

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010919\  
 Data File : VX006970.D  
 Acq On : 09 Jan 2019 17:27  
 Operator : JC/MD  
 Sample : K1006-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jan 10 00:57:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	635705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	986061	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	917708	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	448152	50.00	ug/l	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	339436	51.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.18%	
35) Dibromofluoromethane	5.50	113	300315	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	
50) Toluene-d8	8.71	98	1171540	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.13	95	418573	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	

## Target Compounds

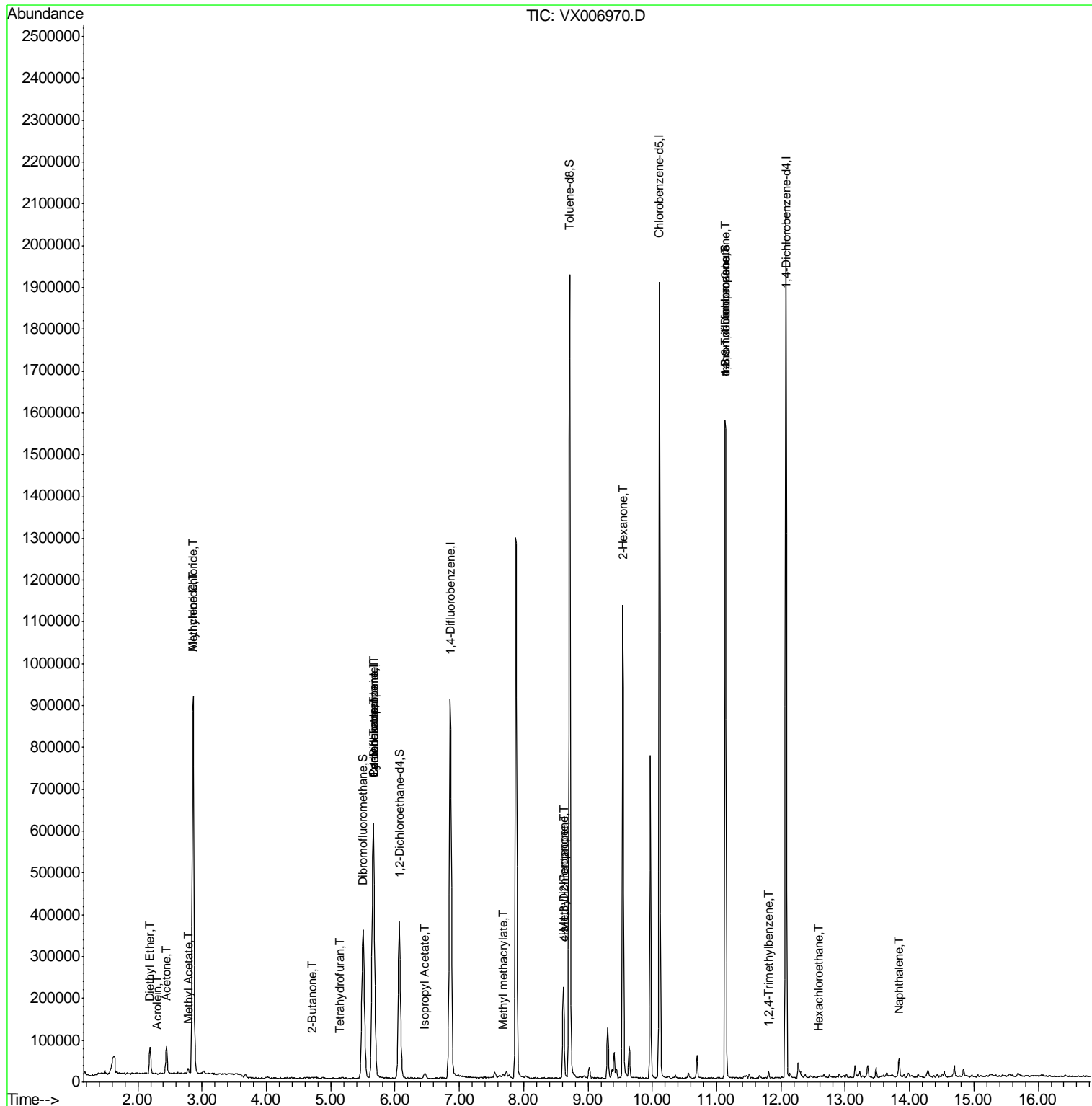
						Qvalue
8) Diethyl Ether	2.19	74	23473	5.586	ug/l	98
13) Acrolein	2.29	56	804	4.259	ug/l #	35
14) Allyl chloride	2.86	41	14819	1.480	ug/l #	28
16) Acetone	2.45	43	69846	21.266	ug/l	96
18) Methyl Acetate	2.78	43	15303	1.609	ug/l	94
20) Methylene Chloride	2.86	84	425554	68.329	ug/l	98
25) 2-Butanone	4.70	43	5213	1.109	ug/l	97
29) Tetrahydrofuran	5.15	42	2365	0.774	ug/l #	53
31) Cyclohexane	5.66	56	10556	1.127	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	40140	4.682	ug/l #	48
38) Carbon Tetrachloride	5.67	117	57304	6.644	ug/l #	14
43) Isopropyl Acetate	6.47	43	17882	1.233	ug/l	99
48) Methyl methacrylate	7.68	41	11816	1.587	ug/l #	13
49) 1,4-Dioxane	7.76	88	219	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	74236	7.968	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	37796	3.923	ug/l #	60
59) 2-Hexanone	9.54	43	124599	17.549	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	197587	21.757	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	197587	64.474	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	6935	0.261	ug/l	96
90) Hexachloroethane	12.60	117	609	3.036	ug/l #	10
95) Naphthalene	13.83	128	28435	0.881	ug/l	95

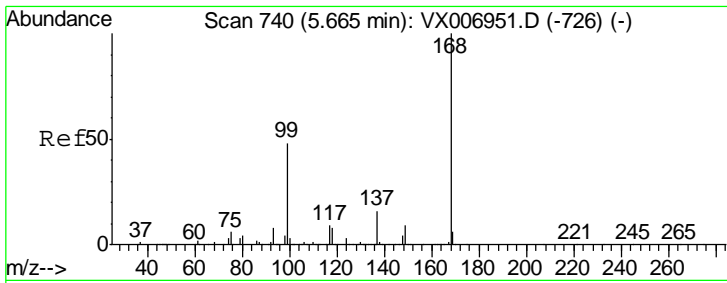
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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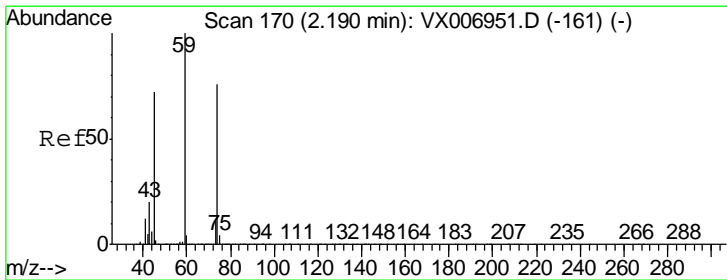
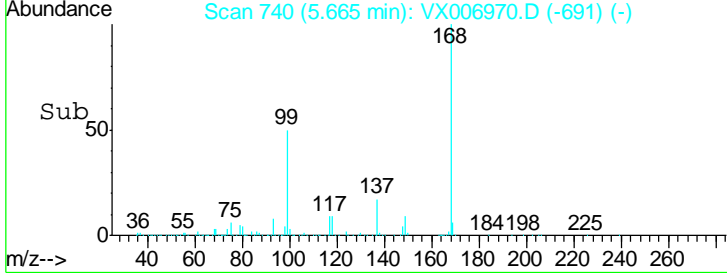
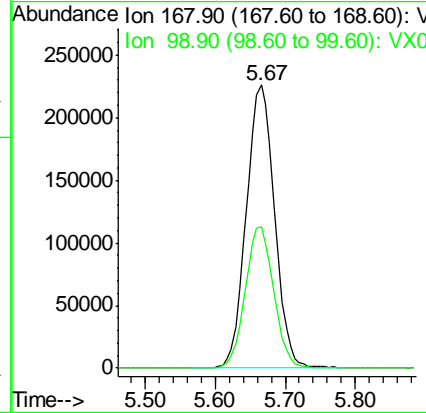
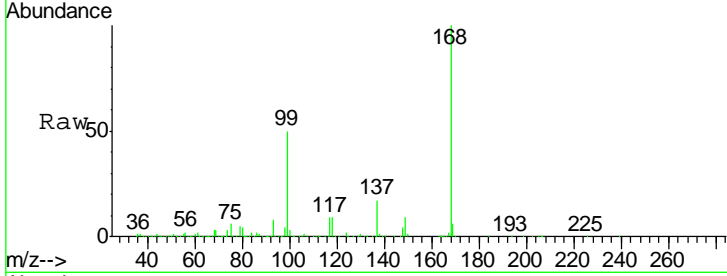




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

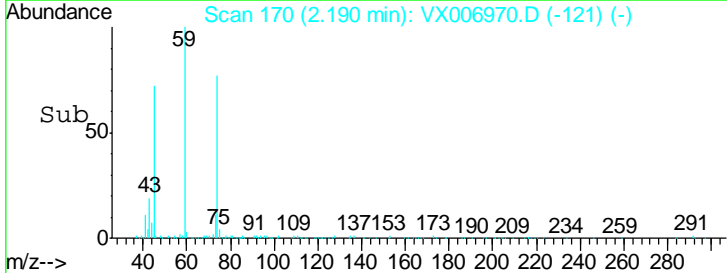
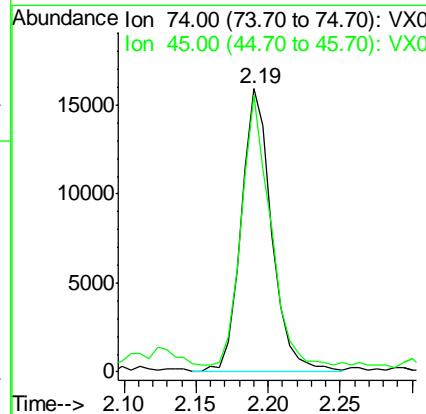
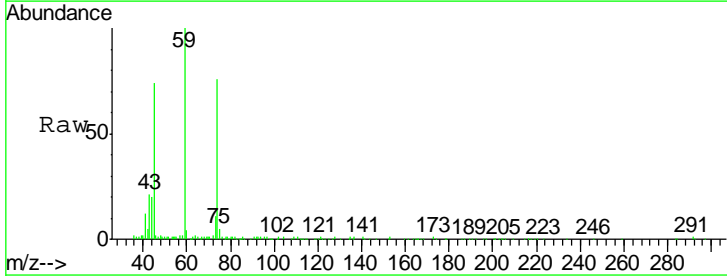
Instrument :  
 MSVOA\_X  
 ClientSampled :

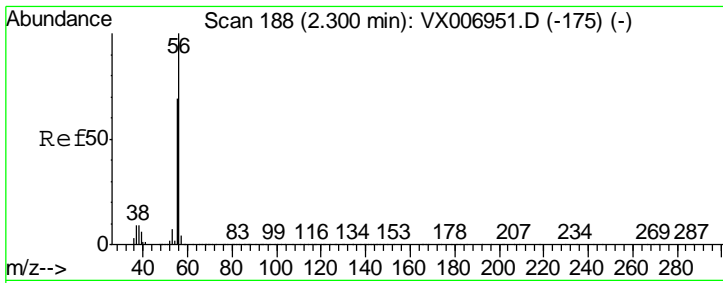
Tgt Ion	Resp	Lower	Upper
168	100		
99	49.8	41.8	62.8



#8  
 Diethyl Ether  
 Concen: 5.586 ug/l  
 RT: 2.19 min Scan# 170  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
74	100		
45	90.3	46.3	138.9

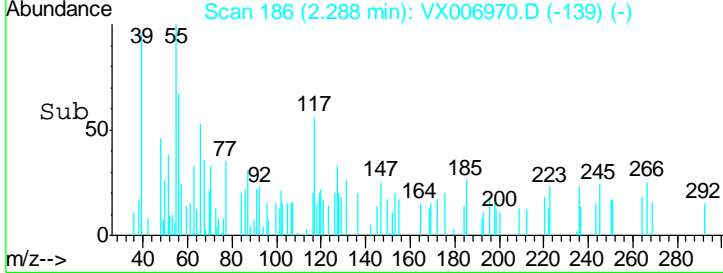
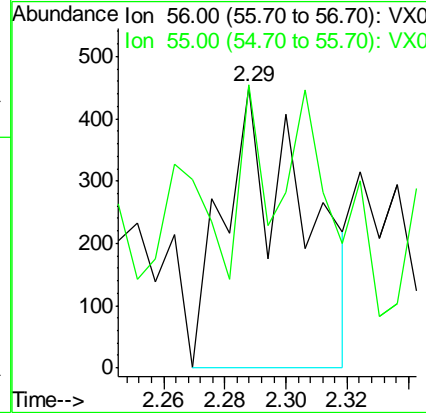
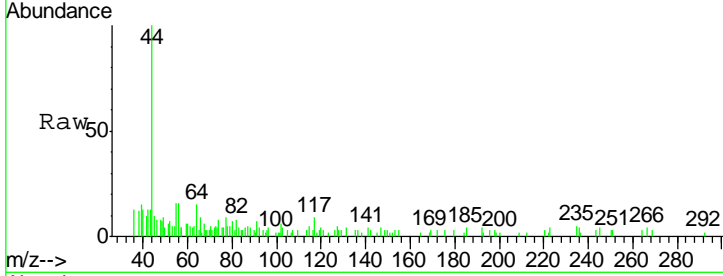




#13  
 Acrolein  
 Concen: 4.259 ug/l  
 RT: 2.29 min Scan# 186  
 Delta R.T. -0.01 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

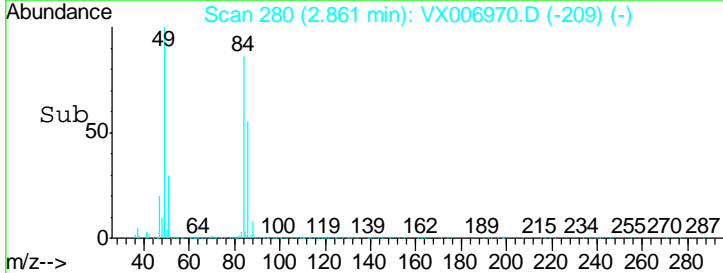
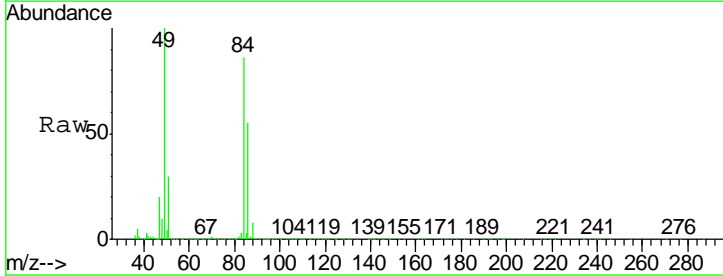
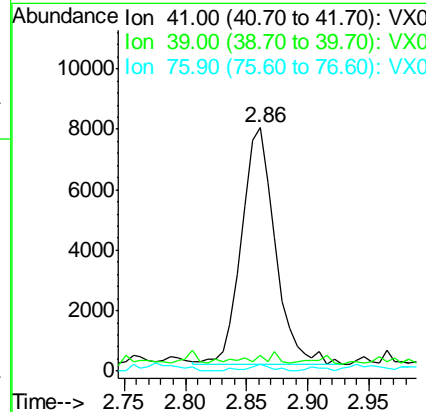
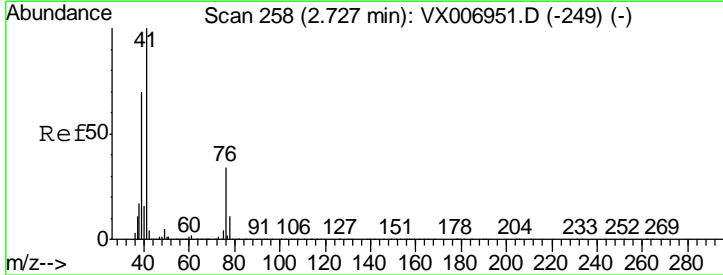
Instrument : MSVOA\_X  
 ClientSampled :

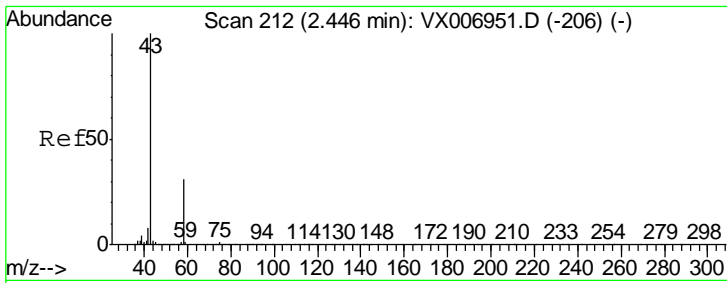
Tgt Ion	Resp	Lower	Upper
56	100		
55	18.2	58.2	87.4#



#14  
 Allyl chloride  
 Concen: 1.480 ug/l  
 RT: 2.86 min Scan# 280  
 Delta R.T. 0.13 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
41	100		
39	2.1	53.6	80.4#
76	2.1	27.4	41.2#

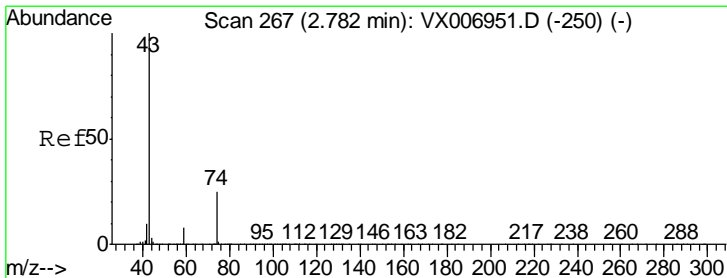
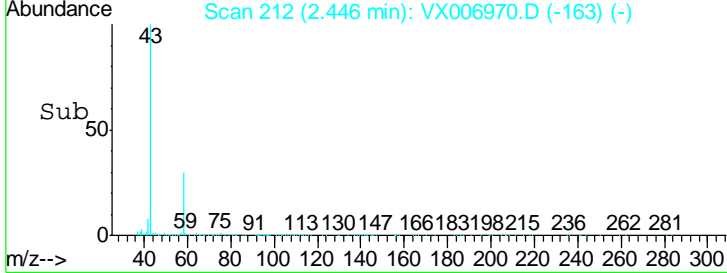
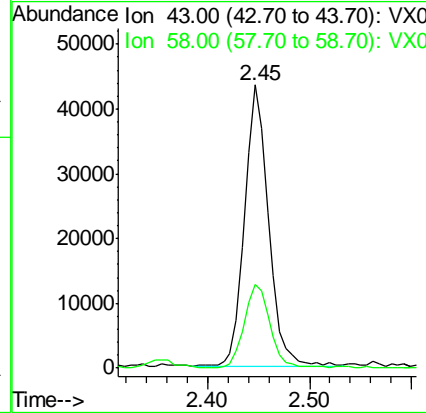
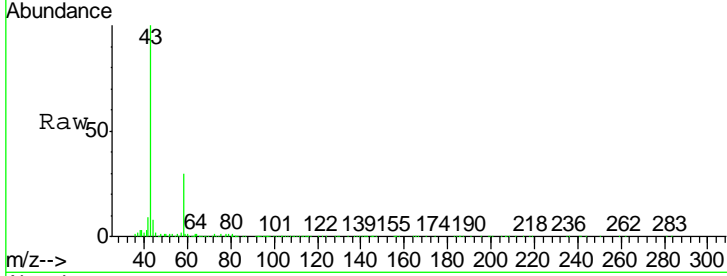




#16  
 Acetone  
 Concen: 21.266 ug/l  
 RT: 2.45 min Scan# 212  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

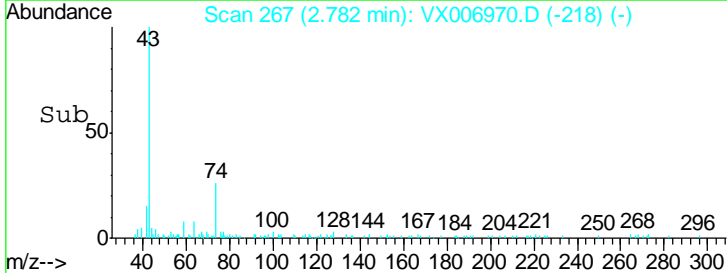
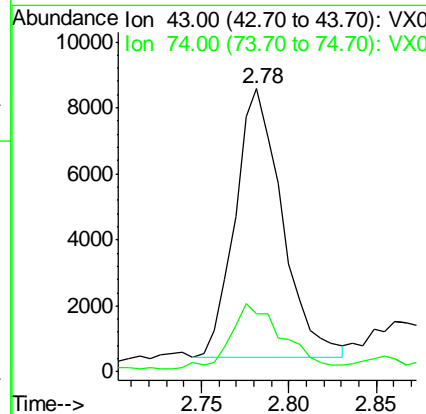
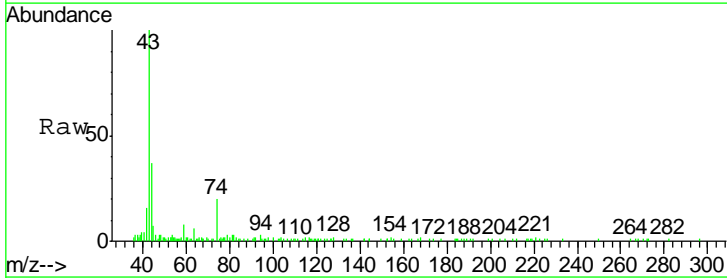
Instrument :  
 MSVOA\_X  
 ClientSampled :

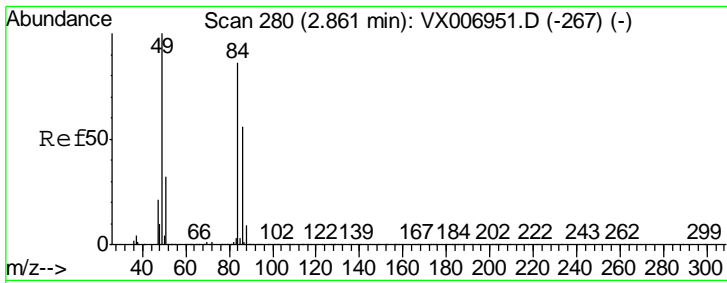
Tgt Ion: 43 Resp: 69846  
 Ion Ratio Lower Upper  
 43 100  
 58 29.1 25.0 37.6



#18  
 Methyl Acetate  
 Concen: 1.609 ug/l  
 RT: 2.78 min Scan# 267  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion: 43 Resp: 15303  
 Ion Ratio Lower Upper  
 43 100  
 74 26.3 18.6 28.0

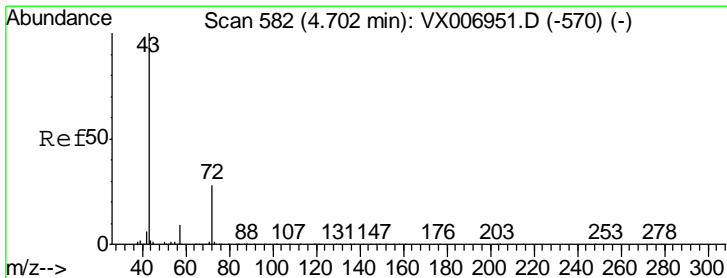
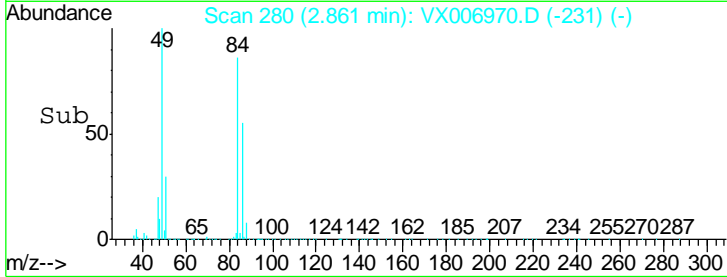
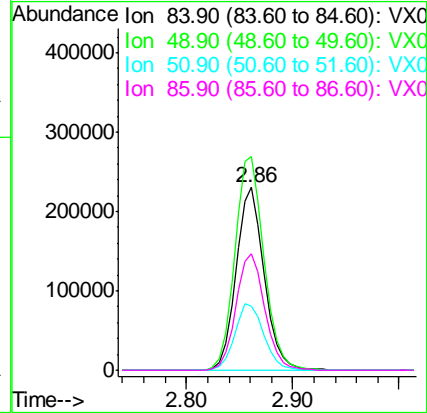
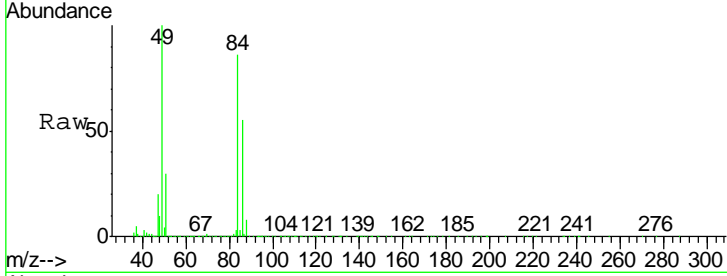




#20  
 Methylene Chloride  
 Concen: 68.329 ug/l  
 RT: 2.86 min Scan# 280  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

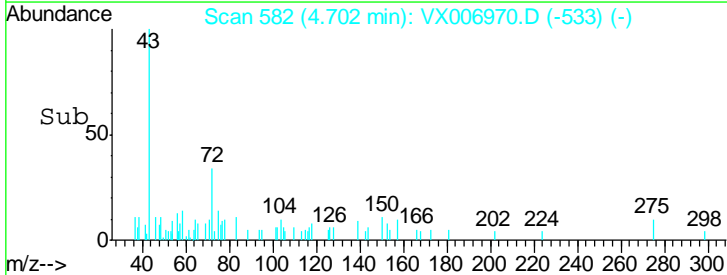
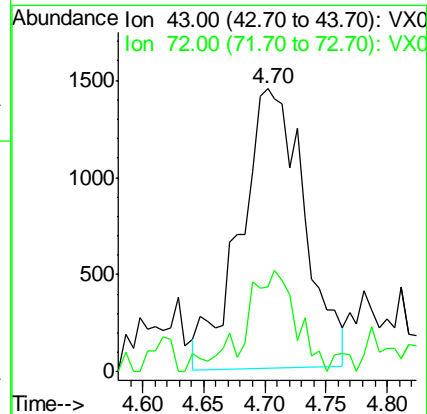
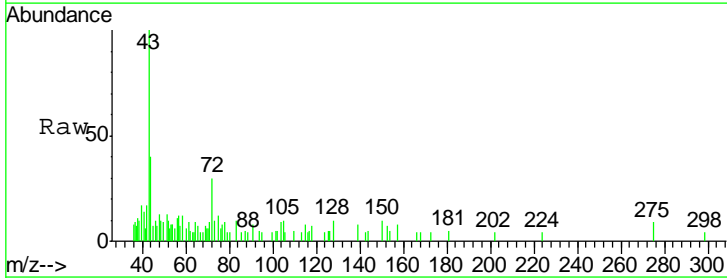
Instrument :  
 MSVOA\_X  
 ClientSampled :

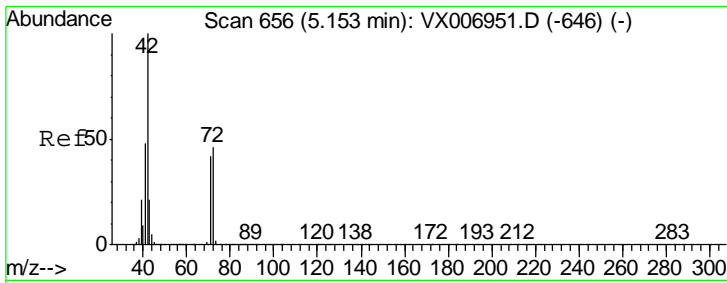
Tgt Ion	Resp	Lower	Upper
84	425554		
49	116.8	91.8	137.6
51	35.1	28.5	42.7
86	63.9	50.2	75.2



#25  
 2-Butanone  
 Concen: 1.109 ug/l  
 RT: 4.70 min Scan# 582  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
43	5213		
72	26.6	22.4	33.6

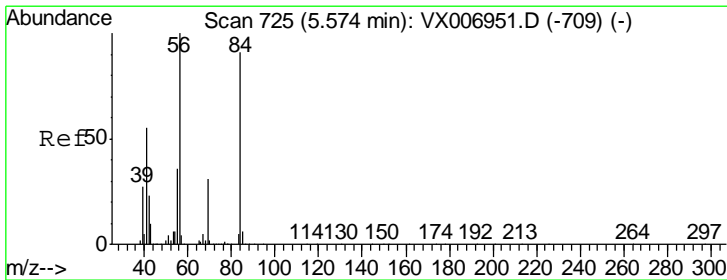
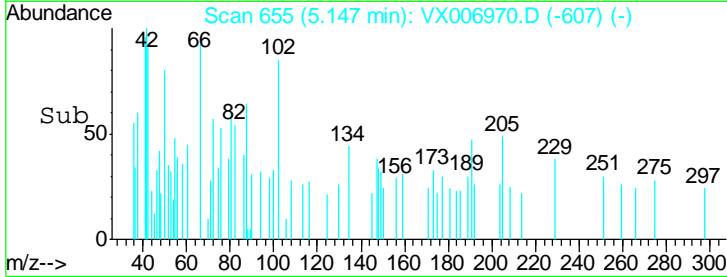
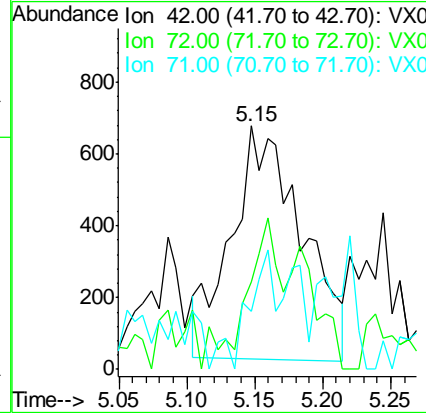
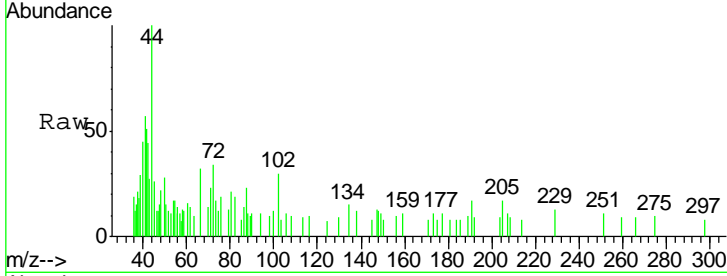




#29  
 Tetrahydrofuran  
 Concen: 0.774 ug/l  
 RT: 5.15 min Scan# 655  
 Delta R.T. -0.01 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

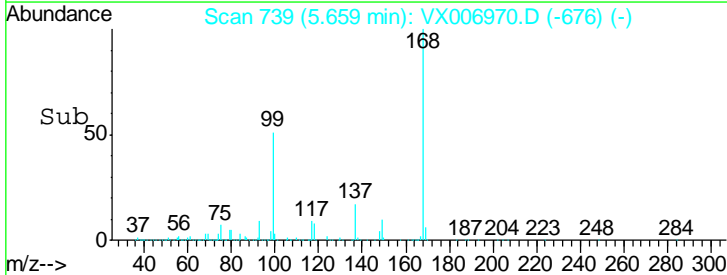
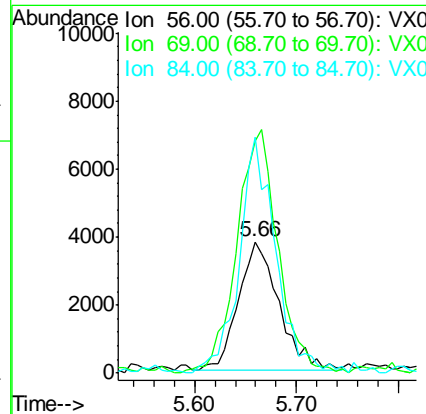
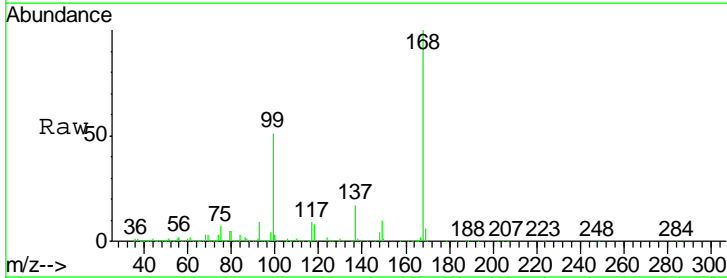
Instrument :  
 MSVOA\_X  
 Client Sampled :

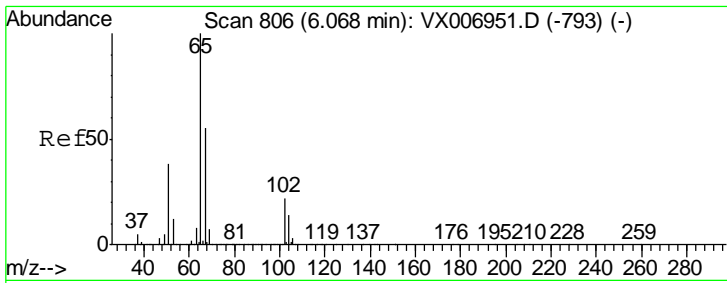
Tgt Ion	Resp	Lower	Upper
42	100		
72	20.8	38.9	58.3#
71	9.8	36.2	54.4#



#31  
 Cyclohexane  
 Concen: 1.127 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. 0.09 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
56	100		
69	177.3	24.4	36.6#
84	184.0	70.0	105.0#

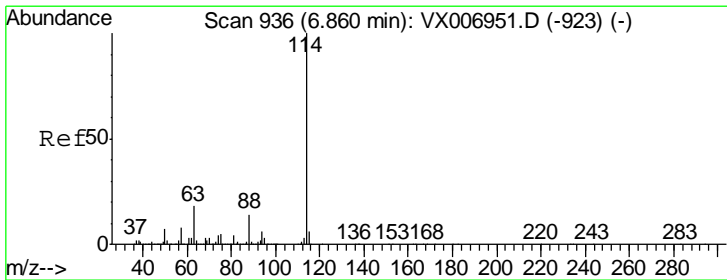
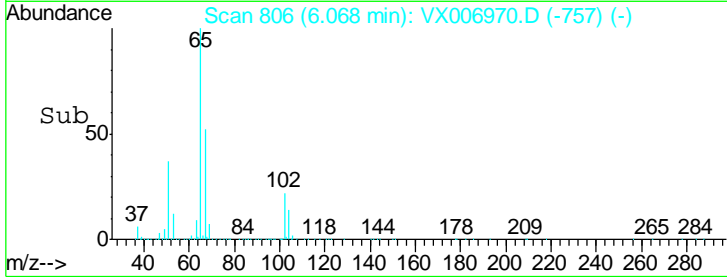
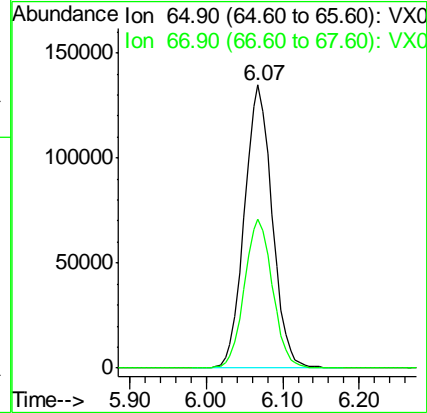
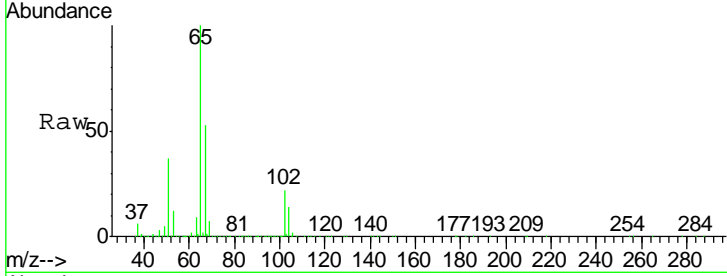




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.092 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

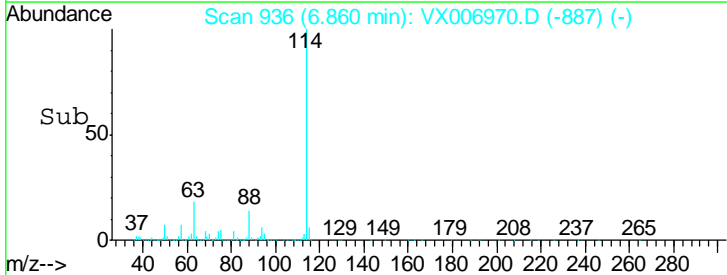
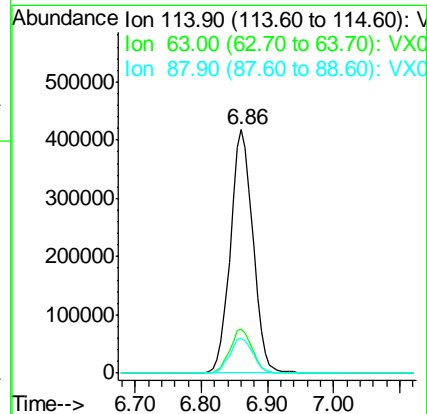
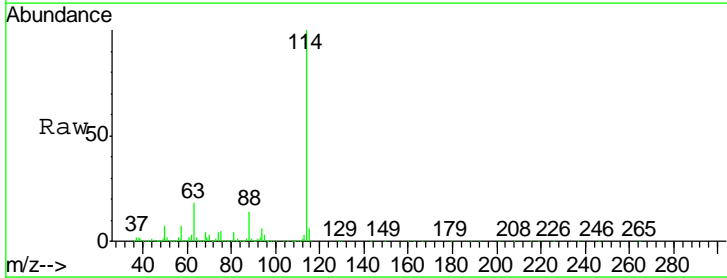
Instrument :  
 MSVOA\_X  
 ClientSampled :

Tgt Ion	Resp	Lower	Upper
65	339436		
67	53.4	0.0	105.0

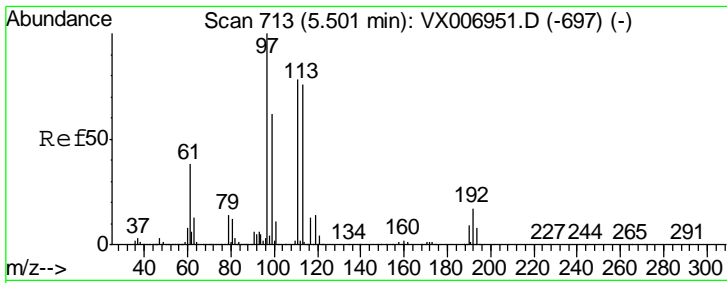


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
114	986061		
63	18.0	0.0	34.8
88	14.4	0.0	28.8



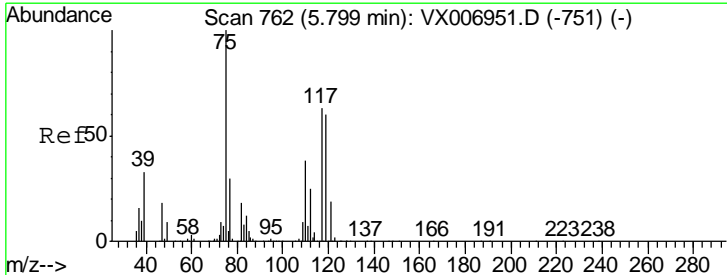
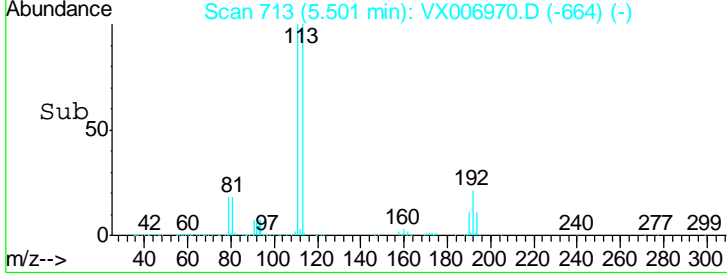
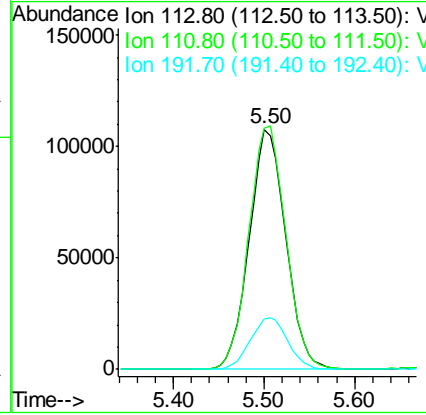
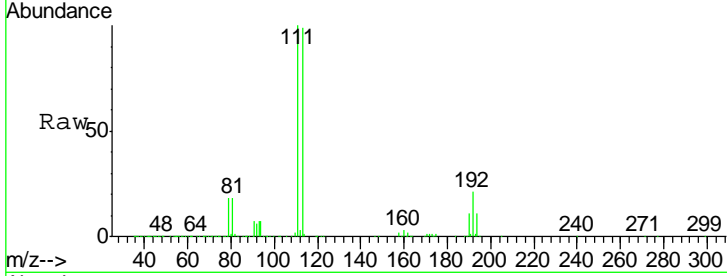




#35  
 Dibromofluoromethane  
 Concen: 47.558 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

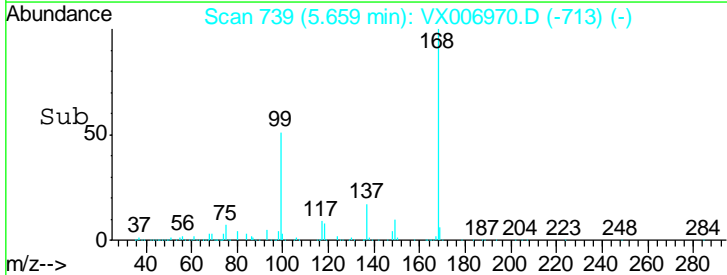
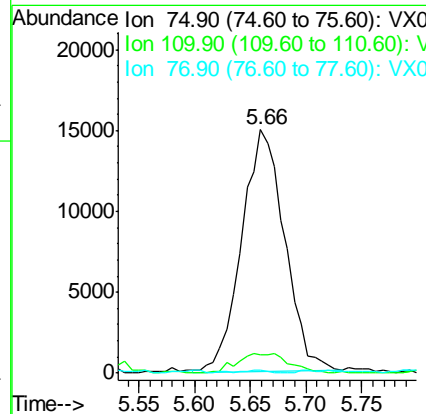
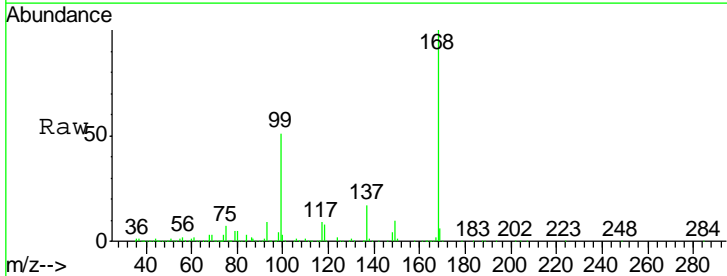
Instrument :  
 MSVOA\_X  
 ClientSampled :

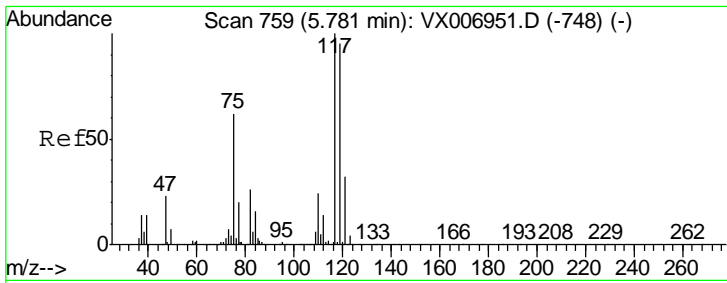
Tgt Ion	Resp	Lower	Upper
113	300315		
113	100		
111	102.6	81.6	122.4
192	22.0	16.7	25.1



#36  
 1,1-Dichloropropene  
 Concen: 4.682 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
75	40140		
75	100		
110	9.8	20.2	60.5#
77	0.6	24.8	37.2#

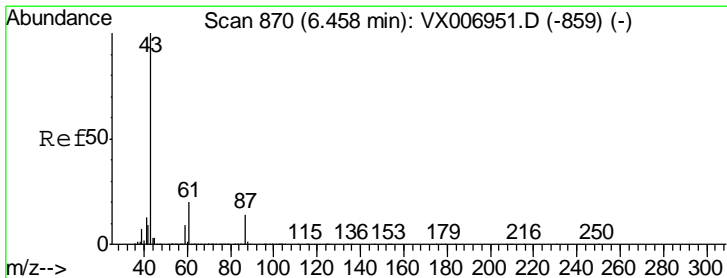
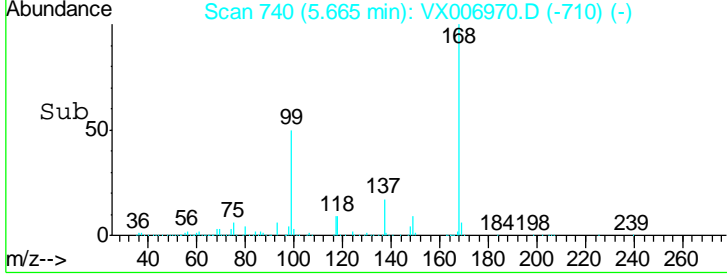
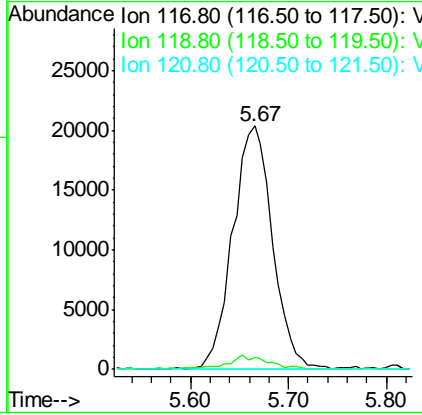
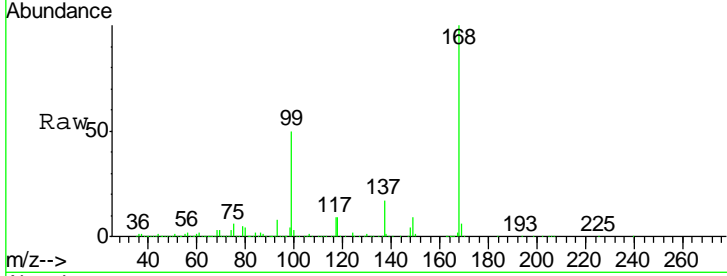




#38  
 Carbon Tetrachloride  
 Concen: 6.644 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

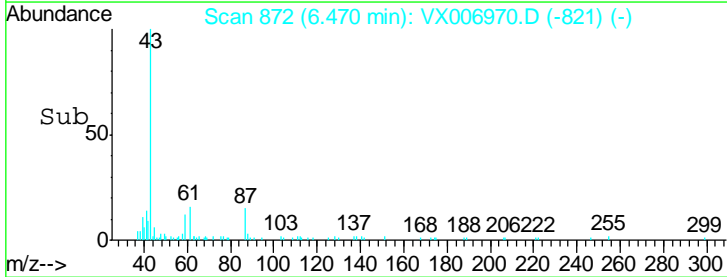
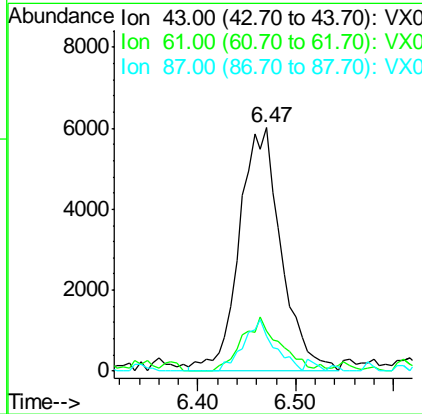
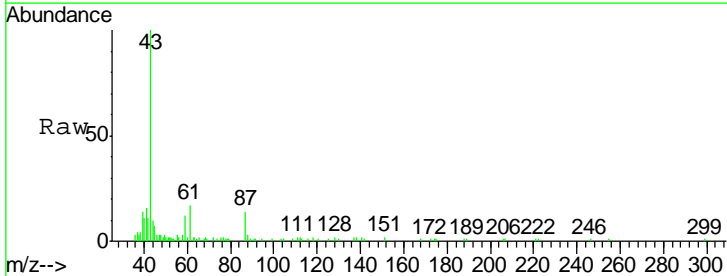
Instrument :  
 MSVOA\_X  
 ClientSampled :

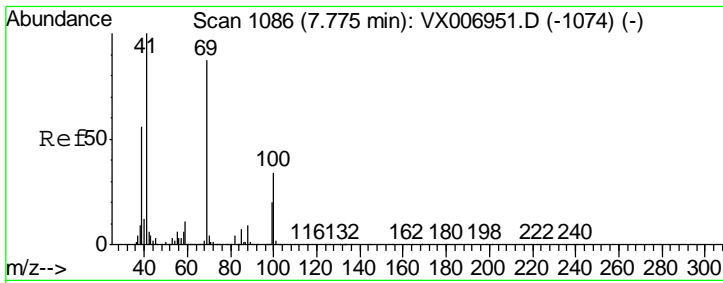
Tgt Ion	Resp	Lower	Upper
117	57304		
119	4.7	79.4	119.2#
121	0.3	24.0	36.0#



#43  
 Isopropyl Acetate  
 Concen: 1.233 ug/l  
 RT: 6.47 min Scan# 872  
 Delta R.T. 0.01 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
43	17882		
61	20.0	16.8	25.2
87	15.5	12.4	18.6

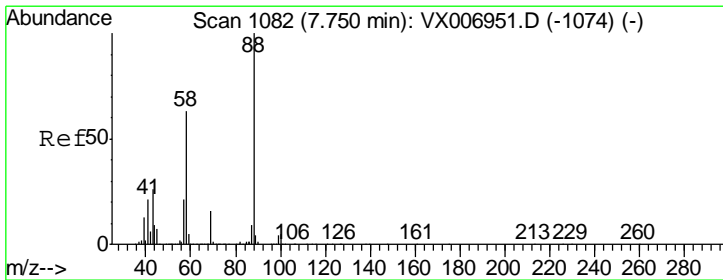
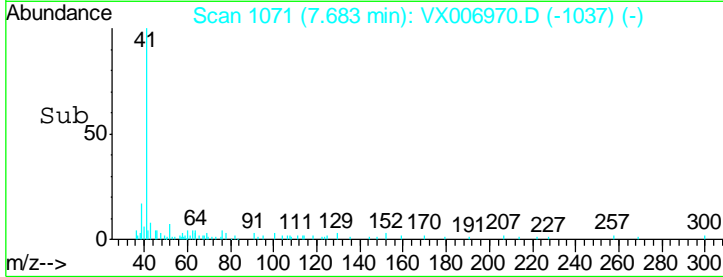
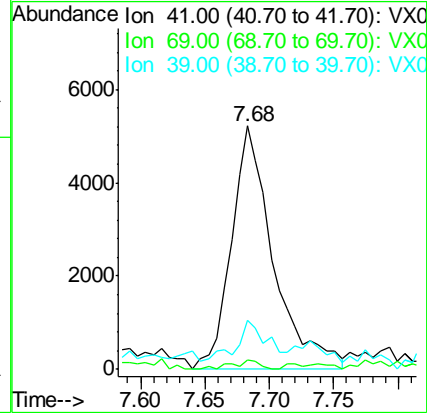
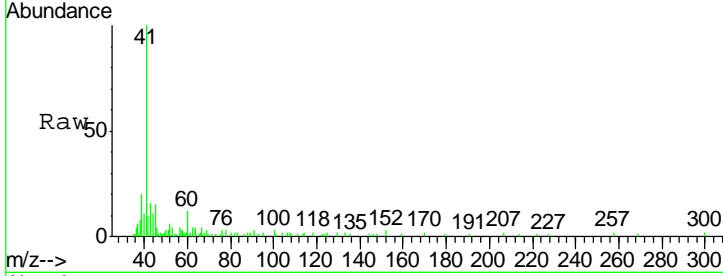




#48  
 Methyl methacrylate  
 Concen: 1.587 ug/l  
 RT: 7.68 min Scan# 1071  
 Delta R.T. -0.09 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

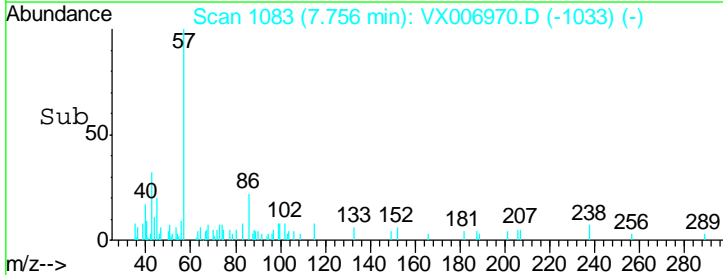
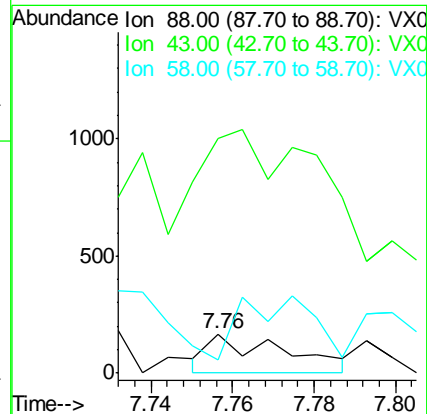
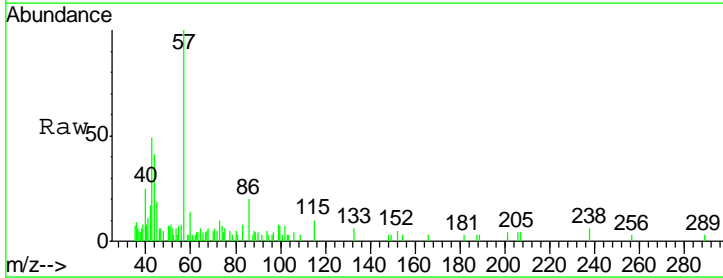
Instrument : MSVOA\_X  
 ClientSampled :

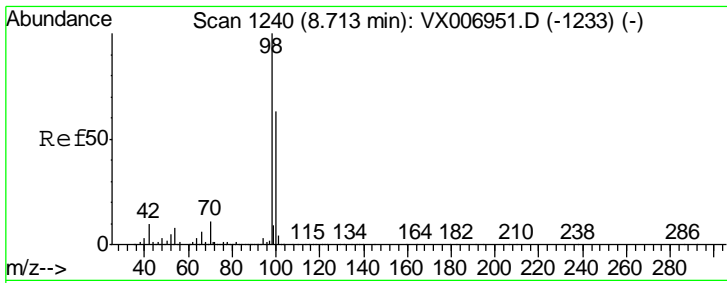
Tgt Ion	Resp	Lower	Upper
41	11816		
69	2.4	72.4	108.6#
39	0.0	45.8	68.8#



#49  
 1,4-Dioxane  
 Concen: Below Cal  
 RT: 7.76 min Scan# 1083  
 Delta R.T. 0.01 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
88	219		
43	0.0	22.2	33.4#
58	0.0	51.0	76.4#

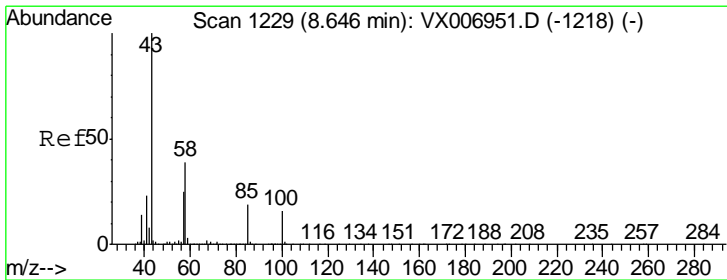
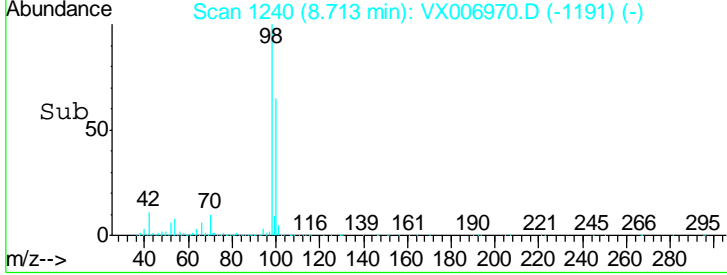
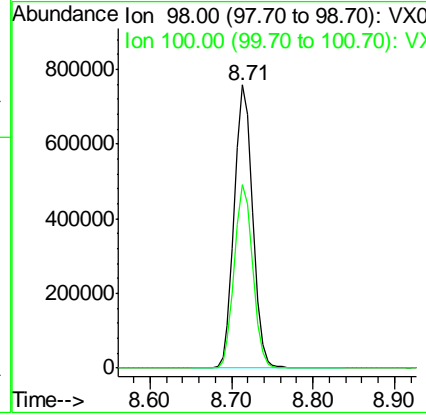
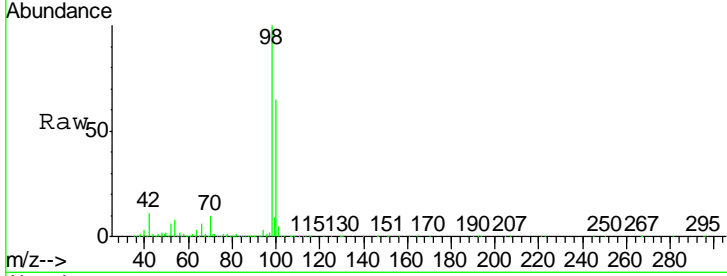




#50  
 Toluene-d8  
 Concen: 50.686 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

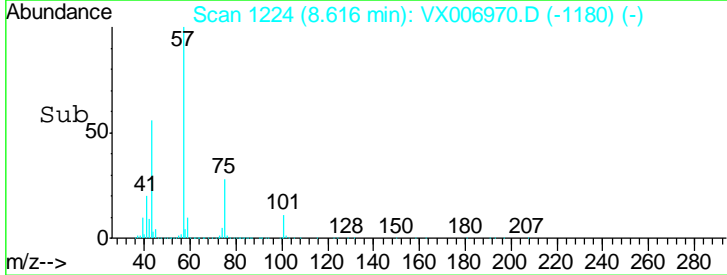
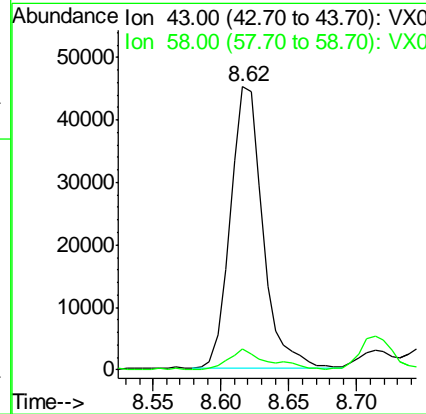
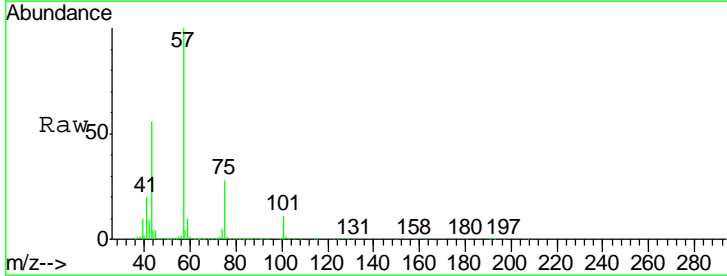
Instrument :  
 MSVOA\_X  
 ClientSampled :

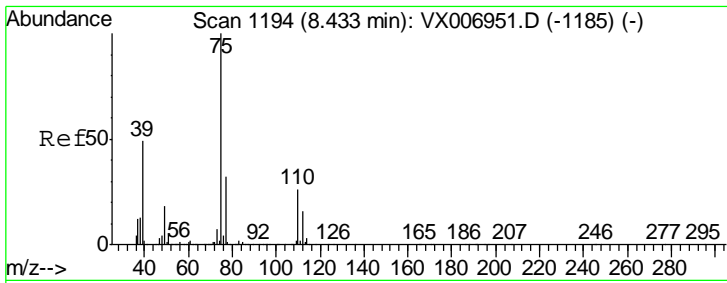
Tgt Ion: 98 Resp: 1171540  
 Ion Ratio Lower Upper  
 98 100  
 100 64.9 52.0 78.0



#51  
 4-Methyl-2-Pentanone  
 Concen: 7.968 ug/l  
 RT: 8.62 min Scan# 1224  
 Delta R.T. -0.03 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion: 43 Resp: 74236  
 Ion Ratio Lower Upper  
 43 100  
 58 9.3 31.8 47.6#

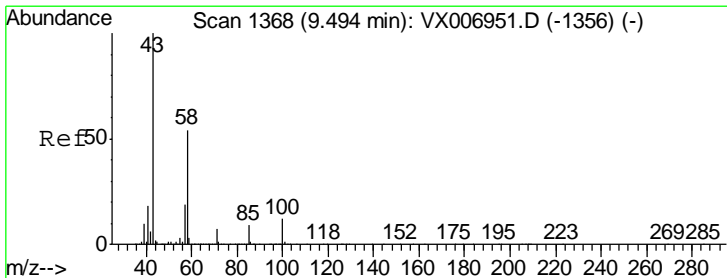
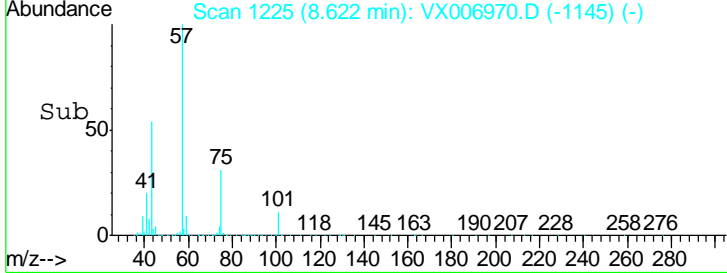
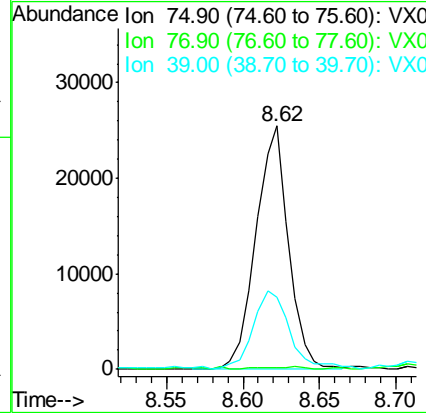
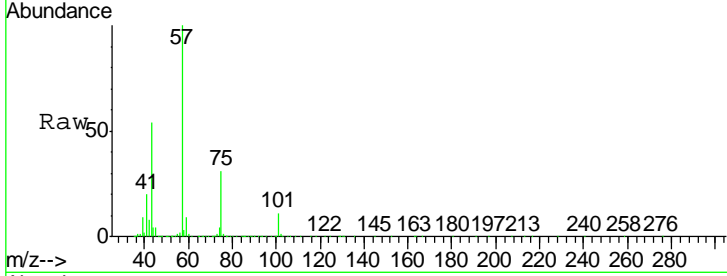




#54  
 cis-1,3-Dichloropropene  
 Concen: 3.923 ug/l  
 RT: 8.62 min Scan# 1225  
 Delta R.T. 0.19 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

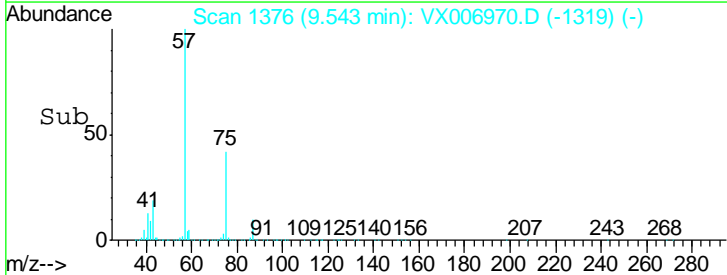
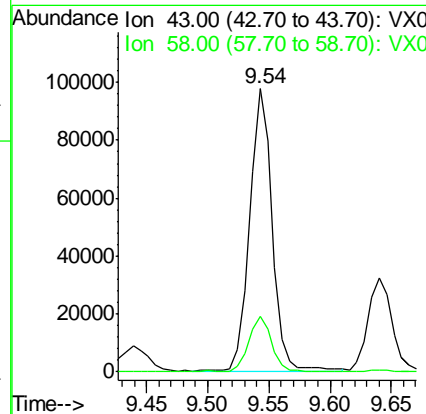
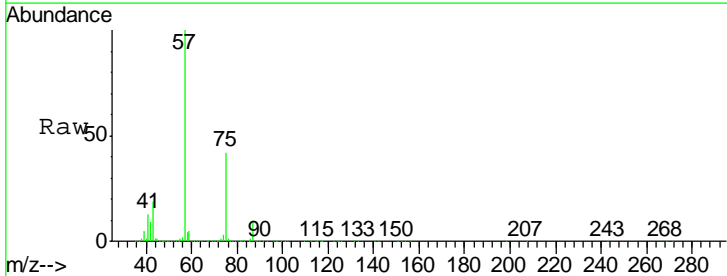
Instrument :  
 MSVOA\_X  
 ClientSampled :

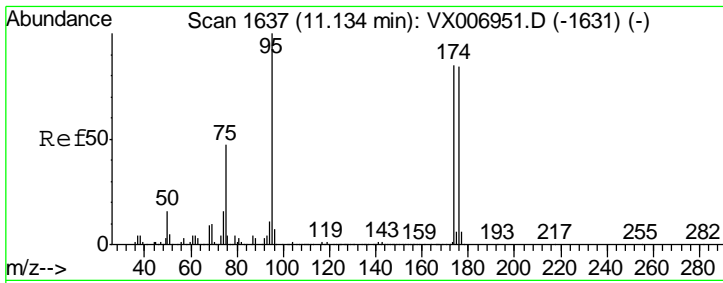
Tgt Ion	Resp	Lower	Upper
75	37796		
77	0.3	26.2	39.2#
39	28.3	36.7	55.1#



#59  
 2-Hexanone  
 Concen: 17.549 ug/l  
 RT: 9.54 min Scan# 1376  
 Delta R.T. 0.05 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
43	124599		
58	19.7	27.7	83.1#

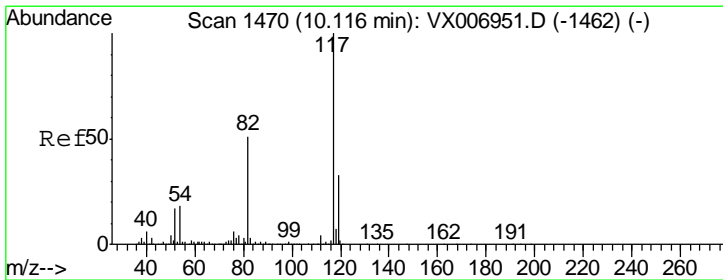
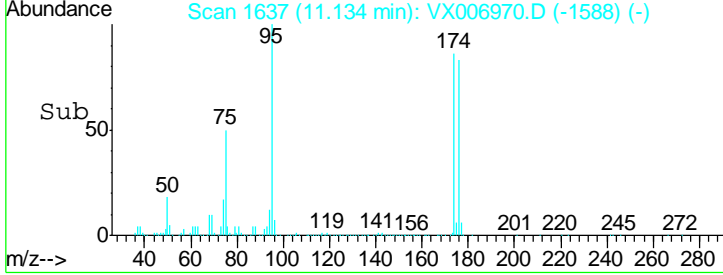
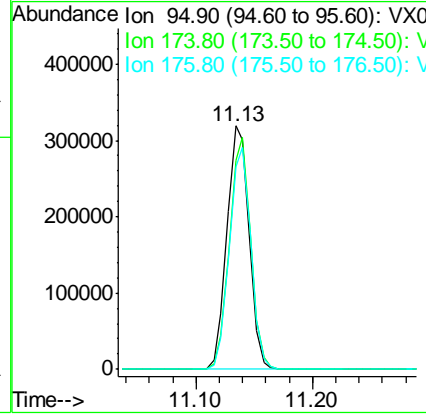
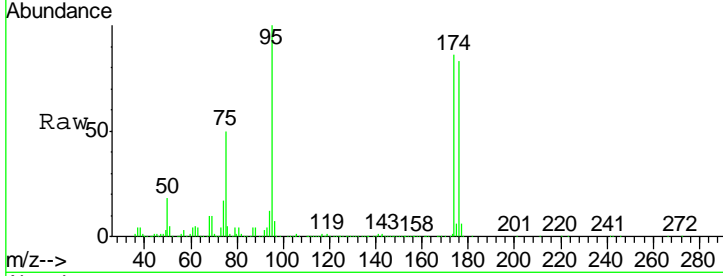




#62  
 4-Bromofluorobenzene  
 Concen: 51.945 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

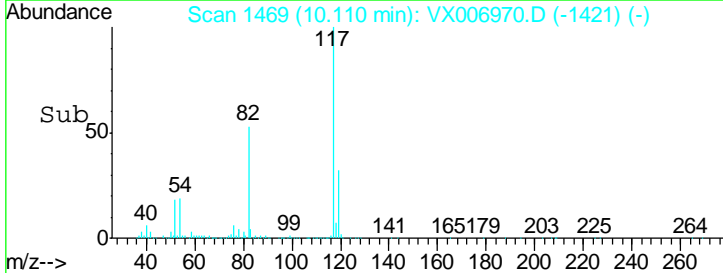
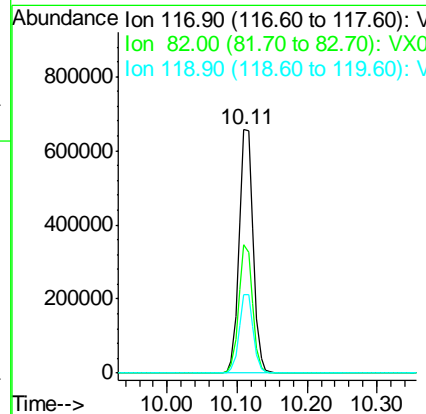
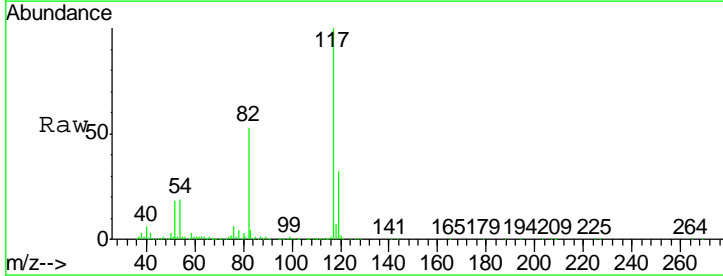
Instrument :  
 MSVOA\_X  
 ClientSampled :

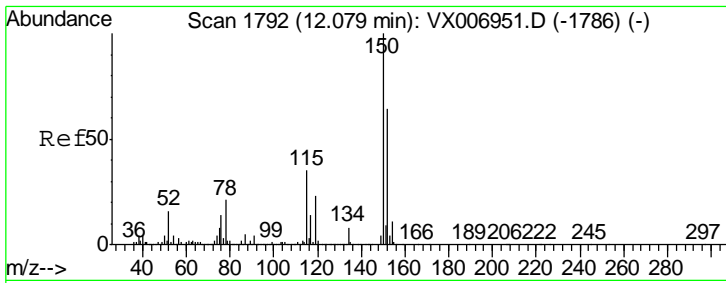
Tgt Ion	Resp	Lower	Upper
95	100		
174	91.7	0.0	182.2
176	89.0	0.0	178.8



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 10.11 min Scan# 1469  
 Delta R.T. -0.01 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
117	100		
82	52.7	41.0	61.6
119	32.2	25.4	38.0

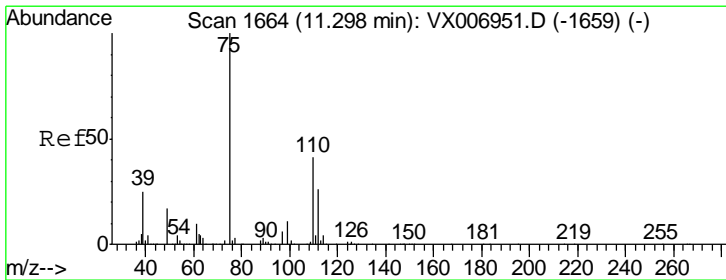
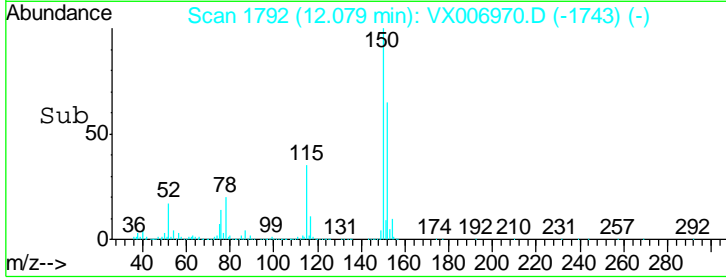
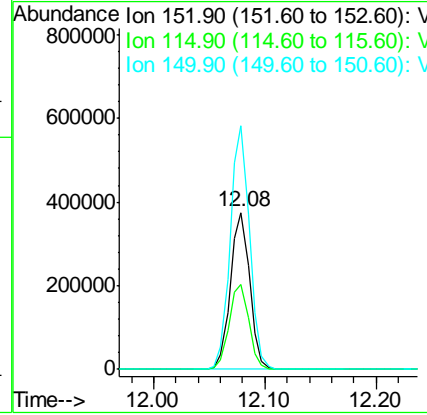
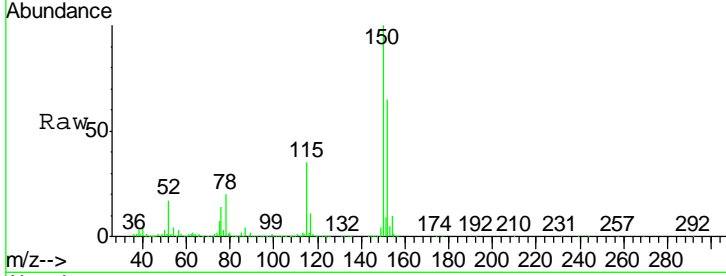




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

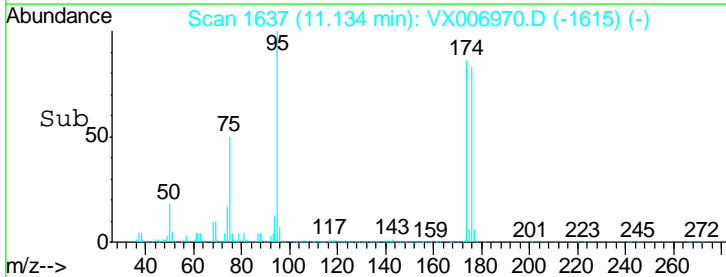
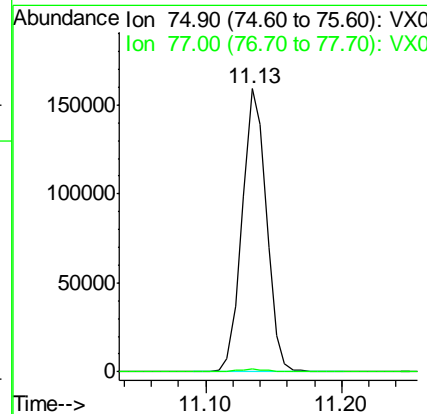
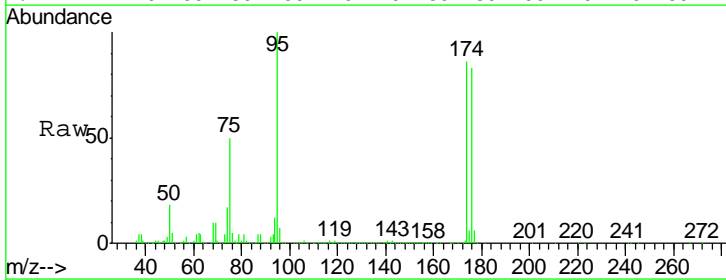
Instrument :  
 MSVOA\_X  
 ClientSampled :

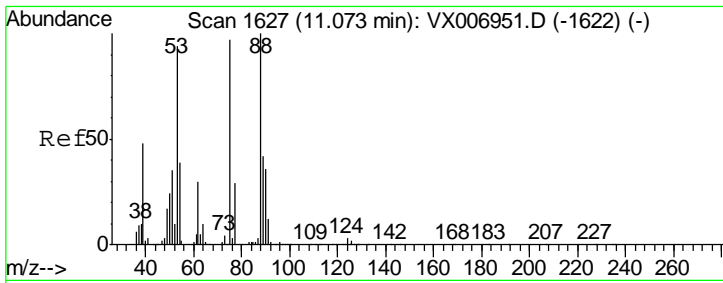
Tgt Ion	Resp	Lower	Upper
152	100		
115	55.5	39.1	117.2
150	155.3	0.0	344.8



#76  
 1,2,3-Trichloropropane  
 Concen: 21.757 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
75	100		
77	1.3	18.5	55.5#

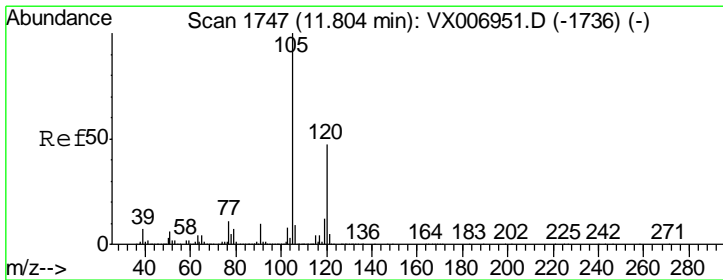
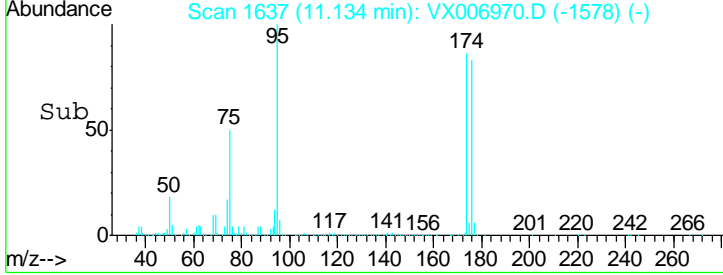
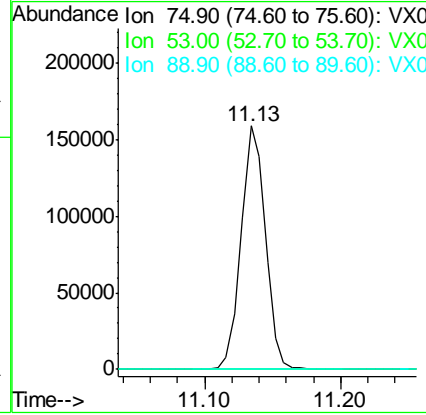
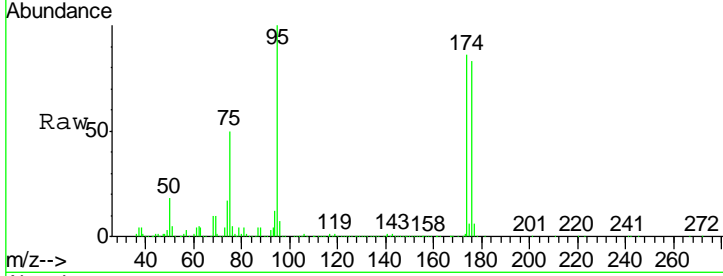




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.474 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

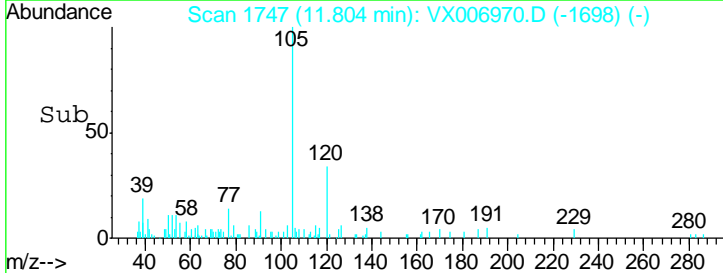
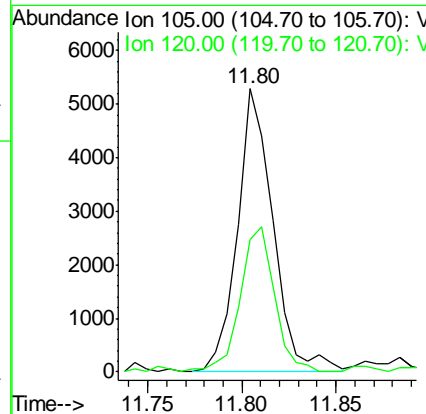
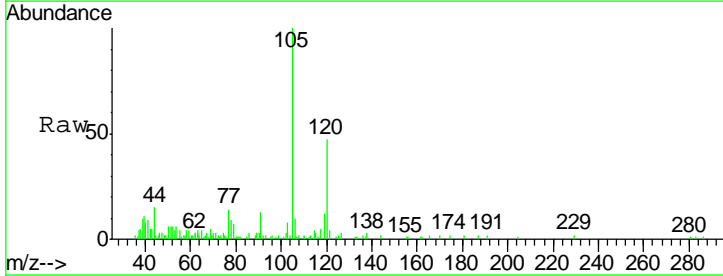
Instrument :  
 MSVOA\_X  
 ClientSampled :

Tgt Ion	Resp	Lower	Upper
75	100		
53	0.1	79.7	119.5#
89	0.1	38.0	57.0#

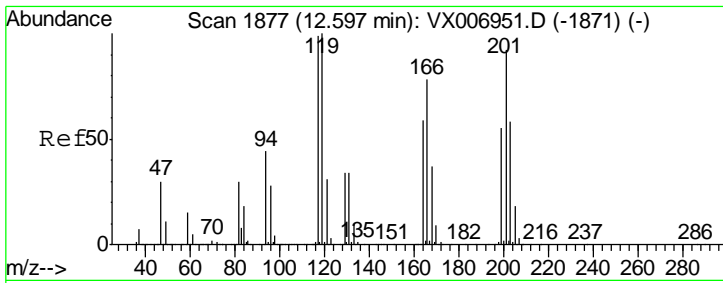


#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.261 ug/l  
 RT: 11.80 min Scan# 1747  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion	Resp	Lower	Upper
105	100		
120	49.3	23.2	69.6



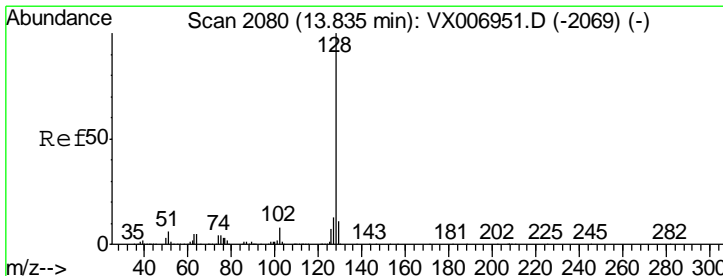
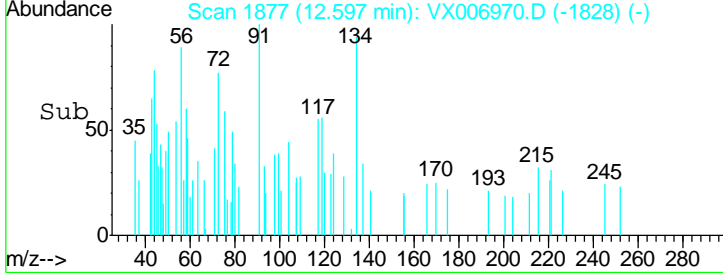
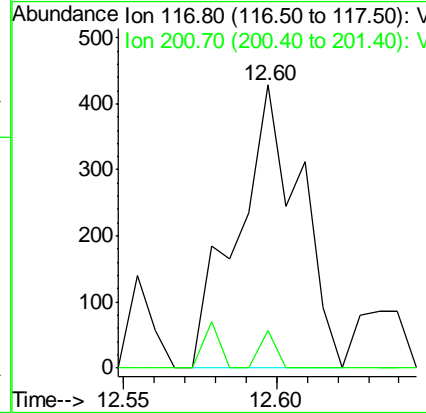
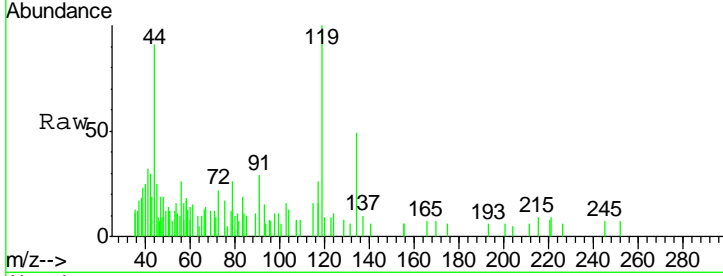




#90  
 Hexachloroethane  
 Concen: 3.036 ug/l  
 RT: 12.60 min Scan# 1877  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Instrument :  
 MSVOA\_X  
 ClientSampled :

Tgt Ion: 117 Resp: 609  
 Ion Ratio Lower Upper  
 117 100  
 201 3.3 42.9 128.7#



#95  
 Naphthalene  
 Concen: 0.881 ug/l  
 RT: 13.83 min Scan# 2080  
 Delta R.T. 0.00 min  
 Lab File: VX006970.D  
 Acq: 09 Jan 2019 17:27

Tgt Ion: 128 Resp: 28435  
 Ion Ratio Lower Upper  
 128 100  
 127 15.0 10.1 15.1  
 129 12.1 8.6 13.0

