

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051222.D
 Acq On : 15 Sep 2018 15:06
 Operator : MD\SY
 Sample : PB112879ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

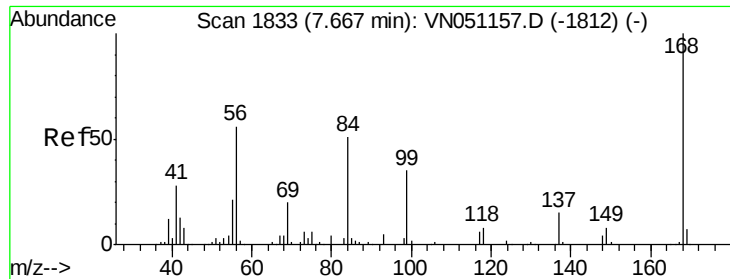
Quant Time: Sep 17 02:15:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	450768	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	687414	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	553799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	164449	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	237503	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
35) Dibromofluoromethane	7.59	113	259477	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
50) Toluene-d8	10.09	98	872689	44.52	ug/l	0.00
Spiked Amount			Recovery	=	89.04%	
62) 4-Bromofluorobenzene	12.40	95	228165	35.19	ug/l	0.00
Spiked Amount			Recovery	=	70.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1941	Below Cal	#	84
5) Bromomethane	2.57	94	3036	Below Cal		94
10) Methyl Iodide	3.95	142	275	5.68	ug/l #	44
11) Tert butyl alcohol	4.80	59	99	0.26	ug/l #	73
16) Acetone	3.83	43	9021	1.47	ug/l	97
17) Carbon Disulfide	4.05	76	2490	0.29	ug/l #	76
18) Methyl Acetate	4.34	43	9814	2.44	ug/l #	70
20) Methylene Chloride	4.55	84	6293	1.14	ug/l	92
25) 2-Butanone	6.86	43	5212	2.64	ug/l	94
29) Tetrahydrofuran	7.21	42	492	0.40	ug/l #	31
31) Cyclohexane	7.67	56	7039	0.63	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	28775	3.81	ug/l #	49
37) Ethyl Acetate	6.86	43	5212	1.19	ug/l #	66
38) Carbon Tetrachloride	7.67	117	38679	5.21	ug/l #	16
43) Isopropyl Acetate	8.17	43	219804	28.50	ug/l #	85
48) Methyl methacrylate	9.18	41	5563	1.48	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	1718	0.40	ug/l	89
56) Ethyl methacrylate	10.22	69	1395	2.65	ug/l #	72
59) 2-Hexanone	10.77	43	13469	4.66	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	105184	40.99	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	105184	121.47	ug/l #	16
93) 1,2,4-Trichlorobenzene	14.91	180	152	4.03	ug/l #	80
95) Naphthalene	15.13	128	623	5.43	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	290	3.04	ug/l #	29

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

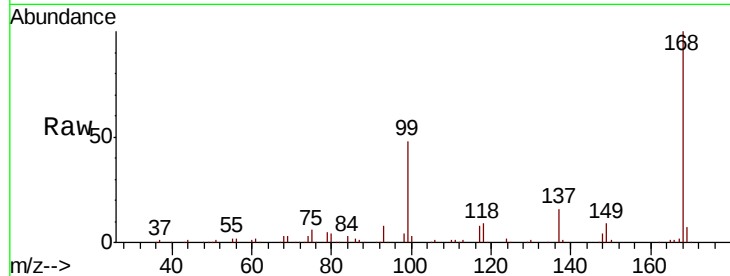
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 450768

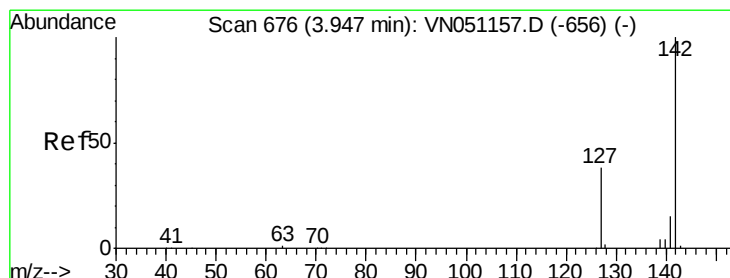
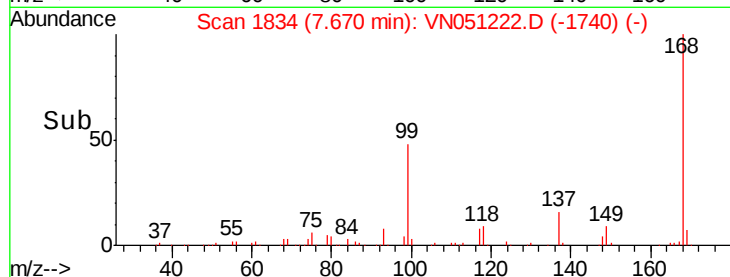
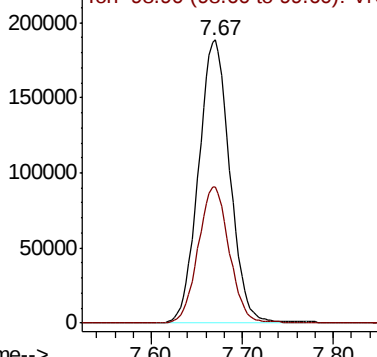
Ion Ratio Lower Upper

168 100

99 48.0 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): V



#10

Methyl Iodide

Concen: 5.68 ug/l

RT: 3.95 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

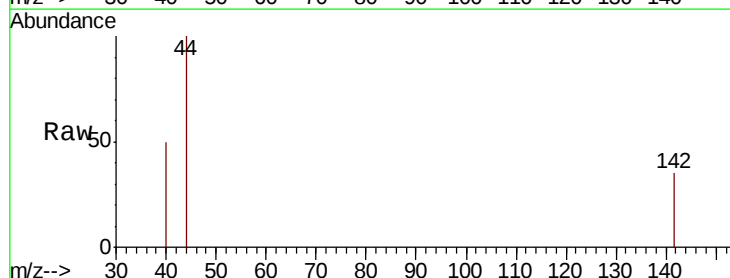
Tgt Ion:142 Resp: 275

Ion Ratio Lower Upper

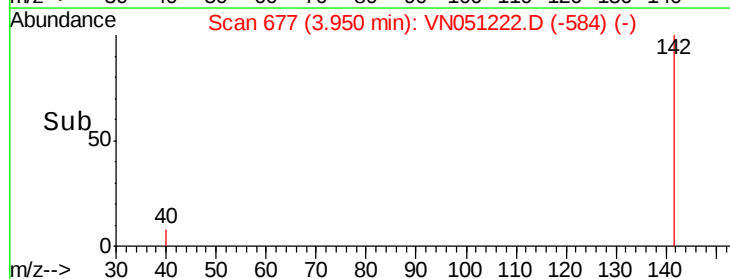
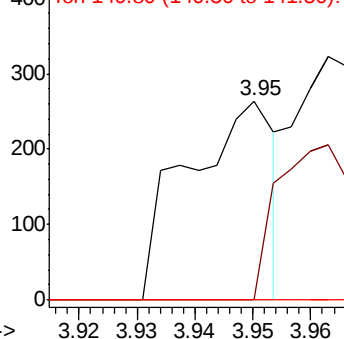
142 100

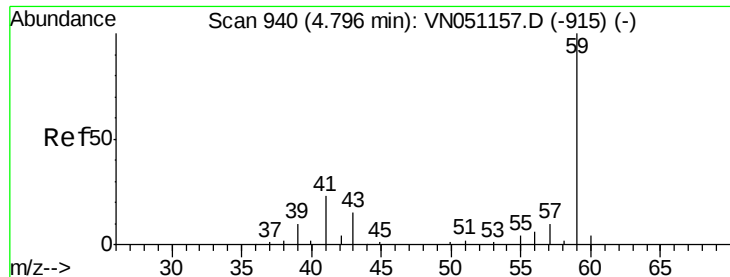
127 0.0 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

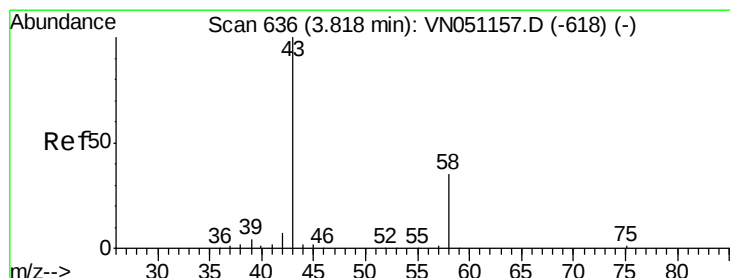
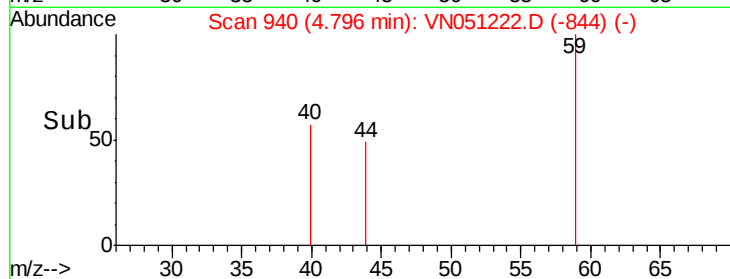
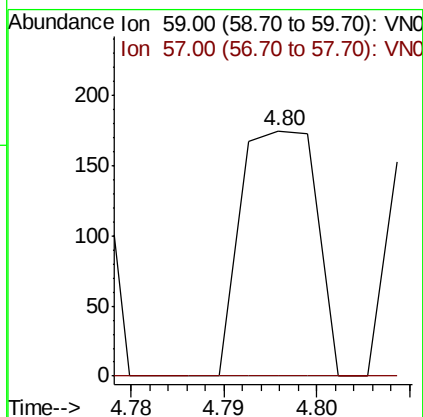
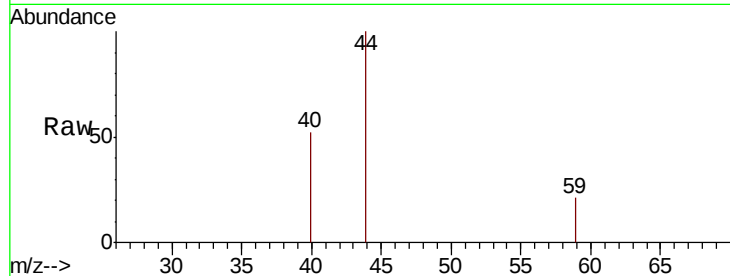




#11
Tert butyl alcohol
Concen: 0.26 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN051222.D
Acq: 15 Sep 2018 15:06

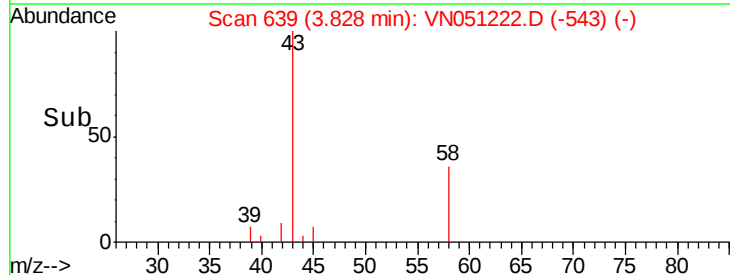
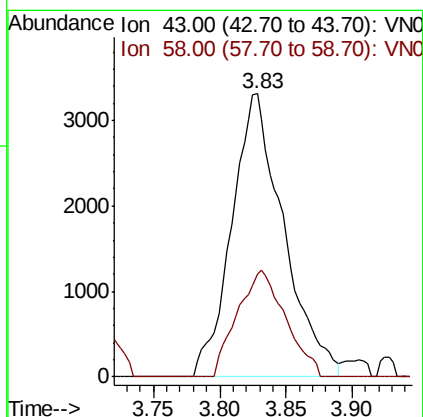
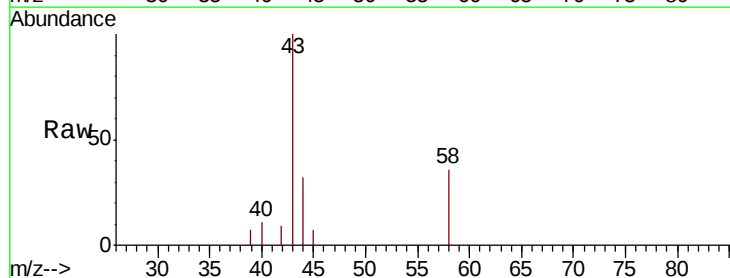
Instrument :
MSVOA_N
ClientSampled :

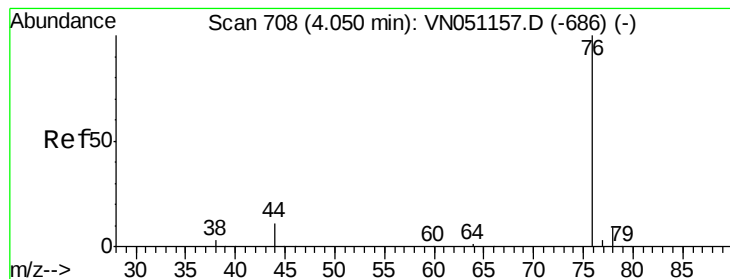
Tot Ion: 59 Resp: 99
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 1.47 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051222.D
Acq: 15 Sep 2018 15:06

Tgt Ion: 43 Resp: 9021
Ion Ratio Lower Upper
43 100
58 36.4 27.8 41.6





#17

Carbon Disulfide

Concen: 0.29 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

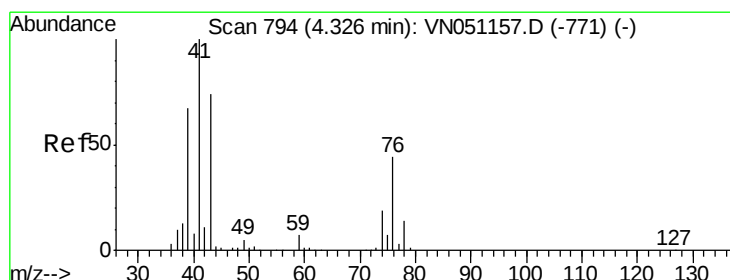
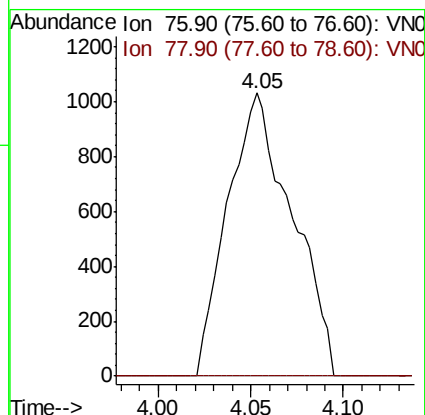
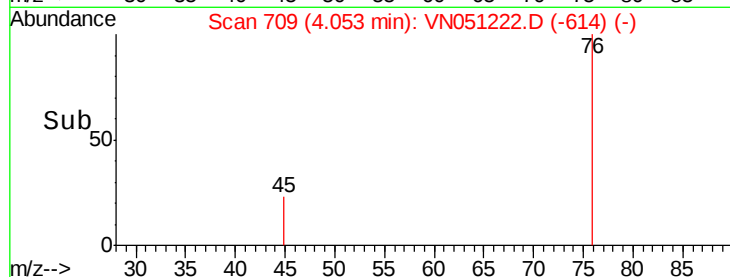
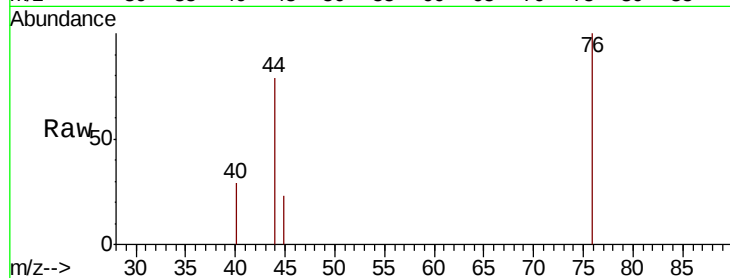
ClientSampleId :

Tot Ion: 76 Resp: 2490

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 2.44 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051222.D

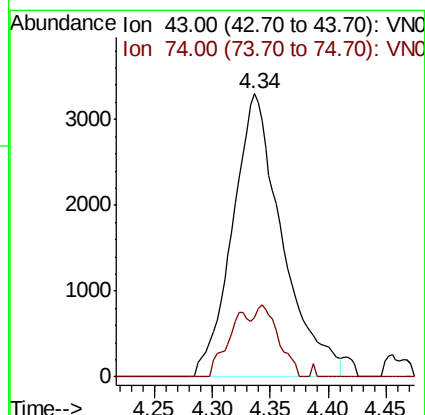
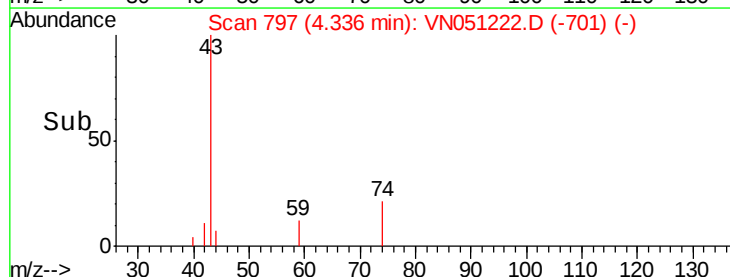
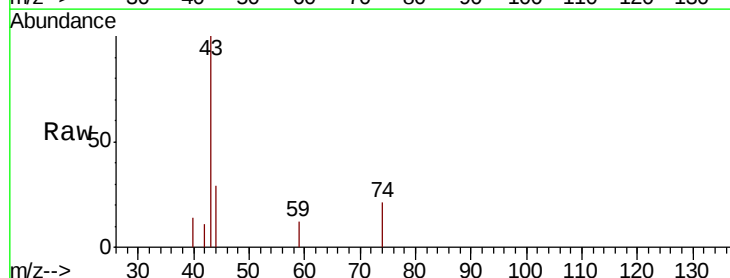
Acq: 15 Sep 2018 15:06

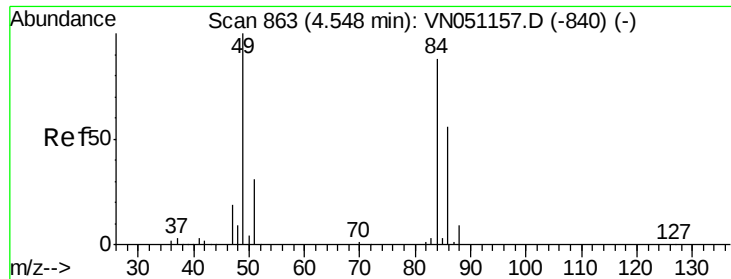
Tgt Ion: 43 Resp: 9814

Ion Ratio Lower Upper

43 100

74 10.7 20.7 31.1#

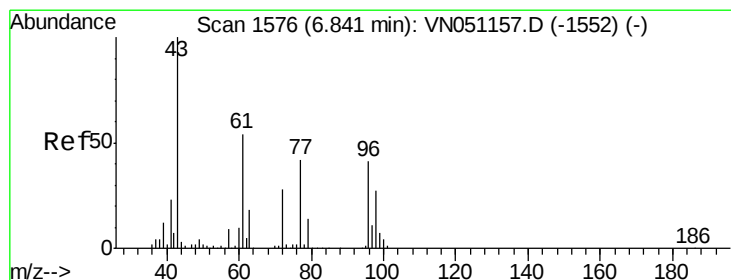
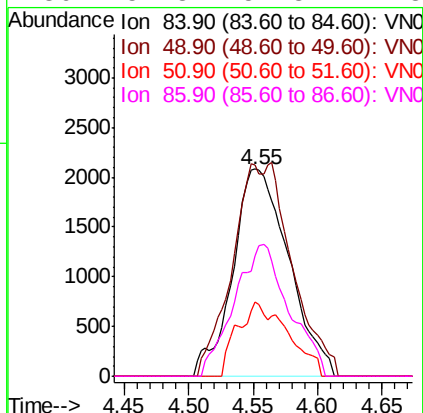
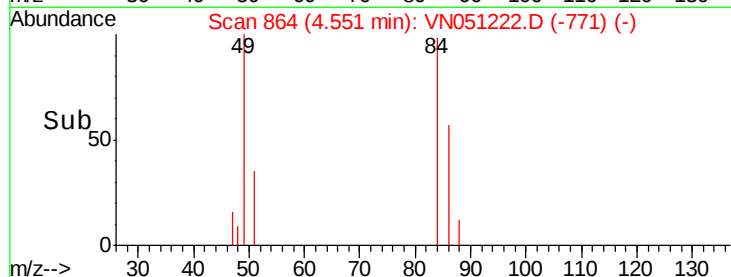
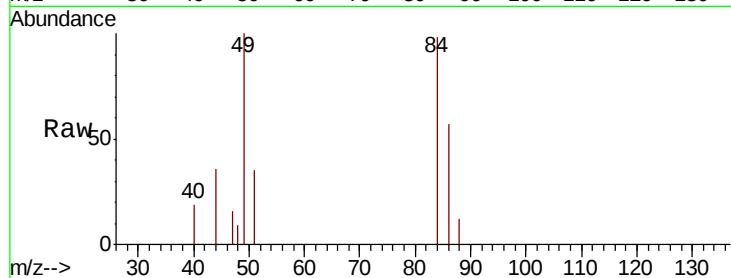




#20
Methvlene Chloride
Concen: 1.14 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051222.D
Acq: 15 Sep 2018 15:06

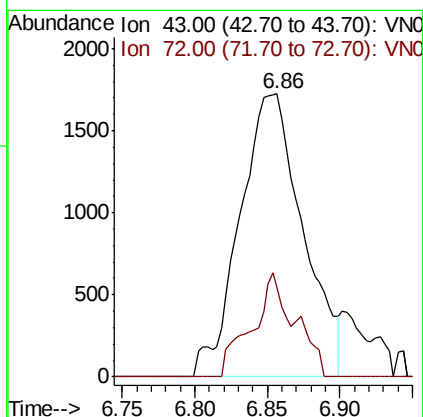
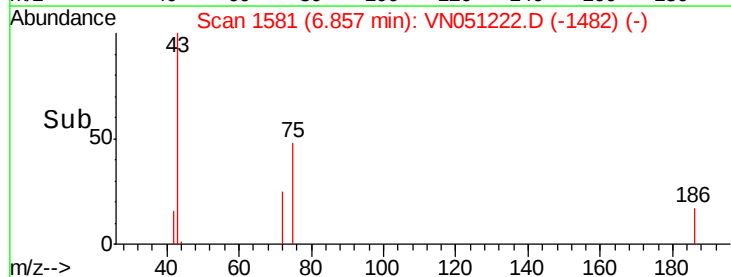
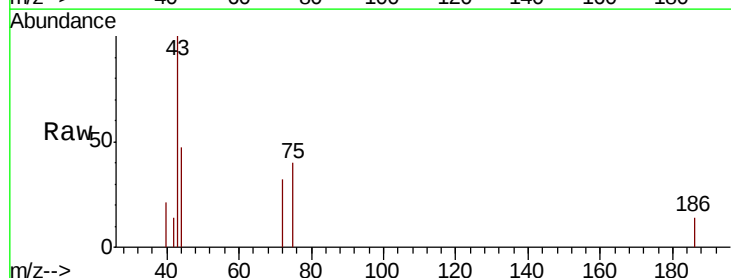
Instrument :
MSVOA_N
ClientSampleId :

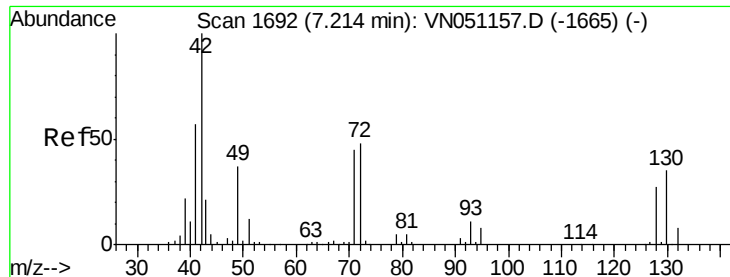
Tot Ion:	84	Resp:	6293
Ion	Ratio	Lower	Upper
84	100		
49	101.9	90.2	135.2
51	35.7	28.4	42.6
86	57.8	51.8	77.8



#25
2-Butanone
Concen: 2.64 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051222.D
Acq: 15 Sep 2018 15:06

Tgt Ion:	43	Resp:	5212
Ion	Ratio	Lower	Upper
43	100		
72	31.8	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.40 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

ClientSampled :

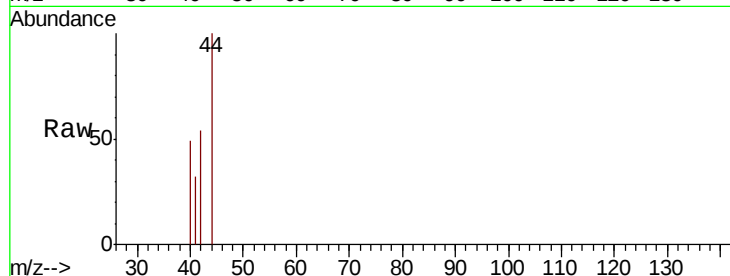
Tot Ion: 42 Resp: 492

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

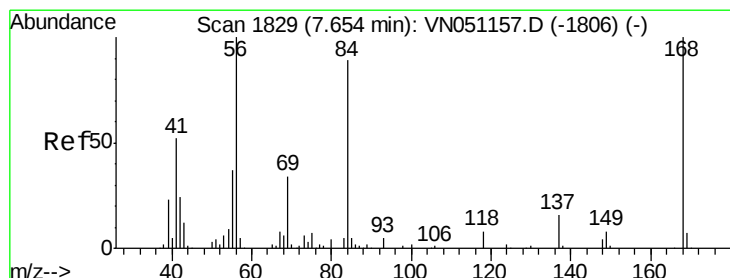
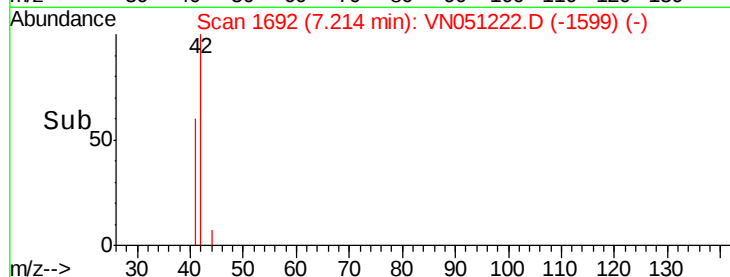
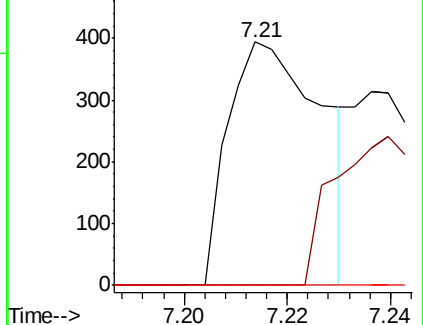
71 0.0 34.7 52.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.63 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

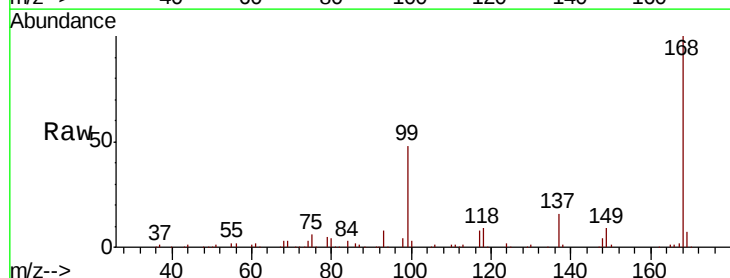
Tgt Ion: 56 Resp: 7039

Ion Ratio Lower Upper

56 100

69 199.0 26.3 39.5#

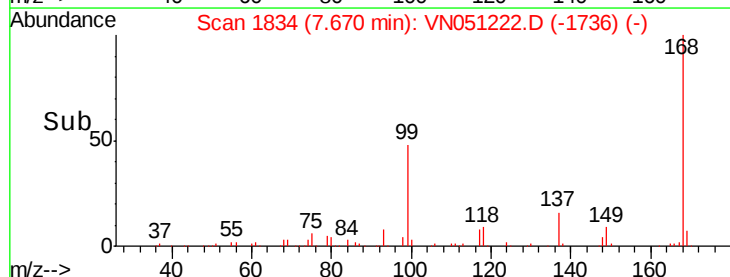
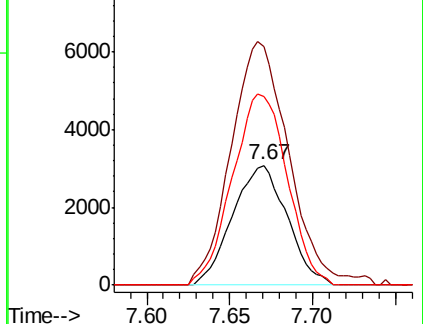
84 157.1 69.4 104.0#

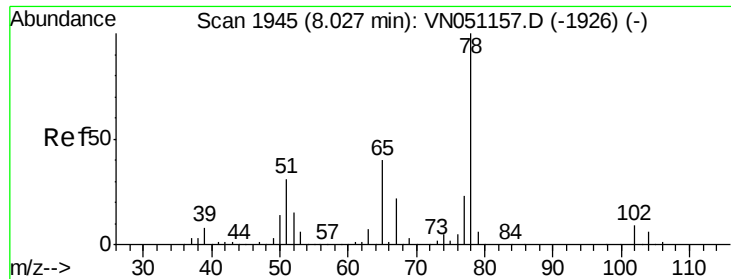


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

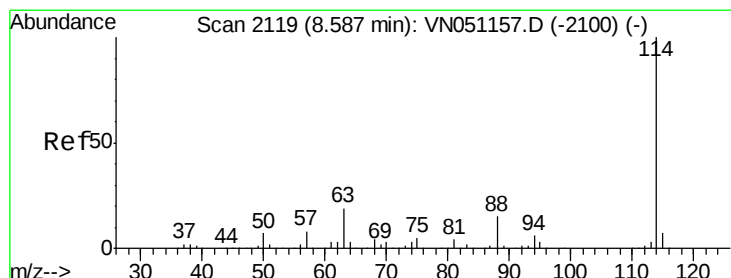
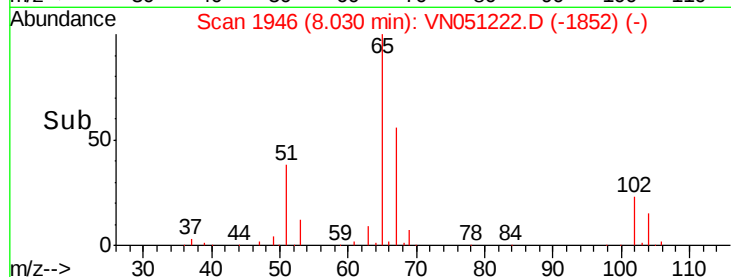
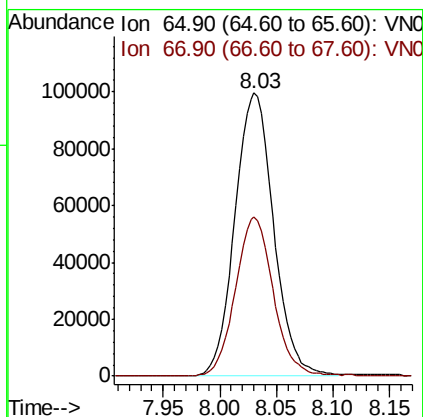
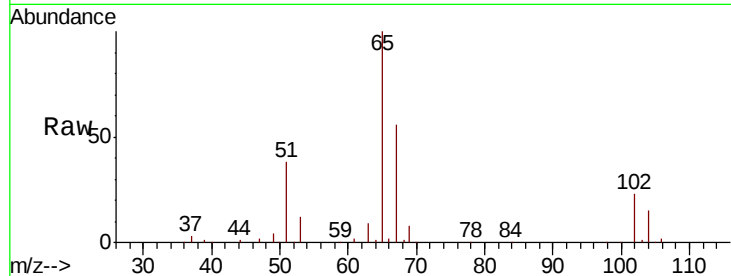




#33
 1,2-Dichloroethane-d4
 Concen: 47.35 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051222.D
 Acq: 15 Sep 2018 15:06

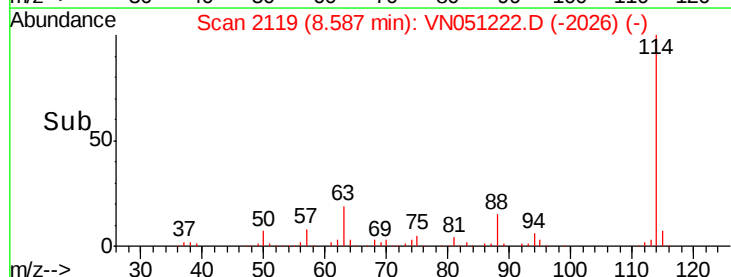
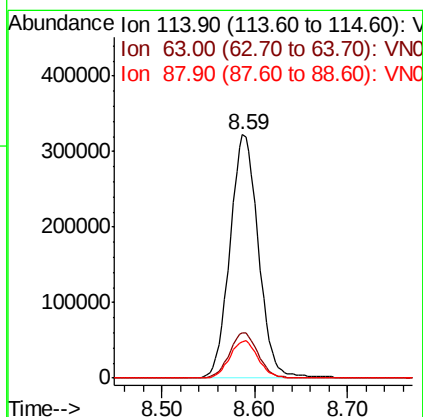
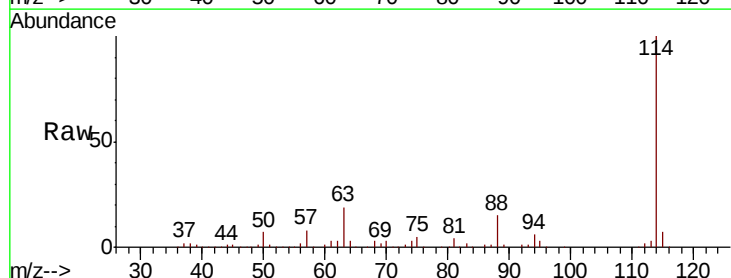
Instrument :
 MSVOA_N
 ClientSampled :

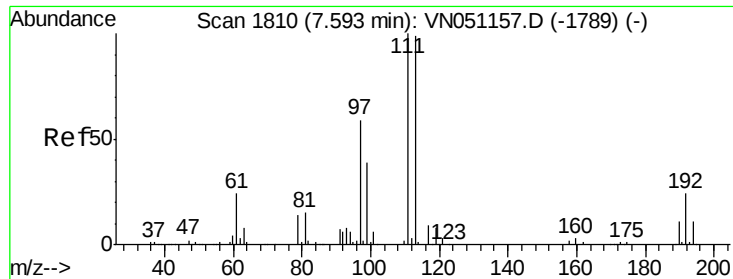
Tot Ion: 65 Resp: 237503
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051222.D
 Acq: 15 Sep 2018 15:06

Tgt Ion: 114 Resp: 687414
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 37.8
 88 15.1 0.0 30.8

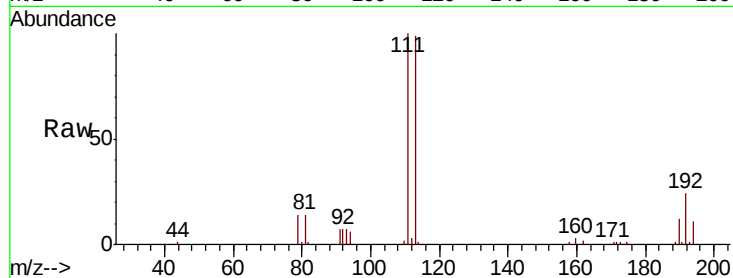




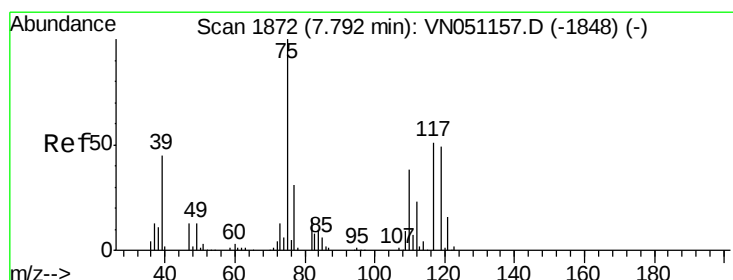
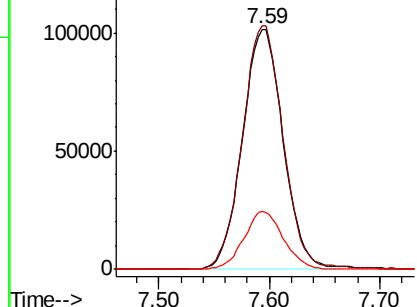
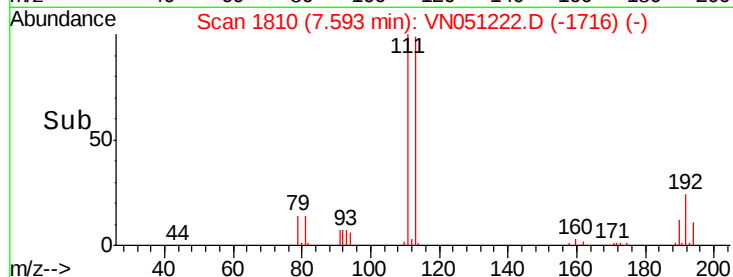
#35
 Dibromofluoromethane
 Concen: 50.23 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051222.D
 Acq: 15 Sep 2018 15:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.0	124.6
192	23.4	18.7	28.1

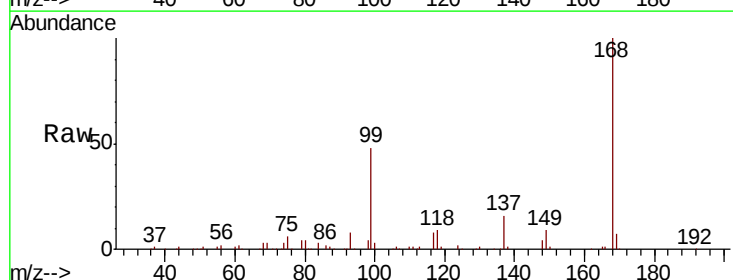


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

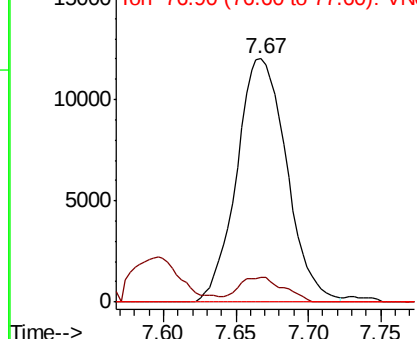
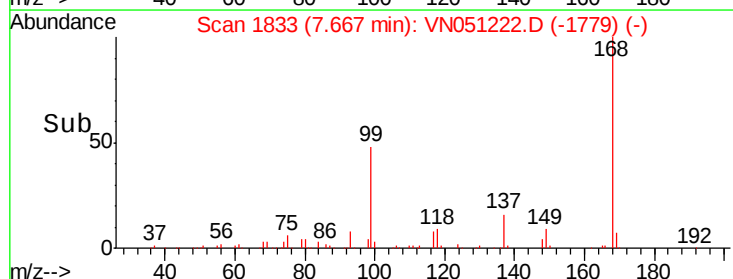


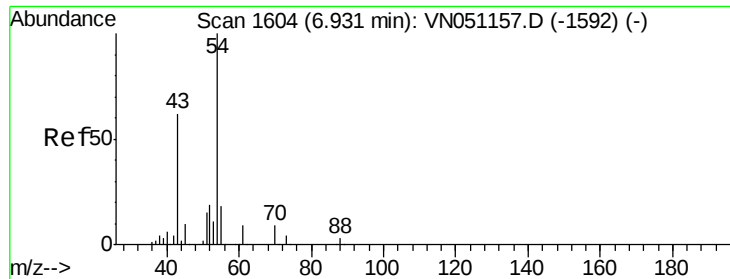
#36
 1,1-Dichloropropene
 Concen: 3.81 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051222.D
 Acq: 15 Sep 2018 15:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.6	55.8#
77	0.0	25.2	37.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 1.19 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. -0.07 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

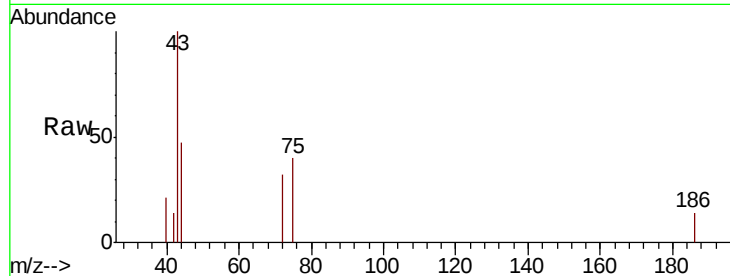
Tot Ion: 43 Resp: 5212

Ion Ratio Lower Upper

43 100

61 0.0 12.4 18.6#

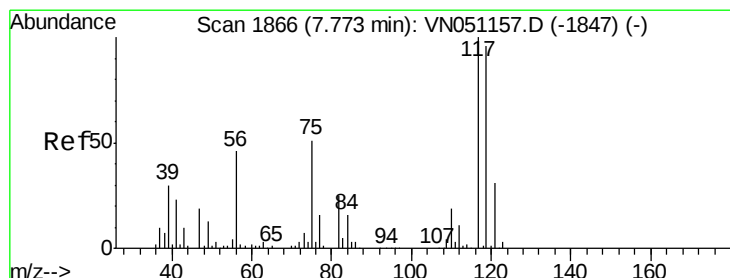
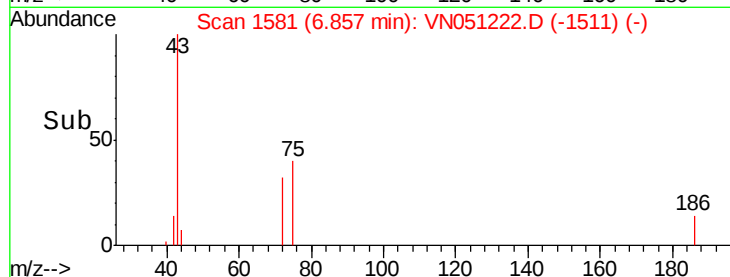
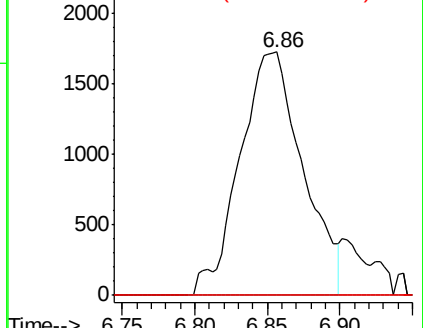
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051157.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051157.D (-1592) (-)



#38

Carbon Tetrachloride

Concen: 5.21 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

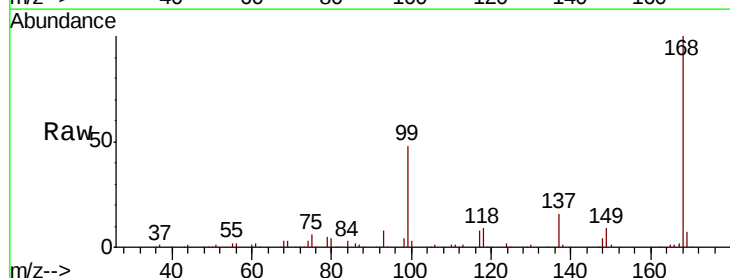
Tgt Ion: 117 Resp: 38679

Ion Ratio Lower Upper

117 100

119 5.4 76.8 115.2#

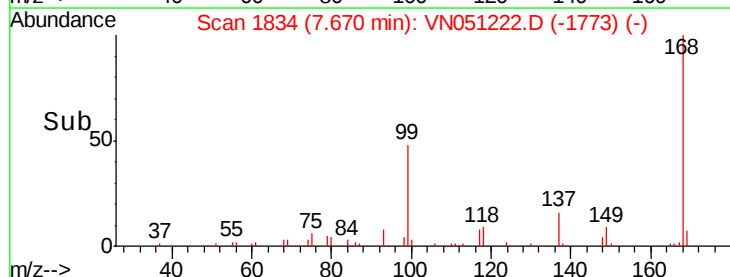
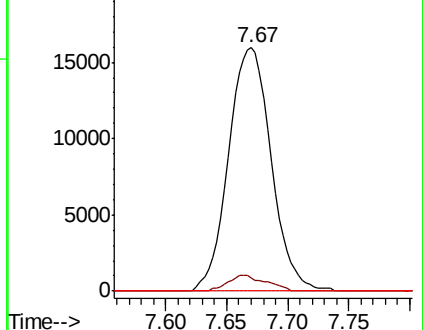
121 0.0 24.6 36.8#

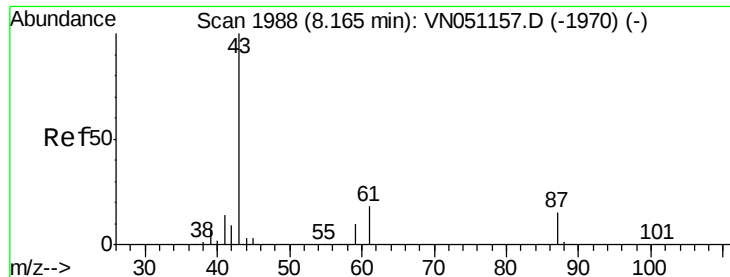


Abundance Ion 116.80 (116.50 to 117.50): VN051157.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN051157.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN051157.D (-1847) (-)



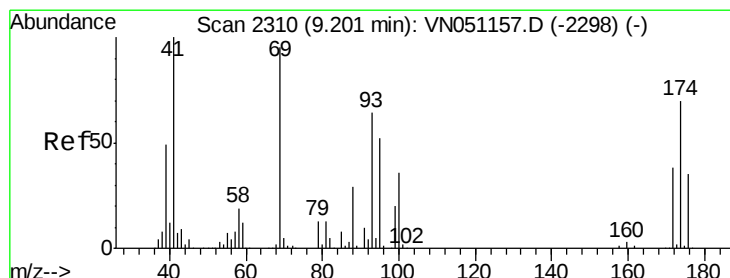
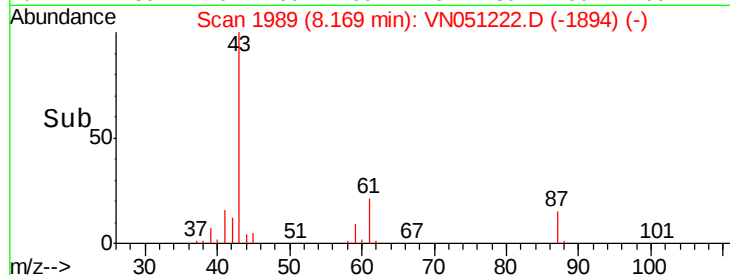
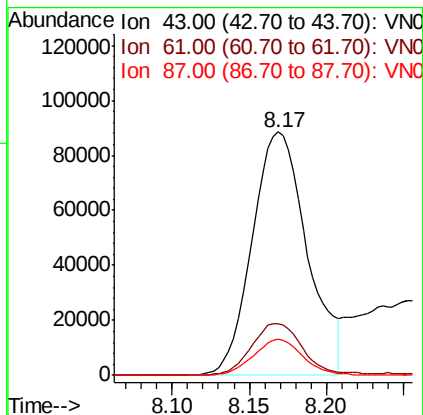
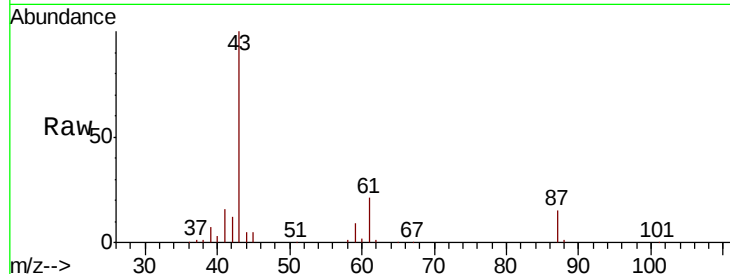


#43

Isopropyl Acetate
 Concen: 28.50 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.01 min
 Lab File: VN051222.D
 Acq: 15 Sep 2018 15:06

Instrument :
 MSVOA_N
 ClientSampled :

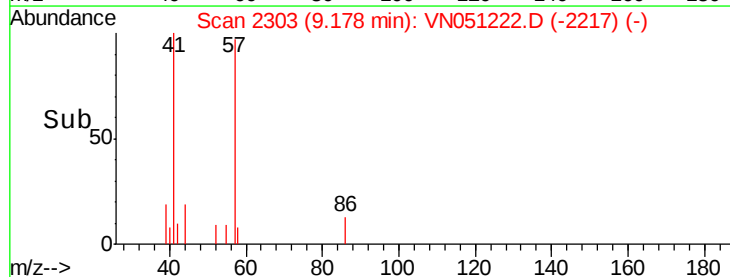
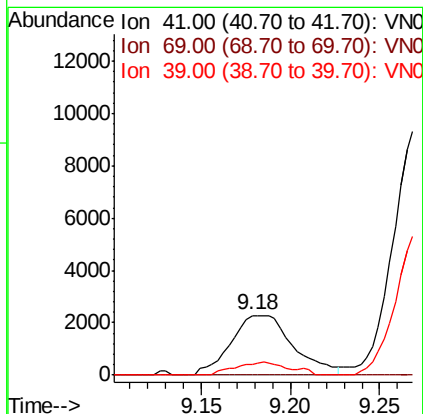
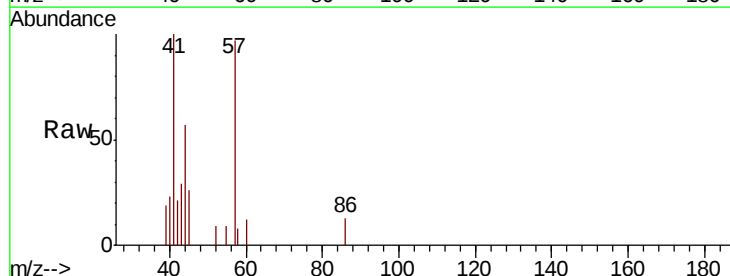
Tot Ion: 43 Resp: 219804
 Ion Ratio Lower Upper
 43 100
 61 20.0 25.0 37.6#
 87 13.5 11.8 17.8

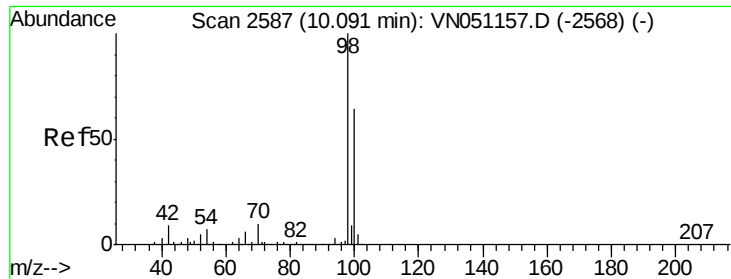


#48

Methyl methacrylate
 Concen: 1.48 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN051222.D
 Acq: 15 Sep 2018 15:06

Tgt Ion: 41 Resp: 5563
 Ion Ratio Lower Upper
 41 100
 69 0.0 77.7 116.5#
 39 19.0 41.6 62.4#





#50

Toluene-d8

Concen: 44.52 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

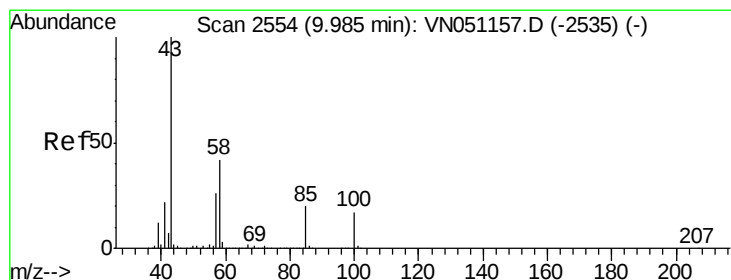
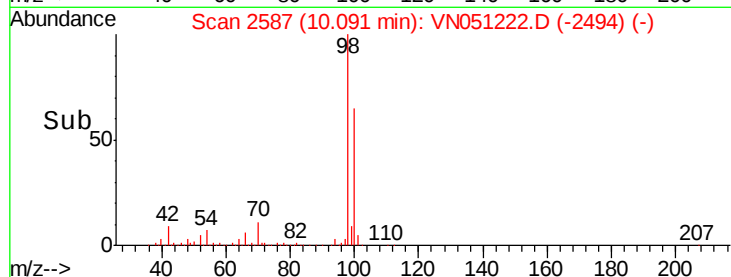
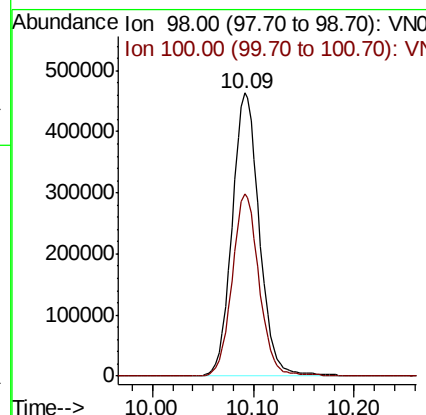
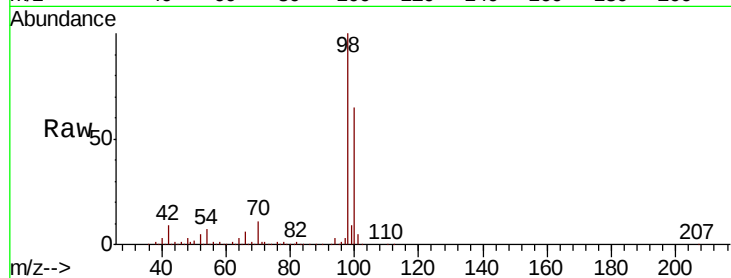
ClientSampled :

Tot Ion: 98 Resp: 872689

Ion Ratio Lower Upper

98 100

100 63.6 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051222.D

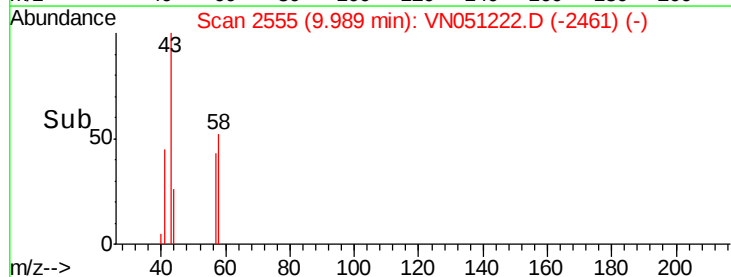
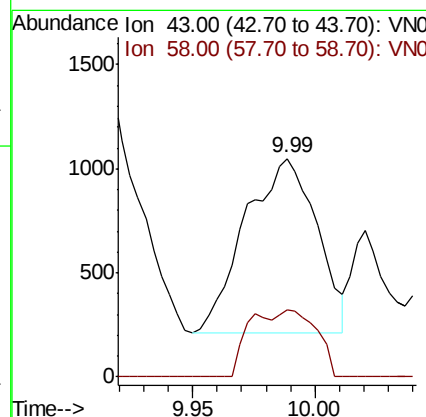
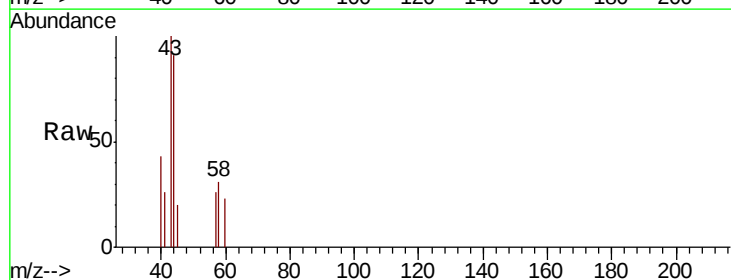
Acq: 15 Sep 2018 15:06

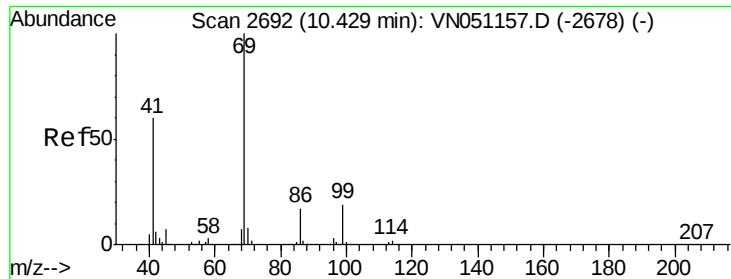
Tgt Ion: 43 Resp: 1718

Ion Ratio Lower Upper

43 100

58 35.0 33.5 50.3





#56

Ethyl methacrylate

Concen: 2.65 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

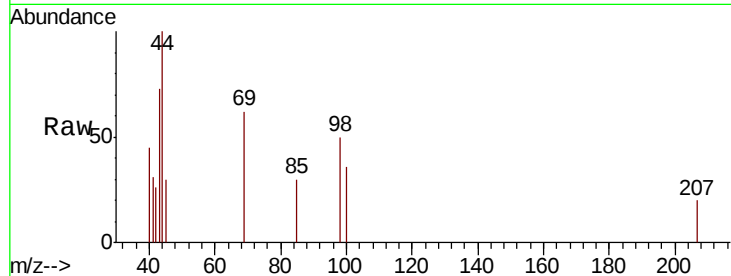
Tot Ion: 69 Resp: 1395

Ion Ratio Lower Upper

69 100

41 47.8 47.8 71.8#

39 0.0 23.0 34.4#

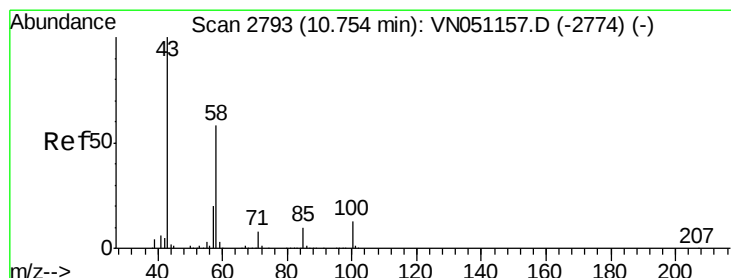
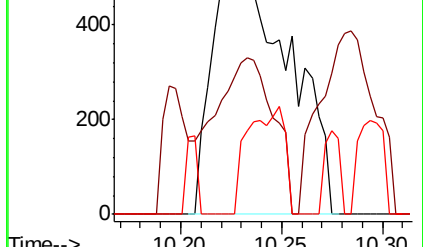
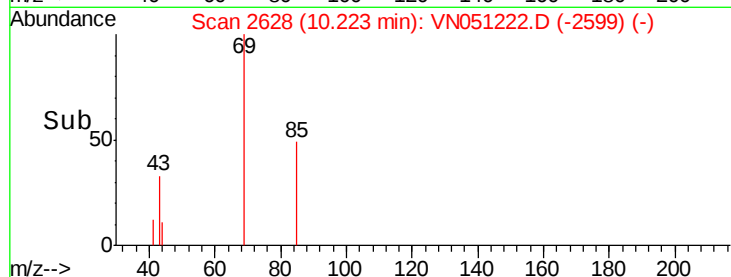


Abundance Ion 69.00 (68.70 to 69.70): VN051157.D (-2678) (-)

Ion 41.00 (40.70 to 41.70): VN051157.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2678) (-)

Time-->



#59

2-Hexanone

Concen: 4.66 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051222.D

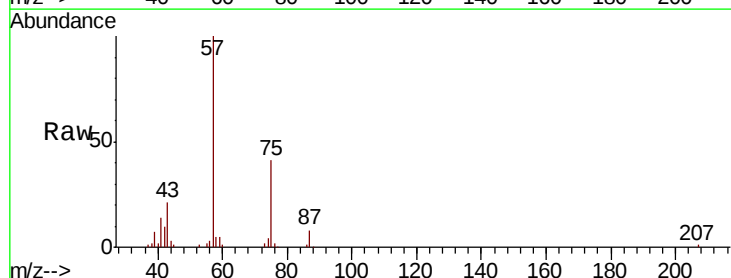
Acq: 15 Sep 2018 15:06

Tgt Ion: 43 Resp: 13469

Ion Ratio Lower Upper

43 100

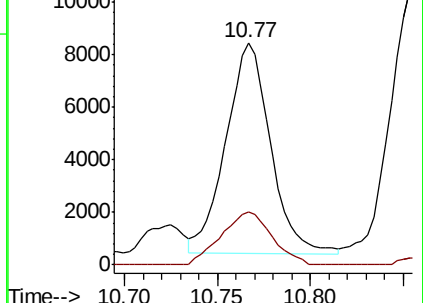
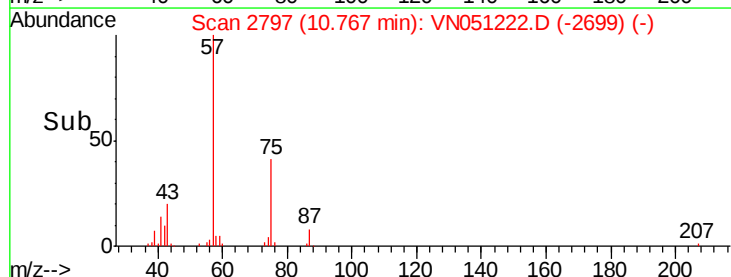
58 28.2 29.3 88.0#

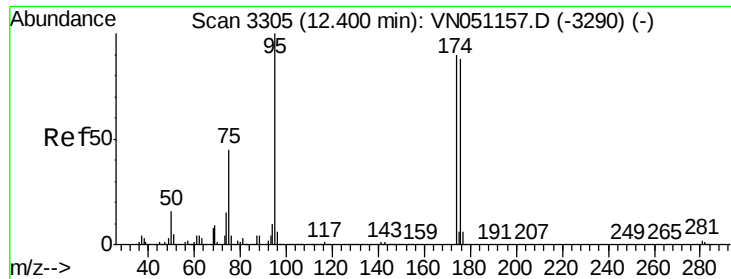


Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2774) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2774) (-)

Time-->

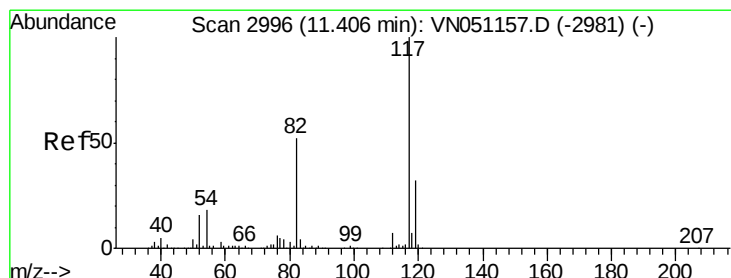
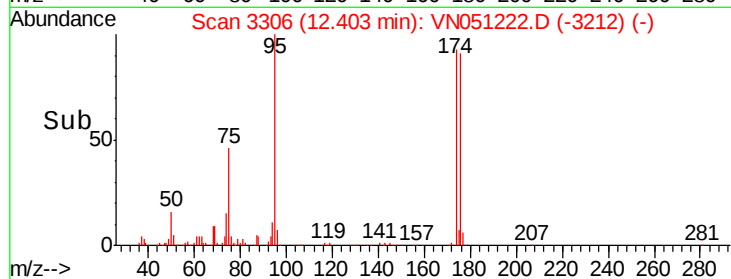
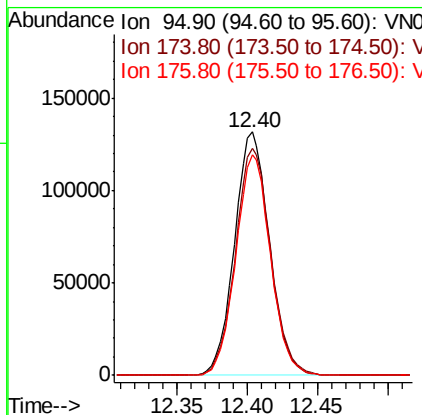
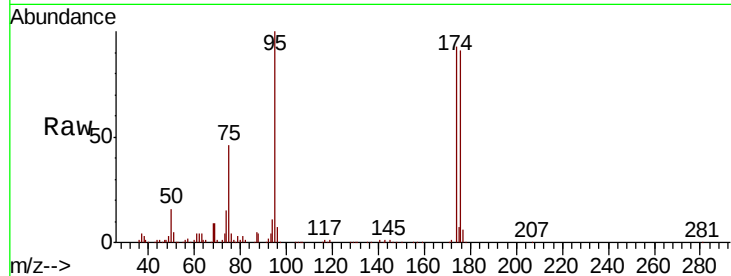




#62
4-Bromofluorobenzene
Concen: 35.19 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051222.D
Acq: 15 Sep 2018 15:06

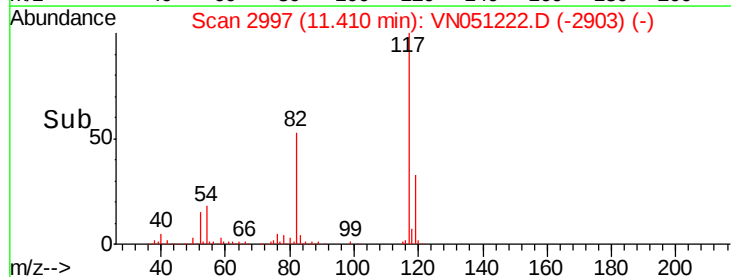
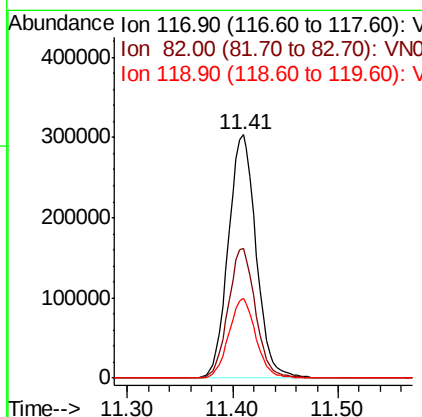
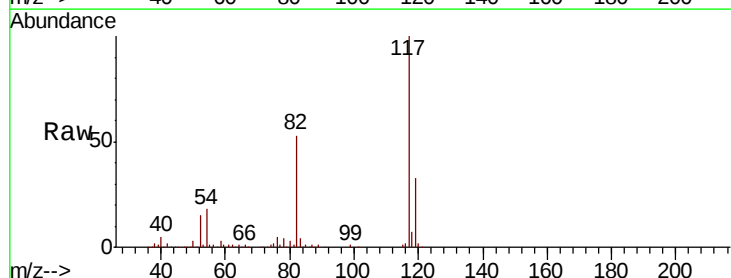
Instrument :
MSVOA_N
ClientSampleId :

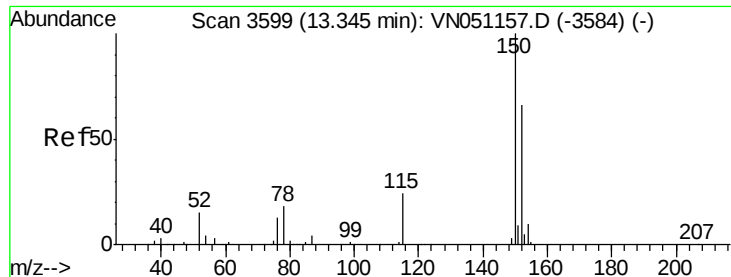
Tot Ion	Ratio	Lower	Upper
95	100		
174	94.7	0.0	184.8
176	90.1	0.0	178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051222.D
Acq: 15 Sep 2018 15:06

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.0	41.8	62.6
119	32.6	26.2	39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

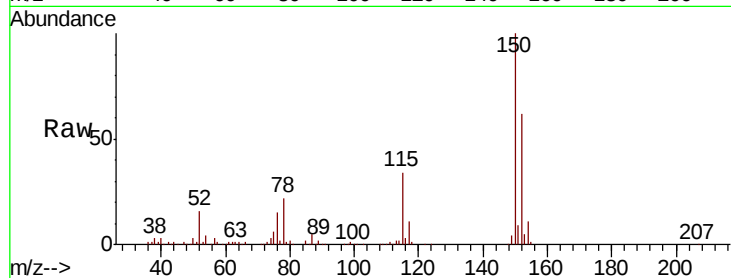
Tot Ion:152 Resp: 164449

Ion Ratio Lower Upper

152 100

115 55.4 28.2 84.7

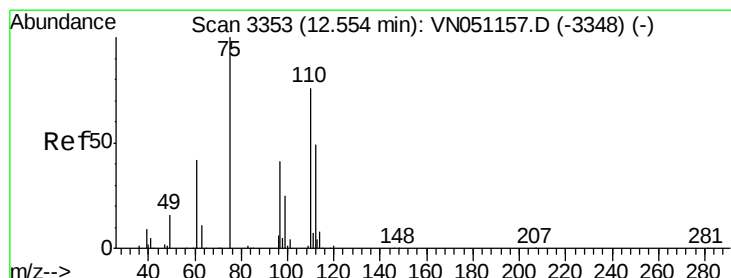
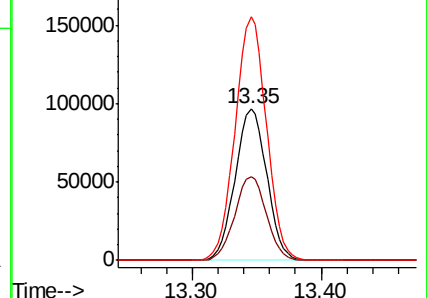
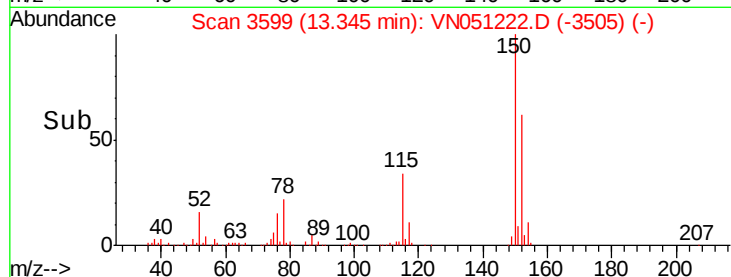
150 159.4 0.0 349.0



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: 40.99 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051222.D

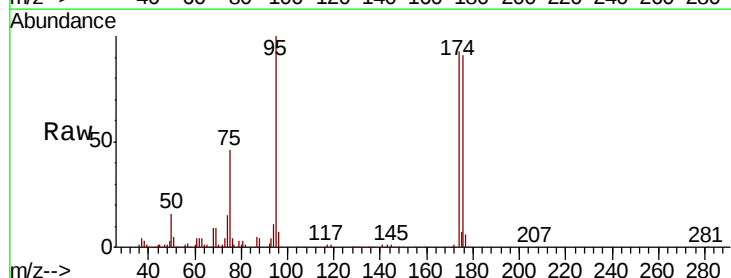
Acq: 15 Sep 2018 15:06

Tgt Ion: 75 Resp: 105184

Ion Ratio Lower Upper

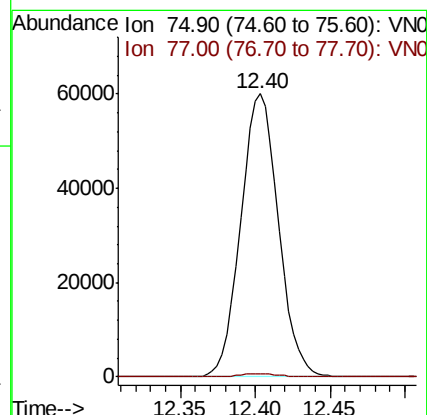
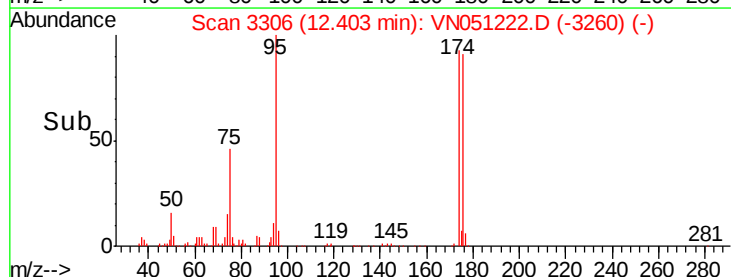
75 100

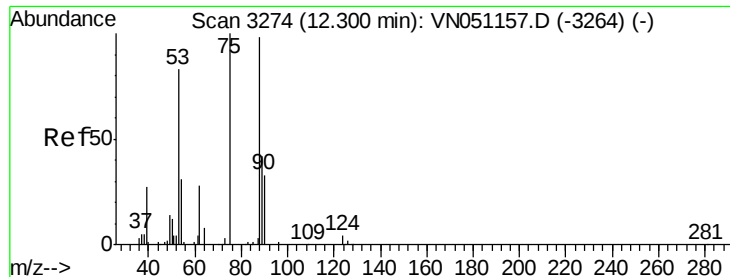
77 1.2 0.0 0.0#



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: 121.47 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

ClientSampled :

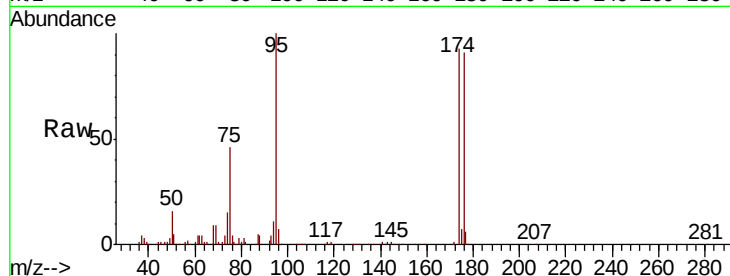
Tot Ion: 75 Resp: 105184

Ion Ratio Lower Upper

75 100

53 0.2 67.8 101.8#

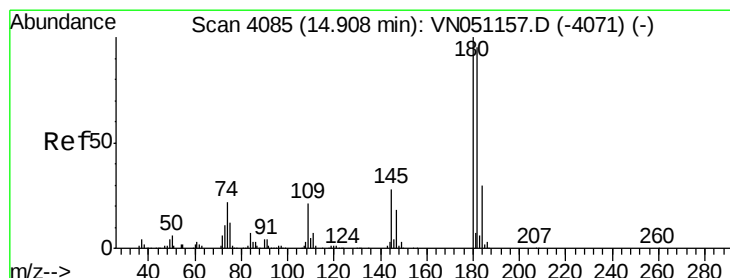
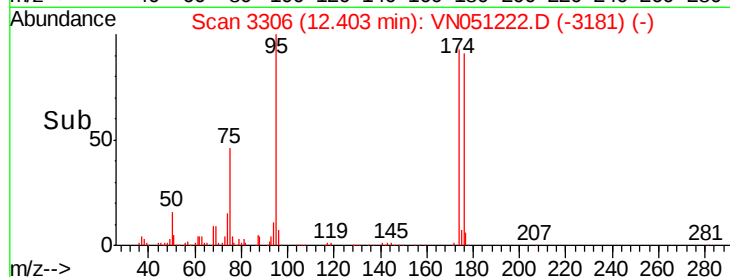
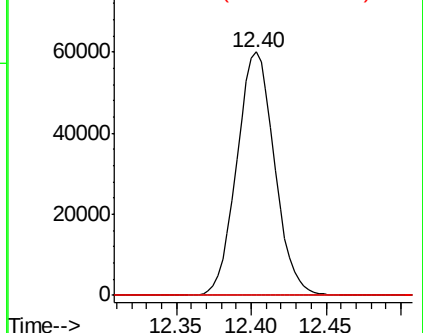
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN051157.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN051157.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.03 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

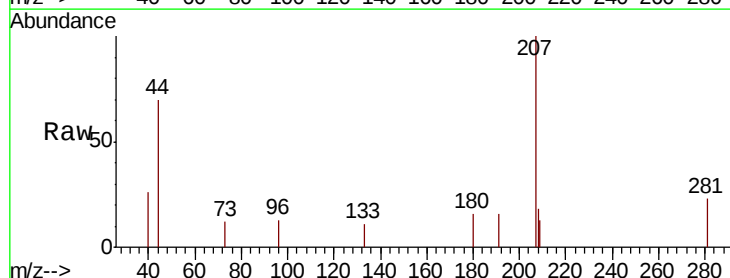
Tgt Ion: 180 Resp: 152

Ion Ratio Lower Upper

180 100

182 85.5 47.3 141.8

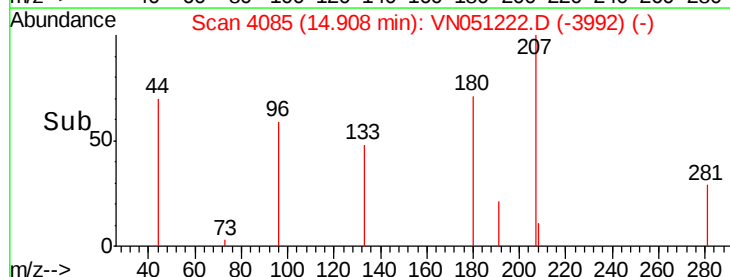
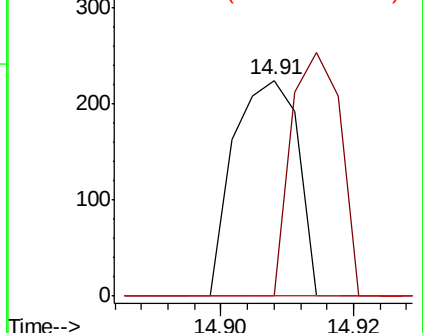
145 0.0 14.2 42.6#

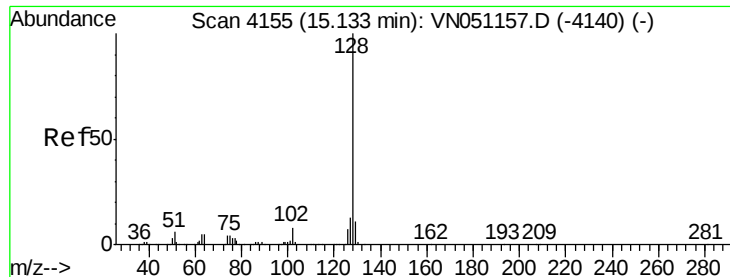


Abundance Ion 179.80 (179.50 to 180.50): VN051157.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN051157.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN051157.D (-4071) (-)





#95

Naphthalene

Concen: 5.43 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

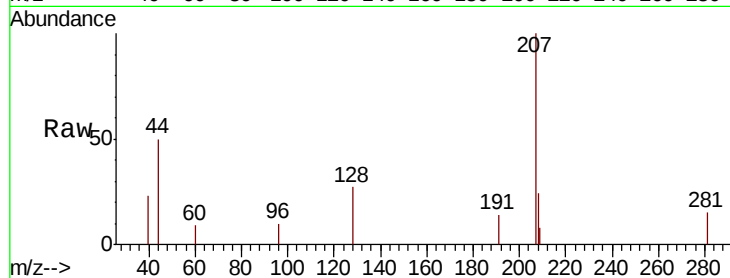
Tot Ion:128 Resp: 623

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#



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

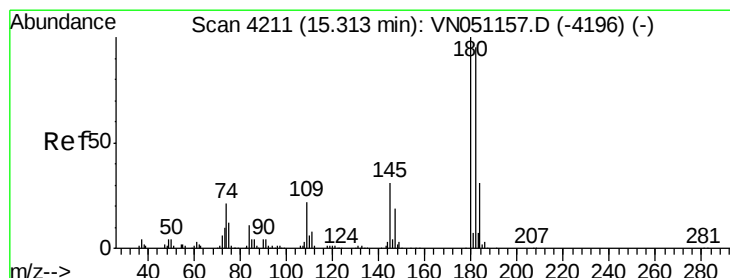
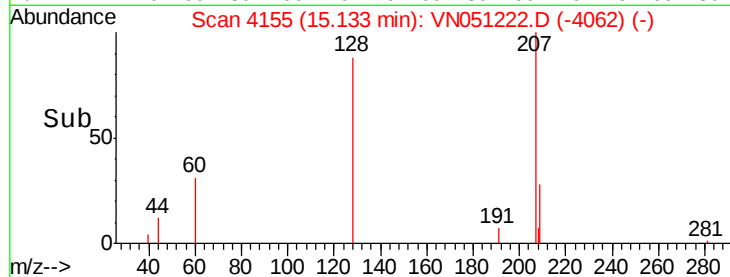
15.13

400

200

0

Time--> 15.10 15.12 15.14 15.16



#96

1,2,3-Trichlorobenzene

Concen: 3.04 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN051222.D

Acq: 15 Sep 2018 15:06

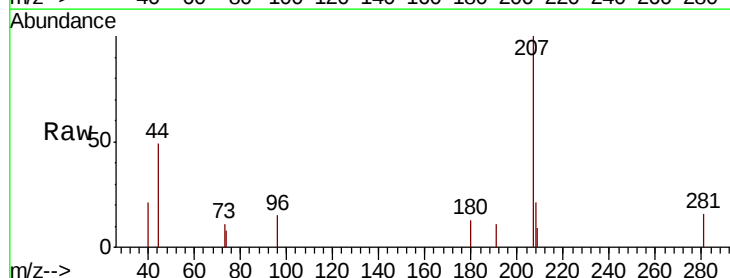
Tgt Ion:180 Resp: 290

Ion Ratio Lower Upper

180 100

182 21.0 47.8 143.3#

145 0.0 14.6 43.8#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

15.31

300

200

100

0

Time--> 15.30 15.32

