

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\  
 Data File : VX004457.D  
 Acq On : 10 Sep 2018 19:01  
 Operator : JC/MD  
 Sample : PB112704ZHE#05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB112704ZHE#05

Quant Time: Sep 11 01:22:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	291136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	483013	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	438206	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	267840	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	208724	55.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.02%	
35) Dibromofluoromethane	5.50	113	187257	52.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.22%	
50) Toluene-d8	8.71	98	706676	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
62) 4-Bromofluorobenzene	11.14	95	246752	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	

Target Compounds

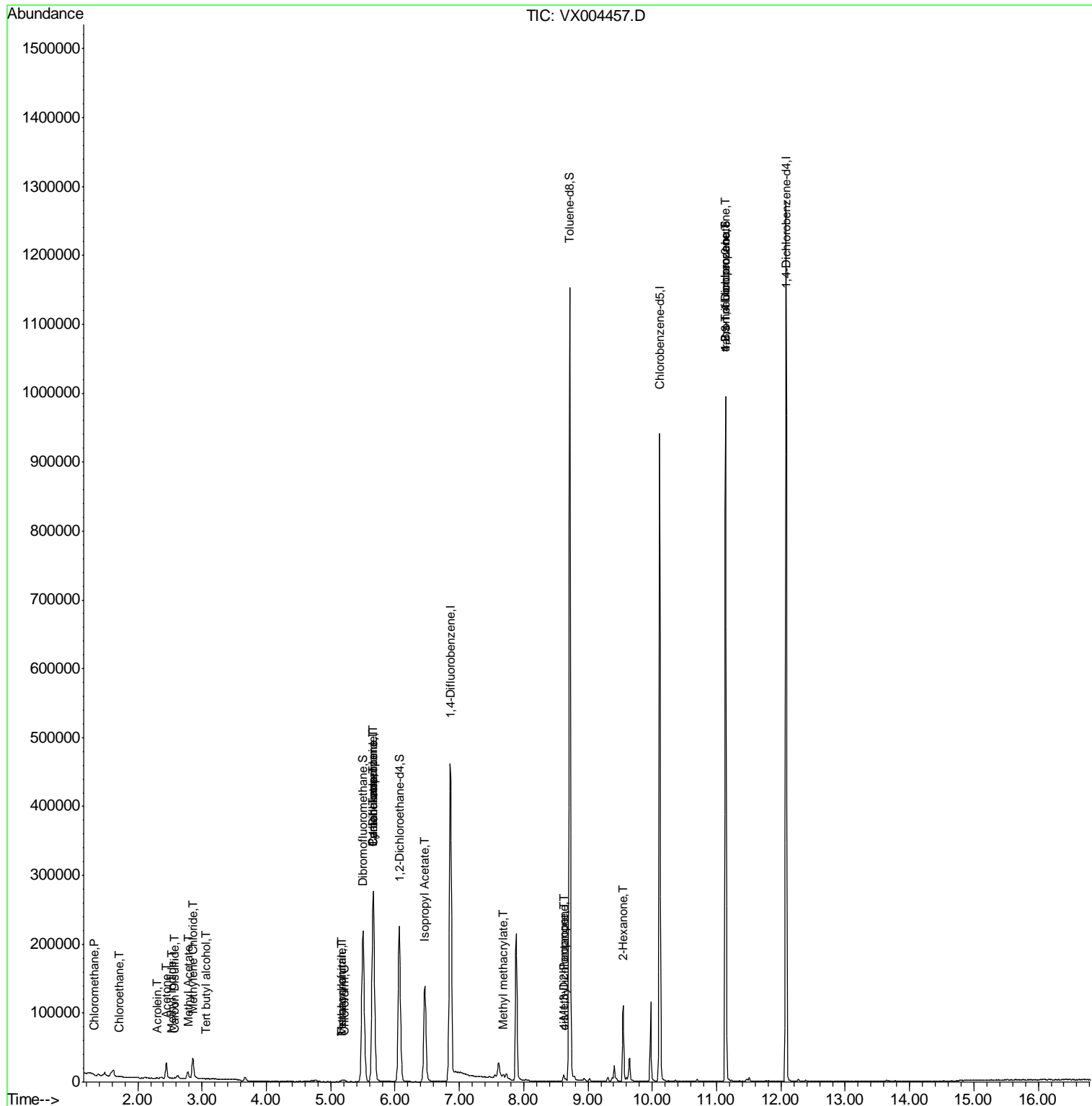
	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	586	0.45	ug/l	97
5) Bromomethane	1.64	94	392	Below Cal	#	59
6) Chloroethane	1.72	64	19	0.98	ug/l #	44
10) Methyl Iodide	2.53	142	167	4.31	ug/l #	41
11) Tert butyl alcohol	3.07	59	417	0.52	ug/l #	73
13) Acrolein	2.30	56	117	0.60	ug/l #	16
16) Acetone	2.45	43	23510	7.34	ug/l	96
17) Carbon Disulfide	2.56	76	511	0.86	ug/l #	84
18) Methyl Acetate	2.78	43	12918	2.29	ug/l	98
20) Methylene Chloride	2.85	84	14163	3.88	ug/l	98
25) 2-Butanone	4.71	43	2823	Below Cal		94
29) Tetrahydrofuran	5.17	42	1471	0.90	ug/l #	75
30) Chloroform	5.21	83	2762	0.45	ug/l	87
31) Cyclohexane	5.66	56	4837	0.91	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18734	3.45	ug/l #	49
38) Carbon Tetrachloride	5.67	117	24954	4.89	ug/l #	16
41) Methacrylonitrile	5.17	41	997	0.32	ug/l #	48
43) Isopropyl Acetate	6.46	43	178021	21.69	ug/l	100
48) Methyl methacrylate	7.69	41	7421	1.69	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2896	0.49	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1375	0.23	ug/l #	80
59) 2-Hexanone	9.55	43	11330	2.49	ug/l #	57
76) 1,2,3-Trichloropropane	11.14	75	116617	21.41	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	116617	69.46	ug/l #	10
94) Hexachlorobutadiene	13.78	225	176	Below Cal		79

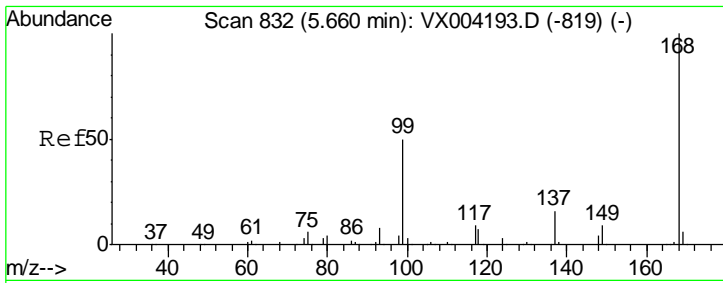
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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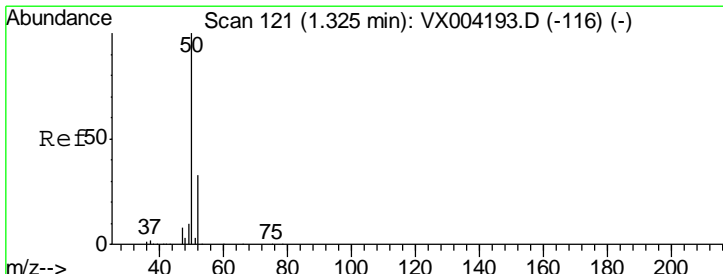
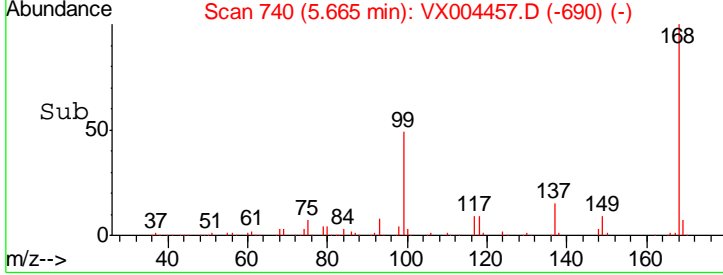
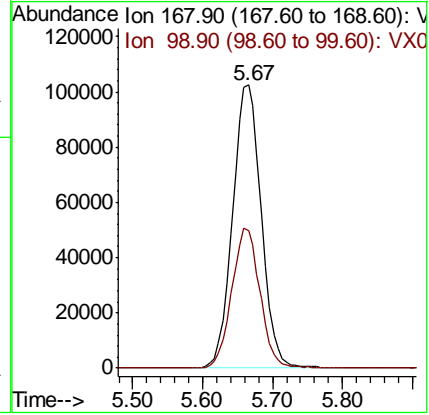
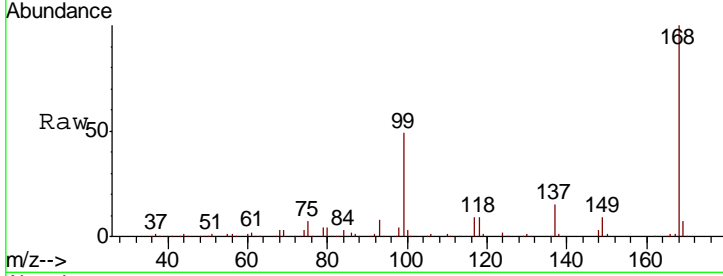




#1  
 Pentafluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. 0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

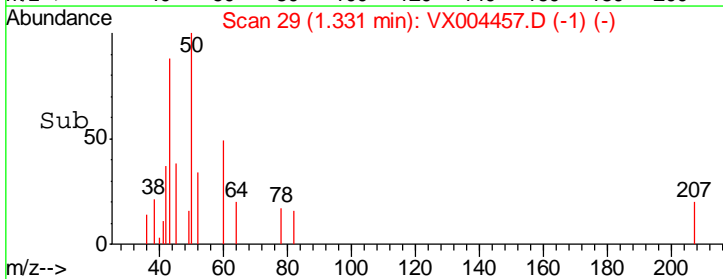
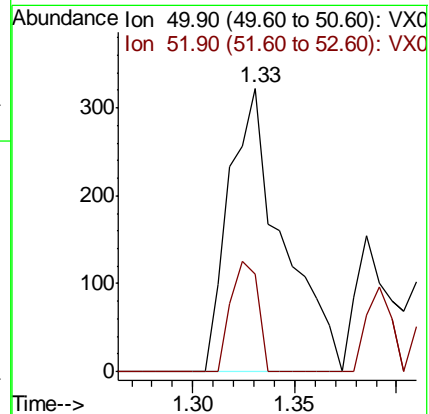
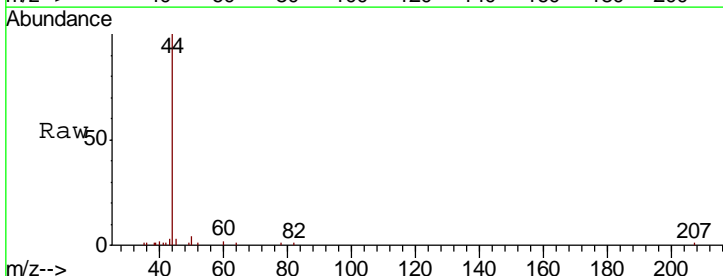
Instrument : MSVOA\_X  
 ClientSampleId : PB112704ZHE#05

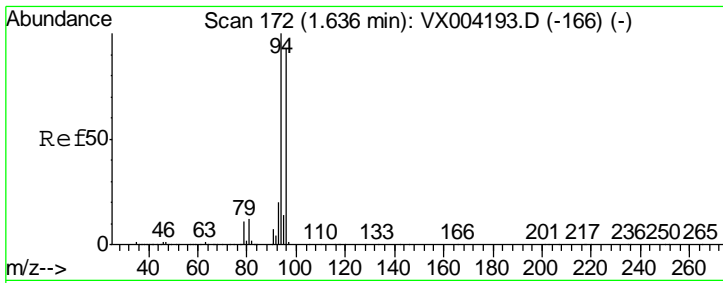
Tgt Ion	Resp	Lower	Upper
168	291136		
99	48.6	39.9	59.9



#3  
 Chloromethane  
 Concen: 0.45 ug/l  
 RT: 1.33 min Scan# 29  
 Delta R.T. 0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
50	586		
52	34.5	26.2	39.2

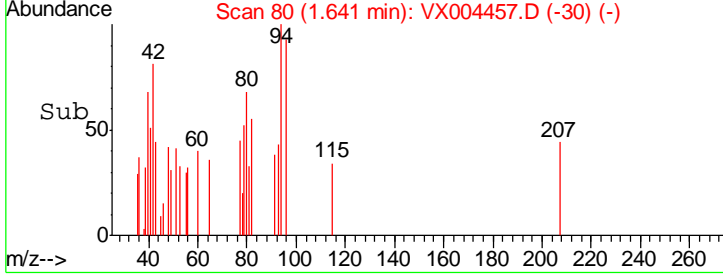
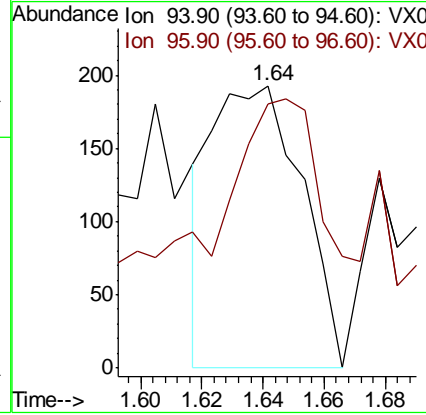
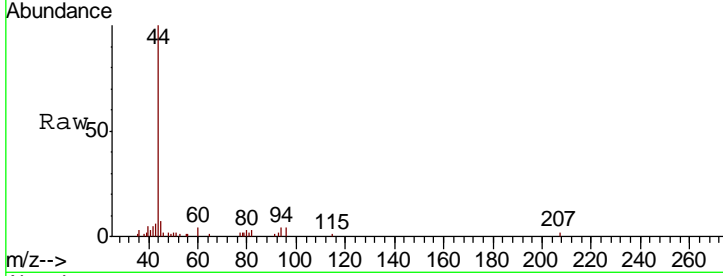




#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.64 min Scan# 80  
 Delta R.T. 0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

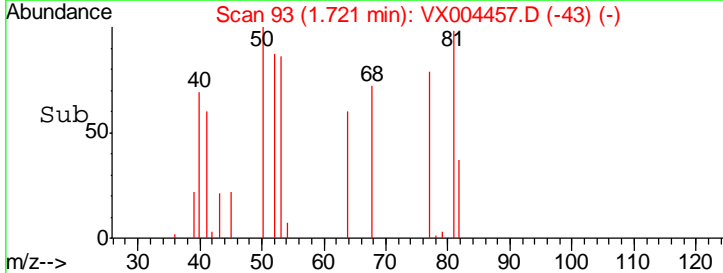
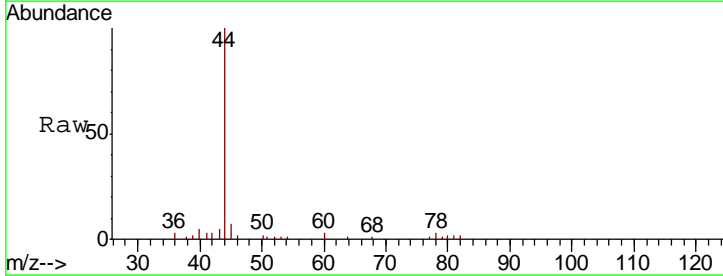
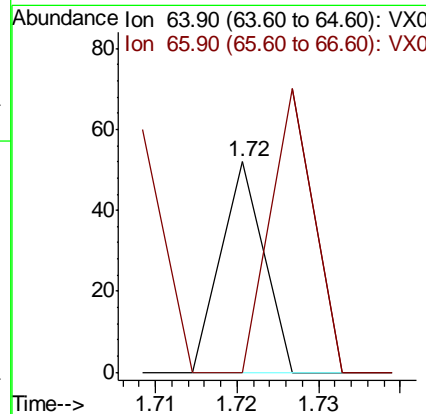
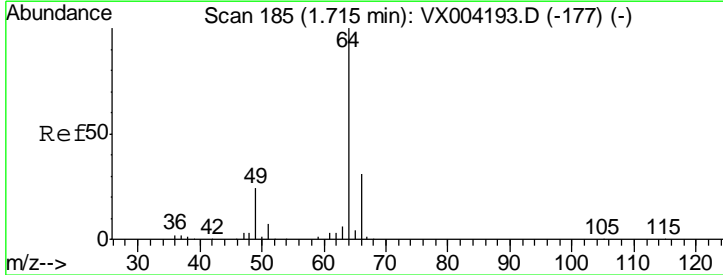
Instrument : MSVOA\_X  
 ClientSampled : PB112704ZHE#05

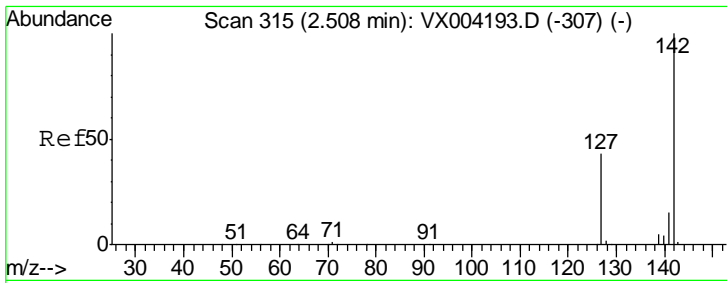
Tgt Ion: 94 Resp: 392  
 Ion Ratio Lower Upper  
 94 100  
 96 53.9 74.5 111.7#



#6  
 Chloroethane  
 Concen: 0.98 ug/l  
 RT: 1.72 min Scan# 93  
 Delta R.T. 0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion: 64 Resp: 19  
 Ion Ratio Lower Upper  
 64 100  
 66 0.0 24.6 36.8#

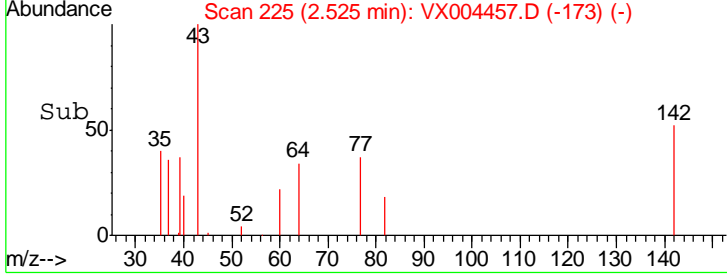
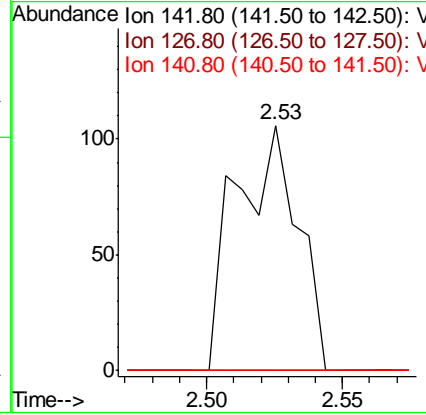
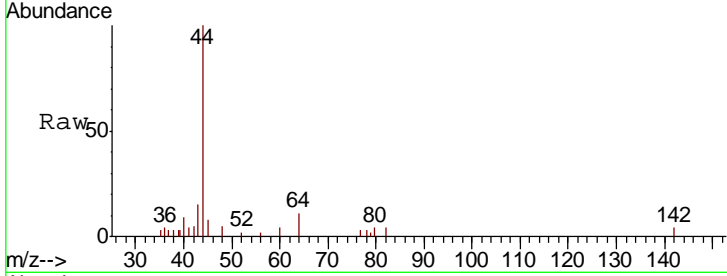




#10  
 Methyl Iodide  
 Concen: 4.31 ug/l  
 RT: 2.53 min Scan# 225  
 Delta R.T. 0.02 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

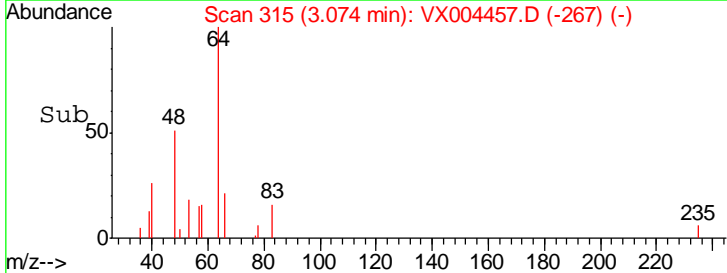
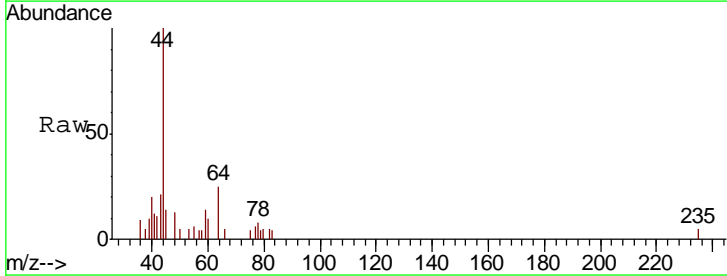
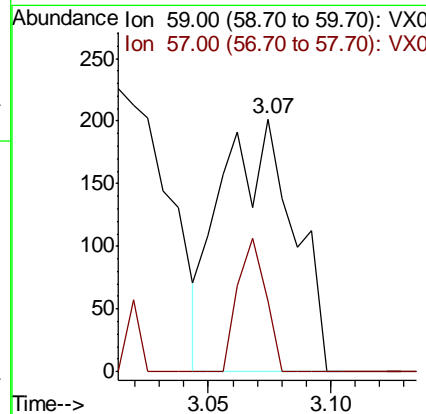
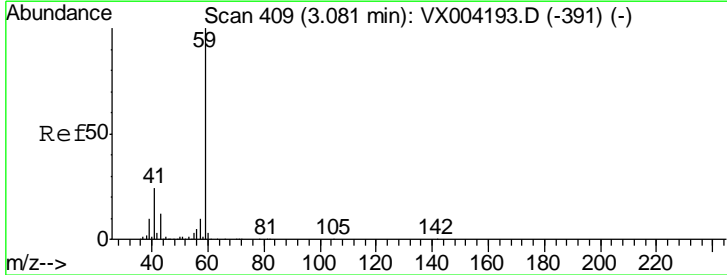
Instrument : MSVOA\_X  
 ClientSampled : PB112704ZHE#05

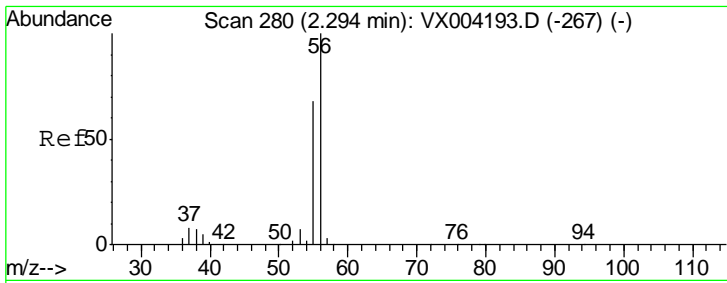
Tgt Ion	Resp	Lower	Upper
142	167		
127	0.0	33.8	50.6#
141	0.0	11.4	17.0#



#11  
 Tert butyl alcohol  
 Concen: 0.52 ug/l  
 RT: 3.07 min Scan# 315  
 Delta R.T. -0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
59	417		
57	20.4	8.2	12.4#

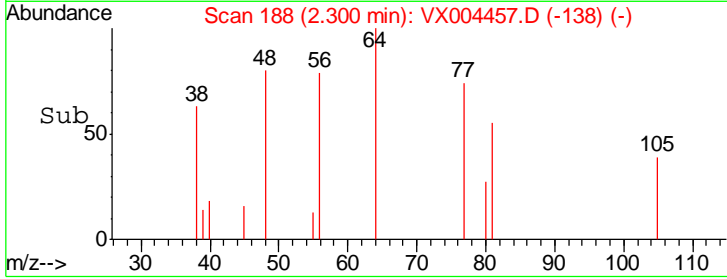
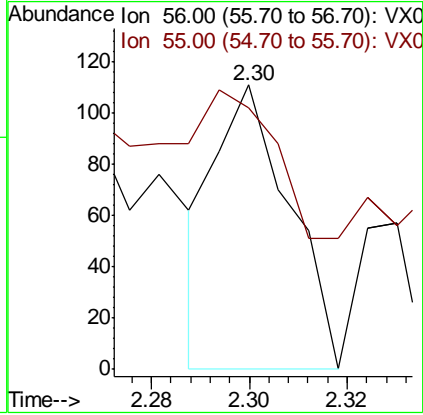
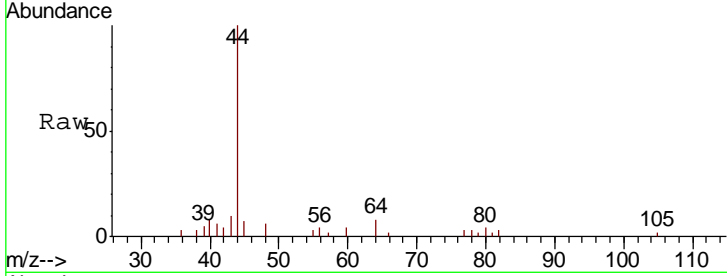




#13  
 Acrolein  
 Concen: 0.60 ug/l  
 RT: 2.30 min Scan# 188  
 Delta R.T. 0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

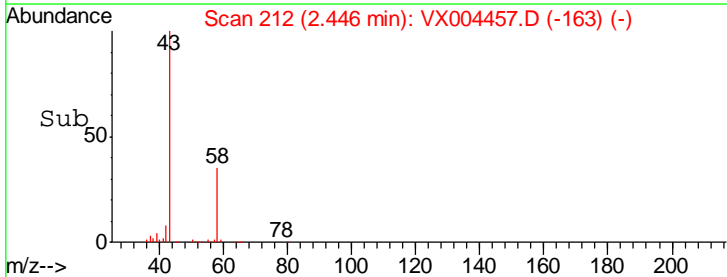
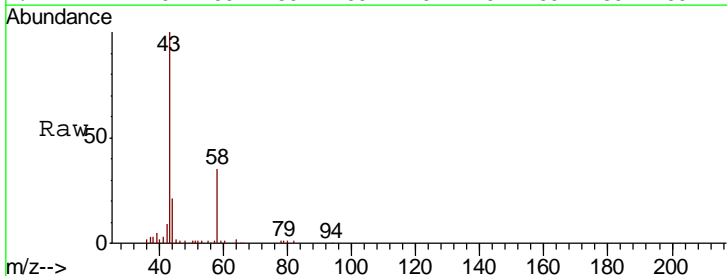
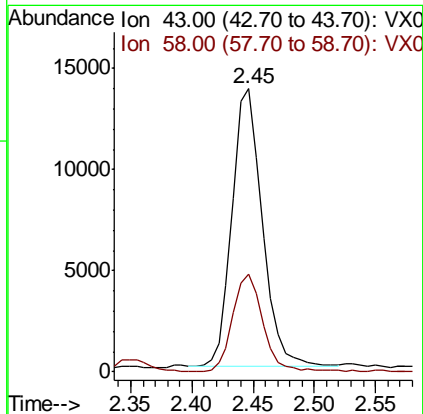
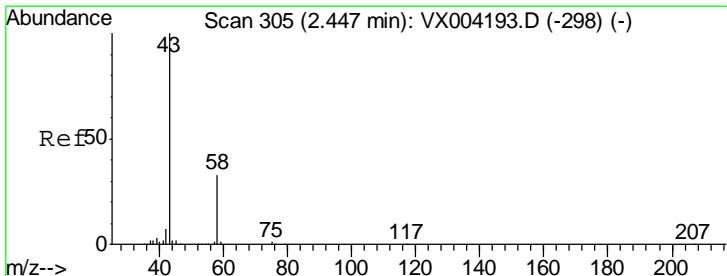
Instrument : MSVOA\_X  
 ClientSampled : PB112704ZHE#05

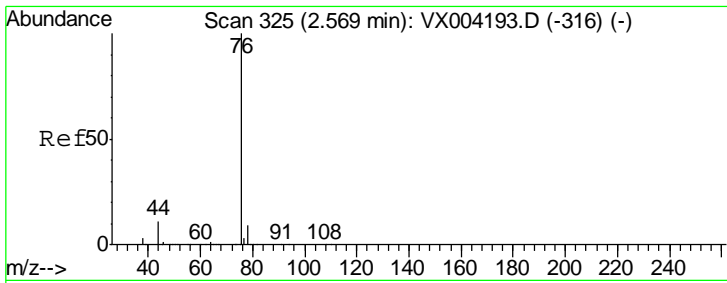
Tgt Ion: 56 Resp: 117  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 54.7 82.1#



#16  
 Acetone  
 Concen: 7.34 ug/l  
 RT: 2.45 min Scan# 212  
 Delta R.T. 0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion: 43 Resp: 23510  
 Ion Ratio Lower Upper  
 43 100  
 58 34.9 26.2 39.4

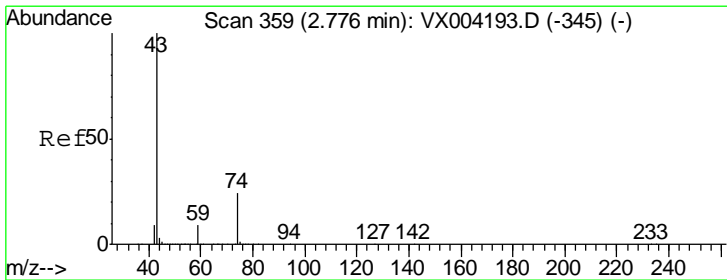
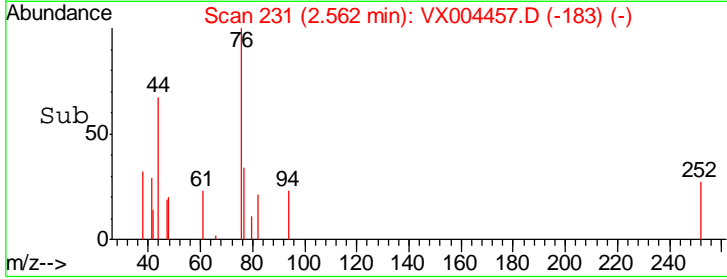
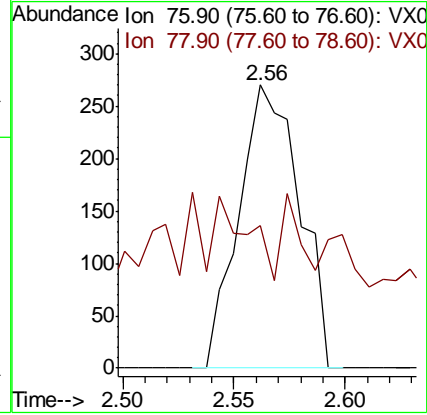
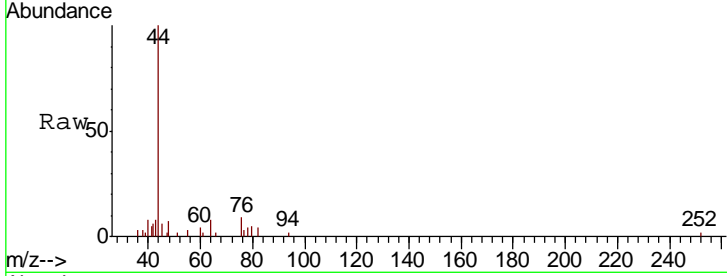




#17  
 Carbon Disulfide  
 Concen: 0.86 ug/l  
 RT: 2.56 min Scan# 231  
 Delta R.T. -0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

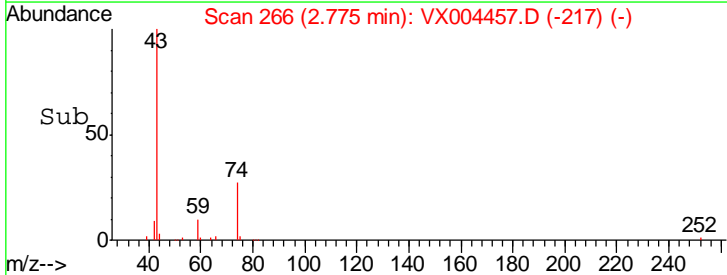
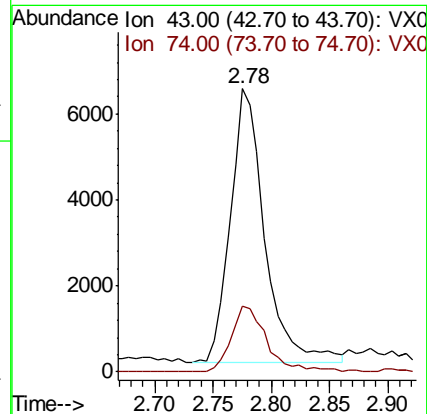
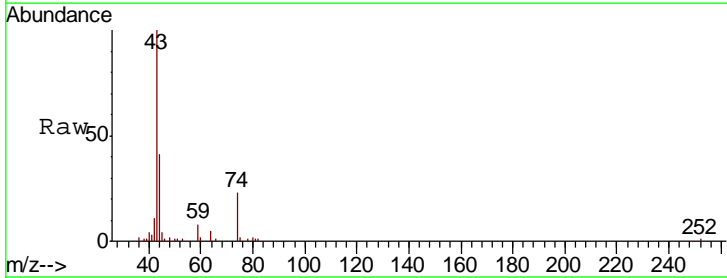
Instrument :  
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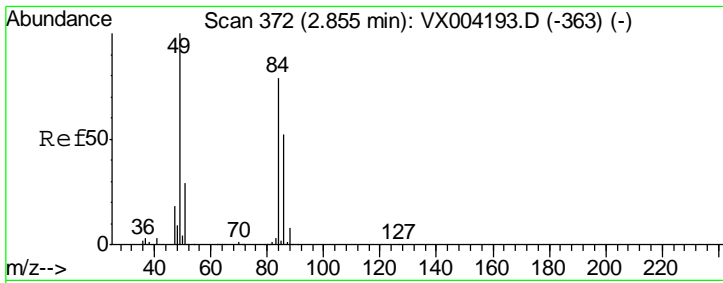
Tgt Ion	Resp	Lower	Upper
76	511		
76	100		
78	3.0	7.0	10.6#



#18  
 Methyl Acetate  
 Concen: 2.29 ug/l  
 RT: 2.78 min Scan# 266  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
43	12918		
43	100		
74	25.1	19.4	29.2

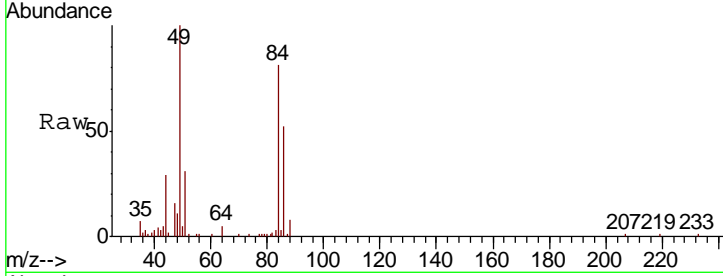




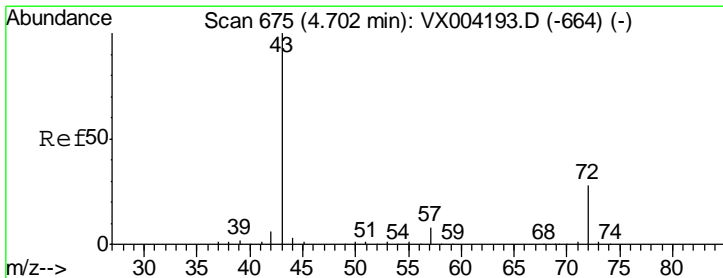
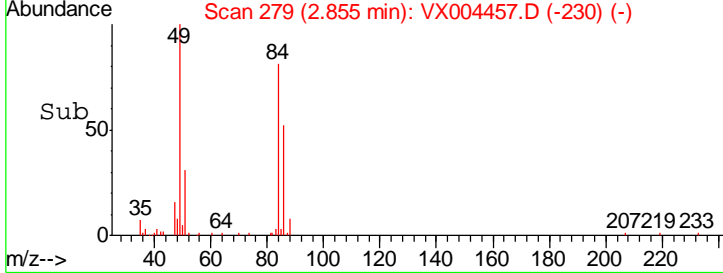
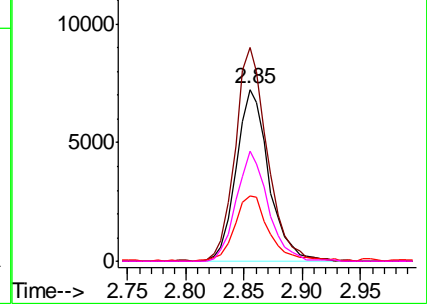
#20  
 Methylene Chloride  
 Concen: 3.88 ug/l  
 RT: 2.85 min Scan# 279  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 PB112704ZHE#05

Tgt Ion	Resp	Lower	Upper
84	14163		
49	124.2	101.2	151.8
51	38.1	29.5	44.3
86	64.1	52.3	78.5

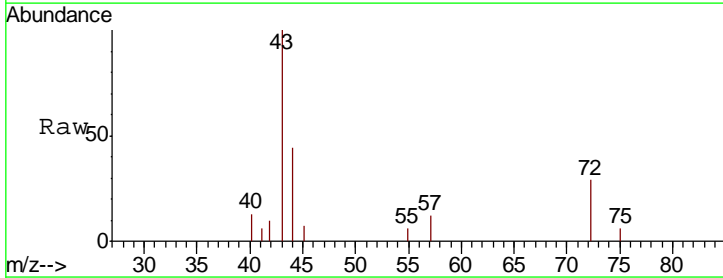


Abundance Ion 83.90 (83.60 to 84.60): VX0  
 Ion 48.90 (48.60 to 49.60): VX0  
 Ion 50.90 (50.60 to 51.60): VX0  
 Ion 85.90 (85.60 to 86.60): VX0

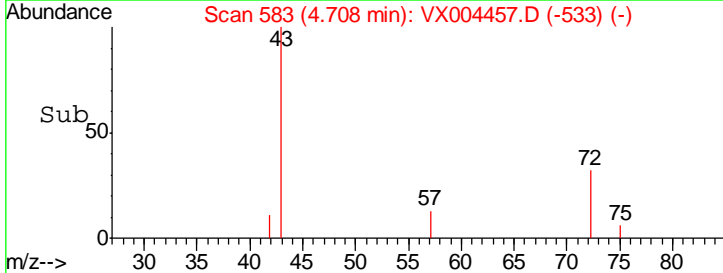
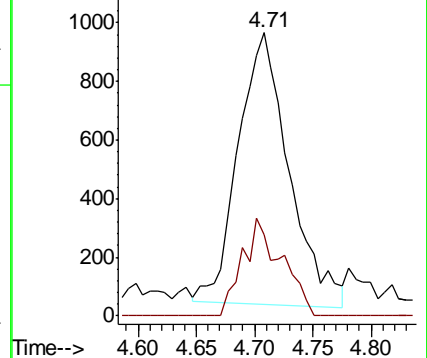


#25  
 2-Butanone  
 Concen: Below Cal  
 RT: 4.71 min Scan# 583  
 Delta R.T. 0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

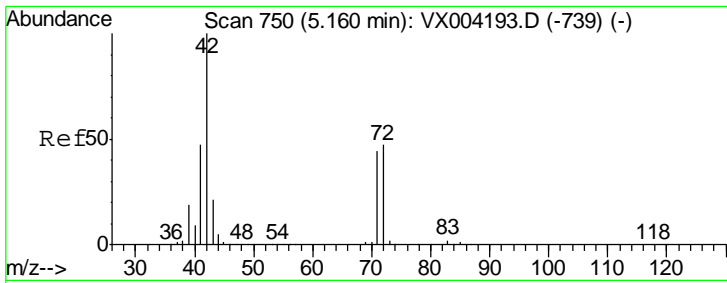
Tgt Ion	Resp	Lower	Upper
43	2823		
72	30.7	22.0	33.0



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



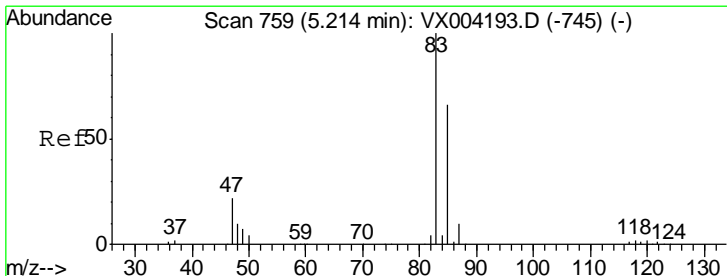
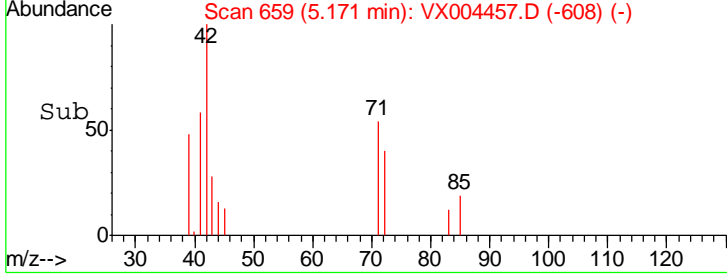
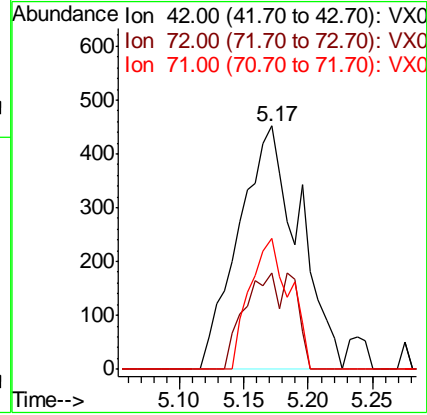
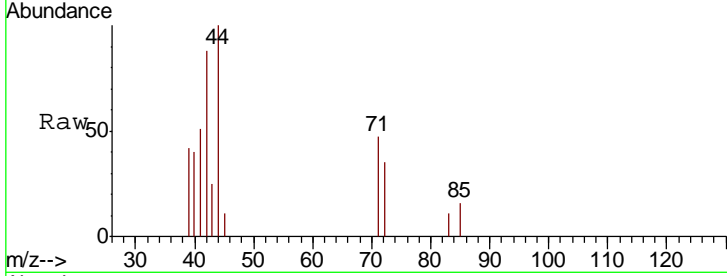




#29  
 Tetrahydrofuran  
 Concen: 0.90 ug/l  
 RT: 5.17 min Scan# 659  
 Delta R.T. 0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

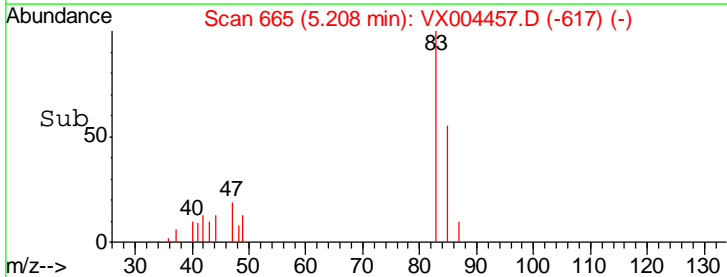
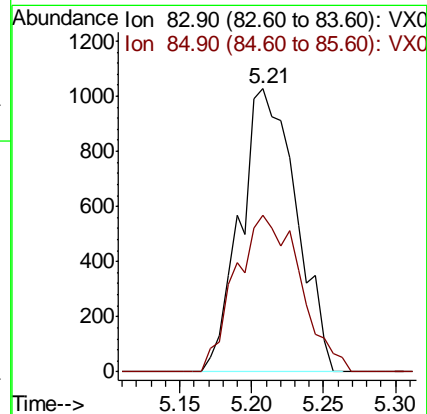
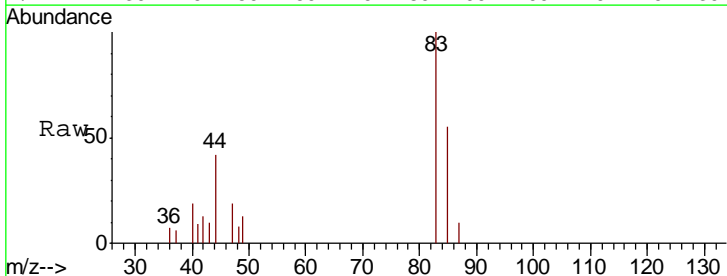
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB112704ZHE#05

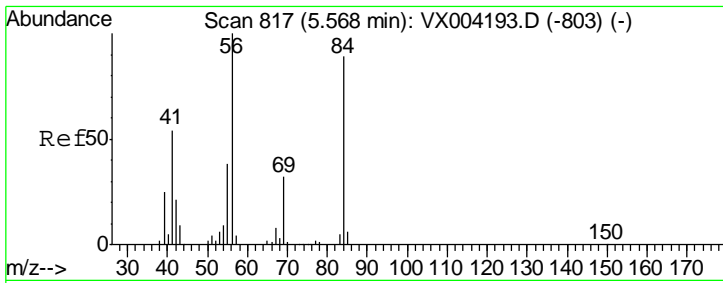
Tgt Ion	Resp	Lower	Upper
42	1471		
72	22.2	37.4	56.0#
71	35.6	34.5	51.7



#30  
 Chloroform  
 Concen: 0.45 ug/l  
 RT: 5.21 min Scan# 665  
 Delta R.T. -0.01 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
83	2762		
85	55.2	52.6	79.0

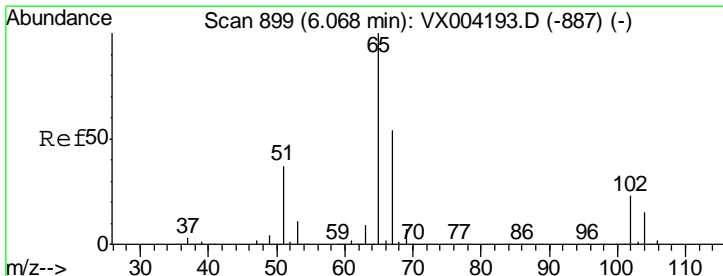
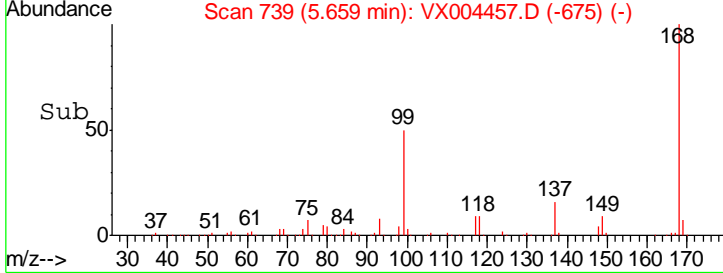
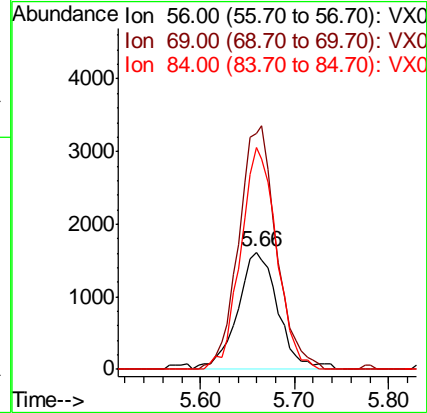
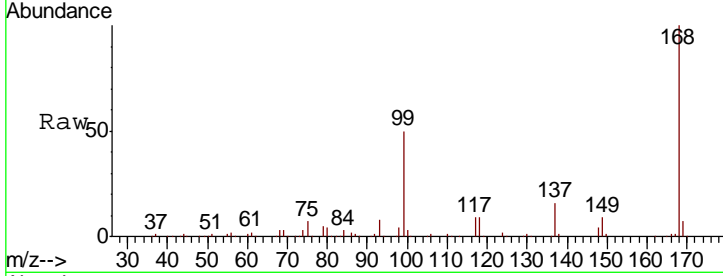




#31  
 Cyclohexane  
 Concen: 0.91 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. 0.09 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

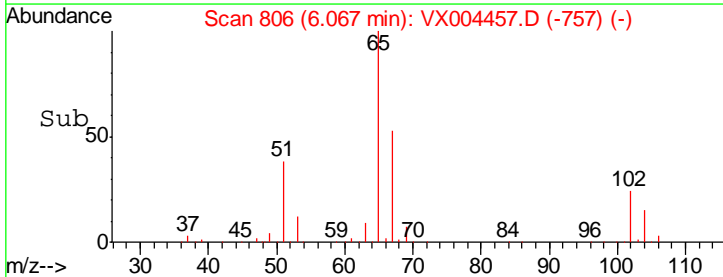
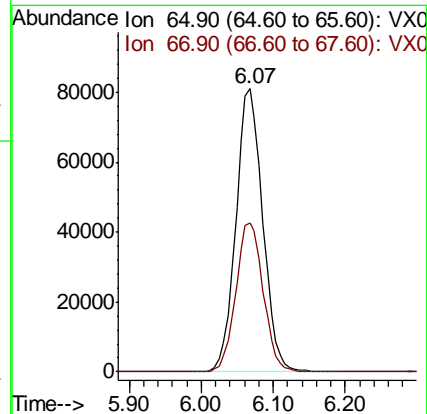
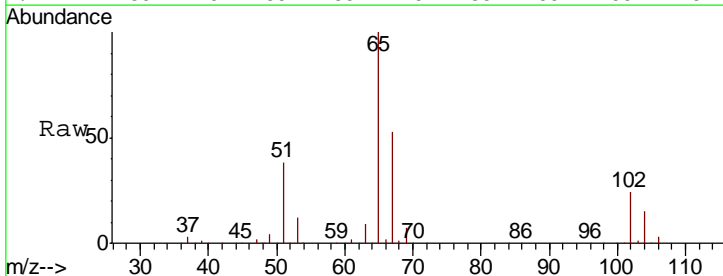
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB112704ZHE#05

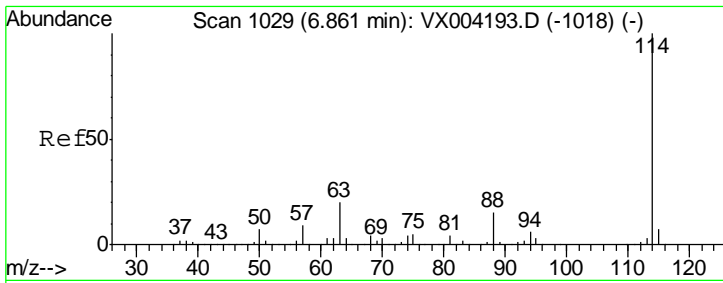
Tgt Ion	Resp	Lower	Upper
56	100		
69	201.3	25.4	38.2#
84	189.0	71.4	107.2#



#33  
 1,2-Dichloroethane-d4  
 Concen: 55.01 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
65	100		
67	53.9	0.0	106.8

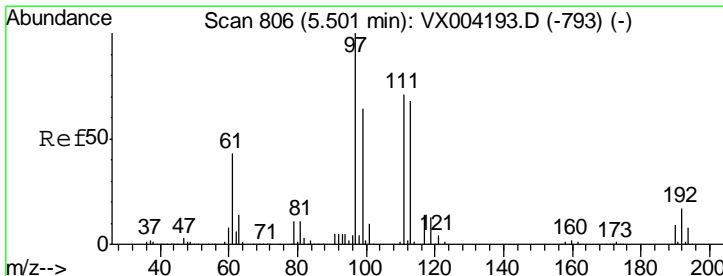
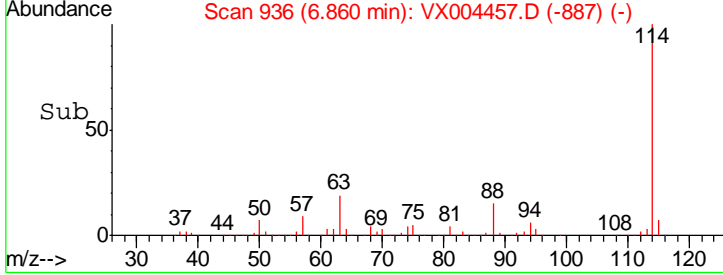
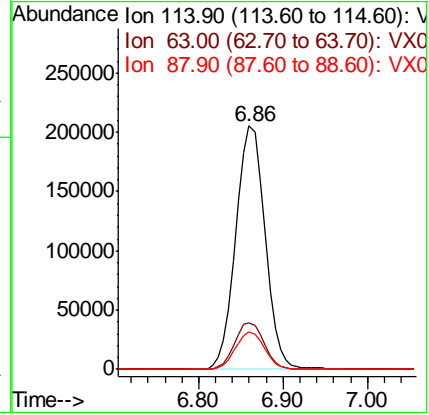
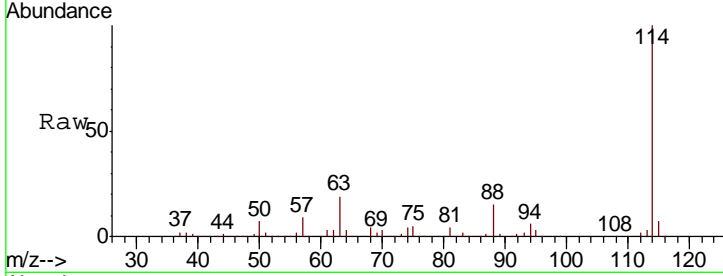




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

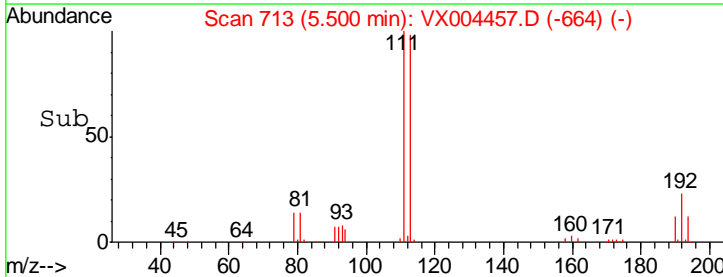
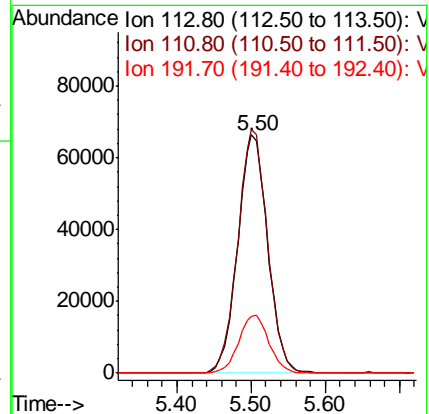
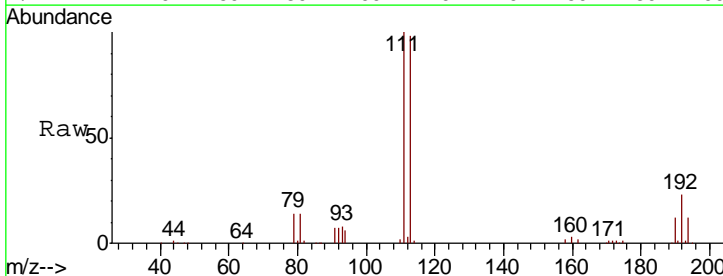
Instrument : MSVOA\_X  
 ClientSampleID : PB112704ZHE#05

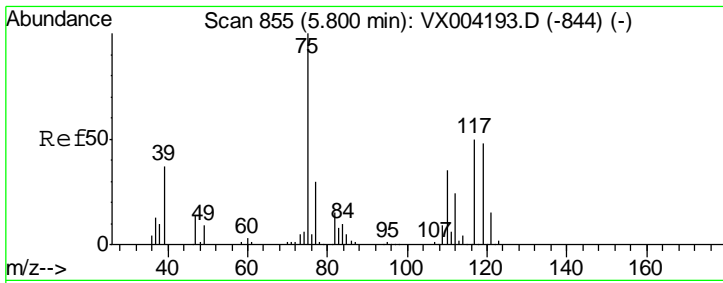
Tgt Ion	Resp	Lower	Upper
114	483013		
63	19.4	0.0	39.0
88	15.3	0.0	30.4



#35  
 Dibromofluoromethane  
 Concen: 52.11 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
113	187257		
111	101.5	82.4	123.6
192	24.4	19.4	29.2

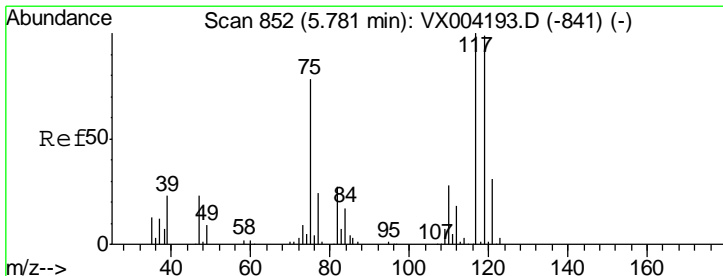
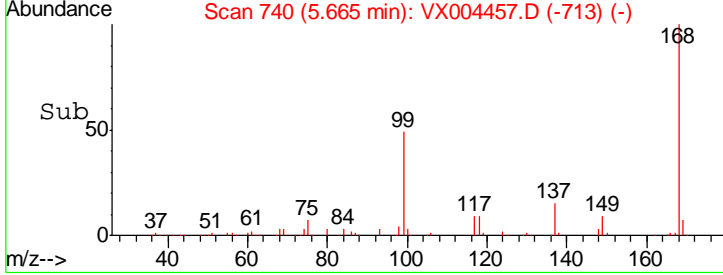
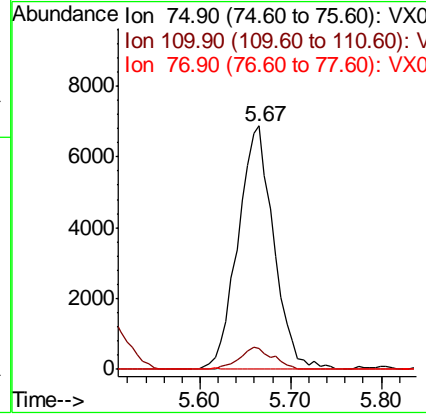
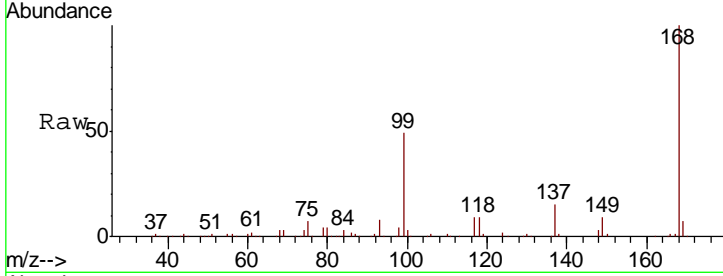




#36  
 1,1-Dichloropropene  
 Concen: 3.45 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

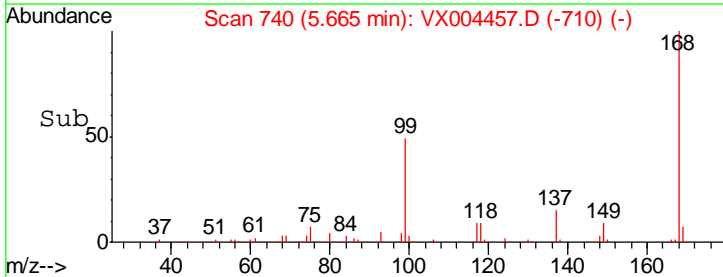
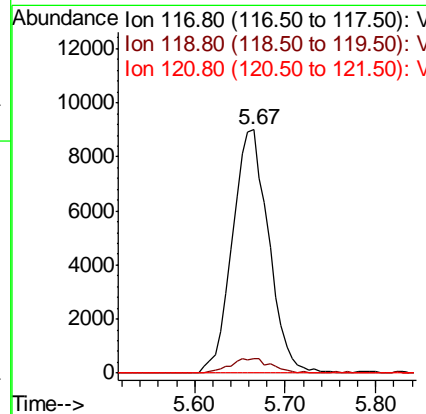
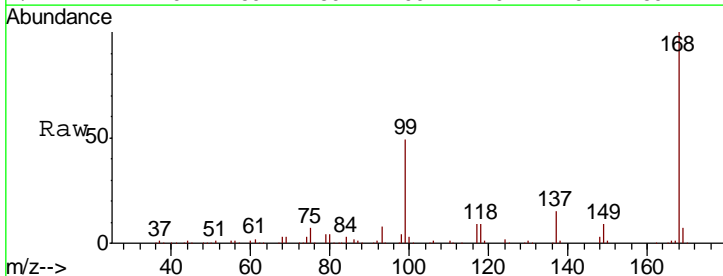
Instrument : MSVOA\_X  
 ClientSampleId : PB112704ZHE#05

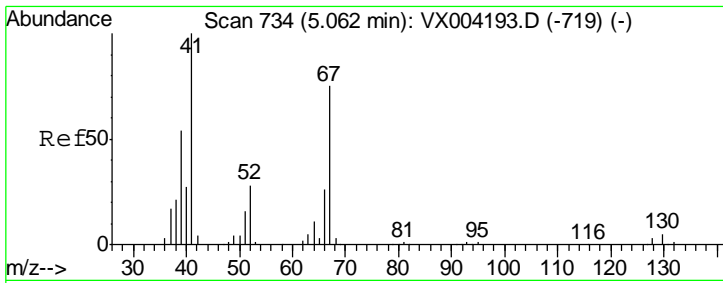
Tgt Ion	Resp	Lower	Upper
75	18734		
110	8.5	18.0	54.0#
77	0.0	24.6	36.8#



#38  
 Carbon Tetrachloride  
 Concen: 4.89 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
117	24954		
119	6.2	78.8	118.2#
121	0.0	24.9	37.3#

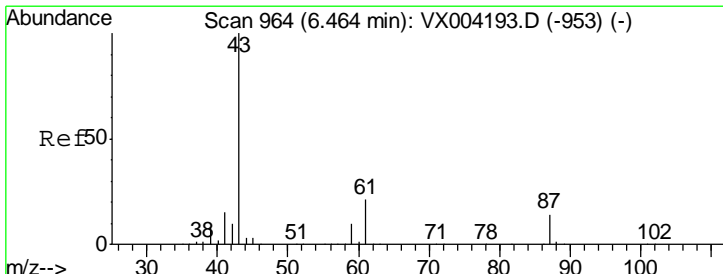
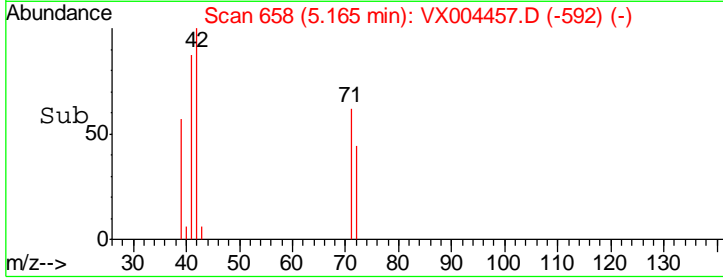
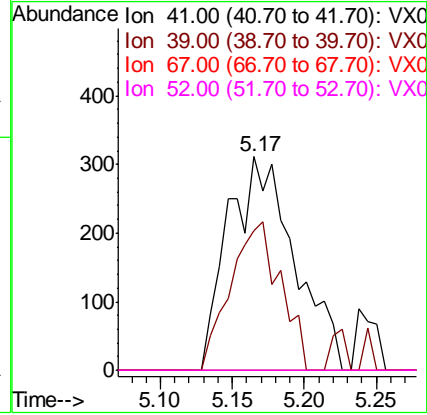
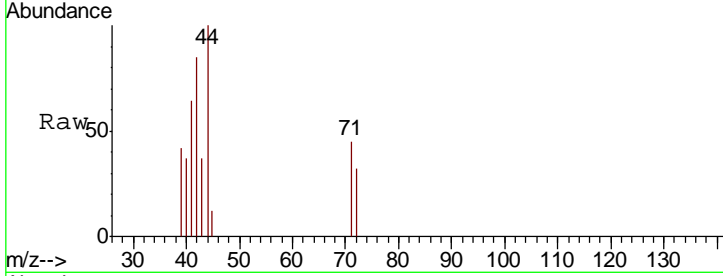




#41  
 Methacrylonitrile  
 Concen: 0.32 ug/l  
 RT: 5.17 min Scan# 658  
 Delta R.T. 0.10 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

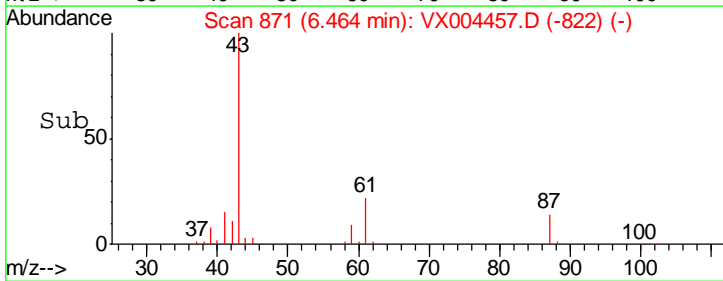
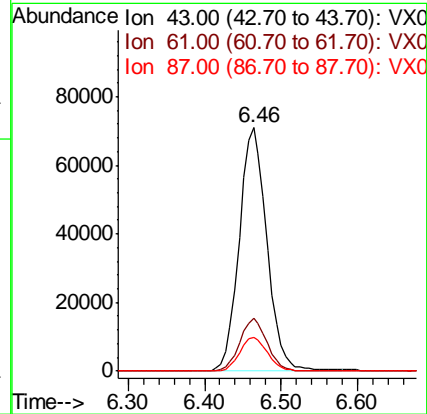
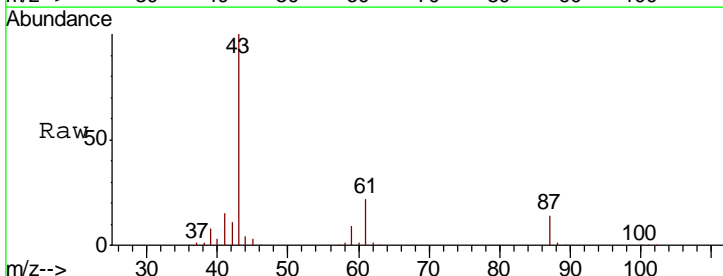
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB112704ZHE#05

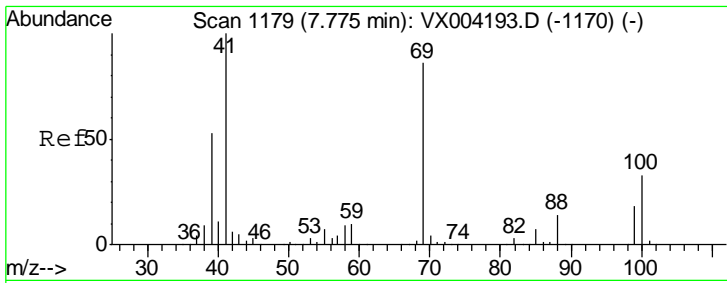
Tgt Ion	Resp	Lower	Upper
41	100		
39	52.4	42.4	63.6
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43  
 Isopropyl Acetate  
 Concen: 21.69 ug/l  
 RT: 6.46 min Scan# 871  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
43	100		
61	21.2	17.0	25.4
87	13.9	11.4	17.2

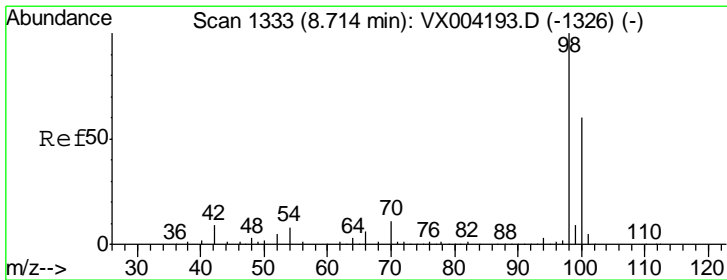
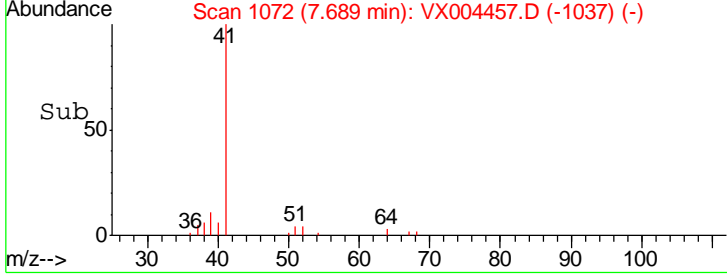
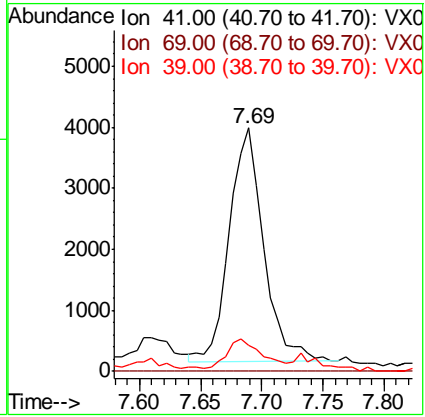
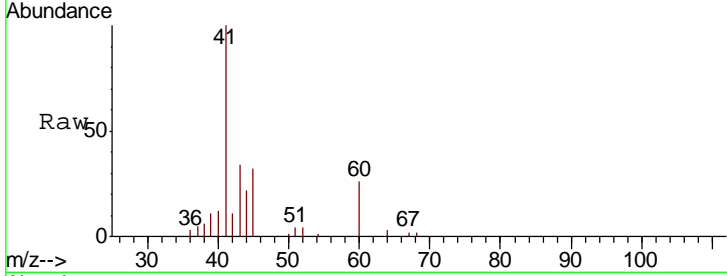




#48  
 Methyl methacrylate  
 Concen: 1.69 ug/l  
 RT: 7.69 min Scan# 1072  
 Delta R.T. -0.09 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

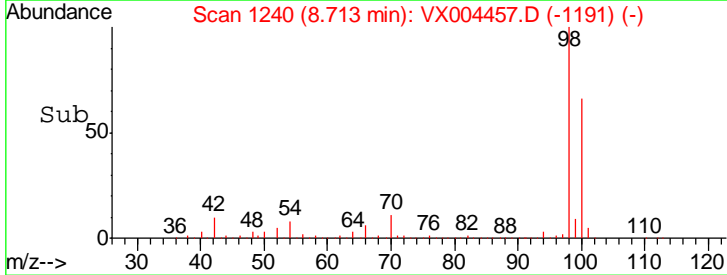
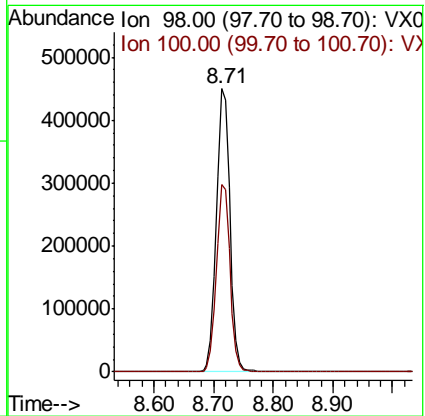
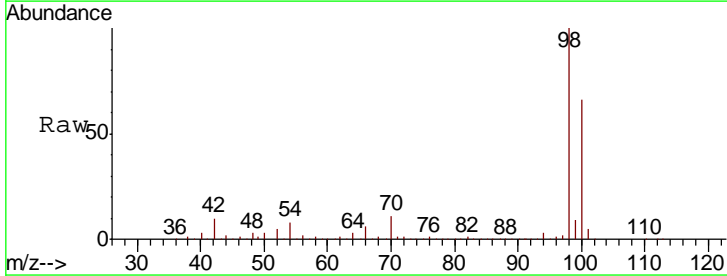
Instrument : MSVOA\_X  
 ClientSampled : PB112704ZHE#05

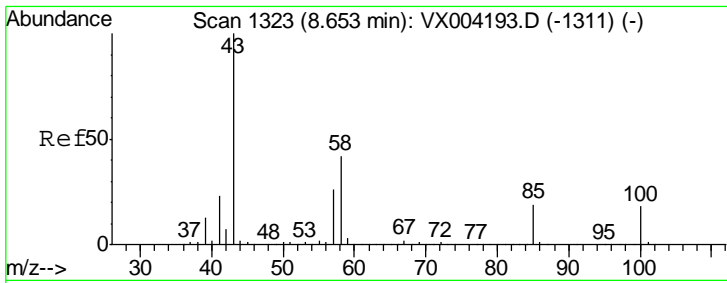
Tgt Ion	Resp	Lower	Upper
41	100		
69	0.0	70.2	105.4#
39	14.8	42.7	64.1#



#50  
 Toluene-d8  
 Concen: 52.10 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
98	100		
100	65.8	52.9	79.3

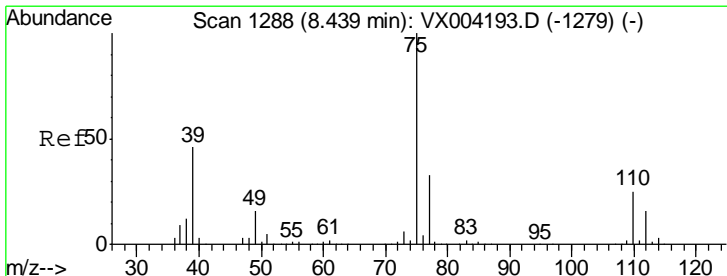
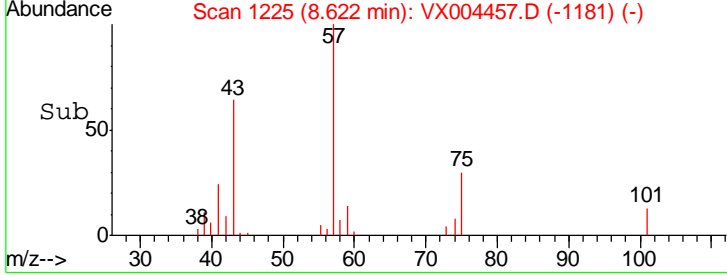
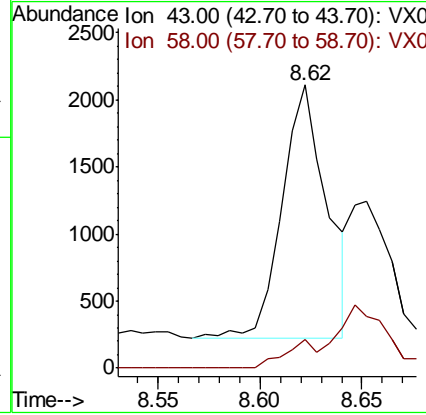
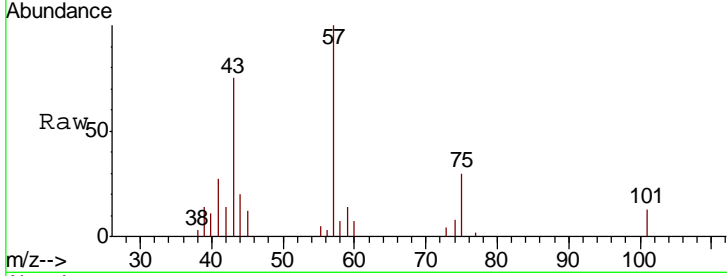




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.49 ug/l  
 RT: 8.62 min Scan# 1225  
 Delta R.T. -0.03 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

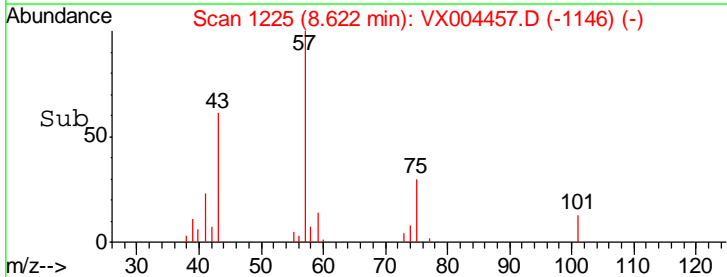
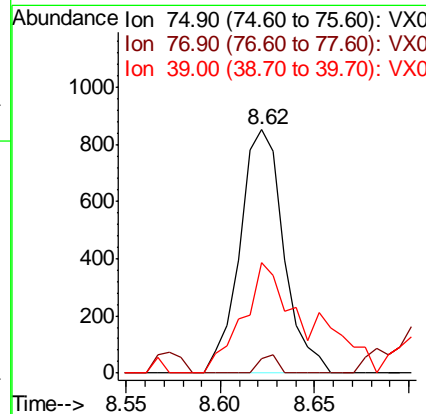
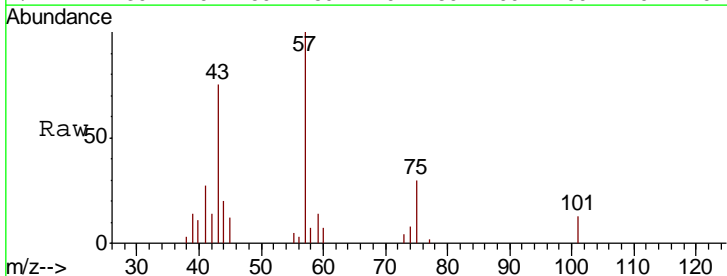
Instrument : MSVOA\_X  
 ClientSampleId : PB112704ZHE#05

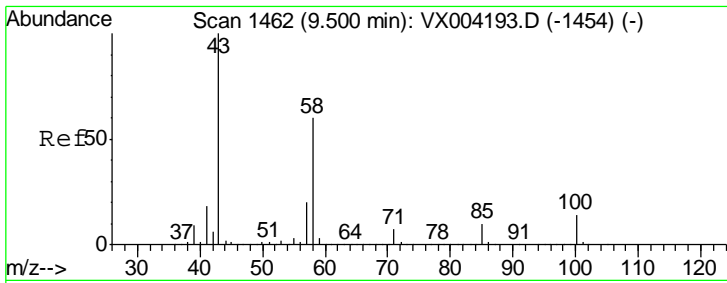
Tgt Ion	Resp	Lower	Upper
43	100		
58	0.0	33.1	49.7#



#54  
 cis-1,3-Dichloropropene  
 Concen: 0.23 ug/l  
 RT: 8.62 min Scan# 1225  
 Delta R.T. 0.18 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
75	100		
77	6.0	26.2	39.2#
39	45.3	36.4	54.6

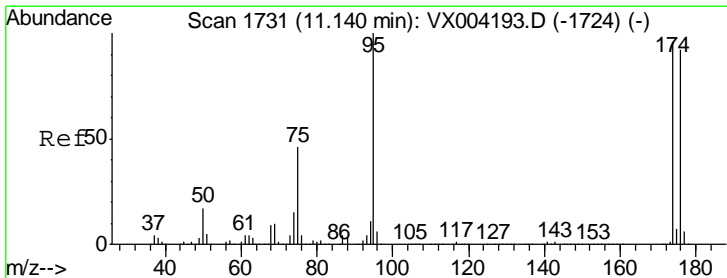
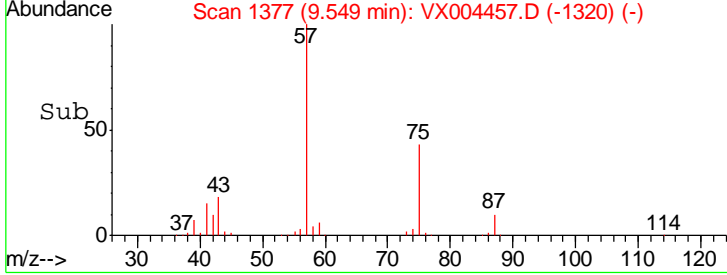
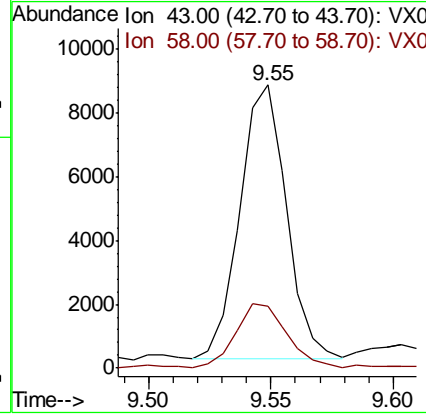
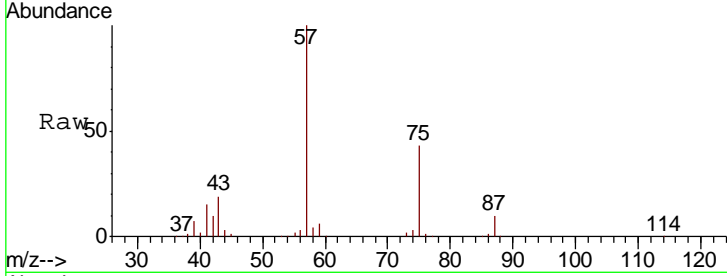




#59  
 2-Hexanone  
 Concen: 2.49 ug/l  
 RT: 9.55 min Scan# 1377  
 Delta R.T. 0.05 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

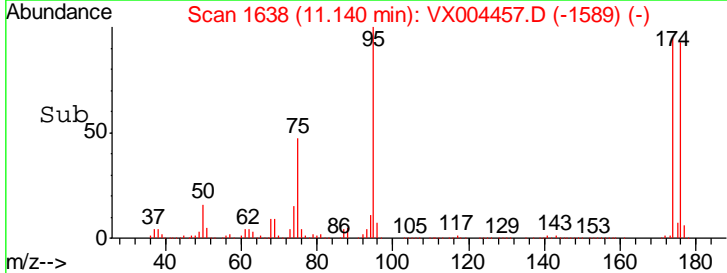
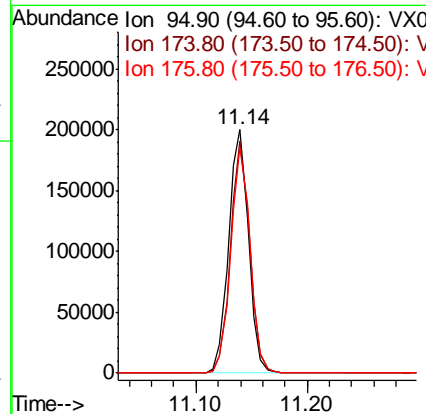
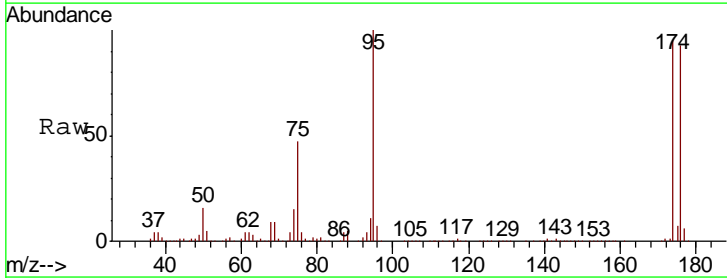
Instrument : MSVOA\_X  
 ClientSampleID : PB112704ZHE#05

Tgt Ion	Resp	Lower	Upper
43	100		
58	26.0	29.0	87.0#

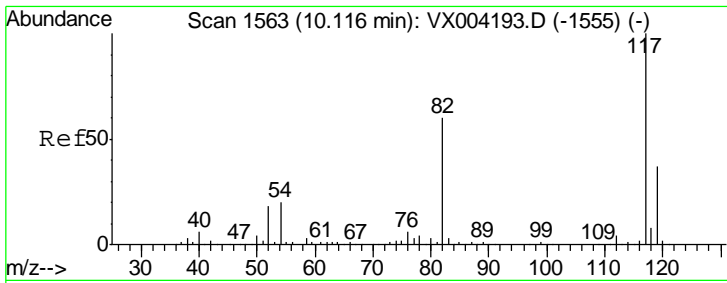


#62  
 4-Bromofluorobenzene  
 Concen: 48.76 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
95	100		
174	92.8	0.0	185.2
176	90.5	0.0	178.6



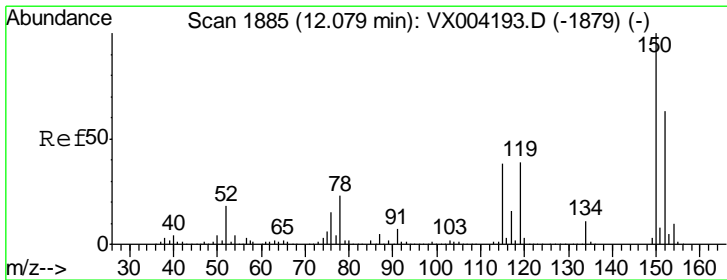
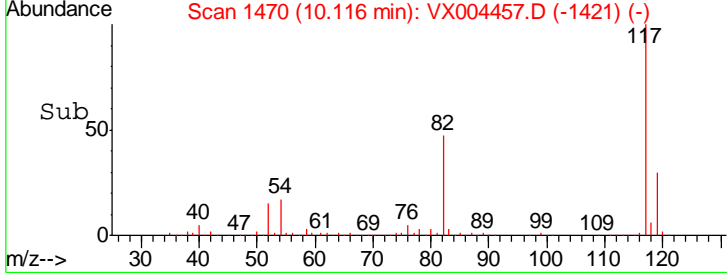
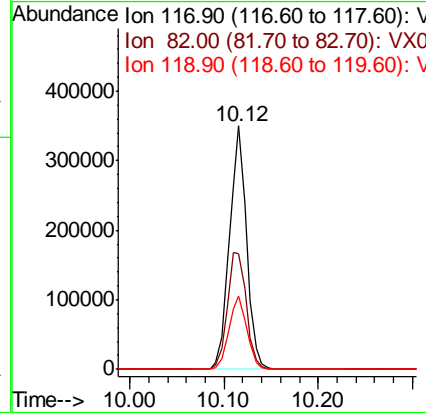
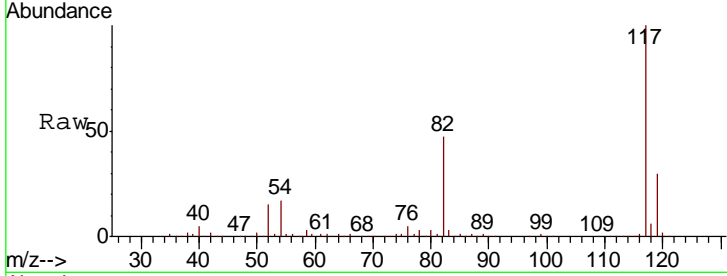




#63  
 Chlorobenzene-d5  
 Concen: 50.00 ug/l  
 RT: 10.12 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

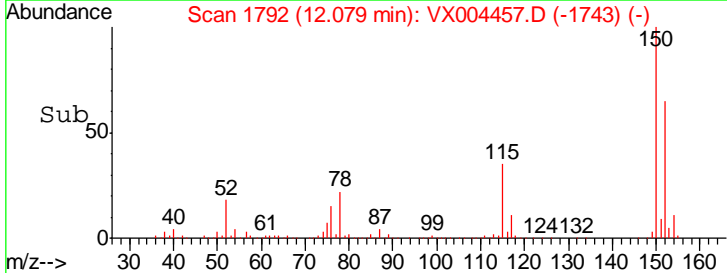
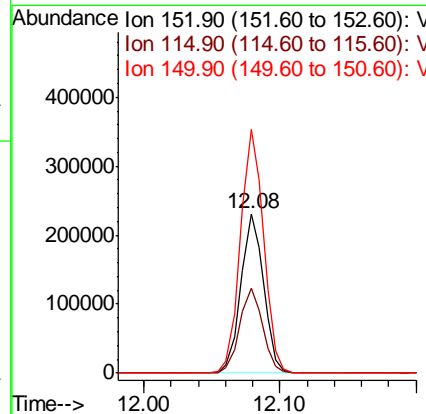
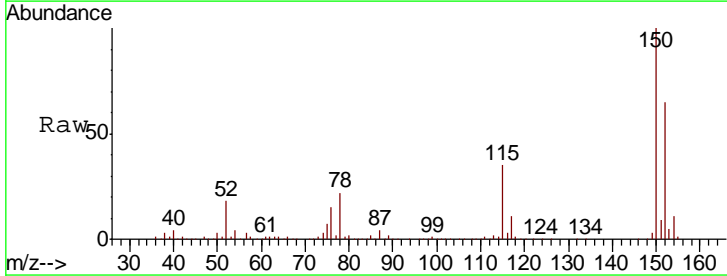
Instrument : MSVOA\_X  
 ClientSampled : PB112704ZHE#05

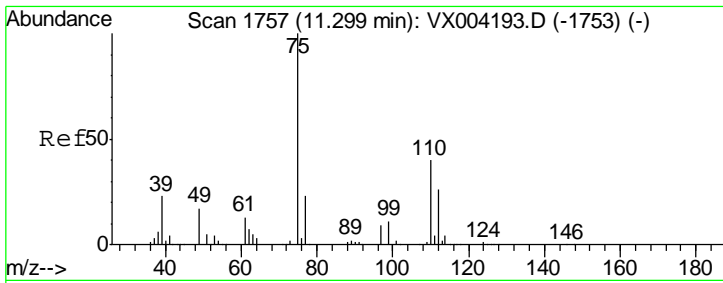
Tgt Ion	Resp	Lower	Upper
117	100		
82	47.3	47.8	71.6#
119	30.4	29.3	43.9



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. -0.00 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
152	100		
115	54.1	39.0	117.0
150	156.4	0.0	351.0

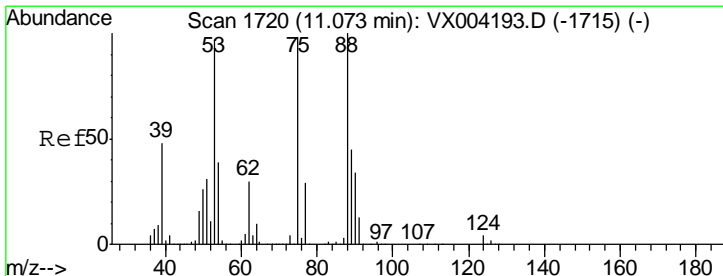
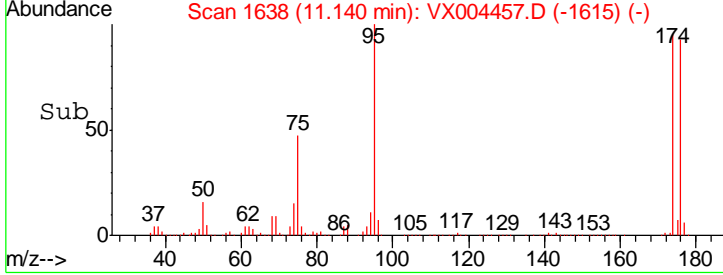
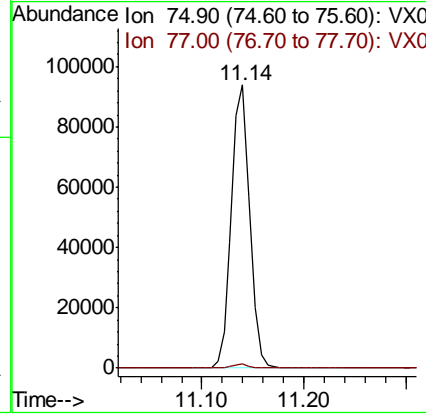
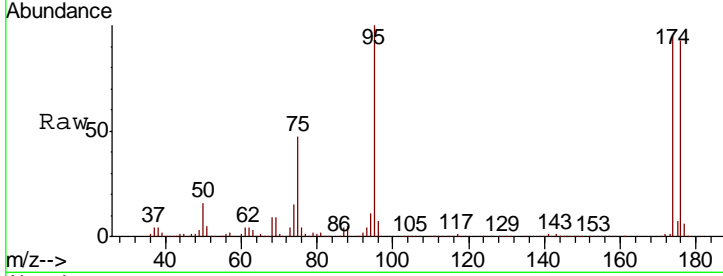




#76  
 1,2,3-Trichloropropane  
 Concen: 21.41 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.16 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Instrument : MSVOA\_X  
 ClientSampled : PB112704ZHE#05

Tgt Ion	Resp	Lower	Upper
75	116617		
77	1.4	20.2	60.6#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.46 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. 0.07 min  
 Lab File: VX004457.D  
 Acq: 10 Sep 2018 19:01

Tgt Ion	Resp	Lower	Upper
75	116617		
53	0.2	80.1	120.1#
89	0.0	37.2	55.8#

