

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN112420\  
 Data File : VN064810.D  
 Acq On : 24 Nov 2020 15:03  
 Operator : JC/MD  
 Sample : L4829-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-13D

Quant Time: Dec 05 22:49:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 172737   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 310156   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 319819   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 149048   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65    | 106460   | 53.01    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 106.02% |
| 35) Dibromofluoromethane  | 7.55   | 113   | 95496    | 51.46    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 102.92% |
| 50) Toluene-d8            | 10.06  | 98    | 385491   | 50.84    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 101.68% |
| 62) 4-Bromofluorobenzene  | 12.38  | 95    | 155677   | 57.37    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 114.74% |

## Target Compounds

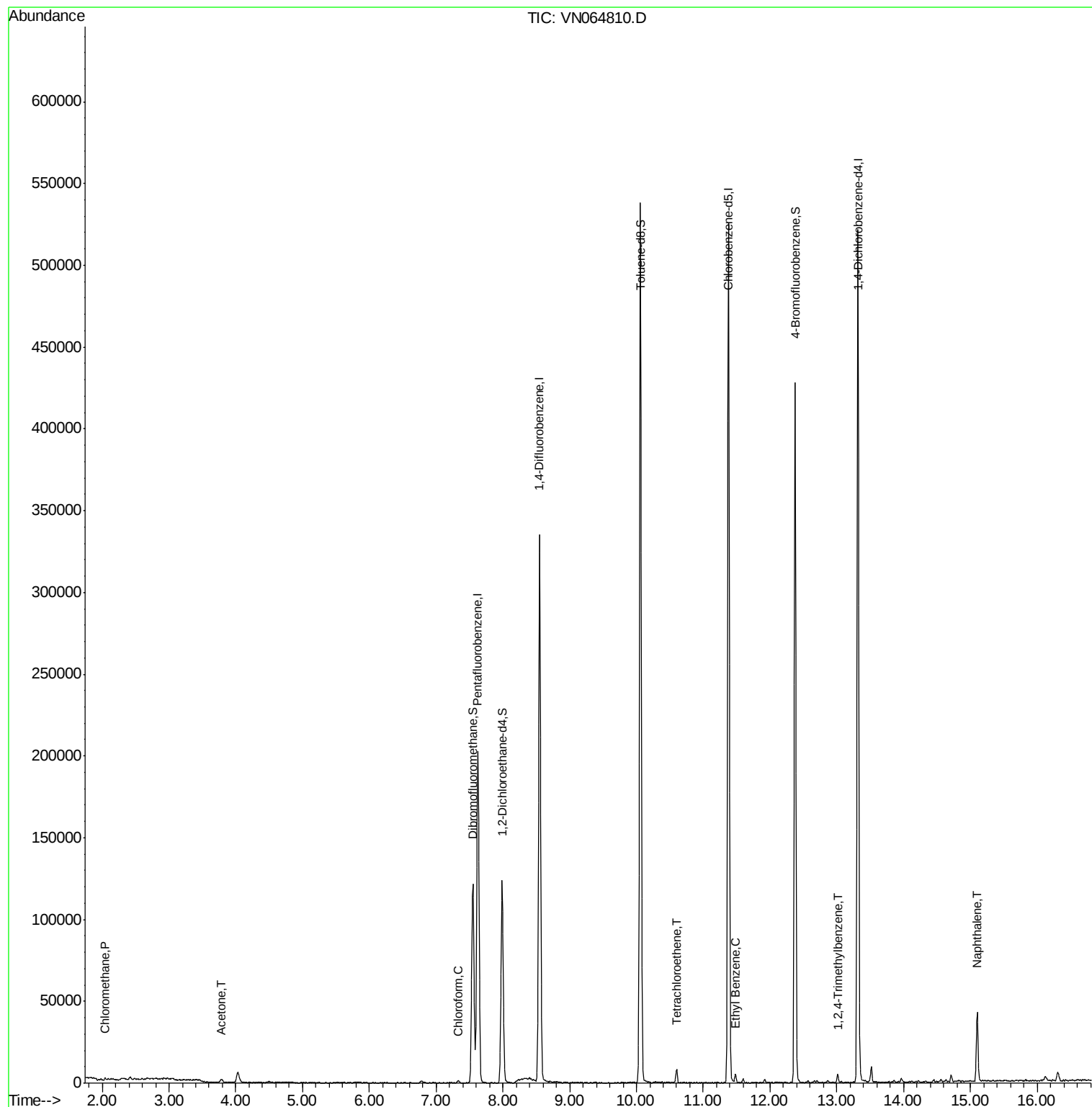
|                            |       |     |       |              | Qvalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane           | 2.04  | 50  | 1007  | 0.518 ug/l # | 74     |
| 16) Acetone                | 3.78  | 43  | 3591  | 5.440 ug/l   | 98     |
| 30) Chloroform             | 7.33  | 83  | 1777  | 0.521 ug/l   | 98     |
| 64) Tetrachloroethene      | 10.61 | 164 | 2044  | 0.657 ug/l # | 84     |
| 67) Ethyl Benzene          | 11.48 | 91  | 4344  | 0.379 ug/l   | 94     |
| 84) 1,2,4-Trimethylbenzene | 13.02 | 105 | 3957  | 0.454 ug/l   | 93     |
| 95) Naphthalene            | 15.10 | 128 | 39942 | 4.420 ug/l   | 99     |

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 23 13:54:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064810.D

Acq: 24 Nov 2020 15:03

Instrument :

MSVOA\_N

ClientSampleId :

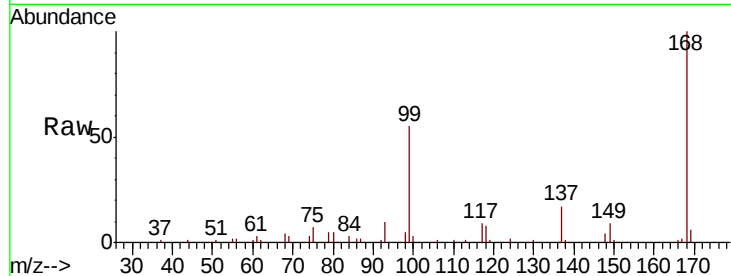
MW-13D

Tot Ion:168 Resp: 172737

Ion Ratio Lower Upper

168 100

99 55.3 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

60000

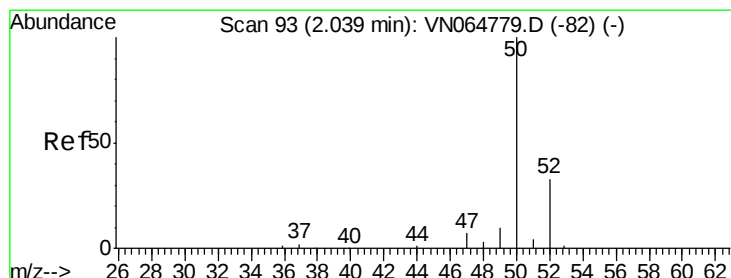
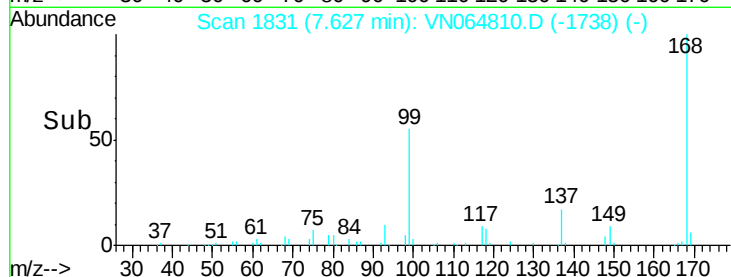
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: 0.518 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064810.D

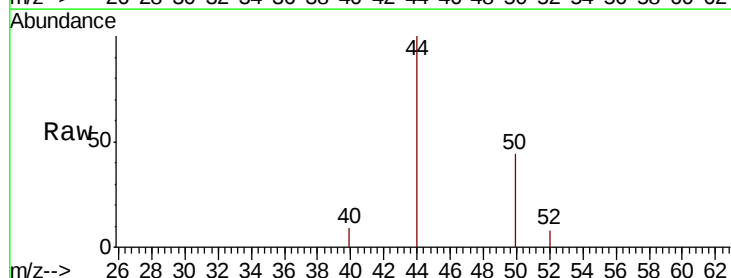
Acq: 24 Nov 2020 15:03

Tgt Ion: 50 Resp: 1007

Ion Ratio Lower Upper

50 100

52 18.2 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

600

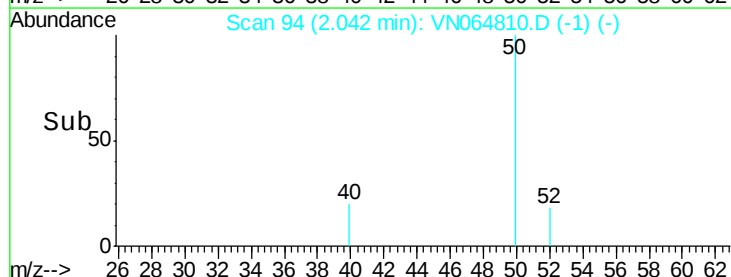
400

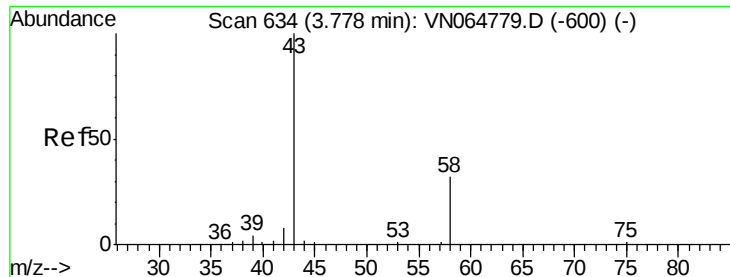
200

0

2.00 2.02 2.04 2.06

Time-->





#16

Acetone

Concen: 5.440 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064810.D

Acq: 24 Nov 2020 15:03

Instrument :

MSVOA\_N

ClientSampled :

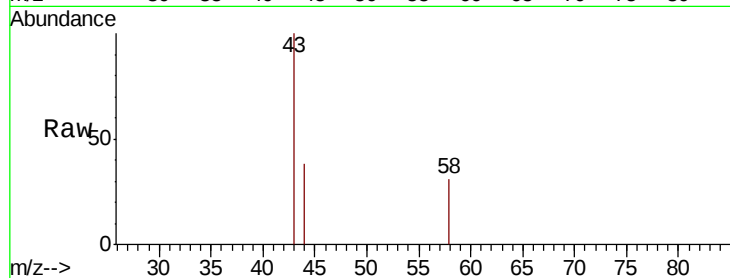
MW-13D

Tot Ion: 43 Resp: 3591

Ion Ratio Lower Upper

43 100

58 31.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

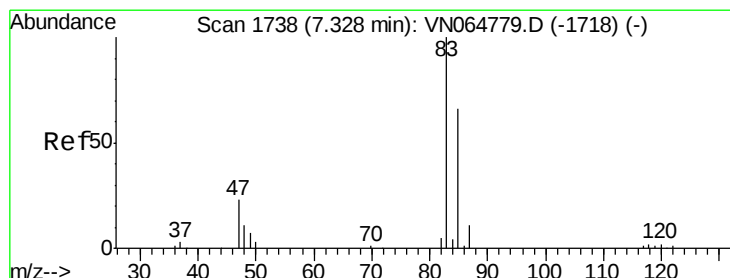
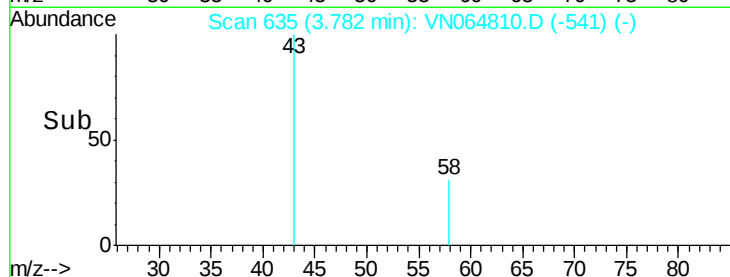
1500

1000

500

0

Time--> 3.70 3.75 3.80 3.85



#30

Chloroform

Concen: 0.521 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VN064810.D

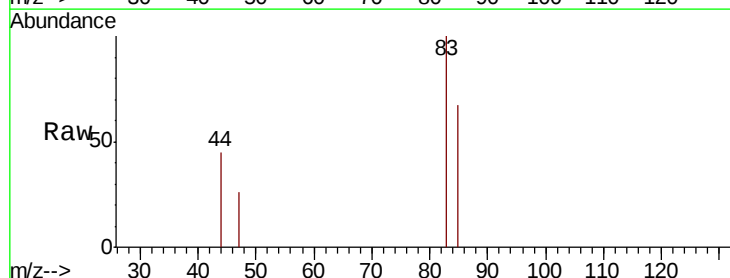
Acq: 24 Nov 2020 15:03

Tgt Ion: 83 Resp: 1777

Ion Ratio Lower Upper

83 100

85 67.3 52.6 78.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

7.33

800

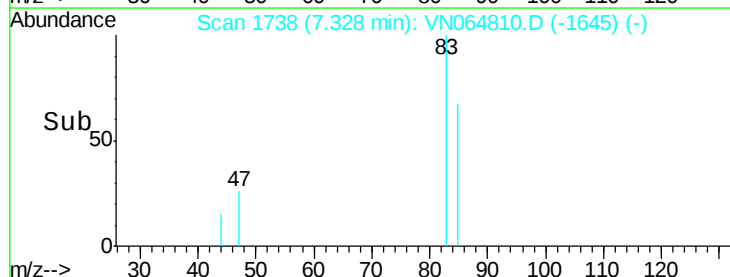
600

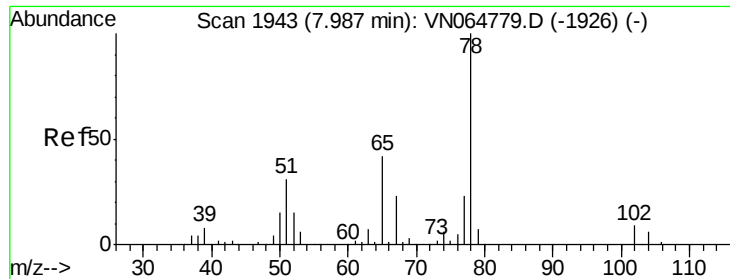
400

200

0

Time--> 7.30 7.35

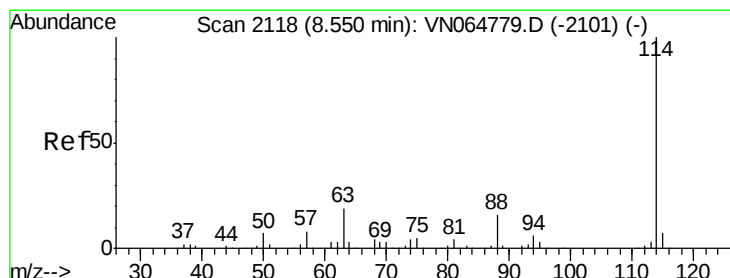
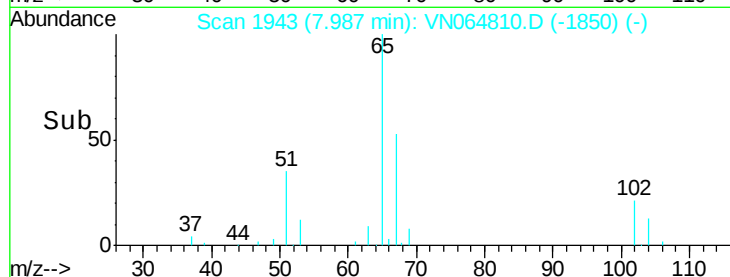
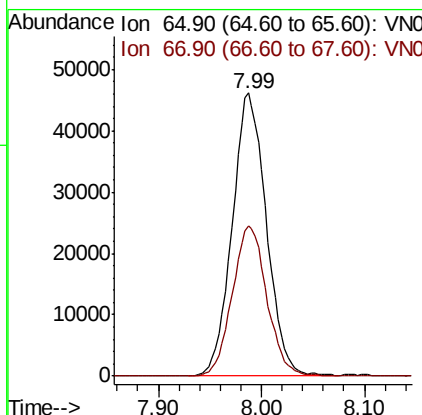
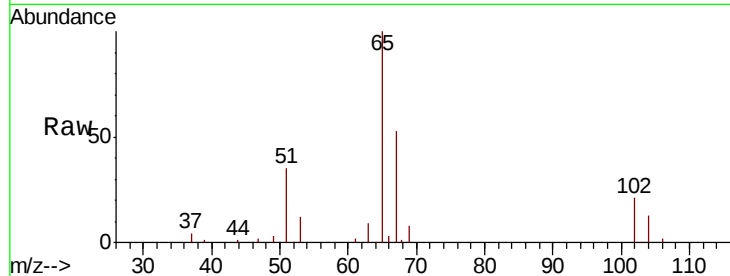




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.013 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. 0.00 min  
 Lab File: VN064810.D  
 Acq: 24 Nov 2020 15:03

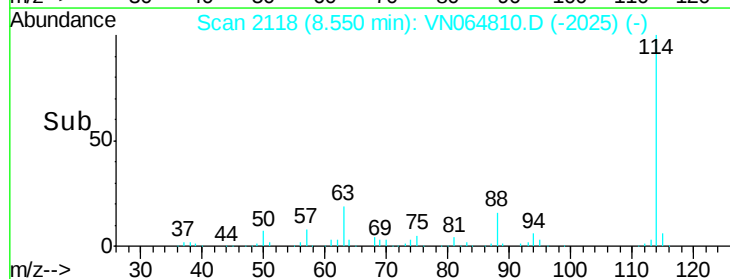
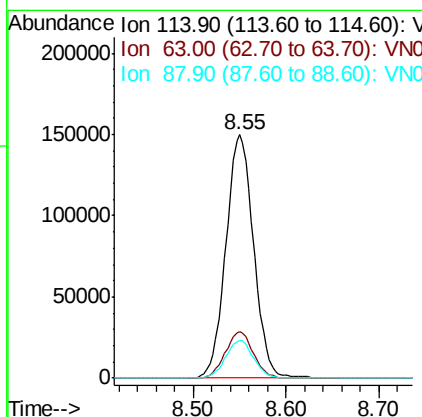
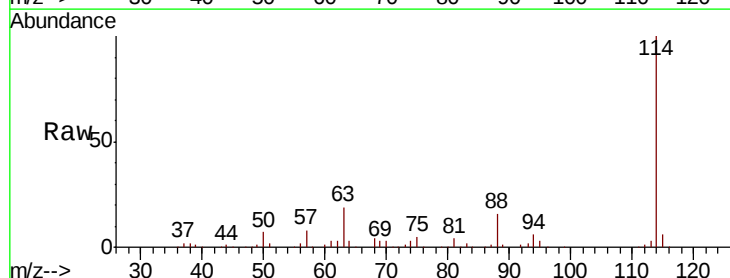
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-13D

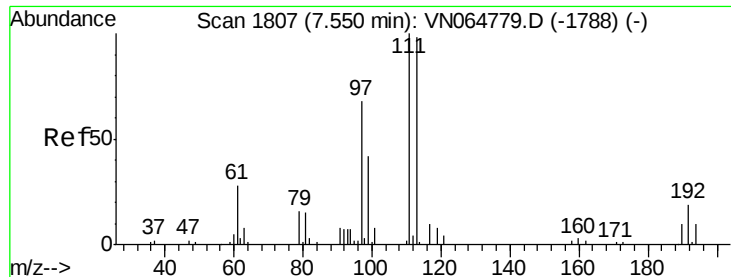
Tot Ion: 65 Resp: 106460  
 Ion Ratio Lower Upper  
 65 100  
 67 53.7 0.0 108.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064810.D  
 Acq: 24 Nov 2020 15:03

Tgt Ion: 114 Resp: 310156  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 38.6  
 88 15.6 0.0 32.6

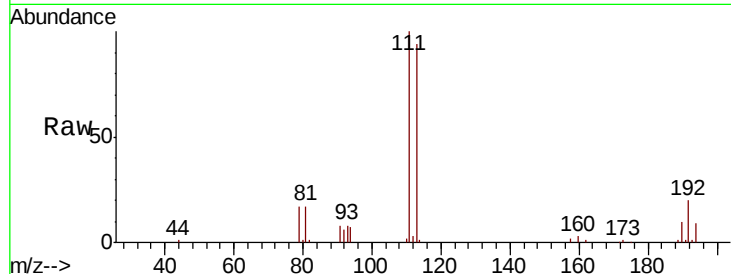




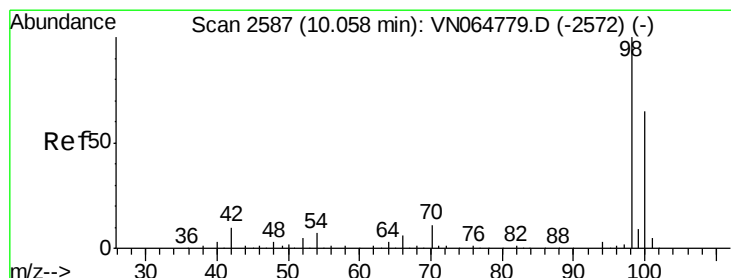
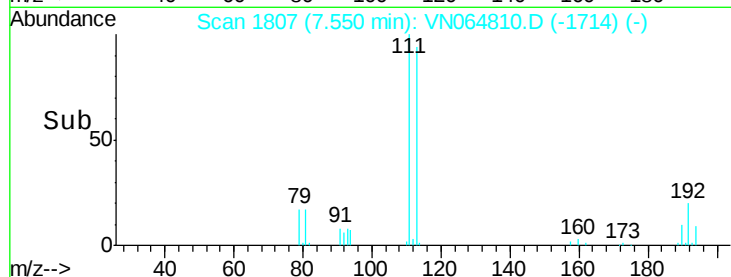
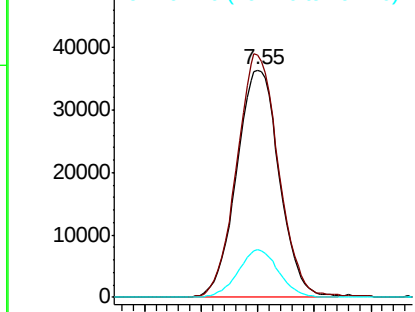
#35  
Dibromofluoromethane  
Concen: 51.456 ug/l  
RT: 7.55 min Scan# 1807  
Delta R.T. 0.00 min  
Lab File: VN064810.D  
Acq: 24 Nov 2020 15:03

Instrument :  
MSVOA\_N  
ClientSampled :  
MW-13D

Tot Ion:113 Resp: 95496  
Ion Ratio Lower Upper  
113 100  
111 105.6 81.6 122.4  
192 19.9 16.2 24.2

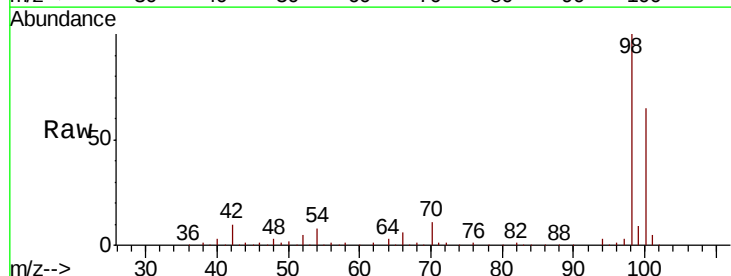


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

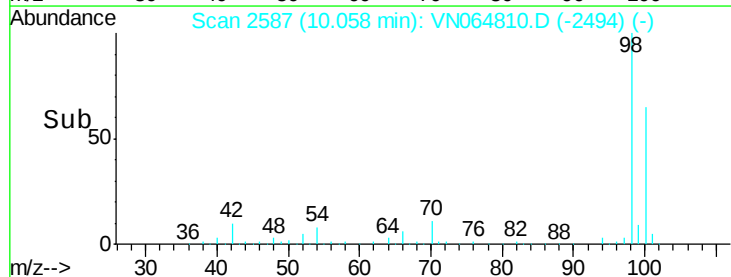
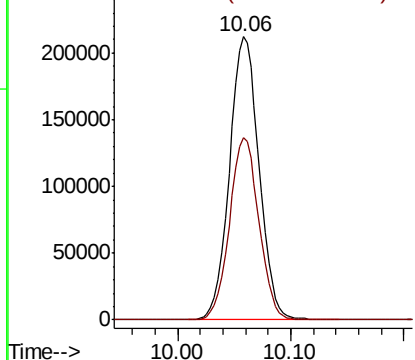


#50  
Toluene-d8  
Concen: 50.836 ug/l  
RT: 10.06 min Scan# 2587  
Delta R.T. 0.00 min  
Lab File: VN064810.D  
Acq: 24 Nov 2020 15:03

Tgt Ion: 98 Resp: 385491  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 57.365 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064810.D

Acq: 24 Nov 2020 15:03

Instrument :

MSVOA\_N

ClientSampleId :

MW-13D

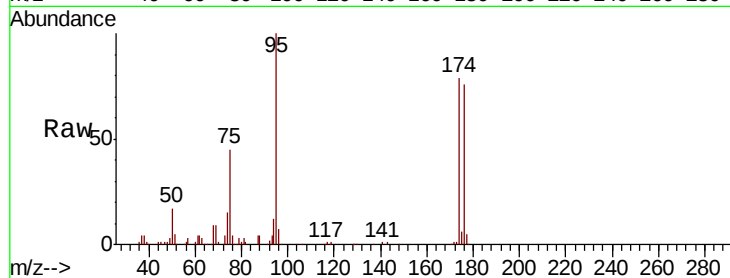
Tot Ion: 95 Resp: 155677

Ion Ratio Lower Upper

95 100

174 79.5 0.0 160.4

176 76.3 0.0 158.4



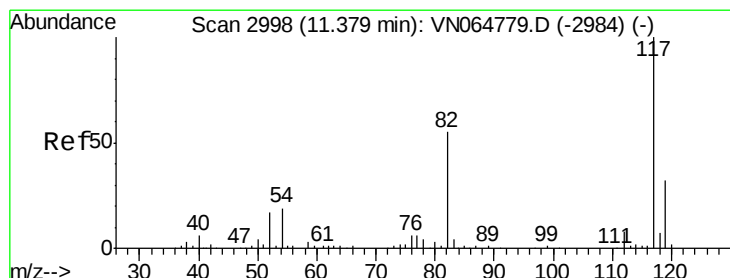
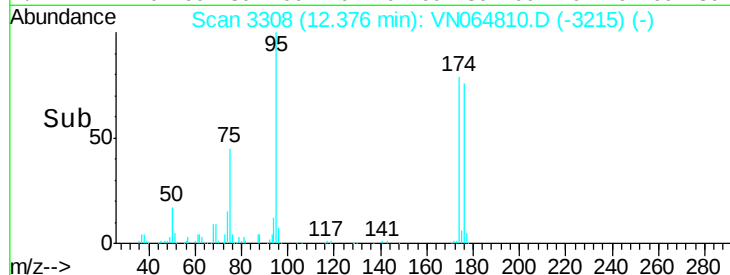
Abundance Ion 94.90 (94.60 to 95.60): VN064810.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN064810.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN064810.D (-3215) (-)

12.38

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064810.D

Acq: 24 Nov 2020 15:03

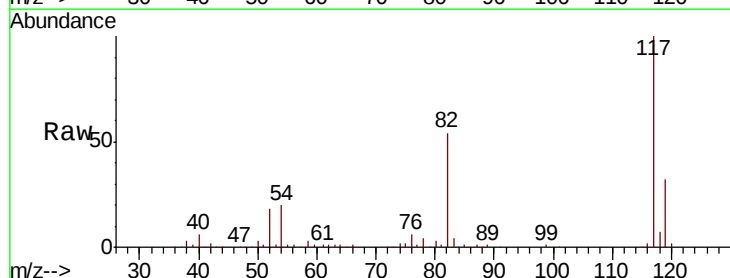
Tgt Ion: 117 Resp: 319819

Ion Ratio Lower Upper

117 100

82 54.0 44.2 66.2

119 32.3 25.8 38.6



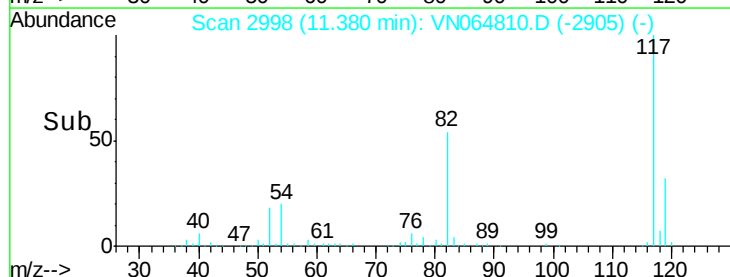
Abundance Ion 116.90 (116.60 to 117.60): VN064810.D (-2905) (-)

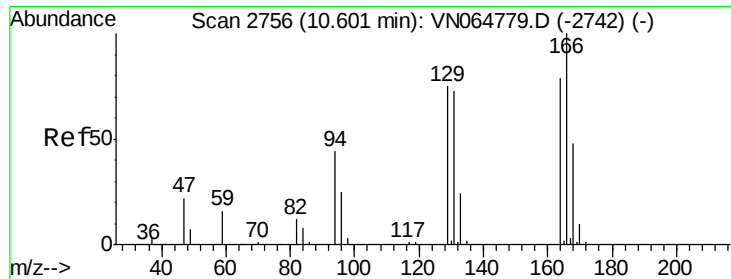
Ion 82.00 (81.70 to 82.70): VN064810.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN064810.D (-2905) (-)

11.38

Time-->





#64

Tetrachloroethene

Concen: 0.657 ug/l

RT: 10.61 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VN064810.D

Acq: 24 Nov 2020 15:03

Instrument :

MSVOA\_N

ClientSampleId :

MW-13D

Tot Ion:164 Resp: 2044

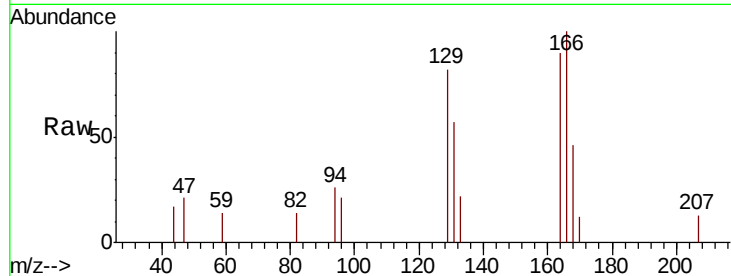
Ion Ratio Lower Upper

164 100

166 111.0 101.4 152.0

129 91.4 76.1 114.1

131 63.5 74.2 111.2#



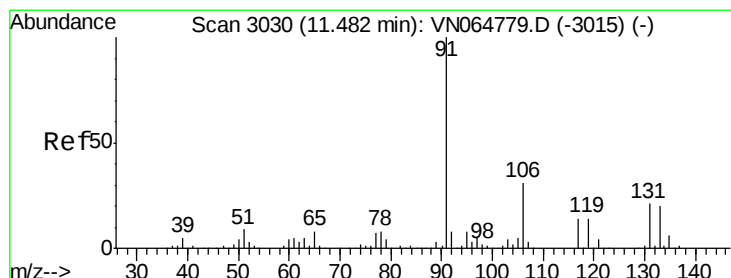
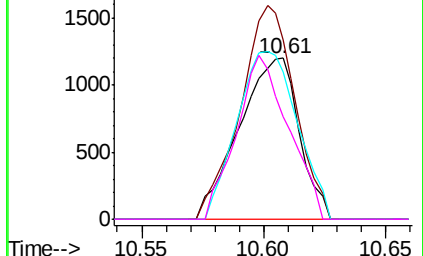
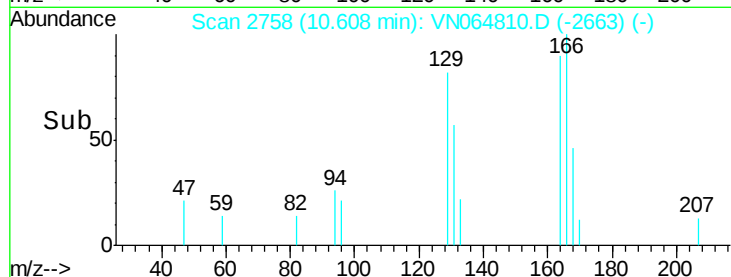
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



#67

Ethyl Benzene

Concen: 0.379 ug/l

RT: 11.48 min Scan# 3030

Delta R.T. 0.00 min

Lab File: VN064810.D

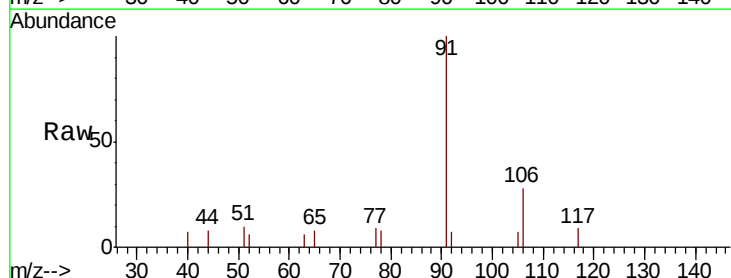
Acq: 24 Nov 2020 15:03

Tgt Ion: 91 Resp: 4344

Ion Ratio Lower Upper

91 100

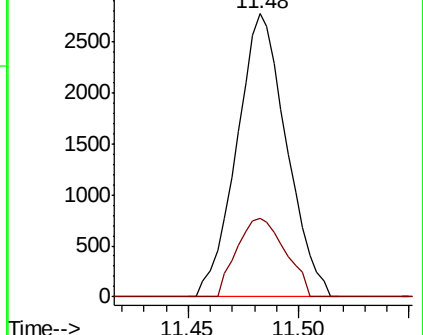
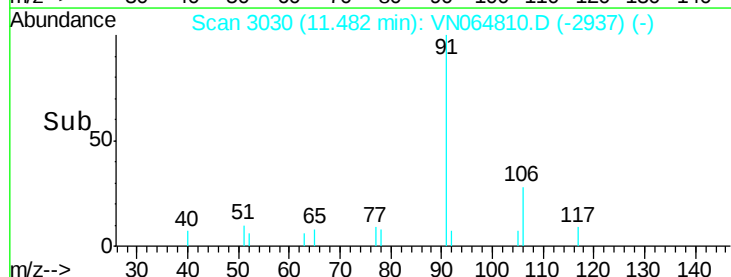
106 28.0 25.2 37.8

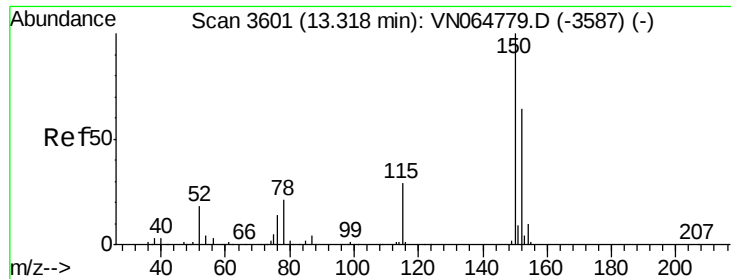


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064810.D

Acq: 24 Nov 2020 15:03

Instrument :

MSVOA\_N

ClientSampleId :

MW-13D

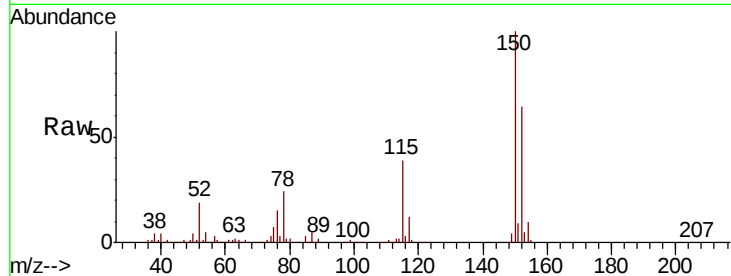
Tot Ion:152 Resp: 149048

Ion Ratio Lower Upper

152 100

115 60.1 29.7 89.1

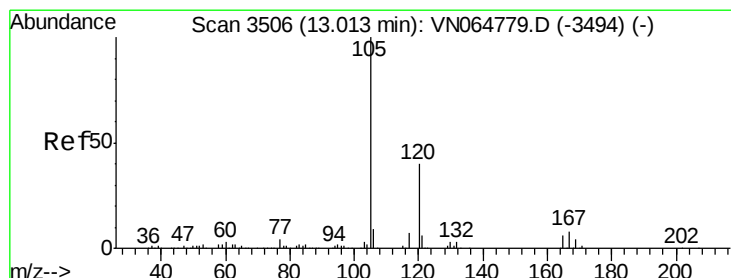
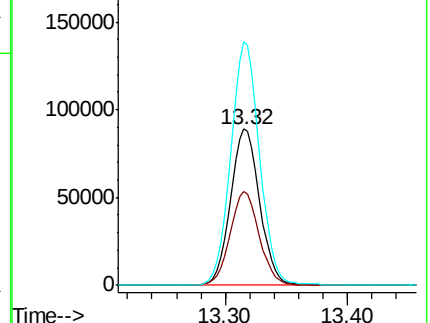
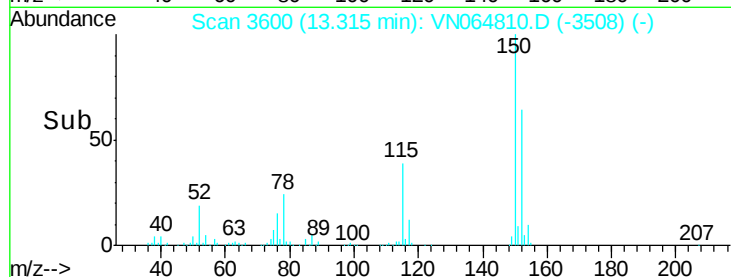
150 154.3 0.0 350.6



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



#84

1,2,4-Trimethylbenzene

Concen: 0.454 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN064810.D

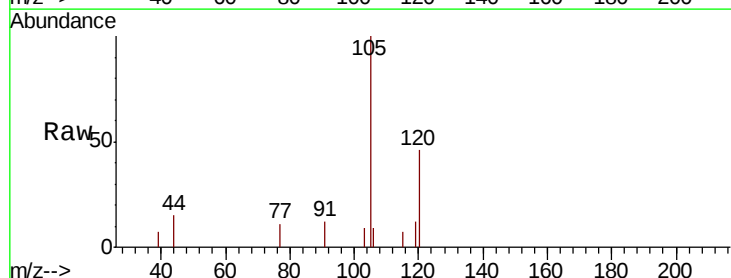
Acq: 24 Nov 2020 15:03

Tgt Ion:105 Resp: 3957

Ion Ratio Lower Upper

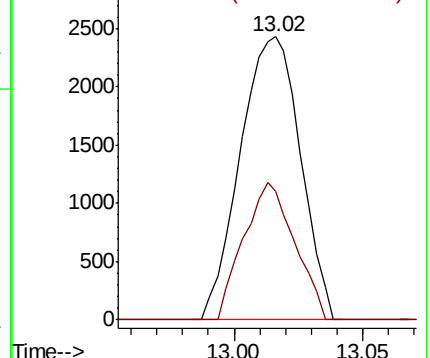
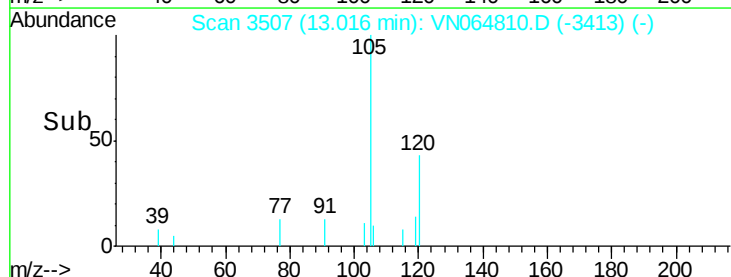
105 100

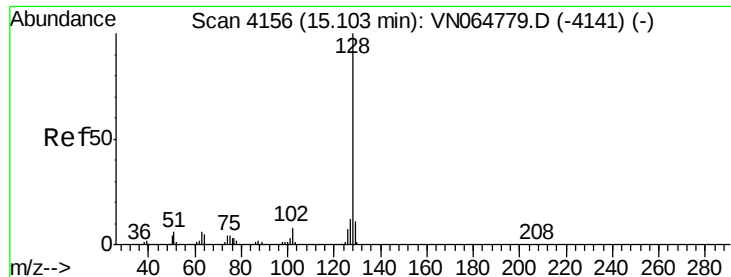
120 41.3 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 4.420 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064810.D

Acq: 24 Nov 2020 15:03

Instrument :

MSVOA\_N

ClientSampleId :

MW-13D

Tot Ion:128 Resp: 39942

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 10.4 8.7 13.1

