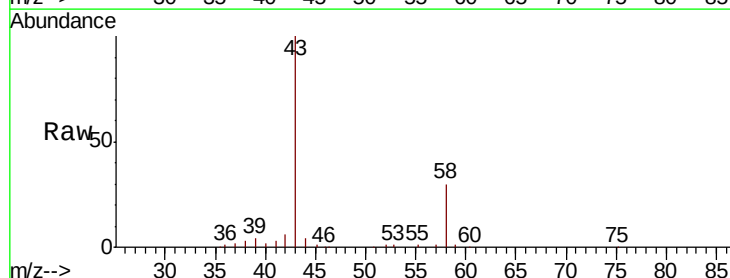
Acq: 15 May 2019 19:31

Tgt Ion: 43 Resp: 27834

Ion Ratio Lower Upper

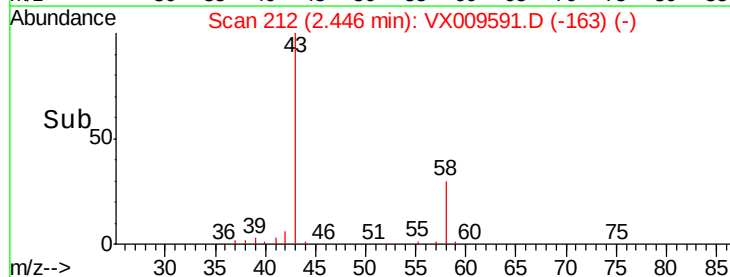
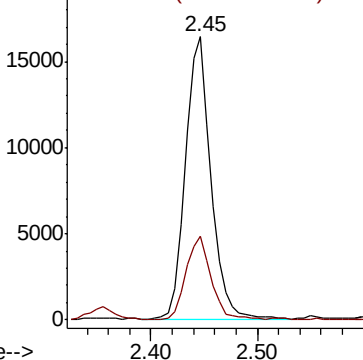
43 100

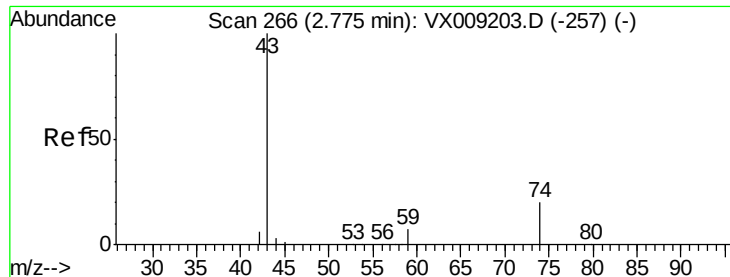
58 29.3 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

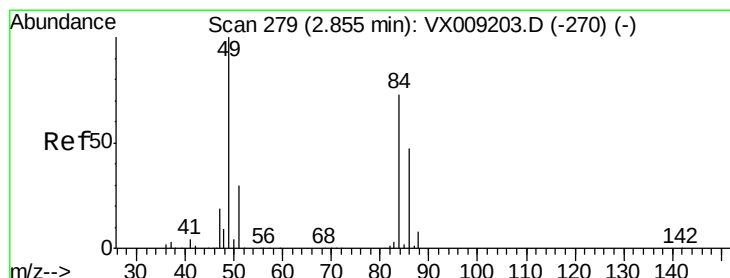
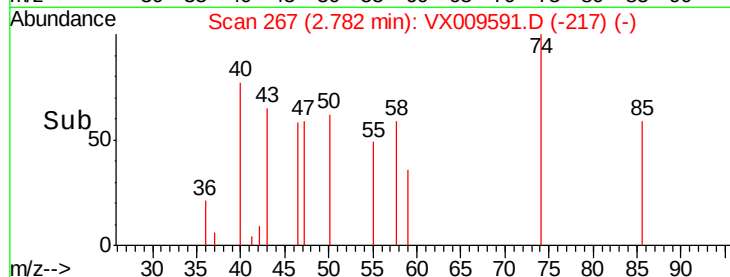
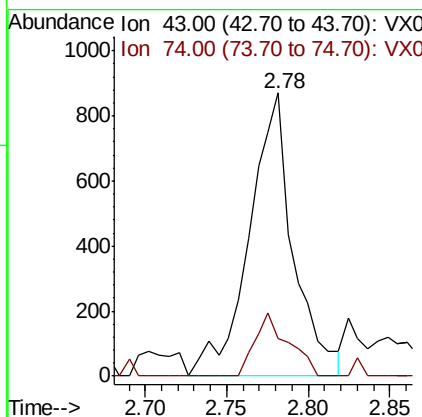
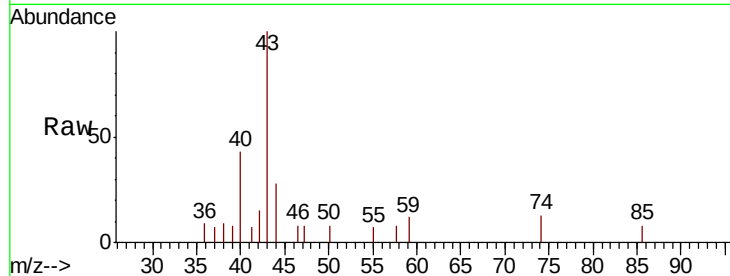




#18
Methyl Acetate
Concen: 0.550 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

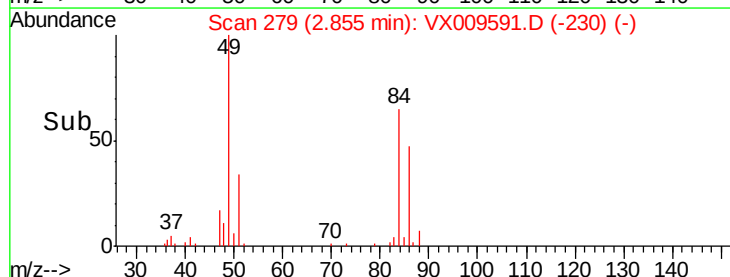
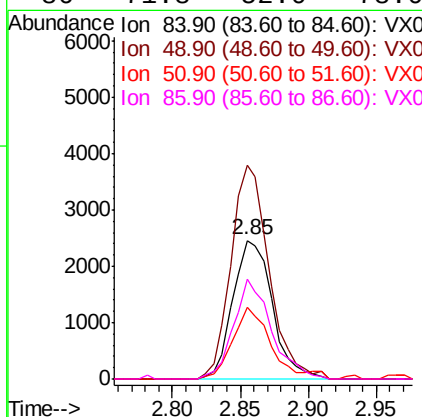
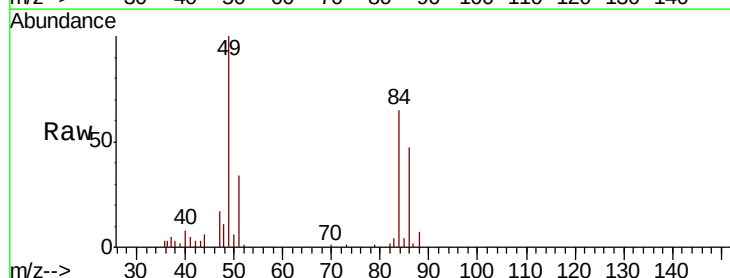
Instrument :
MSVOA_X
ClientSampleId :

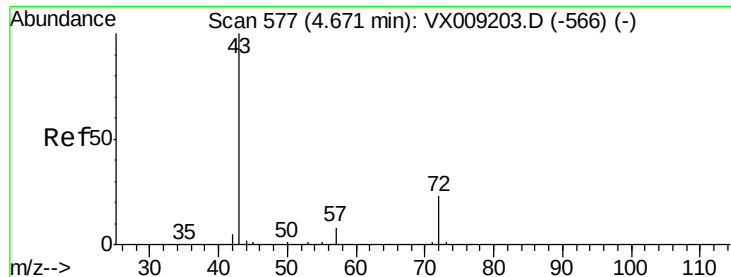
Tot Ion: 43 Resp: 1635
Ion Ratio Lower Upper
43 100
74 17.1 16.2 24.4



#20
Methylene Chloride
Concen: 2.464 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion: 84 Resp: 4987
Ion Ratio Lower Upper
84 100
49 154.3 109.9 164.9
51 51.8 32.7 49.1#
86 71.8 52.0 78.0





#25

2-Butanone

Concen: 2.326 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009591.D

Acq: 15 May 2019 19:31

Instrument :

MSVOA_X

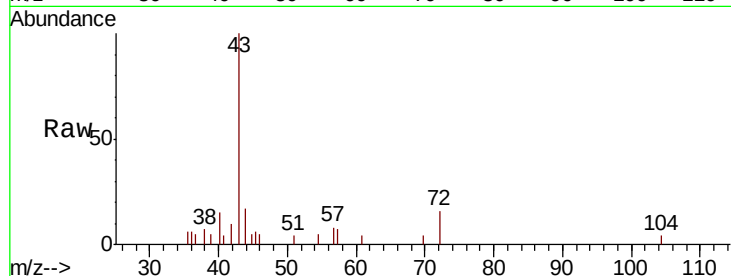
ClientSampleId :

Tot Ion: 43 Resp: 4517

Ion Ratio Lower Upper

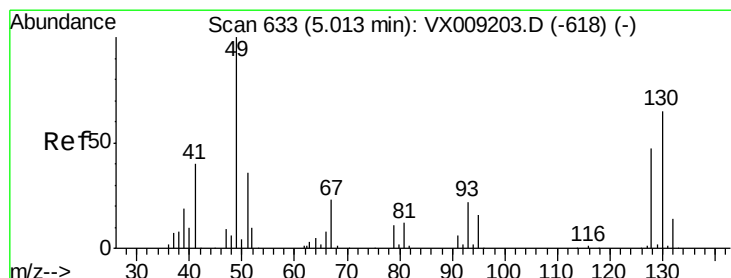
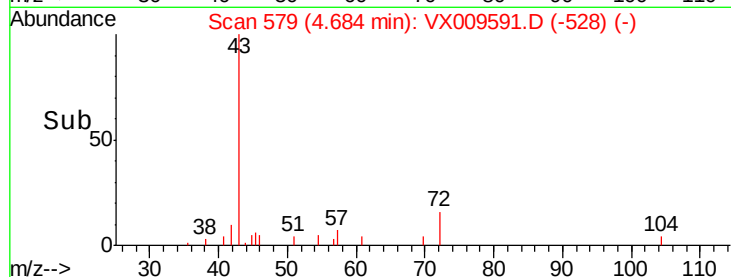
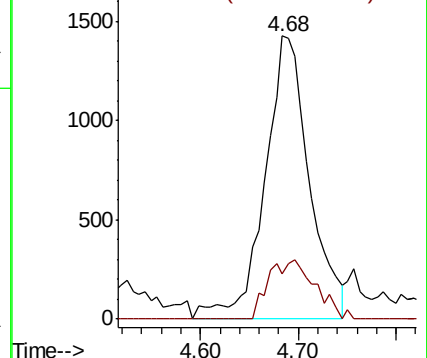
43 100

72 16.2 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.01 min

Lab File: VX009591.D

Acq: 15 May 2019 19:31

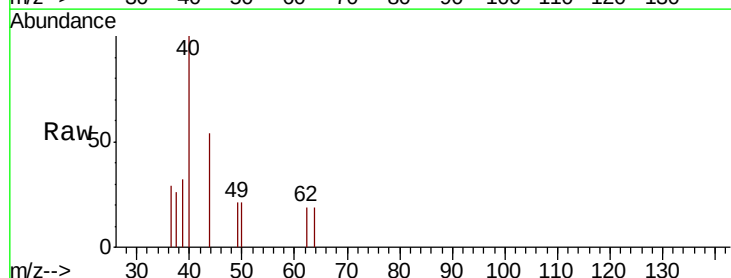
Tgt Ion: 49 Resp: 21

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

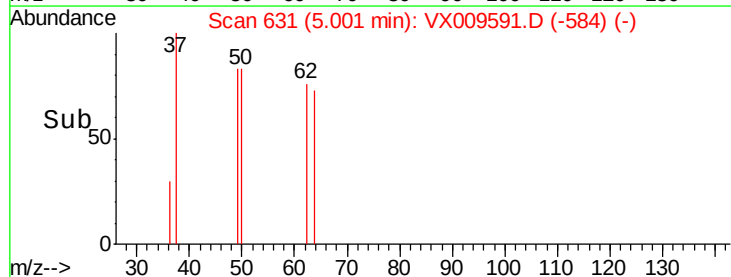
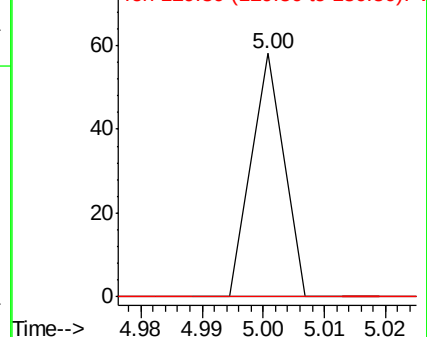
130 0.0 51.2 76.8#

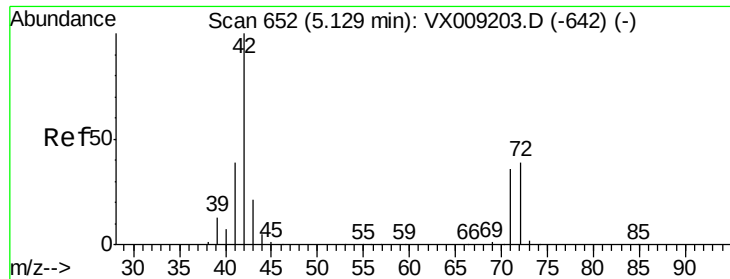


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

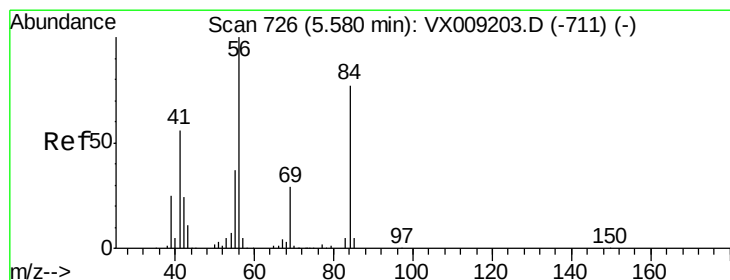
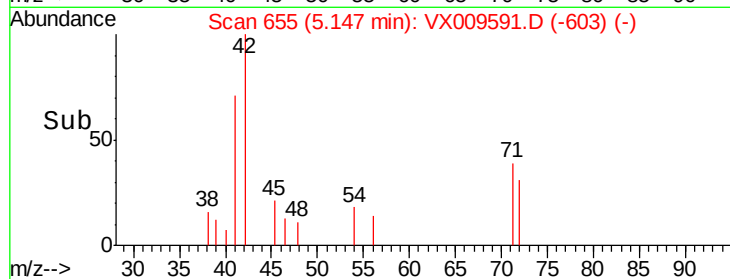
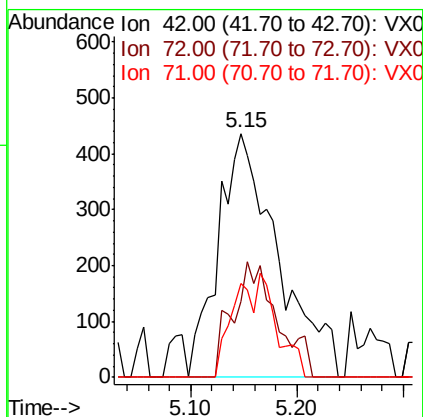
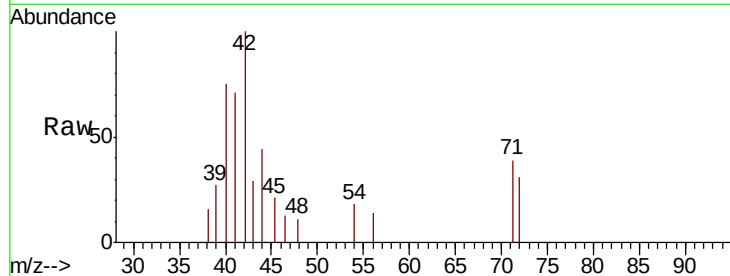




#29
Tetrahydrofuran
Concen: 1.370 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

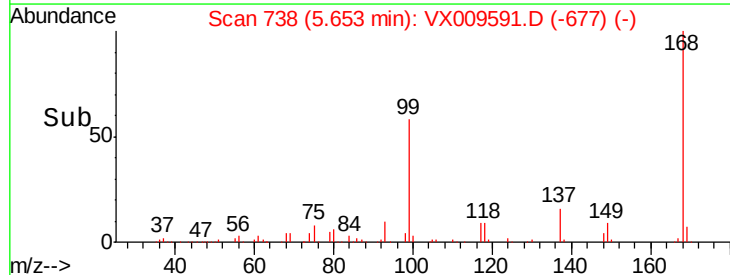
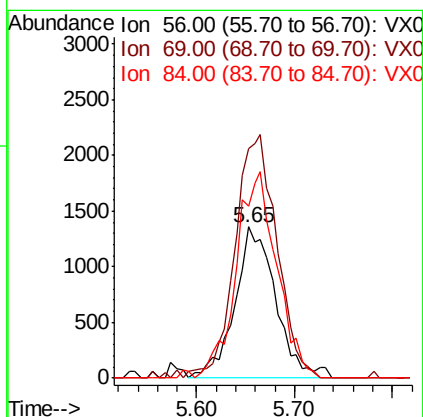
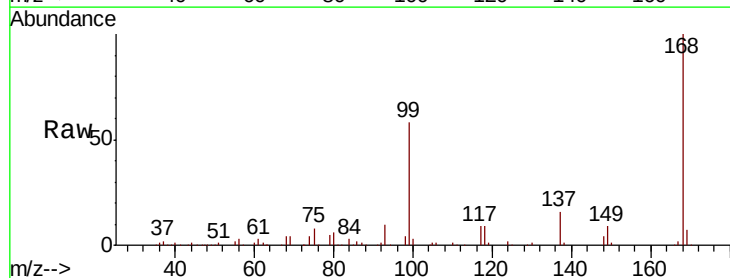
Instrument :
MSVOA_X
ClientSampleId :

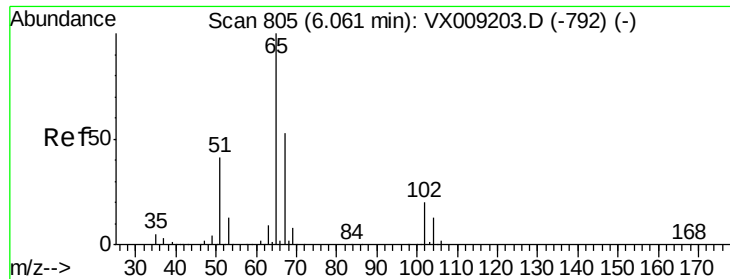
Tot Ion: 42 Resp: 1712
Ion Ratio Lower Upper
42 100
72 35.5 30.4 45.6
71 15.6 28.6 43.0#



#31
Cyclohexane
Concen: 1.144 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion: 56 Resp: 3937
Ion Ratio Lower Upper
56 100
69 152.3 23.4 35.0#
84 114.2 61.9 92.9#

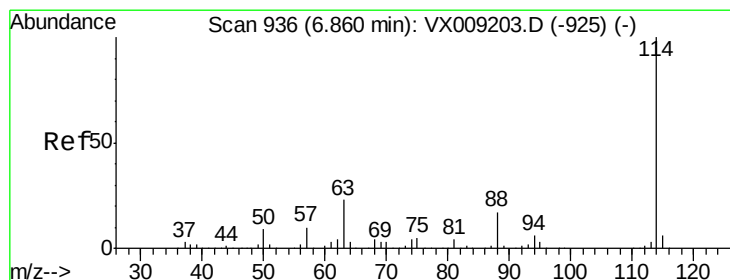
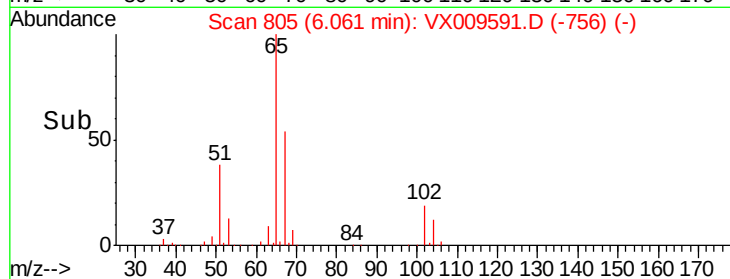
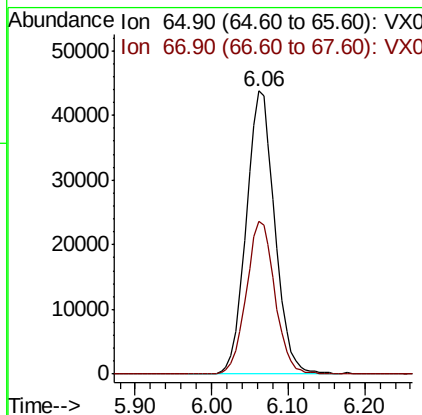
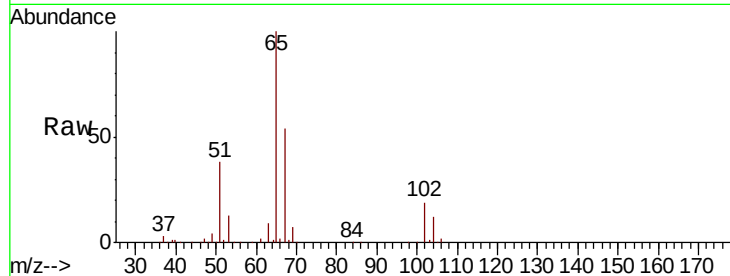




#33
 1,2-Dichloroethane-d4
 Concen: 48.781 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

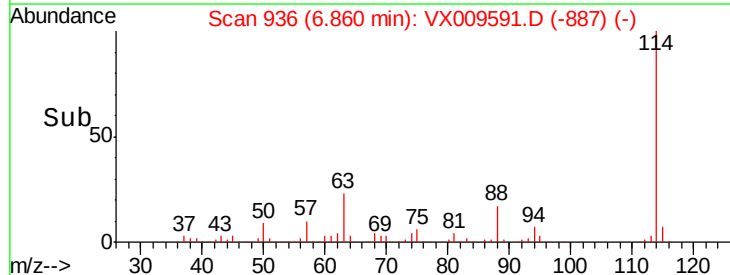
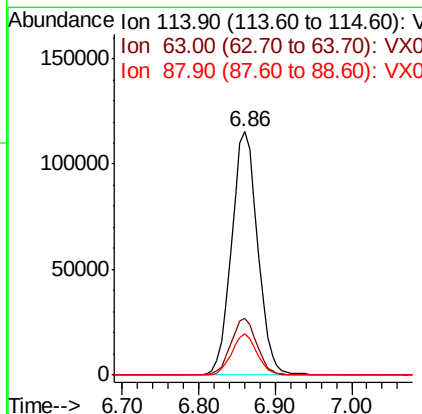
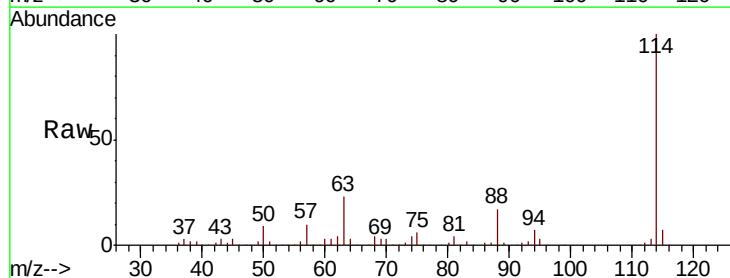
Instrument :
 MSVOA_X
 ClientSampleId :

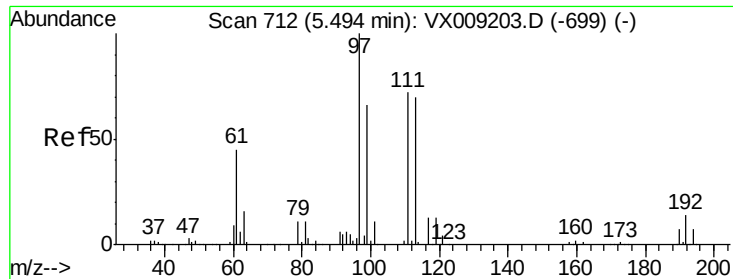
Tot Ion: 65 Resp: 113547
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

Tgt Ion: 114 Resp: 273037
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.6
 88 17.1 0.0 33.2

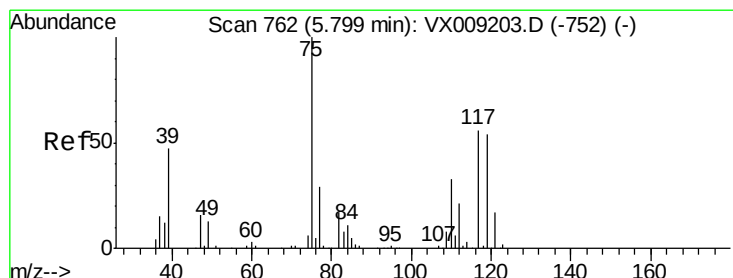
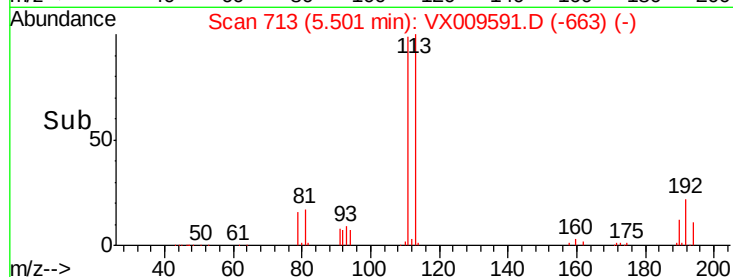
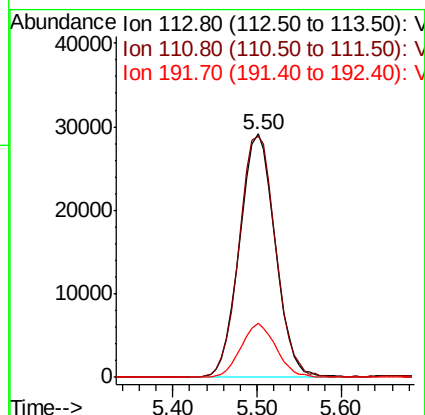
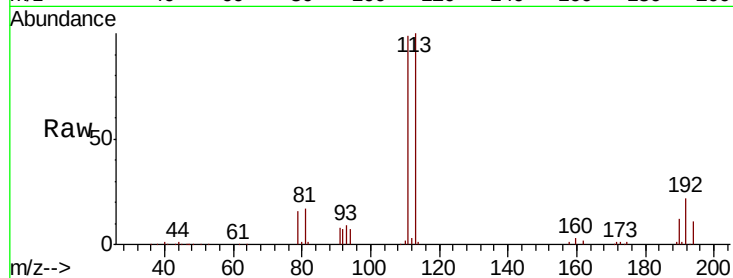




#35
 Dibromofluoromethane
 Concen: 48.570 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

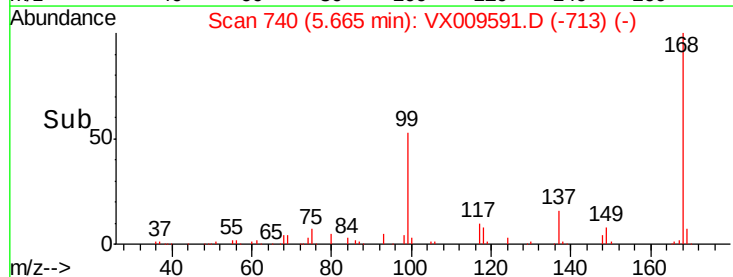
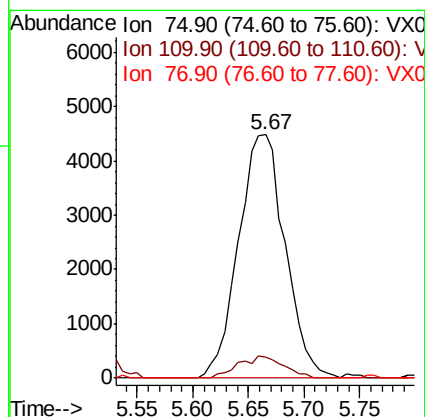
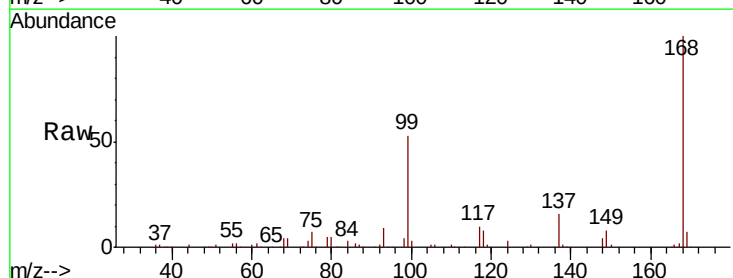
Instrument :
 MSVOA_X
 ClientSampleId :

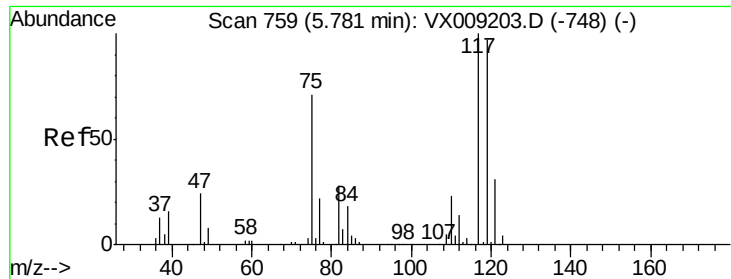
Tot Ion:113 Resp: 83367
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.8 124.2
 192 21.8 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.131 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

Tgt Ion: 75 Resp: 13018
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.9 50.6#
 77 0.0 24.8 37.2#

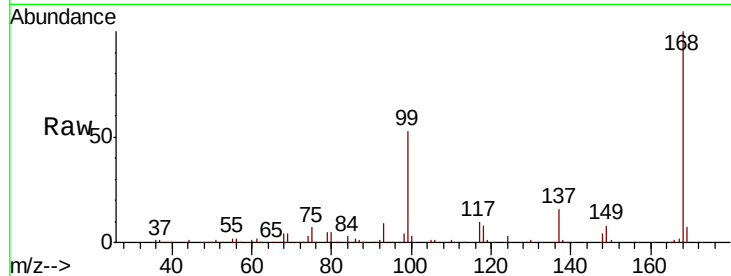




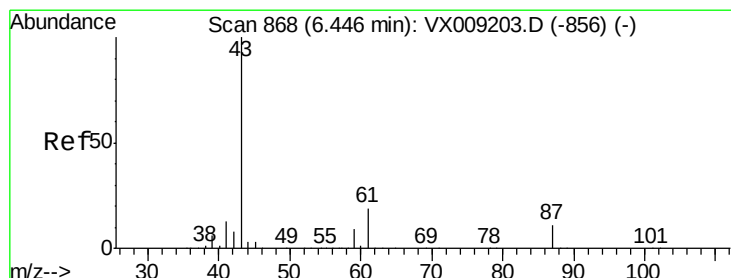
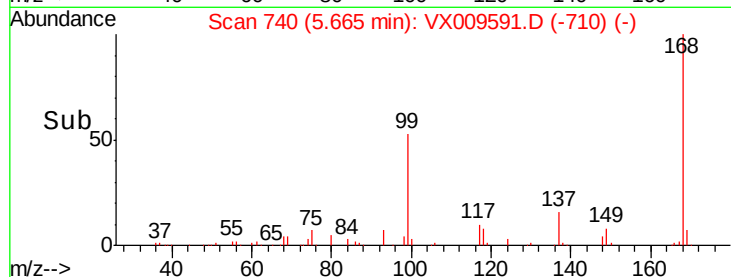
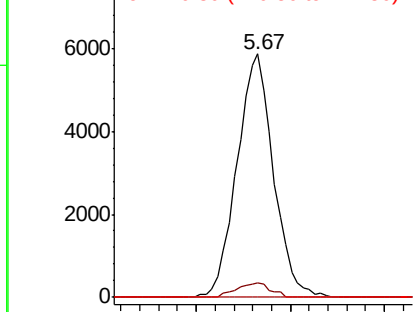
#38
Carbon Tetrachloride
Concen: 6.873 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 15845
Ion Ratio Lower Upper
117 100
119 5.9 77.5 116.3#
121 0.0 24.7 37.1#

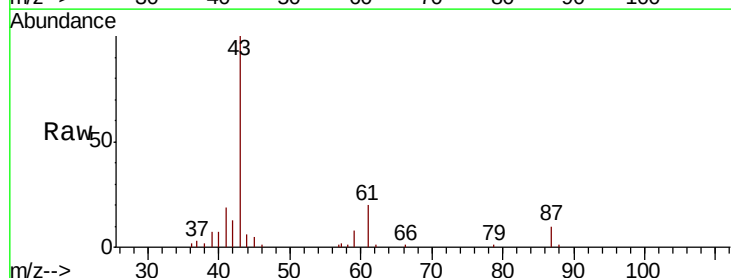


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

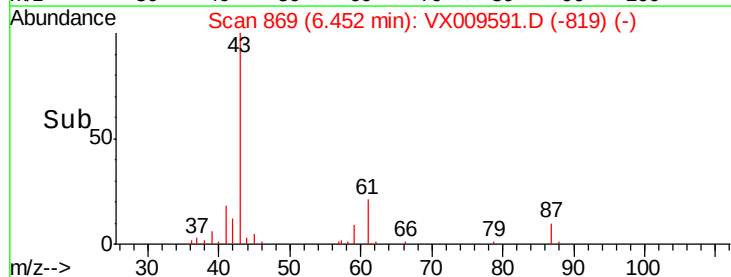
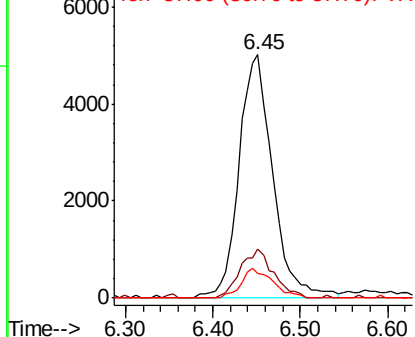


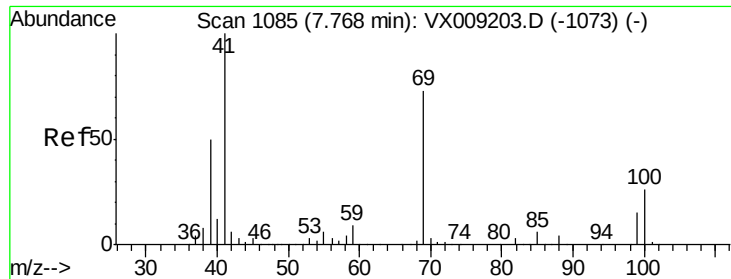
#43
Isopropyl Acetate
Concen: 2.379 ug/l
RT: 6.45 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion: 43 Resp: 13454
Ion Ratio Lower Upper
43 100
61 19.5 15.1 22.7
87 11.3 9.0 13.6



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

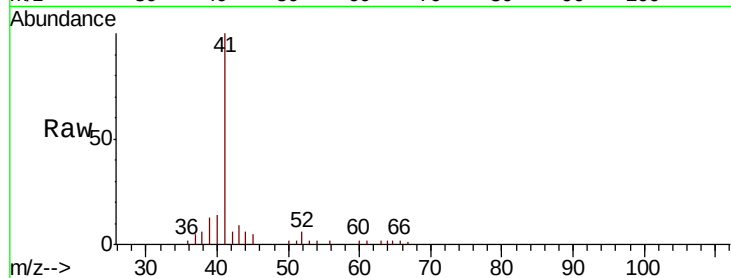




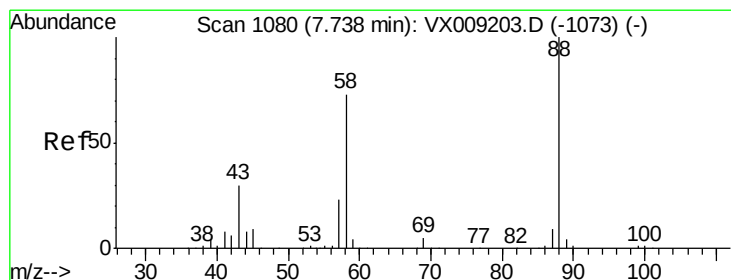
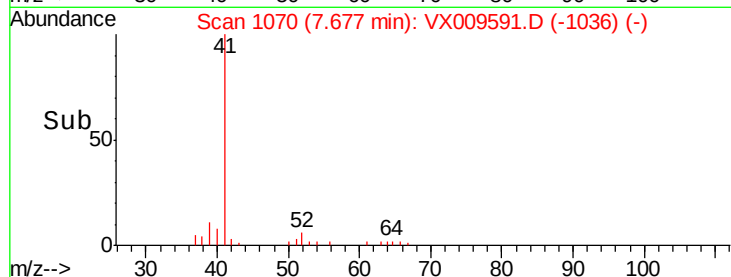
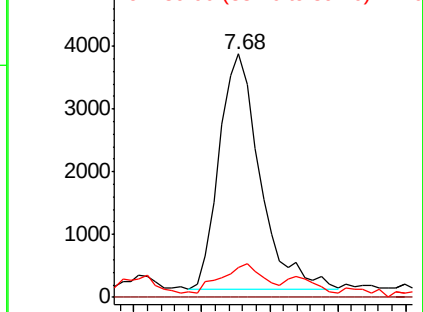
#48
Methvl methacrylate
Concen: 2.792 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 41 Resp: 7833
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 0.0 40.4 60.6#

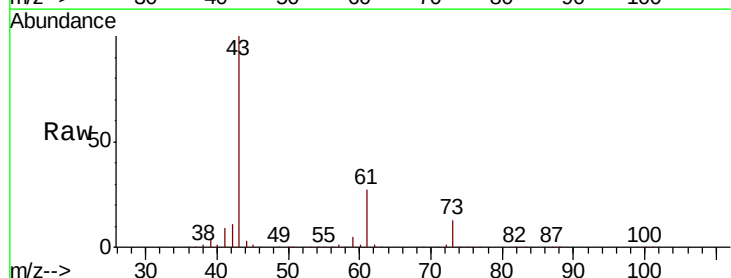


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

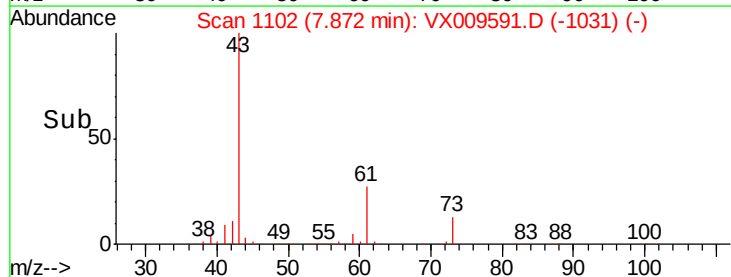
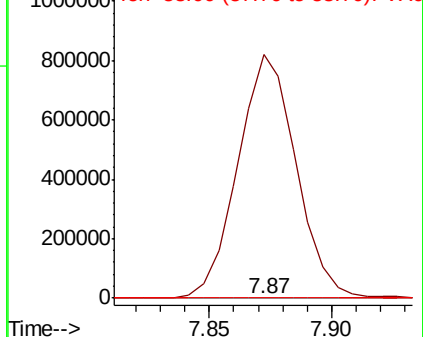


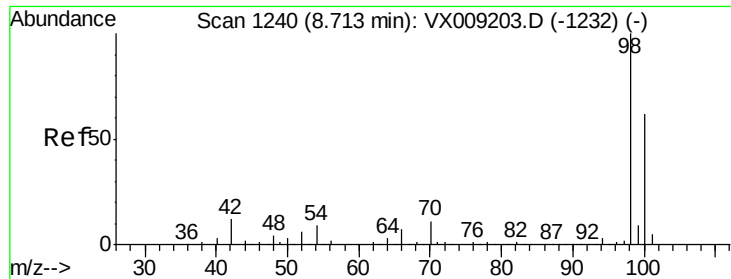
#49
1,4-Dioxane
Concen: 4.095 ug/l
RT: 7.87 min Scan# 1102
Delta R.T. 0.13 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion: 88 Resp: 233
Ion Ratio Lower Upper
88 100
43 589330.5 28.6 42.8#
58 2269.5 61.7 92.5#



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

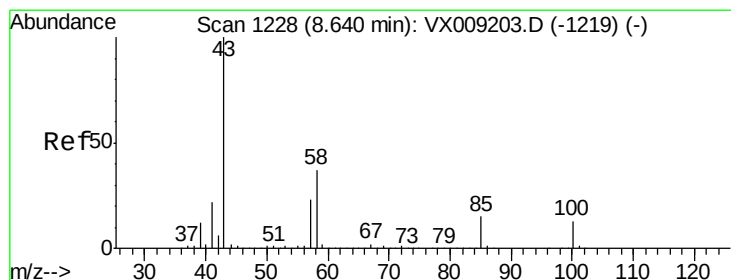
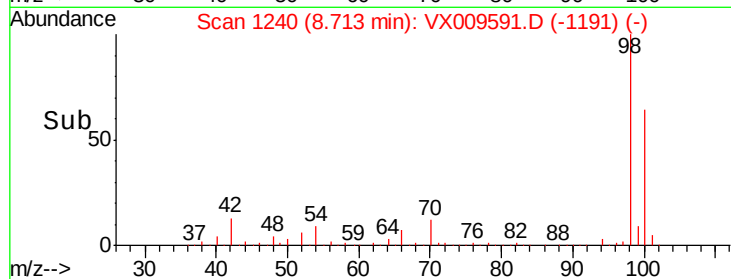
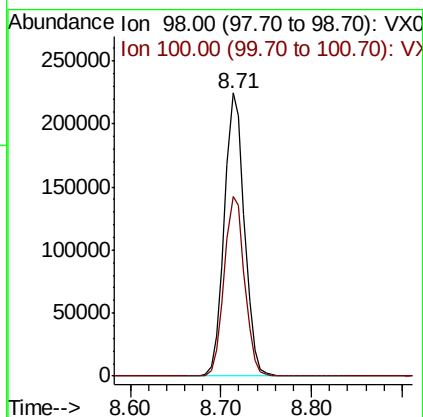
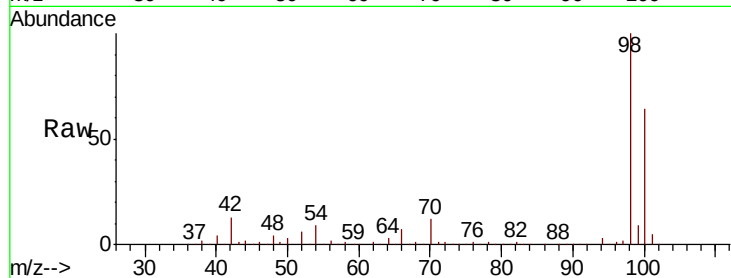




#50
Toluene-d8
Concen: 50.053 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

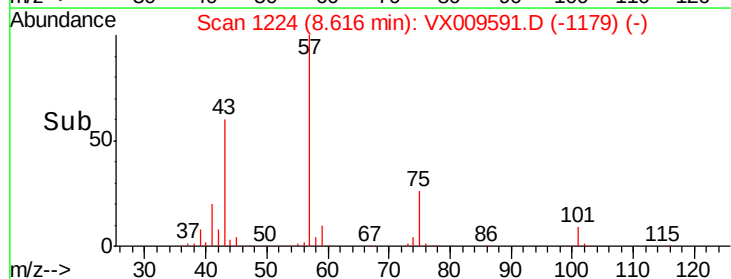
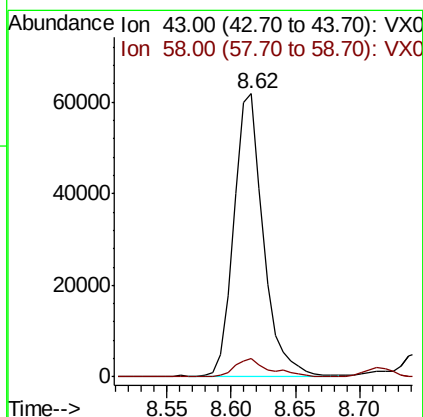
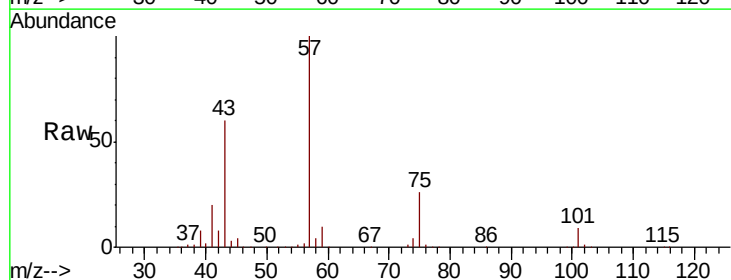
Instrument :
MSVOA_X
ClientSampled :

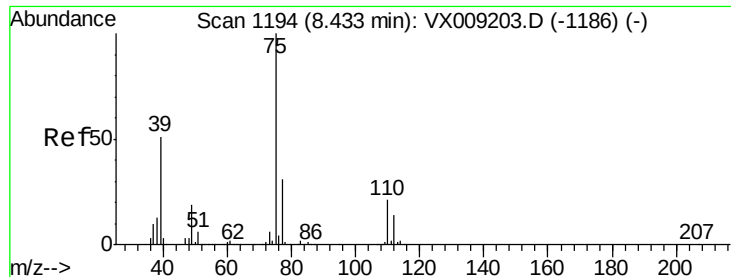
Tot Ion: 98 Resp: 346846
Ion Ratio Lower Upper
98 100
100 64.8 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 26.448 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.02 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion: 43 Resp: 97757
Ion Ratio Lower Upper
43 100
58 7.9 29.5 44.3#





#54

cis-1,3-Dichloropropene

Concen: 13.010 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX009591.D

Acq: 15 May 2019 19:31

Instrument :

MSVOA_X

ClientSampleId :

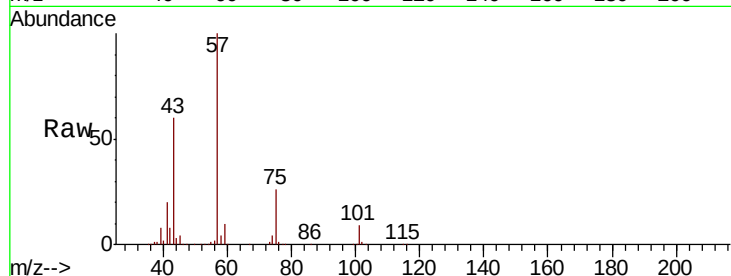
Tot Ion: 75 Resp: 41874

Ion Ratio Lower Upper

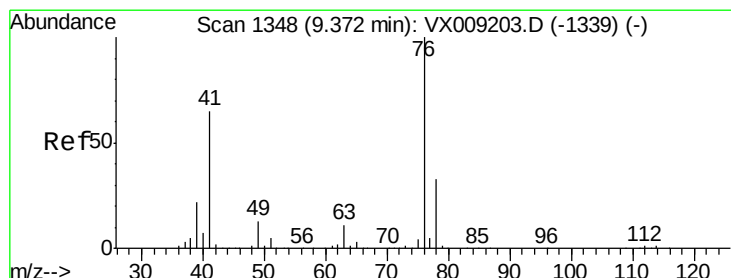
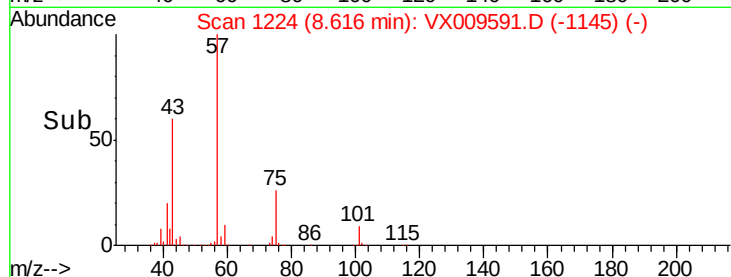
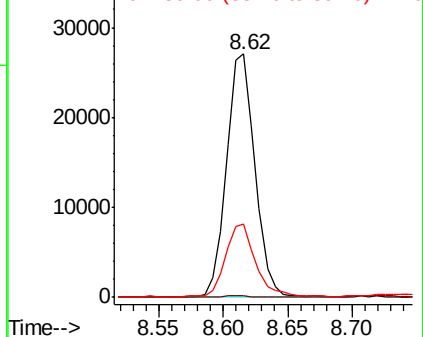
75 100

77 0.6 24.6 36.8#

39 29.6 40.6 60.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.959 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX009591.D

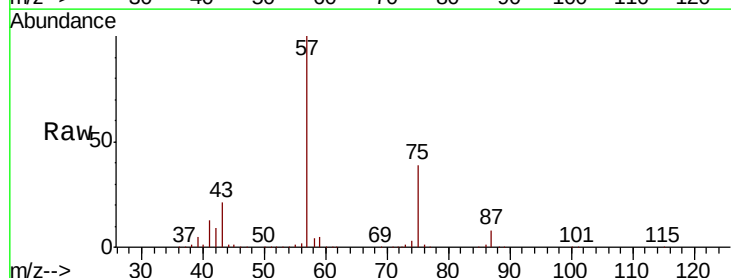
Acq: 15 May 2019 19:31

Tgt Ion: 76 Resp: 10140

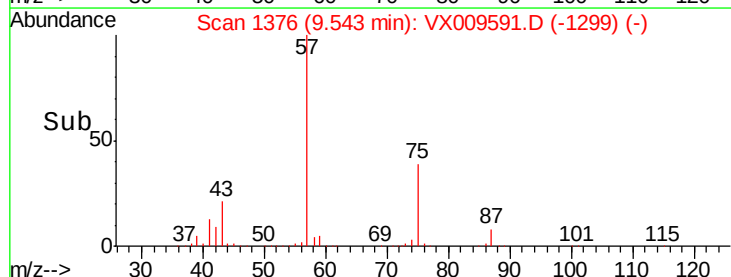
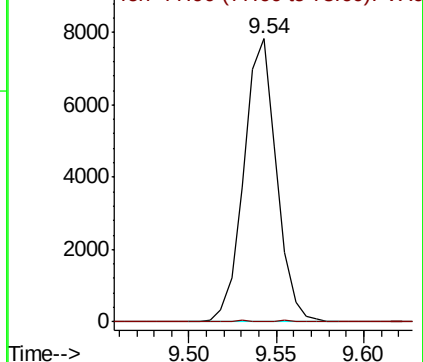
Ion Ratio Lower Upper

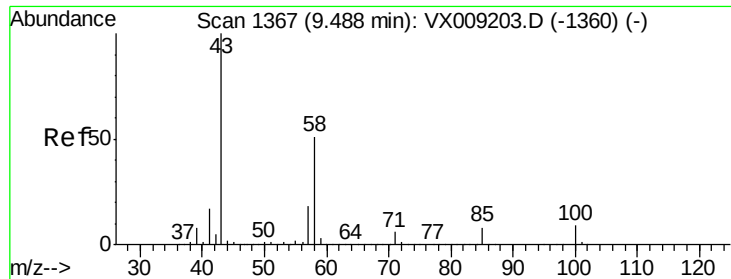
76 100

78 0.2 25.5 38.3#



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

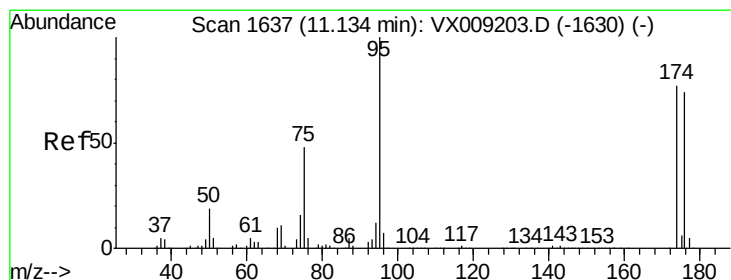
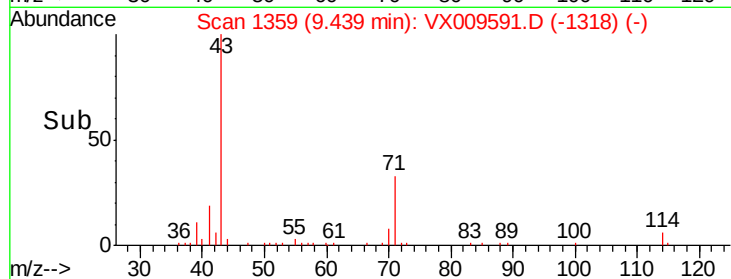
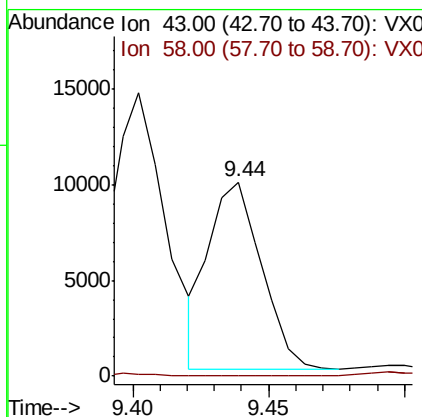
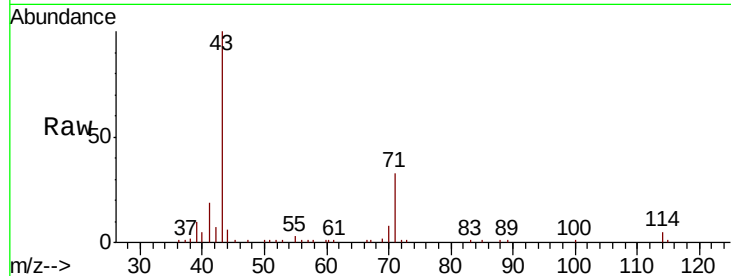




#59
2-Hexanone
Concen: 4.520 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.05 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

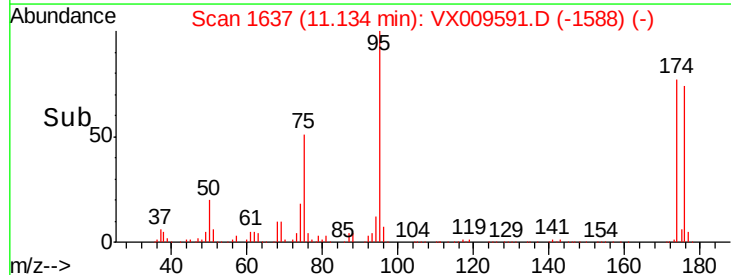
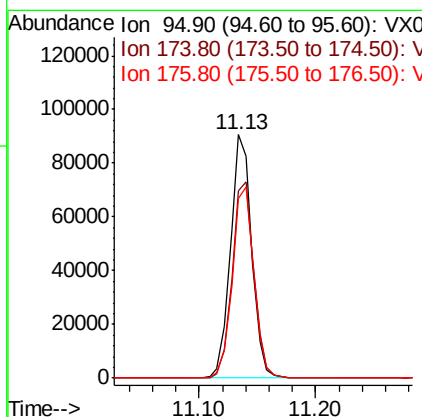
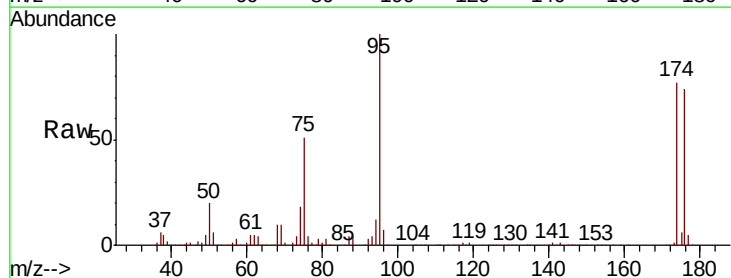
Instrument :
MSVOA_X
ClientSampleId :

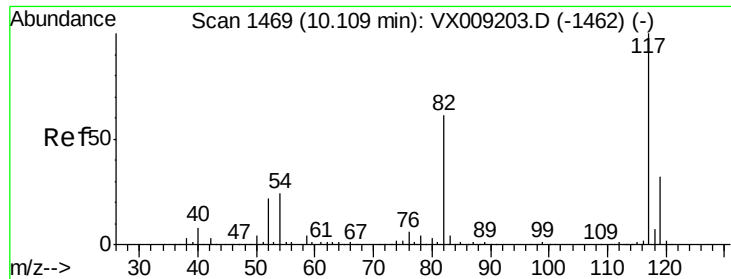
Tot Ion: 43 Resp: 13122
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.7#



#62
4-Bromofluorobenzene
Concen: 45.556 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion: 95 Resp: 114707
Ion Ratio Lower Upper
95 100
174 82.7 0.0 161.6
176 80.0 0.0 159.2

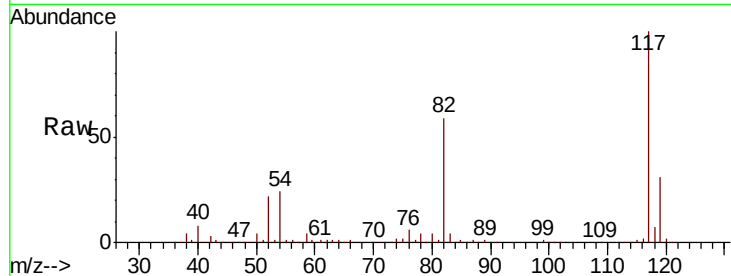




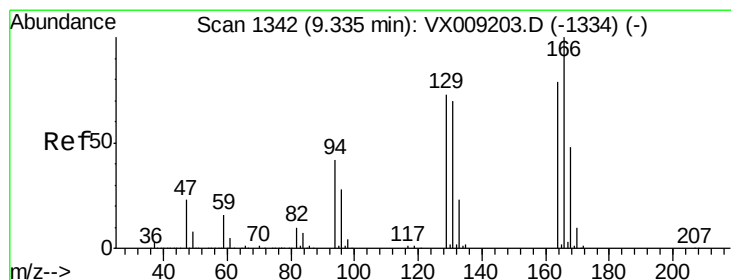
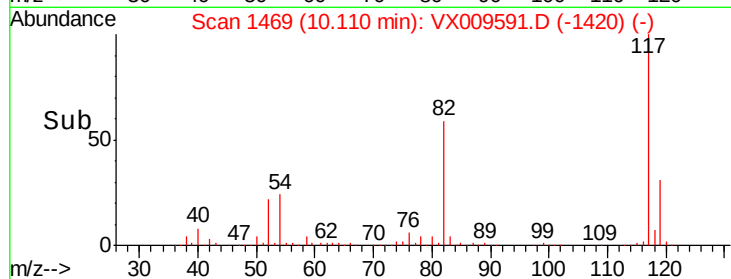
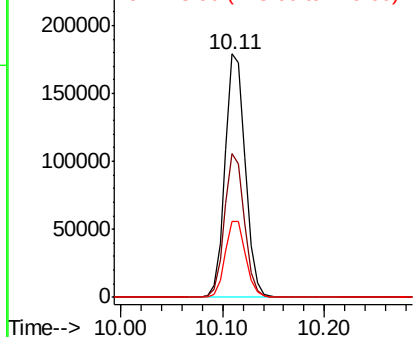
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 244174
Ion Ratio Lower Upper
117 100
82 59.1 48.8 73.2
119 31.4 25.8 38.6

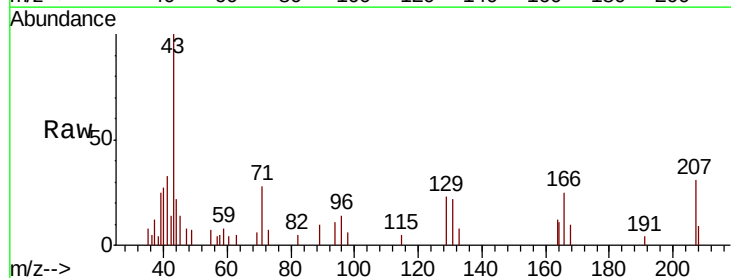


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

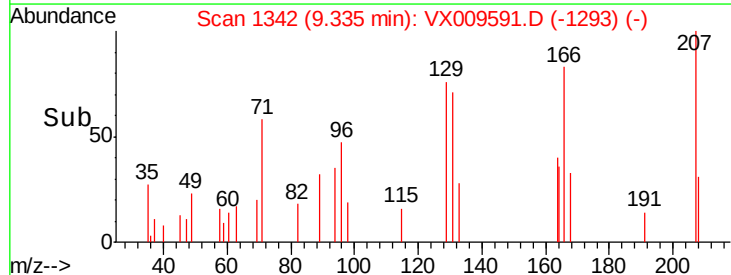
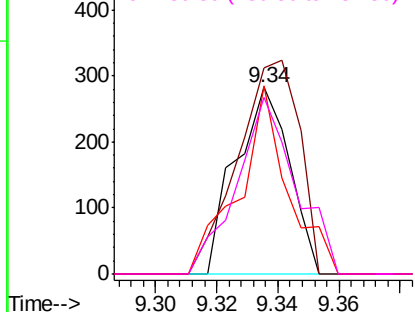


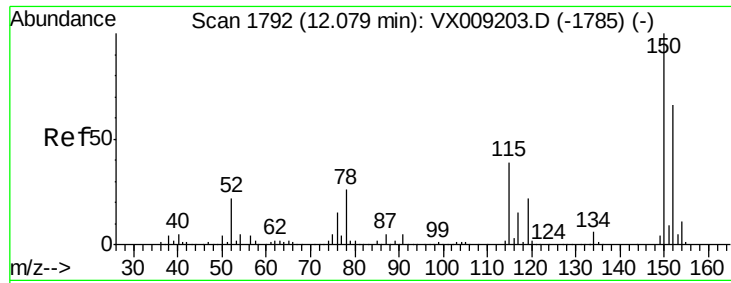
#64
Tetrachloroethene
Concen: 0.205 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009591.D
Acq: 15 May 2019 19:31

Tgt Ion:164 Resp: 344
Ion Ratio Lower Upper
164 100
166 110.6 101.2 151.8
129 101.1 74.3 111.5
131 94.7 71.0 106.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

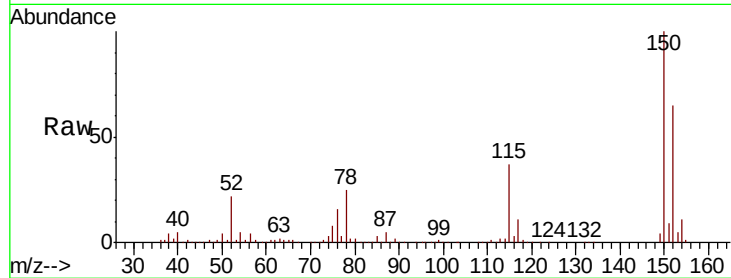




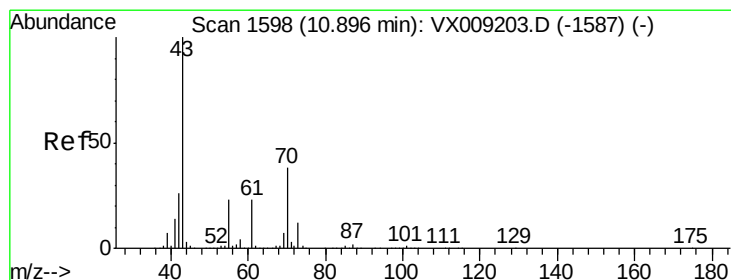
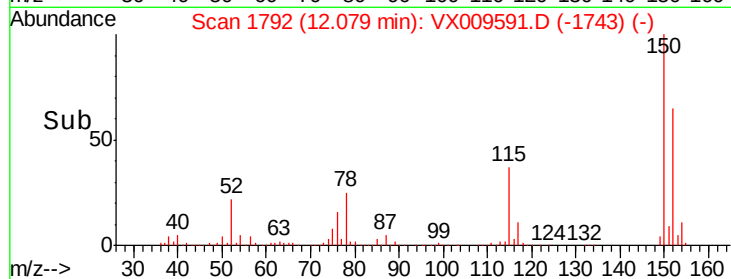
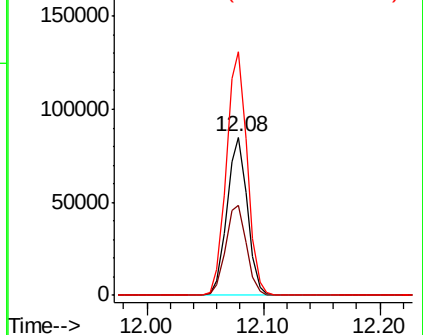
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:152 Resp: 102982
 Ion Ratio Lower Upper
 152 100
 115 58.5 41.2 123.6
 150 157.0 0.0 346.4

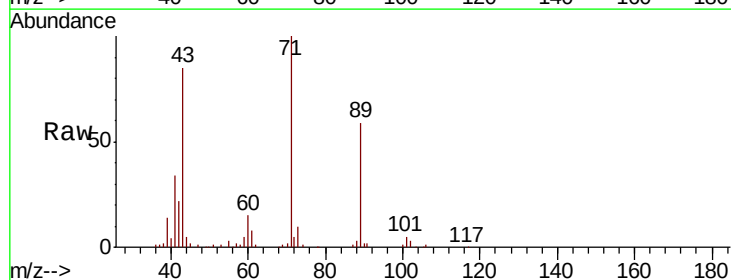


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

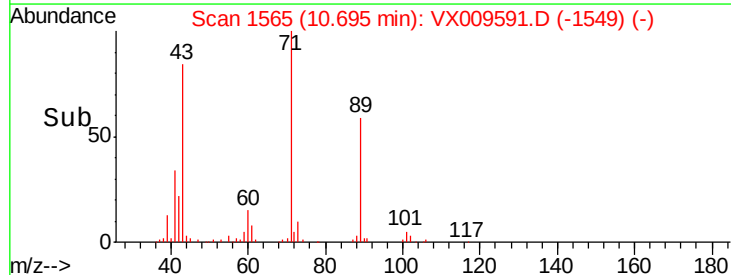
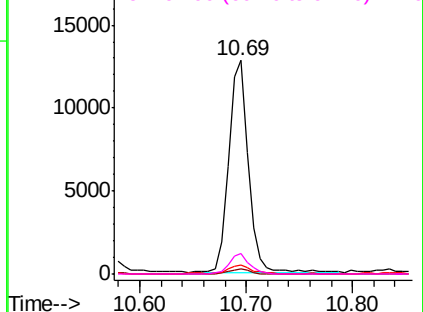


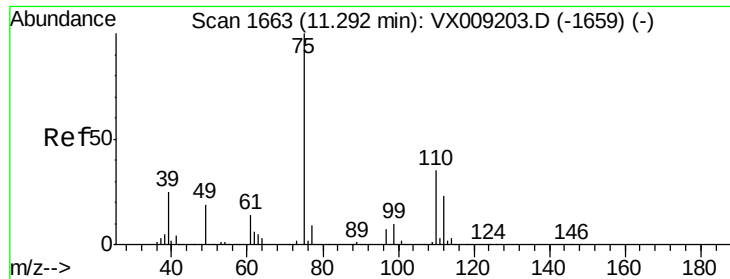
#74
 N-ethyl acetate
 Concen: 3.780 ug/l
 RT: 10.69 min Scan# 1565
 Delta R.T. -0.20 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

Tgt Ion: 43 Resp: 16504
 Ion Ratio Lower Upper
 43 100
 70 2.4 30.0 45.0#
 55 5.1 17.9 26.9#
 61 9.8 18.4 27.6#



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

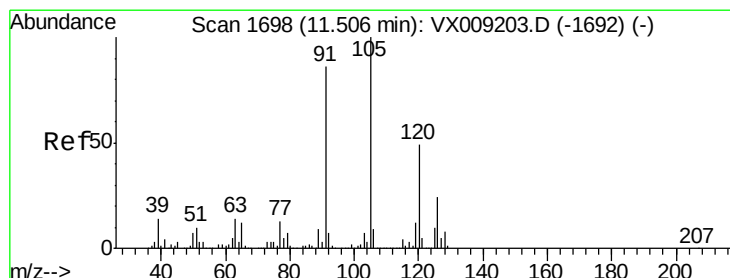
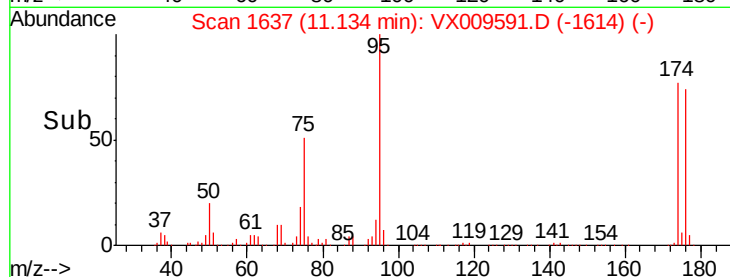
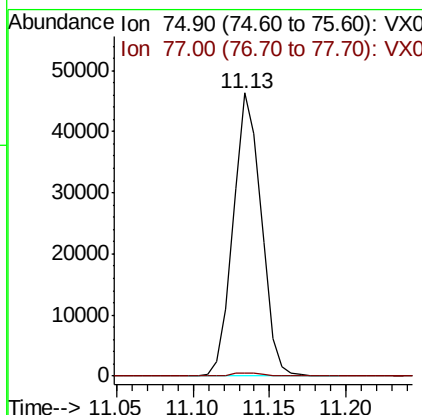
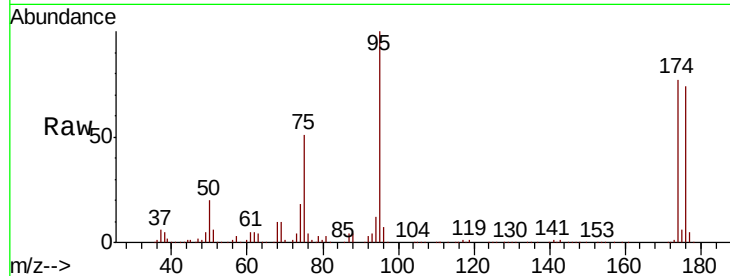




#76
 1,2,3-Trichloropropane
 Concen: 24.664 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

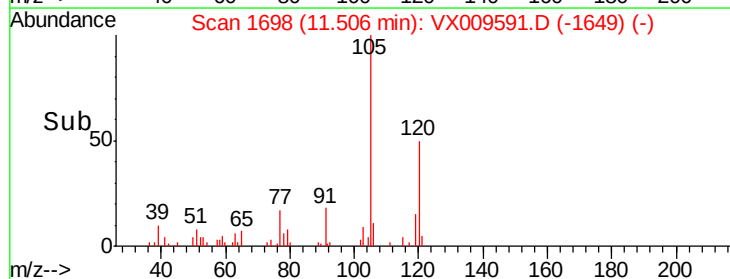
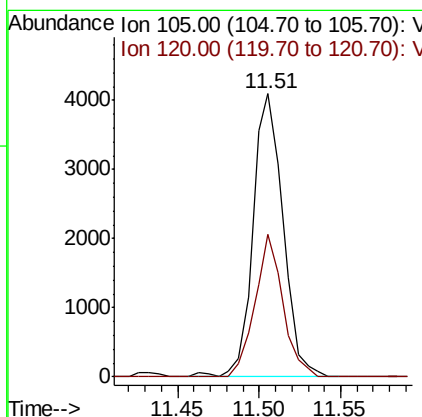
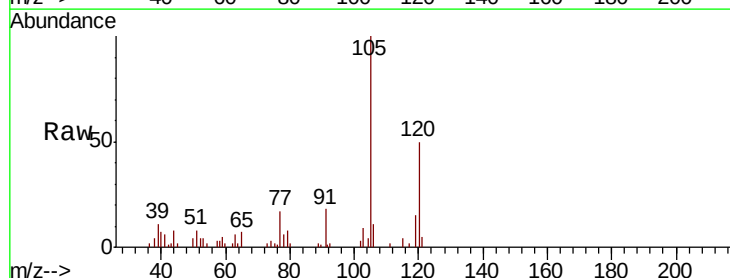
Instrument :
 MSVOA_X
 ClientSampled :

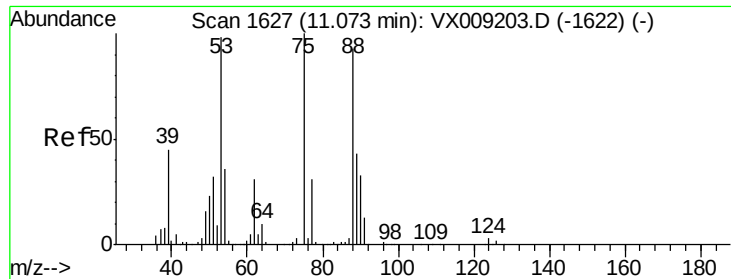
Tot Ion: 75 Resp: 58918
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.832 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX009591.D
 Acq: 15 May 2019 19:31

Tgt Ion:105 Resp: 5249
 Ion Ratio Lower Upper
 105 100
 120 46.6 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 63.107 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009591.D

Acq: 15 May 2019 19:31

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 58918

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

