

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\  
 Data File : VN056404.D  
 Acq On : 20 Jun 2019 15:49  
 Operator : JC/SP  
 Sample : K3159-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 OR-02-061919-A

Quant Time: Jun 21 04:28:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 03:45:40 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	362807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	615926	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	623604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182150	50.00	ug/l	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	207299	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
35) Dibromofluoromethane	7.59	113	178853	46.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.10%	
50) Toluene-d8	10.09	98	774966	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.40	95	249906	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	

## Target Compounds

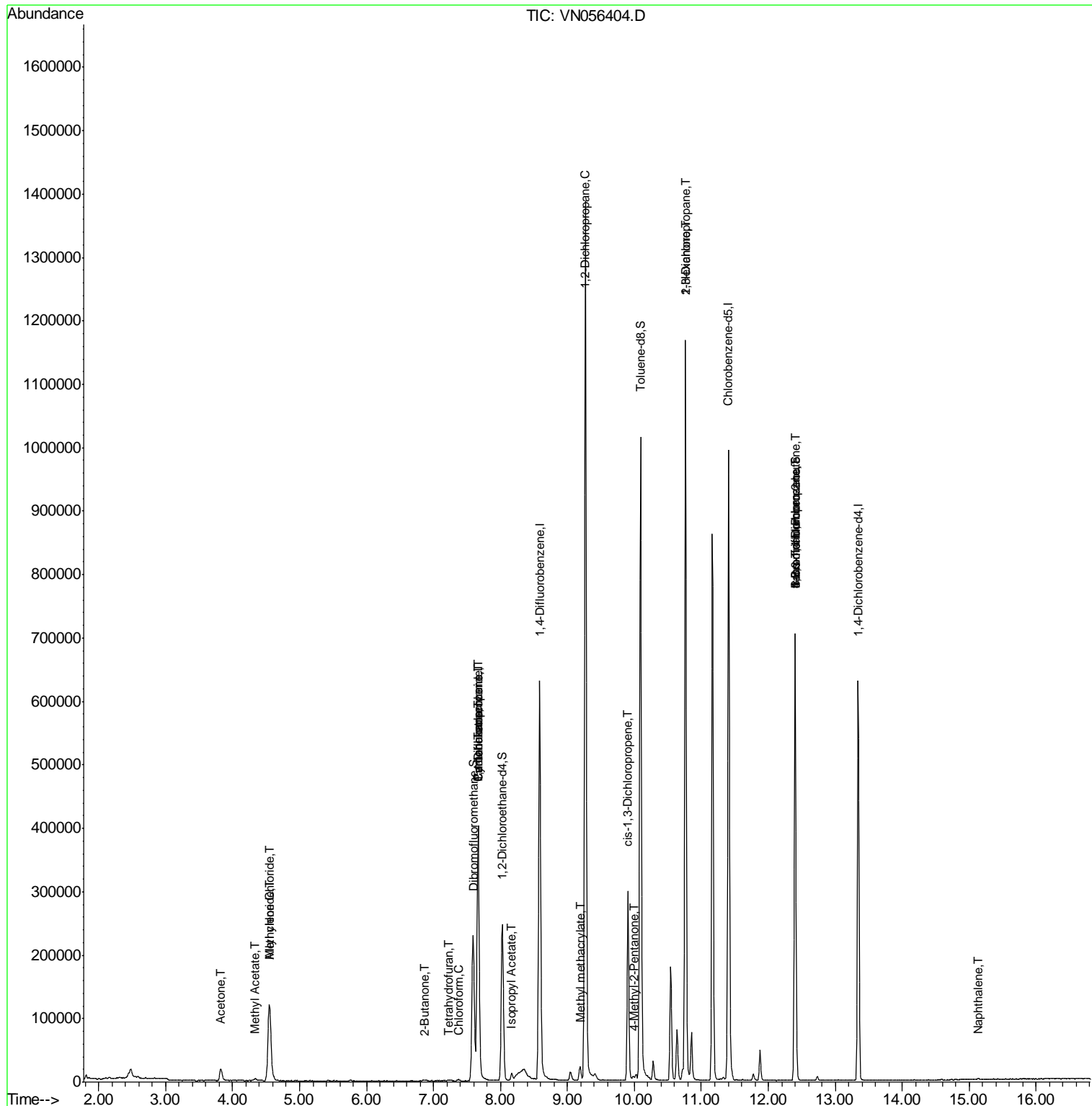
						Qvalue
14) Allyl chloride	4.54	41	4014	0.752	ug/l #	28
16) Acetone	3.82	43	32915	16.338	ug/l	99
18) Methyl Acetate	4.34	43	6676	0.839	ug/l	93
20) Methylene Chloride	4.55	84	100692	26.088	ug/l	98
25) 2-Butanone	6.87	43	2040	0.765	ug/l #	49
29) Tetrahydrofuran	7.23	42	1018	0.625	ug/l #	44
30) Chloroform	7.37	83	2425	0.382	ug/l	92
31) Cyclohexane	7.67	56	5834	0.940	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	24020	4.431	ug/l #	49
38) Carbon Tetrachloride	7.67	117	30878	6.513	ug/l #	15
43) Isopropyl Acetate	8.17	43	13412	1.633	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1715	0.385	ug/l #	43
48) Methyl methacrylate	9.18	41	8143	1.978	ug/l #	12
51) 4-Methyl-2-Pentanone	9.98	43	4082	0.770	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	55996	9.397	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	12087	1.756	ug/l #	42
59) 2-Hexanone	10.76	43	168207	43.163	ug/l #	51
71) Bromoform	12.40	173	1867	3.655	ug/l #	1
73) Isopropylbenzene	12.40	105	168	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	116559	30.861	ug/l #	100
79) 2-Chlorotoluene	12.73	91	274	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	3565	Below Cal		87
81) trans-1,4-Dichloro-2-buten	12.40	75	116559	109.684	ug/l #	8
83) tert-Butylbenzene	12.74	119	326	Below Cal	#	66
95) Naphthalene	15.14	128	1958	5.455	ug/l #	70

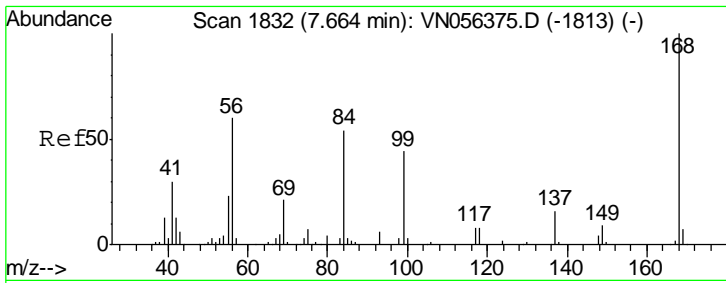
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
 MSVOA\_N  
 Client Sample Id :  
 OR-02-061919-A

Quant Time: Jun 21 04:28:05 2019  
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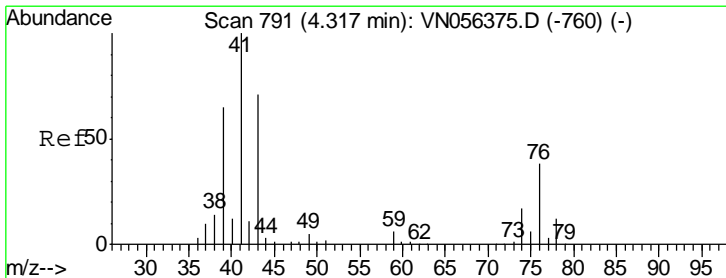
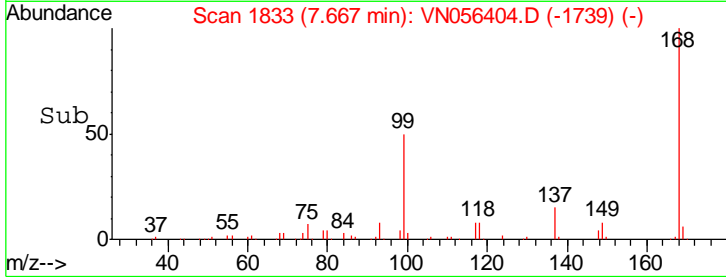
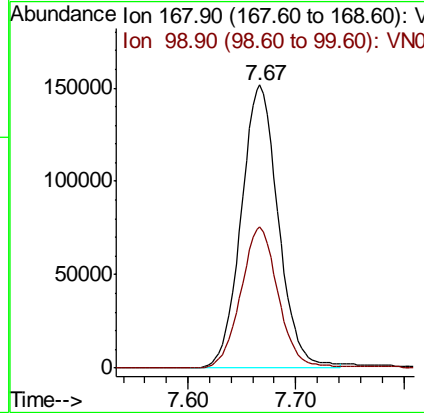
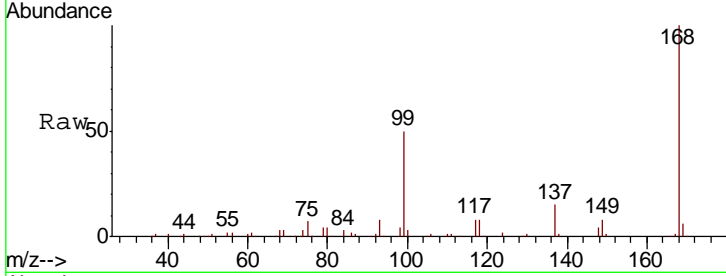




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

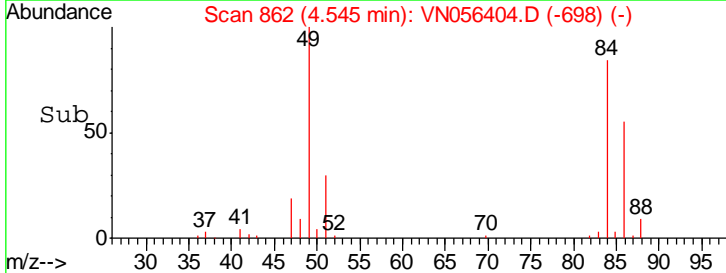
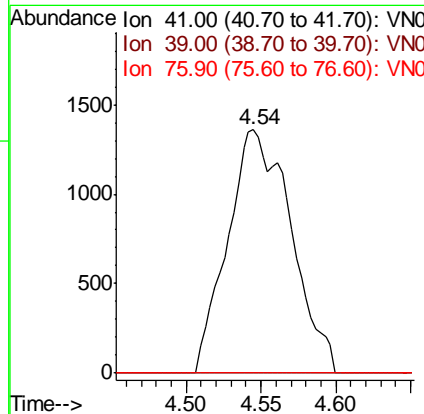
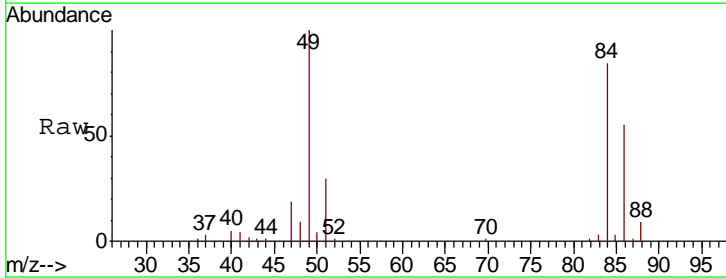
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 OR-02-061919-A

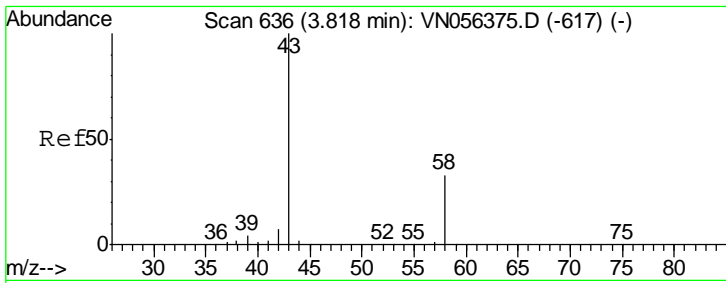
Tgt Ion	Resp	Lower	Upper
168	100		
99	49.7	40.6	61.0



#14  
 Allyl chloride  
 Concen: 0.752 ug/l  
 RT: 4.54 min Scan# 862  
 Delta R.T. 0.23 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
41	100		
39	0.0	48.6	73.0#
76	0.0	26.6	40.0#

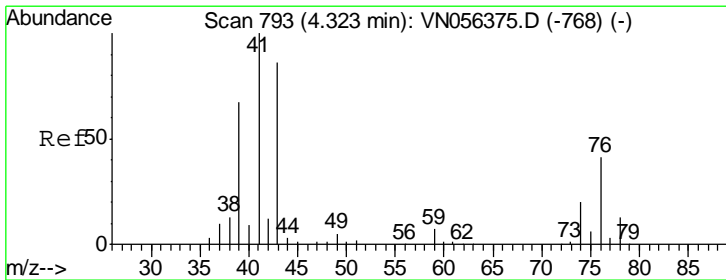
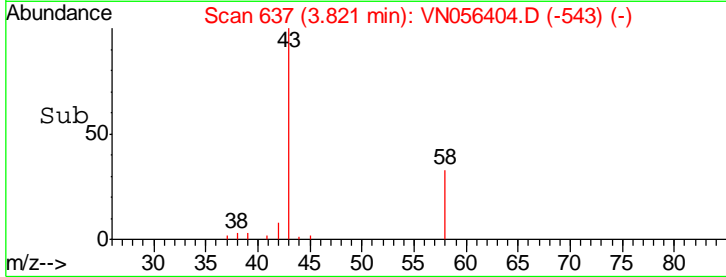
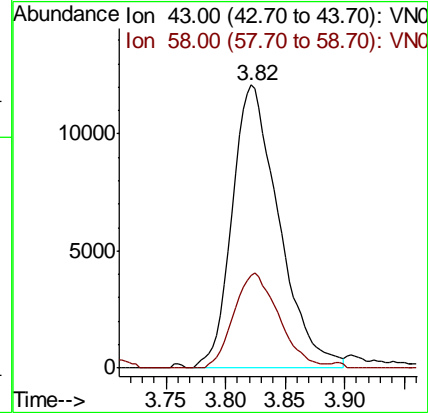
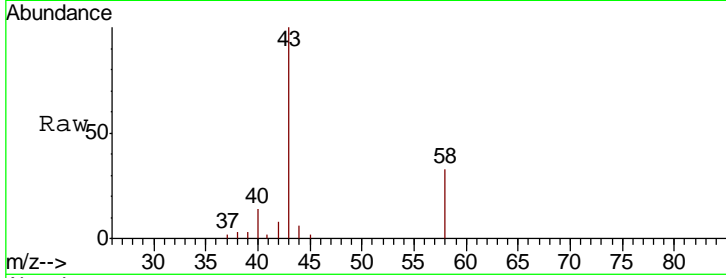




#16  
 Acetone  
 Concen: 16.338 ug/l  
 RT: 3.82 min Scan# 637  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

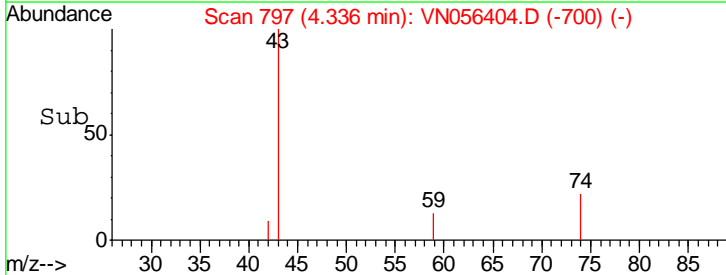
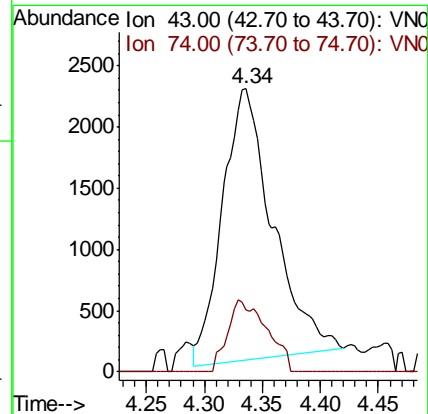
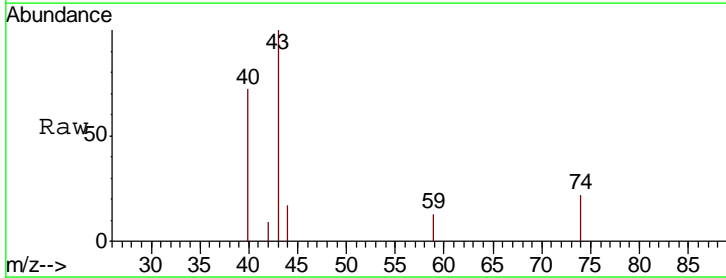
Instrument :  
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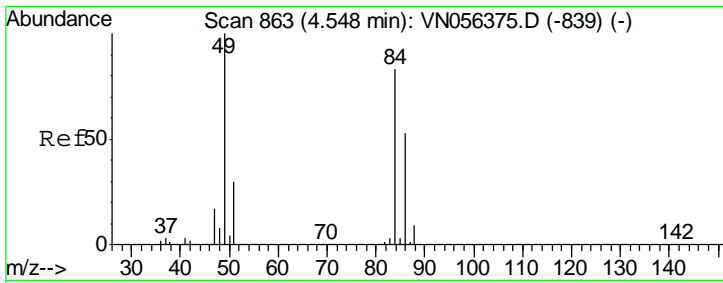
Tgt Ion	Resp	Lower	Upper
43	32915		
58	32.5	26.4	39.6



#18  
 Methyl Acetate  
 Concen: 0.839 ug/l  
 RT: 4.34 min Scan# 797  
 Delta R.T. 0.01 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
43	6676		
74	20.6	19.2	28.8

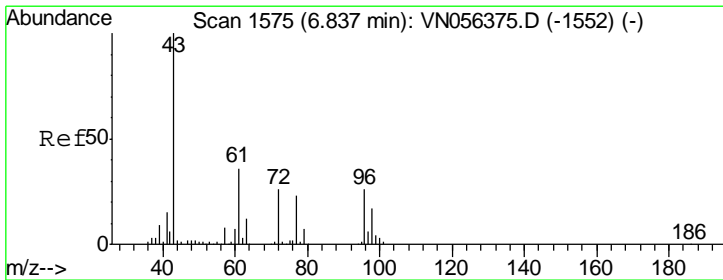
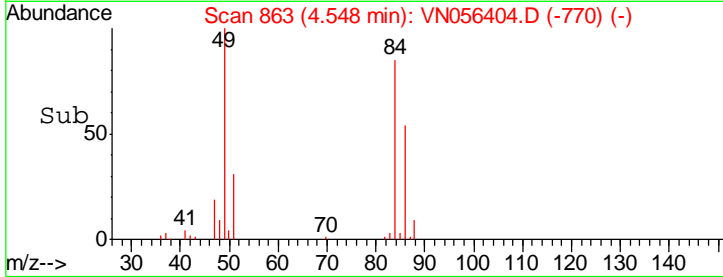
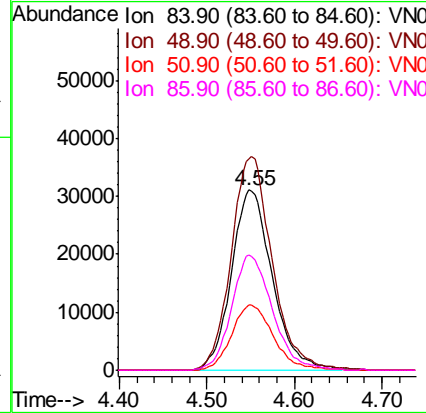
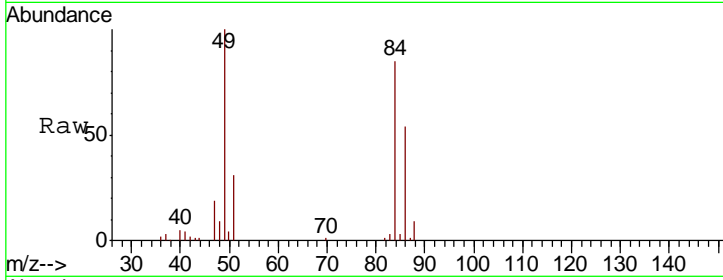




#20  
 Methylene Chloride  
 Concen: 26.088 ug/l  
 RT: 4.55 min Scan# 863  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

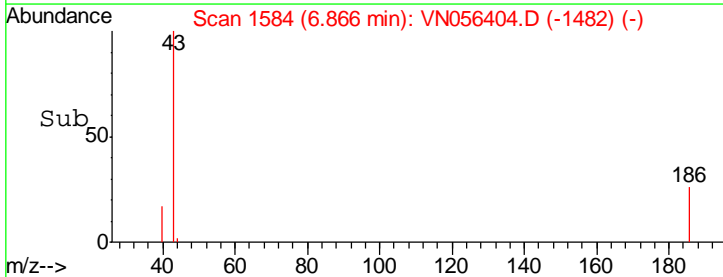
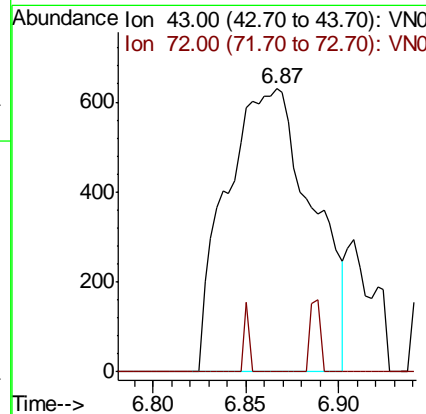
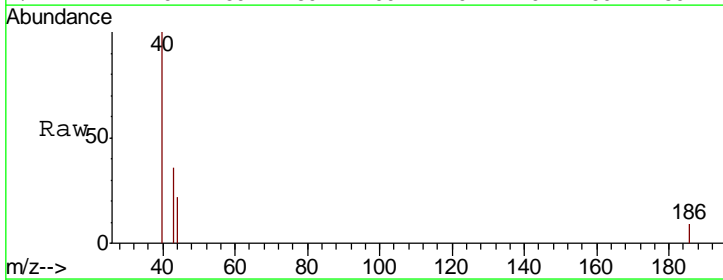
Instrument :  
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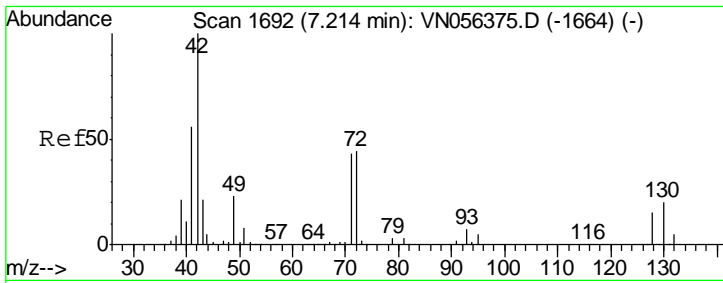
Tgt Ion	Resp	Lower	Upper
84	100		
49	117.5	96.4	144.6
51	36.0	28.6	43.0
86	63.8	51.4	77.2



#25  
 2-Butanone  
 Concen: 0.765 ug/l  
 RT: 6.87 min Scan# 1584  
 Delta R.T. 0.03 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	20.6	31.0#

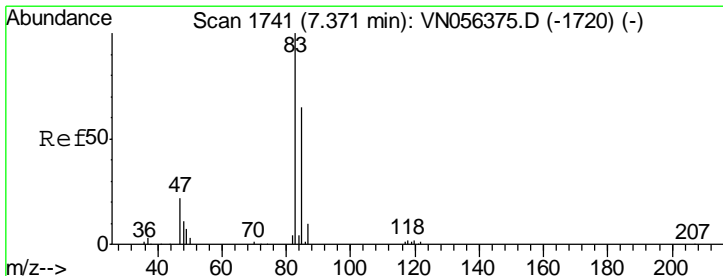
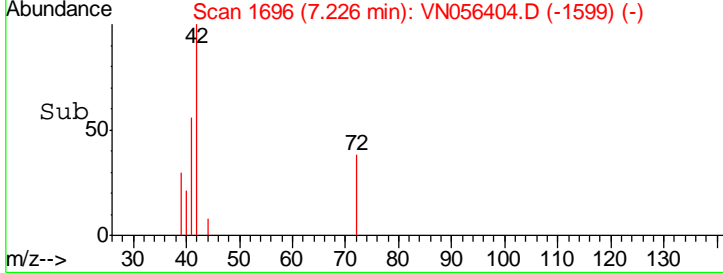
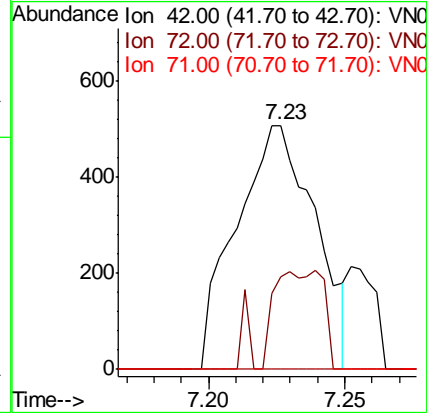
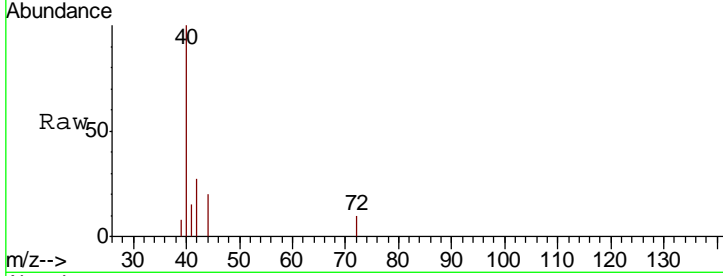




#29  
 Tetrahydrofuran  
 Concen: 0.625 ug/l  
 RT: 7.23 min Scan# 1696  
 Delta R.T. 0.01 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

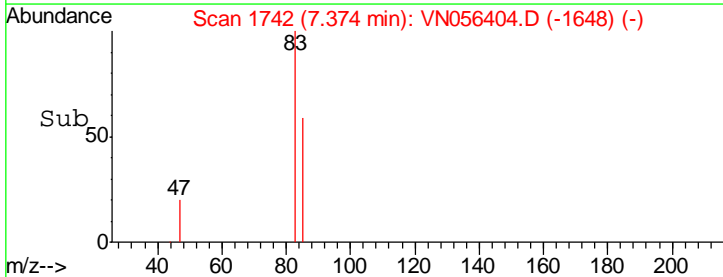
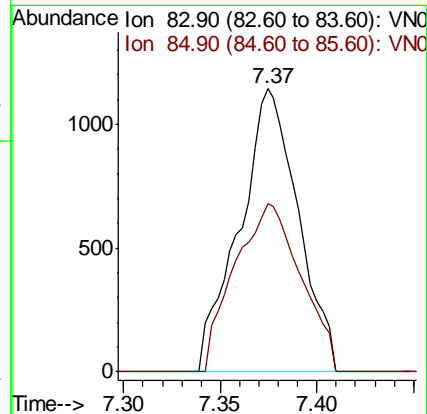
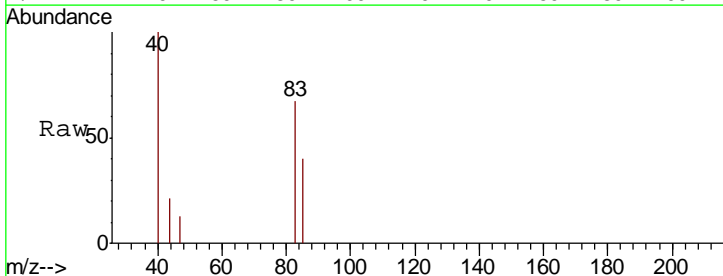
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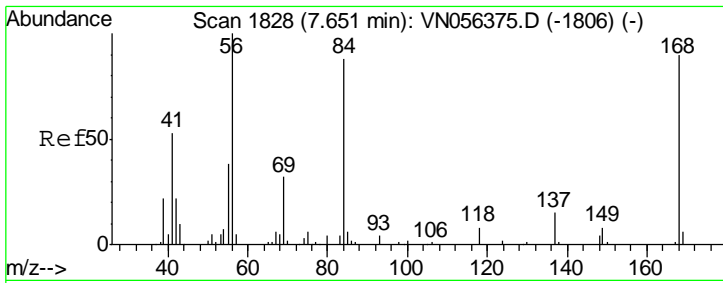
Tgt Ion	Resp	Lower	Upper
42	1018		
72	14.0	34.7	52.1#
71	0.0	33.0	49.6#



#30  
 Chloroform  
 Concen: 0.382 ug/l  
 RT: 7.37 min Scan# 1742  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
83	2425		
85	59.3	52.3	78.5

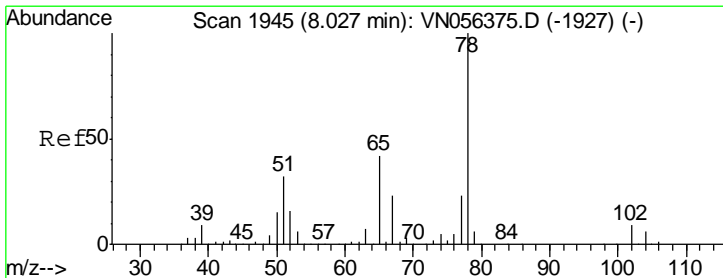
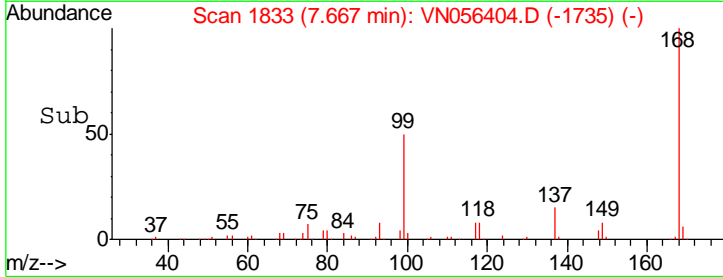
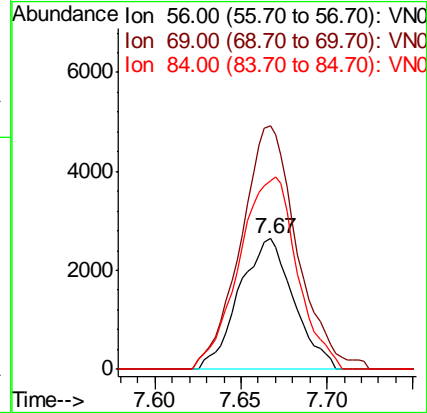
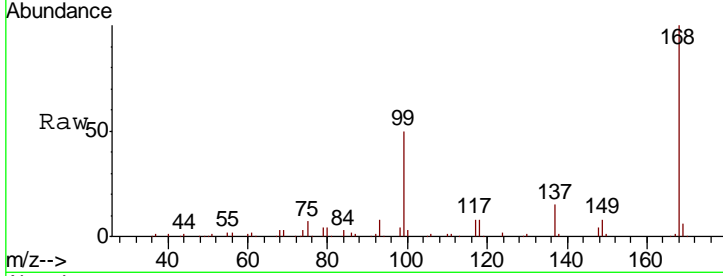




#31  
 Cyclohexane  
 Concen: 0.940 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. 0.02 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

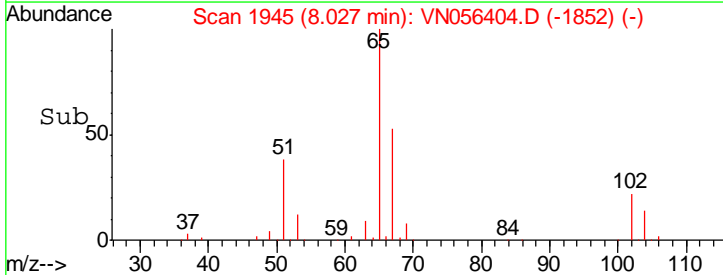
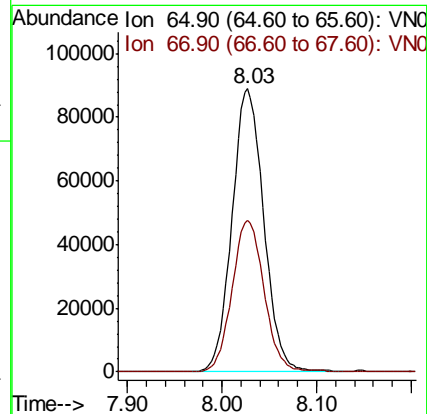
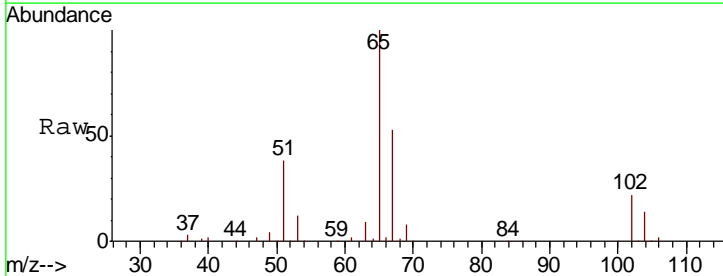
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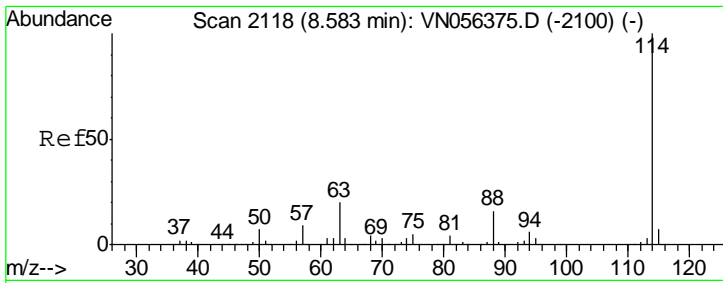
Tgt Ion	Resp	Lower	Upper
56	100		
69	186.0	25.8	38.6#
84	144.0	69.4	104.0#



#33  
 1,2-Dichloroethane-d4  
 Concen: 51.554 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
65	100		
67	54.0	0.0	109.0

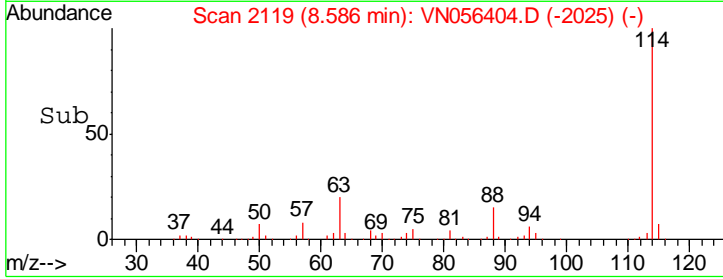
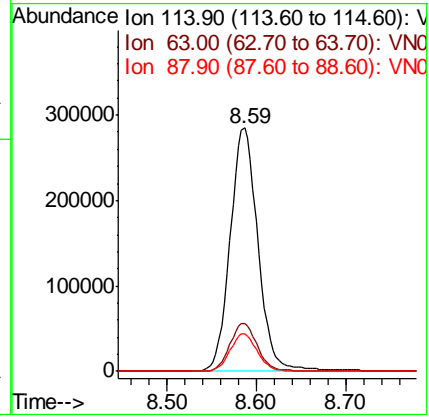
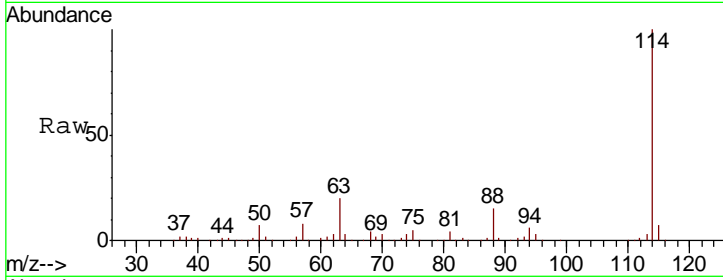




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

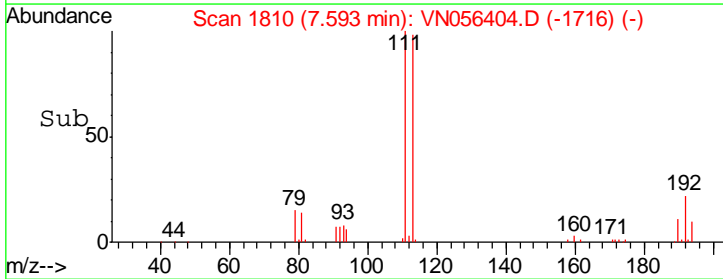
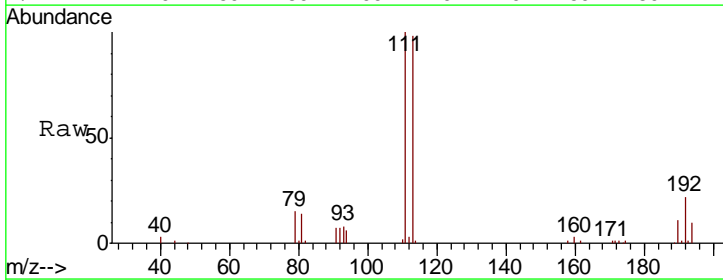
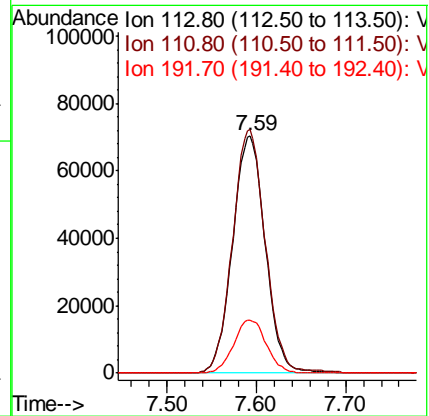
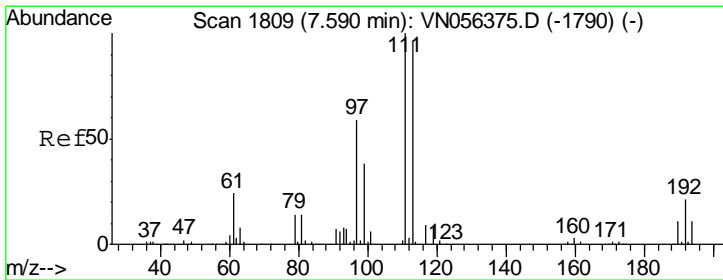
Instrument : MSVOA\_N  
 ClientSampled : OR-02-061919-A

Tgt Ion	Resp	Lower	Upper
114	100		
63	19.7	0.0	39.2
88	15.3	0.0	31.4

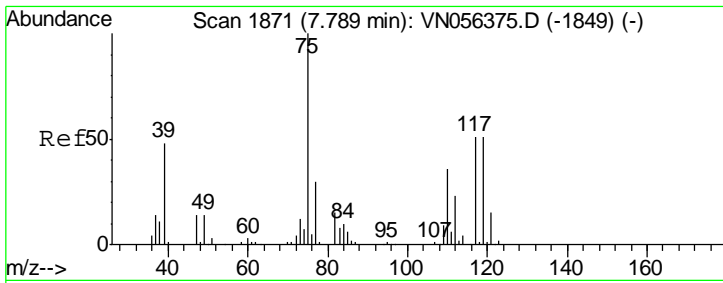


#35  
 Dibromofluoromethane  
 Concen: 46.548 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
113	100		
111	102.6	82.9	124.3
192	22.3	17.7	26.5



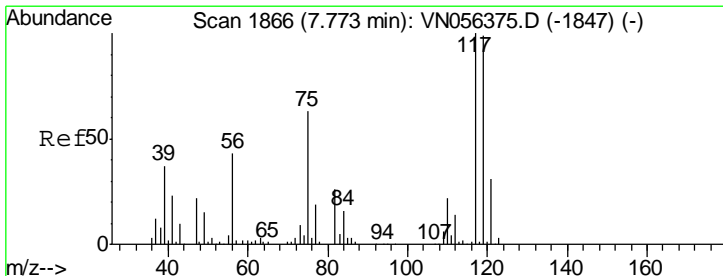
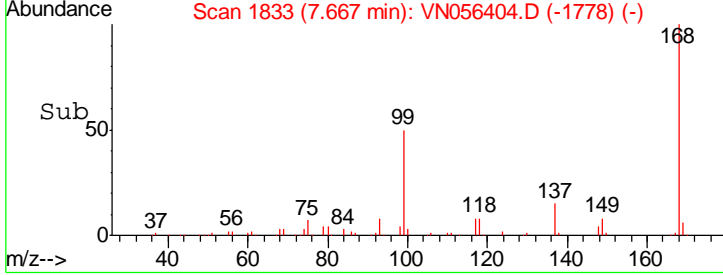
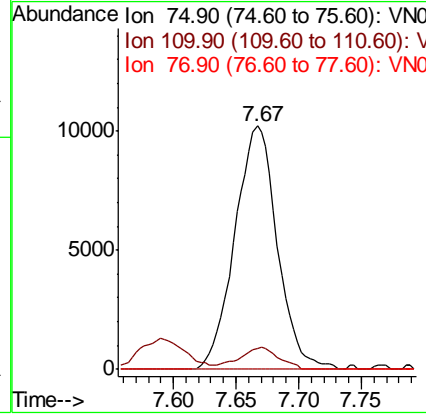
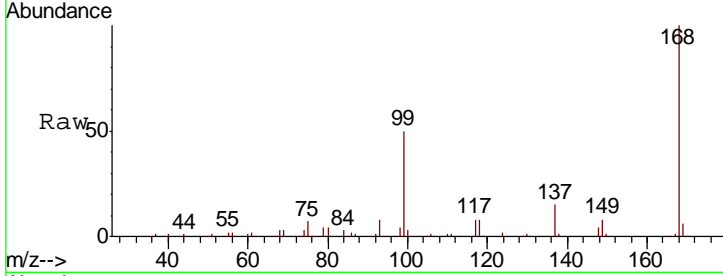




#36  
 1,1-Dichloropropene  
 Concen: 4.431 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.12 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

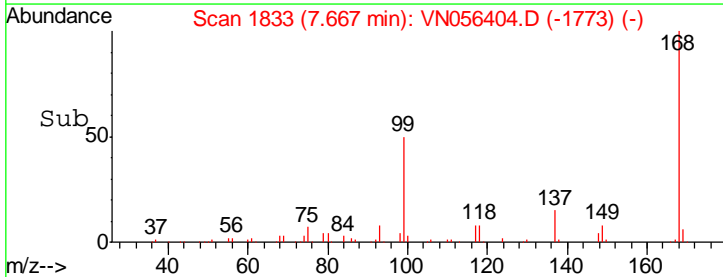
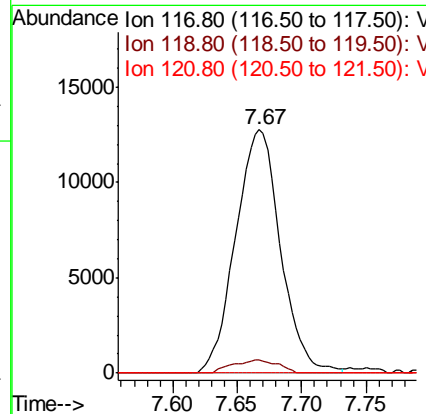
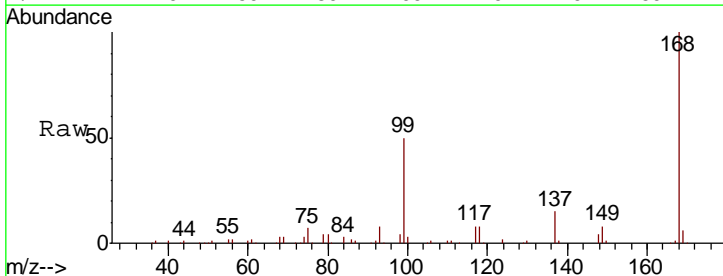
Instrument : MSVOA\_N  
 ClientSampled : OR-02-061919-A

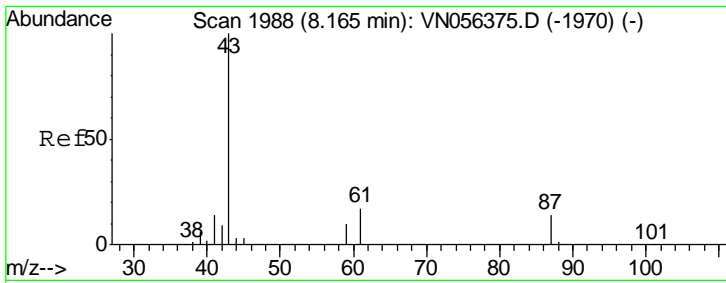
Tgt Ion	Resp	Lower	Upper
75	24020		
110	8.4	18.1	54.3#
77	0.0	24.6	36.8#



#38  
 Carbon Tetrachloride  
 Concen: 6.513 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
117	30878		
119	5.5	79.1	118.7#
121	0.0	24.8	37.2#

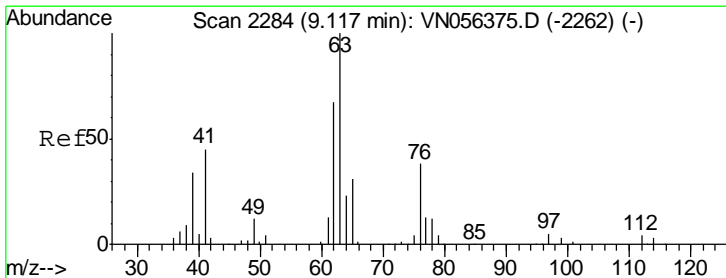
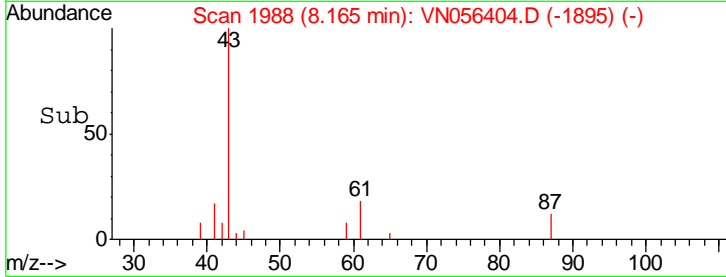
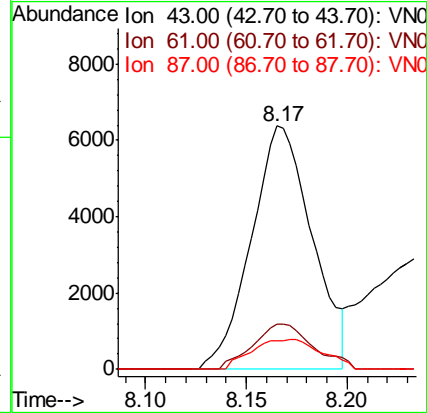
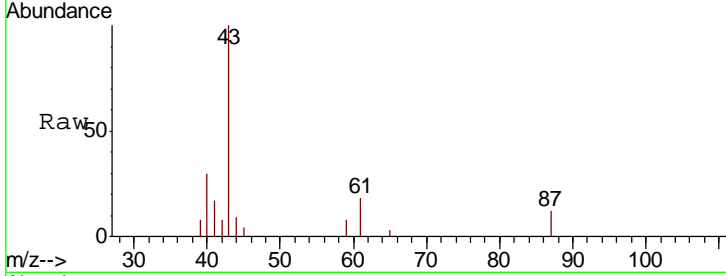




#43  
 Isopropyl Acetate  
 Concen: 1.633 ug/l  
 RT: 8.17 min Scan# 1988  
 Delta R.T. -0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

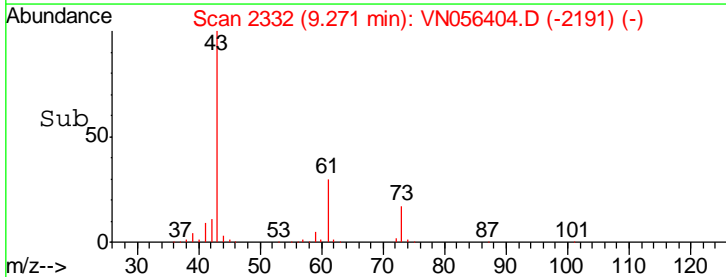
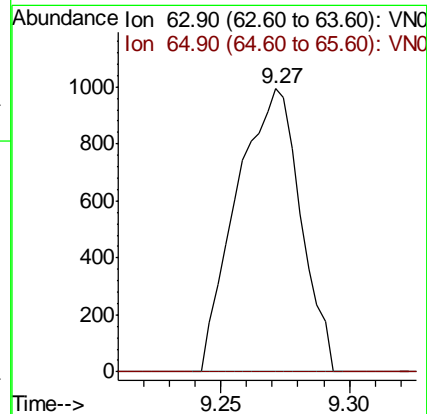
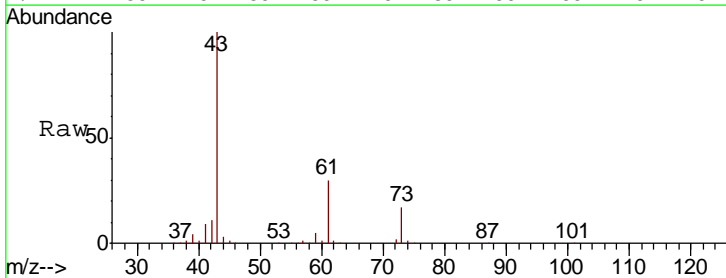
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 OR-02-061919-A

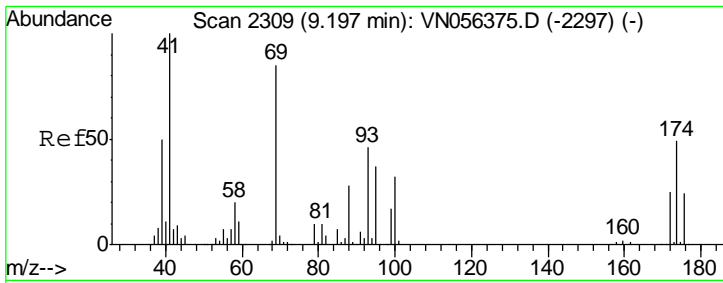
Tgt Ion	Resp	Lower	Upper
43	13412		
61	18.3	22.0	33.0#
87	14.2	11.0	16.4



#45  
 1,2-Dichloropropane  
 Concen: 0.385 ug/l  
 RT: 9.27 min Scan# 2332  
 Delta R.T. 0.15 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
63	1715		
65	0.0	25.0	37.6#

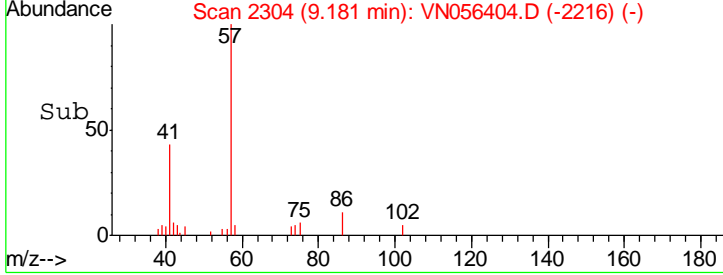
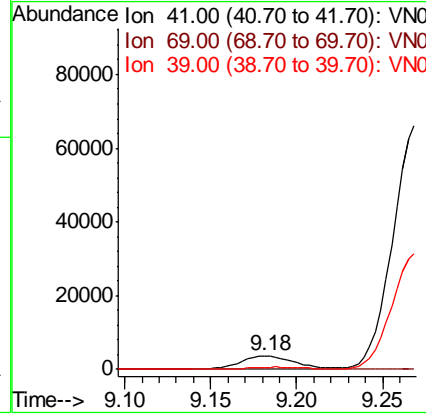
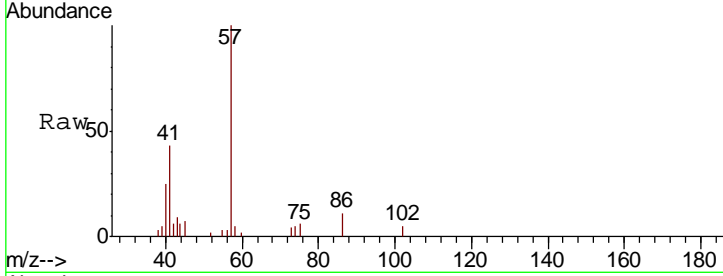




#48  
 Methyl methacrylate  
 Concen: 1.978 ug/l  
 RT: 9.18 min Scan# 2304  
 Delta R.T. -0.02 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

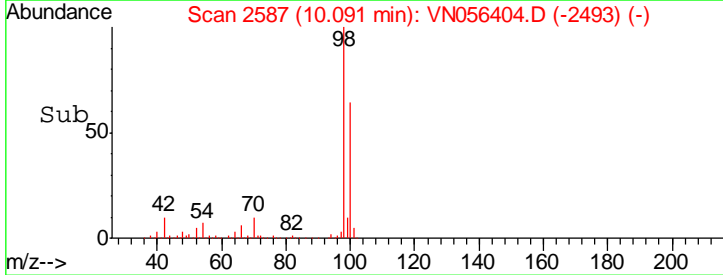
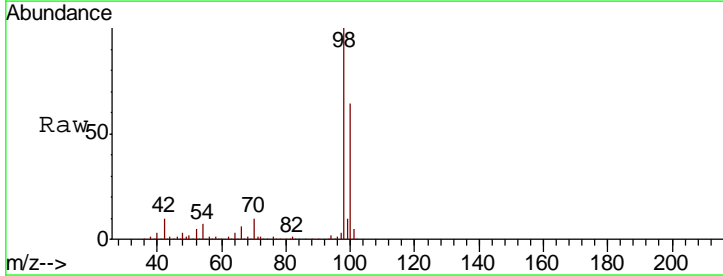
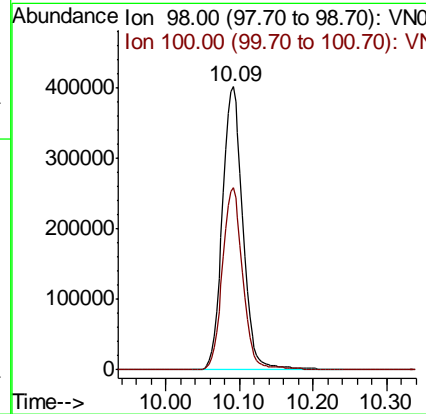
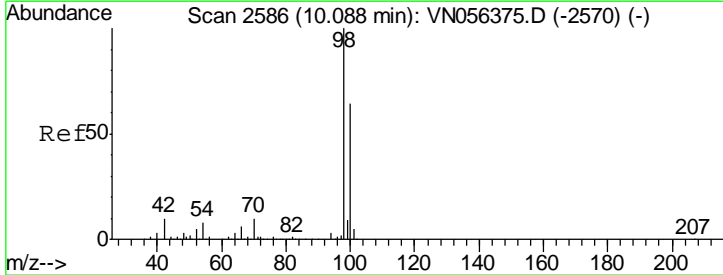
**Instrument :**  
 MSVOA\_N  
**ClientSampled :**  
 OR-02-061919-A

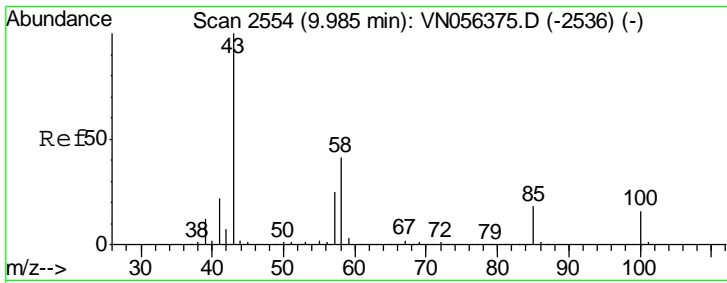
Tgt Ion	Resp	Lower	Upper
41	100		
69	0.0	72.6	109.0#
39	0.0	42.6	63.8#



#50  
 Toluene-d8  
 Concen: 51.834 ug/l  
 RT: 10.09 min Scan# 2587  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
98	100		
100	64.2	52.2	78.2



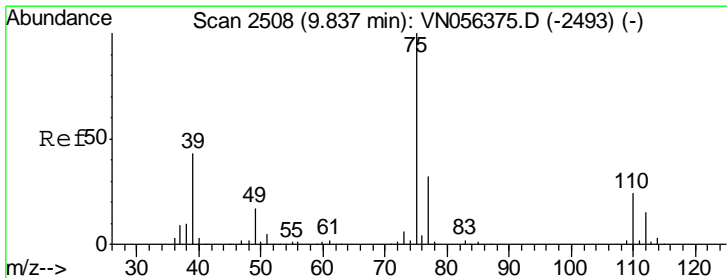
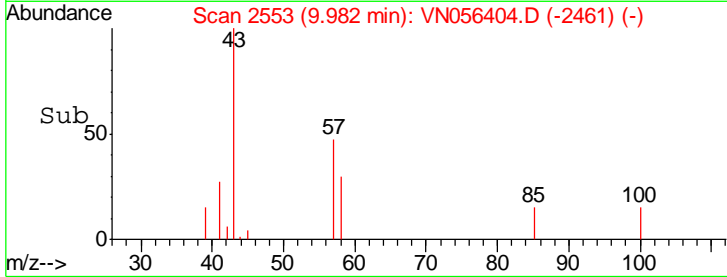
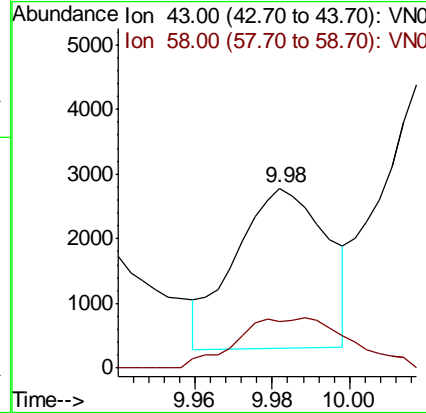
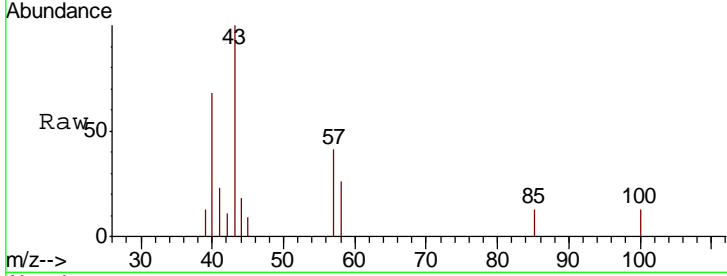


#51  
 4-Methyl-2-Pentanone  
 Concen: 0.770 ug/l  
 RT: 9.98 min Scan# 2553  
 Delta R.T. -0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 OR-02-061919-A

Tgt Ion: 43 Resp: 4082

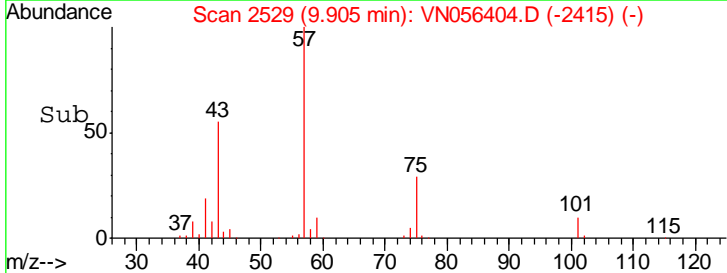
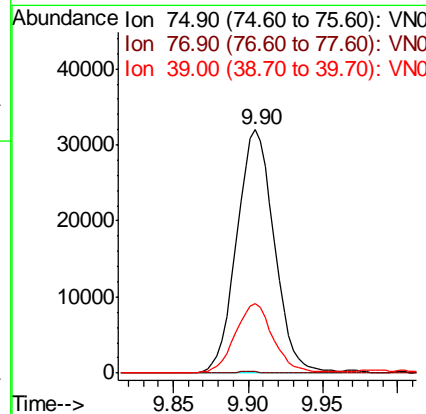
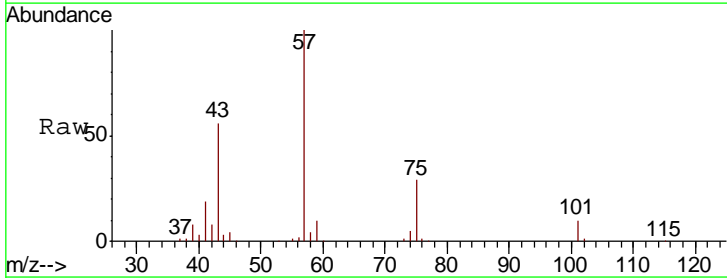
Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.8	47.8

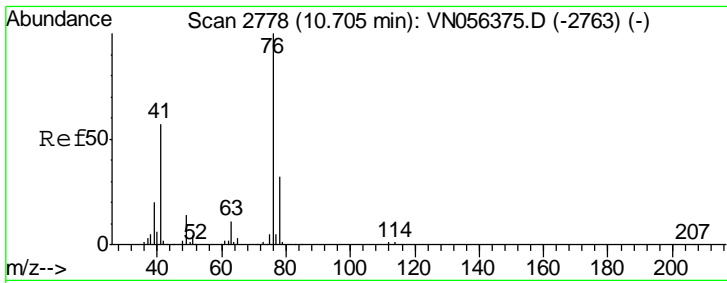


#54  
 cis-1,3-Dichloropropene  
 Concen: 9.397 ug/l  
 RT: 9.90 min Scan# 2529  
 Delta R.T. 0.07 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion: 75 Resp: 55996

Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.2	37.8#
39	28.4	34.2	51.4#

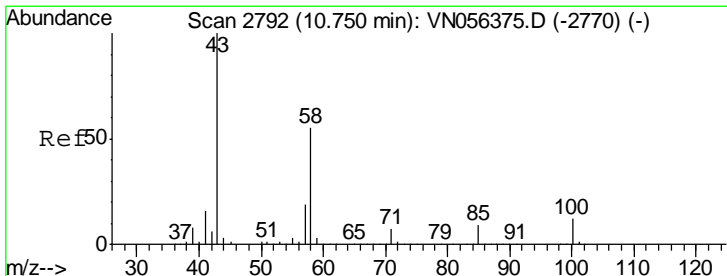
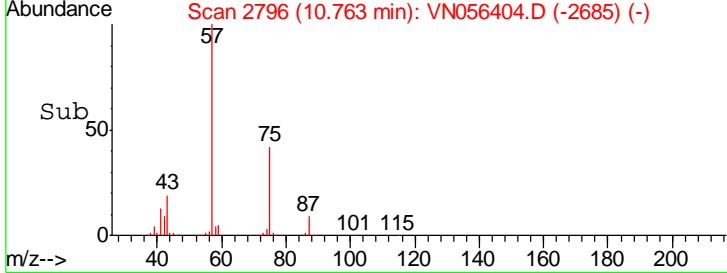
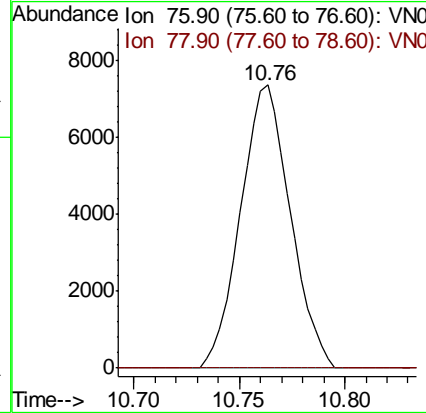
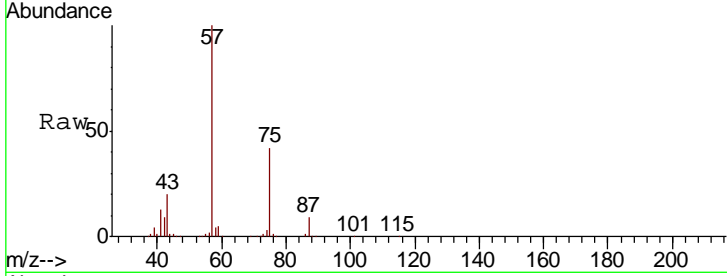




#57  
 1,3-Dichloropropane  
 Concen: 1.756 ug/l  
 RT: 10.76 min Scan# 2796  
 Delta R.T. 0.06 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

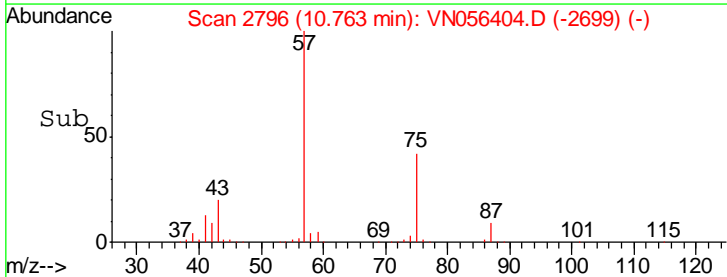
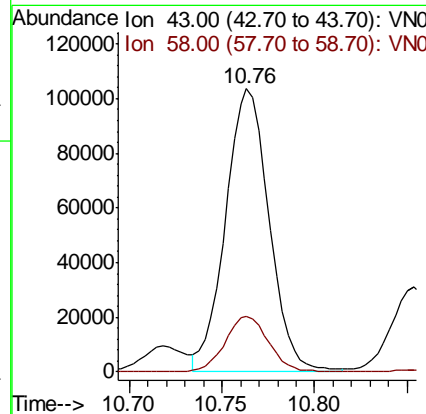
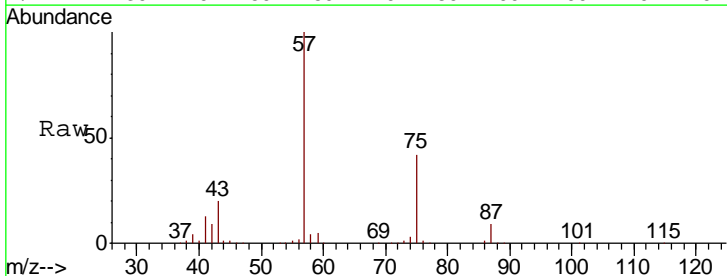
Instrument : MSVOA\_N  
 ClientSampled : OR-02-061919-A

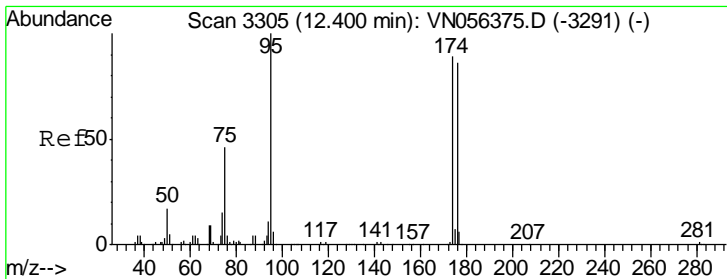
Tgt Ion: 76 Resp: 12087  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.9 38.9#



#59  
 2-Hexanone  
 Concen: 43.163 ug/l  
 RT: 10.76 min Scan# 2796  
 Delta R.T. 0.01 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion: 43 Resp: 168207  
 Ion Ratio Lower Upper  
 43 100  
 58 19.7 27.8 83.4#

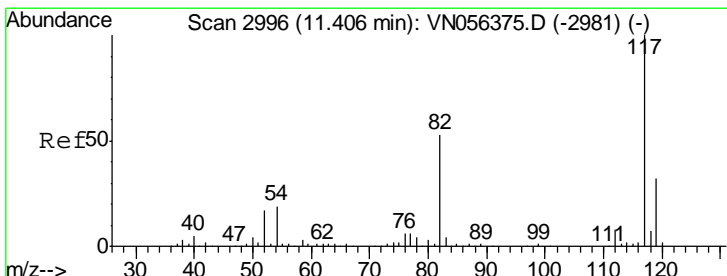
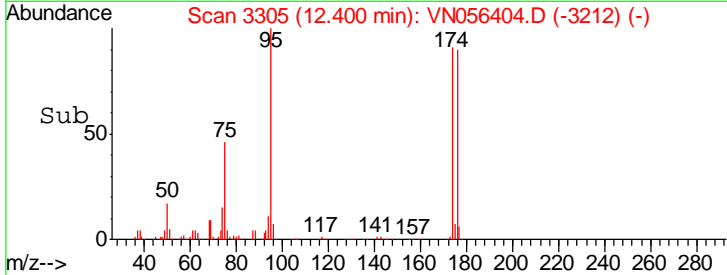
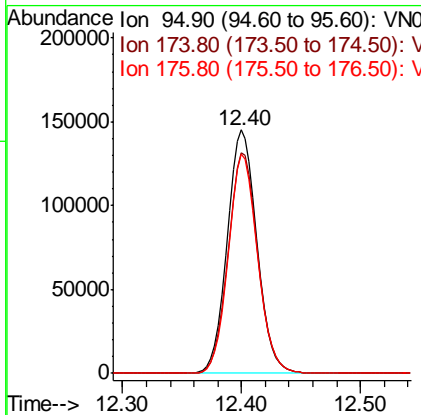
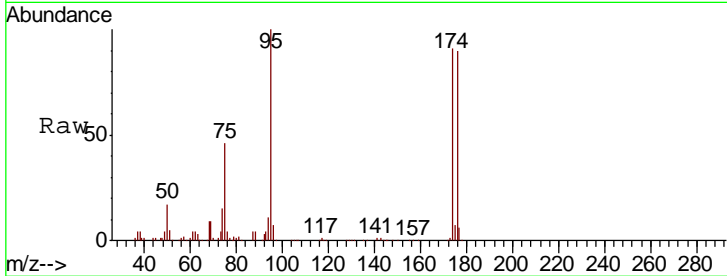




#62  
 4-Bromofluorobenzene  
 Concen: 50.142 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. -0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

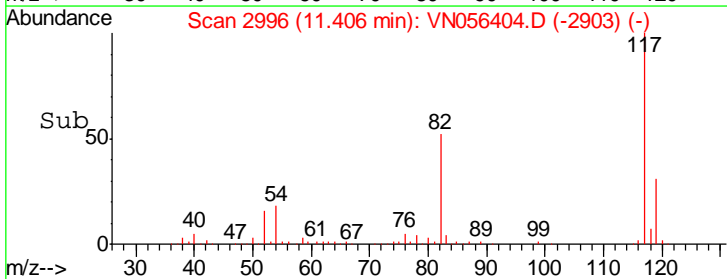
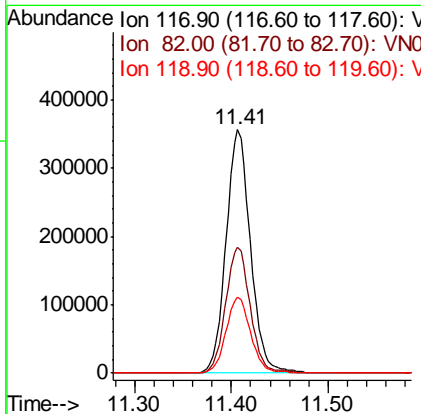
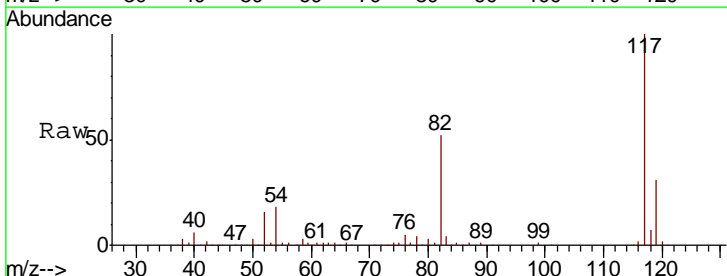
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 OR-02-061919-A

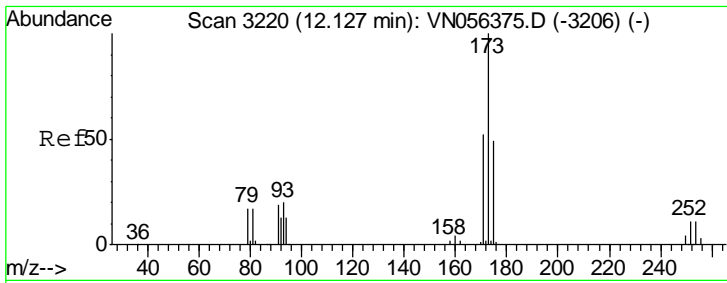
Tgt Ion	Resp	Lower	Upper
95	249906		
174	90.9	0.0	179.4
176	88.9	0.0	173.4



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.41 min Scan# 2996  
 Delta R.T. -0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
117	623604		
82	51.9	42.0	63.0
119	31.3	25.3	37.9

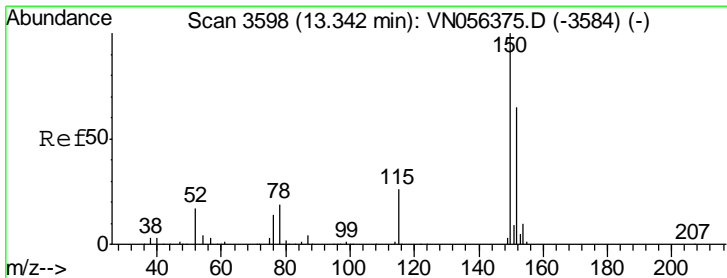
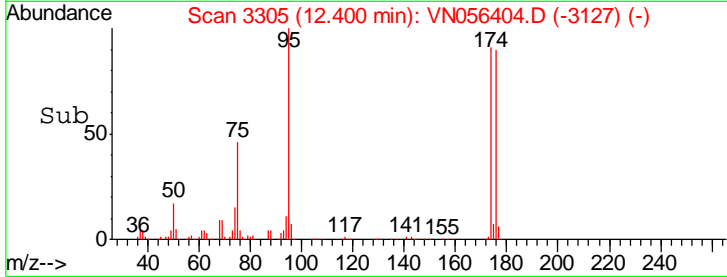
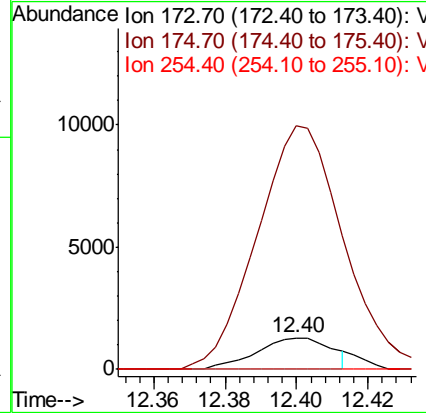
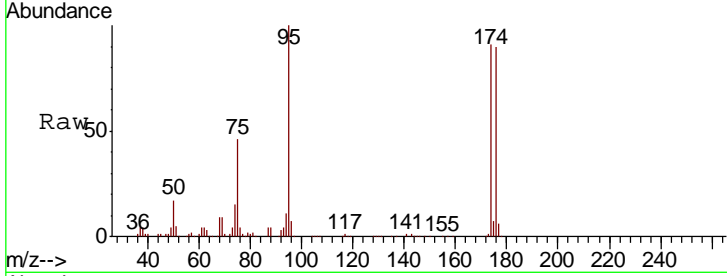




#71  
 Bromoform  
 Concen: 3.655 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. 0.27 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

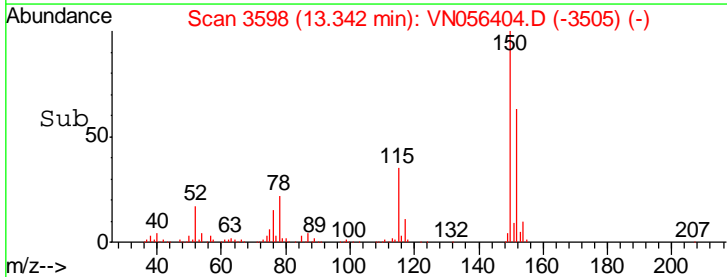
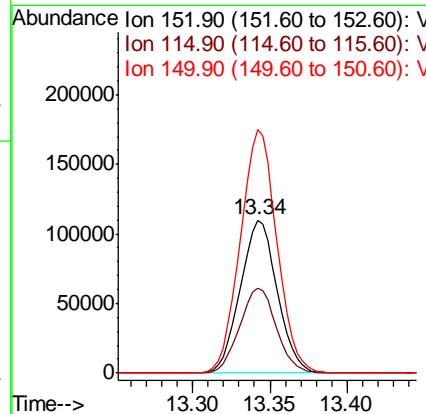
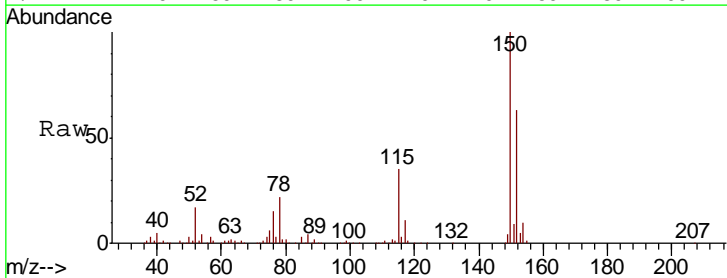
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 OR-02-061919-A

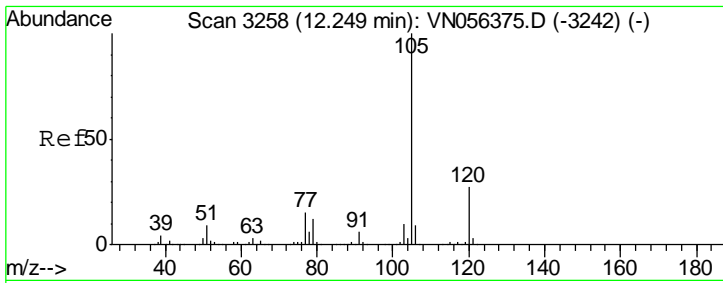
Tgt Ion	Resp	Lower	Upper
173	1867		
175	779.8	24.4	73.4#
254	0.0	0.0	0.0



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.34 min Scan# 3598  
 Delta R.T. -0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
152	182150		
115	55.2	28.1	84.4
150	157.6	0.0	348.4

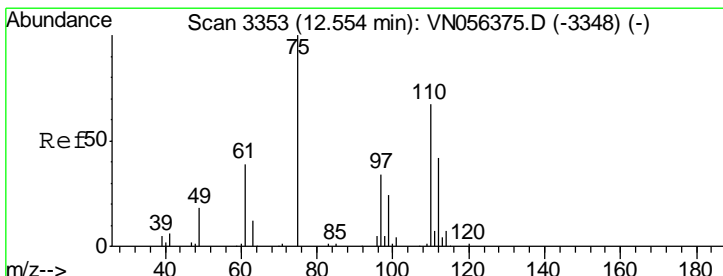
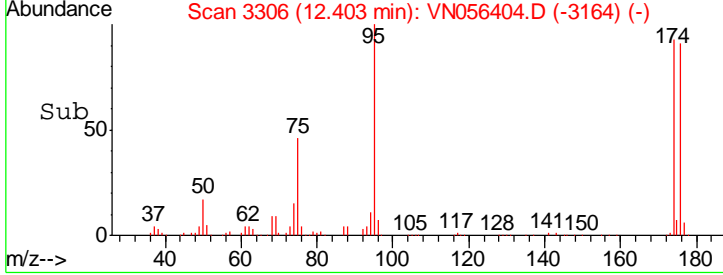
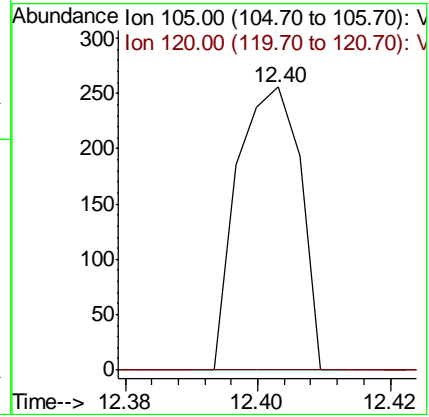
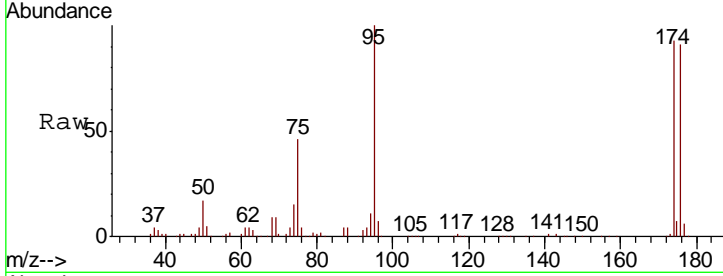




#73  
 Isopropylbenzene  
 Concen: Below Cal  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.16 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

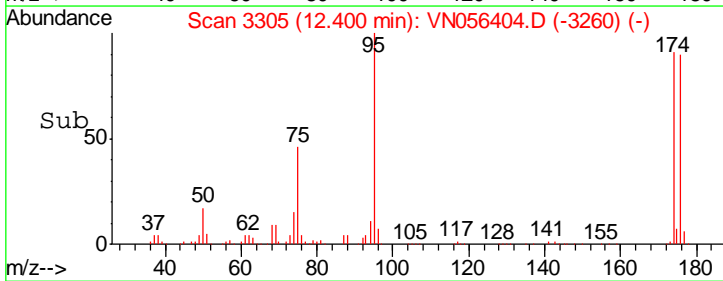
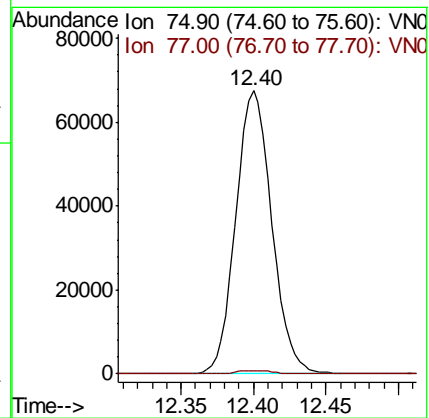
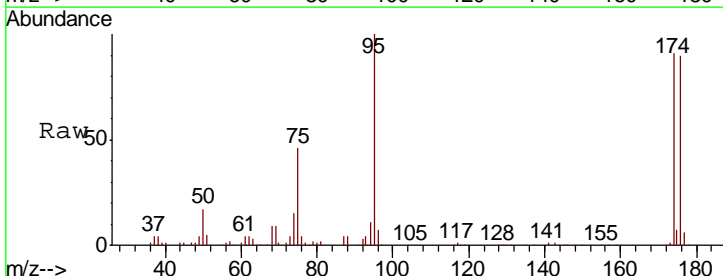
Instrument : MSVOA\_N  
 ClientSampled : OR-02-061919-A

Tgt Ion	Resp	Lower	Upper
105	100		
120	0.0	13.4	40.2#

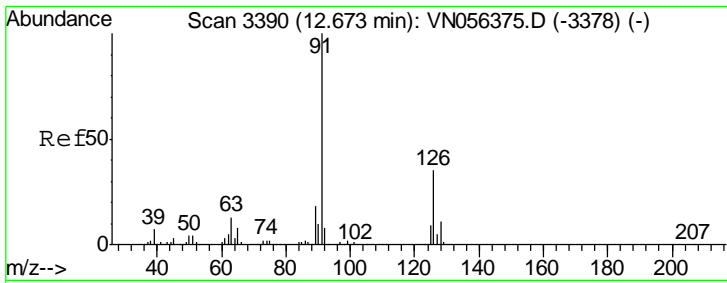


#76  
 1,2,3-Trichloropropane  
 Concen: 30.861 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. -0.15 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
75	100		
77	1.1	0.0	0.0#



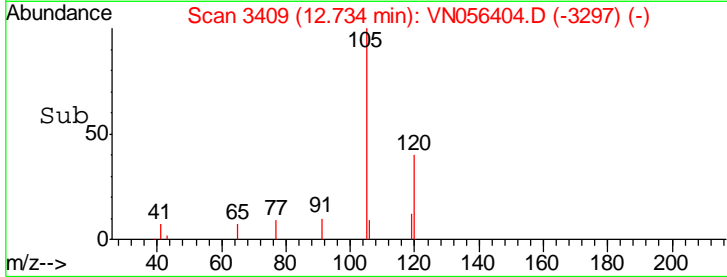
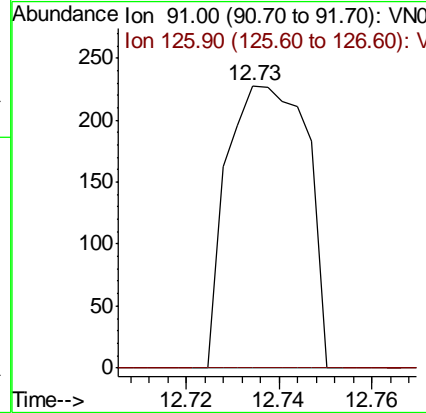
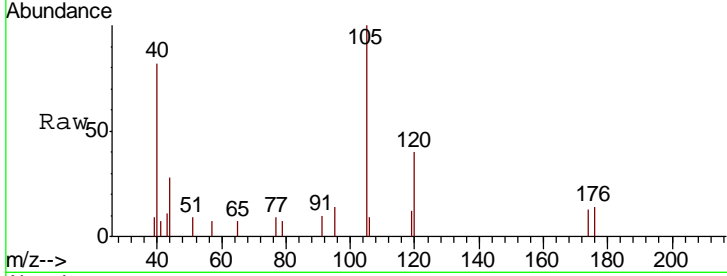




#79  
 2-Chlorotoluene  
 Concen: Below Cal  
 RT: 12.73 min Scan# 3409  
 Delta R.T. 0.06 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

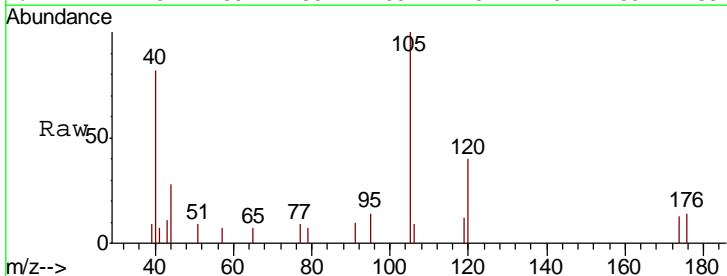
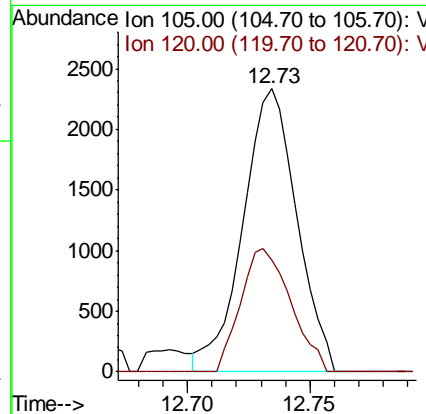
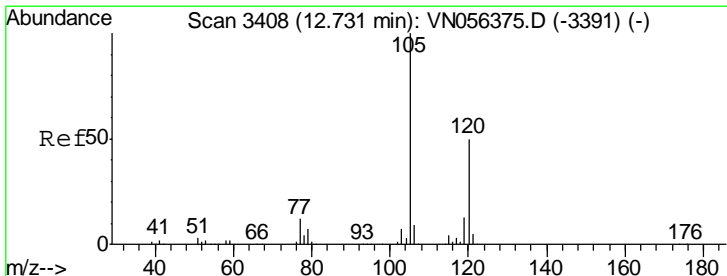
Instrument : MSVOA\_N  
 ClientSampled : OR-02-061919-A

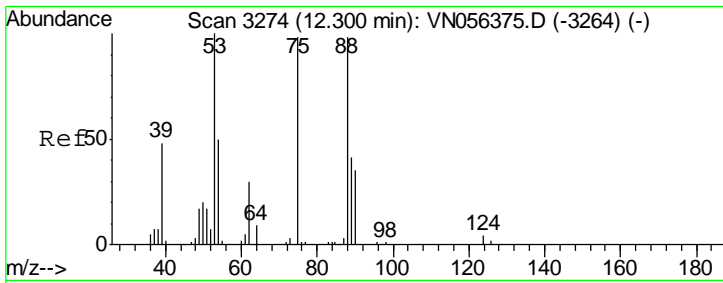
Tgt Ion	Resp	Lower	Upper
91	100		
126	0.0	17.6	52.8#



#80  
 1,3,5-Trimethylbenzene  
 Concen: Below Cal  
 RT: 12.73 min Scan# 3409  
 Delta R.T. 0.00 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
105	100		
120	40.6	24.8	74.4

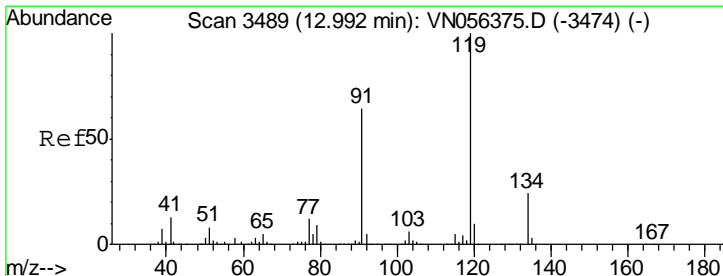
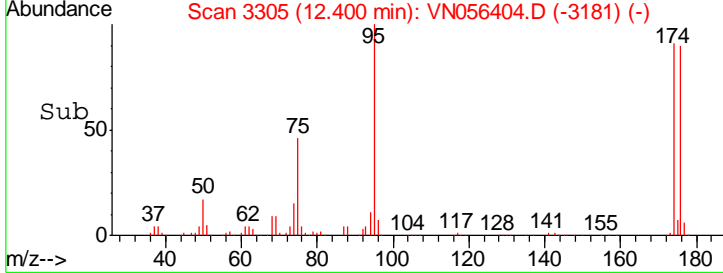
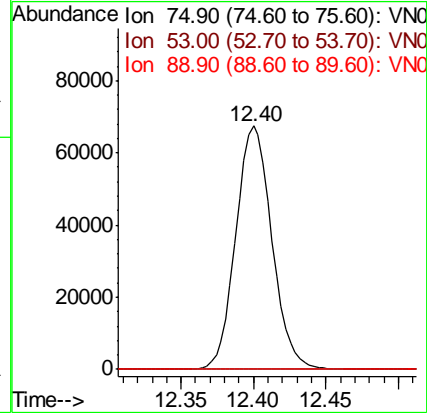
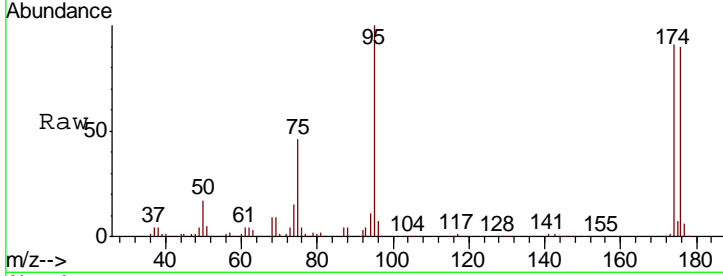




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 109.684 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. 0.10 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

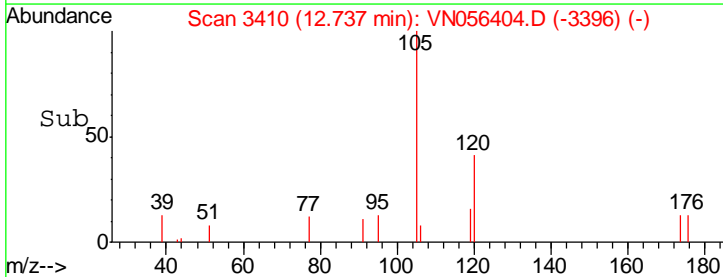
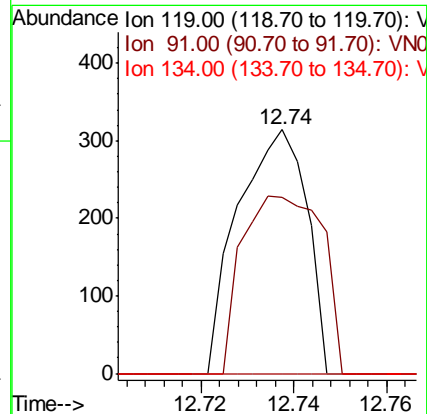
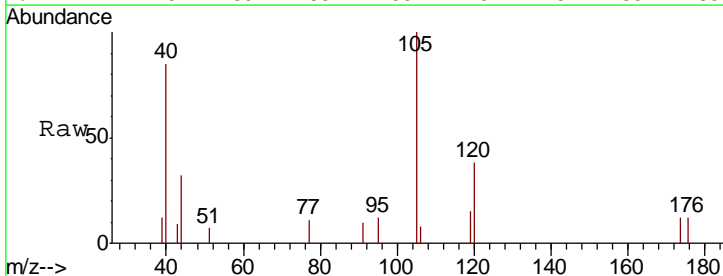
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 OR-02-061919-A

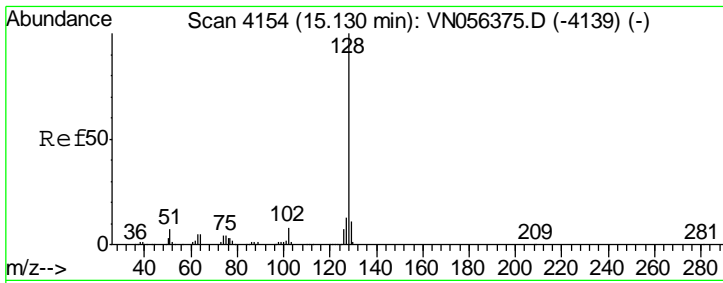
Tgt Ion	Resp	Lower	Upper
75	116559		
53	0.0	83.9	125.9#
89	0.0	35.0	52.6#



#83  
 tert-Butylbenzene  
 Concen: Below Cal  
 RT: 12.74 min Scan# 3410  
 Delta R.T. -0.25 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Tgt Ion	Resp	Lower	Upper
119	326		
119	100		
91	84.0	31.6	94.7
134	0.0	13.2	39.5#





#95  
 Naphthalene  
 Concen: 5.455 ug/l  
 RT: 15.14 min Scan# 4156  
 Delta R.T. 0.01 min  
 Lab File: VN056404.D  
 Acq: 20 Jun 2019 15:49

Instrument : MSVOA\_N  
 ClientSampled : OR-02-061919-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.6	12.8#

