

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054352.D
 Acq On : 16 Mar 2019 22:14
 Operator : JC/SP
 Sample : K1899-01DL2 200X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1ADL2

Quant Time: Mar 18 04:56:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1880280	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2719677	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2281719	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	885240	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	916442	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
35) Dibromofluoromethane	7.59	113	824481	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	10.09	98	3115971	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
62) 4-Bromofluorobenzene	12.40	95	944140	41.65	ug/l	0.00
Spiked Amount			Recovery	=	83.30%	

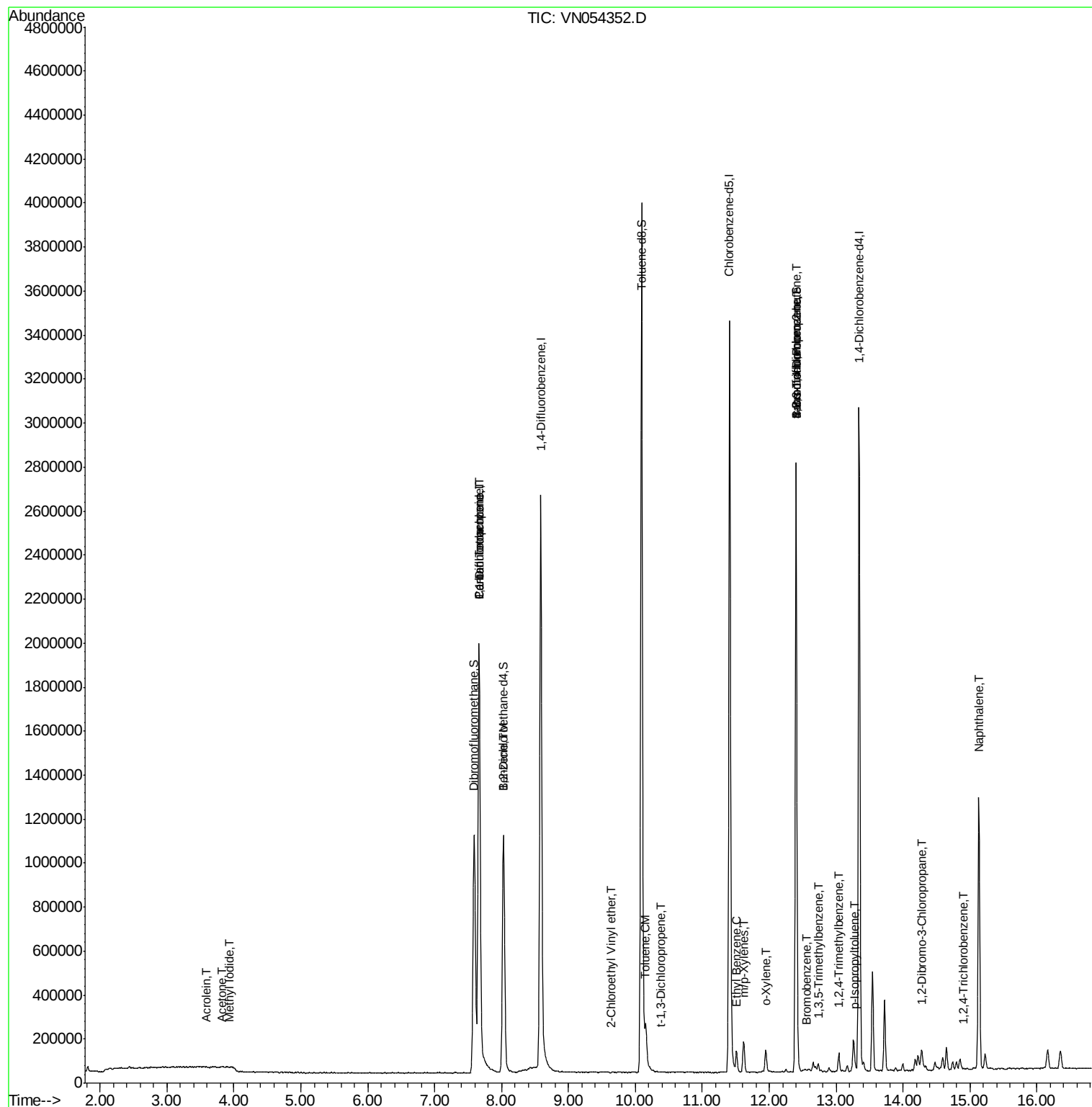
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.93	142	613	1.518	ug/l #	85
13) Acrolein	3.60	56	709	0.547	ug/l #	30
16) Acetone	3.83	43	7411	1.296	ug/l	92
31) Cyclohexane	7.66	56	27997	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	112294	4.484	ug/l #	48
38) Carbon Tetrachloride	7.67	117	155301	5.913	ug/l #	16
40) Benzene	8.04	78	80399	1.122	ug/l	98
52) Toluene	10.16	92	67070	1.476	ug/l	96
53) t-1,3-Dichloropropene	10.37	75	157	1.991	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.63	63	89	16.838	ug/l #	44
67) Ethyl Benzene	11.51	91	65610	0.790	ug/l	96
68) m/p-Xylenes	11.62	106	47725	1.470	ug/l	97
69) o-Xylene	11.95	106	29431	0.930	ug/l	98
71) Bromoform	12.40	173	6317	2.785	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	459461	35.295	ug/l #	100
77) Bromobenzene	12.55	156	6693	0.357	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.73	105	14476	0.246	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	459461	120.653	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	49208	0.851	ug/l	98
86) p-Isopropyltoluene	13.28	119	23338	0.378	ug/l #	68
92) 1,2-Dibromo-3-Chloropropan	14.27	75	2033	0.871	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	1082	2.572	ug/l	84
95) Naphthalene	15.13	128	1126701	30.475	ug/l	100

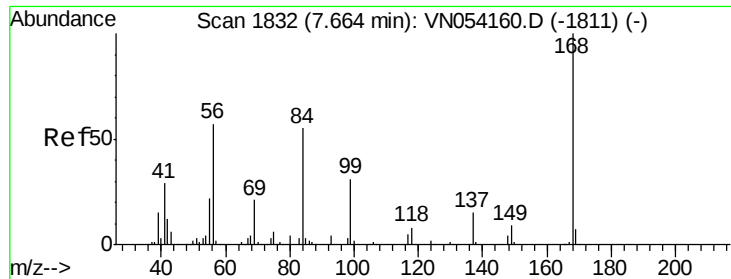
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
MW-1ADL2

Quant Time: Mar 18 04:56:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

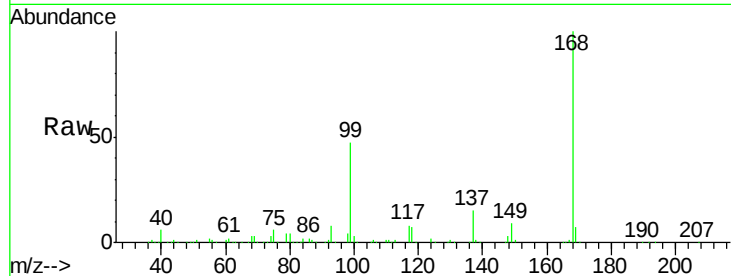
MW-1ADL2

Tot Ion:168 Resp: 1880280

Ion Ratio Lower Upper

168 100

99 47.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

800000

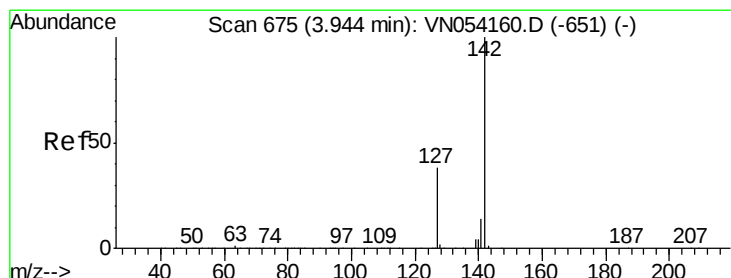
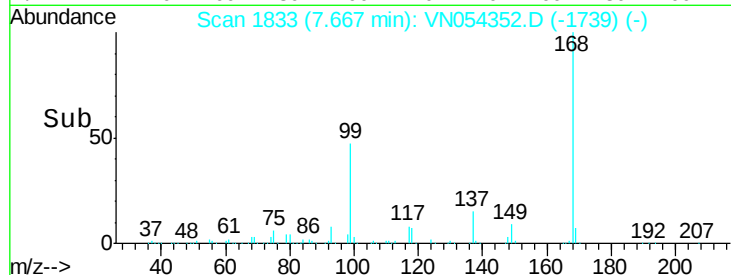
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.518 ug/l

RT: 3.93 min Scan# 672

Delta R.T. -0.01 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

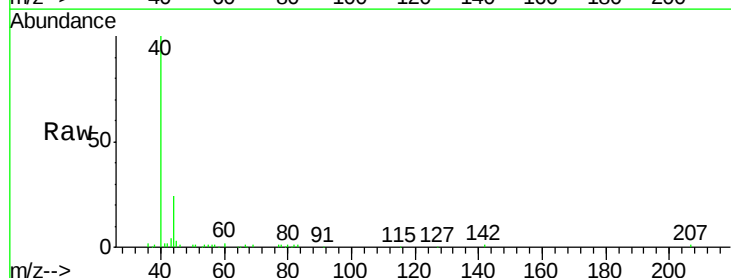
Tgt Ion:142 Resp: 613

Ion Ratio Lower Upper

142 100

127 33.4 30.3 45.5

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.93

500

400

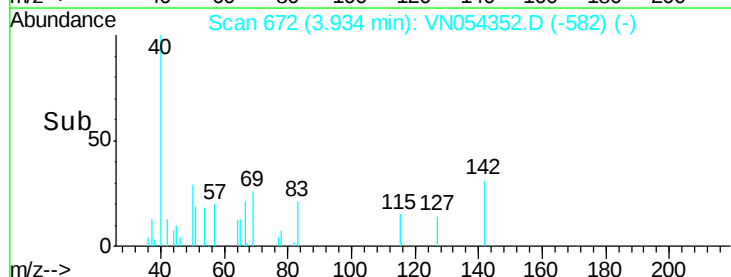
300

200

100

0

Time-->

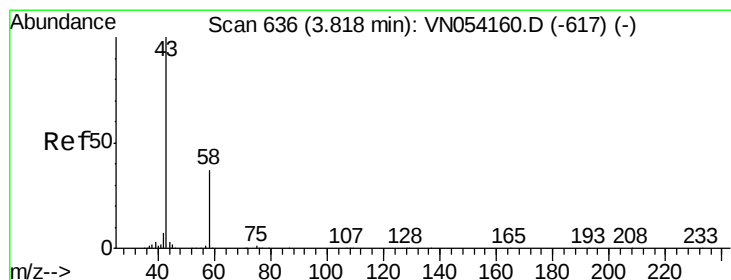
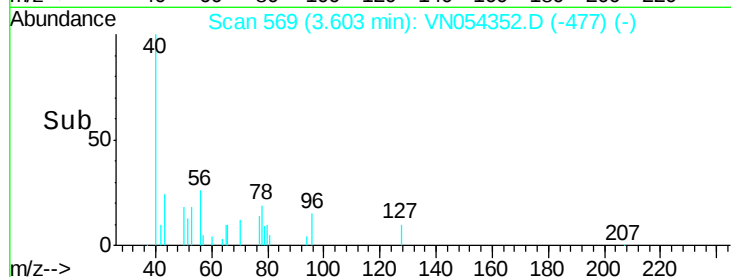
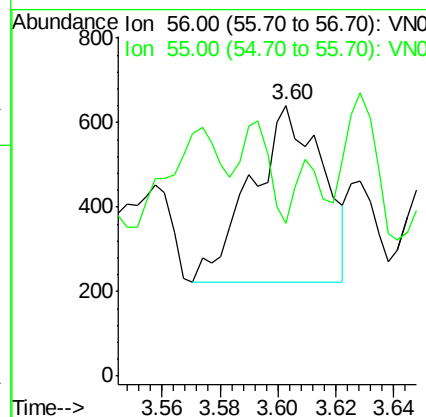
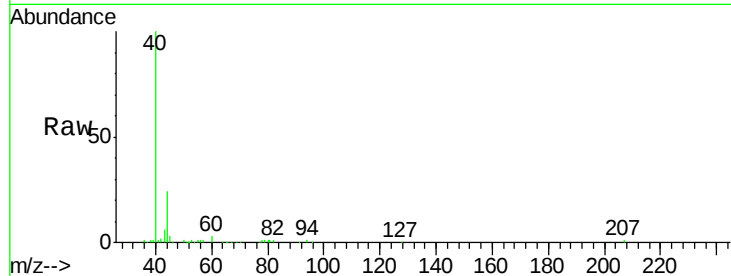




#13
Acrolein
Concen: 0.547 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.00 min
Lab File: VN054352.D
Acq: 16 Mar 2019 22:14

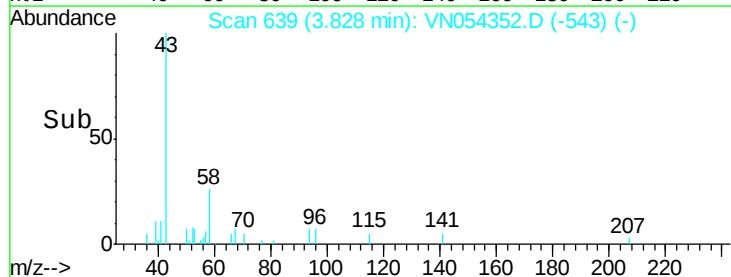
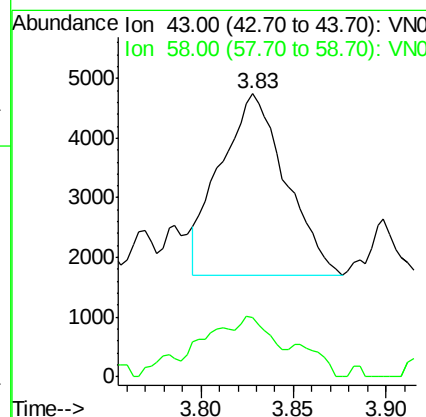
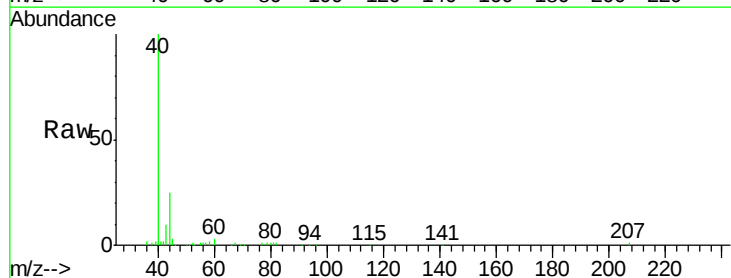
Instrument :
MSVOA_N
ClientSampleId :
MW-1ADL2

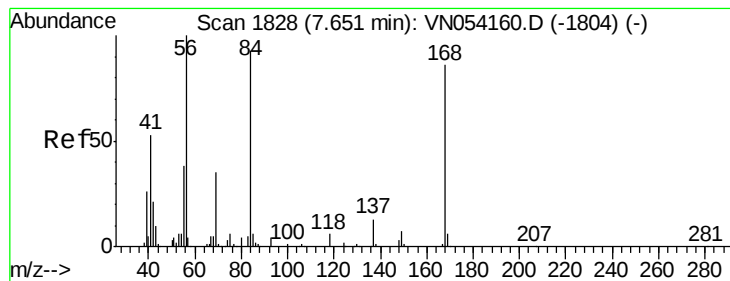
Tot Ion: 56 Resp: 709
Ion Ratio Lower Upper
56 100
55 12.8 56.7 85.1#



#16
Acetone
Concen: 1.296 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054352.D
Acq: 16 Mar 2019 22:14

Tgt Ion: 43 Resp: 7411
Ion Ratio Lower Upper
43 100
58 32.6 29.9 44.9





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

MW-1ADL2

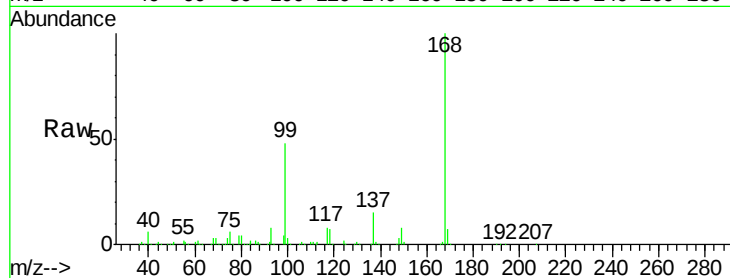
Tot Ion: 56 Resp: 27997

Ion Ratio Lower Upper

56 100

69 201.4 27.8 41.6#

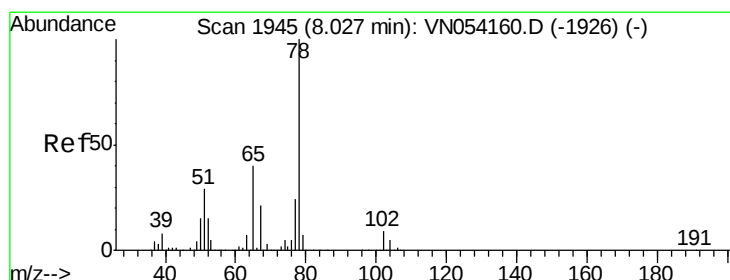
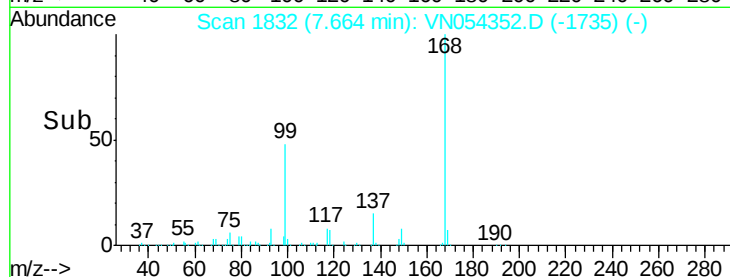
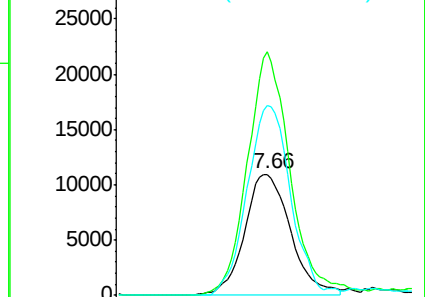
84 156.9 74.6 111.8#



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: 45.894 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054352.D

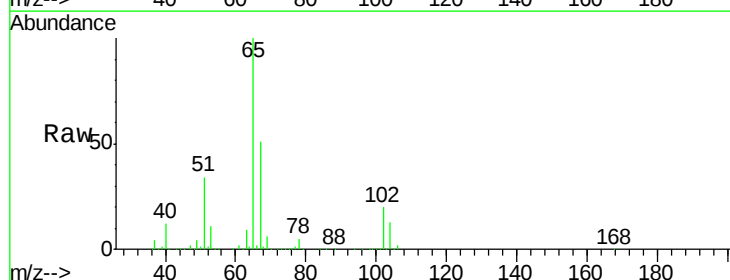
Acq: 16 Mar 2019 22:14

Tgt Ion: 65 Resp: 916442

Ion Ratio Lower Upper

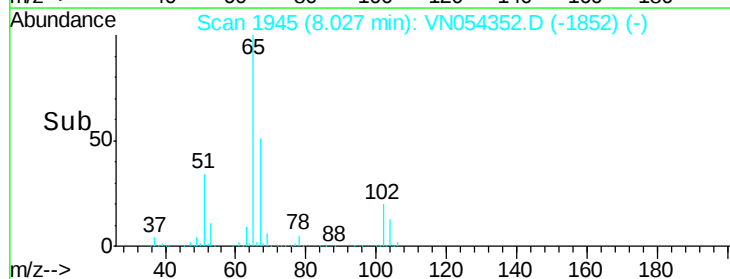
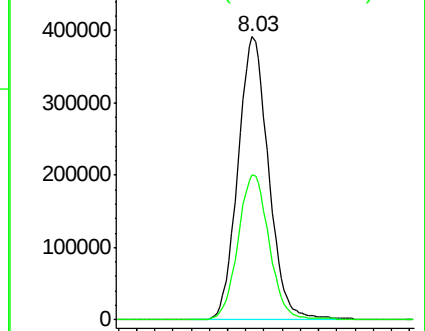
65 100

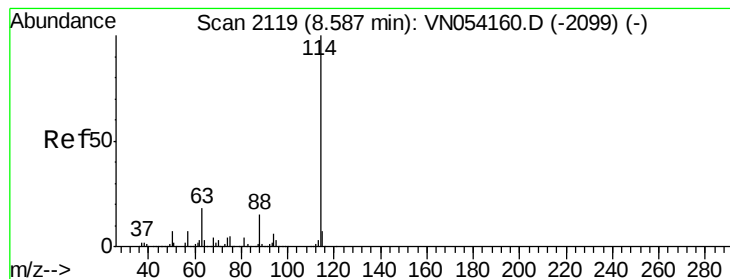
67 52.3 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

MW-1ADL2

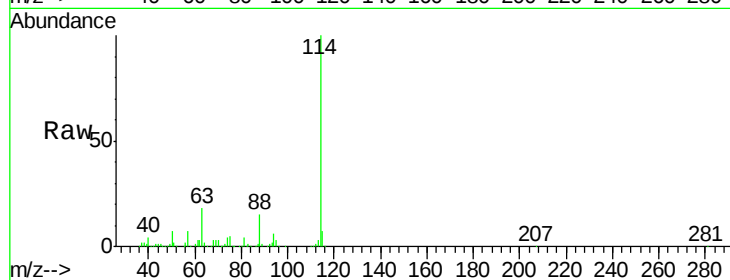
Tot Ion:114 Resp: 2719677

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.2

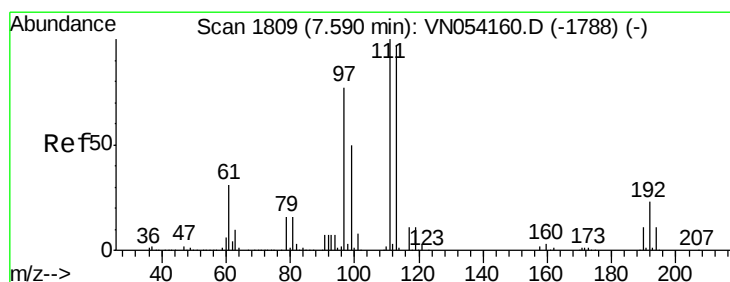
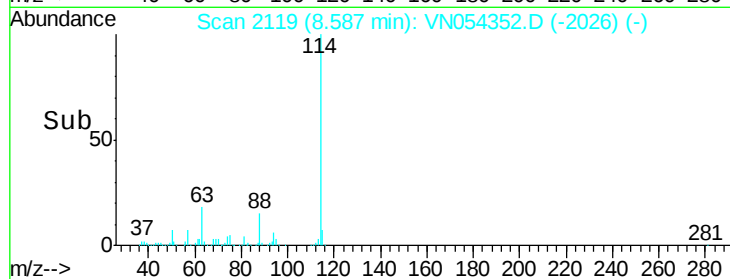
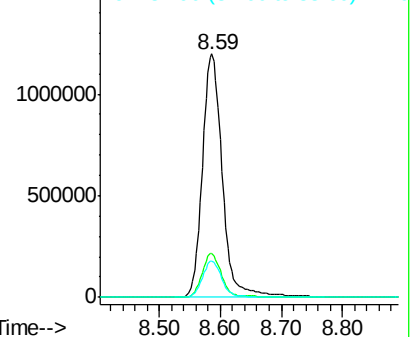
88 15.1 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 47.004 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

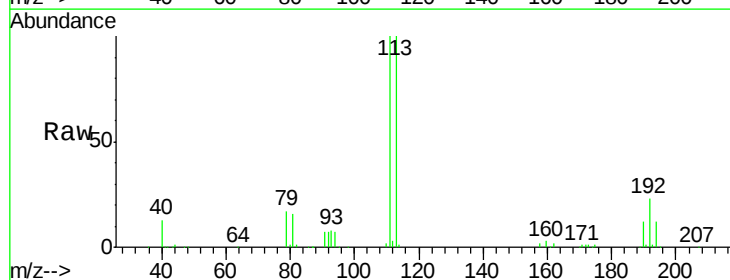
Tgt Ion:113 Resp: 824481

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

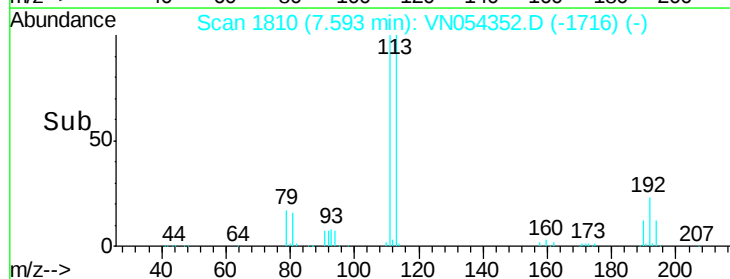
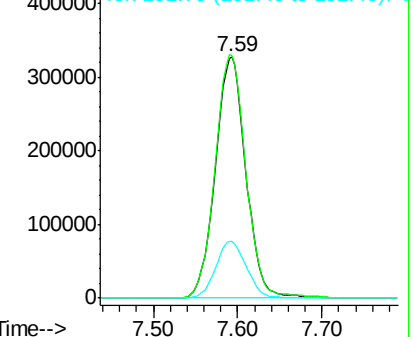
192 23.5 19.2 28.8

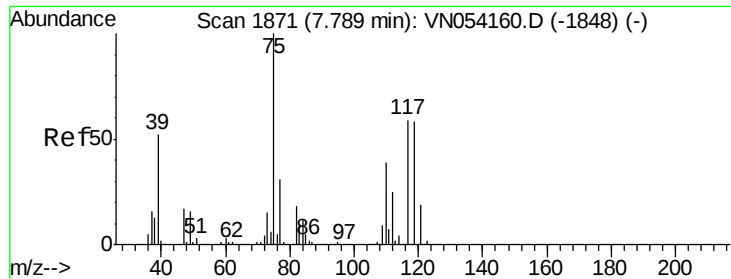


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

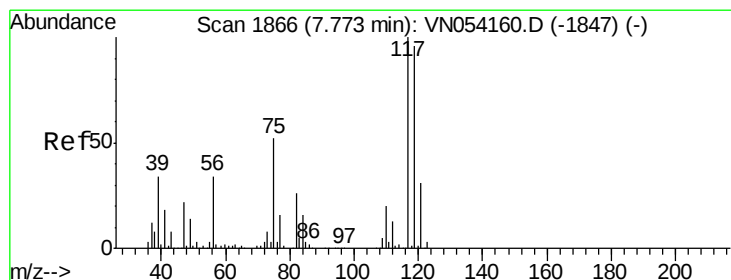
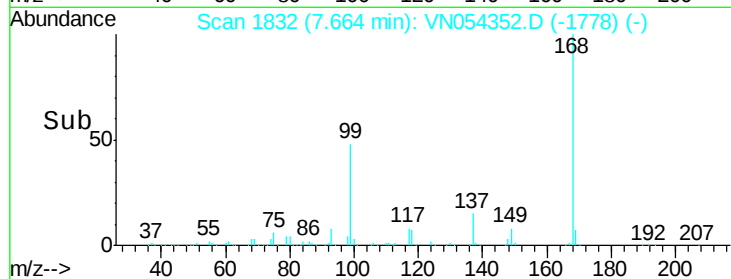
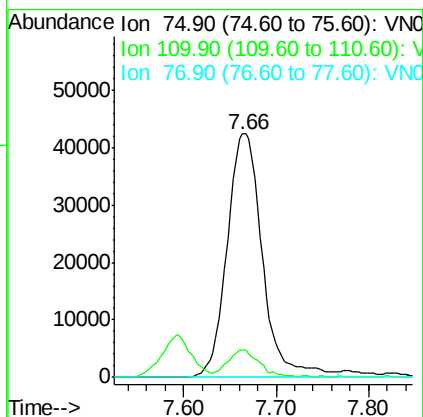
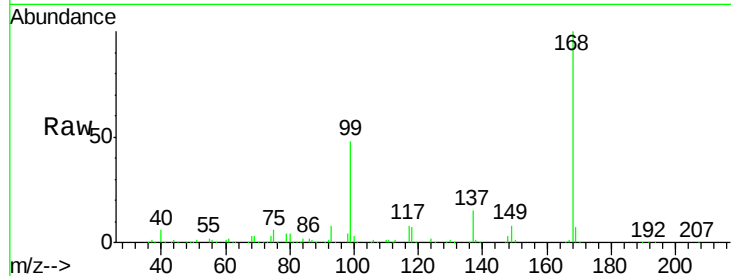




#36
 1,1-Dichloropropene
 Concen: 4.484 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054352.D
 Acq: 16 Mar 2019 22:14

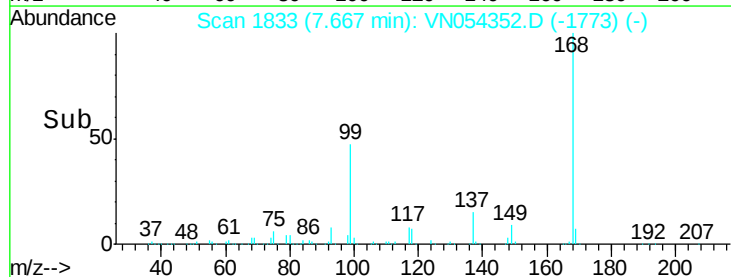
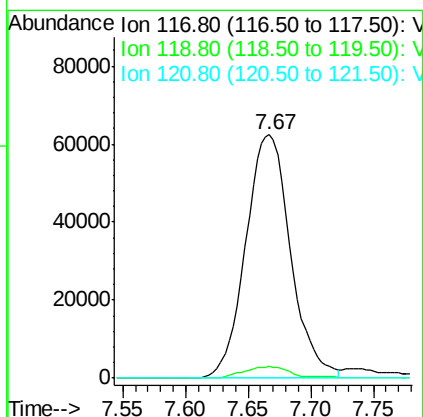
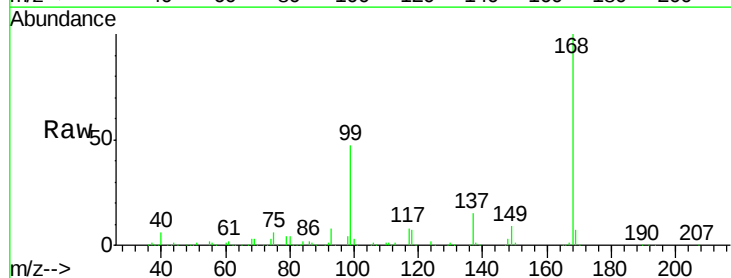
Instrument :
 MSVOA_N
 ClientSampled :
 MW-1ADL2

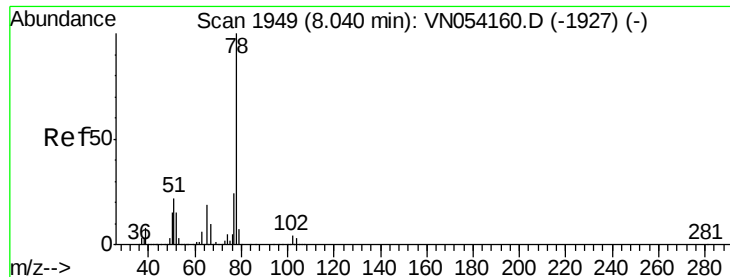
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.913 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054352.D
 Acq: 16 Mar 2019 22:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.3	114.5#
121	0.0	24.6	36.8#





#40

Benzene

Concen: 1.122 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. -0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

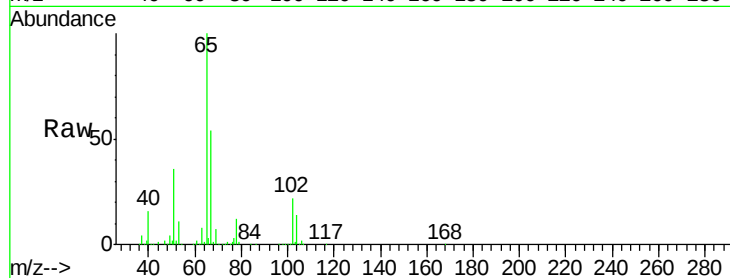
MW-1ADL2

Tot Ion: 78 Resp: 80399

Ion Ratio Lower Upper

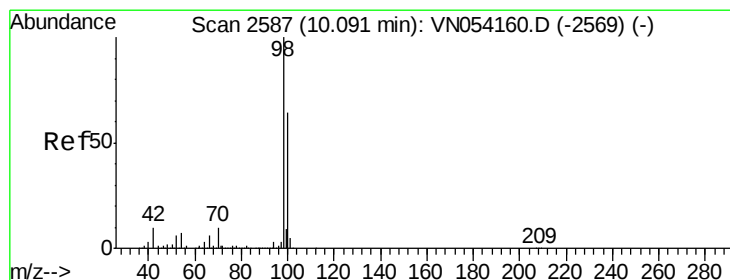
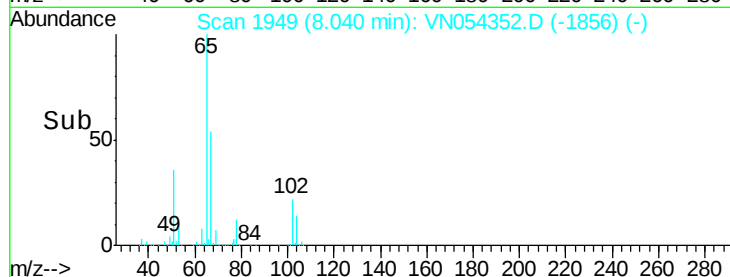
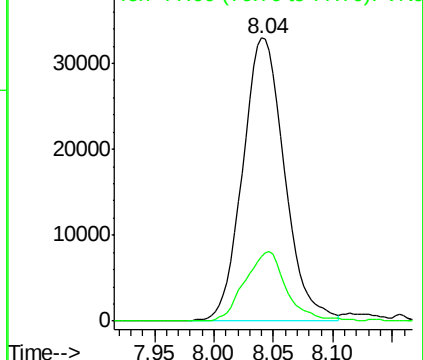
78 100

77 22.7 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 48.100 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054352.D

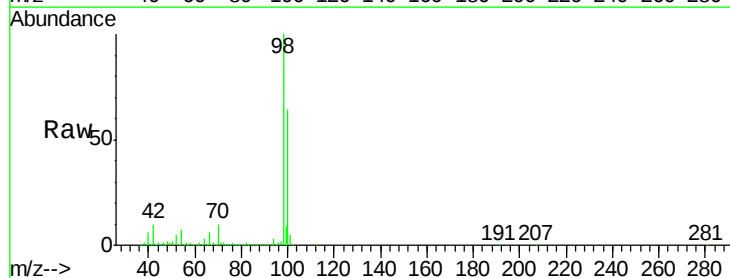
Acq: 16 Mar 2019 22:14

Tgt Ion: 98 Resp: 3115971

Ion Ratio Lower Upper

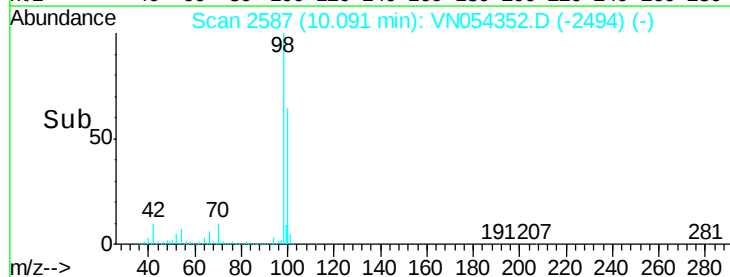
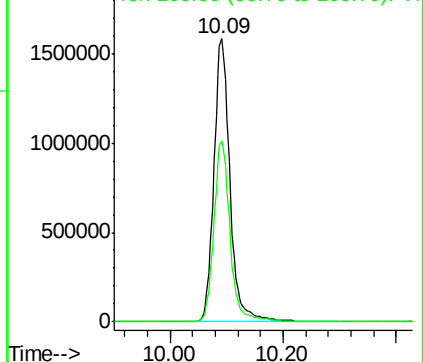
98 100

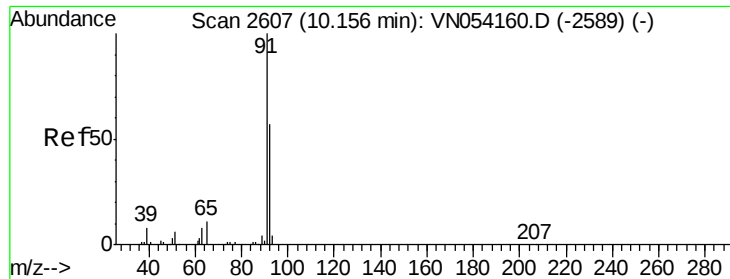
100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 1.476 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

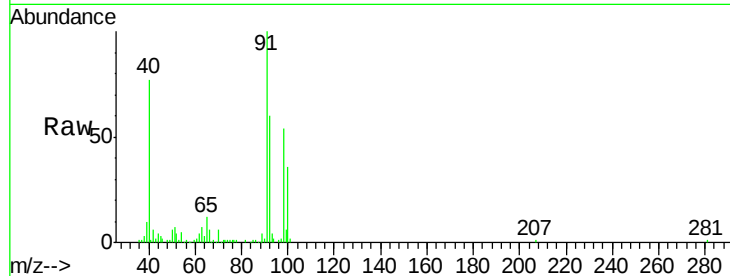
MW-1ADL2

Tot Ion: 92 Resp: 67070

Ion Ratio Lower Upper

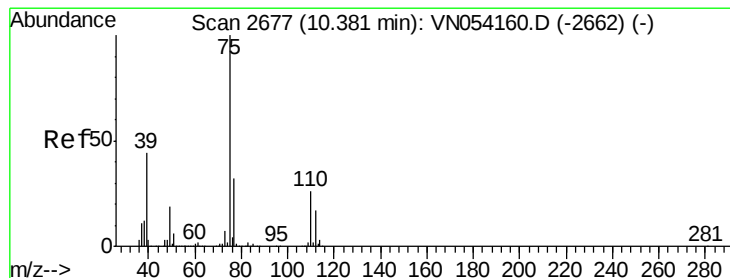
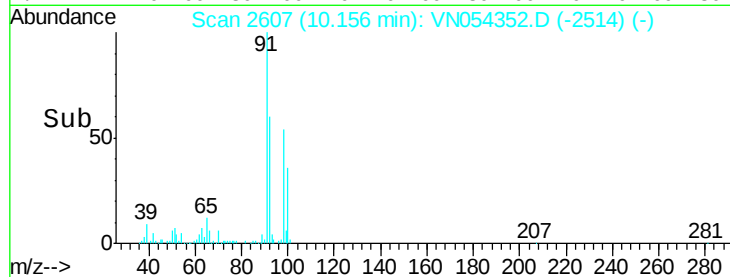
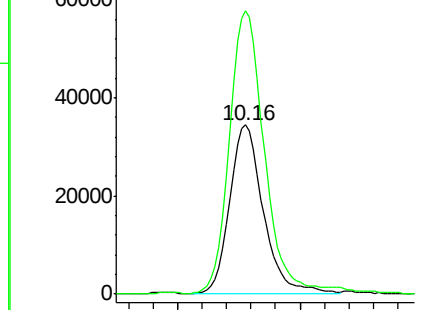
92 100

91 170.1 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 1.991 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.01 min

Lab File: VN054352.D

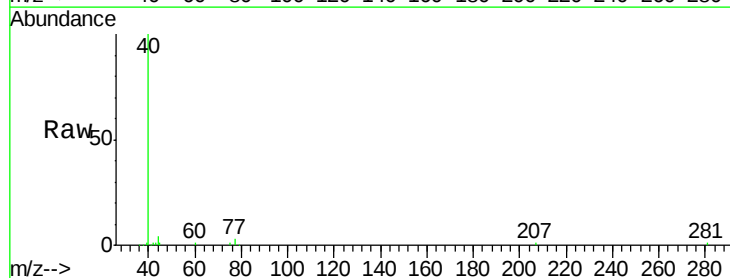
Acq: 16 Mar 2019 22:14

Tgt Ion: 75 Resp: 157

Ion Ratio Lower Upper

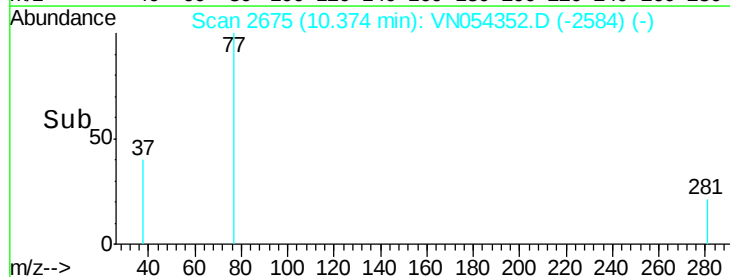
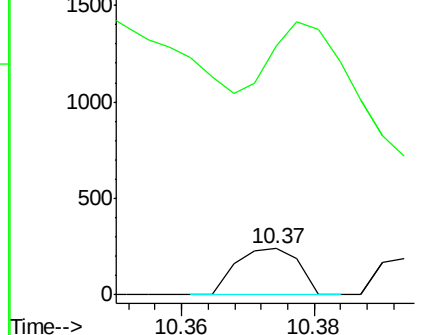
75 100

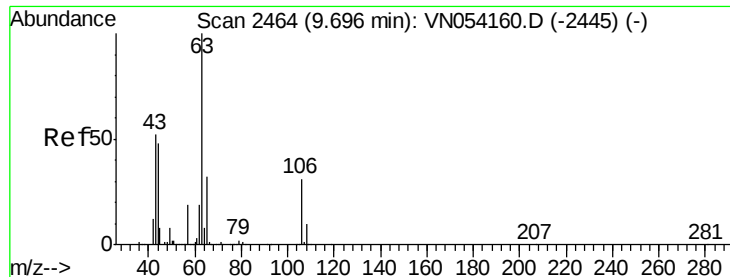
77 31.3 25.8 38.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 16.838 ug/l

RT: 9.63 min Scan# 2443

Delta R.T. -0.07 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampled :

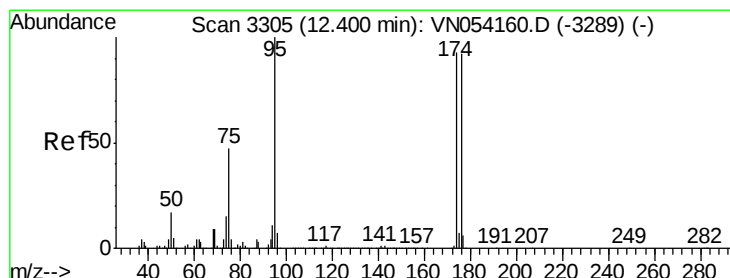
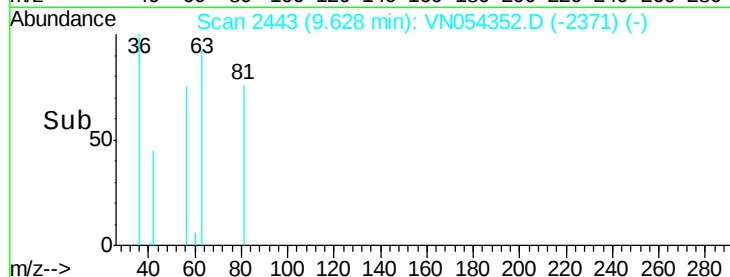
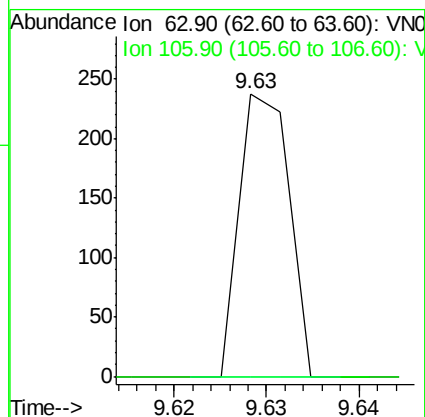
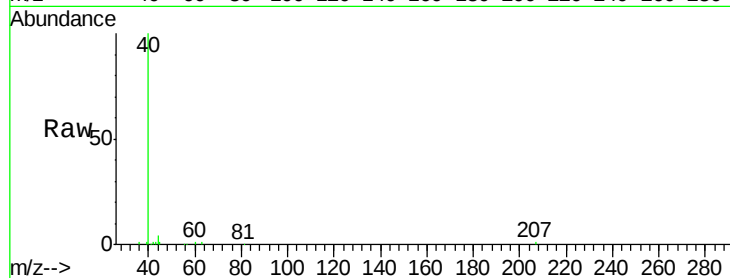
MW-1ADL2

Tot Ion: 63 Resp: 89

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#



#62

4-Bromofluorobenzene

Concen: 41.653 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

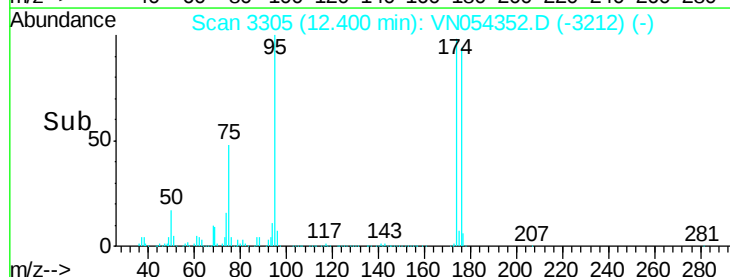
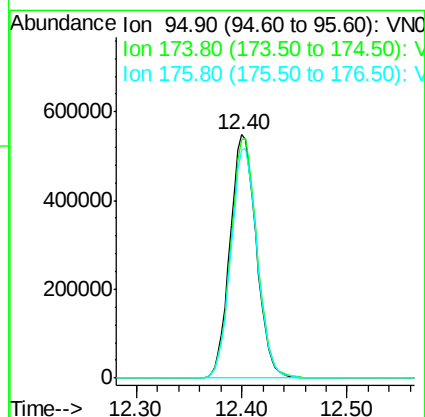
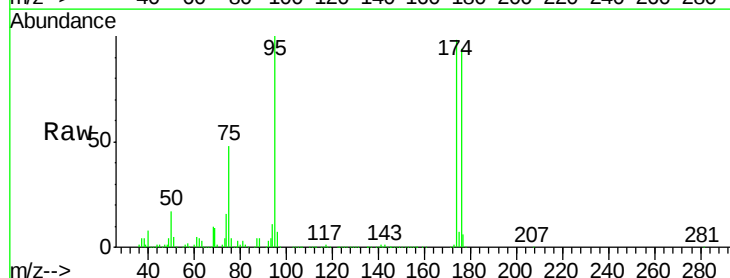
Tgt Ion: 95 Resp: 944140

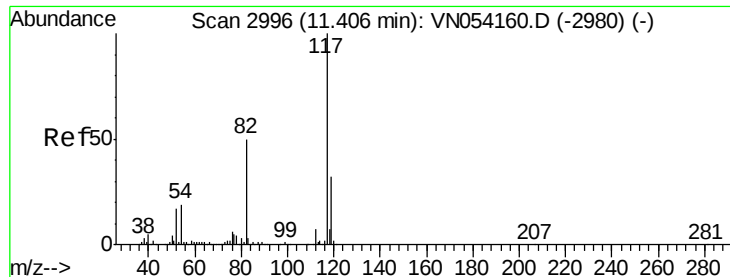
Ion Ratio Lower Upper

95 100

174 98.8 0.0 191.0

176 94.7 0.0 187.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

MW-1ADL2

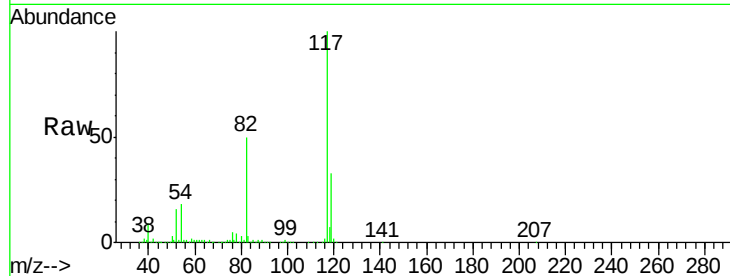
Tot Ion:117 Resp: 2281719

Ion Ratio Lower Upper

117 100

82 50.4 40.0 60.0

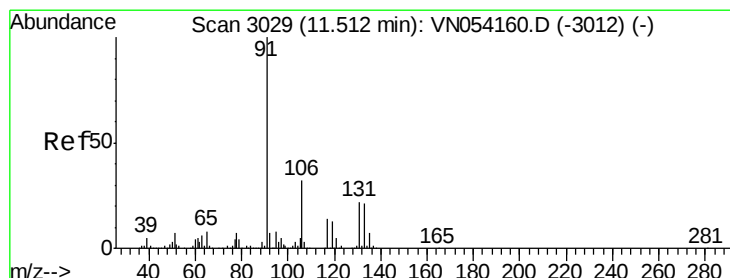
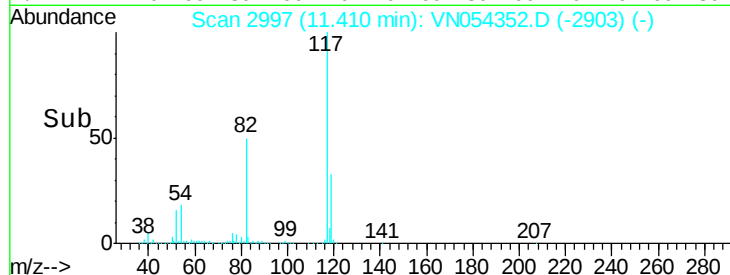
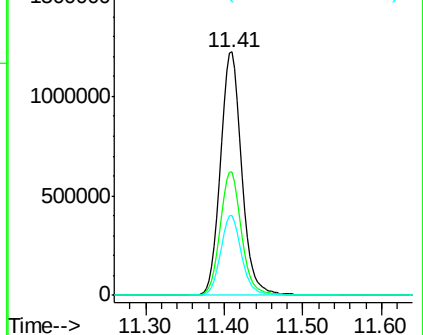
119 32.7 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 0.790 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN054352.D

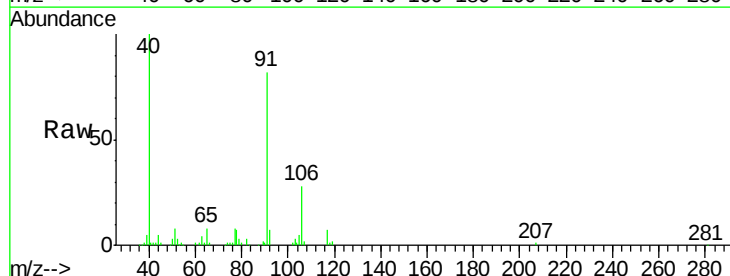
Acq: 16 Mar 2019 22:14

Tgt Ion: 91 Resp: 65610

Ion Ratio Lower Upper

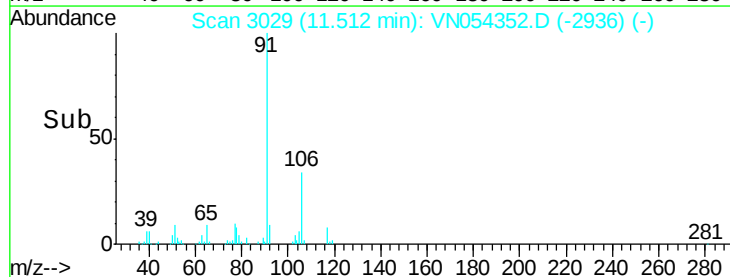
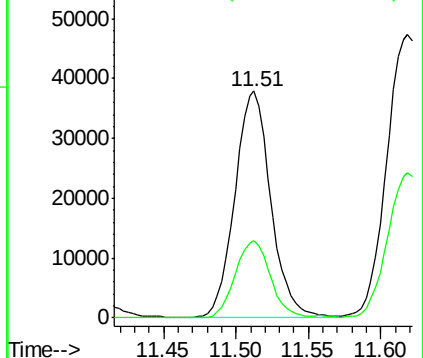
91 100

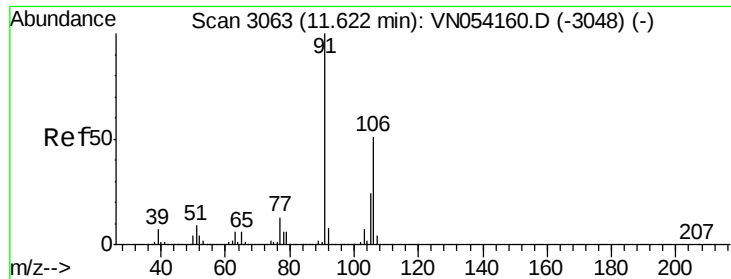
106 34.2 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

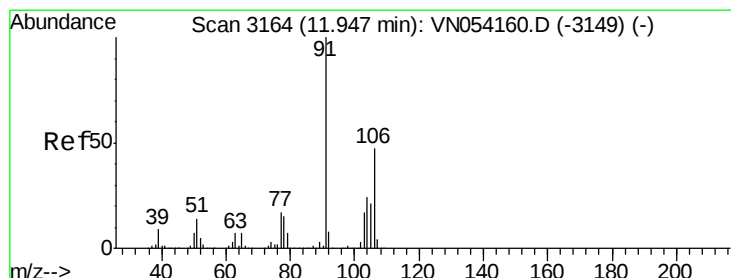
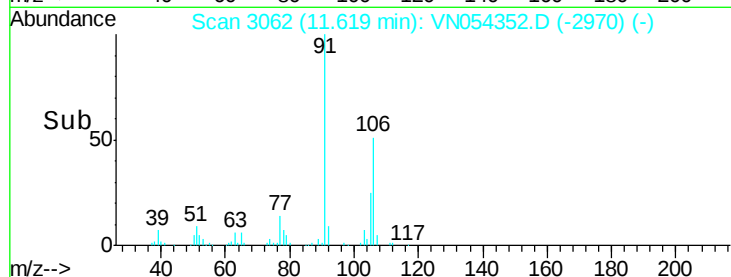
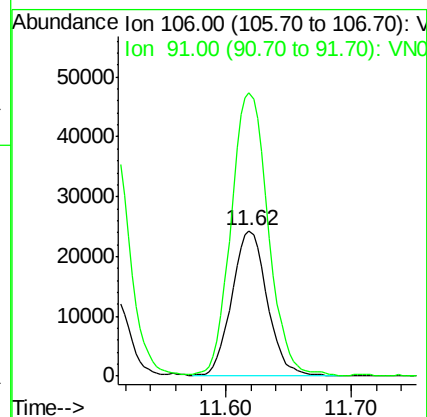
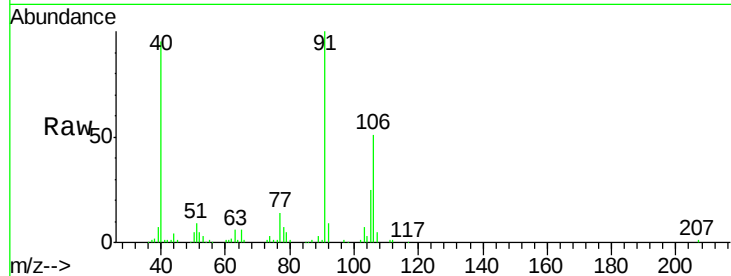




#68
m/p-Xylenes
Concen: 1.470 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054352.D
Acq: 16 Mar 2019 22:14

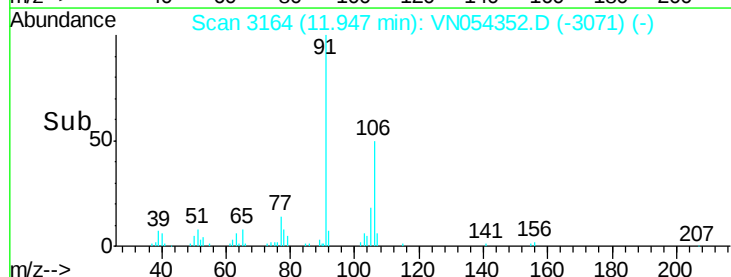
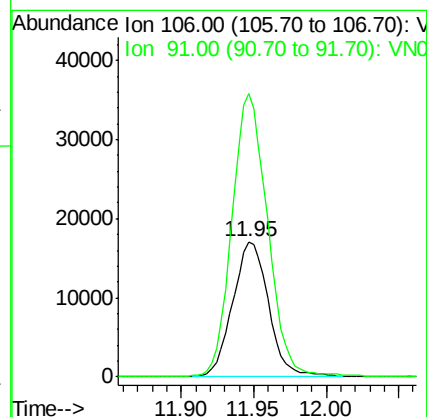
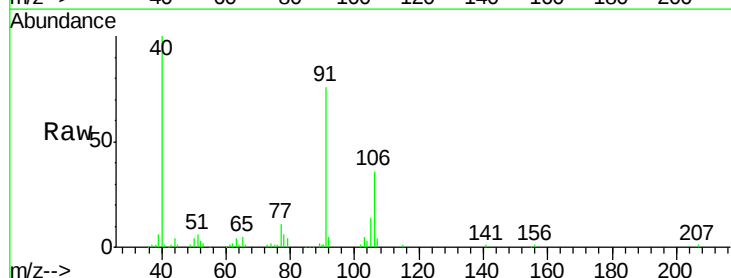
Instrument :
MSVOA_N
ClientSampled :
MW-1ADL2

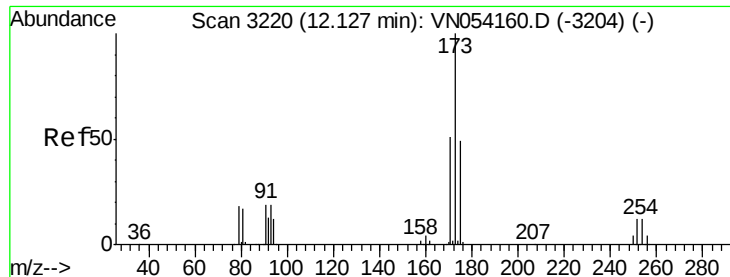
Tot Ion:106 Resp: 47725
Ion Ratio Lower Upper
106 100
91 204.5 159.4 239.2



#69
o-Xylene
Concen: 0.930 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054352.D
Acq: 16 Mar 2019 22:14

Tgt Ion:106 Resp: 29431
Ion Ratio Lower Upper
106 100
91 208.5 105.7 317.1

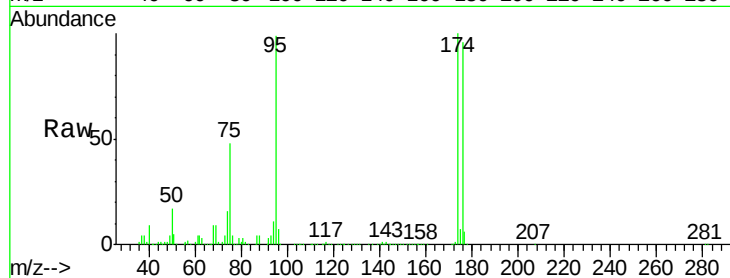




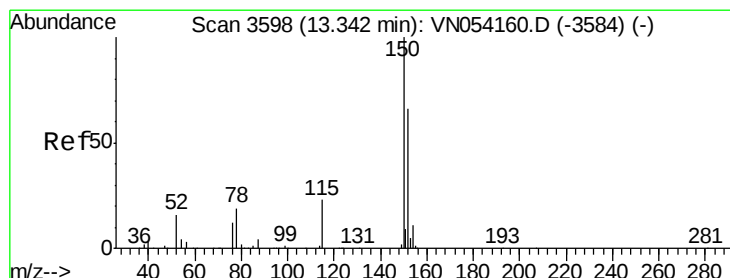
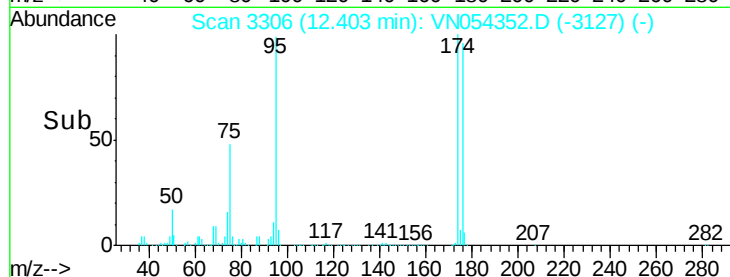
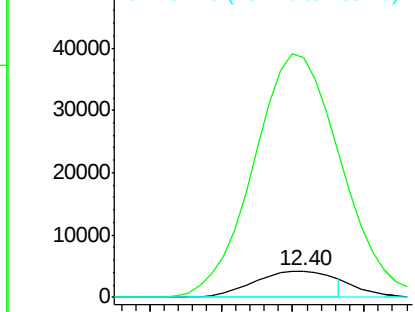
#71
Bromoform
Concen: 2.785 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054352.D
Acq: 16 Mar 2019 22:14

Instrument :
MSVOA_N
ClientSampled :
MW-1ADL2

Tot Ion:173 Resp: 6317
Ion Ratio Lower Upper
173 100
175 908.8 24.4 73.2#
254 0.0 0.1 0.1#

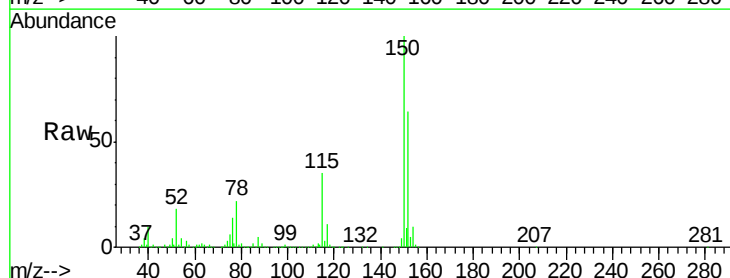


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

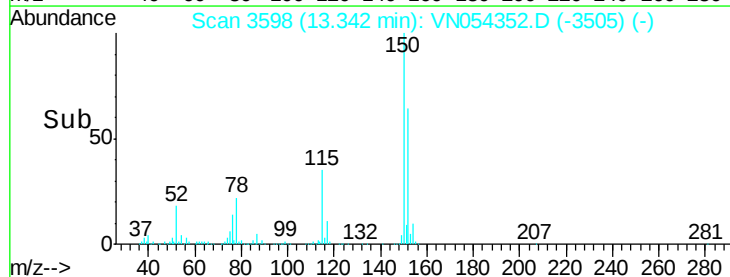
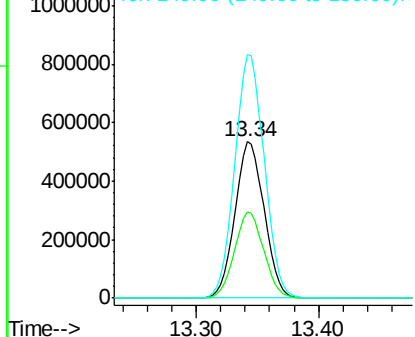


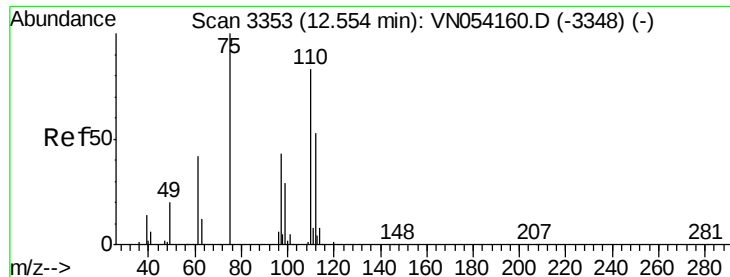
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054352.D
Acq: 16 Mar 2019 22:14

Tgt Ion:152 Resp: 885240
Ion Ratio Lower Upper
152 100
115 55.0 27.2 81.6
150 157.5 0.0 349.2



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





#76

1,2,3-Trichloropropane

Concen: 35.295 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

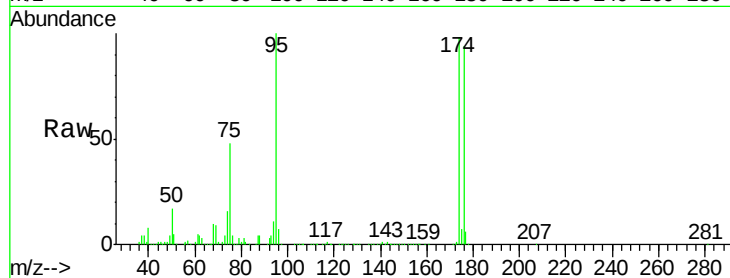
MW-1ADL2

Tot Ion: 75 Resp: 459461

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

250000

200000

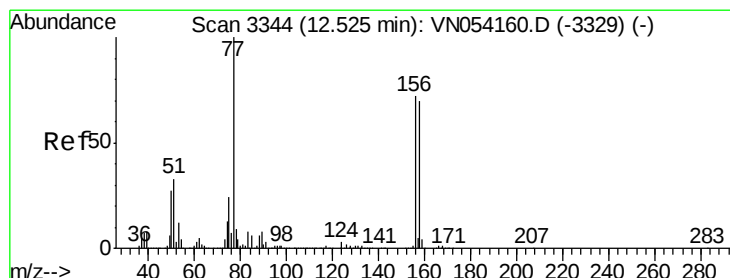
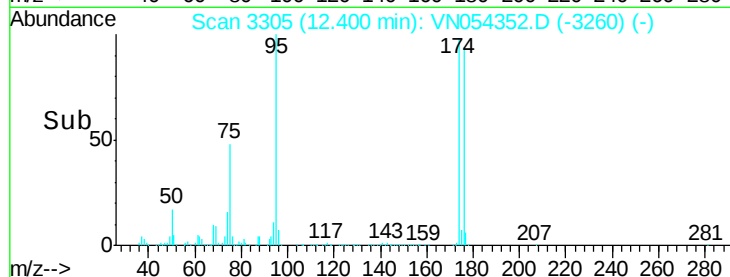
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#77

Bromobenzene

Concen: 0.357 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.03 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

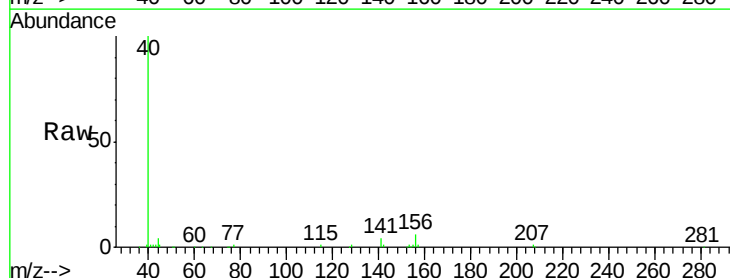
Tgt Ion: 156 Resp: 6693

Ion Ratio Lower Upper

156 100

77 2.7 81.5 244.4#

158 0.0 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

12.55

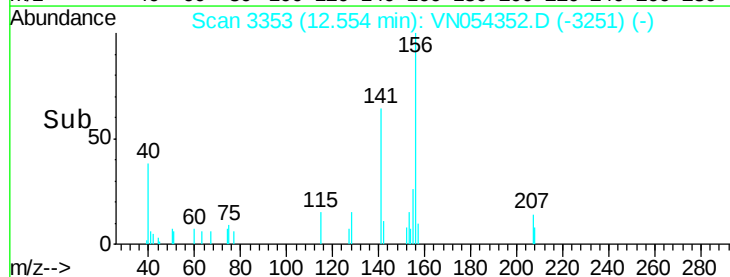
3000

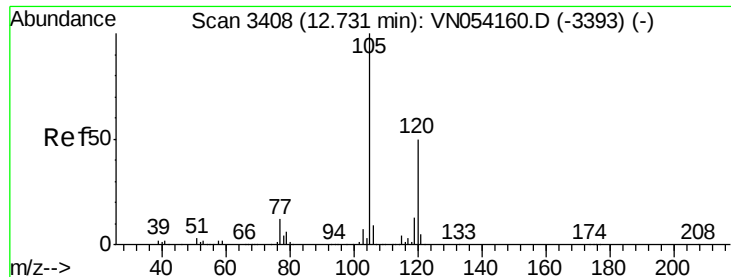
2000

1000

0

Time--> 12.45 12.50 12.55

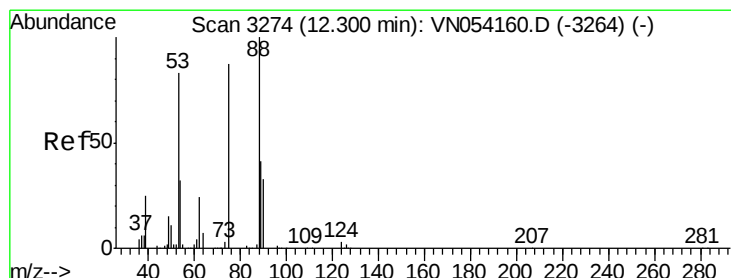
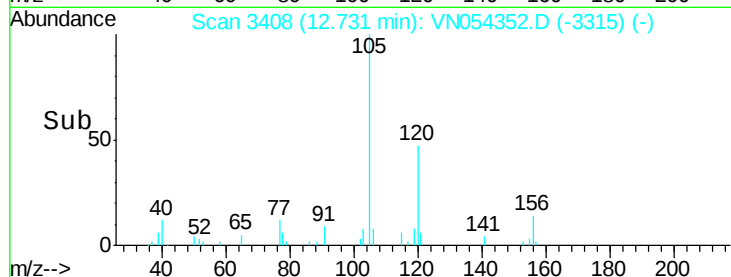
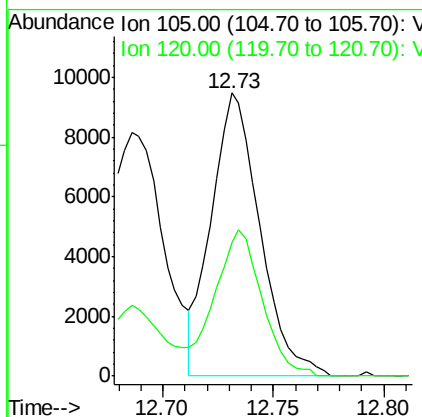
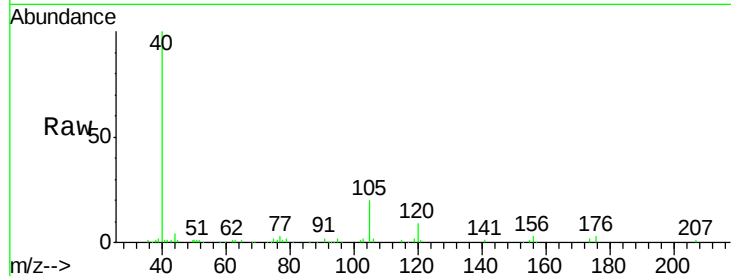




#80
 1,3,5-Trimethylbenzene
 Concen: 0.246 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN054352.D
 Acq: 16 Mar 2019 22:14

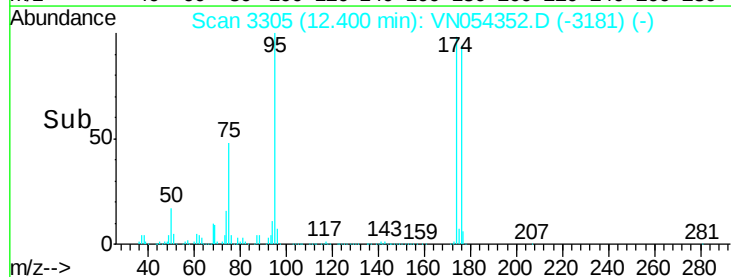
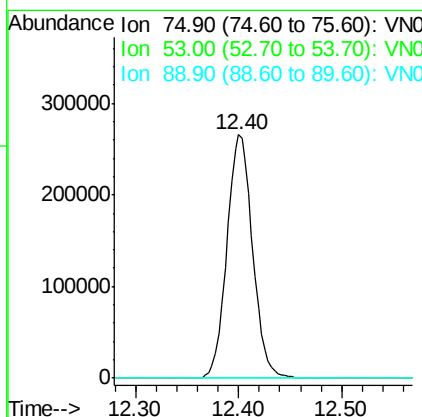
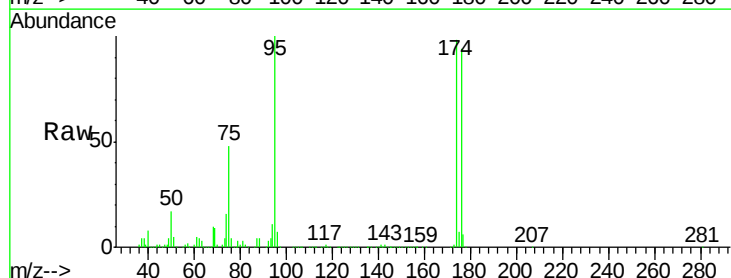
Instrument :
 MSVOA_N
 ClientSampled :
 MW-1ADL2

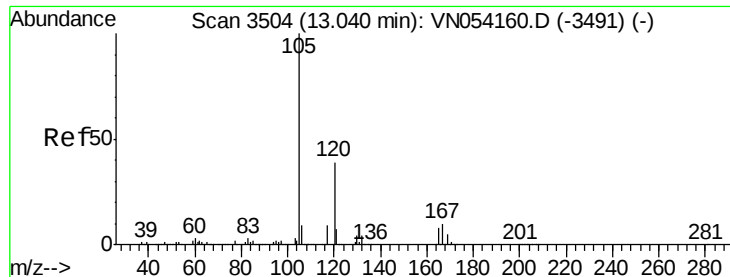
Tot Ion:105 Resp: 14476
 Ion Ratio Lower Upper
 105 100
 120 51.4 25.0 75.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 120.653 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054352.D
 Acq: 16 Mar 2019 22:14

Tgt Ion: 75 Resp: 459461
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.2 114.2#
 89 0.0 39.2 58.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.851 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

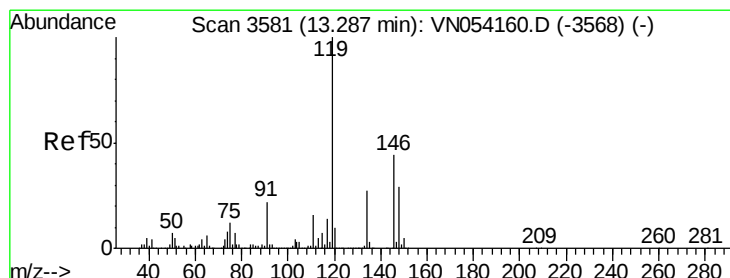
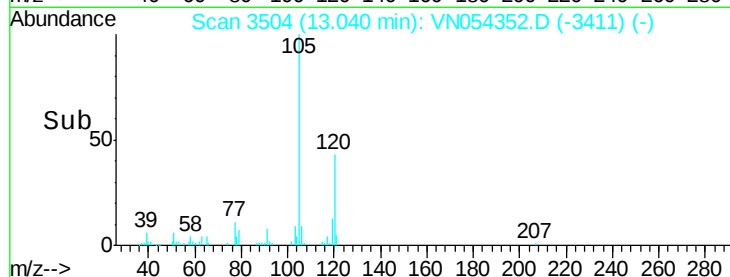
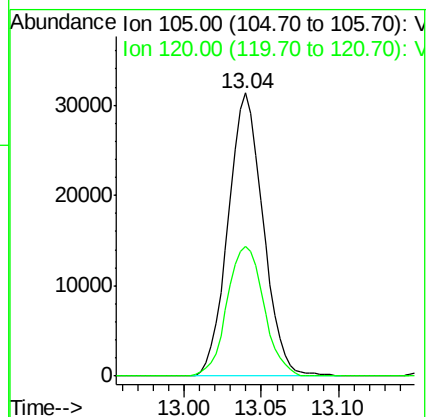
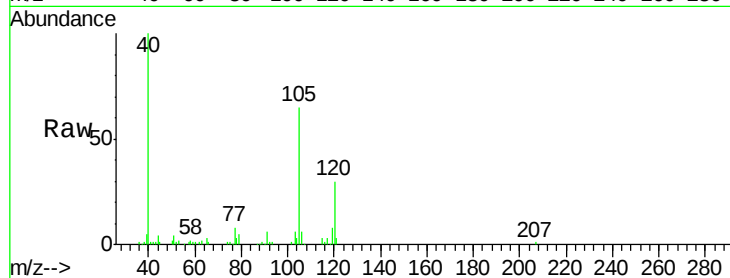
MW-1ADL2

Tot Ion:105 Resp: 49208

Ion Ratio Lower Upper

105 100

120 48.0 23.4 70.3



#86

p-Isopropyltoluene

Concen: 0.378 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

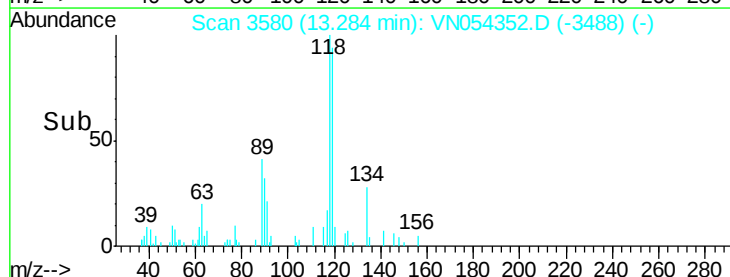
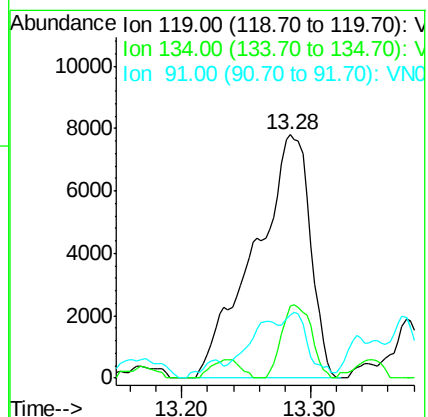
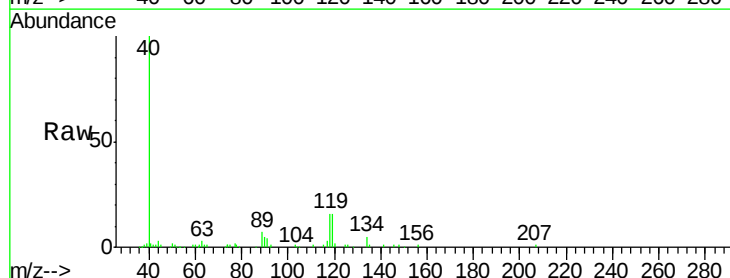
Tgt Ion:119 Resp: 23338

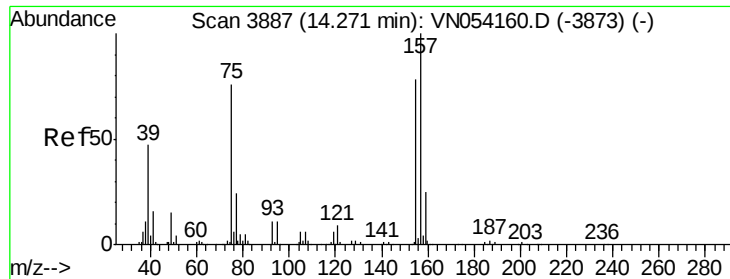
Ion Ratio Lower Upper

119 100

134 16.2 13.6 40.8

91 0.0 11.1 33.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.871 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

Instrument :

MSVOA_N

ClientSampled :

MW-1ADL2

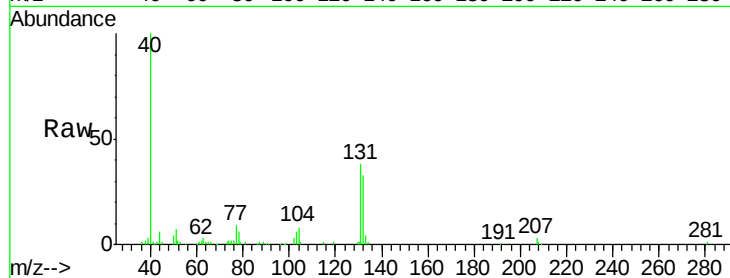
Tot Ion: 75 Resp: 2033

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

157 0.0 63.1 189.3#

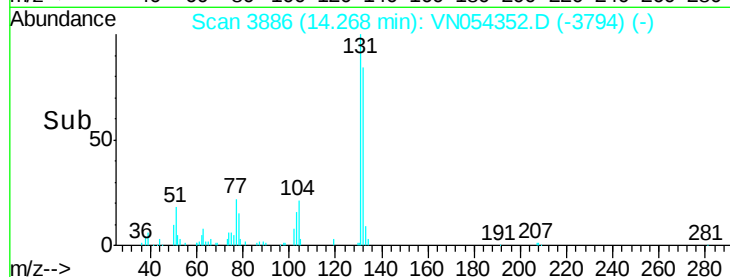


Abundance Ion 74.90 (74.60 to 75.60): VN054160.D (-3873) (-)

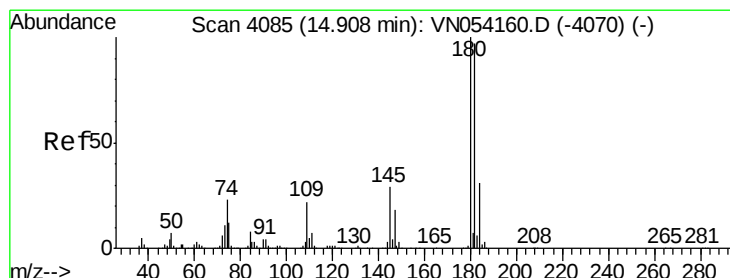
Ion 154.80 (154.50 to 155.50): VN054160.D (-3873) (-)

Ion 156.80 (156.50 to 157.50): VN054160.D (-3873) (-)

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.572 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054352.D

Acq: 16 Mar 2019 22:14

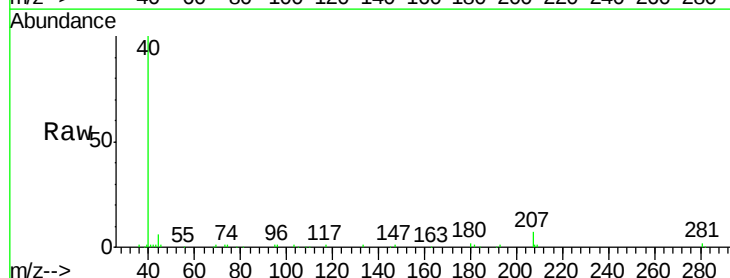
Tgt Ion:180 Resp: 1082

Ion Ratio Lower Upper

180 100

182 80.8 48.0 144.2

145 19.1 14.2 42.8

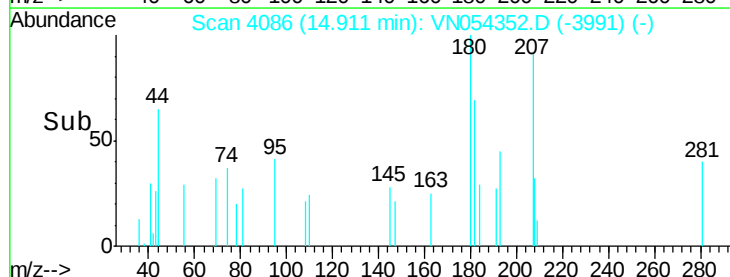


Abundance Ion 179.80 (179.50 to 180.50): VN054160.D (-4070) (-)

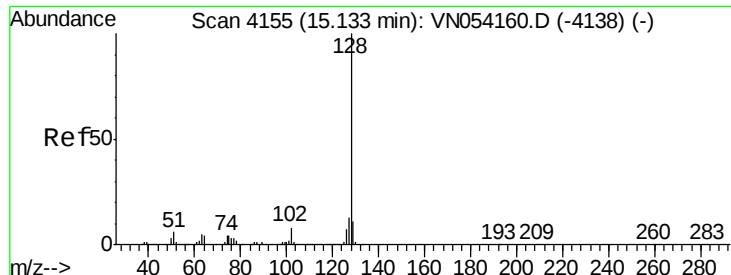
Ion 181.80 (181.50 to 182.50): VN054160.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN054160.D (-4070) (-)

Time-->



Time-->



#95
Naphthalene
Concen: 30.475 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054352.D
Acq: 16 Mar 2019 22:14

Instrument :
MSVOA_N
ClientSampleId :
MW-1ADL2

Tot Ion:128 Resp: 1126701
Ion Ratio Lower Upper
128 100
127 12.7 10.1 15.1
129 10.8 8.7 13.1

