

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050406.D
 Acq On : 7 Aug 2018 1:23
 Operator : MD\SY
 Sample : J4316-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OW-2-4

Quant Time: Aug 07 07:13:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	645477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1031912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	865649	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	334531	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	453690	52.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.22%	
35) Dibromofluoromethane	7.59	113	400831	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
50) Toluene-d8	10.09	98	1423574	45.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.46%	
62) 4-Bromofluorobenzene	12.40	95	389965	36.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.50%	

Target Compounds

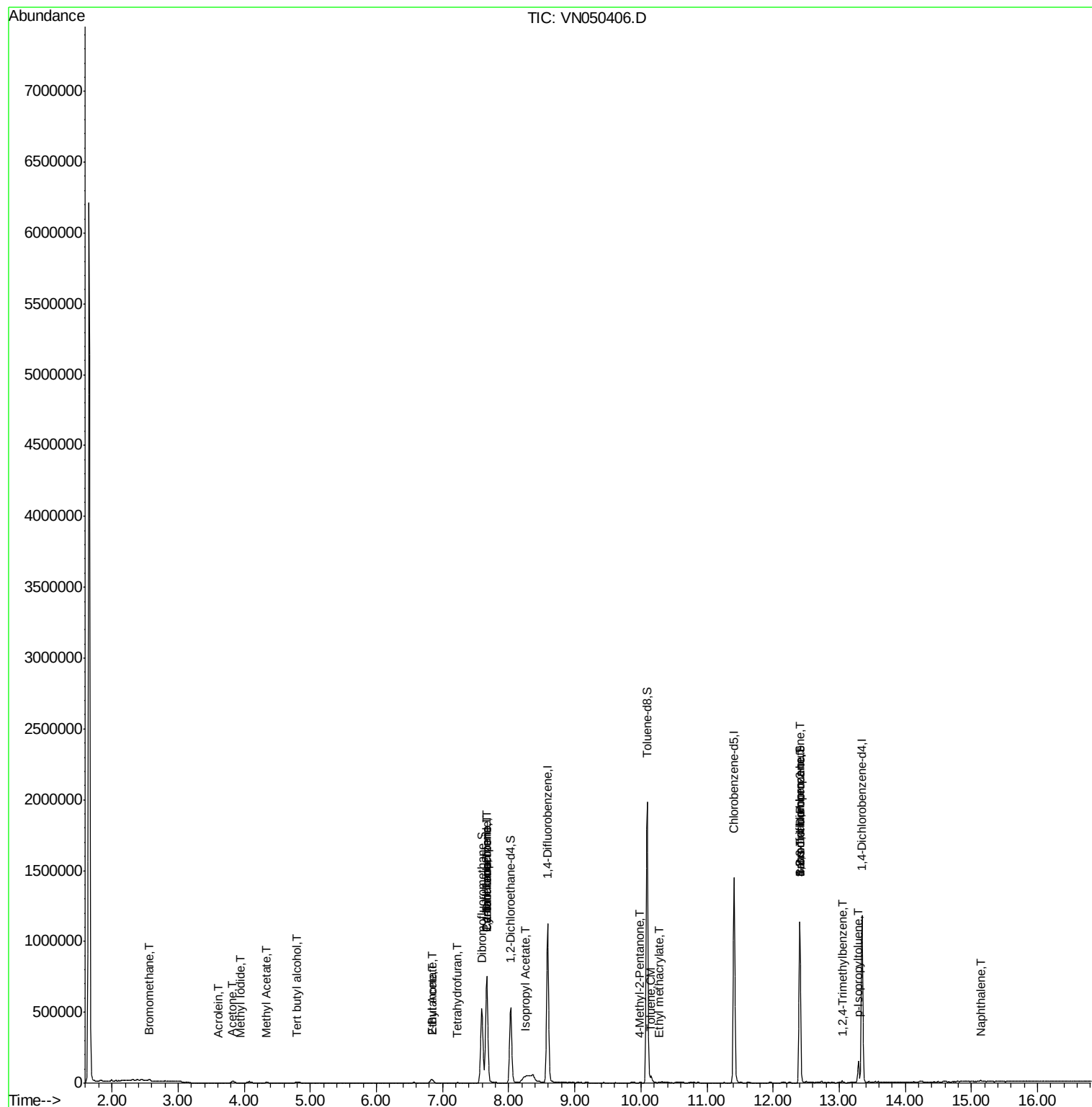
						Qvalue
3) Chloromethane	2.06	50	4059	Below Cal		91
5) Bromomethane	2.56	94	5514	1.39 ug/l		89
10) Methyl Iodide	3.95	142	1535	0.47 ug/l #		76
11) Tert butyl alcohol	4.79	59	6221	8.98 ug/l #		84
13) Acrolein	3.61	56	223	15.26 ug/l #		15
16) Acetone	3.82	43	24940	9.35 ug/l		99
18) Methyl Acetate	4.34	43	6157	0.73 ug/l #		76
20) Methylene Chloride	4.54	84	382	Below Cal #		56
25) 2-Butanone	6.85	43	5501	1.29 ug/l		96
29) Tetrahydrofuran	7.21	42	942	0.41 ug/l #		58
31) Cyclohexane	7.67	56	12418	0.38 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	45119	3.98 ug/l #		49
37) Ethyl Acetate	6.85	43	5501	0.67 ug/l #		67
38) Carbon Tetrachloride	7.67	117	59957	5.07 ug/l #		16
43) Isopropyl Acetate	8.25	43	46984	3.33 ug/l #		61
51) 4-Methyl-2-Pentanone	9.99	43	2619	0.26 ug/l #		85
52) Toluene	10.16	92	14128	0.67 ug/l		97
56) Ethyl methacrylate	10.27	69	62	1.72 ug/l #		5
71) Bromoform	12.40	173	3421	0.59 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	187347	30.94 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	187347	108.71 ug/l #		13
84) 1,2,4-Trimethylbenzene	13.04	105	5850	0.28 ug/l		99
86) p-Isopropyltoluene	13.29	119	82340	4.05 ug/l		98
94) Hexachlorobutadiene	15.01	225	30	Below Cal #		18
95) Naphthalene	15.14	128	8588	4.11 ug/l #		94

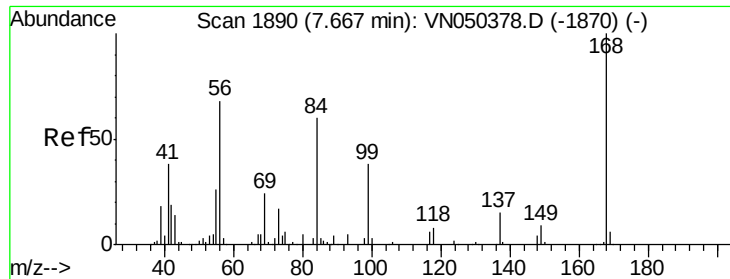
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080618\
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Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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Quant Time: Aug 07 07:13:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampled :

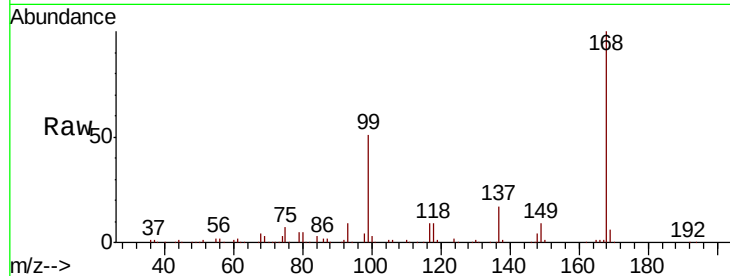
OW-2-4

Tot Ion:168 Resp: 645477

Ion Ratio Lower Upper

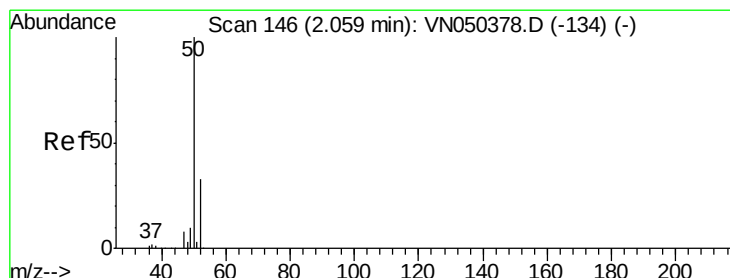
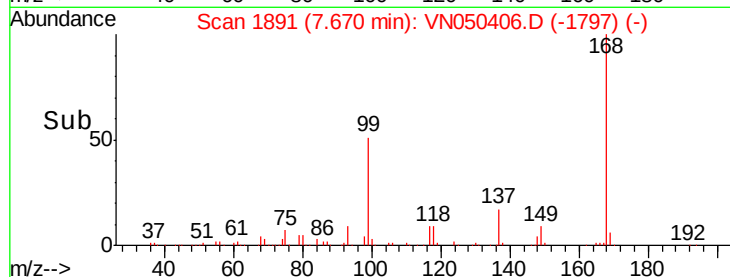
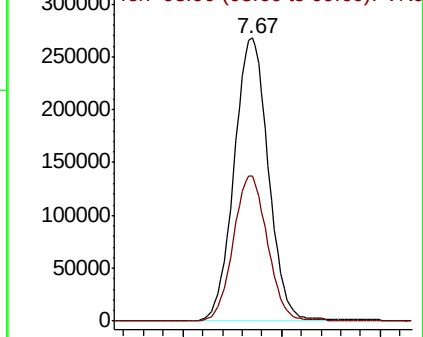
168 100

99 51.1 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050406.D

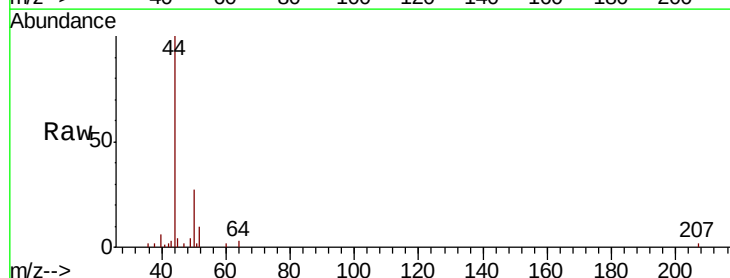
Acq: 7 Aug 2018 1:23

Tgt Ion: 50 Resp: 4059

Ion Ratio Lower Upper

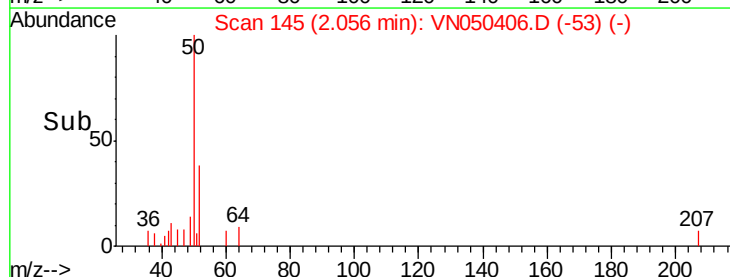
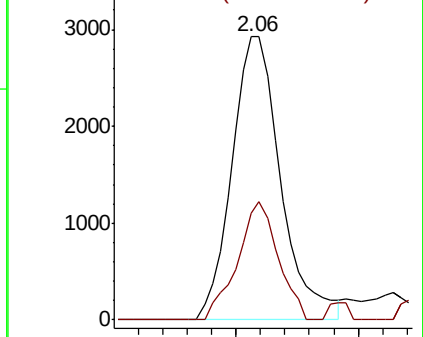
50 100

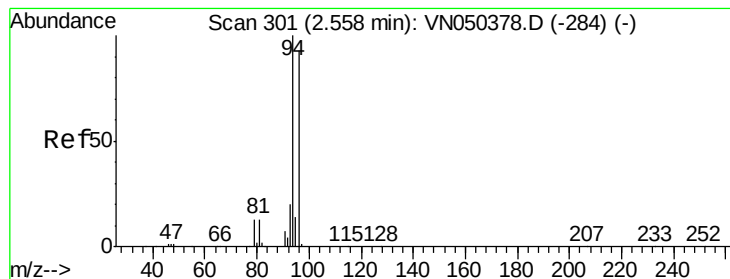
52 37.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 1.39 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampled :

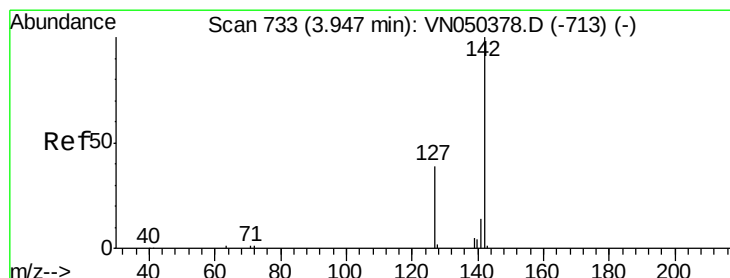
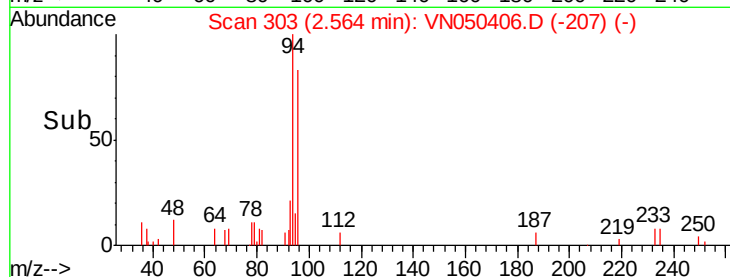
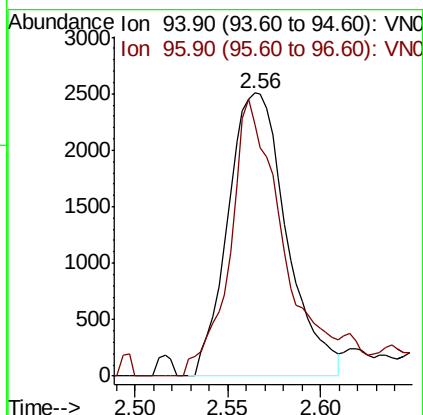
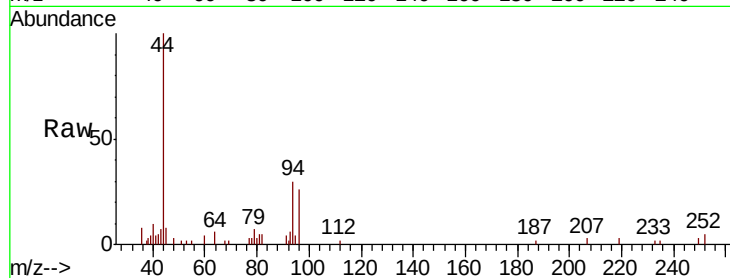
OW-2-4

Tot Ion: 94 Resp: 5514

Ion Ratio Lower Upper

94 100

96 82.8 74.6 112.0



#10

Methyl Iodide

Concen: 0.47 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

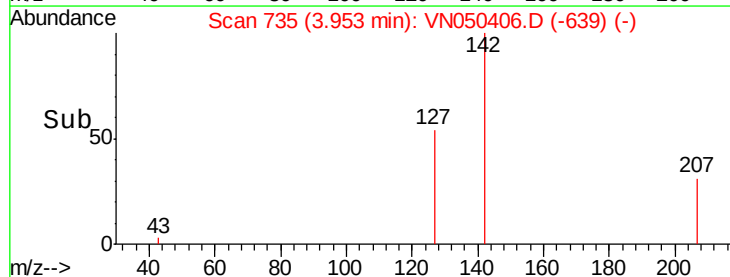
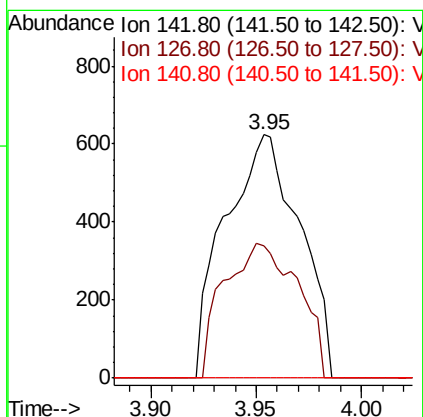
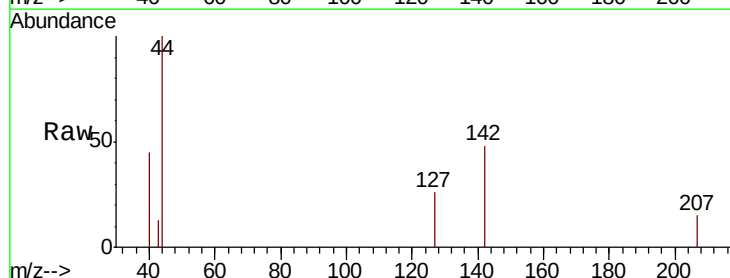
Tgt Ion: 142 Resp: 1535

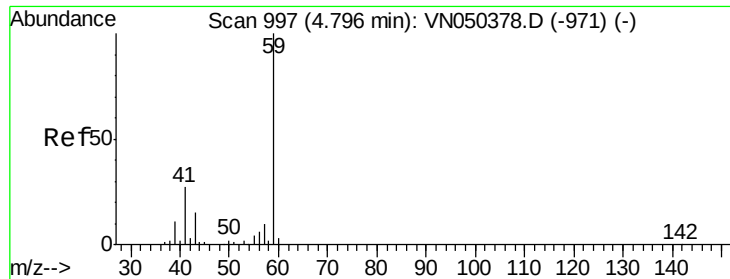
Ion Ratio Lower Upper

142 100

127 54.8 33.4 50.2#

141 0.0 11.6 17.4#

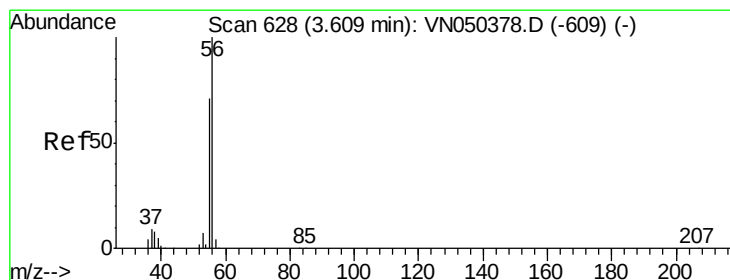
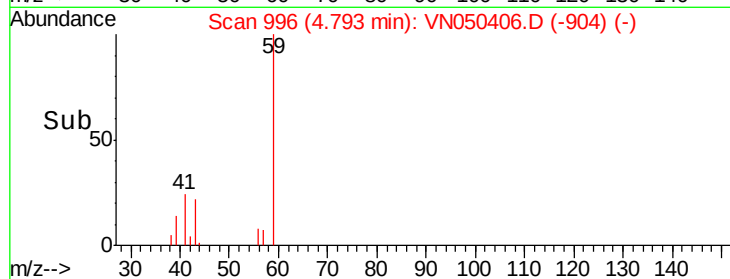
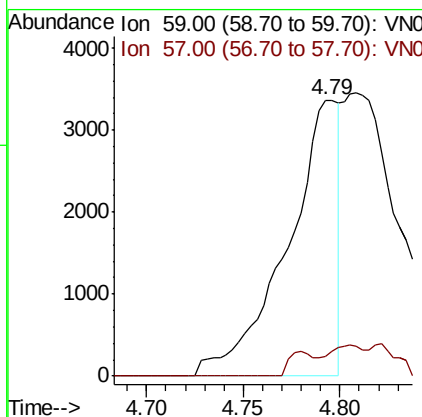
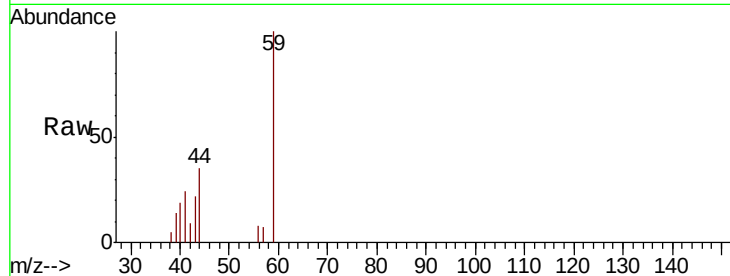




#11
Tert butyl alcohol
Concen: 8.98 ug/l
RT: 4.79 min Scan# 996
Delta R.T. -0.00 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

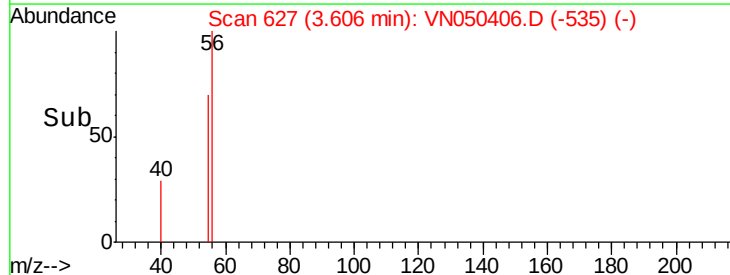
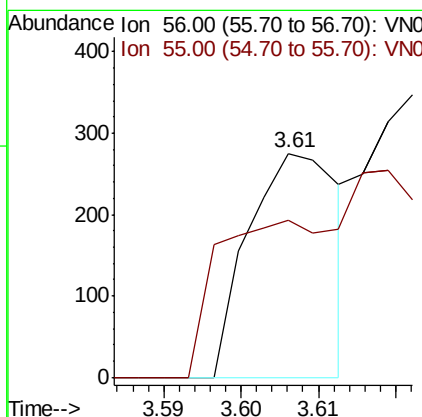
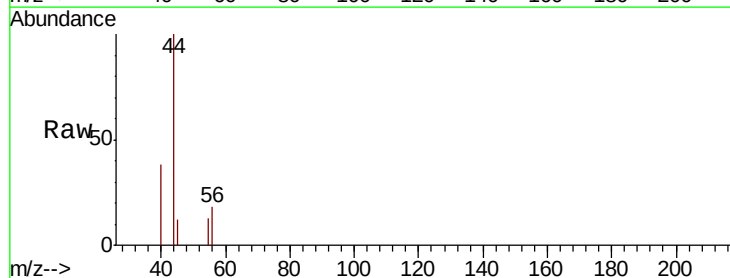
Instrument :
MSVOA_N
ClientSampled :
OW-2-4

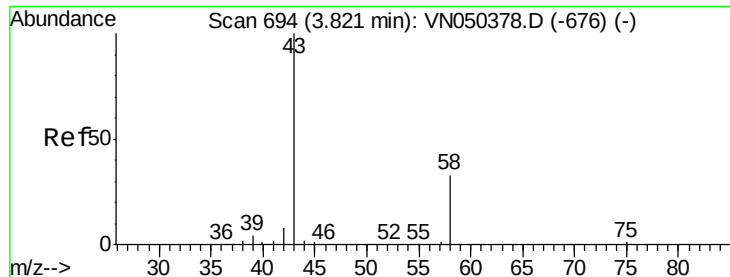
Tot Ion: 59 Resp: 6221
Ion Ratio Lower Upper
59 100
57 4.8 8.5 12.7#



#13
Acrolein
Concen: 15.26 ug/l
RT: 3.61 min Scan# 627
Delta R.T. -0.00 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.6#





#16

Acetone

Concen: 9.35 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampleId :

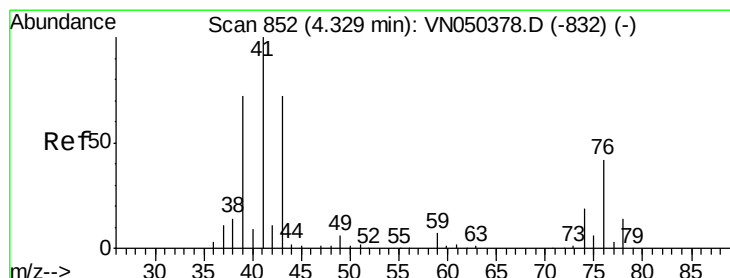
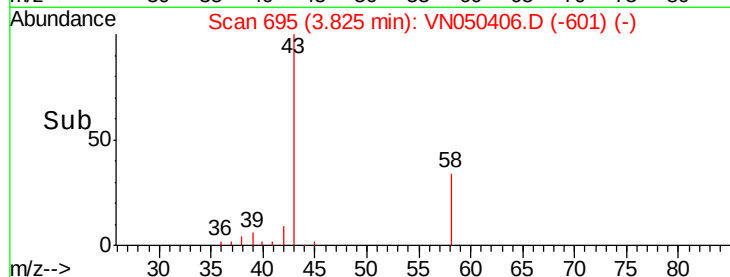
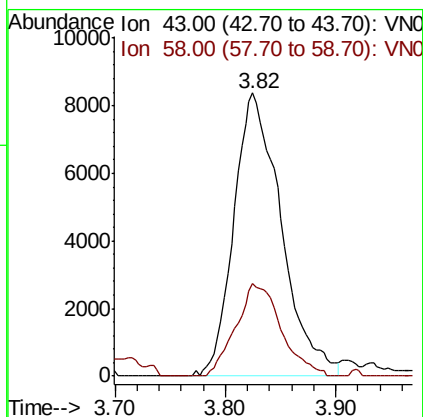
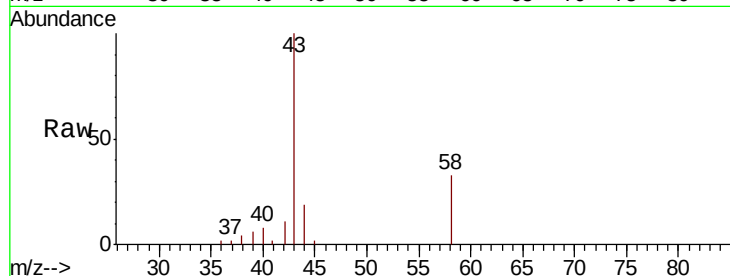
OW-2-4

Tot Ion: 43 Resp: 24940

Ion Ratio Lower Upper

43 100

58 32.7 25.8 38.8



#18

Methyl Acetate

Concen: 0.73 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050406.D

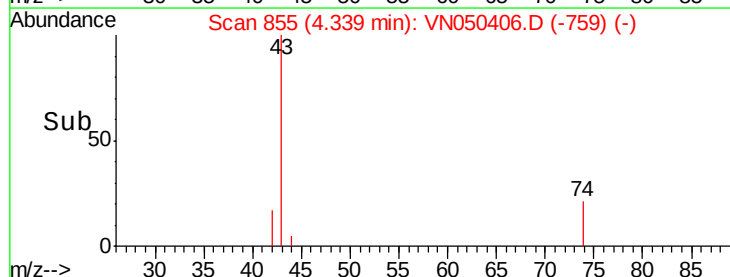
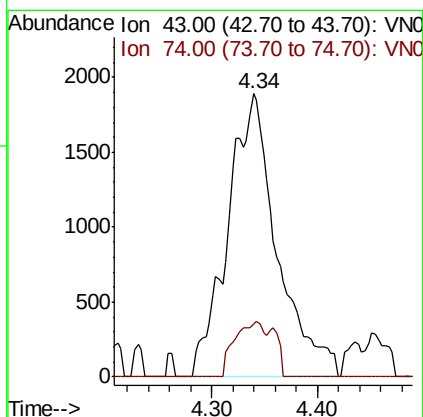
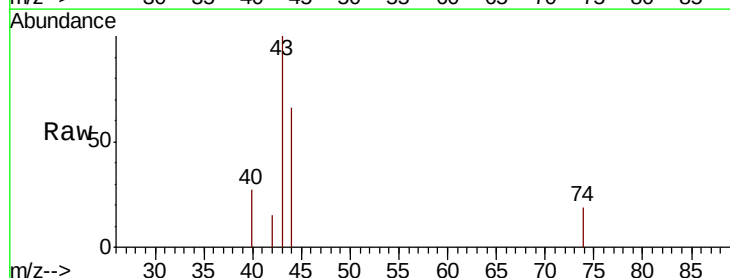
Acq: 7 Aug 2018 1:23

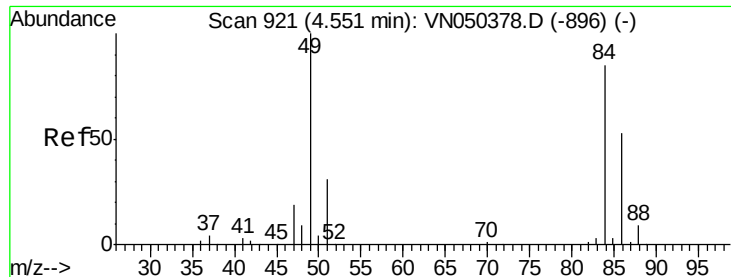
Tgt Ion: 43 Resp: 6157

Ion Ratio Lower Upper

43 100

74 12.0 19.2 28.8#



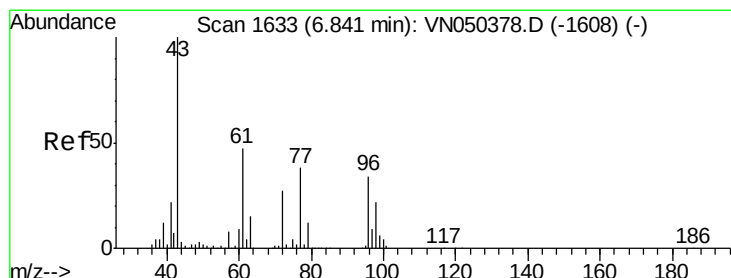
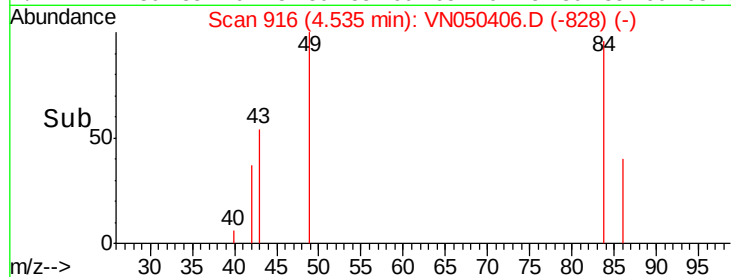
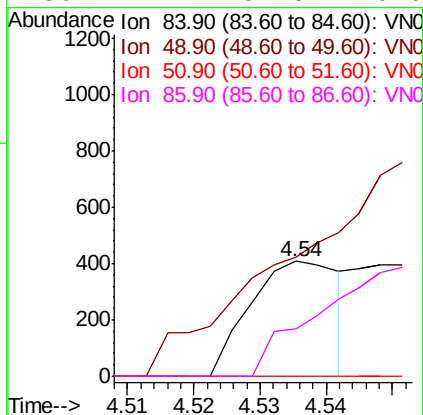
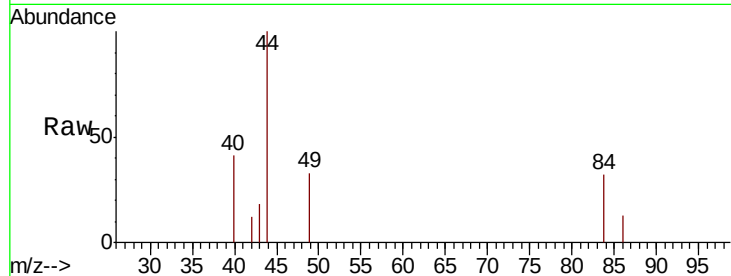


#20
Methvlene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 916
Delta R.T. -0.02 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

Instrument :
MSVOA_N
ClientSampled :
OW-2-4

Tot Ion: 84 Resp: 382

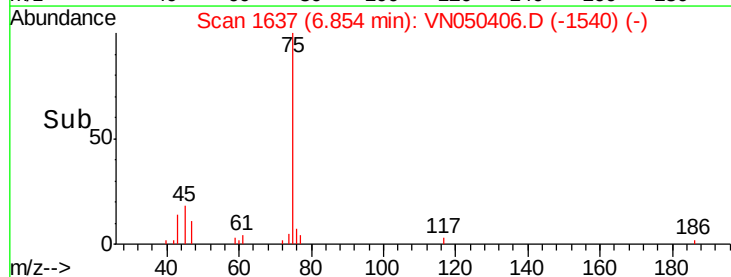
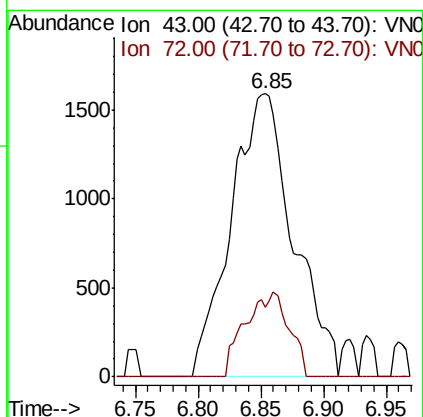
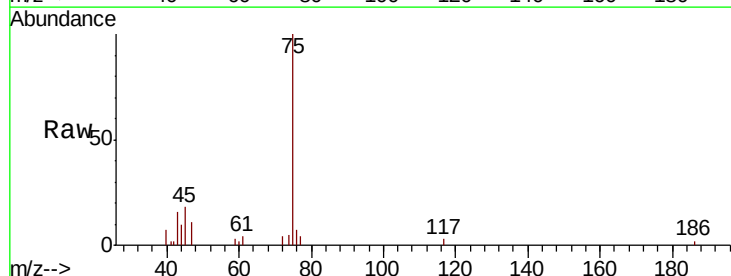
Ion	Ratio	Lower	Upper
84	100		
49	66.3	94.8	142.2#
51	0.0	28.3	42.5#
86	41.1	51.0	76.6#

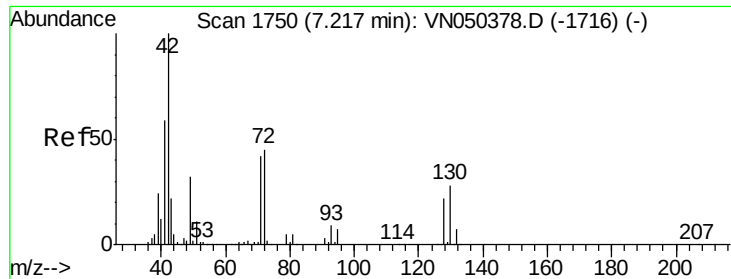


#25
2-Butanone
Concen: 1.29 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

Tgt Ion: 43 Resp: 5501

Ion	Ratio	Lower	Upper
43	100		
72	24.8	21.5	32.3





#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampled :

OW-2-4

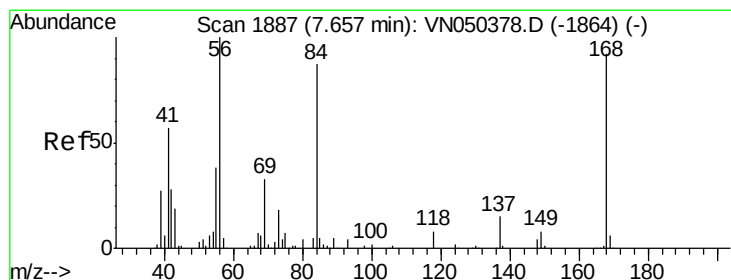
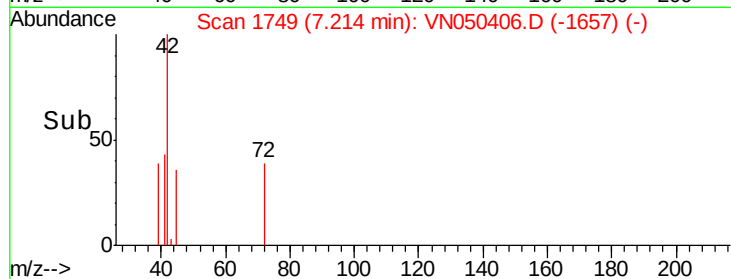
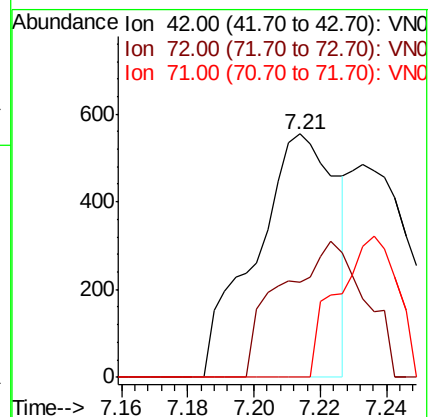
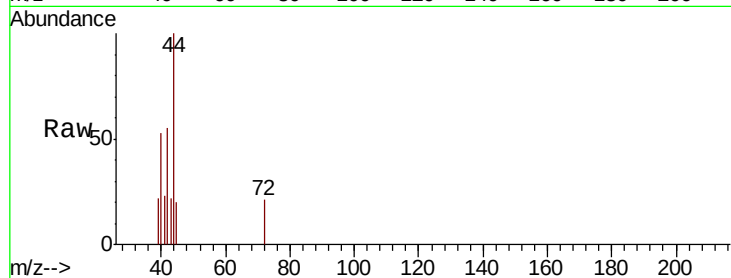
Tot Ion: 42 Resp: 942

Ion Ratio Lower Upper

42 100

72 57.4 35.9 53.9#

71 0.0 33.7 50.5#



#31

Cyclohexane

Concen: 0.38 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

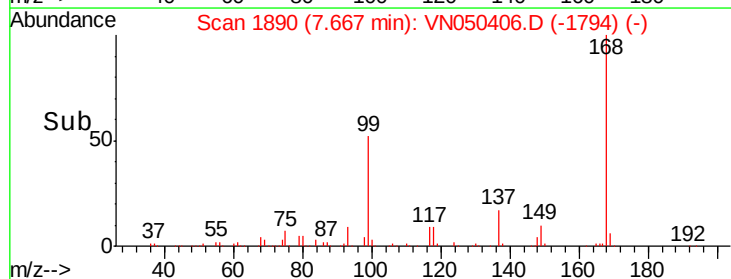
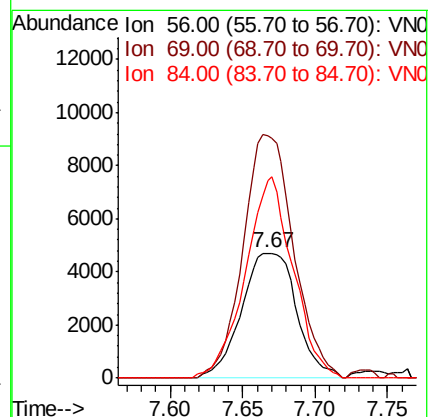
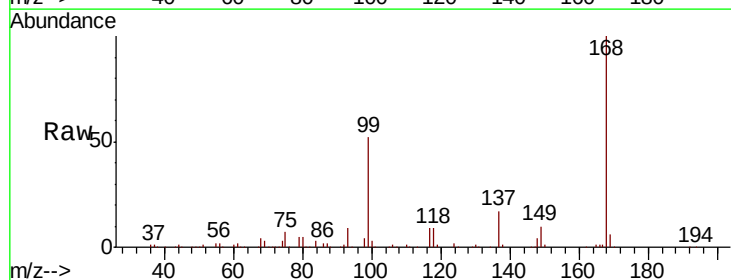
Tgt Ion: 56 Resp: 12418

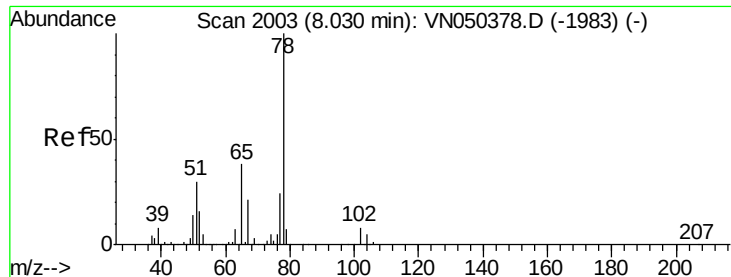
Ion Ratio Lower Upper

56 100

69 194.7 26.2 39.4#

84 158.4 67.4 101.0#

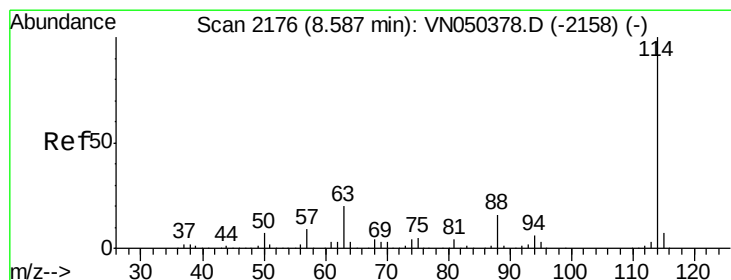
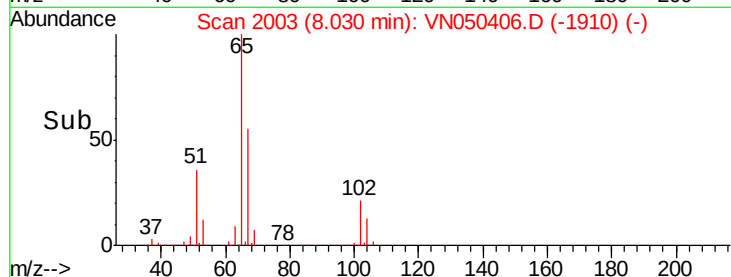
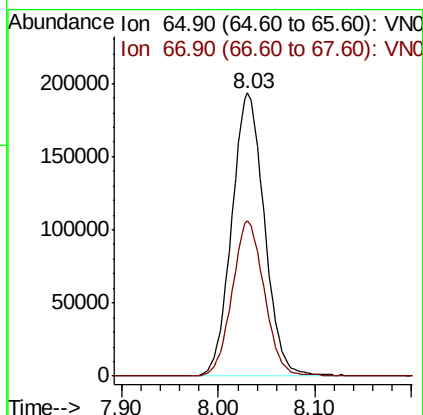
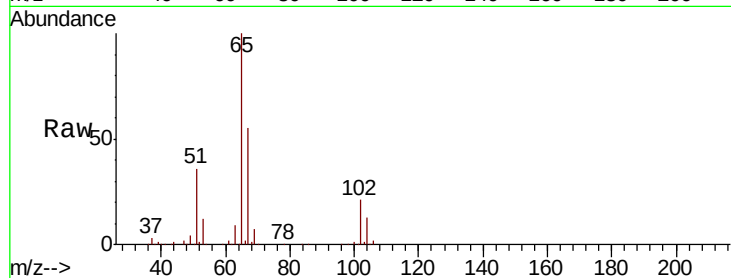




#33
 1,2-Dichloroethane-d4
 Concen: 52.61 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050406.D
 Acq: 7 Aug 2018 1:23

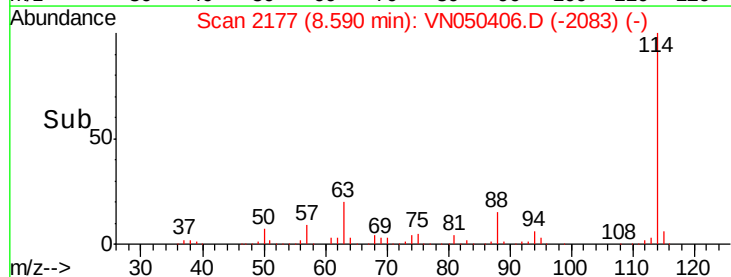
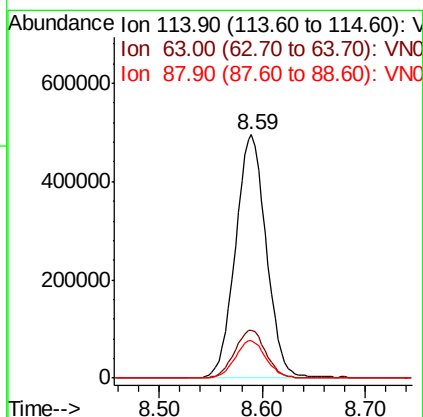
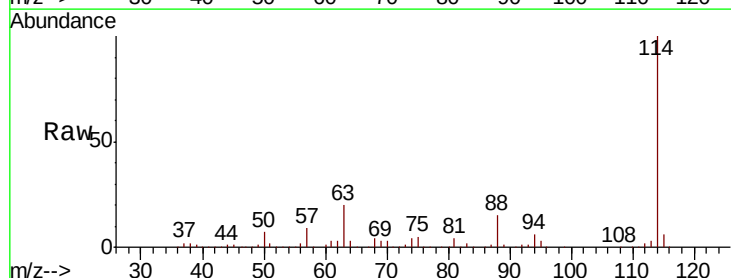
Instrument :
 MSVOA_N
 ClientSampled :
 OW-2-4

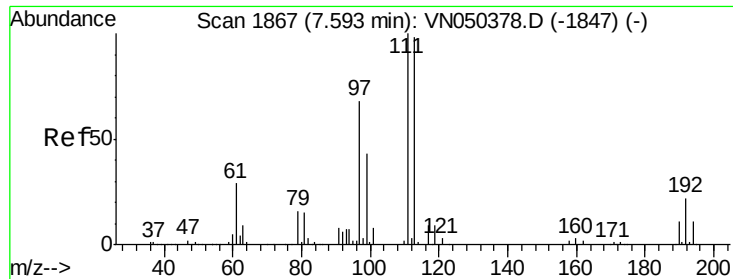
Tot Ion: 65 Resp: 453690
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050406.D
 Acq: 7 Aug 2018 1:23

Tgt Ion: 114 Resp: 1031912
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.2 0.0 31.2

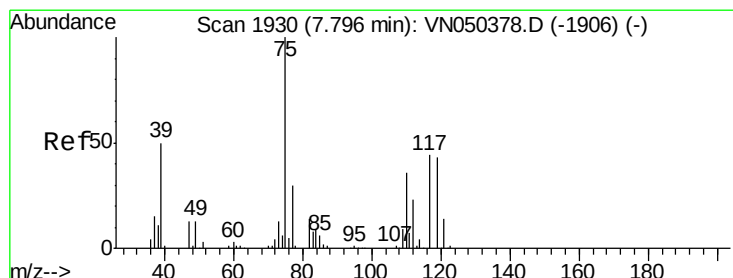
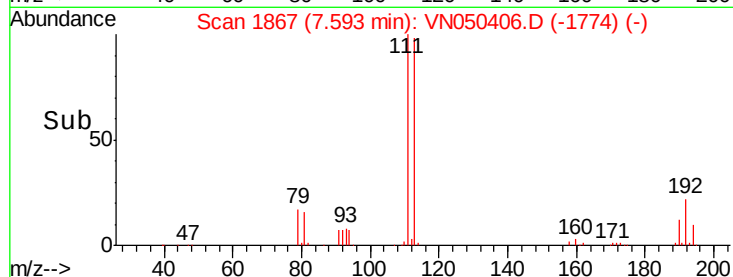
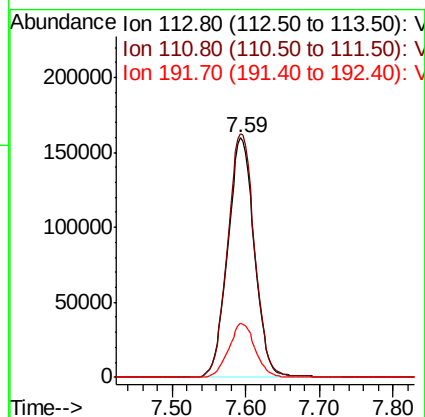
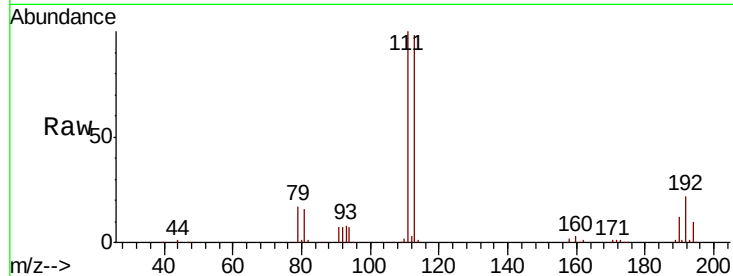




#35
 Dibromofluoromethane
 Concen: 48.41 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050406.D
 Acq: 7 Aug 2018 1:23

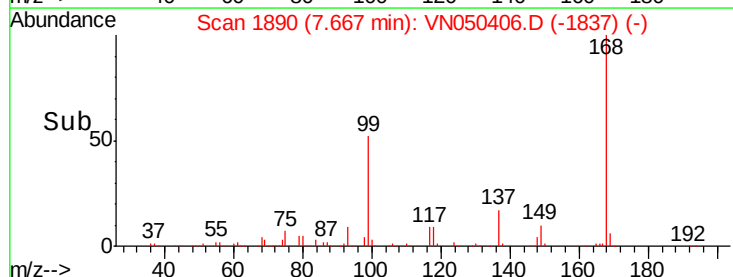
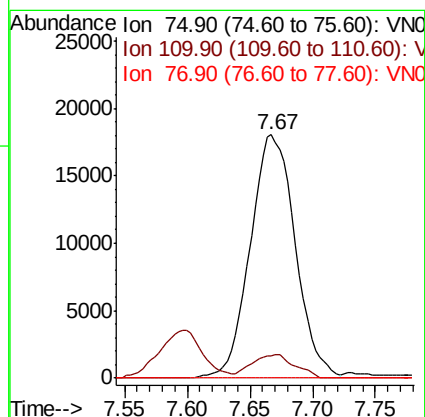
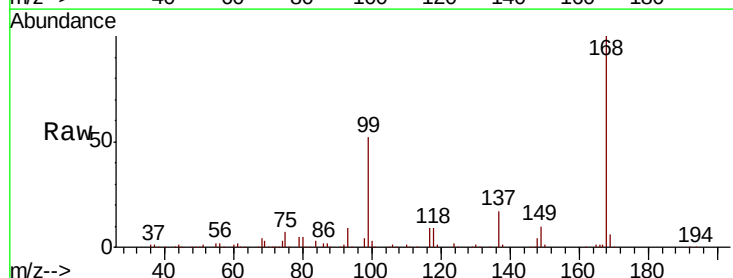
Instrument :
 MSVOA_N
 ClientSampleId :
 OW-2-4

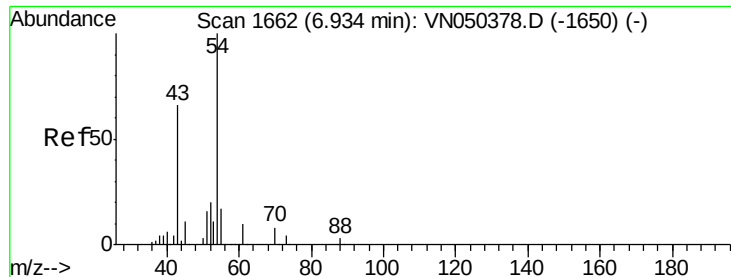
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.7	121.1
192	22.3	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.98 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050406.D
 Acq: 7 Aug 2018 1:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.4	55.2#
77	0.0	25.3	37.9#





#37

Ethyl Acetate

Concen: 0.67 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. -0.08 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampleId :

OW-2-4

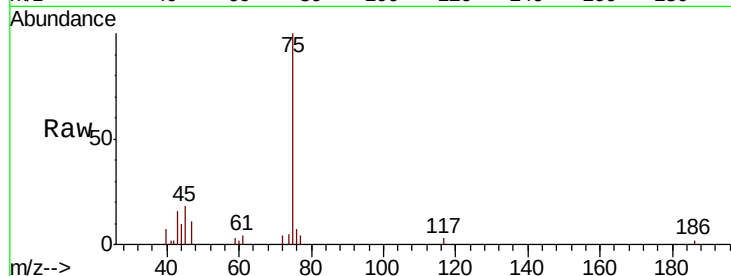
Tot Ion: 43 Resp: 5501

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.8#

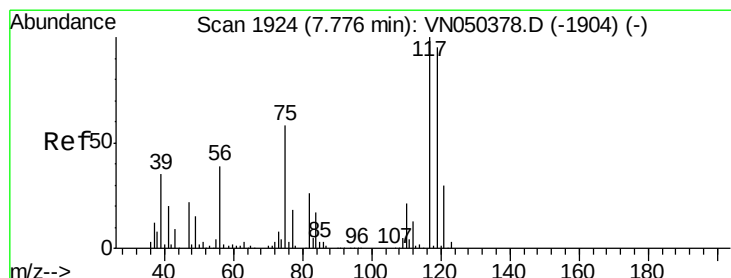
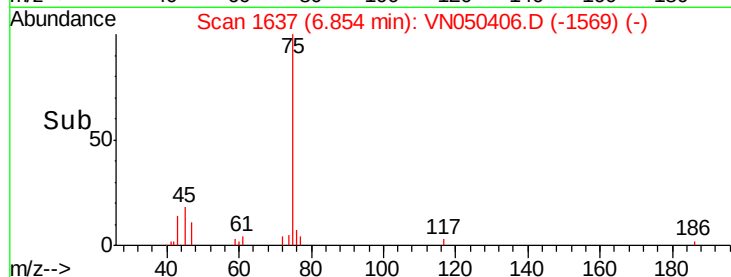
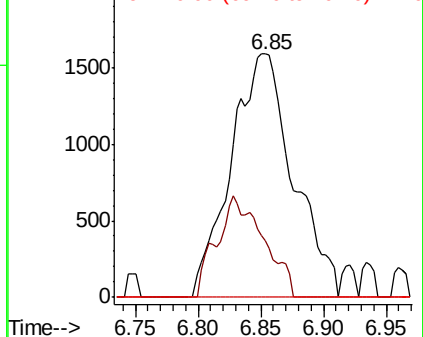
70 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0



#38

Carbon Tetrachloride

Concen: 5.07 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

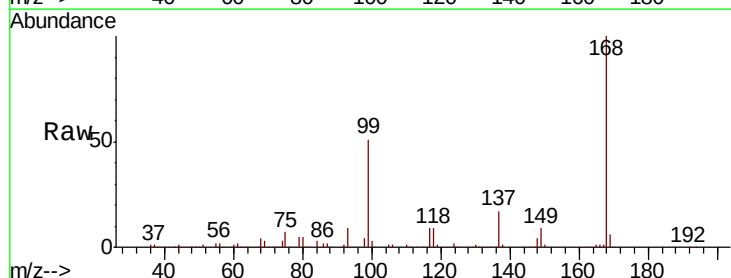
Tgt Ion: 117 Resp: 59957

Ion Ratio Lower Upper

117 100

119 5.6 77.4 116.0#

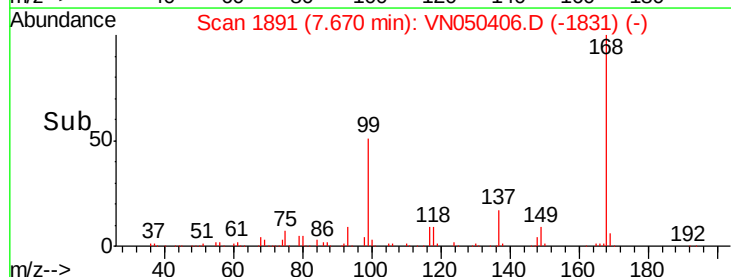
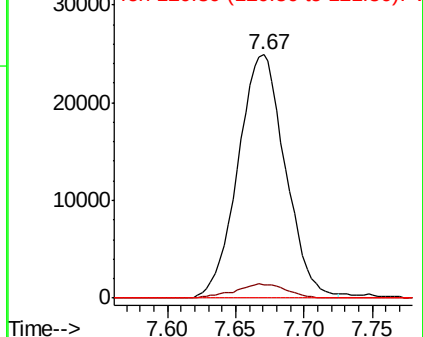
121 0.0 23.9 35.9#

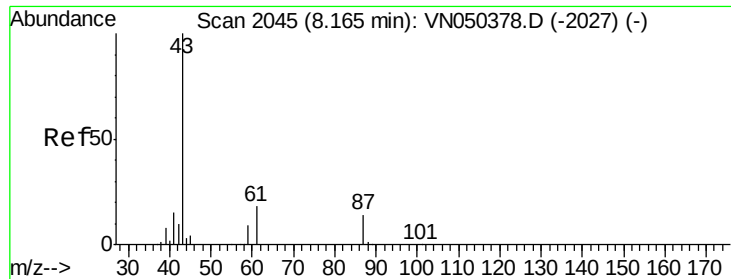


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 3.33 ug/l

RT: 8.25 min Scan# 2070

Delta R.T. 0.08 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampleId :

OW-2-4

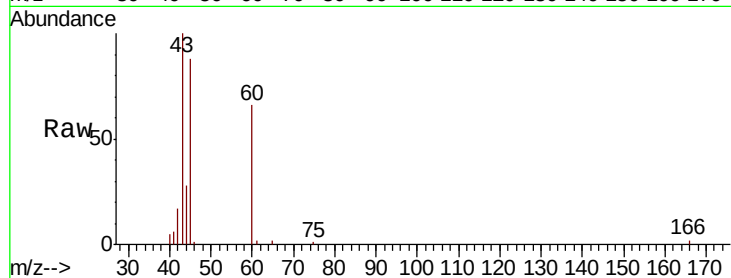
Tot Ion: 43 Resp: 46984

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

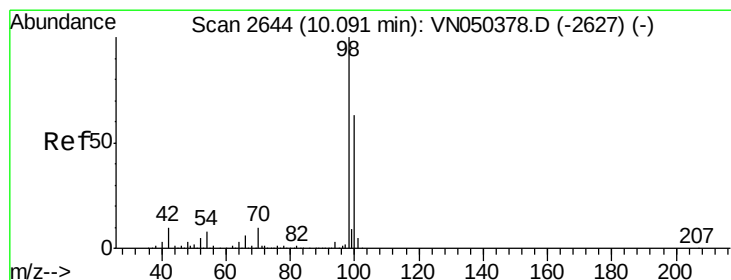
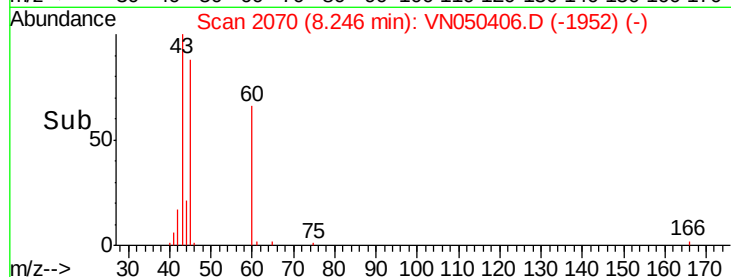
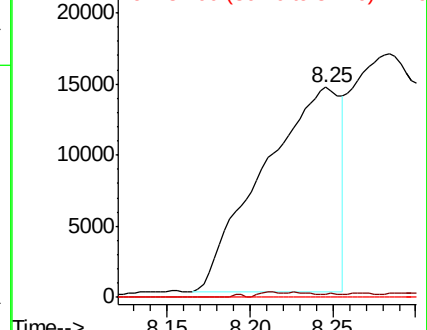
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 45.73 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050406.D

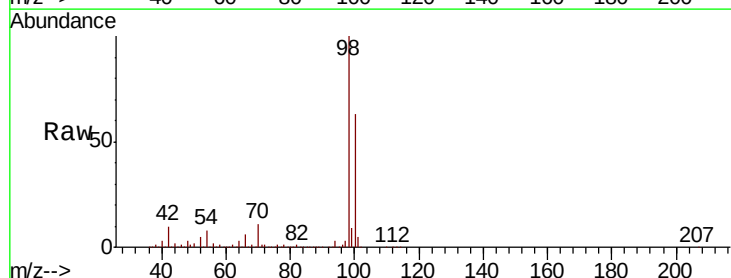
Acq: 7 Aug 2018 1:23

Tgt Ion: 98 Resp: 1423574

Ion Ratio Lower Upper

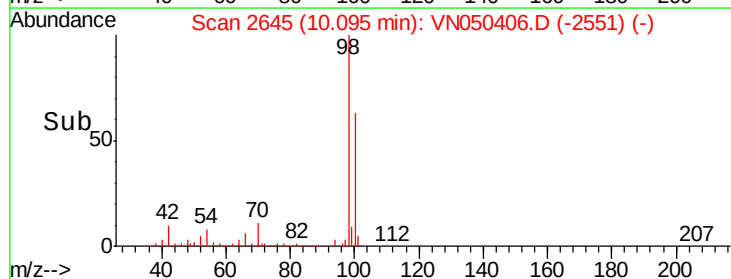
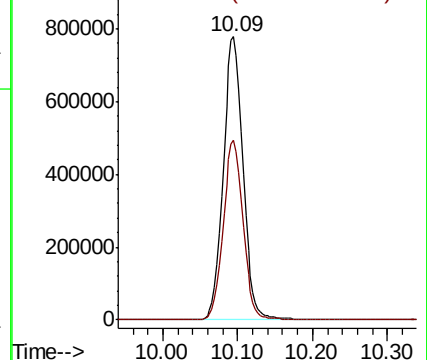
98 100

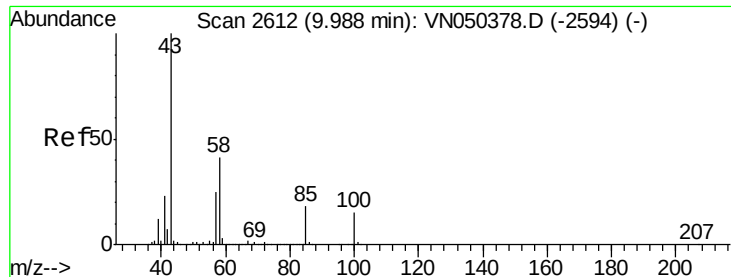
100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

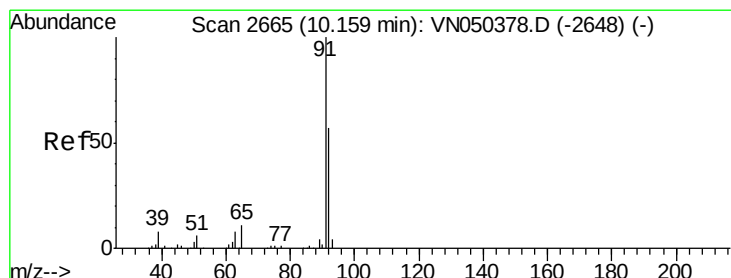
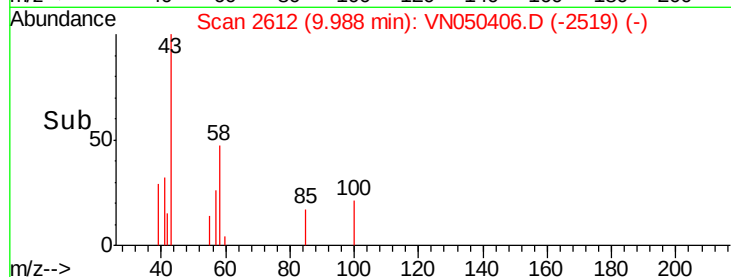
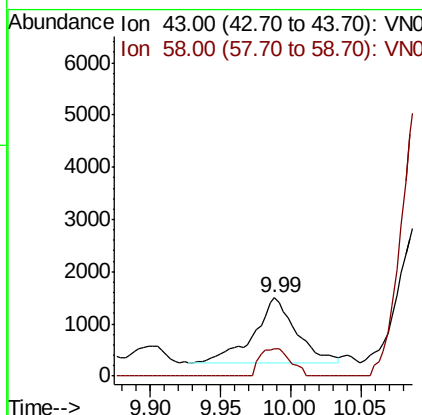
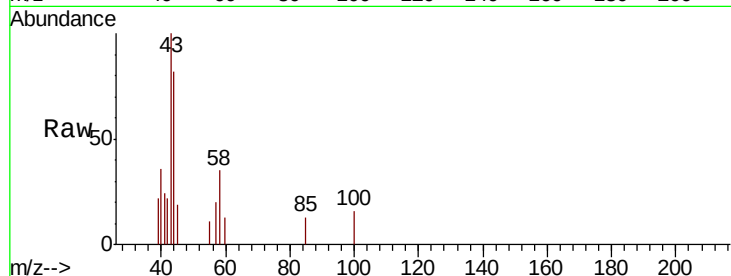




#51
 4-Methyl-2-Pentanone
 Concen: 0.26 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050406.D
 Acq: 7 Aug 2018 1:23

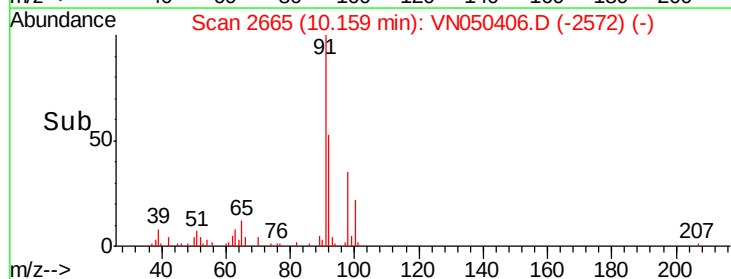
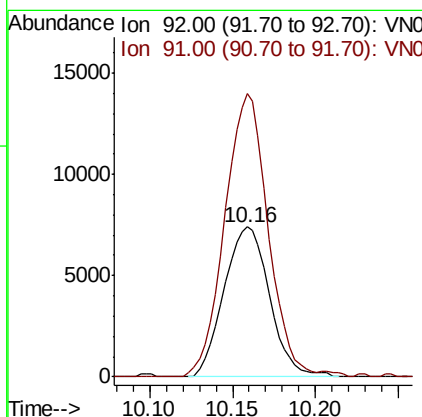
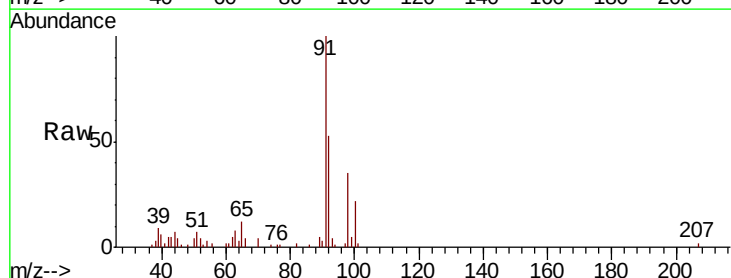
Instrument :
 MSVOA_N
 ClientSampled :
 OW-2-4

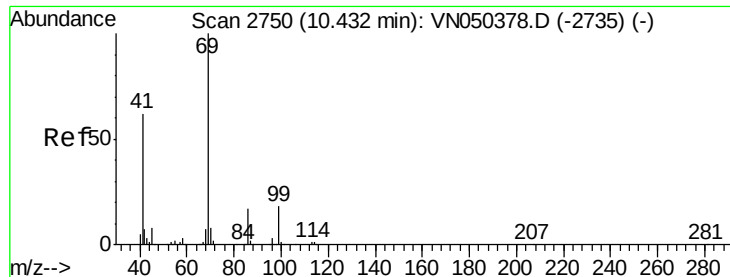
Tot Ion: 43 Resp: 2619
 Ion Ratio Lower Upper
 43 100
 58 30.8 31.9 47.9#



#52
 Toluene
 Concen: 0.67 ug/l
 RT: 10.16 min Scan# 2665
 Delta R.T. 0.00 min
 Lab File: VN050406.D
 Acq: 7 Aug 2018 1:23

Tgt Ion: 92 Resp: 14128
 Ion Ratio Lower Upper
 92 100
 91 178.9 140.3 210.5





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.27 min Scan# 2699

Delta R.T. -0.16 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampled :

OW-2-4

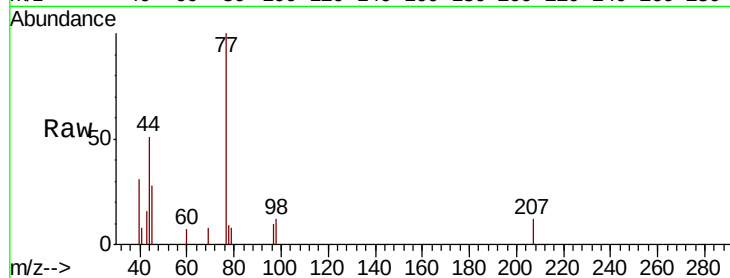
Tot Ion: 69 Resp: 62

Ion Ratio Lower Upper

69 100

41 153.2 51.0 76.4#

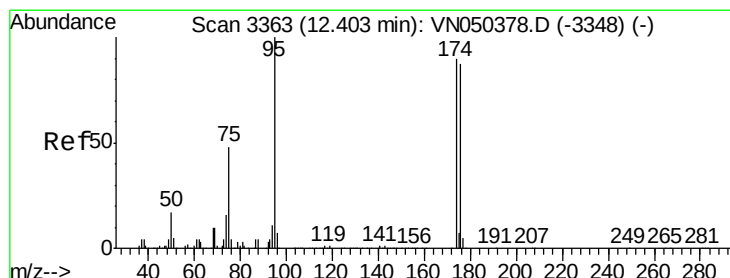
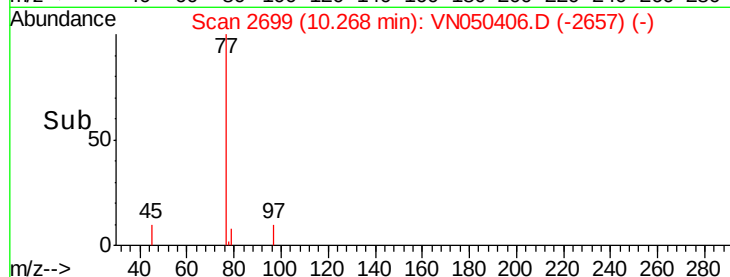
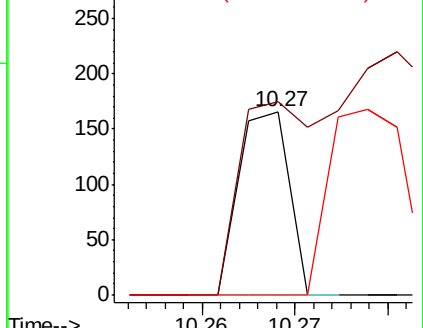
39 0.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#62

4-Bromofluorobenzene

Concen: 36.75 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

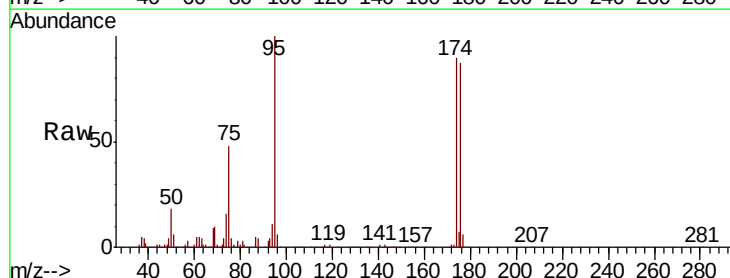
Tgt Ion: 95 Resp: 389965

Ion Ratio Lower Upper

95 100

174 91.0 0.0 178.2

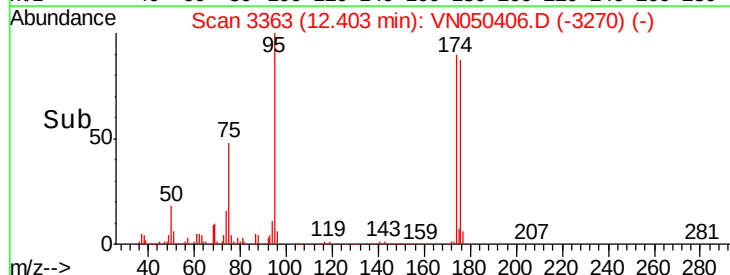
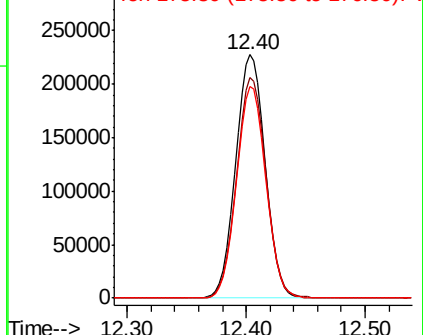
176 86.8 0.0 173.4

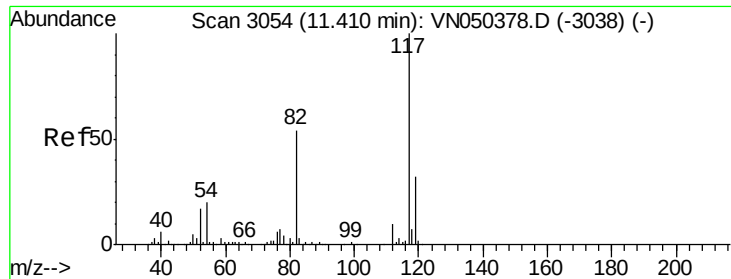


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

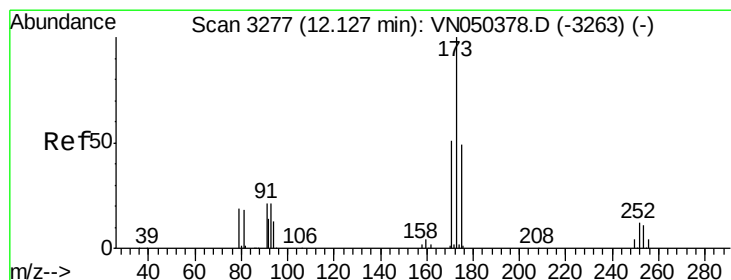
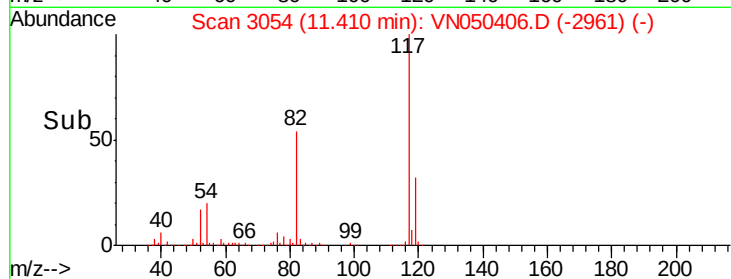
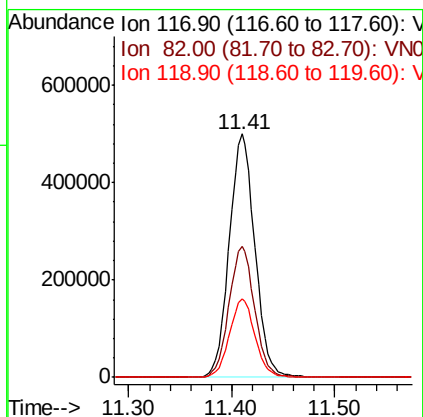
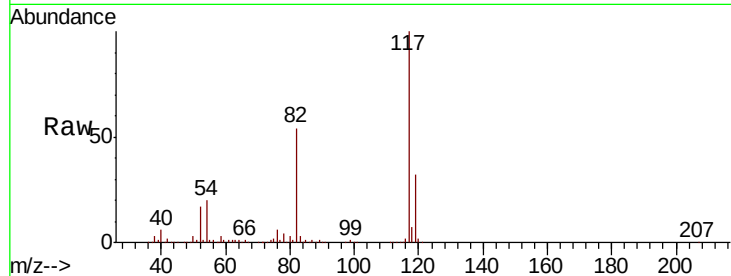




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

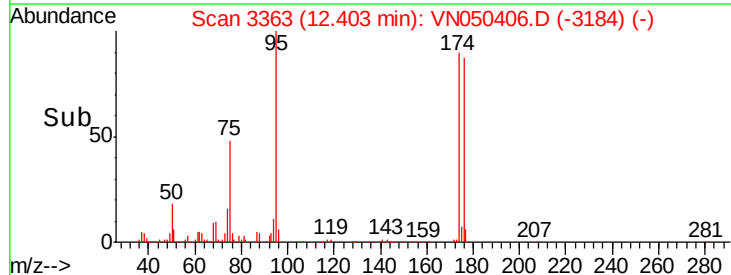
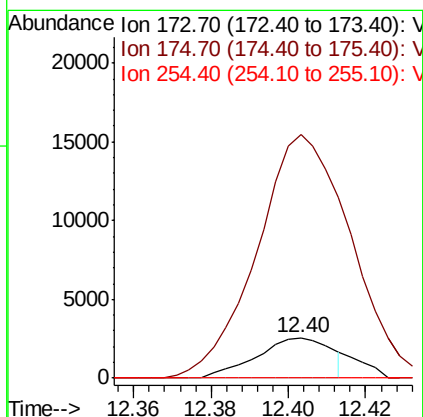
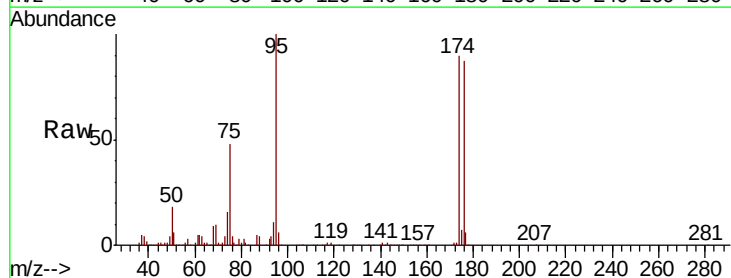
Instrument :
MSVOA_N
ClientSampleId :
OW-2-4

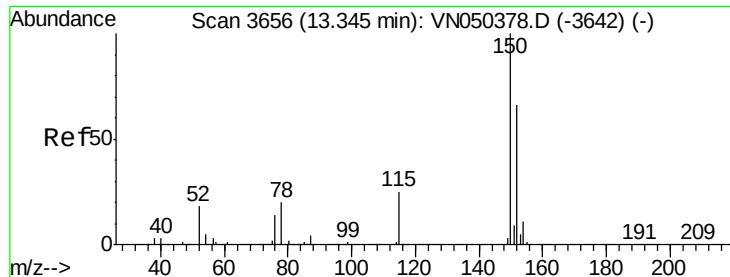
Tot Ion:117 Resp: 865649
Ion Ratio Lower Upper
117 100
82 54.0 43.7 65.5
119 32.2 26.1 39.1



#71
Bromoform
Concen: 0.59 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

Tgt Ion:173 Resp: 3421
Ion Ratio Lower Upper
173 100
175 620.8 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampled :

OW-2-4

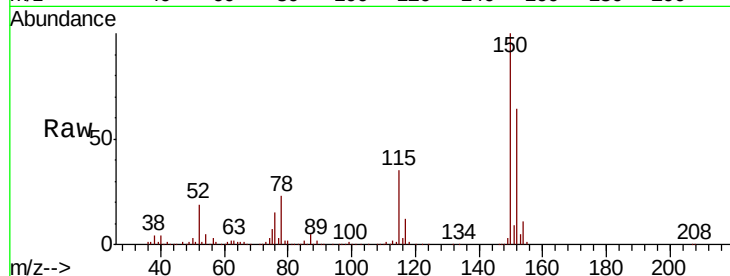
Tot Ion:152 Resp: 334531

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.3

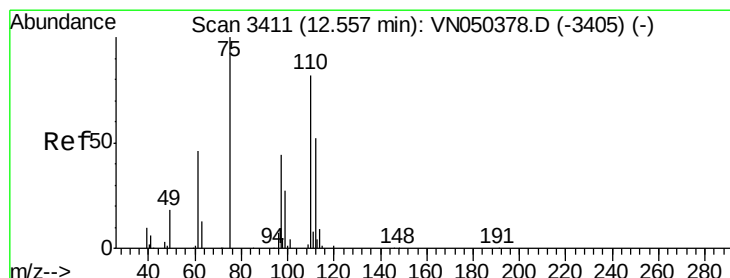
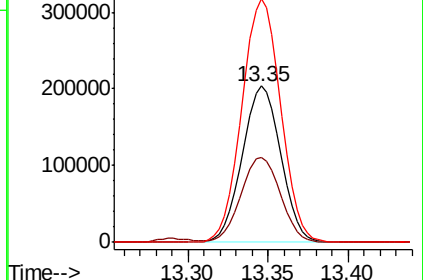
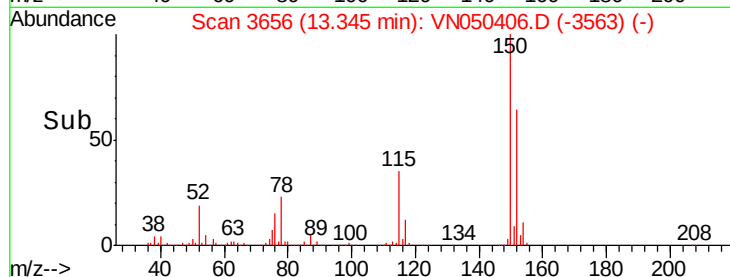
150 156.7 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 30.94 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050406.D

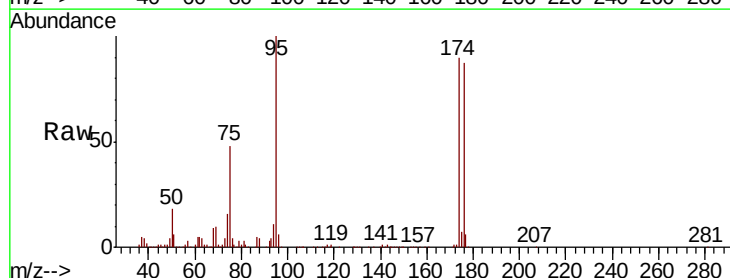
Acq: 7 Aug 2018 1:23

Tgt Ion: 75 Resp: 187347

Ion Ratio Lower Upper

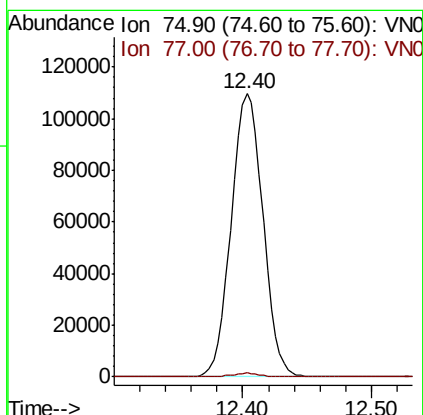
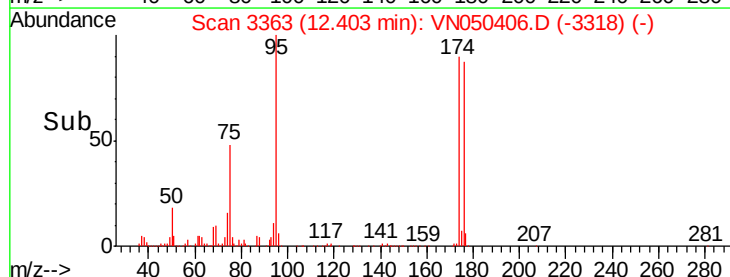
75 100

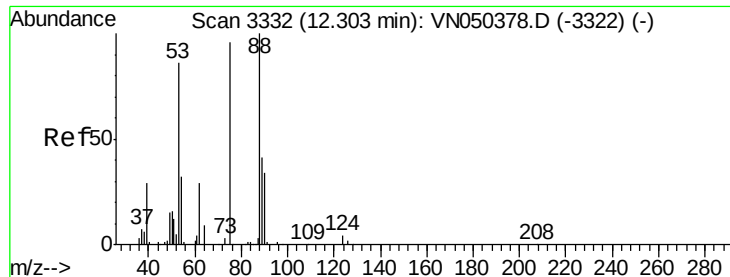
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050406.D

Acq: 7 Aug 2018 1:23

Instrument :

MSVOA_N

ClientSampled :

OW-2-4

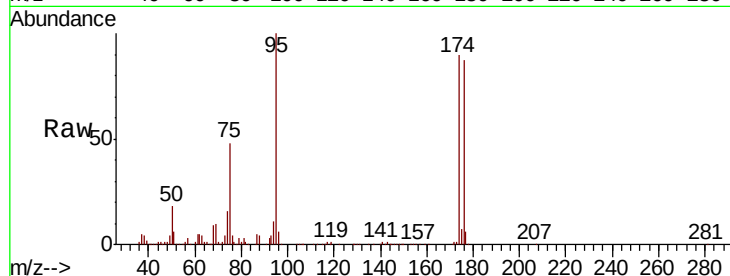
Tot Ion: 75 Resp: 187347

Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

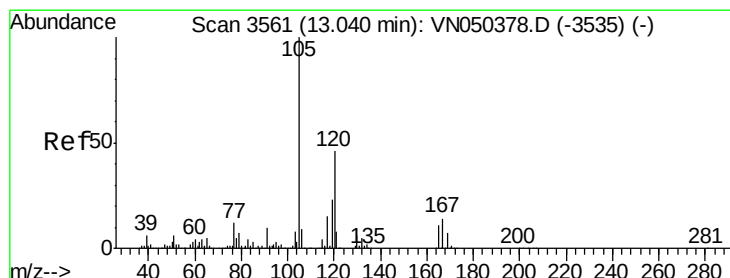
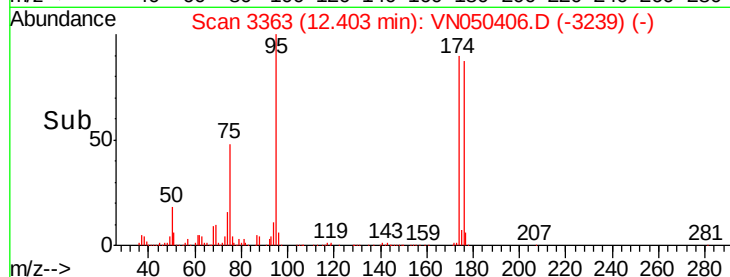
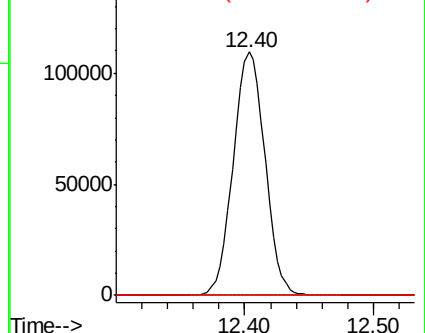
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: 0.28 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN050406.D

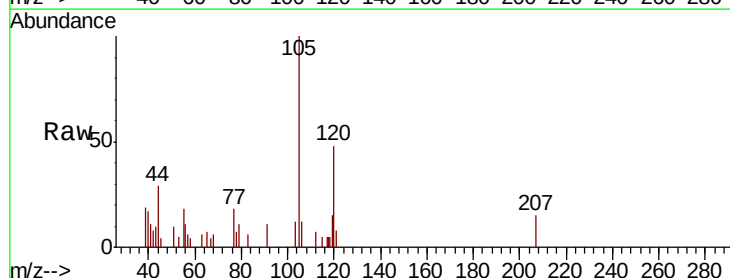
Acq: 7 Aug 2018 1:23

Tgt Ion: 105 Resp: 5850

Ion Ratio Lower Upper

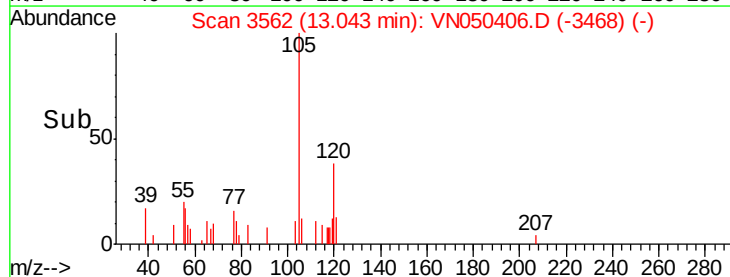
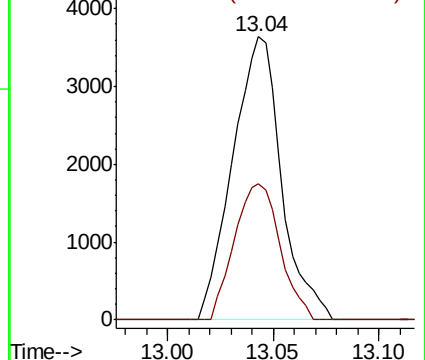
105 100

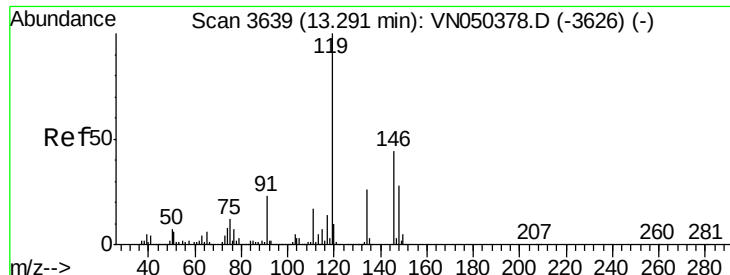
120 45.0 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

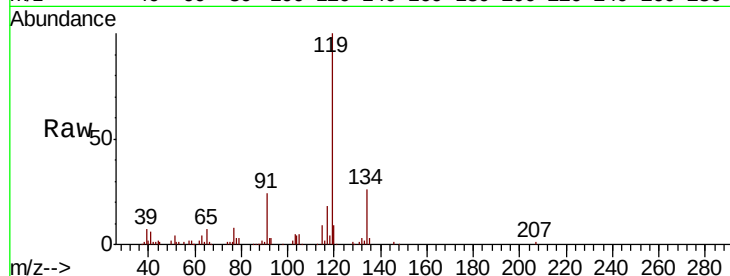




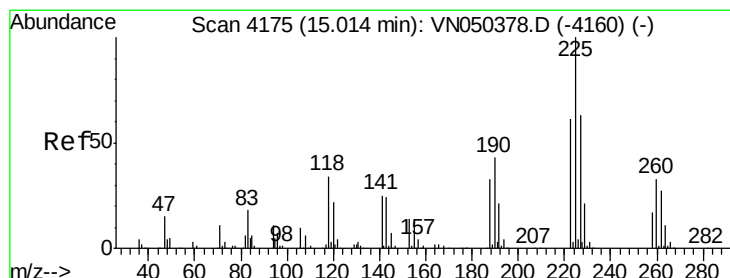
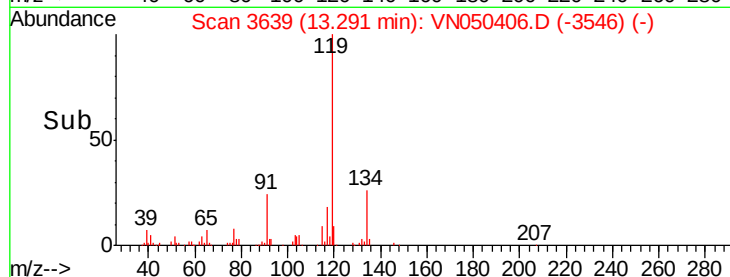
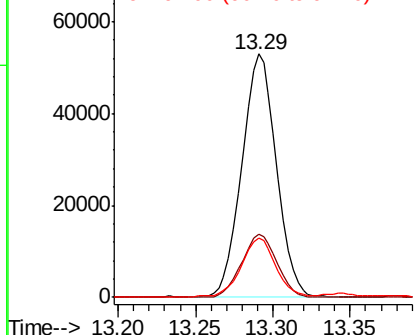
#86
p-Isopropyltoluene
Concen: 4.05 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.00 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

Instrument :
MSVOA_N
ClientSampled :
OW-2-4

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.3	39.8
91	24.8	11.4	34.2

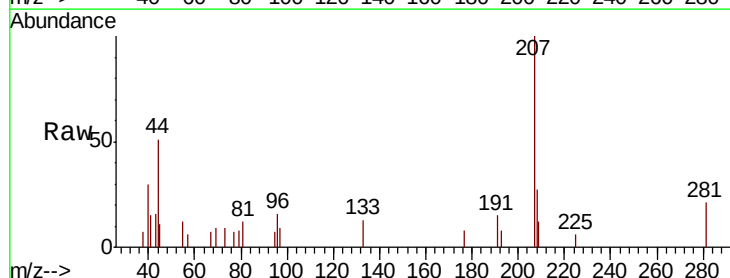


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

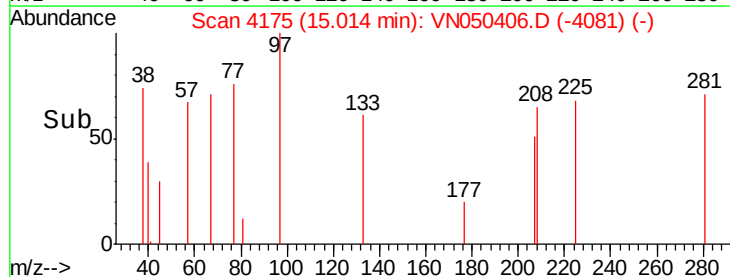
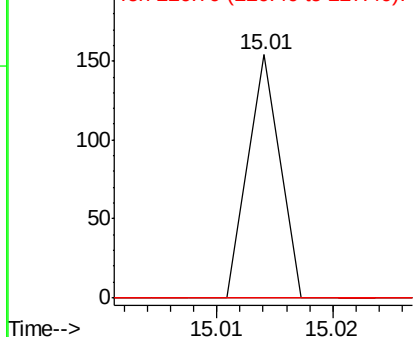


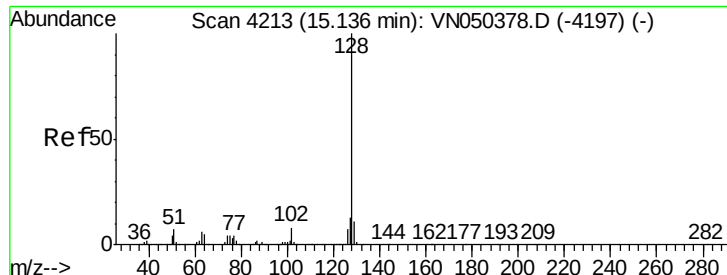
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4175
Delta R.T. 0.00 min
Lab File: VN050406.D
Acq: 7 Aug 2018 1:23

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.4	94.2#
227	0.0	32.1	96.5#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

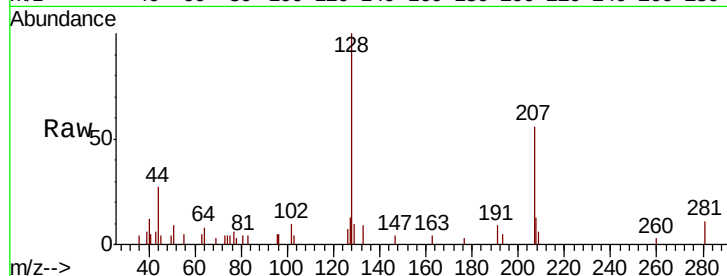




#95
 Naphthalene
 Concen: 4.11 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050406.D
 Acq: 7 Aug 2018 1:23

Instrument :
 MSVOA_N
 ClientSampleId :
 OW-2-4

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.5	10.4	15.6#
129	9.6	8.8	13.2



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

