

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050090.D
 Acq On : 26 Jul 2018 18:31
 Operator : MD\SY
 Sample : J4142-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-12

Quant Time: Jul 27 01:22:20 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	654163	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1054081	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	877412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	326706	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	461669	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
35) Dibromofluoromethane	7.60	113	405567	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	
50) Toluene-d8	10.09	98	1428056	45.13	ug/l	0.00
Spiked Amount			Recovery	=	90.26%	
62) 4-Bromofluorobenzene	12.40	95	401822	38.57	ug/l	0.00
Spiked Amount			Recovery	=	77.14%	

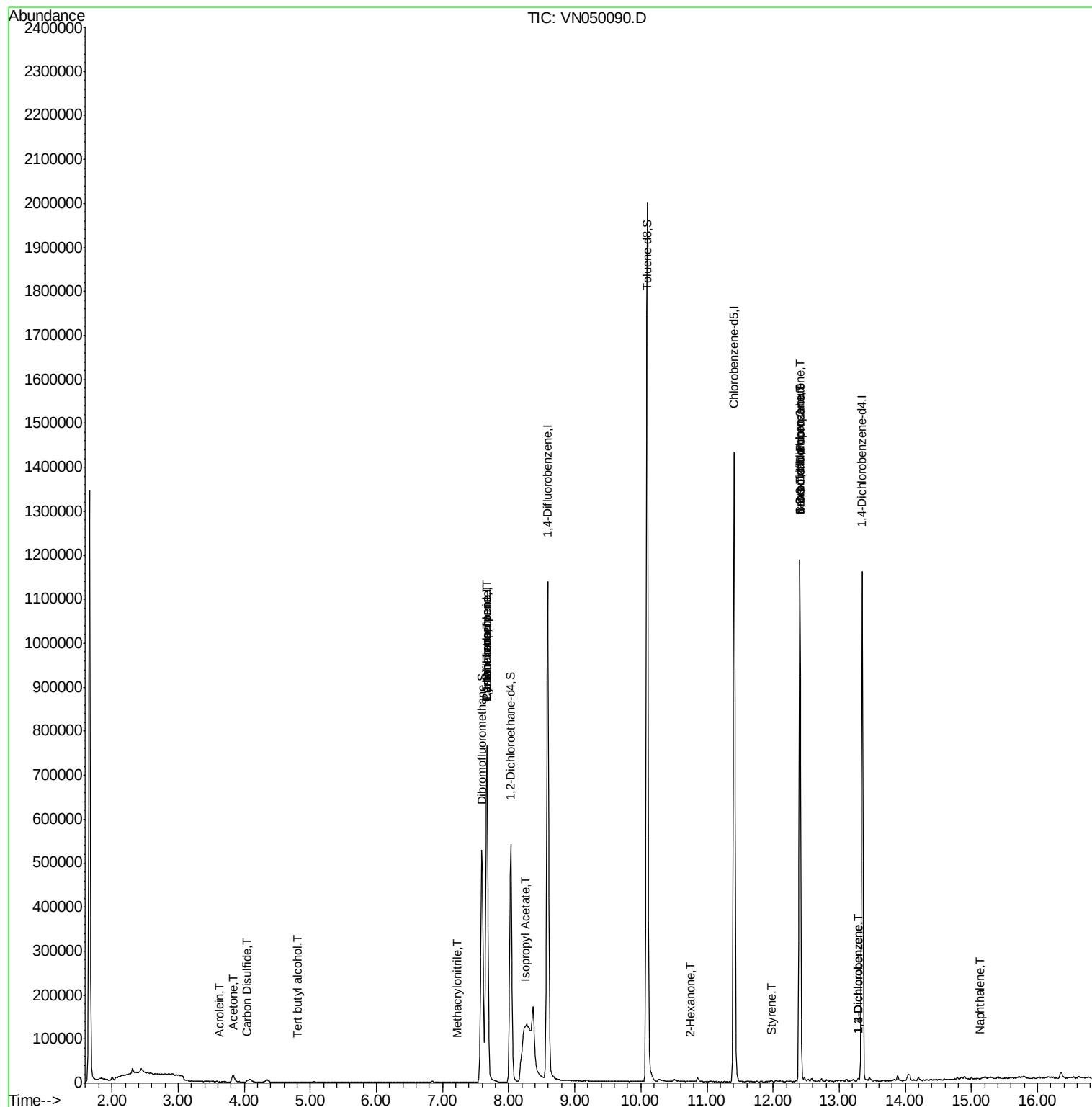
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	135	Below Cal	#	18
11) Tert butyl alcohol	4.81	59	266	0.40	ug/l #	72
13) Acrolein	3.62	56	156	0.29	ug/l #	68
16) Acetone	3.83	43	25670	7.73	ug/l	96
17) Carbon Disulfide	4.05	76	7204	0.31	ug/l	100
18) Methyl Acetate	4.34	43	12877	Below Cal	#	73
20) Methylene Chloride	4.55	84	134	Below Cal	#	18
31) Cyclohexane	7.67	56	12003	0.89	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46735	3.94	ug/l #	42
38) Carbon Tetrachloride	7.67	117	59651	4.73	ug/l #	17
41) Methacrylonitrile	7.23	41	154	2.78	ug/l #	28
43) Isopropyl Acetate	8.24	43	139414	7.98	ug/l #	62
59) 2-Hexanone	10.75	43	199	5.21	ug/l #	24
70) Styrene	11.97	104	60	0.93	ug/l #	25
71) Bromoform	12.40	173	3294	0.53	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.53	83	62	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	196664	32.39	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	196664	102.74	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	2947	0.25	ug/l	97
88) 1,4-Dichlorobenzene	13.28	146	2947	0.25	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.07	75	67	Below Cal	#	1
95) Naphthalene	15.13	128	262	4.43	ug/l #	69

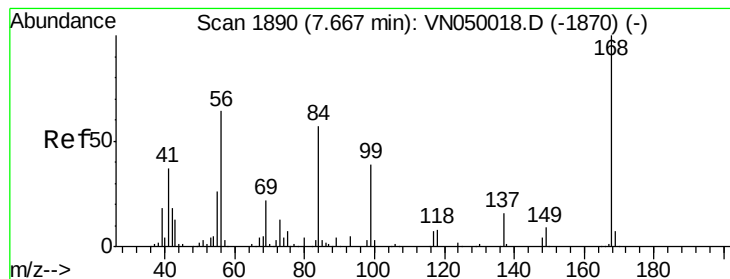
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampleId :

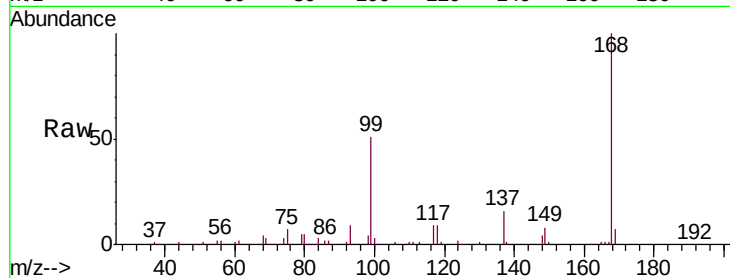
MW-12

Tot Ion:168 Resp: 654163

Ion Ratio Lower Upper

168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

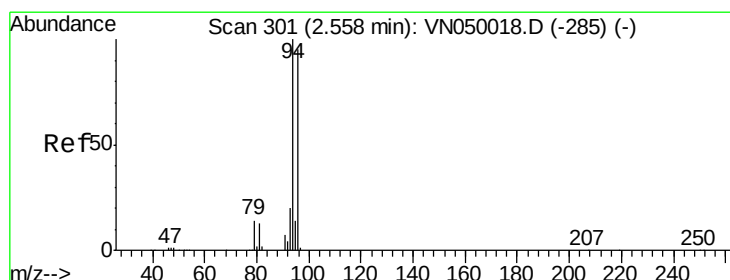
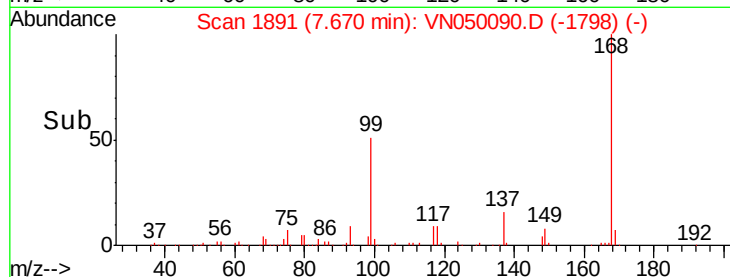
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050090.D

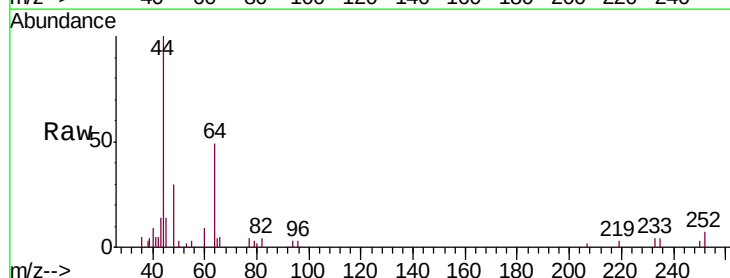
Acq: 26 Jul 2018 18:31

Tgt Ion: 94 Resp: 135

Ion Ratio Lower Upper

94 100

96 14.3 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

250

200

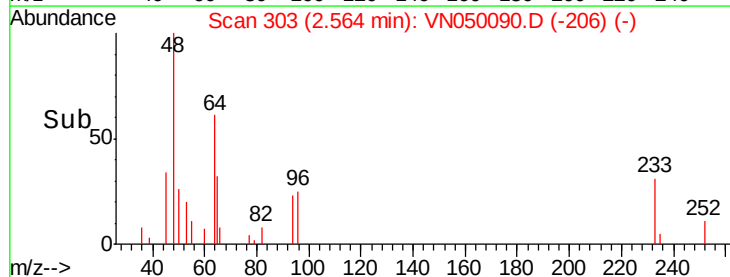
150

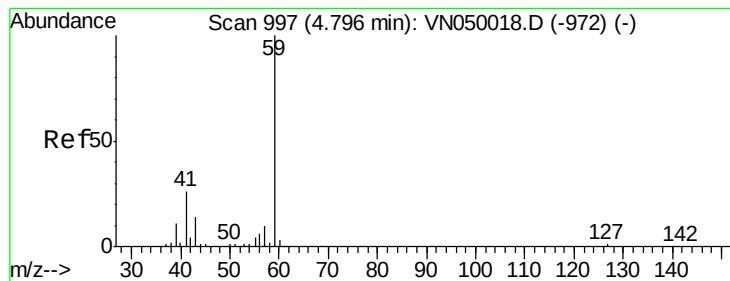
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 0.40 ug/l

RT: 4.81 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

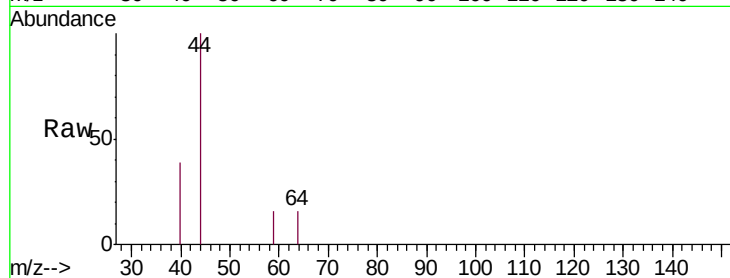
MW-12

Tot Ion: 59 Resp: 266

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

250

200

150

100

50

0

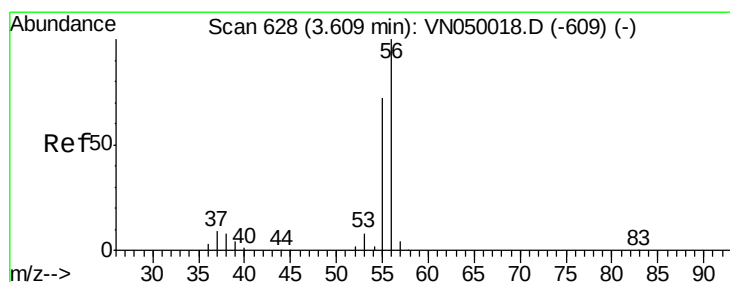
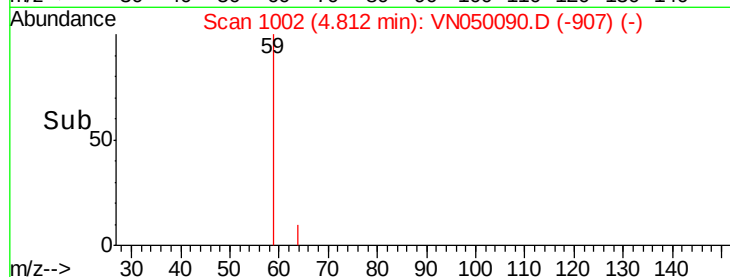
4.78

4.80

4.81

4.82

Time-->



#13

Acrolein

Concen: 0.29 ug/l

RT: 3.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN050090.D

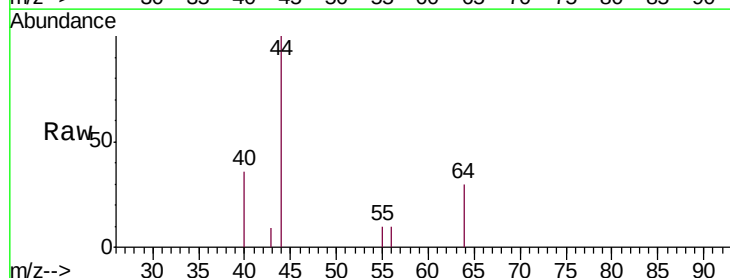
Acq: 26 Jul 2018 18:31

Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

55 43.6 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

200

150

100

50

0

3.60

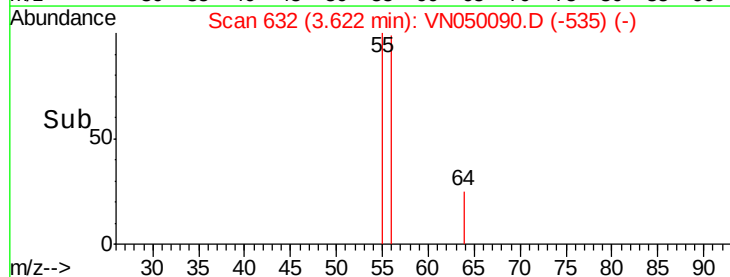
3.61

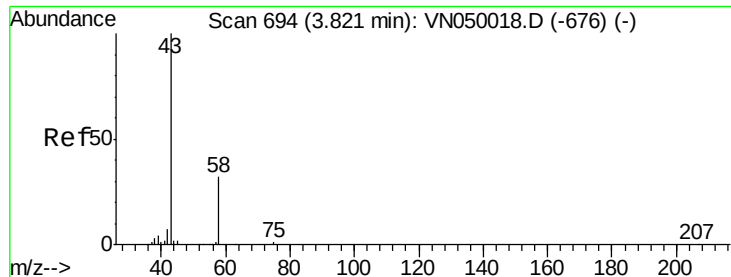
3.62

3.63

3.64

Time-->





#16

Acetone

Concen: 7.73 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

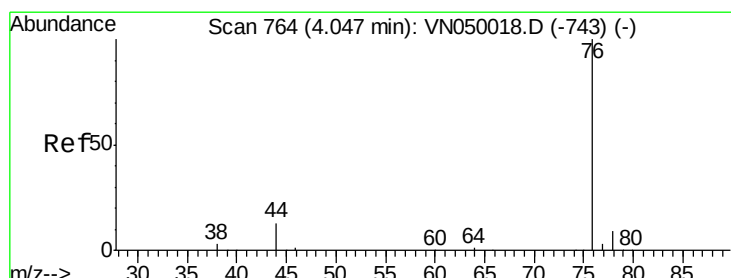
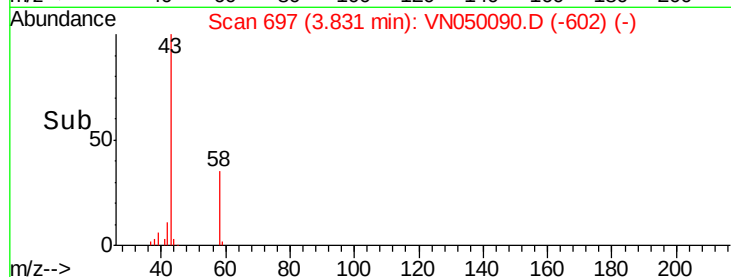
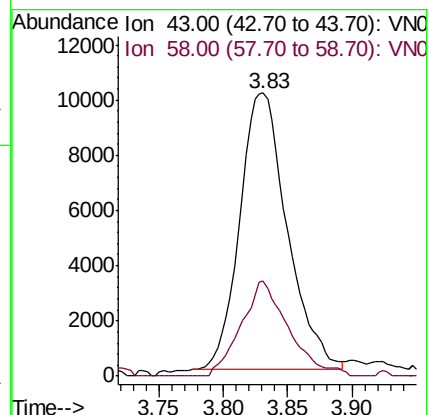
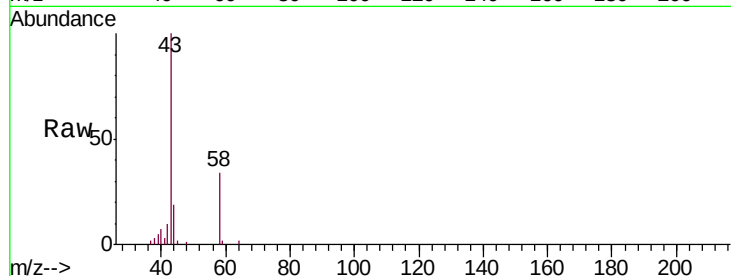
MW-12

Tot Ion: 43 Resp: 25670

Ion Ratio Lower Upper

43 100

58 34.6 25.8 38.8



#17

Carbon Disulfide

Concen: 0.31 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050090.D

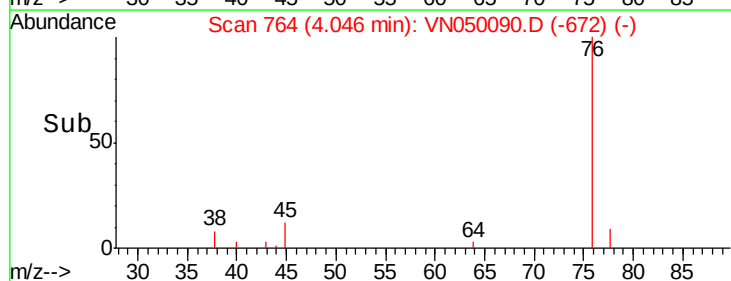
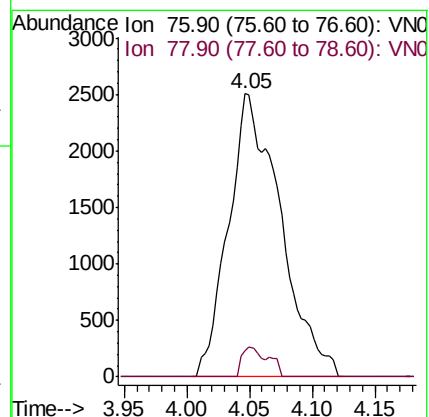
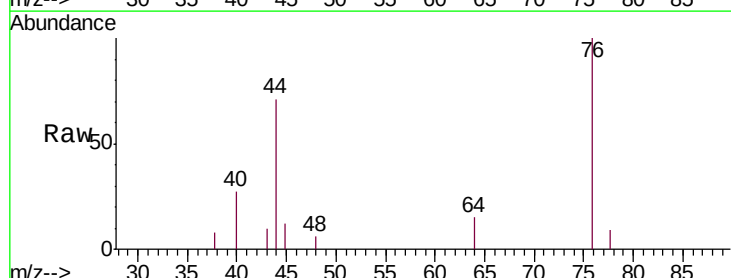
Acq: 26 Jul 2018 18:31

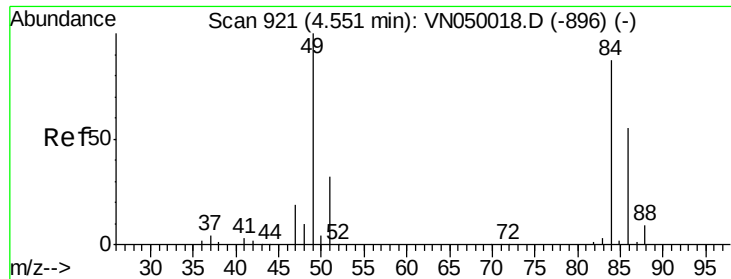
Tgt Ion: 76 Resp: 7204

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

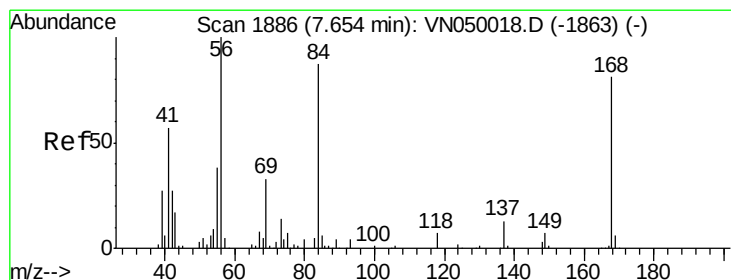
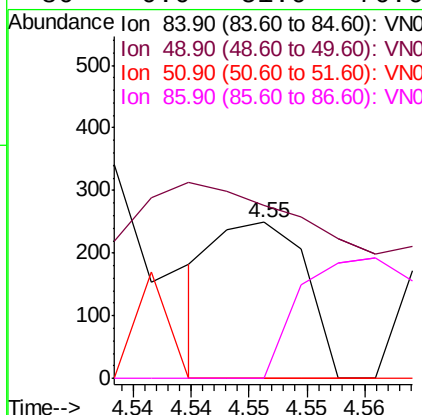
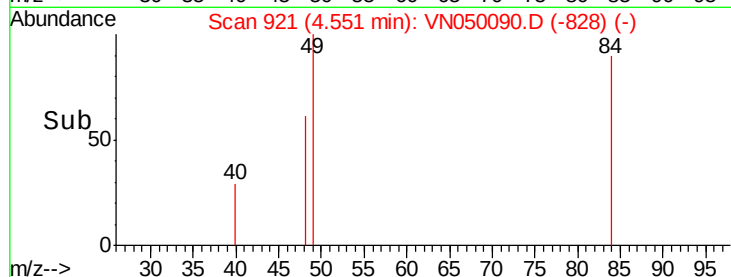
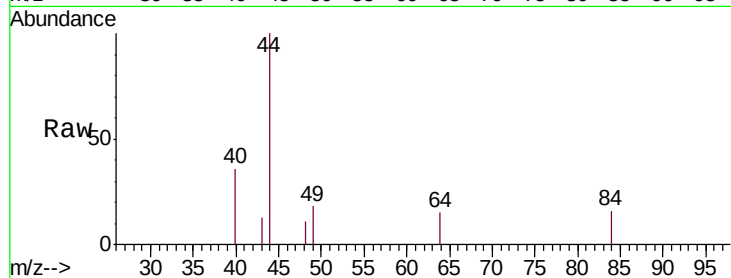




#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

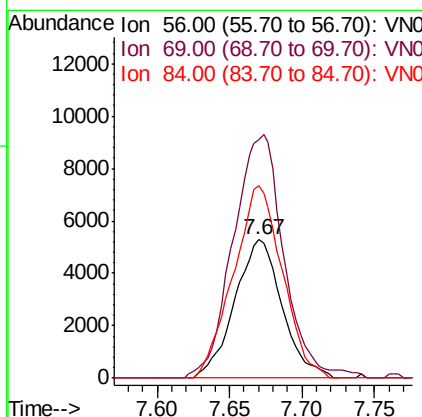
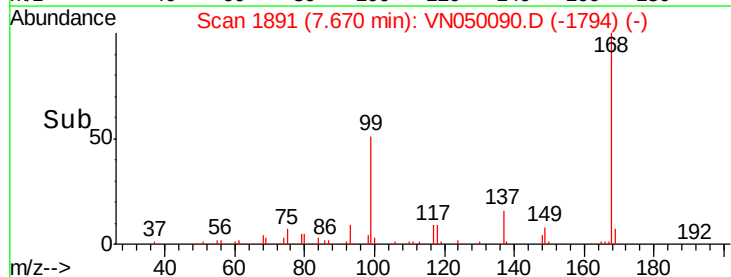
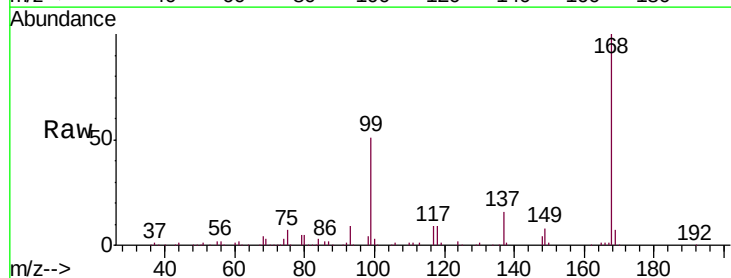
Instrument :
MSVOA_N
ClientSampled :
MW-12

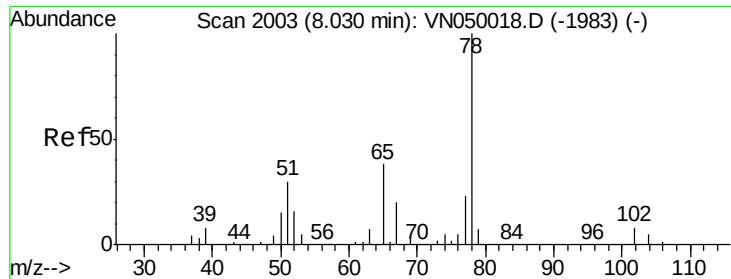
Tot Ion: 84 Resp: 134
Ion Ratio Lower Upper
84 100
49 20.9 94.8 142.2#
51 0.0 28.3 42.5#
86 0.0 51.0 76.6#



#31
Cyclohexane
Concen: 0.89 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

Tgt Ion: 56 Resp: 12003
Ion Ratio Lower Upper
56 100
69 169.7 26.2 39.4#
84 139.3 67.4 101.0#

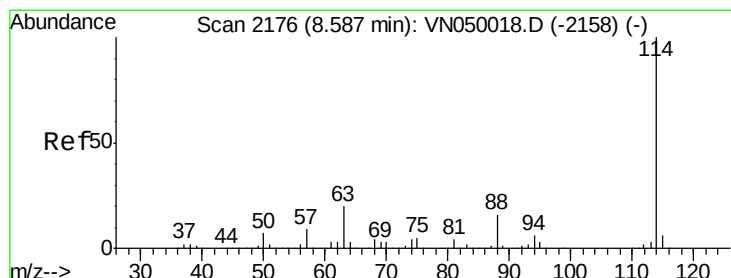
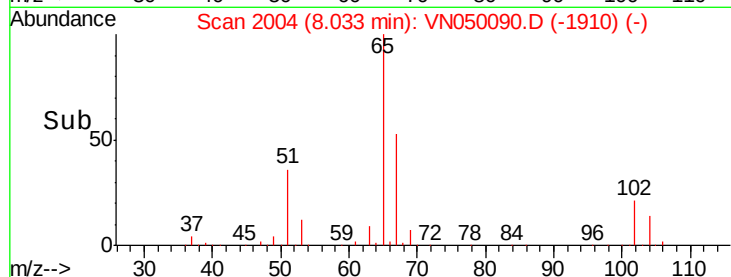
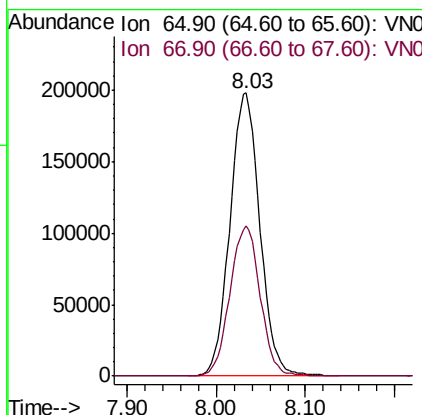
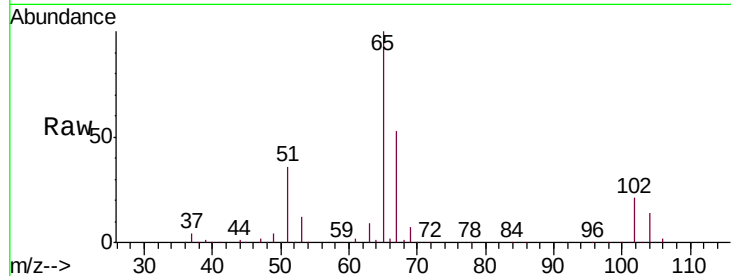




#33
 1,2-Dichloroethane-d4
 Concen: 50.58 ug/l
 RT: 8.03 min Scan# 2004
 Delta R.T. 0.00 min
 Lab File: VN050090.D
 Acq: 26 Jul 2018 18:31

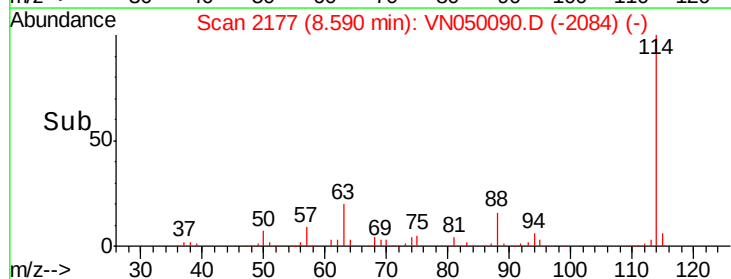
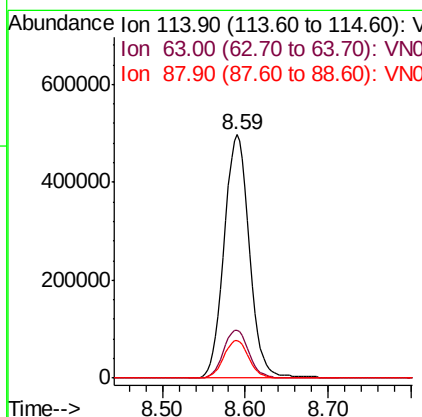
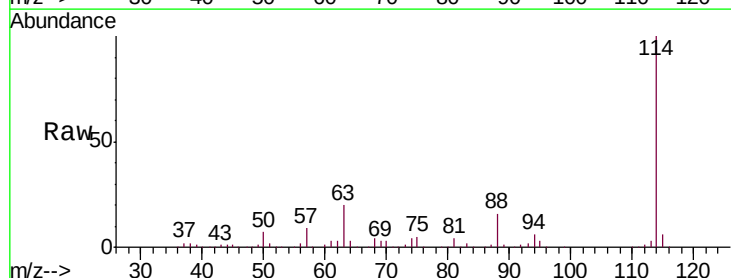
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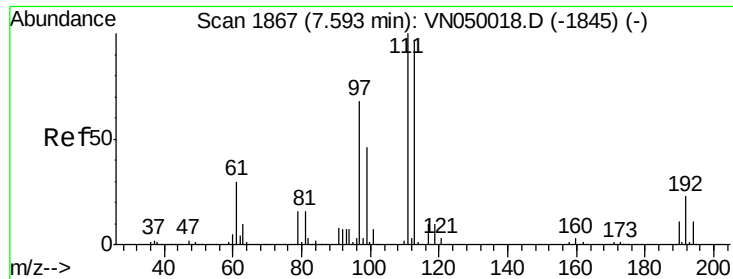
Tot Ion: 65 Resp: 461669
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050090.D
 Acq: 26 Jul 2018 18:31

Tgt Ion: 114 Resp: 1054081
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.6 0.0 31.2

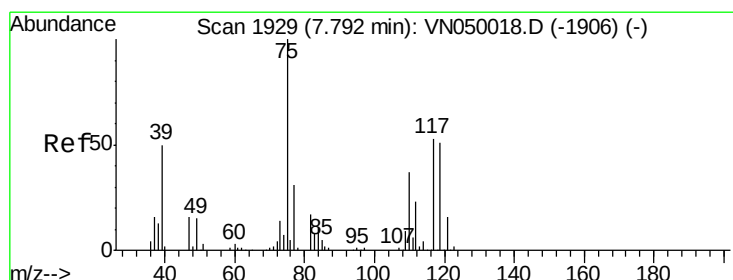
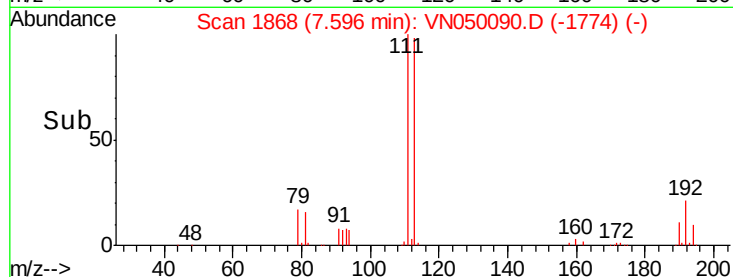
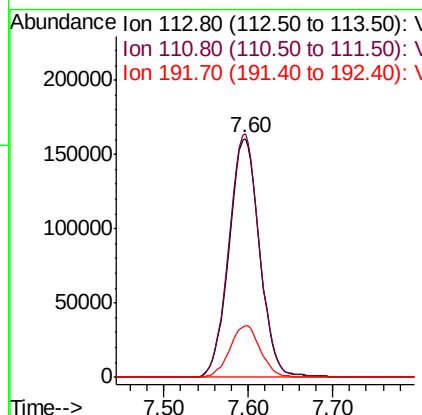
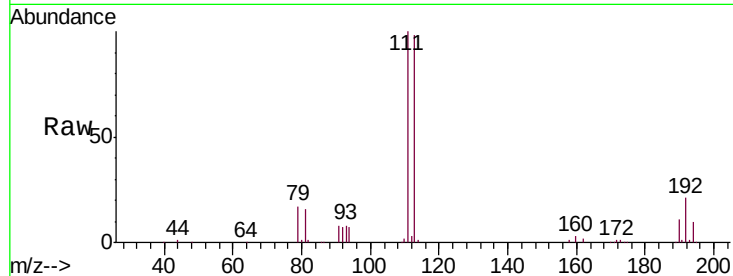




#35
 Dibromofluoromethane
 Concen: 47.12 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050090.D
 Acq: 26 Jul 2018 18:31

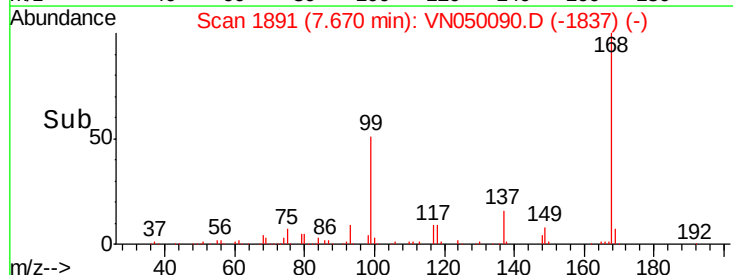
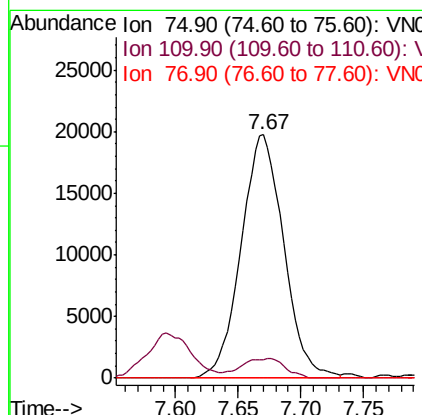
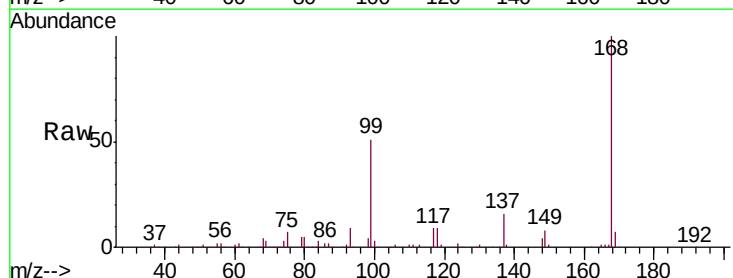
Instrument :
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 ClientSampleId :
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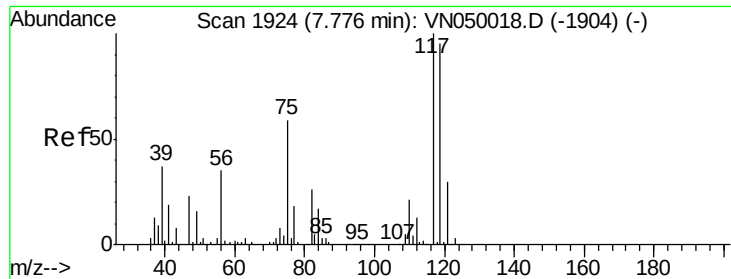
Tot Ion:113 Resp: 405567
 Ion Ratio Lower Upper
 113 100
 111 101.9 80.7 121.1
 192 21.7 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.94 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050090.D
 Acq: 26 Jul 2018 18:31

Tgt Ion: 75 Resp: 46735
 Ion Ratio Lower Upper
 75 100
 110 2.1 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

MW-12

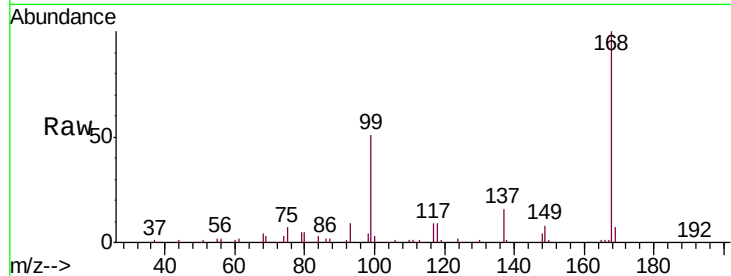
Tot Ion:117 Resp: 59651

Ion Ratio Lower Upper

117 100

119 6.9 77.4 116.0#

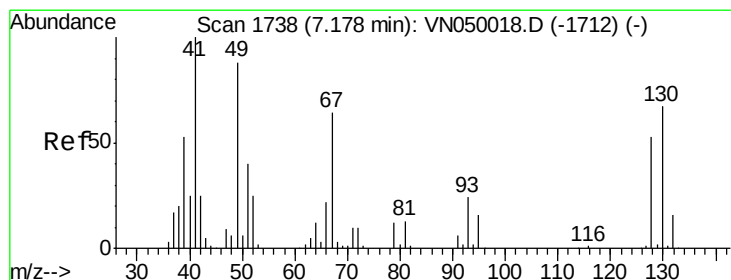
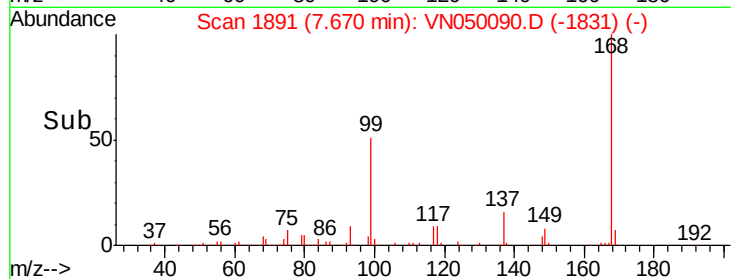
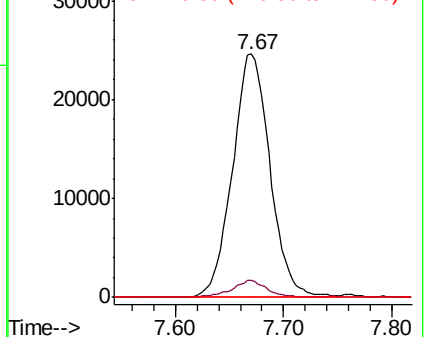
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.78 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.05 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Tgt Ion: 41 Resp: 154

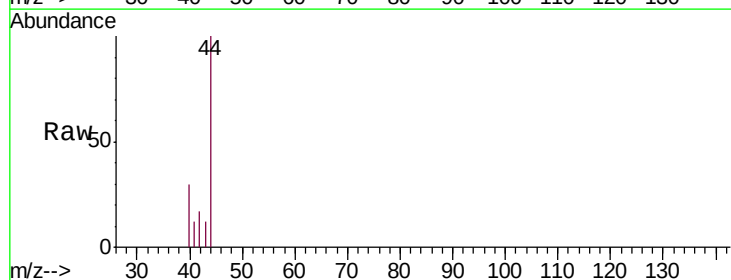
Ion Ratio Lower Upper

41 100

39 46.1 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

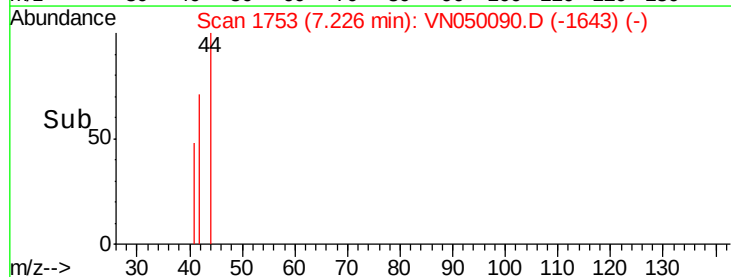
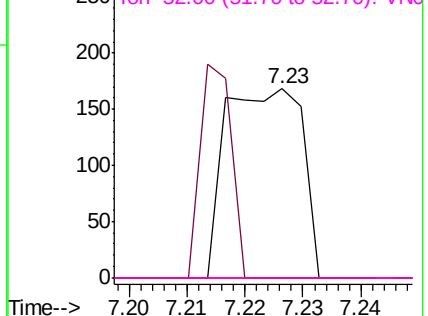


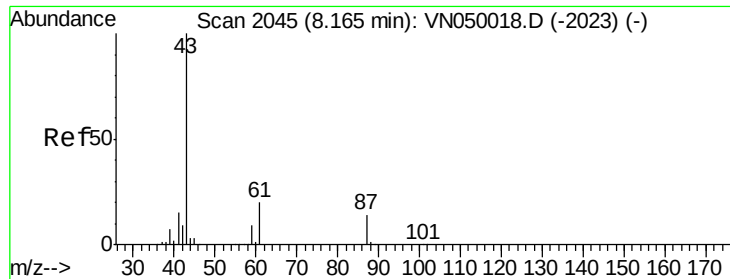
Abundance Ion 41.00 (40.70 to 41.70): VNO

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: 7.98 ug/l

RT: 8.24 min Scan# 2069

Delta R.T. 0.07 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampleId :

MW-12

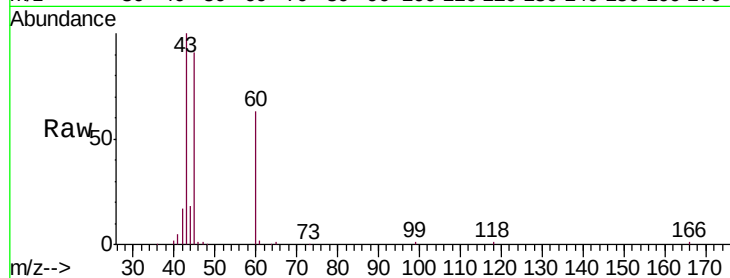
Tot Ion: 43 Resp: 139414

Ion Ratio Lower Upper

43 100

61 0.5 15.8 23.6#

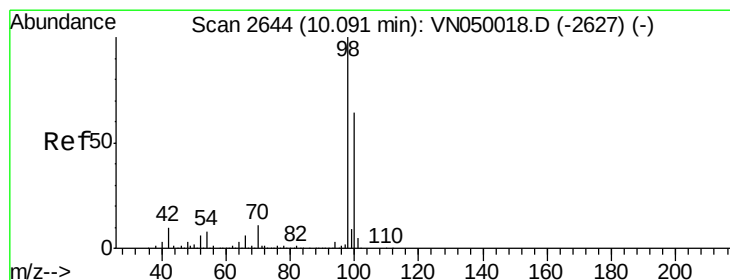
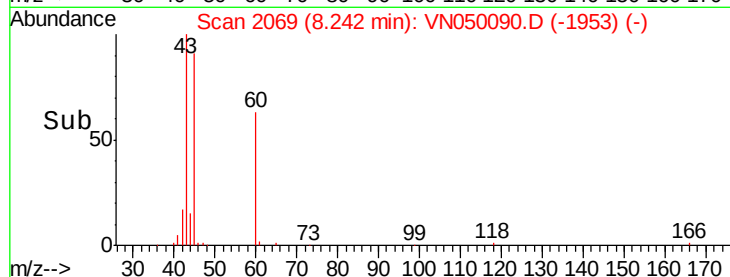
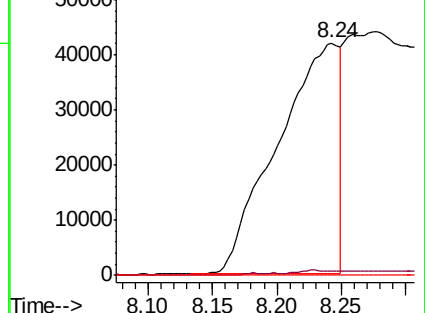
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-2023) (-)

Ion 61.00 (60.70 to 61.70): VN050018.D (-2023) (-)

Ion 87.00 (86.70 to 87.70): VN050018.D (-2023) (-)



#50

Toluene-d8

Concen: 45.13 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050090.D

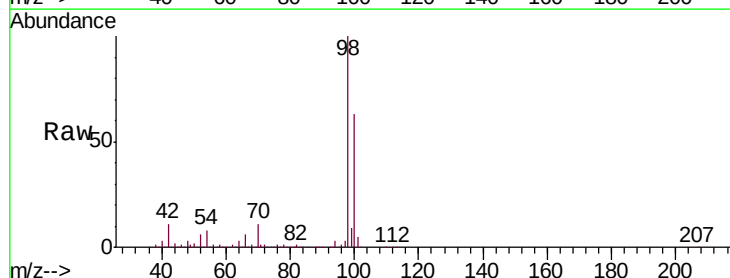
Acq: 26 Jul 2018 18:31

Tgt Ion: 98 Resp: 1428056

Ion Ratio Lower Upper

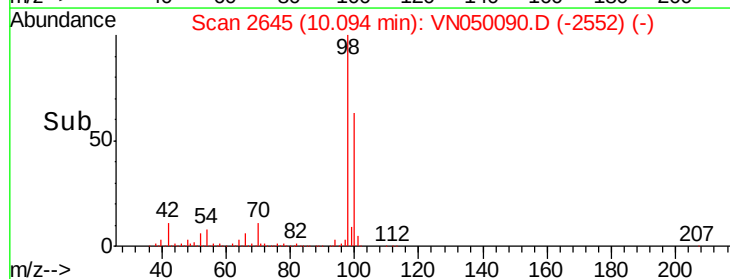
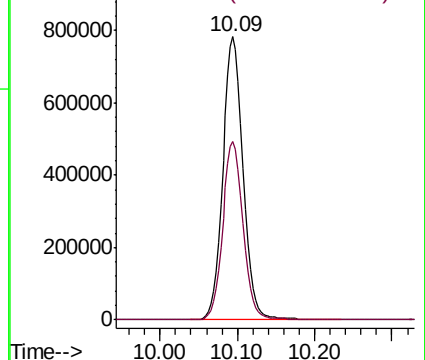
98 100

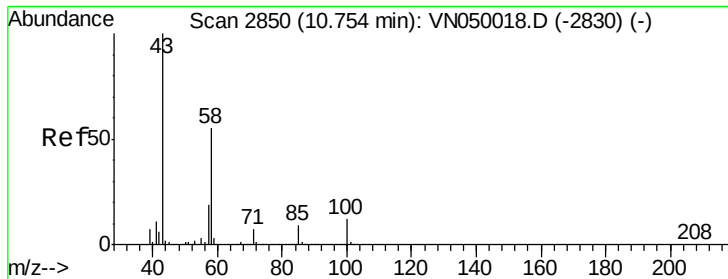
100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN050018.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN050018.D (-2627) (-)

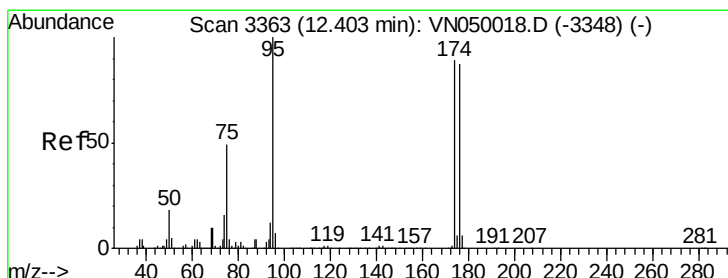
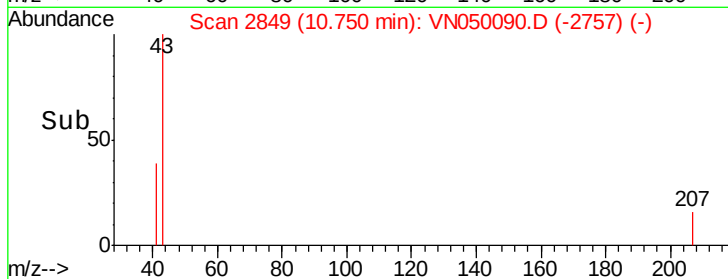
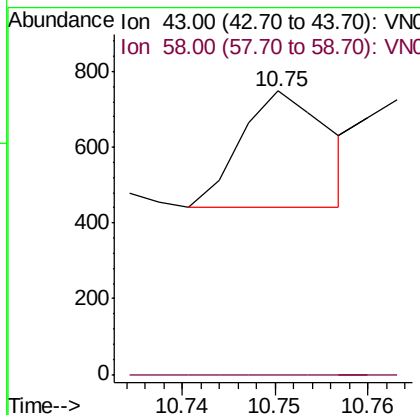
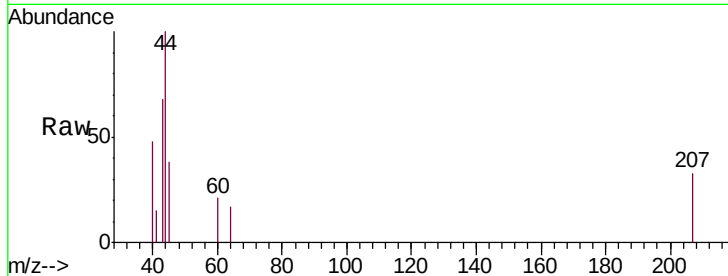




#59
2-Hexanone
Concen: 5.21 ug/l
RT: 10.75 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

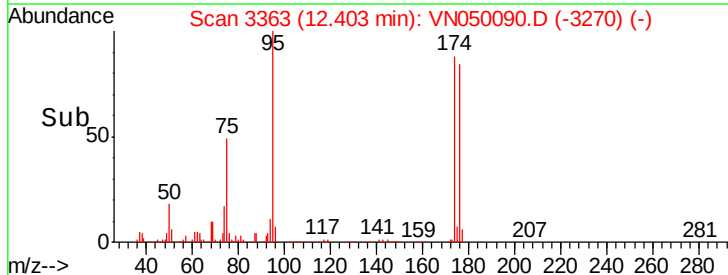
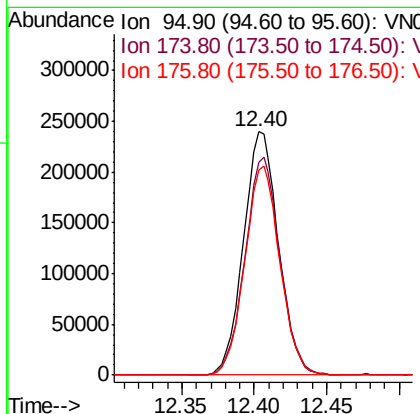
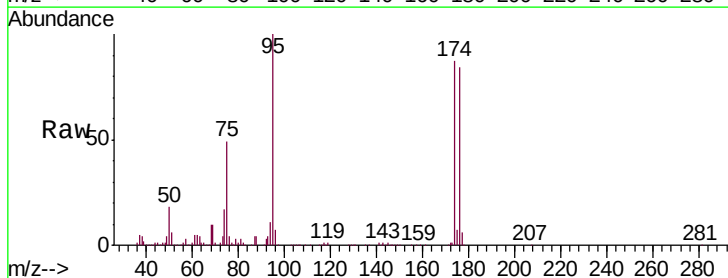
Instrument :
MSVOA_N
ClientSampleId :
MW-12

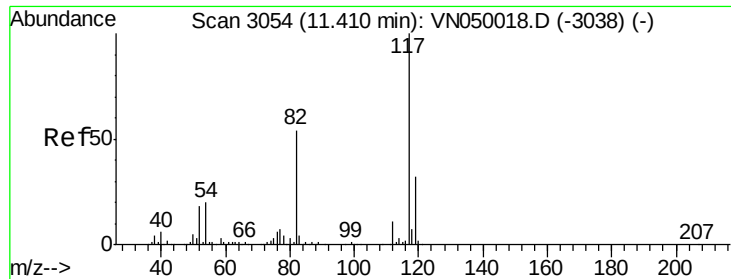
Tot Ion: 43 Resp: 199
Ion Ratio Lower Upper
43 100
58 0.0 27.6 82.7#



#62
4-Bromofluorobenzene
Concen: 38.57 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

Tgt Ion: 95 Resp: 401822
Ion Ratio Lower Upper
95 100
174 89.9 0.0 178.2
176 86.0 0.0 173.4

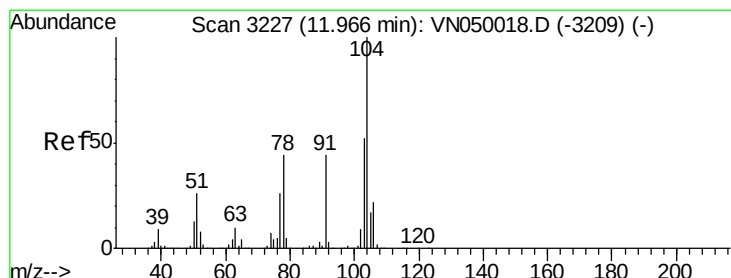
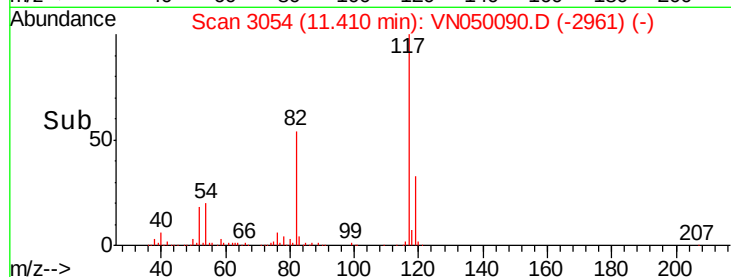
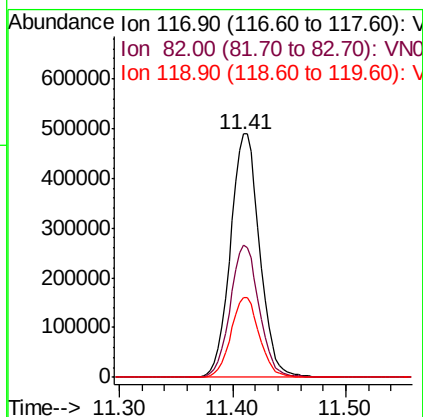
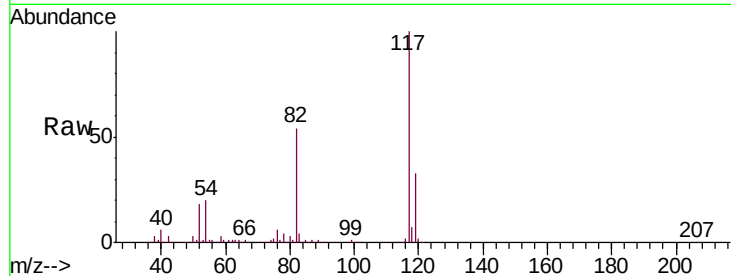




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

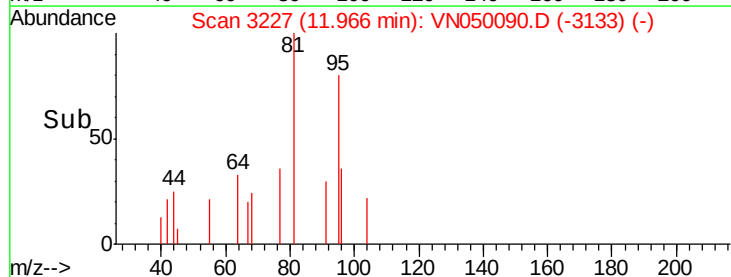
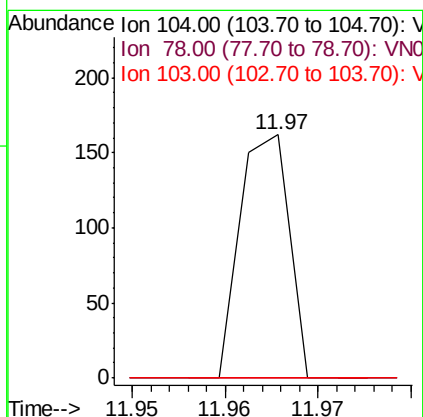
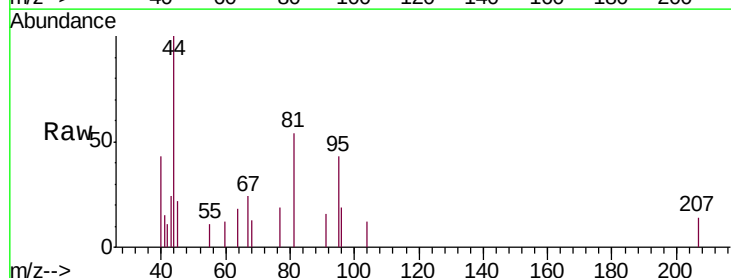
Instrument :
MSVOA_N
ClientSampled :
MW-12

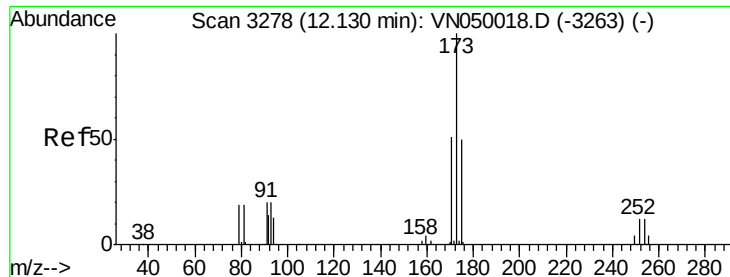
Tot Ion:117 Resp: 877412
Ion Ratio Lower Upper
117 100
82 54.1 43.7 65.5
119 32.8 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

Tgt Ion:104 Resp: 60
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 0.0 45.0 67.6#





#71

Bromoform

Concen: 0.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampleId :

MW-12

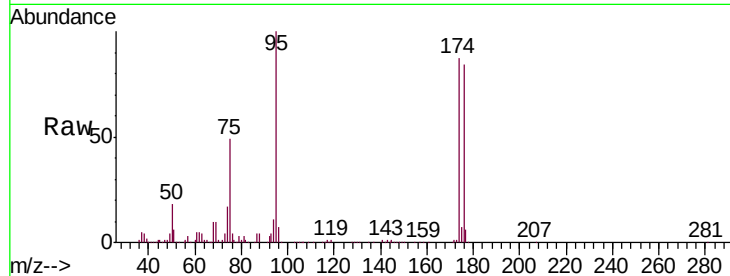
Tot Ion:173 Resp: 3294

Ion Ratio Lower Upper

173 100

175 710.3 24.1 72.2#

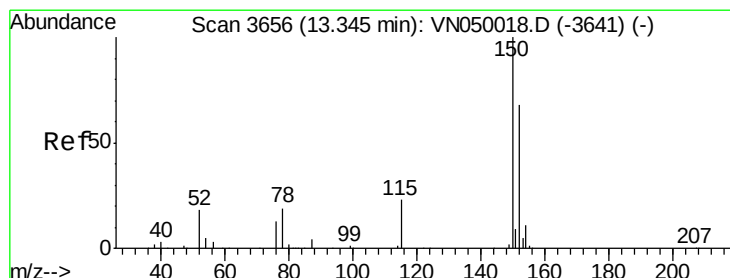
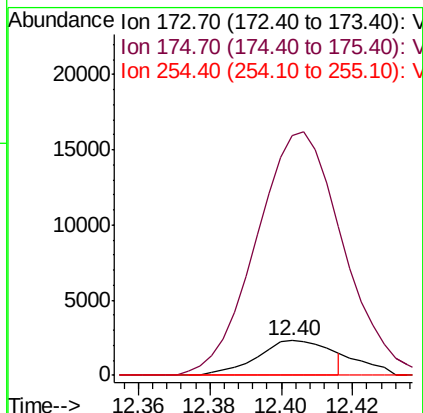
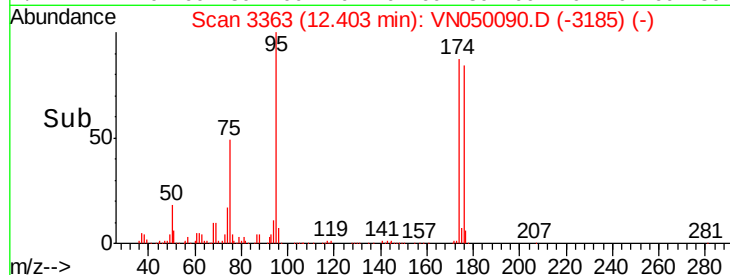
254 0.0 0.2 0.2#



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# 3657

Delta R.T. 0.00 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

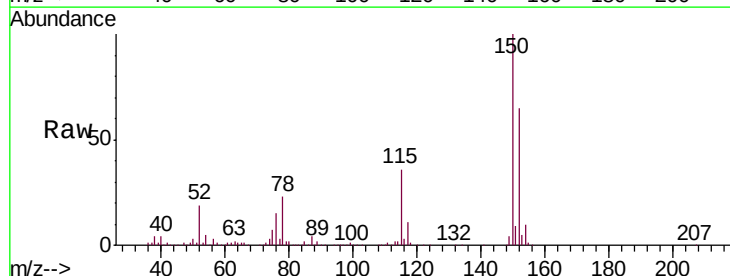
Tgt Ion:152 Resp: 326706

Ion Ratio Lower Upper

152 100

115 56.8 27.8 83.3

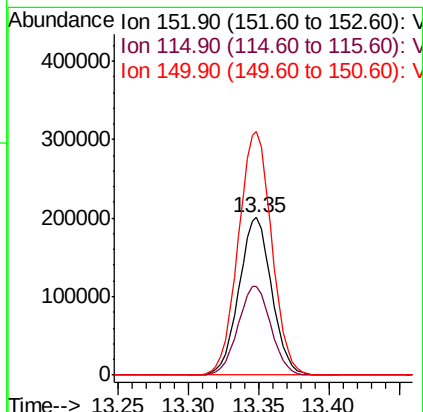
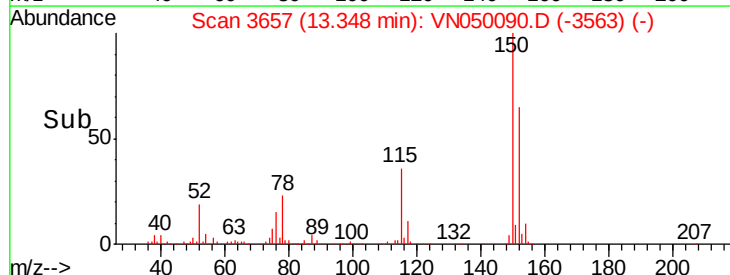
150 157.3 0.0 348.6

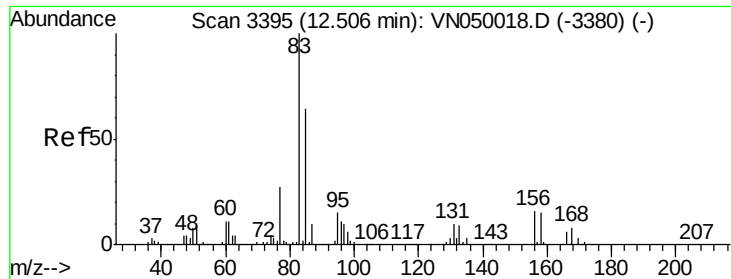


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.53 min Scan# 3401

Delta R.T. 0.02 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampleId :

MW-12

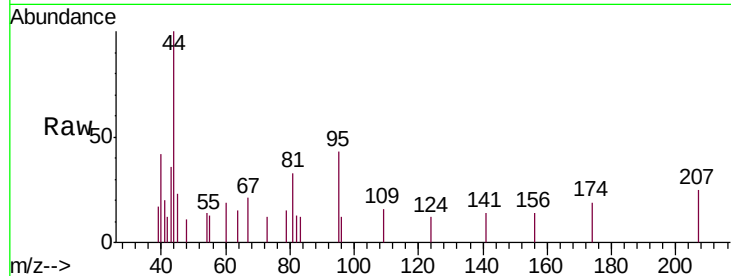
Tot Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

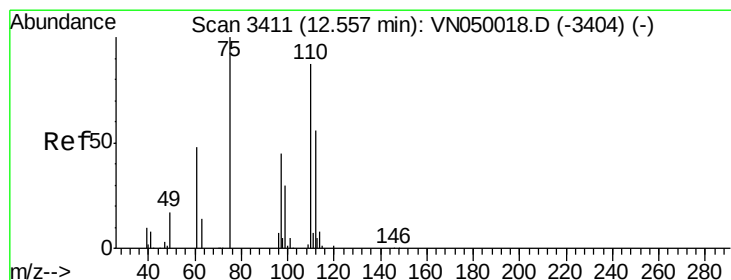
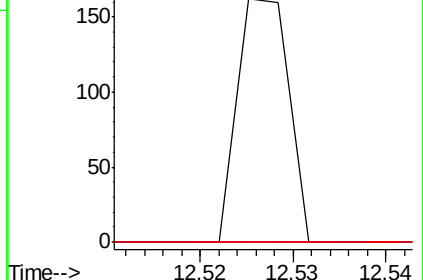
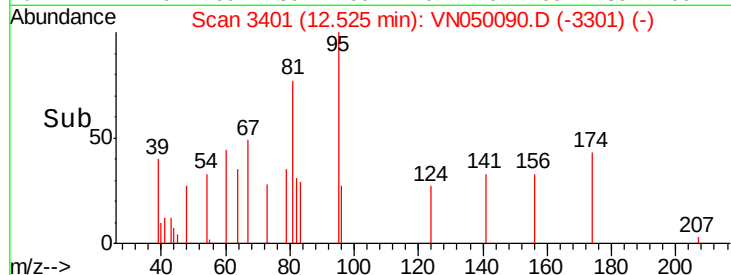
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 32.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050090.D

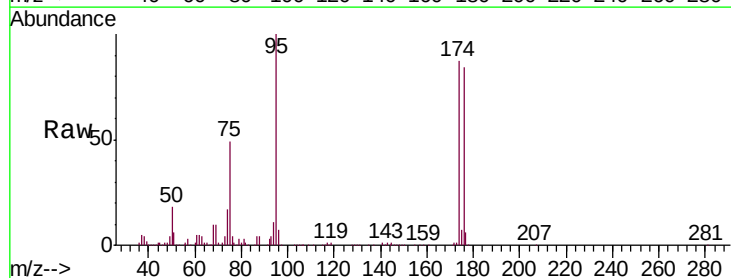
Acq: 26 Jul 2018 18:31

Tgt Ion: 75 Resp: 196664

Ion Ratio Lower Upper

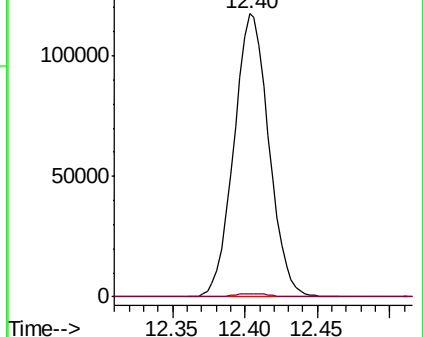
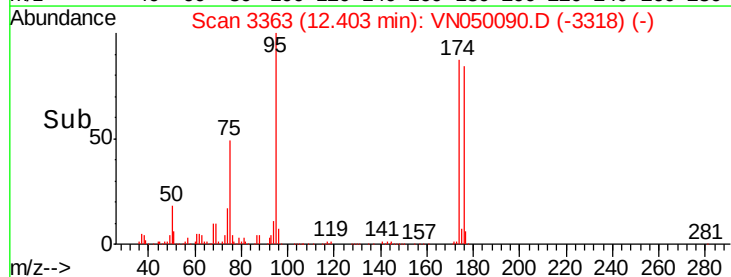
75 100

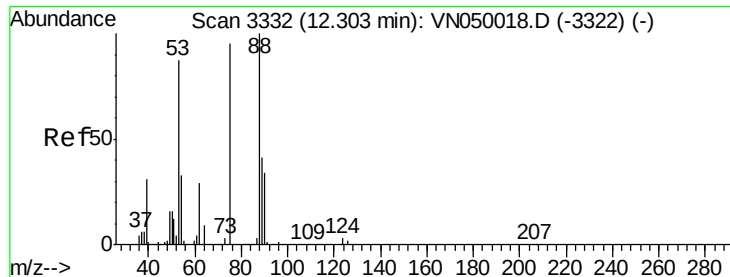
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

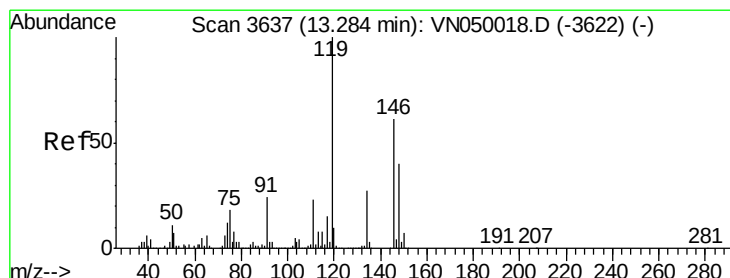
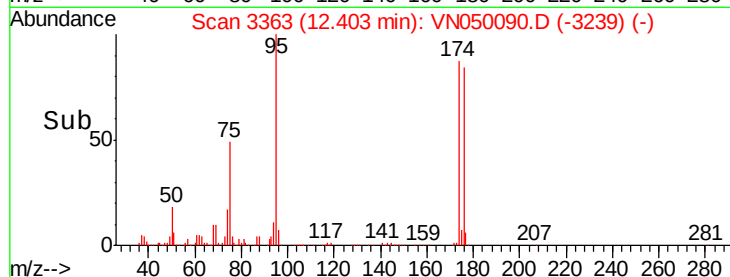
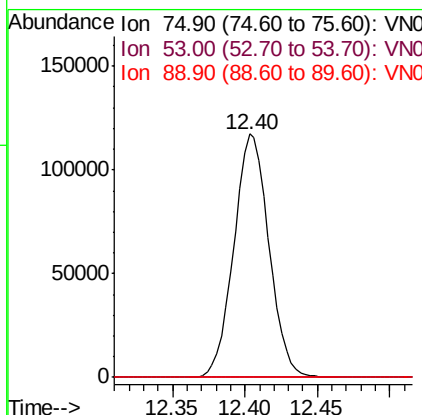
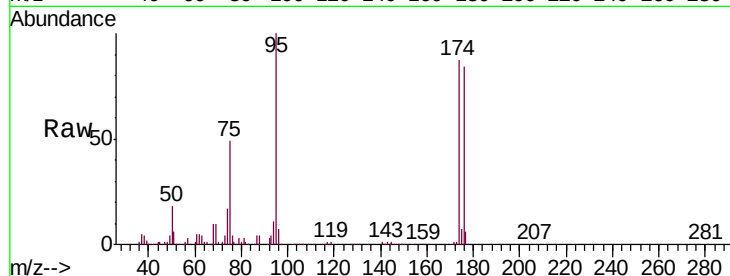




#81
trans-1,4-Dichloro-2-butene
Concen: 102.74 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

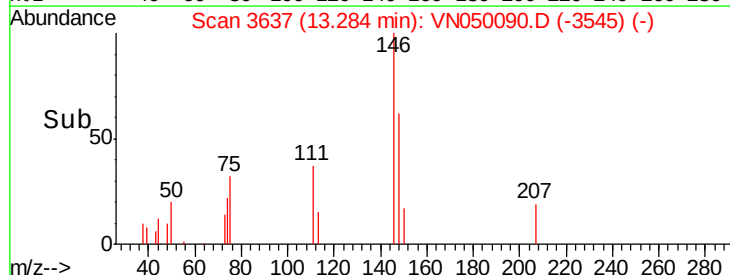
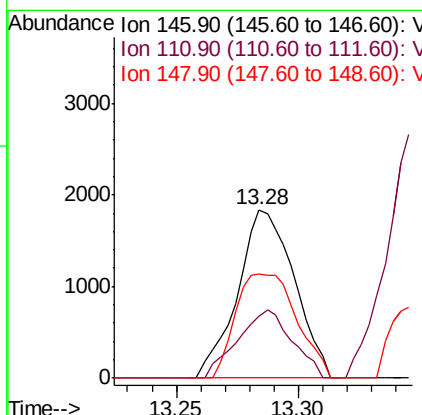
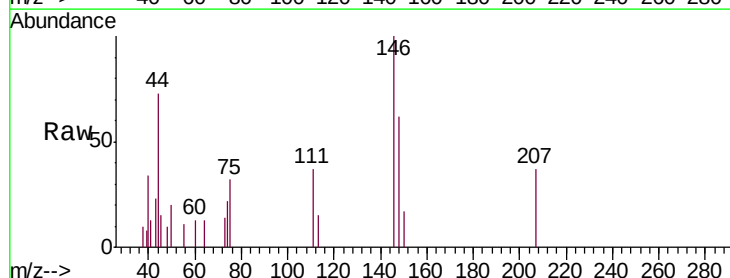
Instrument :
MSVOA_N
ClientSampled :
MW-12

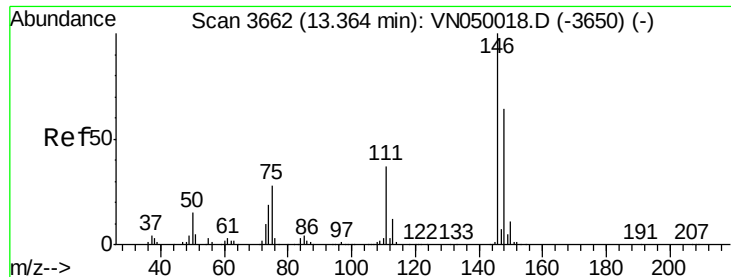
Tot Ion: 75 Resp: 196664
Ion Ratio Lower Upper
75 100
53 0.3 73.5 110.3#
89 0.0 36.0 54.0#



#87
1,3-Dichlorobenzene
Concen: 0.25 ug/l
RT: 13.28 min Scan# 3637
Delta R.T. -0.00 min
Lab File: VN050090.D
Acq: 26 Jul 2018 18:31

Tgt Ion: 146 Resp: 2947
Ion Ratio Lower Upper
146 100
111 39.0 18.8 56.4
148 66.7 31.9 95.9





#88

1,4-Dichlorobenzene

Concen: 0.25 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.08 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

MW-12

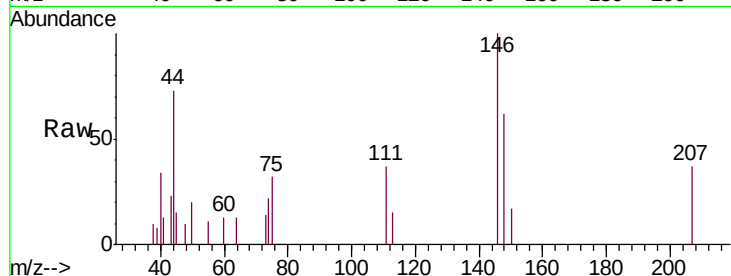
Tot Ion:146 Resp: 2947

Ion Ratio Lower Upper

146 100

111 39.0 18.3 54.9

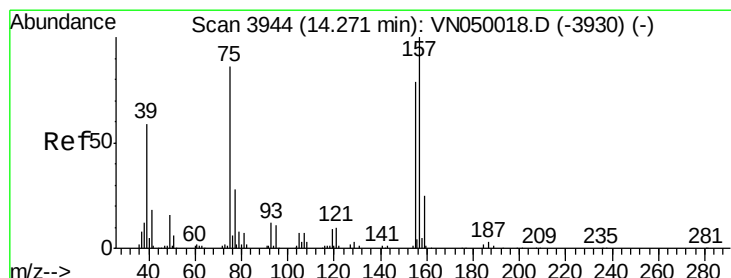
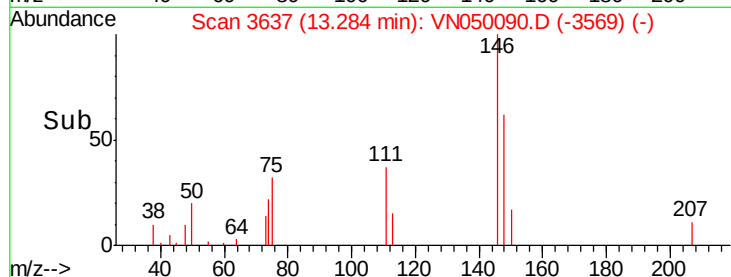
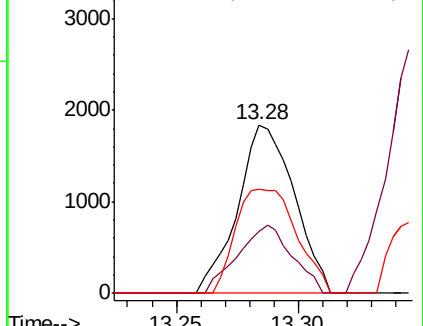
148 66.7 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.07 min Scan# 3880

Delta R.T. -0.21 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

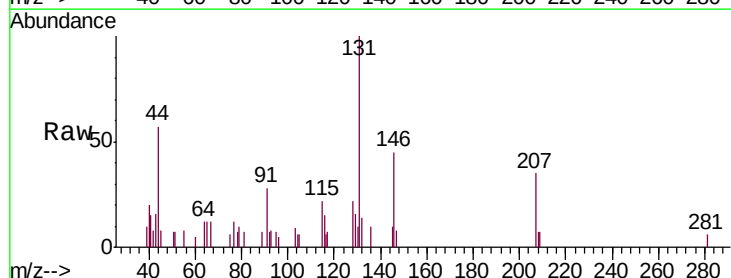
Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

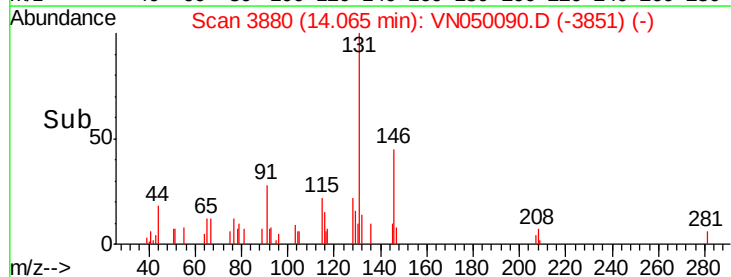
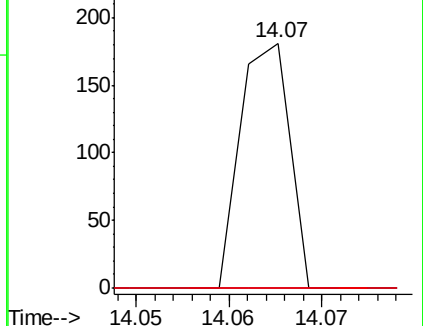
157 0.0 57.2 171.6#

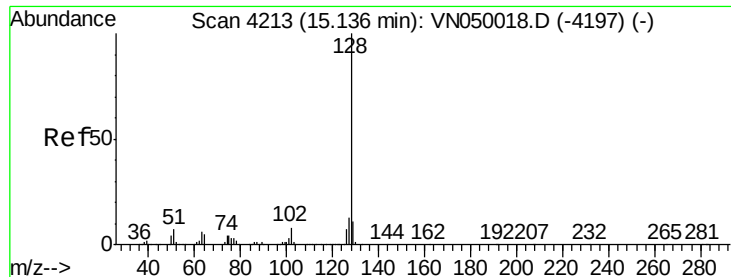


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 4.43 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VN050090.D

Acq: 26 Jul 2018 18:31

Instrument :

MSVOA_N

ClientSampleId :

MW-12

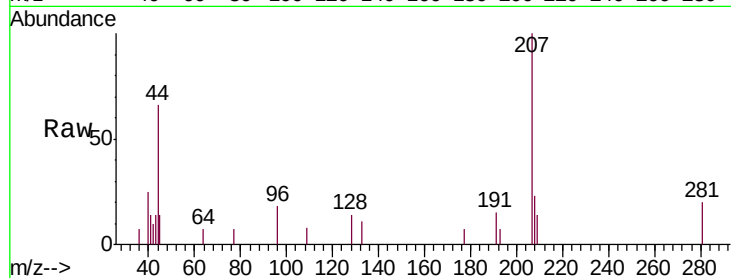
Tot Ion:128 Resp: 262

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

