

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
 Data File : VN056184.D  
 Acq On : 10 Jun 2019 22:29  
 Operator : JC/SP  
 Sample : VN0610WBL02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0610WBL02

Quant Time: Jun 11 02:23:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	306527	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	463428	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	450960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	140195	50.00	ug/l	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	162823	53.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.00%	
35) Dibromofluoromethane	7.59	113	149882	52.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.42%	
50) Toluene-d8	10.09	98	582979	53.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.56%	
62) 4-Bromofluorobenzene	12.40	95	185351	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	

## Target Compounds

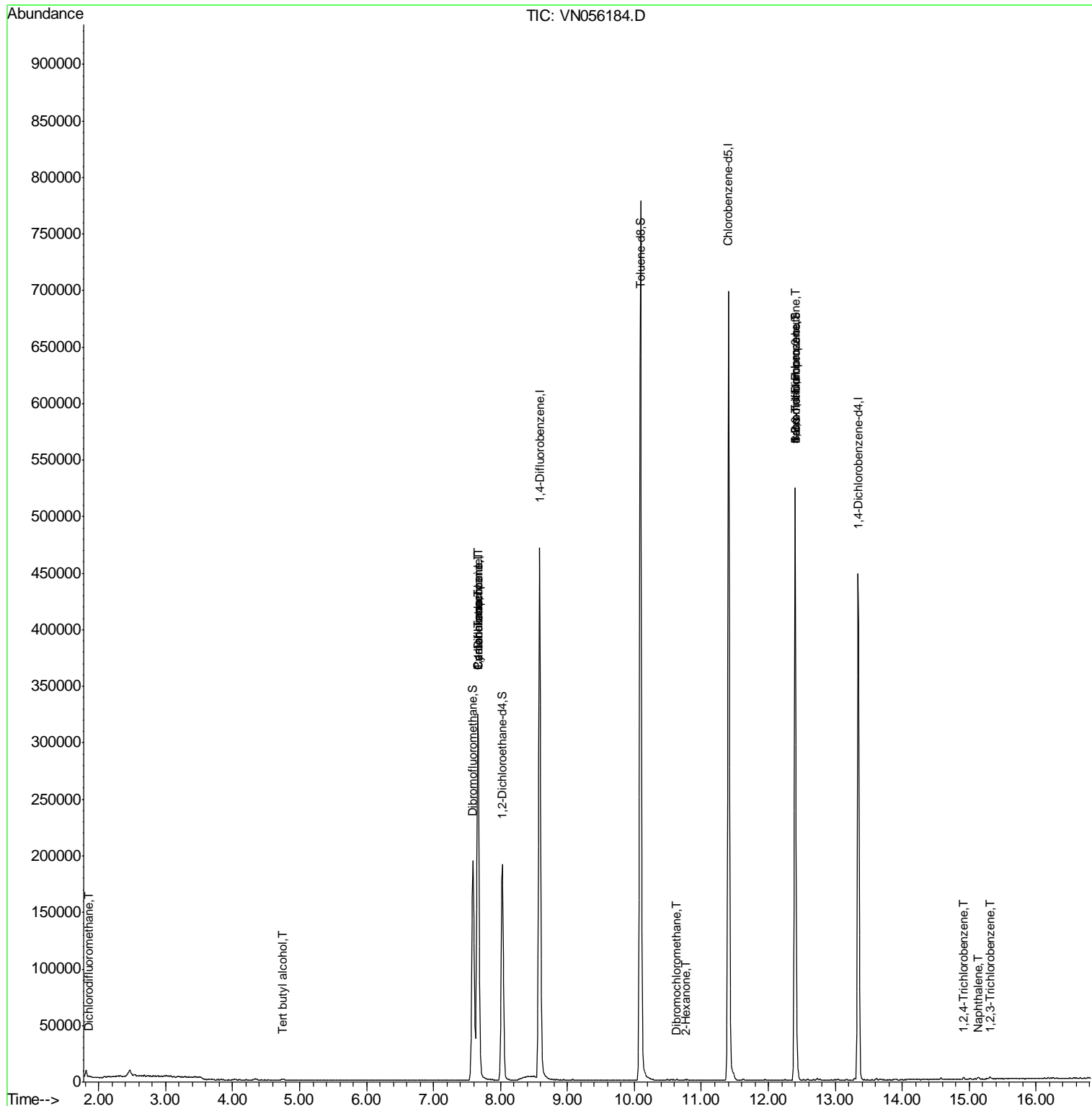
						Qvalue
2) Dichlorodifluoromethane	1.85	85	105	0.386	ug/l #	42
11) Tert butyl alcohol	4.74	59	599	1.131	ug/l #	74
31) Cyclohexane	7.66	56	4203	0.870	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17176	4.310	ug/l #	43
38) Carbon Tetrachloride	7.66	117	24417	6.646	ug/l #	15
59) 2-Hexanone	10.76	43	751	0.288	ug/l #	23
60) Dibromochloromethane	10.63	129	59	2.469	ug/l #	11
71) Bromoform	12.40	173	1343	3.230	ug/l #	1
73) Isopropylbenzene	12.24	105	250	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	84530	32.768	ug/l #	100
79) 2-Chlorotoluene	12.77	91	612	Below Cal		77
81) trans-1,4-Dichloro-2-buten	12.40	75	84530	109.124	ug/l #	15
83) tert-Butylbenzene	12.99	119	400	Below Cal	#	42
93) 1,2,4-Trichlorobenzene	14.91	180	931	4.599	ug/l #	91
94) Hexachlorobutadiene	15.01	225	332	Below Cal		71
95) Naphthalene	15.14	128	2238	4.159	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.31	180	1032	3.399	ug/l #	19

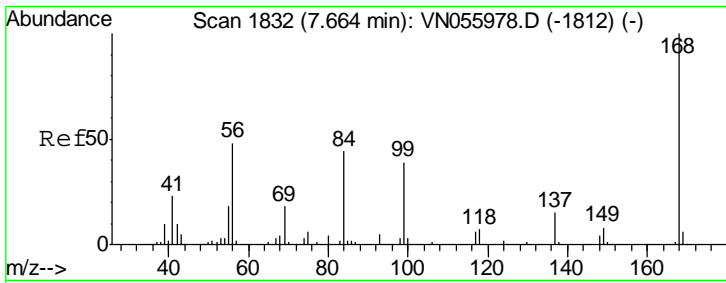
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 ALS Vial : 33 Sample Multiplier: 1

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 MSVOA\_N  
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 VN0610WBL02

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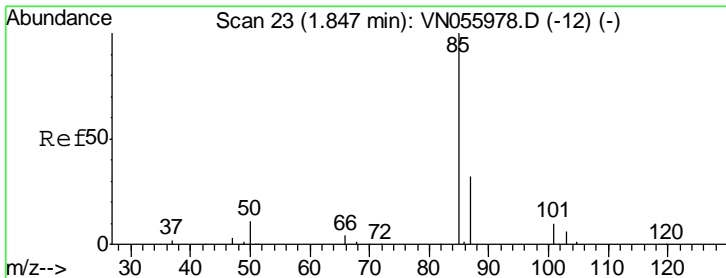
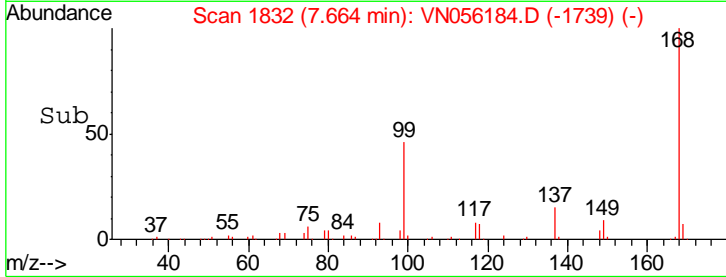
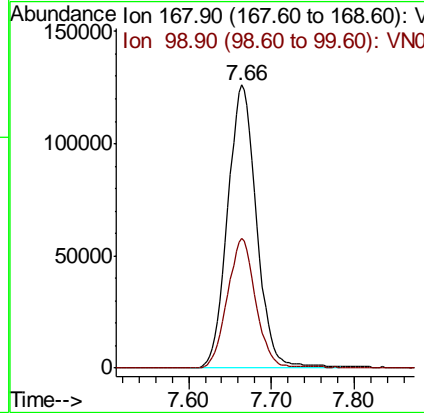
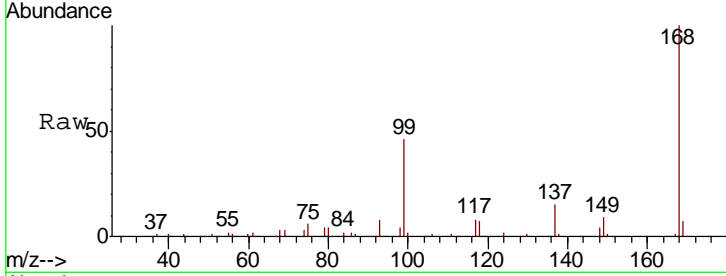




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

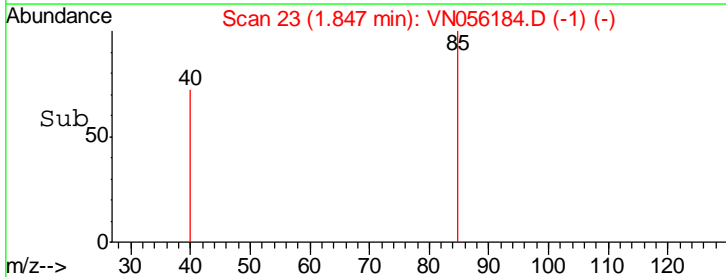
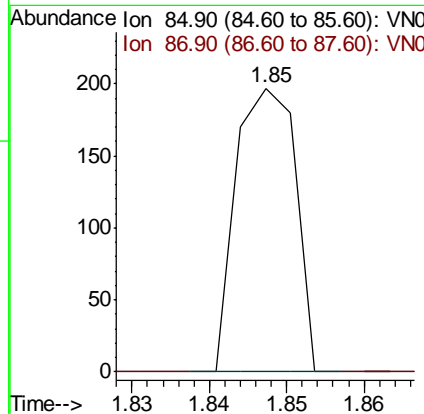
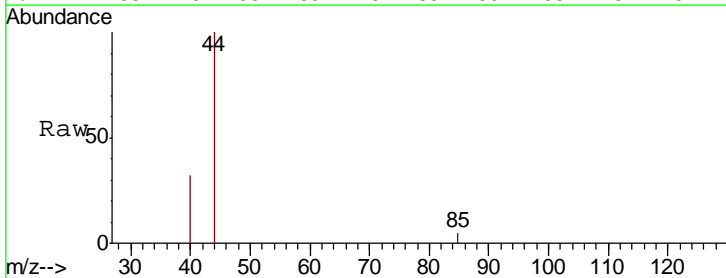
Instrument : MSVOA\_N  
 ClientSampleId : VN0610WBLO2

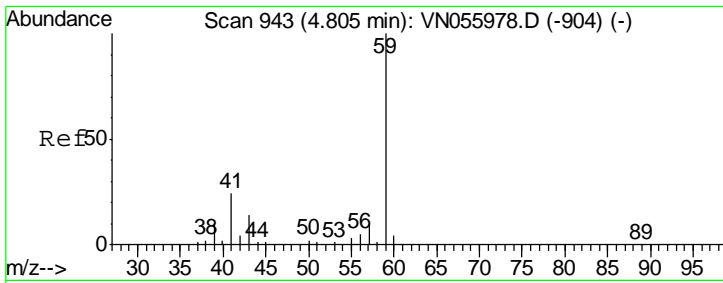
Tgt Ion	Resp	Lower	Upper
168	100		
99	45.9	37.2	55.8



#2  
 Dichlorodifluoromethane  
 Concen: 0.386 ug/l  
 RT: 1.85 min Scan# 23  
 Delta R.T. 0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
85	100		
87	0.0	16.1	48.3#

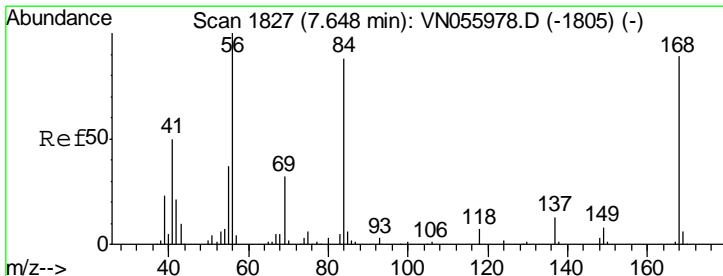
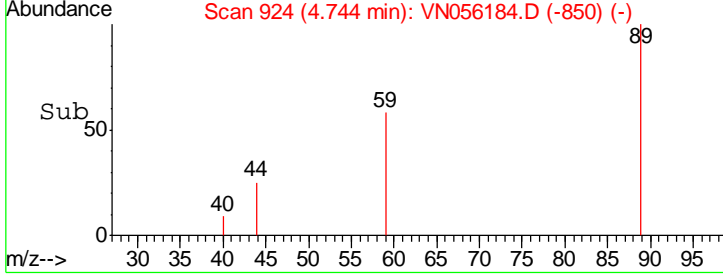
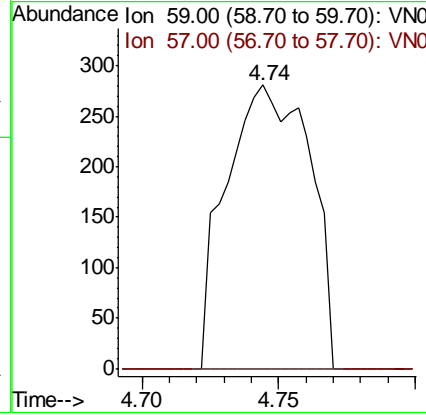
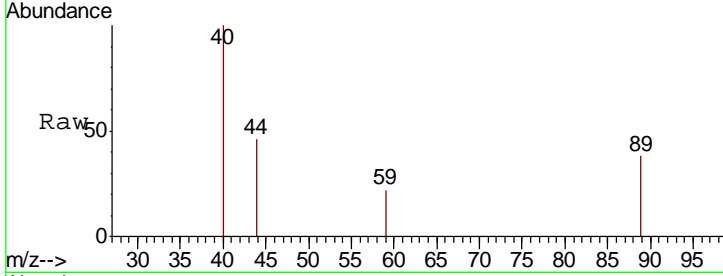




#11  
 Tert butyl alcohol  
 Concen: 1.131 ug/l  
 RT: 4.74 min Scan# 924  
 Delta R.T. -0.06 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

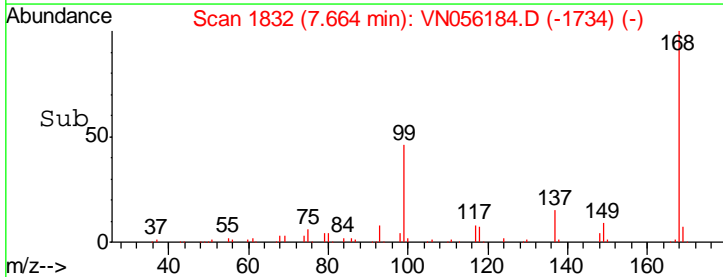
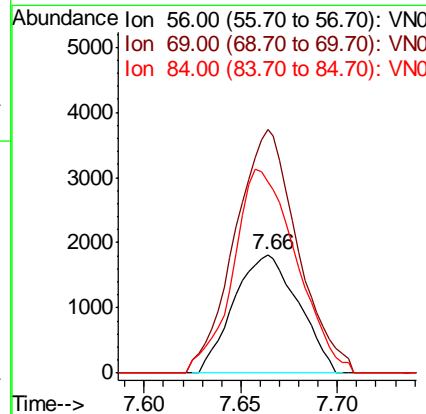
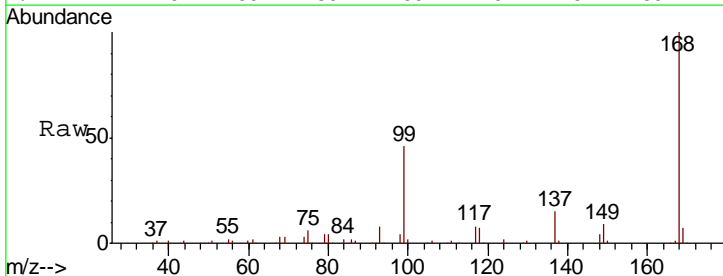
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0610WBLO2

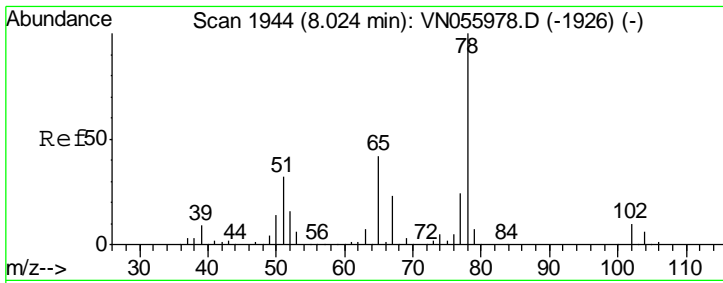
Tgt Ion	Resp	Lower	Upper
59	100		
57	0.0	7.8	11.6#



#31  
 Cyclohexane  
 Concen: 0.870 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. 0.02 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
56	100		
69	194.3	25.6	38.4#
84	153.2	67.4	101.0#

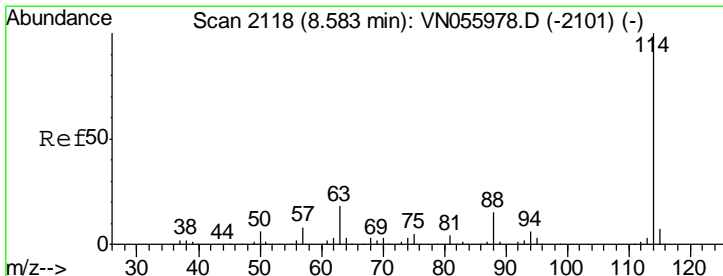
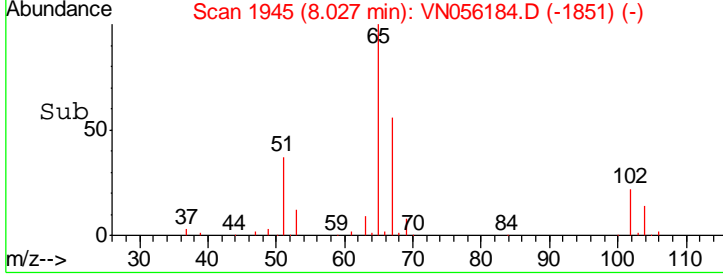
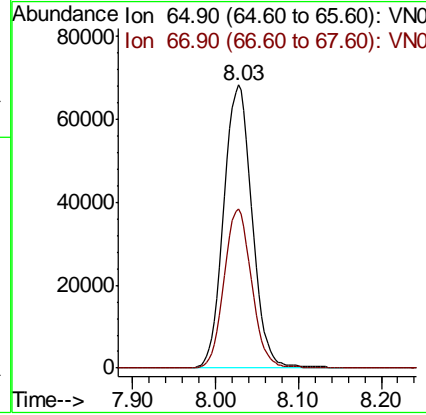
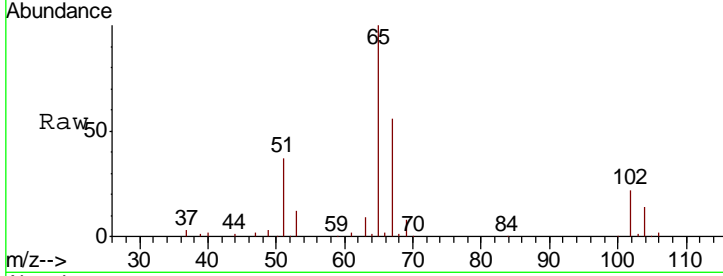




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.498 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

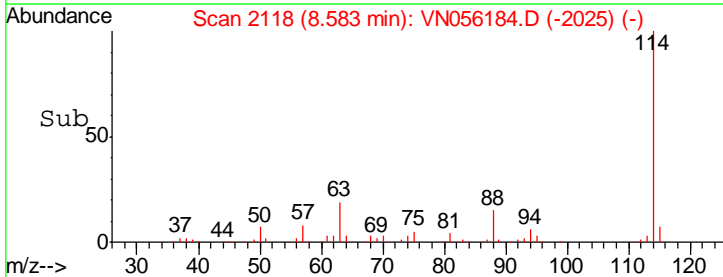
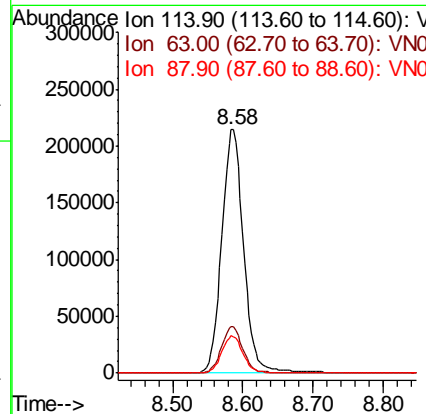
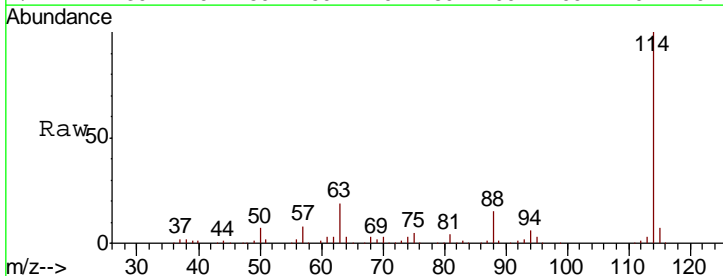
Instrument : MSVOA\_N  
 ClientSampled : VN0610WBL02

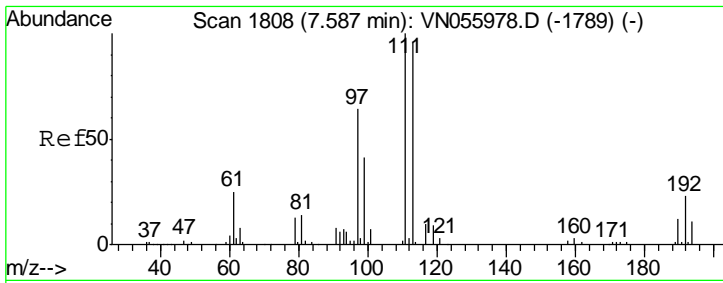
Tgt Ion: 65 Resp: 162823  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 0.0 109.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion: 114 Resp: 463428  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 39.2  
 88 15.2 0.0 31.0

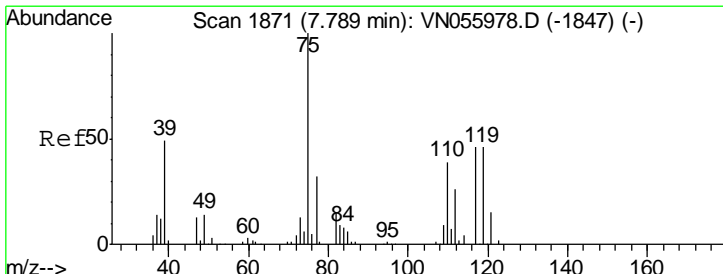
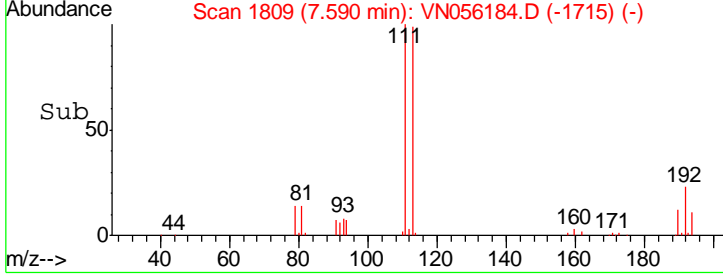
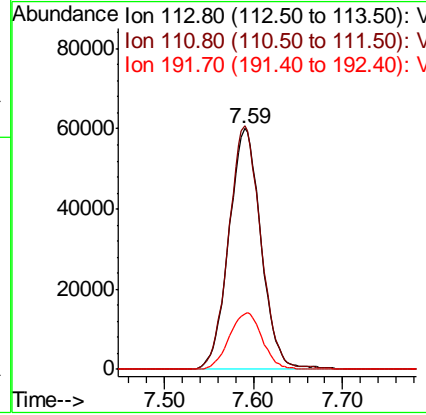
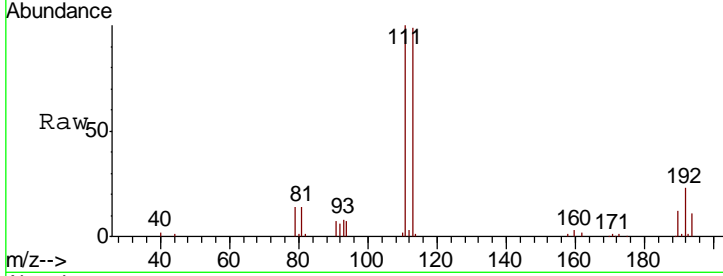




#35  
 Dibromofluoromethane  
 Concen: 52.714 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

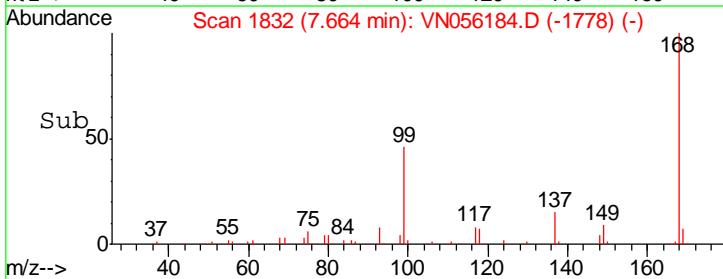
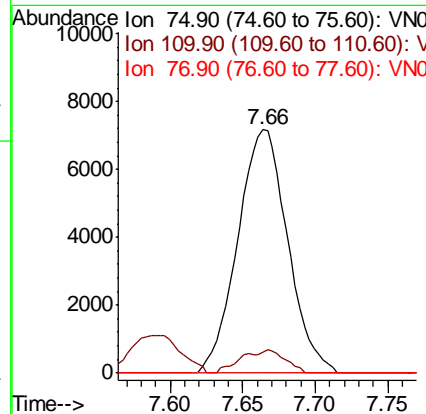
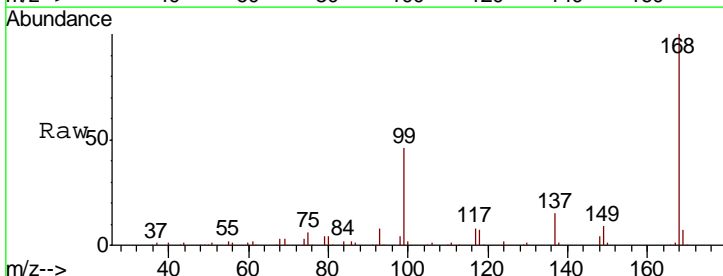
**Instrument :**  
 MSVOA\_N  
**ClientSampled :**  
 VN0610WBLO2

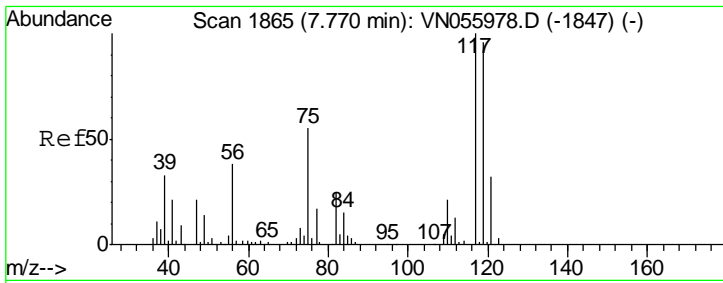
Tgt Ion	Resp	Lower	Upper
113	149882		
113	100		
111	100.4	81.9	122.9
192	24.1	19.5	29.3



#36  
 1,1-Dichloropropene  
 Concen: 4.310 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
75	17176		
75	100		
110	3.9	19.0	57.0#
77	0.0	25.1	37.7#

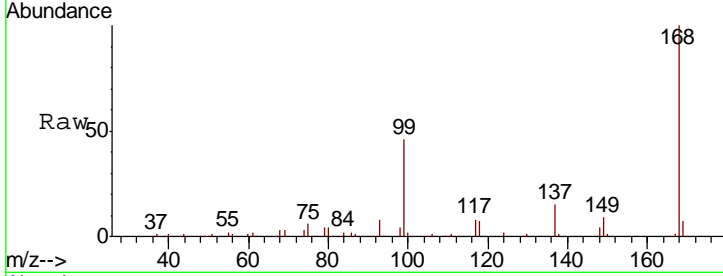




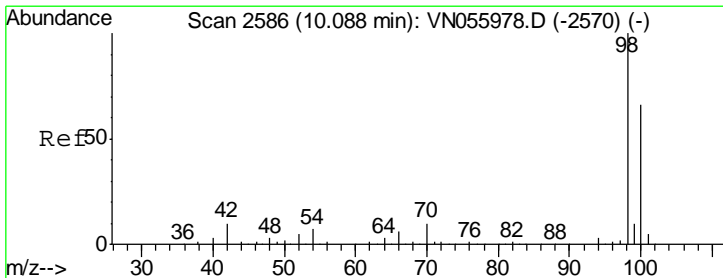
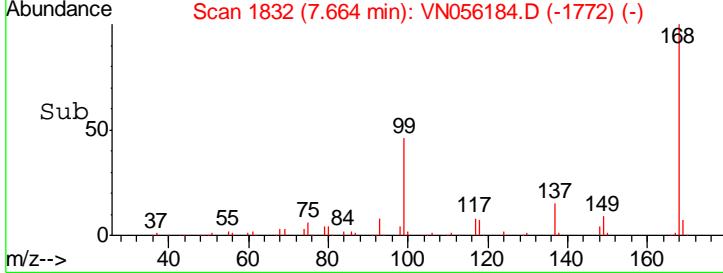
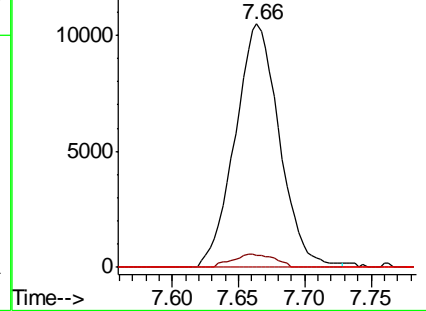
#38  
 Carbon Tetrachloride  
 Concen: 6.646 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0610WBLO2

Tgt Ion	Resp	Lower	Upper
117	100		
119	5.1	79.0	118.6#
121	0.0	24.7	37.1#

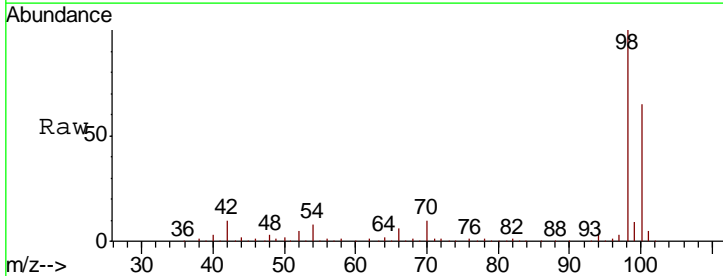


Abundance Ion 116.80 (116.50 to 117.50): V  
 Ion 118.80 (118.50 to 119.50): V  
 Ion 120.80 (120.50 to 121.50): V

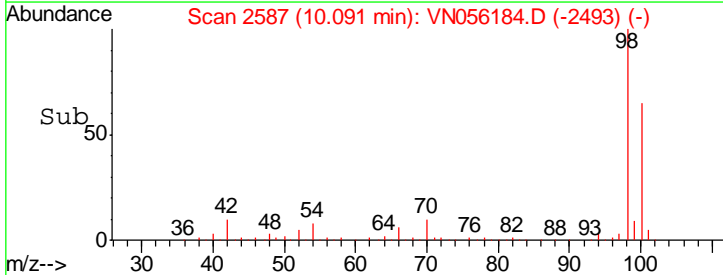
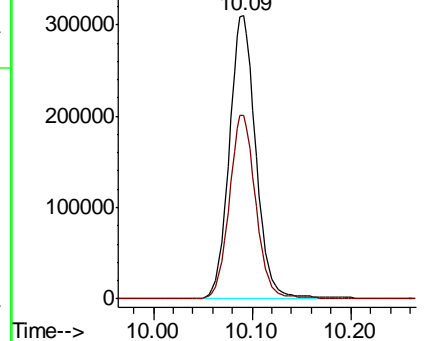


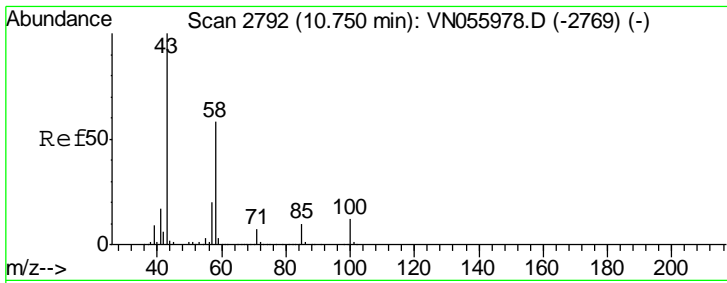
#50  
 Toluene-d8  
 Concen: 53.284 ug/l  
 RT: 10.09 min Scan# 2587  
 Delta R.T. 0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
98	100		
100	65.2	51.9	77.9



Abundance Ion 98.00 (97.70 to 98.70): V  
 Ion 100.00 (99.70 to 100.70): V

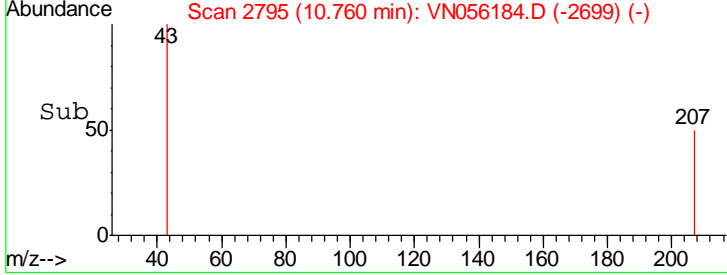
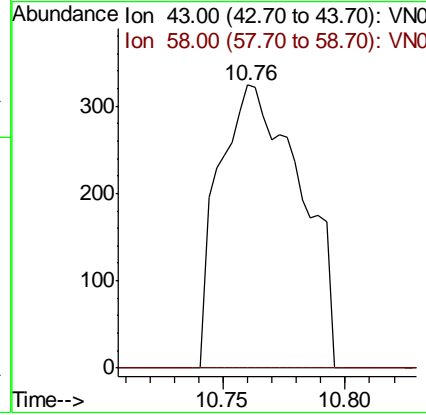
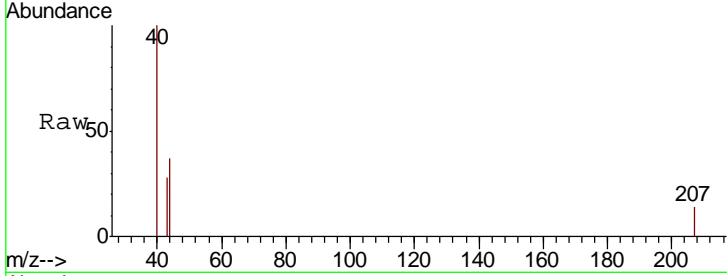




#59  
 2-Hexanone  
 Concen: 0.288 ug/l  
 RT: 10.76 min Scan# 2795  
 Delta R.T. 0.01 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

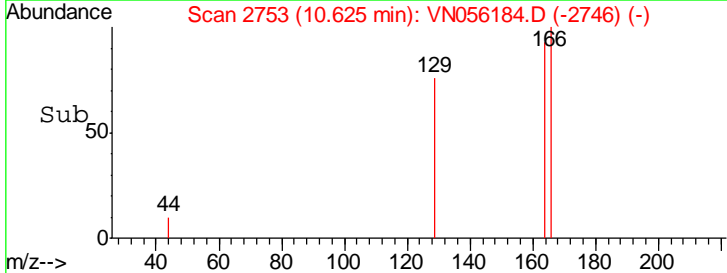
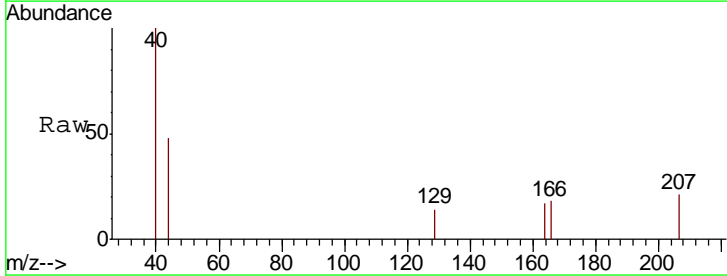
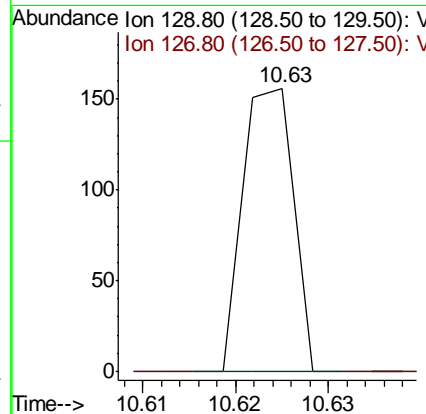
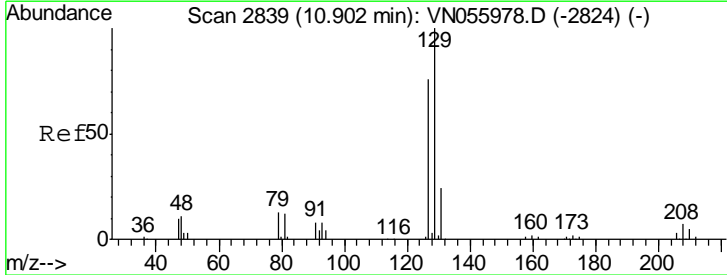
Instrument : MSVOA\_N  
 ClientSampled : VN0610WBL02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	84.7#

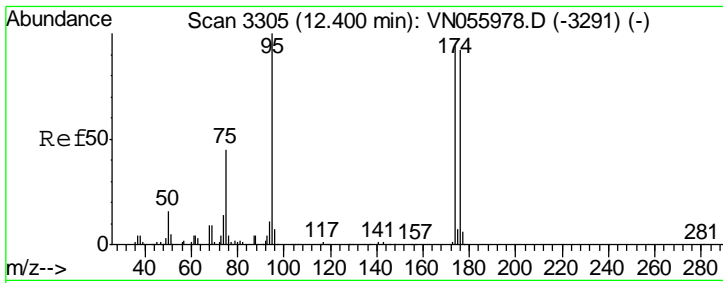


#60  
 Dibromochloromethane  
 Concen: 2.469 ug/l  
 RT: 10.63 min Scan# 2753  
 Delta R.T. -0.28 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.1	114.3#



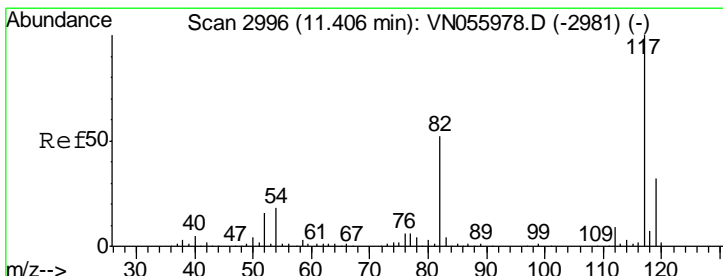
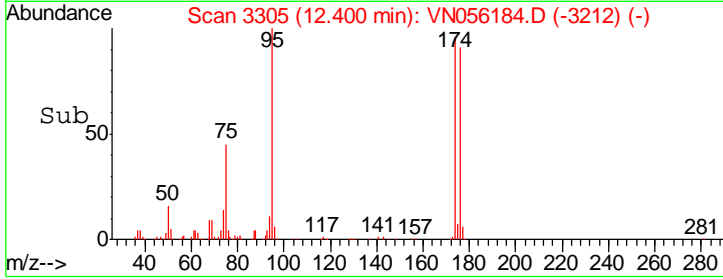
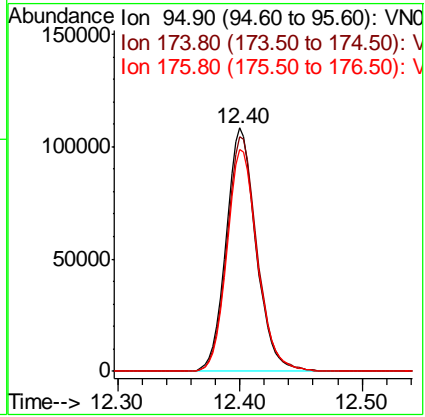
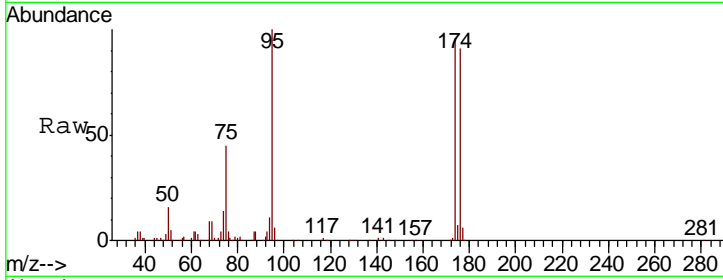




#62  
 4-Bromofluorobenzene  
 Concen: 49.815 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. -0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

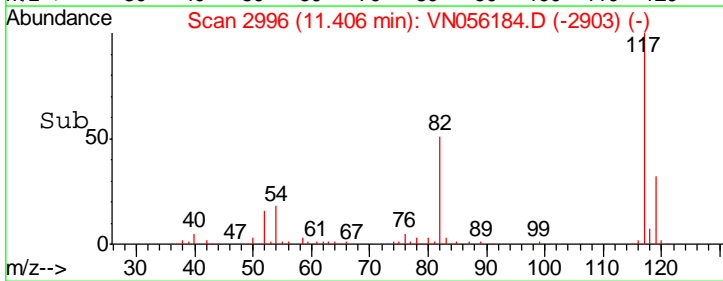
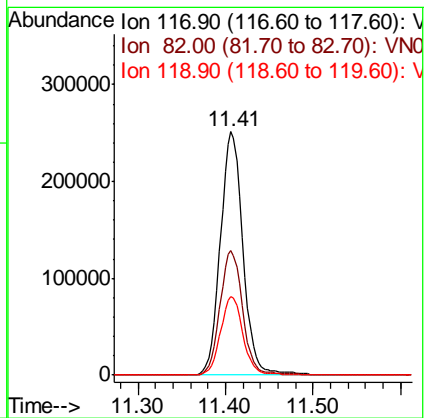
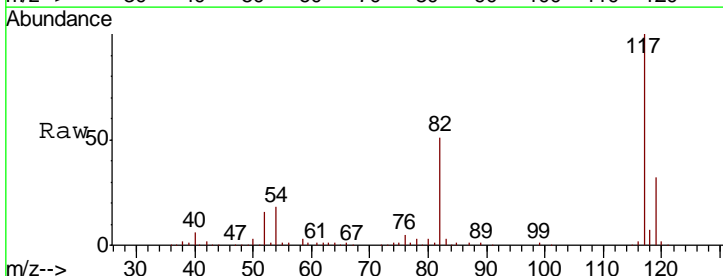
Instrument : MSVOA\_N  
 ClientSampled : VN0610WBL02

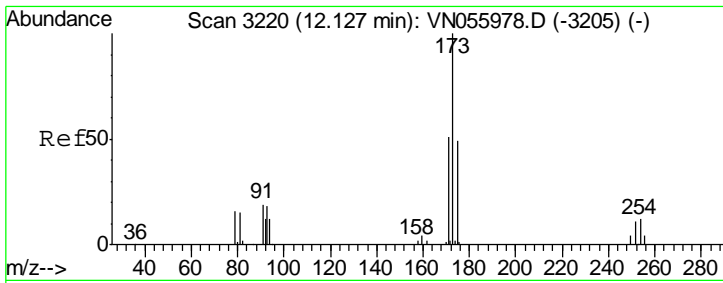
Tgt Ion	Resp	Lower	Upper
95	185351		
174	97.9	0.0	191.0
176	93.1	0.0	185.2



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.41 min Scan# 2996  
 Delta R.T. -0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
117	450960		
82	51.1	41.8	62.8
119	32.2	25.4	38.0

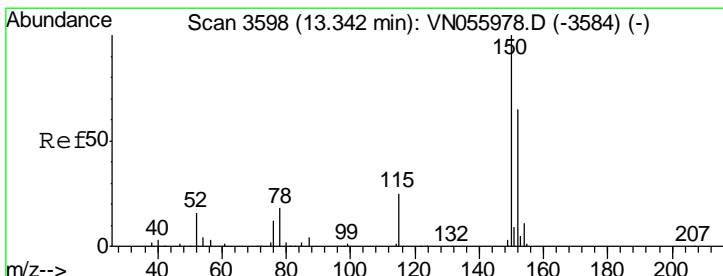
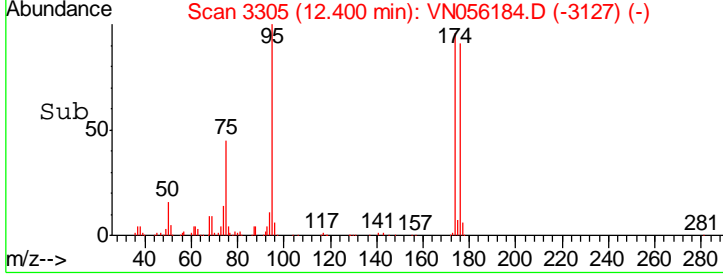
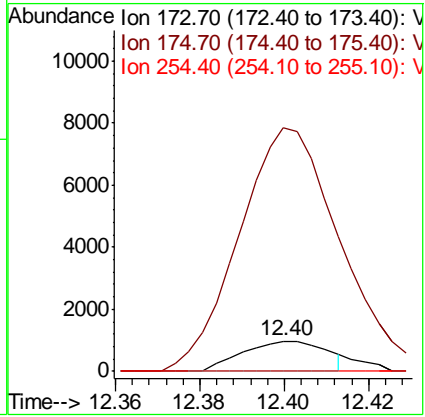
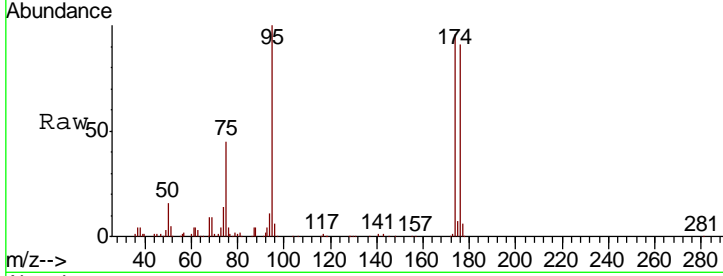




#71  
 Bromoform  
 Concen: 3.230 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. 0.27 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

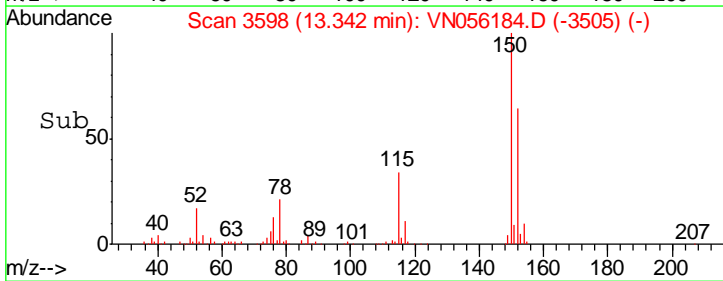
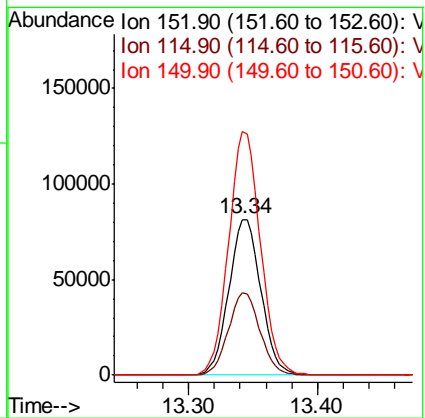
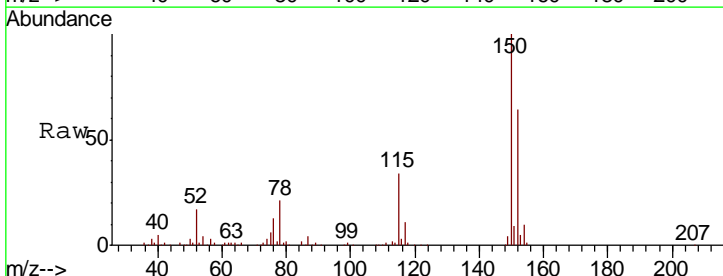
Instrument : MSVOA\_N  
 ClientSampled : VN0610WBLO2

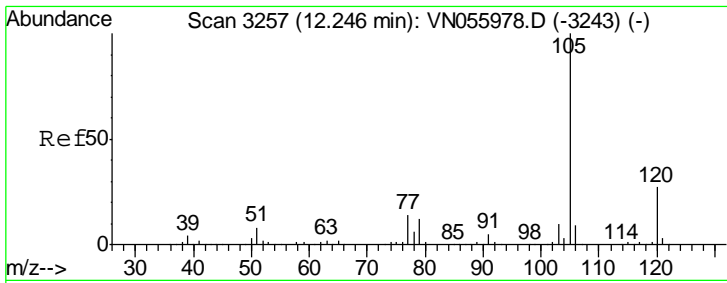
Tgt Ion	Resp	Lower	Upper
173	1343		
175	839.8	24.3	72.8#
254	0.0	0.0	0.0



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.34 min Scan# 3598  
 Delta R.T. -0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
152	140195		
115	52.3	27.0	81.0
150	155.5	0.0	343.2

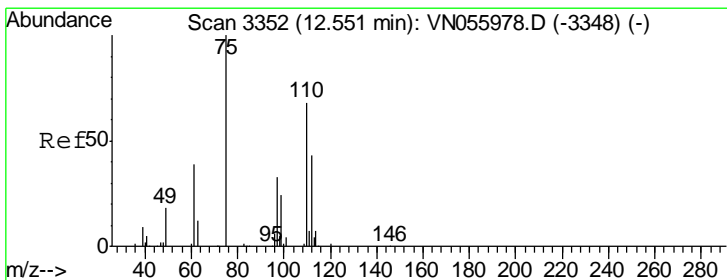
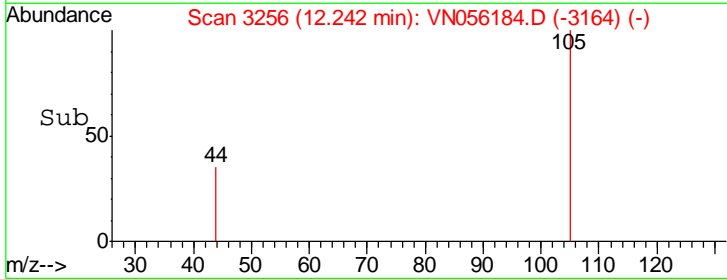
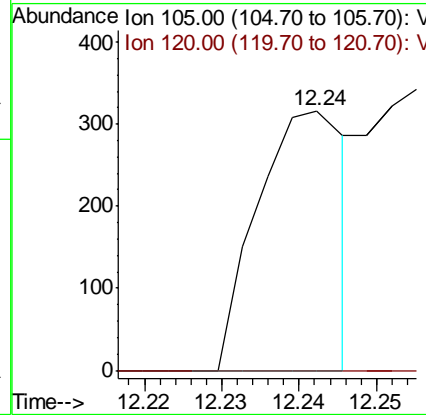
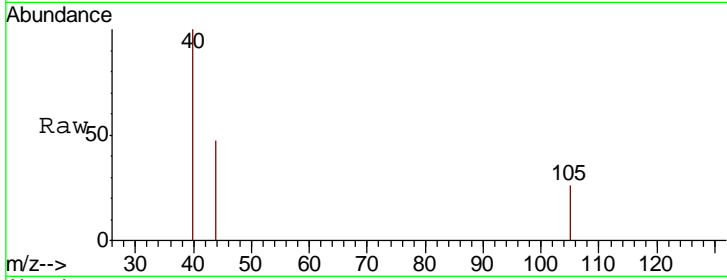




#73  
 Isopropylbenzene  
 Concen: Below Cal  
 RT: 12.24 min Scan# 3256  
 Delta R.T. -0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

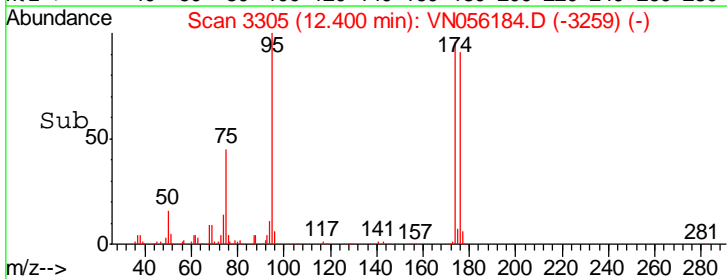
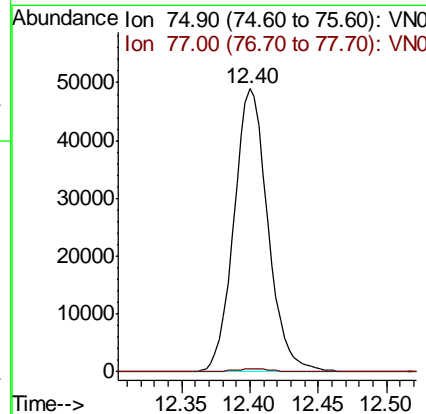
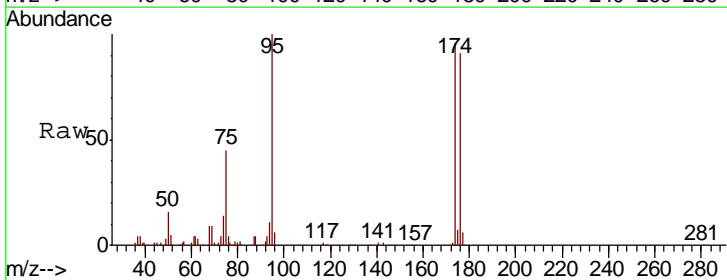
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0610WBLO2

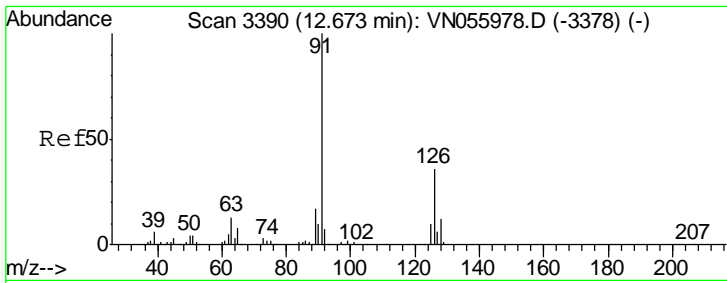
Tgt Ion: 105 Resp: 250  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 13.6 40.7#



#76  
 1,2,3-Trichloropropane  
 Concen: 32.768 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. -0.15 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion: 75 Resp: 84530  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#



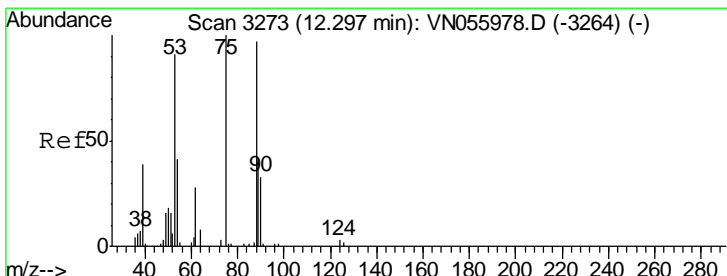
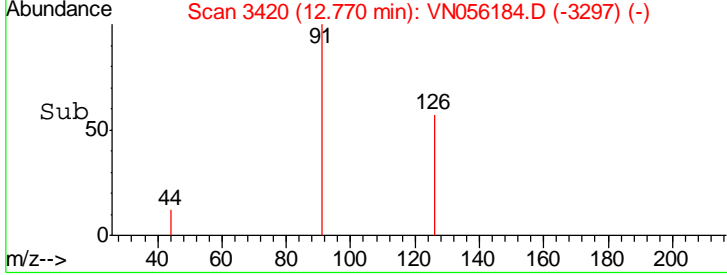
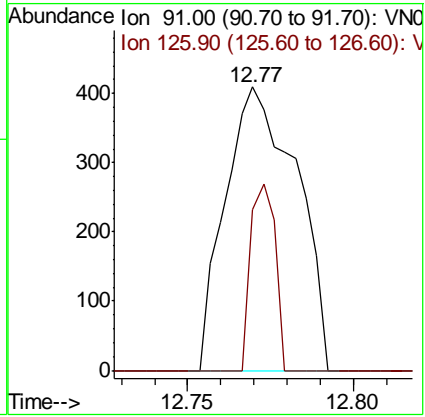
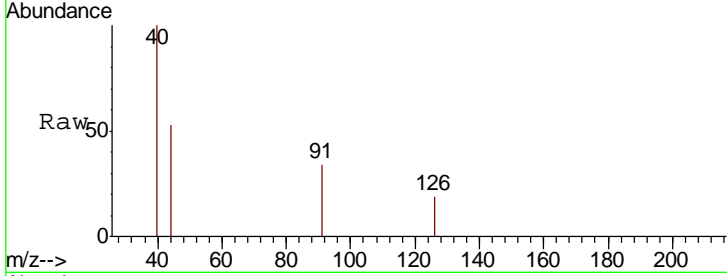


#79  
 2-Chlorotoluene  
 Concen: Below Cal  
 RT: 12.77 min Scan# 3420  
 Delta R.T. 0.10 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Instrument : MSVOA\_N  
 ClientSampled : VN0610WBLO2

Tgt Ion: 91 Resp: 612

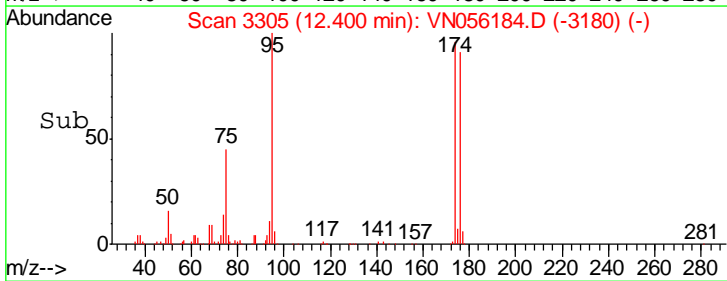
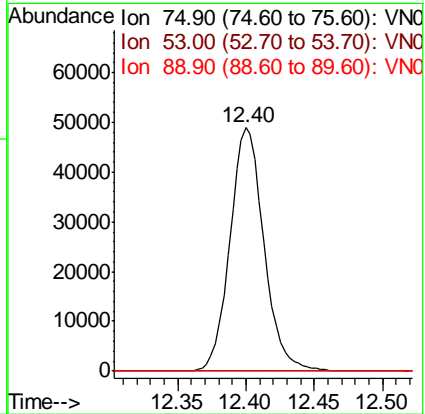
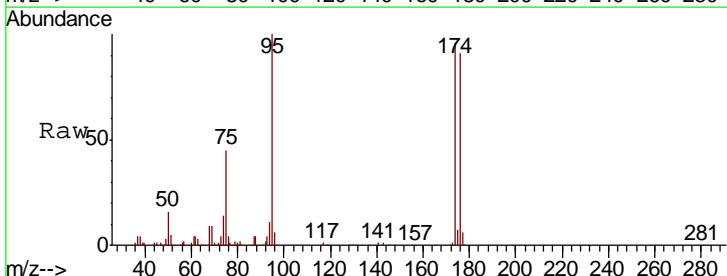
Ion	Ratio	Lower	Upper
91	100		
126	22.7	18.1	54.4

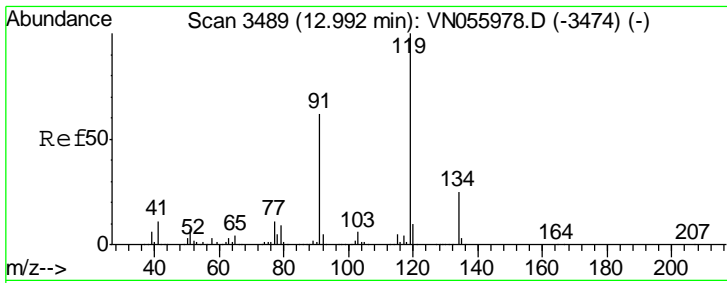


#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 109.124 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. 0.10 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion: 75 Resp: 84530

Ion	Ratio	Lower	Upper
75	100		
53	0.0	68.1	102.1#
89	0.0	36.9	55.3#

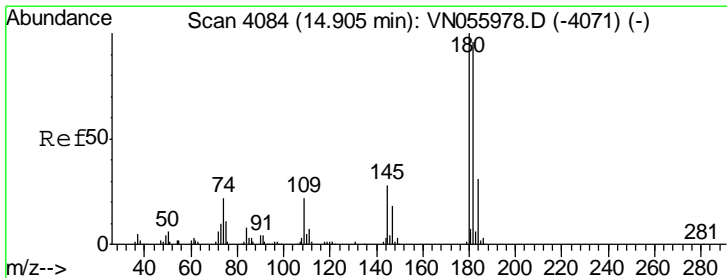
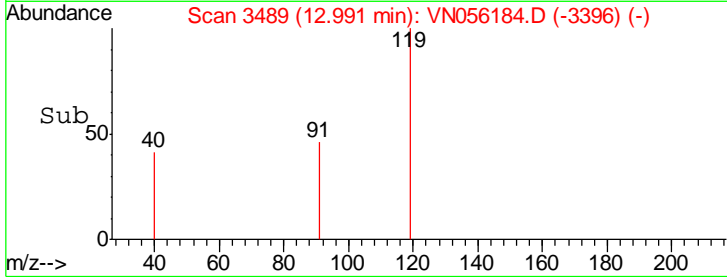
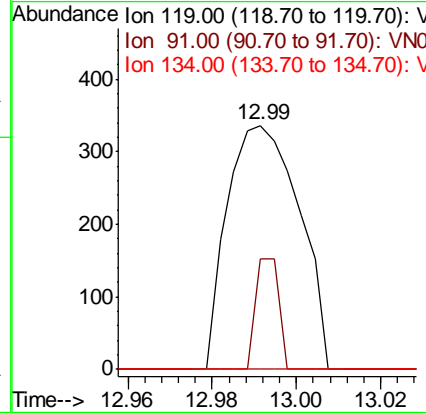
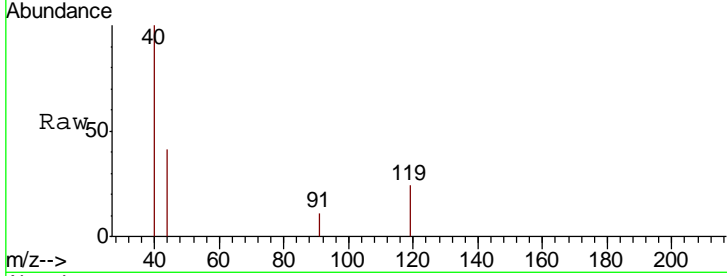




#83  
 tert-Butylbenzene  
 Concen: Below Cal  
 RT: 12.99 min Scan# 3489  
 Delta R.T. 0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

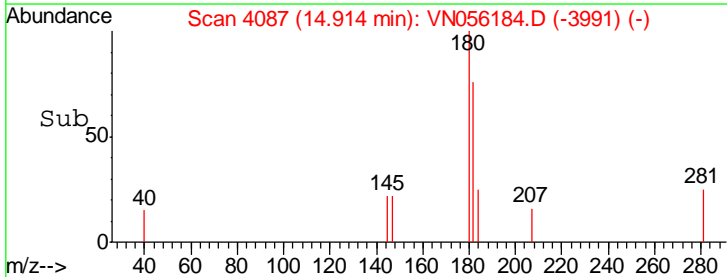
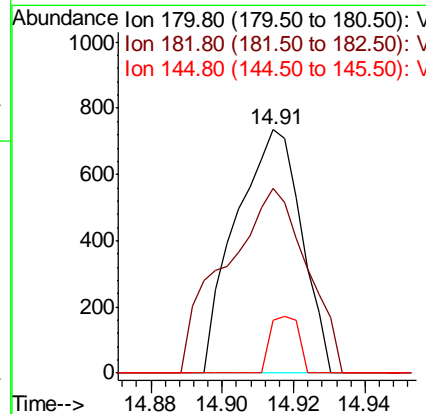
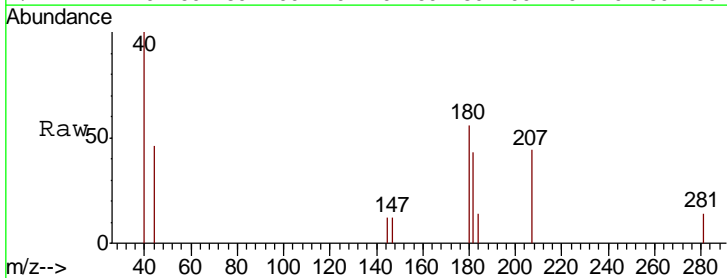
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0610WBLO2

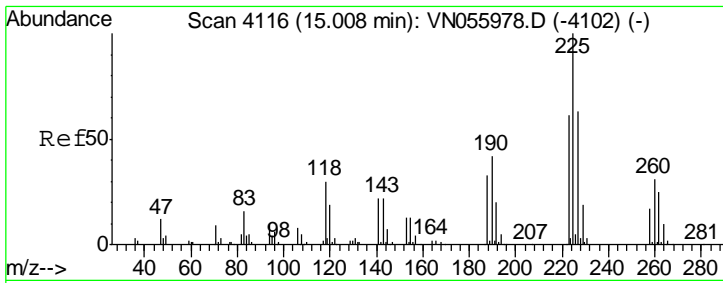
Tgt Ion	Resp	Lower	Upper
119	400		
91	14.8	30.9	92.8#
134	0.0	13.3	39.8#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 4.599 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.01 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
180	931		
182	95.3	48.3	144.9
145	10.2	14.0	41.9#

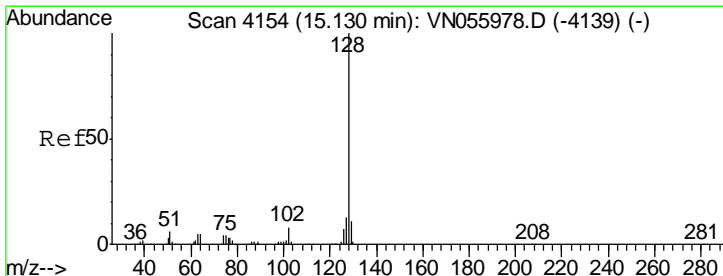
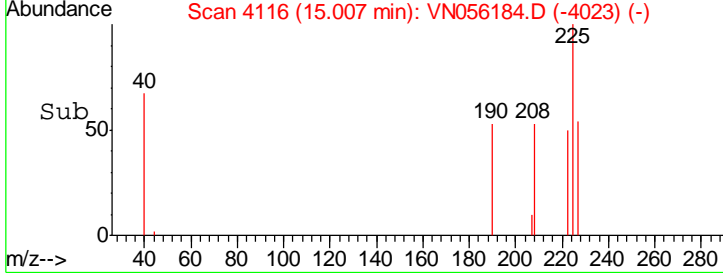
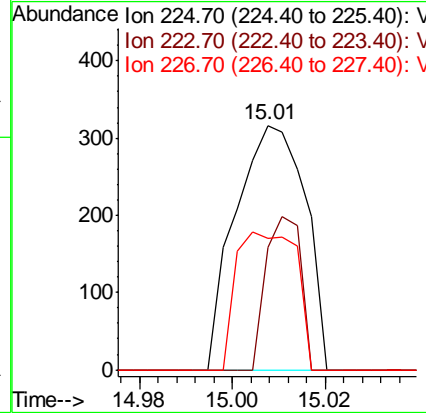
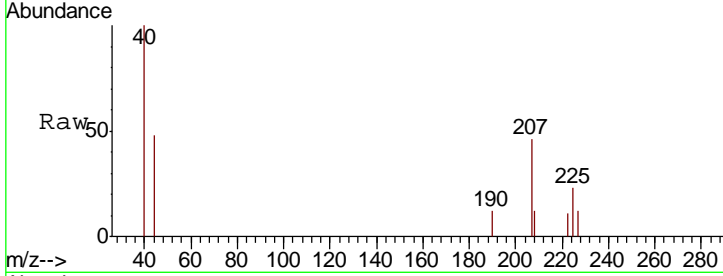




#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.01 min Scan# 4116  
 Delta R.T. 0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

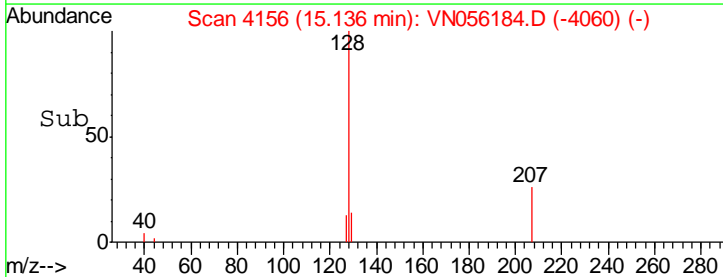
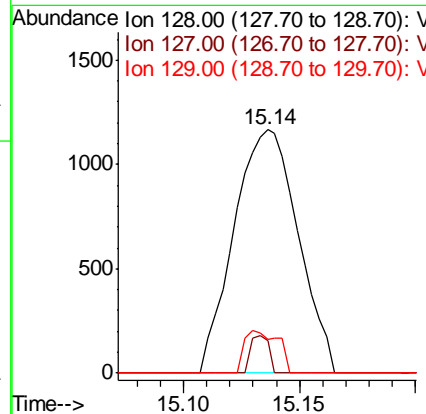
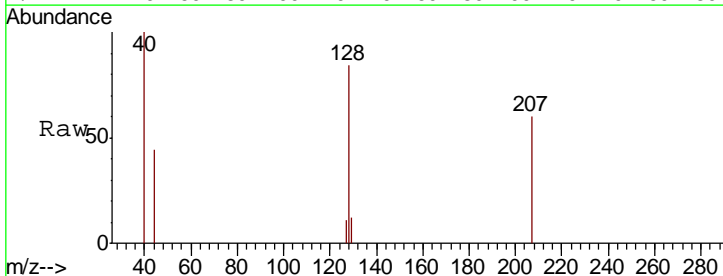
Instrument : MSVOA\_N  
 ClientSampled : VN0610WBLO2

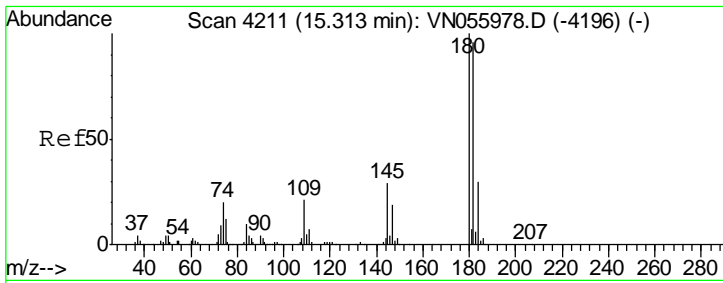
Tgt Ion	Resp	Lower	Upper
225	332		
223	100	30.9	92.7
227	48.2	31.6	94.7



#95  
 Naphthalene  
 Concen: 4.159 ug/l  
 RT: 15.14 min Scan# 4156  
 Delta R.T. 0.01 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Tgt Ion	Resp	Lower	Upper
128	2238		
127	100	10.3	15.5#
129	9.2	8.7	13.1





#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.399 ug/l  
 RT: 15.31 min Scan# 4210  
 Delta R.T. -0.00 min  
 Lab File: VN056184.D  
 Acq: 10 Jun 2019 22:29

Instrument : MSVOA\_N  
 ClientSampled : VN0610WBL02

Tot Ion	Ion	Resp	Lower	Upper
180	100			
182	0.0	47.9	143.7#	
145	15.0	14.9	44.7	

