

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072718\
 Data File : VN050164.D
 Acq On : 28 Jul 2018 6:18
 Operator : MD\SY
 Sample : J4199-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-30

Quant Time: Jul 30 01:54:31 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	672295	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1120339	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	921732	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	332415	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	468516	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	7.59	113	425109	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
50) Toluene-d8	10.09	98	1509398	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	
62) 4-Bromofluorobenzene	12.40	95	413568	37.35	ug/l	0.00
Spiked Amount			Recovery	=	74.70%	

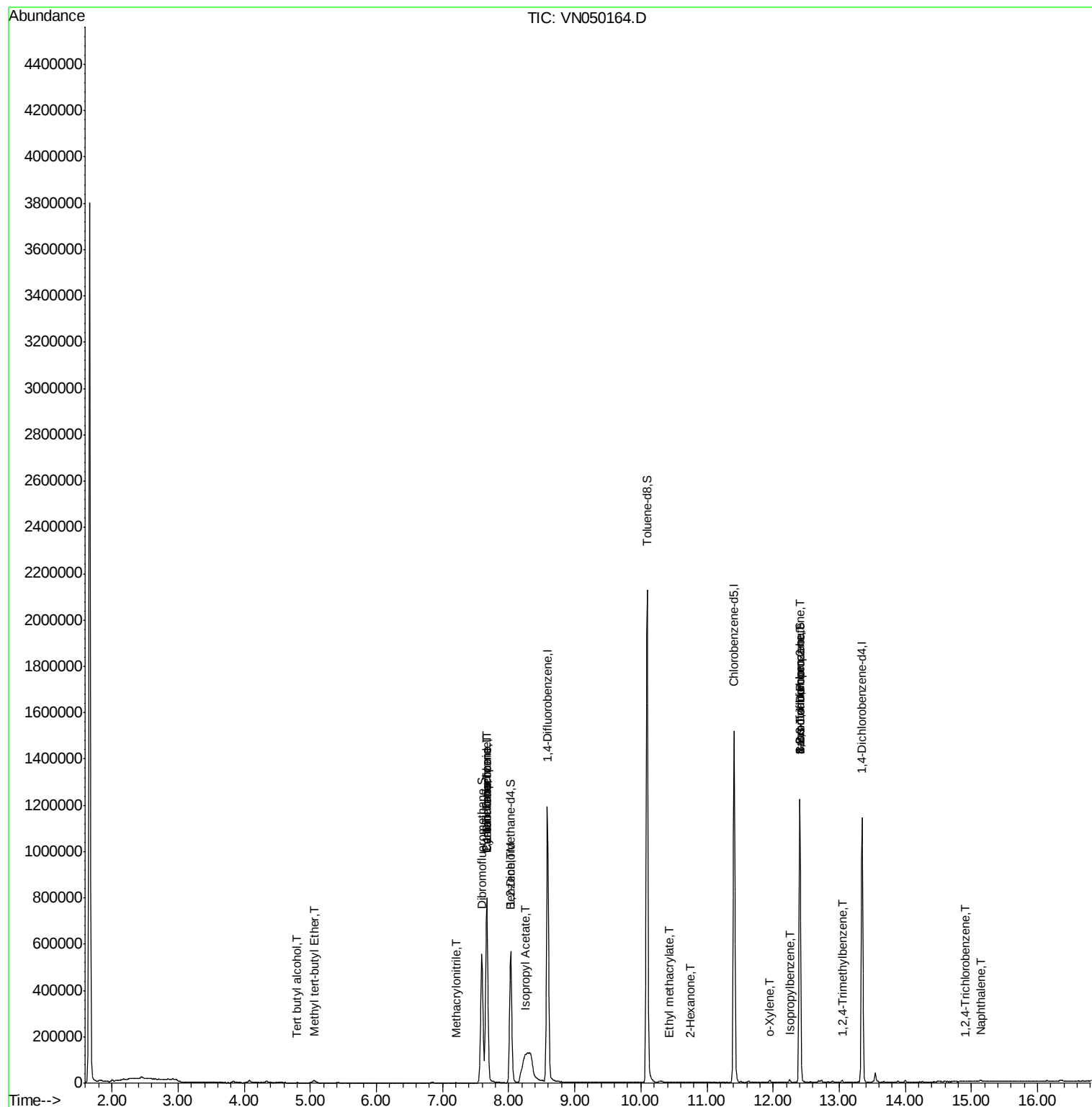
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1087	Below Cal	#	58
11) Tert butyl alcohol	4.79	59	267	0.39	ug/l #	72
18) Methyl Acetate	4.33	43	4238	Below Cal	#	37
19) Methyl tert-butyl Ether	5.06	73	13449	0.65	ug/l	100
20) Methylene Chloride	4.55	84	1078	Below Cal		91
31) Cyclohexane	7.67	56	12777	0.92	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	48635	3.85	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61375	4.58	ug/l #	17
40) Benzene	8.04	78	15056	0.39	ug/l	97
41) Methacrylonitrile	7.20	41	69	2.76	ug/l #	10
43) Isopropyl Acetate	8.25	43	141745	7.58	ug/l #	61
56) Ethyl methacrylate	10.43	69	32	2.03	ug/l #	1
59) 2-Hexanone	10.74	43	55	5.18	ug/l #	24
69) o-Xylene	11.95	106	3049	0.23	ug/l	83
71) Bromoform	12.40	173	3654	0.56	ug/l #	1
73) Isopropylbenzene	12.25	105	7263	0.28	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.56	83	118	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	201137	32.56	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	201137	103.27	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	5955	0.29	ug/l	86
93) 1,2,4-Trichlorobenzene	14.91	180	33	3.09	ug/l #	1
95) Naphthalene	15.14	128	5727	4.76	ug/l	97

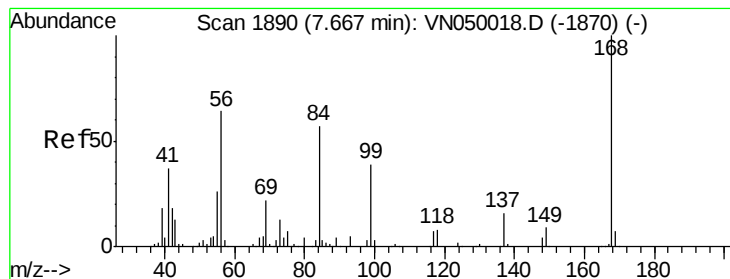
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampleId :

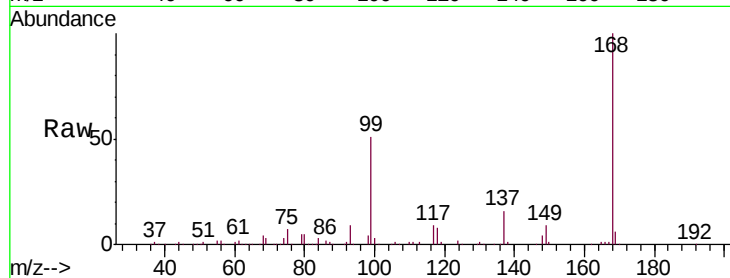
MW-30

Tot Ion:168 Resp: 672295

Ion Ratio Lower Upper

168 100

99 51.4 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

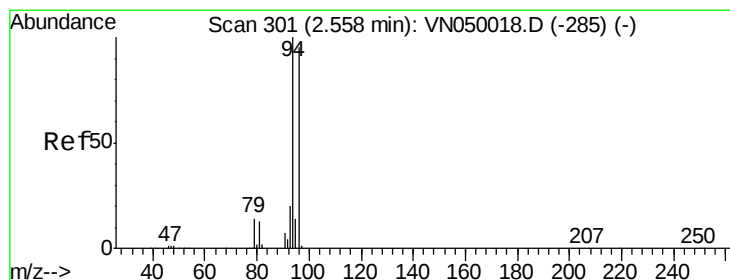
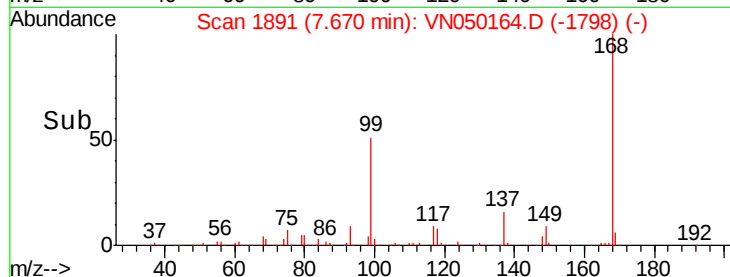
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.02 min

Lab File: VN050164.D

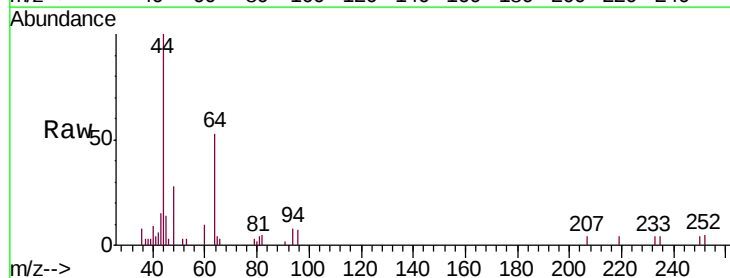
Acq: 28 Jul 2018 6:18

Tgt Ion: 94 Resp: 1087

Ion Ratio Lower Upper

94 100

96 53.1 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

600

500

400

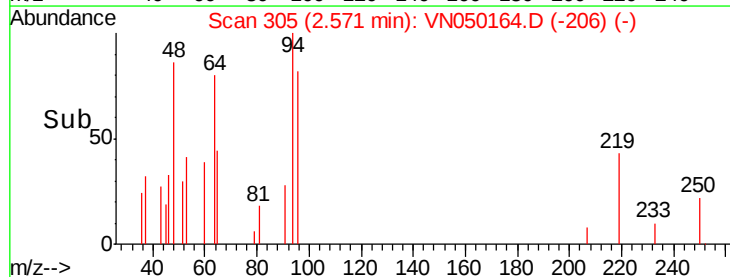
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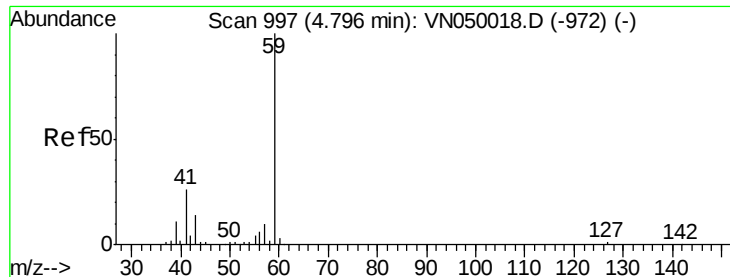
200

100

0

Time-->

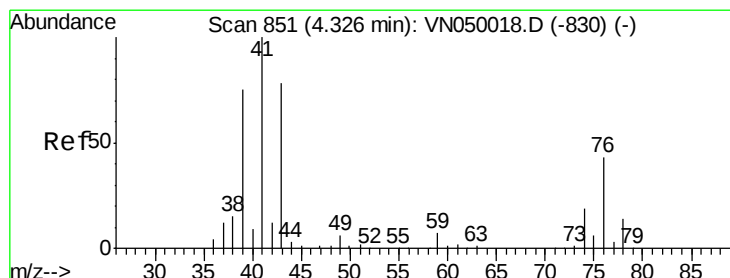
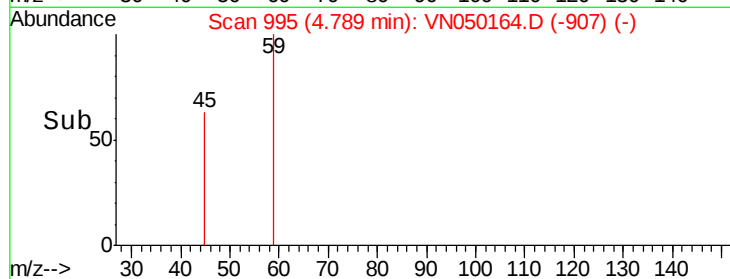
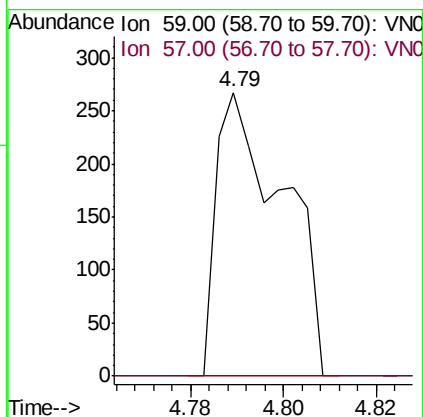
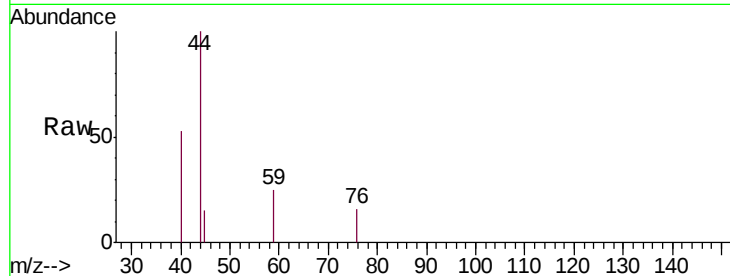




#11
Tert butyl alcohol
Concen: 0.39 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.02 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

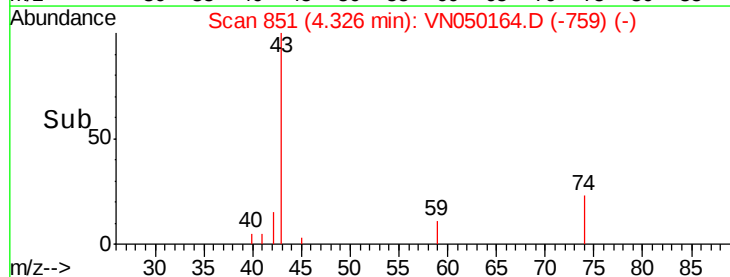
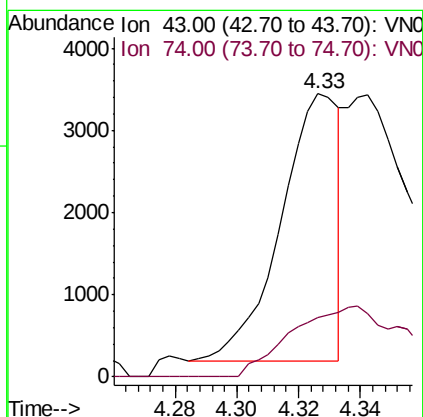
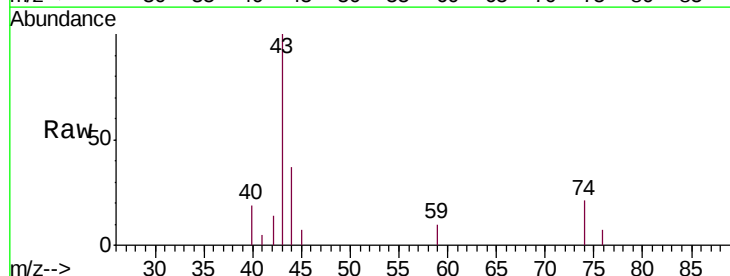
Instrument :
MSVOA_N
ClientSampled :
MW-30

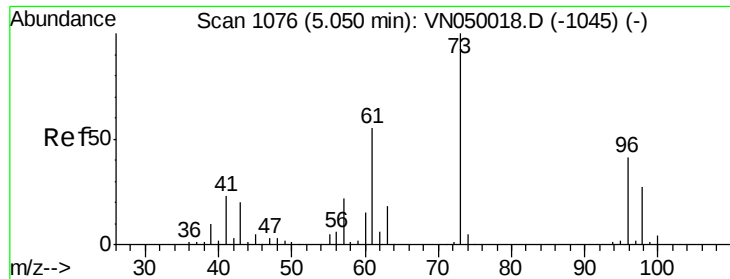
Tot Ion: 59 Resp: 267
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 851
Delta R.T. -0.01 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

Tgt Ion: 43 Resp: 4238
Ion Ratio Lower Upper
43 100
74 55.0 19.2 28.8#

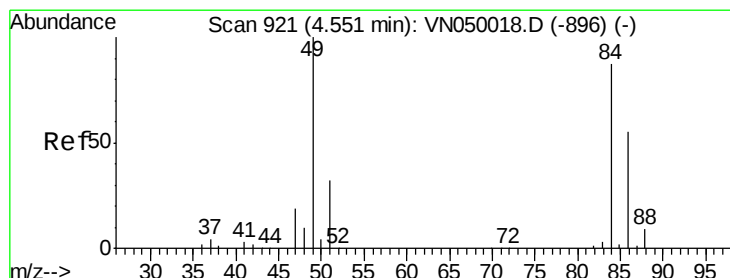
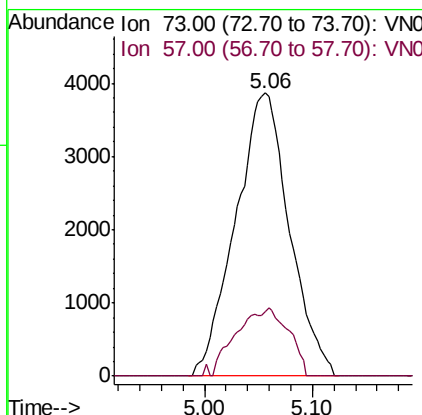
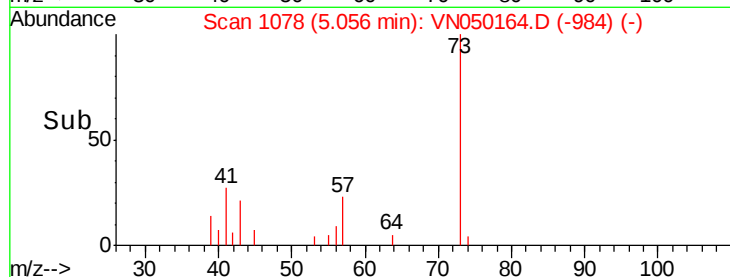
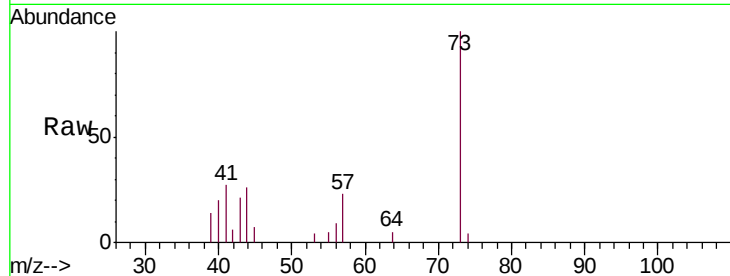




#19
Methyl tert-butyl Ether
Concen: 0.65 ug/l
RT: 5.06 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

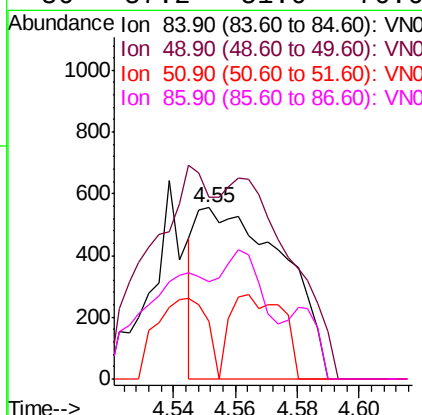
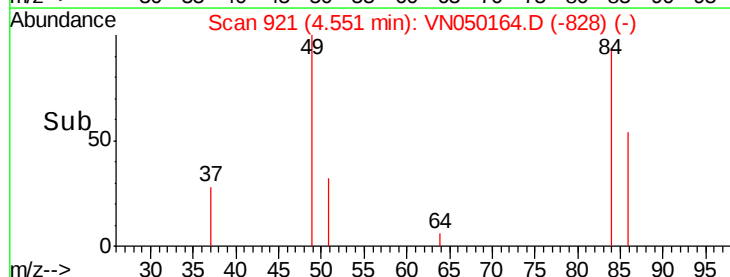
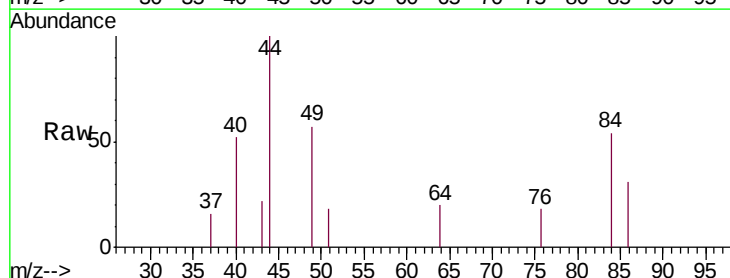
Instrument :
MSVOA_N
ClientSampleId :
MW-30

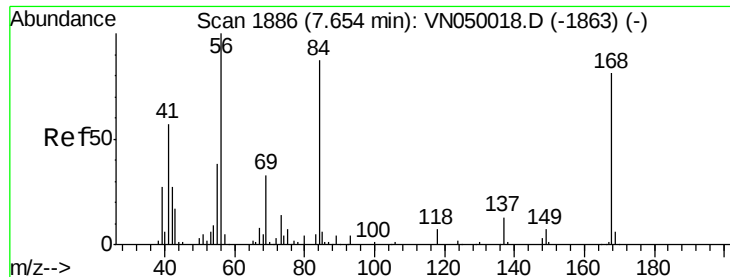
Tot Ion: 73 Resp: 13449
Ion Ratio Lower Upper
73 100
57 22.7 18.0 27.0



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

Tgt Ion: 84 Resp: 1078
Ion Ratio Lower Upper
84 100
49 106.0 94.8 142.2
51 33.9 28.3 42.5
86 57.2 51.0 76.6

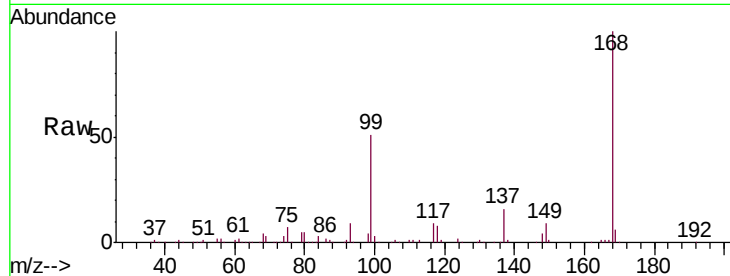




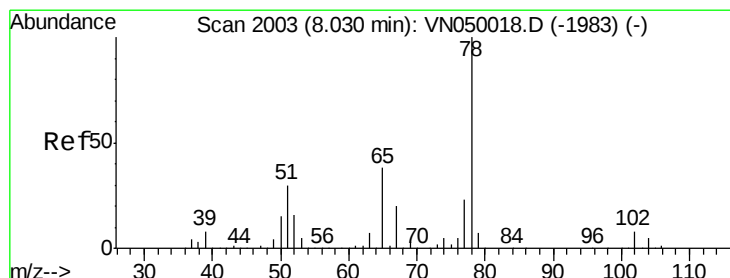
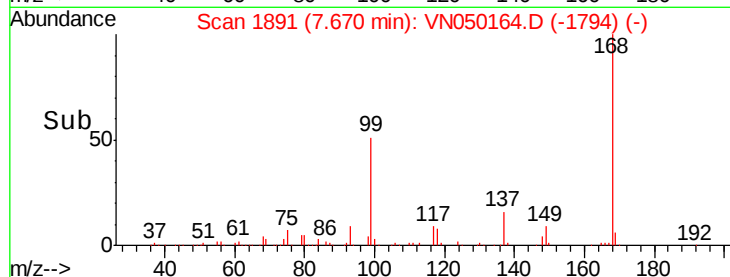
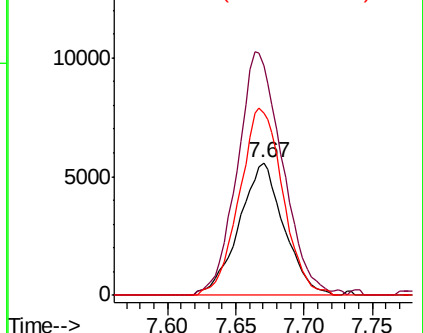
#31
Cyclohexane
Concen: 0.92 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

Instrument :
MSVOA_N
ClientSampled :
MW-30

Tot Ion: 56 Resp: 12777
Ion Ratio Lower Upper
56 100
69 172.8 26.2 39.4#
84 137.3 67.4 101.0#

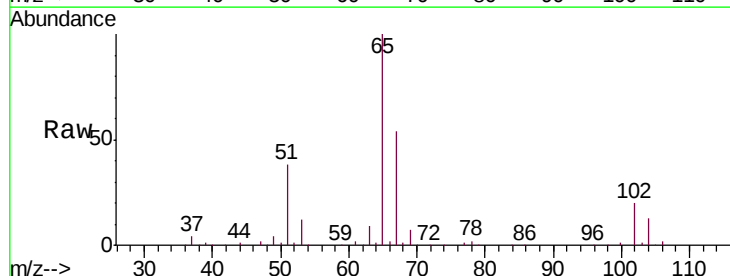


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

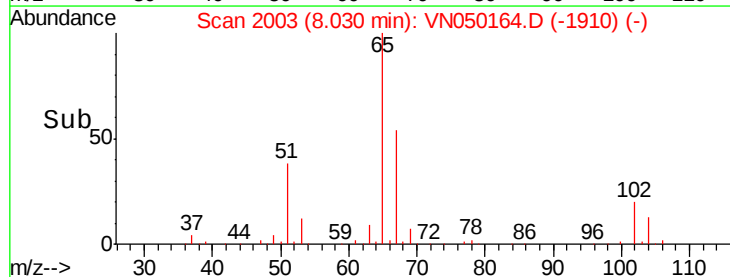
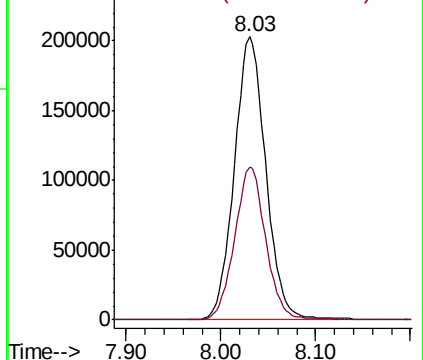


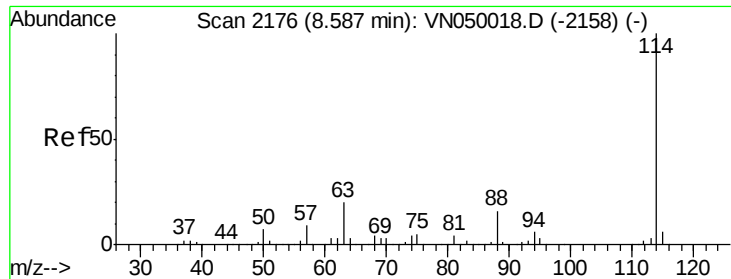
#33
1,2-Dichloroethane-d4
Concen: 49.95 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

Tgt Ion: 65 Resp: 468516
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

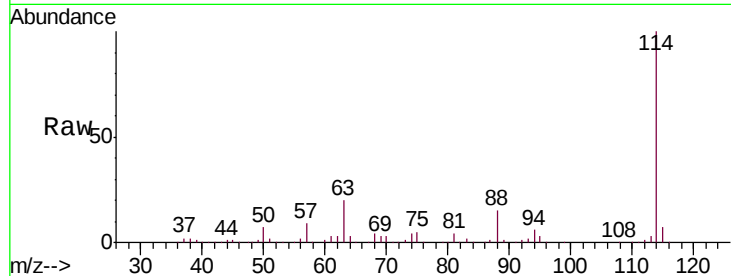




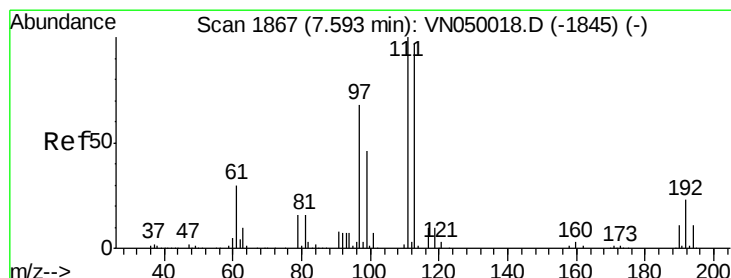
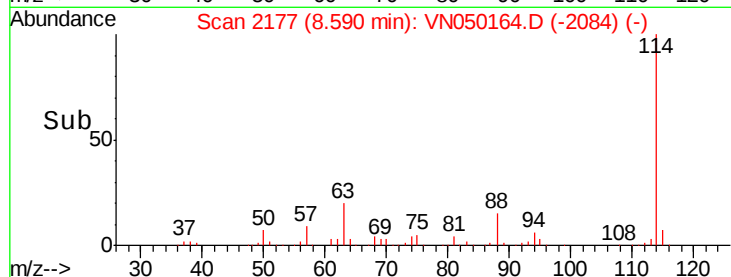
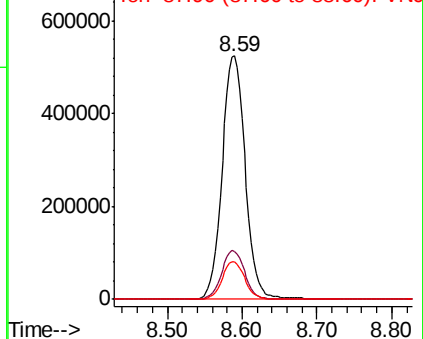
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050164.D
 Acq: 28 Jul 2018 6:18

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-30

Tot Ion:114 Resp: 1120339
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.3 0.0 31.2

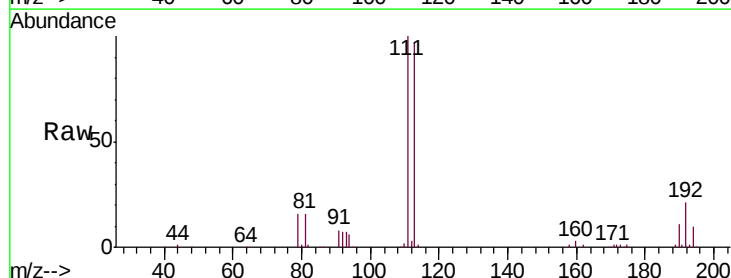


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

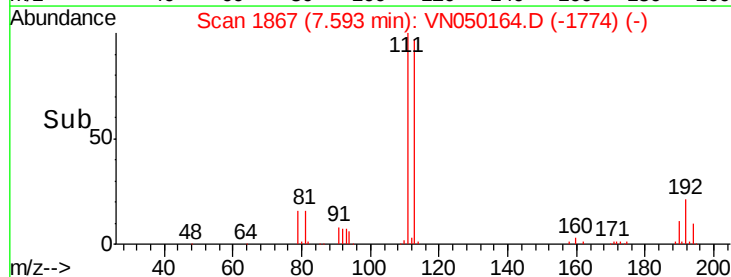
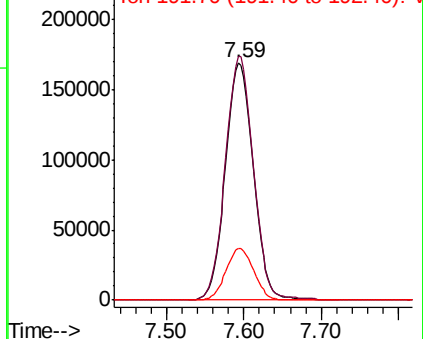


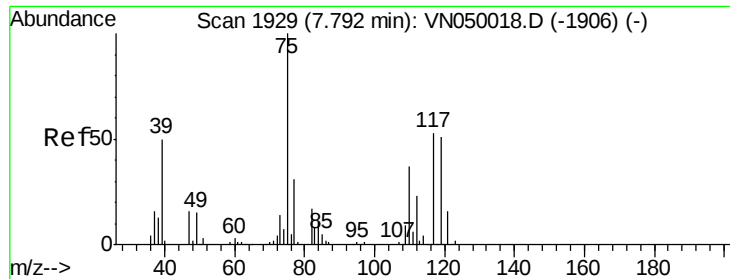
#35
 Dibromofluoromethane
 Concen: 46.47 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050164.D
 Acq: 28 Jul 2018 6:18

Tgt Ion:113 Resp: 425109
 Ion Ratio Lower Upper
 113 100
 111 102.6 80.7 121.1
 192 21.7 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

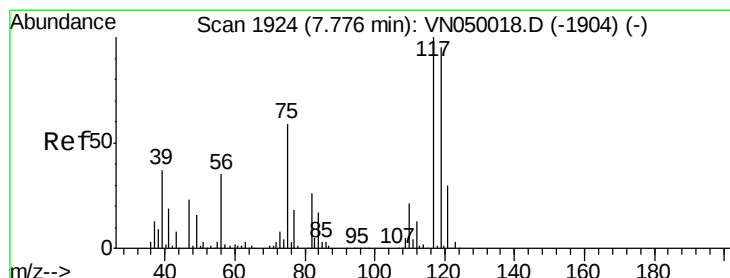
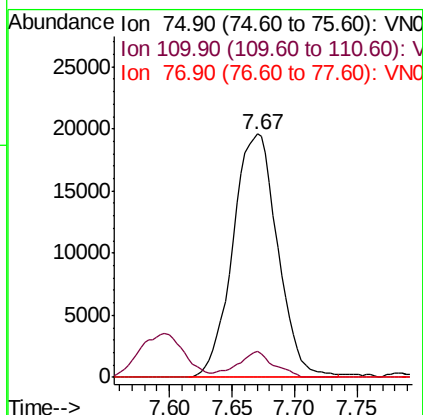
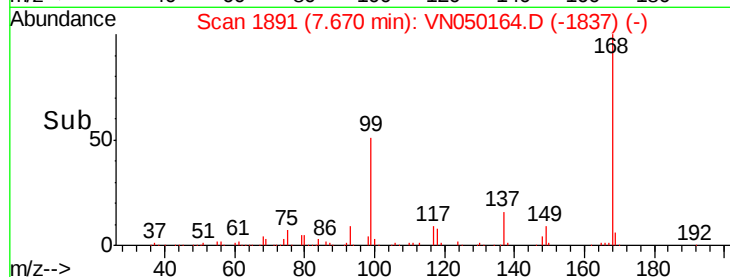
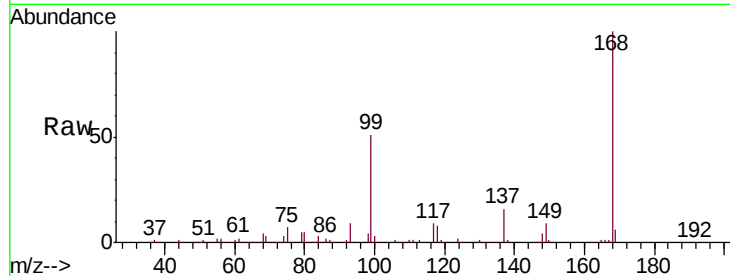




#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050164.D
 Acq: 28 Jul 2018 6:18

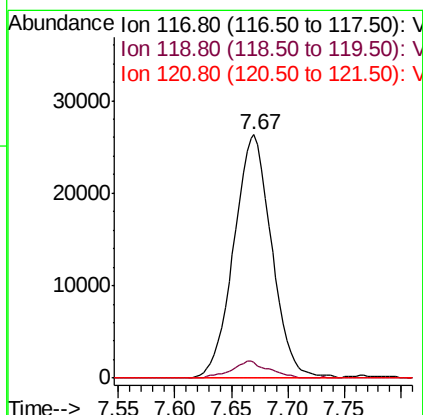
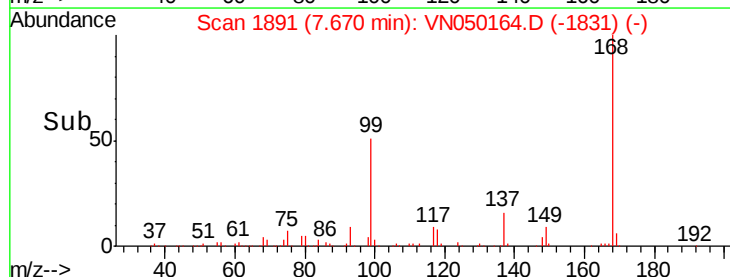
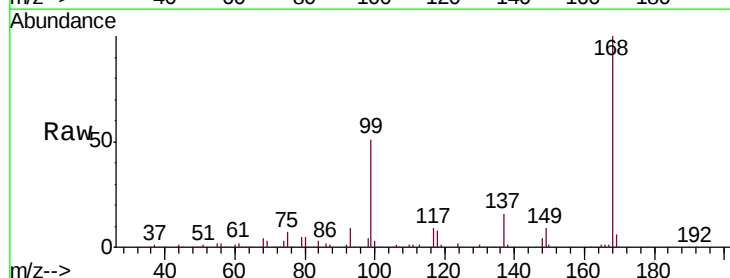
Instrument :
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 MW-30

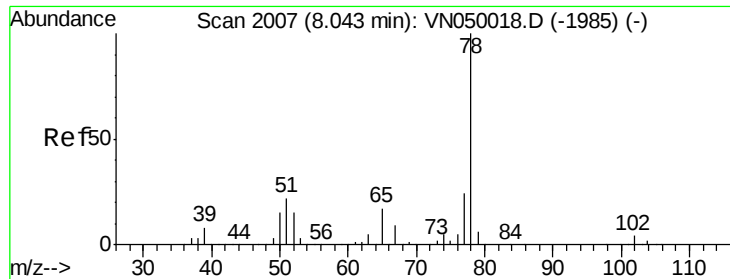
Tot Ion: 75 Resp: 48635
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.58 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050164.D
 Acq: 28 Jul 2018 6:18

Tgt Ion: 117 Resp: 61375
 Ion Ratio Lower Upper
 117 100
 119 6.3 77.4 116.0#
 121 0.0 23.9 35.9#





#40

Benzene

Concen: 0.39 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampleId :

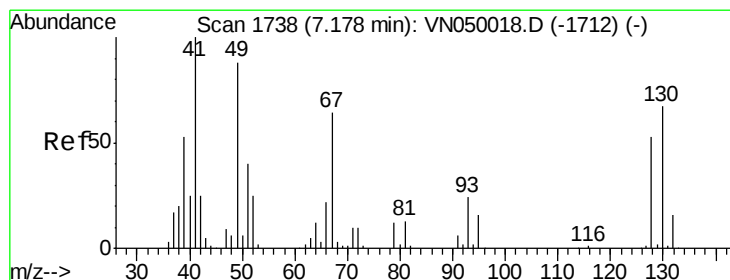
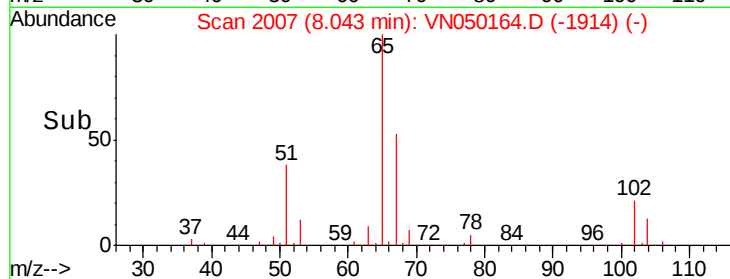
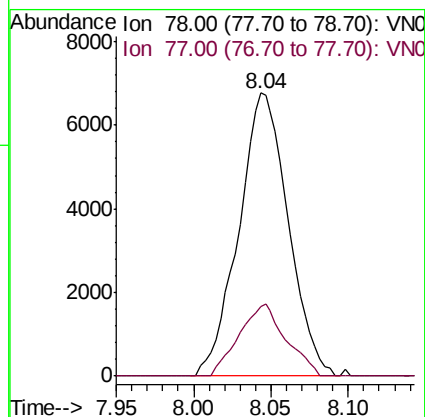
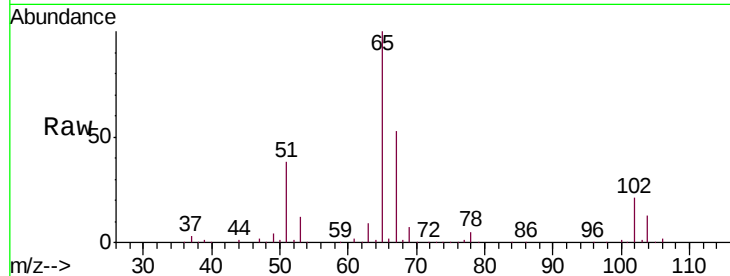
MW-30

Tot Ion: 78 Resp: 15056

Ion Ratio Lower Upper

78 100

77 24.7 18.7 28.1



#41

Methacrylonitrile

Concen: 2.76 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.03 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

Tgt Ion: 41 Resp: 69

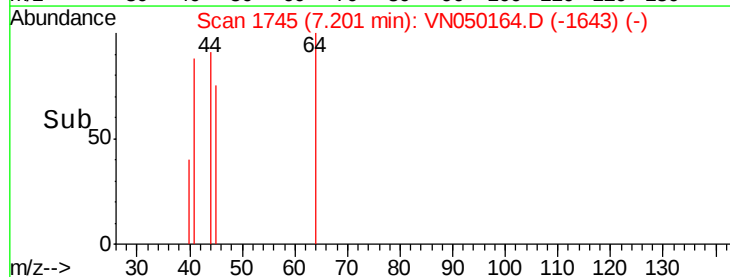
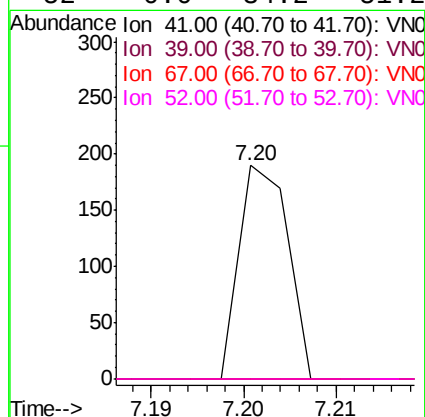
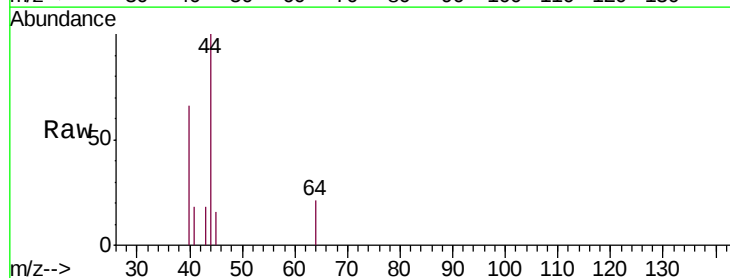
Ion Ratio Lower Upper

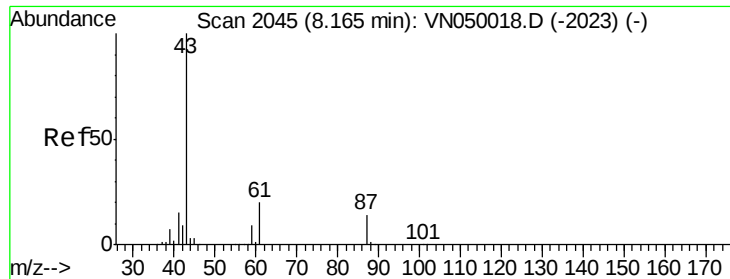
41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 7.58 ug/l

RT: 8.25 min Scan# 2070

Delta R.T. 0.08 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampleId :

MW-30

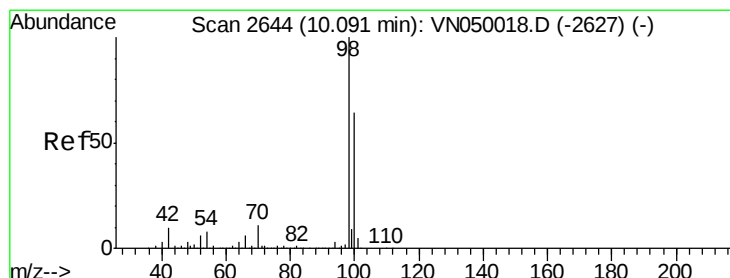
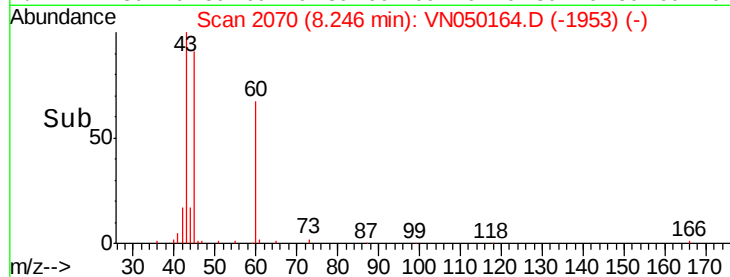
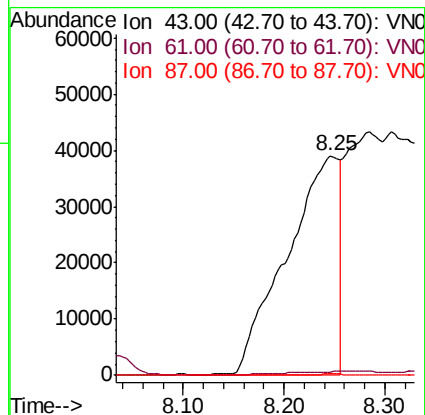
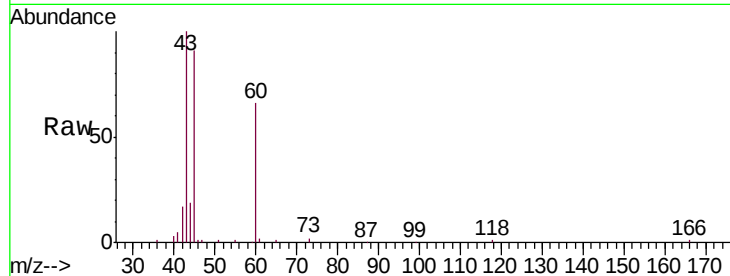
Tot Ion: 43 Resp: 141745

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.1 10.3 15.5#



#50

Toluene-d8

Concen: 44.88 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050164.D

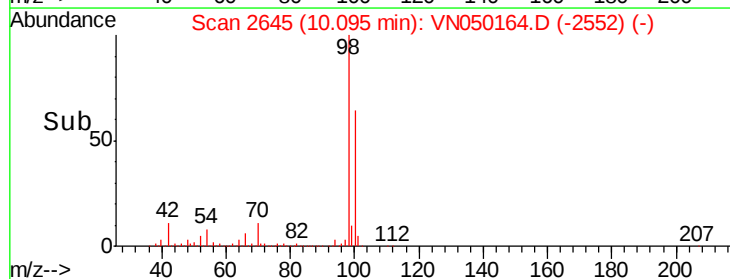
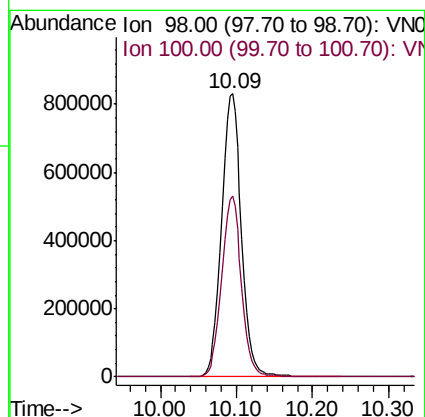
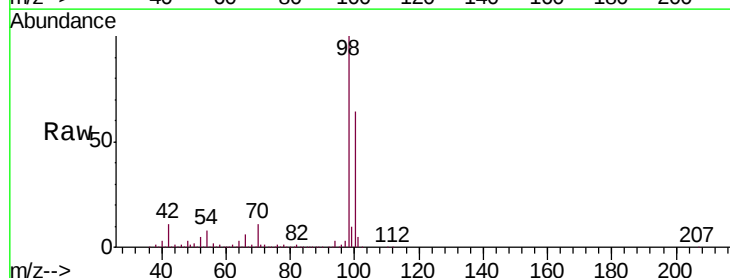
Acq: 28 Jul 2018 6:18

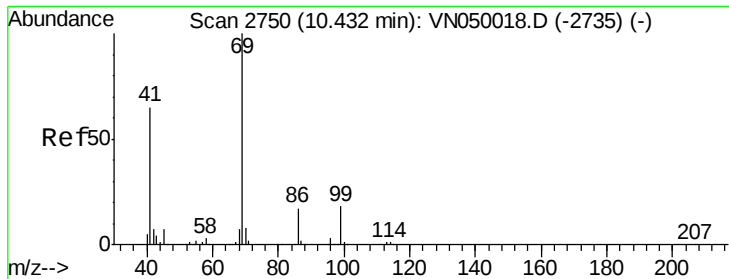
Tgt Ion: 98 Resp: 1509398

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1





#56

Ethyl methacrylate

Concen: 2.03 ug/l

RT: 10.43 min Scan# 2748

Delta R.T. -0.01 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampleId :

MW-30

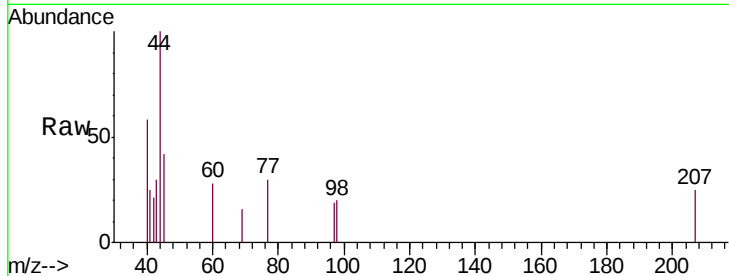
Tot Ion: 69 Resp: 32

Ion Ratio Lower Upper

69 100

41 1171.9 51.0 76.4#

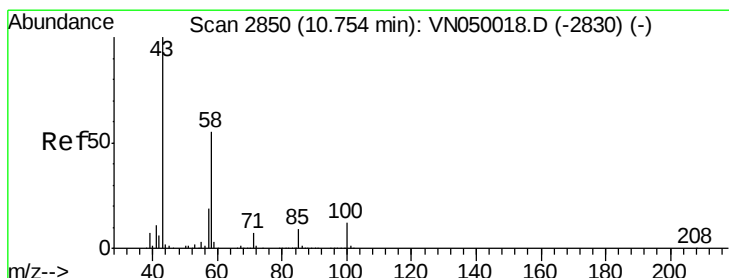
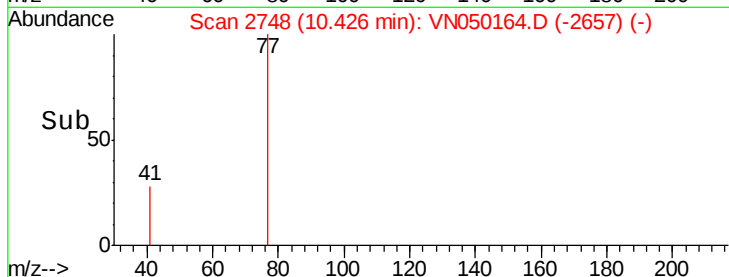
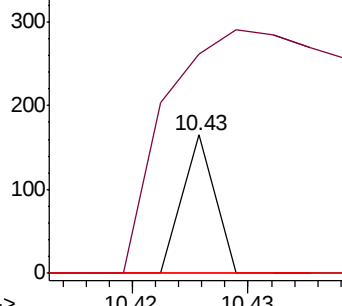
39 0.0 26.6 40.0#



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: 5.18 ug/l

RT: 10.74 min Scan# 2846

Delta R.T. -0.01 min

Lab File: VN050164.D

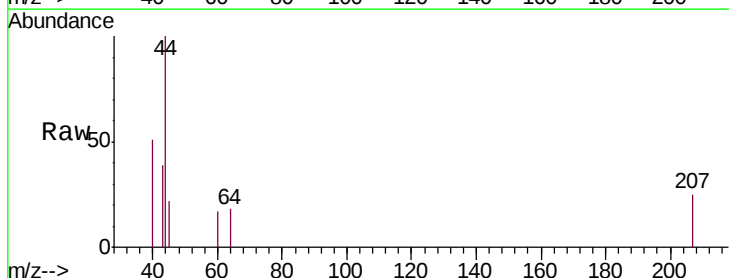
Acq: 28 Jul 2018 6:18

Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

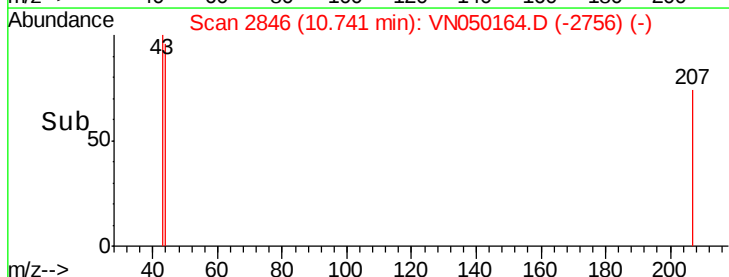
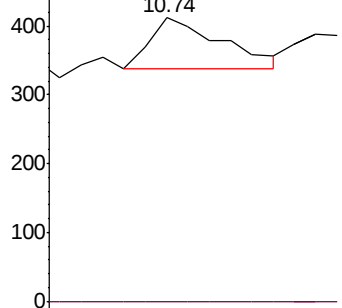
43 100

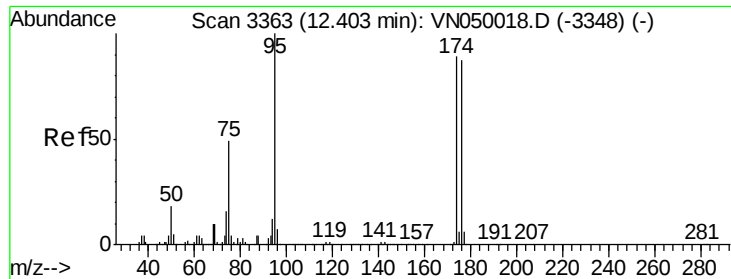
58 0.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 37.35 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampleId :

MW-30

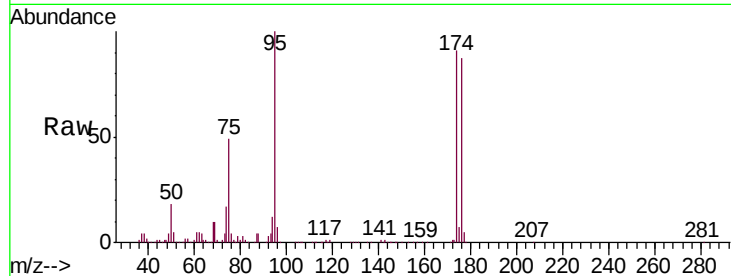
Tot Ion: 95 Resp: 413568

Ion Ratio Lower Upper

95 100

174 92.0 0.0 178.2

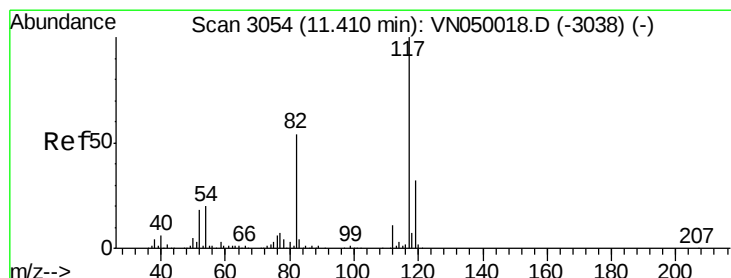
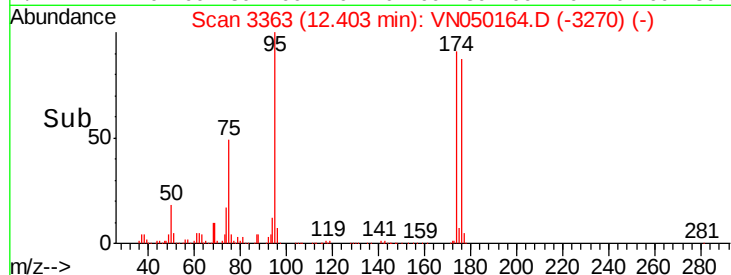
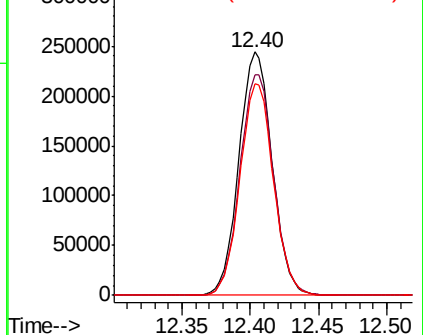
176 87.5 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

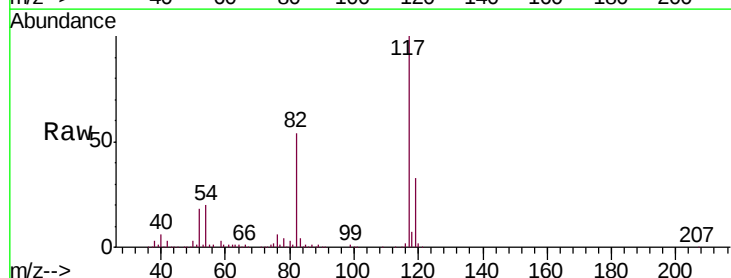
Tgt Ion: 117 Resp: 921732

Ion Ratio Lower Upper

117 100

82 54.1 43.7 65.5

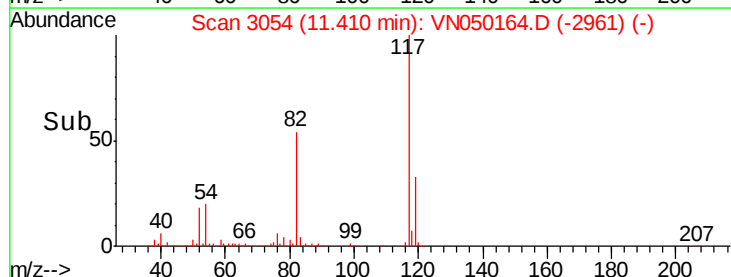
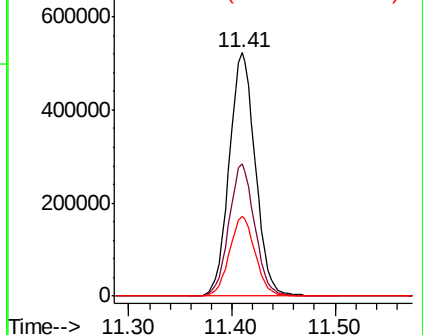
119 32.8 26.1 39.1

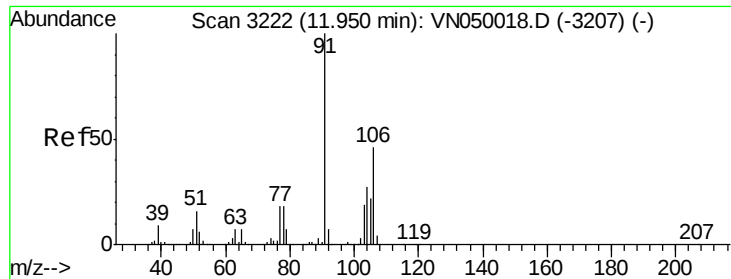


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

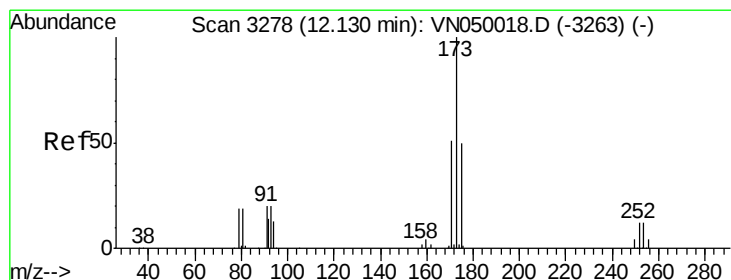
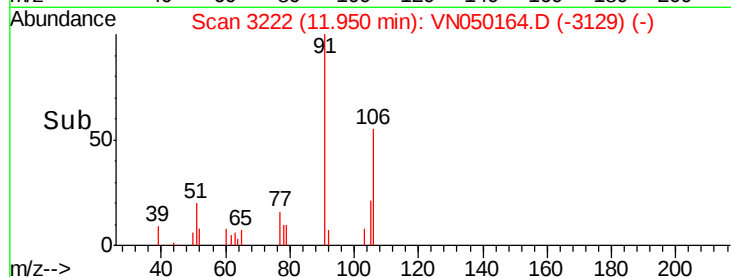
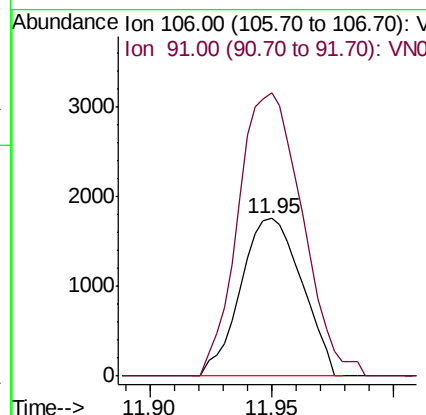
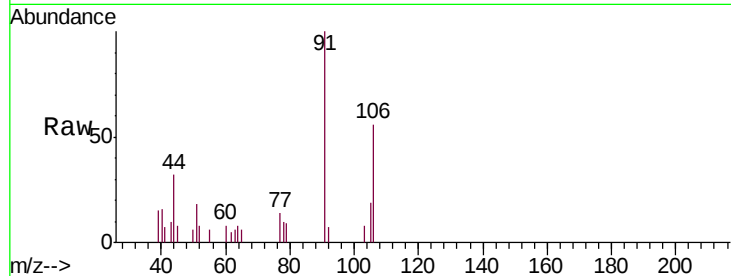




#69
o-Xylene
Concen: 0.23 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

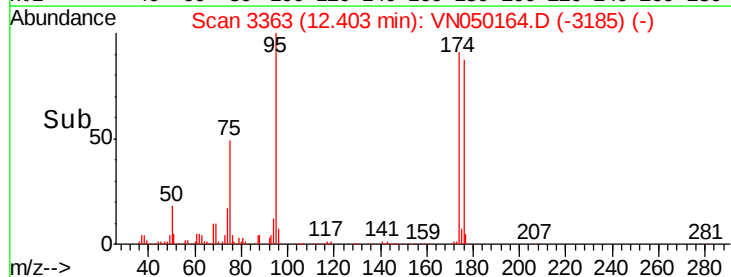
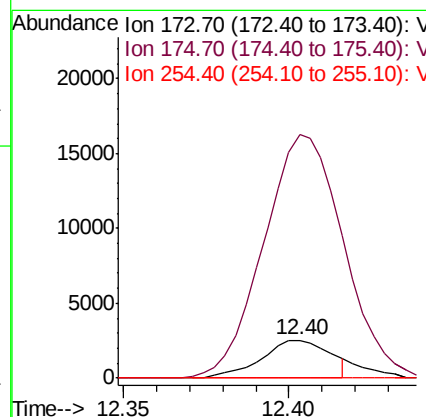
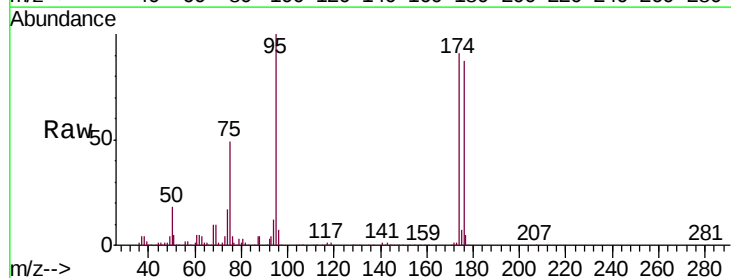
Instrument :
MSVOA_N
ClientSampleId :
MW-30

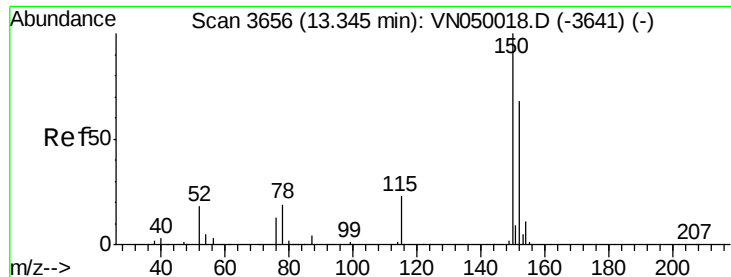
Tot Ion:106 Resp: 3049
Ion Ratio Lower Upper
106 100
91 188.8 107.7 323.1



#71
Bromoform
Concen: 0.56 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.27 min
Lab File: VN050164.D
Acq: 28 Jul 2018 6:18

Tgt Ion:173 Resp: 3654
Ion Ratio Lower Upper
173 100
175 658.3 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: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampled :

MW-30

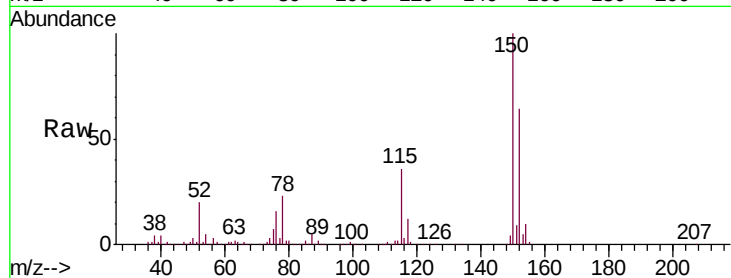
Tot Ion:152 Resp: 332415

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

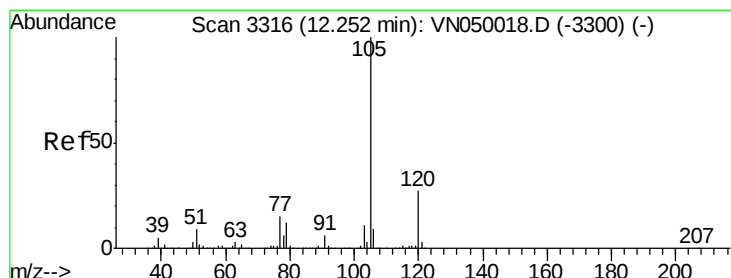
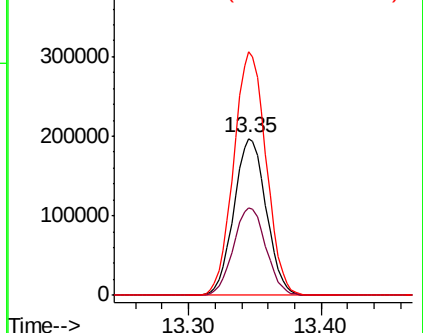
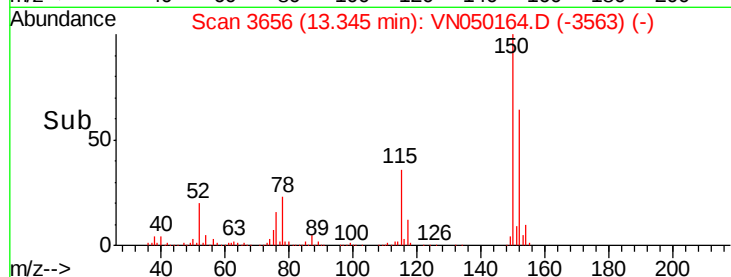
150 156.2 0.0 348.6



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



#73

Isopropylbenzene

Concen: 0.28 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050164.D

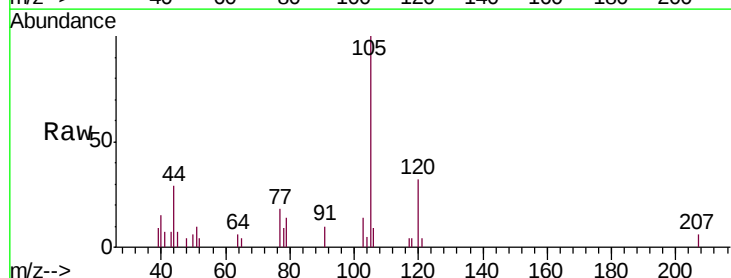
Acq: 28 Jul 2018 6:18

Tgt Ion:105 Resp: 7263

Ion Ratio Lower Upper

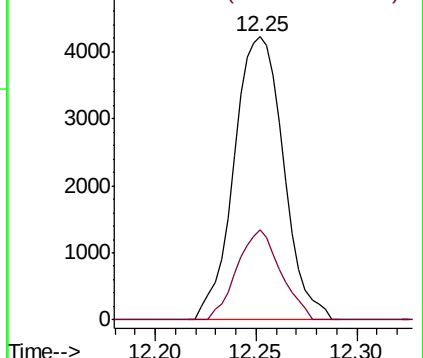
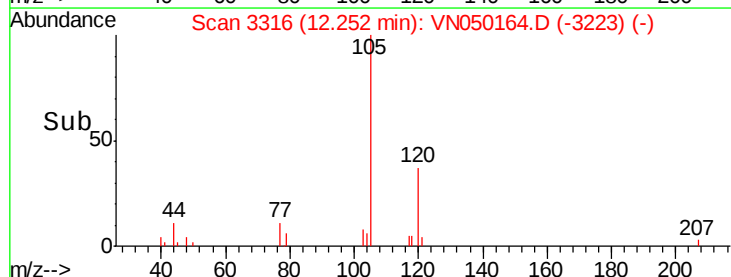
105 100

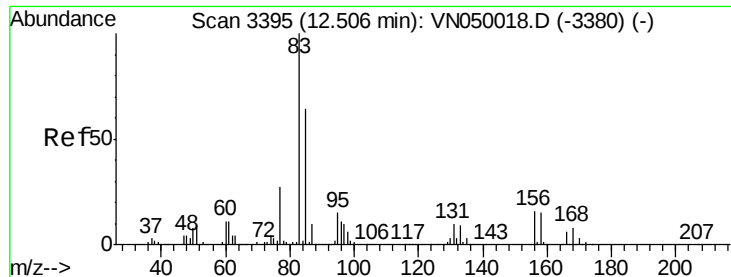
120 28.0 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.56 min Scan# 3413

Delta R.T. 0.06 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampleId :

MW-30

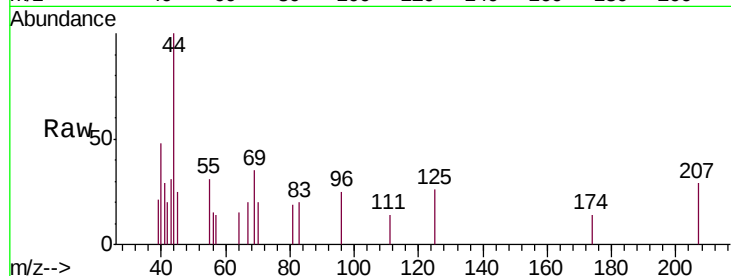
Tot Ion: 83 Resp: 118

Ion Ratio Lower Upper

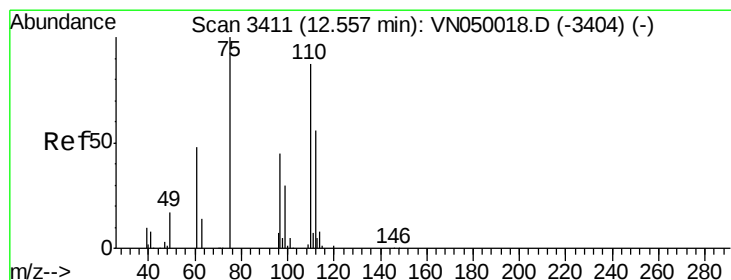
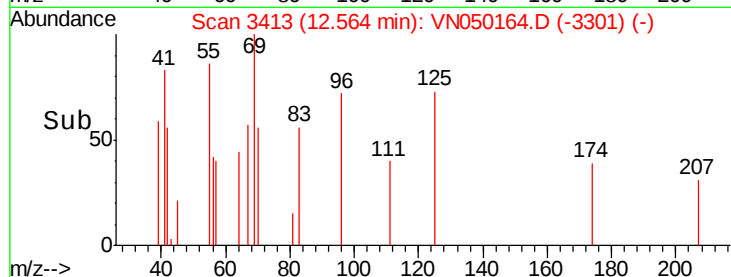
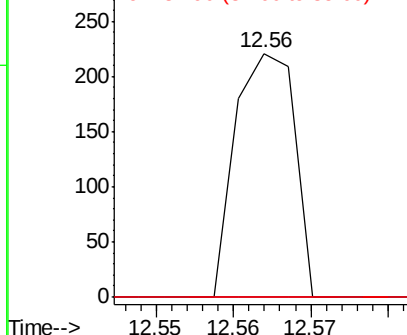
83 100

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): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 32.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050164.D

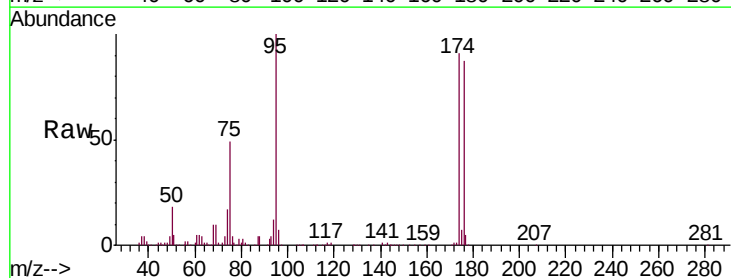
Acq: 28 Jul 2018 6:18

Tgt Ion: 75 Resp: 201137

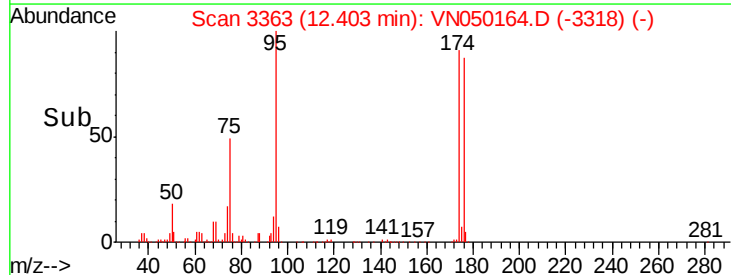
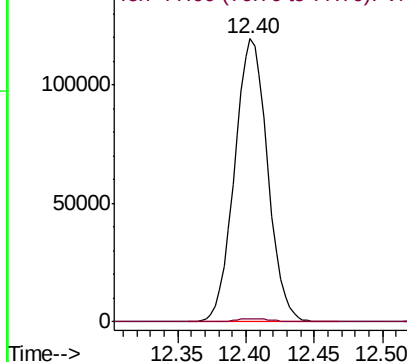
Ion Ratio Lower Upper

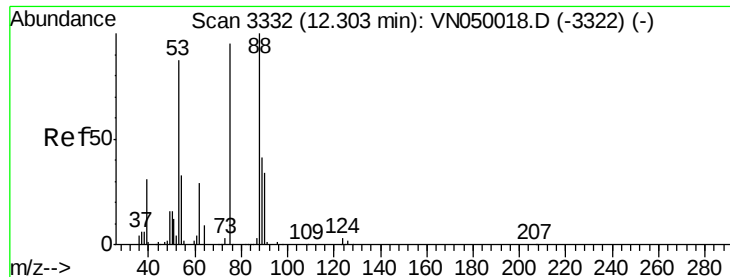
75 100

77 1.2 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: 103.27 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050164.D

Acq: 28 Jul 2018 6:18

Instrument :

MSVOA_N

ClientSampled :

MW-30

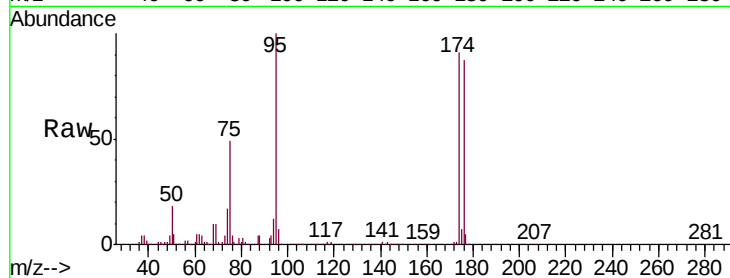
Tot Ion: 75 Resp: 201137

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

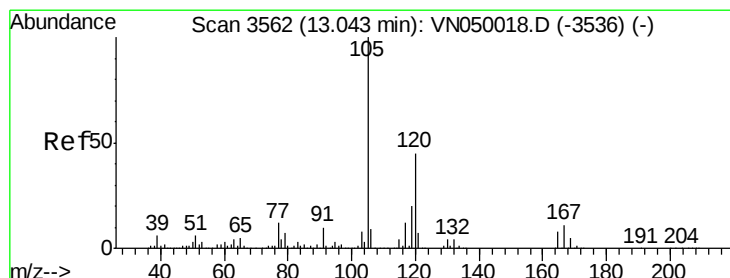
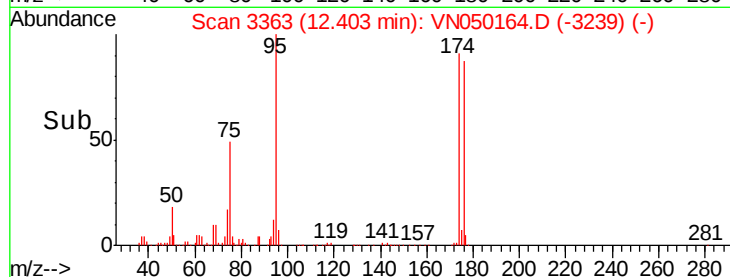
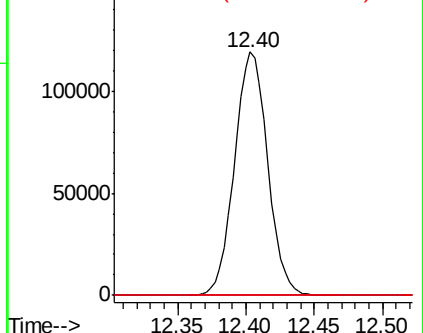
89 0.0 36.0 54.0#



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# 3561

Delta R.T. -0.00 min

Lab File: VN050164.D

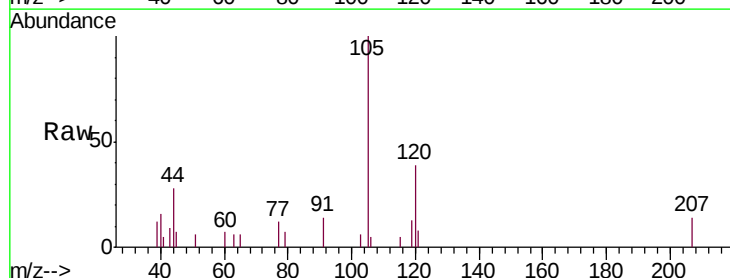
Acq: 28 Jul 2018 6:18

Tgt Ion: 105 Resp: 5955

Ion Ratio Lower Upper

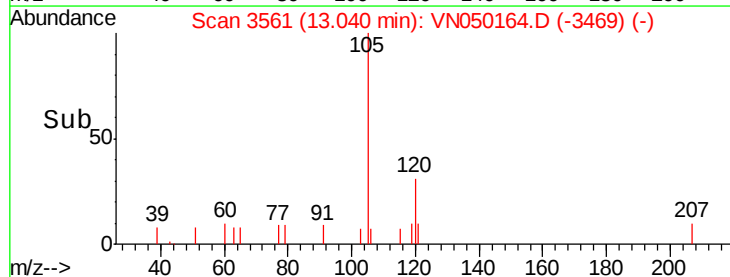
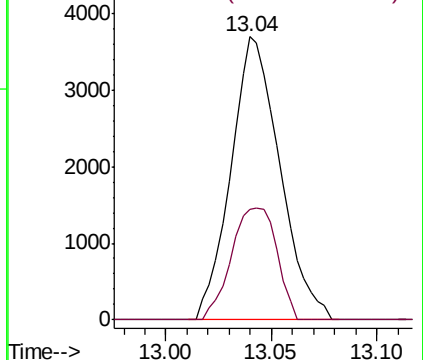
105 100

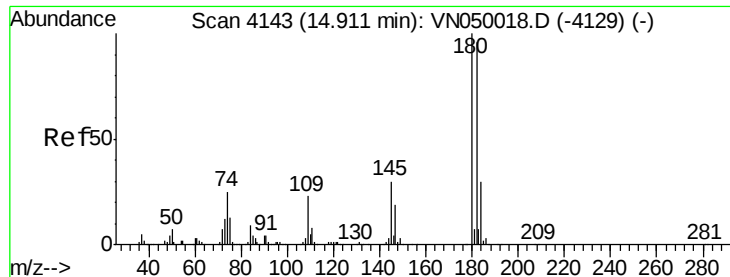
120 36.7 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

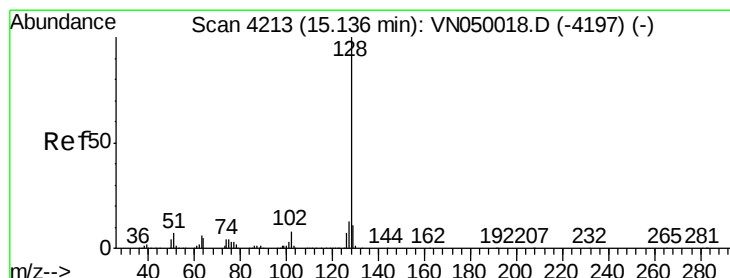
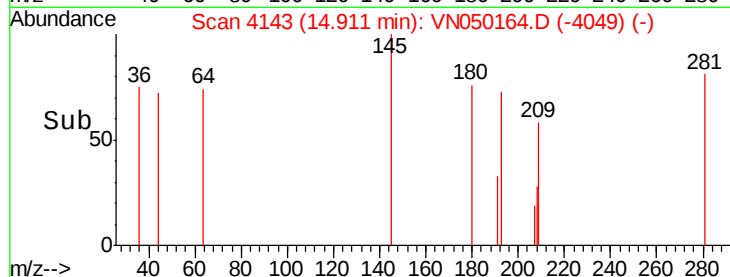
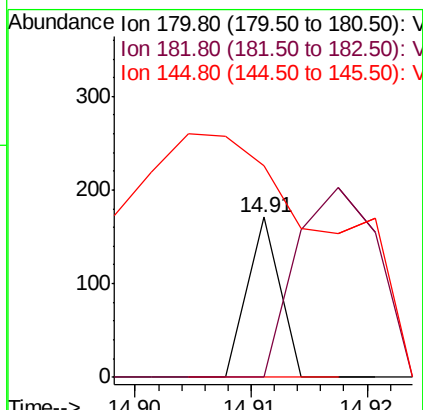
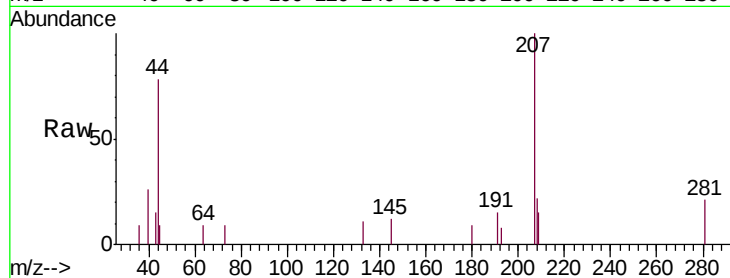




#93
 1,2,4-Trichlorobenzene
 Concen: 3.09 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050164.D
 Acq: 28 Jul 2018 6:18

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-30

Tot Ion:180 Resp: 33
 Ion Ratio Lower Upper
 180 100
 182 300.0 46.7 140.1#
 145 945.5 13.8 41.4#



#95
 Naphthalene
 Concen: 4.76 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050164.D
 Acq: 28 Jul 2018 6:18

Tgt Ion:128 Resp: 5727
 Ion Ratio Lower Upper
 128 100
 127 14.9 10.4 15.6
 129 10.8 8.8 13.2

