

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN081019\  
 Data File : VN057170.D  
 Acq On : 10 Aug 2019 12:39  
 Operator : JC/SP  
 Sample : VN0810WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0810WBL01

Quant Time: Aug 11 03:56:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N081019W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sun Aug 11 03:53:25 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	186130	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	993436	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.91	117	779334	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	358740	29.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.57%
60) 4-Bromofluorobenzene	11.92	95	237064	20.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	68.10%
63) Toluene-d8	9.56	98	1169966	32.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.40%

Target Compounds

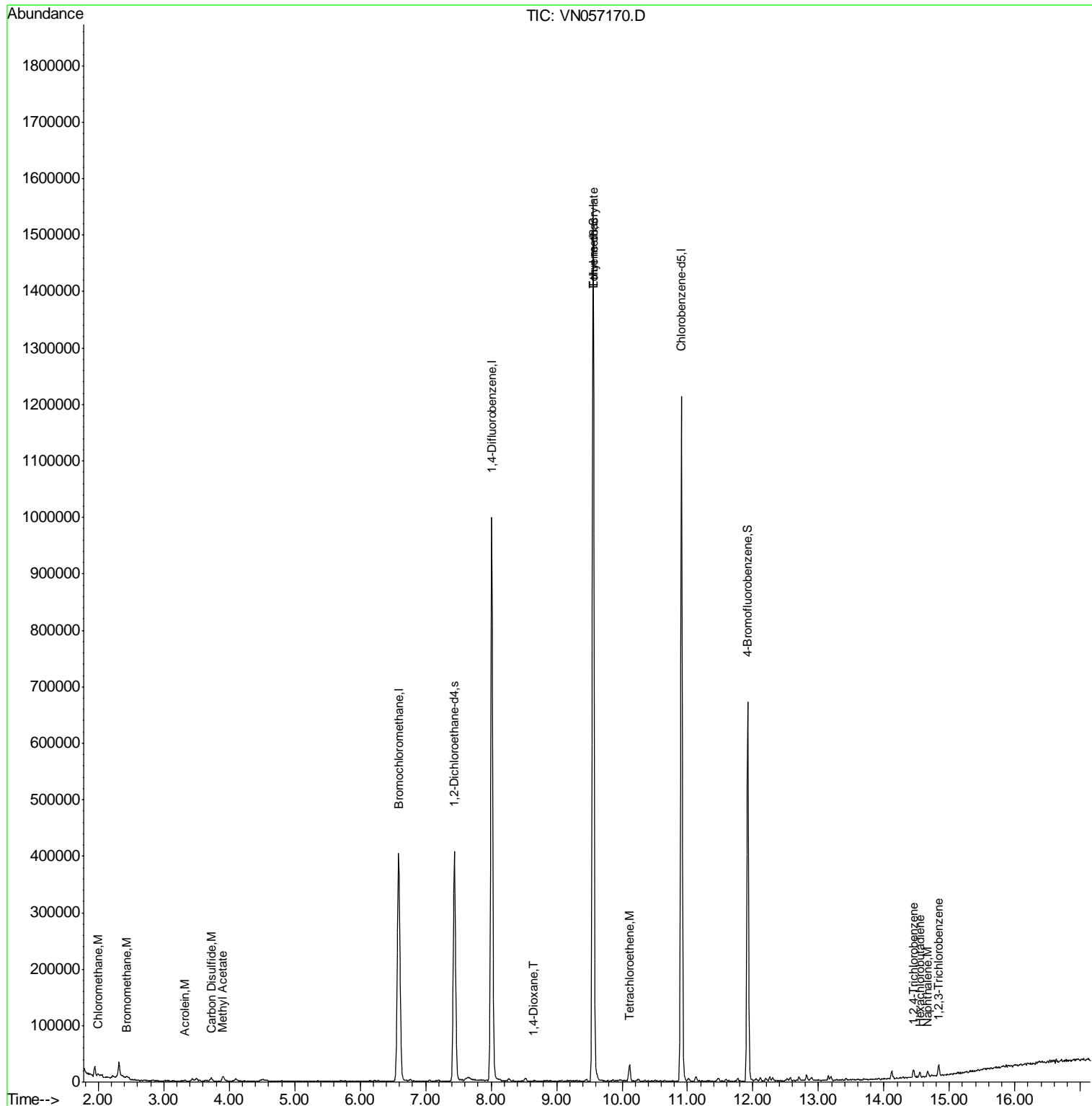
					Qvalue	
3) Chloromethane	2.00	50	2388	0.203	ug/l	# 72
5) Bromomethane	2.44	94	3168	0.372	ug/l	# 79
12) Methyl Acetate	3.90	43	12564	1.130	ug/l	95
13) Acrolein	3.32	56	762	0.622	ug/l	96
16) Carbon Disulfide	3.72	76	10571	0.367	ug/l	95
45) 1,4-Dioxane	8.64	88	79	0.430	ug/l	# 1
51) Ethyl methacrylate	9.57	69	3376	0.221	ug/l	91
61) Tetrachloroethene	10.11	164	7327	0.613	ug/l	91
89) 1,2,4-Trichlorobenzene	14.45	180	5180	9.525	ug/l	90
90) Hexachlorobutadiene	14.55	225	2116	0.267	ug/l	89
91) Naphthalene	14.67	128	7727	0.555	ug/l	# 92
92) 1,2,3-Trichlorobenzene	14.84	180	6895	9.065	ug/l	95

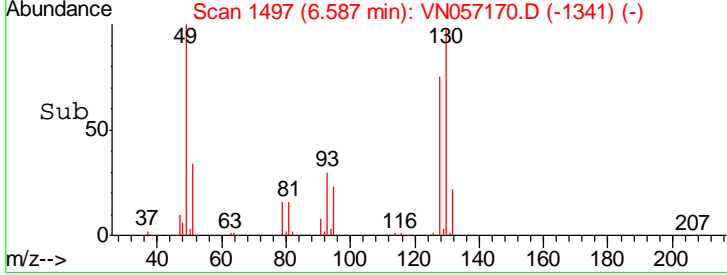
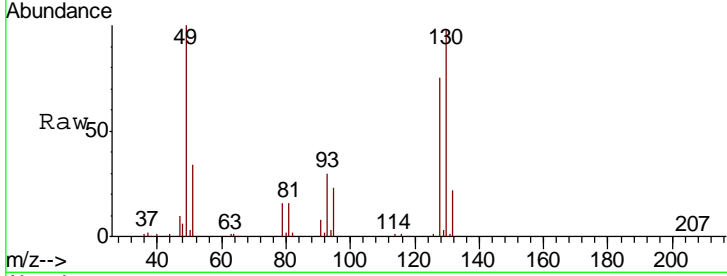
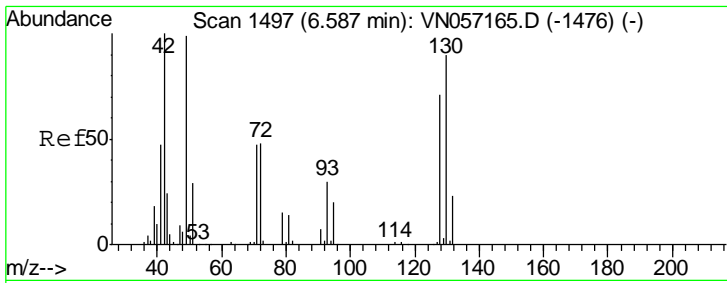
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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**Instrument :**  
 MSVOA\_N  
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 VN0810WBL01

Quant Time: Aug 11 03:56:55 2019  
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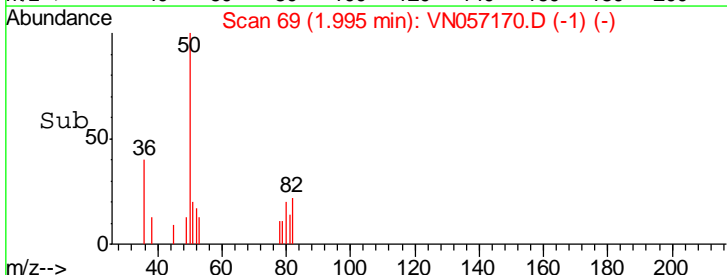
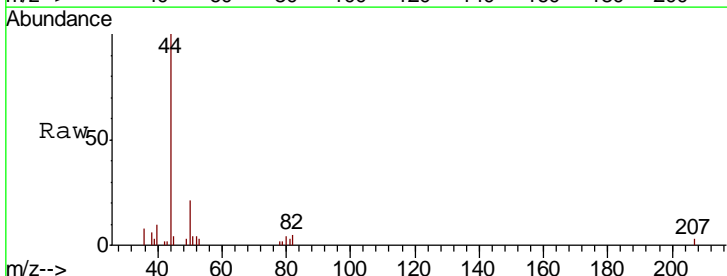
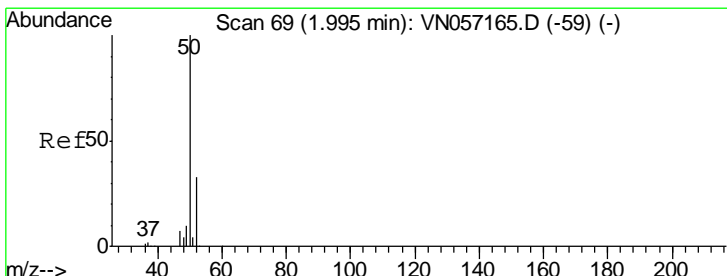
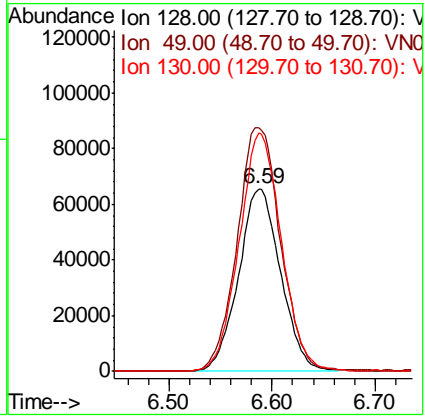




#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 6.59 min Scan# 1497  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

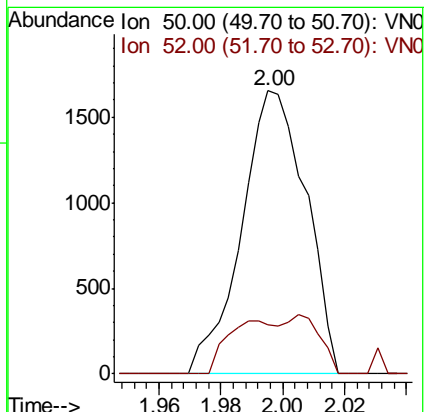
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0810WBL01

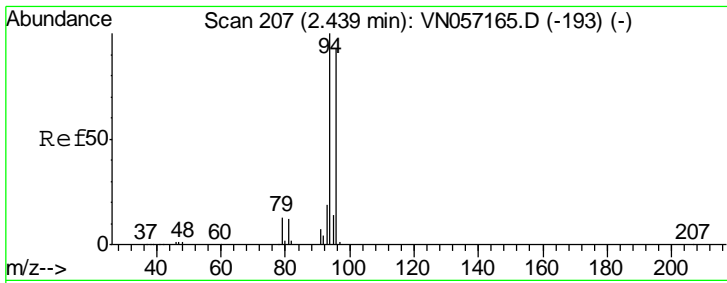
Tgt Ion	Resp	Lower	Upper
128	186130		
49	137.8	0.0	361.0
130	131.4	0.0	329.5



#3  
 Chloromethane  
 Concen: 0.203 ug/l  
 RT: 2.00 min Scan# 69  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion	Resp	Lower	Upper
50	2388		
52	17.3	26.5	39.7#

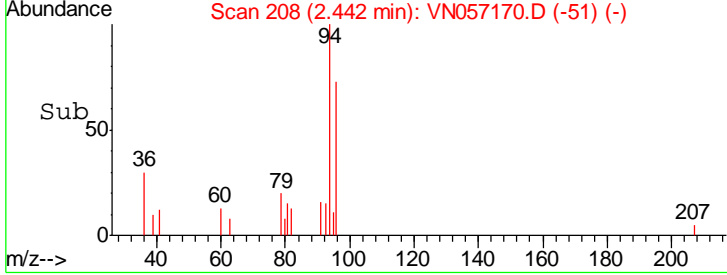
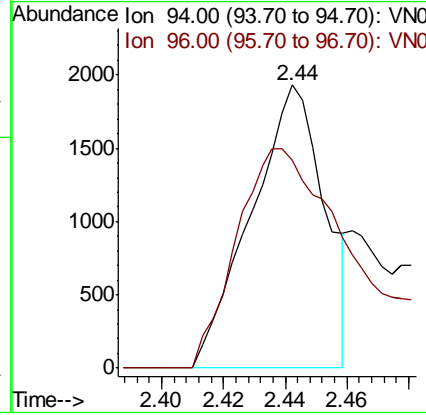
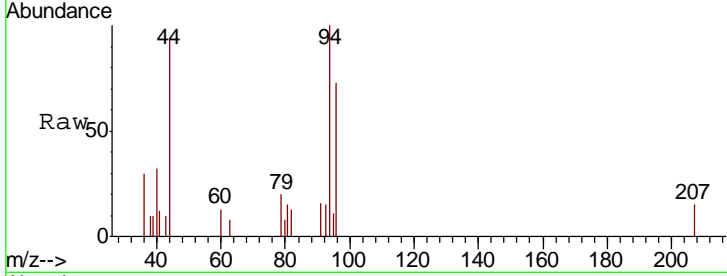




#5  
 Bromomethane  
 Concen: 0.372 ug/l  
 RT: 2.44 min Scan# 208  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

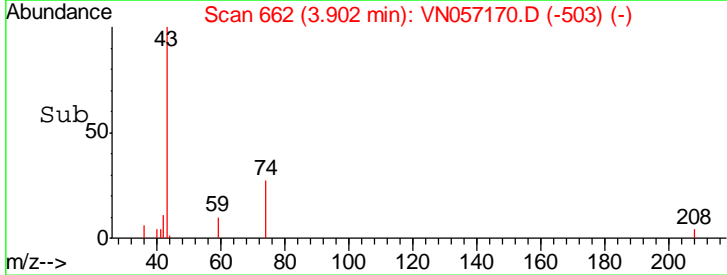
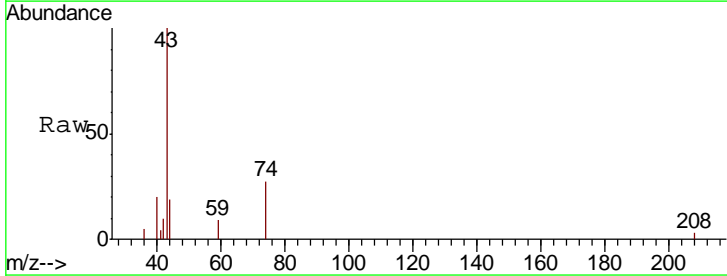
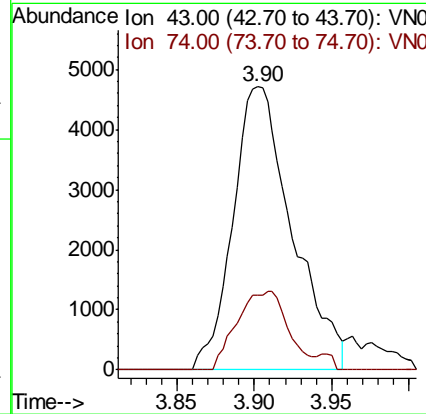
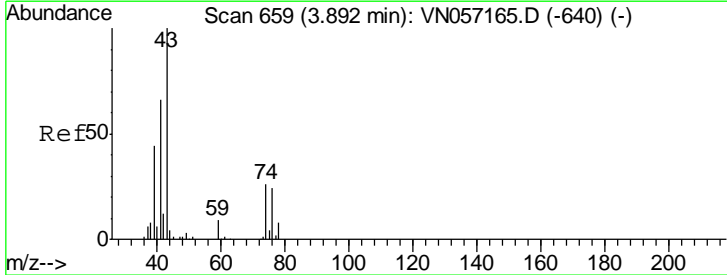
**Instrument :**  
 MSVOA\_N  
**ClientSampled :**  
 VN0810WBL01

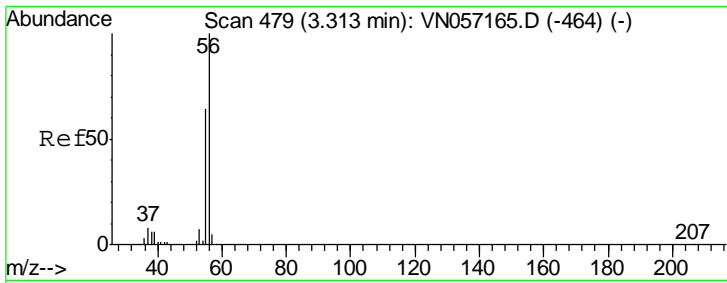
Tgt Ion: 94 Resp: 3168  
 Ion Ratio Lower Upper  
 94 100  
 96 73.3 74.7 112.1#



#12  
 Methyl Acetate  
 Concen: 1.130 ug/l  
 RT: 3.90 min Scan# 662  
 Delta R.T. 0.01 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion: 43 Resp: 12564  
 Ion Ratio Lower Upper  
 43 100  
 74 28.0 20.5 30.7

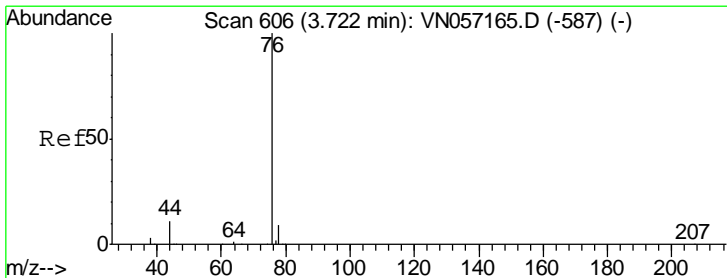
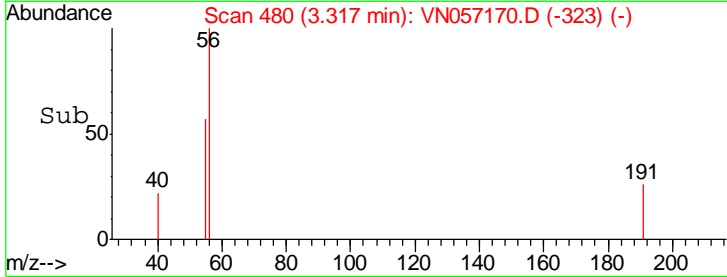
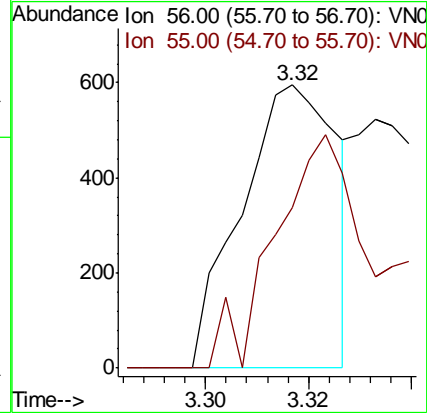
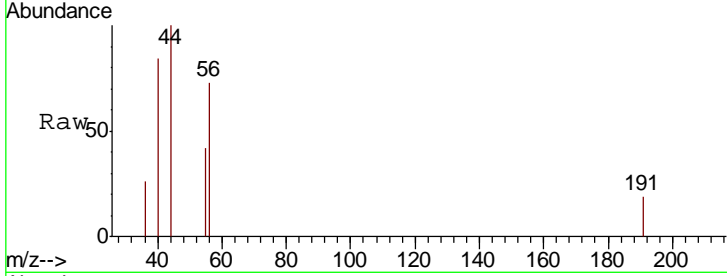




#13  
 Acrolein  
 Concen: 0.622 ug/l  
 RT: 3.32 min Scan# 480  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

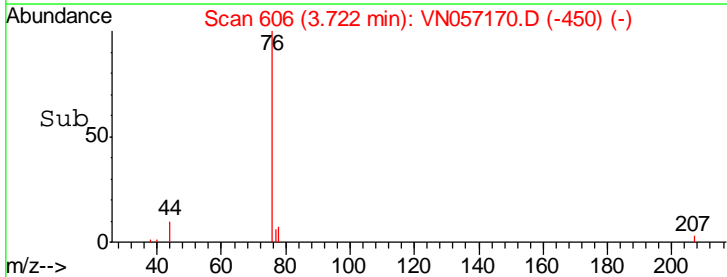
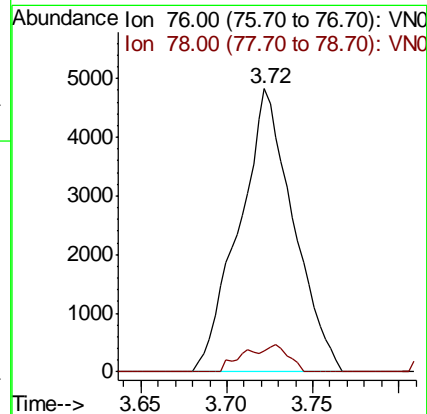
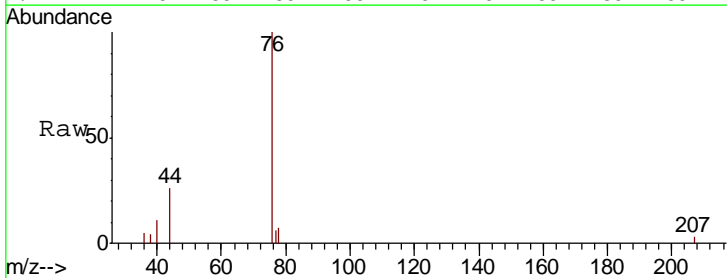
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0810WBL01

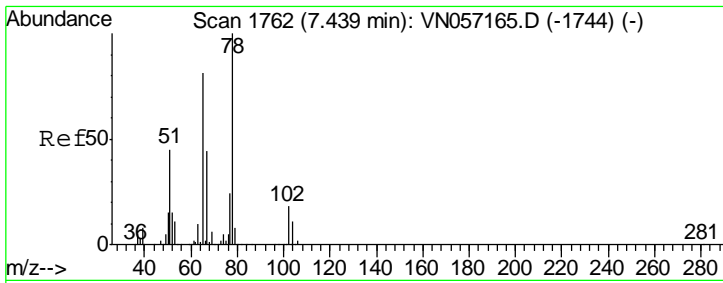
Tgt Ion: 56 Resp: 762  
 Ion Ratio Lower Upper  
 56 100  
 55 67.1 56.5 84.7



#16  
 Carbon Disulfide  
 Concen: 0.367 ug/l  
 RT: 3.72 min Scan# 606  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion: 76 Resp: 10571  
 Ion Ratio Lower Upper  
 76 100  
 78 7.3 7.3 10.9

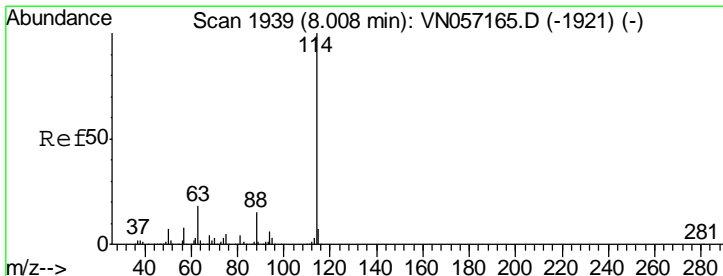
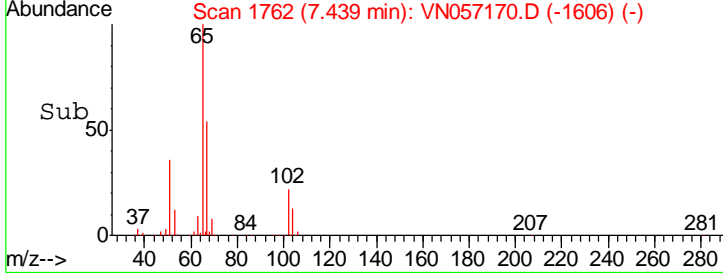
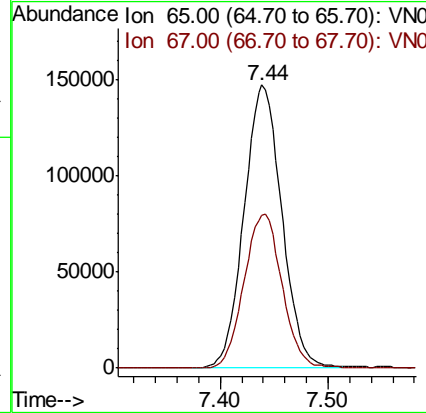
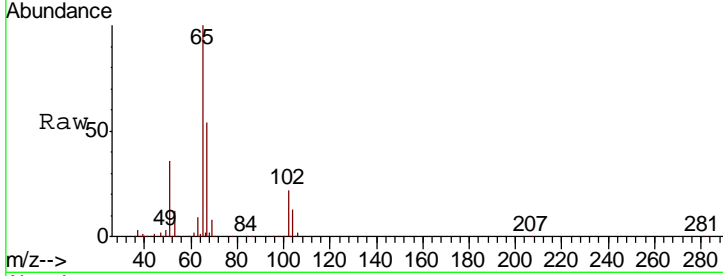




#27  
 1,2-Dichloroethane-d4  
 Concen: 29.568 ug/l  
 RT: 7.44 min Scan# 1762  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

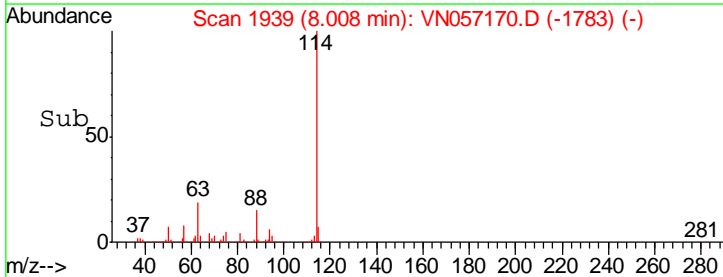
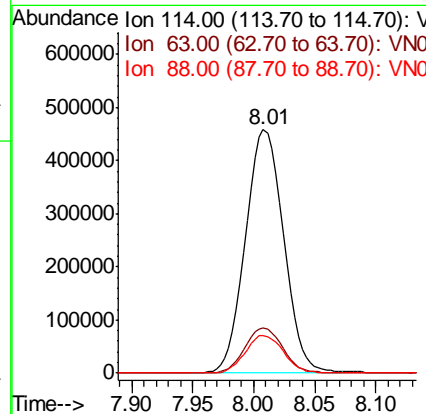
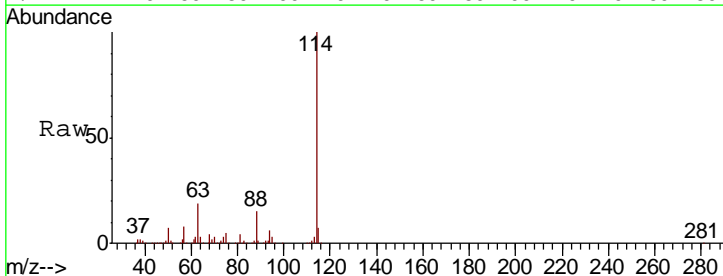
**Instrument :**  
 MSVOA\_N  
**ClientSampled :**  
 VN0810WBL01

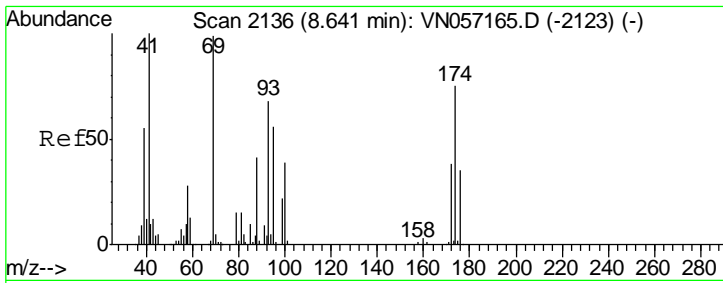
Tgt Ion	Resp	Lower	Upper
65	100		
67	54.8	42.4	63.6



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.01 min Scan# 1939  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion	Resp	Lower	Upper
114	100		
63	18.5	14.6	21.8
88	15.4	12.2	18.2

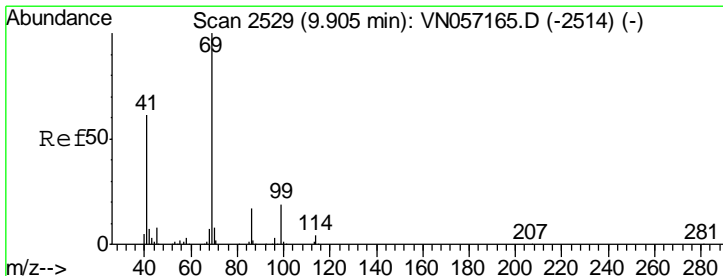
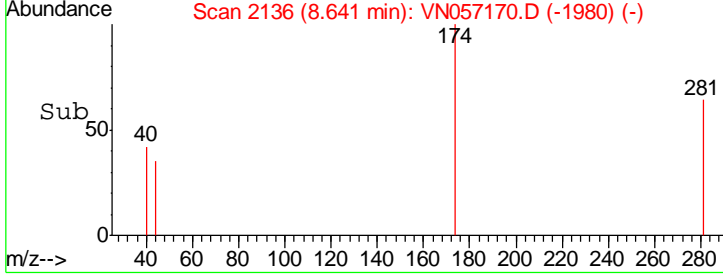
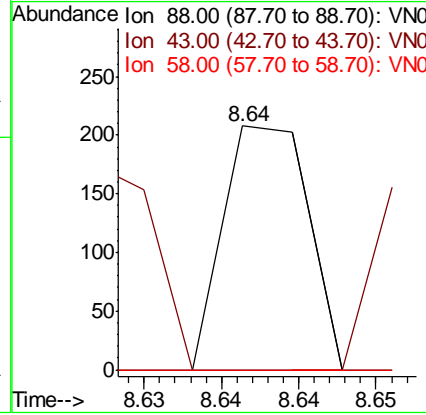
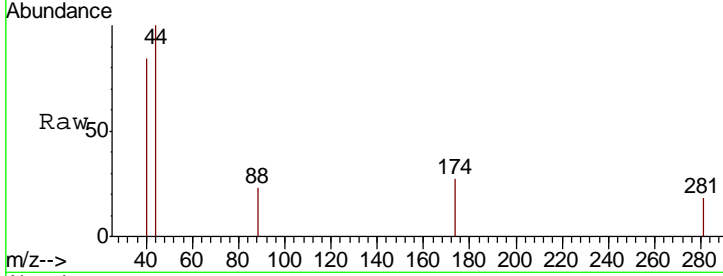




#45  
 1,4-Dioxane  
 Concen: 0.430 ug/l  
 RT: 8.64 min Scan# 2136  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

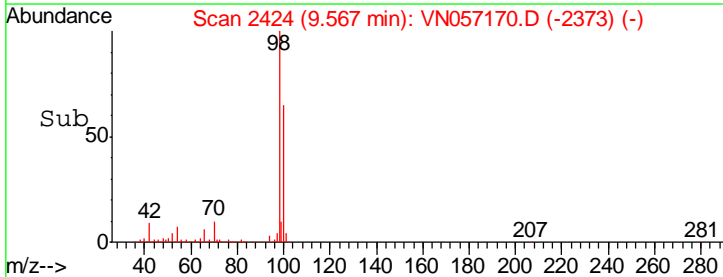
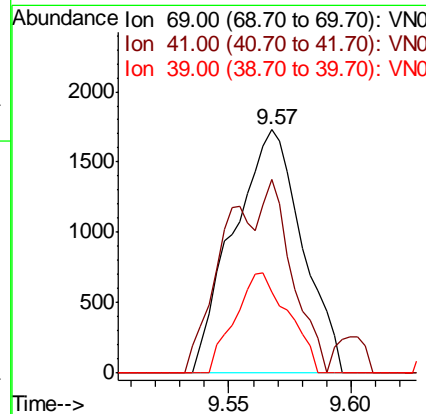
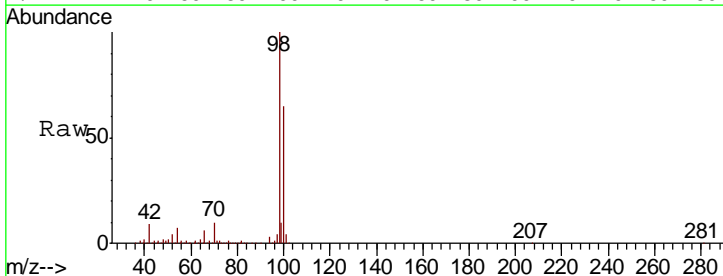
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0810WBL01

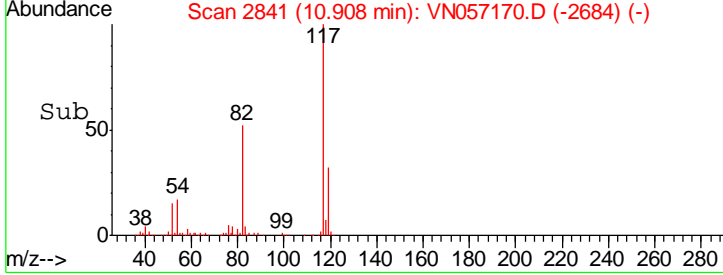
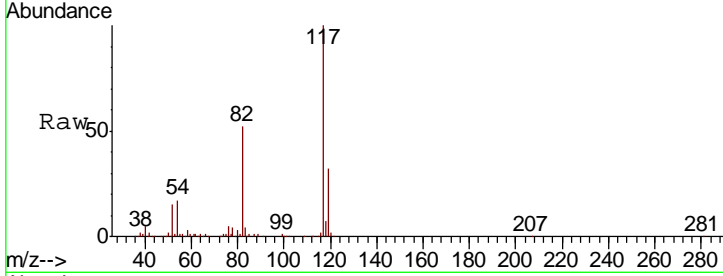
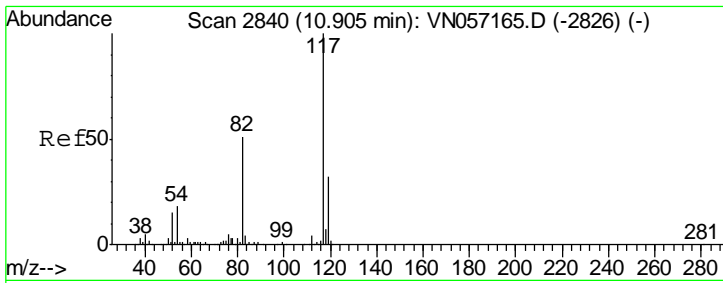
Tgt Ion	Resp	Lower	Upper
88	100		
43	169.6	20.5	30.7#
58	0.0	53.8	80.8#



#51  
 Ethyl methacrylate  
 Concen: 0.221 ug/l  
 RT: 9.57 min Scan# 2424  
 Delta R.T. -0.34 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion	Resp	Lower	Upper
69	100		
41	68.3	30.4	91.2
39	33.4	14.8	44.4

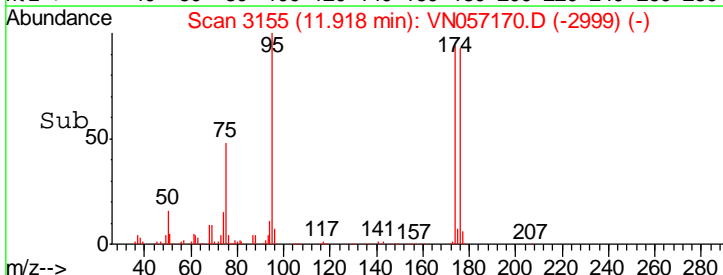
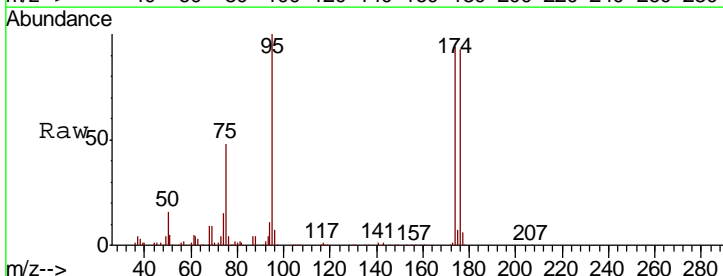
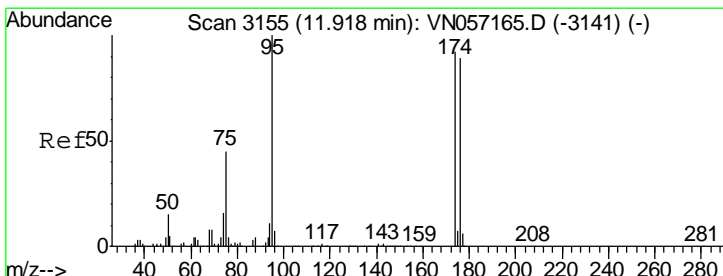
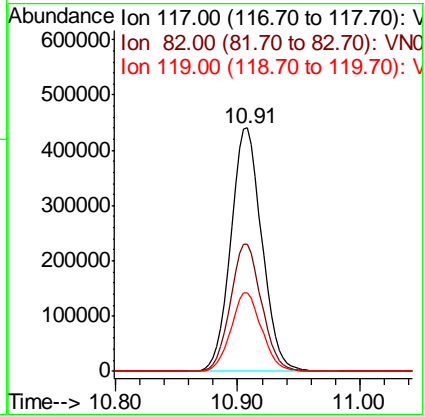




#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 10.91 min Scan# 2841  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

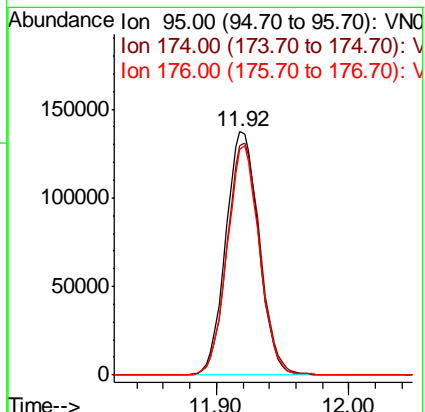
Instrument : MSVOA\_N  
 ClientSampleId : VN0810WBL01

Tgt Ion	Resp	Lower	Upper
117	779334		
82	52.5	41.5	62.3
119	32.0	26.1	39.1

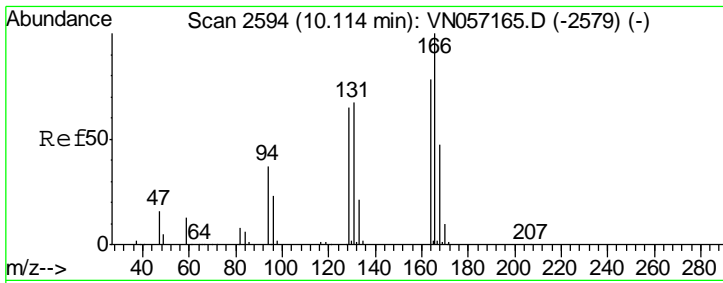


#60  
 4-Bromofluorobenzene  
 Concen: 20.429 ug/l  
 RT: 11.92 min Scan# 3155  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion	Resp	Lower	Upper
95	237064		
174	95.7	74.9	112.3
176	91.6	72.1	108.1





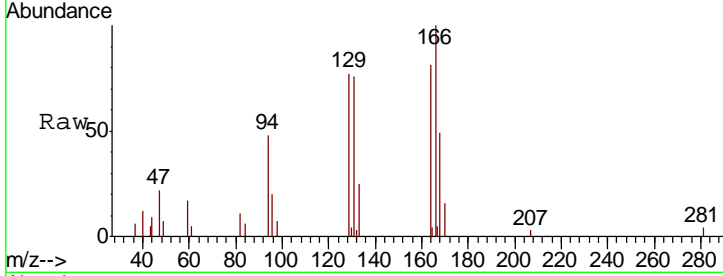


#61  
 Tetrachloroethene  
 Concen: 0.613 ug/l  
 RT: 10.11 min Scan# 2594  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

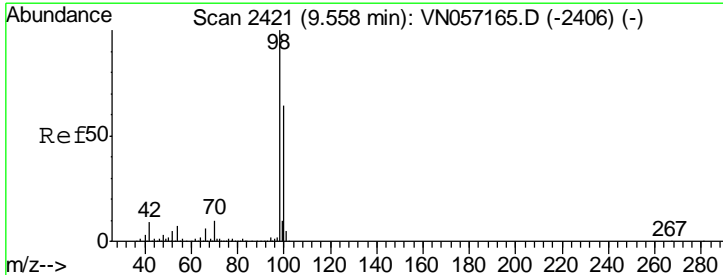
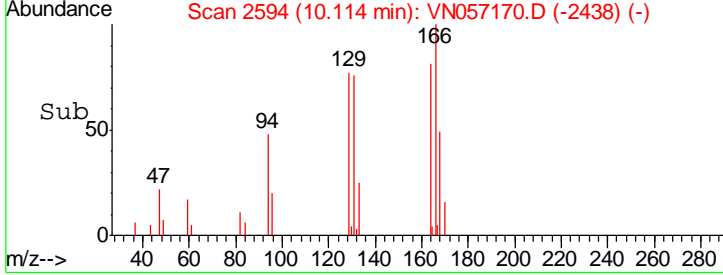
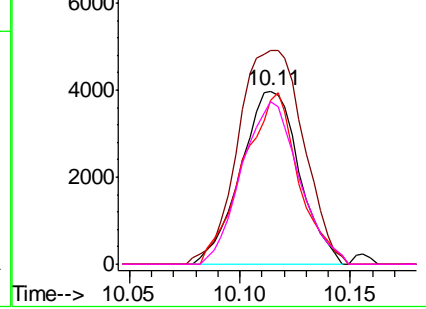
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0810WBL01

Tgt Ion: 164 Resp: 7327

Ion	Ratio	Lower	Upper
164	100		
166	119.2	103.0	154.6
129	94.6	67.3	100.9
131	93.8	68.5	102.7



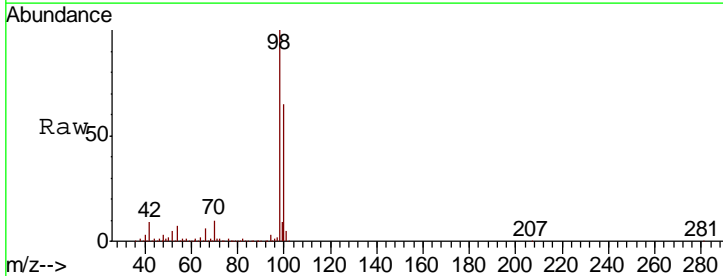
Abundance Ion 163.85 (163.55 to 164.55): V  
 Ion 165.80 (165.50 to 166.50): V  
 Ion 128.90 (128.60 to 129.60): V  
 Ion 130.90 (130.60 to 131.60): V



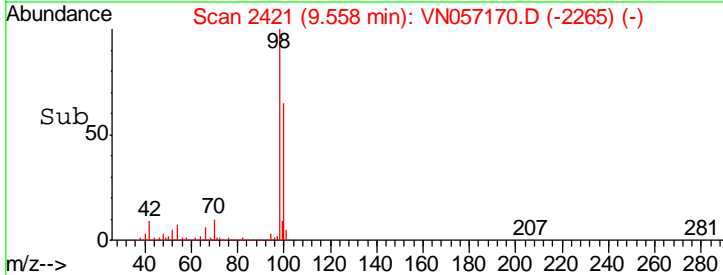
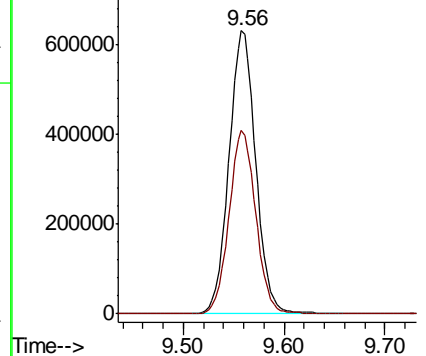
#63  
 Toluene-d8  
 Concen: 32.521 ug/l  
 RT: 9.56 min Scan# 2421  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

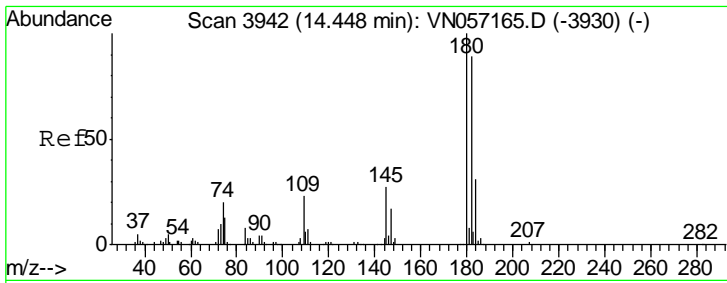
Tgt Ion: 98 Resp: 1169966

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.4	78.6



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

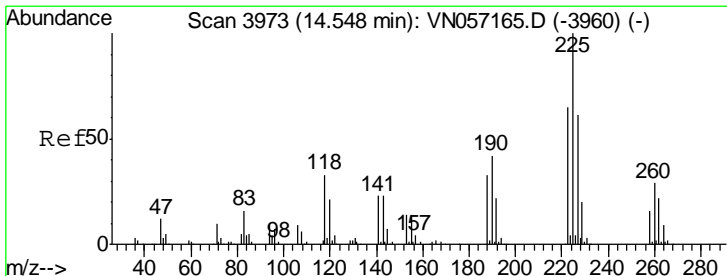
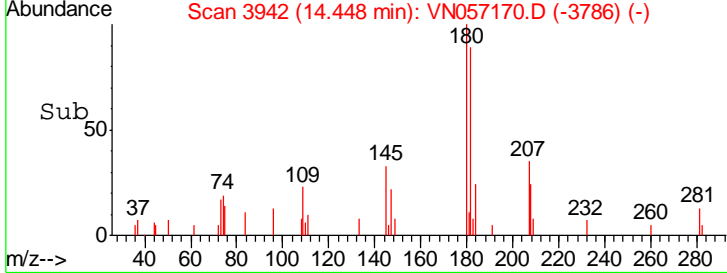
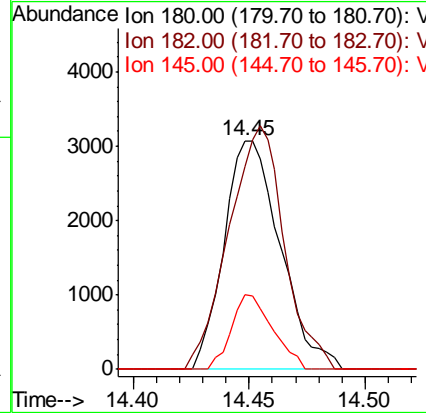
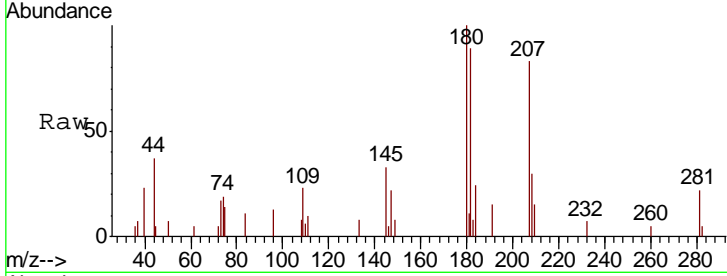




#89  
 1,2,4-Trichlorobenzene  
 Concen: 9.525 ug/l  
 RT: 14.45 min Scan# 3942  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

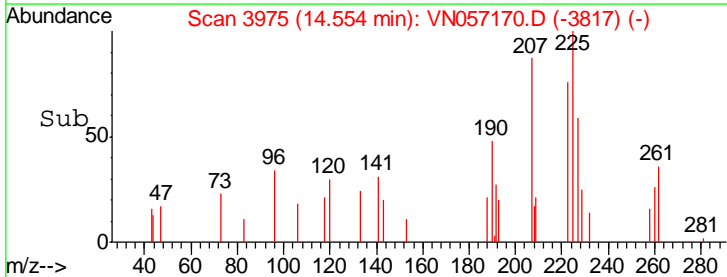
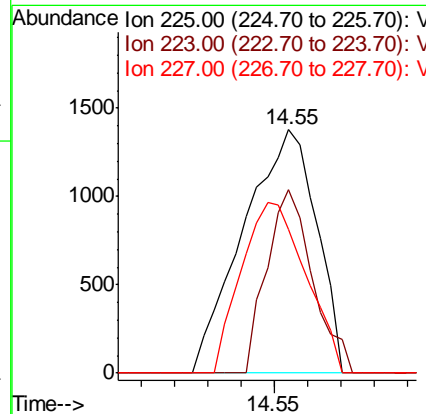
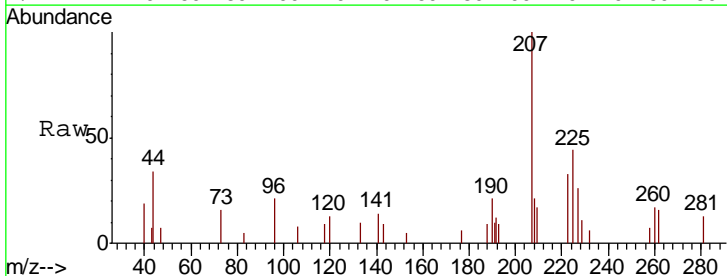
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0810WBL01

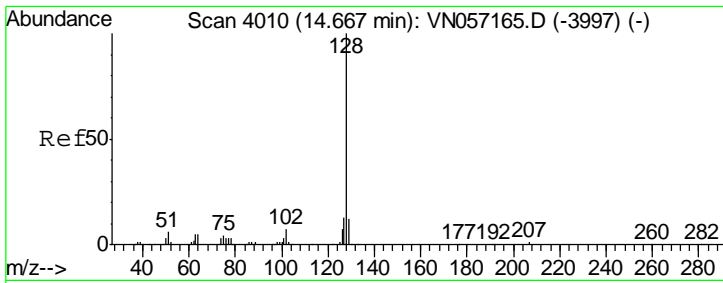
Tgt Ion	Resp	Lower	Upper
180	100		
182	105.0	75.0	112.6
145	23.7	21.7	32.5



#90  
 Hexachlorobutadiene  
 Concen: 0.267 ug/l  
 RT: 14.55 min Scan# 3975  
 Delta R.T. 0.01 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion	Resp	Lower	Upper
225	100		
223	47.3	0.0	128.0
227	61.8	0.0	125.6

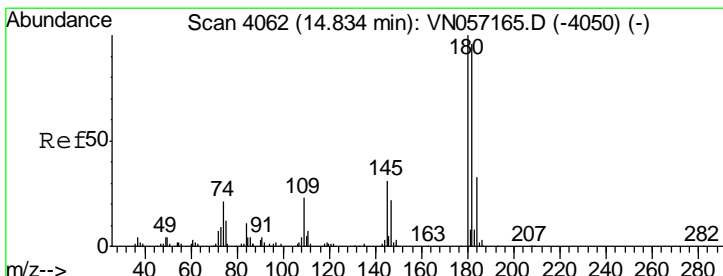
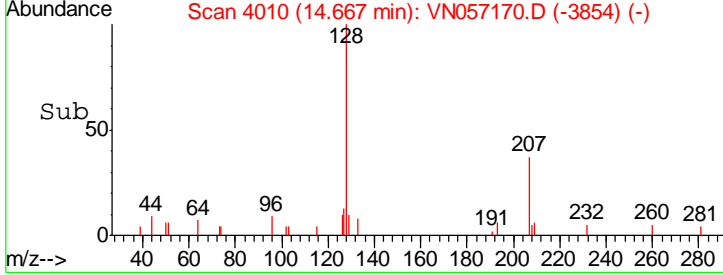
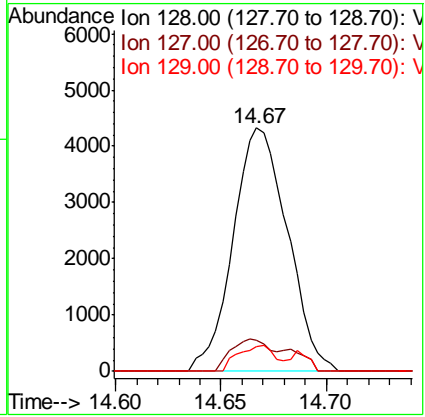
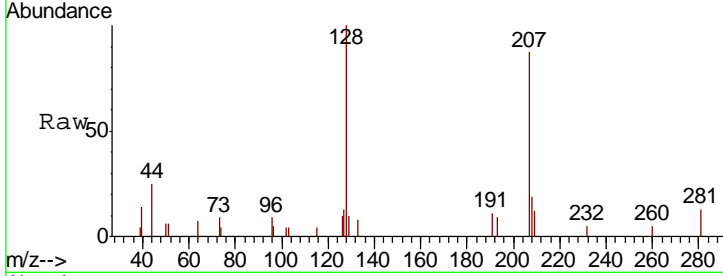




#91  
 Naphthalene  
 Concen: 0.555 ug/l  
 RT: 14.67 min Scan# 4010  
 Delta R.T. 0.00 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Instrument : MSVOA\_N  
 ClientSampleId : VN0810WBL01

Tgt Ion	Resp	Lower	Upper
128	100		
127	9.8	10.2	15.4#
129	7.3	8.6	13.0#



#92  
 1,2,3-Trichlorobenzene  
 Concen: 9.065 ug/l  
 RT: 14.84 min Scan# 4064  
 Delta R.T. 0.01 min  
 Lab File: VN057170.D  
 Acq: 10 Aug 2019 12:39

Tgt Ion	Resp	Lower	Upper
180	100		
182	103.0	0.0	195.8
145	33.2	0.0	61.2

