

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050089.D
 Acq On : 26 Jul 2018 18:06
 Operator : MD\SY
 Sample : J4142-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1B

Quant Time: Jul 27 01:22:05 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	690905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1122093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	934929	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	361597	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	488523	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
35) Dibromofluoromethane	7.60	113	428817	46.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.62%	
50) Toluene-d8	10.09	98	1516655	45.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.06%	
62) 4-Bromofluorobenzene	12.40	95	430105	38.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.56%	

Target Compounds

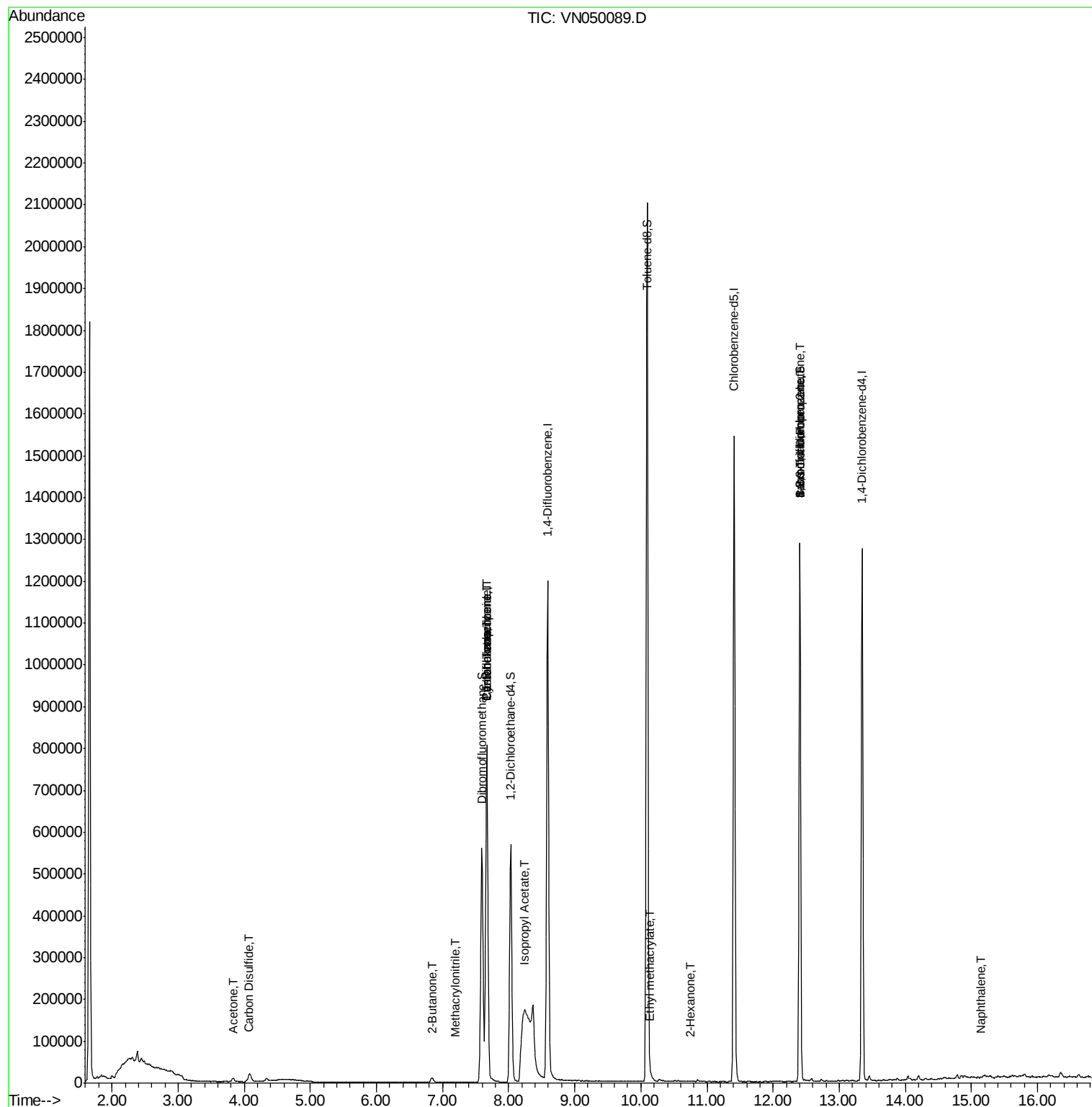
						Qvalue
5) Bromomethane	2.56	94	676	Below Cal		98
16) Acetone	3.83	43	15685	2.61 ug/l		98
17) Carbon Disulfide	4.05	76	8296	0.34 ug/l		99
18) Methyl Acetate	4.34	43	12435	Below Cal	#	71
20) Methylene Chloride	4.56	84	520	Below Cal	#	58
25) 2-Butanone	6.84	43	1058	0.29 ug/l	#	86
31) Cyclohexane	7.67	56	12990	0.91 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	49987	3.95 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	62236	4.64 ug/l	#	16
41) Methacrylonitrile	7.20	41	30	2.75 ug/l	#	10
43) Isopropyl Acetate	8.25	43	306705	17.73 ug/l	#	61
56) Ethyl methacrylate	10.15	69	95	2.04 ug/l	#	26
59) 2-Hexanone	10.75	43	432	5.24 ug/l	#	24
71) Bromoform	12.41	173	3836	0.58 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	306	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.41	75	210919	31.39 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.41	75	210919	99.55 ug/l	#	13
92) 1,2-Dibromo-3-Chloropropan	14.16	75	66	Below Cal	#	1
95) Naphthalene	15.13	128	366	4.44 ug/l	#	72

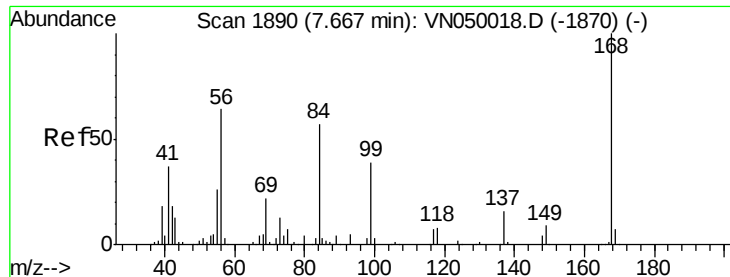
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampled :

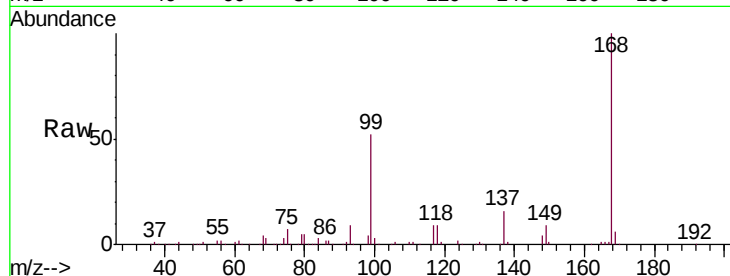
MW-1B

Tot Ion:168 Resp: 690905

Ion Ratio Lower Upper

168 100

99 52.4 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

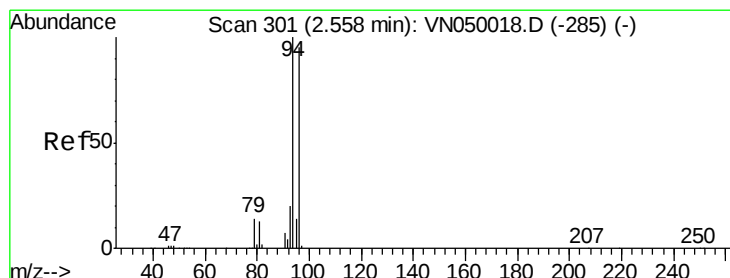
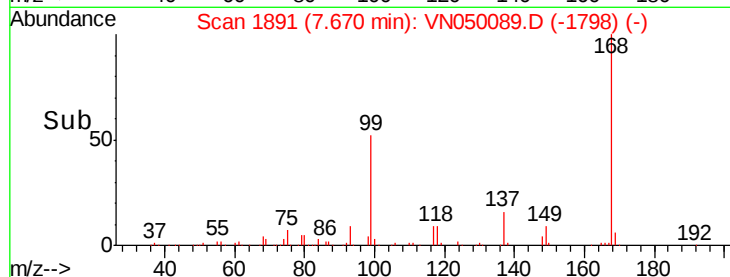
200000

100000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050089.D

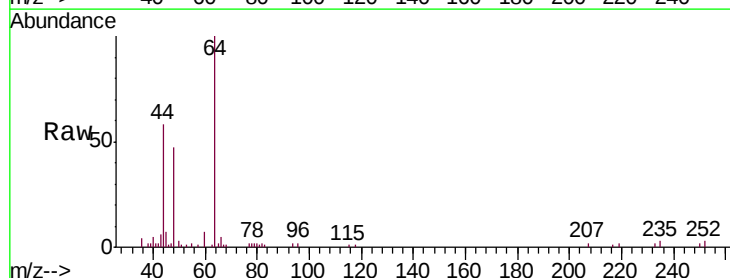
Acq: 26 Jul 2018 18:06

Tgt Ion: 94 Resp: 676

Ion Ratio Lower Upper

94 100

96 95.2 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

300

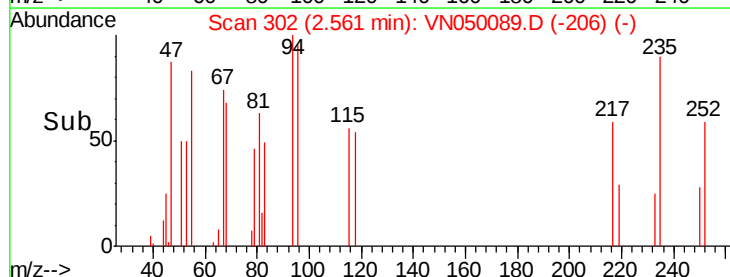
200

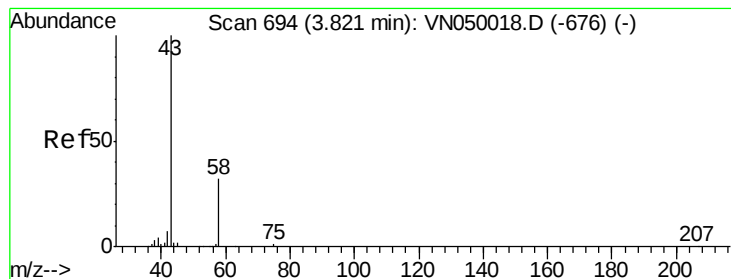
100

0

Time-->

2.50 2.55 2.60





#16

Acetone

Concen: 2.61 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampled :

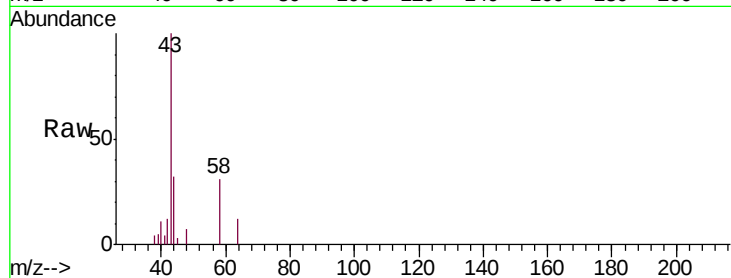
MW-1B

Tot Ion: 43 Resp: 15685

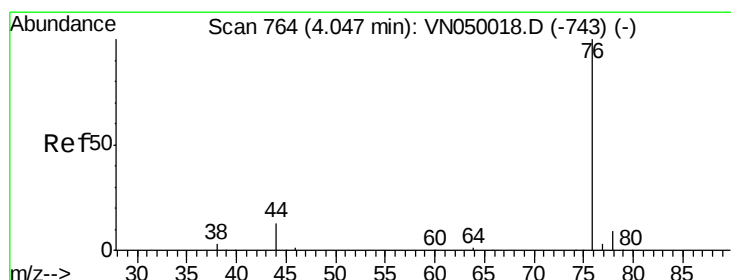
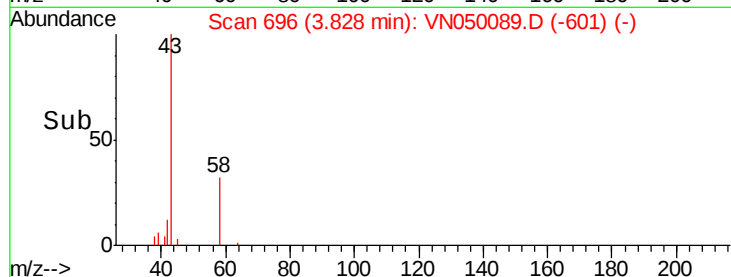
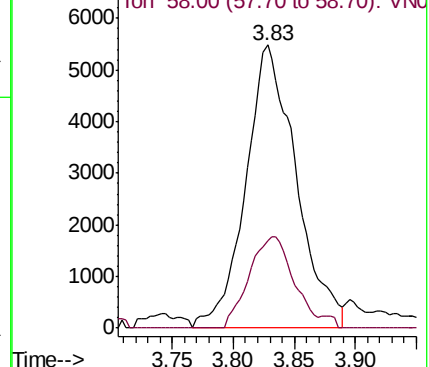
Ion Ratio Lower Upper

43 100

58 30.9 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-676) (-)



#17

Carbon Disulfide

Concen: 0.34 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050089.D

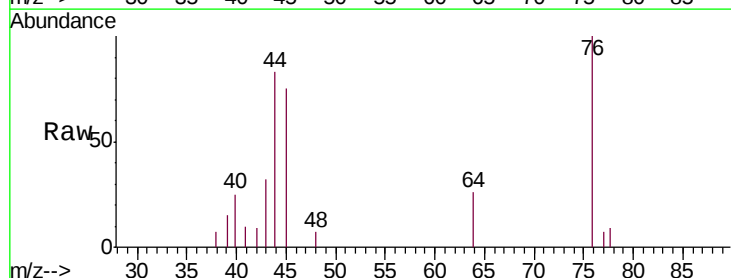
Acq: 26 Jul 2018 18:06

Tgt Ion: 76 Resp: 8296

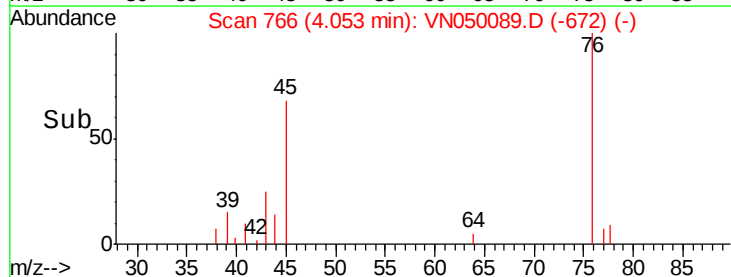
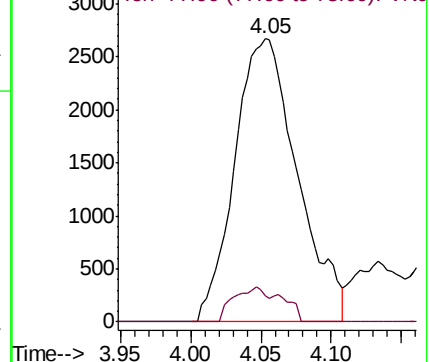
Ion Ratio Lower Upper

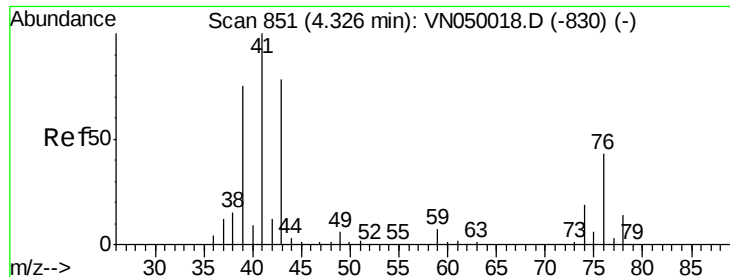
76 100

78 9.3 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN050018.D (-743) (-)

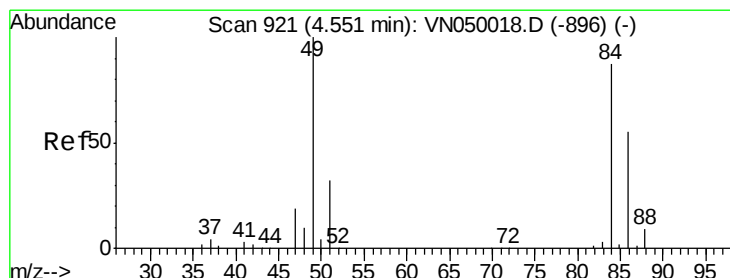
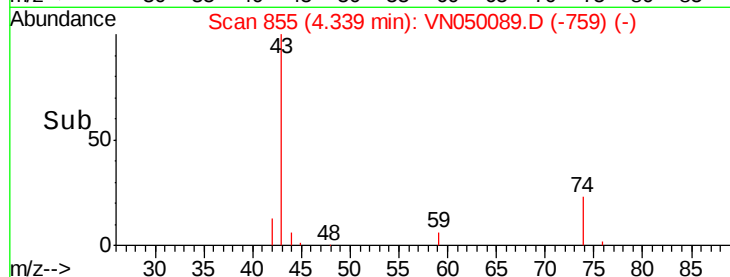
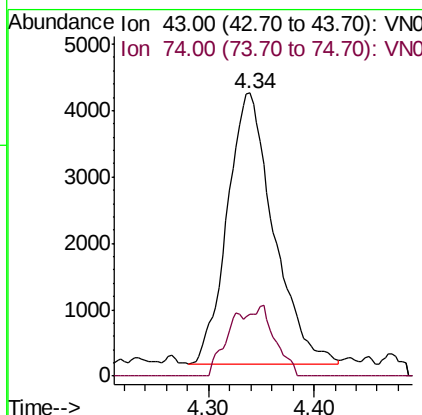
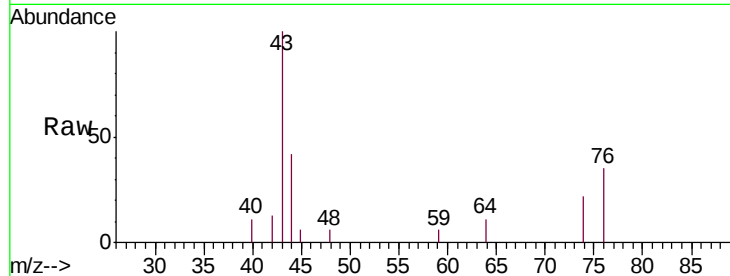




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050089.D
Acq: 26 Jul 2018 18:06

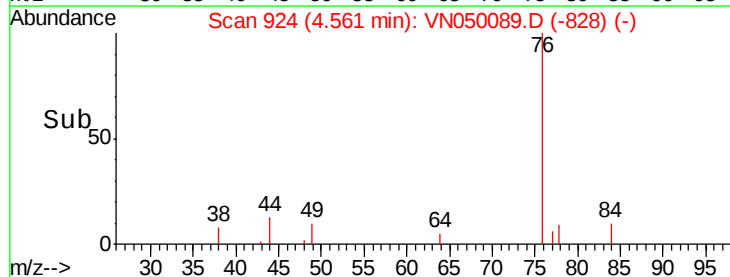
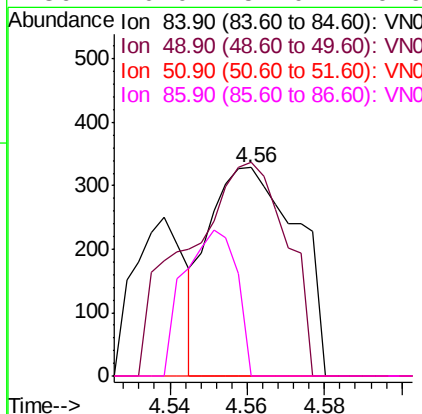
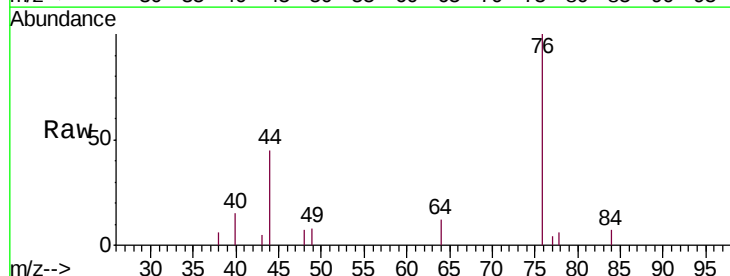
Instrument :
MSVOA_N
ClientSampled :
MW-1B

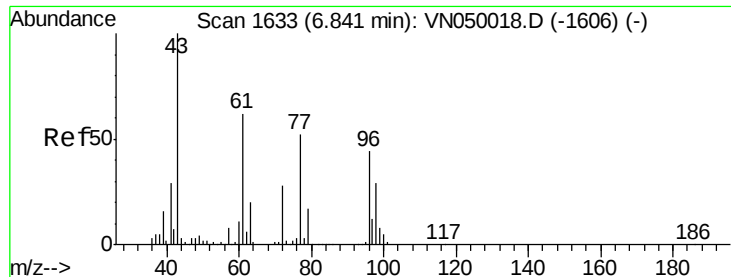
Tot Ion: 43 Resp: 12435
Ion Ratio Lower Upper
43 100
74 9.6 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 924
Delta R.T. 0.01 min
Lab File: VN050089.D
Acq: 26 Jul 2018 18:06

Tgt Ion: 84 Resp: 520
Ion Ratio Lower Upper
84 100
49 102.4 94.8 142.2
51 0.0 28.3 42.5#
86 0.0 51.0 76.6#





#25

2-Butanone

Concen: 0.29 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampleId :

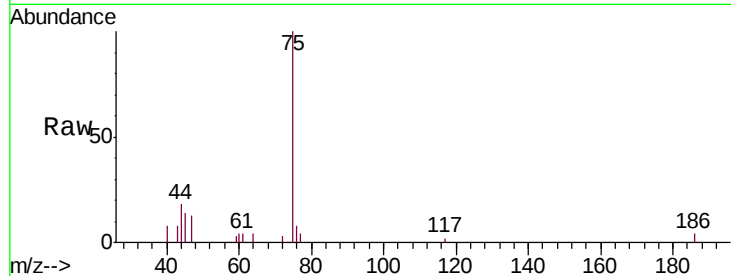
MW-1B

Tot Ion: 43 Resp: 1058

Ion Ratio Lower Upper

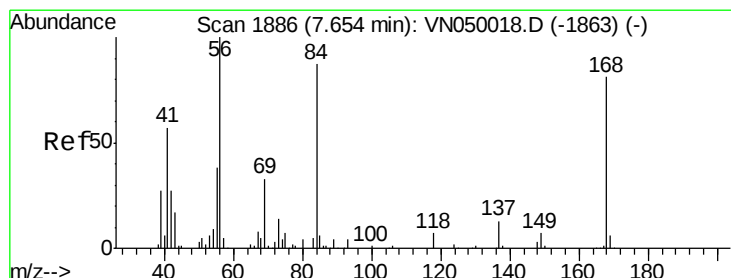
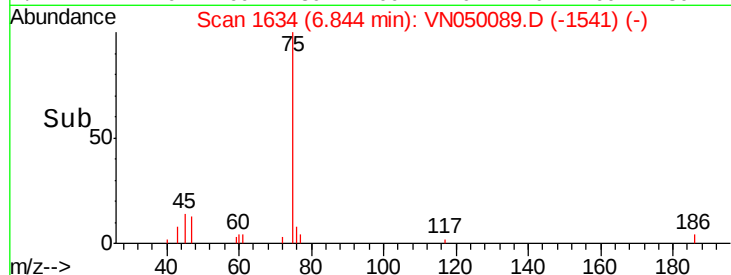
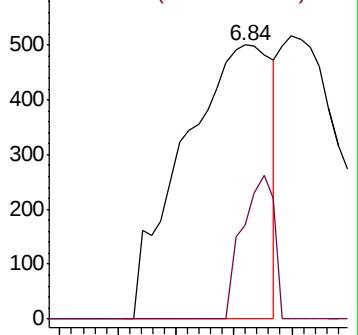
43 100

72 34.2 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

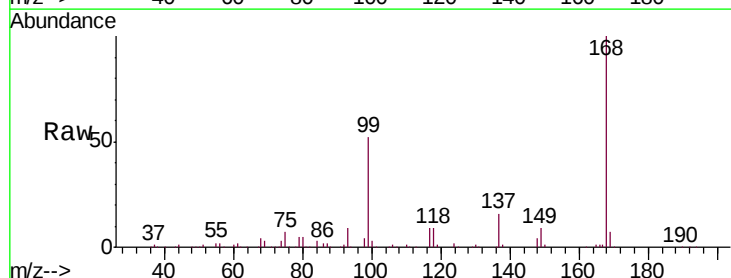
Tgt Ion: 56 Resp: 12990

Ion Ratio Lower Upper

56 100

69 177.3 26.2 39.4#

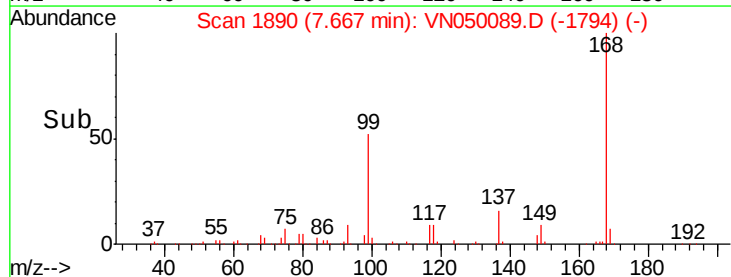
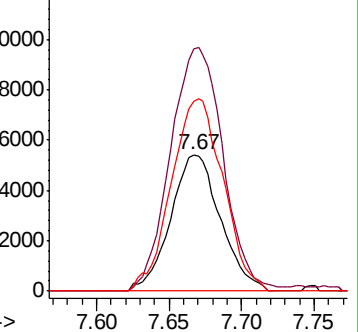
84 138.6 67.4 101.0#

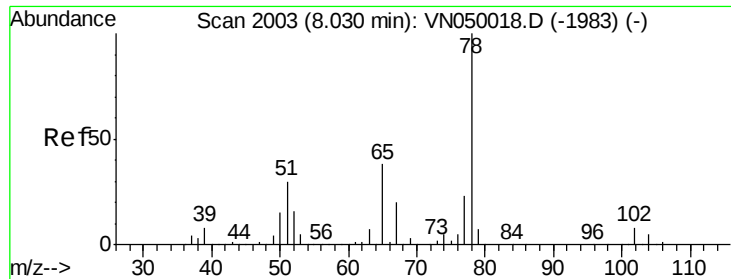


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 50.68 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampleId :

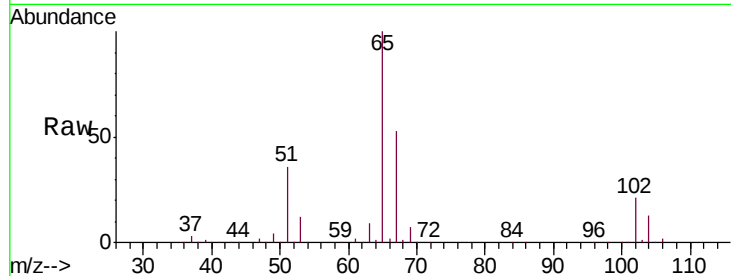
MW-1B

Tot Ion: 65 Resp: 488523

Ion Ratio Lower Upper

65 100

67 53.2 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

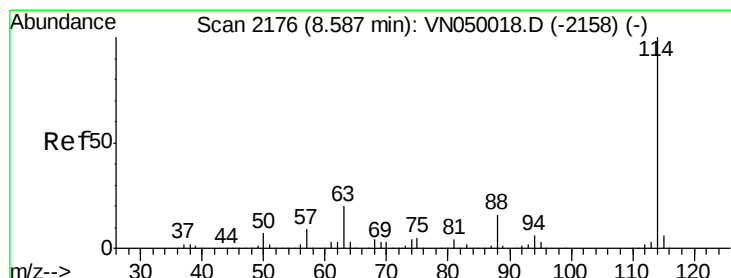
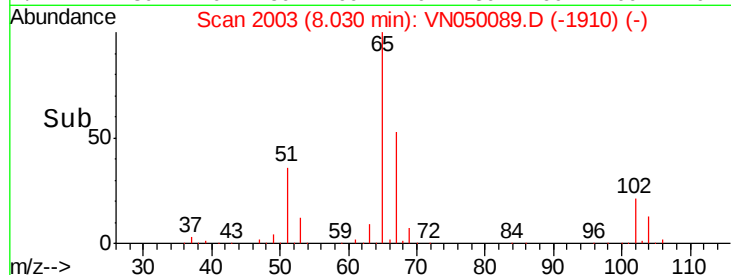
100000

50000

0

7.90 8.00 8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

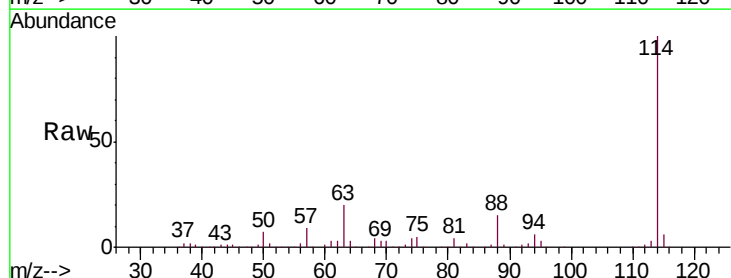
Tgt Ion: 114 Resp: 1122093

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

88 15.1 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

600000

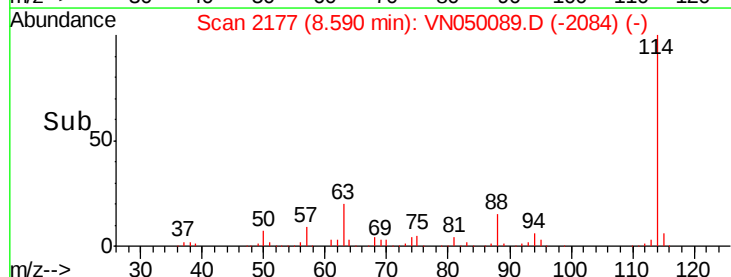
400000

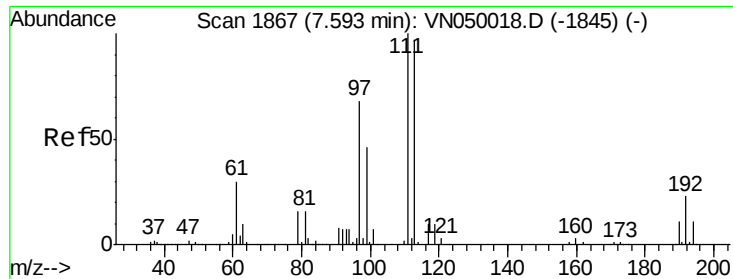
200000

0

8.50 8.60 8.70

Time-->





#35

Dibromofluoromethane

Concen: 46.81 ug/l

RT: 7.60 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampleId :

MW-1B

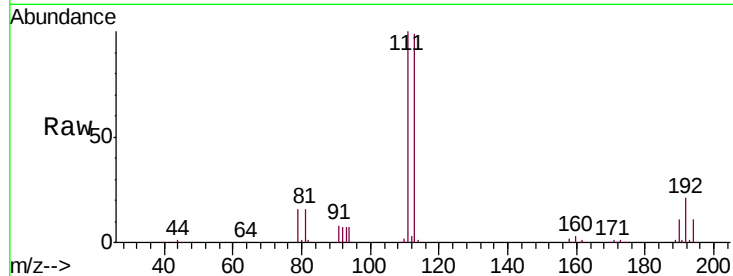
Tot Ion:113 Resp: 428817

Ion Ratio Lower Upper

113 100

111 100.9 80.7 121.1

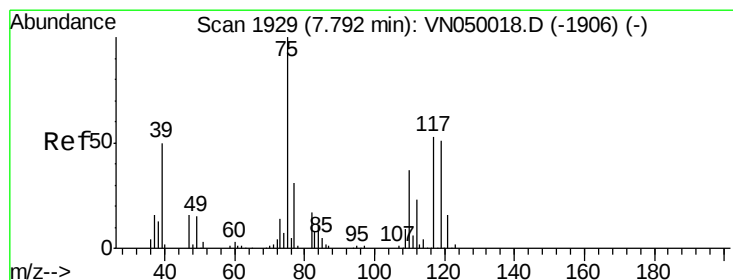
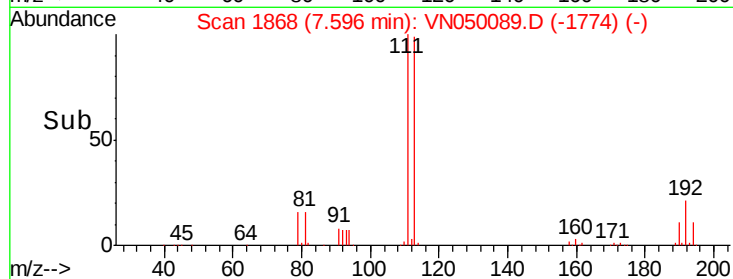
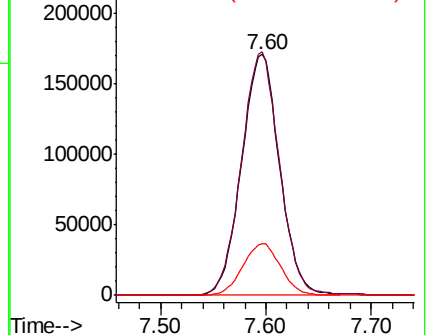
192 21.5 17.8 26.6



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: 3.95 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.13 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

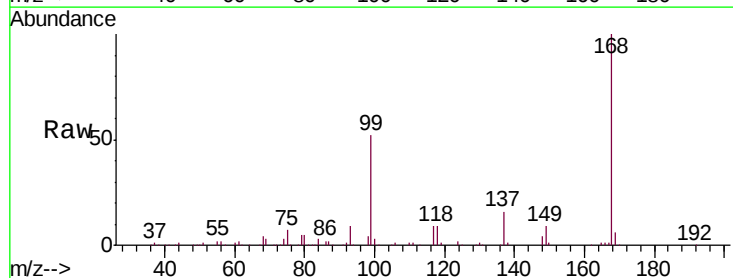
Tgt Ion: 75 Resp: 49987

Ion Ratio Lower Upper

75 100

110 8.5 18.4 55.2#

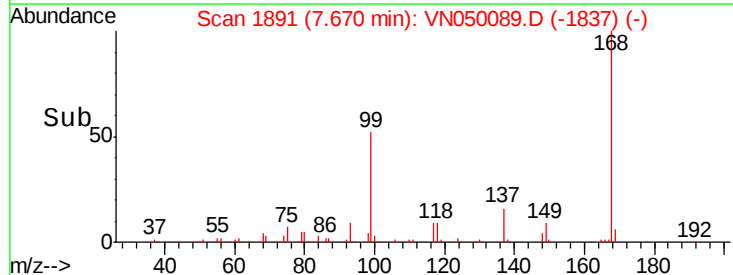
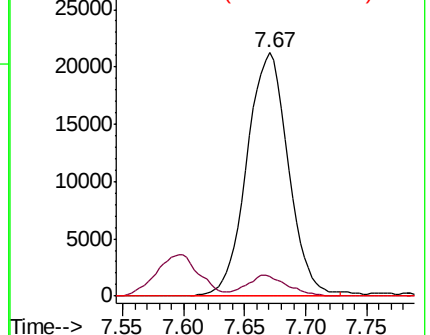
77 0.0 25.3 37.9#

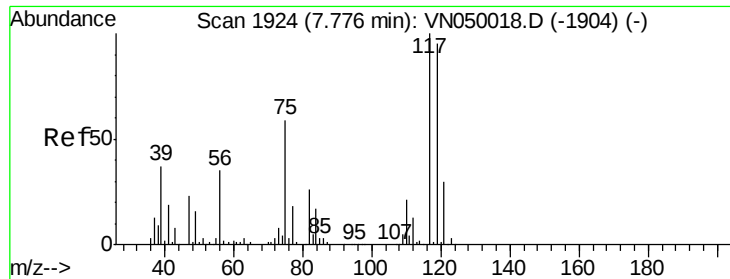


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.64 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampleId :

MW-1B

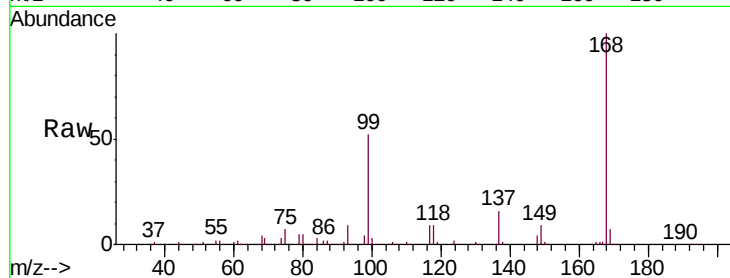
Tot Ion:117 Resp: 62236

Ion Ratio Lower Upper

117 100

119 5.8 77.4 116.0#

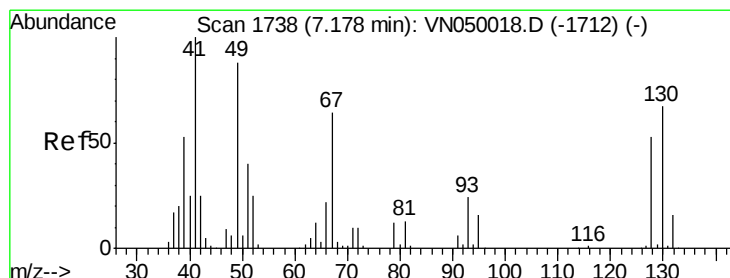
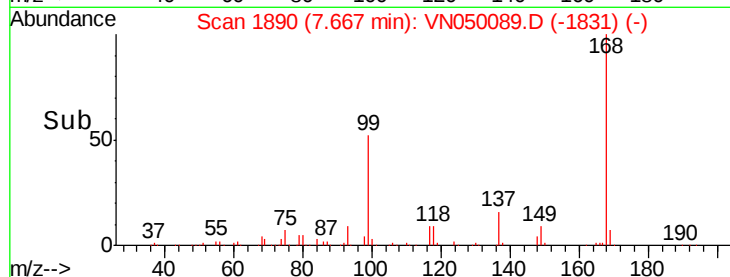
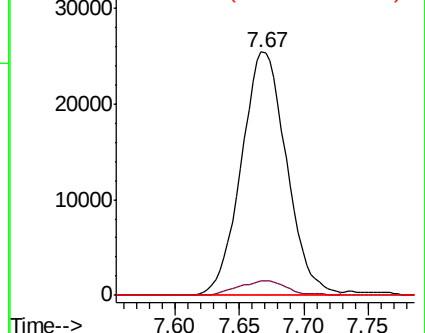
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.75 ug/l

RT: 7.20 min Scan# 1746

Delta R.T. 0.03 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Tgt Ion: 41 Resp: 30

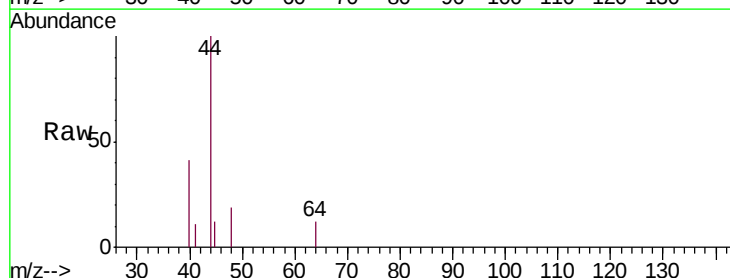
Ion Ratio Lower Upper

41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

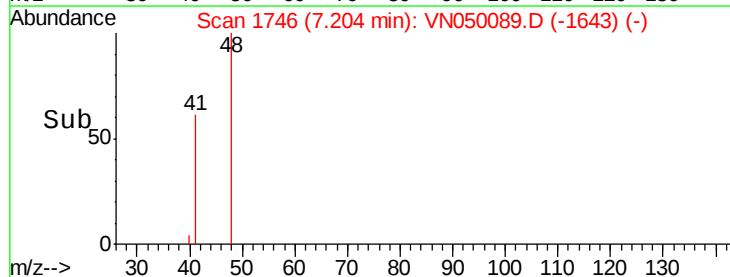
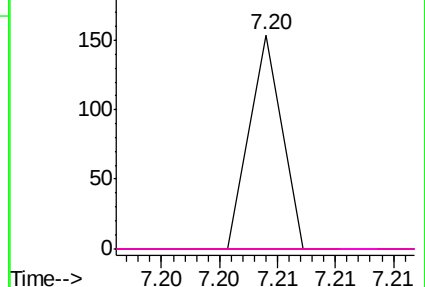


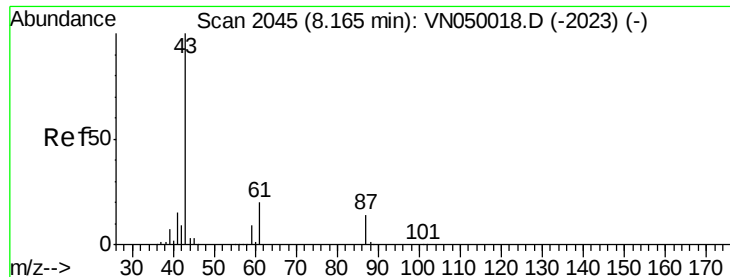
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



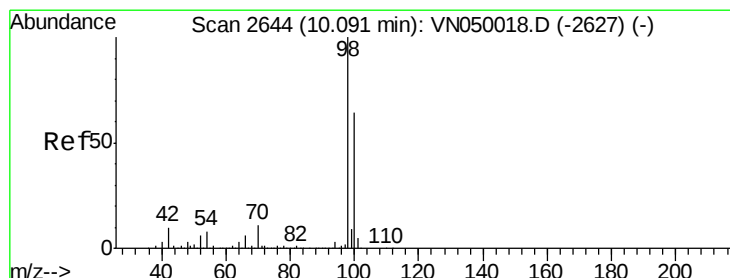
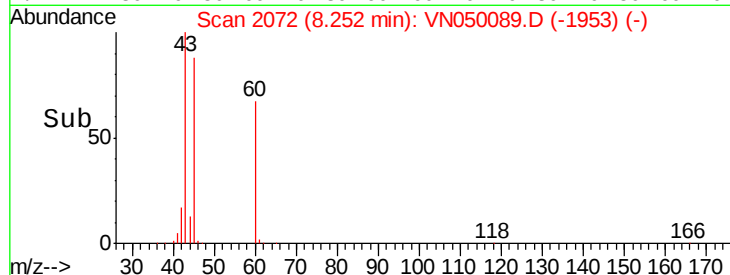
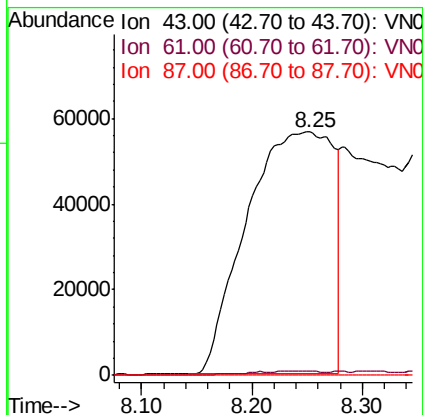
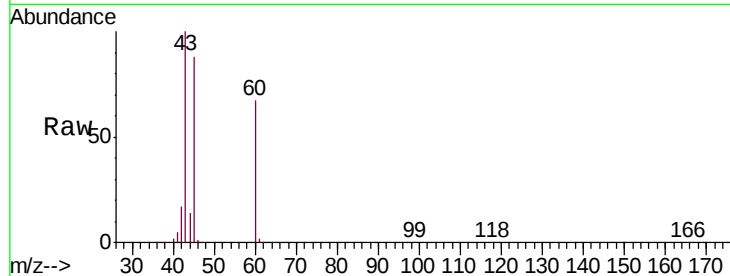


#43

Isopropyl Acetate
 Concen: 17.73 ug/l
 RT: 8.25 min Scan# 2072
 Delta R.T. 0.08 min
 Lab File: VN050089.D
 Acq: 26 Jul 2018 18:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1B

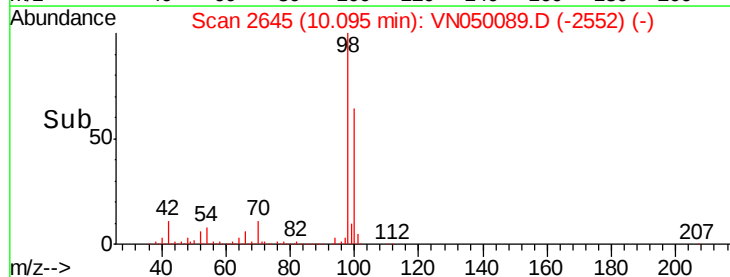
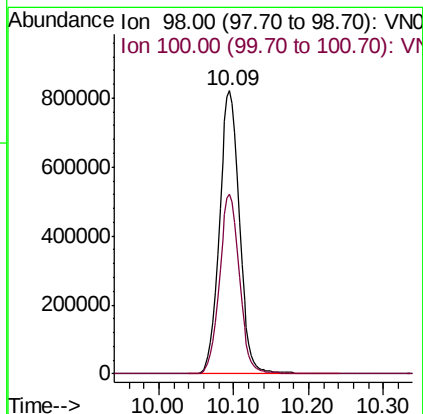
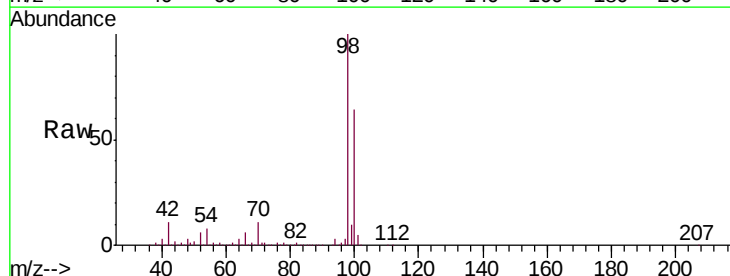
Tot Ion: 43 Resp: 306705
 Ion Ratio Lower Upper
 43 100
 61 0.0 15.8 23.6#
 87 0.0 10.3 15.5#

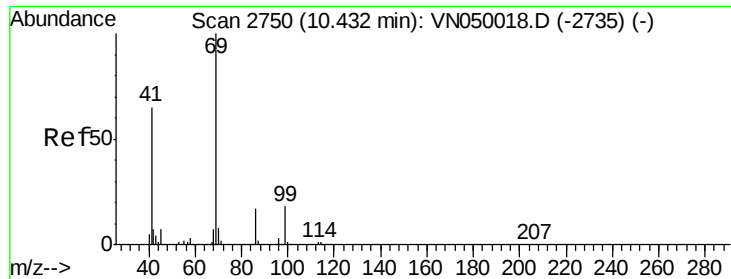


#50

Toluene-d8
 Concen: 45.03 ug/l
 RT: 10.09 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VN050089.D
 Acq: 26 Jul 2018 18:06

Tgt Ion: 98 Resp: 1516655
 Ion Ratio Lower Upper
 98 100
 100 63.3 50.7 76.1





#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.15 min Scan# 2661

Delta R.T. -0.29 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampled :

MW-1B

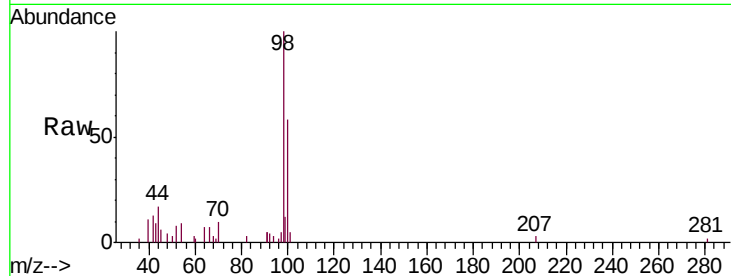
Tot Ion: 69 Resp: 95

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

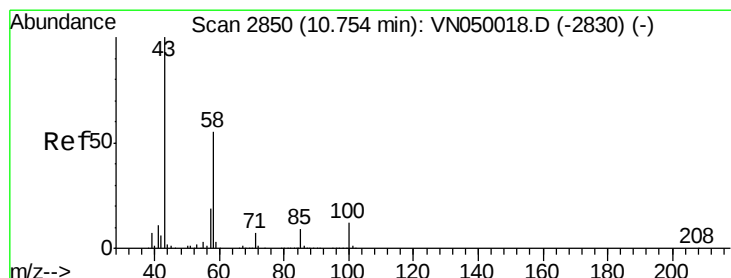
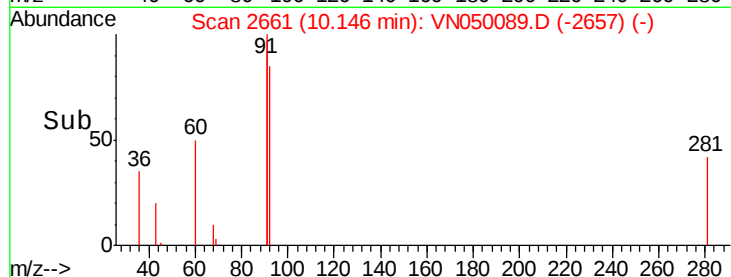
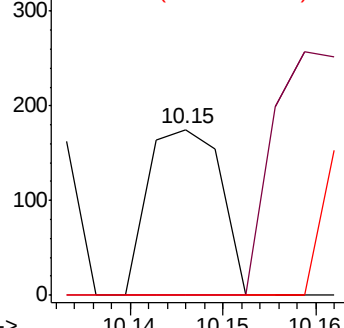
39 0.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 5.24 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VN050089.D

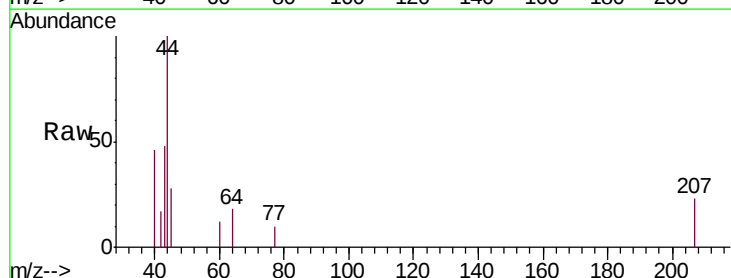
Acq: 26 Jul 2018 18:06

Tgt Ion: 43 Resp: 432

Ion Ratio Lower Upper

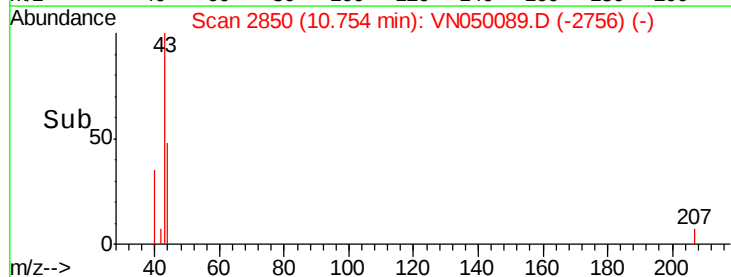
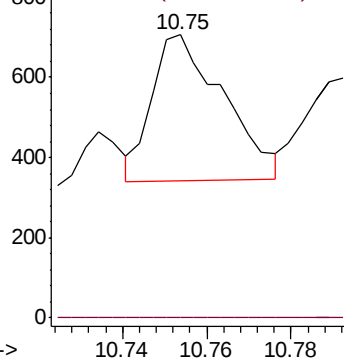
43 100

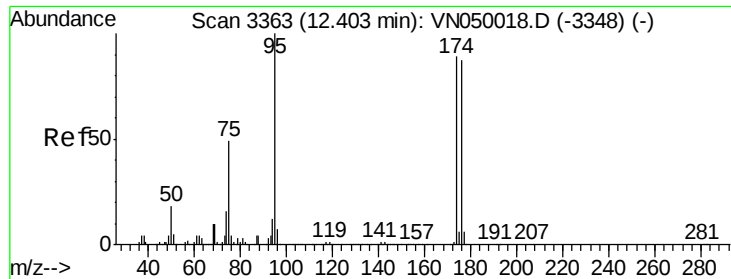
58 0.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.78 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampleId :

MW-1B

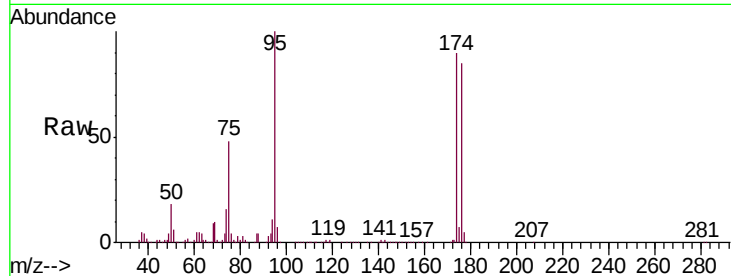
Tot Ion: 95 Resp: 430105

Ion Ratio Lower Upper

95 100

174 91.7 0.0 178.2

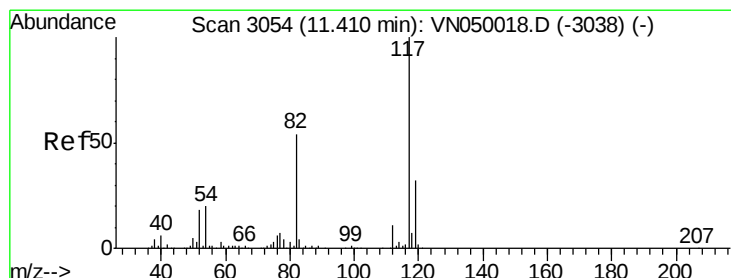
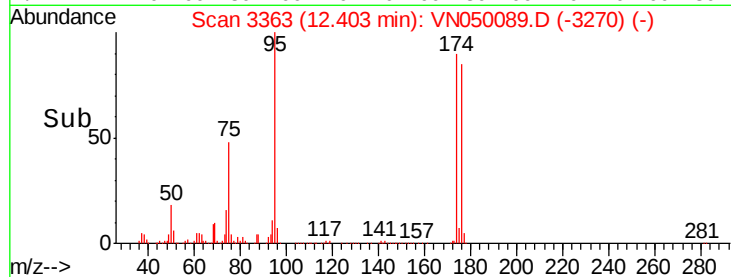
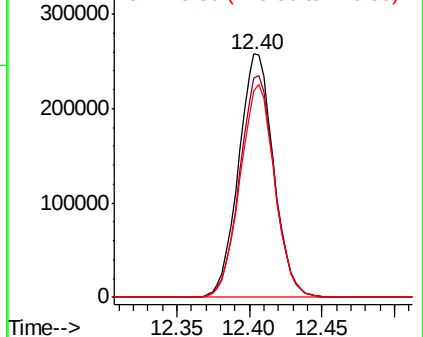
176 87.2 0.0 173.4



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: VN050089.D

Acq: 26 Jul 2018 18:06

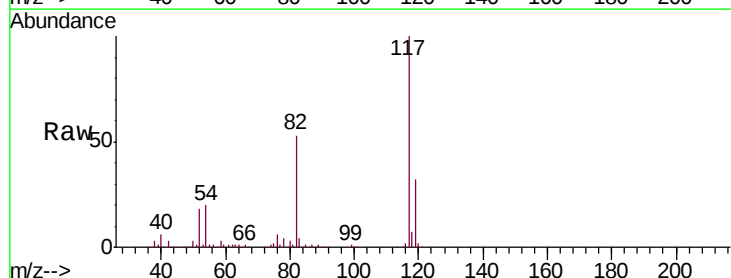
Tgt Ion: 117 Resp: 934929

Ion Ratio Lower Upper

117 100

82 53.1 43.7 65.5

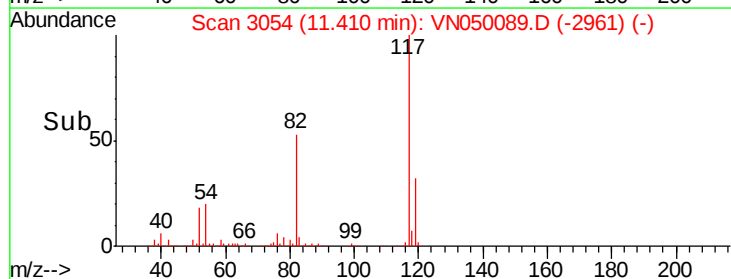
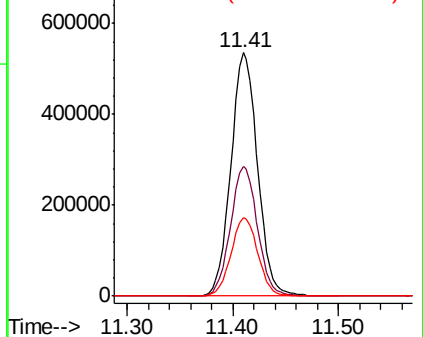
119 32.3 26.1 39.1

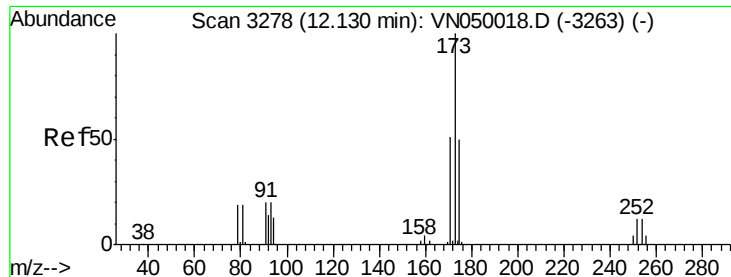


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.58 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampled :

MW-1B

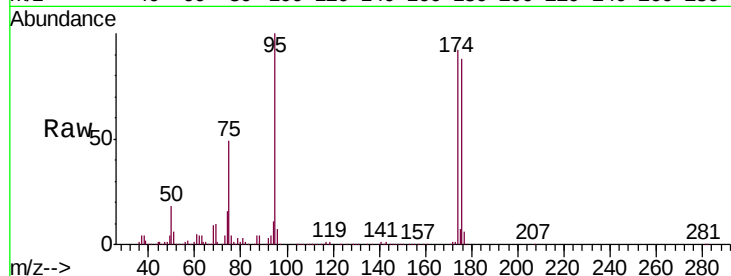
Tot Ion:173 Resp: 3836

Ion Ratio Lower Upper

173 100

175 657.8 24.1 72.2#

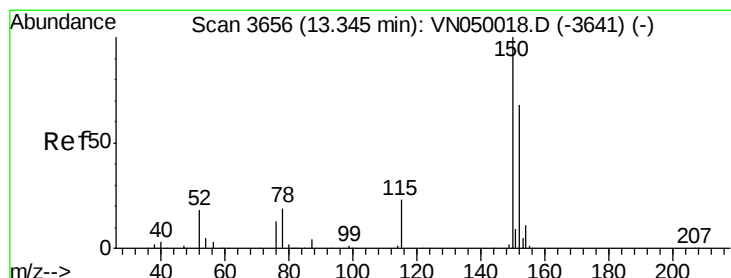
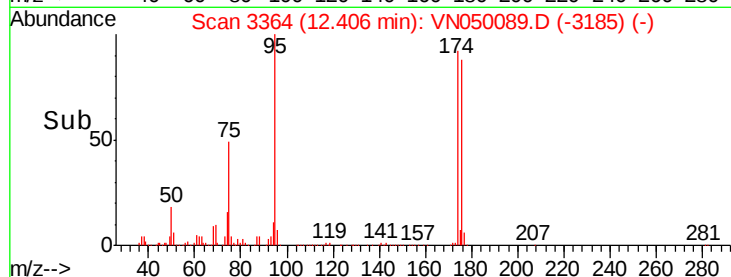
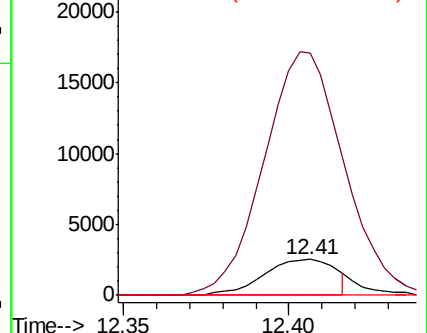
254 0.0 0.2 0.2#



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: VN050089.D

Acq: 26 Jul 2018 18:06

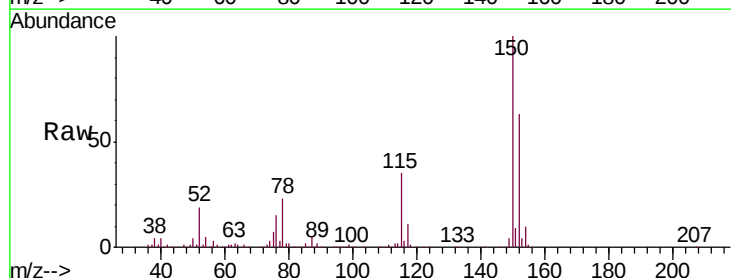
Tgt Ion:152 Resp: 361597

Ion Ratio Lower Upper

152 100

115 55.7 27.8 83.3

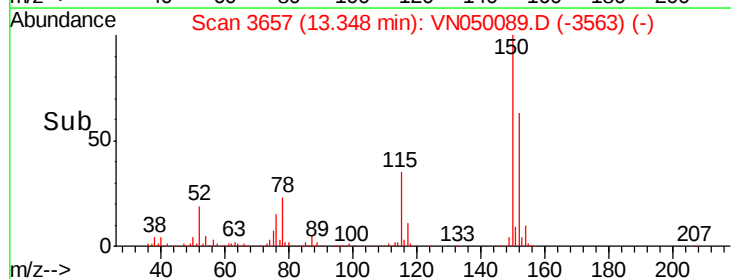
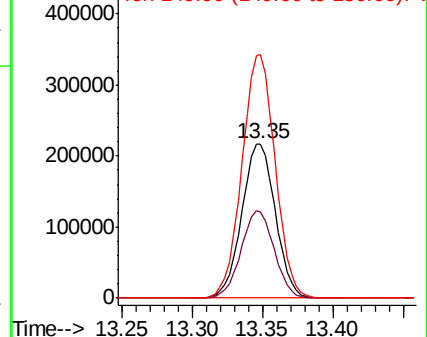
150 156.5 0.0 348.6

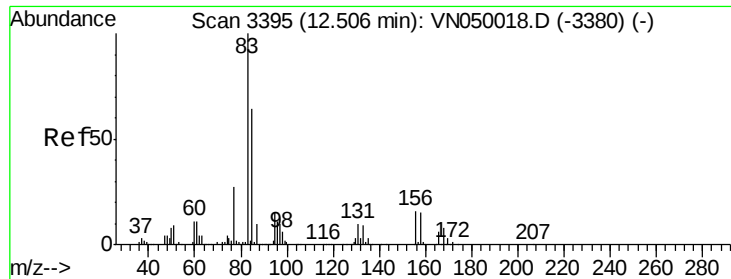


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampled :

MW-1B

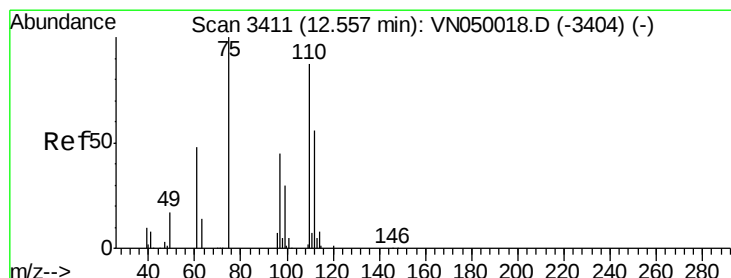
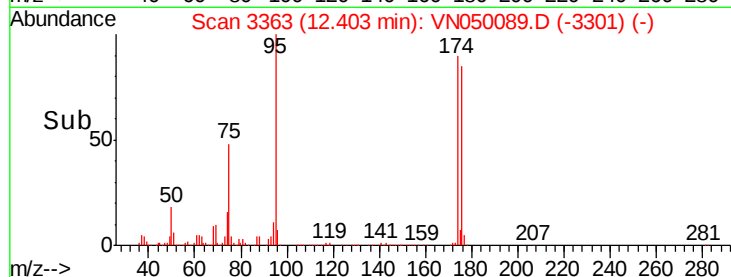
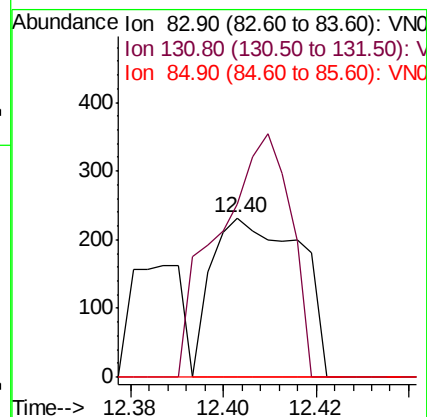
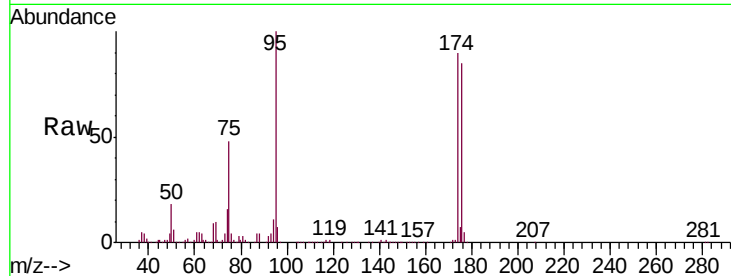
Tot Ion: 83 Resp: 306

Ion Ratio Lower Upper

83 100

131 126.1 5.1 15.3#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 31.39 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN050089.D

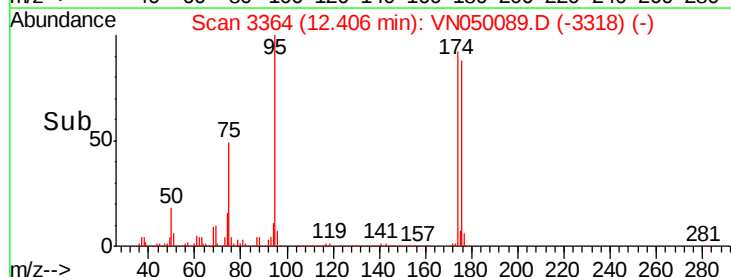
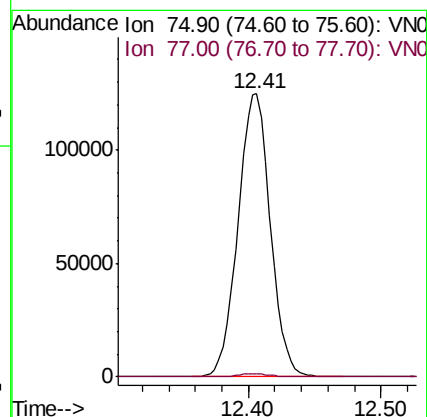
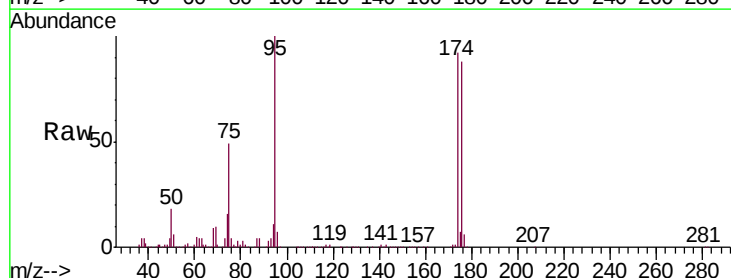
Acq: 26 Jul 2018 18:06

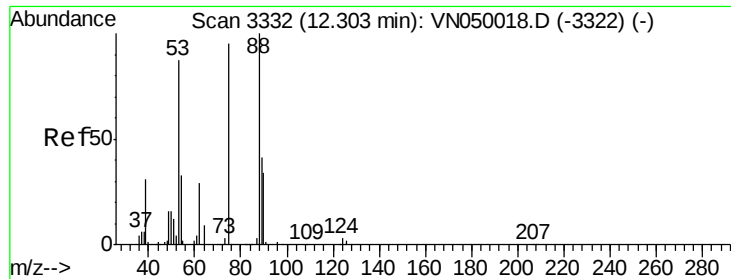
Tgt Ion: 75 Resp: 210919

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 99.55 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

Instrument :

MSVOA_N

ClientSampleId :

MW-1B

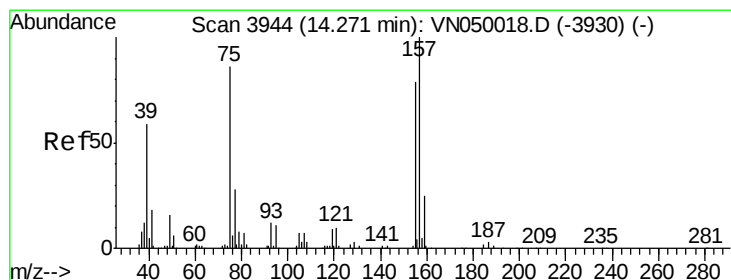
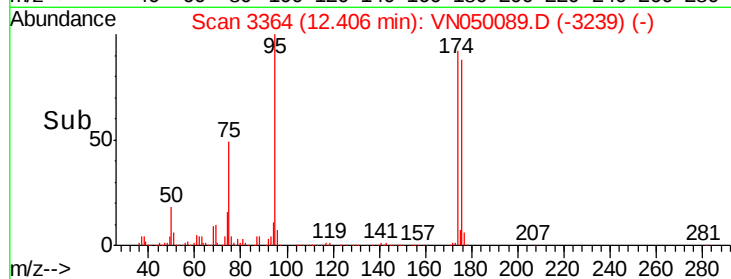
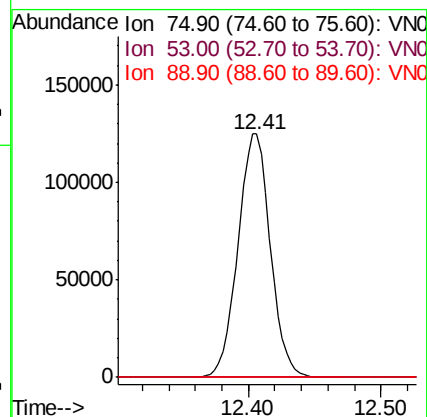
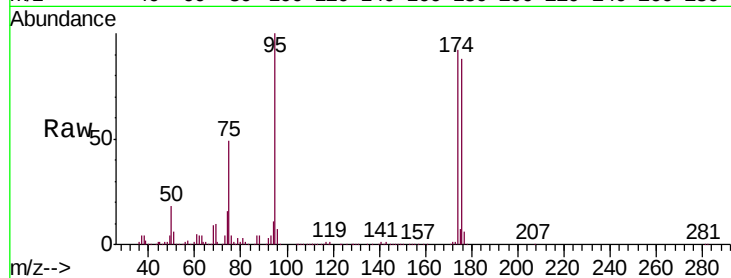
Tot Ion: 75 Resp: 210919

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.16 min Scan# 3908

Delta R.T. -0.12 min

Lab File: VN050089.D

Acq: 26 Jul 2018 18:06

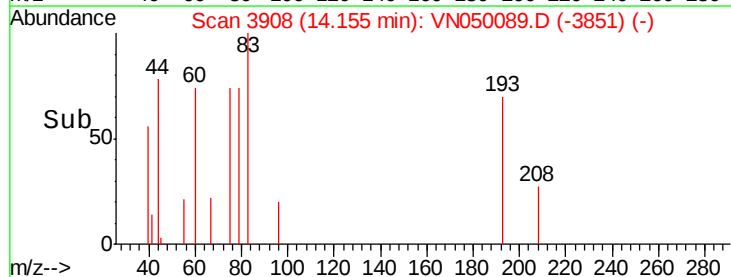
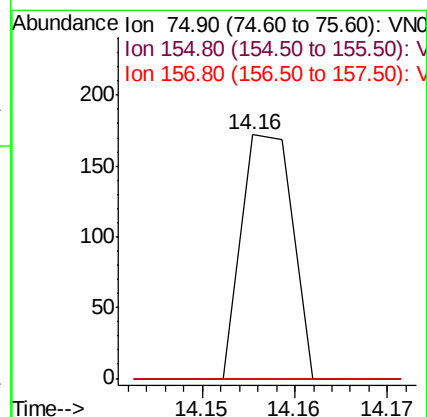
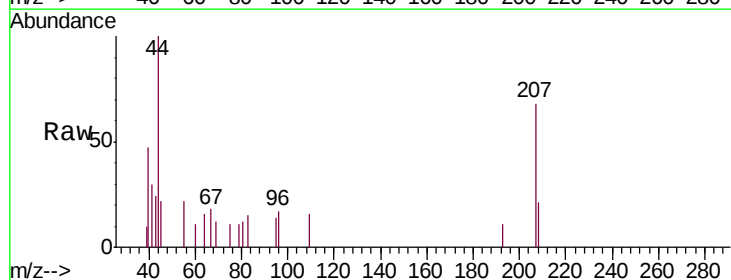
Tgt Ion: 75 Resp: 66

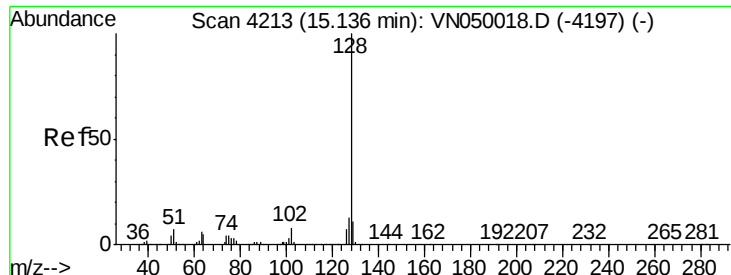
Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 0.0 57.2 171.6#

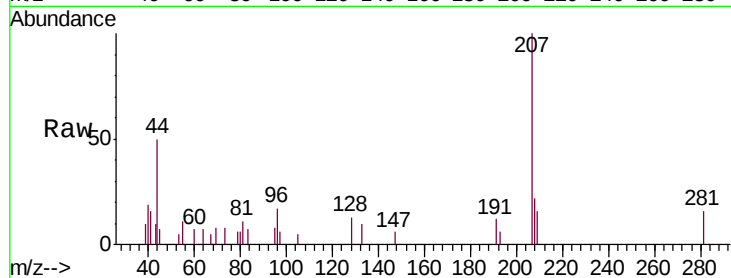




#95
Naphthalene
Concen: 4.44 ug/l
RT: 15.13 min Scan# 4210
Delta R.T. -0.01 min
Lab File: VN050089.D
Acq: 26 Jul 2018 18:06

Instrument :
MSVOA_N
ClientSampleId :
MW-1B

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	19.7	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

