

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050112.D
 Acq On : 27 Jul 2018 4:29
 Operator : MD\SY
 Sample : J4163-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13B

Quant Time: Jul 27 07:56:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	718306	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1155604	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	984626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	391749	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	488331	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
35) Dibromofluoromethane	7.59	113	432171	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
50) Toluene-d8	10.09	98	1583299	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	
62) 4-Bromofluorobenzene	12.40	95	477801	41.83	ug/l	0.00
Spiked Amount			Recovery	=	83.66%	

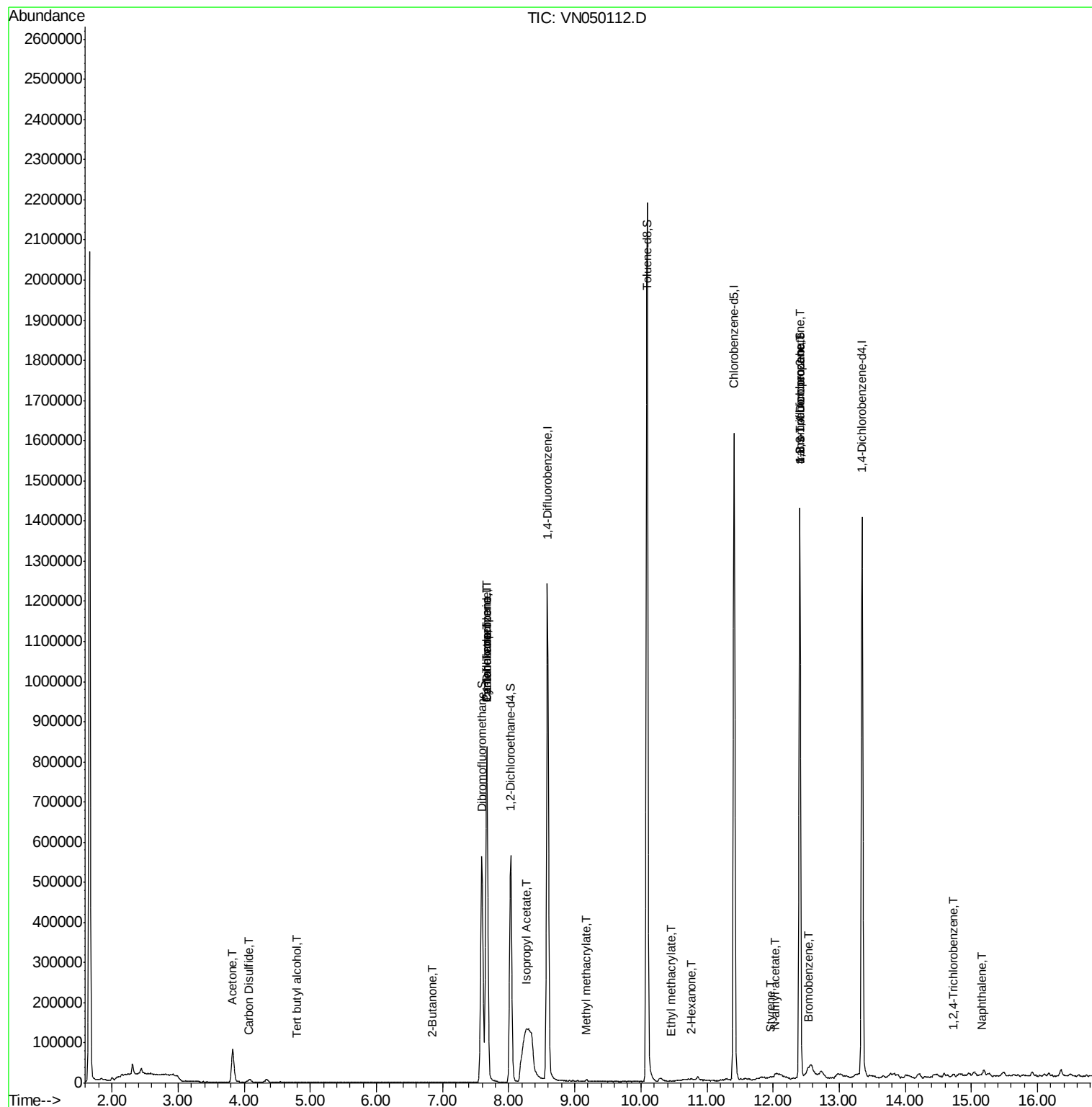
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	313	Below Cal	#	21
11) Tert butyl alcohol	4.79	59	589	0.80	ug/l #	72
16) Acetone	3.82	43	141473	56.57	ug/l	98
17) Carbon Disulfide	4.06	76	5381	0.21	ug/l #	75
18) Methyl Acetate	4.34	43	14488	Below Cal	#	78
20) Methylene Chloride	4.56	84	455	Below Cal	#	73
25) 2-Butanone	6.84	43	945	0.25	ug/l #	48
31) Cyclohexane	7.67	56	13775	0.93	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50374	3.87	ug/l #	48
38) Carbon Tetrachloride	7.67	117	65299	4.73	ug/l #	16
43) Isopropyl Acetate	8.28	43	245520	13.52	ug/l #	61
48) Methyl methacrylate	9.17	41	1615	0.21	ug/l #	34
56) Ethyl methacrylate	10.46	69	61	2.04	ug/l #	34
59) 2-Hexanone	10.76	43	372	5.23	ug/l #	24
70) Styrene	11.97	104	139	0.93	ug/l #	1
74) N-amyl acetate	12.03	43	2307	0.25	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.49	83	361	Below Cal	#	10
76) 1,2,3-Trichloropropane	12.40	75	235828	32.39	ug/l #	100
77) Bromobenzene	12.53	156	14490	1.72	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	235828	102.74	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.30	75	69	Below Cal	#	17
93) 1,2,4-Trichlorobenzene	14.73	180	29	3.09	ug/l #	13
95) Naphthalene	15.14	128	1789	4.51	ug/l #	83

(#) = 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# 1891

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampleId :

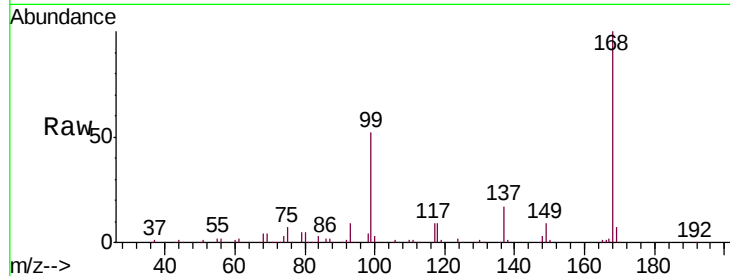
MW-13B

Tot Ion:168 Resp: 718306

Ion Ratio Lower Upper

168 100

99 52.0 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

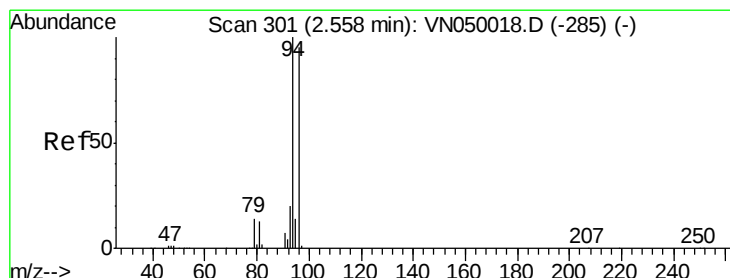
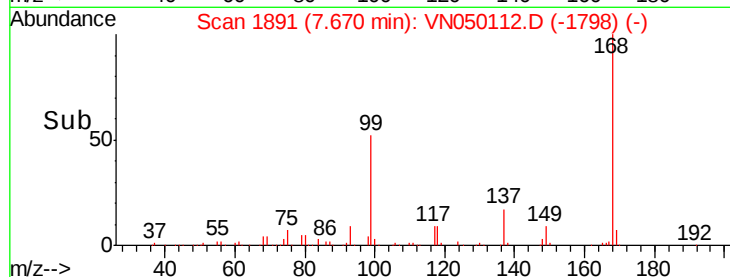
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 299

Delta R.T. 0.00 min

Lab File: VN050112.D

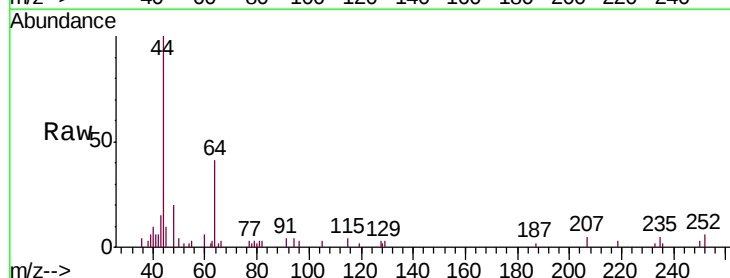
Acq: 27 Jul 2018 4:29

Tgt Ion: 94 Resp: 313

Ion Ratio Lower Upper

94 100

96 17.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

500

400

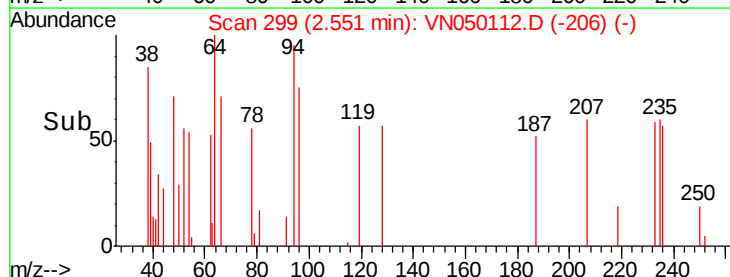
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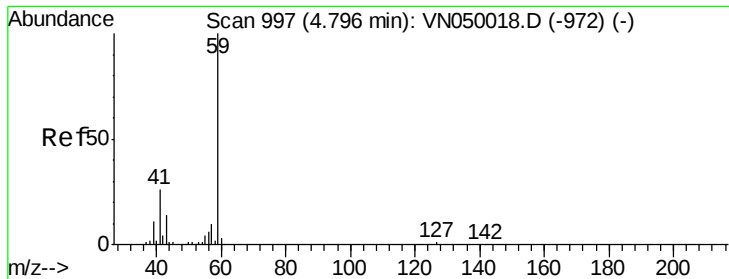
200

100

0

Time-->



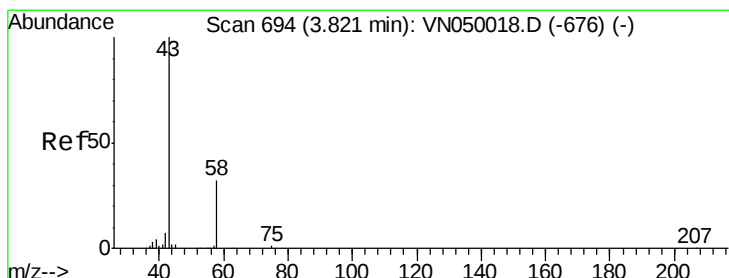
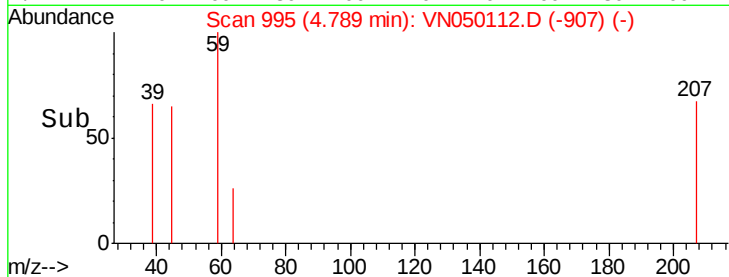
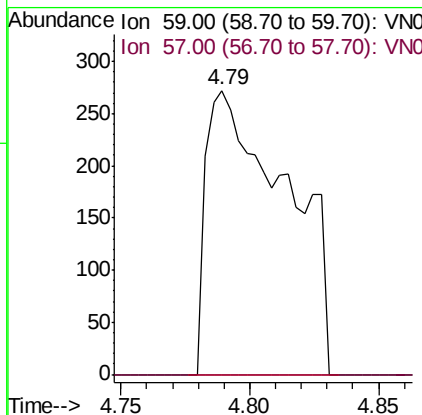
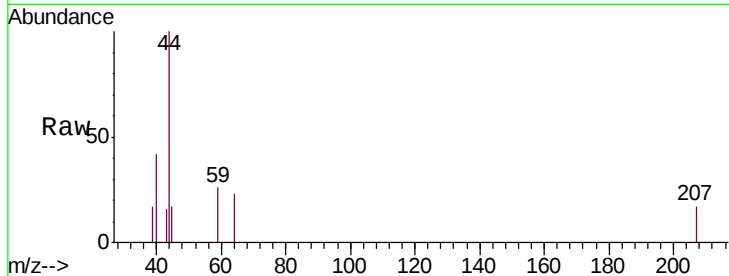


#11

Tert butyl alcohol
 Concen: 0.80 ug/l
 RT: 4.79 min Scan# 995
 Delta R.T. -0.02 min
 Lab File: VN050112.D
 Acq: 27 Jul 2018 4:29

Instrument :
 MSVOA_N
 ClientSampled :
 MW-13B

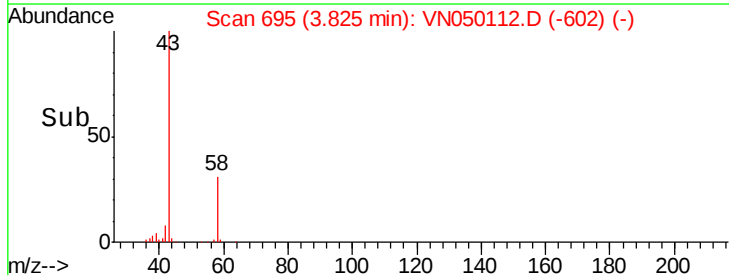
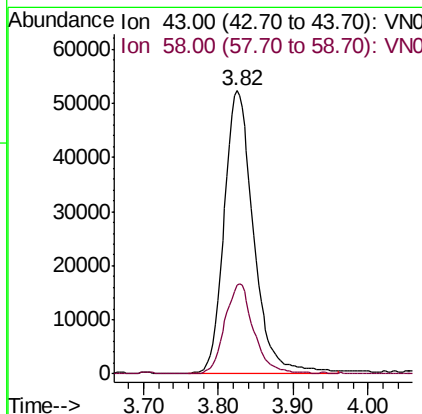
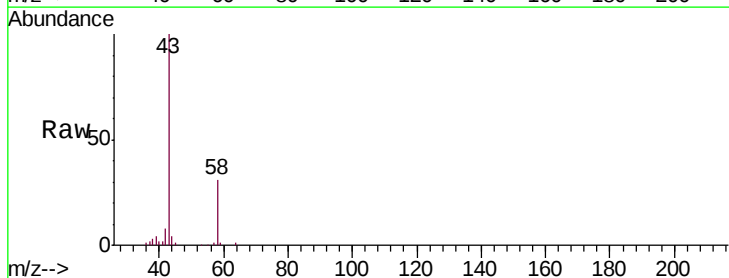
Tot Ion: 59 Resp: 589
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

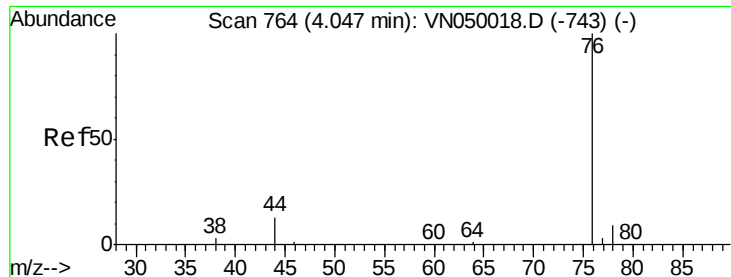


#16

Acetone
 Concen: 56.57 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.00 min
 Lab File: VN050112.D
 Acq: 27 Jul 2018 4:29

Tgt Ion: 43 Resp: 141473
 Ion Ratio Lower Upper
 43 100
 58 31.3 25.8 38.8





#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 4.06 min Scan# 767

Delta R.T. 0.01 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampleId :

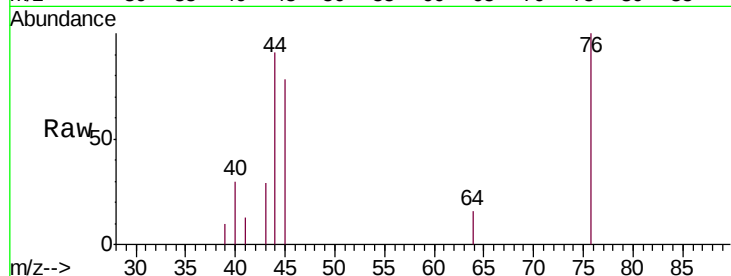
MW-13B

Tot Ion: 76 Resp: 5381

Ion Ratio Lower Upper

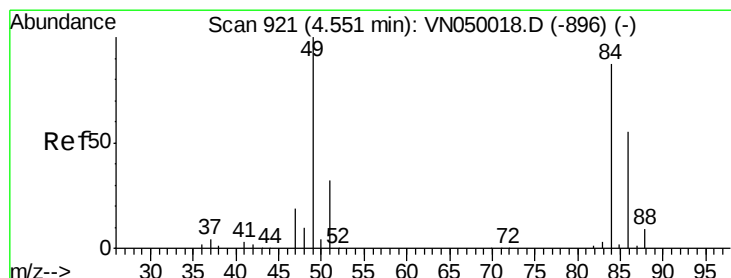
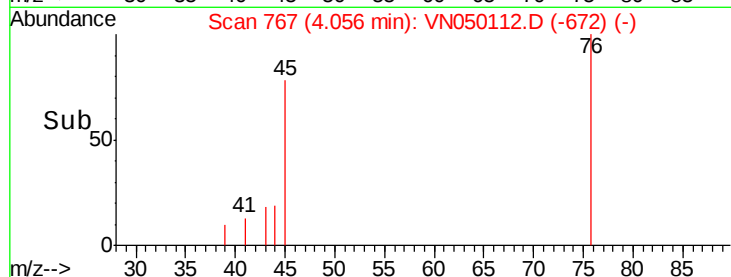
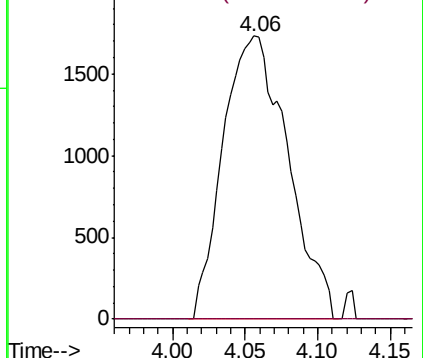
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.56 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Tgt Ion: 84 Resp: 455

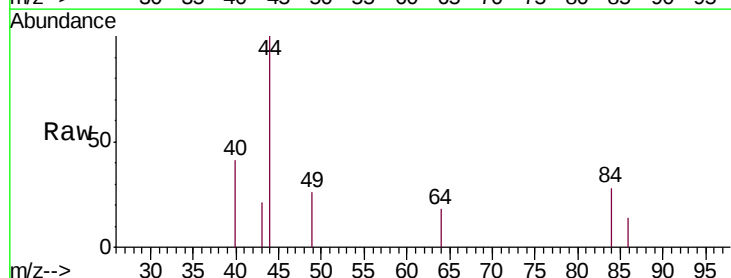
Ion Ratio Lower Upper

84 100

49 92.6 94.8 142.2#

51 0.0 28.3 42.5#

86 51.1 51.0 76.6

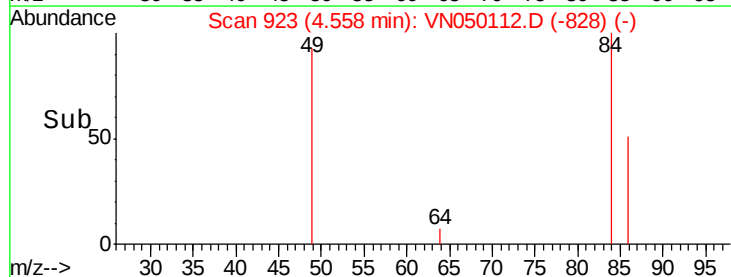
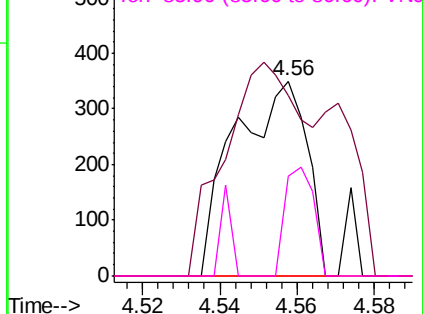


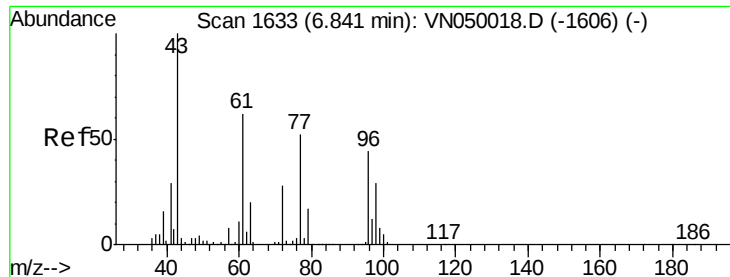
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

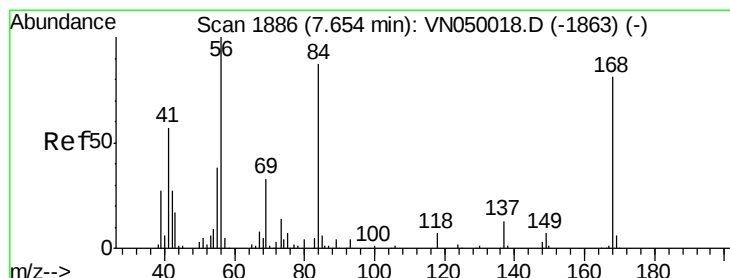
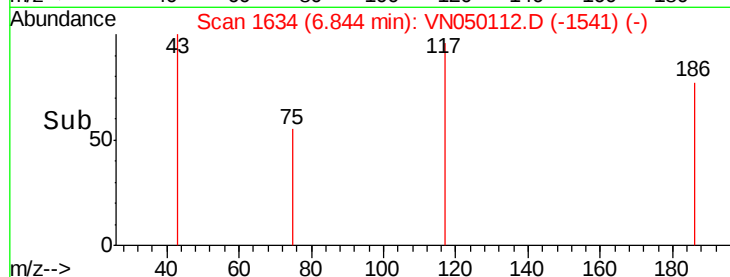
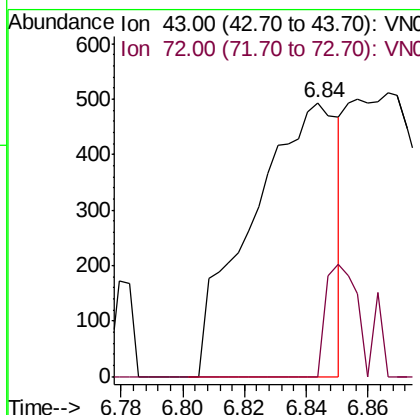
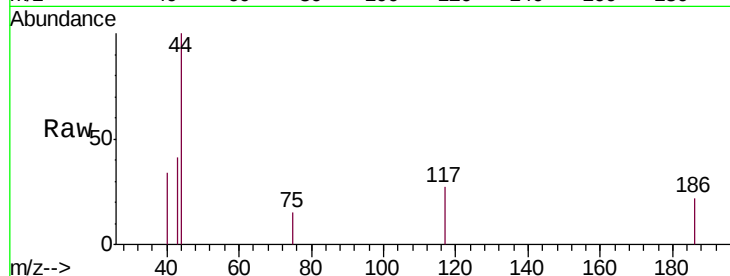




#25
2-Butanone
Concen: 0.25 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050112.D
Acq: 27 Jul 2018 4:29

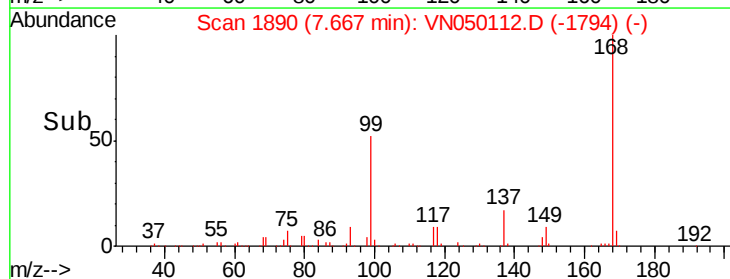
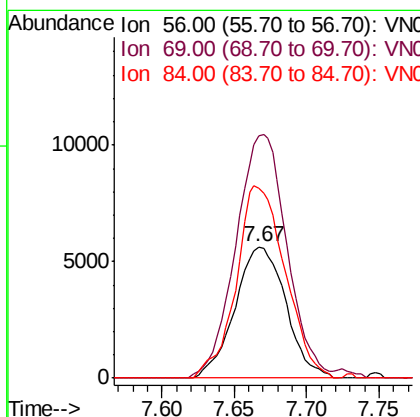
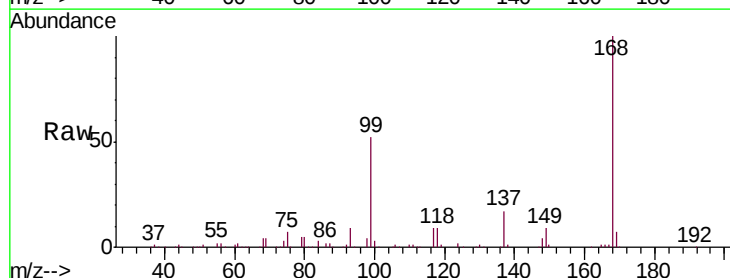
Instrument :
MSVOA_N
ClientSampled :
MW-13B

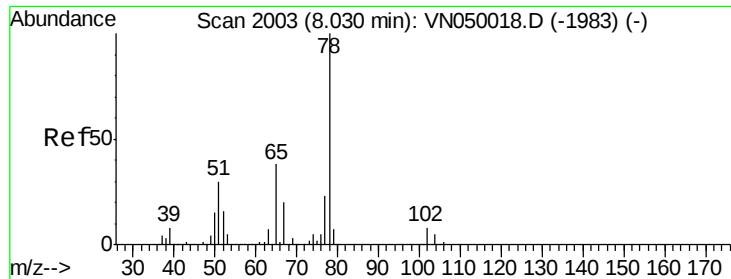
Tot Ion: 43 Resp: 945
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#



#31
Cyclohexane
Concen: 0.93 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050112.D
Acq: 27 Jul 2018 4:29

Tgt Ion: 56 Resp: 13775
Ion Ratio Lower Upper
56 100
69 184.8 26.2 39.4#
84 144.8 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 48.73 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampleId :

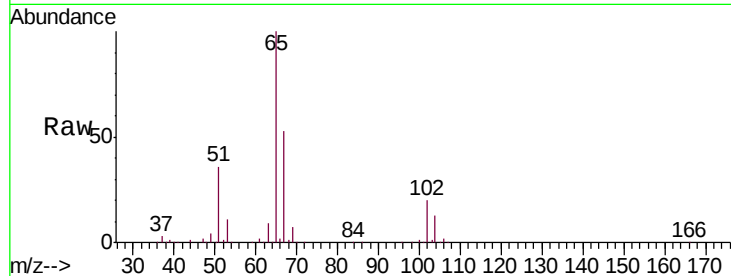
MW-13B

Tot Ion: 65 Resp: 488331

Ion Ratio Lower Upper

65 100

67 53.4 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050112.D (-1910) (-)

Ion 66.90 (66.60 to 67.60): VN050112.D (-1910) (-)

8.03

200000

150000

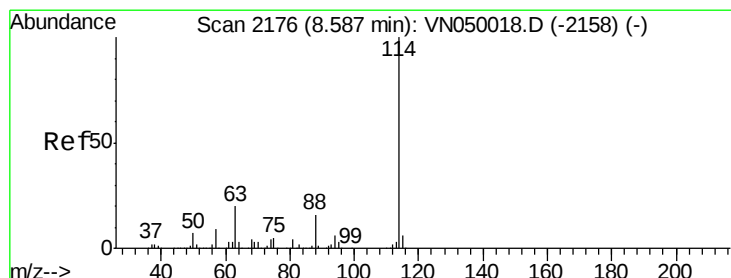
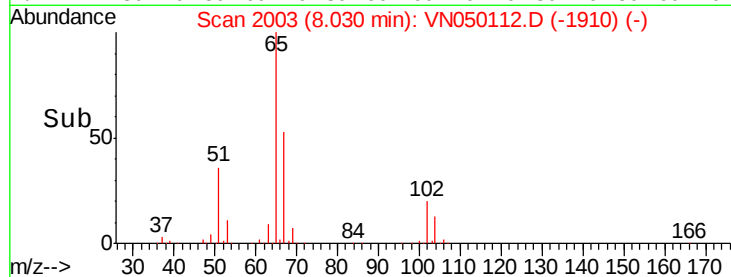
100000

50000

0

8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

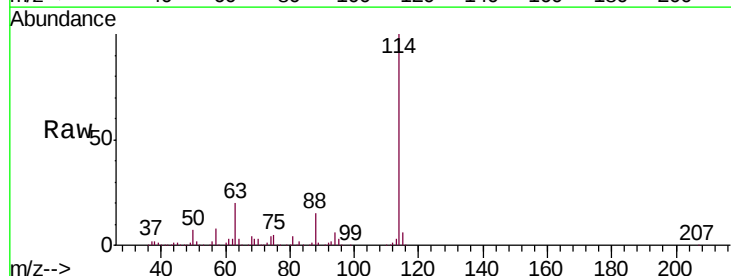
Tgt Ion: 114 Resp: 1155604

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

88 15.3 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN050112.D (-2084) (-)

Ion 63.00 (62.70 to 63.70): VN050112.D (-2084) (-)

Ion 87.90 (87.60 to 88.60): VN050112.D (-2084) (-)

8.59

600000

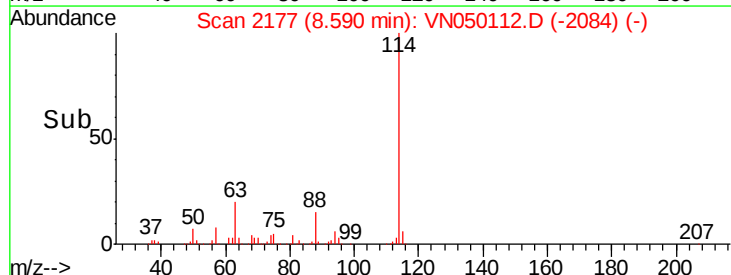
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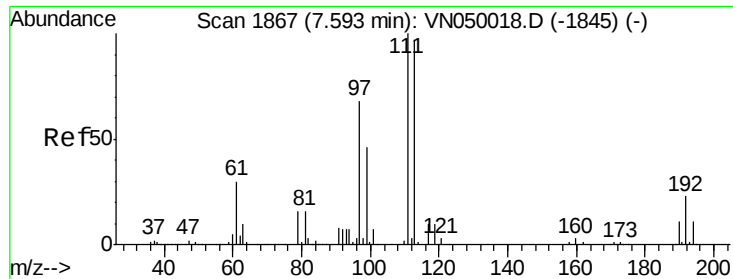
200000

0

8.50 8.60 8.70

Time-->

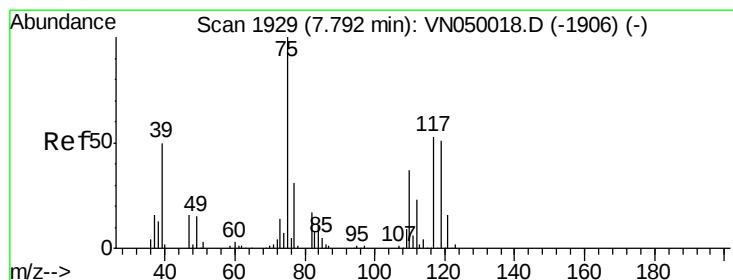
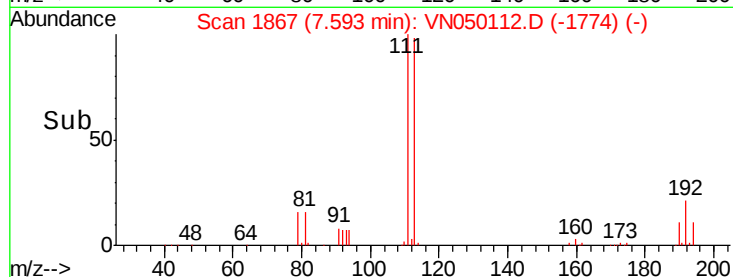
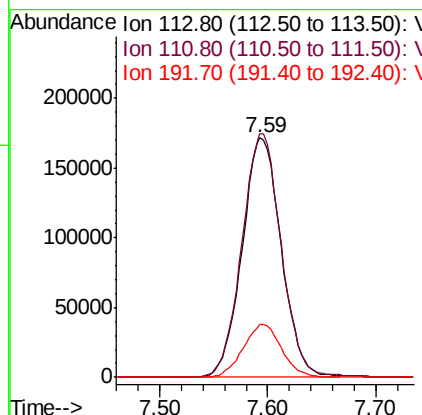
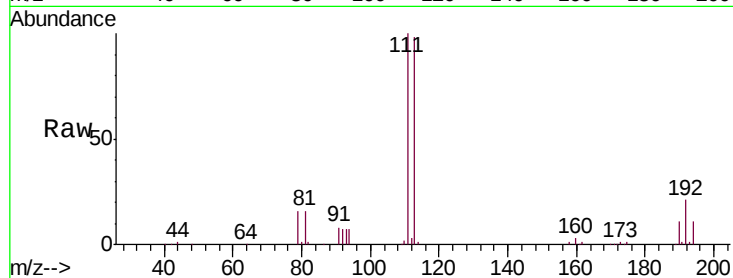




#35
 Dibromofluoromethane
 Concen: 45.80 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050112.D
 Acq: 27 Jul 2018 4:29

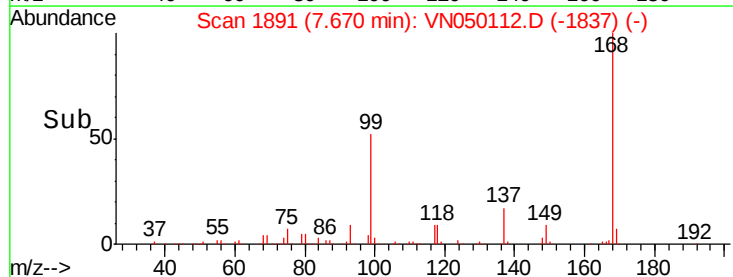
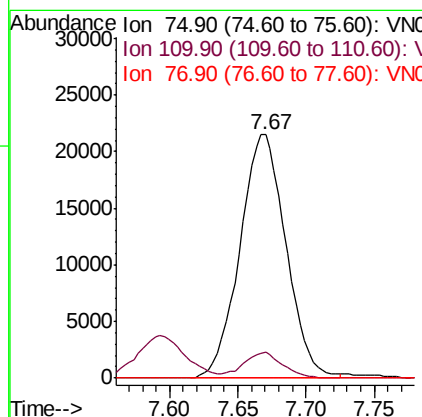
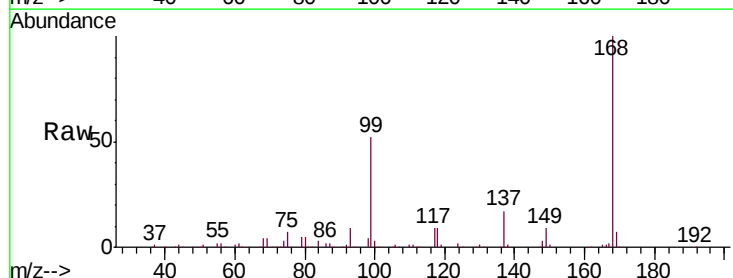
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13B

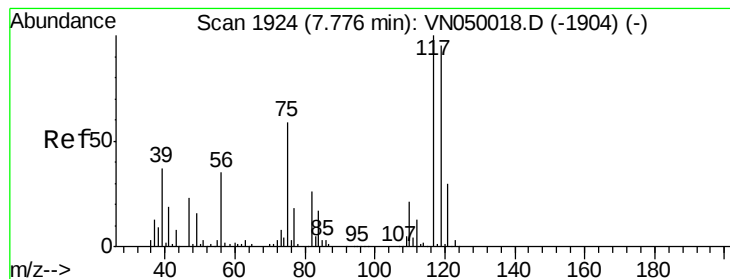
Tot Ion:113 Resp: 432171
 Ion Ratio Lower Upper
 113 100
 111 102.7 80.7 121.1
 192 21.9 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050112.D
 Acq: 27 Jul 2018 4:29

Tgt Ion: 75 Resp: 50374
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampled :

MW-13B

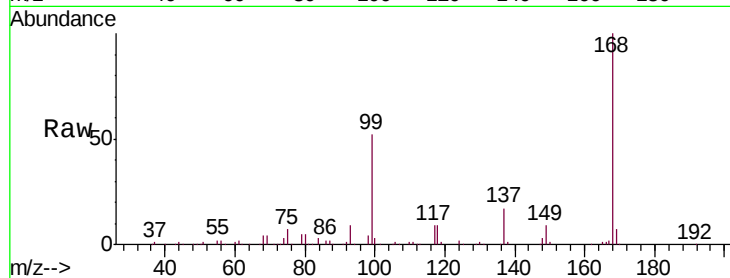
Tot Ion:117 Resp: 65299

Ion Ratio Lower Upper

117 100

119 5.9 77.4 116.0#

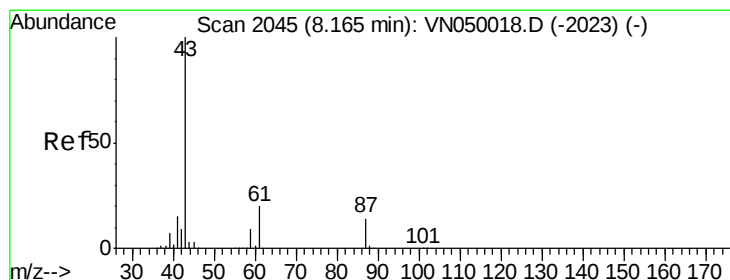
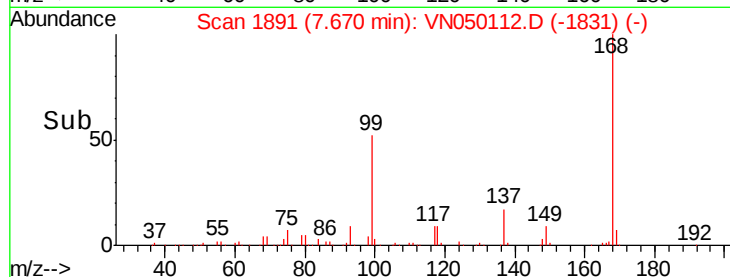
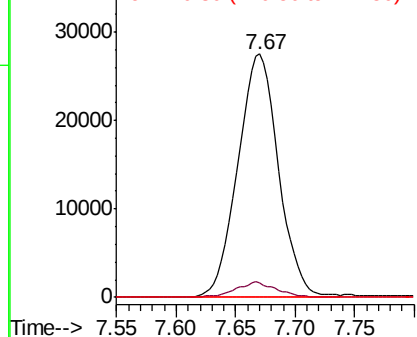
121 0.0 23.9 35.9#



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: 13.52 ug/l

RT: 8.28 min Scan# 2080

Delta R.T. 0.11 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

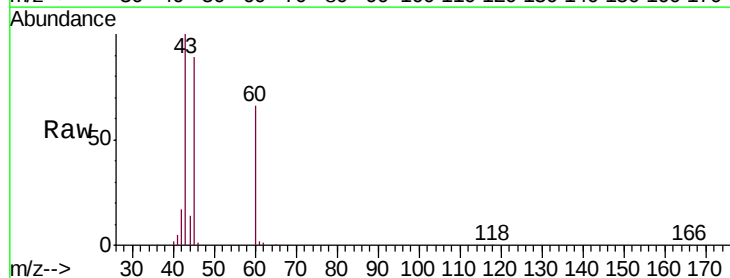
Tgt Ion: 43 Resp: 245520

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

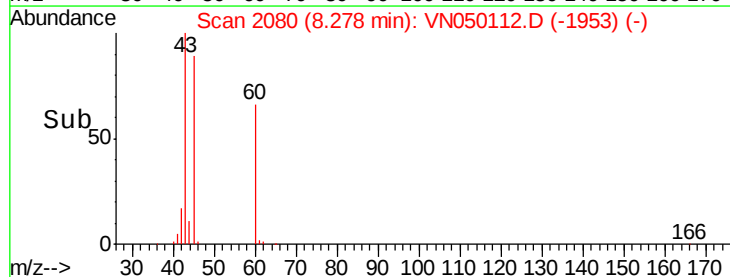
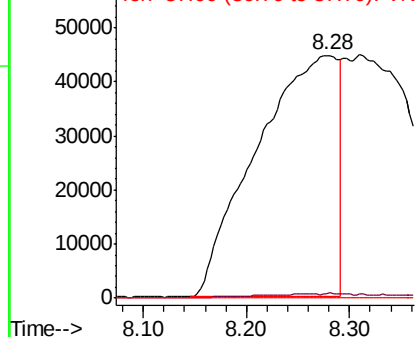
87 0.0 10.3 15.5#

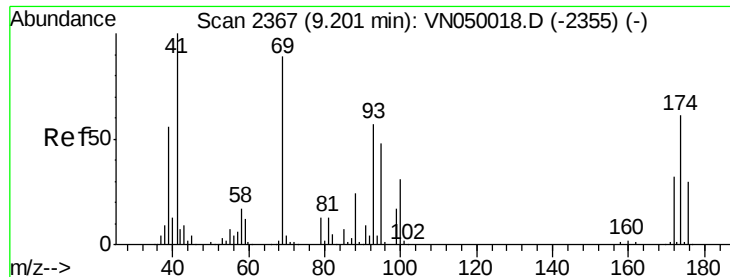


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

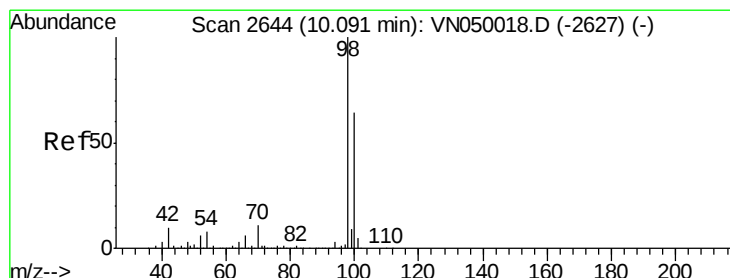
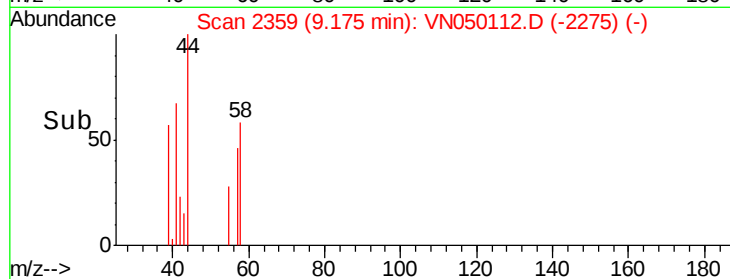
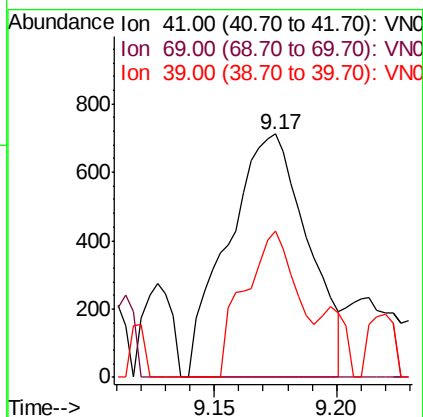
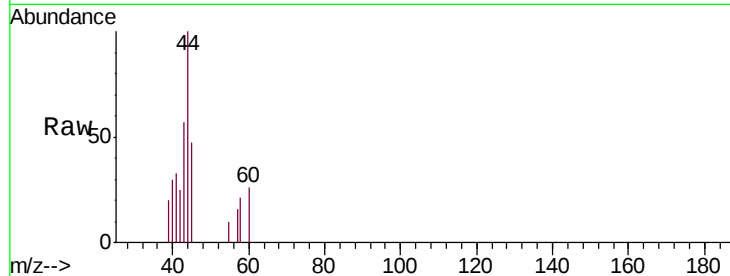




#48
Methyl methacrylate
Concen: 0.21 ug/l
RT: 9.17 min Scan# 2359
Delta R.T. -0.03 min
Lab File: VN050112.D
Acq: 27 Jul 2018 4:29

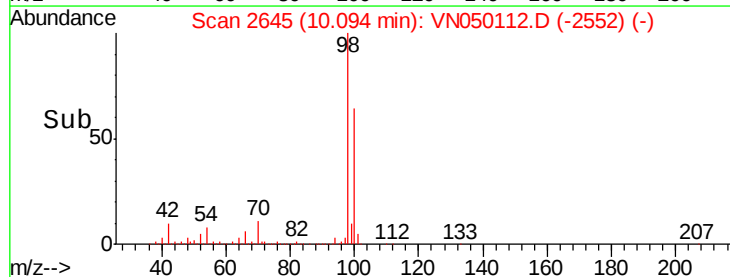
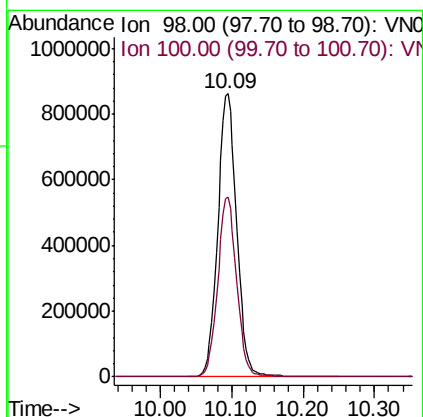
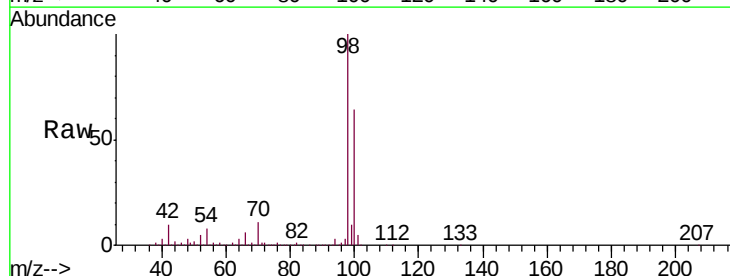
Instrument :
MSVOA_N
ClientSampleID :
MW-13B

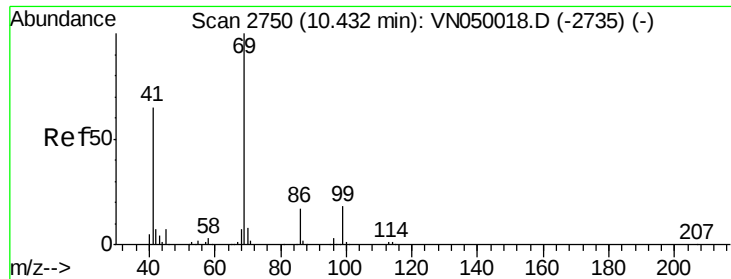
Tot Ion: 41 Resp: 1615
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 40.2 43.9 65.9#



#50
Toluene-d8
Concen: 45.64 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050112.D
Acq: 27 Jul 2018 4:29

Tgt Ion: 98 Resp: 1583299
Ion Ratio Lower Upper
98 100
100 63.4 50.7 76.1





#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.46 min Scan# 2759

Delta R.T. 0.03 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampled :

MW-13B

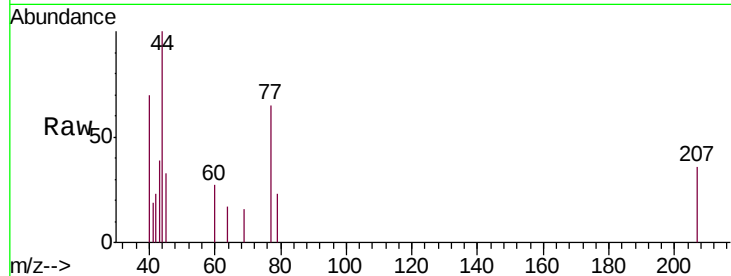
Tot Ion: 69 Resp: 61

Ion Ratio Lower Upper

69 100

41 118.0 51.0 76.4#

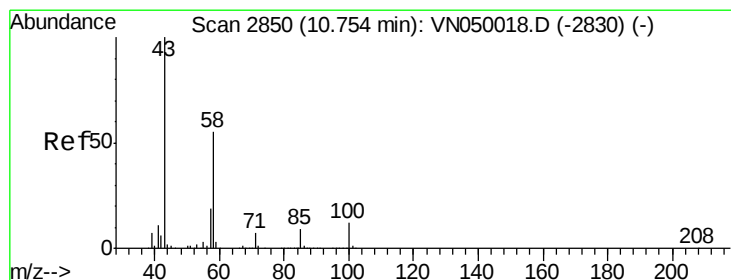
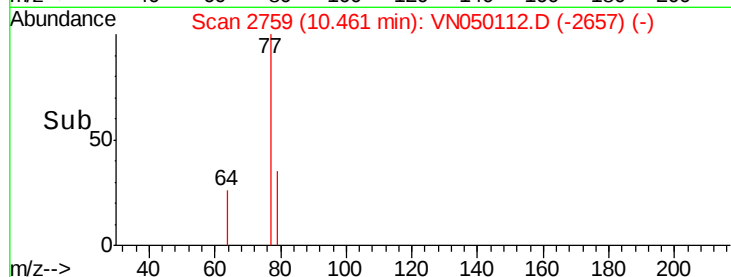
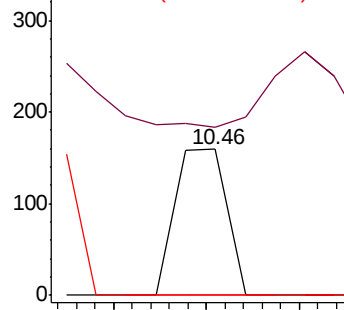
39 0.0 26.6 40.0#



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



#59

2-Hexanone

Concen: 5.23 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN050112.D

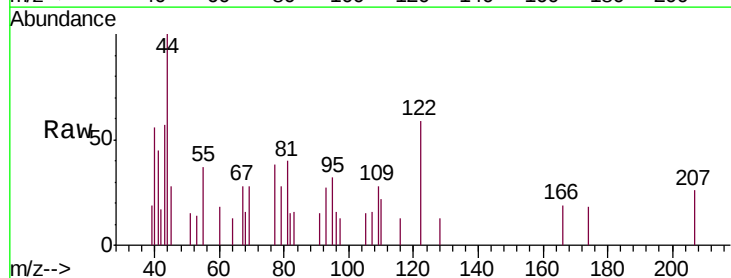
Acq: 27 Jul 2018 4:29

Tgt Ion: 43 Resp: 372

Ion Ratio Lower Upper

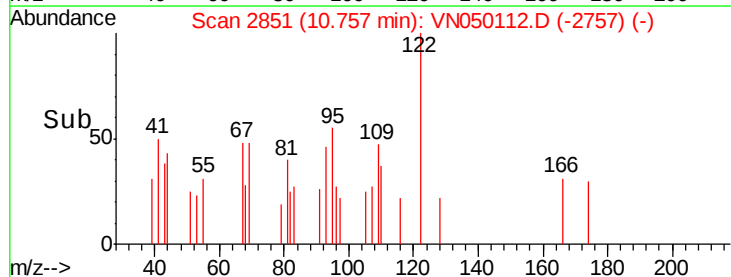
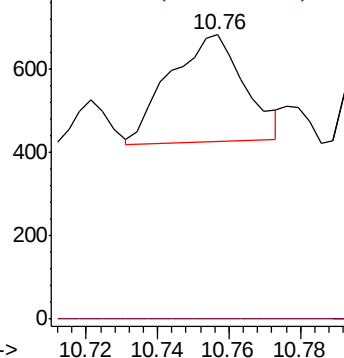
43 100

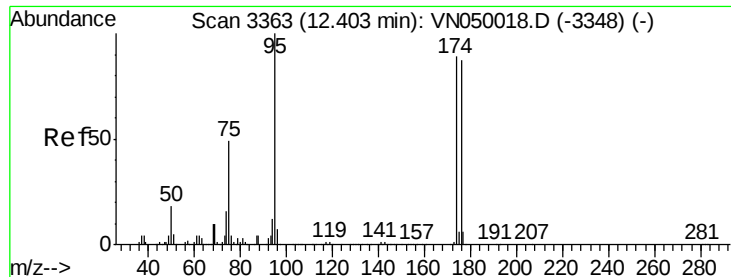
58 0.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 41.83 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampleId :

MW-13B

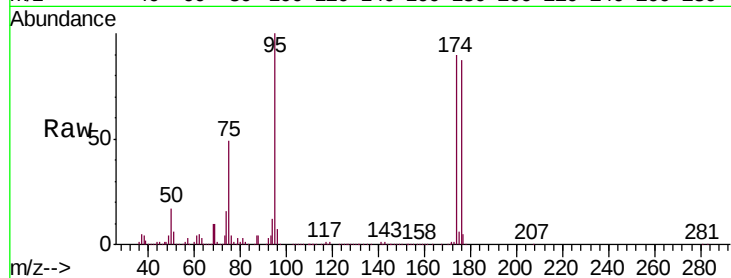
Tot Ion: 95 Resp: 477801

Ion Ratio Lower Upper

95 100

174 90.7 0.0 178.2

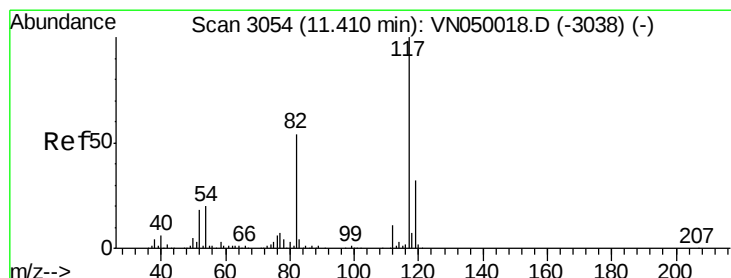
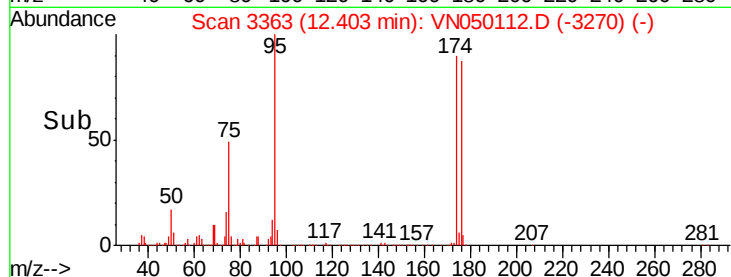
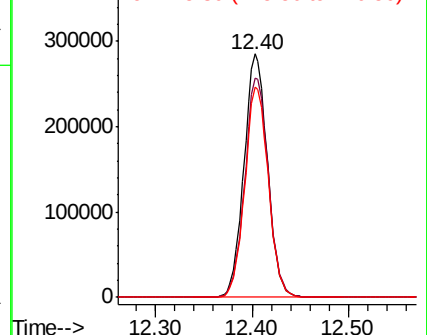
176 86.9 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050112.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN050112.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN050112.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

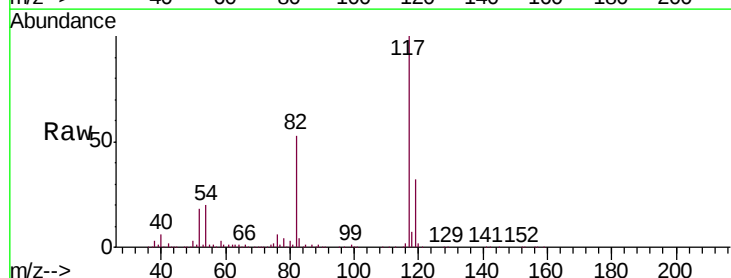
Tgt Ion: 117 Resp: 984626

Ion Ratio Lower Upper

117 100

82 53.4 43.7 65.5

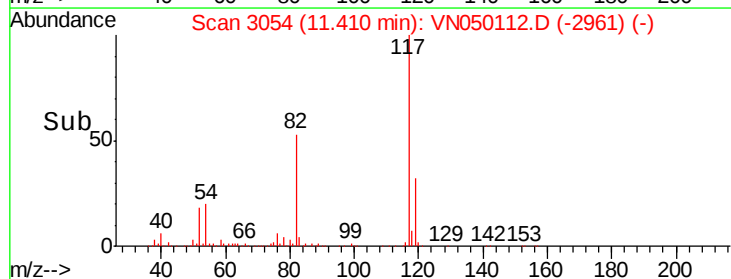
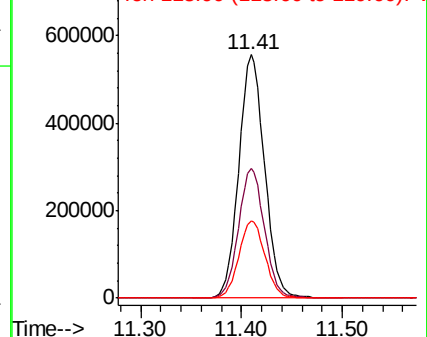
119 32.0 26.1 39.1

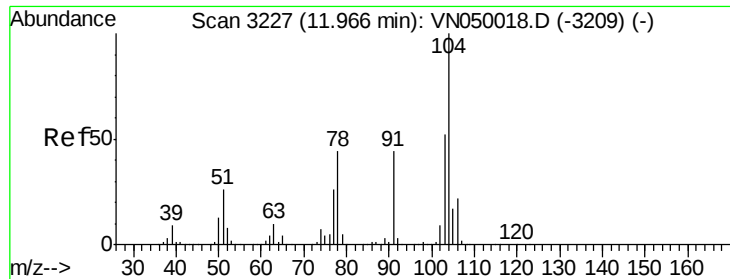


Abundance Ion 116.90 (116.60 to 117.60): VN050112.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN050112.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN050112.D (-2961) (-)





#70

Stvrene

Concen: 0.93 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampled :

MW-13B

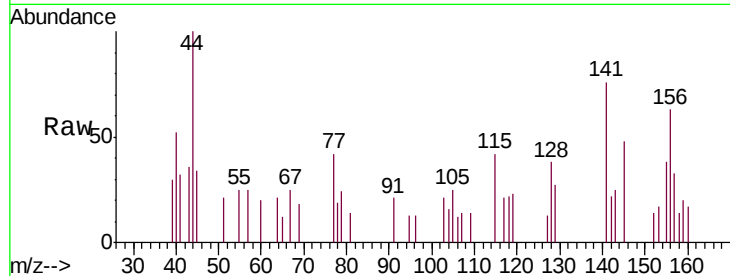
Tot Ion:104 Resp: 139

Ion Ratio Lower Upper

104 100

78 271.2 39.3 58.9#

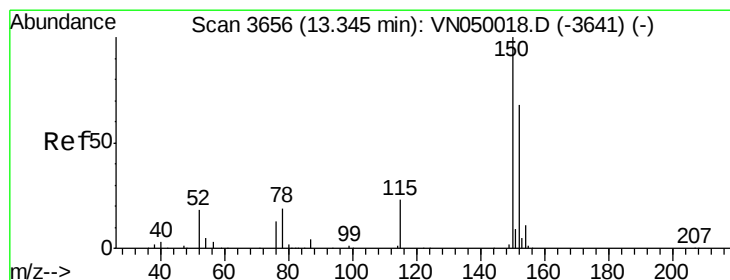
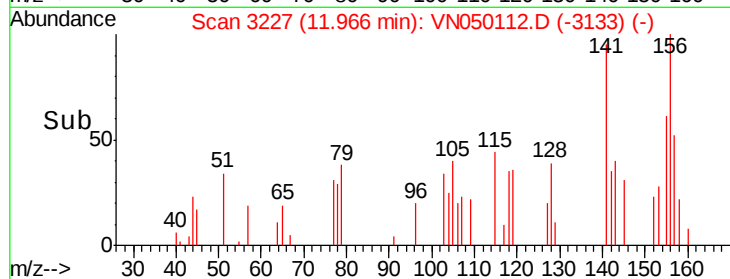
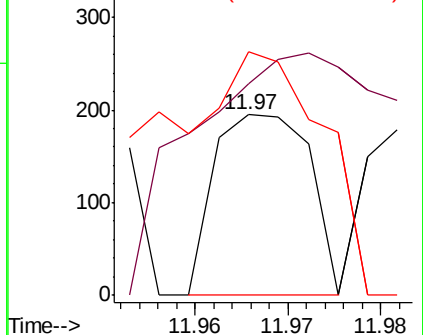
103 225.9 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

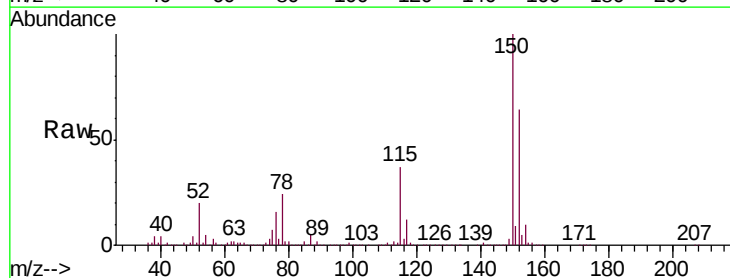
Tgt Ion:152 Resp: 391749

Ion Ratio Lower Upper

152 100

115 57.5 27.8 83.3

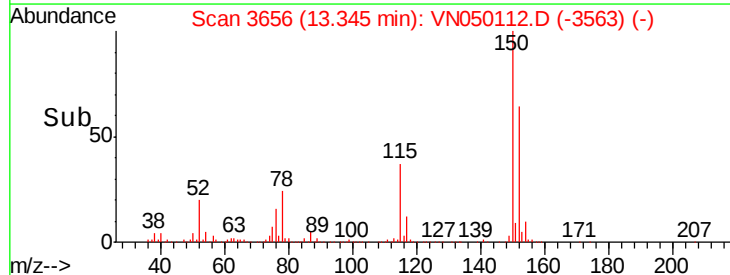
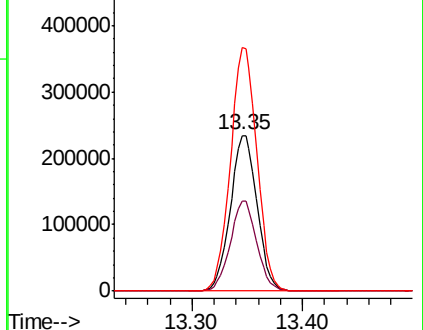
150 155.7 0.0 348.6

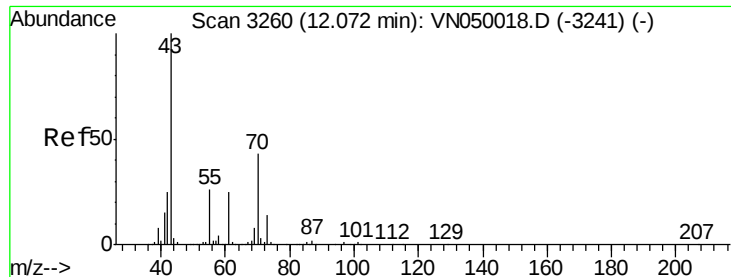


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

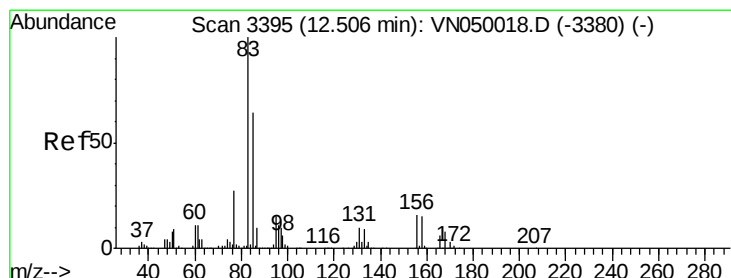
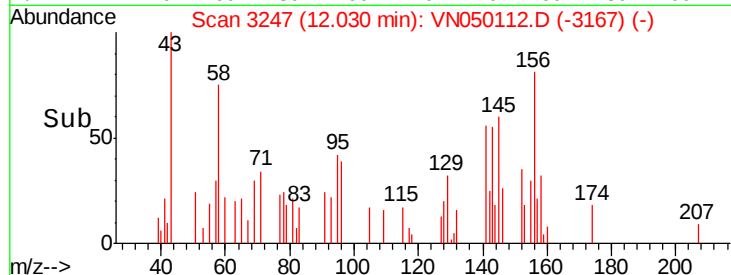
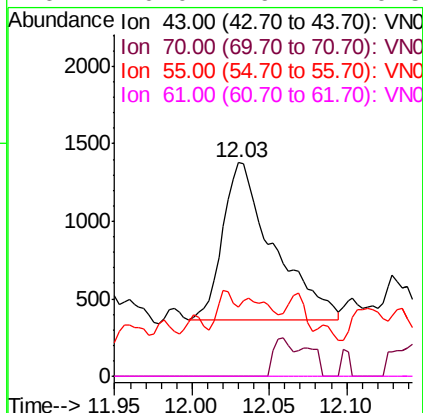
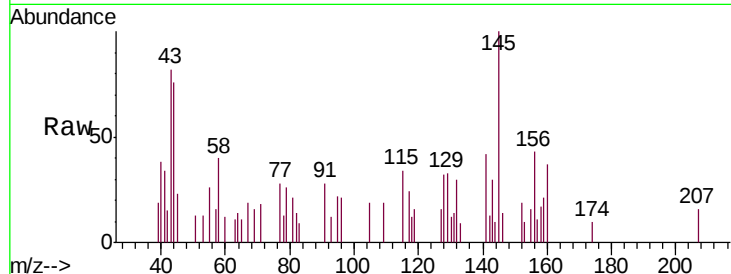




#74
N-amvl acetate
Concen: 0.25 ug/l
RT: 12.03 min Scan# 3247
Delta R.T. -0.04 min
Lab File: VN050112.D
Acq: 27 Jul 2018 4:29

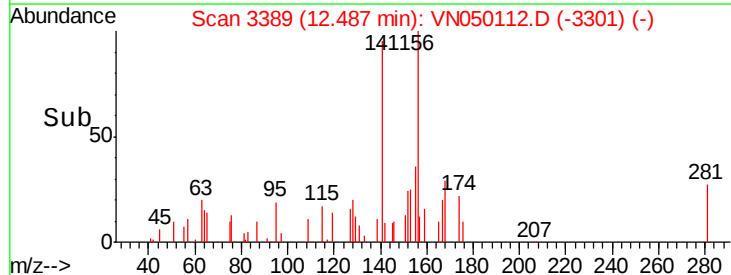
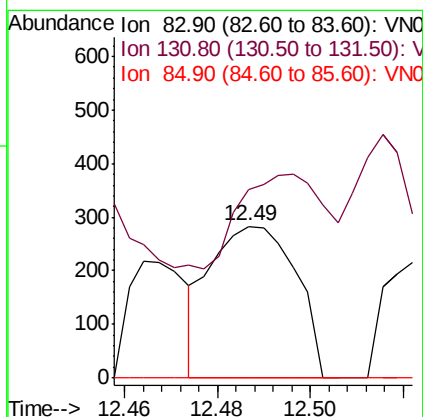
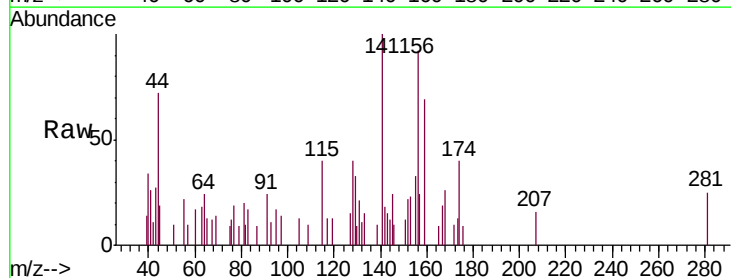
Instrument :
MSVOA_N
ClientSampled :
MW-13B

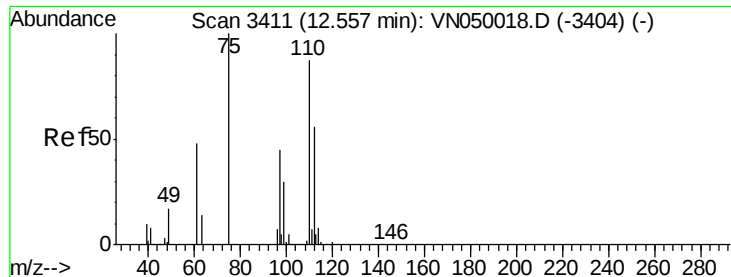
Tot Ion: 43 Resp: 2307
Ion Ratio Lower Upper
43 100
70 0.0 34.4 51.6#
55 9.0 20.8 31.2#
61 0.0 19.7 29.5#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.49 min Scan# 3389
Delta R.T. -0.02 min
Lab File: VN050112.D
Acq: 27 Jul 2018 4:29

Tgt Ion: 83 Resp: 361
Ion Ratio Lower Upper
83 100
131 61.2 5.1 15.3#
85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 32.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampleId :

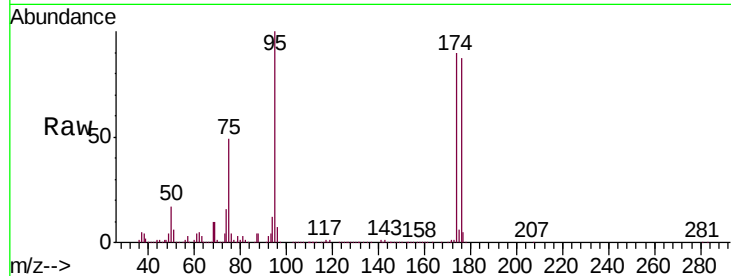
MW-13B

Tot Ion: 75 Resp: 235828

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050112.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN050112.D (-3318) (-)

12.40

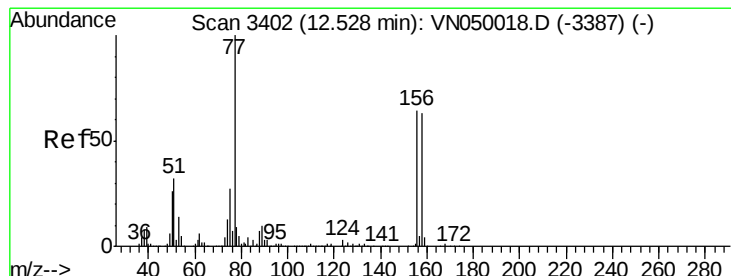
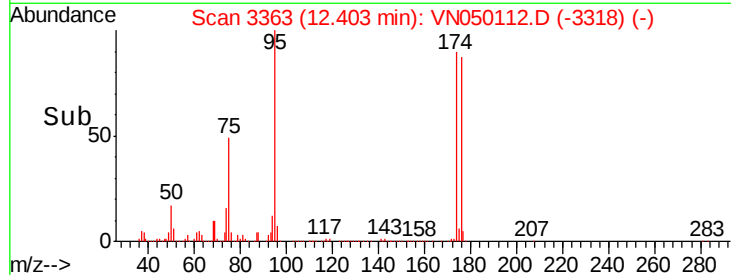
150000

100000

50000

0

Time-->



#77

Bromobenzene

Concen: 1.72 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

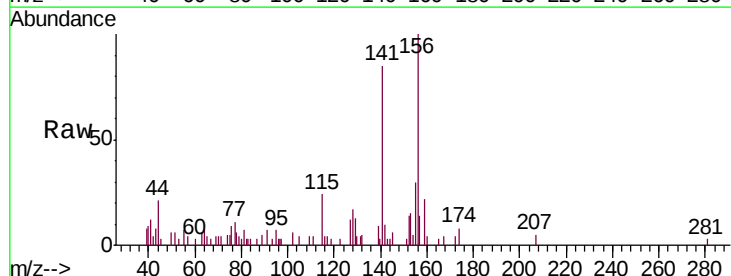
Tgt Ion: 156 Resp: 14490

Ion Ratio Lower Upper

156 100

77 0.0 91.7 275.1#

158 1.2 48.9 146.6#



Abundance Ion 155.80 (155.50 to 156.50): VN050112.D (-3309) (-)

Ion 77.00 (76.70 to 77.70): VN050112.D (-3309) (-)

Ion 157.80 (157.50 to 158.50): VN050112.D (-3309) (-)

12.53

10000

8000

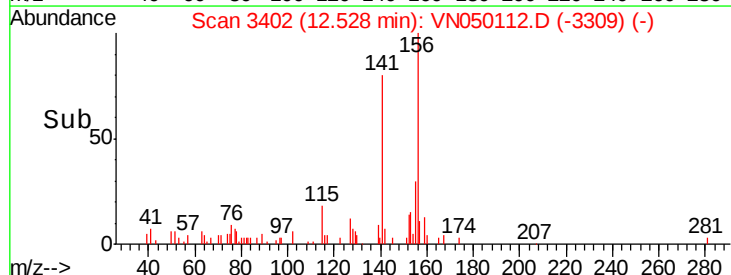
6000

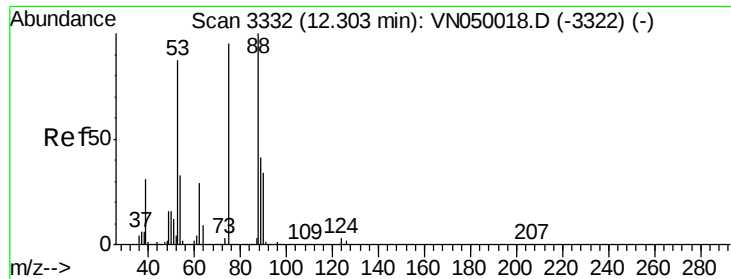
4000

2000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 102.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampleId :

MW-13B

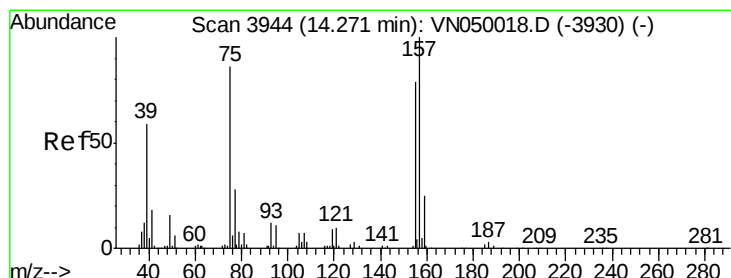
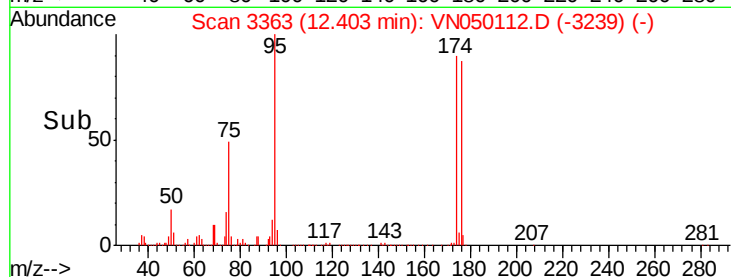
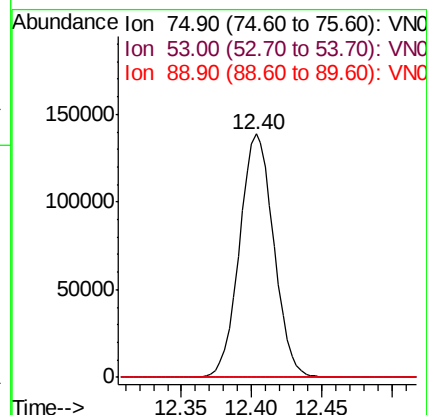
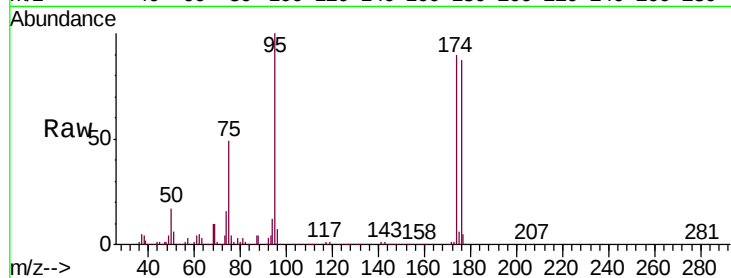
Tot Ion: 75 Resp: 235828

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.30 min Scan# 3954

Delta R.T. 0.03 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

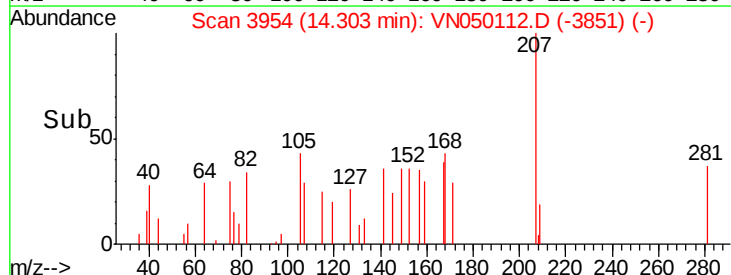
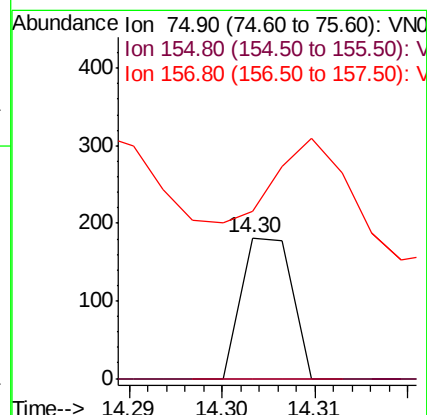
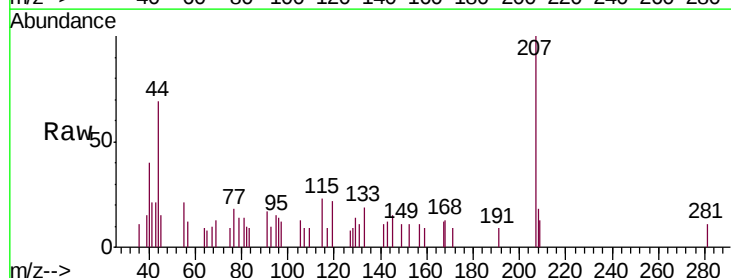
Tgt Ion: 75 Resp: 69

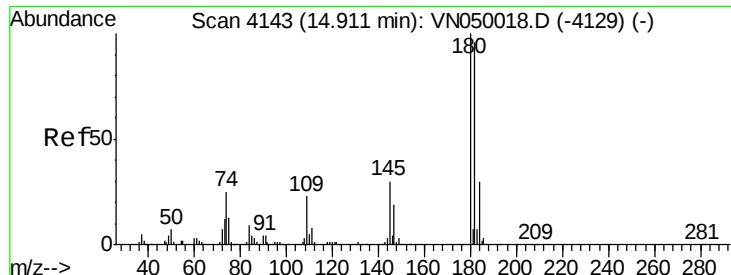
Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 194.2 57.2 171.6#





#93

1,2,4-Trichlorobenzene

Concen: 3.09 ug/l

RT: 14.73 min Scan# 4086

Delta R.T. -0.18 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

Instrument :

MSVOA_N

ClientSampleId :

MW-13B

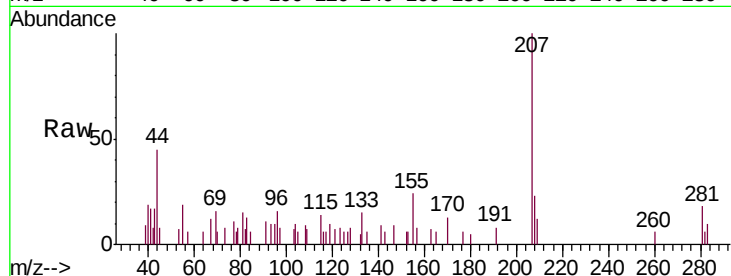
Tot Ion:180 Resp: 29

Ion Ratio Lower Upper

180 100

182 0.0 46.7 140.1#

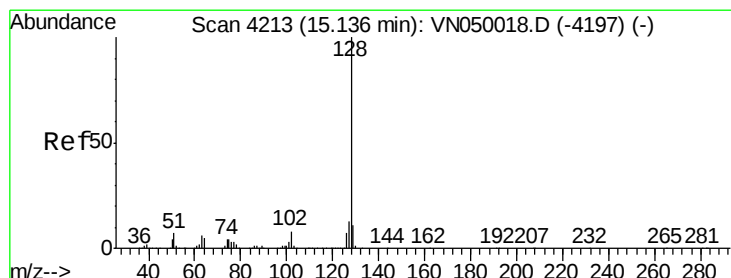
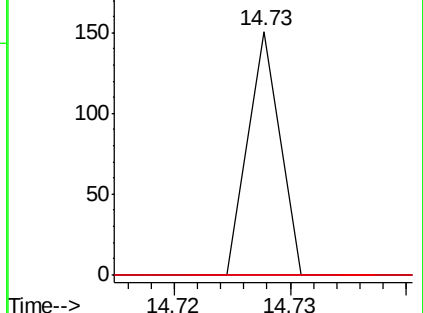
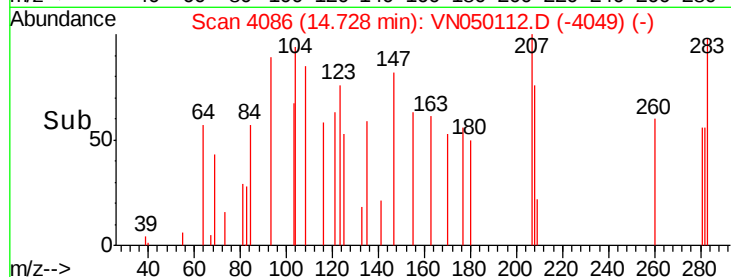
145 0.0 13.8 41.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 4.51 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050112.D

Acq: 27 Jul 2018 4:29

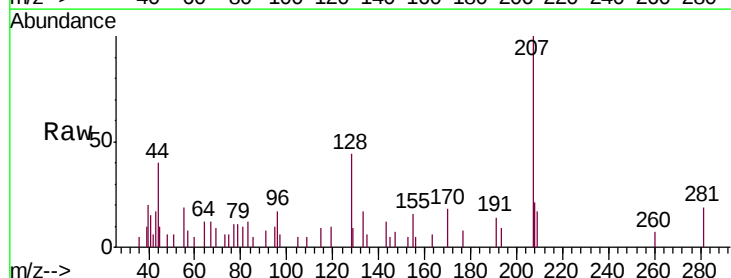
Tgt Ion:128 Resp: 1789

Ion Ratio Lower Upper

128 100

127 9.7 10.4 15.6#

129 21.2 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

