

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072718\
 Data File : VN050163.D
 Acq On : 28 Jul 2018 5:53
 Operator : MD\SY
 Sample : J4199-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-33

Quant Time: Jul 30 01:54:14 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	633054	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1044607	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	854470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	311633	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	441827	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
35) Dibromofluoromethane	7.59	113	404245	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
50) Toluene-d8	10.09	98	1413049	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	
62) 4-Bromofluorobenzene	12.40	95	386046	37.39	ug/l	0.00
Spiked Amount			Recovery	=	74.78%	

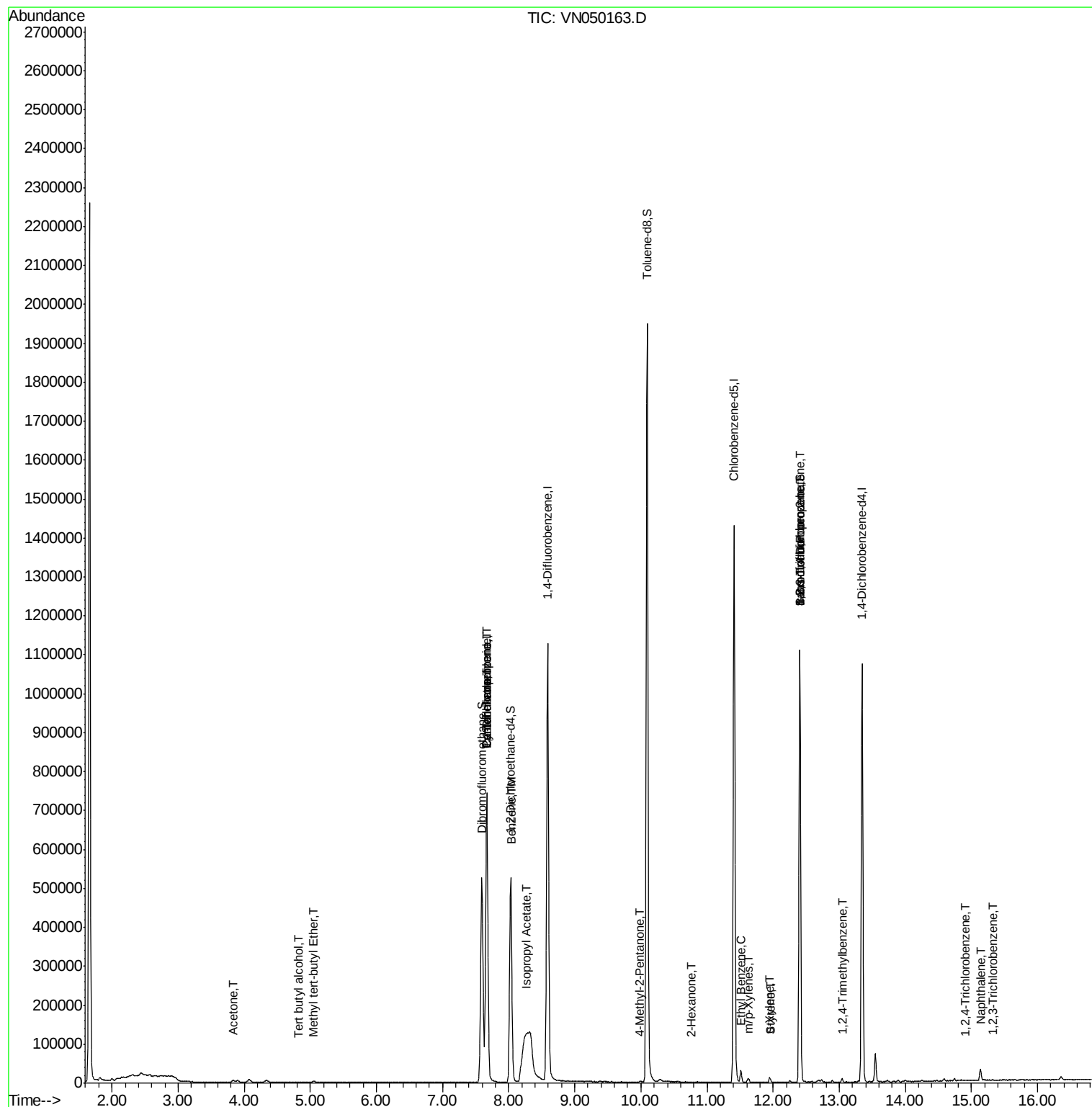
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	435	Below Cal	#	25
11) Tert butyl alcohol	4.82	59	205	0.32	ug/l	72
16) Acetone	3.82	43	12380	1.64	ug/l	87
18) Methyl Acetate	4.34	43	8928	Below Cal	#	51
19) Methyl tert-butyl Ether	5.05	73	4191	0.22	ug/l	89
20) Methylene Chloride	4.55	84	137	Below Cal	#	62
31) Cyclohexane	7.67	56	12260	0.94	ug/l	1
36) 1,1-Dichloropropene	7.67	75	44652	3.79	ug/l	48
38) Carbon Tetrachloride	7.67	117	57919	4.64	ug/l	16
40) Benzene	8.05	78	20777	0.58	ug/l	100
43) Isopropyl Acetate	8.27	43	187703	11.26	ug/l	61
51) 4-Methyl-2-Pentanone	9.99	43	1701	0.21	ug/l	78
59) 2-Hexanone	10.75	43	93	5.19	ug/l	24
67) Ethyl Benzene	11.51	91	21030	0.61	ug/l	98
68) m/p-Xylenes	11.63	106	3342	0.25	ug/l	92
69) o-Xylene	11.95	106	3540	0.28	ug/l	87
70) Styrene	11.97	104	368	0.94	ug/l	25
71) Bromoform	12.40	173	3608	0.60	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	167	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	186181	32.15	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	186181	101.97	ug/l	13
84) 1,2,4-Trimethylbenzene	13.04	105	5635	0.29	ug/l	87
93) 1,2,4-Trichlorobenzene	14.91	180	228	3.12	ug/l	82
95) Naphthalene	15.14	128	24742	6.00	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	223	2.24	ug/l	91

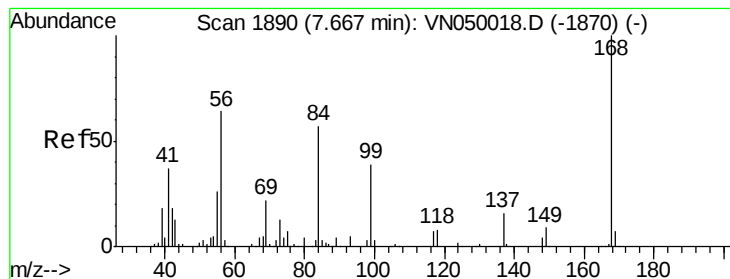
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampled :

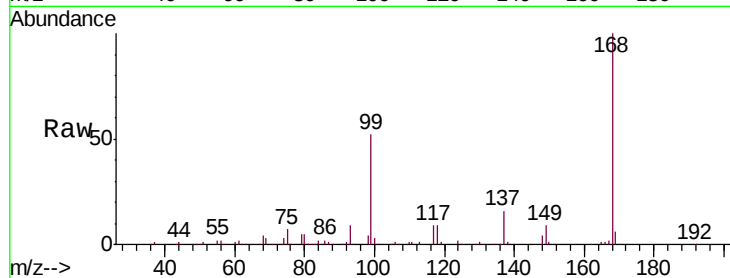
MW-33

Tot Ion:168 Resp: 633054

Ion Ratio Lower Upper

168 100

99 51.9 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

250000

200000

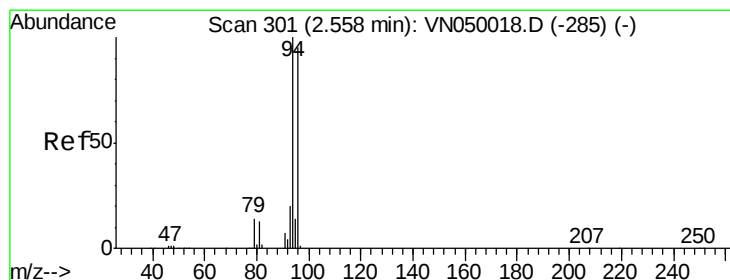
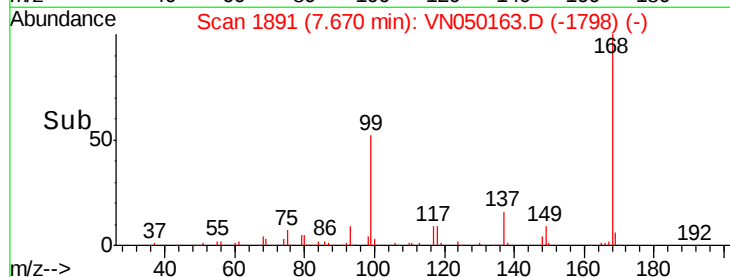
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050163.D

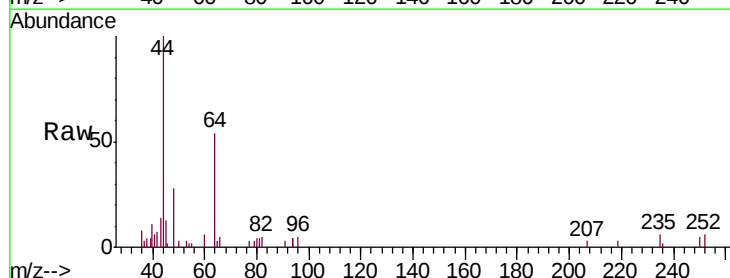
Acq: 28 Jul 2018 5:53

Tgt Ion: 94 Resp: 435

Ion Ratio Lower Upper

94 100

96 21.2 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

600

500

400

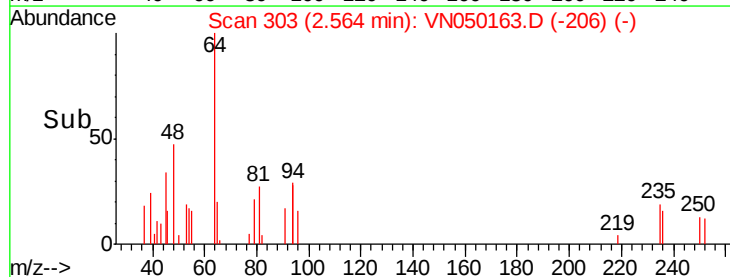
300

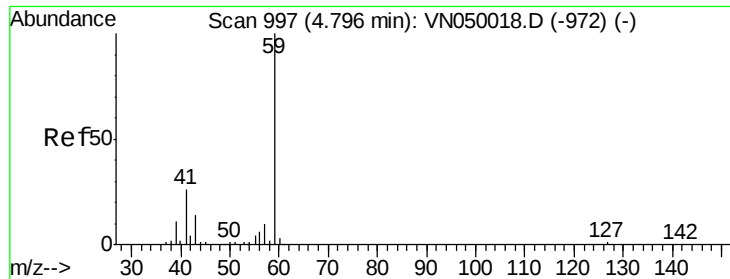
200

100

0

Time-->

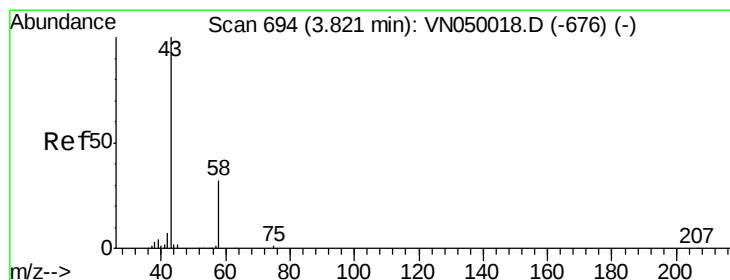
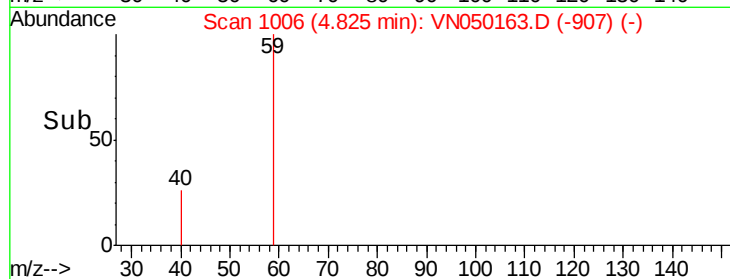
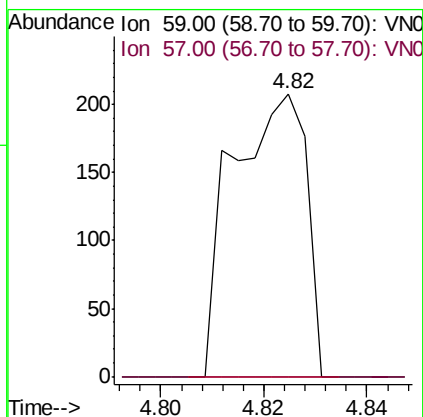
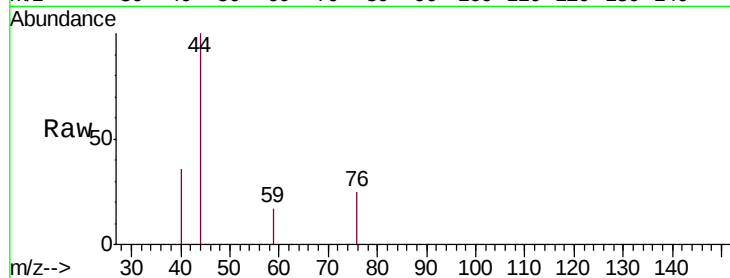




#11
Tert butyl alcohol
Concen: 0.32 ug/l
RT: 4.82 min Scan# 1006
Delta R.T. 0.02 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

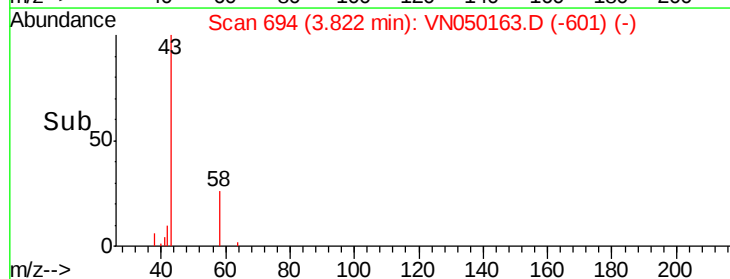
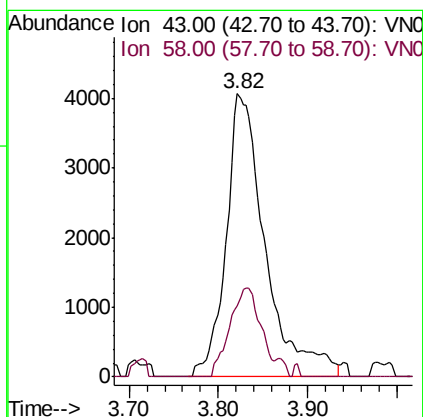
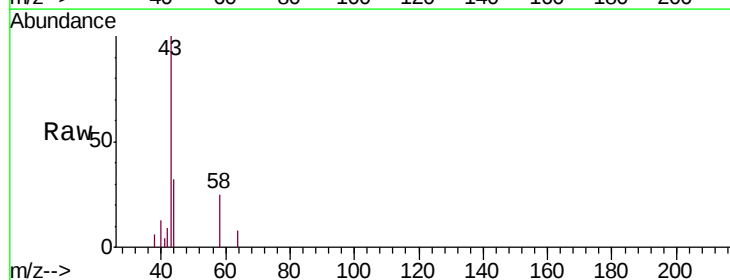
Instrument :
MSVOA_N
ClientSampled :
MW-33

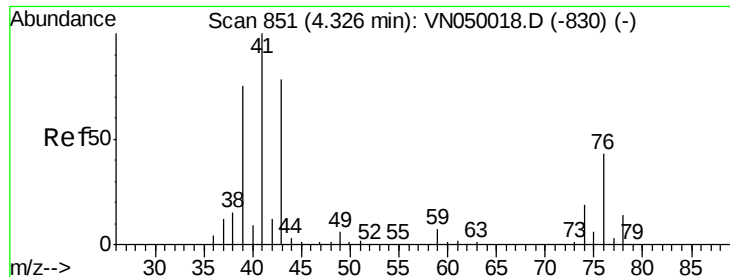
Tot Ion: 59 Resp: 205
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 1.64 ug/l
RT: 3.82 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

Tgt Ion: 43 Resp: 12380
Ion Ratio Lower Upper
43 100
58 25.2 25.8 38.8#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 856

Delta R.T. 0.01 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampled :

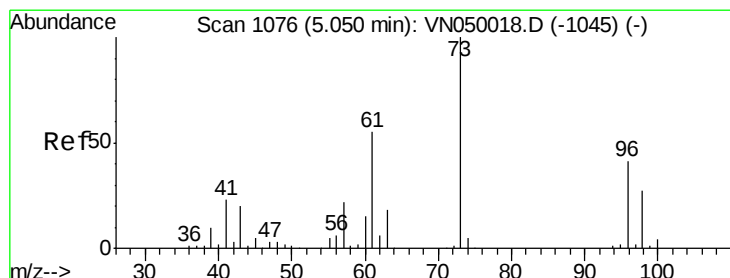
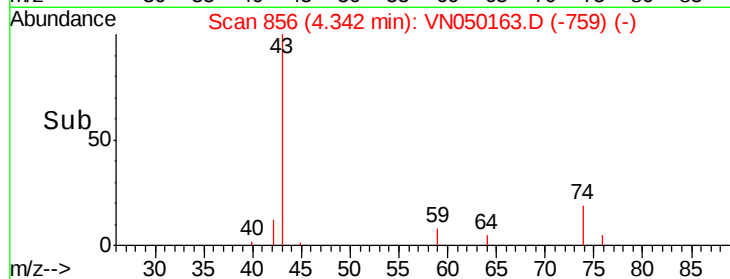
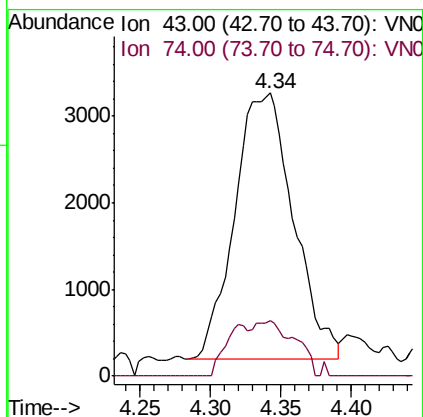
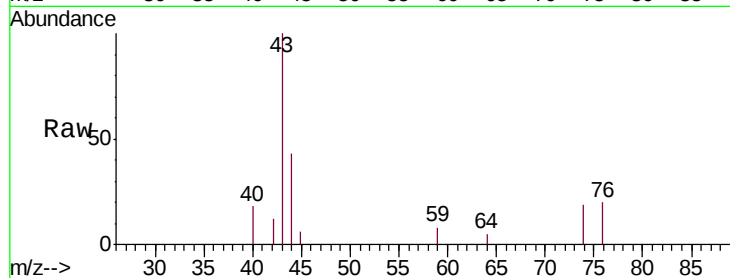
MW-33

Tot Ion: 43 Resp: 8928

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#



#19

Methyl tert-butyl Ether

Concen: 0.22 ug/l

RT: 5.05 min Scan# 1077

Delta R.T. 0.00 min

Lab File: VN050163.D

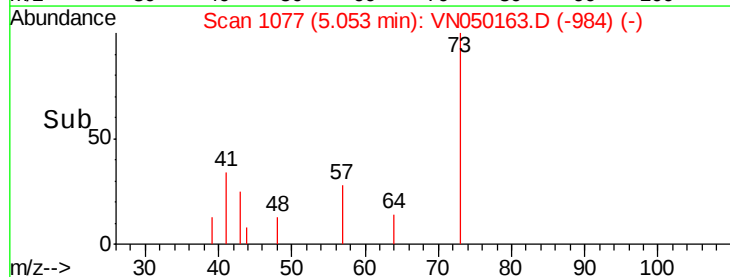
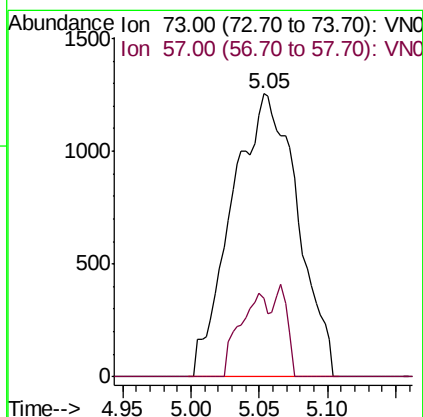
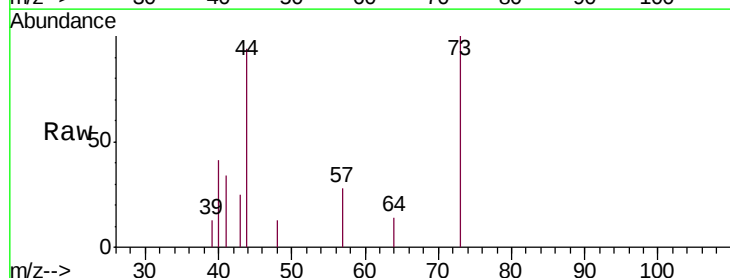
Acq: 28 Jul 2018 5:53

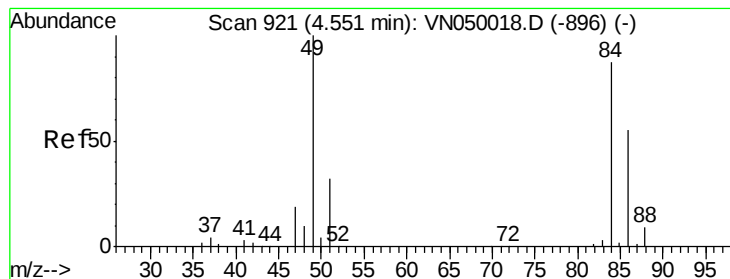
Tgt Ion: 73 Resp: 4191

Ion Ratio Lower Upper

73 100

57 27.7 18.0 27.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampleId :

MW-33

Tot Ion: 84 Resp: 137

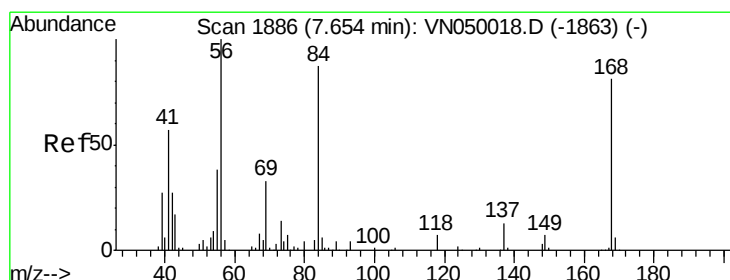
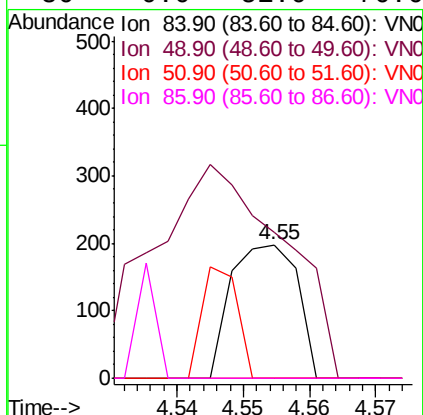
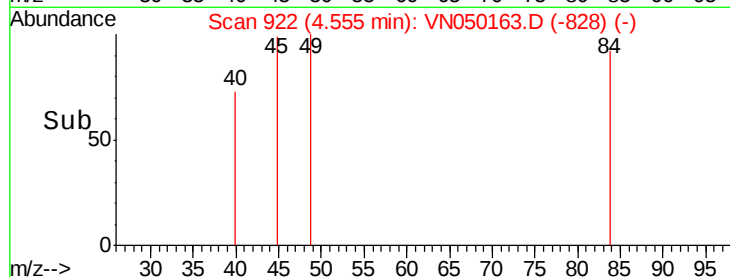
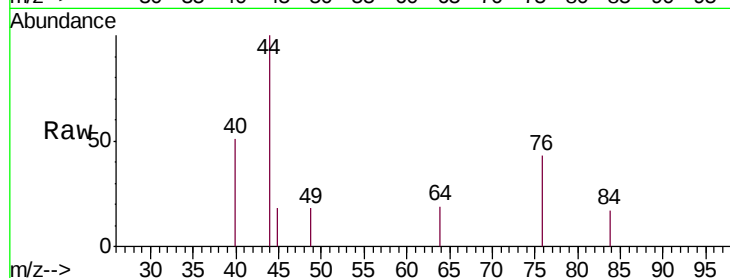
Ion Ratio Lower Upper

84 100

49 109.1 94.8 142.2

51 0.0 28.3 42.5#

86 0.0 51.0 76.6#



#31

Cyclohexane

Concen: 0.94 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

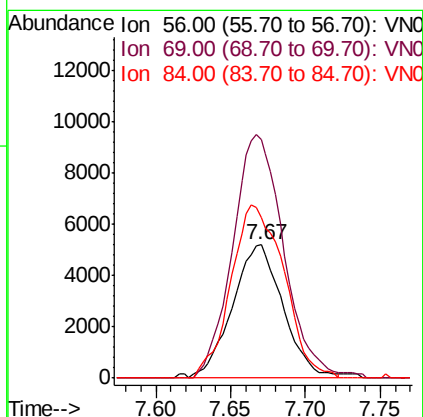
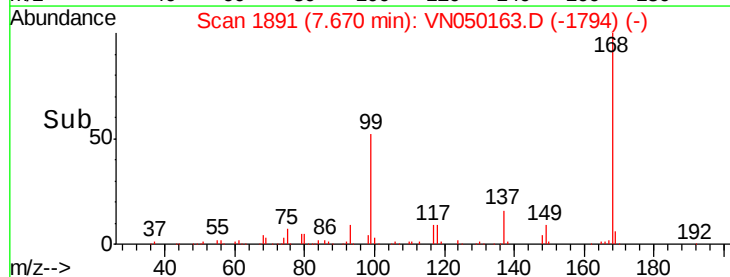
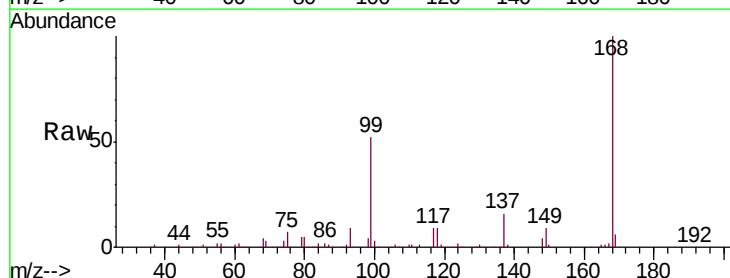
Tgt Ion: 56 Resp: 12260

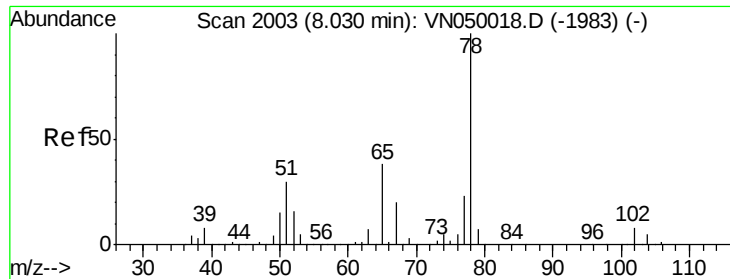
Ion Ratio Lower Upper

56 100

69 178.4 26.2 39.4#

84 120.2 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 50.02 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampleId :

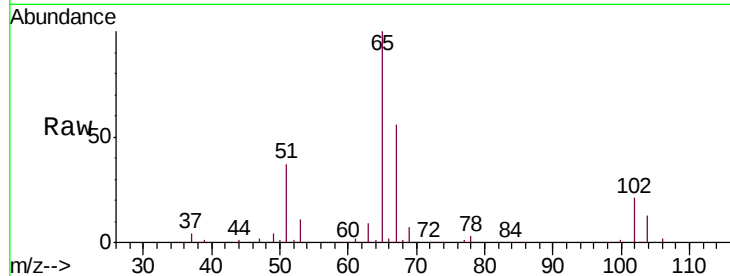
MW-33

Tot Ion: 65 Resp: 441827

Ion Ratio Lower Upper

65 100

67 55.0 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050018.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050018.D (-1983) (-)

8.03

200000

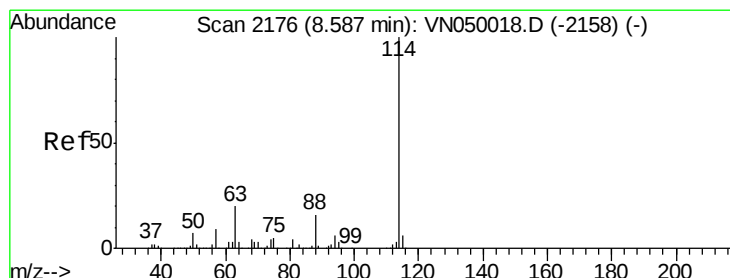
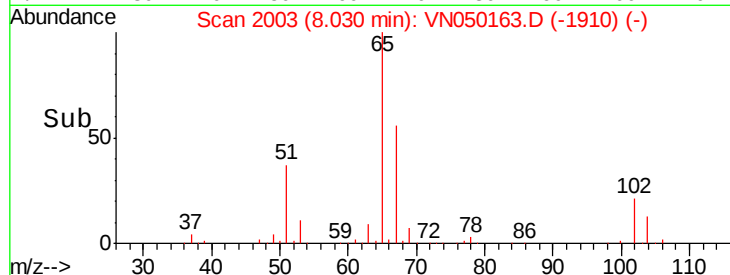
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

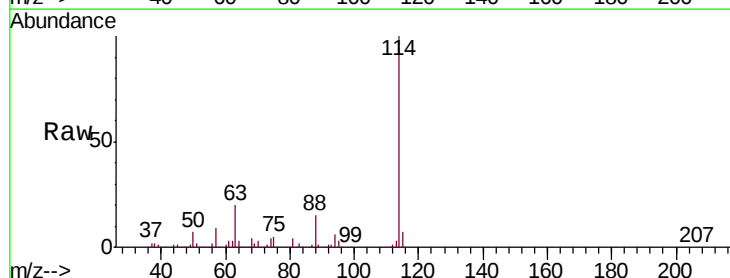
Tgt Ion:114 Resp: 1044607

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

88 15.4 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN050018.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050018.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050018.D (-2158) (-)

8.59

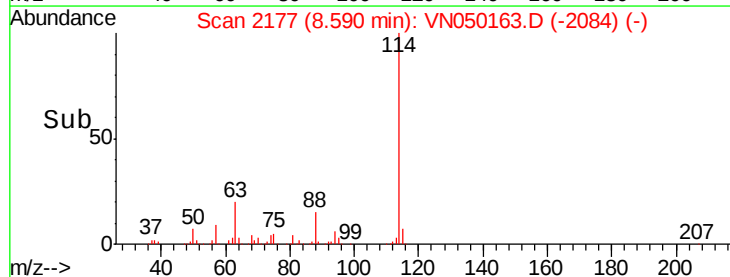
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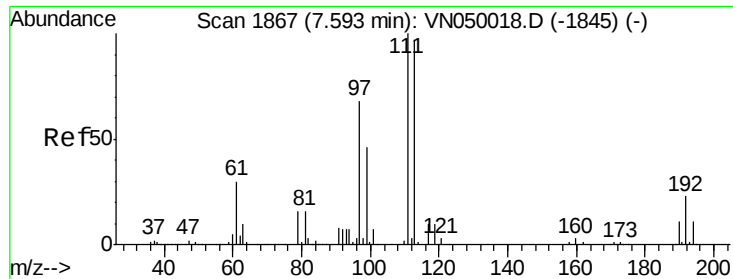
400000

200000

0

Time--> 8.50 8.60 8.70

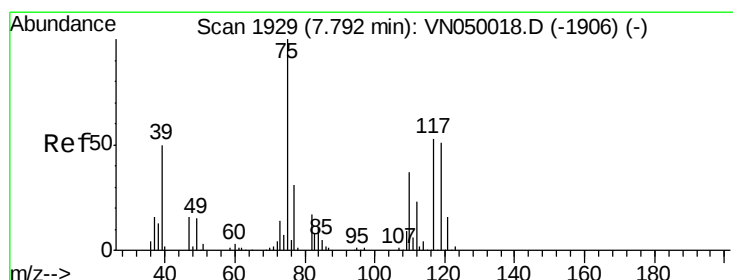
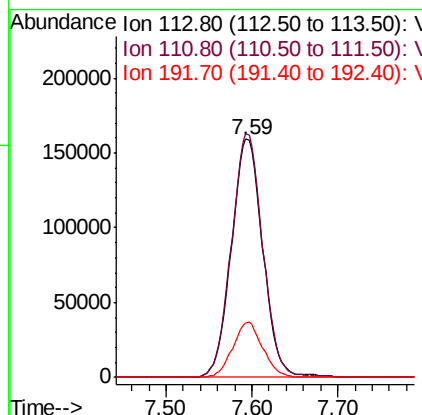
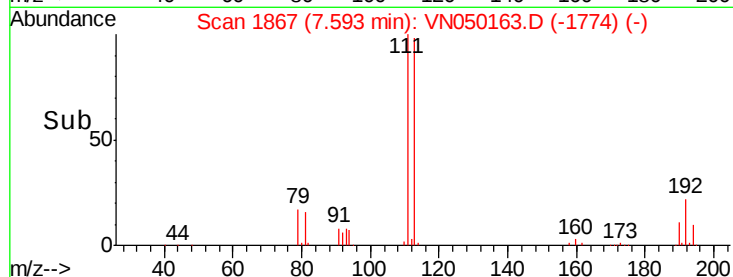
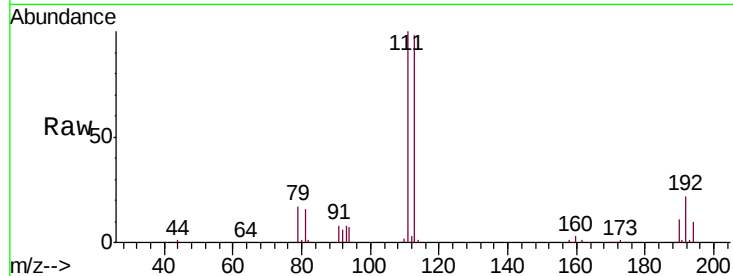




#35
 Dibromofluoromethane
 Concen: 47.40 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050163.D
 Acq: 28 Jul 2018 5:53

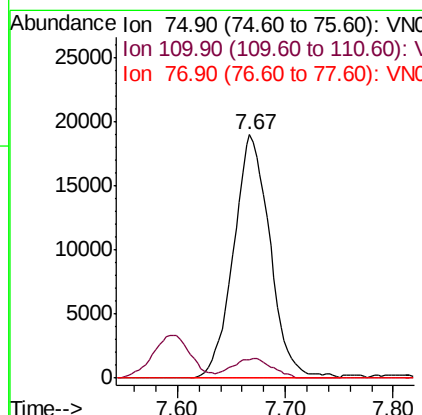
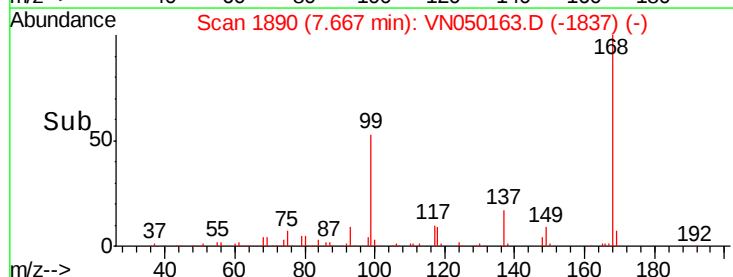
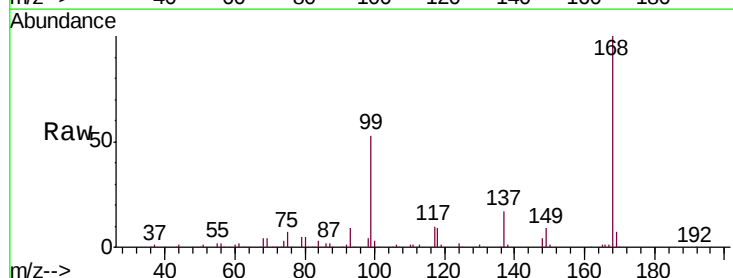
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 MW-33

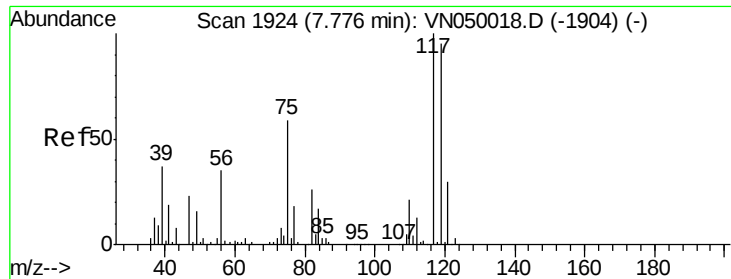
Tot Ion:113 Resp: 404245
 Ion Ratio Lower Upper
 113 100
 111 102.1 80.7 121.1
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.79 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050163.D
 Acq: 28 Jul 2018 5:53

Tgt Ion: 75 Resp: 44652
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.64 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampleId :

MW-33

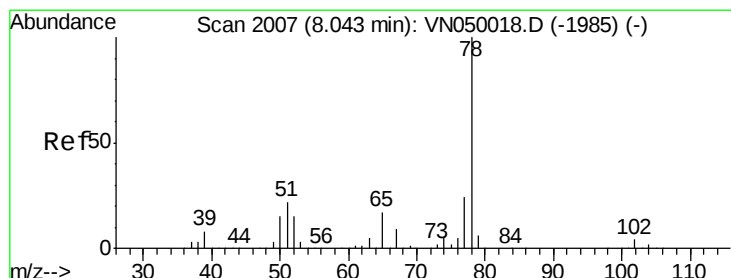
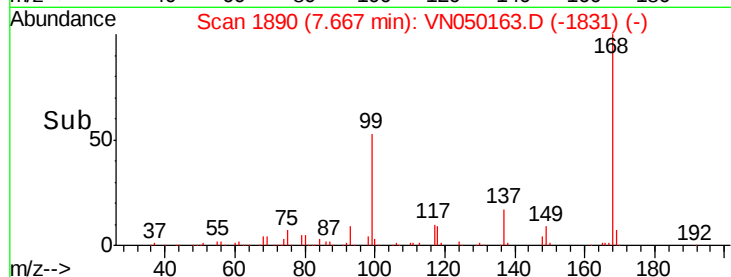
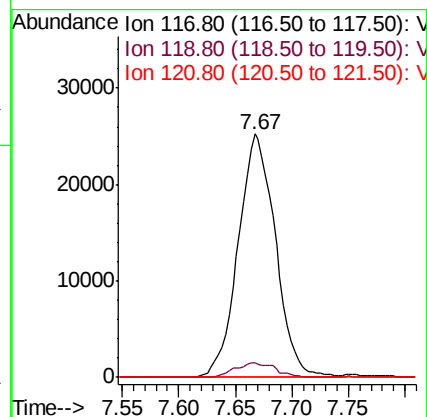
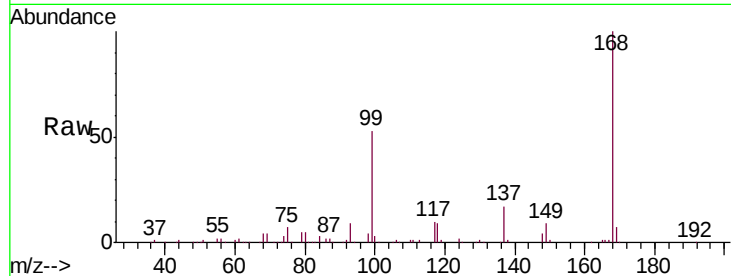
Tot Ion:117 Resp: 57919

Ion Ratio Lower Upper

117 100

119 6.2 77.4 116.0#

121 0.0 23.9 35.9#



#40

Benzene

Concen: 0.58 ug/l

RT: 8.05 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VN050163.D

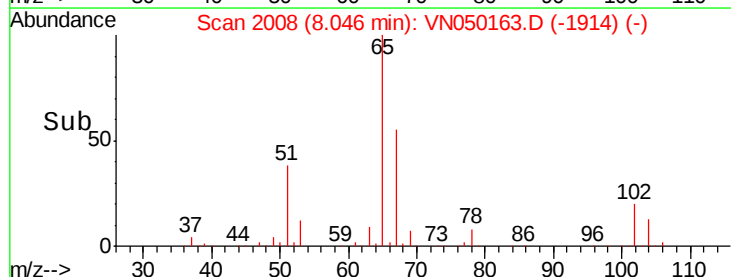
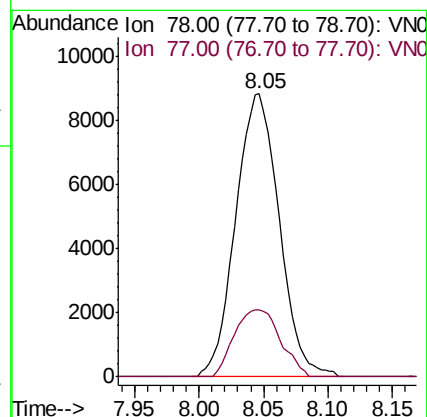
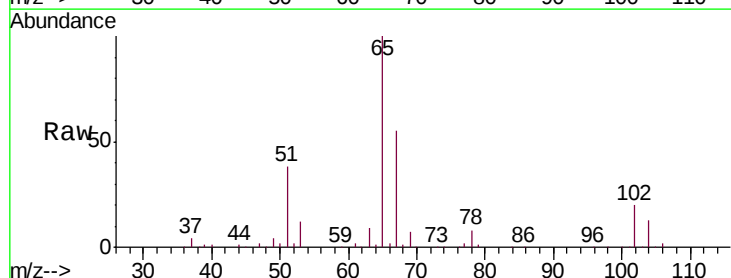
Acq: 28 Jul 2018 5:53

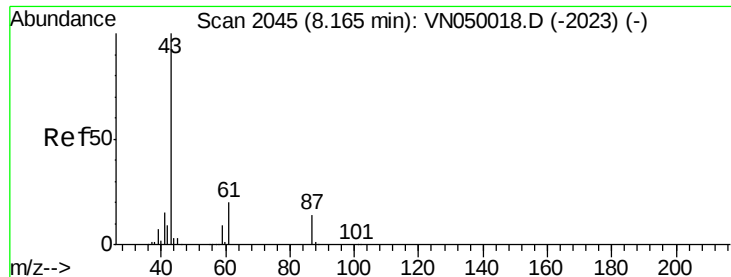
Tgt Ion: 78 Resp: 20777

Ion Ratio Lower Upper

78 100

77 23.6 18.7 28.1



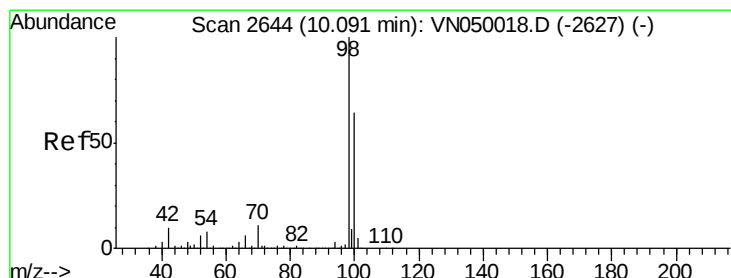
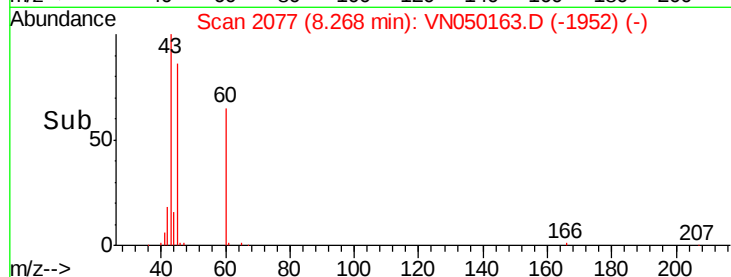
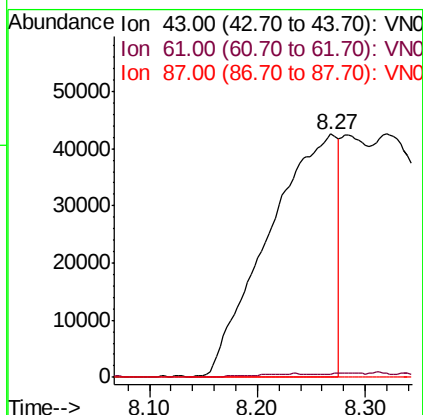
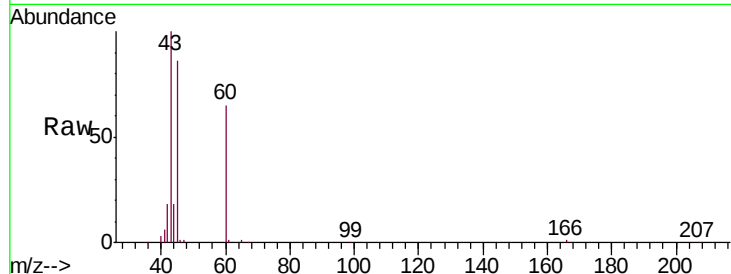


#43

Isopropyl Acetate
 Concen: 11.26 ug/l
 RT: 8.27 min Scan# 2077
 Delta R.T. 0.10 min
 Lab File: VN050163.D
 Acq: 28 Jul 2018 5:53

Instrument :
 MSVOA_N
 ClientSampled :
 MW-33

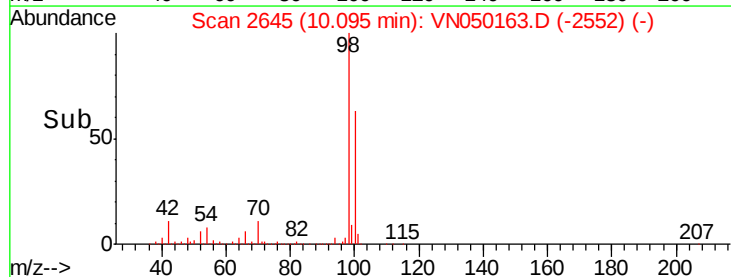
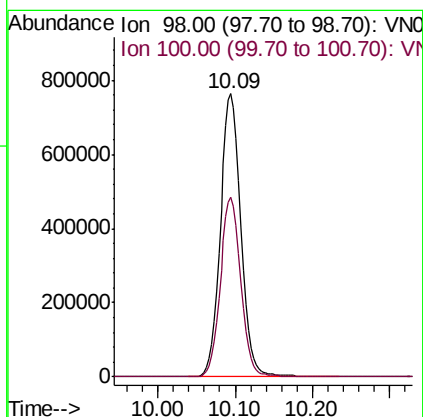
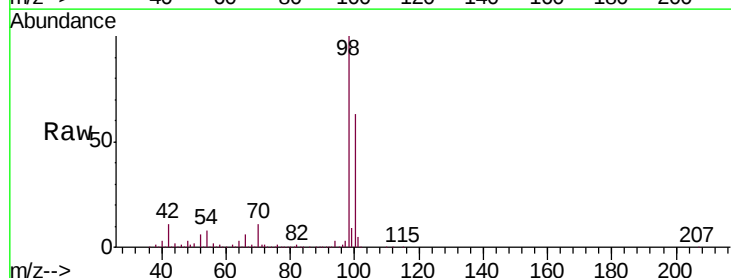
Tot Ion: 43 Resp: 187703
 Ion Ratio Lower Upper
 43 100
 61 0.0 15.8 23.6#
 87 0.0 10.3 15.5#

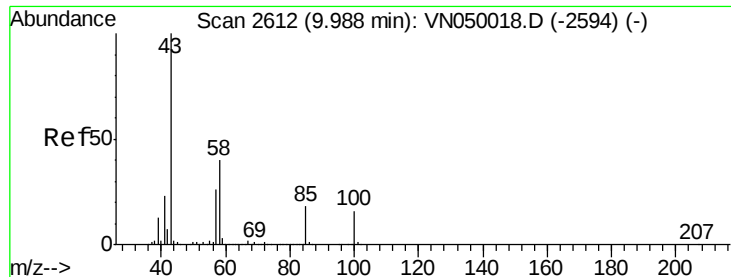


#50

Toluene-d8
 Concen: 45.06 ug/l
 RT: 10.09 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VN050163.D
 Acq: 28 Jul 2018 5:53

Tgt Ion: 98 Resp: 1413049
 Ion Ratio Lower Upper
 98 100
 100 63.3 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.21 ug/l

RT: 9.99 min Scan# 2614

Delta R.T. 0.01 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampled :

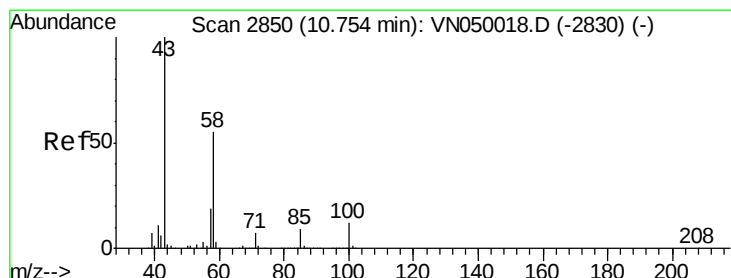
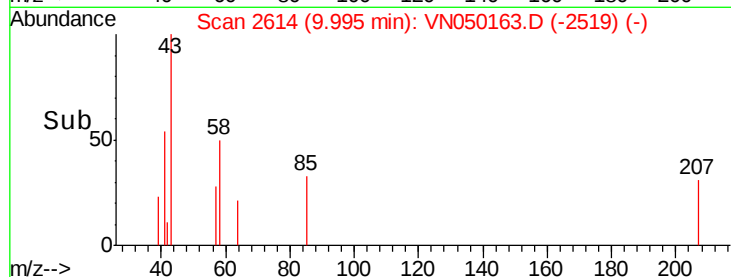
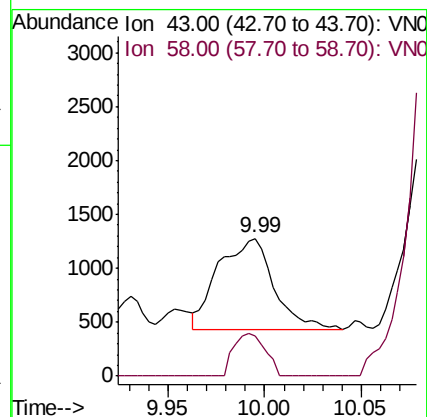
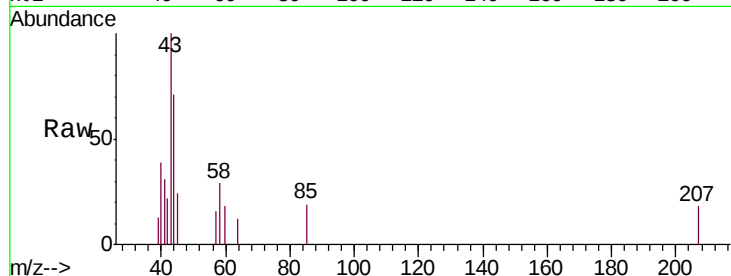
MW-33

Tot Ion: 43 Resp: 1701

Ion Ratio Lower Upper

43 100

58 26.2 31.9 47.9#



#59

2-Hexanone

Concen: 5.19 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VN050163.D

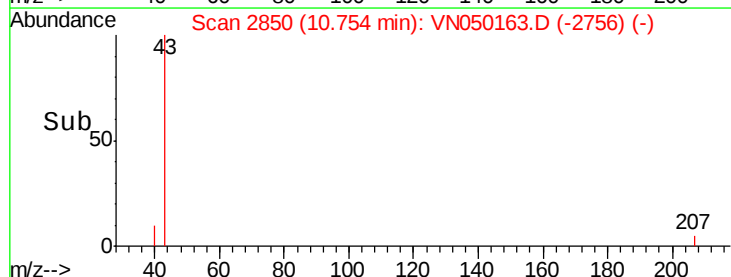
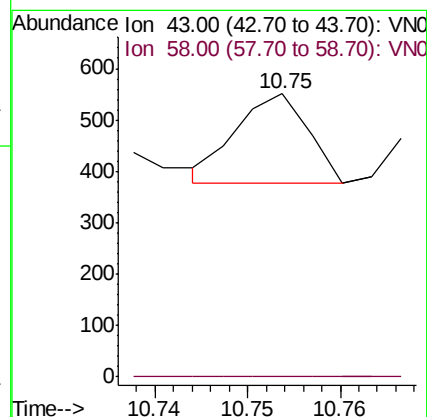
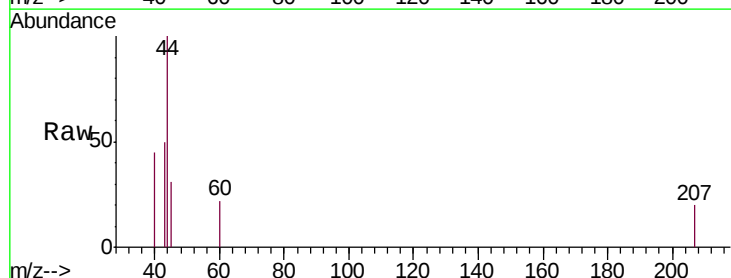
Acq: 28 Jul 2018 5:53

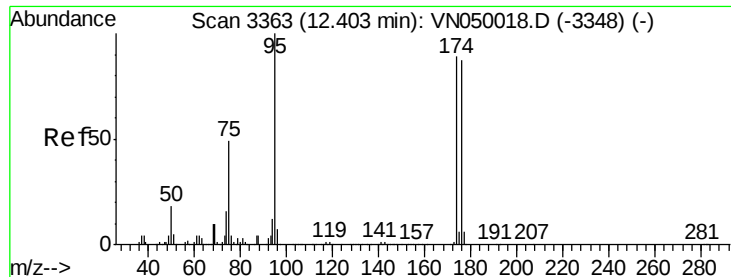
Tgt Ion: 43 Resp: 93

Ion Ratio Lower Upper

43 100

58 0.0 27.6 82.7#





#62

4-Bromofluorobenzene

Concen: 37.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampleId :

MW-33

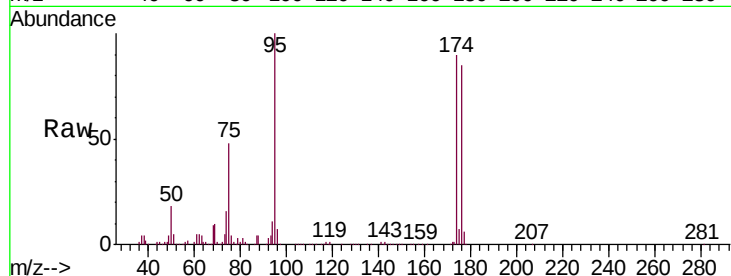
Tot Ion: 95 Resp: 386046

Ion Ratio Lower Upper

95 100

174 90.9 0.0 178.2

176 86.3 0.0 173.4

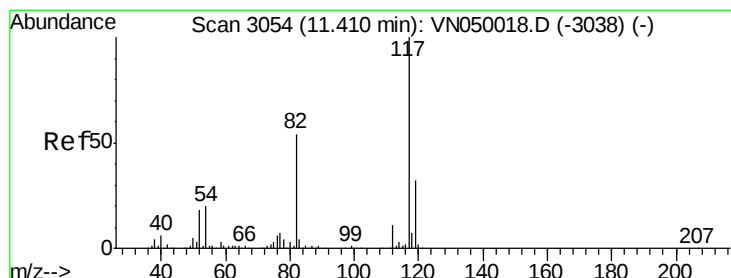
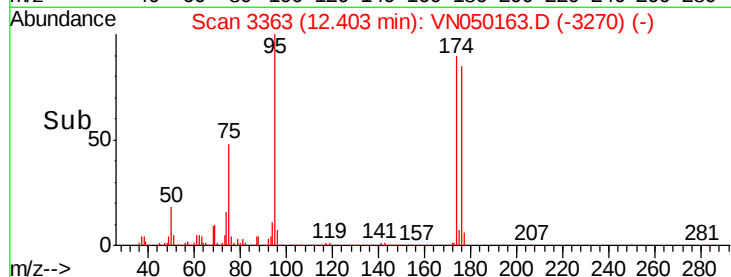


Abundance Ion 94.90 (94.60 to 95.60): VN050018.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050018.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050018.D (-3348) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

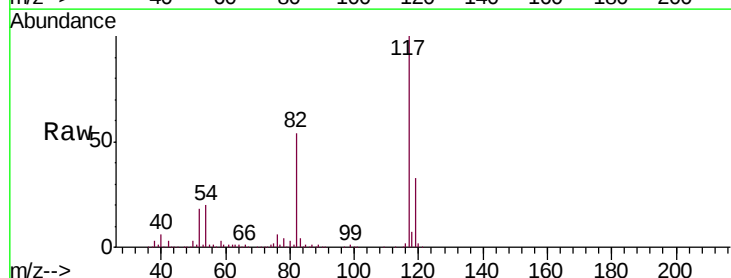
Tgt Ion: 117 Resp: 854470

Ion Ratio Lower Upper

117 100

82 54.2 43.7 65.5

119 32.6 26.1 39.1

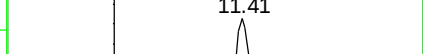
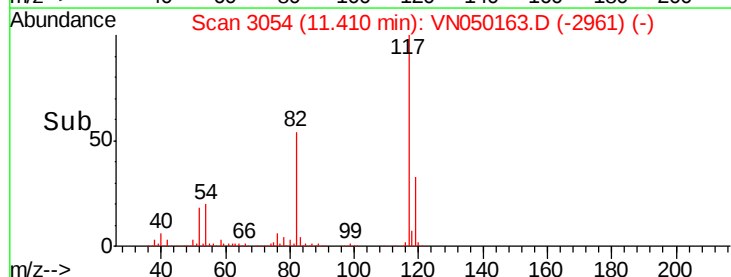


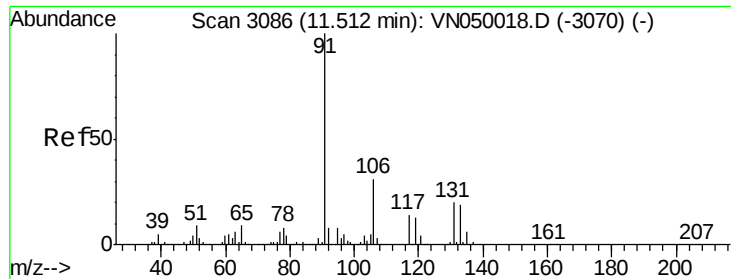
Abundance Ion 116.90 (116.60 to 117.60): VN050018.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050018.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050018.D (-3038) (-)

Time-->





#67

Ethyl Benzene

Concen: 0.61 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampled :

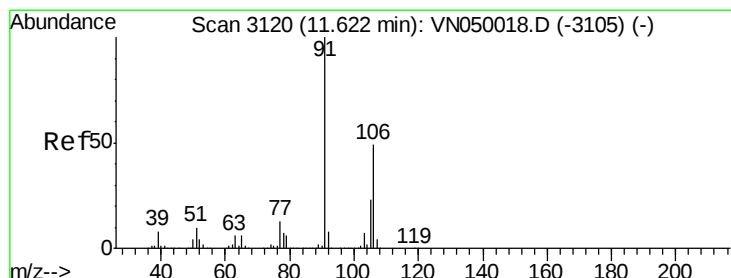
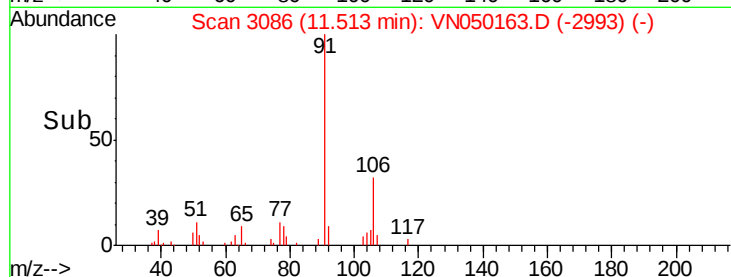
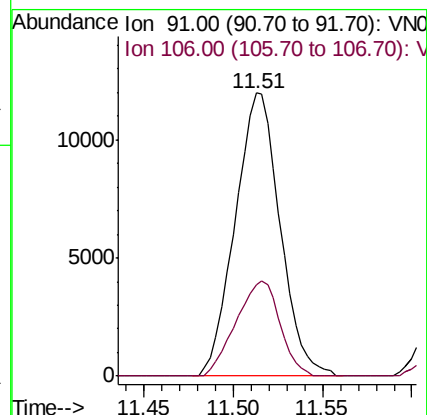
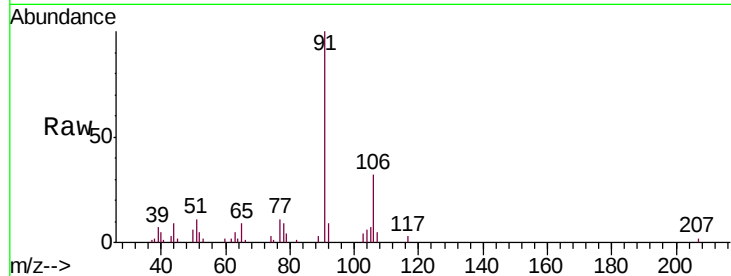
MW-33

Tot Ion: 91 Resp: 21030

Ion Ratio Lower Upper

91 100

106 32.3 25.0 37.4



#68

m/p-Xylenes

Concen: 0.25 ug/l

RT: 11.63 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN050163.D

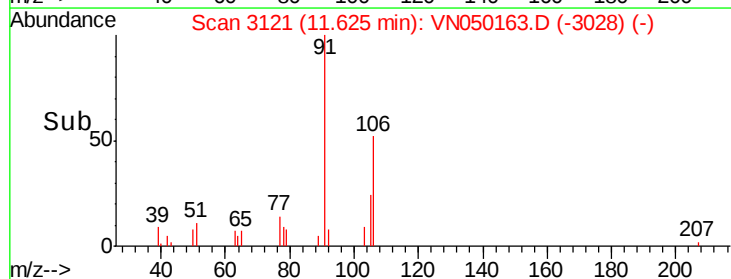
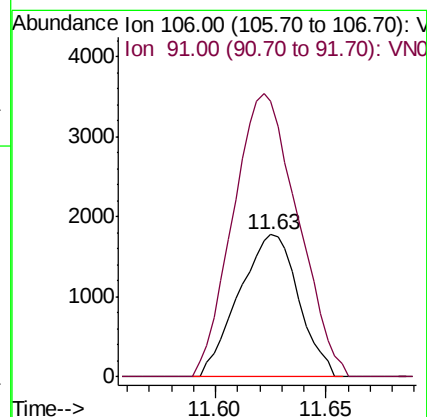
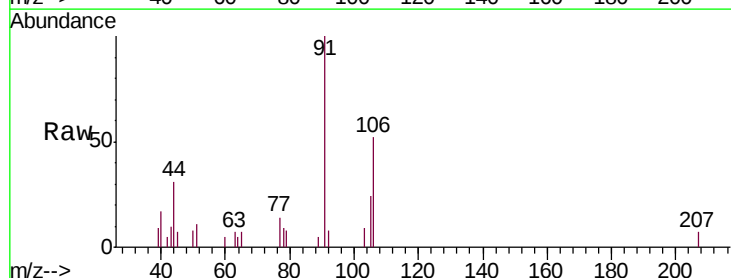
Acq: 28 Jul 2018 5:53

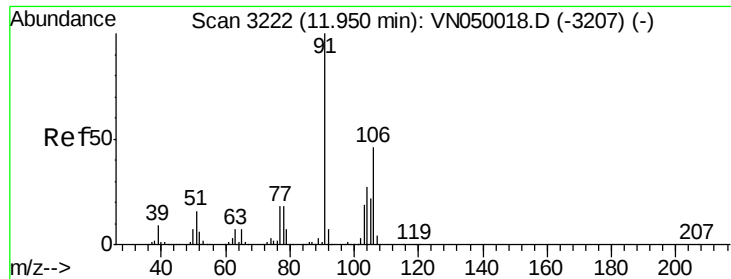
Tgt Ion: 106 Resp: 3342

Ion Ratio Lower Upper

106 100

91 215.2 162.2 243.2

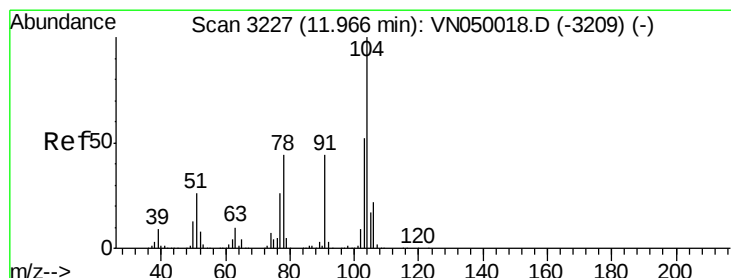
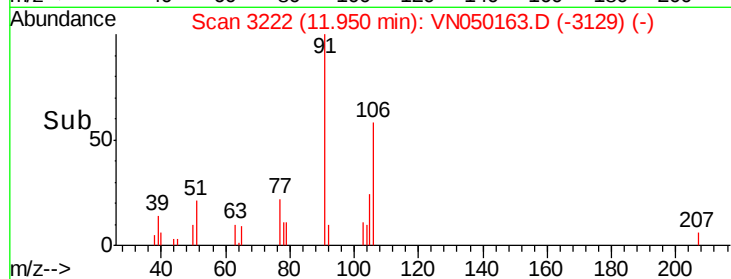
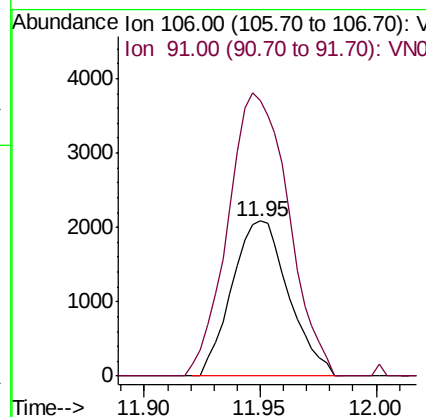
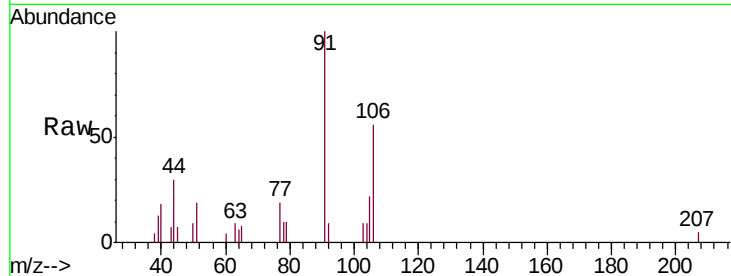




#69
o-Xylene
Concen: 0.28 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

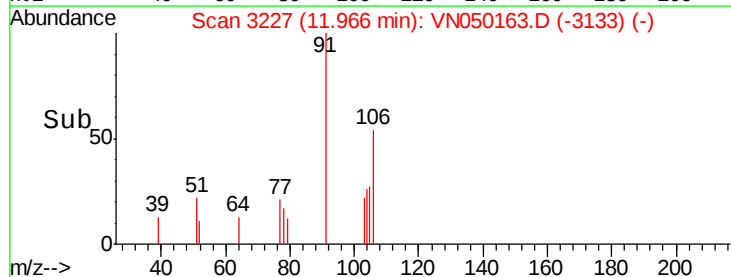
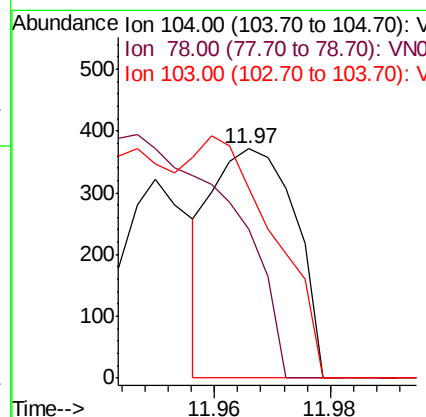
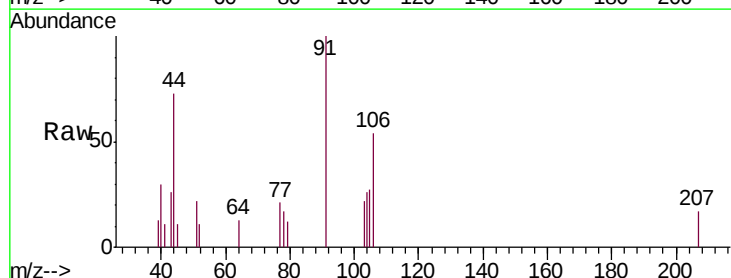
Instrument :
MSVOA_N
ClientSampled :
MW-33

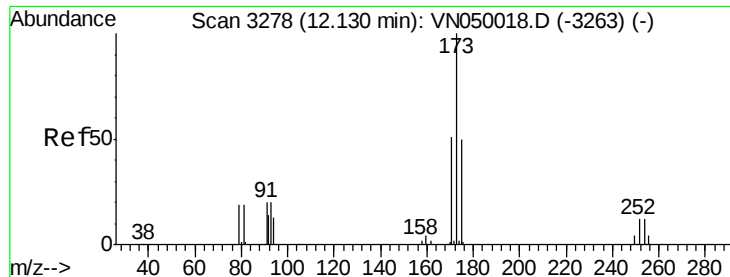
Tot Ion:106 Resp: 3540
Ion Ratio Lower Upper
106 100
91 195.1 107.7 323.1



#70
Styrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

Tgt Ion:104 Resp: 368
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 0.0 45.0 67.6#

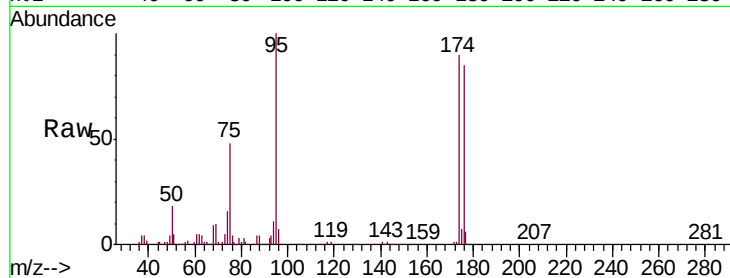




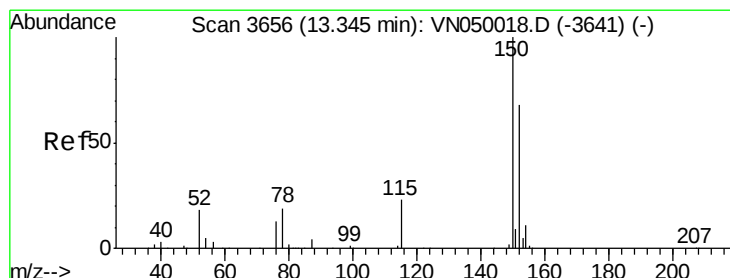
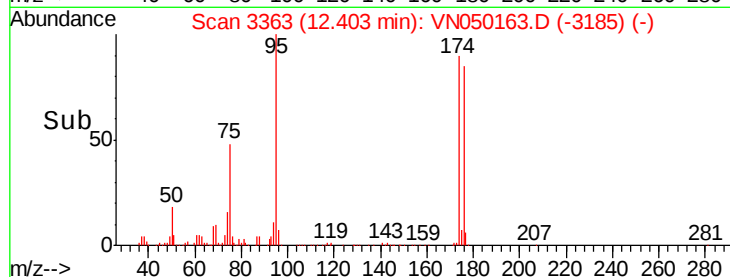
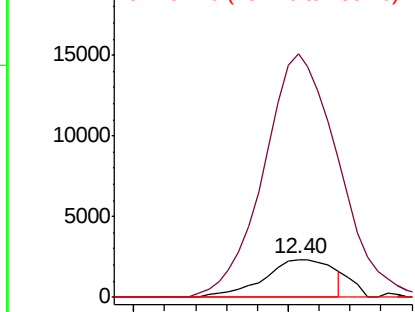
#71
Bromoform
Concen: 0.60 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.27 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

Instrument :
MSVOA_N
ClientSampleId :
MW-33

Tot Ion:173 Resp: 3608
Ion Ratio Lower Upper
173 100
175 611.7 24.1 72.2#
254 0.0 0.2 0.2#

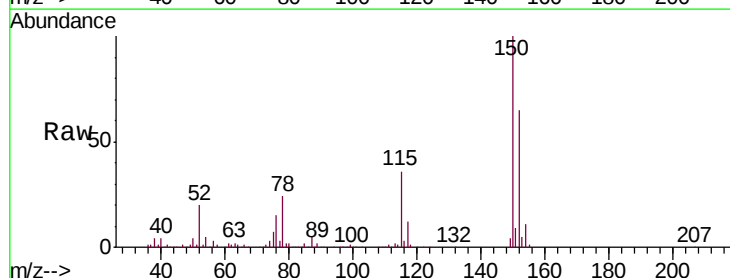


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

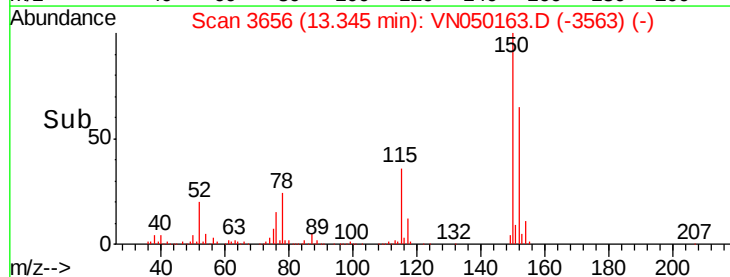
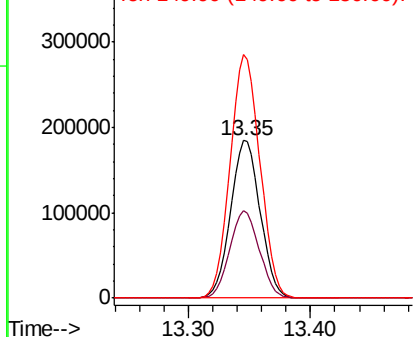


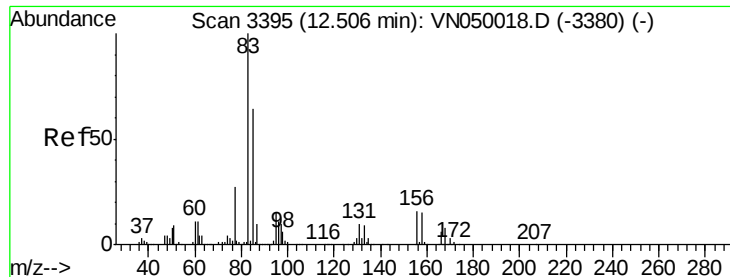
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

Tgt Ion:152 Resp: 311633
Ion Ratio Lower Upper
152 100
115 55.7 27.8 83.3
150 156.0 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: 12.40 min Scan# 3362

Delta R.T. -0.11 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampled :

MW-33

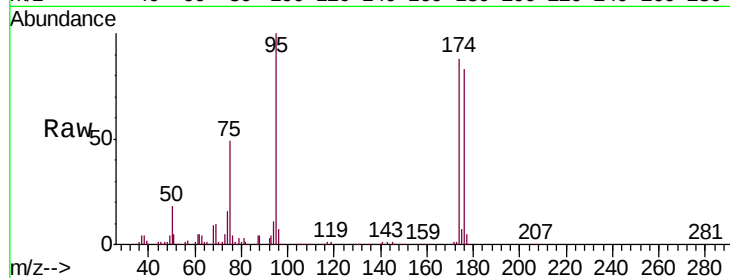
Tot Ion: 83 Resp: 167

Ion Ratio Lower Upper

83 100

131 271.3 5.1 15.3#

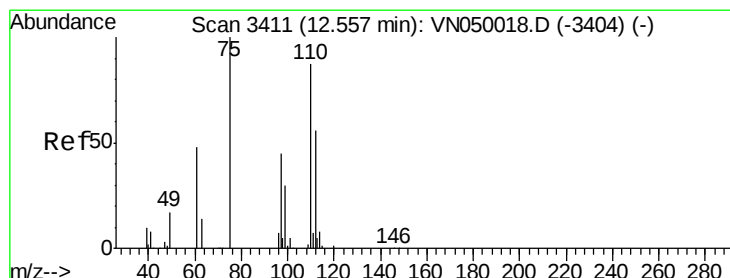
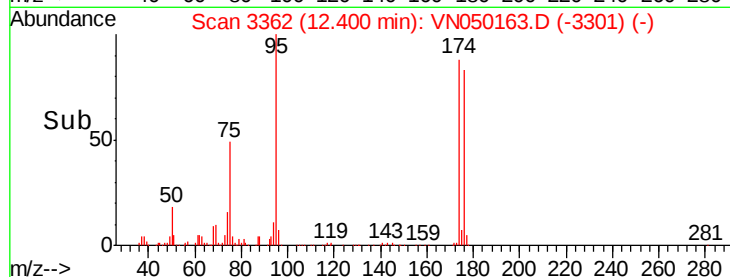
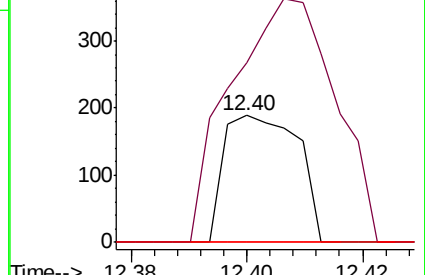
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 32.15 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050163.D

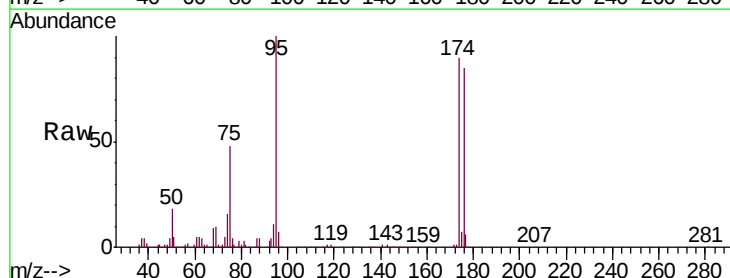
Acq: 28 Jul 2018 5:53

Tgt Ion: 75 Resp: 186181

Ion Ratio Lower Upper

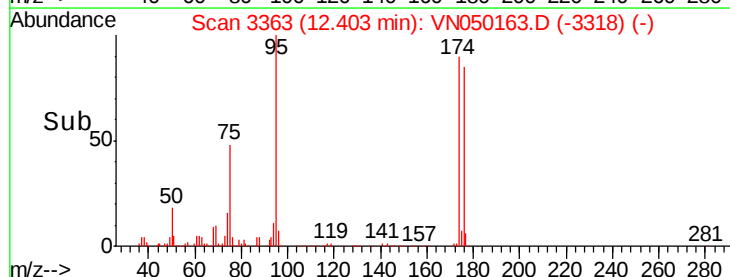
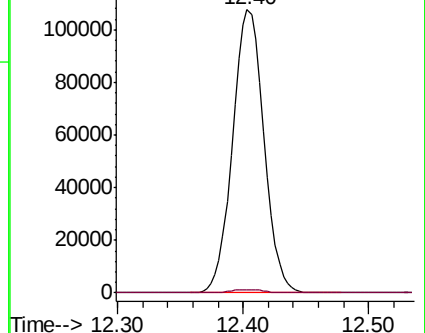
75 100

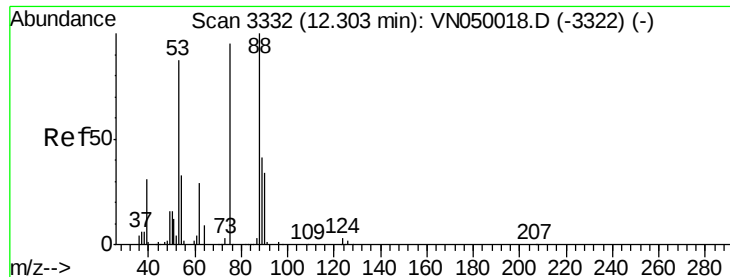
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

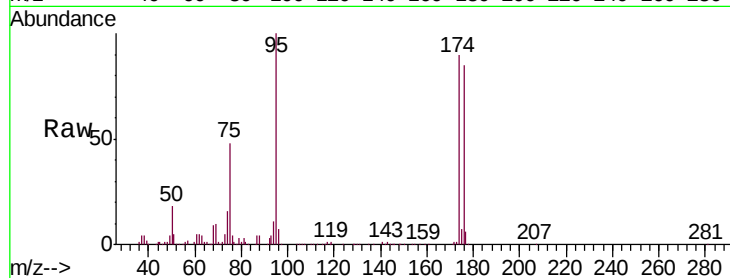




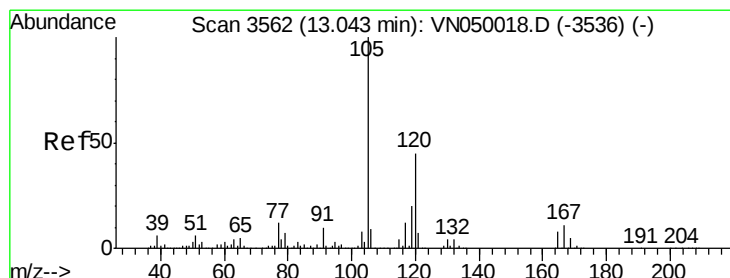
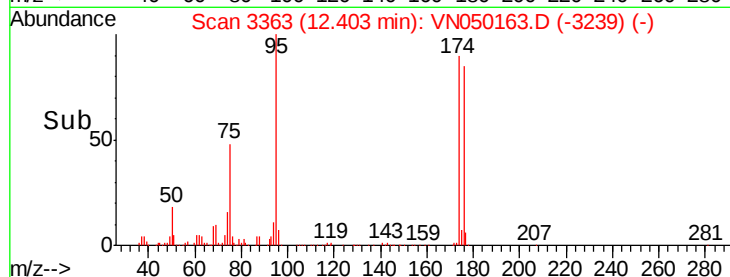
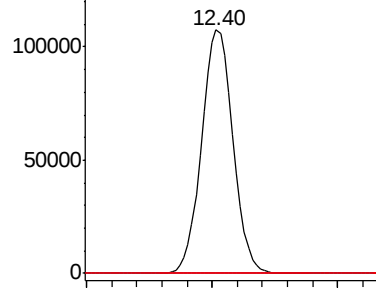
#81
trans-1,4-Dichloro-2-butene
Concen: 101.97 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

Instrument :
MSVOA_N
ClientSampleId :
MW-33

Tot Ion: 75 Resp: 186181
Ion Ratio Lower Upper
75 100
53 0.2 73.5 110.3#
89 0.0 36.0 54.0#

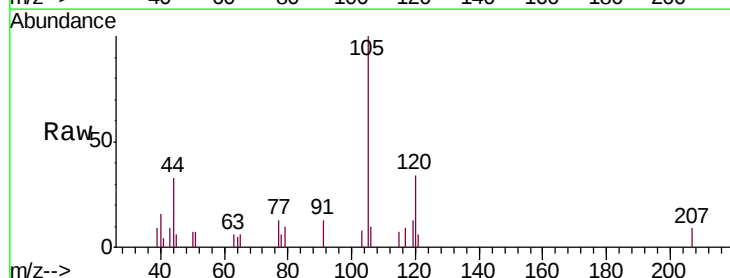


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

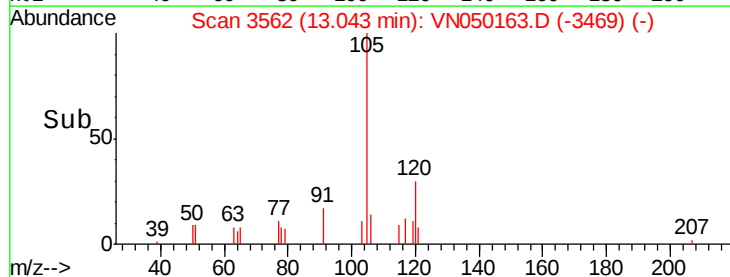
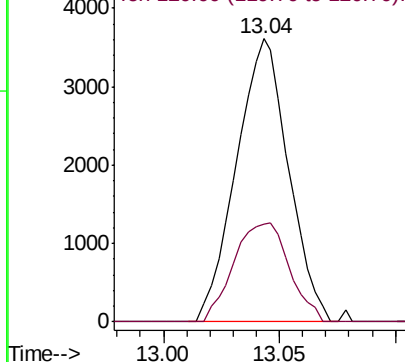


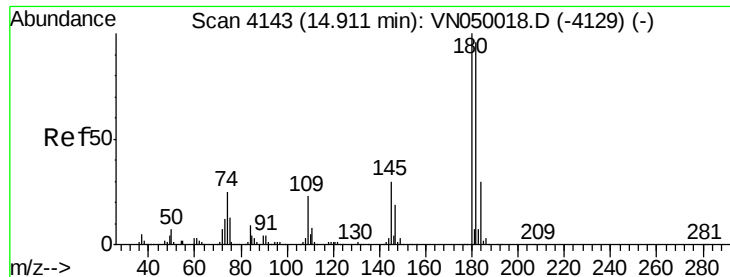
#84
1,2,4-Trimethylbenzene
Concen: 0.29 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN050163.D
Acq: 28 Jul 2018 5:53

Tgt Ion: 105 Resp: 5635
Ion Ratio Lower Upper
105 100
120 37.2 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#93

1,2,4-Trichlorobenzene

Concen: 3.12 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampleId :

MW-33

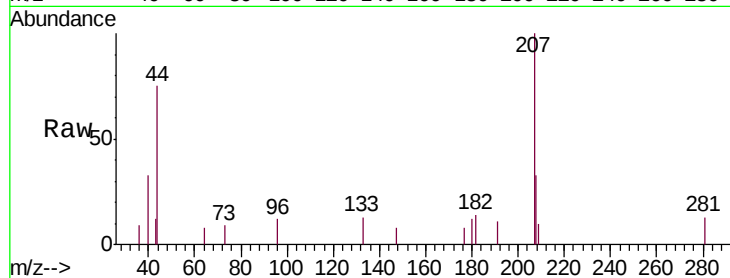
Tot Ion:180 Resp: 228

Ion Ratio Lower Upper

180 100

182 113.2 46.7 140.1

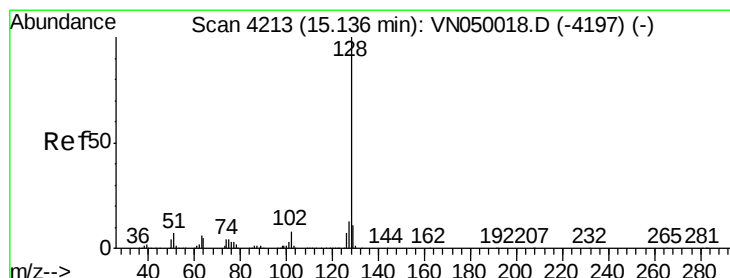
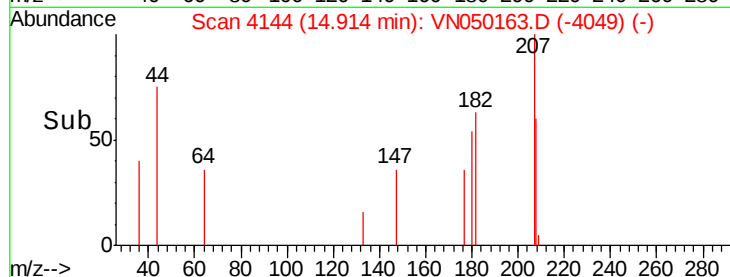
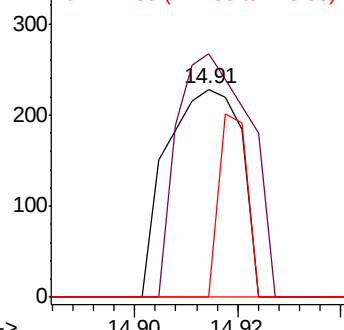
145 33.3 13.8 41.4



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: 6.00 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

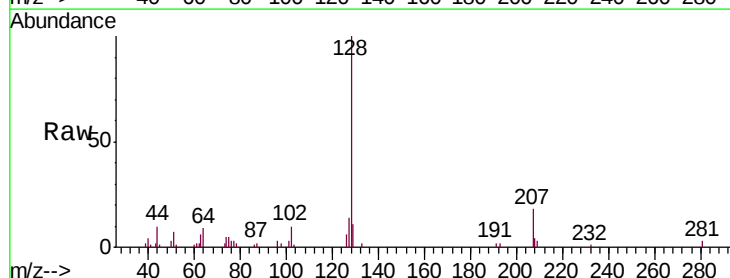
Tgt Ion:128 Resp: 24742

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

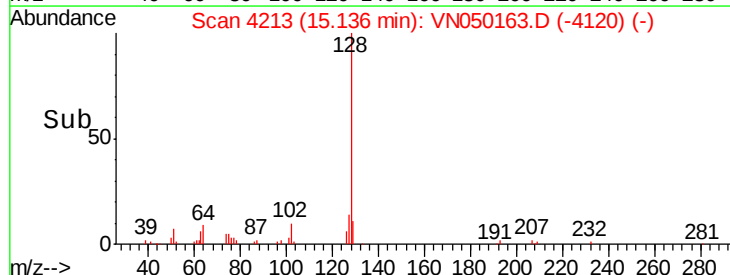
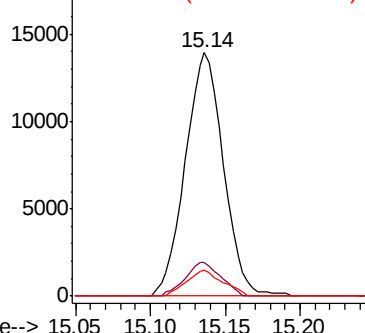
129 10.3 8.8 13.2

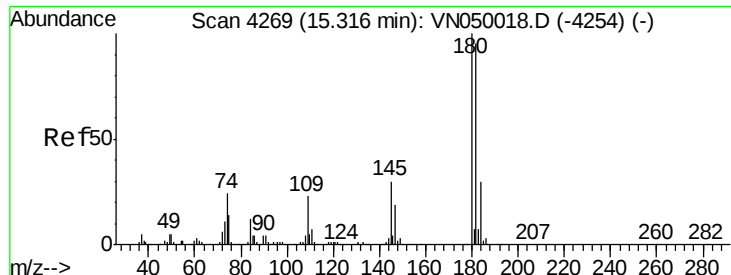


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 2.24 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN050163.D

Acq: 28 Jul 2018 5:53

Instrument :

MSVOA_N

ClientSampleId :

MW-33

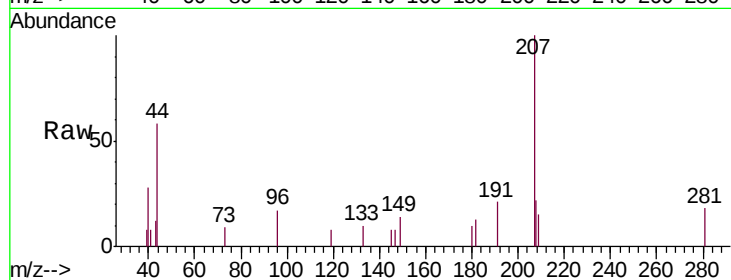
Tot Ion:180 Resp: 223

Ion Ratio Lower Upper

180 100

182 98.7 48.1 144.4

145 45.7 15.3 45.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

