

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050116.D
 Acq On : 27 Jul 2018 6:08
 Operator : MD\SY
 Sample : J4184-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-9B

Quant Time: Jul 27 07:58:00 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	813609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1260478	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1061974	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	437017	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	518517	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
35) Dibromofluoromethane	7.59	113	469979	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	
50) Toluene-d8	10.09	98	1714166	45.31	ug/l	0.00
Spiked Amount			Recovery	=	90.62%	
62) 4-Bromofluorobenzene	12.40	95	506301	40.64	ug/l	0.00
Spiked Amount			Recovery	=	81.28%	

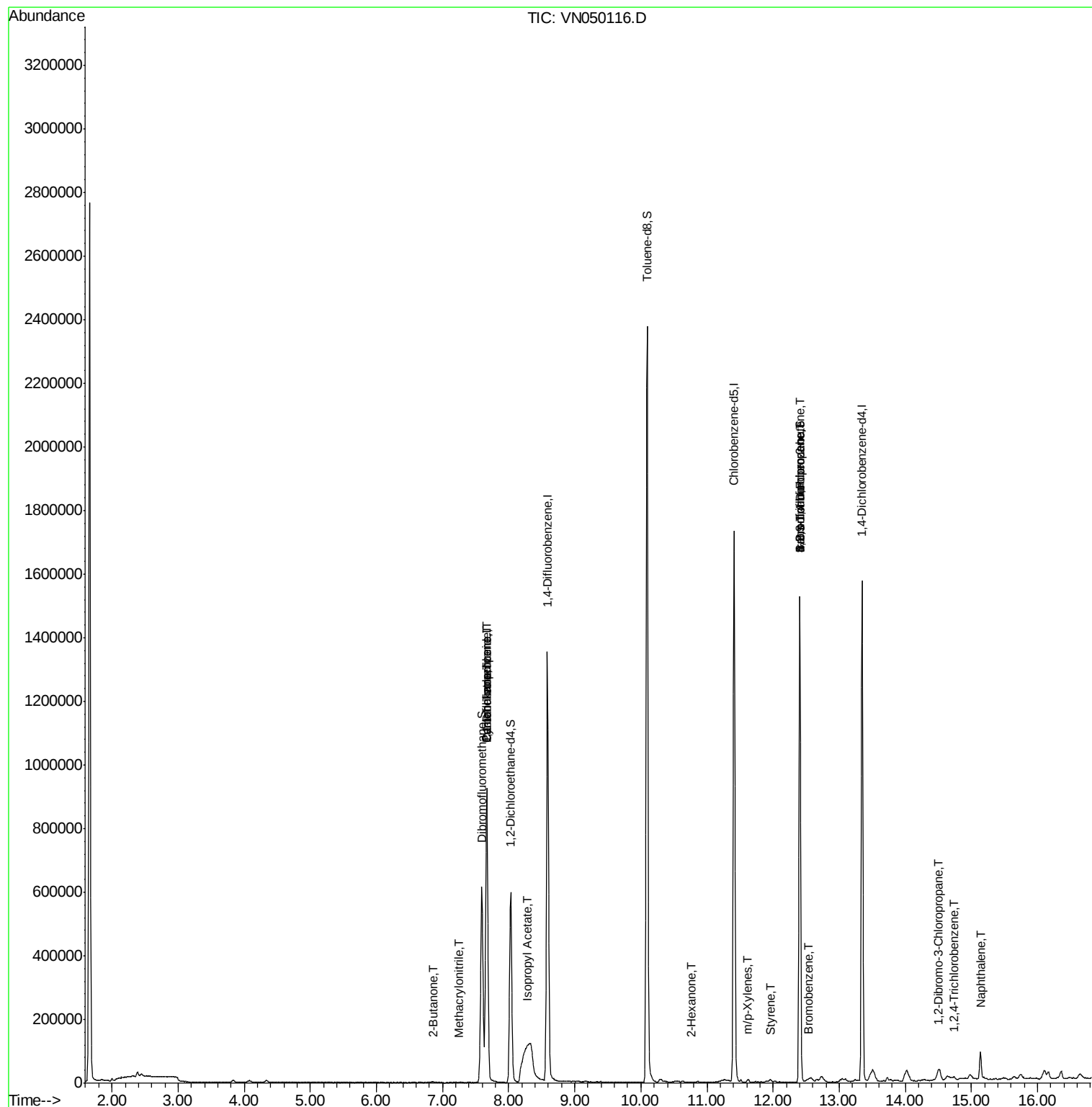
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	422	Below Cal		94
18) Methyl Acetate	4.33	43	13313	Below Cal		98
20) Methylene Chloride	4.54	84	152	Below Cal	#	43
25) 2-Butanone	6.85	43	2985	0.69	ug/l #	82
31) Cyclohexane	7.67	56	14545	0.86	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	54739	3.85	ug/l #	48
38) Carbon Tetrachloride	7.67	117	72566	4.82	ug/l #	16
41) Methacrylonitrile	7.25	41	29	2.75	ug/l #	10
43) Isopropyl Acetate	8.27	43	189513	9.23	ug/l #	61
59) 2-Hexanone	10.76	43	249	5.21	ug/l #	41
68) m/p-Xylenes	11.62	106	3594	0.22	ug/l	89
70) Styrene	11.97	104	707	0.95	ug/l #	84
71) Bromoform	12.40	173	4155	0.55	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.45	83	31	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	251147	30.92	ug/l #	100
77) Bromobenzene	12.52	156	3432	0.37	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	251147	98.08	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.50	75	1740	0.35	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.75	180	59	3.09	ug/l #	35
95) Naphthalene	15.14	128	72728	7.74	ug/l	98

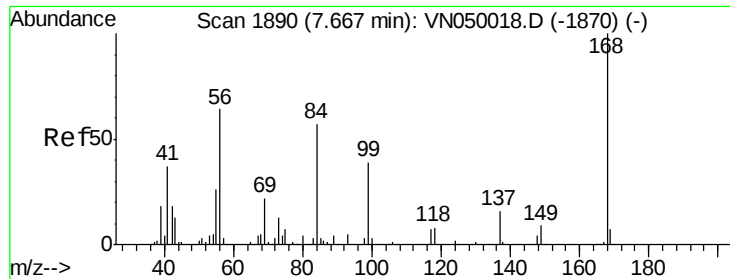
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampleId :

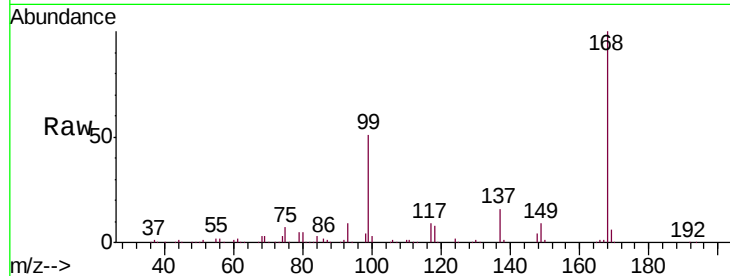
MW-9B

Tot Ion:168 Resp: 813609

Ion Ratio Lower Upper

168 100

99 50.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050018.D (-1870) (-)

7.67

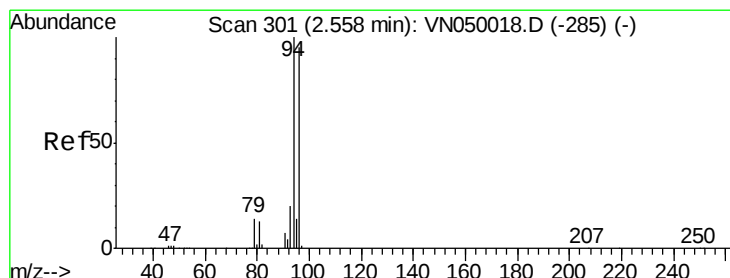
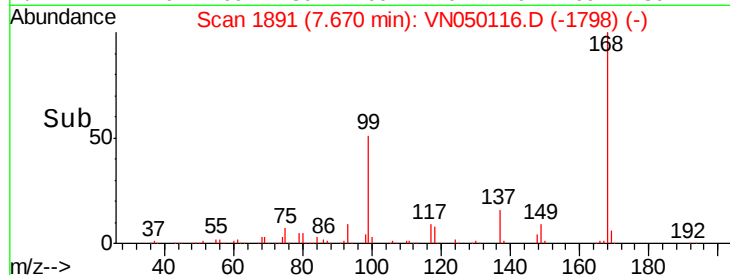
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050116.D

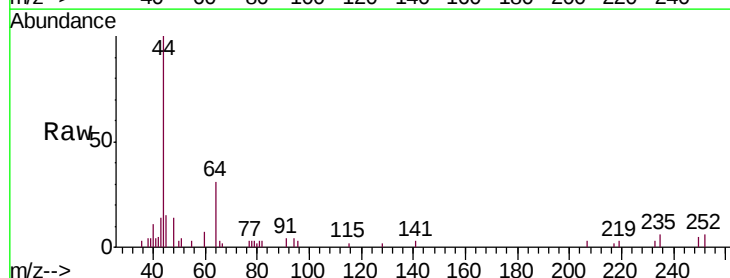
Acq: 27 Jul 2018 6:08

Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

94 100

96 87.2 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050018.D (-285) (-)

Ion 95.90 (95.60 to 96.60): VN050018.D (-285) (-)

2.56

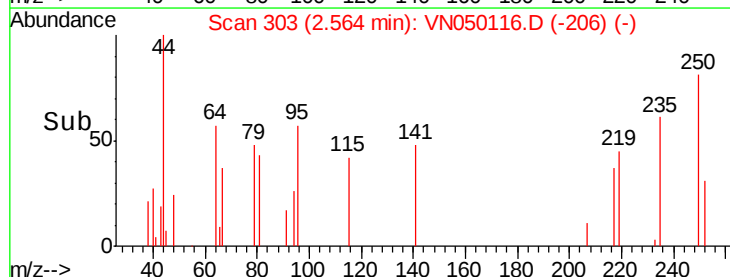
300

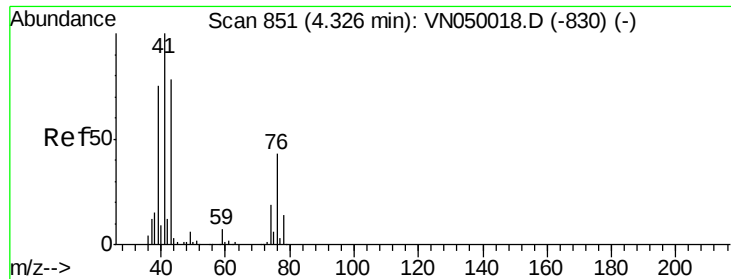
200

100

0

Time-->

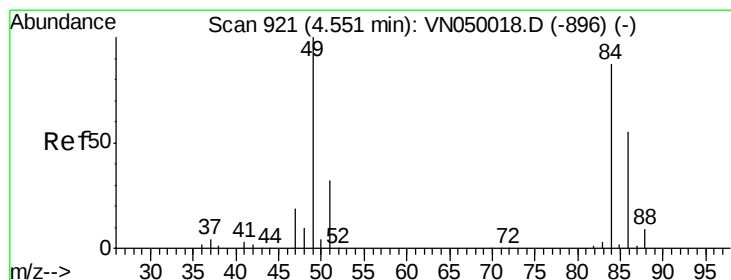
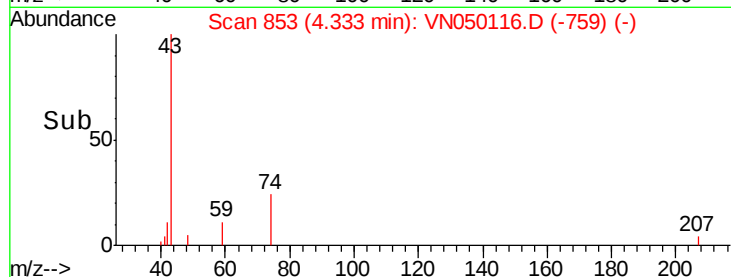
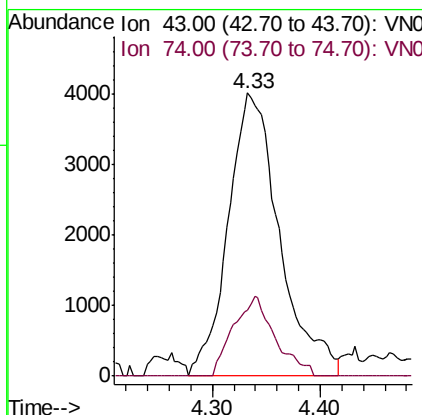
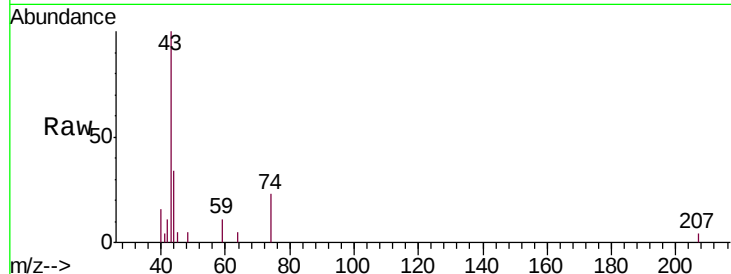




#18
Methvl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050116.D
Acq: 27 Jul 2018 6:08

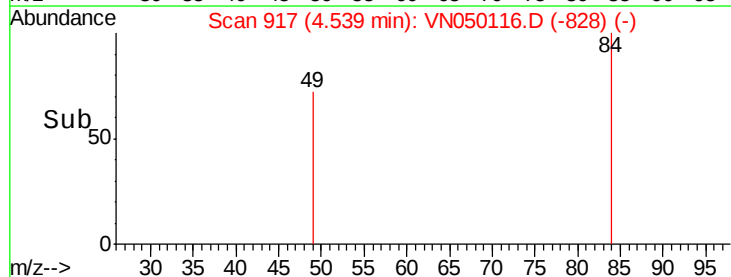
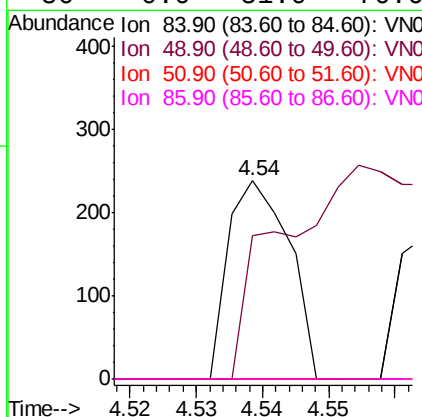
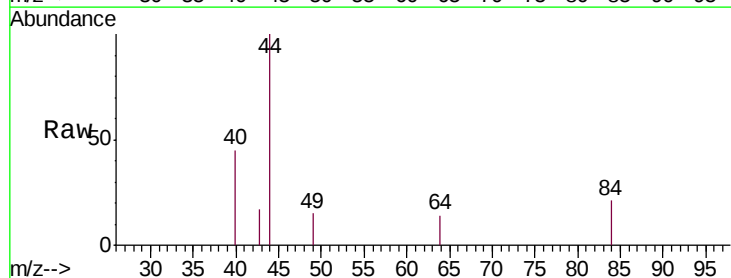
Instrument :
MSVOA_N
ClientSampleId :
MW-9B

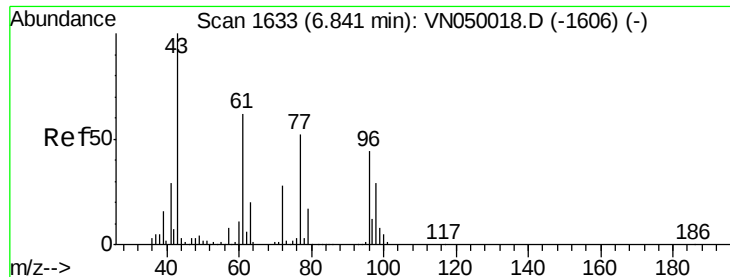
Tot Ion: 43 Resp: 13313
Ion Ratio Lower Upper
43 100
74 22.9 19.2 28.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 917
Delta R.T. -0.01 min
Lab File: VN050116.D
Acq: 27 Jul 2018 6:08

Tgt Ion: 84 Resp: 152
Ion Ratio Lower Upper
84 100
49 72.3 94.8 142.2#
51 0.0 28.3 42.5#
86 0.0 51.0 76.6#





#25

2-Butanone

Concen: 0.69 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampled :

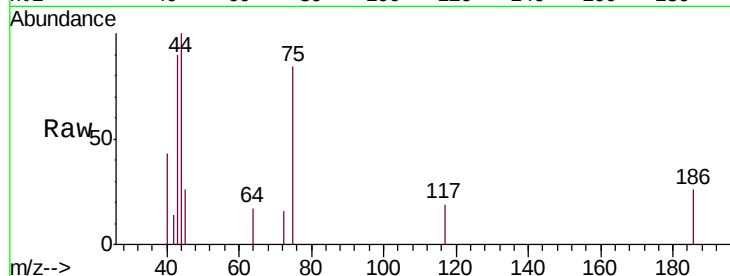
MW-9B

Tot Ion: 43 Resp: 2985

Ion Ratio Lower Upper

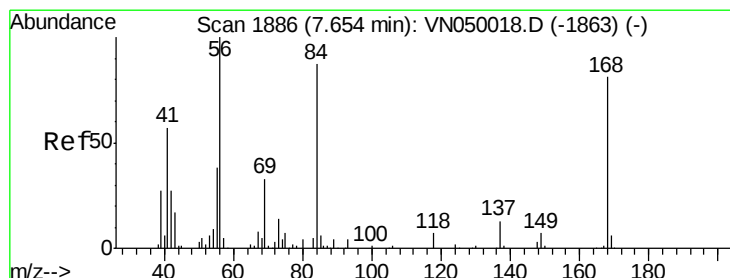
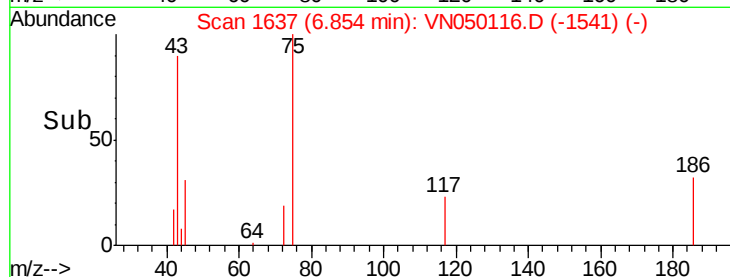
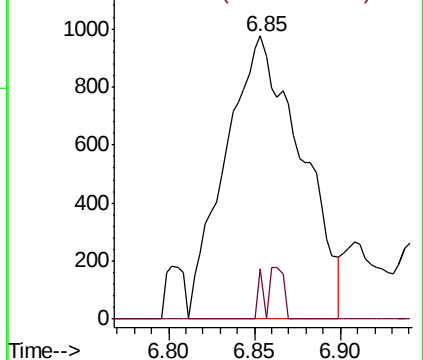
43 100

72 17.7 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.86 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

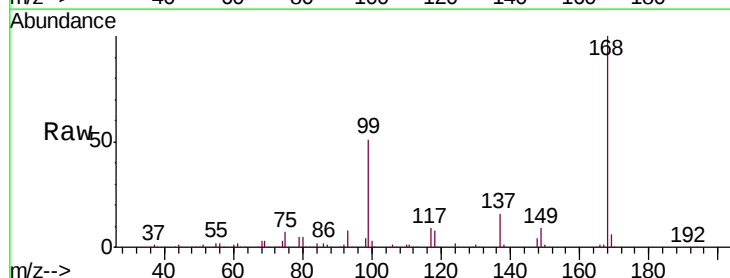
Tgt Ion: 56 Resp: 14545

Ion Ratio Lower Upper

56 100

69 178.4 26.2 39.4#

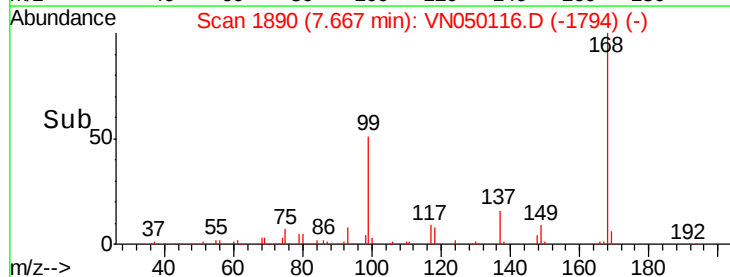
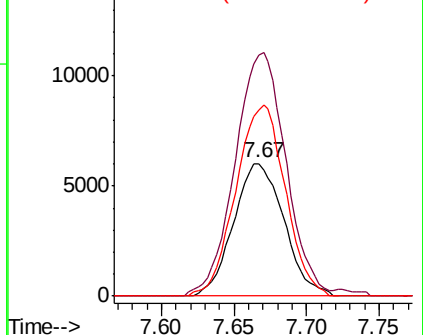
84 139.9 67.4 101.0#

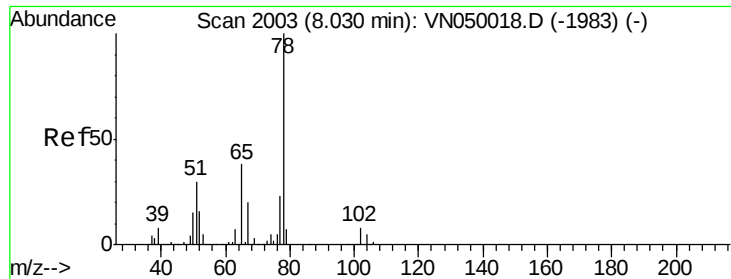


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

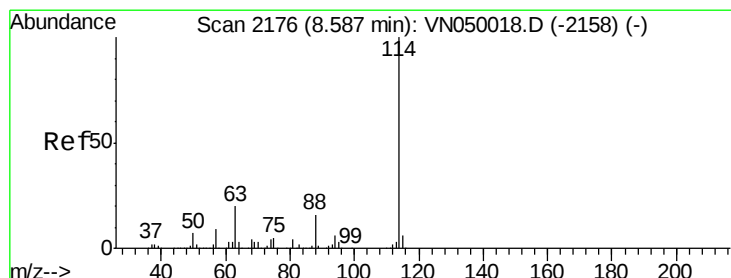
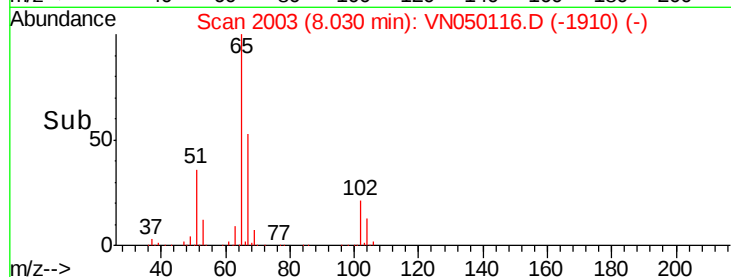
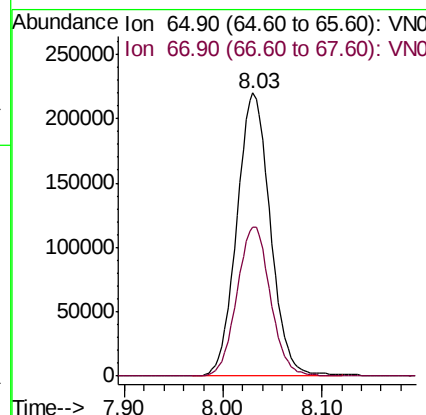
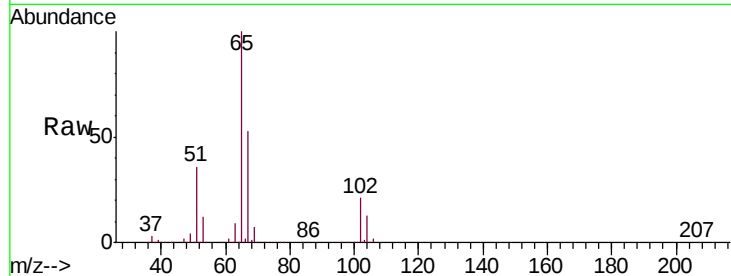




#33
 1,2-Dichloroethane-d4
 Concen: 45.68 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050116.D
 Acq: 27 Jul 2018 6:08

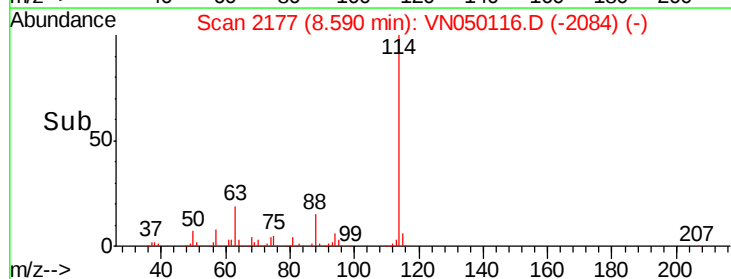
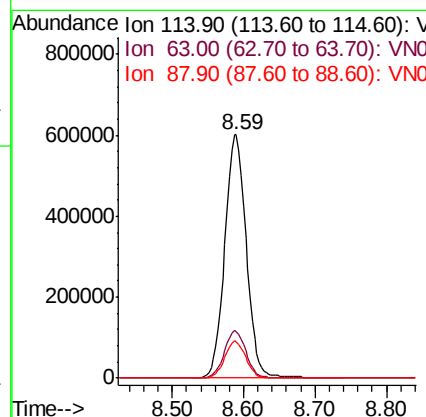
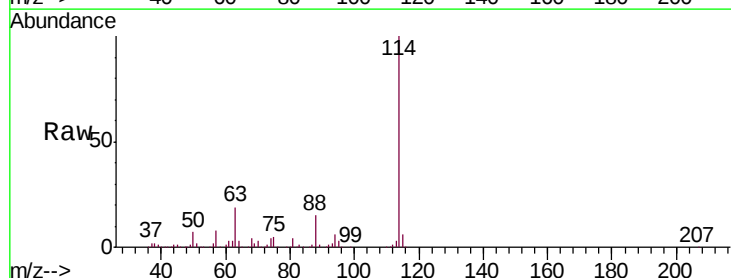
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-9B

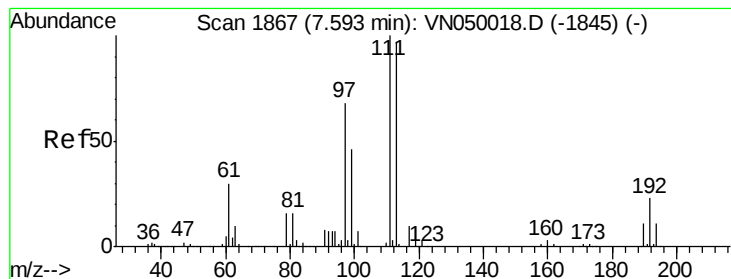
Tot Ion: 65 Resp: 518517
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050116.D
 Acq: 27 Jul 2018 6:08

Tgt Ion: 114 Resp: 1260478
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.1 0.0 31.2





#35

Dibromofluoromethane

Concen: 45.67 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampleId :

MW-9B

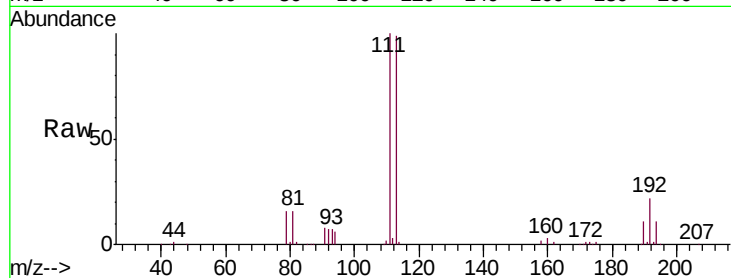
Tot Ion:113 Resp: 469979

Ion Ratio Lower Upper

113 100

111 101.7 80.7 121.1

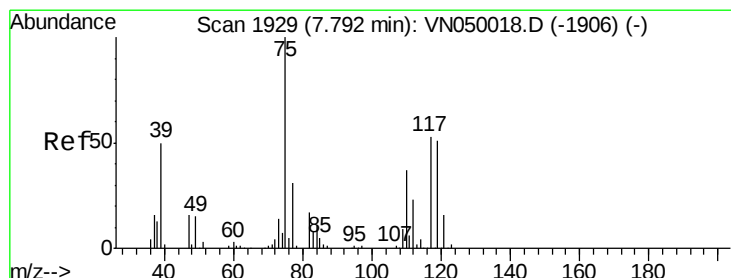
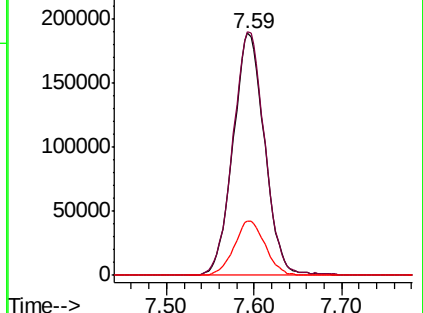
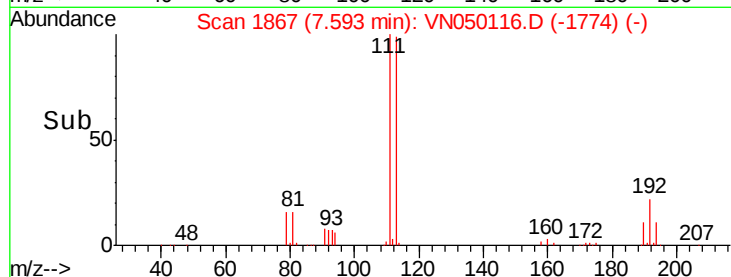
192 22.3 17.8 26.6



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: 3.85 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

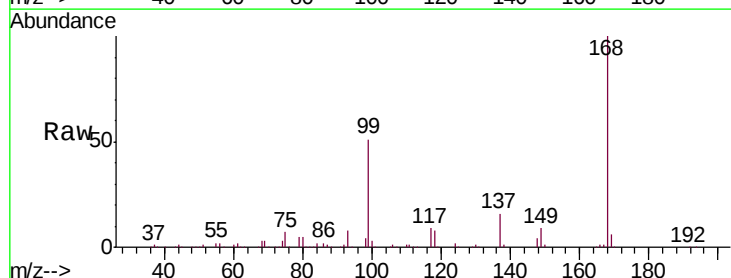
Tgt Ion: 75 Resp: 54739

Ion Ratio Lower Upper

75 100

110 9.0 18.4 55.2#

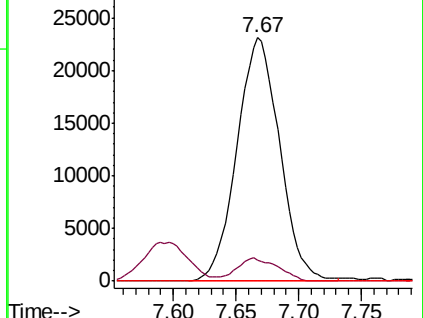
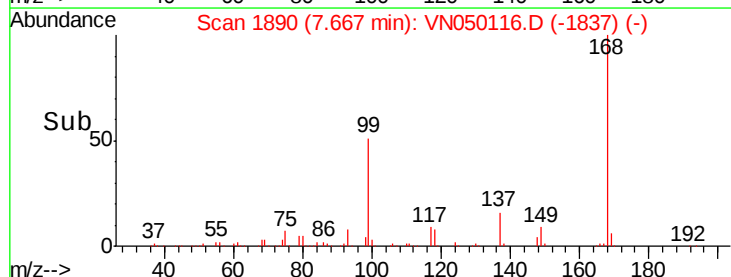
77 0.0 25.3 37.9#

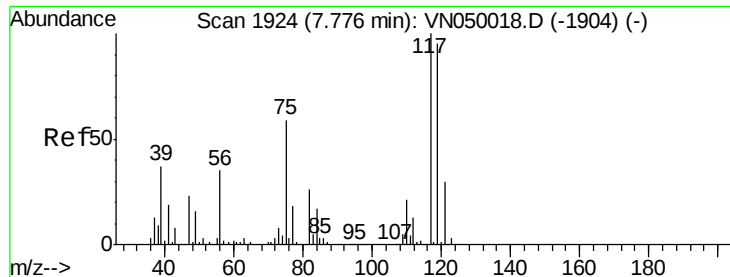


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.82 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampleId :

MW-9B

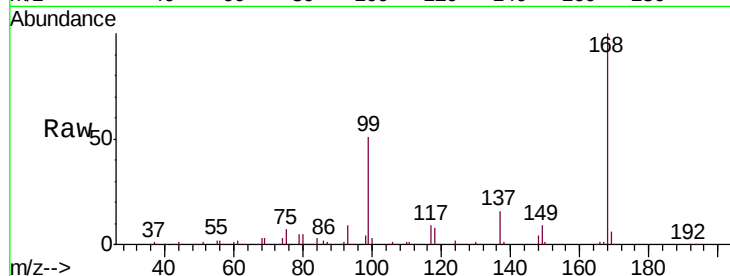
Tot Ion:117 Resp: 72566

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

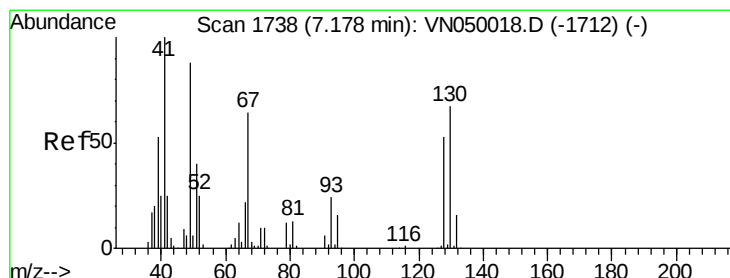
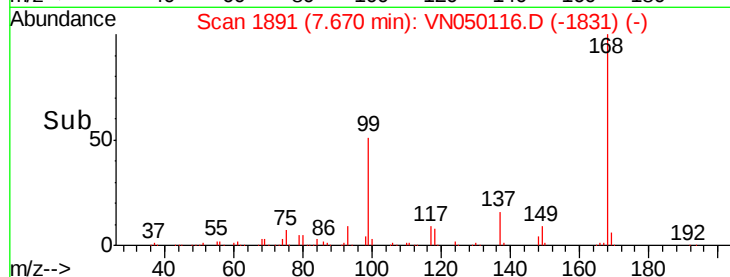
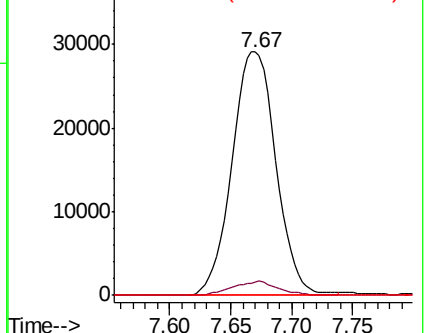
121 0.0 23.9 35.9#



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



#41

Methacrylonitrile

Concen: 2.75 ug/l

RT: 7.25 min Scan# 1759

Delta R.T. 0.07 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Tgt Ion: 41 Resp: 29

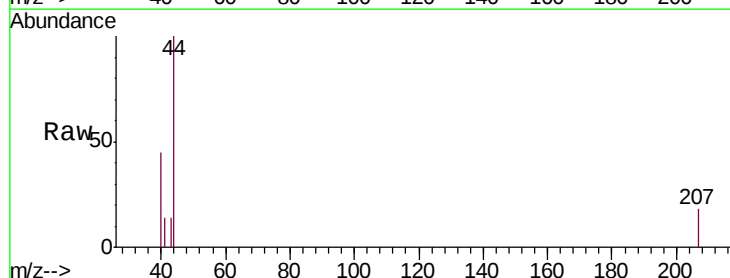
Ion Ratio Lower Upper

41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

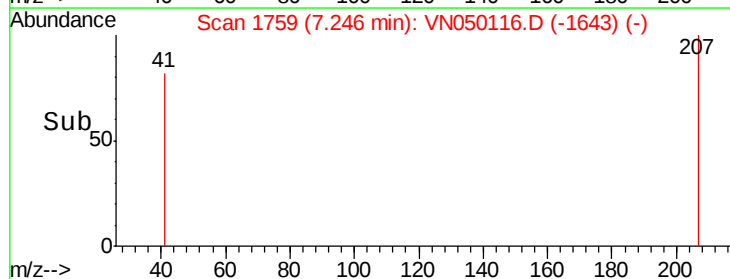
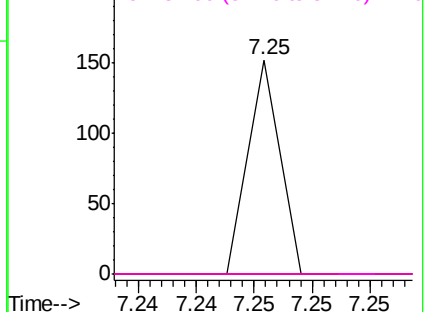


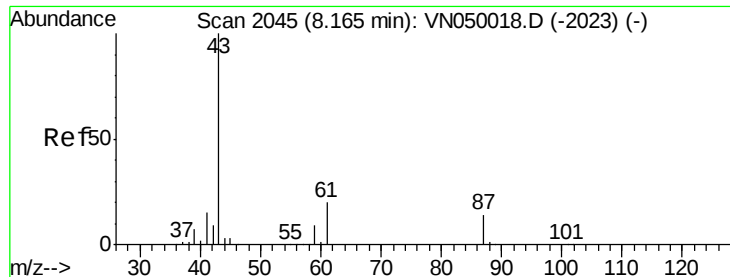
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 9.23 ug/l

RT: 8.27 min Scan# 2079

Delta R.T. 0.11 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampleId :

MW-9B

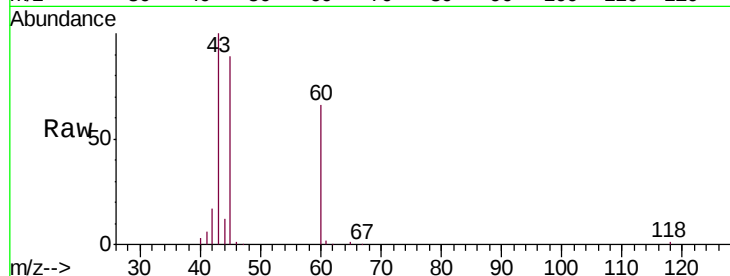
Tot Ion: 43 Resp: 189513

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

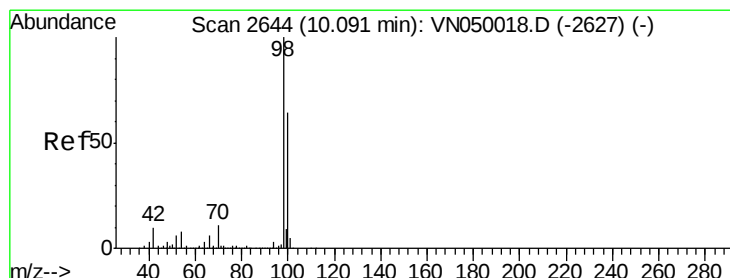
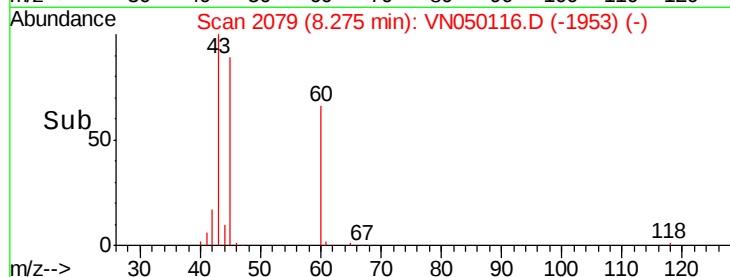
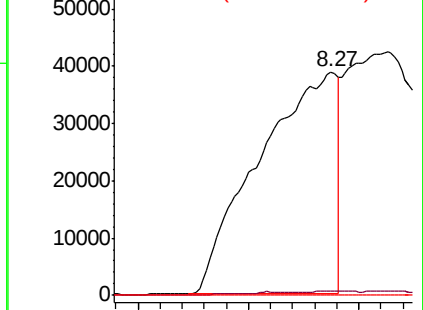
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 45.31 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050116.D

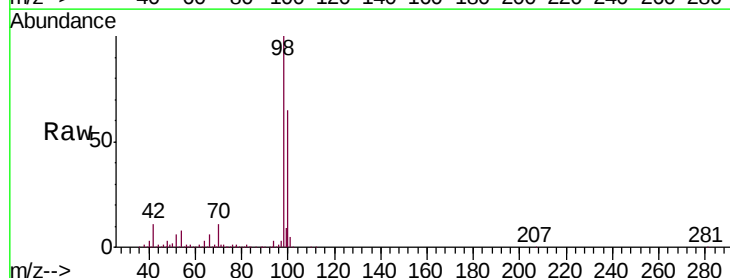
Acq: 27 Jul 2018 6:08

Tgt Ion: 98 Resp: 1714166

Ion Ratio Lower Upper

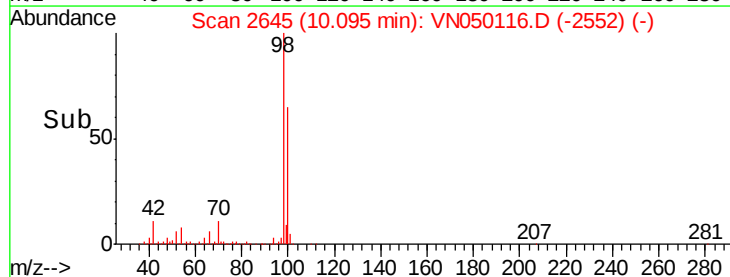
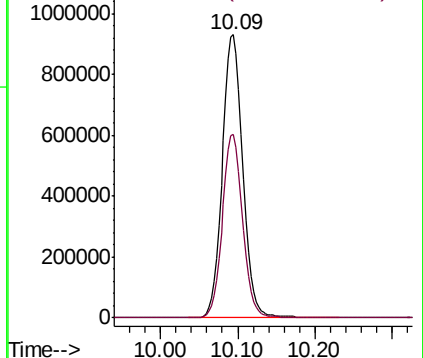
98 100

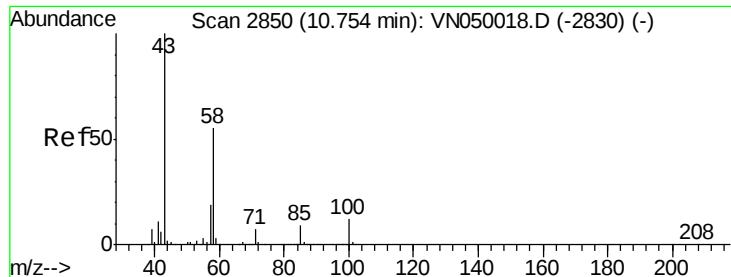
100 64.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#59

2-Hexanone

Concen: 5.21 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampled :

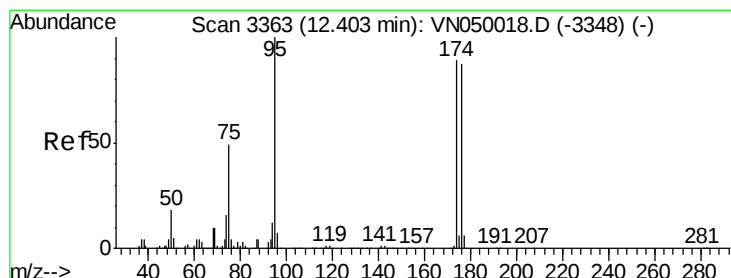
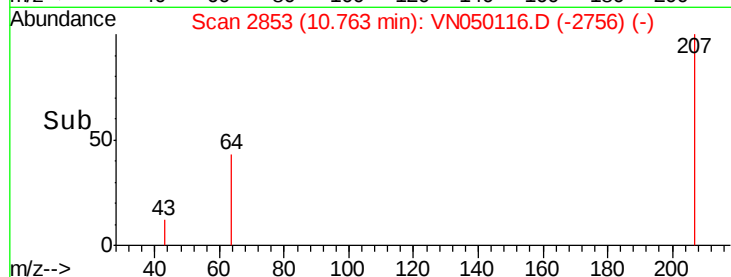
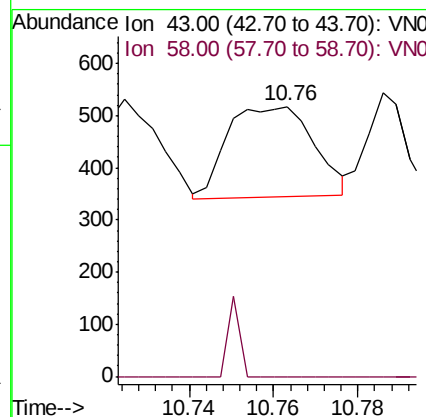
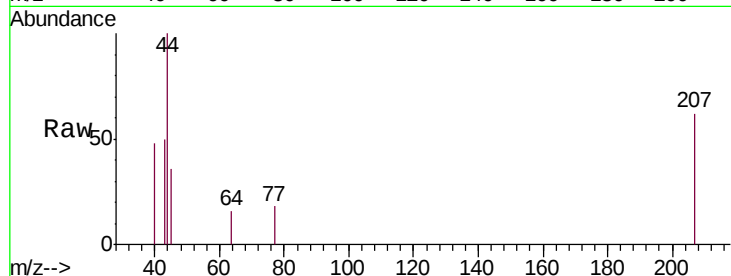
MW-9B

Tot Ion: 43 Resp: 249

Ion Ratio Lower Upper

43 100

58 12.0 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 40.64 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

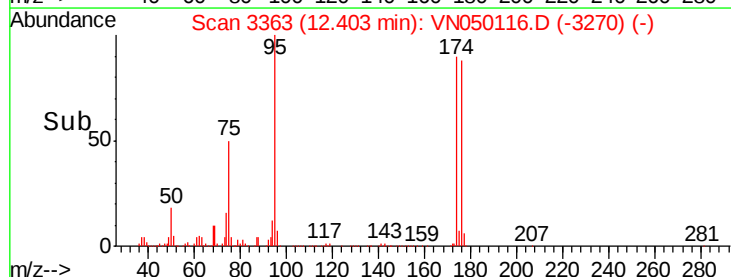
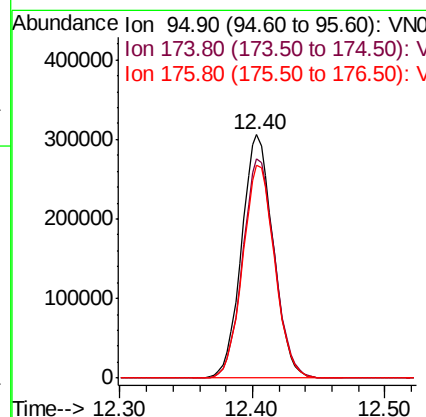
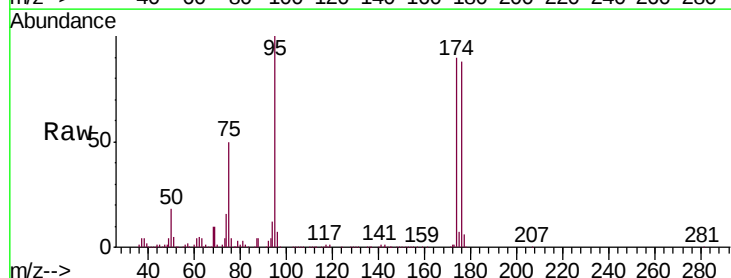
Tgt Ion: 95 Resp: 506301

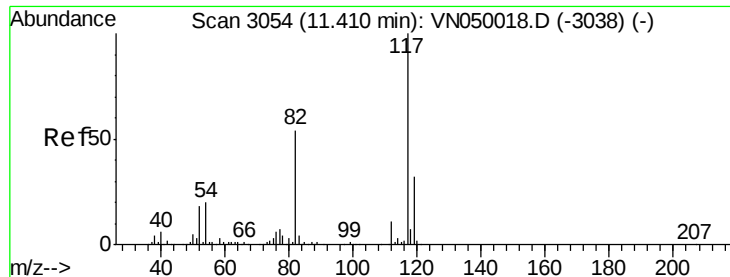
Ion Ratio Lower Upper

95 100

174 91.2 0.0 178.2

176 88.3 0.0 173.4

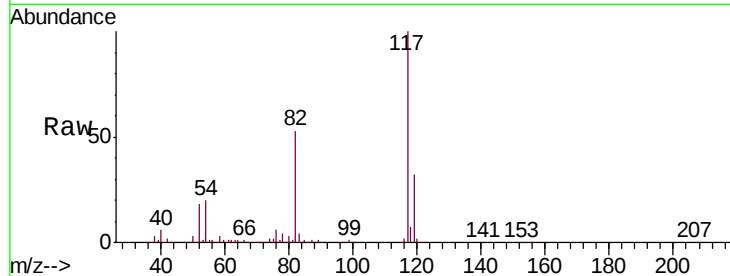




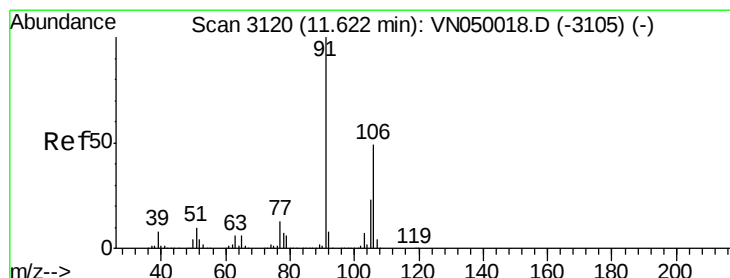
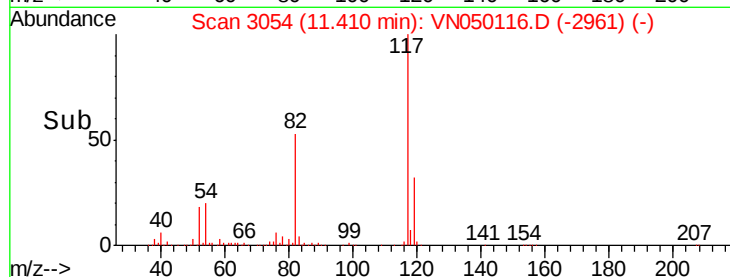
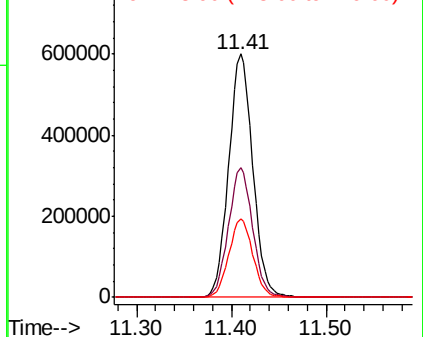
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050116.D
Acq: 27 Jul 2018 6:08

Instrument :
MSVOA_N
ClientSampled :
MW-9B

Tot Ion:117 Resp: 1061974
Ion Ratio Lower Upper
117 100
82 53.5 43.7 65.5
119 32.3 26.1 39.1

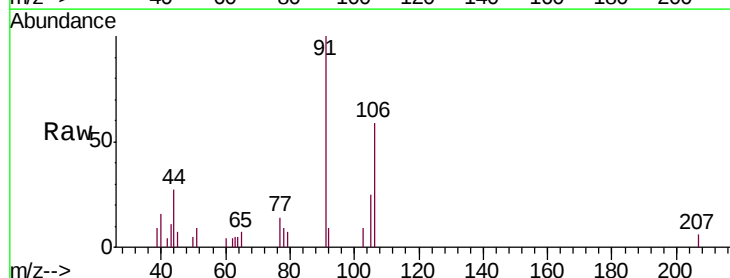


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

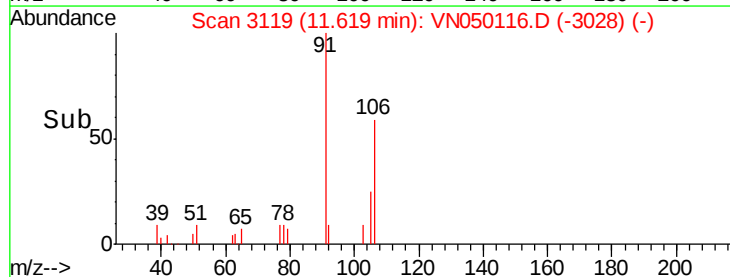
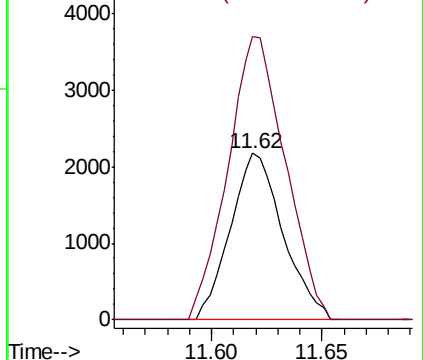


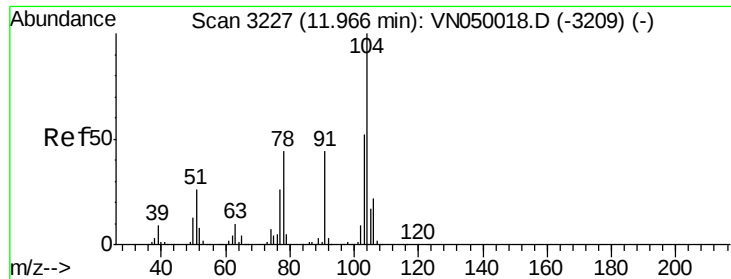
#68
m/p-Xylenes
Concen: 0.22 ug/l
RT: 11.62 min Scan# 3119
Delta R.T. -0.01 min
Lab File: VN050116.D
Acq: 27 Jul 2018 6:08

Tgt Ion:106 Resp: 3594
Ion Ratio Lower Upper
106 100
91 185.9 162.2 243.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

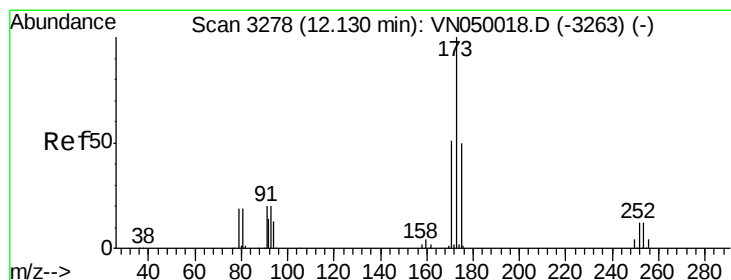
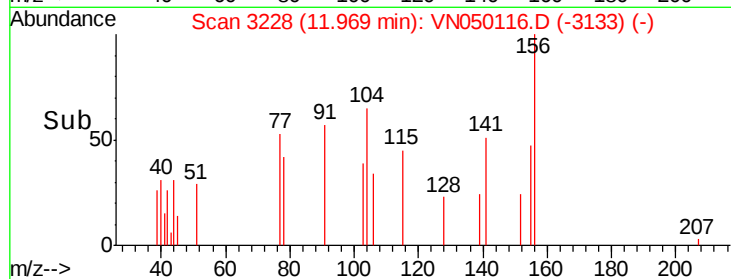
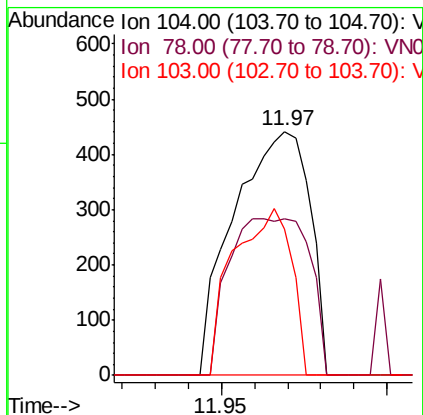
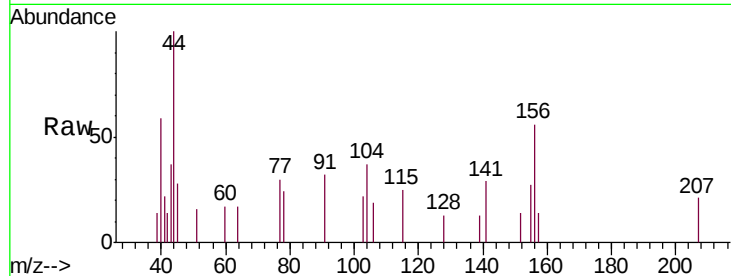




#70
Stvrene
Concen: 0.95 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050116.D
Acq: 27 Jul 2018 6:08

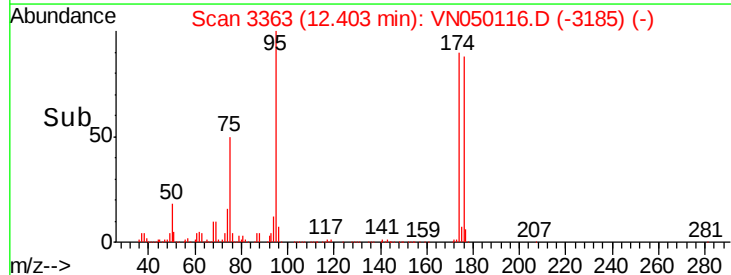
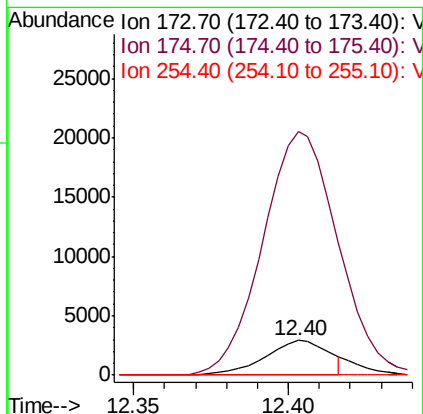
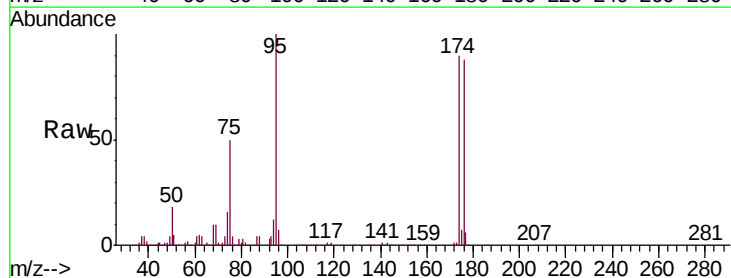
Instrument :
MSVOA_N
ClientSampled :
MW-9B

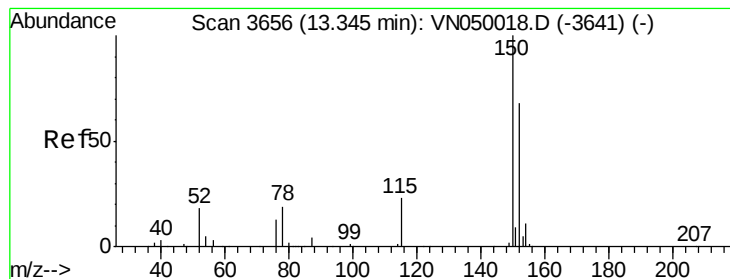
Tot Ion:104 Resp: 707
Ion Ratio Lower Upper
104 100
78 67.6 39.3 58.9#
103 51.8 45.0 67.6



#71
Bromoform
Concen: 0.55 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.27 min
Lab File: VN050116.D
Acq: 27 Jul 2018 6:08

Tgt Ion:173 Resp: 4155
Ion Ratio Lower Upper
173 100
175 735.9 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: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampled :

MW-9B

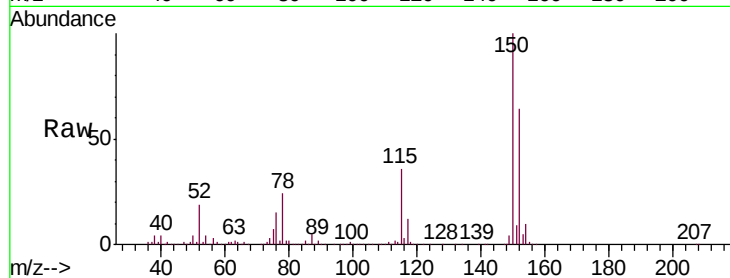
Tot Ion:152 Resp: 437017

Ion Ratio Lower Upper

152 100

115 56.4 27.8 83.3

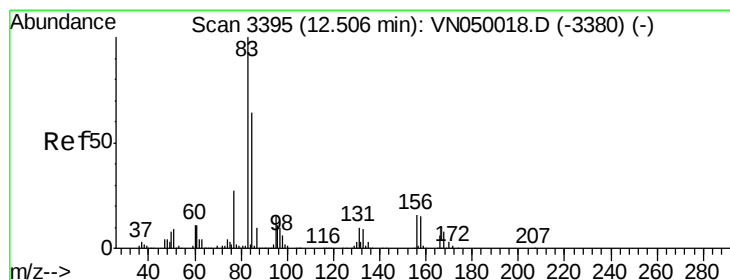
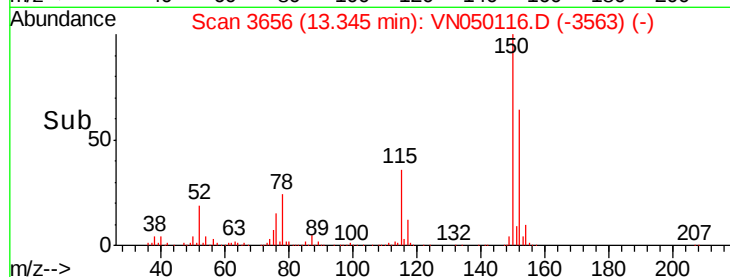
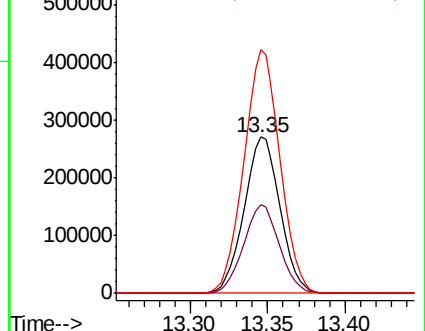
150 156.5 0.0 348.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.45 min Scan# 3377

Delta R.T. -0.06 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

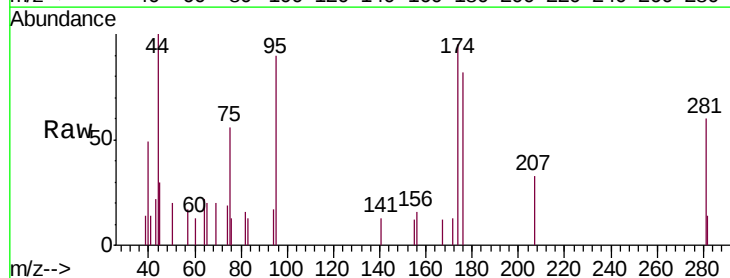
Tgt Ion: 83 Resp: 31

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

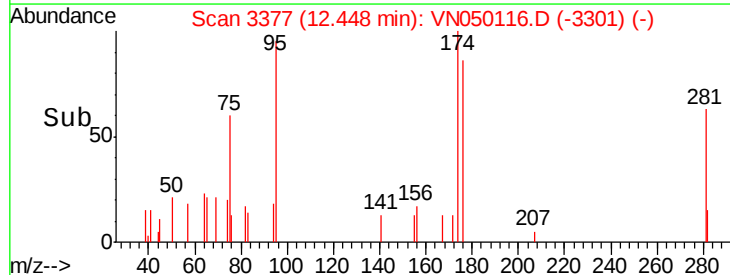
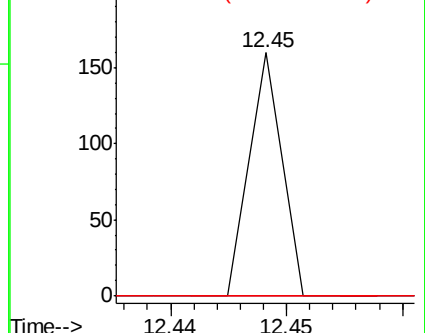
85 0.0 32.3 96.8#

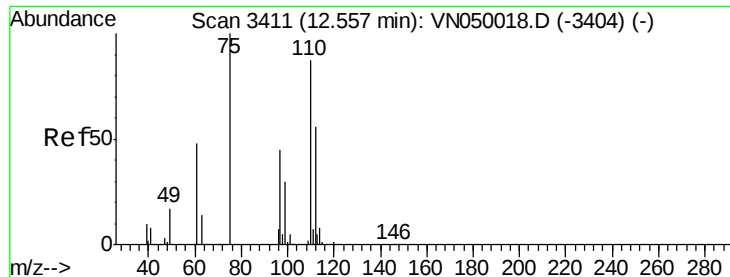


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 30.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampled :

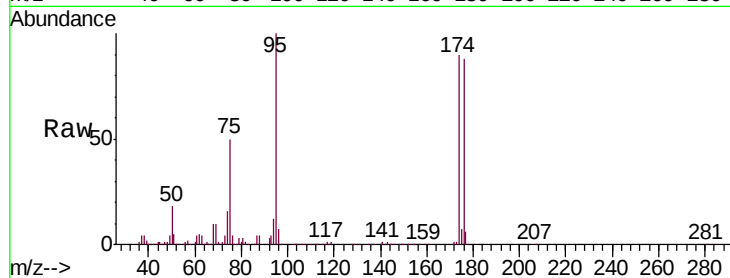
MW-9B

Tot Ion: 75 Resp: 251147

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3404) (-)

Ion 77.00 (76.70 to 77.70): VN050018.D (-3404) (-)

12.40

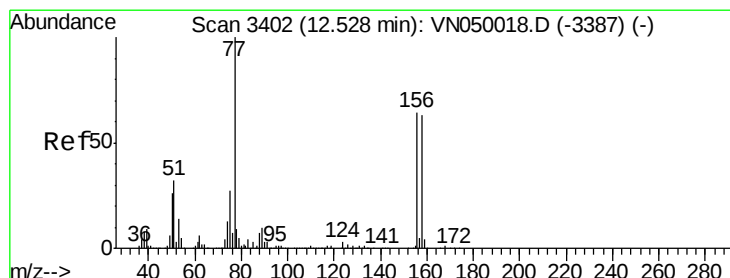
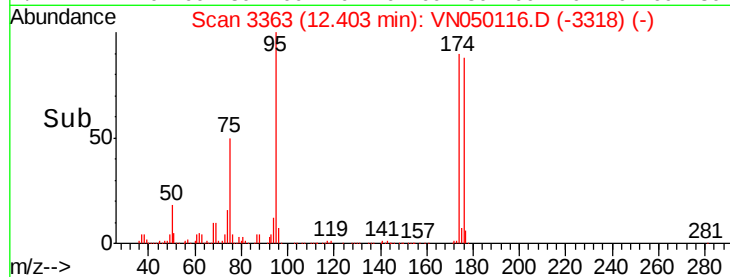
150000

100000

50000

0

Time-->



#77

Bromobenzene

Concen: 0.37 ug/l

RT: 12.52 min Scan# 3399

Delta R.T. -0.01 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

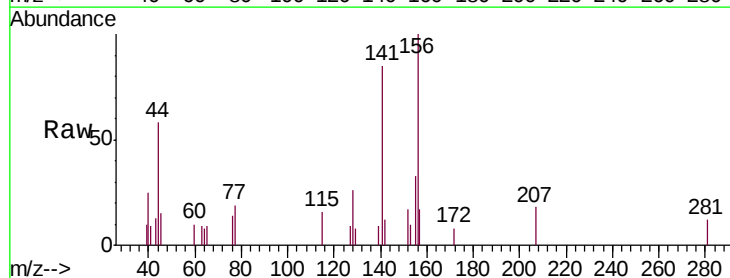
Tgt Ion: 156 Resp: 3432

Ion Ratio Lower Upper

156 100

77 20.8 91.7 275.1#

158 0.0 48.9 146.6#



Abundance Ion 155.80 (155.50 to 156.50): VN050018.D (-3387) (-)

Ion 77.00 (76.70 to 77.70): VN050018.D (-3387) (-)

Ion 157.80 (157.50 to 158.50): VN050018.D (-3387) (-)

4000

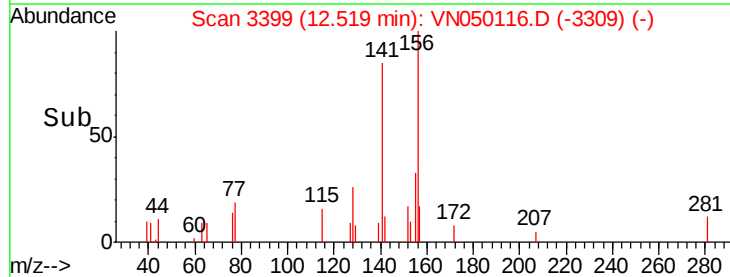
3000

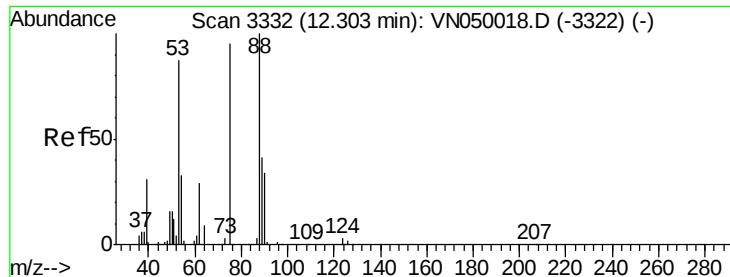
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 98.08 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampleId :

MW-9B

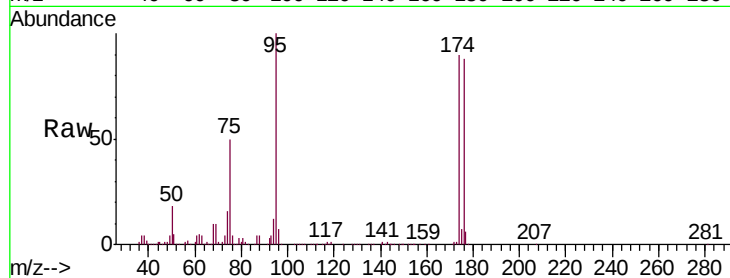
Tot Ion: 75 Resp: 251147

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

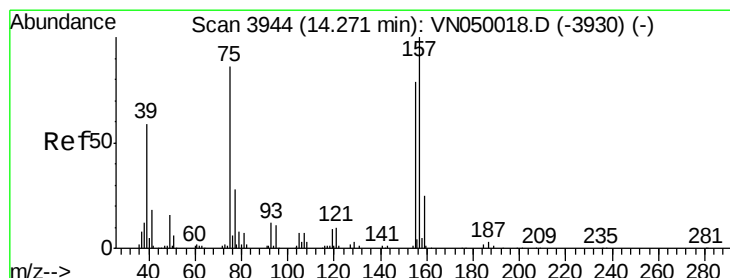
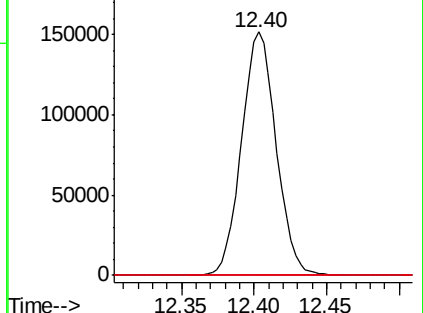
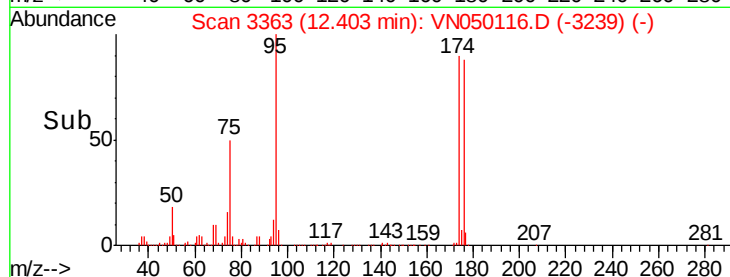
89 0.0 36.0 54.0#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.35 ug/l

RT: 14.50 min Scan# 4016

Delta R.T. 0.23 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

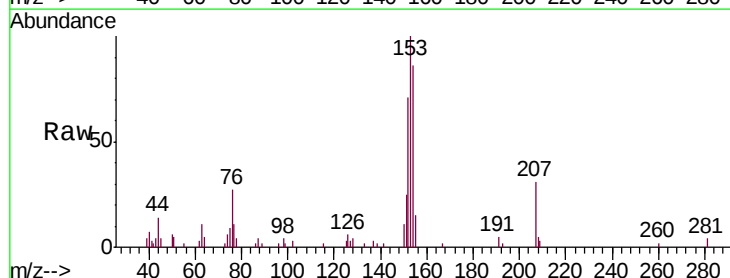
Tgt Ion: 75 Resp: 1740

Ion Ratio Lower Upper

75 100

155 221.9 44.8 134.4#

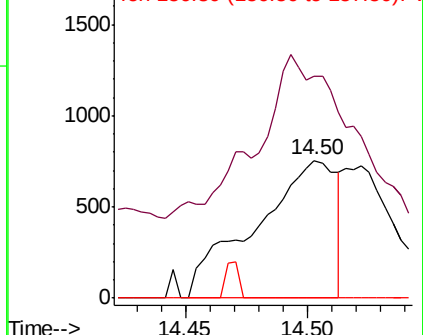
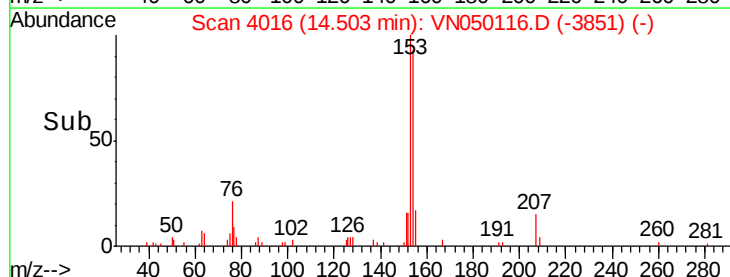
157 0.0 57.2 171.6#

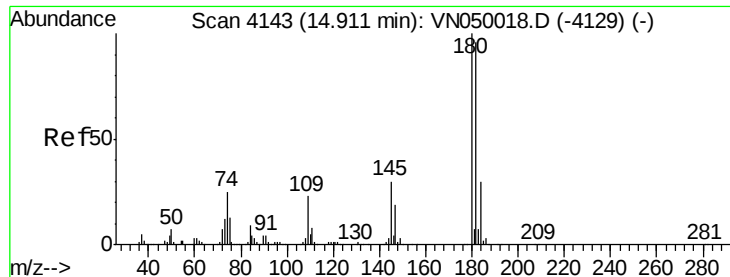


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 3.09 ug/l

RT: 14.75 min Scan# 4092

Delta R.T. -0.16 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

Instrument :

MSVOA_N

ClientSampled :

MW-9B

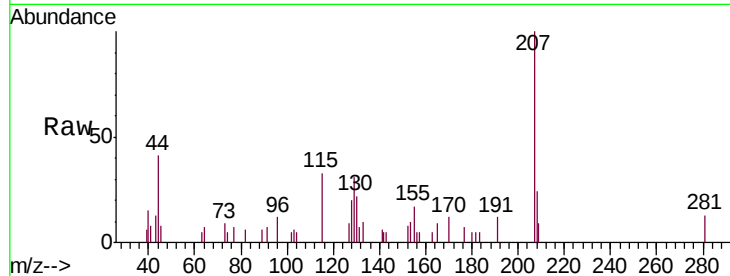
Tot Ion:180 Resp: 59

Ion Ratio Lower Upper

180 100

182 159.3 46.7 140.1#

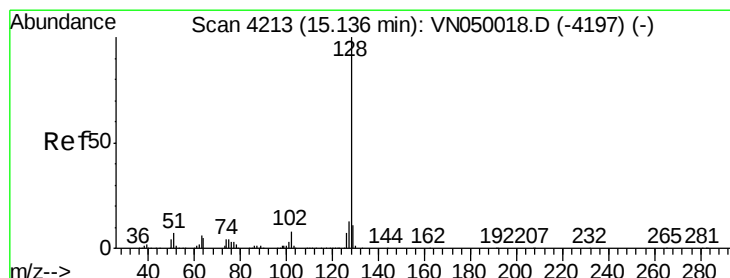
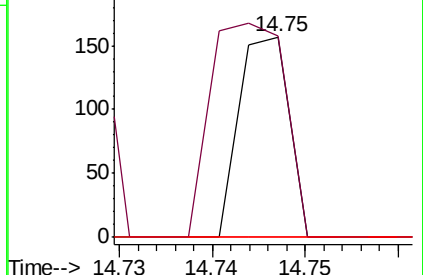
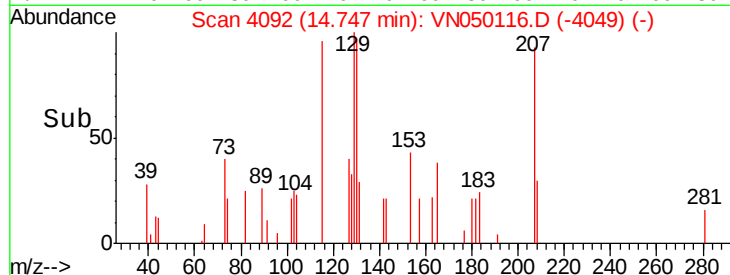
145 0.0 13.8 41.4#



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: 7.74 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050116.D

Acq: 27 Jul 2018 6:08

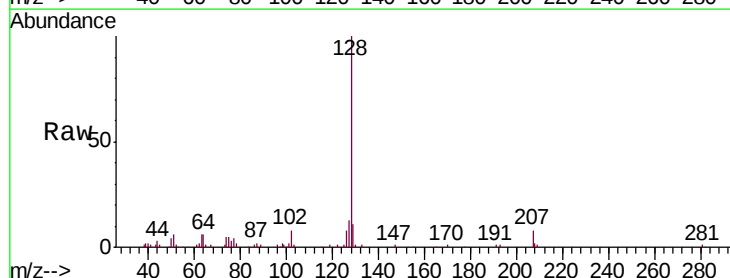
Tgt Ion:128 Resp: 72728

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 12.2 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

