

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\  
 Data File : VX009598.D  
 Acq On : 16 May 2019 11:40  
 Operator : JC/SP  
 Sample : K2857-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB

Quant Time: May 17 06:36:38 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	5.66	168	181135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	290566	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	255358	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110755	50.00	ug/l	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	120674	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
35) Dibromofluoromethane	5.50	113	88630	48.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.04%	
50) Toluene-d8	8.71	98	363052	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.13	95	120315	44.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.80%	

## Target Compounds

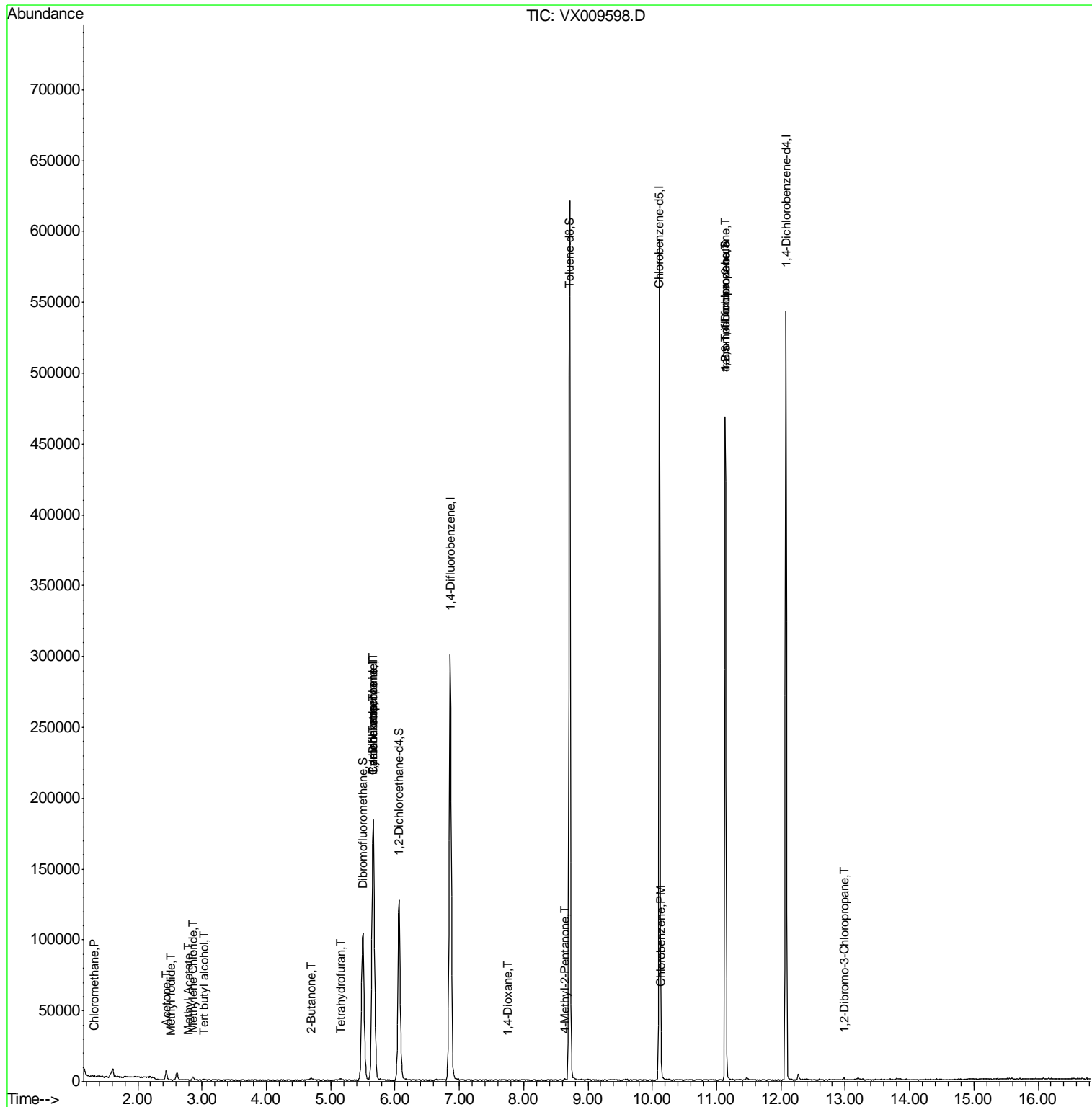
					Qvalue	
3) Chloromethane	1.33	50	541	0.237	ug/l	89
10) Methyl Iodide	2.52	142	40	4.612	ug/l #	42
11) Tert butyl alcohol	3.04	59	467	0.816	ug/l	97
16) Acetone	2.44	43	7464	5.622	ug/l	96
18) Methyl Acetate	2.78	43	691	0.219	ug/l #	70
20) Methylene Chloride	2.86	84	868	0.404	ug/l #	91
25) 2-Butanone	4.69	43	1153	0.559	ug/l #	90
28) Bromochloromethane	5.01	49	82	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	1120	0.844	ug/l #	83
31) Cyclohexane	5.67	56	4031	1.103	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14043	5.201	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16863	6.873	ug/l #	16
49) 1,4-Dioxane	7.75	88	22	0.363	ug/l #	12
51) 4-Methyl-2-Pentanone	8.64	43	1093	0.278	ug/l	99
65) Chlorobenzene	10.14	112	1734	0.339	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	61268	23.848	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61268	61.018	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	12.97	75	221	0.328	ug/l #	2

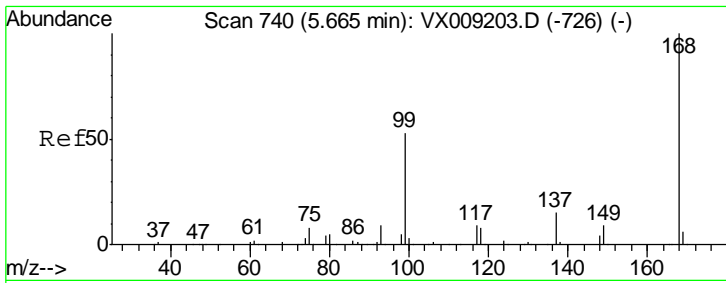
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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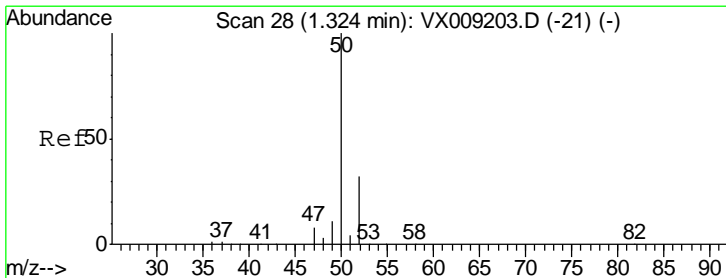
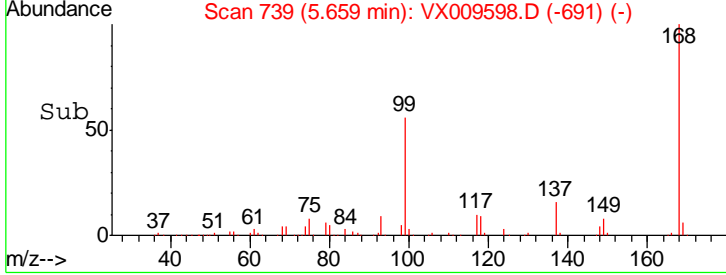
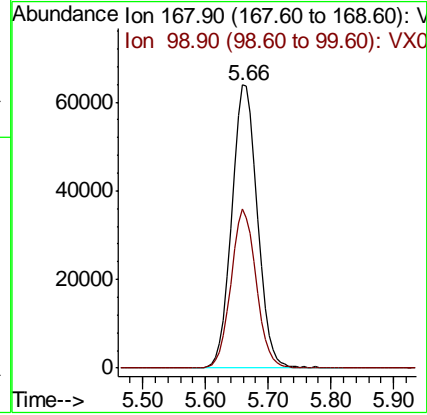
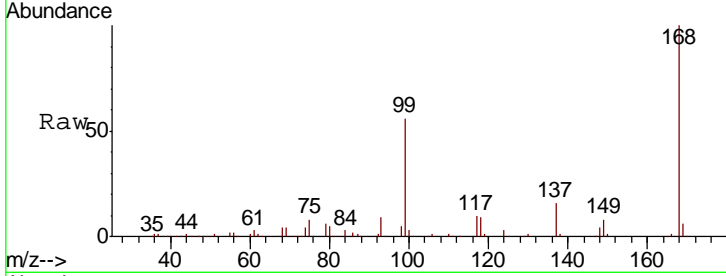




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

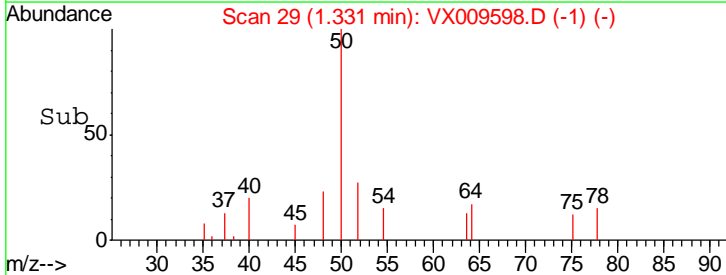
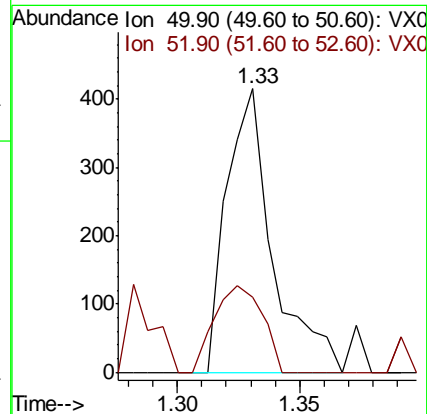
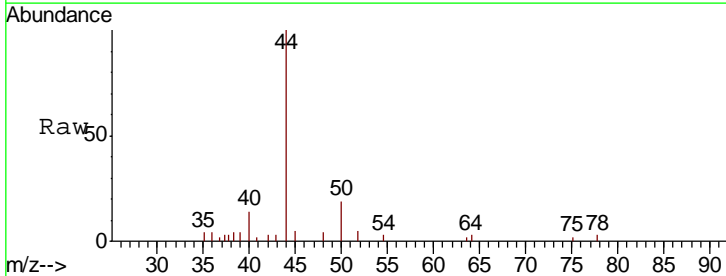
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB

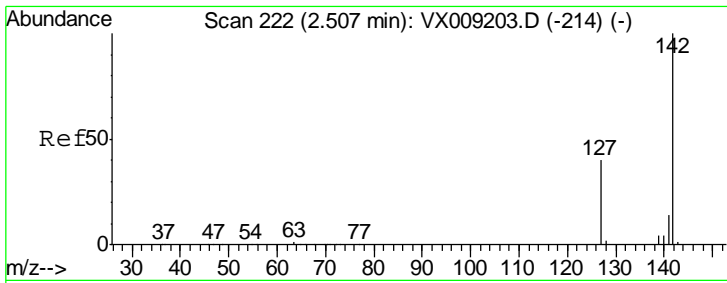
Tgt Ion: 168 Resp: 181135  
 Ion Ratio Lower Upper  
 168 100  
 99 56.0 42.3 63.5



#3  
 Chloromethane  
 Concen: 0.237 ug/l  
 RT: 1.33 min Scan# 29  
 Delta R.T. 0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion: 50 Resp: 541  
 Ion Ratio Lower Upper  
 50 100  
 52 26.5 25.9 38.9

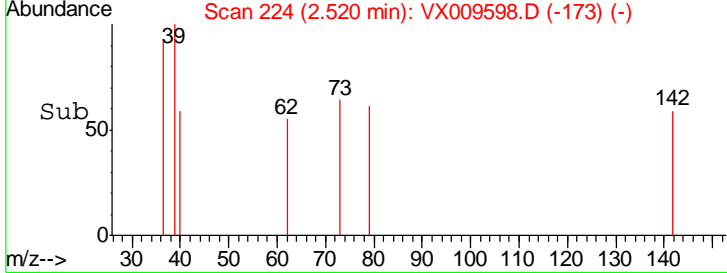
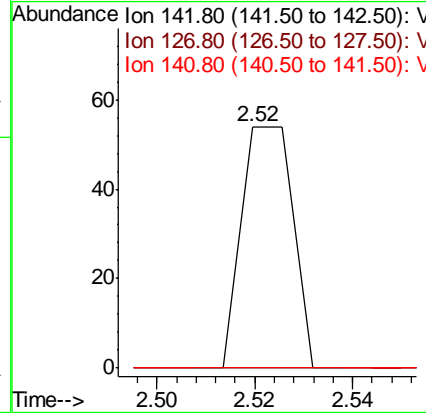
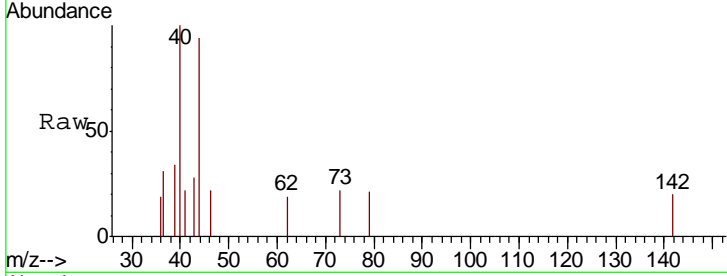




#10  
 Methyl Iodide  
 Concen: 4.612 ug/l  
 RT: 2.52 min Scan# 224  
 Delta R.T. 0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

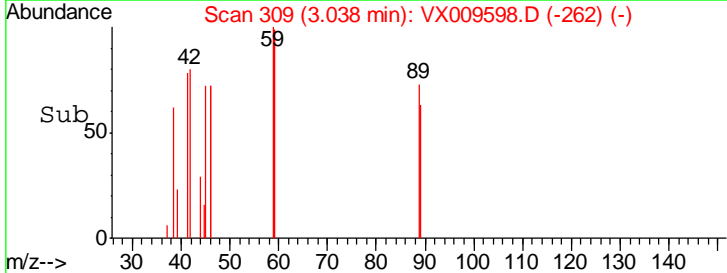
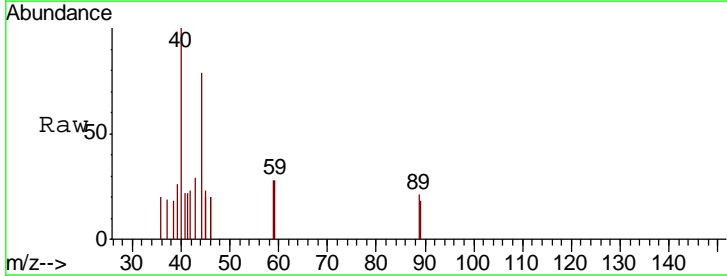
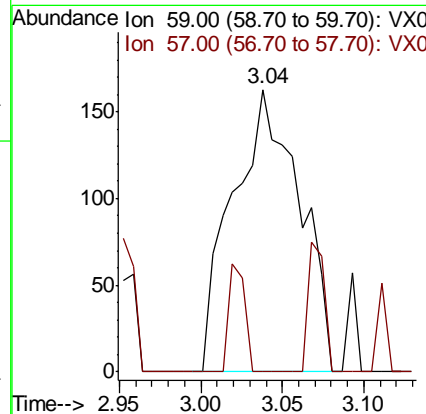
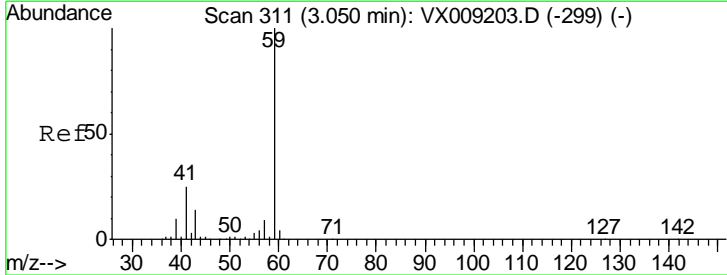
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB

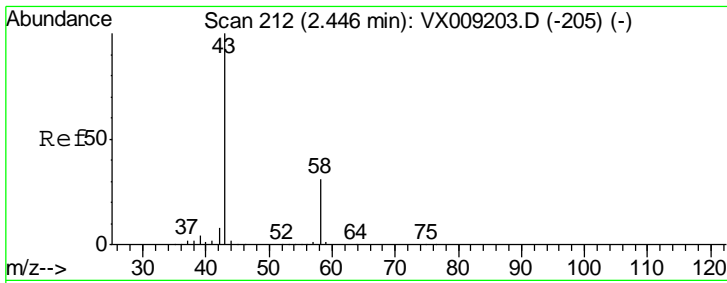
Tgt Ion	Resp	Lower	Upper
142	100		
127	0.0	32.7	49.1#
141	0.0	11.5	17.3#



#11  
 Tert butyl alcohol  
 Concen: 0.816 ug/l  
 RT: 3.04 min Scan# 309  
 Delta R.T. -0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
59	100		
57	9.0	8.2	12.2

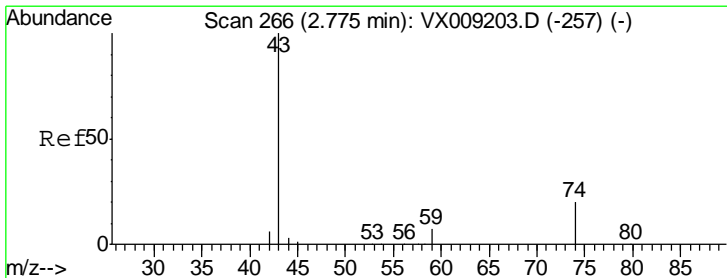
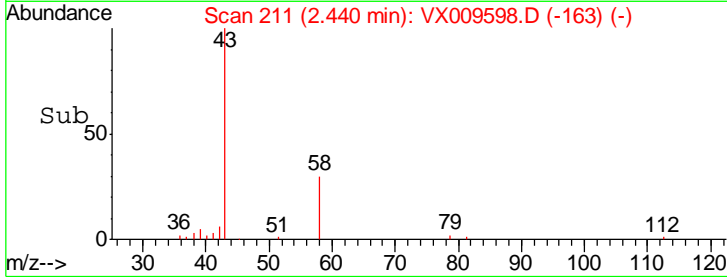
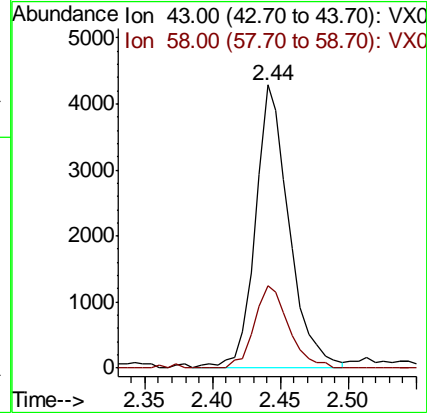
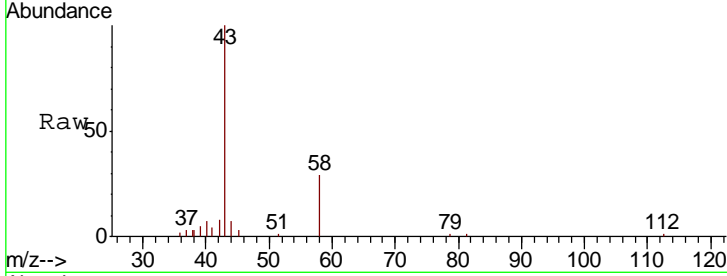




#16  
 Acetone  
 Concen: 5.622 ug/l  
 RT: 2.44 min Scan# 211  
 Delta R.T. -0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

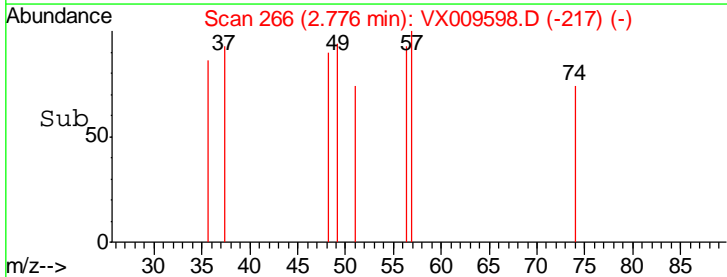
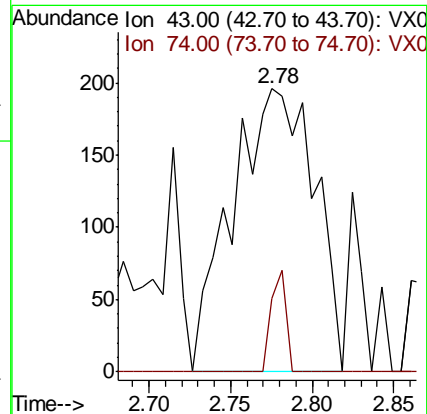
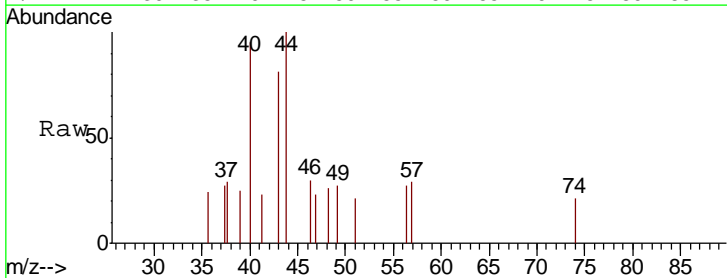
Instrument : MSVOA\_X  
 ClientSampled : TB

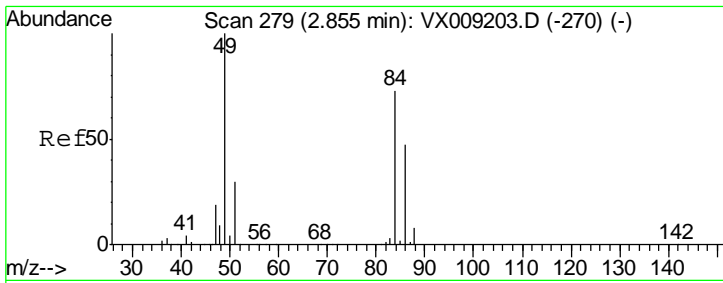
Tgt Ion	Resp	Lower	Upper
43	100		
58	29.1	24.9	37.3



#18  
 Methyl Acetate  
 Concen: 0.219 ug/l  
 RT: 2.78 min Scan# 266  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
43	100		
74	6.4	16.2	24.4#

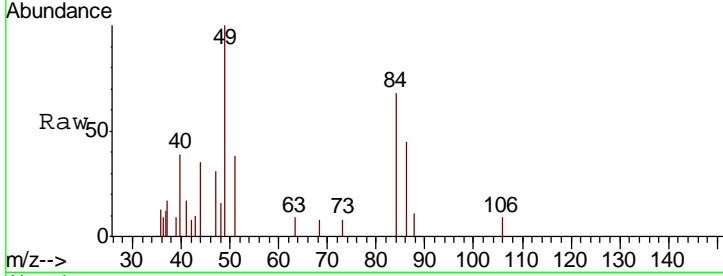




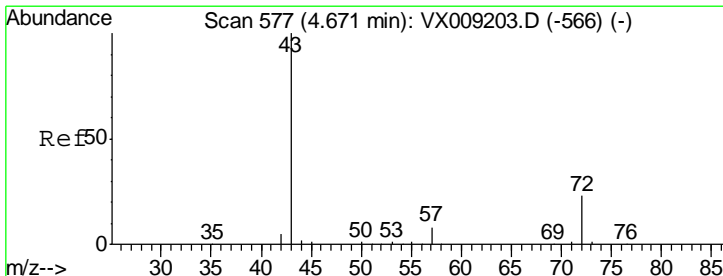
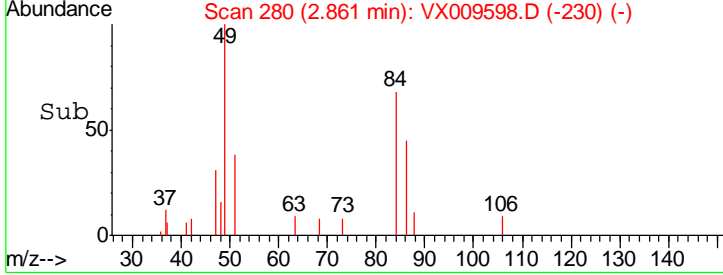
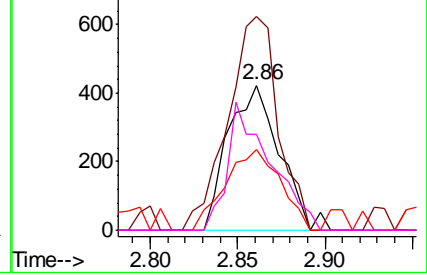
#20  
 Methylene Chloride  
 Concen: 0.404 ug/l  
 RT: 2.86 min Scan# 280  
 Delta R.T. 0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Instrument : MSVOA\_X  
 ClientSampled : TB

Tgt Ion	Resp	Lower	Upper
84	100		
49	147.2	109.9	164.9
51	55.7	32.7	49.1#
86	66.0	52.0	78.0

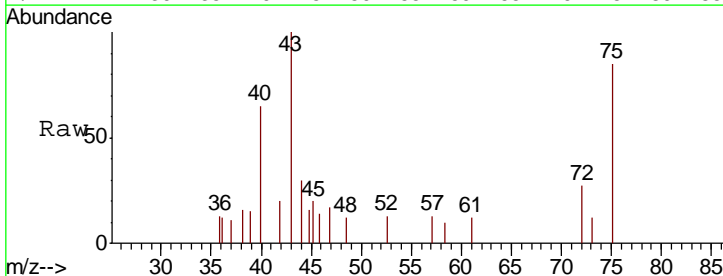


Abundance Ion 83.90 (83.60 to 84.60): VX0  
 Ion 48.90 (48.60 to 49.60): VX0  
 Ion 50.90 (50.60 to 51.60): VX0  
 Ion 85.90 (85.60 to 86.60): VX0

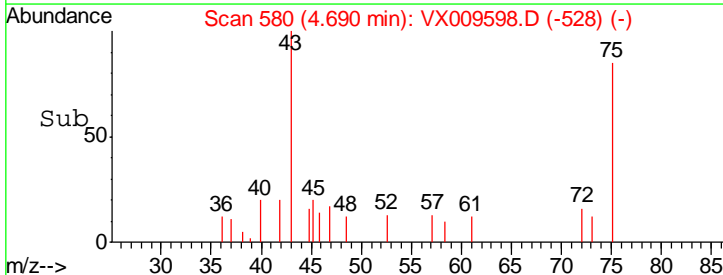
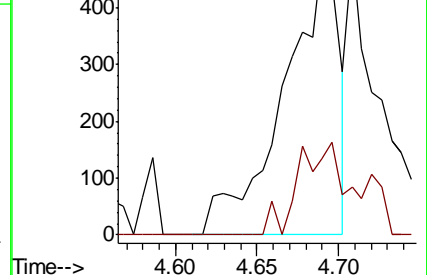


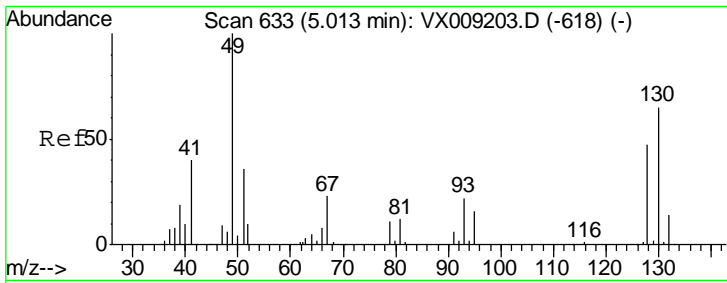
#25  
 2-Butanone  
 Concen: 0.559 ug/l  
 RT: 4.69 min Scan# 580  
 Delta R.T. 0.02 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
43	100		
72	27.3	18.2	27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0  
 Ion 72.00 (71.70 to 72.70): VX0

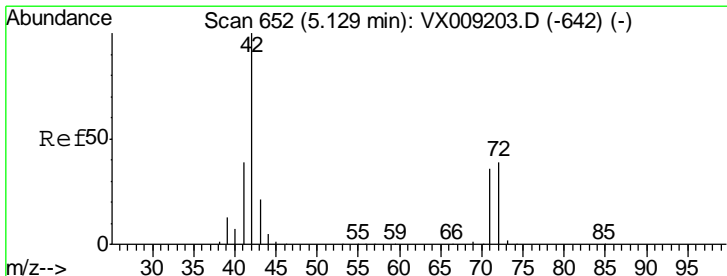
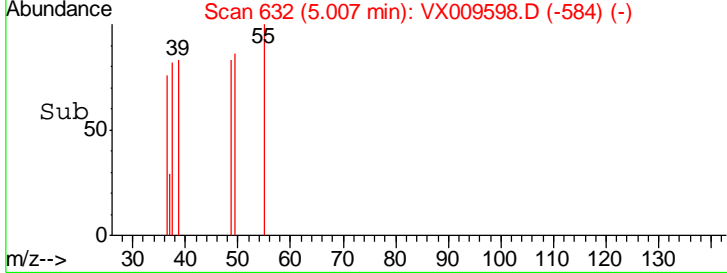
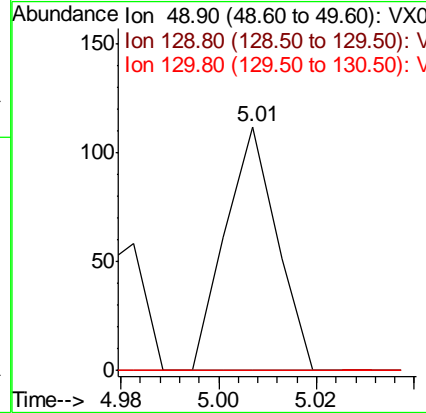
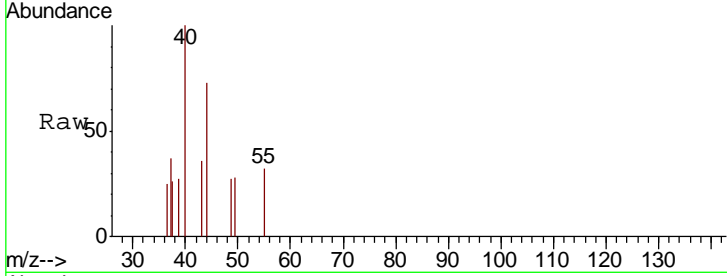




#28  
 Bromochloromethane  
 Concen: Below Cal  
 RT: 5.01 min Scan# 632  
 Delta R.T. -0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

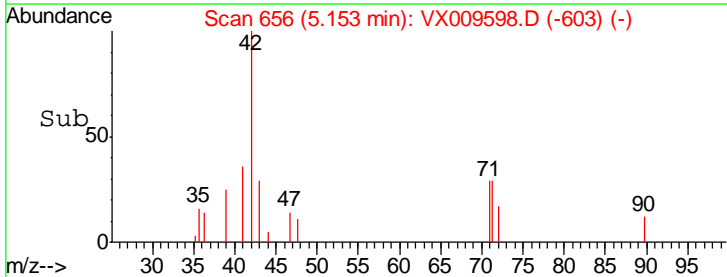
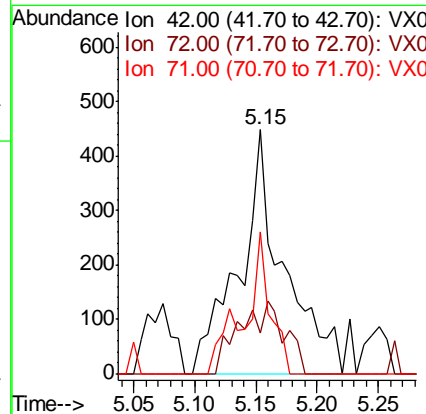
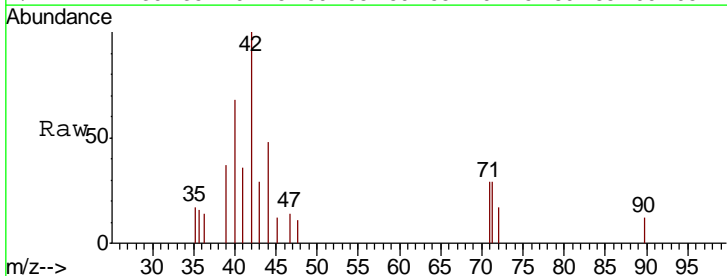
Instrument : MSVOA\_X  
 ClientSampled : TB

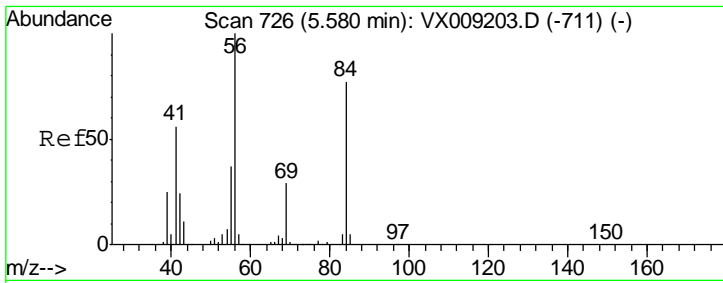
Tgt Ion	Resp	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	51.2	76.8#



#29  
 Tetrahydrofuran  
 Concen: 0.844 ug/l  
 RT: 5.15 min Scan# 656  
 Delta R.T. 0.02 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
42	100		
72	30.4	30.4	45.6
71	23.5	28.6	43.0#

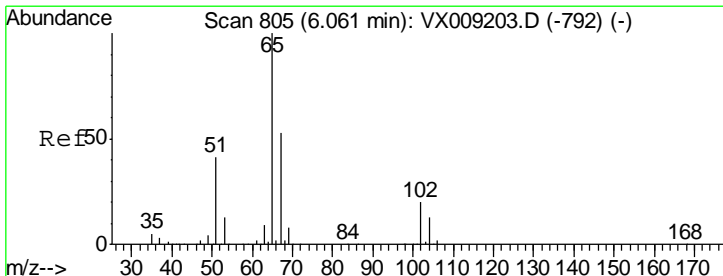
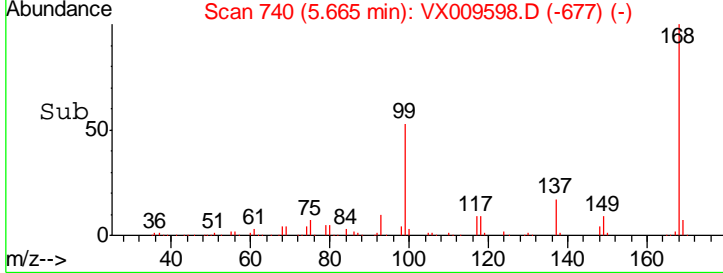
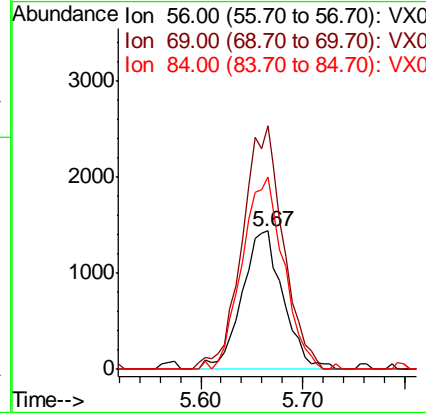
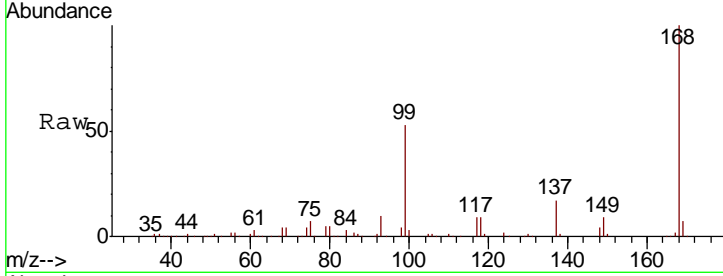




#31  
 Cyclohexane  
 Concen: 1.103 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. 0.09 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

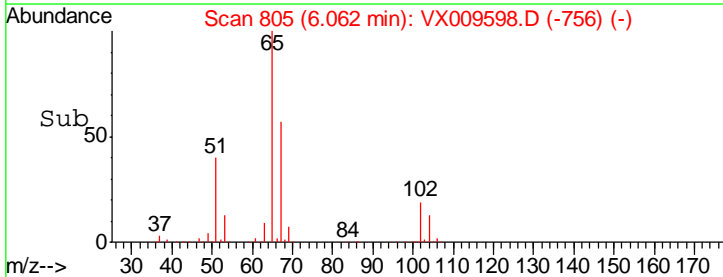
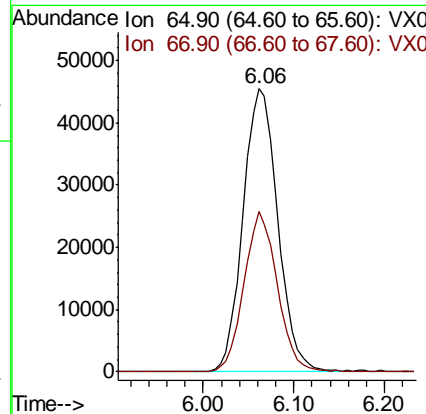
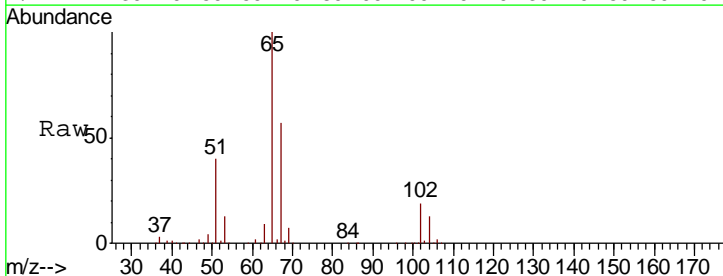
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB

Tgt Ion	Resp	Lower	Upper
56	4031		
69	176.1	23.4	35.0#
84	139.1	61.9	92.9#

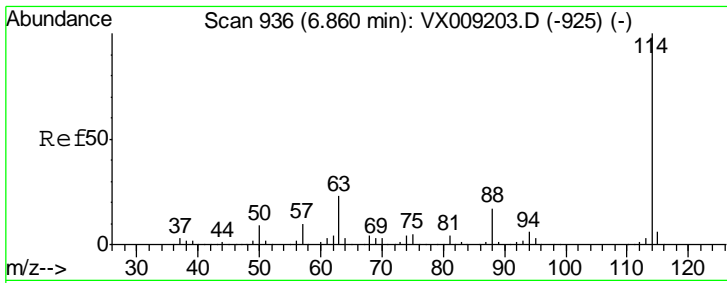


#33  
 1,2-Dichloroethane-d4  
 Concen: 48.802 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
65	120674		
67	54.3	0.0	106.6



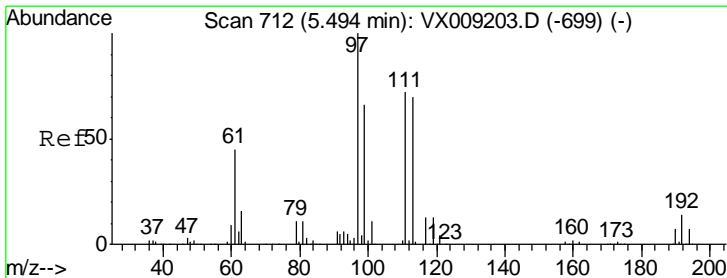
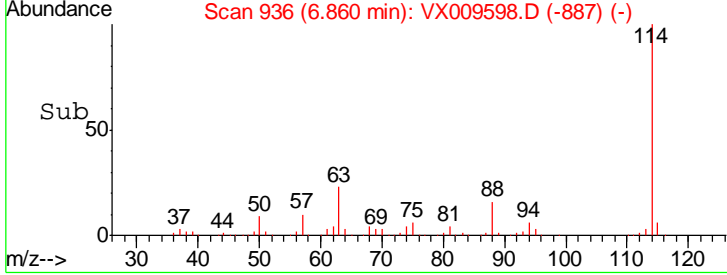
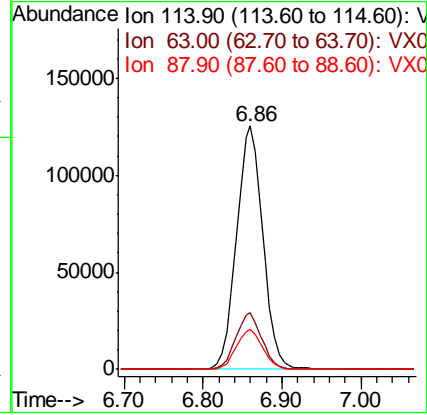
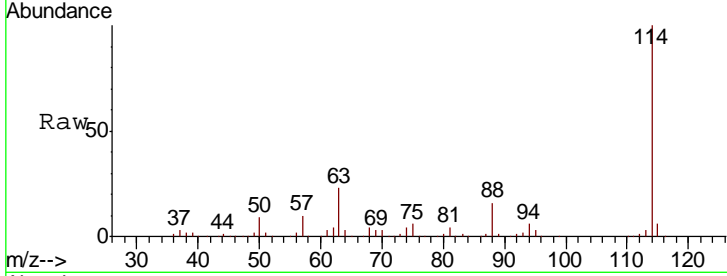




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

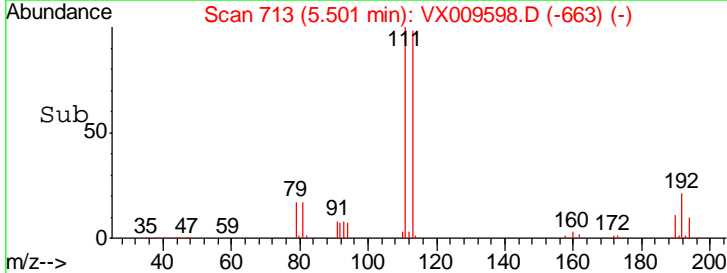
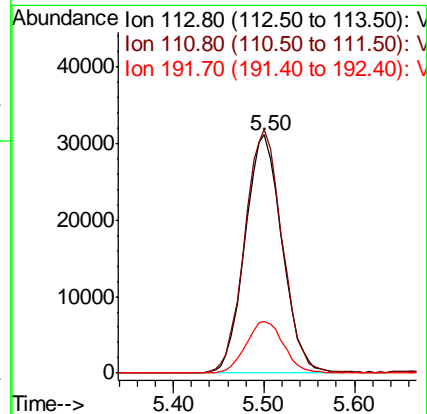
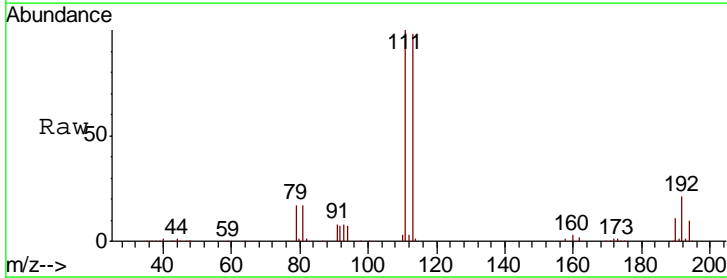
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB

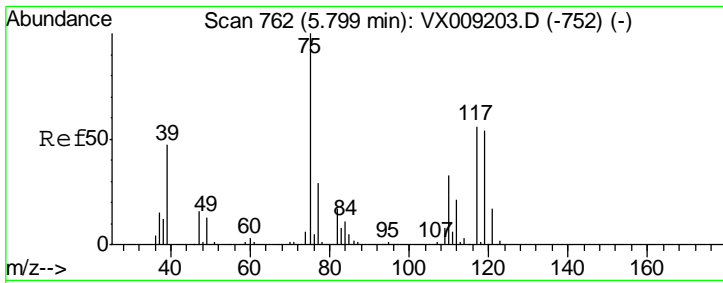
Tgt Ion	Resp	Lower	Upper
114	100		
63	23.1	0.0	45.6
88	16.4	0.0	33.2



#35  
 Dibromofluoromethane  
 Concen: 48.521 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
113	100		
111	102.9	82.8	124.2
192	22.0	17.0	25.6

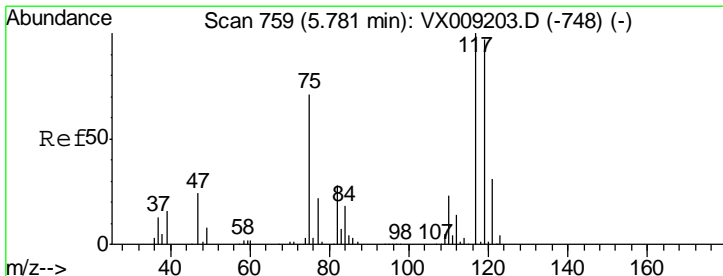
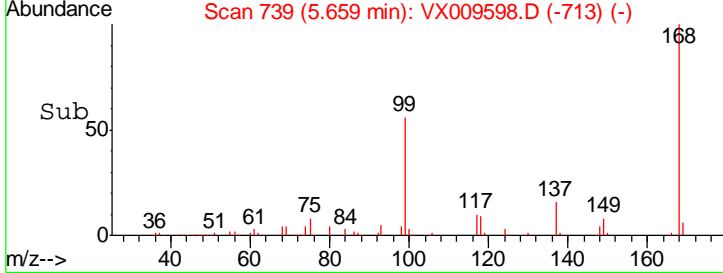
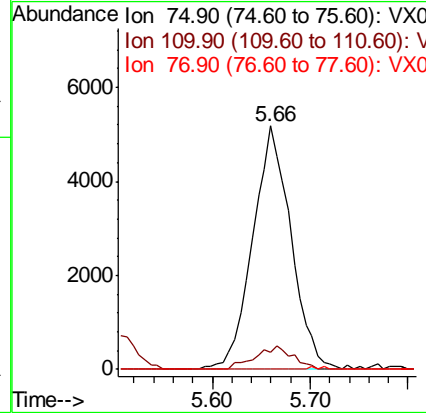
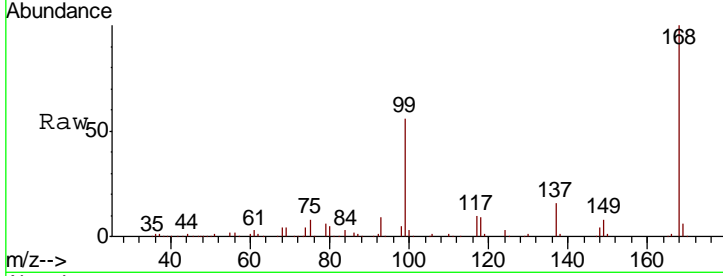




#36  
 1,1-Dichloropropene  
 Concen: 5.201 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

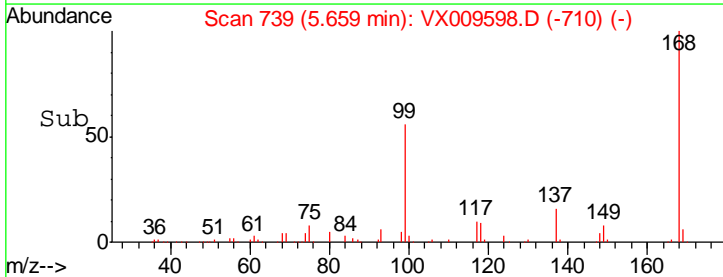
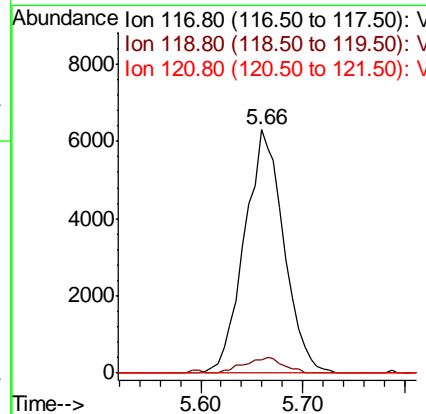
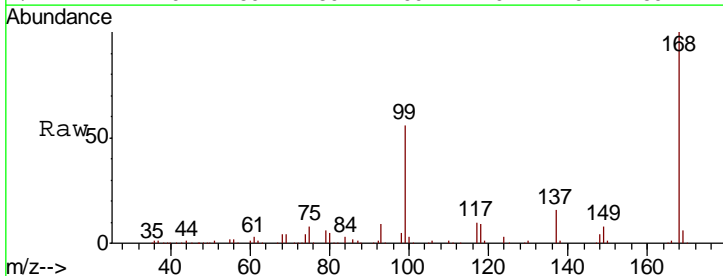
Instrument : MSVOA\_X  
 ClientSampled : TB

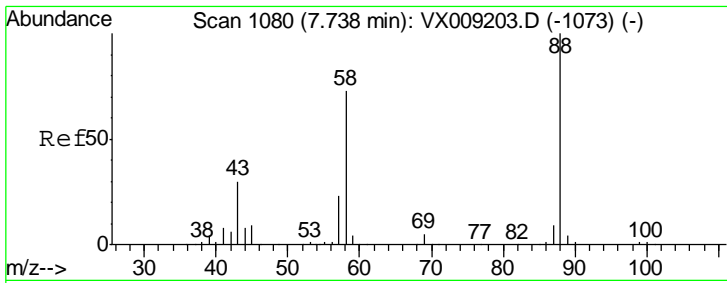
Tgt Ion	Resp	Lower	Upper
75	14043		
110	9.4	16.9	50.6#
77	0.0	24.8	37.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.873 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
117	16863		
119	5.5	77.5	116.3#
121	0.0	24.7	37.1#

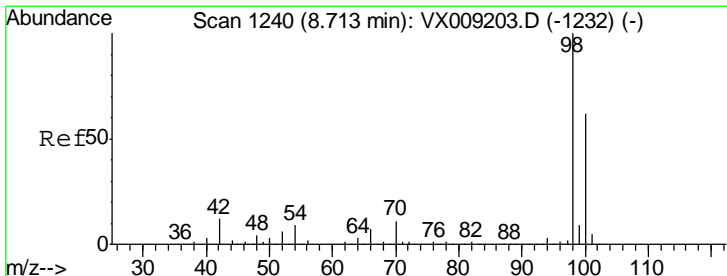
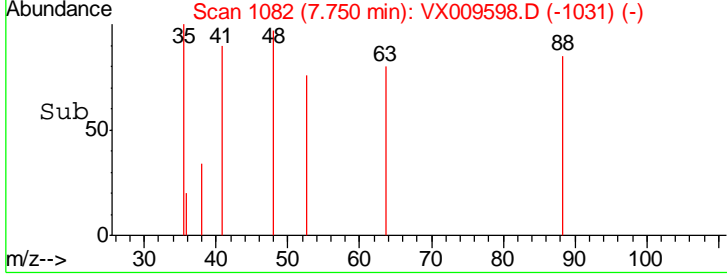
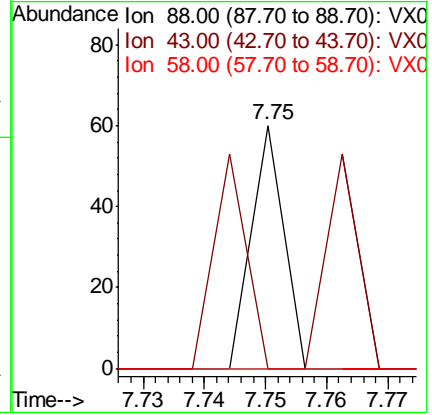
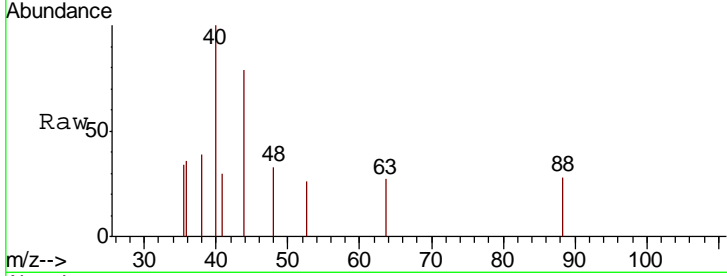




#49  
 1,4-Dioxane  
 Concen: 0.363 ug/l  
 RT: 7.75 min Scan# 1082  
 Delta R.T. 0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

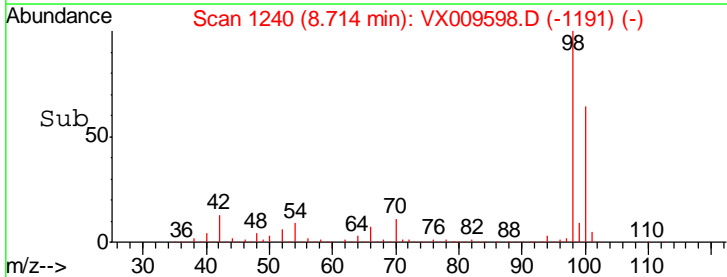
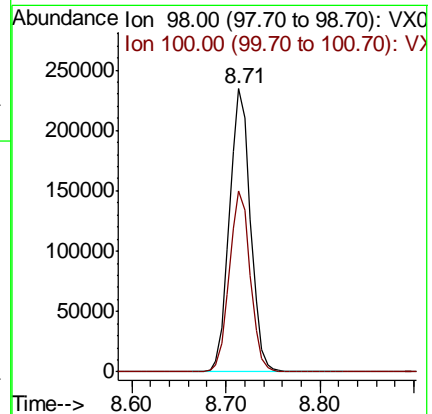
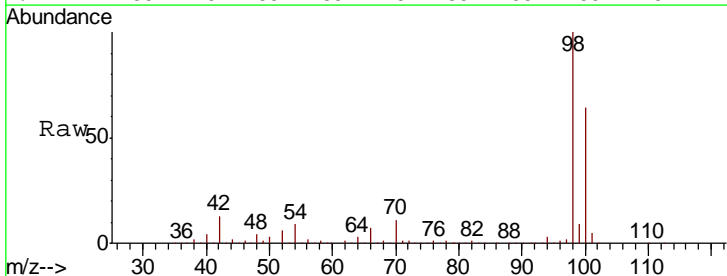
Instrument : MSVOA\_X  
 ClientSampled : TB

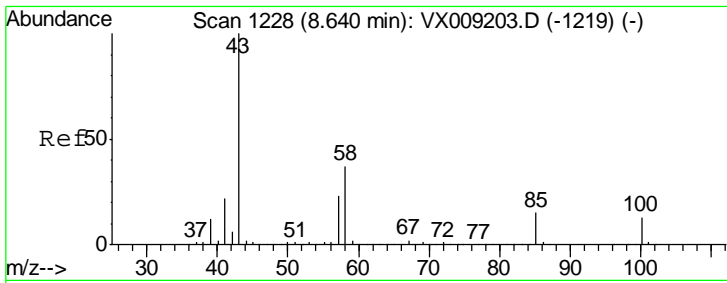
Tgt Ion	Resp	Lower	Upper
88	100		
43	86.4	28.6	42.8#
58	0.0	61.7	92.5#



#50  
 Toluene-d8  
 Concen: 49.231 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
98	100		
100	63.6	51.2	76.8

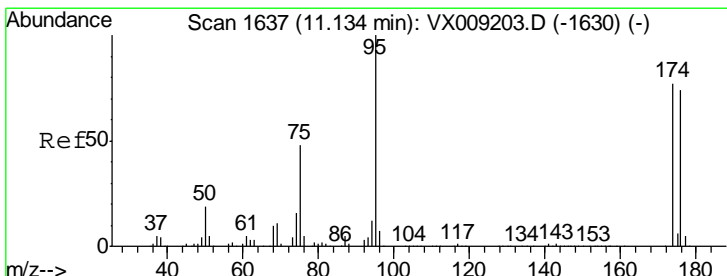
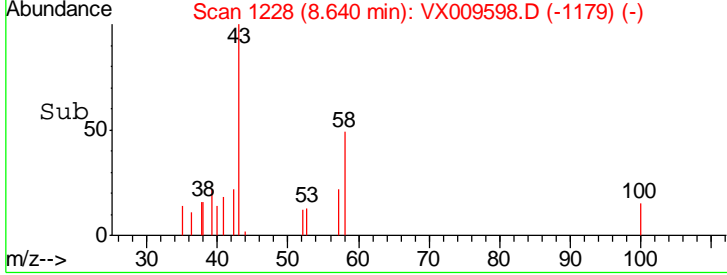
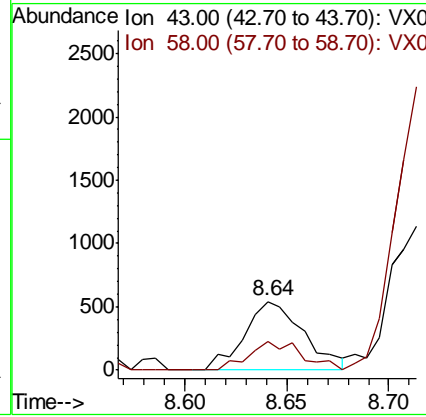
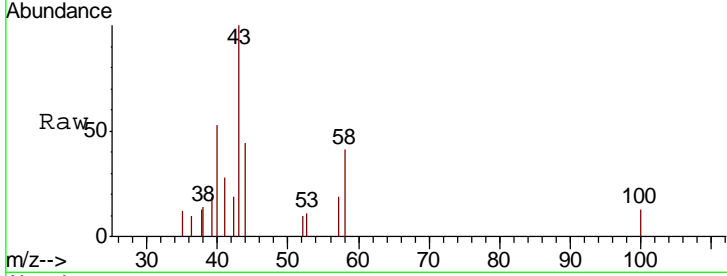




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.278 ug/l  
 RT: 8.64 min Scan# 1228  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

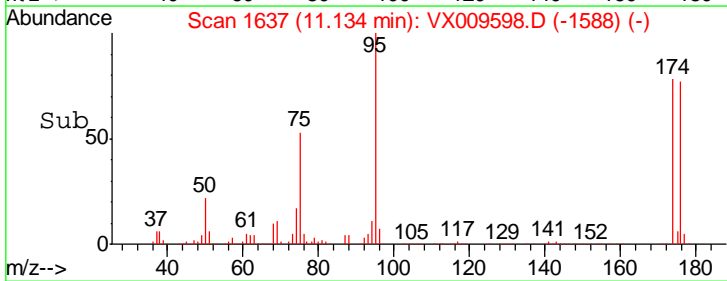
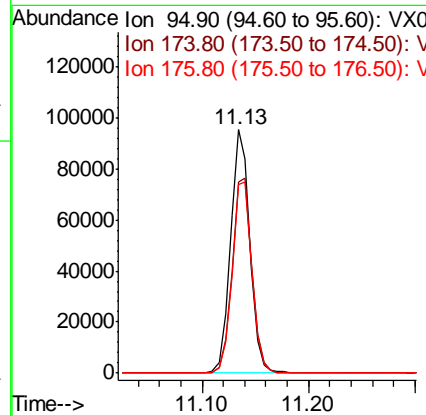
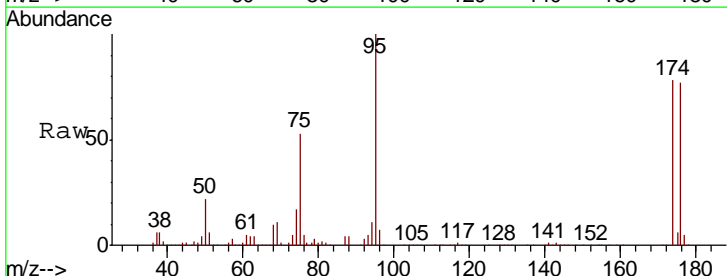
Instrument : MSVOA\_X  
 ClientSampled : TB

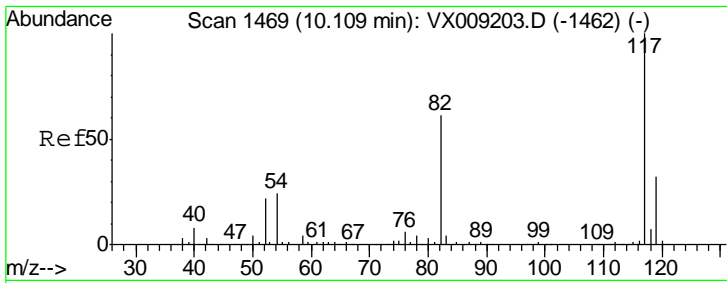
Tgt Ion	Resp	Lower	Upper
43	1093		
58	37.5	29.5	44.3



#62  
 4-Bromofluorobenzene  
 Concen: 44.900 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
95	120315		
174	82.5	0.0	161.6
176	80.5	0.0	159.2

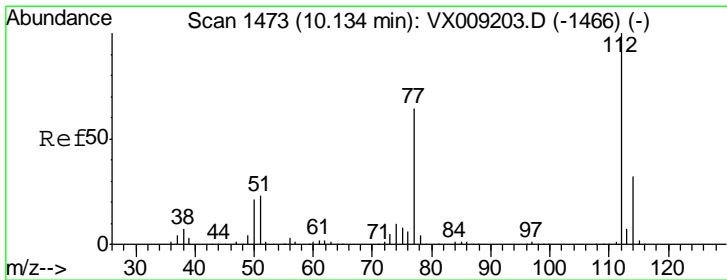
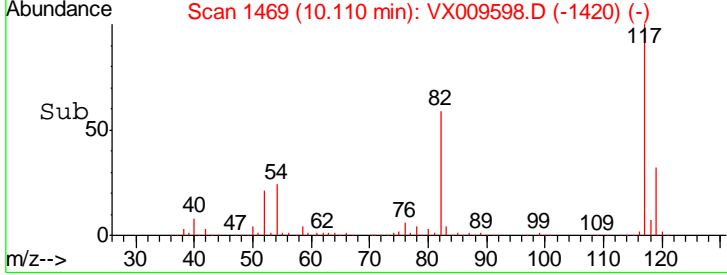
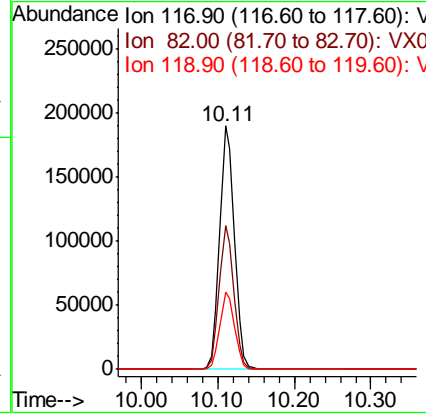
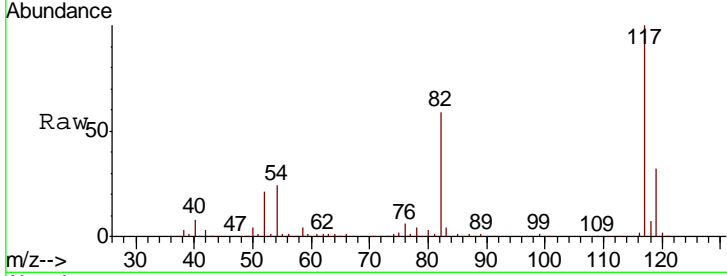




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 10.11 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

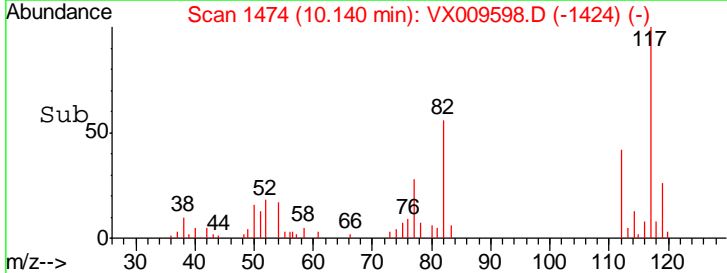
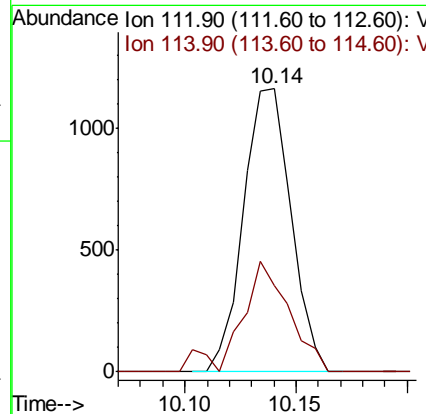
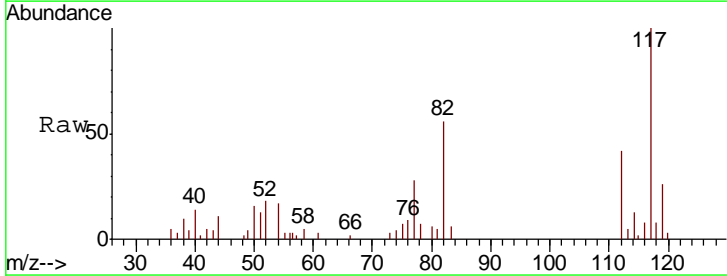
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB

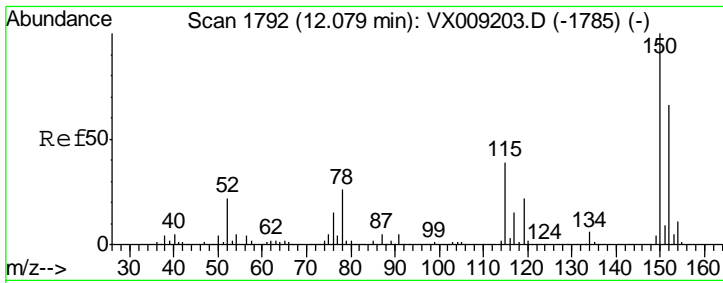
Tgt Ion	Resp	Lower	Upper
117	100		
82	59.1	48.8	73.2
119	31.6	25.8	38.6



#65  
 Chlorobenzene  
 Concen: 0.339 ug/l  
 RT: 10.14 min Scan# 1474  
 Delta R.T. 0.01 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
112	100		
114	30.3	25.5	38.3

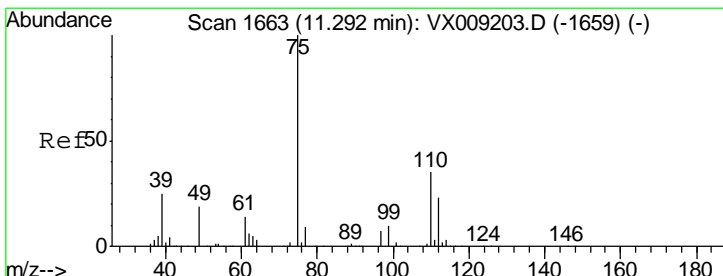
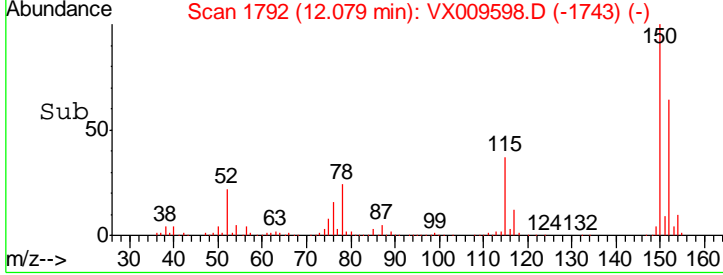
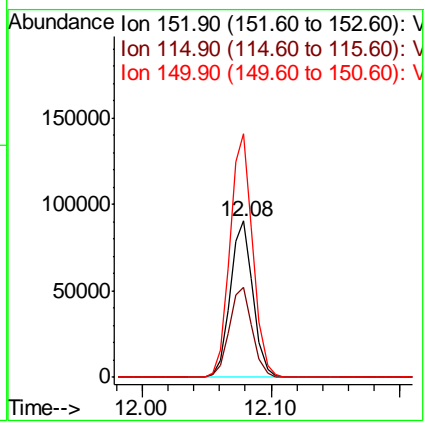
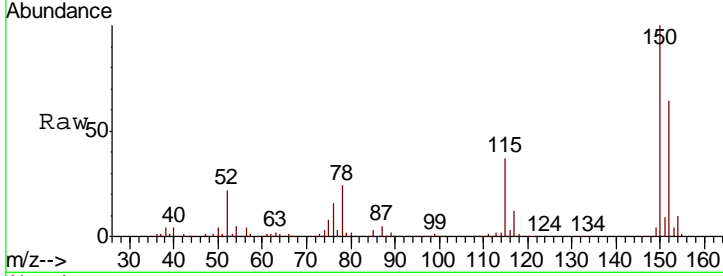




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. 0.00 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

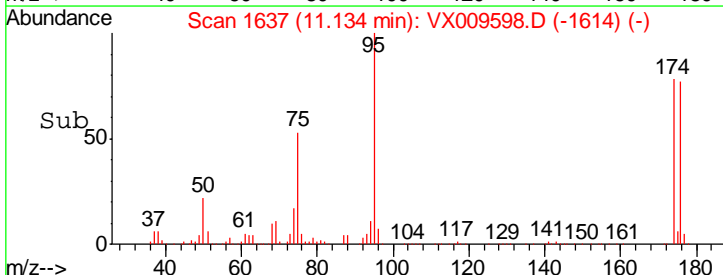
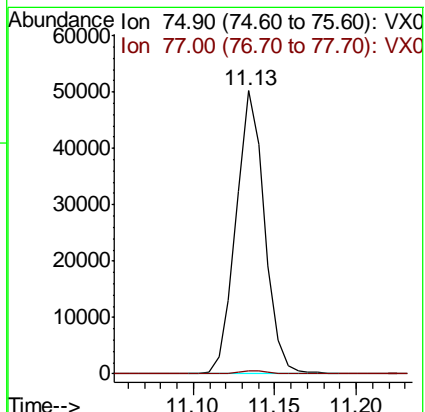
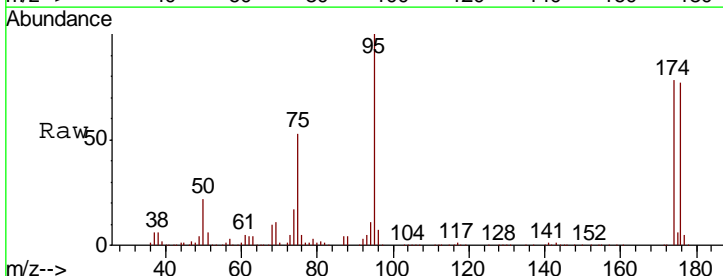
Instrument : MSVOA\_X  
 ClientSampled : TB

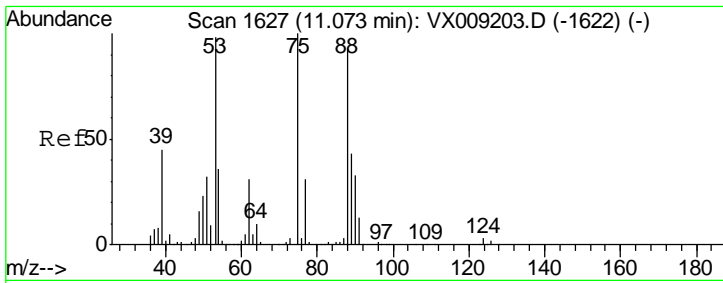
Tgt Ion	Resp	Lower	Upper
152	110755		
115	58.8	41.2	123.6
150	157.4	0.0	346.4



#76  
 1,2,3-Trichloropropane  
 Concen: 23.848 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
75	61268		
77	1.4	22.1	66.1#

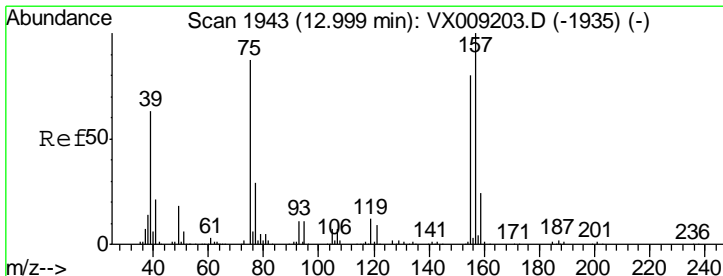
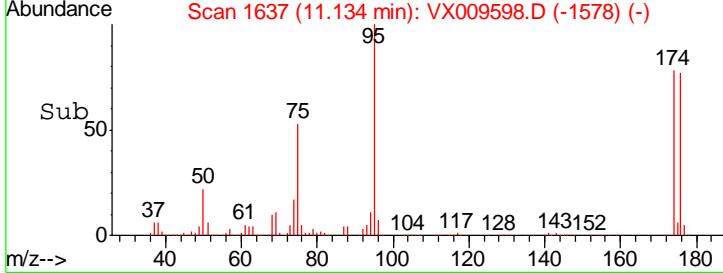
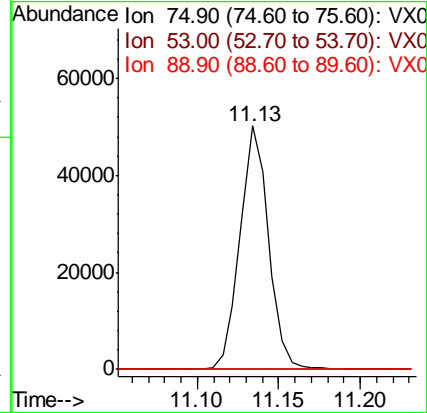
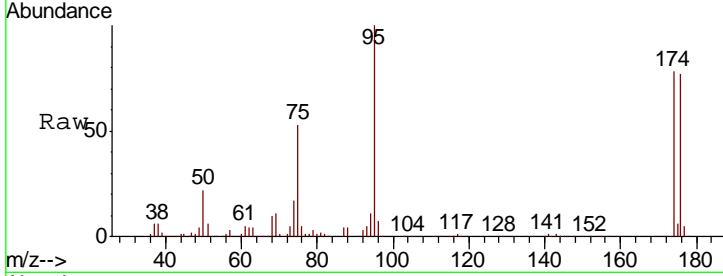




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 61.018 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB

Tgt Ion	Resp	Lower	Upper
75	100		
53	0.1	79.0	118.6#
89	0.0	34.7	52.1#



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.328 ug/l  
 RT: 12.97 min Scan# 1939  
 Delta R.T. -0.02 min  
 Lab File: VX009598.D  
 Acq: 16 May 2019 11:40

Tgt Ion	Resp	Lower	Upper
75	100		
155	0.0	42.0	126.0#
157	0.0	53.2	159.6#

