

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050523.D
 Acq On : 10 Aug 2018 17:26
 Operator : MD\SY
 Sample : J4397-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Quant Time: Aug 10 23:17:58 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	716443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1137663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	933473	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	337617	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	474820	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
35) Dibromofluoromethane	7.59	113	432654	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	10.09	98	1542844	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	
62) 4-Bromofluorobenzene	12.40	95	413928	35.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.78%	

Target Compounds

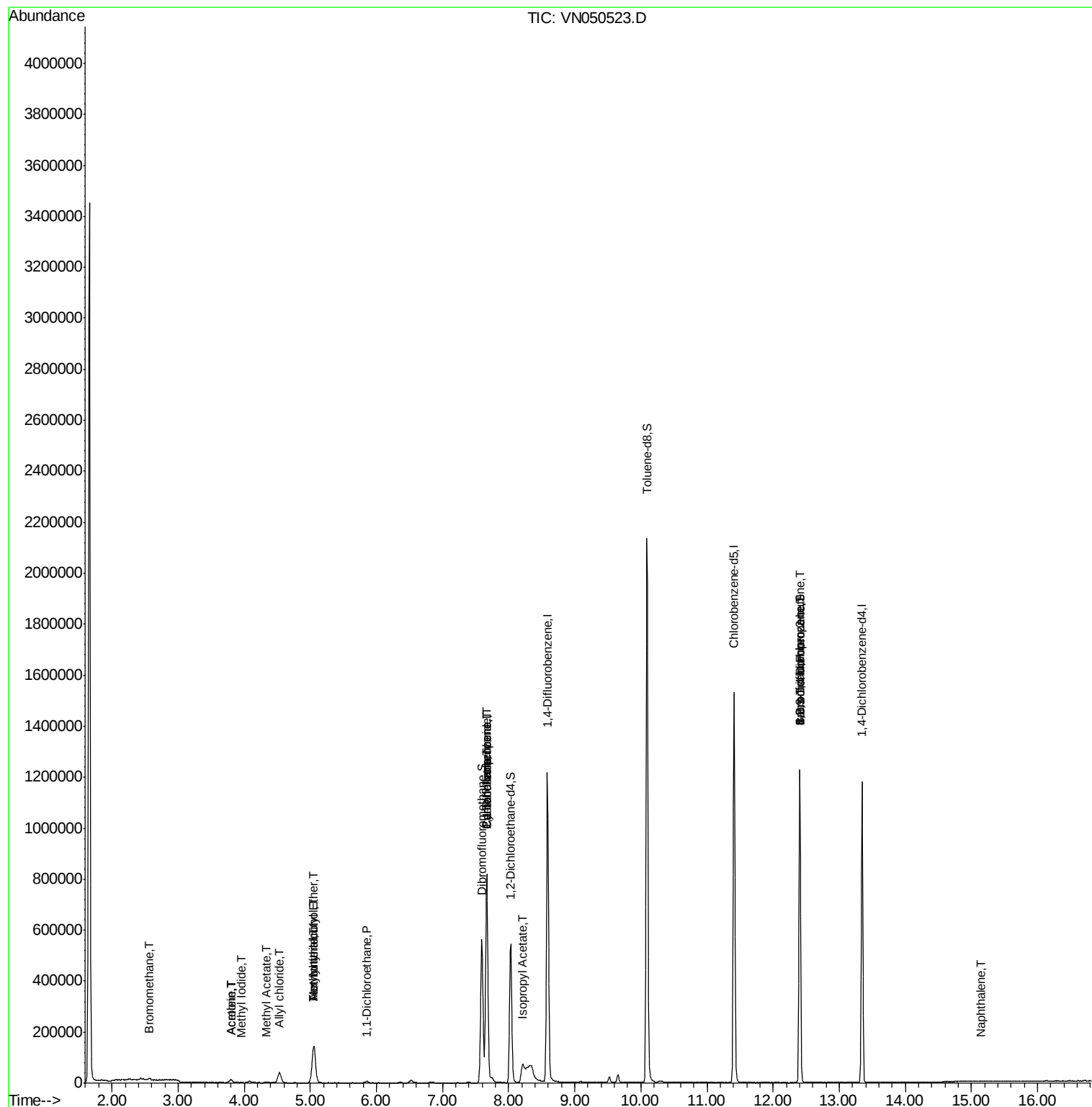
						Qvalue
3) Chloromethane	2.06	50	3180	Below Cal		92
5) Bromomethane	2.57	94	3979	0.96 ug/l		92
10) Methyl Iodide	3.96	142	959	0.26 ug/l #		42
11) Tert butyl alcohol	5.04	59	475	0.62 ug/l #		1
13) Acrolein	3.79	56	2828	17.69 ug/l		83
14) Allyl chloride	4.53	41	18216	1.46 ug/l #		58
15) Acrylonitrile	5.05	53	2485	0.77 ug/l #		7
16) Acetone	3.81	43	9793	3.08 ug/l #		56
18) Methyl Acetate	4.34	43	6196	0.64 ug/l		98
19) Methyl tert-butyl Ether	5.05	73	238779	10.86 ug/l		100
20) Methylene Chloride	4.56	84	5569	Below Cal #		82
24) 1,1-Dichloroethane	5.85	63	9184	0.59 ug/l #		94
31) Cyclohexane	7.67	56	12372	0.28 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	49177	3.93 ug/l #		48
38) Carbon Tetrachloride	7.67	117	62580	4.80 ug/l #		17
43) Isopropyl Acetate	8.22	43	39719	2.56 ug/l #		61
71) Bromoform	12.40	173	3526	0.57 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	200335	32.78 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	200335	115.18 ug/l #		13
95) Naphthalene	15.14	128	227	3.63 ug/l #		69

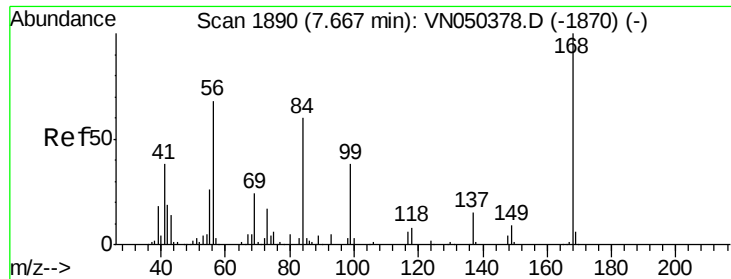
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

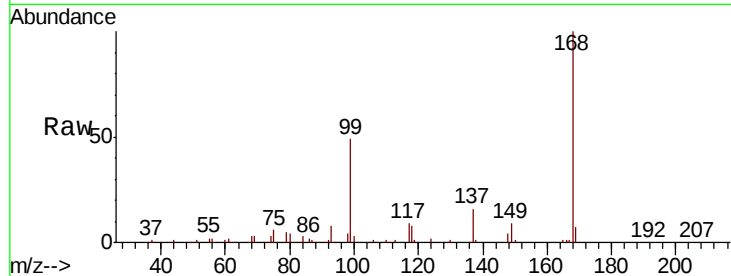
MW-7

Tot Ion:168 Resp: 716443

Ion Ratio Lower Upper

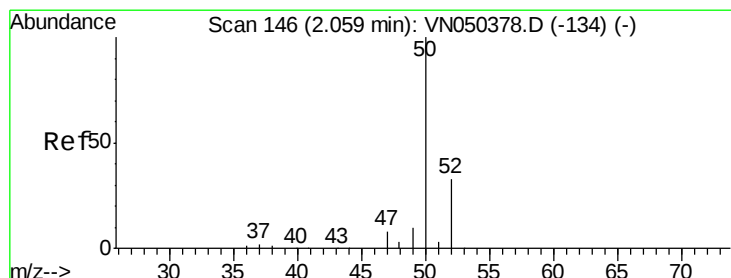
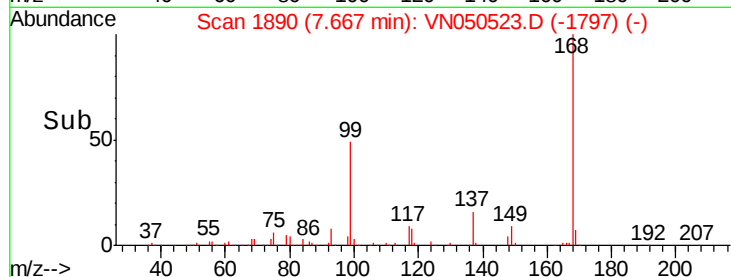
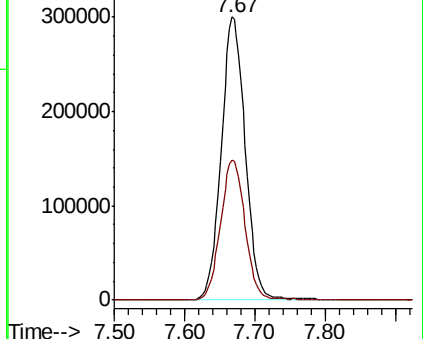
168 100

99 49.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050523.D

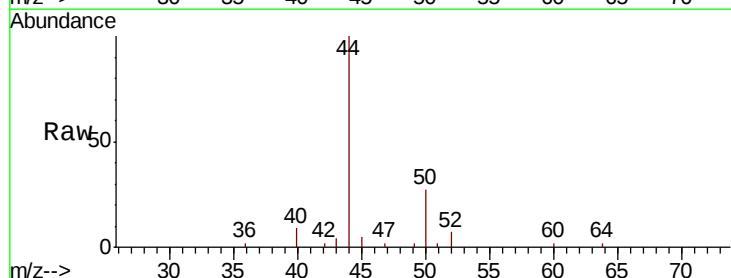
Acq: 10 Aug 2018 17:26

Tgt Ion: 50 Resp: 3180

Ion Ratio Lower Upper

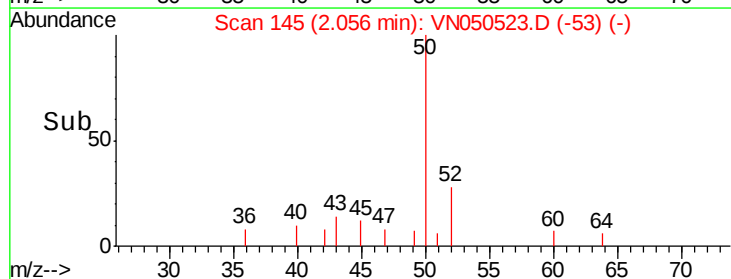
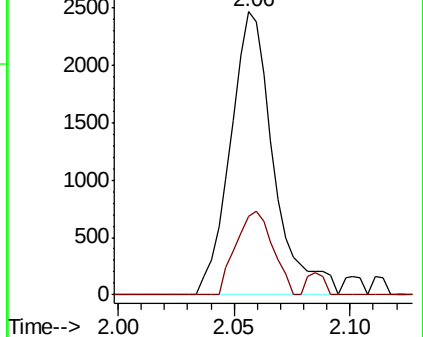
50 100

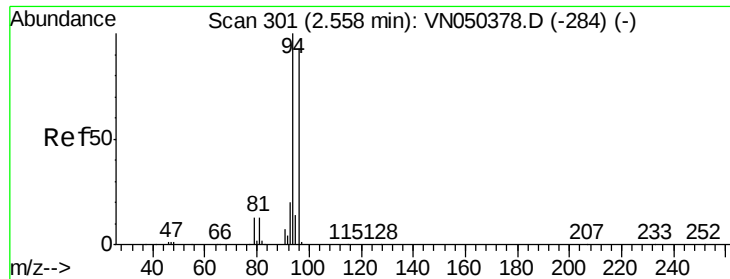
52 27.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#5

Bromomethane

Concen: 0.96 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampled :

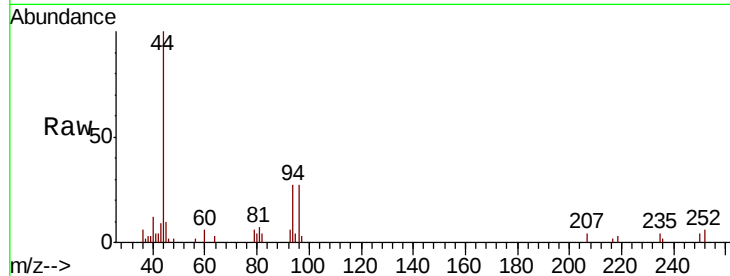
MW-7

Tot Ion: 94 Resp: 3979

Ion Ratio Lower Upper

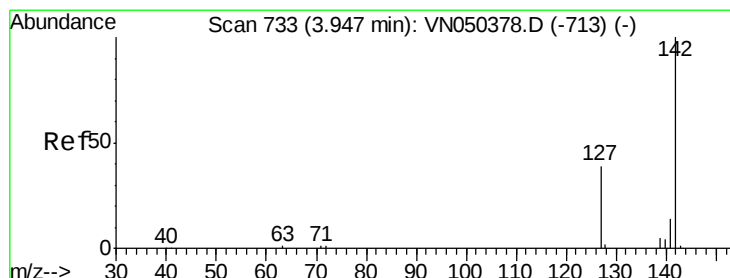
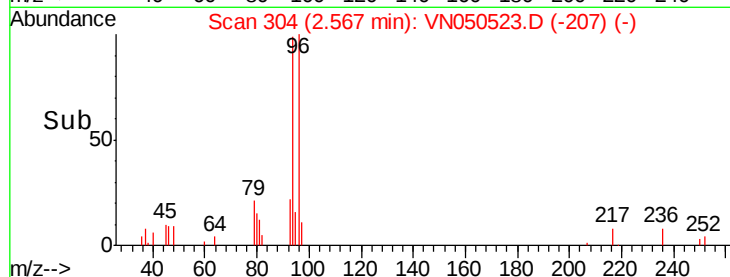
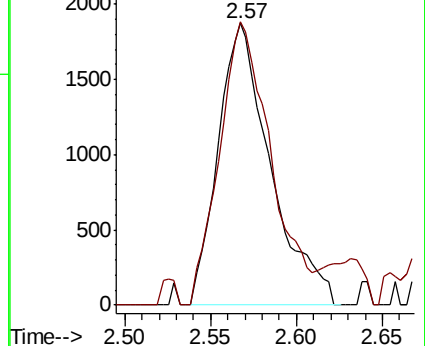
94 100

96 100.5 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050523.D (-207) (-)

Ion 95.90 (95.60 to 96.60): VN050523.D (-207) (-)



#10

Methyl Iodide

Concen: 0.26 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.01 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

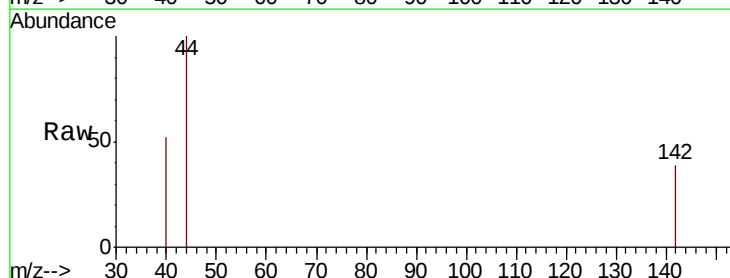
Tgt Ion: 142 Resp: 959

Ion Ratio Lower Upper

142 100

127 0.0 33.4 50.2#

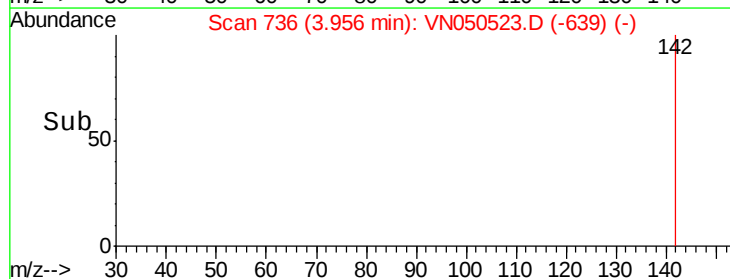
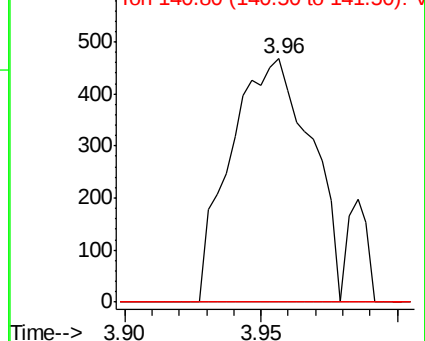
141 0.0 11.6 17.4#

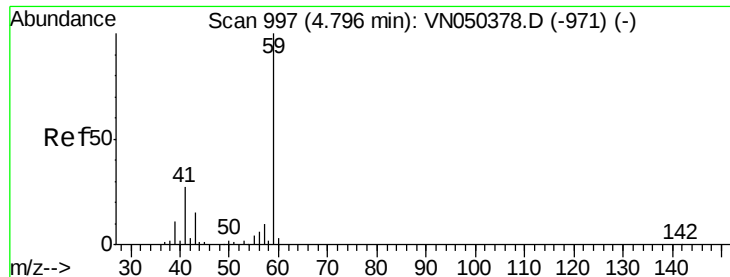


Abundance Ion 141.80 (141.50 to 142.50): VN050523.D (-639) (-)

Ion 126.80 (126.50 to 127.50): VN050523.D (-639) (-)

Ion 140.80 (140.50 to 141.50): VN050523.D (-639) (-)



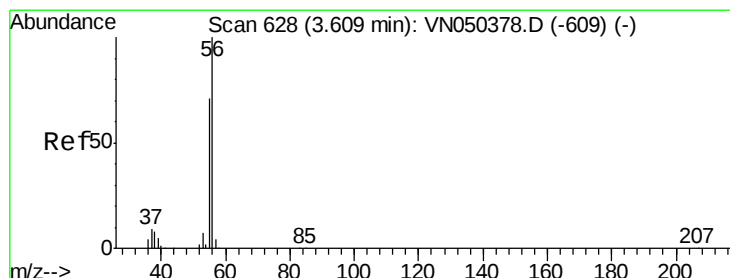
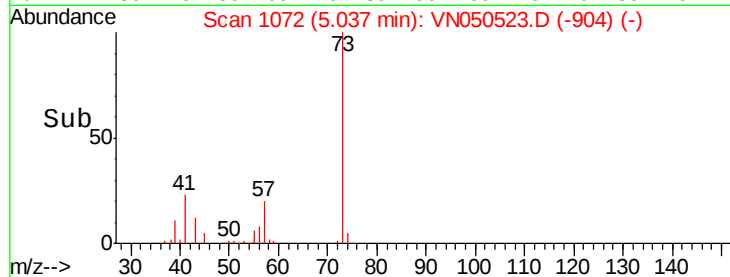
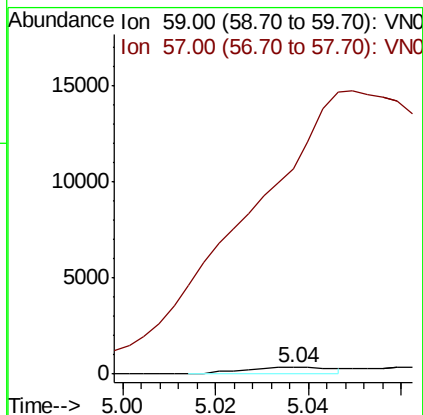
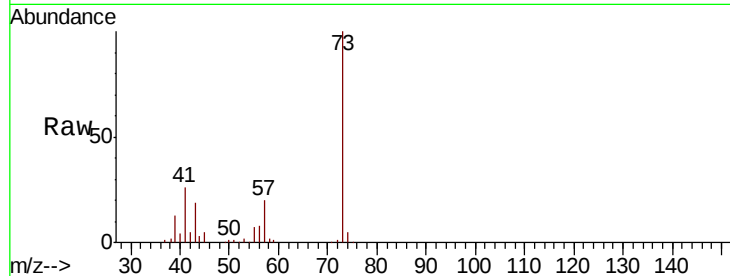


#11

Tert butyl alcohol
 Concen: 0.62 ug/l
 RT: 5.04 min Scan# 1072
 Delta R.T. 0.24 min
 Lab File: VN050523.D
 Acq: 10 Aug 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

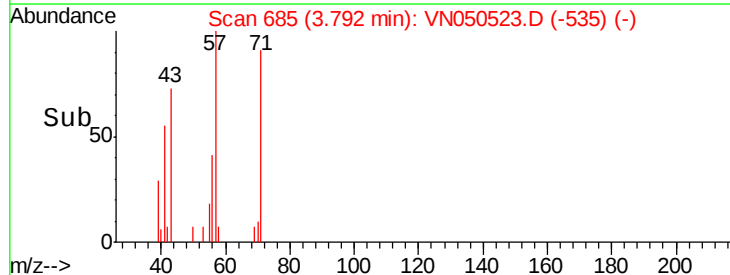
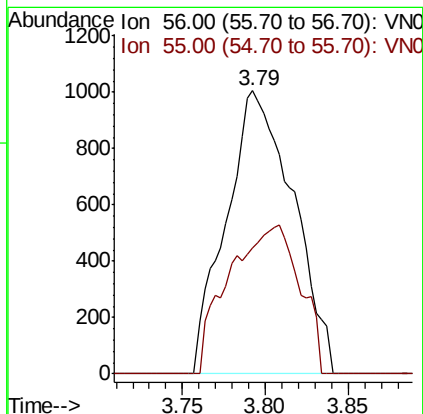
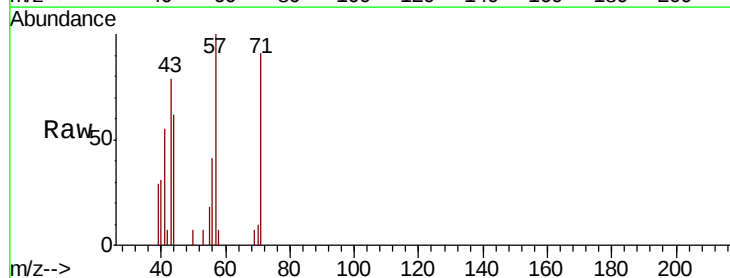
Tot Ion: 59 Resp: 475
 Ion Ratio Lower Upper
 59 100
 57 10080.4 8.5 12.7#

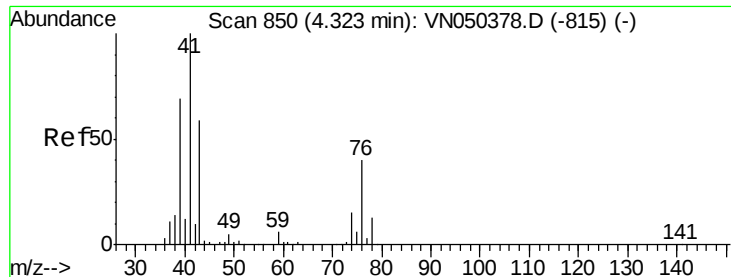


#13

Acrolein
 Concen: 17.69 ug/l
 RT: 3.79 min Scan# 685
 Delta R.T. 0.18 min
 Lab File: VN050523.D
 Acq: 10 Aug 2018 17:26

Tgt Ion: 56 Resp: 2828
 Ion Ratio Lower Upper
 56 100
 55 55.9 55.8 83.6





#14

Allvl chloride

Concen: 1.46 ug/l

RT: 4.53 min Scan# 913

Delta R.T. 0.20 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

MW-7

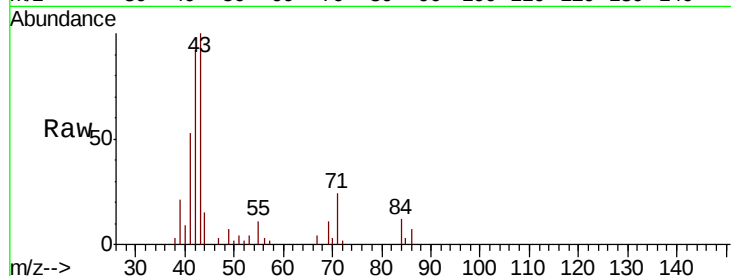
Tot Ion: 41 Resp: 18216

Ion Ratio Lower Upper

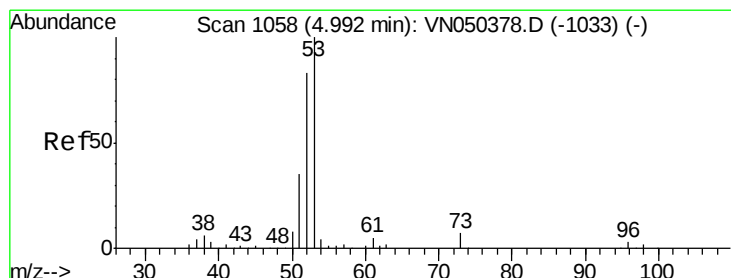
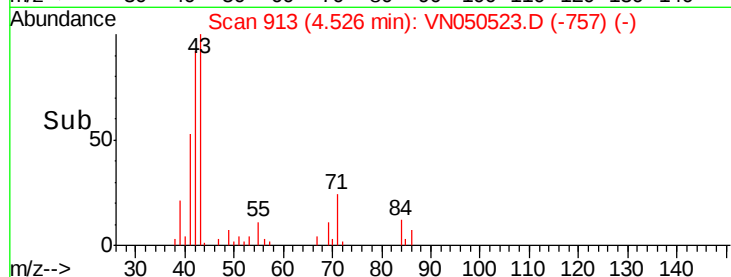
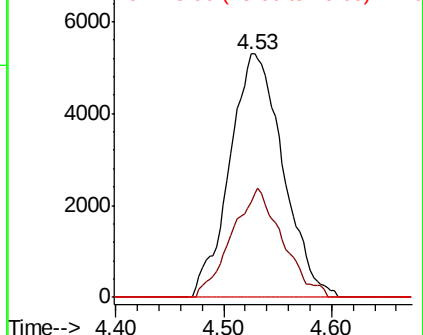
41 100

39 42.6 54.2 81.4#

76 0.0 29.0 43.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO



#15

Acrylonitrile

Concen: 0.77 ug/l

RT: 5.05 min Scan# 1076

Delta R.T. 0.06 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

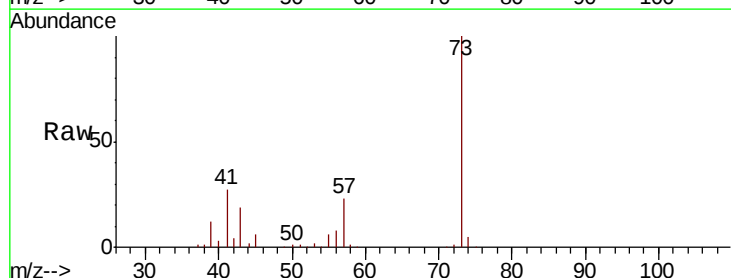
Tgt Ion: 53 Resp: 2485

Ion Ratio Lower Upper

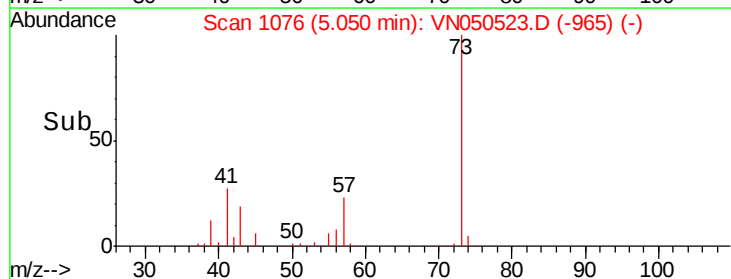
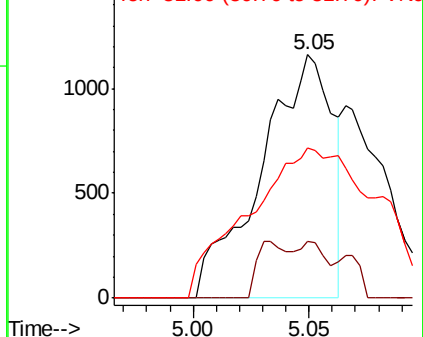
53 100

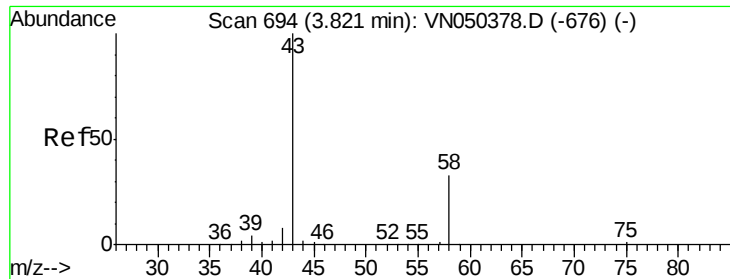
52 10.9 66.2 99.2#

51 109.5 29.3 43.9#



Abundance Ion 53.00 (52.70 to 53.70): VNO
Ion 52.00 (51.70 to 52.70): VNO
Ion 51.00 (50.70 to 51.70): VNO





#16

Acetone

Concen: 3.08 ug/l

RT: 3.81 min Scan# 689

Delta R.T. -0.02 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampled :

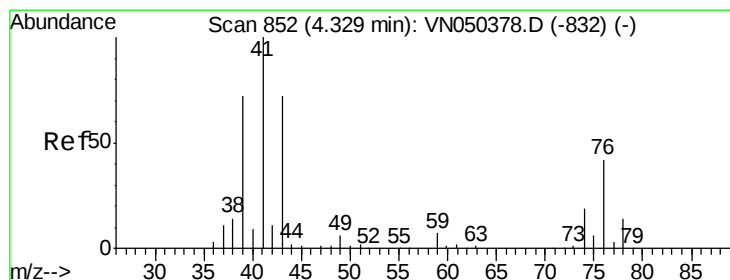
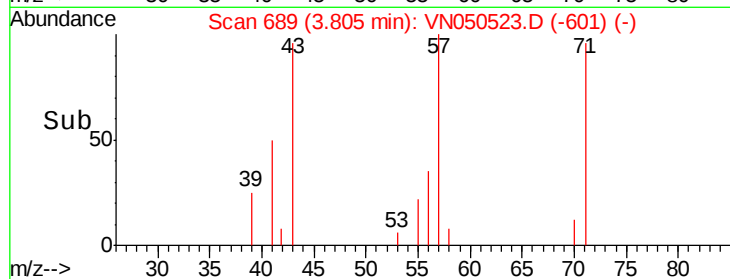
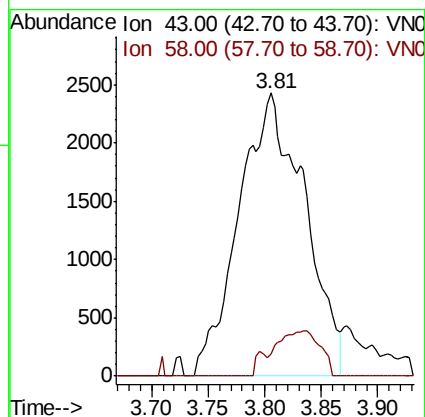
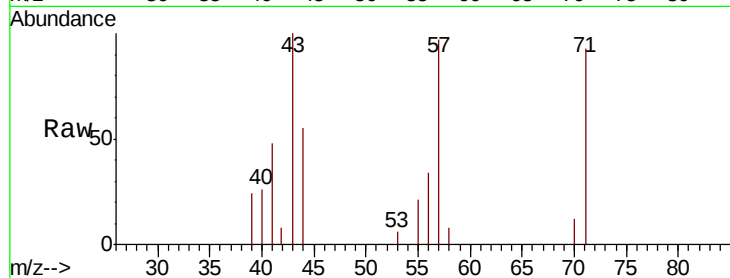
MW-7

Tot Ion: 43 Resp: 9793

Ion Ratio Lower Upper

43 100

58 7.8 25.8 38.8#



#18

Methyl Acetate

Concen: 0.64 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050523.D

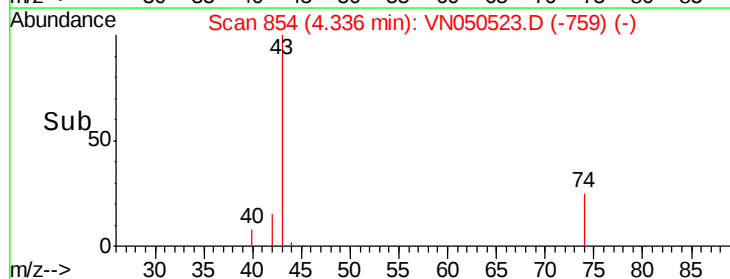
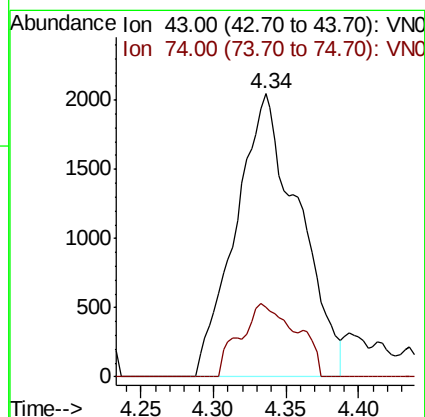
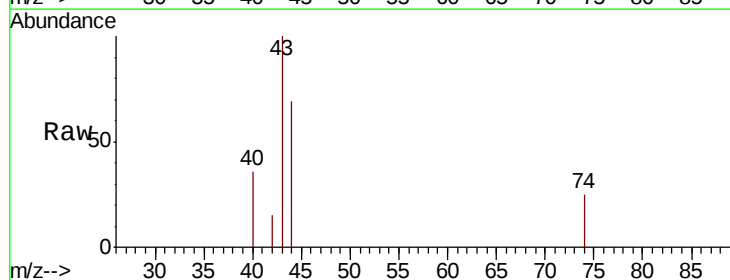
Acq: 10 Aug 2018 17:26

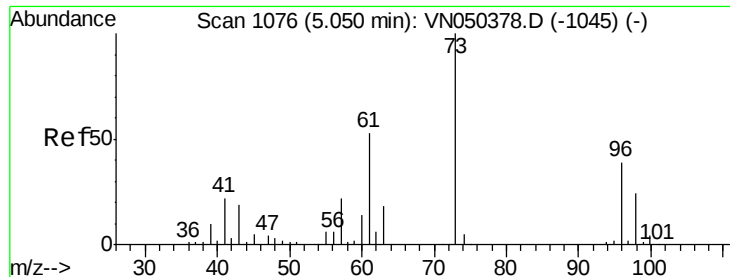
Tgt Ion: 43 Resp: 6196

Ion Ratio Lower Upper

43 100

74 23.1 19.2 28.8



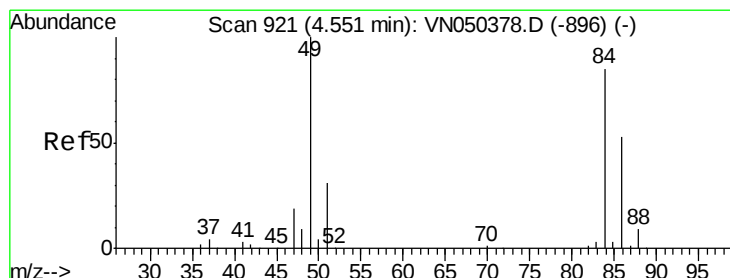
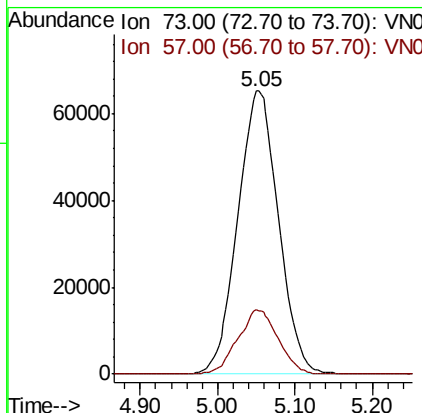
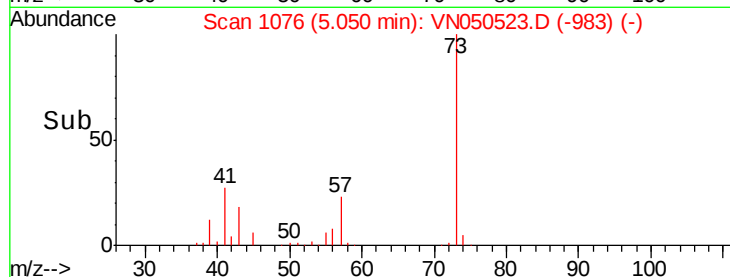
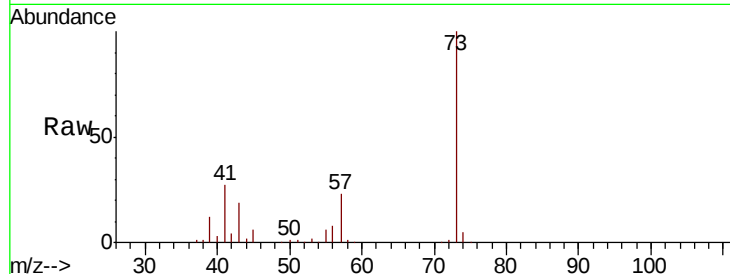


#19

Methyl tert-butyl Ether
 Concen: 10.86 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VN050523.D
 Acq: 10 Aug 2018 17:26

Instrument :
 MSVOA_N
 ClientSampled :
 MW-7

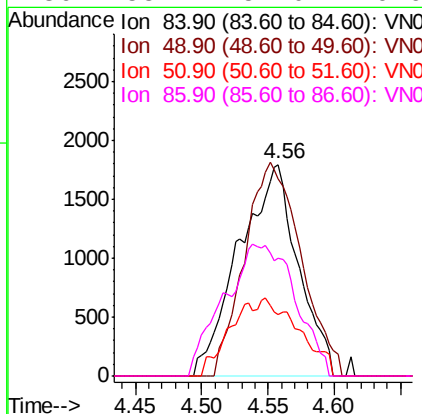
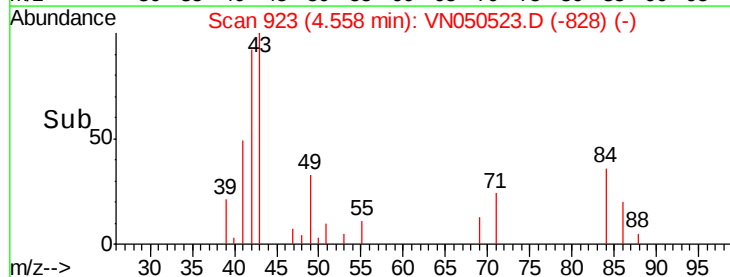
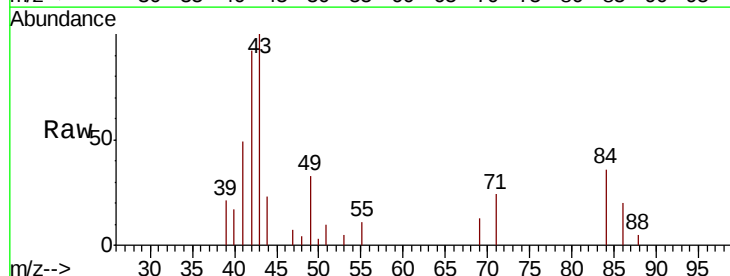
Tot Ion: 73 Resp: 238779
 Ion Ratio Lower Upper
 73 100
 57 22.6 18.0 27.0

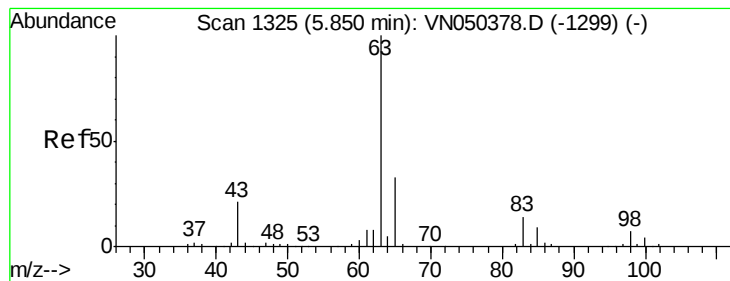


#20

Methylene Chloride
 Concen: Below Cal
 RT: 4.56 min Scan# 923
 Delta R.T. 0.01 min
 Lab File: VN050523.D
 Acq: 10 Aug 2018 17:26

Tgt Ion: 84 Resp: 5569
 Ion Ratio Lower Upper
 84 100
 49 92.9 94.8 142.2#
 51 29.2 28.3 42.5
 86 55.4 51.0 76.6





#24

1,1-Dichloroethane

Concen: 0.59 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

MW-7

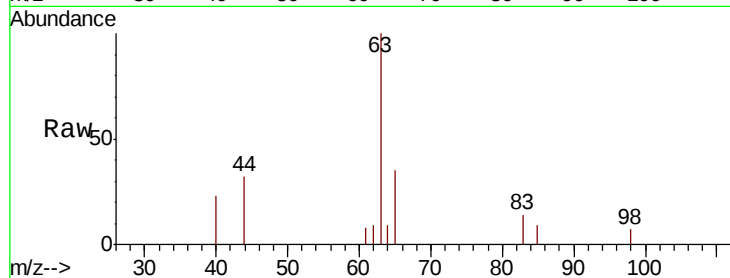
Tot Ion: 63 Resp: 9184

Ion Ratio Lower Upper

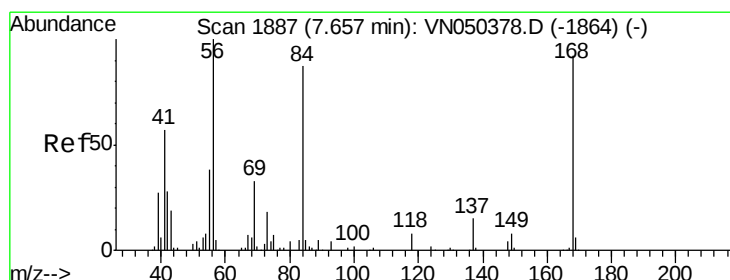
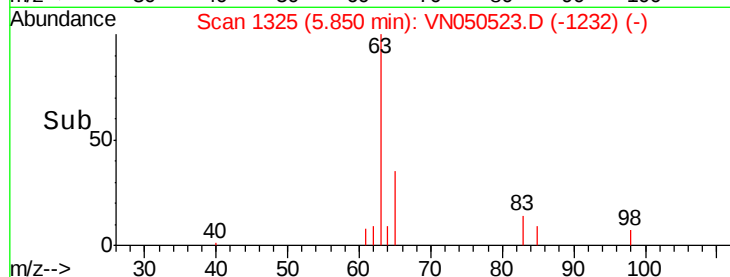
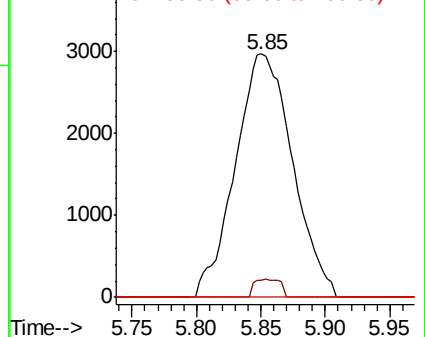
63 100

98 7.1 3.3 9.8

100 0.0 2.1 6.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#31

Cyclohexane

Concen: 0.28 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

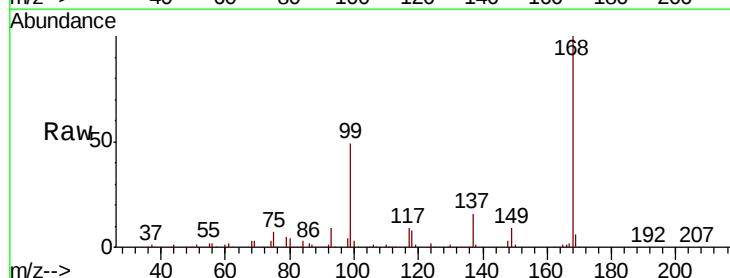
Tgt Ion: 56 Resp: 12372

Ion Ratio Lower Upper

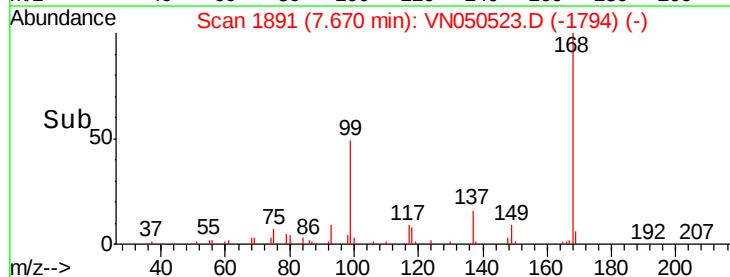
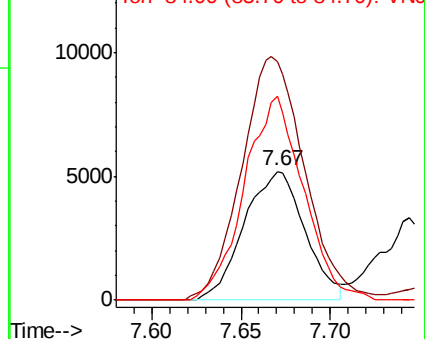
56 100

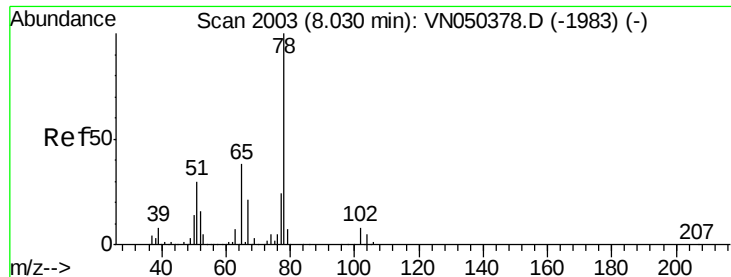
69 181.7 26.2 39.4#

84 158.5 67.4 101.0#



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: 49.60 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

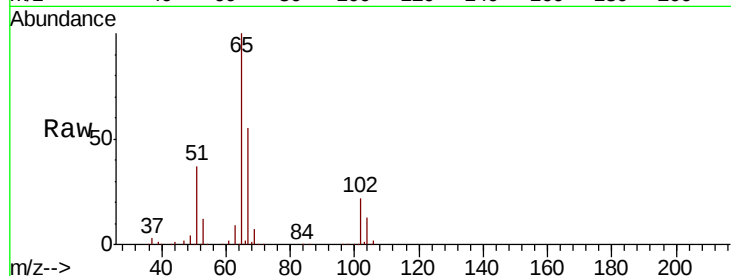
MW-7

Tot Ion: 65 Resp: 474820

Ion Ratio Lower Upper

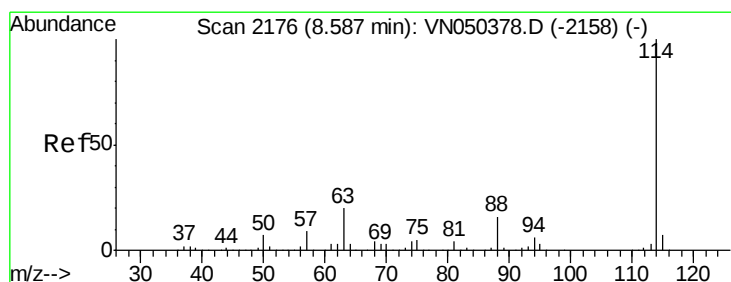
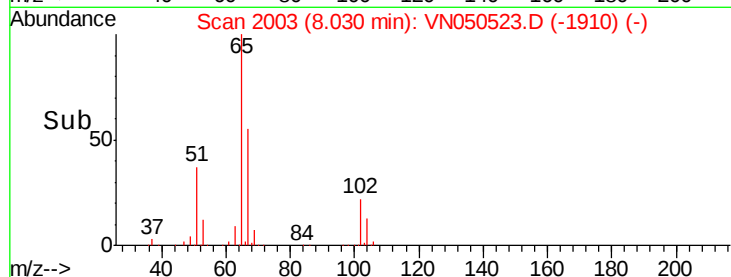
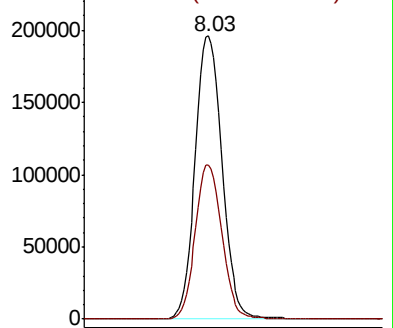
65 100

67 53.8 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

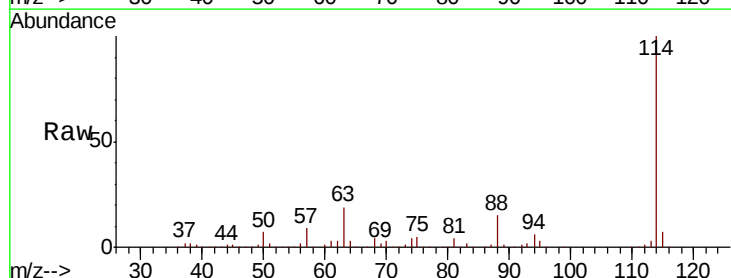
Tgt Ion:114 Resp: 1137663

Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.0

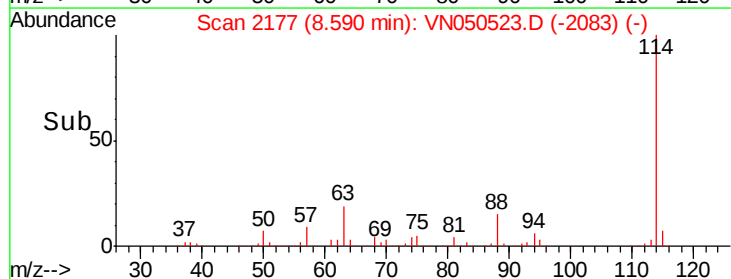
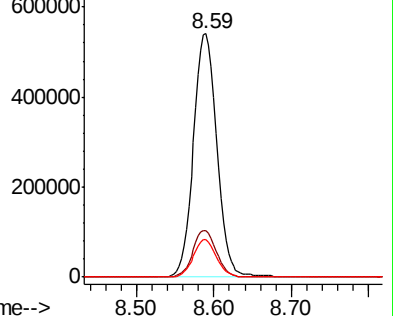
88 15.4 0.0 31.2

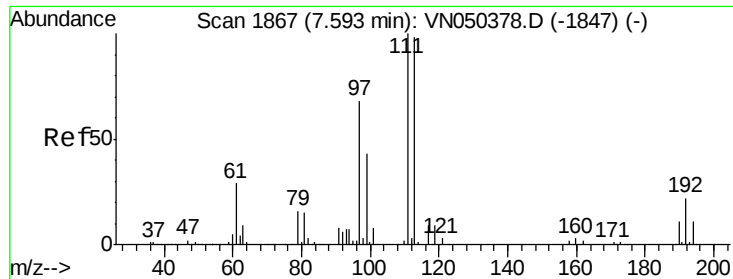


Abundance Ion 113.90 (113.60 to 114.60): VNO

Ion 63.00 (62.70 to 63.70): VNO

Ion 87.90 (87.60 to 88.60): VNO

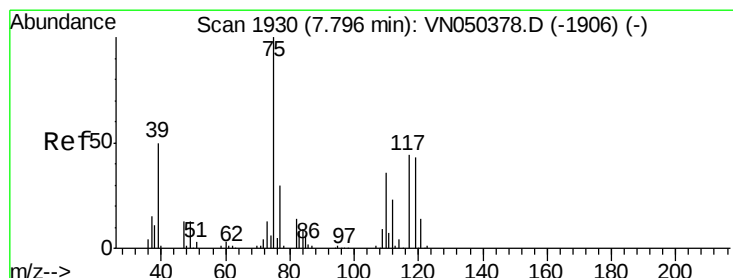
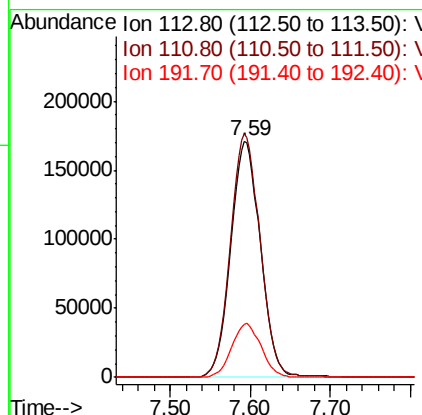
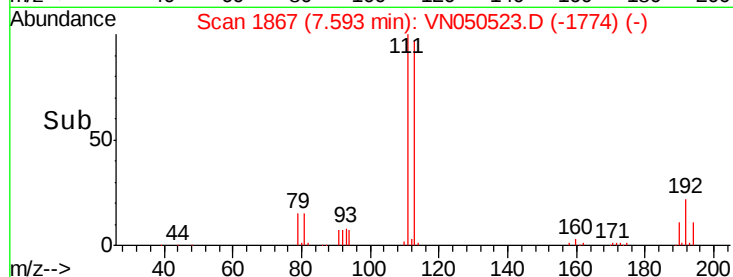
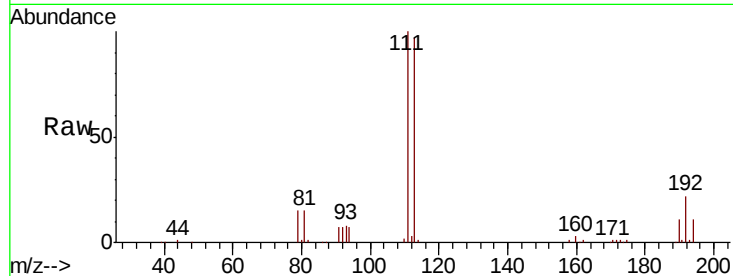




#35
 Dibromofluoromethane
 Concen: 47.40 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050523.D
 Acq: 10 Aug 2018 17:26

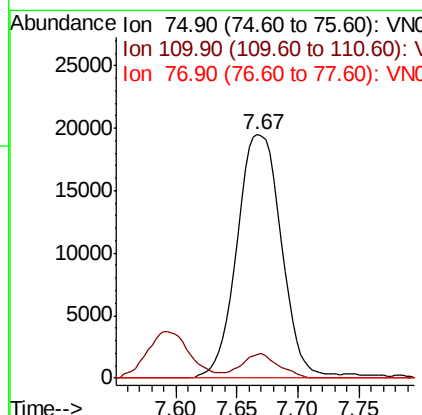
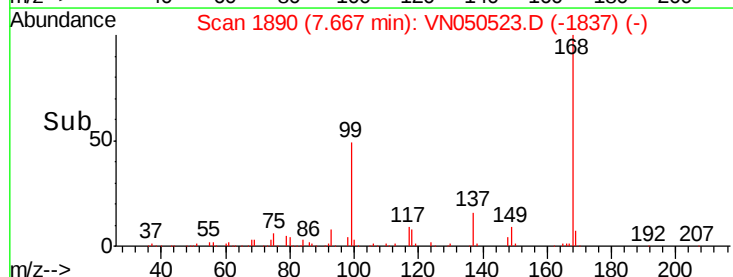
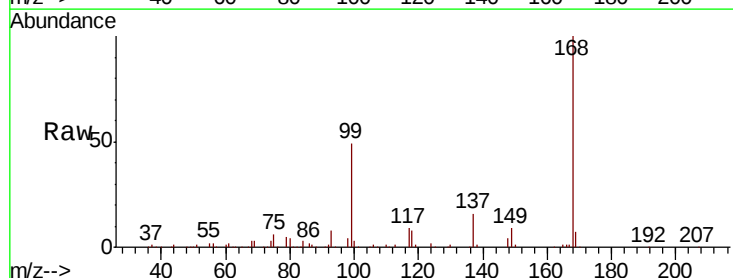
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

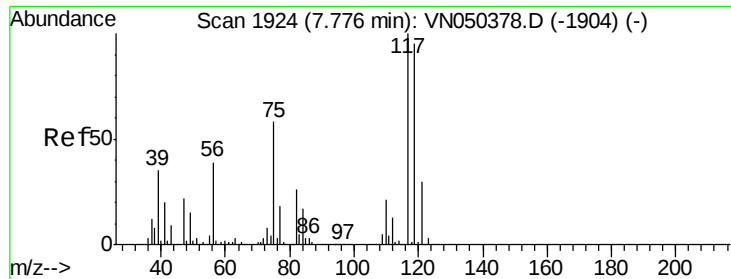
Tot Ion:113 Resp: 432654
 Ion Ratio Lower Upper
 113 100
 111 103.2 80.7 121.1
 192 22.6 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.93 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050523.D
 Acq: 10 Aug 2018 17:26

Tgt Ion: 75 Resp: 49177
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.4 55.2#
 77 0.0 25.3 37.9#

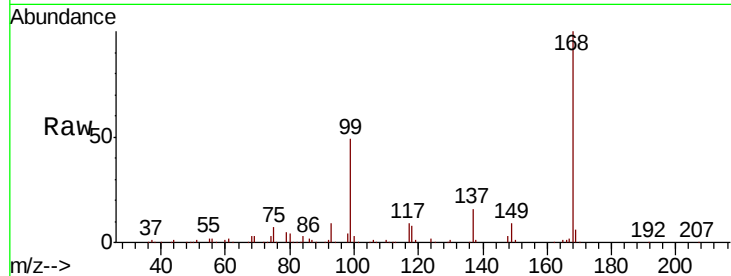




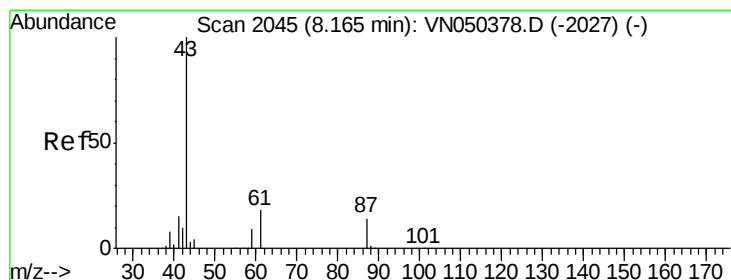
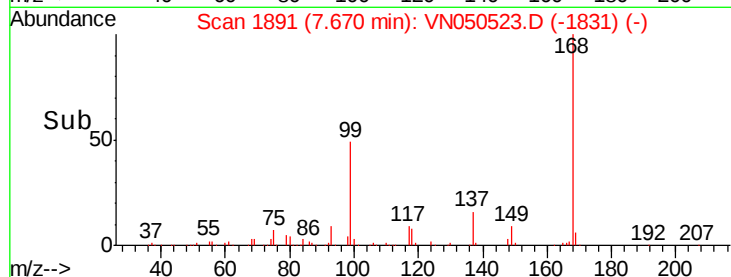
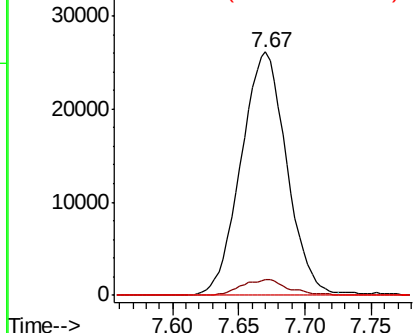
#38
Carbon Tetrachloride
Concen: 4.80 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050523.D
Acq: 10 Aug 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
MW-7

Tot Ion:117 Resp: 62580
Ion Ratio Lower Upper
117 100
119 6.2 77.4 116.0#
121 0.0 23.9 35.9#

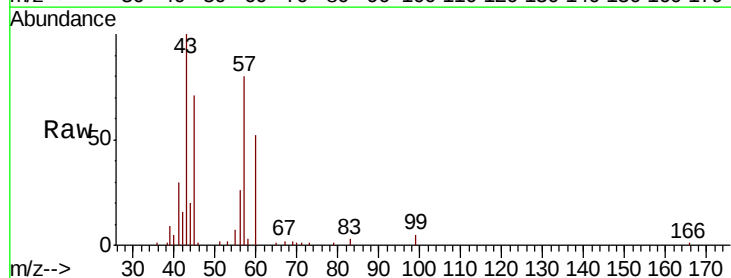


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

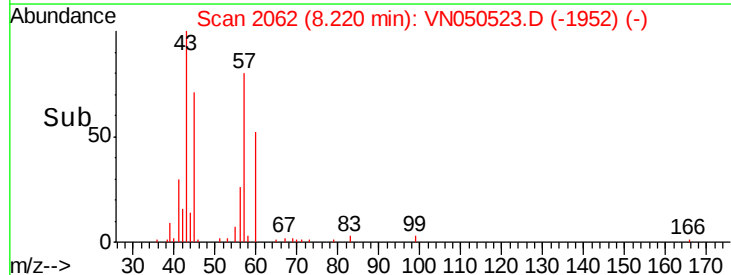
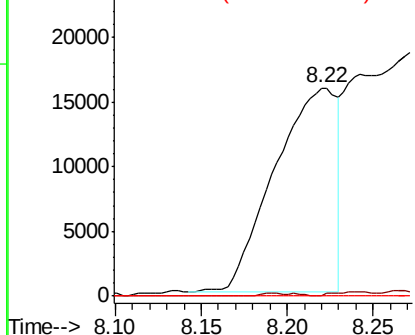


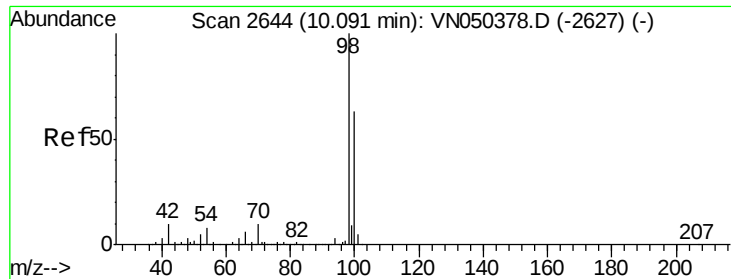
#43
Isopropyl Acetate
Concen: 2.56 ug/l
RT: 8.22 min Scan# 2062
Delta R.T. 0.05 min
Lab File: VN050523.D
Acq: 10 Aug 2018 17:26

Tgt Ion: 43 Resp: 39719
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): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

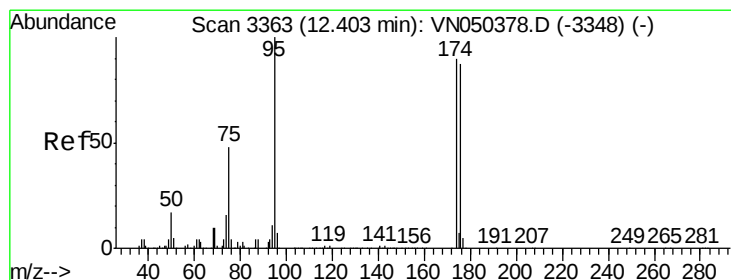
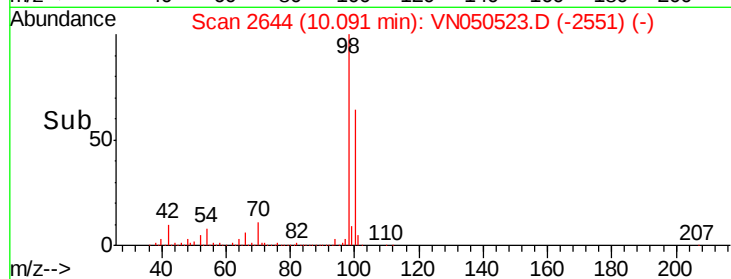
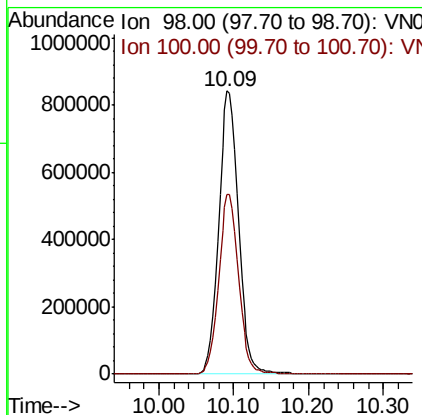
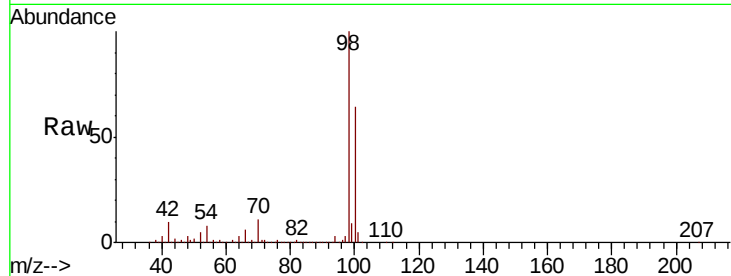




#50
Toluene-d8
Concen: 44.95 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050523.D
Acq: 10 Aug 2018 17:26

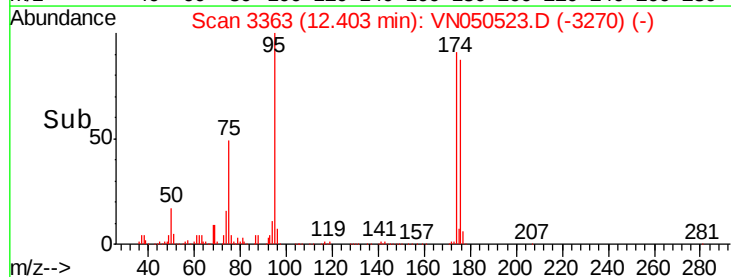
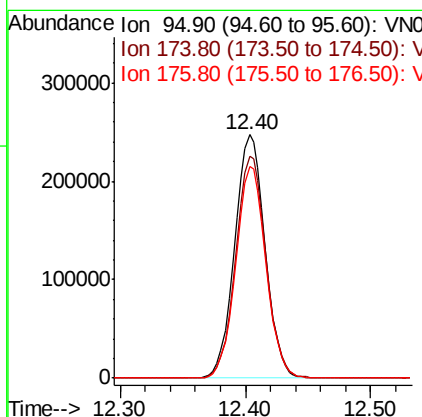
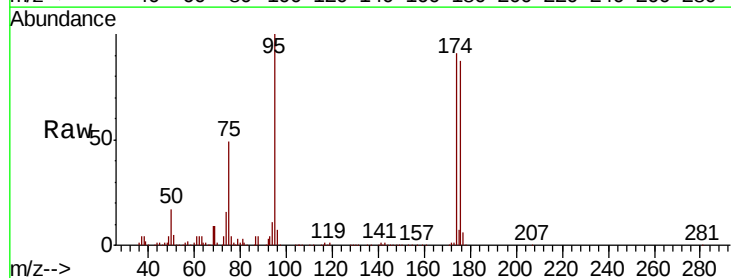
Instrument :
MSVOA_N
ClientSampleId :
MW-7

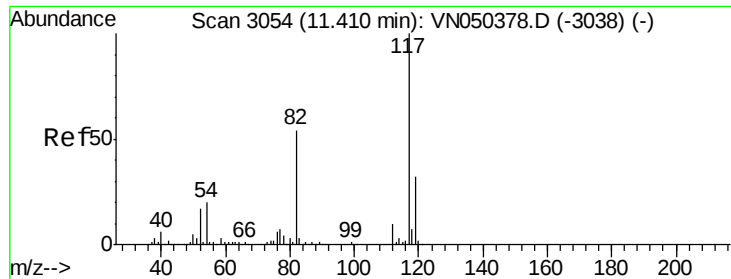
Tot Ion: 98 Resp: 1542844
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1



#62
4-Bromofluorobenzene
Concen: 35.39 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050523.D
Acq: 10 Aug 2018 17:26

Tgt Ion: 95 Resp: 413928
Ion Ratio Lower Upper
95 100
174 91.2 0.0 178.2
176 86.5 0.0 173.4

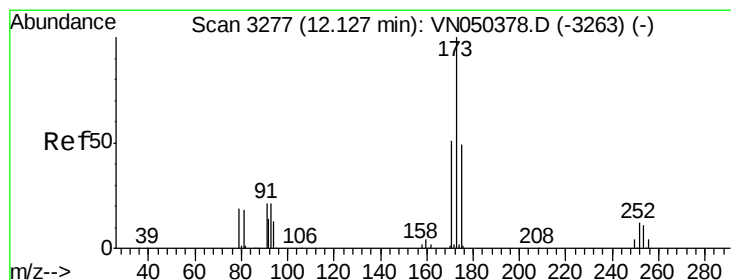
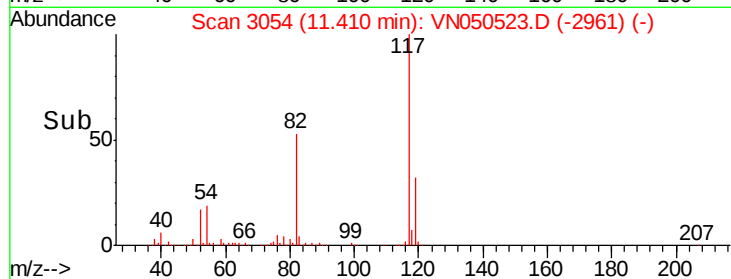
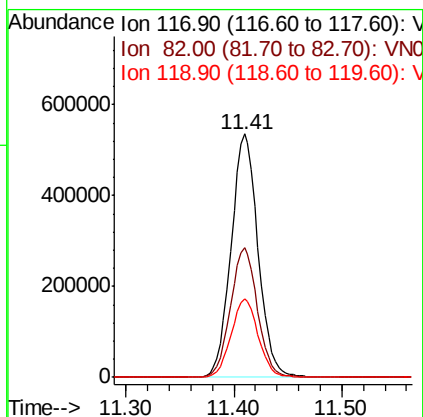
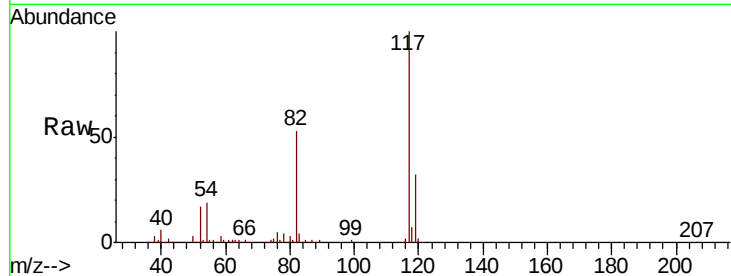




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050523.D
Acq: 10 Aug 2018 17:26

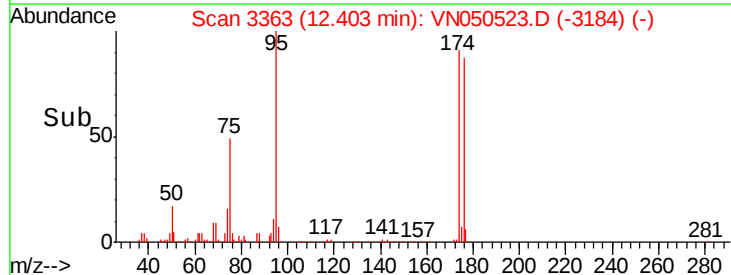
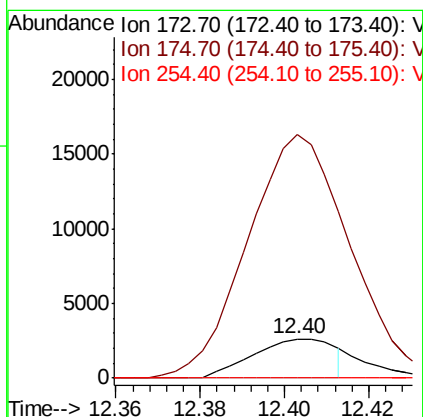
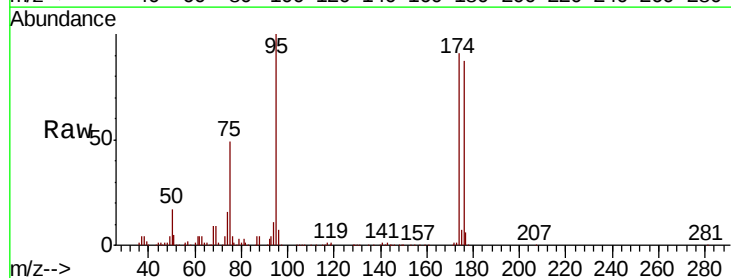
Instrument :
MSVOA_N
ClientSampleId :
MW-7

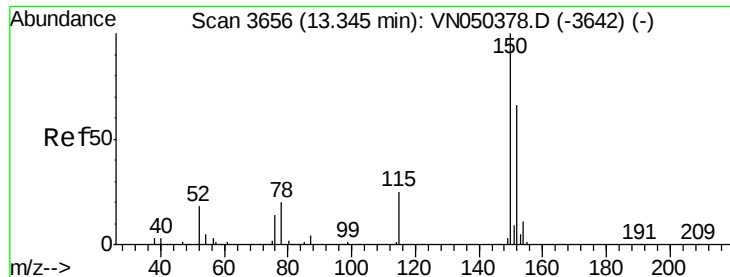
Tot Ion:117 Resp: 933473
Ion Ratio Lower Upper
117 100
82 53.1 43.7 65.5
119 32.3 26.1 39.1



#71
Bromoform
Concen: 0.57 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050523.D
Acq: 10 Aug 2018 17:26

Tgt Ion:173 Resp: 3526
Ion Ratio Lower Upper
173 100
175 642.7 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: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

MW-7

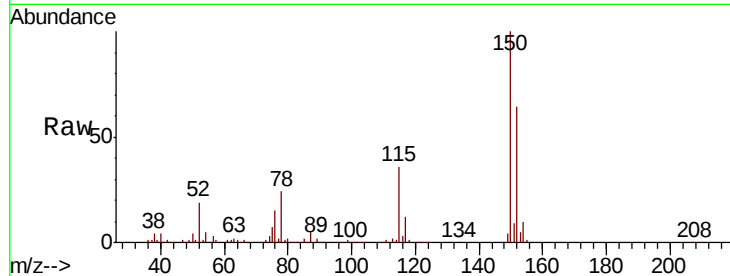
Tot Ion:152 Resp: 337617

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.3

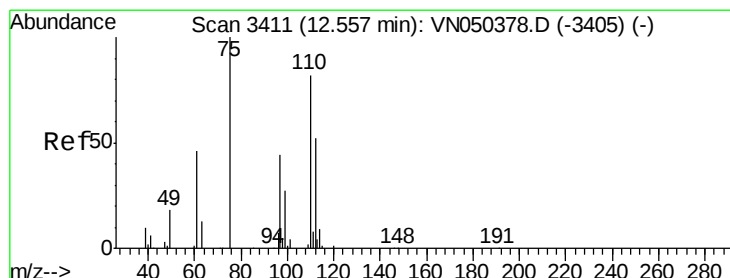
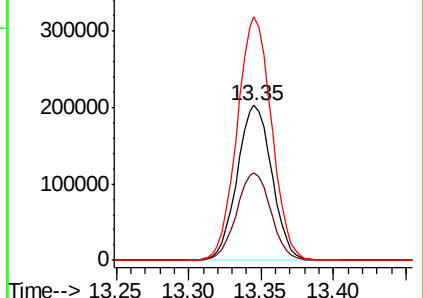
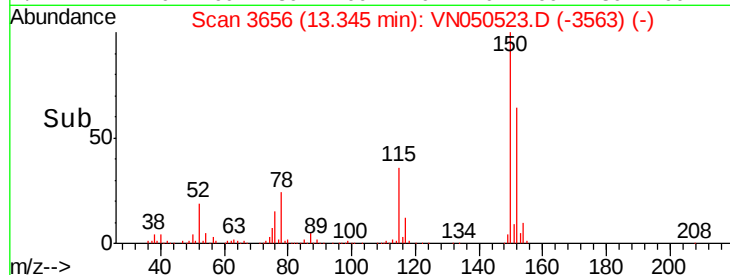
150 155.9 0.0 348.6



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: 32.78 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050523.D

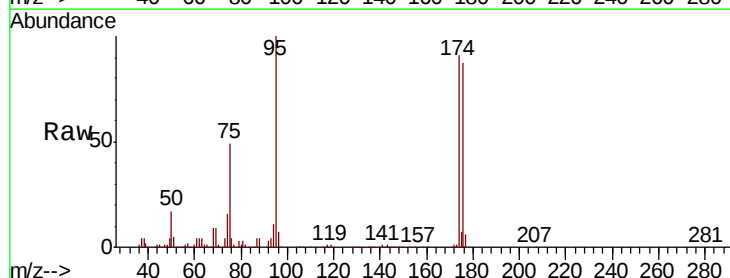
Acq: 10 Aug 2018 17:26

Tgt Ion: 75 Resp: 200335

Ion Ratio Lower Upper

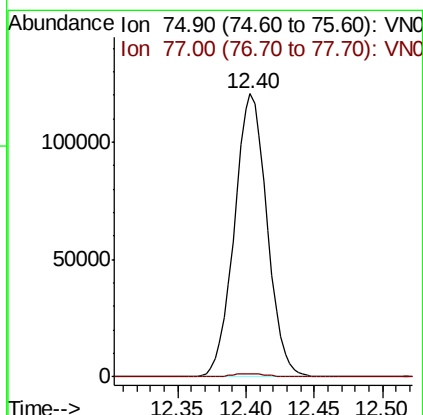
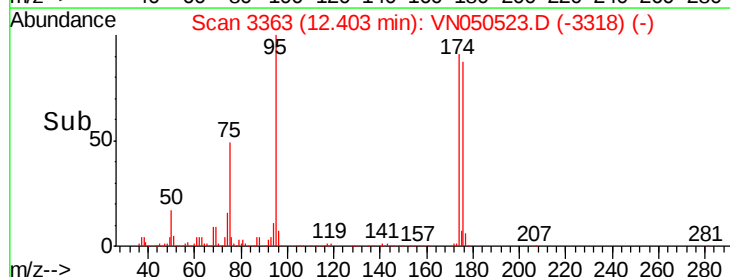
75 100

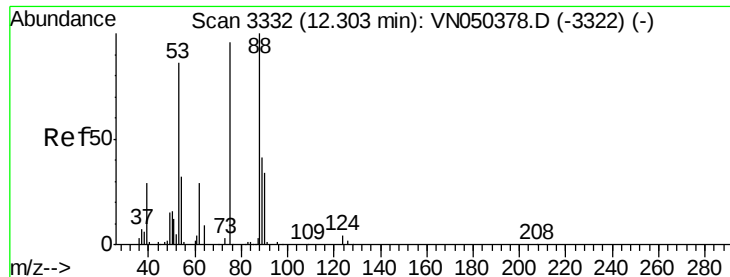
77 1.1 0.0 0.0#



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: 115.18 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

MW-7

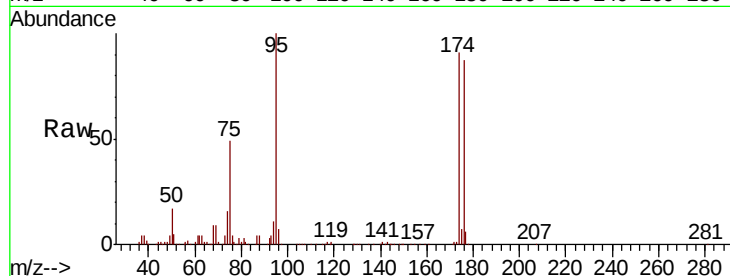
Tot Ion: 75 Resp: 200335

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

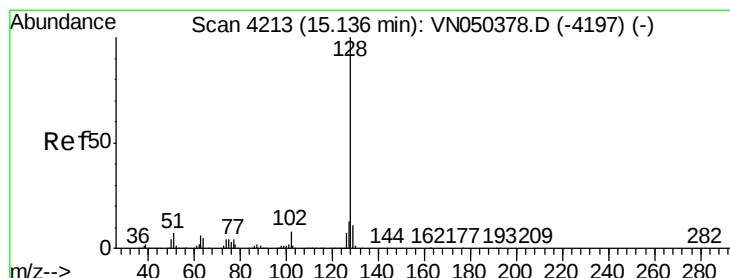
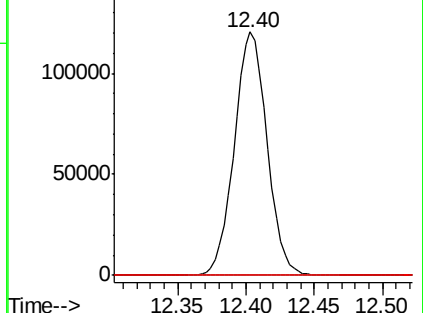
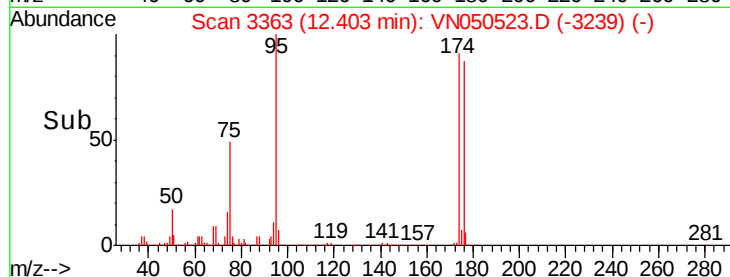
89 0.0 36.0 54.0#



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



#95

Naphthalene

Concen: 3.63 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050523.D

Acq: 10 Aug 2018 17:26

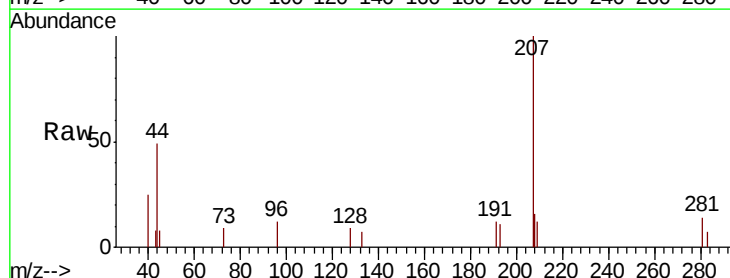
Tgt Ion: 128 Resp: 227

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

