

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN081418\  
 Data File : VN050605.D  
 Acq On : 14 Aug 2018 16:25  
 Operator : MD\SY  
 Sample : J4459-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_N  
**ClientSampleId :**  
 FRAC-TANK-SV30518L

Quant Time: Aug 14 16:52:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 08:07:08 2018  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	608815	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	988144	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	826574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	306414	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	414523	54.02	ug/l	0.00
Spiked Amount				50.000		
Recovery						= 108.04%
35) Dibromofluoromethane	7.59	113	386439	48.98	ug/l	0.00
Spiked Amount				50.000		
Recovery						= 97.96%
50) Toluene-d8	10.09	98	1360786	45.83	ug/l	0.00
Spiked Amount				50.000		
Recovery						= 91.66%
62) 4-Bromofluorobenzene	12.40	95	366959	37.41	ug/l	0.00
Spiked Amount				50.000		
Recovery						= 74.82%

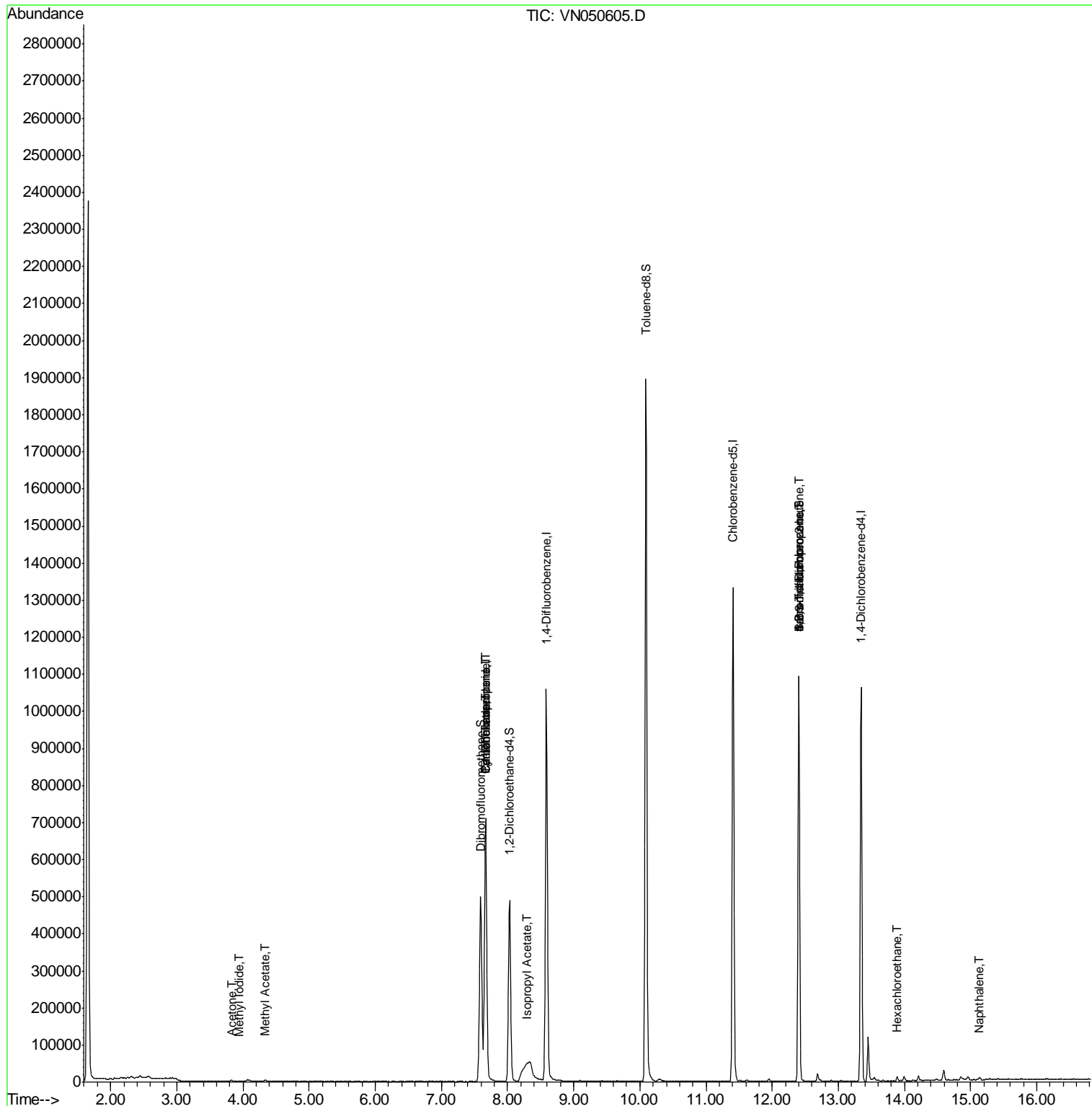
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2485	Below Cal		98
5) Bromomethane	2.56	94	3363	Below Cal		99
6) Chloroethane	2.71	64	99	Below Cal	#	43
10) Methyl Iodide	3.95	142	1350	7.175	ug/l #	48
16) Acetone	3.83	43	6303	1.850	ug/l #	87
18) Methyl Acetate	4.33	43	7003	0.310	ug/l #	86
20) Methylene Chloride	4.54	84	459	Below Cal	#	62
31) Cyclohexane	7.66	56	11867	0.679	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	42819	3.893	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54988	4.819	ug/l #	17
43) Isopropyl Acetate	8.28	43	70218	6.197	ug/l #	60
71) Bromoform	12.40	173	1558	0.305	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	333	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	175830	35.213	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	175830	127.575	ug/l #	13
90) Hexachloroethane	13.89	117	913	0.246	ug/l #	4
95) Naphthalene	15.13	128	6560	4.374	ug/l	98

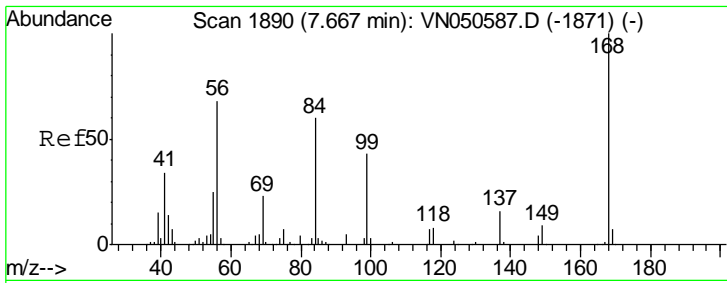
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 FRAC-TANK-SV30518L

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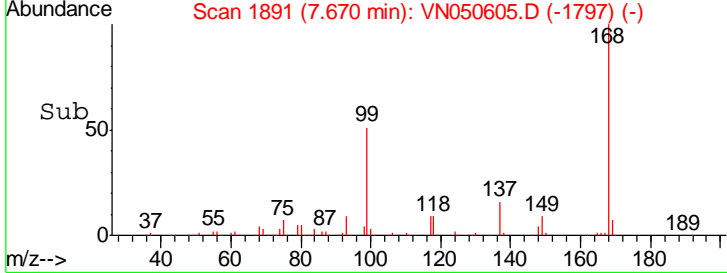
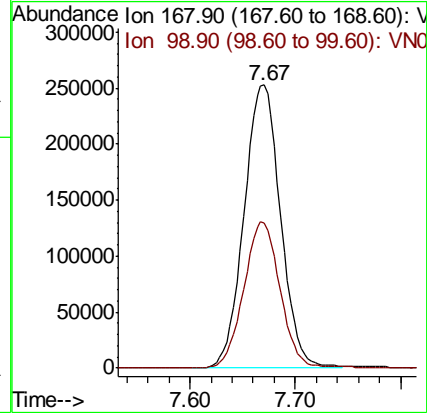
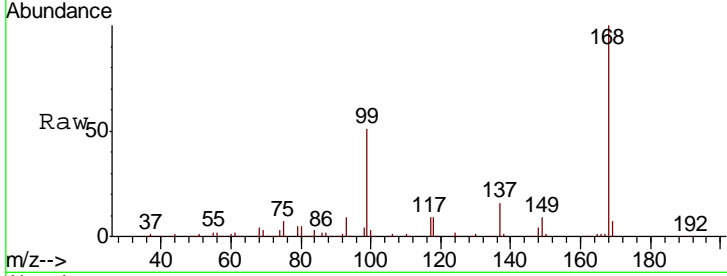




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.67 min Scan# 1891  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

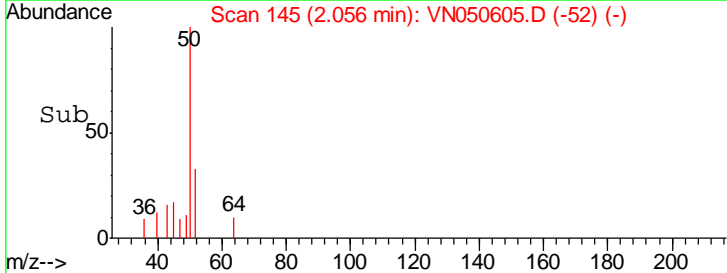
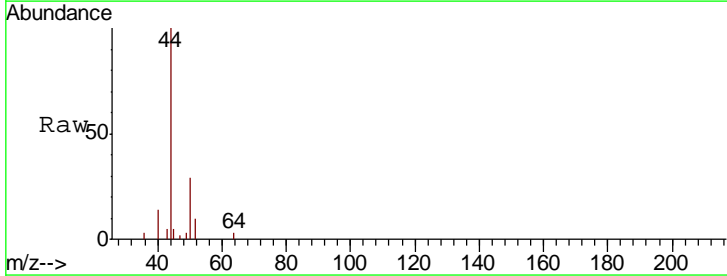
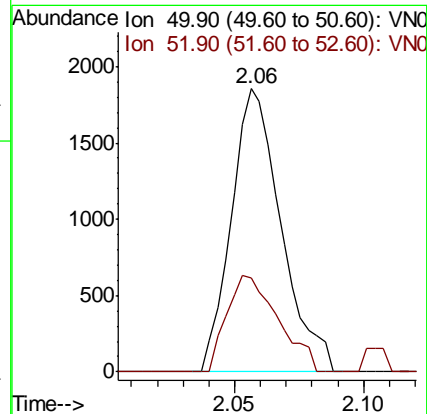
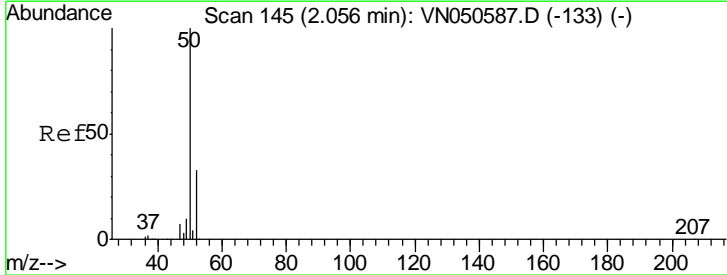
**Instrument :**  
 MSVOA\_N  
**ClientSampled :**  
 FRAC-TANK-SV30518L

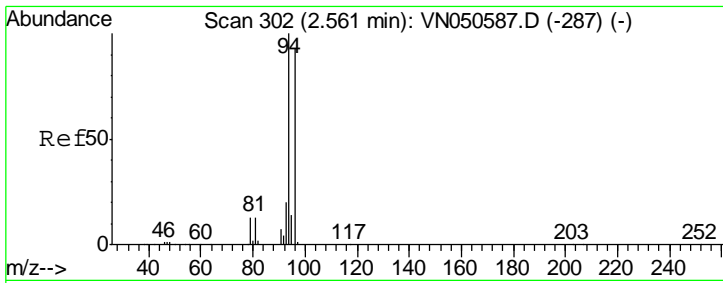
Tgt Ion: 168 Resp: 608815  
 Ion Ratio Lower Upper  
 168 100  
 99 51.1 40.8 61.2



#3  
 Chloromethane  
 Concen: Below Cal  
 RT: 2.06 min Scan# 145  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion: 50 Resp: 2485  
 Ion Ratio Lower Upper  
 50 100  
 52 33.4 26.0 39.0

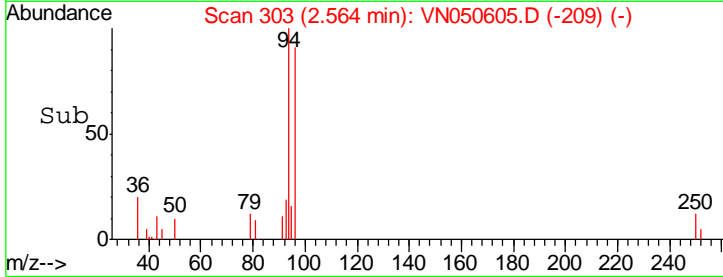
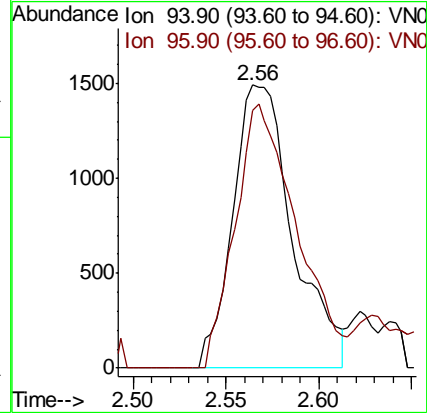
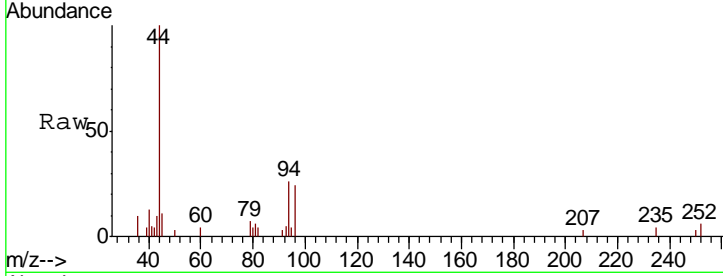




#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 2.56 min Scan# 303  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

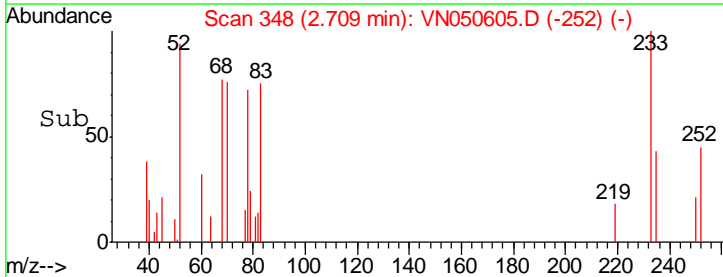
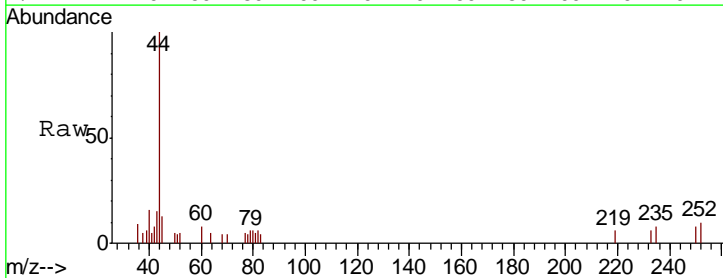
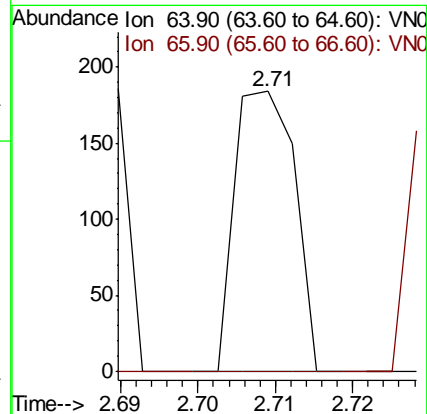
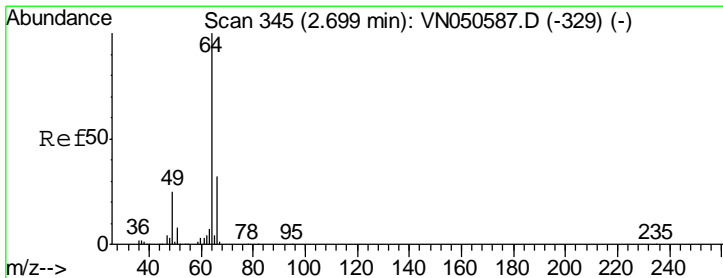
Instrument :  
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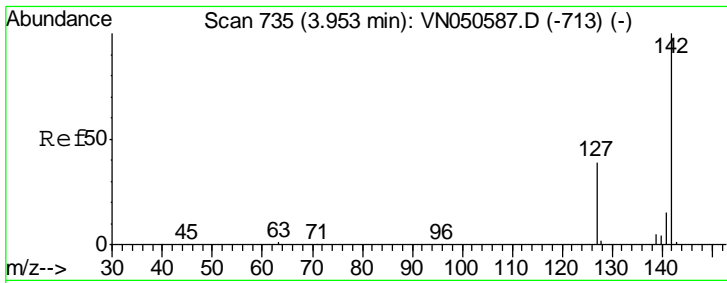
Tgt Ion: 94 Resp: 3363  
 Ion Ratio Lower Upper  
 94 100  
 96 91.1 74.0 111.0



#6  
 Chloroethane  
 Concen: Below Cal  
 RT: 2.71 min Scan# 348  
 Delta R.T. 0.01 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion: 64 Resp: 99  
 Ion Ratio Lower Upper  
 64 100  
 66 0.0 25.7 38.5#

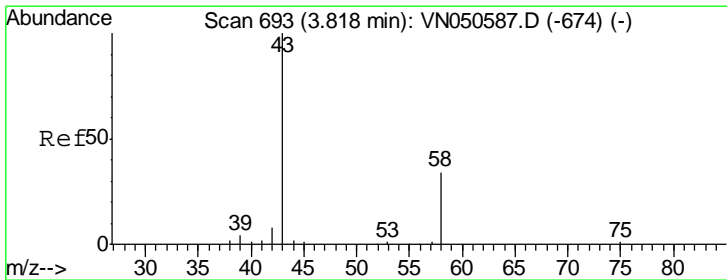
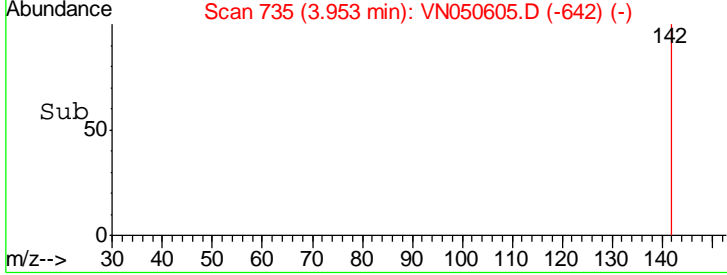
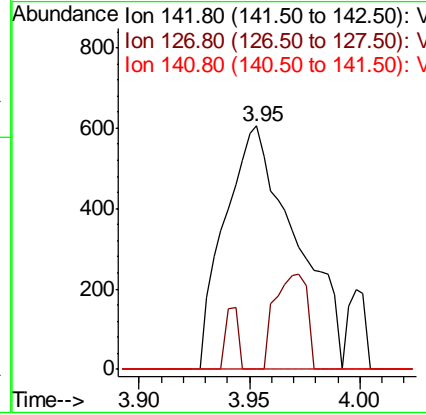
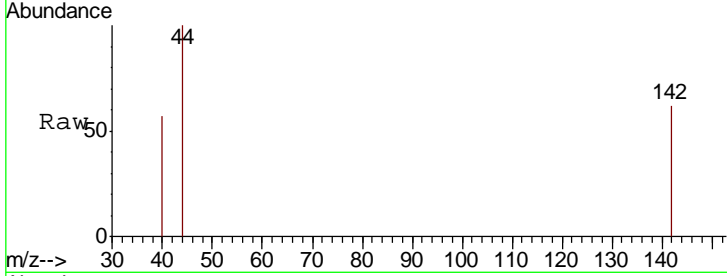




#10  
 Methyl Iodide  
 Concen: 7.175 ug/l  
 RT: 3.95 min Scan# 735  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

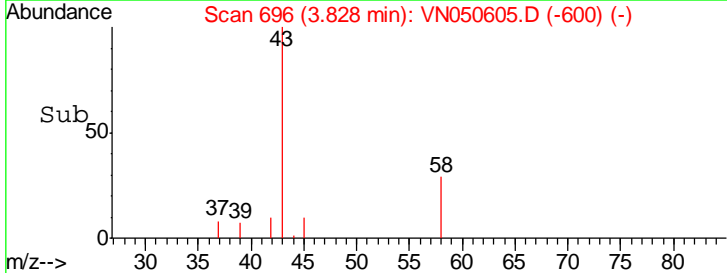
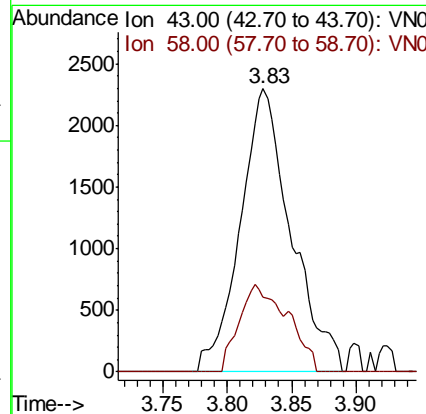
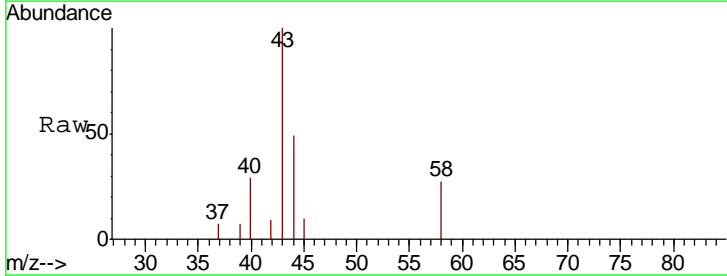
Instrument : MSVOA\_N  
 ClientSampled : FRAC-TANK-SV30518L

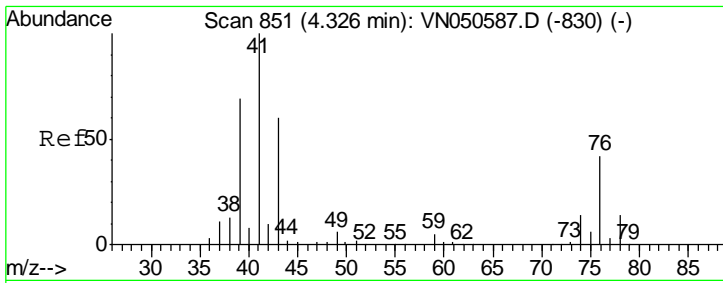
Tgt Ion	Resp	Lower	Upper
142	1350		
127	4.4	32.6	49.0#
141	0.0	11.5	17.3#



#16  
 Acetone  
 Concen: 1.850 ug/l  
 RT: 3.83 min Scan# 696  
 Delta R.T. 0.01 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
43	6303		
58	26.5	27.1	40.7#

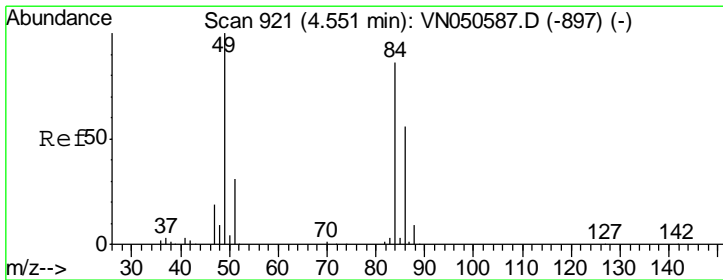
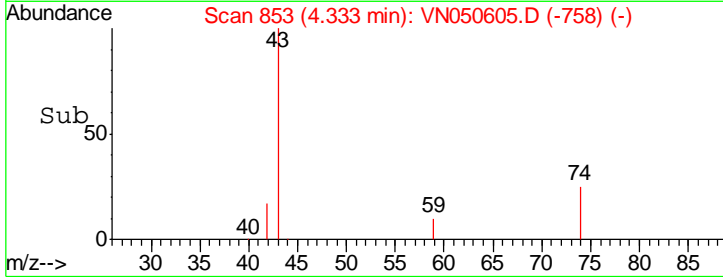
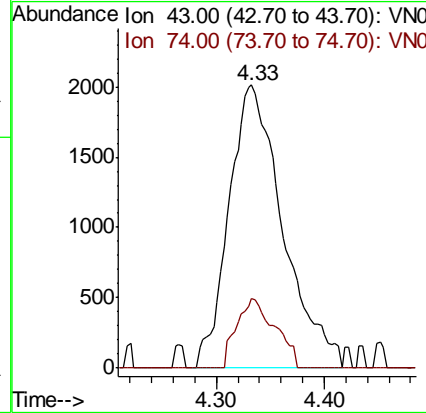
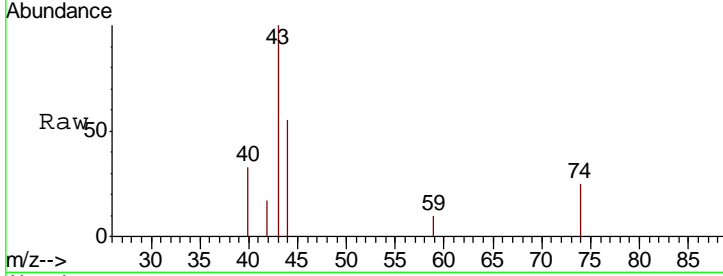




#18  
 Methyl Acetate  
 Concen: 0.310 ug/l  
 RT: 4.33 min Scan# 853  
 Delta R.T. 0.01 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

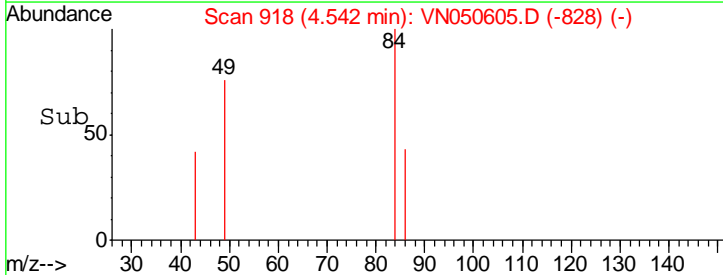
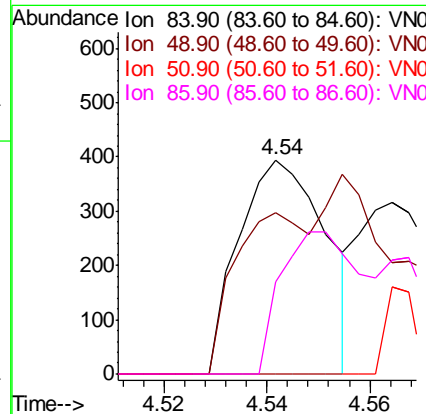
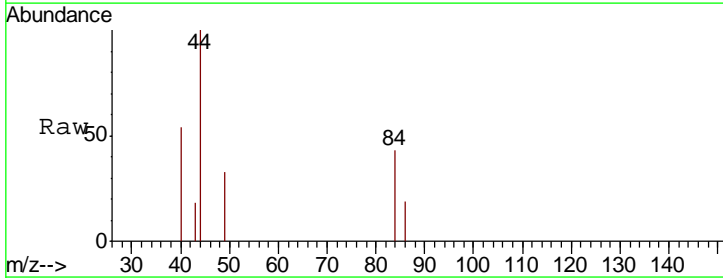
Instrument :  
 MSVOA\_N  
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 FRAC-TANK-SV30518L

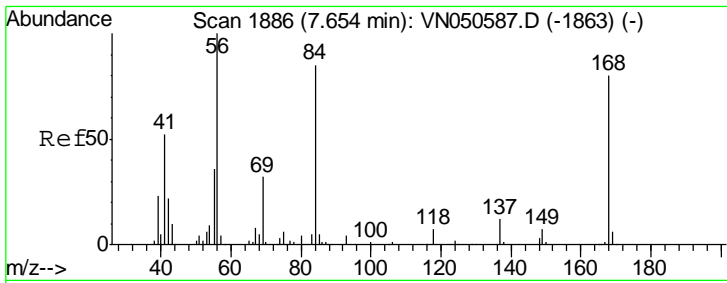
Tgt Ion	Resp	Lower	Upper
43	100		
74	17.5	19.7	29.5#



#20  
 Methylene Chloride  
 Concen: Below Cal  
 RT: 4.54 min Scan# 918  
 Delta R.T. -0.01 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
84	100		
49	75.6	92.6	138.8#
51	0.0	28.6	43.0#
86	42.9	52.2	78.2#

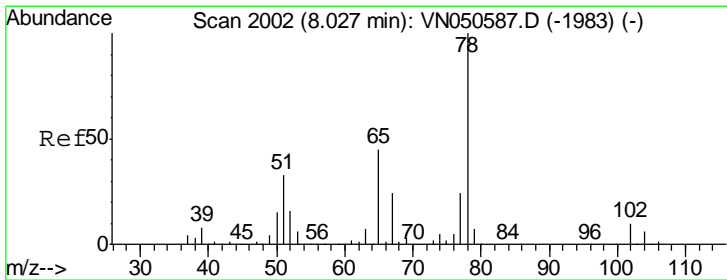
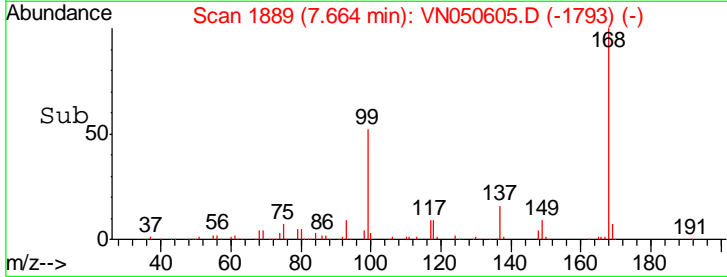
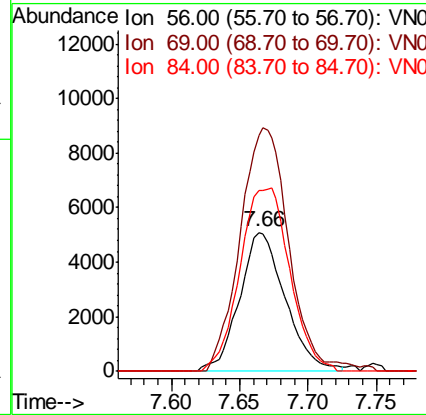
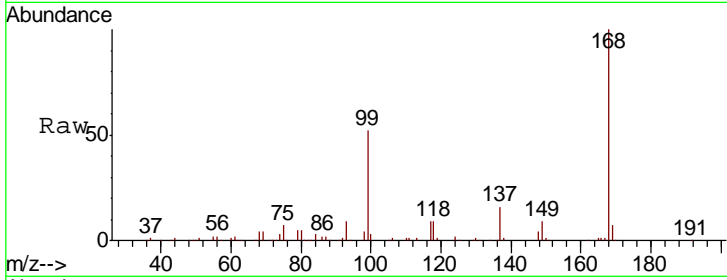




#31  
 Cyclohexane  
 Concen: 0.679 ug/l  
 RT: 7.66 min Scan# 1889  
 Delta R.T. 0.01 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

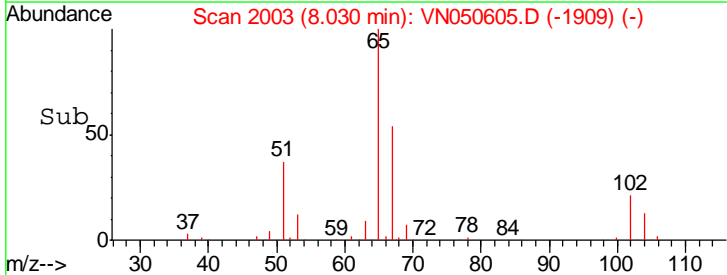
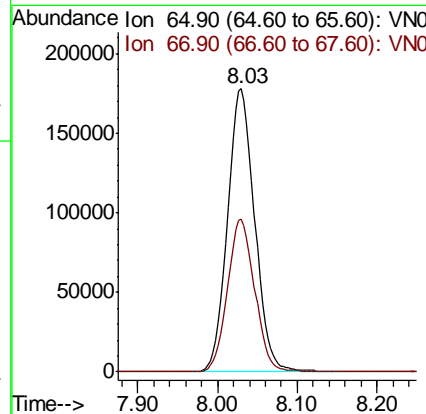
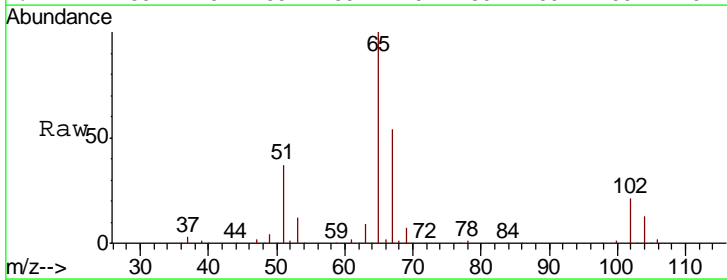
Instrument : MSVOA\_N  
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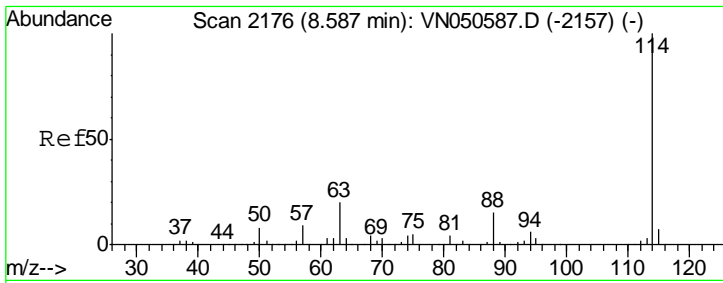
Tgt Ion	Resp	Lower	Upper
56	11867		
69	169.6	25.8	38.6#
84	130.3	67.8	101.6#



#33  
 1,2-Dichloroethane-d4  
 Concen: 54.016 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
65	414523		
67	53.7	0.0	109.8

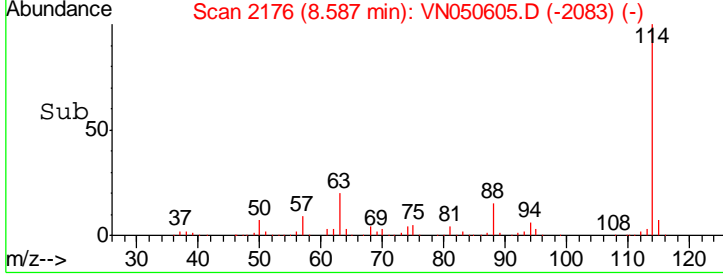
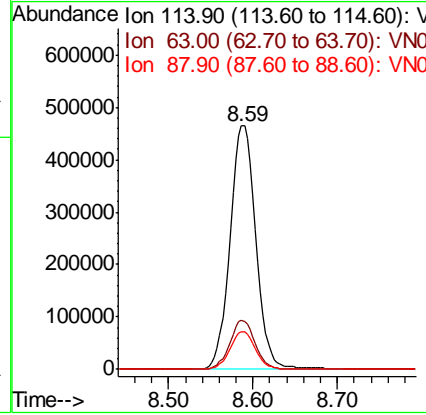
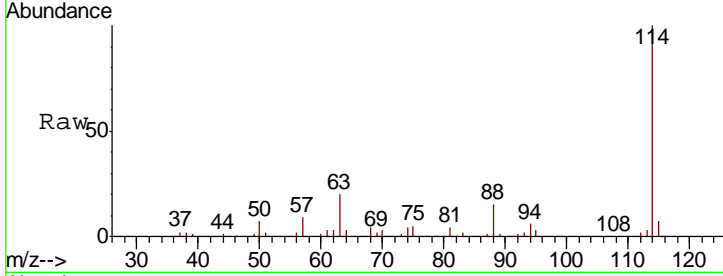




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

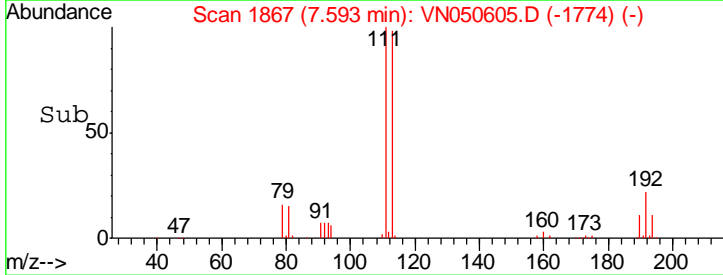
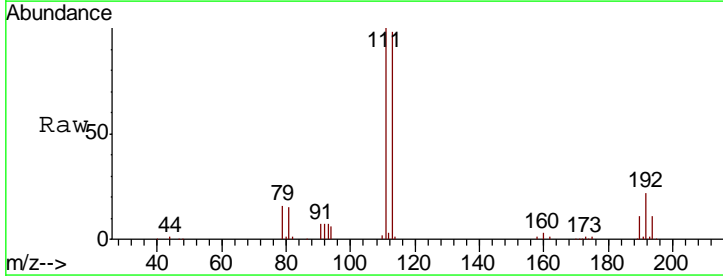
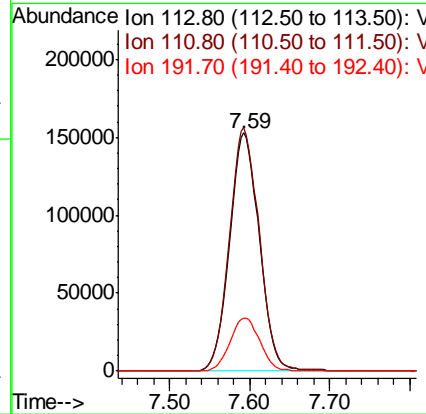
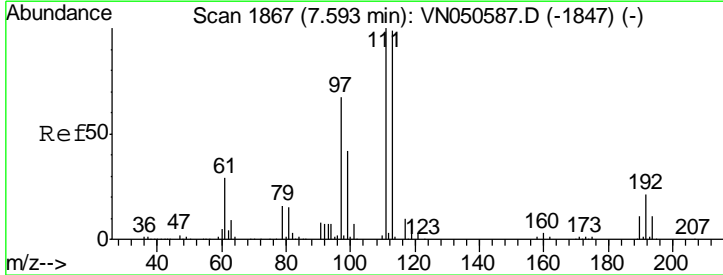
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 FRAC-TANK-SV30518L

Tgt Ion	Resp	Lower	Upper
114	988144		
63	20.3	0.0	40.0
88	15.4	0.0	30.8

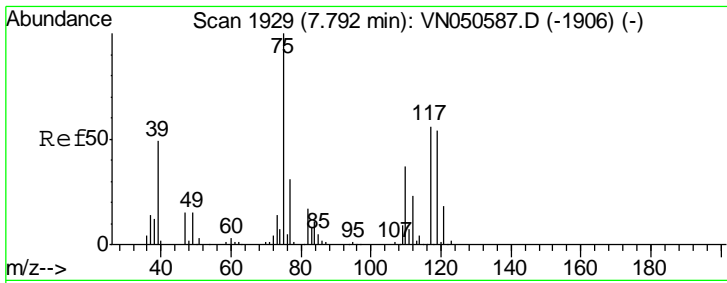


#35  
 Dibromofluoromethane  
 Concen: 48.985 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
113	386439		
111	102.4	81.0	121.6
192	22.5	17.6	26.4



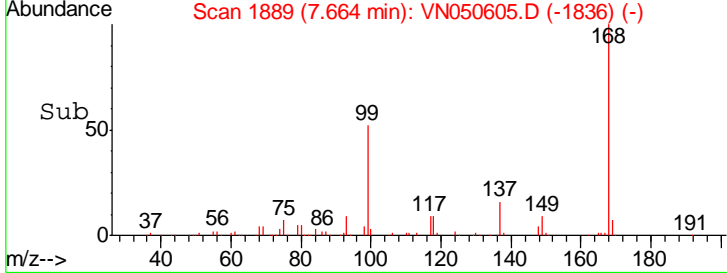
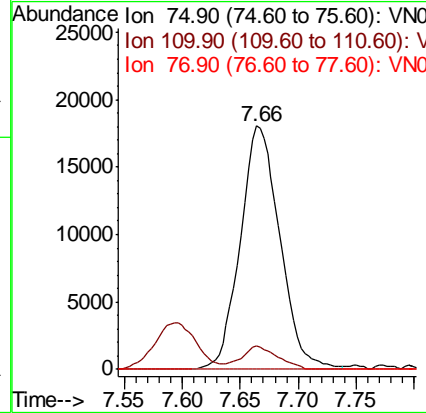
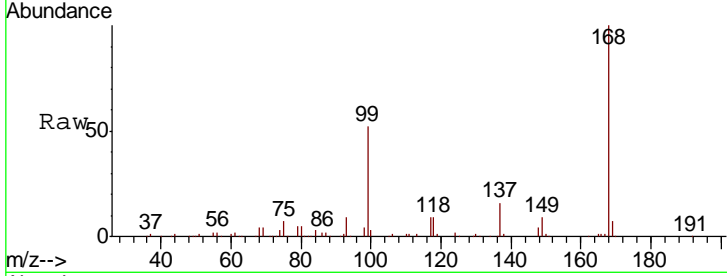




#36  
 1,1-Dichloropropene  
 Concen: 3.893 ug/l  
 RT: 7.66 min Scan# 1889  
 Delta R.T. -0.13 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

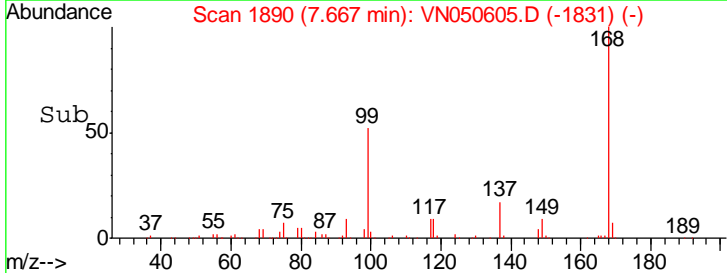
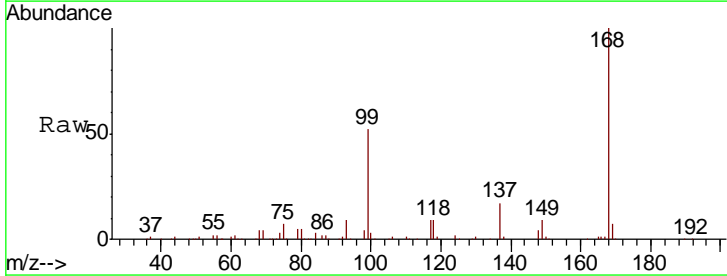
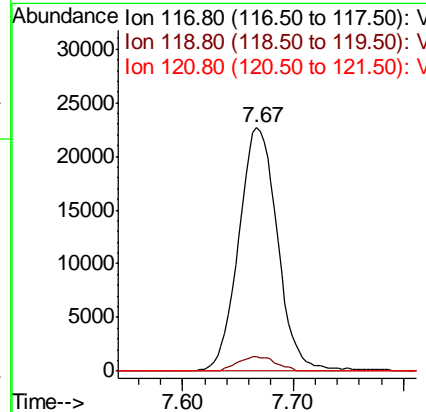
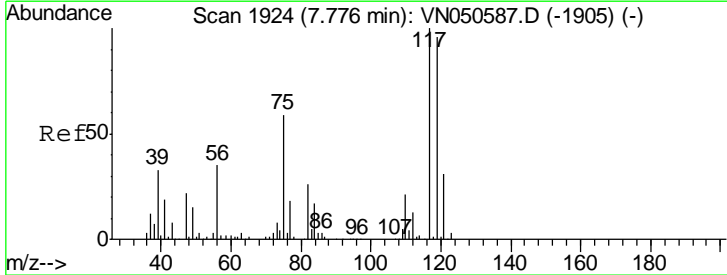
Instrument : MSVOA\_N  
 ClientSampleId : FRAC-TANK-SV30518L

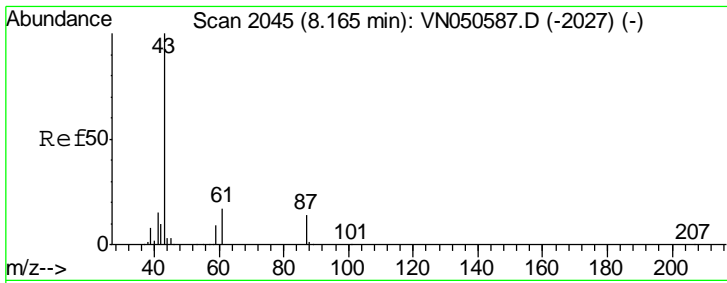
Tgt Ion	Resp	Lower	Upper
75	42819		
110	8.8	18.3	54.9#
77	0.0	25.0	37.4#



#38  
 Carbon Tetrachloride  
 Concen: 4.819 ug/l  
 RT: 7.67 min Scan# 1890  
 Delta R.T. -0.11 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
117	54988		
119	5.8	76.6	115.0#
121	0.0	25.0	37.6#

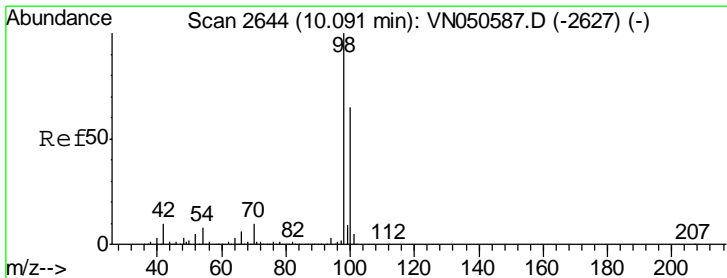
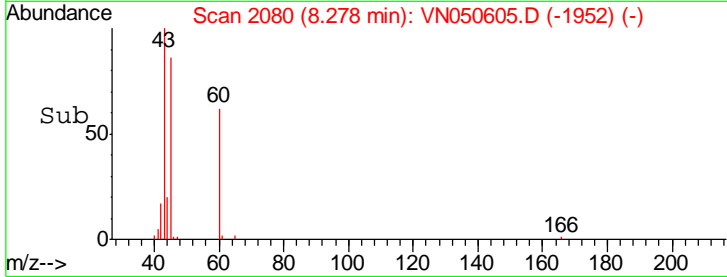
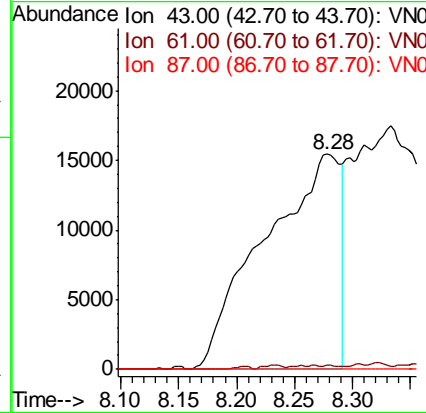
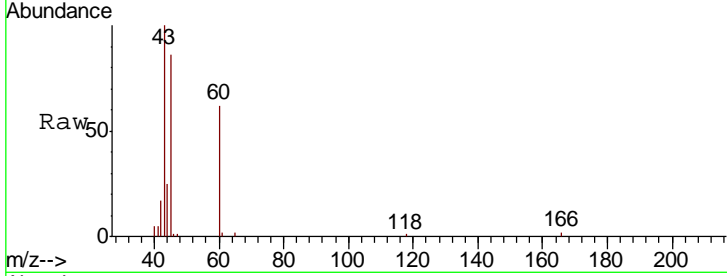




#43  
 Isopropyl Acetate  
 Concen: 6.197 ug/l  
 RT: 8.28 min Scan# 2080  
 Delta R.T. 0.11 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

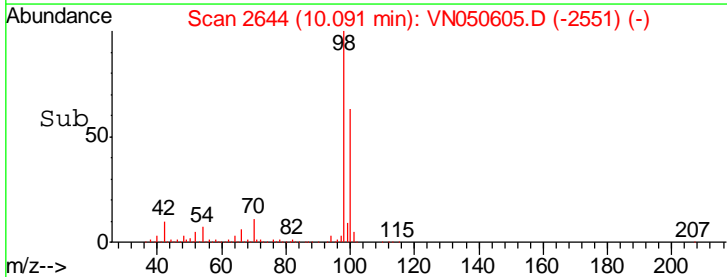
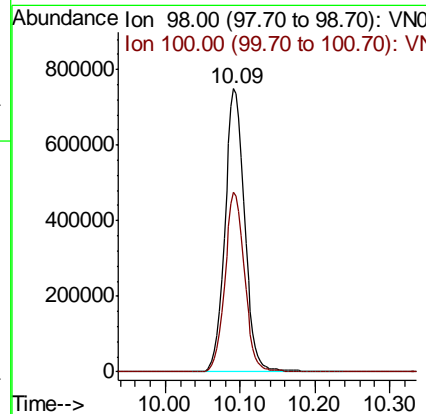
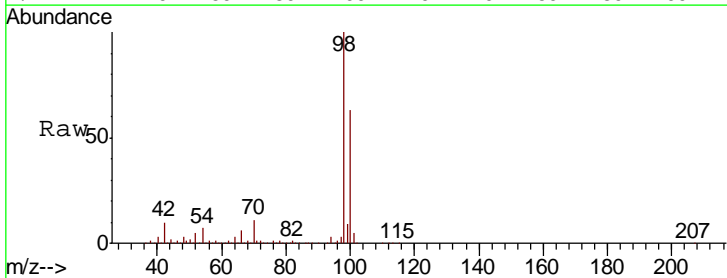
**Instrument :**  
 MSVOA\_N  
**ClientSampled :**  
 FRAC-TANK-SV30518L

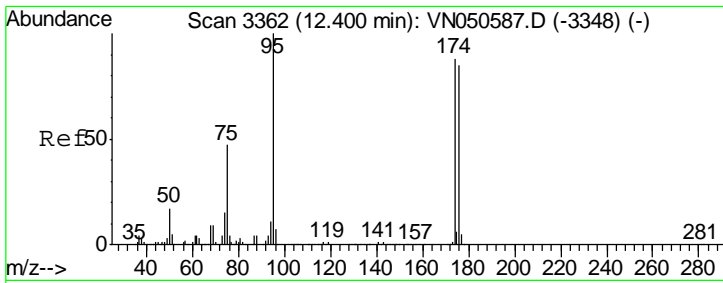
Tgt Ion	Resp	Lower	Upper
43	70218		
61	0.0	16.2	24.2#
87	0.0	10.9	16.3#



#50  
 Toluene-d8  
 Concen: 45.832 ug/l  
 RT: 10.09 min Scan# 2644  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
98	1360786		
100	63.3	51.8	77.8

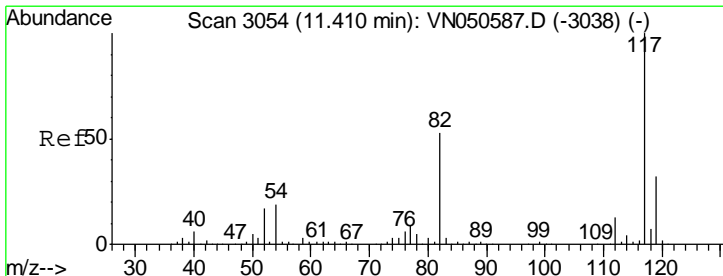
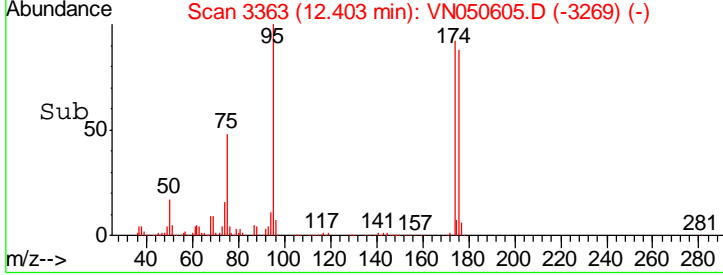
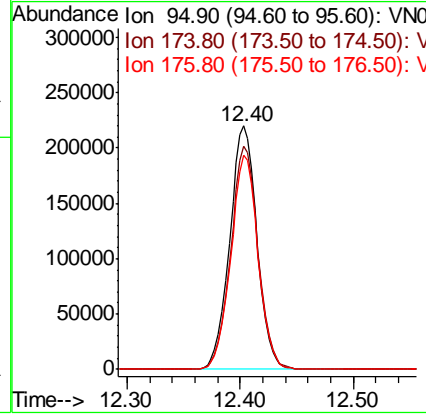
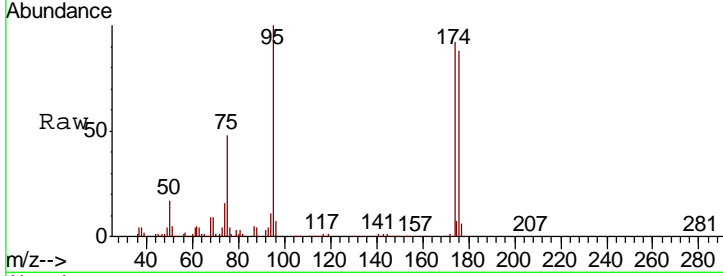




#62  
 4-Bromofluorobenzene  
 Concen: 37.412 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

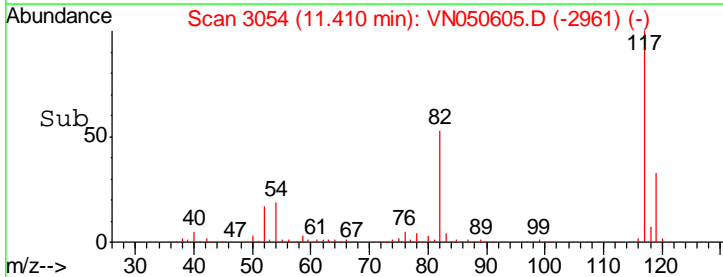
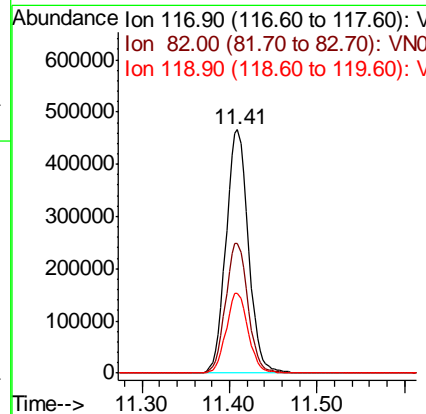
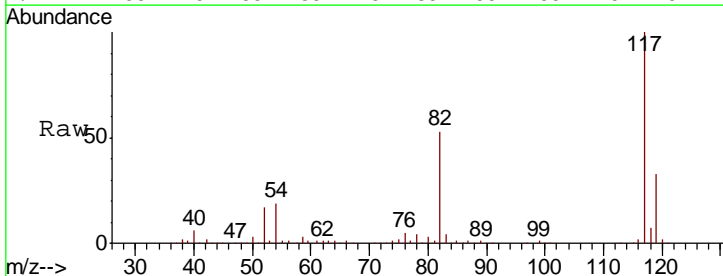
Instrument : MSVOA\_N  
 Client Sampled : FRAC-TANK-SV30518L

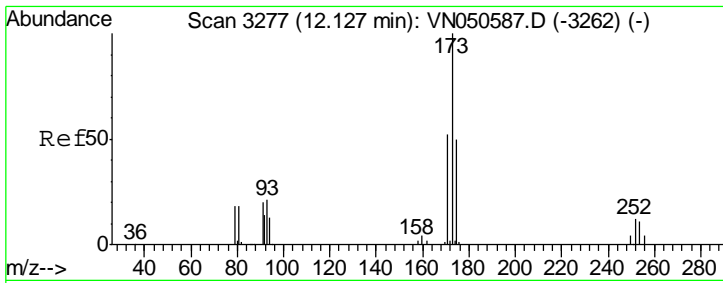
Tgt Ion	Resp	Lower	Upper
95	366959		
174	92.0	0.0	177.8
176	88.0	0.0	175.0



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.41 min Scan# 3054  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
117	826574		
82	53.3	42.4	63.6
119	32.9	25.8	38.8



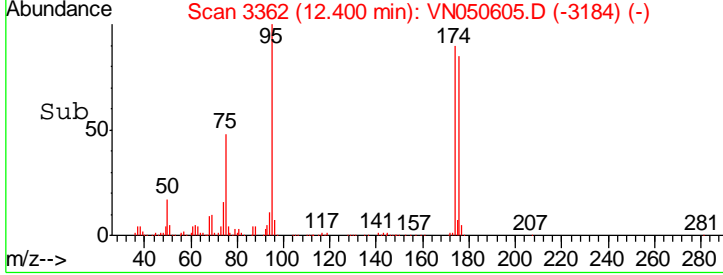
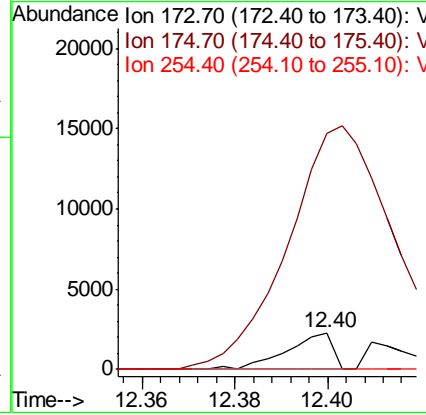
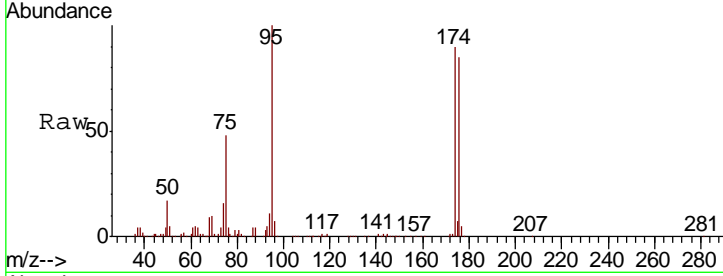


#71  
 Bromoform  
 Concen: 0.305 ug/l  
 RT: 12.40 min Scan# 3362  
 Delta R.T. 0.27 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

**Instrument :**  
 MSVOA\_N  
**ClientSampled :**  
 FRAC-TANK-SV30518L

Tgt Ion: 173 Resp: 1558

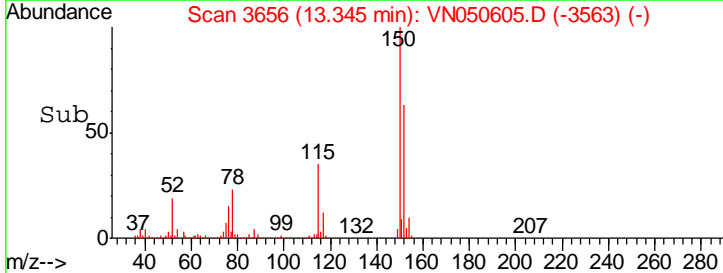
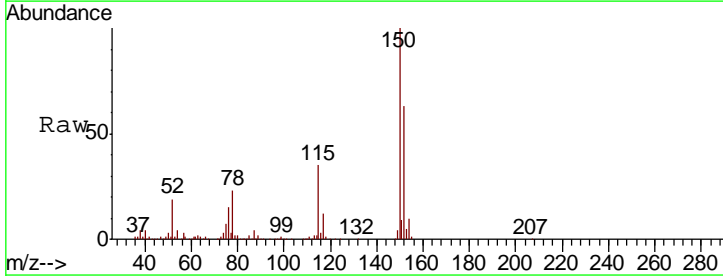
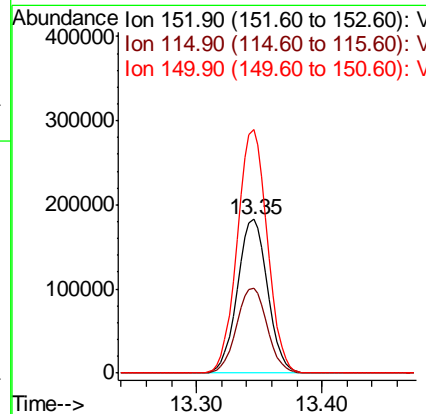
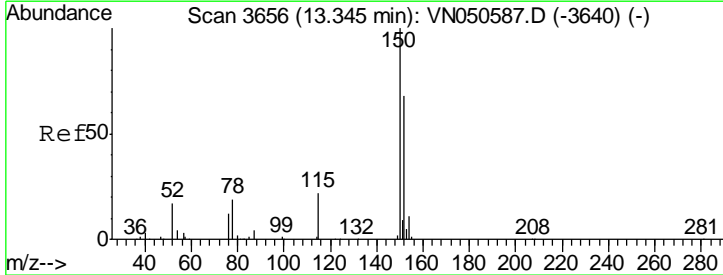
Ion	Ratio	Lower	Upper
173	100		
175	1305.2	24.4	73.2#
254	0.0	0.0	0.0

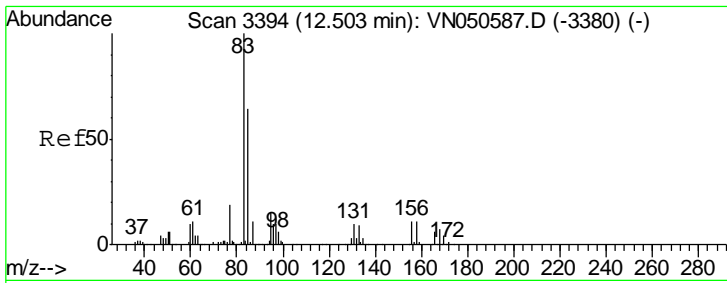


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.35 min Scan# 3656  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion: 152 Resp: 306414

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.1	84.2
150	157.1	0.0	347.8

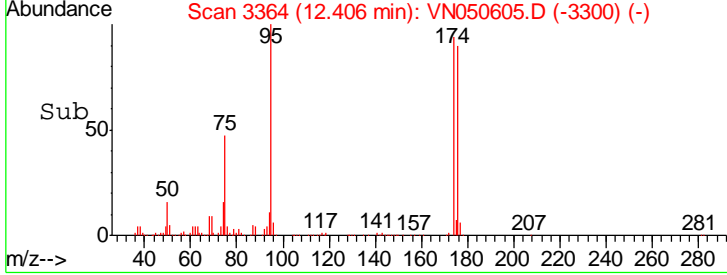
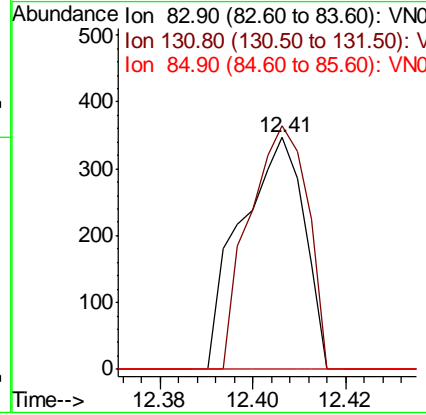
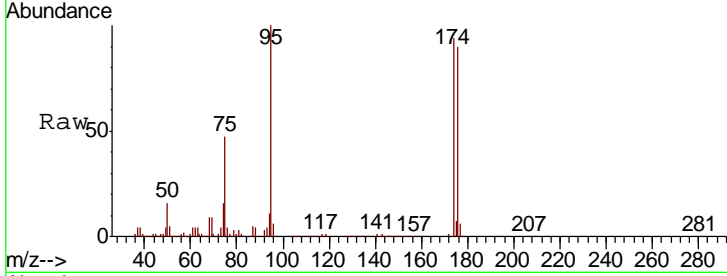




#75  
 1,1,2,2-Tetrachloroethane  
 Concen: Below Cal  
 RT: 12.41 min Scan# 3364  
 Delta R.T. -0.10 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

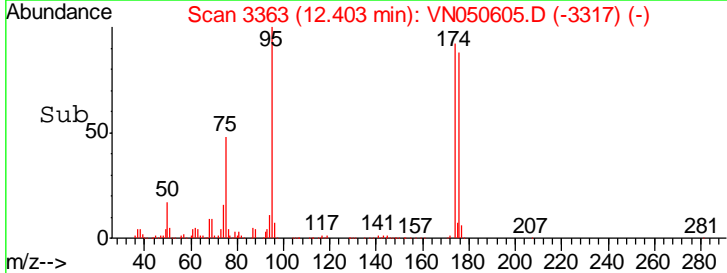
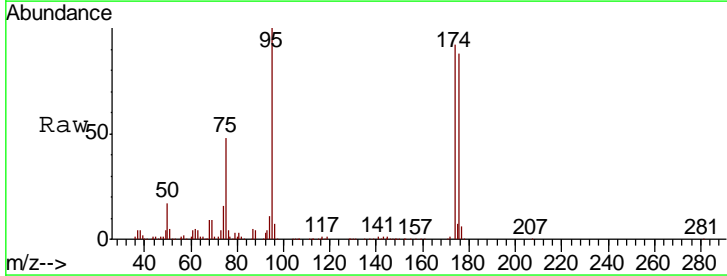
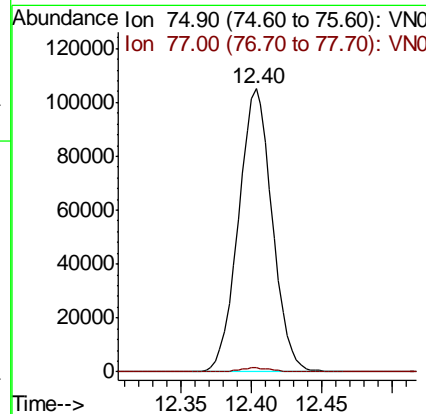
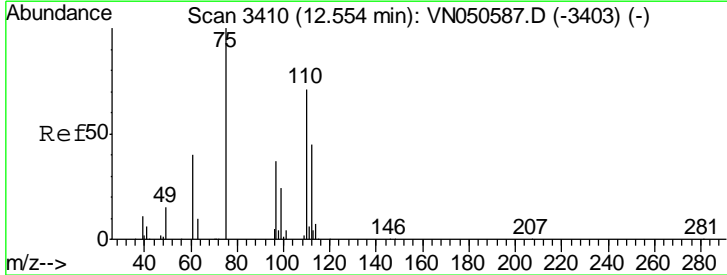
Instrument : MSVOA\_N  
 ClientSampleId : FRAC-TANK-SV30518L

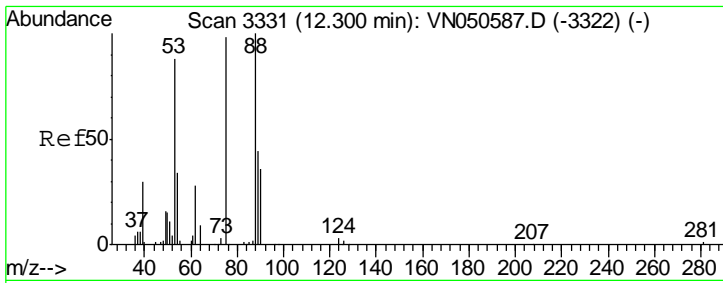
Tgt Ion	Resp	Lower	Upper
83	100		
131	96.1	5.3	15.9#
85	0.0	32.1	96.5#



#76  
 1,2,3-Trichloropropane  
 Concen: 35.213 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. -0.15 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
75	100		
77	1.4	0.0	0.0#

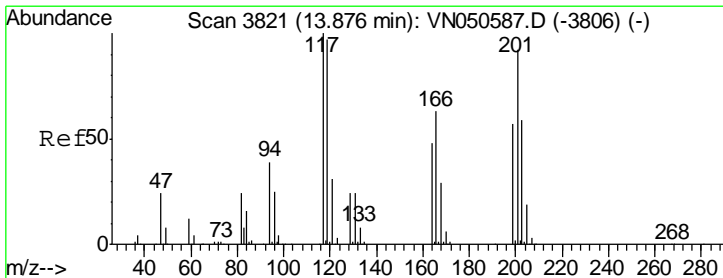
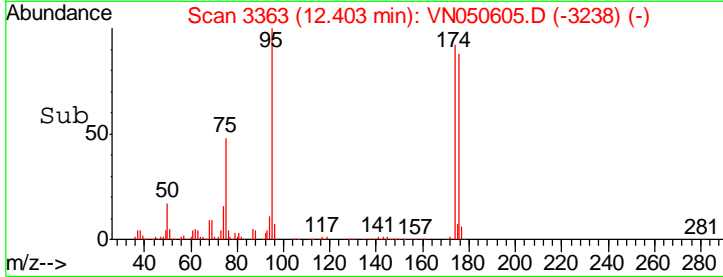
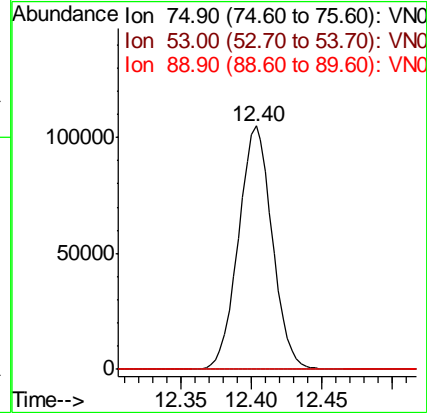
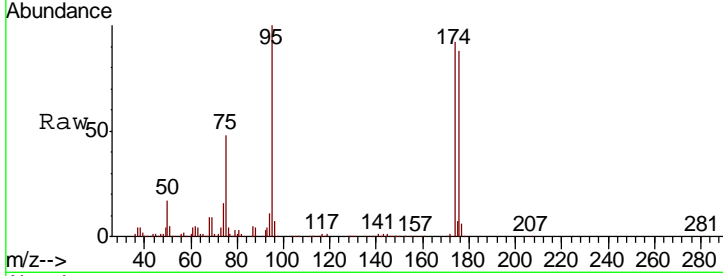




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 127.575 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. 0.10 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

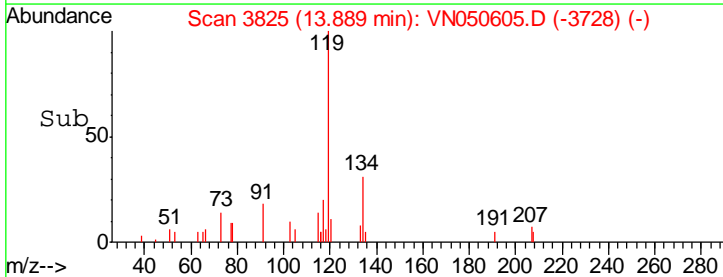
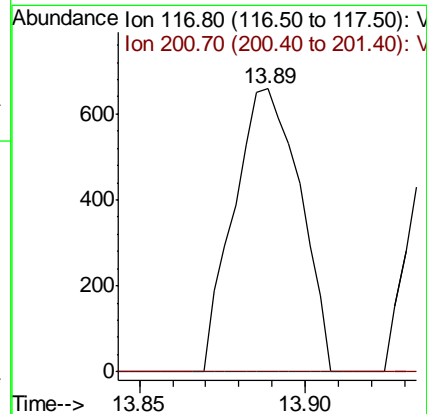
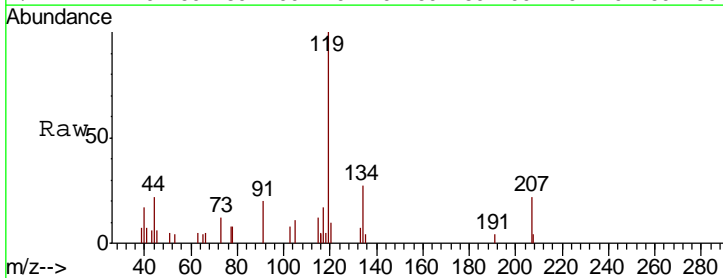
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 FRAC-TANK-SV30518L

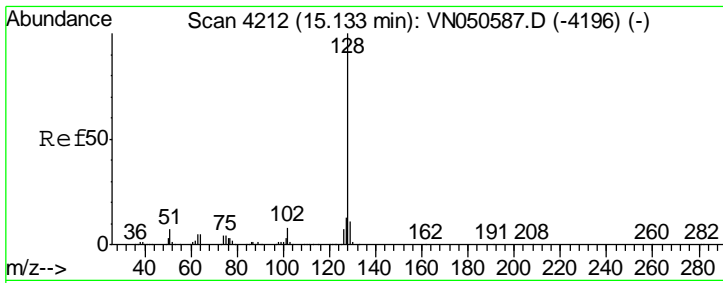
Tgt Ion	Resp	Lower	Upper
75	100		
53	0.3	72.2	108.2#
89	0.0	36.3	54.5#



#90  
 Hexachloroethane  
 Concen: 0.246 ug/l  
 RT: 13.89 min Scan# 3825  
 Delta R.T. 0.01 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Tgt Ion	Resp	Lower	Upper
117	100		
201	0.0	45.5	136.5#





#95  
 Naphthalene  
 Concen: 4.374 ug/l  
 RT: 15.13 min Scan# 4212  
 Delta R.T. 0.00 min  
 Lab File: VN050605.D  
 Acq: 14 Aug 2018 16:25

Instrument : MSVOA\_N  
 ClientSampleId : FRAC-TANK-SV30518L

Tgt Ion	Resp	Lower	Upper
128	6560		
127	12.1	10.3	15.5
129	9.8	8.5	12.7

