

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050109.D
 Acq On : 27 Jul 2018 3:15
 Operator : MD\SY
 Sample : J4163-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13

Quant Time: Jul 27 04:05:29 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	680644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1121447	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	943513	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	376090	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	479502	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
35) Dibromofluoromethane	7.59	113	420094	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	
50) Toluene-d8	10.09	98	1523133	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
62) 4-Bromofluorobenzene	12.40	95	447732	40.39	ug/l	0.00
Spiked Amount			Recovery	=	80.78%	

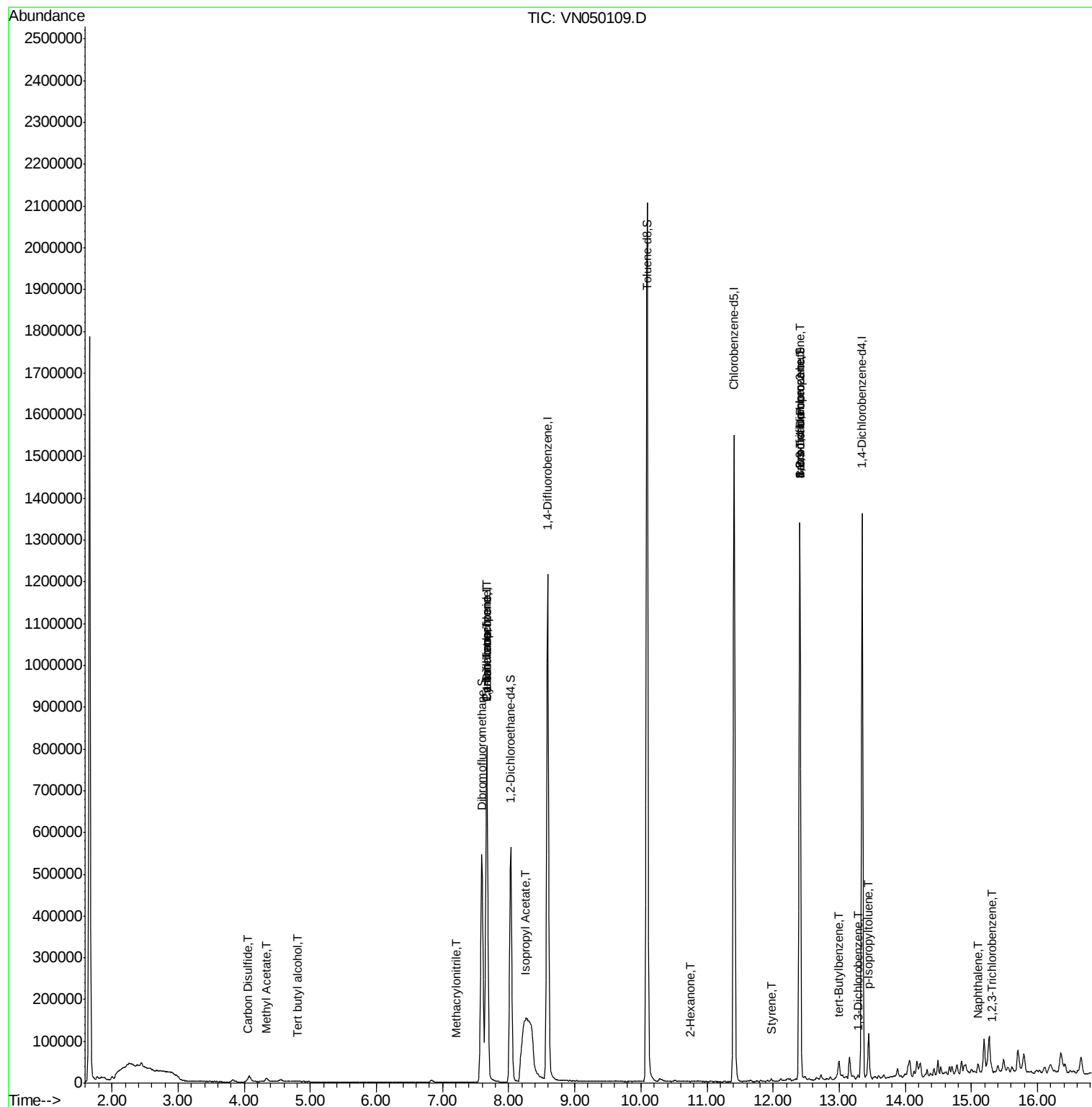
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	30	Below Cal	#	3
11) Tert butyl alcohol	4.80	59	228	0.33	ug/l #	72
16) Acetone	3.83	43	9129	Below Cal		95
17) Carbon Disulfide	4.05	76	5251	0.22	ug/l	97
18) Methyl Acetate	4.34	43	16021	0.22	ug/l #	79
20) Methylene Chloride	4.55	84	2440	Below Cal		98
31) Cyclohexane	7.66	56	12759	0.91	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	49881	3.95	ug/l #	49
38) Carbon Tetrachloride	7.67	117	62862	4.69	ug/l #	16
41) Methacrylonitrile	7.21	41	29	2.75	ug/l #	10
43) Isopropyl Acetate	8.24	43	176916	9.74	ug/l #	61
59) 2-Hexanone	10.75	43	554	5.26	ug/l #	24
70) Styrene	11.97	104	123	0.93	ug/l #	1
71) Bromoform	12.40	173	3994	0.60	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.48	83	137	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	218120	31.21	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	218120	98.98	ug/l #	13
83) tert-Butylbenzene	12.99	119	14148	0.71	ug/l	95
86) p-Isopropyltoluene	13.44	119	55499	2.46	ug/l	94
87) 1,3-Dichlorobenzene	13.28	146	2792	0.20	ug/l #	78
92) 1,2-Dibromo-3-Chloropropan	14.22	75	209	Below Cal	#	22
95) Naphthalene	15.10	128	1673	4.50	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.32	180	154	2.23	ug/l #	1

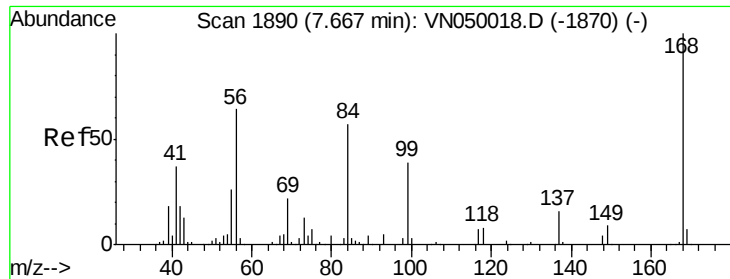
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072618\
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Acq On : 27 Jul 2018 3:15
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Instrument :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
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: VN050109.D

Acq: 27 Jul 2018 3:15

Instrument :

MSVOA_N

ClientSampleId :

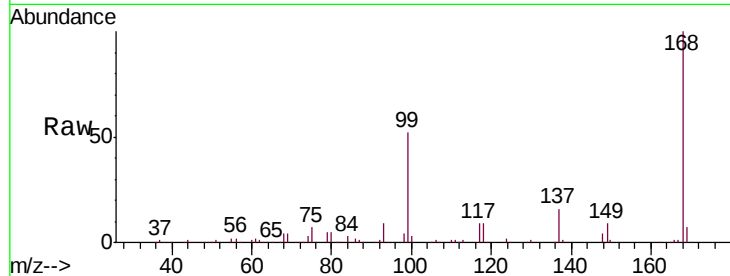
MW-13

Tot Ion:168 Resp: 680644

Ion Ratio Lower Upper

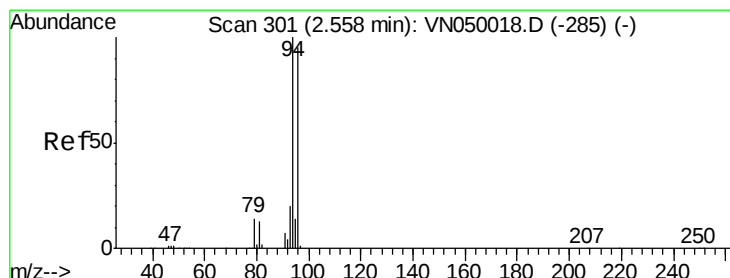
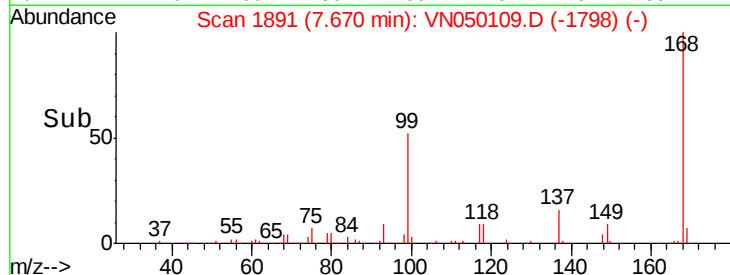
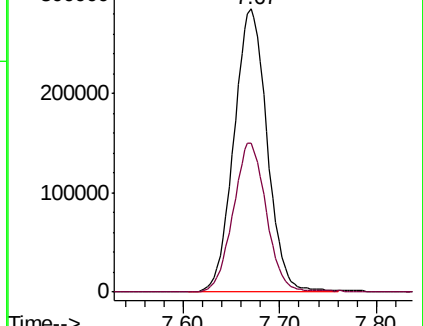
168 100

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



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 294

Delta R.T. -0.02 min

Lab File: VN050109.D

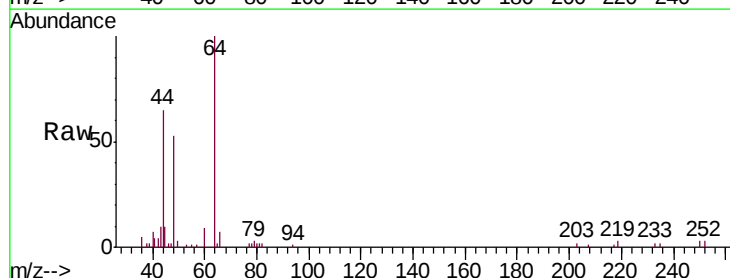
Acq: 27 Jul 2018 3:15

Tgt Ion: 94 Resp: 30

Ion Ratio Lower Upper

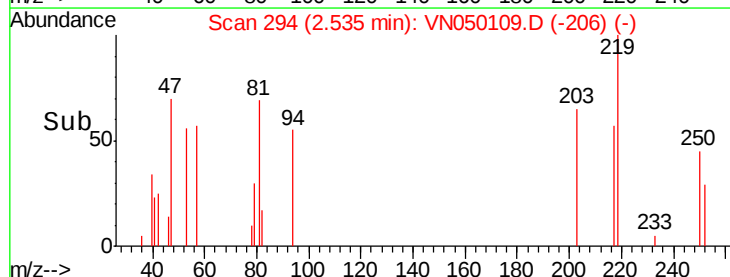
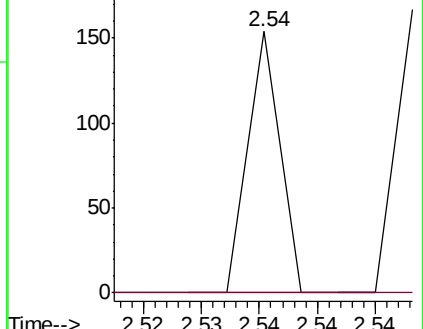
94 100

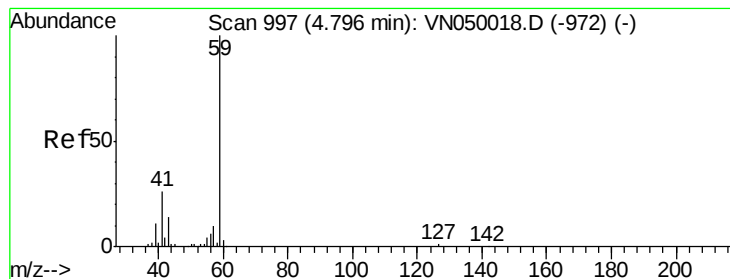
96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



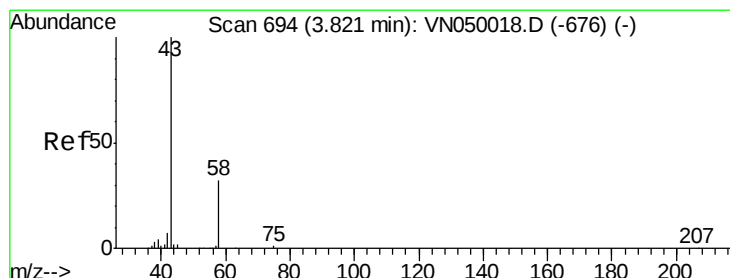
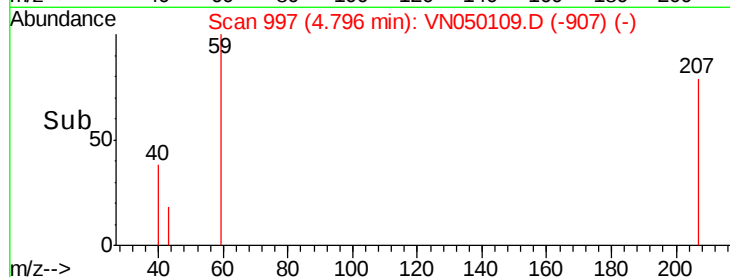
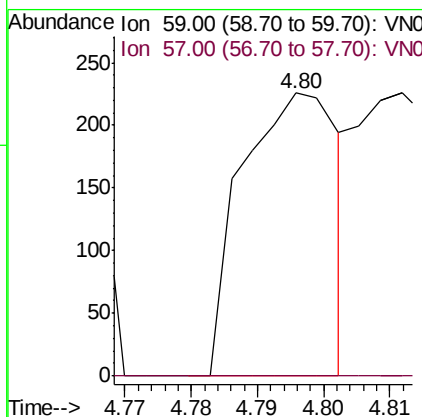
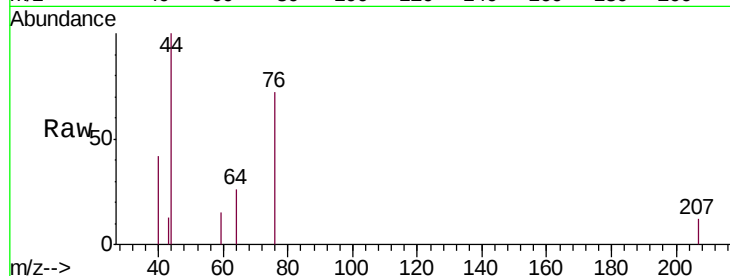


#11

Tert butyl alcohol
 Concen: 0.33 ug/l
 RT: 4.80 min Scan# 997
 Delta R.T. -0.01 min
 Lab File: VN050109.D
 Acq: 27 Jul 2018 3:15

Instrument :
 MSVOA_N
 ClientSampled :
 MW-13

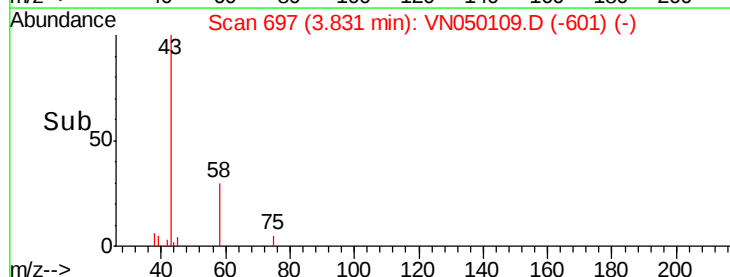
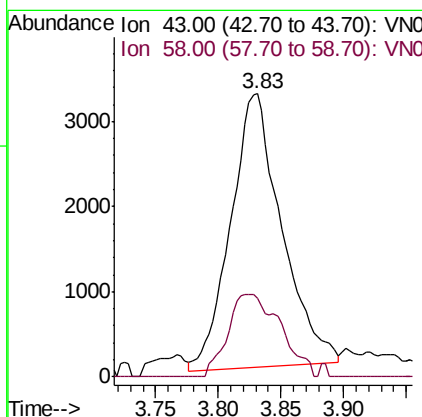
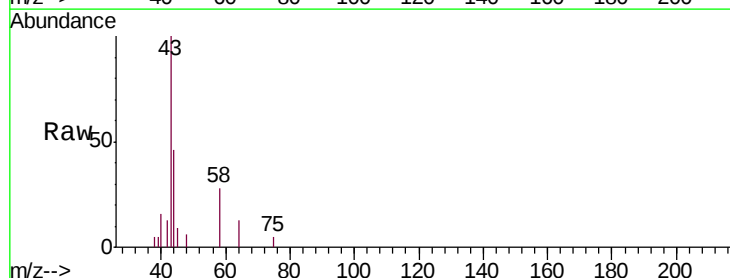
Tot Ion: 59 Resp: 228
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

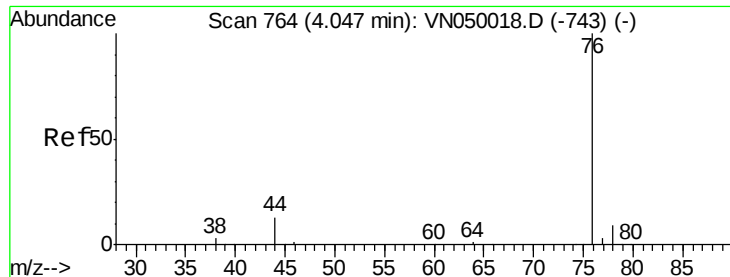


#16

Acetone
 Concen: Below Cal
 RT: 3.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VN050109.D
 Acq: 27 Jul 2018 3:15

Tgt Ion: 43 Resp: 9129
 Ion Ratio Lower Upper
 43 100
 58 29.3 25.8 38.8

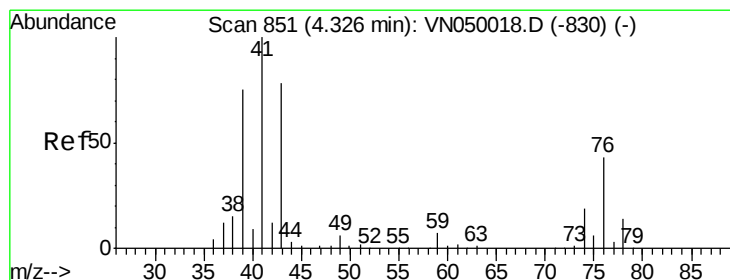
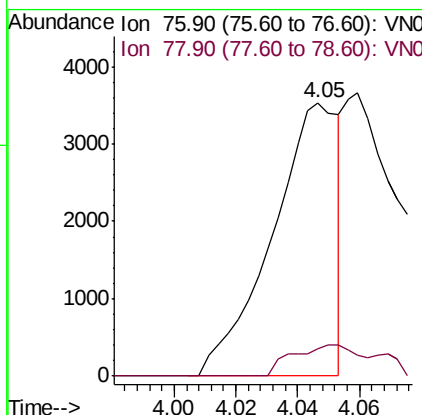
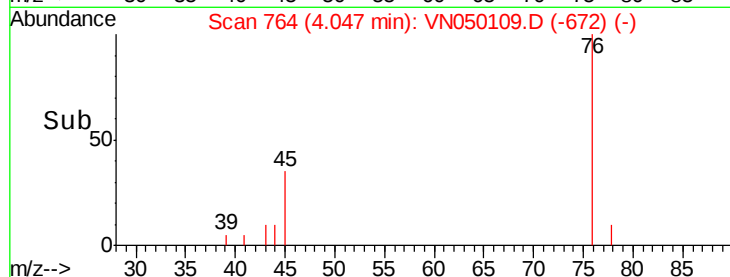
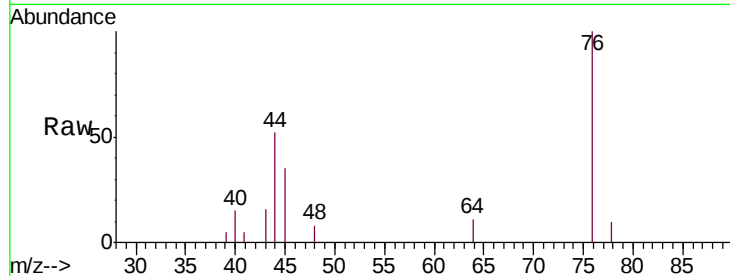




#17
Carbon Disulfide
Concen: 0.22 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

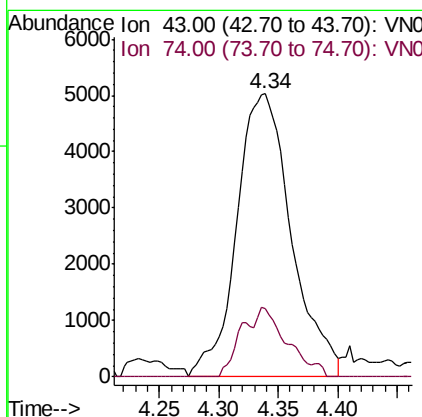
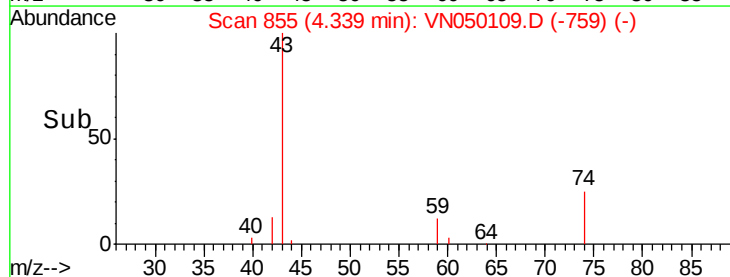
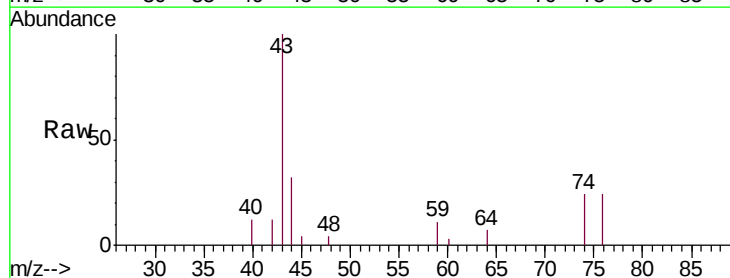
Instrument :
MSVOA_N
ClientSampleId :
MW-13

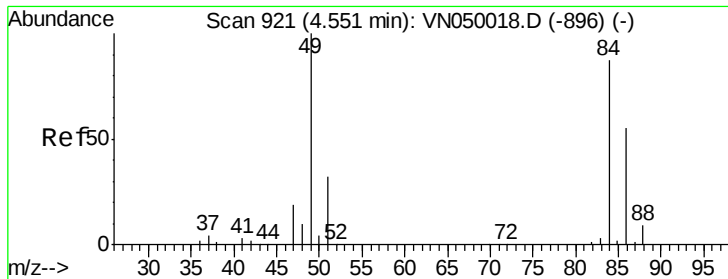
Tot Ion: 76 Resp: 5251
Ion Ratio Lower Upper
76 100
78 10.0 7.3 10.9



#18
Methyl Acetate
Concen: 0.22 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Tgt Ion: 43 Resp: 16021
Ion Ratio Lower Upper
43 100
74 13.6 19.2 28.8#





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

Instrument :

MSVOA_N

ClientSampleId :

MW-13

Tot Ion: 84 Resp: 2440

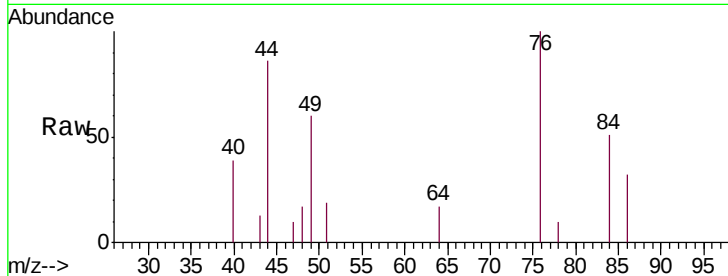
Ion Ratio Lower Upper

84 100

49 116.2 94.8 142.2

51 37.2 28.3 42.5

86 62.0 51.0 76.6

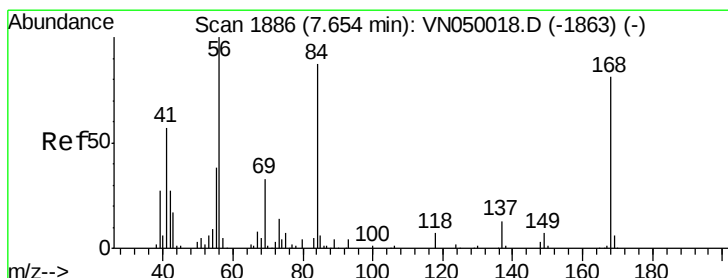
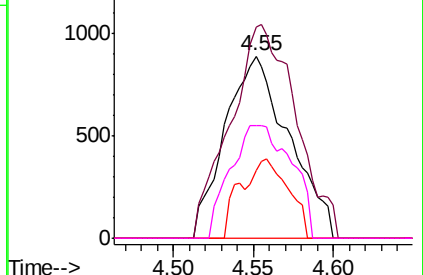
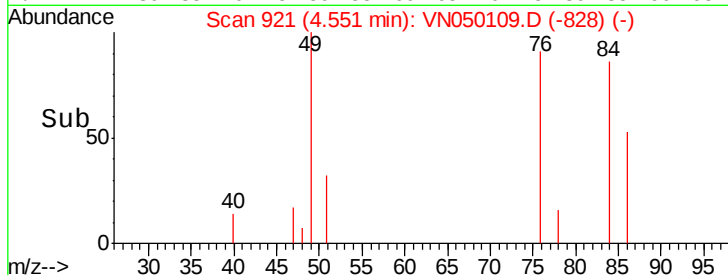


Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

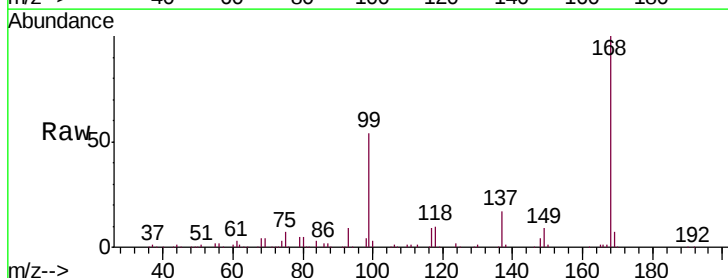
Tgt Ion: 56 Resp: 12759

Ion Ratio Lower Upper

56 100

69 181.2 26.2 39.4#

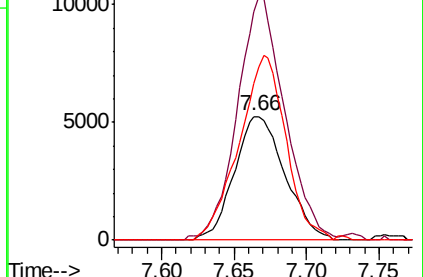
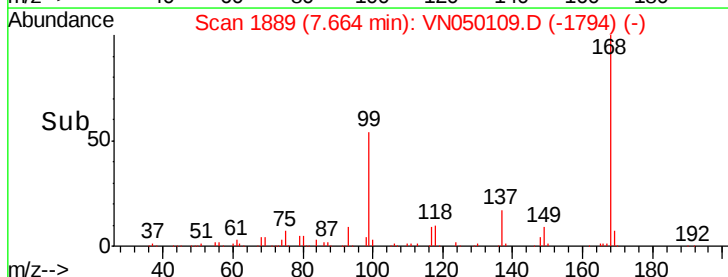
84 126.7 67.4 101.0#

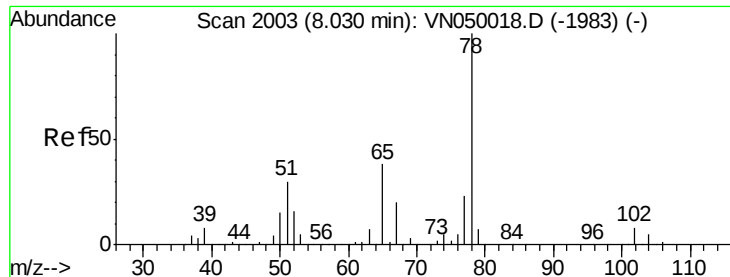


Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC





#33

1,2-Dichloroethane-d4

Concen: 50.49 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

Instrument :

MSVOA_N

ClientSampleId :

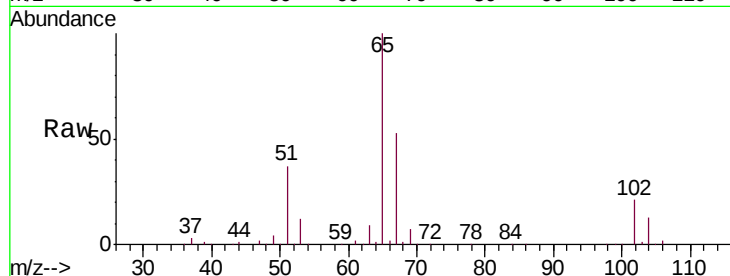
MW-13

Tot Ion: 65 Resp: 479502

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.4



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

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

8.03

200000

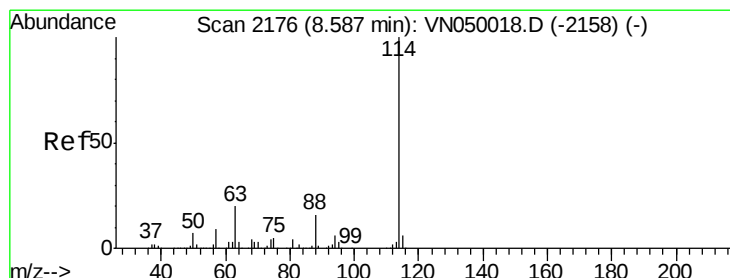
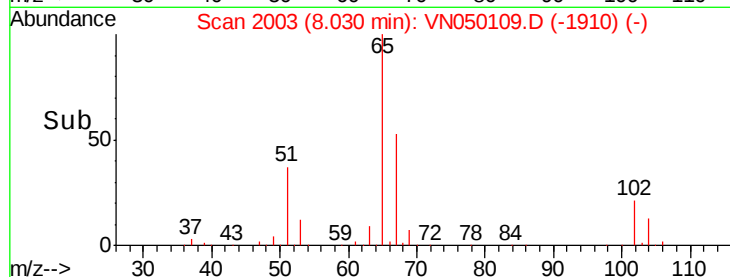
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

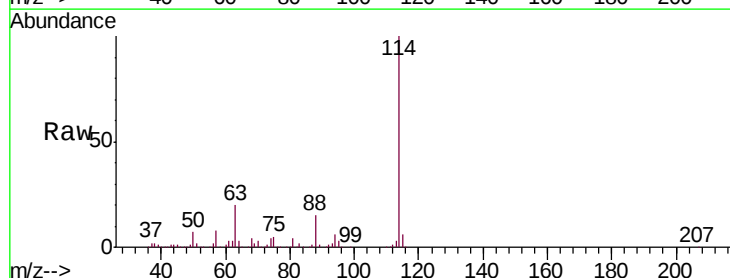
Tgt Ion: 114 Resp: 1121447

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

88 15.0 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

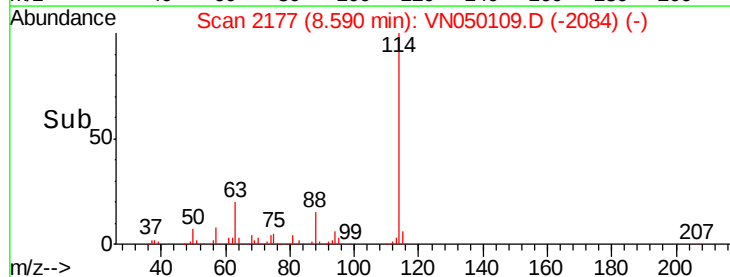
600000

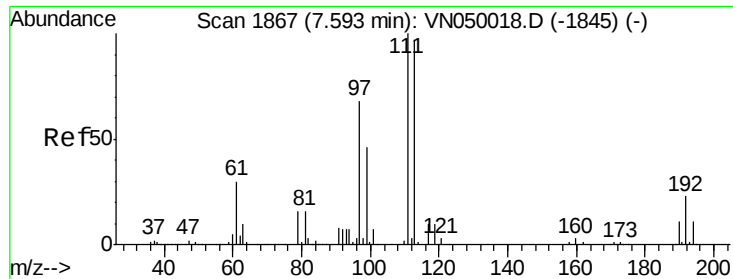
400000

200000

0

Time--> 8.50 8.60 8.70 8.80

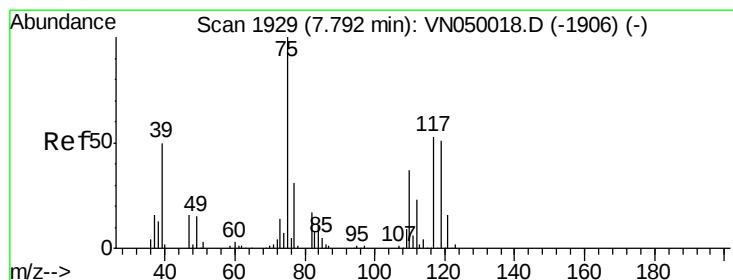
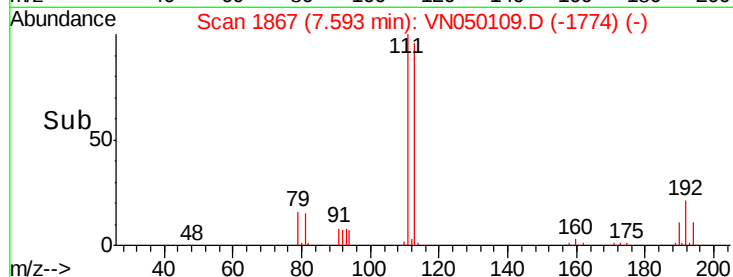
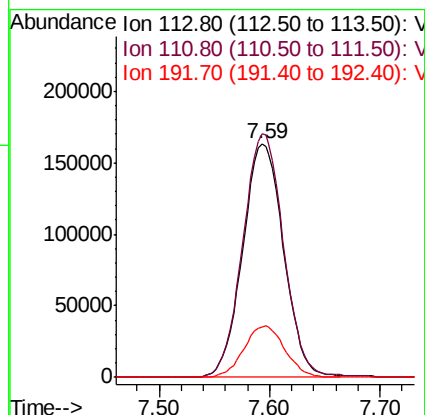
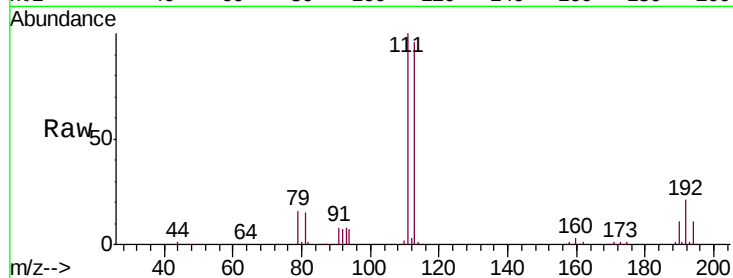




#35
 Dibromofluoromethane
 Concen: 45.88 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050109.D
 Acq: 27 Jul 2018 3:15

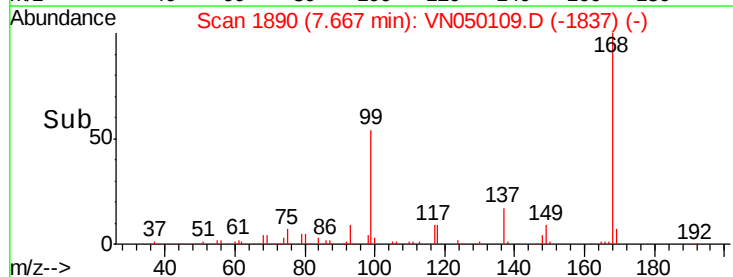
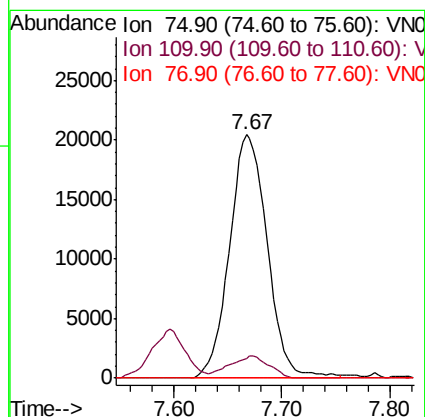
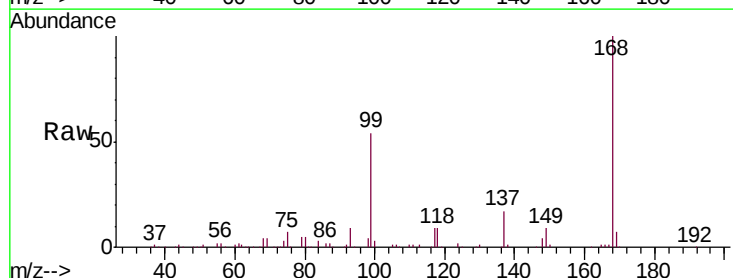
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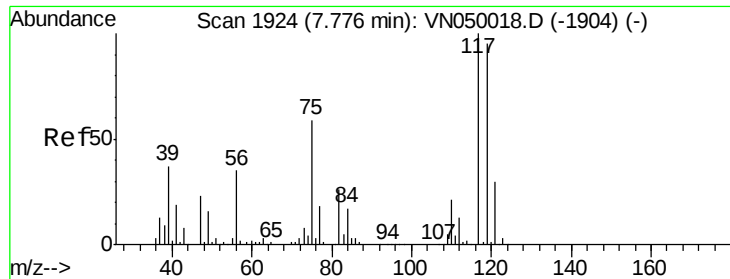
Tot Ion:113 Resp: 420094
 Ion Ratio Lower Upper
 113 100
 111 104.4 80.7 121.1
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.95 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050109.D
 Acq: 27 Jul 2018 3:15

Tgt Ion: 75 Resp: 49881
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.4 55.2#
 77 0.0 25.3 37.9#

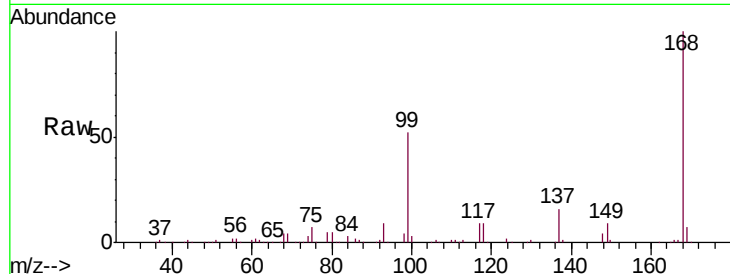




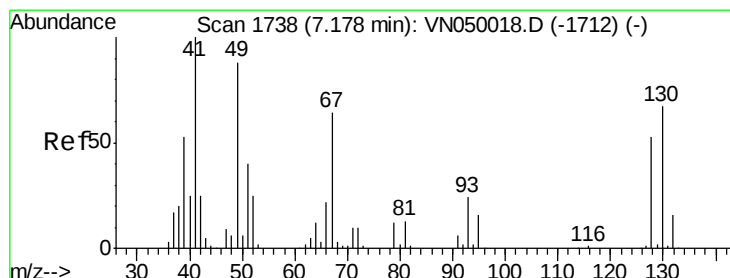
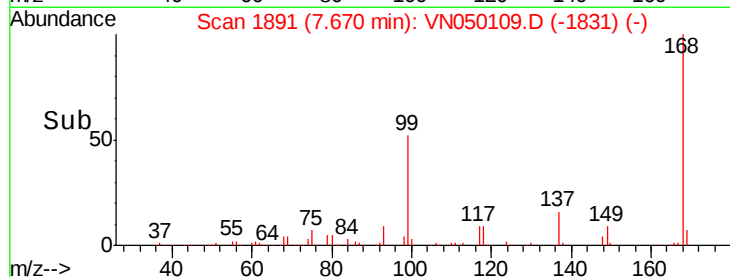
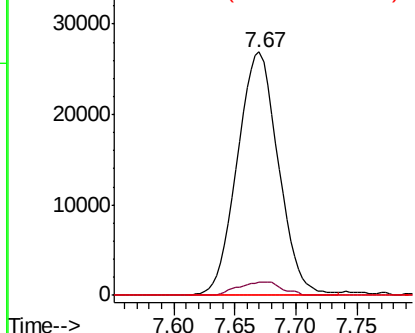
#38
Carbon Tetrachloride
Concen: 4.69 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Instrument :
MSVOA_N
ClientSampled :
MW-13

Tot Ion:117 Resp: 62862
Ion Ratio Lower Upper
117 100
119 5.2 77.4 116.0#
121 0.0 23.9 35.9#

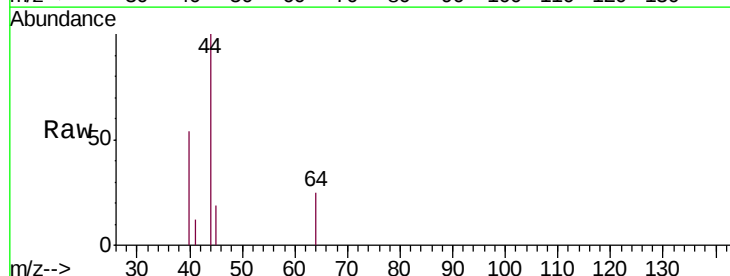


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

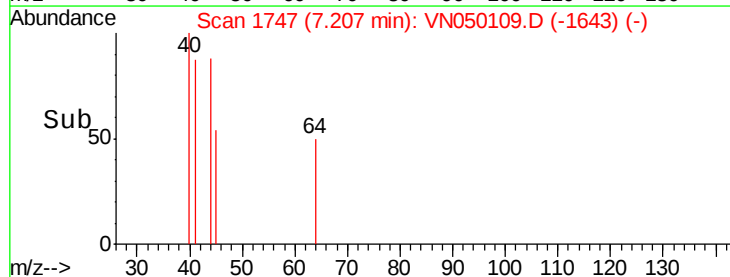
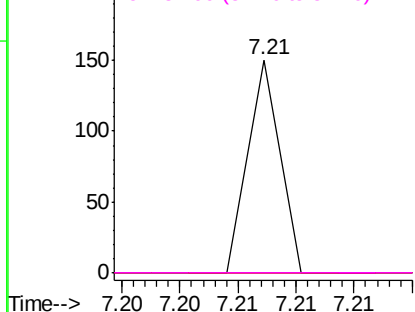


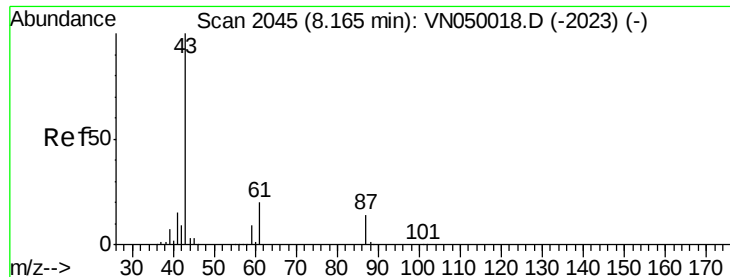
#41
Methacrylonitrile
Concen: 2.75 ug/l
RT: 7.21 min Scan# 1747
Delta R.T. 0.03 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Tgt Ion: 41 Resp: 29
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 9.74 ug/l

RT: 8.24 min Scan# 2069

Delta R.T. 0.07 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

Instrument :

MSVOA_N

ClientSampleId :

MW-13

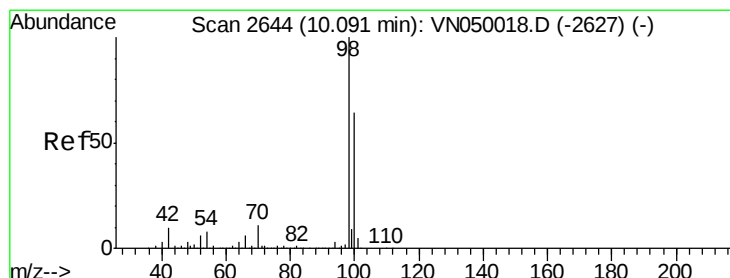
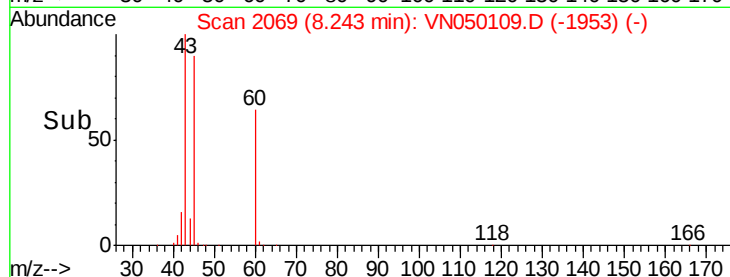
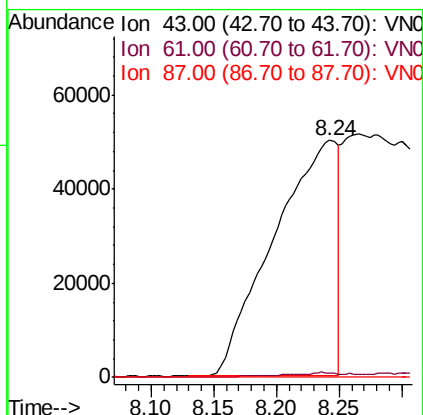
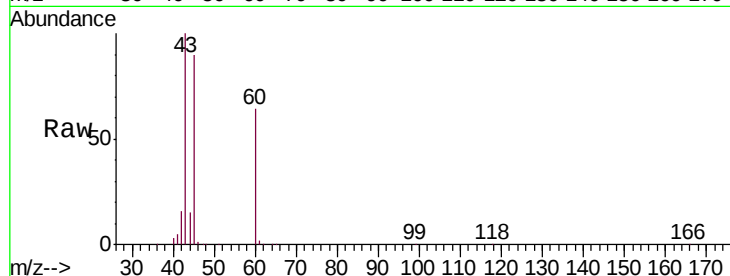
Tot Ion: 43 Resp: 176916

Ion Ratio Lower Upper

43 100

61 0.3 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 45.25 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050109.D

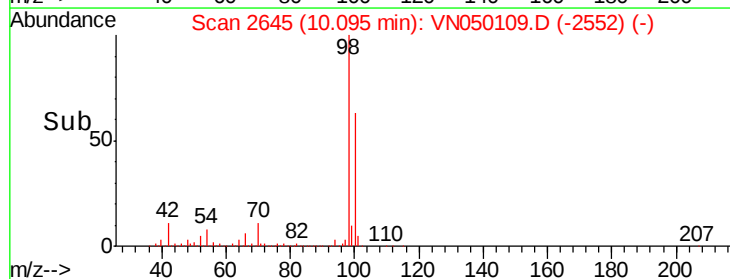
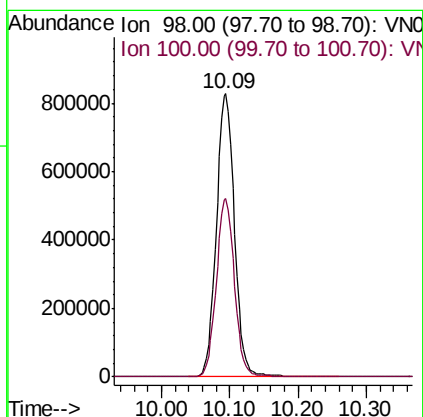
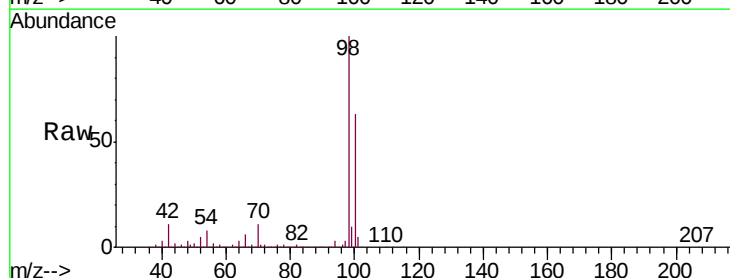
Acq: 27 Jul 2018 3:15

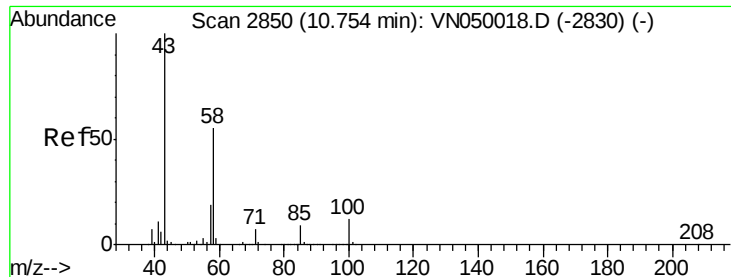
Tgt Ion: 98 Resp: 1523133

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1

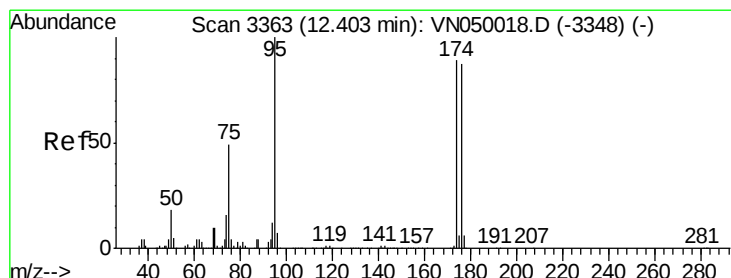
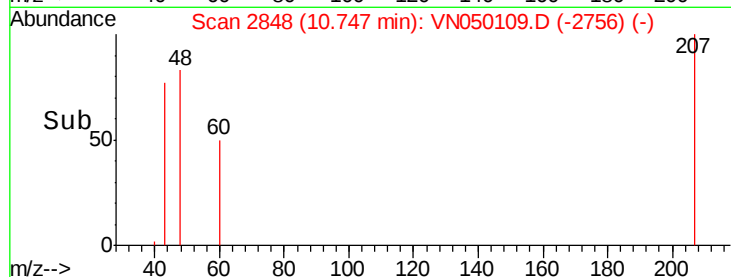
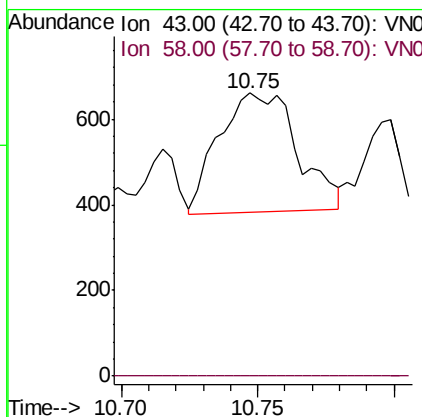
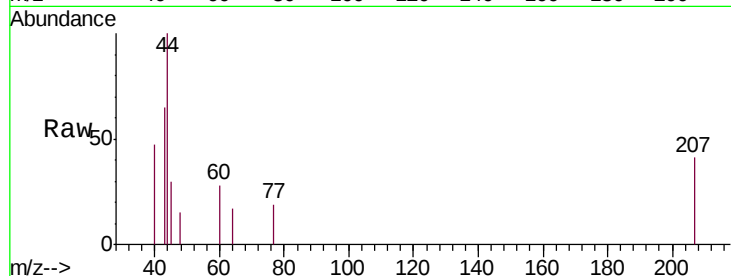




#59
2-Hexanone
Concen: 5.26 ug/l
RT: 10.75 min Scan# 2848
Delta R.T. -0.01 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

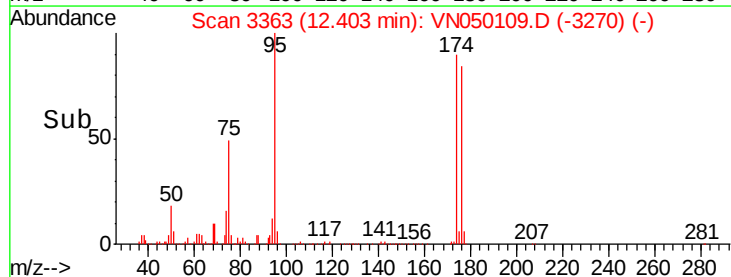
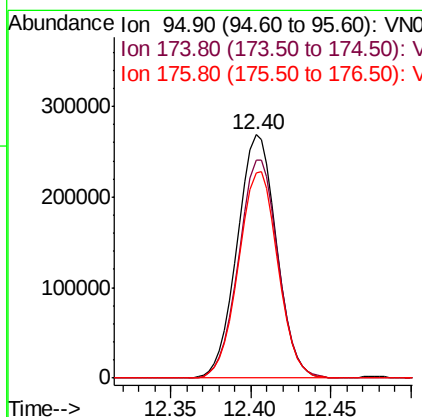
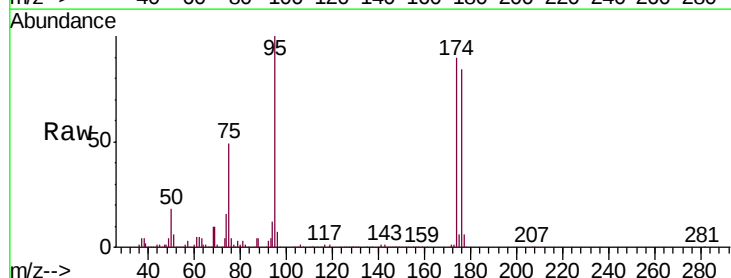
Instrument :
MSVOA_N
ClientSampled :
MW-13

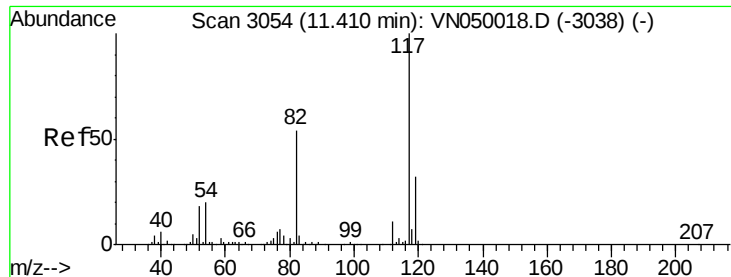
Tot Ion: 43 Resp: 554
Ion Ratio Lower Upper
43 100
58 0.0 27.6 82.7#



#62
4-Bromofluorobenzene
Concen: 40.39 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Tgt Ion: 95 Resp: 447732
Ion Ratio Lower Upper
95 100
174 90.4 0.0 178.2
176 85.4 0.0 173.4

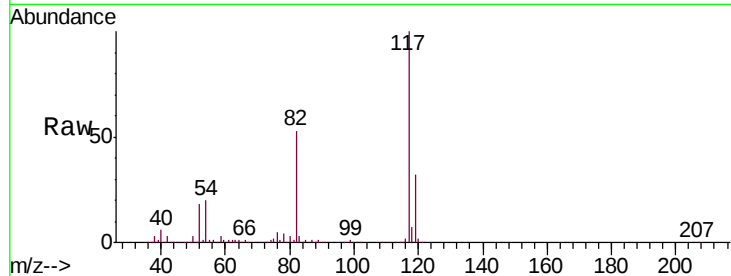




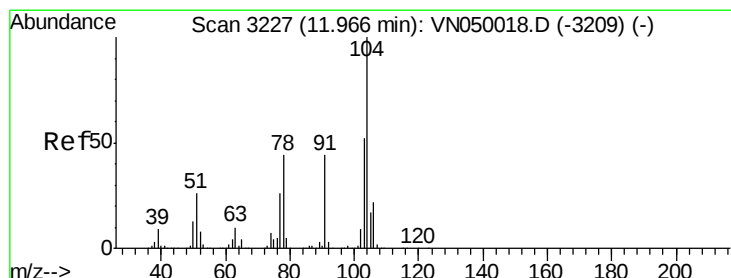
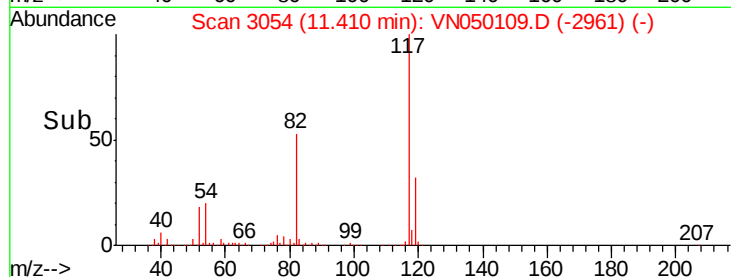
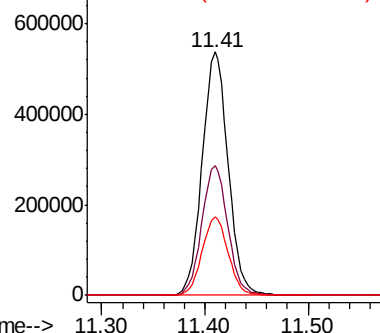
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Instrument :
MSVOA_N
ClientSampled :
MW-13

Tot Ion:117 Resp: 943513
Ion Ratio Lower Upper
117 100
82 53.2 43.7 65.5
119 32.1 26.1 39.1

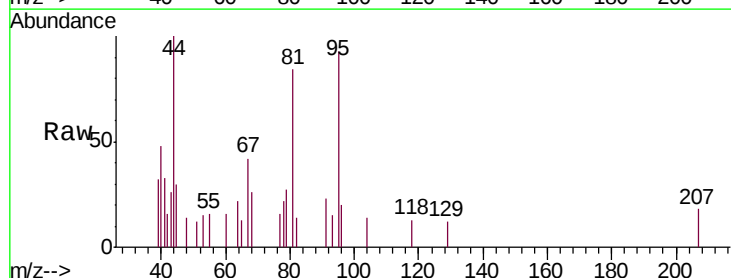


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

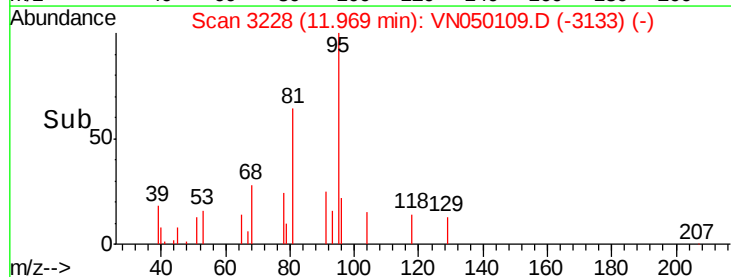
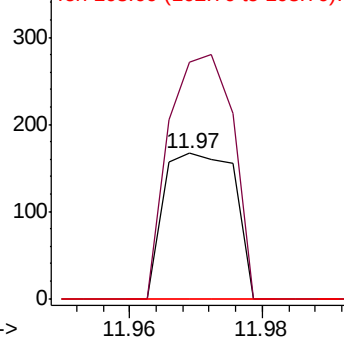


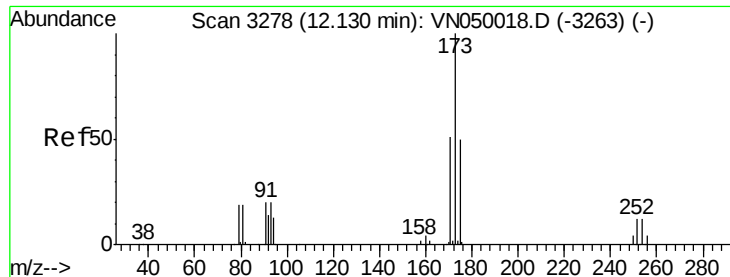
#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Tgt Ion:104 Resp: 123
Ion Ratio Lower Upper
104 100
78 152.0 39.3 58.9#
103 0.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

Instrument :

MSVOA_N

ClientSampled :

MW-13

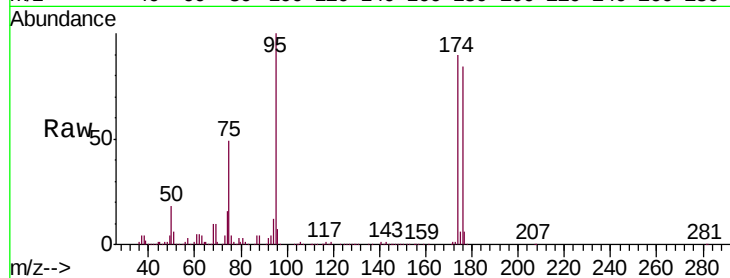
Tot Ion:173 Resp: 3994

Ion Ratio Lower Upper

173 100

175 647.0 24.1 72.2#

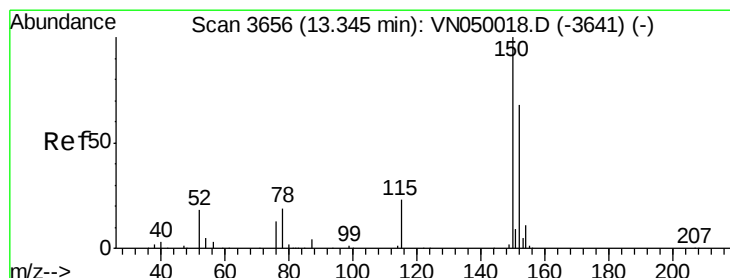
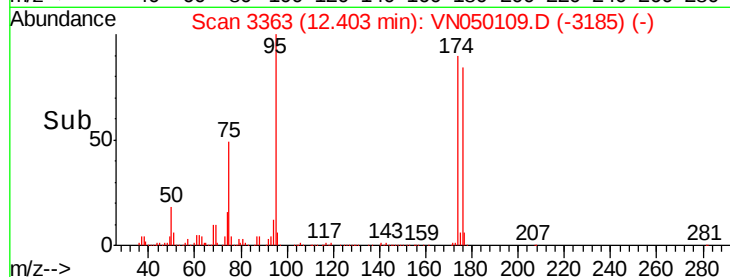
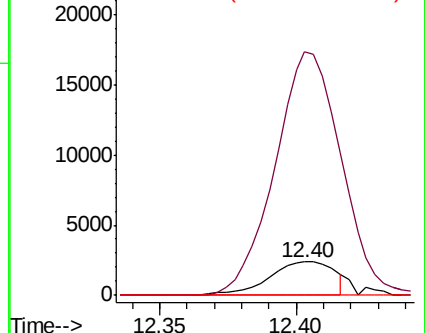
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

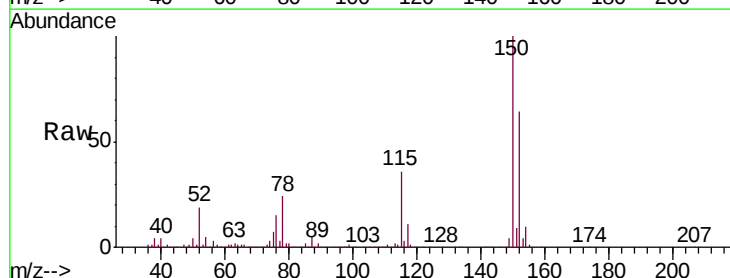
Tgt Ion:152 Resp: 376090

Ion Ratio Lower Upper

152 100

115 56.6 27.8 83.3

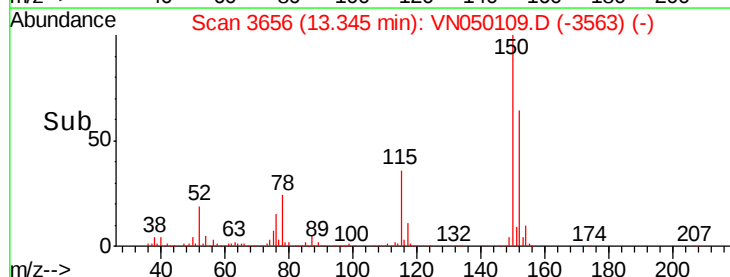
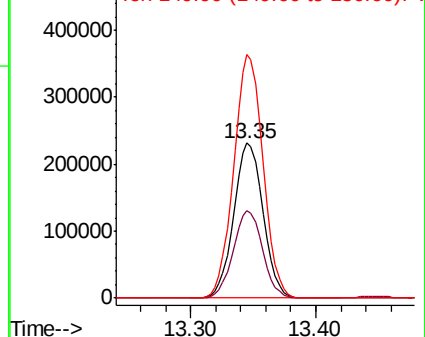
150 156.5 0.0 348.6

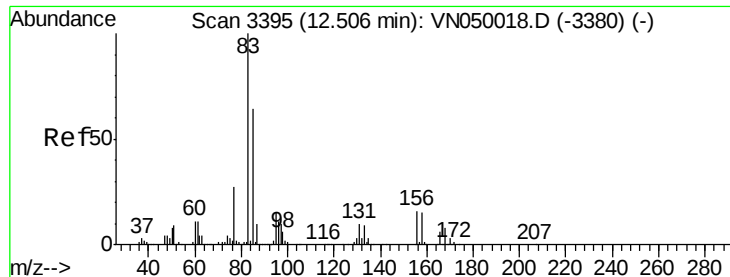


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.48 min Scan# 3386

Delta R.T. -0.03 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

Instrument :

MSVOA_N

ClientSampleId :

MW-13

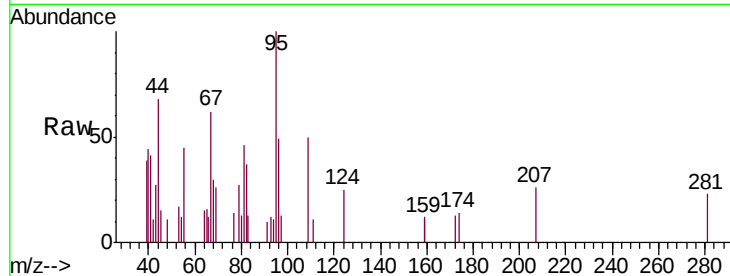
Tot Ion: 83 Resp: 137

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

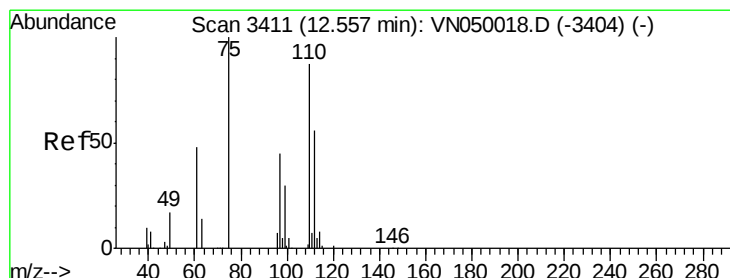
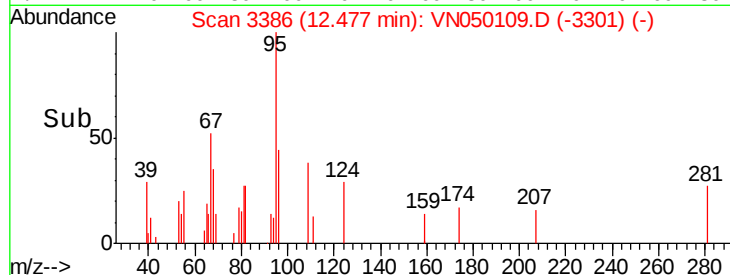
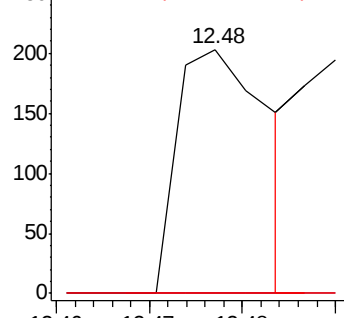
85 0.0 32.3 96.8#



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: 31.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050109.D

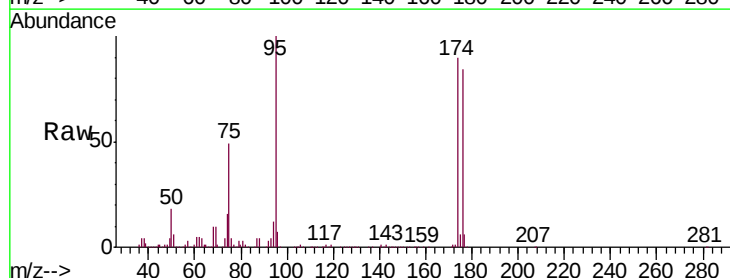
Acq: 27 Jul 2018 3:15

Tgt Ion: 75 Resp: 218120

Ion Ratio Lower Upper

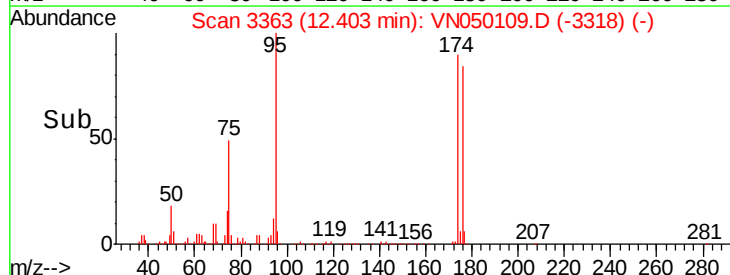
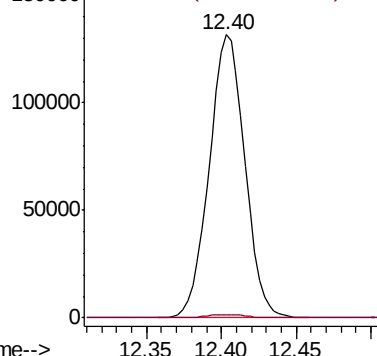
75 100

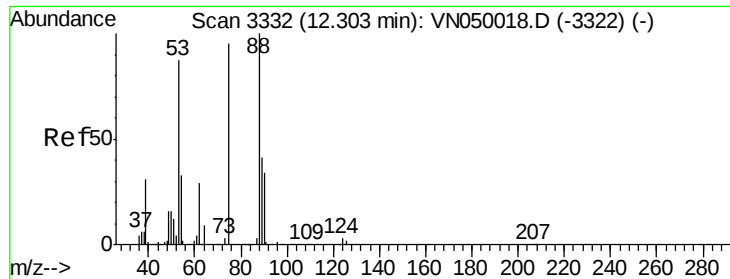
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

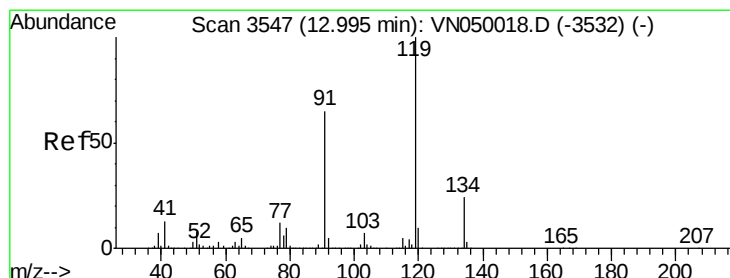
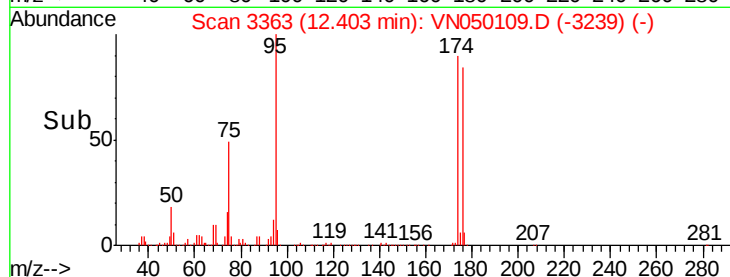
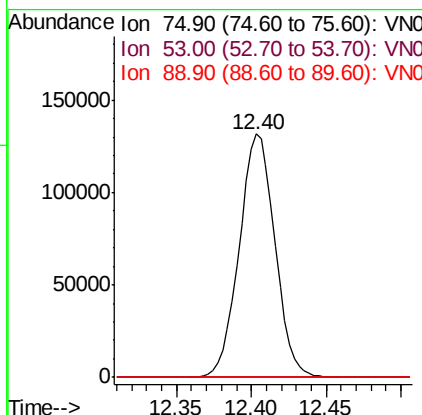
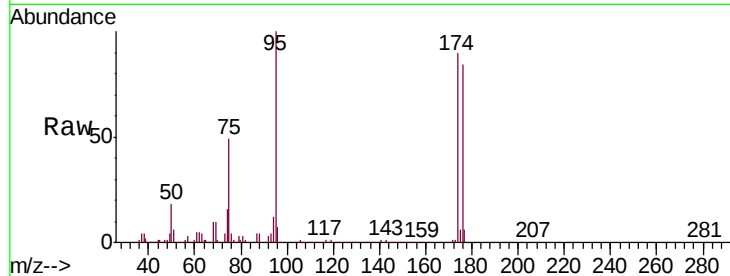




#81
 trans-1,4-Dichloro-2-butene
 Concen: 98.98 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050109.D
 Acq: 27 Jul 2018 3:15

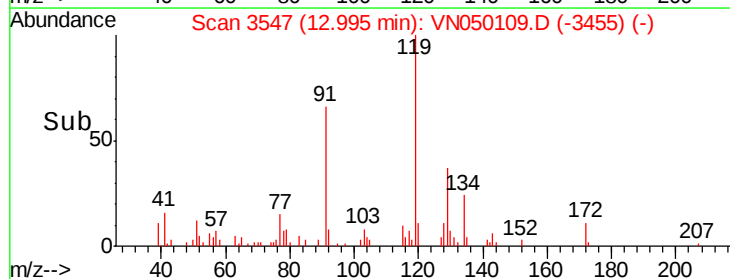
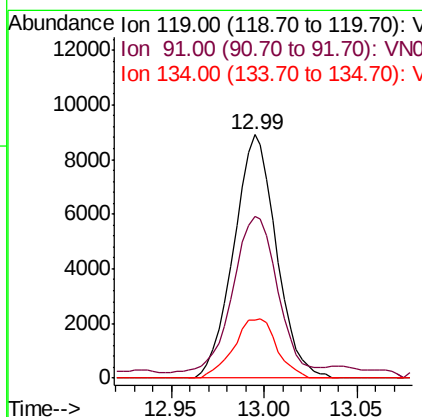
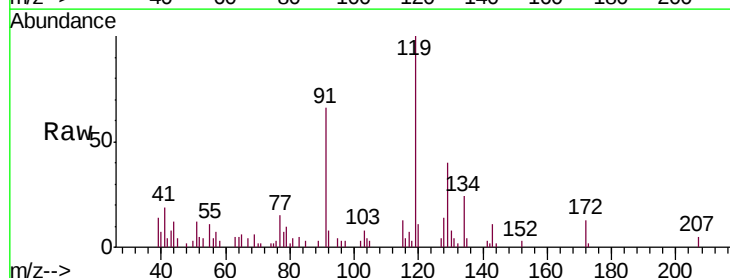
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13

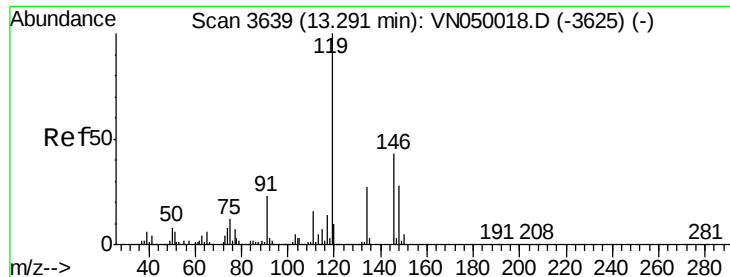
Tot Ion: 75 Resp: 218120
 Ion Ratio Lower Upper
 75 100
 53 0.3 73.5 110.3#
 89 0.0 36.0 54.0#



#83
 tert-Butylbenzene
 Concen: 0.71 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050109.D
 Acq: 27 Jul 2018 3:15

Tgt Ion: 119 Resp: 14148
 Ion Ratio Lower Upper
 119 100
 91 68.6 32.1 96.3
 134 24.6 13.2 39.5

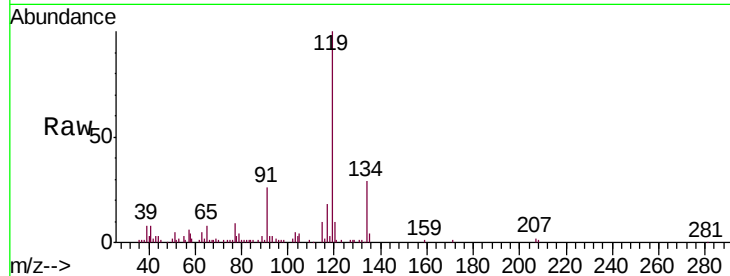




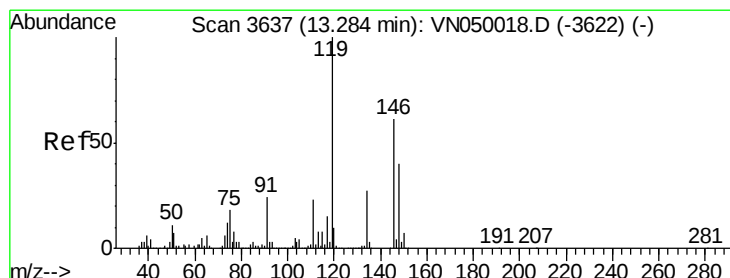
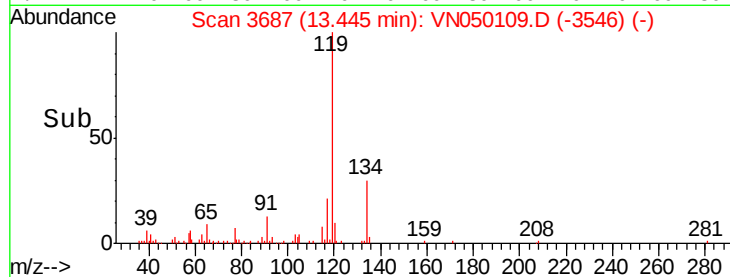
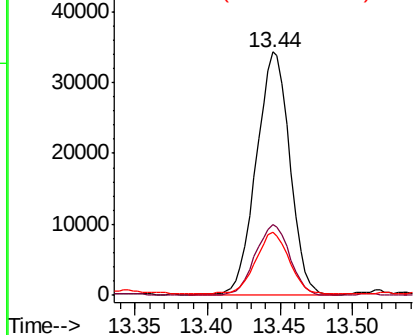
#86
p-Isopropyltoluene
Concen: 2.46 ug/l
RT: 13.44 min Scan# 3687
Delta R.T. 0.15 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Instrument :
MSVOA_N
ClientSampled :
MW-13

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.6	13.3	39.8
91	25.8	11.4	34.2

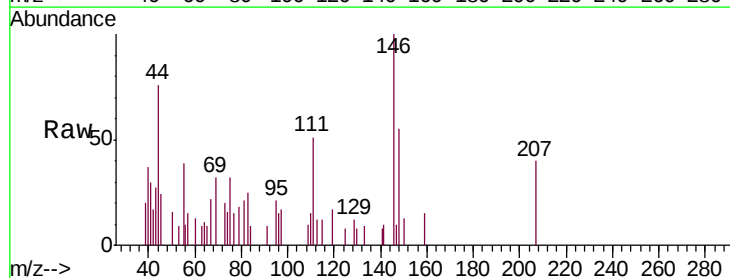


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

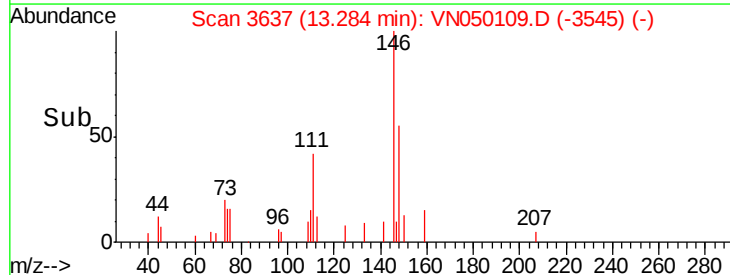
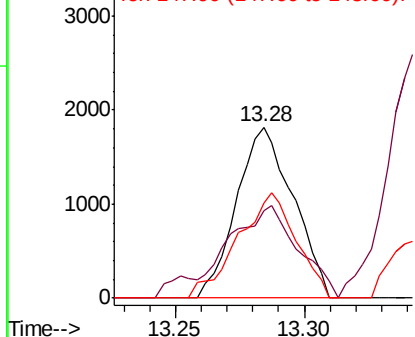


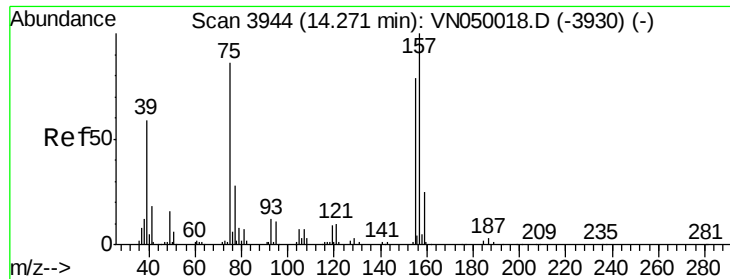
#87
1,3-Dichlorobenzene
Concen: 0.20 ug/l
RT: 13.28 min Scan# 3637
Delta R.T. -0.00 min
Lab File: VN050109.D
Acq: 27 Jul 2018 3:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	71.5	18.8	56.4#
148	63.1	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: 14.22 min Scan# 3928

Delta R.T. -0.05 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

Instrument :

MSVOA_N

ClientSampleId :

MW-13

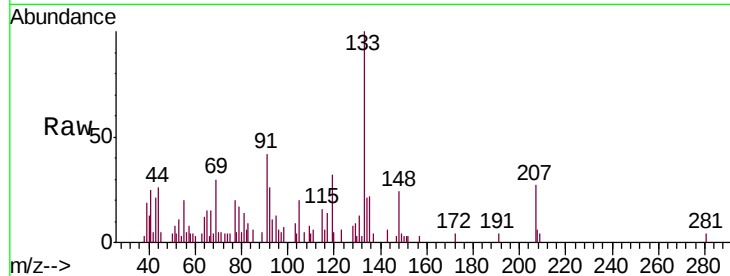
Tot Ion: 75 Resp: 209

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

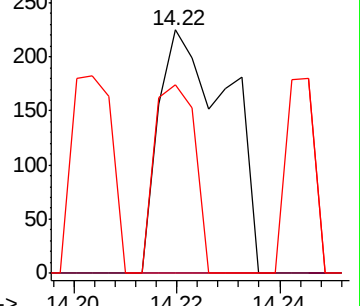
157 45.0 57.2 171.6#



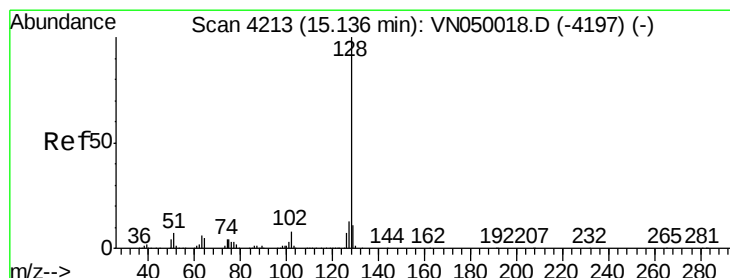
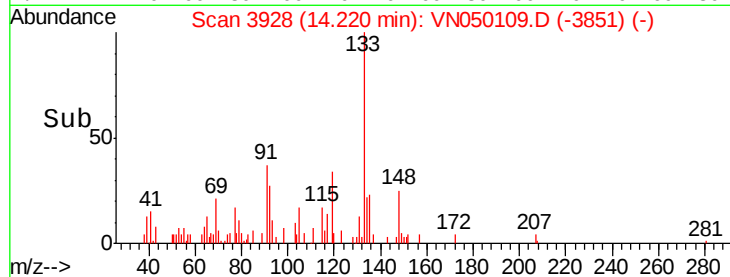
Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3930) (-)

Ion 154.80 (154.50 to 155.50): VN050018.D (-3930) (-)

Ion 156.80 (156.50 to 157.50): VN050018.D (-3930) (-)



Time-->



#95

Naphthalene

Concen: 4.50 ug/l

RT: 15.10 min Scan# 4202

Delta R.T. -0.04 min

Lab File: VN050109.D

Acq: 27 Jul 2018 3:15

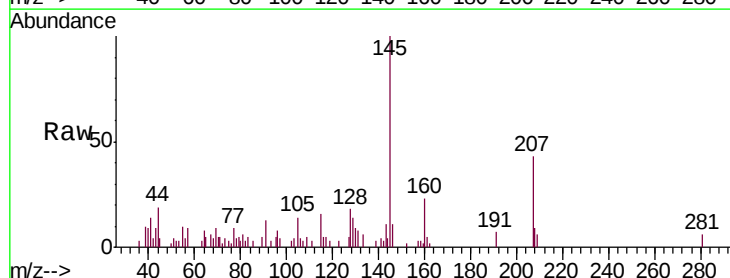
Tgt Ion: 128 Resp: 1673

Ion Ratio Lower Upper

128 100

127 59.2 10.4 15.6#

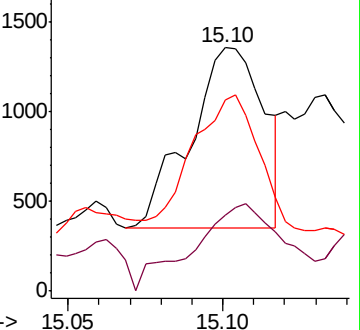
129 66.7 8.8 13.2#



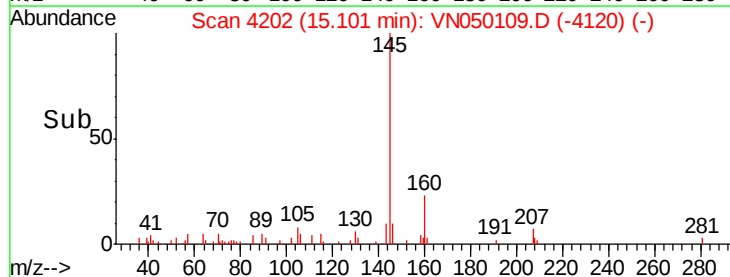
Abundance Ion 128.00 (127.70 to 128.70): VN050018.D (-4197) (-)

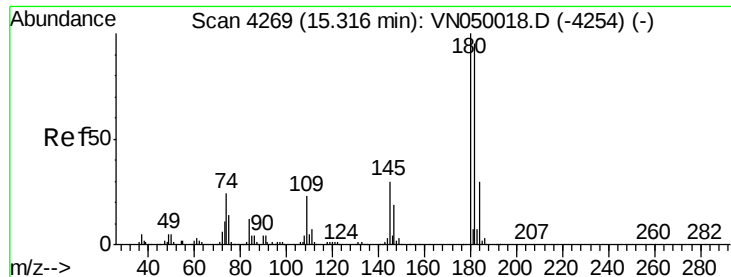
Ion 127.00 (126.70 to 127.70): VN050018.D (-4197) (-)

Ion 129.00 (128.70 to 129.70): VN050018.D (-4197) (-)



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 2.23 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. -0.00 min
 Lab File: VN050109.D
 Acq: 27 Jul 2018 3:15

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13

Tot Ion	Ratio	Lower	Upper
180	100		
182	64.3	48.1	144.4
145	5074.7	15.3	45.9#

